

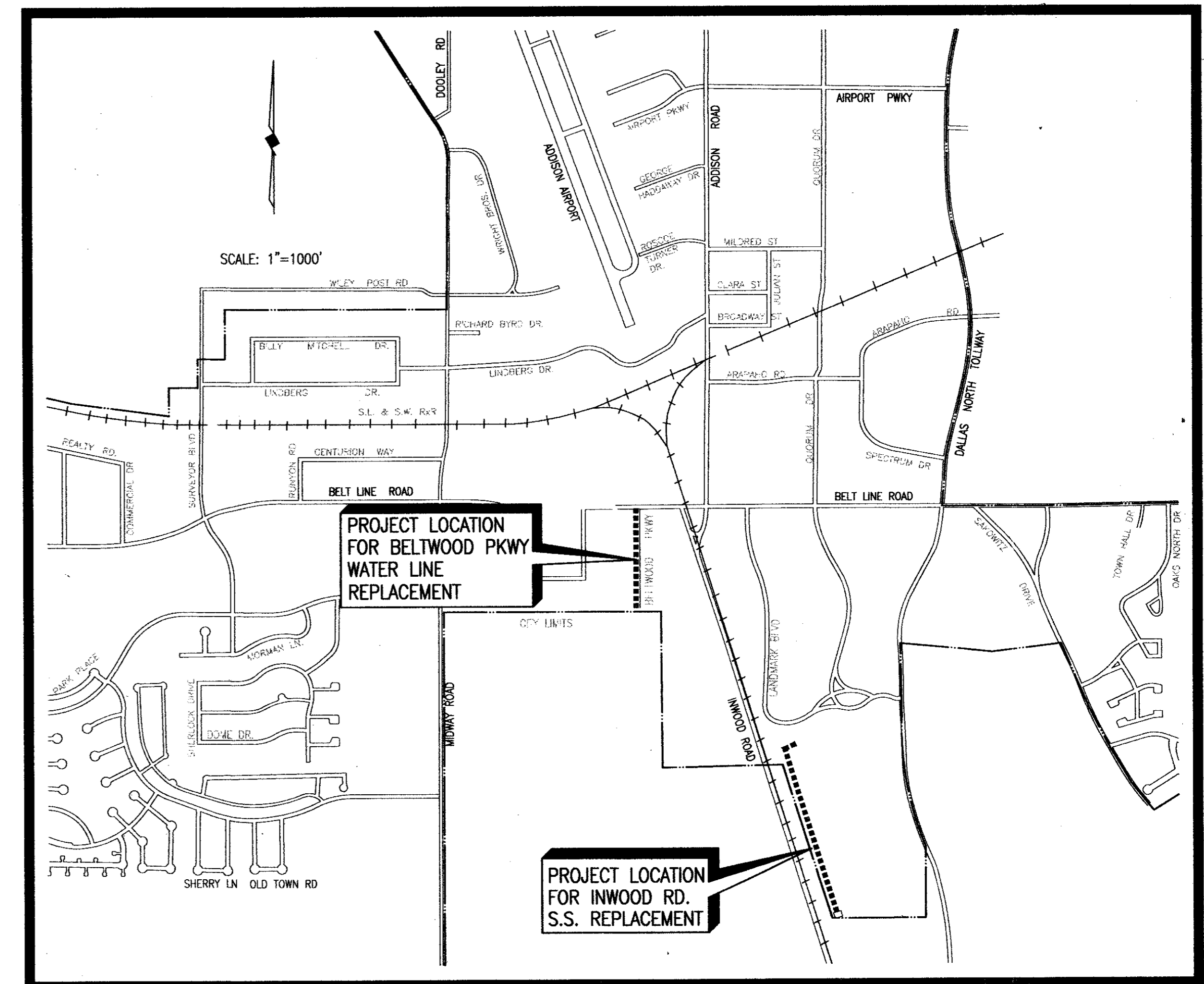
# TOWN OF ADDISON, TEXAS

CONSTRUCTION PLANS FOR

## BELTWOOD PARKWAY WATER LINE REPLACEMENT AND

## INWOOD ROAD

## SANITARY SEWER REPLACEMENT



B13-10  
Beltwood Water Line  
Inwood Sewer Line  
Replacement - As Built

### SHEET INDEX

#### SHEET DESCRIPTION

#### SHEET NO.

|   |                           |
|---|---------------------------|
| BELTWOOD PKWY WATER LINE REPLACEMENT-PLAN/PROFILE 0+00 TO 6+00        | 1                         |
| BELTWOOD PKWY WATER LINE REPLACEMENT-PLAN/PROFILE 6+00 TO 10+46       | 2                         |
| BELTWOOD PKWY WATER LINE REPLACEMENT-PLANTING                         | 3                         |
| BELTWOOD PKWY WATER LINE REPLACEMENT-IRRIGATION                       | 4                         |
| BELTWOOD PKWY WATER LINE REPLACEMENT-WATER VALVE REPLACEMENT LOCATION | 5 <i>March Ln.</i>        |
| BELTWOOD PKWY WATER LINE REPLACEMENT-WATER VALVE REPLACEMENT LOCATION | 6 <i>Greenhill School</i> |
| BELTWOOD PKWY WATER LINE REPLACEMENT-WATER VALVE INSTALLATION         | 7 <i>Inwood</i>           |
| INWOOD RD. S.S. REPLACEMENT-PLAN/PROFILE 0+00 TO 6+00                 | 8                         |
| INWOOD RD. S.S. REPLACEMENT-PLAN/PROFILE 6+00 TO 12+00                | 9                         |
| INWOOD RD. S.S. REPLACEMENT-PLAN/PROFILE 12+00 TO 18+31.62            | 10                        |
| DETAIL SHEET  | 11                        |
| DETAIL & GENERAL NOTES SHEET  | 12                        |

#### CITY COUNCIL

RICHARD N. BECKERT, MAYOR  
ANN B. SUDDUTH, MAYOR PRO TEM  
GREGORY ROACH      ROBERT L. DOEPFNER  
RIK CREWS          MARY J. DOLAN  
SUSAN M. HALPERN

#### CITY MANAGER

RON WHITEHEAD

#### DIRECTOR OF PUBLIC WORKS

JOHN BAUMGARTNER, P.E.

#### PUBLIC WORKS ENGINEER

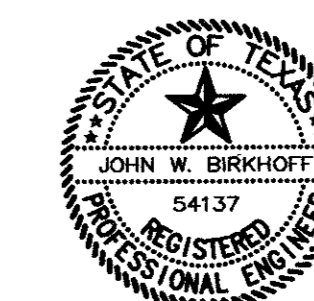
DAVID C. NIGHSWONGER, P.E.

#### CITY SECRETARY

CARMEN MORAN

SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

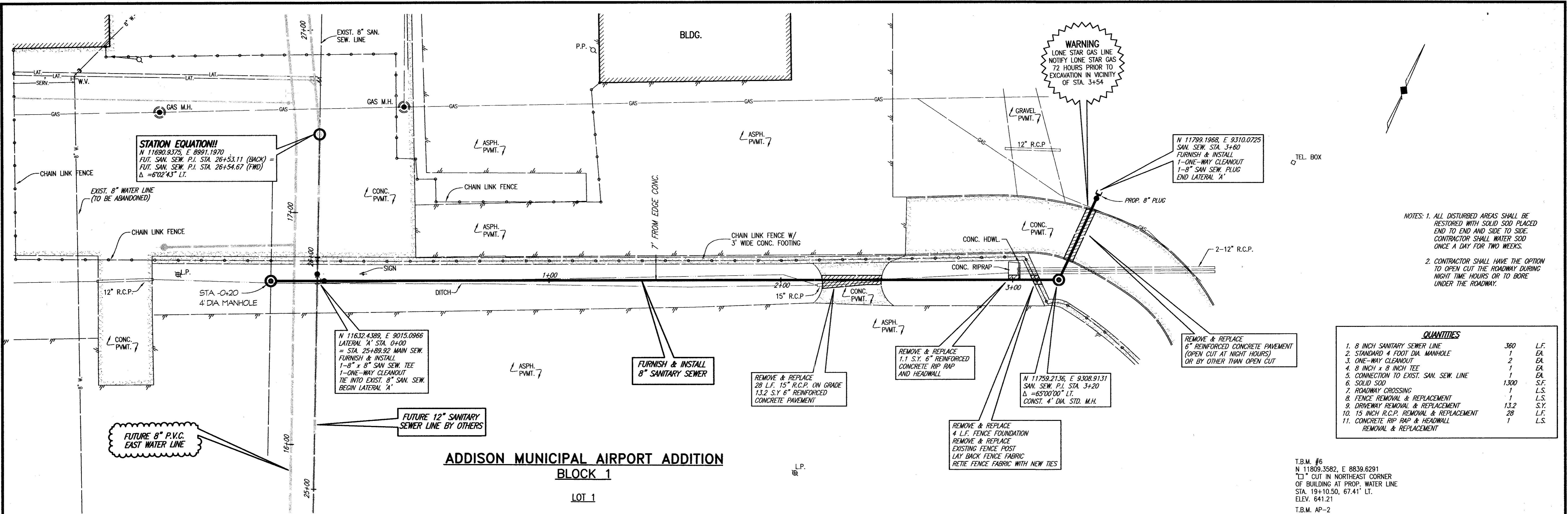
REVISED TO CONFORM  
TO CONSTRUCTION RECORDS  
BY *JWB* DATE *8/26/97*



THESE DOCUMENTS ARE FOR  
BIDDING, CONSTRUCTION,  
AND PERMIT PURPOSES.  
*John W. Bulliff*  
DATE: *11/20/96*

NOVEMBER, 1996

B13-10



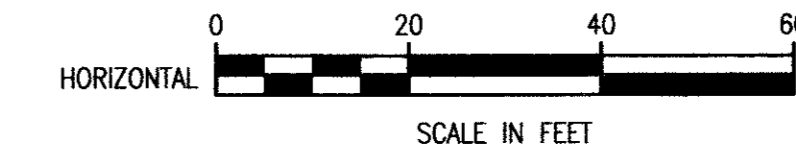
NOTES: 1. ALL DISTURBED AREAS SHALL BE RESTORED WITH SOLID SOD PLACED END TO END AND SIDE TO SIDE. CONTRACTOR SHALL WATER SOD ONCE A DAY FOR TWO WEEKS.  
 2. CONTRACTOR SHALL HAVE THE OPTION TO OPEN CUT THE ROADWAY DURING NIGHT TIME HOURS OR TO BORE UNDER THE ROADWAY.

| QUANTITIES  |      |      |
|---|------|------|
| 1. 8 INCH SANITARY SEWER LINE                         | 360  | L.F. |
| 2. STANDARD 4 FOOT DIA. MANHOLE                       | 1    | EA.  |
| 3. ONE-WAY CLEANOUT                                   | 2    | EA.  |
| 4. 8 INCH x 8 INCH TEE                                | 1    | EA.  |
| 5. CONNECTION TO EXIST. SAN. SEW. LINE                | 1    | S.F. |
| 6. SOLID SOD  | 1300 | L.S. |
| 7. ROADWAY CROSSING                                   | 1    | L.S. |
| 8. FENCE REMOVAL & REPLACEMENT                        | 13.2 | S.Y. |
| 9. DRIVEWAY REMOVAL & REPLACEMENT                     | 28   | L.F. |
| 10. 15 INCH R.C.P. REMOVAL & REPLACEMENT              | 1    | L.S. |
| 11. CONCRETE RIP RAP & HEADWALL REMOVAL & REPLACEMENT | 1    | L.S. |

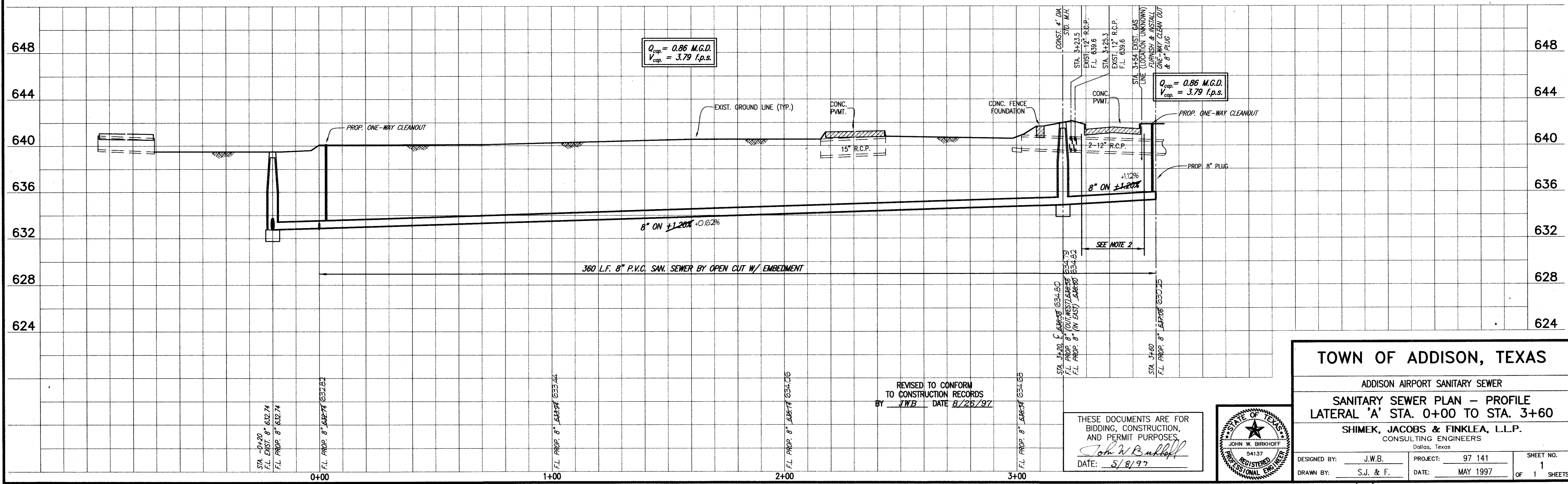
**ADDISON MUNICIPAL AIRPORT ADDITION**  
**BLOCK 1**  
**LOT 1**

T.B.M. #6  
 N 11809.3582, E 8839.6291  
 "C" CUT IN NORTHEAST CORNER  
 OF BUILDING AT PROP. WATER LINE  
 STA. 19+10.50, 67.41' LT.  
 ELEV. 641.21  
 T.B.M. AP-2  
 N 11901.7151, E 8905.0072  
 NORTH RIM OF EXISTING S.S.M.H.  
 AT PROP. SAN. SEWER  
 STA. 28+81.13, 23.91' RT.  
 ELEV. 640.53

HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

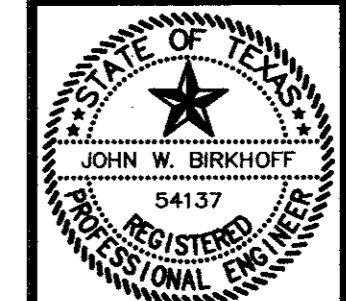


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REVISED TO CONFORM TO CONSTRUCTION RECORDS BY JWB DATE 8/26/97

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
 John W. Bullock  
 DATE: 5/8/97



**TOWN OF ADDISON, TEXAS**

ADDISON AIRPORT SANITARY SEWER

**SANITARY SEWER PLAN - PROFILE**  
**LATERAL 'A' STA. 0+00 TO STA. 3+60**

SHIMEK, JACOBS & FINKLEA, L.L.P.  
 CONSULTING ENGINEERS  
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 97 141 SHEET NO. 1  
 DRAWN BY: S.J. & F. DATE: MAY 1997 OF 1 SHEETS

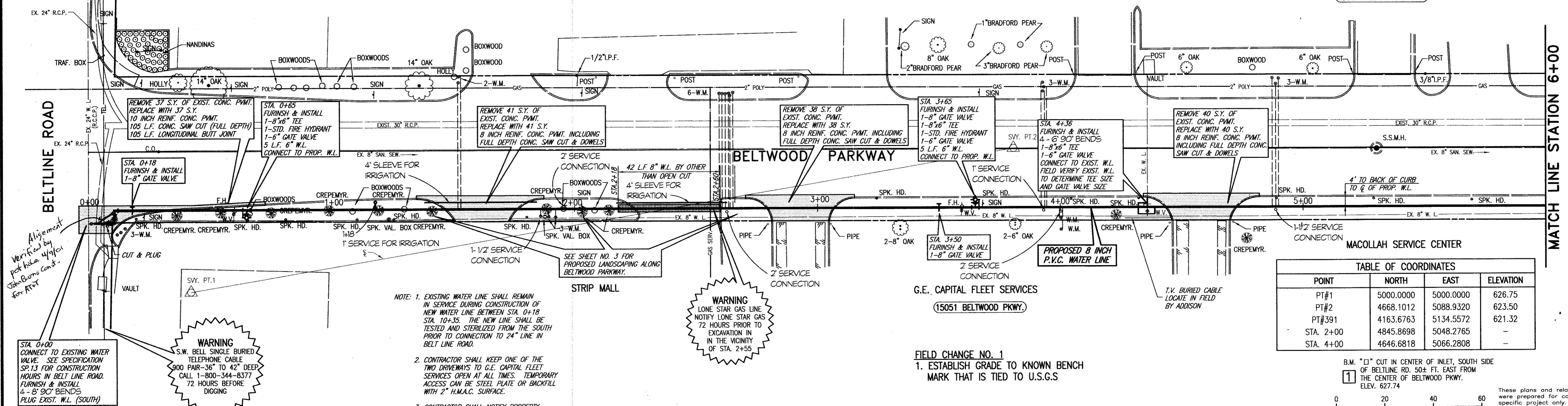
**LEGEND**

- REINFORCED CONCRETE P.V.M.T. REMOVAL AND REPLACEMENT
- WATER LINE CONSTRUCTION BY OTHER THAN OPEN CUT
- STRIP MALL

**SHORT SERVICES**  
 STA. 0+12, STA. 0+13, STA. 0+15, STA. 1+86, STA. 1+90, STA. 1+92, STA. 4+00 & STA. 4+01  
 FURNISH & INSTALL  
 2 INCH OUTLET  
 10 L.F. COPPER WATER LINE BY OPEN CUT  
 CONNECT TO EXISTING WATER METER,  
 INCLUDING ALL FITTINGS & NEW METER BOX

**LONG SERVICES**  
 STA. 1+53, STA. 1+54, STA. 2+60, STA. 2+61, STA. 2+62, STA. 2+63, STA. 2+64, STA. 2+65, STA. 3+93.5, STA. 3+94, STA. 3+94.5, STA. 4+88, STA. 4+89 & STA. 4+91  
 FURNISH & INSTALL  
 2 INCH OUTLET  
 CONNECT TO EXISTING SERVICE LINES  
 NO NEW SERVICE LINES REQUIRED UNDER PAVEMENT.

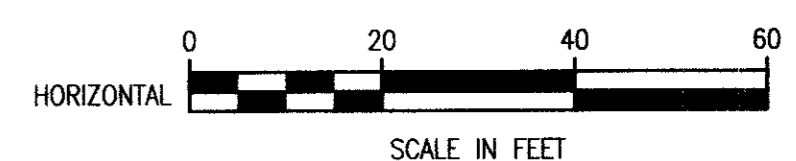
INSTRUMENT TECH CORP.  
 (15060 BELTWOOD PKWY.)



