

T O W N O F  
**ADDISON**

**ADDISON, TEXAS**  
**LINDBERGH DRIVE WATERLINE**  
**REPLACEMENT**  
(FROM MIDWAY RD. TO APPROXIMATELY 1,350 L.F. EAST)

R. SCOTT WHEELER  
*Mayor*

GLYNDA TURNER  
*Mayor Pro-Tem*

DIANE MALLORY  
*Councilman*

BOB BARRETT  
*Councilman*

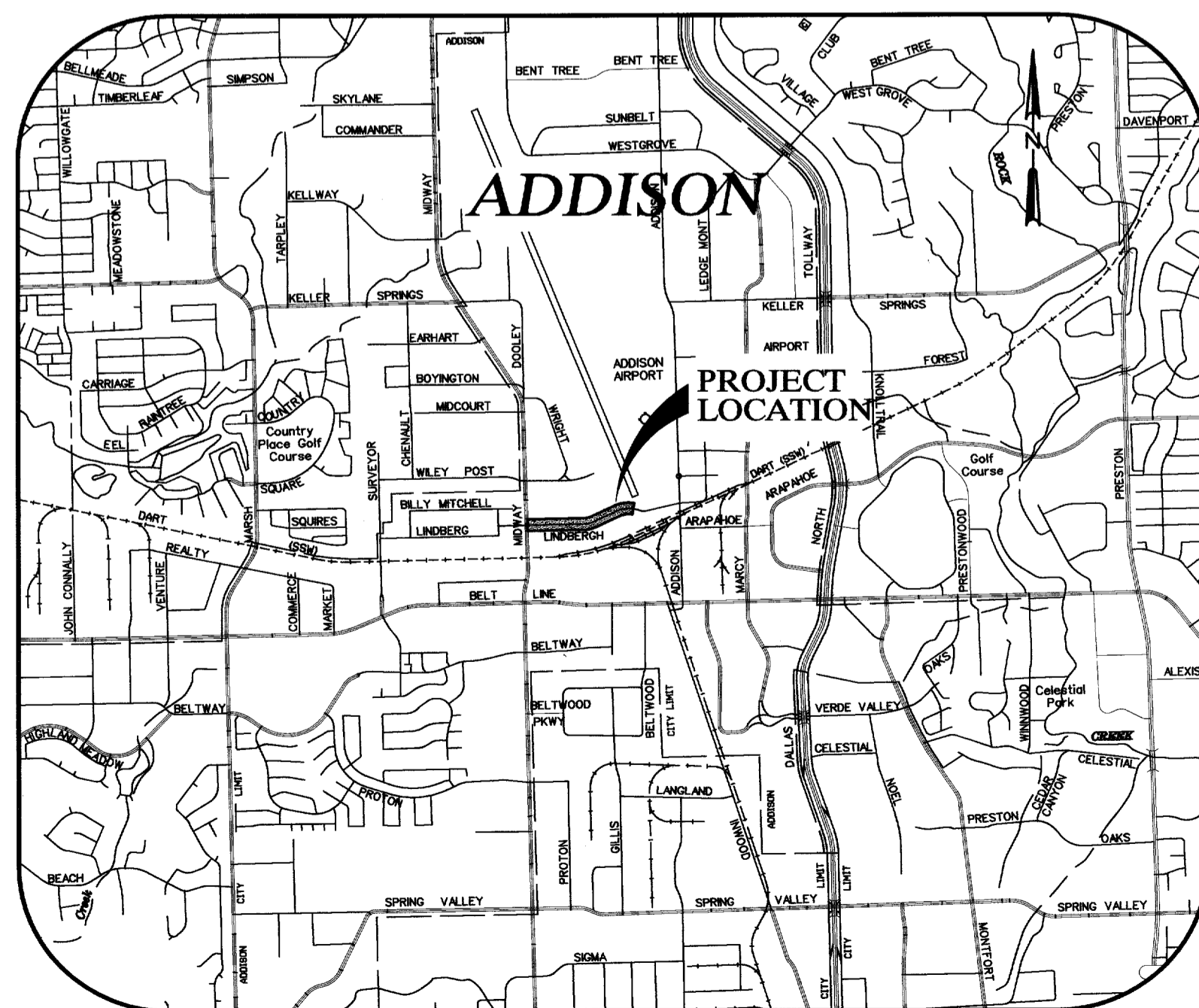
FRANK R. KLEIN  
*Councilman*

FREDRICK M. SILVER  
*Councilman*

RON WHITEHEAD  
*City Manager*

CATHY WAYS  
*Deputy Mayor Pro-Tem*

MIKE MURPHY  
*Director of Public Works*



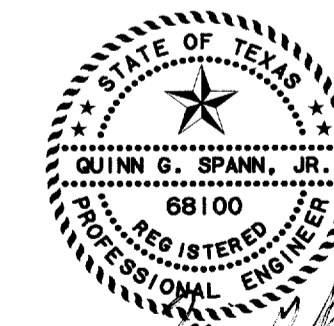
PROJECT LOCATION

DECEMBER 2001



GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC.  
11117 SHADY TRAIL  
DALLAS, TEXAS 75229  
(972) 620-1255  
DALLAS - FT. WORTH - HOUSTON - MIDLAND