**TABLE OF COORDINATES**

| POINT     | NORTH     | EAST      | ELEVATION |
|-----------|-----------|-----------|-----------|
| PT#1      | 5000.0000 | 5000.0000 | 626.75    |
| PT#2      | 4668.1012 | 5088.9320 | 623.50    |
| PT#391    | 4163.6763 | 5134.5572 | 621.32    |
| STA. 2+00 | 4845.8698 | 5048.2765 | -         |
| STA. 4+00 | 4646.6818 | 5066.2808 | -         |

B.M. "D" CUT IN CENTER OF INLET, SOUTH SIDE OF BELTLINE RD. 50± FT. EAST FROM THE CENTER OF BELTWOOD PKWY. ELEV. 627.74

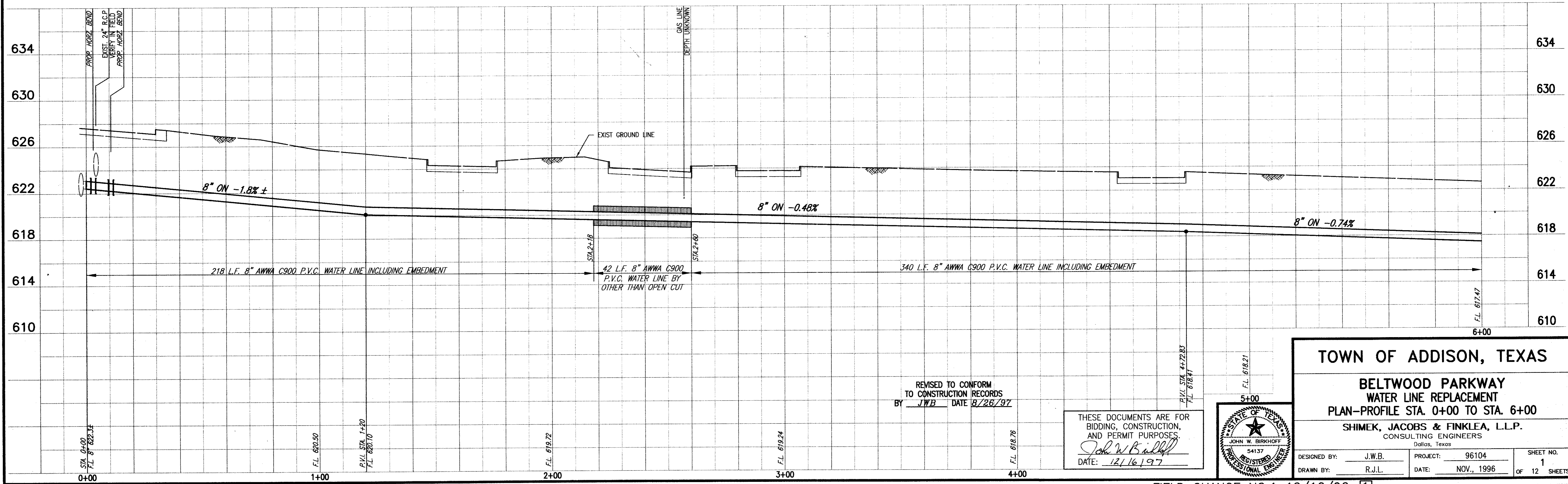


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- NOTE:**
- EXISTING WATER LINE SHALL REMAIN IN SERVICE DURING CONSTRUCTION OF NEW WATER LINE BETWEEN STA. 0+18 STA. 10+35. THE NEW LINE SHALL BE TESTED AND STERILIZED FROM THE SOUTH PRIOR TO CONNECTION TO 24" LINE IN BELT LINE ROAD.
  - CONTRACTOR SHALL KEEP ONE OF THE TWO DRIVEWAYS TO G.E. CAPITAL FLEET SERVICES OPEN AT ALL TIMES. TEMPORARY ACCESS CAN BE STEEL PLATE OR BACKFILL WITH 2" H.M.A.C. SURFACE.
  - CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, TOWN OF ADDISON AND FIRE THE DEPT. PRIOR TO TRANSFER OF WATER SERVICES TO PROPOSED WATER MAIN.

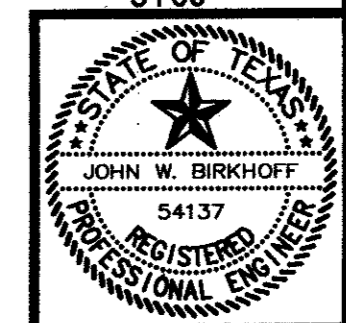
**WARNING**  
 LONE STAR GAS LINE  
 NOTIFY LONE STAR GAS  
 72 HOURS PRIOR TO  
 EXCAVATION IN  
 THE VICINITY  
 OF STA. 2+55

**FIELD CHANGE NO. 1**  
 1. ESTABLISH GRADE TO KNOWN BENCH MARK THAT IS TIED TO U.S.G.S



REVISED TO CONFORM TO CONSTRUCTION RECORDS BY *JWB* DATE *8/26/97*

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Birkhoff*  
 DATE: *12/16/97*

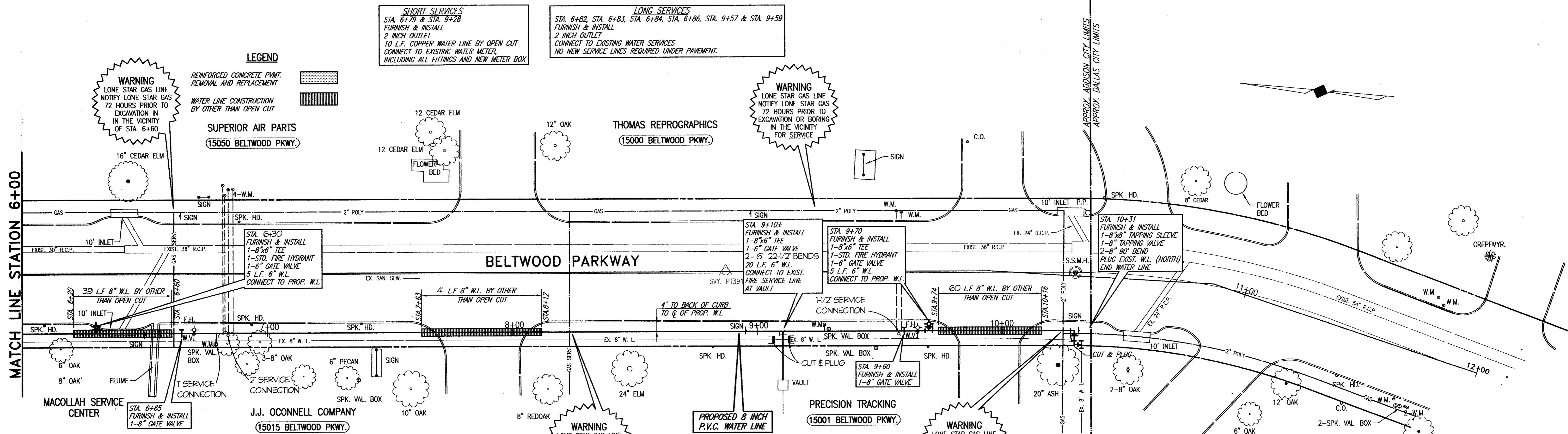


**TOWN OF ADDISON, TEXAS**

**BELTWOOD PARKWAY WATER LINE REPLACEMENT**  
 PLAN-PROFILE STA. 0+00 TO STA. 6+00

**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
 CONSULTING ENGINEERS  
 Dallas, Texas

|                     |                  |              |
|---------------------|------------------|--------------|
| DESIGNED BY: J.W.B. | PROJECT: 96104   | SHEET NO. 1  |
| DRAWN BY: R.J.L.    | DATE: NOV., 1996 | OF 12 SHEETS |



**SHORT SERVICES**  
 STA. 6+70 & STA. 9+28  
 FURNISH & INSTALL  
 2 INCH OUTLET  
 10 L.F. COPPER WATER LINE BY OPEN CUT  
 CONNECT TO EXISTING WATER METER,  
 INCLUDING ALL FITTINGS AND NEW METER BOX

**LONG SERVICES**  
 STA. 6+82, STA. 6+83, STA. 6+84, STA. 6+86, STA. 9+57 & STA. 9+59  
 FURNISH & INSTALL  
 2 INCH OUTLET  
 CONNECT TO EXISTING WATER SERVICES  
 NO NEW SERVICE LINES REQUIRED UNDER PAVEMENT.

**LEGEND**  
 REINFORCED CONCRETE PAVT.  
 REMOVAL AND REPLACEMENT  
 WATER LINE CONSTRUCTION  
 BY OTHER THAN OPEN CUT

**WARNING**  
 LONE STAR GAS LINE  
 NOTIFY LONE STAR GAS  
 72 HOURS PRIOR TO  
 EXCAVATION IN  
 THE VICINITY  
 OF STA. 6+60

**WARNING**  
 LONE STAR GAS LINE  
 NOTIFY LONE STAR GAS  
 72 HOURS PRIOR TO  
 EXCAVATION OR BORING  
 IN THE VICINITY  
 FOR SERVICE

**WARNING**  
 LONE STAR GAS LINE  
 NOTIFY LONE STAR GAS  
 72 HOURS PRIOR TO  
 EXCAVATION IN  
 THE VICINITY  
 OF STA. 8+25

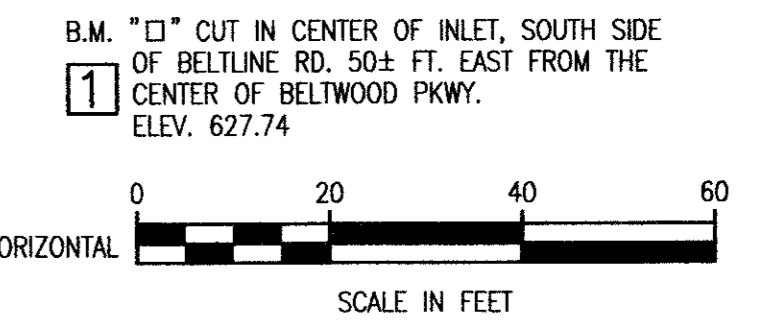
**WARNING**  
 LONE STAR GAS LINE  
 NOTIFY LONE STAR GAS  
 72 HOURS PRIOR TO  
 EXCAVATION IN  
 THE VICINITY  
 OF STA. 10+25

- NOTE:**
- EXISTING WATER LINE SHALL REMAIN IN SERVICE DURING CONSTRUCTION OF NEW WATER LINE BETWEEN STA. 0+18 STA. 10+35. THE NEW LINE SHALL BE TESTED AND STERILIZED FROM THE SOUTH PRIOR TO CONNECTION TO 24" LINE IN BELT LINE ROAD.
  - CONTRACTOR SHALL KEEP ONE OF THE TWO DRIVEWAYS TO G.E. CAPITAL FLEET SERVICES OPEN AT ALL TIMES. TEMPORARY ACCESS CAN BE STEEL PLATE OR BACKFILL WITH 2" H.M.A.C. SURFACE.
  - CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, TOWN OF ADDISON AND FIRE THE DEPT. PRIOR TO TRANSFER OF WATER SERVICES TO PROPOSED WATER MAIN.
  - CONTRACTOR SHALL FURNISH & INSTALL BENDS FOR 8 INCH WATER LINE GRADE CHANGE BETWEEN STATIONS 6+10 AND 6+70. FOUR BENDS REQUIRED.

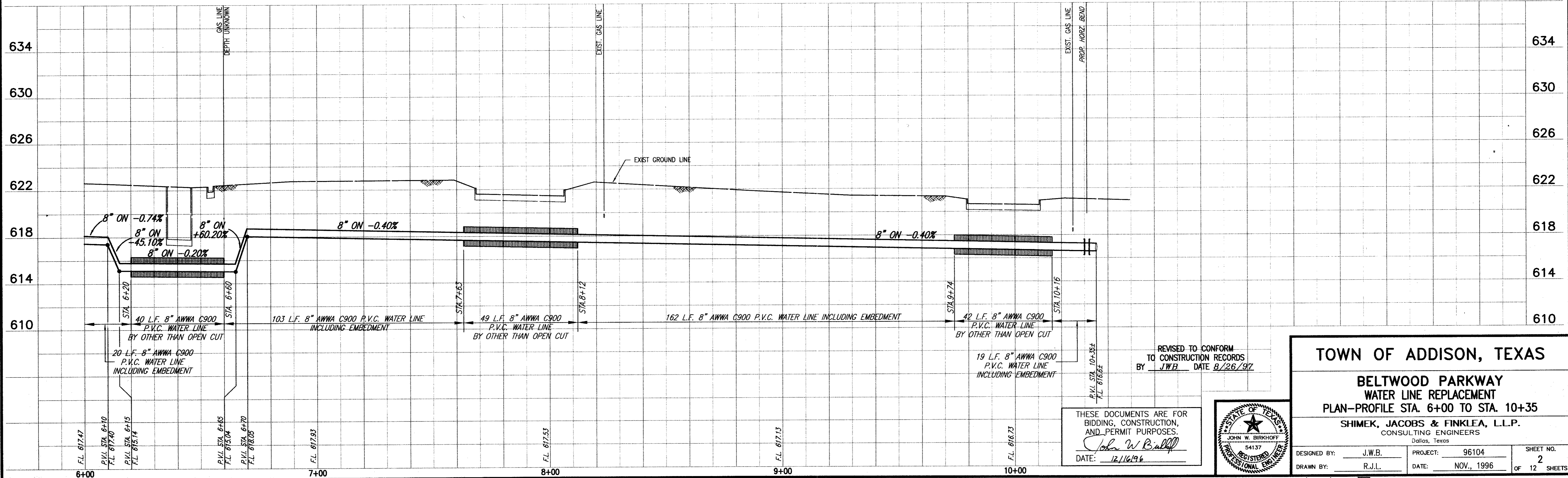
**TABLE OF COORDINATES**

| POINT      | NORTH     | EAST      | ELEVATION |
|------------|-----------|-----------|-----------|
| PT#1       | 5000.0000 | 5000.0000 | 626.75    |
| PT#2       | 4668.1012 | 5088.9320 | 623.50    |
| PT#391     | 4163.6763 | 5134.5572 | 621.32    |
| STA. 6+00  | 4447.4520 | 5084.2888 | -         |
| STA. 8+00  | 4248.2640 | 5102.2931 | -         |
| STA. 10+00 | 4049.0761 | 5120.2974 | -         |

**FIELD CHANGE NO. 1**  
 1. ESTABLISH GRADE TO KNOWN BENCH MARK THAT IS TIED TO U.S.G.S

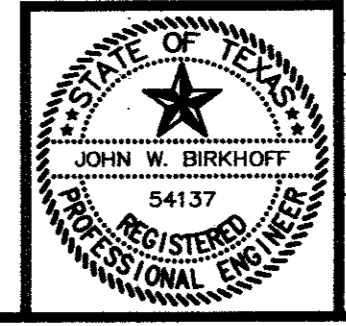


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REVISED TO CONFORM TO CONSTRUCTION RECORDS BY JWB DATE 8/28/97

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Burkoff*  
 DATE: 12/16/96



**TOWN OF ADDISON, TEXAS**

**BELTWOOD PARKWAY WATER LINE REPLACEMENT**  
 PLAN-PROFILE STA. 6+00 TO STA. 10+35

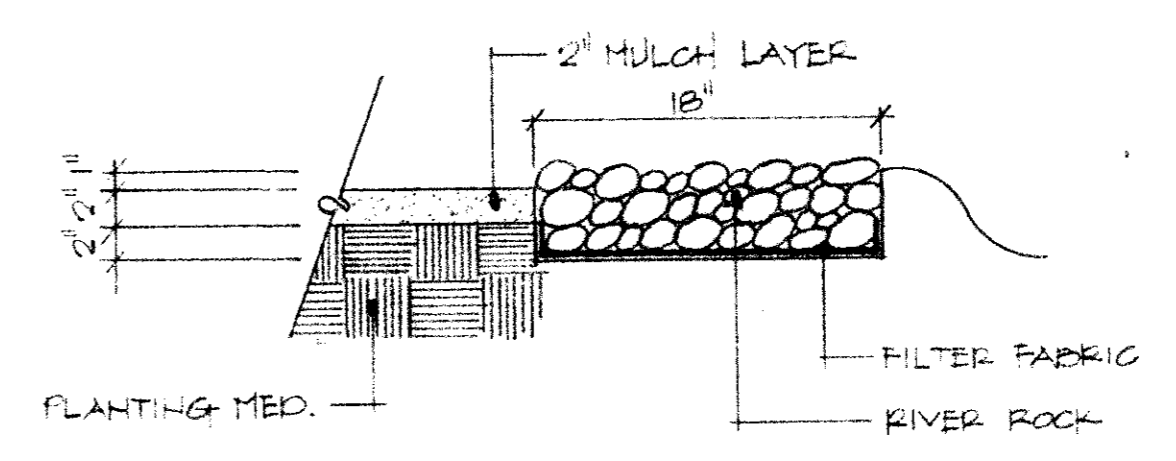
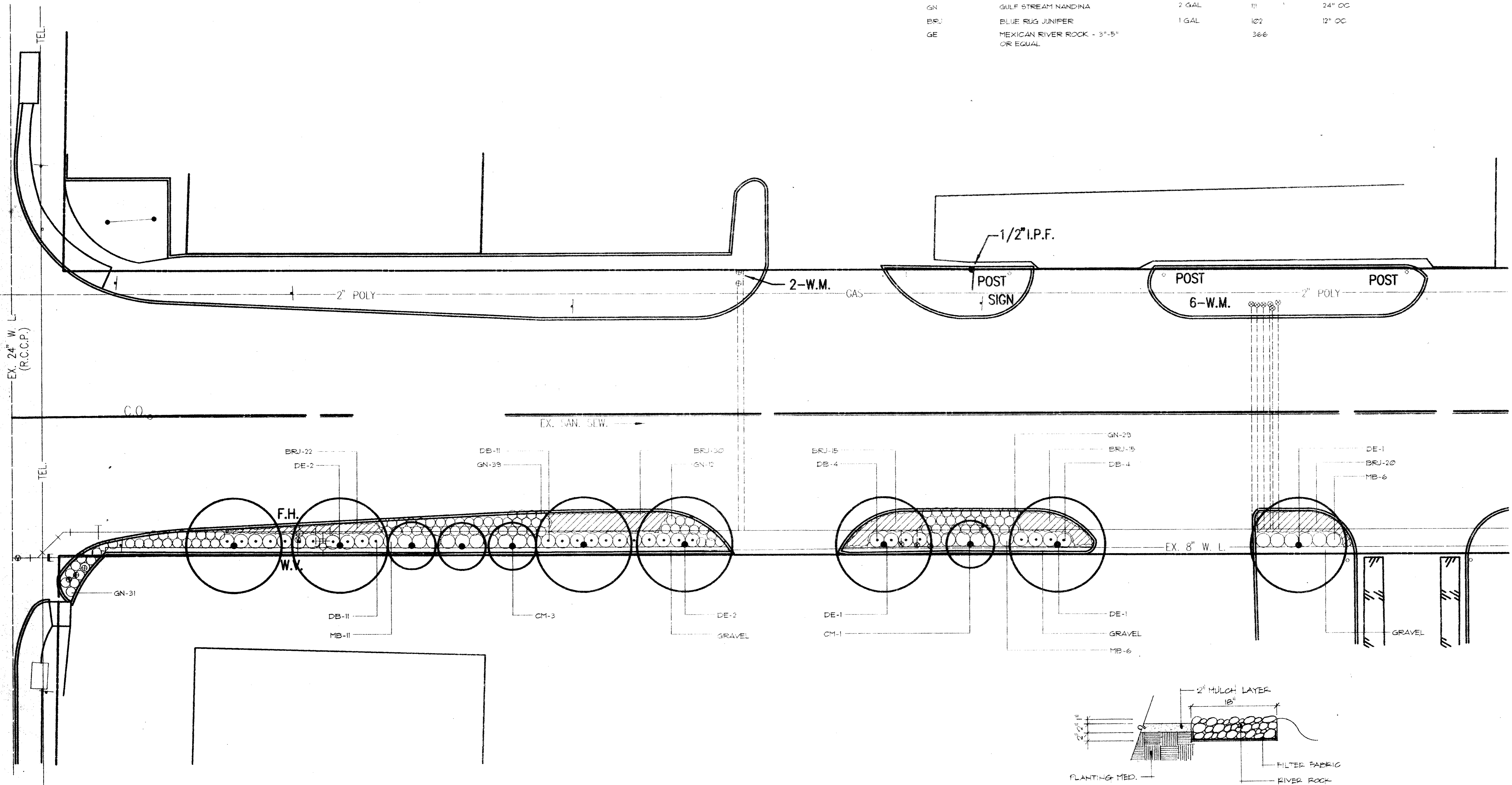
**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
 CONSULTING ENGINEERS  
 Dallas, Texas

|                     |                  |              |
|---------------------|------------------|--------------|
| DESIGNED BY: J.W.B. | PROJECT: 96104   | SHEET NO. 2  |
| DRAWN BY: R.J.L.    | DATE: NOV., 1996 | OF 12 SHEETS |