SHEET 1	COVER SHEET
SHEET 2	GENERAL NOTES & MISCELLANEOUS DETAILS
SHEET 3	MISCELLANEOUS DETAILS
SHEET 4	TOWN OF ADDISON STD. DETAIL
SHEET 5	WATER PLAN, STA 1+00 TO STA 8+50
SHEET 6	WATER PLAN, STA 8+50 TO STA 15+22



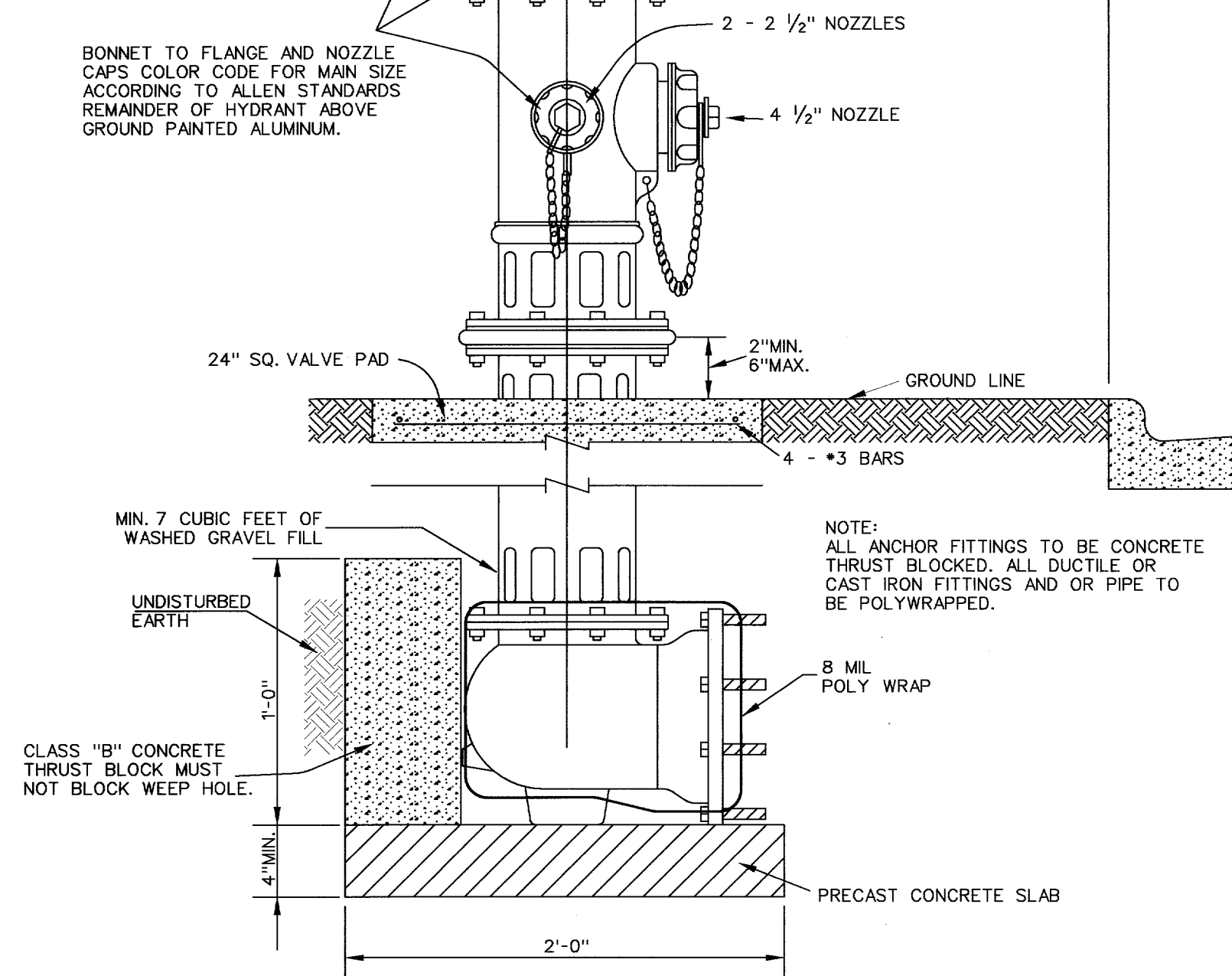
**RECORD DRAWING**  
The improvements shown on this drawing were prepared from periodic observations made by the Engineer, periodic observations made by the Project Representative, information provided by serial and/or on the ground surveys, information provided by the Owner and/or information provided by the General Contractor. To the best of our knowledge, the information provided herein represents the improvements as constructed.  
DATE: 8/09/2002