PROJECT NAME: BELTWOOD  
 PROJECT NUMBER: ADD-601  
 REVISIONS: 11/01/96

PLANT LIST

| PLAN NAME | PLANT NAME                          | SIZE   | QUANTITY | SPACING  |
|-----------|-------------------------------------|--------|----------|----------|
| DE        | DRAKE ELM                           | 3" GAL | 1        |          |
| CM        | CREPEMYRTLE                         | 6'-8"  | 4        | 10' MIN  |
| MB        | MENTOR BARBERRY                     | 5 GAL  | 23       | 36" O.C. |
| DB        | DWARF BURFORD HOLLY                 | 5 GAL  | 30       | 36" O.C. |
| GN        | GULF STREAM NANDINA                 | 2 GAL  | 11       | 24" O.C. |
| BRJ       | BLUE RUG JUNIFER                    | 1 GAL  | 102      | 12" O.C. |
| GE        | MEXICAN RIVER ROCK - 3"-5" OR EQUAL |        | 366      |          |



ROCK EDGING DETAIL 1'-1'-0"

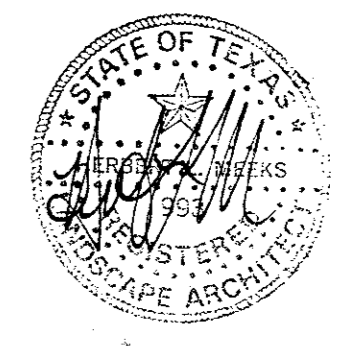
BELTWOOD PARKWAY  
 ADDISON, TEXAS



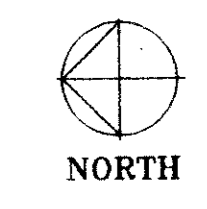
PROJECT NAME: BELTWOOD PARKWAY  
 ADDISON, TEXAS

**M • D • G**  
 MEEKS DESIGN GROUP  
 1100 CENTENNIAL BLVD. #120  
 RICHARDSON, TEXAS 75081  
 (972) 690-7474  
 FAX (972) 690-7878

TITLE: PLANTING  
 DATE: 09/09/96  
 SCALE: 1" = 10'-0"  
 SHEET: L2.01

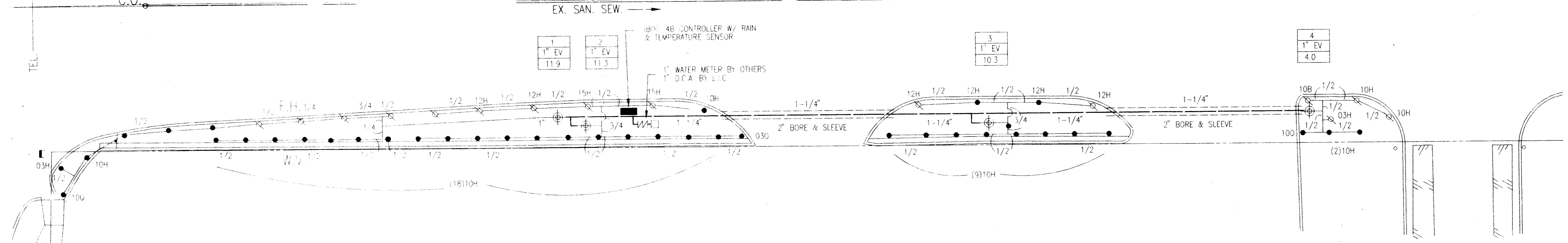
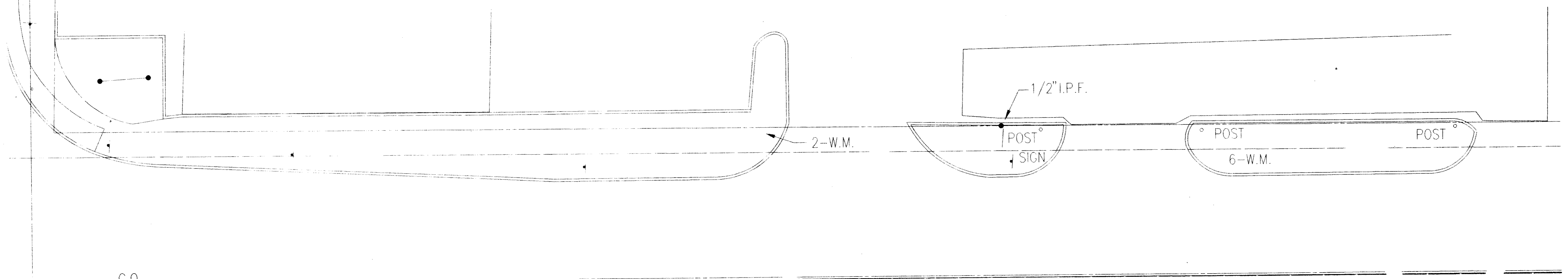
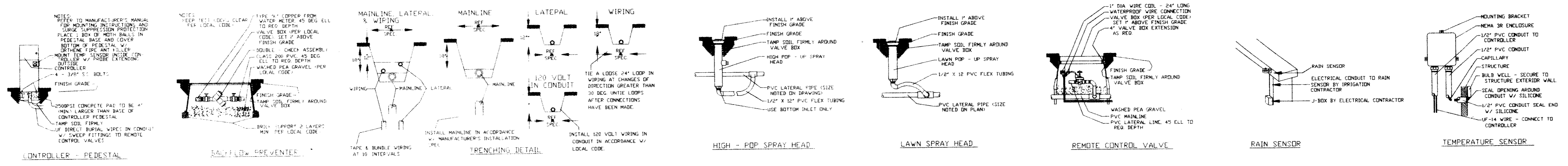


BELTWOOD PARKWAY  
 ADDISON, TEXAS



PROJECT NAME: BELTWOOD PARKWAY  
 ADDISON, TEXAS  
 MEESK DESIGN GROUP  
 1100 CENTENNIAL BLVD. #120  
 RICHARDSON, TEXAS 75081  
 (214)990-7474  
 FAX (214)990-7870

TITLE: IRRIGATION  
 DATE: 09/09/96  
 SCALE: 1" = 10'-0"  
 SHEET: SHEET 4 L3.01

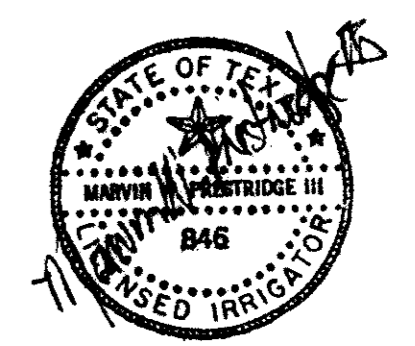


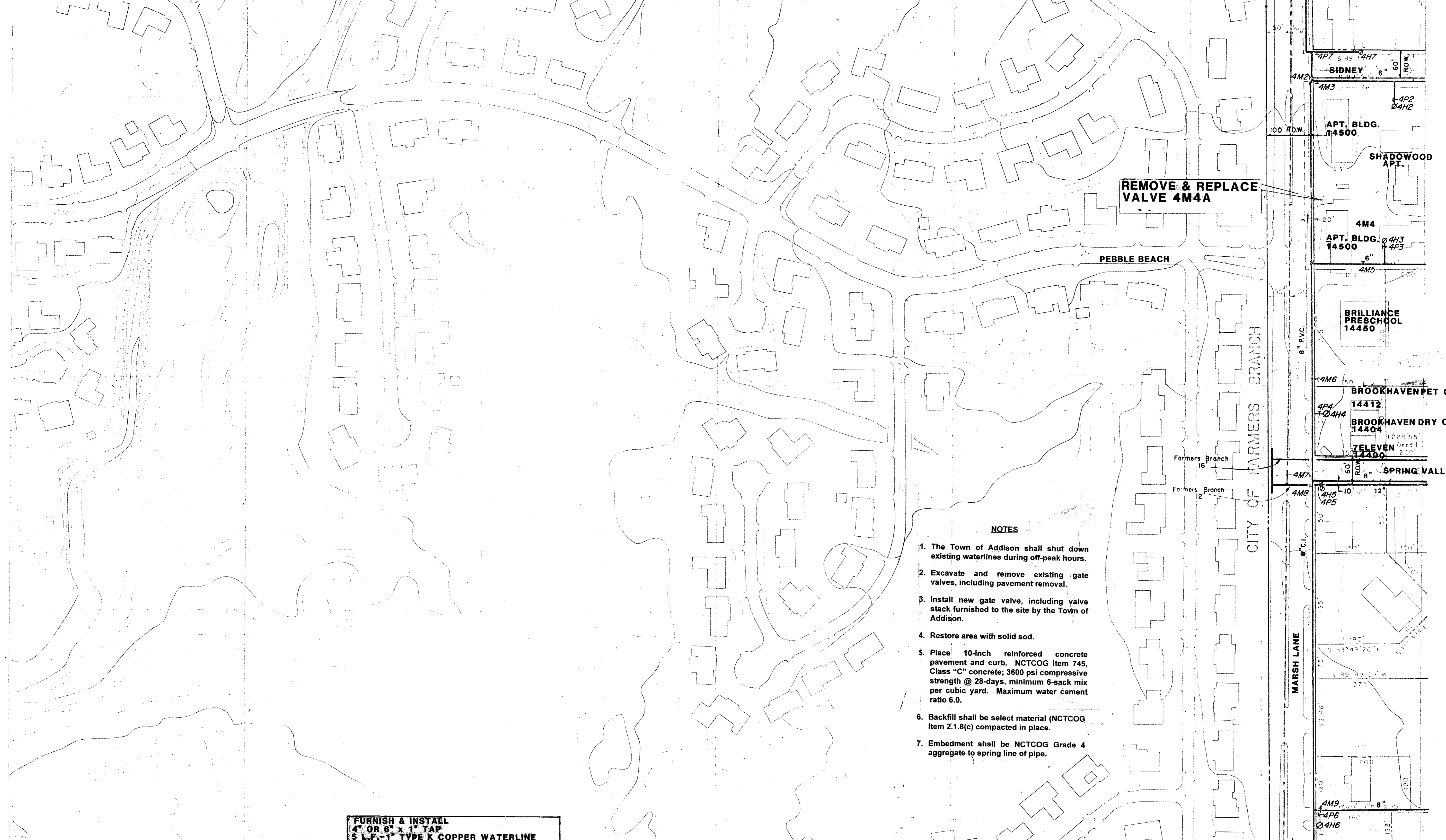
- NOTES**
- ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF 14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE PERMANENT AND WATERPROOF.
  - COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
  - LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER.
  - PIPING AND VALVES IN PAVING SHOWN FOR CLARITY. INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
  - CONNECT LAWN AND HIGH POP SPRAY HEADS TO LATERAL PIPE WITH POLY NIPPLES AND BCH40 PVC FITTINGS AS REQUIRED. PER DETAIL SHOWN. USE WELD-ON #786 SOLVENT AND #2010 PRIMER ON THESE CONNECTIONS.
  - INSTALL REMOTE CONTROL VALVES IN TEN (10) VALVE BOXES PER DETAIL SHOWN.
  - SLEEVES SHALL BE CLASS 200 PVC SIZED AS NOTED ON PLANS.
  - ROUTE COMMON WIRE FROM CONTROLLER TO REMOTE SENSORS IN SERIES PRIOR TO CONNECTING TO REMOTE CONTROL VALVES.
  - TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN 50.0 PSI, DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER. DESIGN PRESSURE IS 34.0 PSI.

**IRRIGATION LEGEND**

| SYMBOL | DESCRIPTION          | MANUFACTURER   | MODEL NO.   |
|--------|----------------------|----------------|---|
| ●      | LAWN SPRAY HEAD      | WEATHER-MATIC  | #55P W/ 420P, 420H, OR 420G NOZZLES UNLESS NOTED OTHERWISE        |
| ⊕      | HIGH-POP SPRAY HEAD  | WEATHER-MATIC  | #75P W/ 420P, 420H, OR 420G NOZZLES UNLESS NOTED OTHERWISE        |
| ⊙      | REMOTE CONTROL VALVE | WEATHER-MATIC  | #1024PCR, SIZED AS SHOWN  |
| ■      | CONTROLLER           | IRRI-TECH      | IBOC-4B W/ PEDASTAL & 1950 RAINSTAT & PENN A-19A-C-1 TEMP. SENSOR |
| —      | MAINLINE PIPING      | REFER TO SPEC. | CLASS 200 PVC   |
| —      | LATERAL PIPING       | REFER TO SPEC. | CLASS 200 PVC   |
| ∩      | BACKFLOW PREVENTER   | FIBCO          | 809Y  |
| ⊕      | WATER METER          | REFER TO SPEC. | PER LOCAL BUILDING CODE   |
| 3      | STATION NUMBER       |                |   |
| 1" EV  | VALVE SIZE           |                |   |
| 10.3   | GPM (APPROX.)        |                |   |

**IRRI-TECH CORPORATION**  
 DESIGN DEPARTMENT  
 12650 SCHROEDER RD.  
 DALLAS, TEXAS 75243  
 (214)231-5151 FAX (214)231-5172



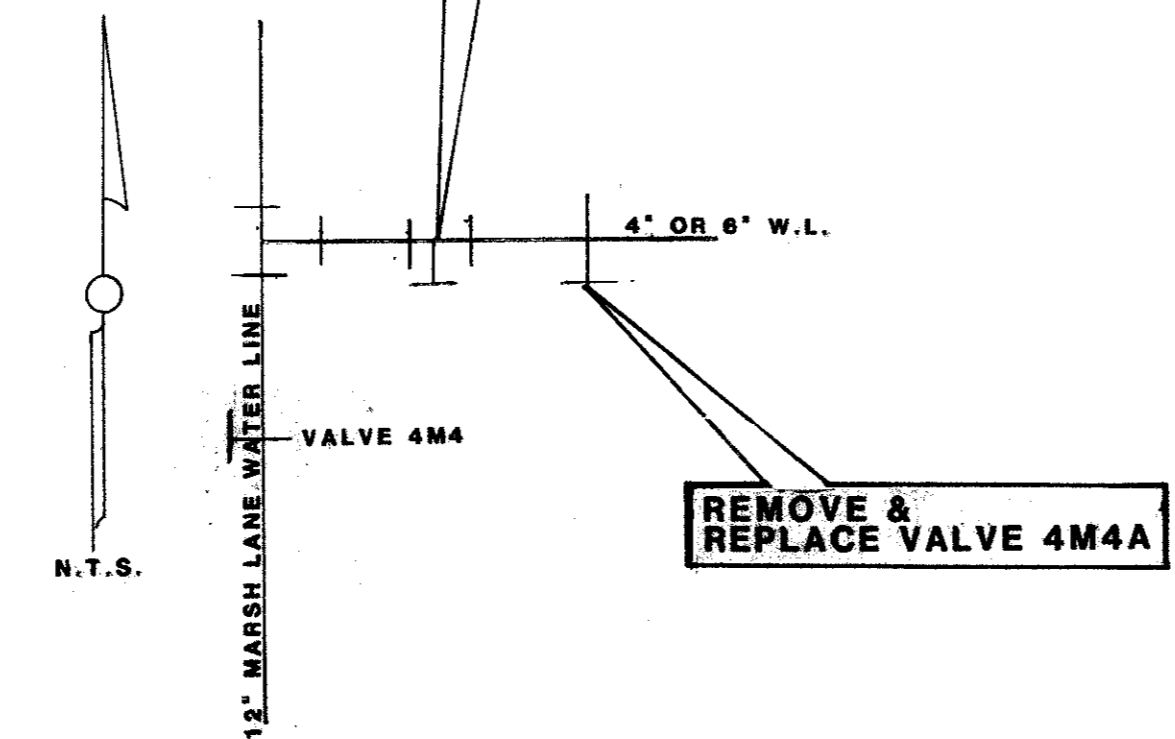


**NOTES**

1. The Town of Addison shall shut down existing waterlines during off-peak hours.
2. Excavate and remove existing gate valves, including pavement removal.
3. Install new gate valve, including valve stack furnished to the site by the Town of Addison.
4. Restore area with solid sod.
5. Place 10-Inch reinforced concrete pavement and curb. NCTCOG Item 745, Class "C" concrete; 3600 psi compressive strength @ 28-days, minimum 6-sack mix per cubic yard. Maximum water cement ratio 6.0.
6. Backfill shall be select material (NCTCOG Item 2.1.8(c) compacted in place.
7. Embedment shall be NCTCOG Grade 4 aggregate to spring line of pipe.

**FURNISH & INSTALL**  
 4" OR 6" x 1" TAP  
 5 L.F. - 1" TYPE K COPPER WATERLINE  
 1-1" CURB STOP - 6" BELOW SURFACE  
 1-1" CORP STOP W/COMP NUT  
 1-CONC. METER BOX & COVER (10" x 20")

**SCALE 1"=100'**



**LEGEND**

|  |                                 |
|--|---------------------------------|
|  | 16" Water Line (Size Indicated) |
|  | Fire Hydrant W/Valve            |
|  | Fire Hydrant No Valve           |
|  | Meter Station                   |
|  | Valve                           |
|  | Reducer                         |

# WATER

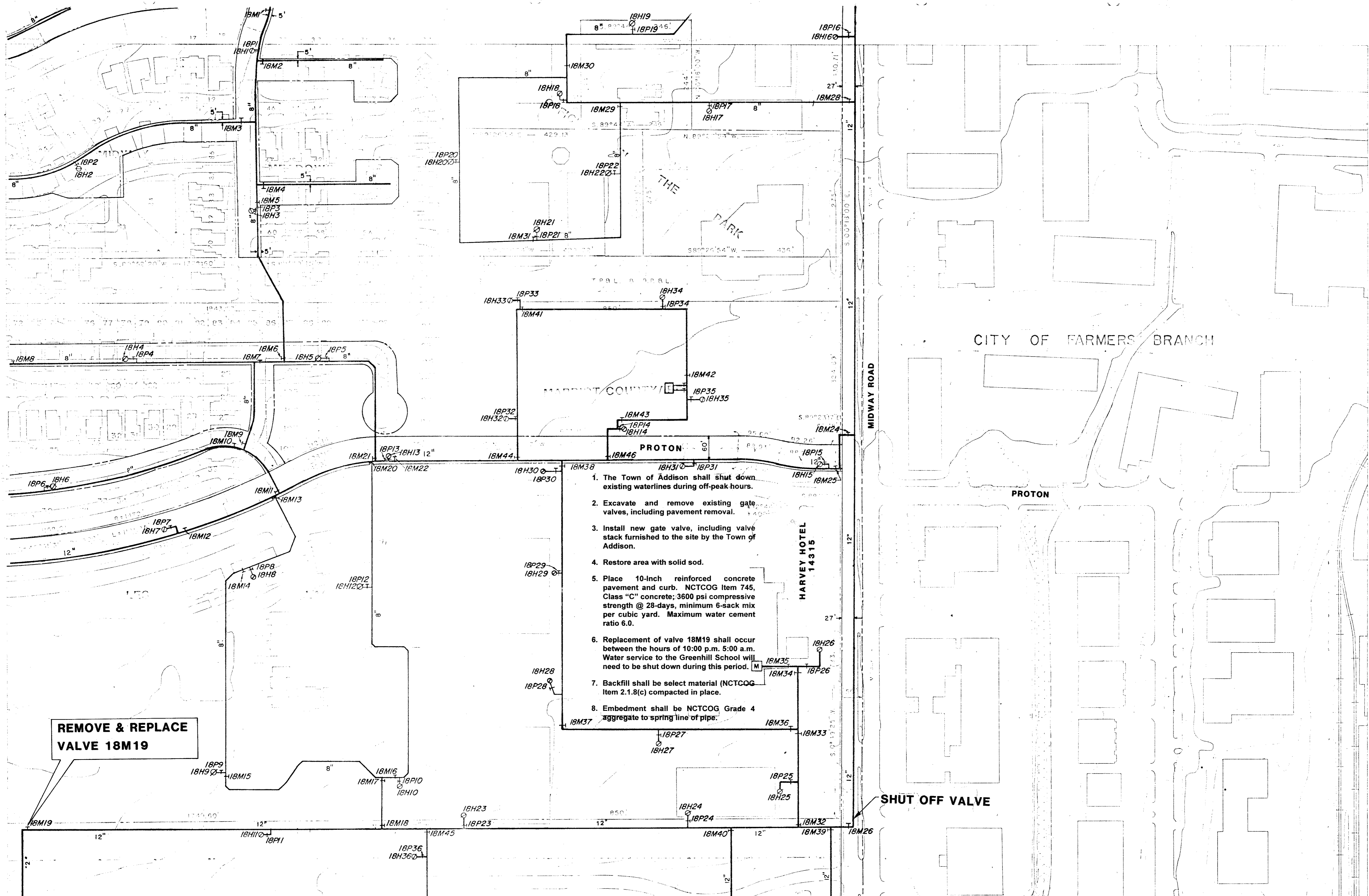
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## TOWN OF ADDISON

|                |  |
|----------------|--|
| Rev.           |  |
| <b>SHEET 5</b> |  |

|   |    |
|---|----|
| 3 | 8  |
| 4 | 9  |
| 5 | 10 |

SHEET INCL X



1. The Town of Addison shall shut down existing waterlines during off-peak hours.
2. Excavate and remove existing gate valves, including pavement removal.
3. Install new gate valve, including valve stack furnished to the site by the Town of Addison.
4. Restore area with solid sod.
5. Place 10-Inch reinforced concrete pavement and curb. NCTCOG Item 745, Class "C" concrete; 3600 psi compressive strength @ 28-days, minimum 6-sack mix per cubic yard. Maximum water cement ratio 6.0.
6. Replacement of valve 18M19 shall occur between the hours of 10:00 p.m. 5:00 a.m. Water service to the Greenhill School will need to be shut down during this period.
7. Backfill shall be select material (NCTCOG Item 2.1.8(c) compacted in place.
8. Embedment shall be NCTCOG Grade 4 aggregate to spring line of pipe.

**REMOVE & REPLACE VALVE 18M19**

**SHUT OFF VALVE**

GREENHILL SCHOOL

SCALE 1"=100

CITY OF FARMERS BRANCH

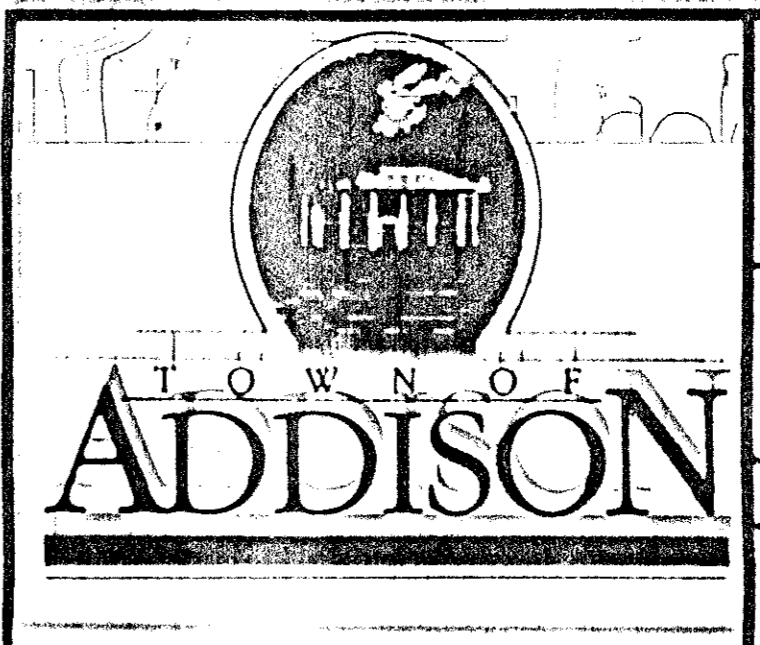
PROTON

HARVEY HOTEL 14315

MIDWAY ROAD

**LEGEND**

- 18" Water Line (Size Indicated)
- Fire Hydrant w/Valve
- Fire Hydrant No Valve
- Meter Station
- Valve
- Reducer



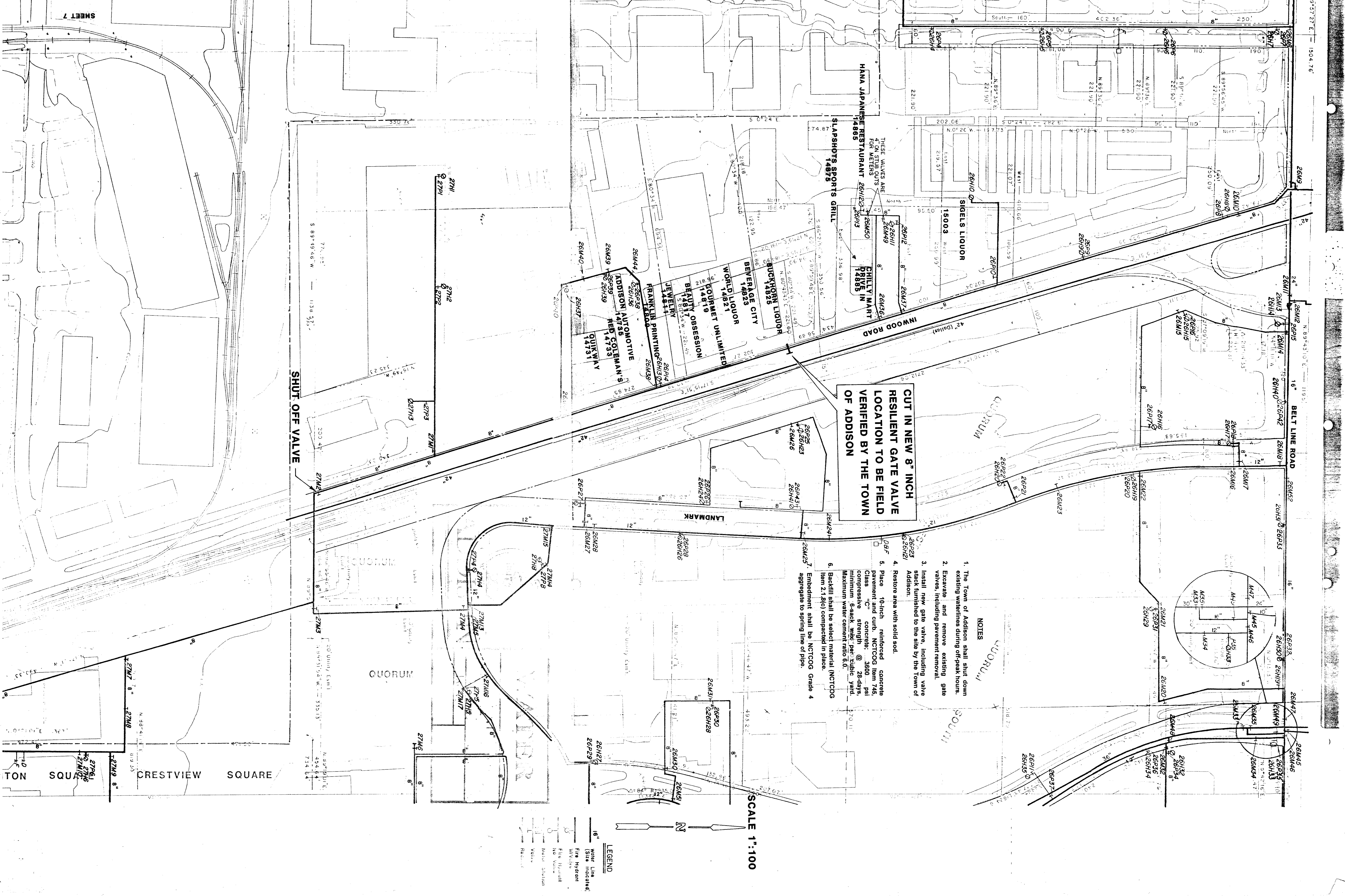
**WATER**

Rev.

SHEET 6

|   |    |    |
|---|----|----|
| 7 | 17 | 26 |
| 8 | 18 | 27 |
| 9 | 19 | 28 |





**CUT IN NEW 8" INCH  
RESILIENT GATE VALVE  
LOCATION TO BE FIELD  
VERIFIED BY THE TOWN  
OF ADDISON**

**NOTES**

1. The Town of Addison shall shut down existing waterlines during off-peak hours.
  2. Excavate and remove existing gate valves, including pavement removal.
  3. Install new gate valve, including valve stack furnished to the site by the Town of Addison.
  4. Restore area with solid sod.
  5. Place 10-inch reinforced concrete pavement and curb. NCTCOG Item 745. Class "C" concrete: 3600 psi compressive strength @ 28-days, minimum 6-sack, min. per. t/cubic yard. Maximum water cement ratio 6.0.
  6. Backfill shall be select material (NCTCOG Item 2.1.g)(c) compacted in place.
- Embedment shall be NCTCOG Grade 4 aggregate to spring line of pipe.

SCALE 1"=100

**LEGEND**

- 16" Water Line (Site Indicated)
- Fire Hydrant
- Water Station
- Valve
- Gate Valve
- Hydrant
- Relief

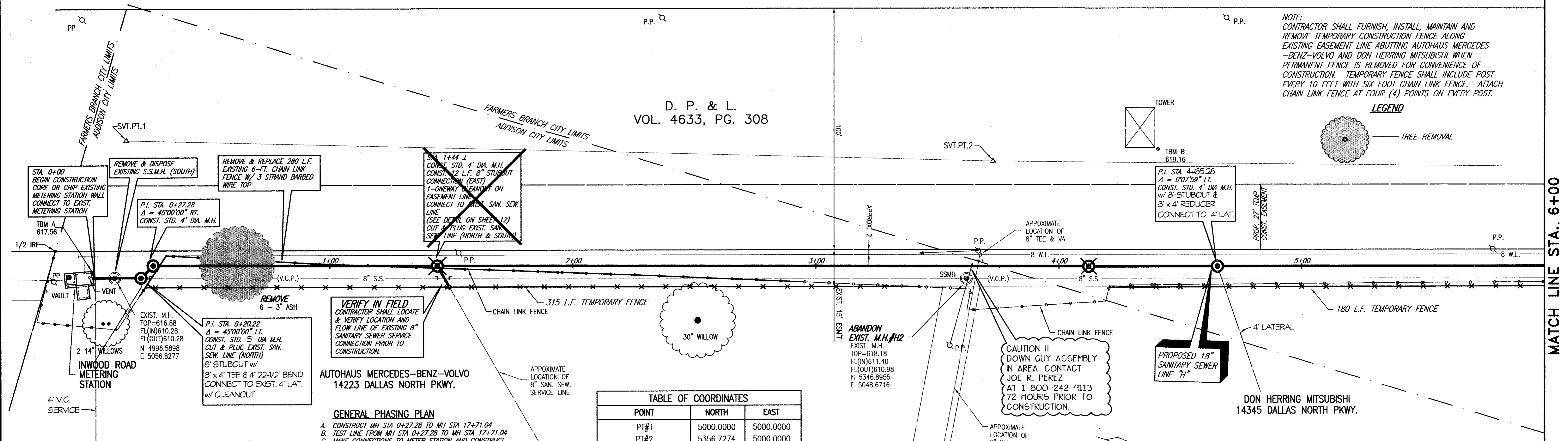
SHUT OFF VALVE

D. P. & L.  
VOL. 4633, PG. 308

NOTE:  
CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE TEMPORARY CONSTRUCTION FENCE ALONG EXISTING EASEMENT LINE ABUTTING AUTOHAUS MERCEDES-BENZ-VOLVO AND DON HERRING MITSUBISHI WHEN PERMANENT FENCE IS REMOVED FOR CONVENIENCE OF CONSTRUCTION. TEMPORARY FENCE SHALL INCLUDE POST EVERY 10 FEET WITH SIX FOOT CHAIN LINK FENCE. ATTACH CHAIN LINK FENCE AT FOUR (4) POINTS ON EVERY POST.

LEGEND

TREE REMOVAL



AUTOHAUS MERCEDES-BENZ-VOLVO  
14223 DALLAS NORTH PKWY.

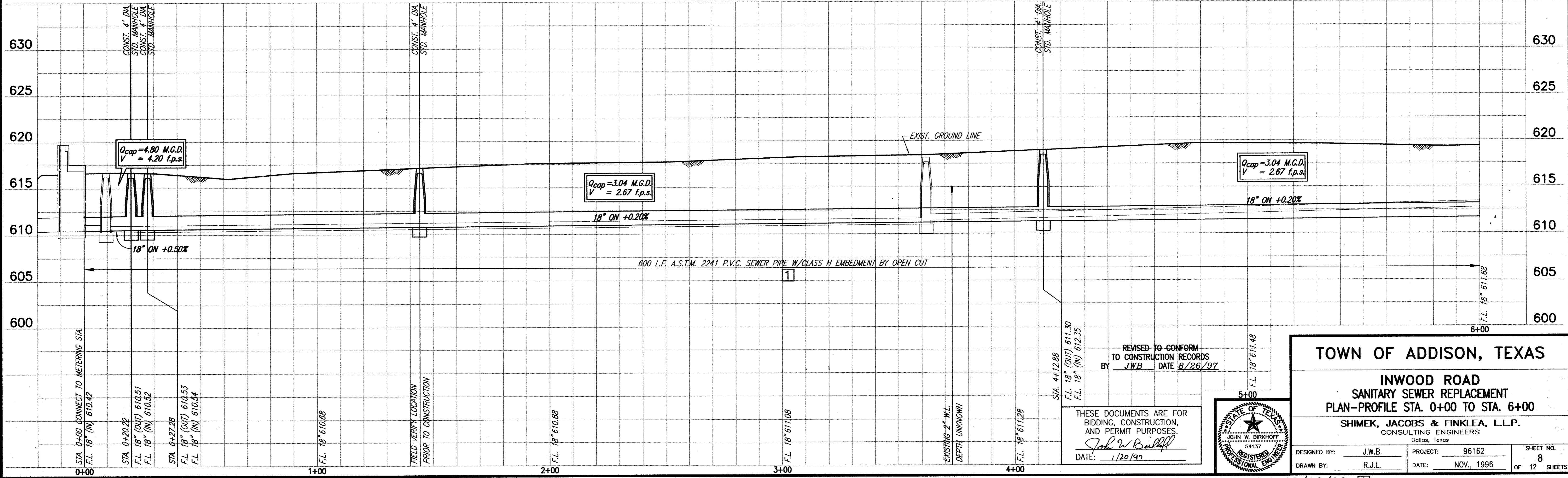
GENERAL PHASING PLAN

- A. CONSTRUCT MH STA 0+27.28 TO MH STA 17+71.04
- B. TEST LINE FROM MH STA 0+27.28 TO MH STA 17+71.04
- C. MAKE CONNECTIONS TO METER STATION AND CONSTRUCT FROM STA 0+00 TO 0+27.28 AND CONNECTION BETWEEN MH STA 17+71.04 TO MH #110 (LATERAL H-2).
- D. CONSTRUCT MH STA 17+71.04 TO MH STA 18+31.64 AND MAKE CONNECTION BETWEEN MH STA 7+88.96 AND MH #13 (LATERAL H-1)
- E. PROVIDE ADDISON WITH COLOR TV INSPECTION OF COMPLETED LINES IN "C" & "D" ABOVE.

| TABLE OF COORDINATES   |           |           |
|------------------------|-----------|-----------|
| POINT                  | NORTH     | EAST      |
| PT#1                   | 5000.0000 | 5000.0000 |
| PT#2                   | 5356.7274 | 5000.0000 |
| 1/2 IRF STA. -(0+12.9) | 4971.9344 | 5046.3840 |
| P.I. STA. 0+20.22      | 5007.3788 | 5056.5765 |
| P.I. STA. 0+27.28      | 5012.2511 | 5051.4719 |
| P.I. STA. 4+12.28      | 5397.1468 | 5042.5105 |

T.B.M. RS "D" CUT IN DRIVEWAY AT BANK PARKING LOT STA. 18+28, 32' LT. ELEV.=632.70 N 6798.4563 E 5059.2585  
T.B.M. B "D" CUT IN NORTHEAST CORNER OF TOWER STA. 4+40 ELEV.=619.16 N 5424.4635 E 4993.3687

NOTE:  
CONTRACTOR SHALL PUMP WASTEWATER AROUND METER STATION AND CORE METER STATION WALL OR CHIP METER STATION WALL WITH WASTEWATER FLOWING IN.  
THE OPENING SHALL BE SEALED WITH A WATER STOP, NON SHRINK NON METALIC GROUT AND A VERY GOOD SETTING CONCRETE (QUICK PLUG).