INDEX OF SHEETS

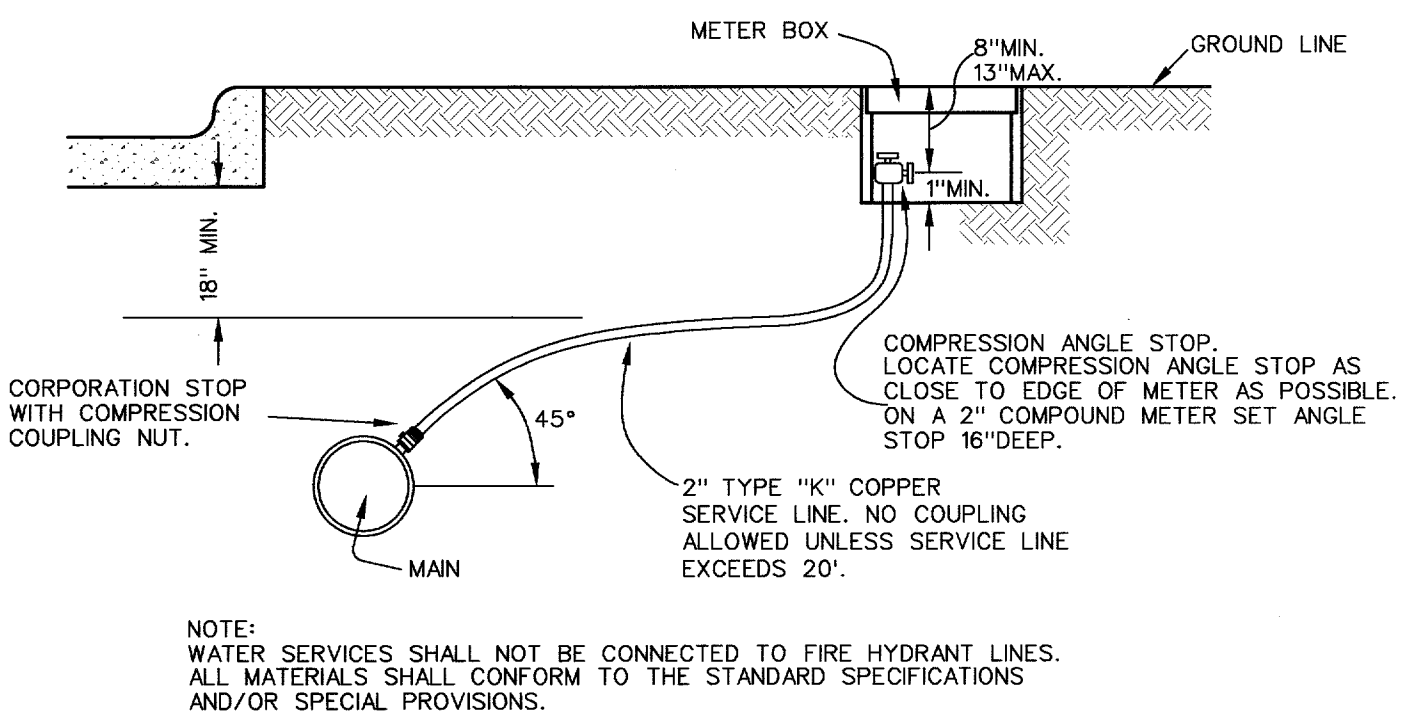
**ADDISON GENERAL CONSTRUCTION NOTES**

- UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE & FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND FACILITIES WHICH ARE NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE UTILITY OWNERS TO ARRANGE FOR EXACT LOCATIONS AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.  
  