TOWN OF ADDISON, TEXAS

INWOOD ROAD  
SANITARY SEWER REPLACEMENT  
PLAN-PROFILE STA. 0+00 TO STA. 6+00

SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96162 SHEET NO. 8  
DRAWN BY: R.J.L. DATE: NOV., 1996 OF 12 SHEETS

REVISOR: JWB DATE: 8/26/97

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
DATE: 1/20/97

STATE OF TEXAS  
JOHN W. BIRKHOF  
54137  
REGISTERED PROFESSIONAL ENGINEER

MATCH LINE STA. 6+00

MATCH LINE STA. 12+00

D. P. & L.  
VOL. 4633, PG. 308

NOTE:  
CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE TEMPORARY CONSTRUCTION FENCE ALONG EXISTING EASEMENT LINE ABUTTING DON HERRING MITSUBISHI AND THE PRINCETON WHEN PERMANENT FENCE IS REMOVED FOR CONVENIENCE OF CONSTRUCTION. TEMPORARY FENCE SHALL INCLUDE POST EVERY 10 FEET WITH SIX FOOT CHAIN LINK FENCE. ATTACH CHAIN LINK FENCE AT FOUR (4) POINTS ON EVERY POST.

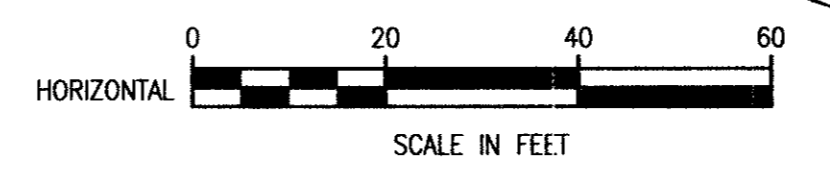
TABLE OF COORDINATES

| POINT                | NORTH     | EAST      |
|----------------------|-----------|-----------|
| PT#2                 | 5356.7274 | 5000.0000 |
| PT#67                | 5784.6567 | 4993.6116 |
| 1/2" I.P.F. STA 7+80 | 5764.4900 | 5026.3648 |
| STA. 7+88.96         | 5773.7025 | 5032.8689 |

T.B.M. RS "□" CUT IN DRIVEWAY AT BANK PARKING LOT STA. 18+28, 32' LT. ELEV.=632.70 N 6798.4563 E 5059.2585  
T.B.M. C "□" CUT IN SOUTHWEST CORNER OF TOWER STA. 10+68 ELEV.=625.10 N 6050.7724 E 4957.8074

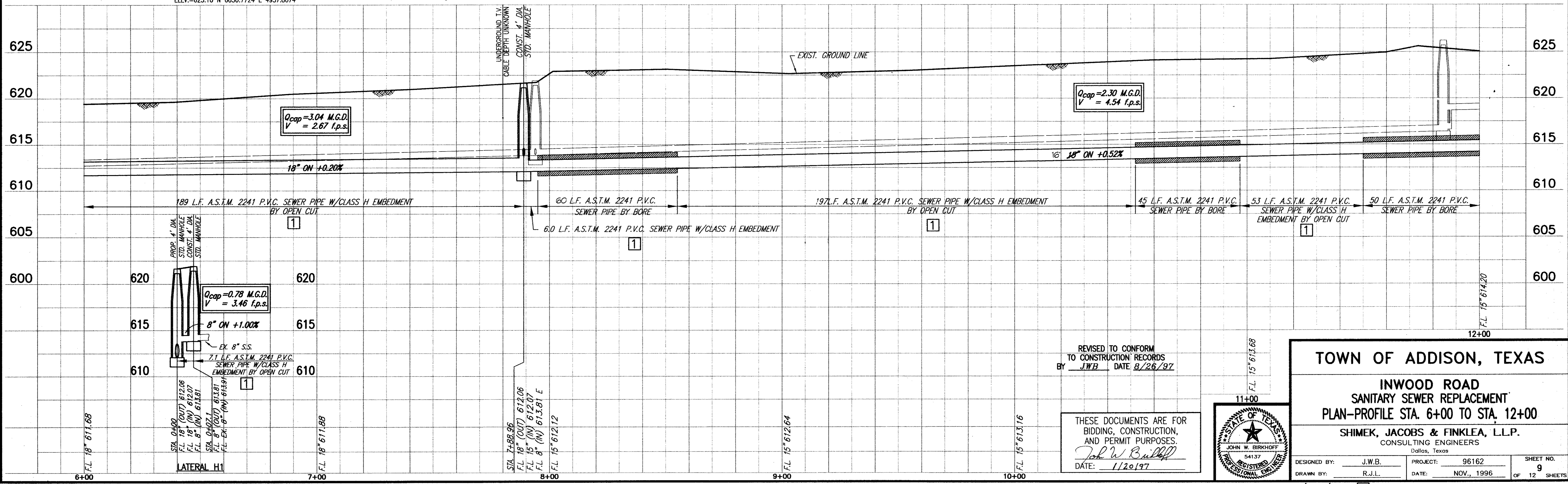
FARMERS BRANCH CITY LIMITS  
ADDISON CITY LIMITS

CAUTION II  
POWER CABLE IN AREA.  
FIELD VERIFY LOCATION OF POWER CABLE  
CONTACT JOE R. PEREZ  
AT 1-800-242-9113  
72 HOURS PRIOR TO CONSTRUCTION.



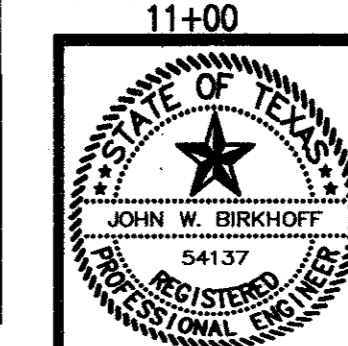
THE PRINCETON  
14651 DALLAS NORTH PKWY.  
MULTI STORY PARKING GARAGE

NOTE:  
CONTRACTOR SHALL ABANDON MH #H9. ABANDON SHALL INCLUDE PLACING 2000 PSI(N.C.T.C.O.G. 7.4.5 CLASS B) CONCRETE 12 INCHES ABOVE SPRING LINE OF PIPES, BACKFILLING IN 8 INCH LIFTS WITH EXCAVATED OR IMPORTED MATERIAL TO THE COVER. REPLACE COVER, WELD TO RING.



REVISED TO CONFORM TO CONSTRUCTION RECORDS BY JWB DATE 8/26/97

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
John W. Bullard  
DATE: 1/20/97



TOWN OF ADDISON, TEXAS

INWOOD ROAD  
SANITARY SEWER REPLACEMENT  
PLAN-PROFILE STA. 6+00 TO STA. 12+00

SHIMEK, JACOBS & FINKLEA, L.L.P.  
CONSULTING ENGINEERS  
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96162 SHEET NO. 9  
DRAWN BY: R.J.L. DATE: NOV., 1996 OF 12 SHEETS

D. P. & L.  
VOL. 4633, PG. 308

NOTE: CONTRACTOR SHALL HAVE TO ELECTRIC FIELD LOCATE LOCATION OF UNDERGROUND CONDUIT IN THE VICINITY OF P.I. STA. 17+76.04. CONTRACTOR SHALL SHIFT PROPOSED MANHOLE LOCATION ALONG N-S LINE AND ADJUST HORIZONTAL ALIGNMENT OF E-W LINE AND NORTHEAST LINE TO AVOID ANY CONDUIT FOUND.

MATCH LINE STA. 12+00

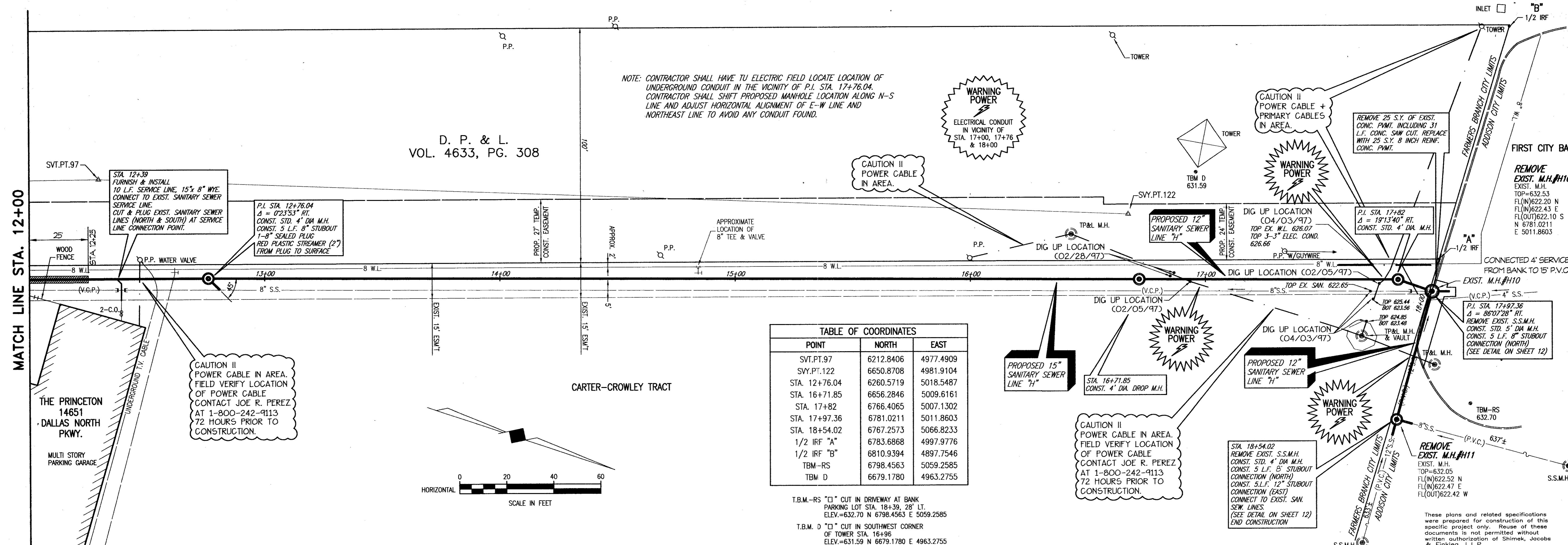
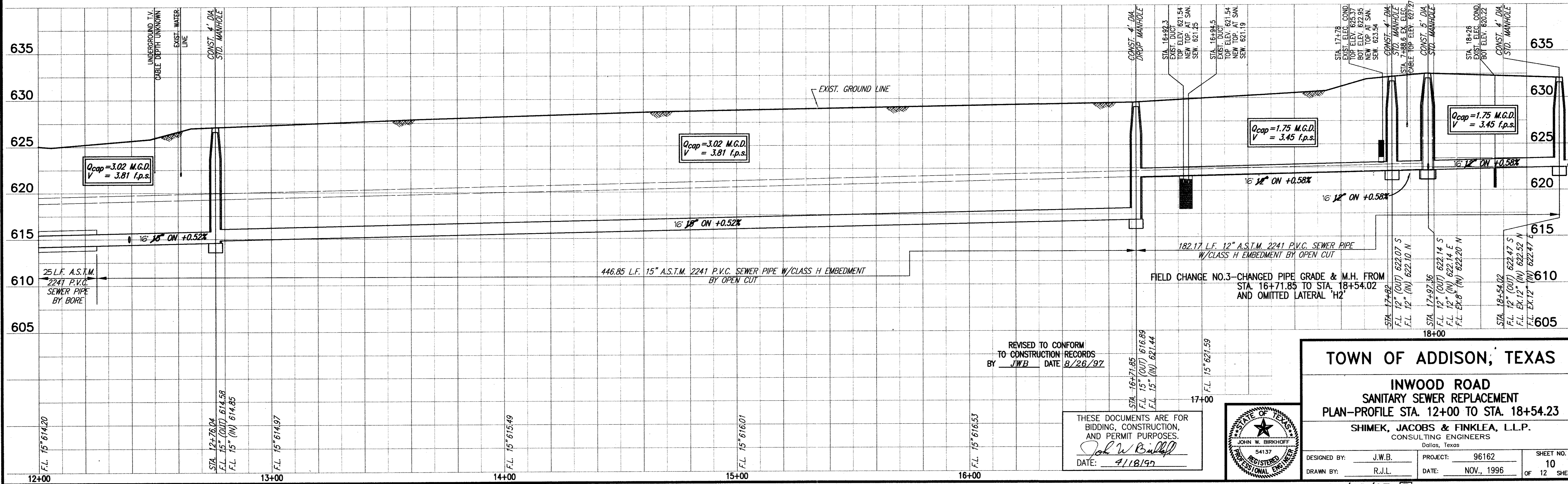


TABLE OF COORDINATES

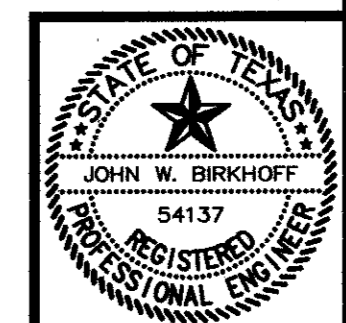
| POINT         | NORTH     | EAST      |
|---------------|-----------|-----------|
| SVT.PT.97     | 6212.8406 | 4977.4909 |
| SVY.PT.122    | 6650.8708 | 4981.9104 |
| STA. 12+76.04 | 6260.5719 | 5018.5487 |
| STA. 16+71.85 | 6656.2846 | 5009.6161 |
| STA. 17+82    | 6766.4065 | 5007.1302 |
| STA. 17+97.36 | 6781.0211 | 5011.8603 |
| STA. 18+54.02 | 6767.2573 | 5066.8233 |
| 1/2 IRF "A"   | 6783.6868 | 4997.9776 |
| 1/2 IRF "B"   | 6810.9394 | 4897.7546 |
| TBM-RS        | 6798.4563 | 5059.2585 |
| TBM D         | 6679.1780 | 4963.2755 |

T.B.M.-RS "□" CUT IN DRIVEWAY AT BANK PARKING LOT STA. 18+39.28' LT. ELEV.=632.70 N 6798.4563 E 5059.2585  
 T.B.M. D "□" CUT IN SOUTHWEST CORNER OF TOWER STA. 16+96 ELEV.=631.59 N 6679.1780 E 4963.2755



REVISED TO CONFORM TO CONSTRUCTION RECORDS BY JWB DATE 8/28/97

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
 John W. Birkhoff  
 DATE: 9/18/97

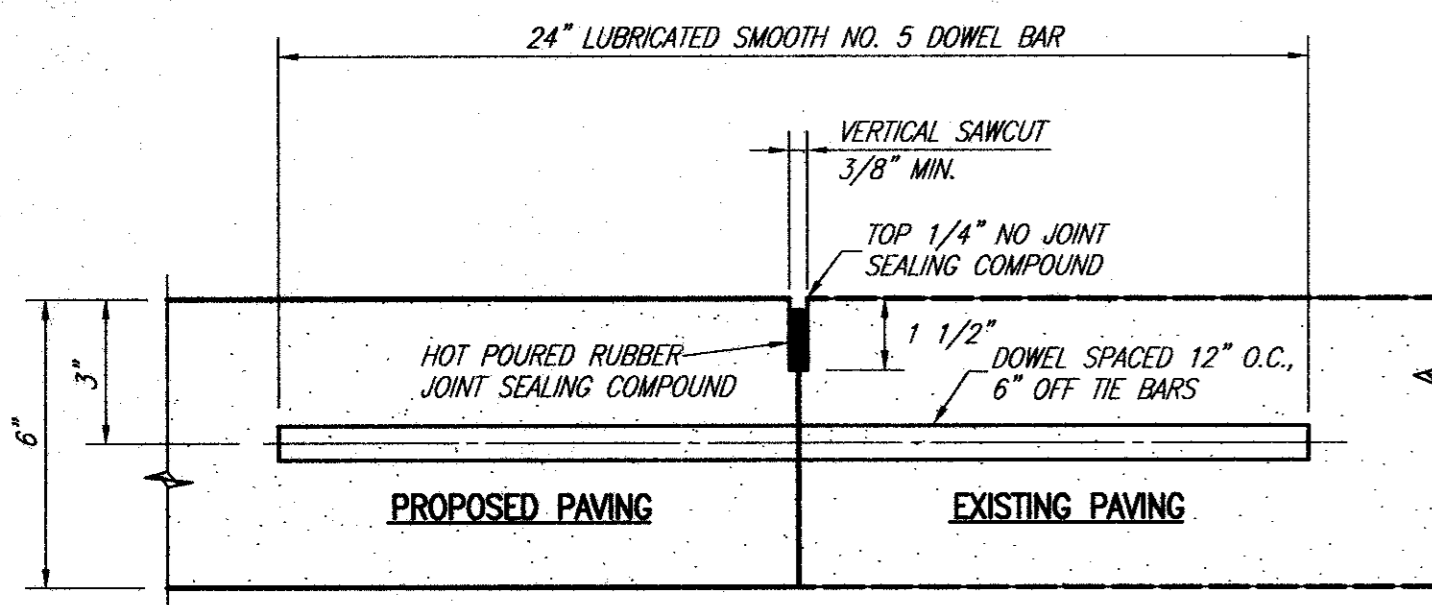


**TOWN OF ADDISON, TEXAS**

**INWOOD ROAD  
SANITARY SEWER REPLACEMENT  
PLAN—PROFILE STA. 12+00 TO STA. 18+54.23**

**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
CONSULTING ENGINEERS  
Dallas, Texas

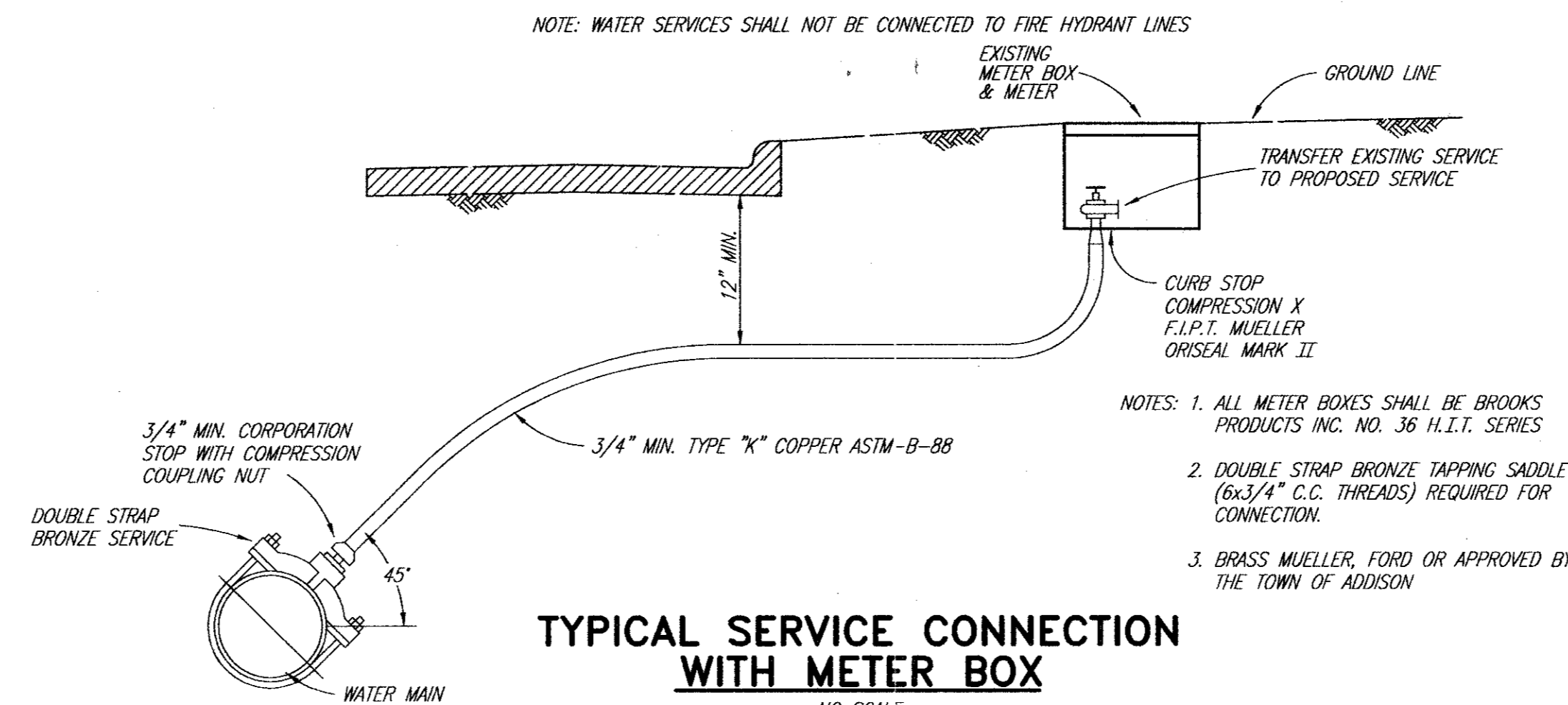
DESIGNED BY: J.W.B. PROJECT: 96162 SHEET NO. 10  
 DRAWN BY: R.J.L. DATE: NOV., 1996 OF 12 SHEETS



NOTE: DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

**CONNECTION TO EXISTING PAVEMENT**

NOT TO SCALE

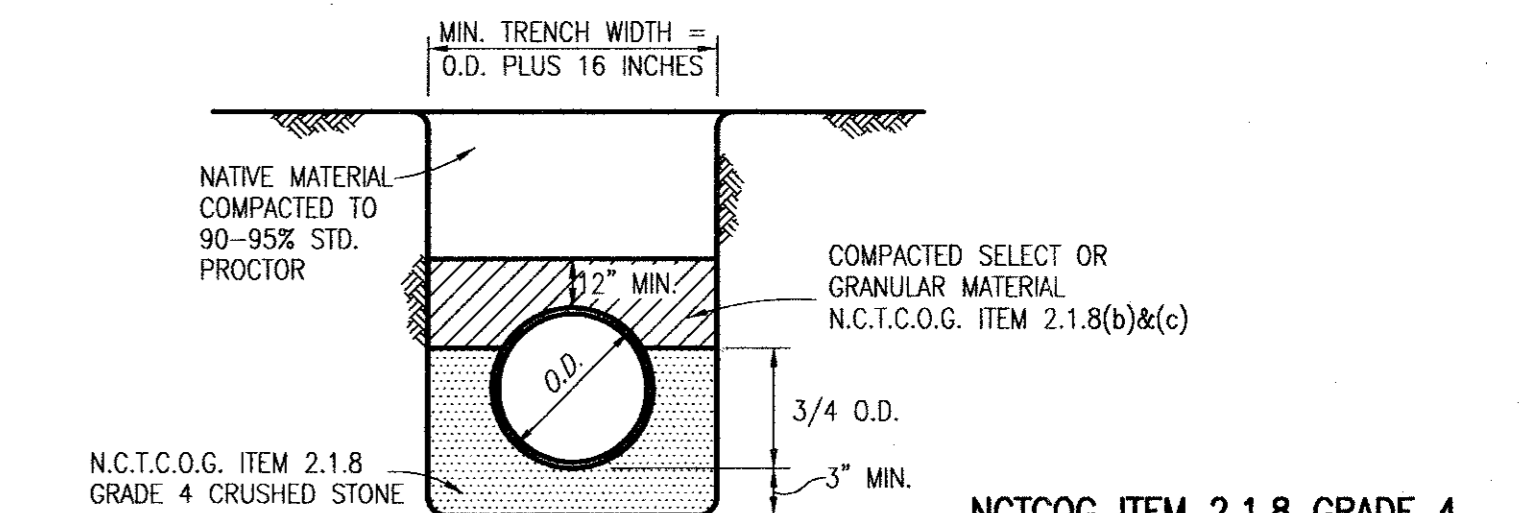


**TYPICAL SERVICE CONNECTION WITH METER BOX**

NO SCALE

| TYPE "K" COPPER SERVICE PIPE SOFT ANNEALED | DOUBLE STRAP BRONZE SERVICE SADDLE WITH C.C. THREADS |
|--|--|
| 3/4" INCH                                  | 3/4" INCH  |
| 1 INCH                                     | 1 INCH   |
| 1 1/2 INCH                                 | 1 1/2 INCH   |
| 2 INCH                                     | 2 INCH   |

- NOTES: 1. ALL METER BOXES SHALL BE BROOKS PRODUCTS INC. NO. 36 H.I.T. SERIES  
 2. DOUBLE STRAP BRONZE TAPPING SADDLE (6x3/4" C.C. THREADS) REQUIRED FOR CONNECTION.  
 3. BRASS MUELLER, FORD OR APPROVED BY THE TOWN OF ADDISON

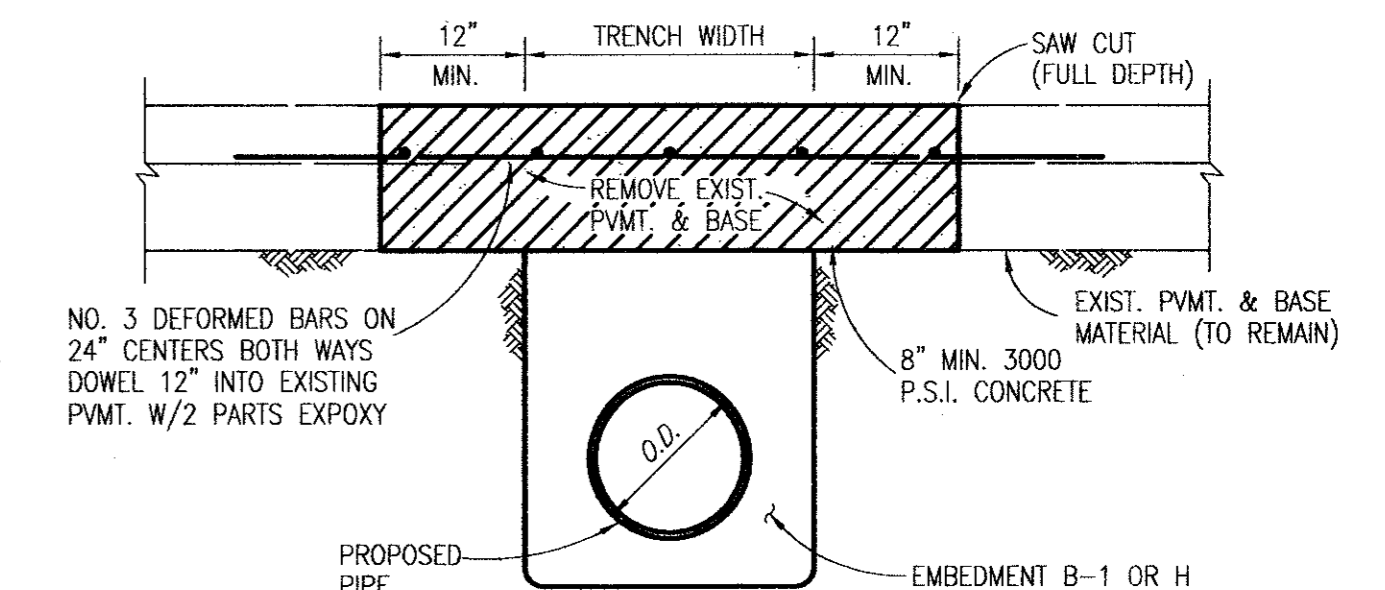


**CLASS B-1 EMBEDMENT**  
P.V.C. WATER INSTALLATION

NCTCOG ITEM 2.1.8 GRADE 4 STANDARD CRUSHED STONE

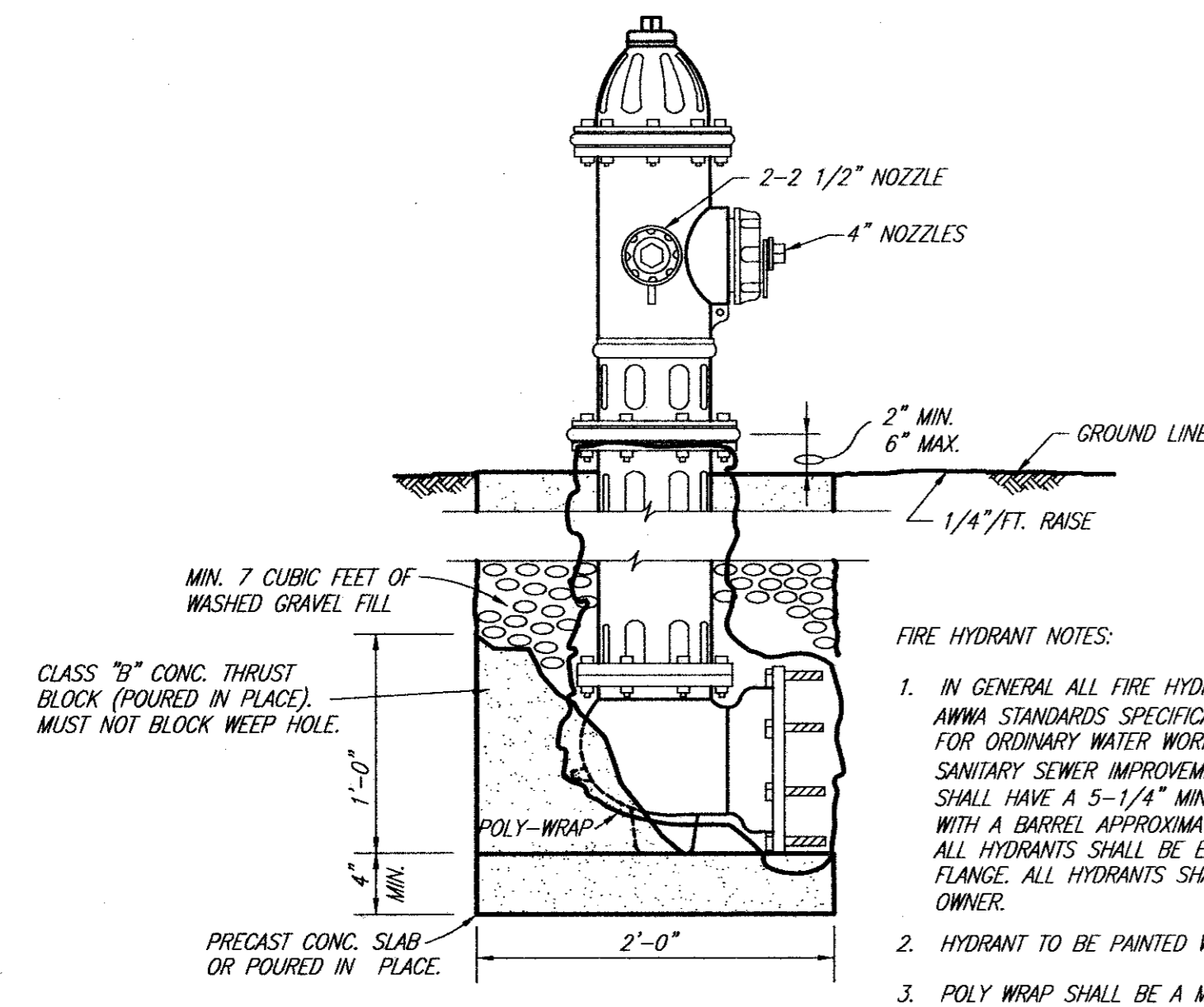
| SEIVE SIZE | % RETAINED |
|------------|------------|
| 1-1/2 INCH | 0          |
| 1 INCH     | 45-75      |
| 1/2 INCH   | 90-100     |
| NO. 4      | 95-100     |
| NO. 8      | 95-100     |

BRIDGE PORT CRUSHED LIMESTONE



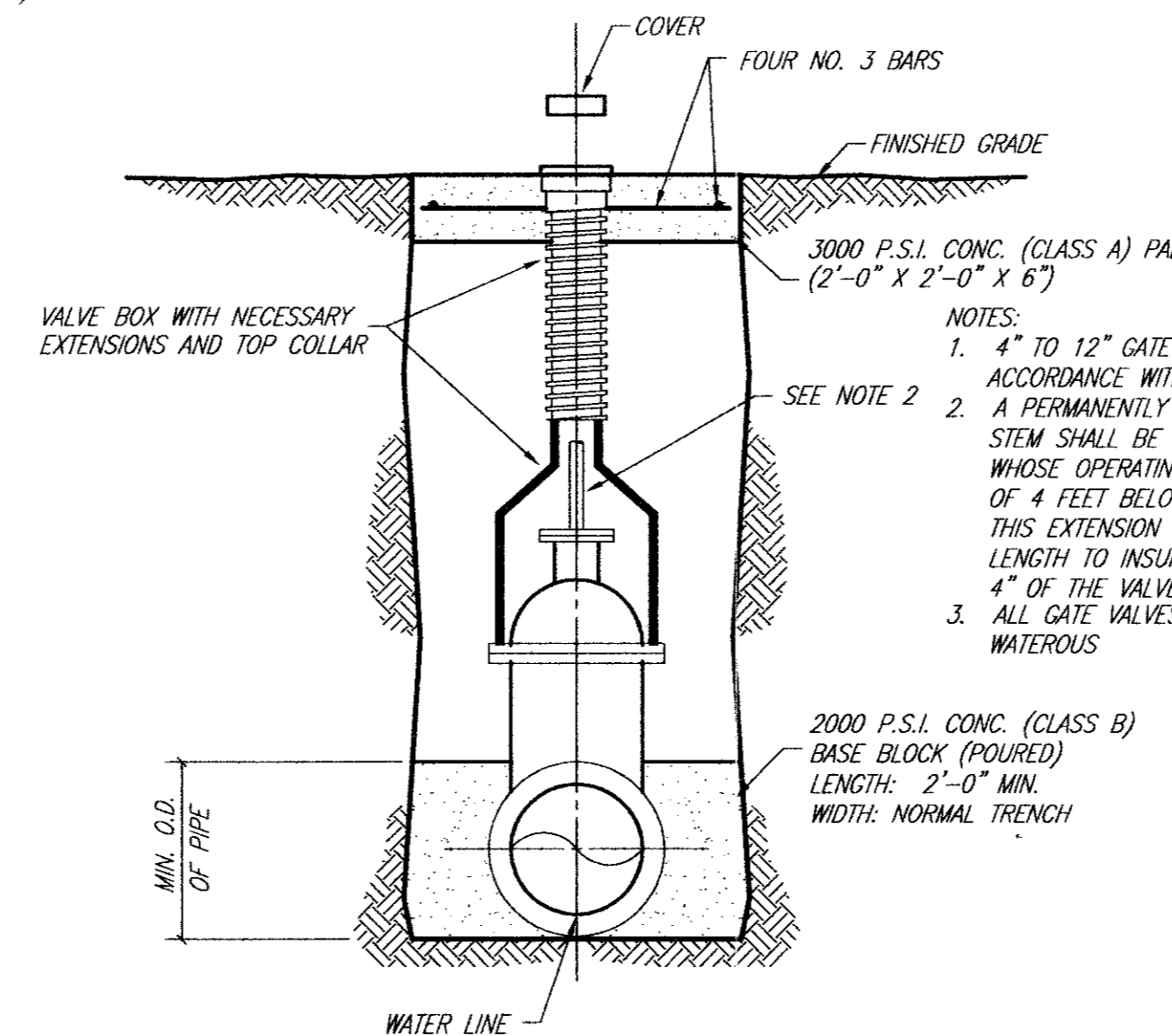
**EMBEDMENT AT DRIVEWAY CUT**

NOT TO SCALE



**FIRE HYDRANT NOTES:**

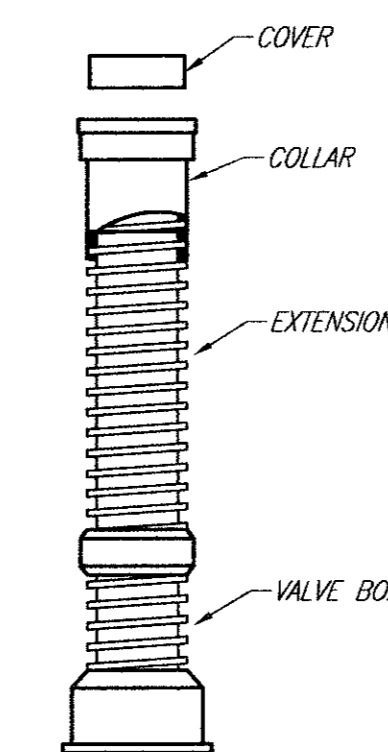
- IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO ANWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE OWNER.
- HYDRANT TO BE PAINTED WITH COLORS SELECTED BY OWNER.
- POLY WRAP SHALL BE A MIN. OF 8 MIL.



**VALVE SETTING & BOX**

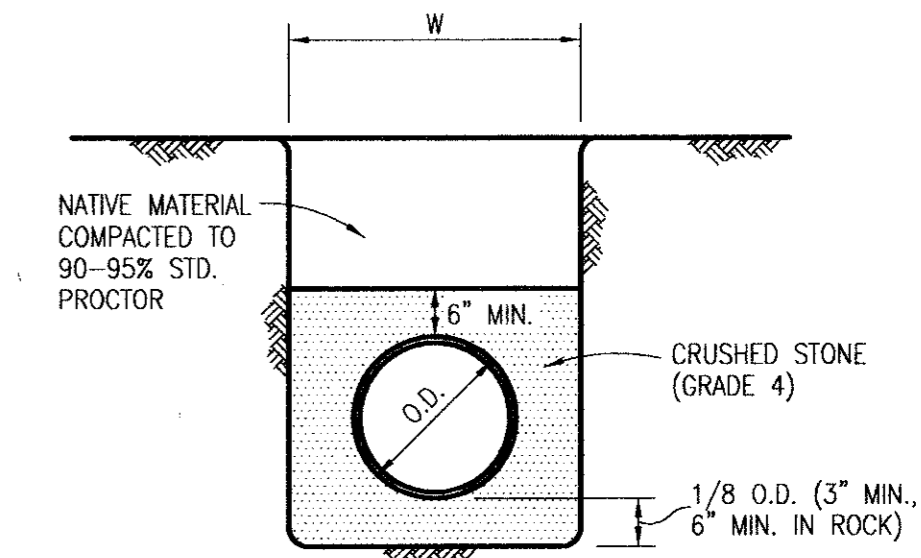
NO SCALE

- NOTES: 1. 4" TO 12" GATE VALVE SHALL BE IN ACCORDANCE WITH ANWA STANDARD C-509.  
 2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.  
 3. ALL GATE VALVES SHALL BE: MUELLER OR WATERLOUS



**VALVE BOX WITH EXTENSION**

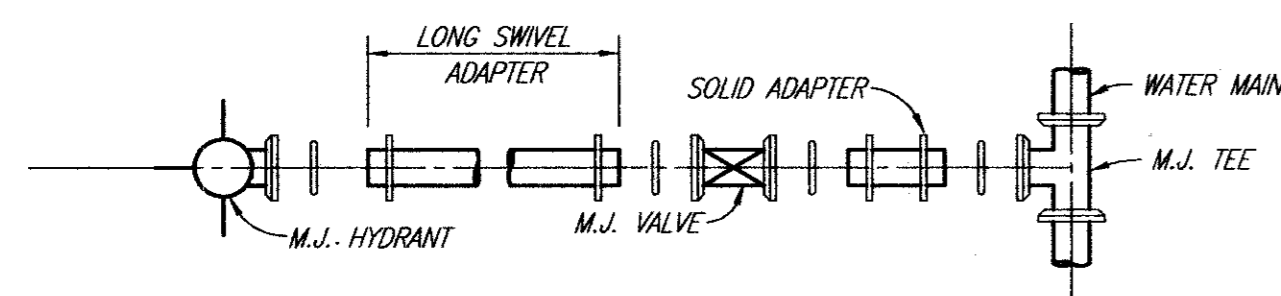
NO SCALE



**CLASS H EMBEDMENT**

P.V.C. PIPE ONLY  
STD. P.V.C. SEWER

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea.