 UTILITY TELEPHONE #  
 TXU ELECTRIC & GAS 1-800-344-8377  
 CTE TELEPHONE 1-800-344-8377  
 TELE-CABLE (214) 578-7573  
 DIG-TESS (214) 578-7573  
 SOUTHWESTERN BELL TELEPHONE 1-800-395-0440  
 AT&T 1-800-245-4545
- THE CONTRACTOR SHALL MAINTAIN EXISTING SERVICES AND EXISTING WATER MAINS THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN FIRE EMERGENCY VEHICLE ACCESS TO FIRE HYDRANTS THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE DRIVEWAY OPENING FOR INGRESS/EGRESS OF VEHICULAR TRAFFIC TO/FROM PRIVATE PROPERTY THROUGHOUT CONSTRUCTION.
- EXISTING FIRE HYDRANTS AND VALVE STACKS AND CAPS REMOVED DURING CONSTRUCTION SHALL BE SALVAGED AND DELIVERED TO TOWN OF ADDISON PUBLIC WORKS YARD BY THE CONTRACTOR. (NO SEPARATE PAY ITEM)
- IRRIGATION AND SPRINKLER SYSTEM NOTES:  
 A) THE CONTRACTOR SHALL HIRE A LICENSED IRRIGATOR AS A SUBCONTRACTOR TO OVERSEE ALL ACTIVITIES THAT IMPACT EXISTING, OR PROPOSED IRRIGATION SYSTEMS.  
 B) PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES, EXISTING IRRIGATION SYSTEMS SHALL BE TURNED ON, THE LOCATION OF THE HEADS, VALVES, AND PIPE SHALL BE MARKED WHERE DEMOLITION OR CONSTRUCTION WILL IMPACT THE SYSTEM. DEFICIENCIES IN THE SYSTEM SHALL BE NOTED AND REPORTED TO THE SYSTEM OWNER. A PHOTOGRAPHIC OR VIDEO RECORD SHALL BE MADE IF APPROPRIATE.  
 C) PIPING SHALL BE CUT, CAPPED AND MARKED AT THE LIMITS OF CONSTRUCTION.  
 D) AT THE COMPLETION OF CONSTRUCTION, THE LICENSED IRRIGATOR SHALL RESTORE AND TEST THE IRRIGATION SYSTEM FOR PROPER FUNCTION. THE TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE TOWN OF ADDISON'S PUBLIC WORKS INSPECTOR, AND THE SYSTEM OWNER.  
 E) ALL COST ASSOCIATED WITH SPRINKLER SYSTEM REPAIR IS SUBSIDIARY TO THE PROJECT.
- CONTRACTOR SHALL CONFORM WITH THE "NORTH CENTRAL TEXAS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (NCTSSPWC), INCLUDING ALL AMENDMENTS, THE TOWN OF ADDISON SPECIAL PROVISIONS TO NCTSSPWC, AND ANY TOWN OF ADDISON STANDARD CONSTRUCTION DETAILS.
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF FOUR (4) FEET.
- ALL BENDS AND FIRE HYDRANTS SHALL INCLUDE RESTRAINED TYPE FITTINGS WITH RETAINER GLANDS IN ADDITION TO THRUST BLOCKING. ALL FIRE HYDRANTS SHALL BE INSTALLED PER STANDARD DETAIL.
- ABANDON ALL VALVES ON KILLED WATER MAINS PER VALVE ABANDONMENT DETAIL.
- WATER MAIN SHALL BE AWWA C-909, CL 150.
- ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE TOWN OF ADDISON ENGINEERING DEPARTMENT FOR APPROVAL PRIOR TO BEGINNING WORK. TWO WAY TRAFFIC MUST BE MAINTAINED DURING CONSTRUCTION.
- ALL STREET AND DRIVEWAY PAVEMENT SHALL BE 8-INCH, 4000 PSI CONCRETE WITH #3 BARS ON 18-INCH CENTERS BOTH WAYS.
- ALL PORTIONS OF EXISTING DRIVEWAY THAT ARE TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. REMOVAL OF ANY CONCRETE THAT IS NOT SHOWN TO BE REMOVED SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN OF ADDISON.
- ALL WATER SERVICE LINES THAT EXTEND TO THE NORTH SIDE OF THE R.O.W. SHALL BE BORED UNDERNEATH THE EXISTING PAVEMENT.
- THE CONTRACTOR SHALL CONNECT ALL NEW SERVICE LINES TO THE EXISTING WATER METERS AND VAULTS. (NO SEPARATE PAY ITEM).
- ALL CONCRETE PAVEMENT WITHIN THE PROJECT LIMITS SHALL BE SAWCUT. ALL SAWCUTS SHALL BE FULL DEPTH.
- NO TREES SHALL BE CUT DOWN OR TRIMMED WITHOUT PRIOR WRITTEN APPROVAL FROM THE TOWN OF ADDISON. ANY WORK DONE TO THE TREE OR WITHIN THE TREE DRIFLINE SHALL BE CONDUCTED IN THE PRESENCE OF THE TOWN OF ADDISON REPRESENTATIVE.
- THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITY POLES, LIGHT POLES, SIGNALS, AND GUY WIRES. (NO SEPARATE PAY ITEM)
- THE CONTRACTOR SHALL FURNISH, INSTALL & MAINTAIN ALL EROSION CONTROL DEVICES AS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING MAILBOXES. TEMPORARY MAILBOXES SHALL BE INSTALLED BY THE CONTRACTOR AT ALL LOCATIONS WHERE EXISTING MAILBOXES WILL BE TEMPORARILY REMOVED DURING CONSTRUCTION. MAILBOXES AND MAIL SERVICE SHALL BE MAINTAINED THROUGHOUT THE PROJECT. (NO SEPARATE PAY ITEM)
- AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED, WHERE ONE DOES NOT CURRENTLY EXIST, ON ALL WATER SERVICES AFTER THE METER, LOCATED IN A SEPARATE BOX WITH A MINIMUM OF AN EIGHTEEN (18) INCH NIPPLE BETWEEN THE METER AND THE ASSEMBLY FOR TESTING AND REPAIRS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE ASSEMBLY TESTED UPON INSTALLATION BY A CERTIFIED TESTER, WHO SHALL PROVIDE THE ORIGINAL OF THE TEST REPORT TO THE TOWN OF ADDISON UTILITY DIVISION PRIOR TO FINAL, CONTINUOUS CONNECTION TO THE TOWN'S WATER SUPPLY.
- ALL WATER METERS SHALL HAVE A BACKFLOW PREVENTION ASSEMBLY INSTALLED ON THE PROPERTY OWNER SIDE OF THE WATER METER. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE USC CERTIFIED.
- CONSTRUCTION STAKING SHALL BE SUBSIDIARY TO THE WATERLINE CONSTRUCTION. (NO SEPARATE PAY ITEM).
- ALL BARRICADES AND SIGNS SHALL BE PLACED WITH THE TOWN OF ADDISON'S APPROVAL PRIOR TO PLACEMENT.
- BEFORE THE NEWLY CONSTRUCTED WATER MAIN IS PERMITTED TO BE PLACED INTO SERVICE, IT SHALL BE PRESSURE TESTED, DISINFECTED AND TESTED FOR BACTERIA AT THE CONTRACTOR'S EXPENSE. TESTING IS TO BE ACCOMPLISHED BY A TOWN OF ADDISON APPROVED LAB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DISINFECTION AND TESTING.
- STAGING AND STORAGE FOR THIS PROJECT SHALL BE APPROVED BY THE TOWN OF ADDISON PRIOR TO ANY CONSTRUCTION ACTIVITY. AT NO TIME WILL PUBLIC RIGHT-OF-WAY BE USED FOR STAGING OR STORAGE.
- ALL NEW DUMMY AND EXPANSION JOINTS SHALL MATCH EXISTING JOINT LOCATIONS
- CONTRACTOR SHALL VIDEO TAPE THE SITE IN ITS ENTIRETY PRIOR TO ANY CONSTRUCTION. (NO SEPARATE PAY ITEM)
- CONTRACTOR SHALL SUPPLY ASBUILT DRAWINGS TO THE TOWN OF ADDISON. DIMENSIONS AND LENGTH OF PIPE FROM BENDS AND VALVES SHALL BE LISTED.