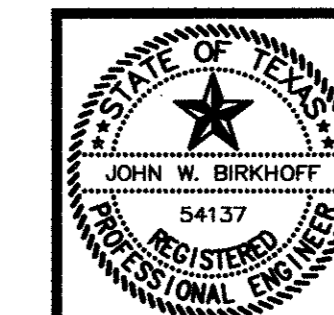


**TYPICAL FIRE HYDRANT INSTALLATION**

NO SCALE

REVISED TO CONFORM TO CONSTRUCTION RECORDS BY JWB DATE 8/26/97

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
John W. Birkhoff  
 DATE: 11/20/96

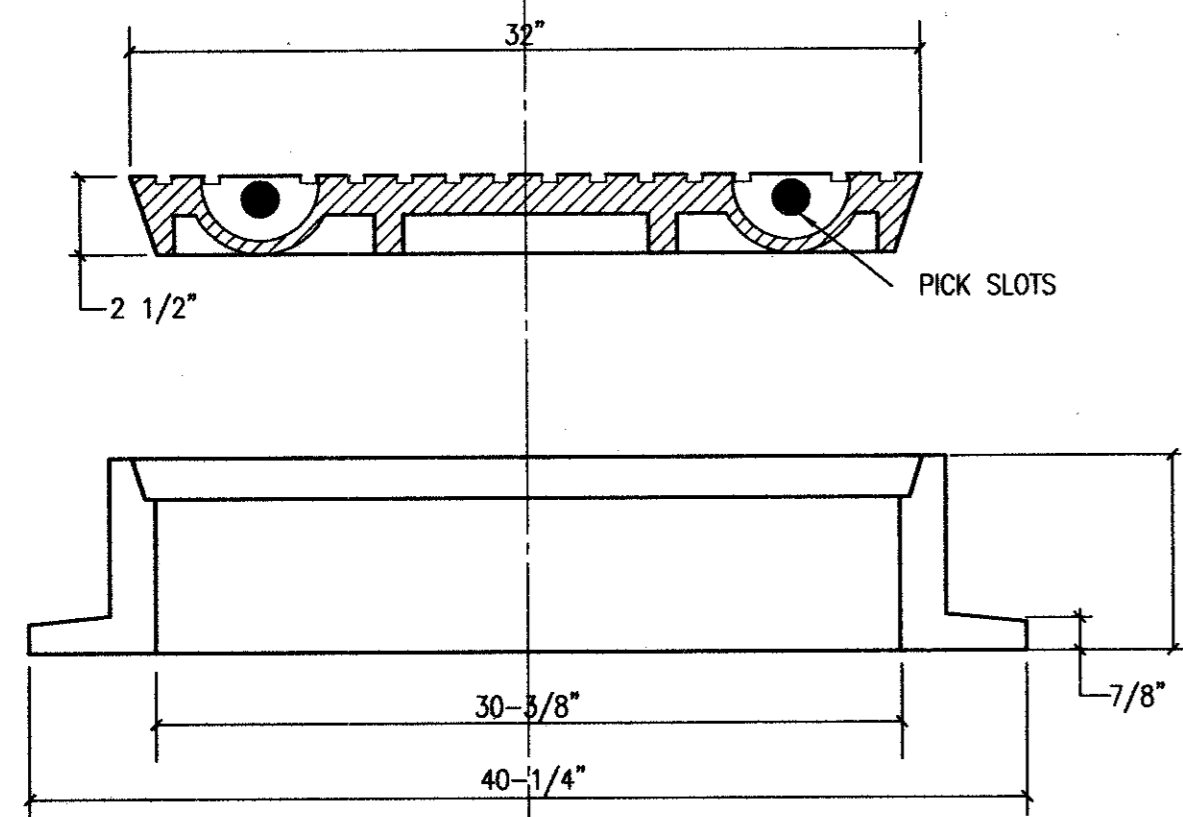
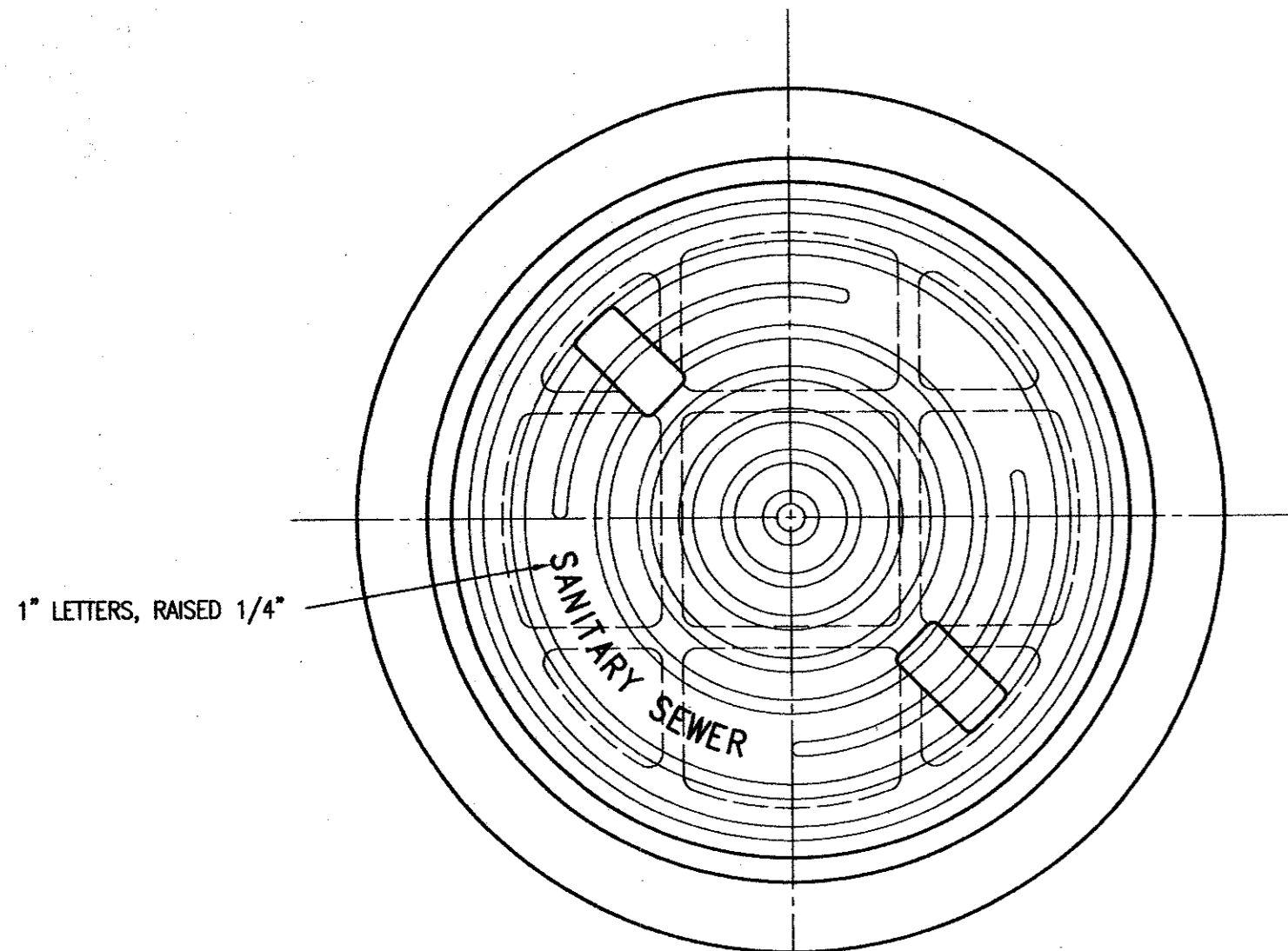


**TOWN OF ADDISON, TEXAS**

**DETAIL SHEET**

**SHIMEK, JACOBS & FINKLEA**  
CONSULTING ENGINEERS  
Dallas, Texas

|                            |                         |                     |
|----------------------------|-------------------------|---------------------|
| DESIGNED BY: <u>J.W.B.</u> | PROJECT: <u>96104</u>   | SHEET NO. <u>11</u> |
| DRAWN BY: <u>R.J.L.</u>    | DATE: <u>NOV., 1996</u> | OF <u>12</u> SHEETS |



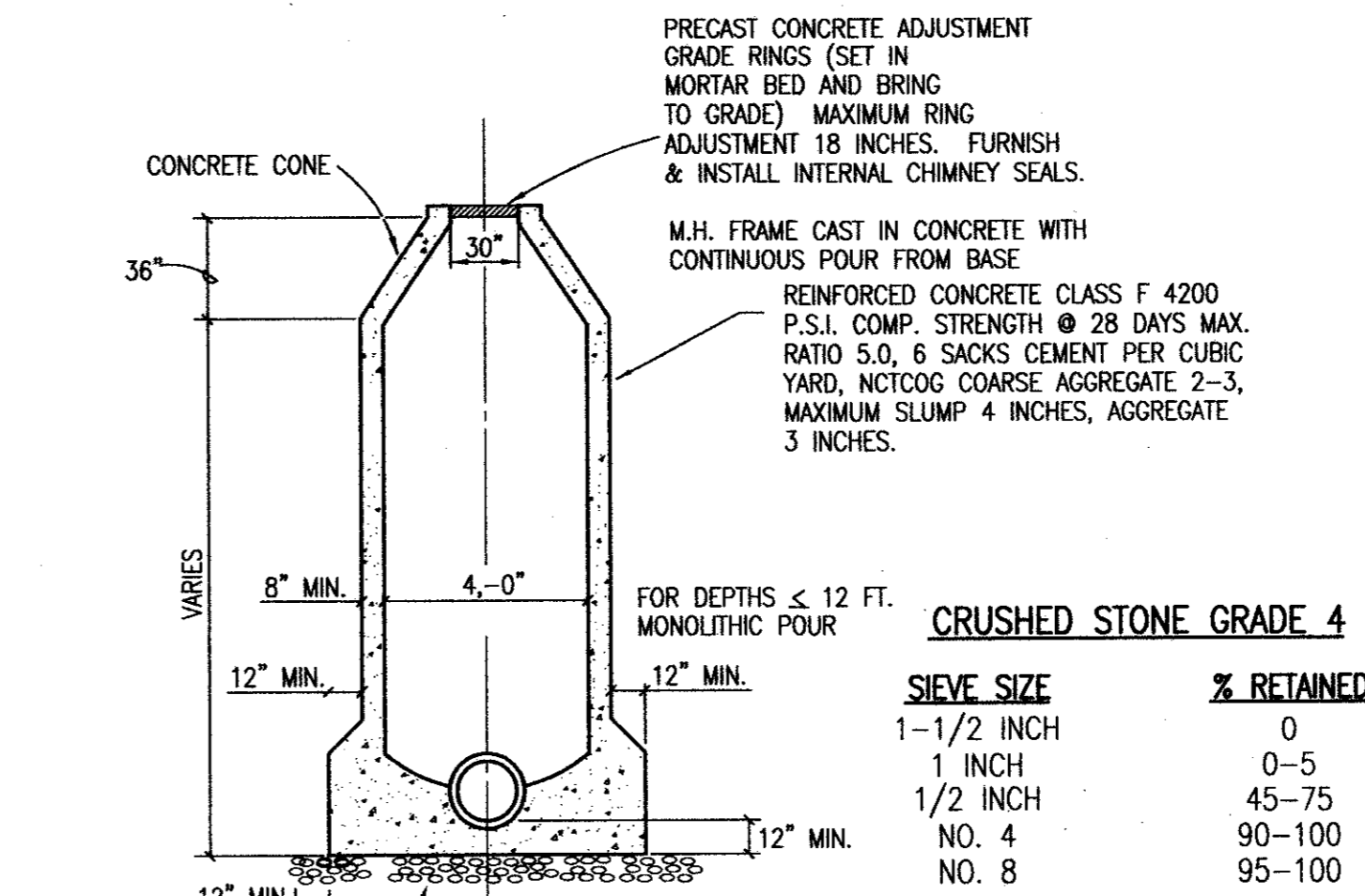
**MANHOLE RING AND COVER**

MANHOLE RING & COVER SHALL BE 455 LBS MIN. WT.

**GENERAL NOTES**

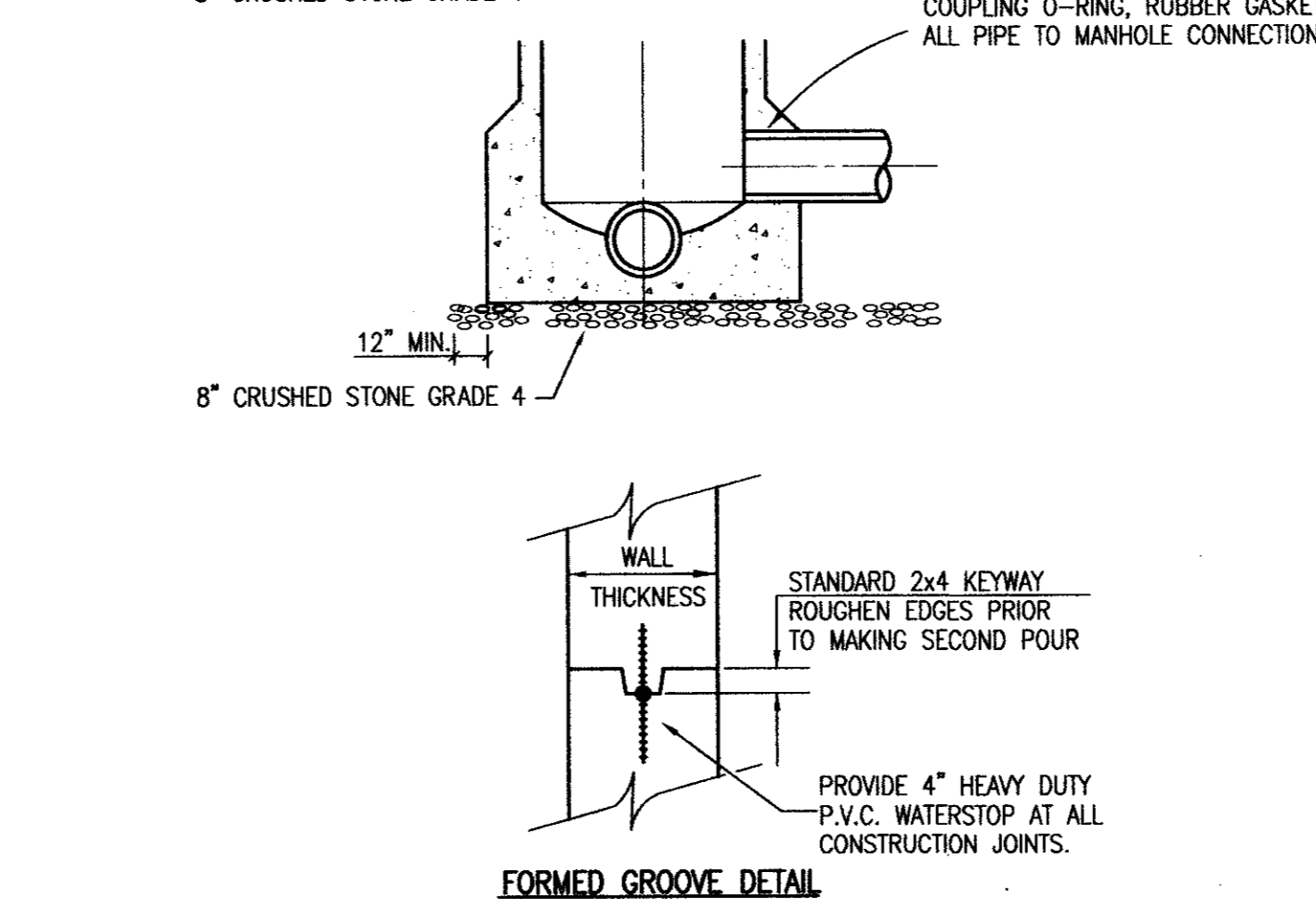
(NOTES APPLY TO ALL SHEETS)

- REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES AND SERVICE LINES. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING SUBSURFACE OR SURFACE UTILITIES OR UTILITY LINES, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES OR THE LIKE, WHICH ARE CROSSED OR EXPOSED BY THE CONSTRUCTION OPERATION.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION
  - T.U. ELECTRIC
  - SOUTHWESTERN BELL TELEPHONE
  - LONE STAR GAS
- PRIOR TO CONSTRUCTION OF PROPOSED LINES, THE CONTRACTOR SHALL LOCATE AND UNCOVER ALL SERVICE LINES AND VERIFY THAT EACH CAN BE CONNECTED TO THE PROPOSED MAIN LINE.
- ALL WYES, STACKS AND PIPE SERVICE CONNECTIONS SHALL BE P.V.C. (SDR-35).
- ALL PAVEMENT SHALL BE SAWCUT FOR TRENCHES. SAWCUTS SHALL BE FULL DEPTH.
- ALL CONCRETE PAVEMENT (ROADWAYS, CURB & GUTTERS, DRIVES, AND SIDEWALKS, ETC.) SHALL HAVE EXISTING STEEL SPLICED INTO PROPOSED CONCRETE REPLACEMENT STEEL. IF BARS CAN NOT BE LOCATED OR SPLICED, 18 INCH LONG NO. 4 DOWELS SHALL BE DRILLED INTO EXISTING PAVEMENT. CONTRACTOR SHALL UTILIZE A DRILLING RIG TO DRILL HOLES FOR DOWEL BARS. CONTRACTOR SHALL UTILIZE PROPER BITS AND PRESSURE, AS NOT TO DAMAGE EXISTING CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED PAVEMENT AND REPAIR AT HIS OWN COST.
- ALL MANHOLE/PIPE CONNECTIONS SHALL INCLUDE A COUPLING WITH O-RING RUBBER GASKET, KOR-N-SEAL, A-LOK OR APPROVED EQUAL.
- ALL EXISTING SEWER LINES, WHICH ARE TO BE PLUGGED, SHALL BE PLUGGED WITH A MINIMUM OF 18 INCHES OF 2000 PSI (N.C.T.C.O.G. ITEM 7.4.5, CLASS B) CONCRETE. THE 18 INCHES OF SEWER LINE TO BE PLUGGED SHALL BE CLEANED PRIOR TO PLUGGING.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND SPRINKLER SYSTEMS. ALL DAMAGES CAUSED BY CONSTRUCTION SHALL BE REPAIRED. ALL COST SHALL BE BORNE BY THE CONTRACTOR. ALL REPAIR WORK SHALL BE COMPLETED BY LICENSED IRRIGATOR.
- CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN SOLID SOD IN ALL DISTURBED AREAS FROM CONSTRUCTION ALONG BELTWOOD PKWY AND BETWEEN INWOOD RD. SAN. SEW. REPLACEMENT STA. 7+80 TO 19+00. ALL OTHER AREAS SHALL BE FINE GRADED, WITHOUT SEEDING OR SOD. THE CONTRACTOR SHALL WATER, FERTILIZE AND MAINTAIN THE SODDED AREAS FOR A PERIOD OF NO LESS THAN 72 HOURS. EACH DAY, THE CONTRACTOR SHALL WATER THE SOD UNTIL THE PROPERTY OWNER ASSUMES RESPONSIBILITY OF THE SODDED AREA. SODDING SHALL BE SOLID SOD OF THE PREDOMINANT GRASS IN THE AREA. SOD SHALL BE LAID END TO END AND SIDE TO SIDE.
- CONTRACTOR SHALL HAVE TU ELECTRIC SUPPORT POWER POLES DURING CONSTRUCTION OF SEWER LINE.
- CONTRACTOR SHALL FIELD LOCATE ALL KNOWN UTILITY CROSSINGS AT PROPOSED SEWER LINE TO DETERMINE IF CONFLICT EXISTS. IF CONFLICT EXISTS CONTRACTOR SHALL ADJUST UTILITY TO CLEAR PROPOSED SEWER LINE.
- CONTRACTOR SHALL REMOVE TREES AS SHOWN ON THE PLANS. REMOVAL SHALL INCLUDE REMOVING THE ROOTS. TREES SHALL BE DISPOSED OFF SITE OR MULCHED ON SITE AND SPREAD WITHIN THE EASEMENT.
- CONTRACTOR SHALL ABANDON EXISTING MANHOLES AS SHOWN IN THE PLAN. ABANDON SHALL INCLUDE PLACING 2000 PSI (N.C.T.C.O.G. ITEM 7.4.5 CLASS B) CONCRETE 12 INCHES ABOVE SPRING LINE OF PIPES, BACKFILLING IN 8 INCH LIFTS WITH EXCAVATED OR IMPORTED MATERIAL. REMOVE RING, COVER AND CONE, BACKFILL TOP 12 INCHES WITH IMPORTED TOPSOIL. (M.H. H2).
- ALL FENCE REMOVED FOR CONVENIENCE OF CONSTRUCTION SHALL BE RECONSTRUCTED. ALL POST SHALL BE SET IN NEW CONCRETE. ALL TIES SHALL BE NEW.
- CONCRETE PAVEMENT REPLACEMENT SHALL BE N.C.T.C.O.G. ITEM 7.4.5, CLASS A CONCRETE, 3000 PSI COMPRESSIVE STRENGTH @ 28 DAYS MINIMUM 5 SACK CEMENT PER CUBIC YARD. MAXIMUM W/C = 6.5 REINFORCING SHALL BE NO. 3 DEFORMED BARS ON 18 INCH CENTERS.
- MANHOLES SHALL BE PLUMB TO WITHIN 1" FOR EVERY 5 FT. OF VERTICAL DEPTH. PRECAST OR IN PLACE.
- MANHOLES OVER 12 FT. DEEP SHALL HAVE NO. 3 BARS @ 18" O.C.E.W. AND IF NOT POURED MONOLITHIC COLD JOINTS SHALL HAVE A FORMED GROOVE OR REINFORCING DOWELS FOR SHEAR PROTECTION; CONSTRUCTION JOINTS SHALL HAVE HEAVY DUTY P.V.C. WATERSTOP 9-INCHES IN THE DIRECTION PERPENDICULAR TO THE JOINT AS MANUFACTURED BY B.F. GOODRICH OR APPROVED EQUAL.
- CONTRACTOR SHALL HAVE A LICENSED LANDSCAPE FIRM TRIM EXISTING TREES FOR CONSTRUCTION PURPOSES.
- EXISTING FIRE HYDRANTS AND VALVES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTORS.
- ALL VALVES SHALL BE RESILIENT SEATED WEDGE.
- ACCEPTABLE FIRE HYDRANTS ARE MUELLER, CLOW & WATEROUS.
- LOCATE FIRE HYDRANTS SIX FEET BEHIND BACK OF CURB OR AS DIRECTED BY THE TOWN INSPECTOR.
- TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO BUSINESS SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL FURNISH, PLACE, MAINTAIN AND REMOVE BARRICADES IN ACCORDANCE WITH THE TxDOT'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL SIGNS REMOVED FOR CONSTRUCTION SHALL BE REESTABLISHED BY THE CONTRACTOR. POSTS SET IN CONCRETE SHALL HAVE EXISTING CONCRETE REMOVED AND NEW CONCRETE PLACED.
- PRE CAST MANHOLES ARE NOT ACCEPTABLE. ALL MANHOLES SHALL BE CAST IN PLACE.

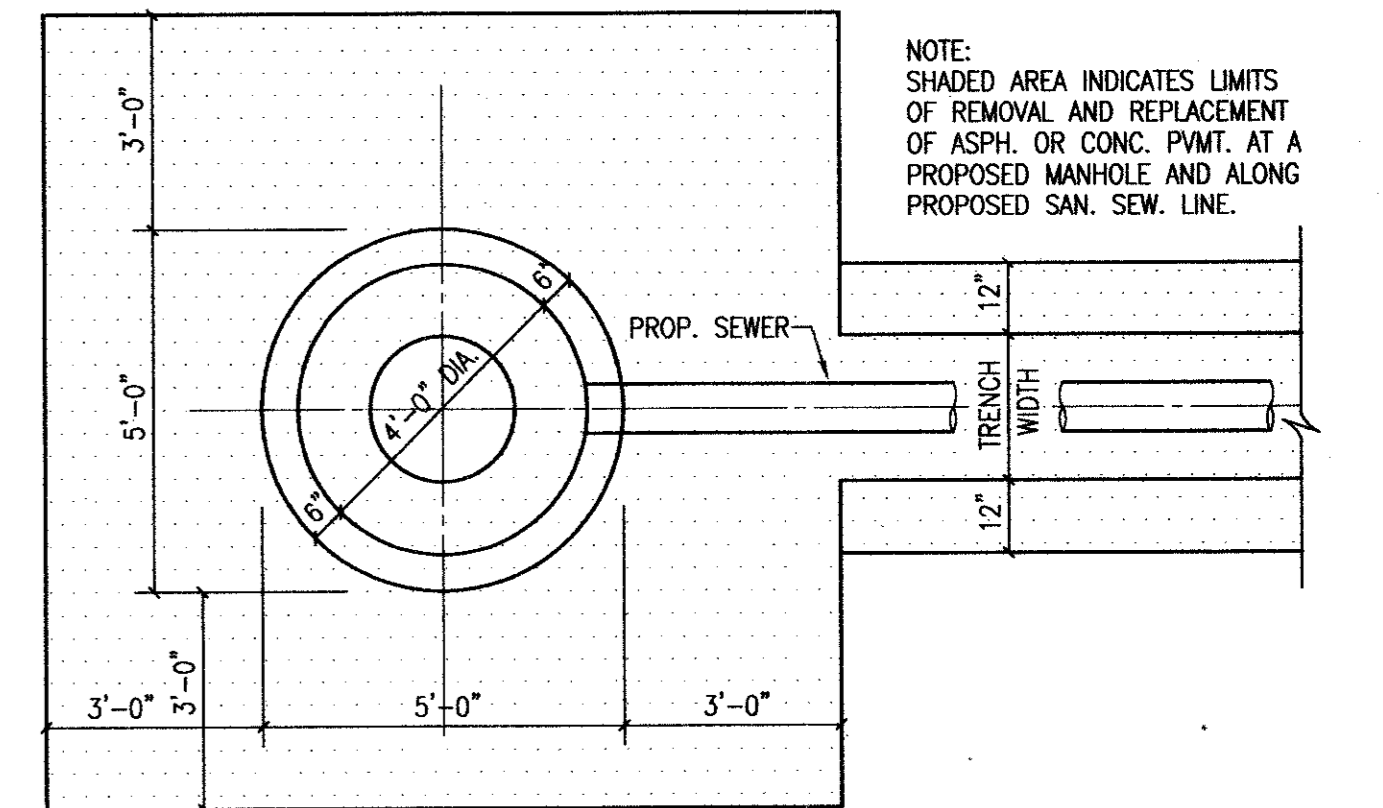


FOR DEPTHS ≤ 12 FT. MONOLITHIC POUR. CRUSHED STONE GRADE 4

| SIEVE SIZE | % RETAINED |
|------------|------------|
| 1-1/2 INCH | 0          |
| 1 INCH     | 0-5        |
| 1/2 INCH   | 45-75      |
| NO. 4      | 90-100     |
| NO. 8      | 95-100     |

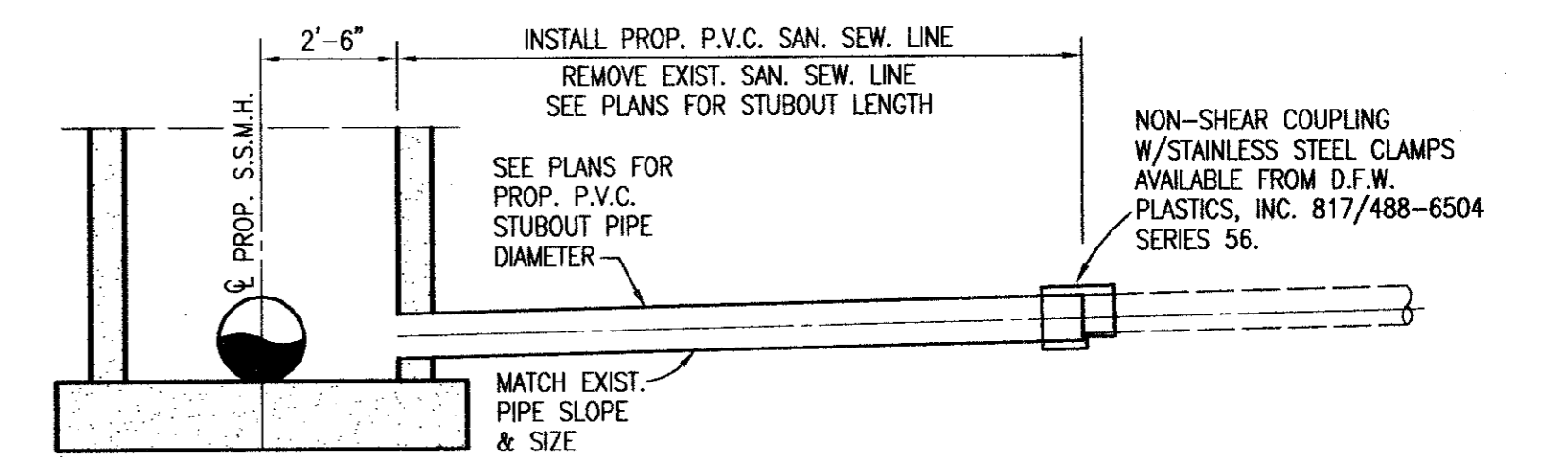


**STANDARD CAST IN PLACE MANHOLE**



**LIMITS OF REMOVAL AND REPLACING OF PAVEMENT**

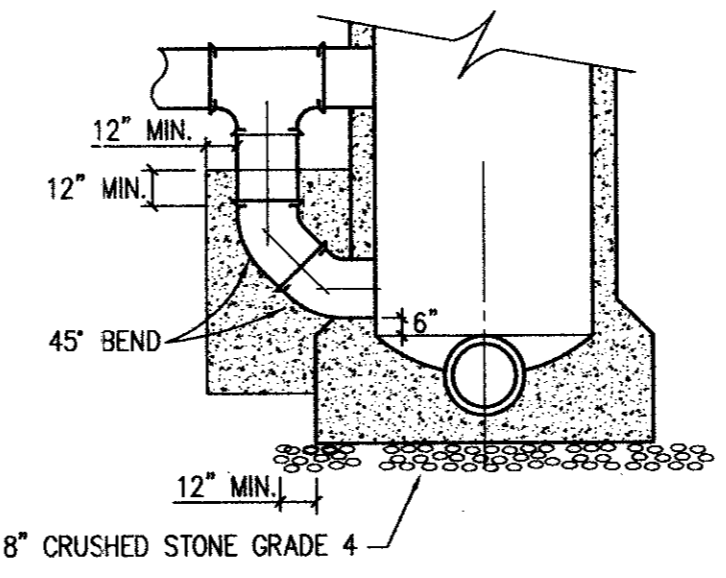
NO SCALE



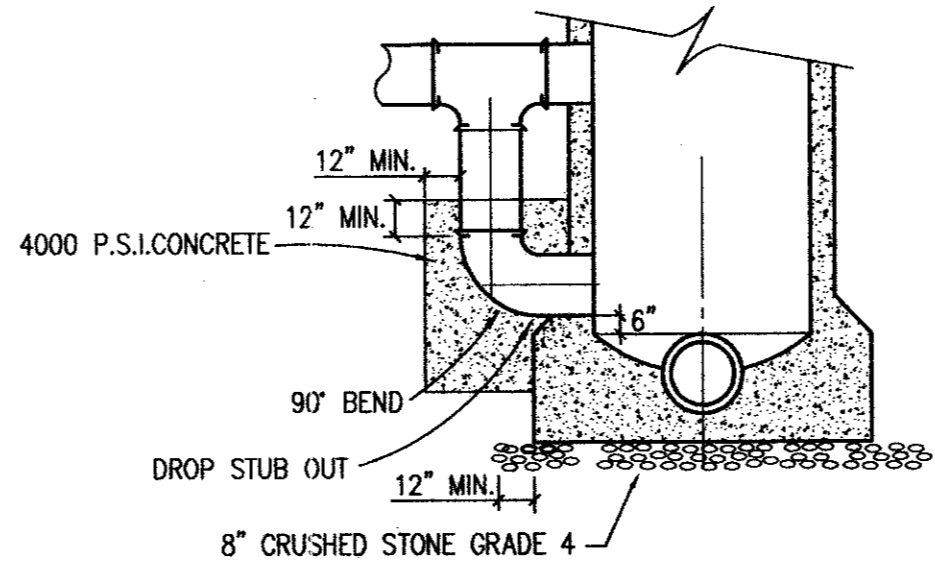
**STUBOUT CONNECTION DETAIL 6" & 8" LINES**

NO SCALE

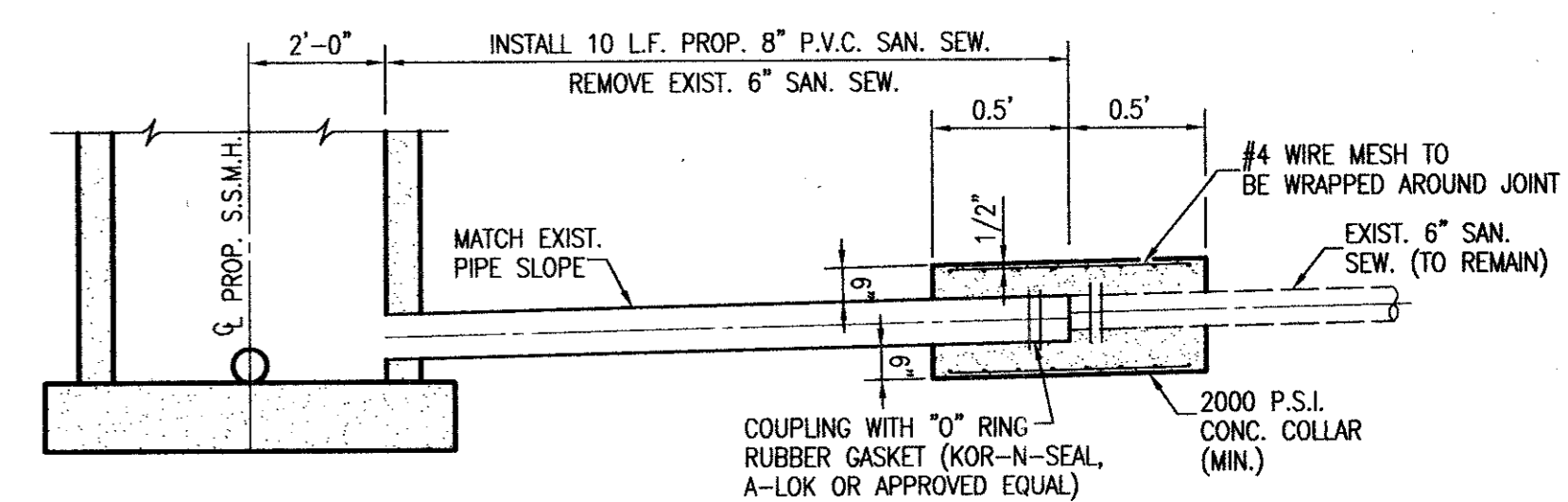
NOTE: MATCH SOFFITS UPSTREAM OF MANHOLE. MATCH FLOWLINES DOWNSTREAM OF MANHOLE.



**MANHOLE W/45° DROP CONNECTION**



**MANHOLE W/90° DROP CONNECTION**



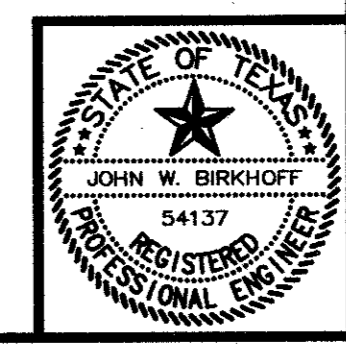
**STUBOUT CONNECTION DETAIL 10" & LARGER**

NOT TO SCALE

NOTE: MATCH SOFFITS UPSTREAM OF MANHOLE. MATCH FLOWLINES DOWNSTREAM OF MANHOLE.

REVISED TO CONFORM TO CONSTRUCTION RECORDS BY JWB DATE 8/26/97

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
*John W. Birkhoff*  
DATE: 11/20/76



**TOWN OF ADDISON, TEXAS**

**DETAIL & GENERAL NOTES SHEET**

**SHIMEK, JACOBS & FINKLEA, L.L.P.**  
CONSULTING ENGINEERS  
Dallas, Texas

|                     |                  |              |
|---------------------|------------------|--------------|
| DESIGNED BY: J.W.B. | PROJECT: 96162   | SHEET NO. 12 |
| DRAWN BY: R.J.L.    | DATE: NOV., 1996 | OF 12 SHEETS |