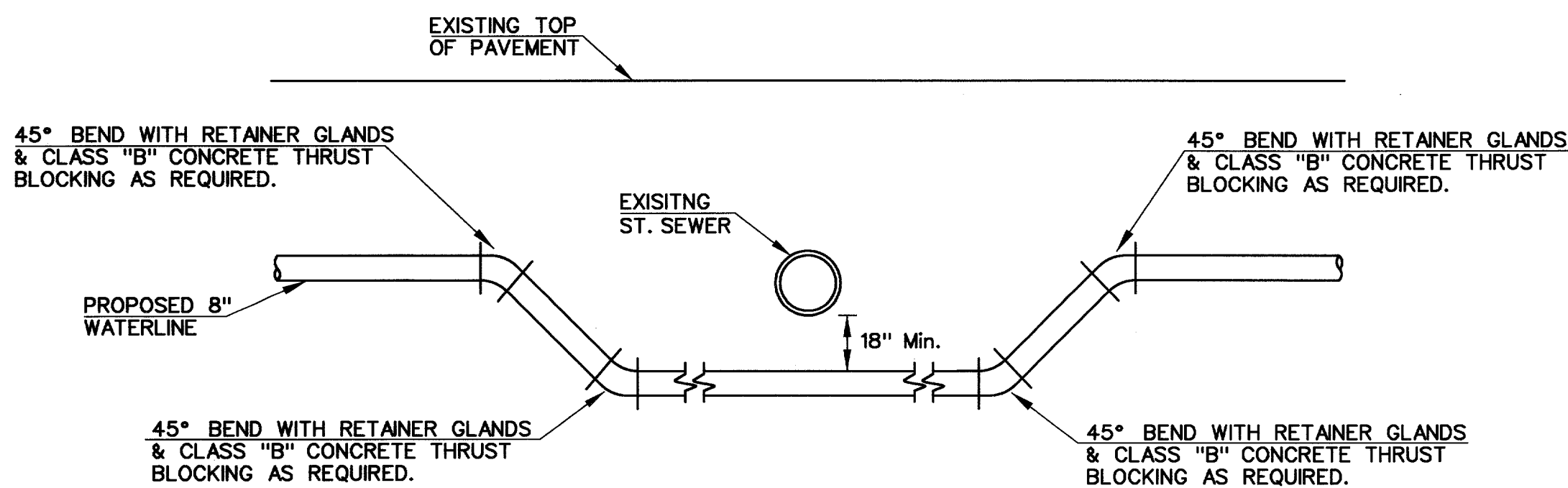
NOTE: MUELLER "CENTURIAN" OR EQUAL. IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.



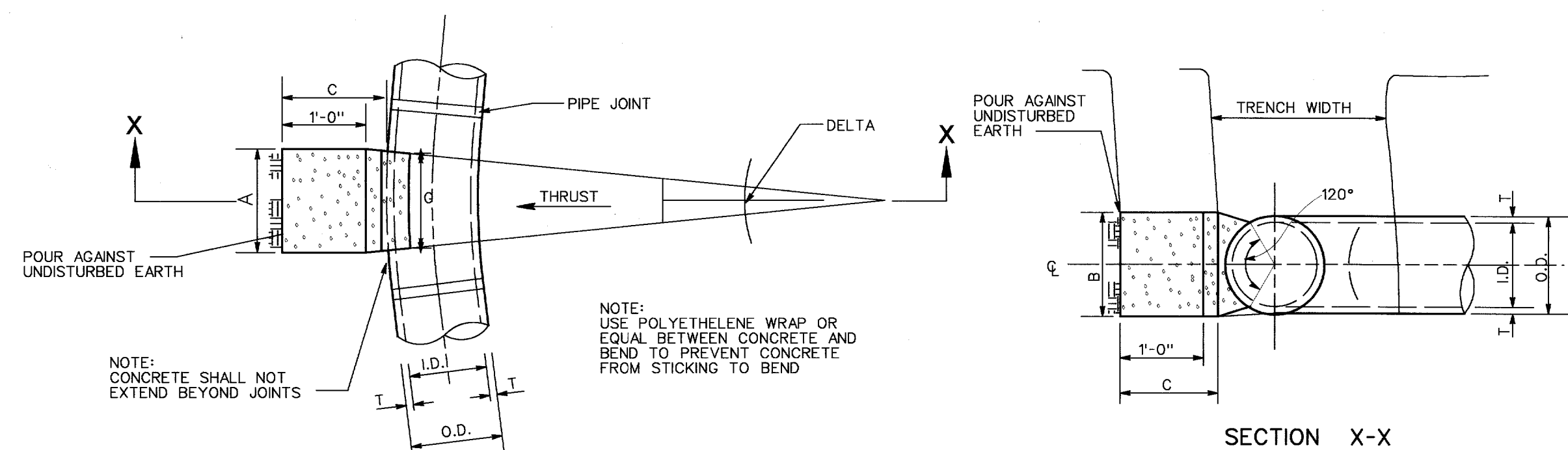
**TYPICAL FIRE HYDRANT INSTALLATION**  
NTS



**TYPICAL SERVICE CONNECTION WITH METER BOX**  
NTS

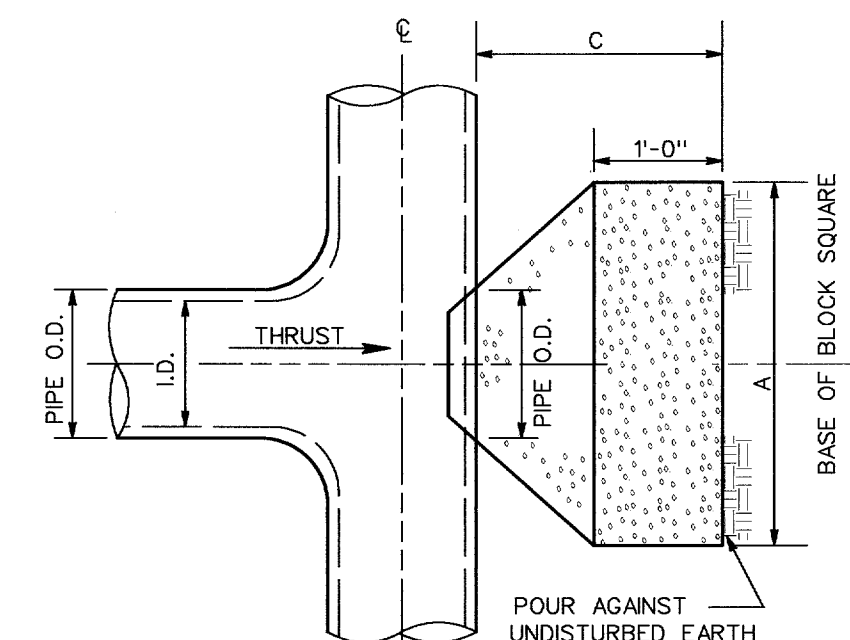


**WATER LINE RELOCATION AT STORM SEWER CROSSING**  
TYPICAL SECTION  
NTS

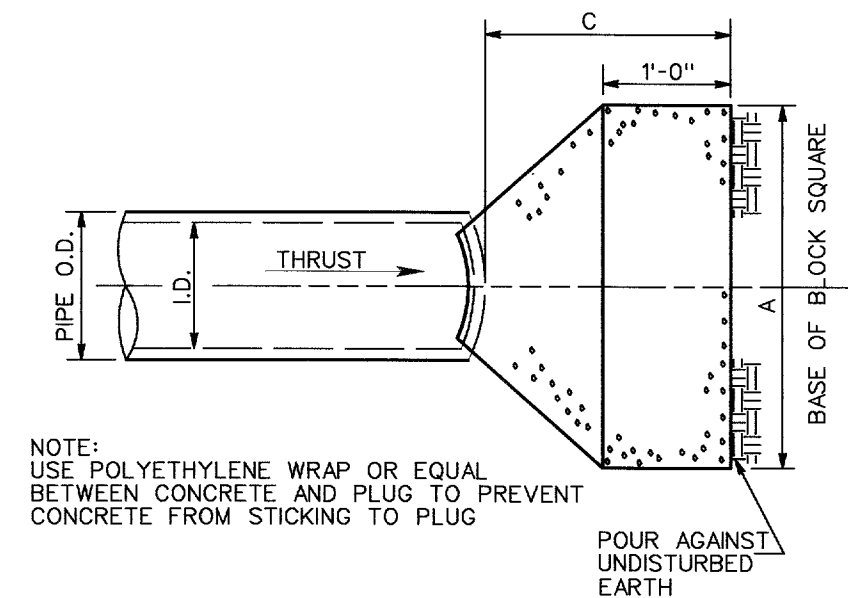


**HORIZONTAL THRUST BLOCK**

HORIZONTAL BEND THRUST BLOCK																		
		Δ - 11.25°			Δ - 22.50°			Δ - 45°			Δ - 90°							
I.D. (IN)	C FT.	A FT.	B FT.	VOL. C.Y.	I.D. (IN)	C FT.	A FT.	B FT.	VOL. C.Y.	I.D. (IN)	C FT.	A FT.	B FT.	VOL. C.Y.				
6,8	1.5	0.9	0.4	1.0	1.5	0.1	0.8	1.5	1.5	0.1	1.5	2.0	2.0	0.2	2.7	5.0	1.5	0.4



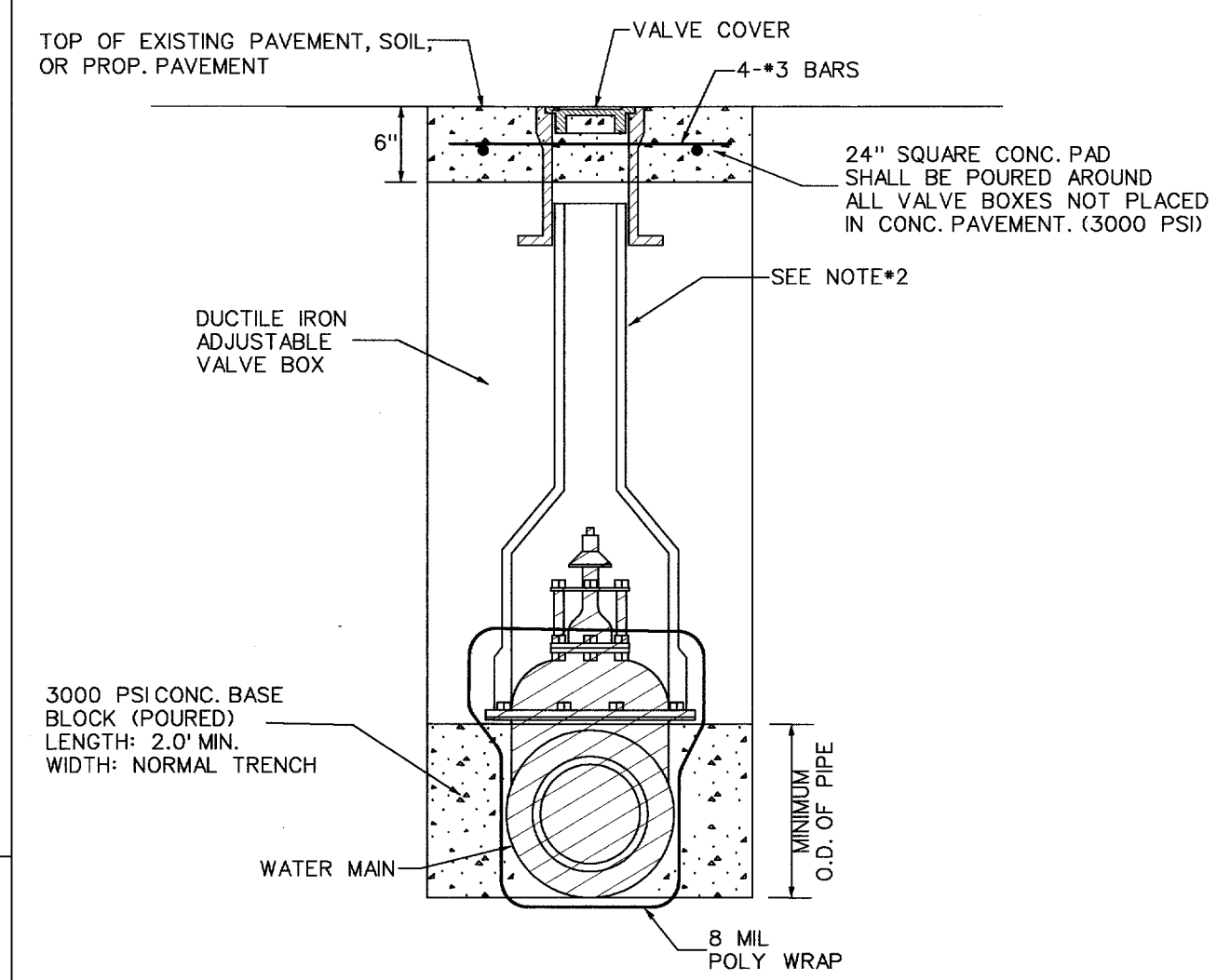
PLUG & TEE THRUST BLOCK			
I.D. (IN)	C FT.	A FT.	VOL. C.Y.
6,8	1.5	2.5	0.3
10,12	1.5	3.5	0.6
16,18	2.0	5.5	1.6
20	2.0	6.0	1.9
24	2.5	7.0	3.1
30	3.0	7.5	4.1



**PLAN OF PLUG THRUST BLOCK**  
NTS

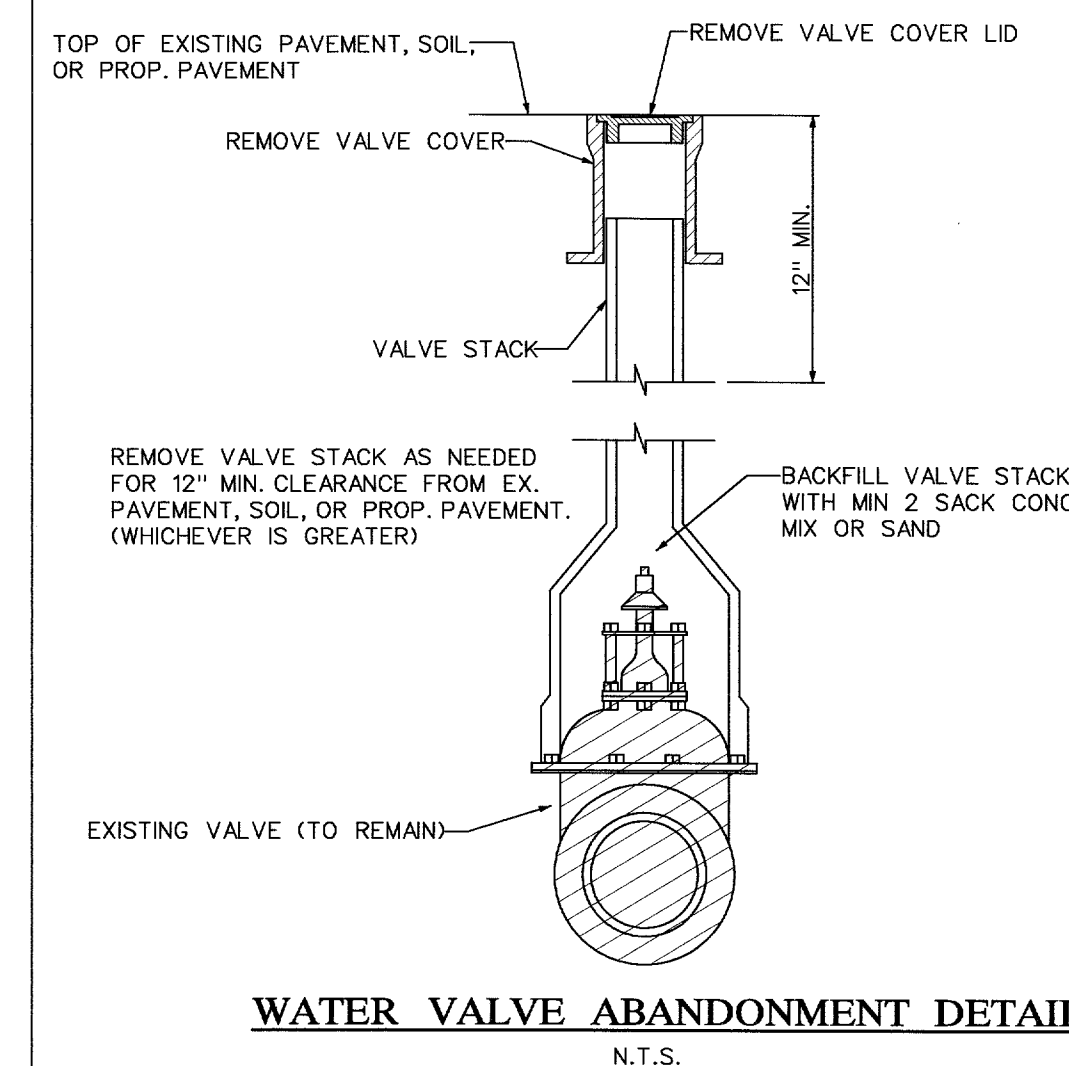
- GENERAL NOTES FOR ALL THRUST BLOCKS
- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 P.S.I. (EXCEPT 30" I.D. - 150 P.S.I.)
  - CONCRETE FOR BLOCKING SHALL BE CLASS B, 2000 PSI CONCRETE.
  - DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE C.M. THE NET VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN IN TABLES.

**TEE THRUST BLOCKING**  
NTS

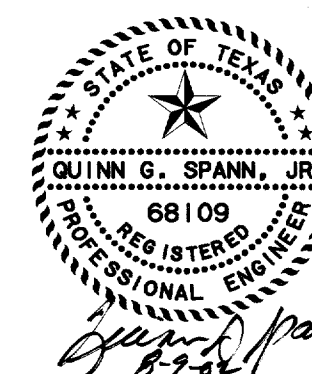


- NOTES:
- GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509-80 OR LATEST THEREOF. ALL VALVES SHALL BE "MUELLER" OR APPROVED EQUAL.
  - A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THAT ITS OPERATING NUT IS LOCATED IN EXCESS OF 4' BELOW THE TOP OF THE VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF VALVE BOX LID. MANUFACTURED VALVE STACK DUCTILE IRON PIPE TO BE USED FOR EXTENSION GREATER THAN 4'. BELL END OF STACK TO BE FITTED OVER VALVE. VALVE AND VALVE STACK IS TO BE POLY WRAPPED.
  - VALVES SHALL BE OF DUCTILE IRON W/RUBBER ENCAPSULATED DISK. BOLTS SHALL BE STAINLESS STEEL OF SAME SIZE ON EACH VALVE.
  - VALVE COVERS SHALL BE MARKED "WATER"

**TYPICAL VALVE SETTING & BOX**  
NTS



**WATER VALVE ABANDONMENT DETAIL**  
NTS

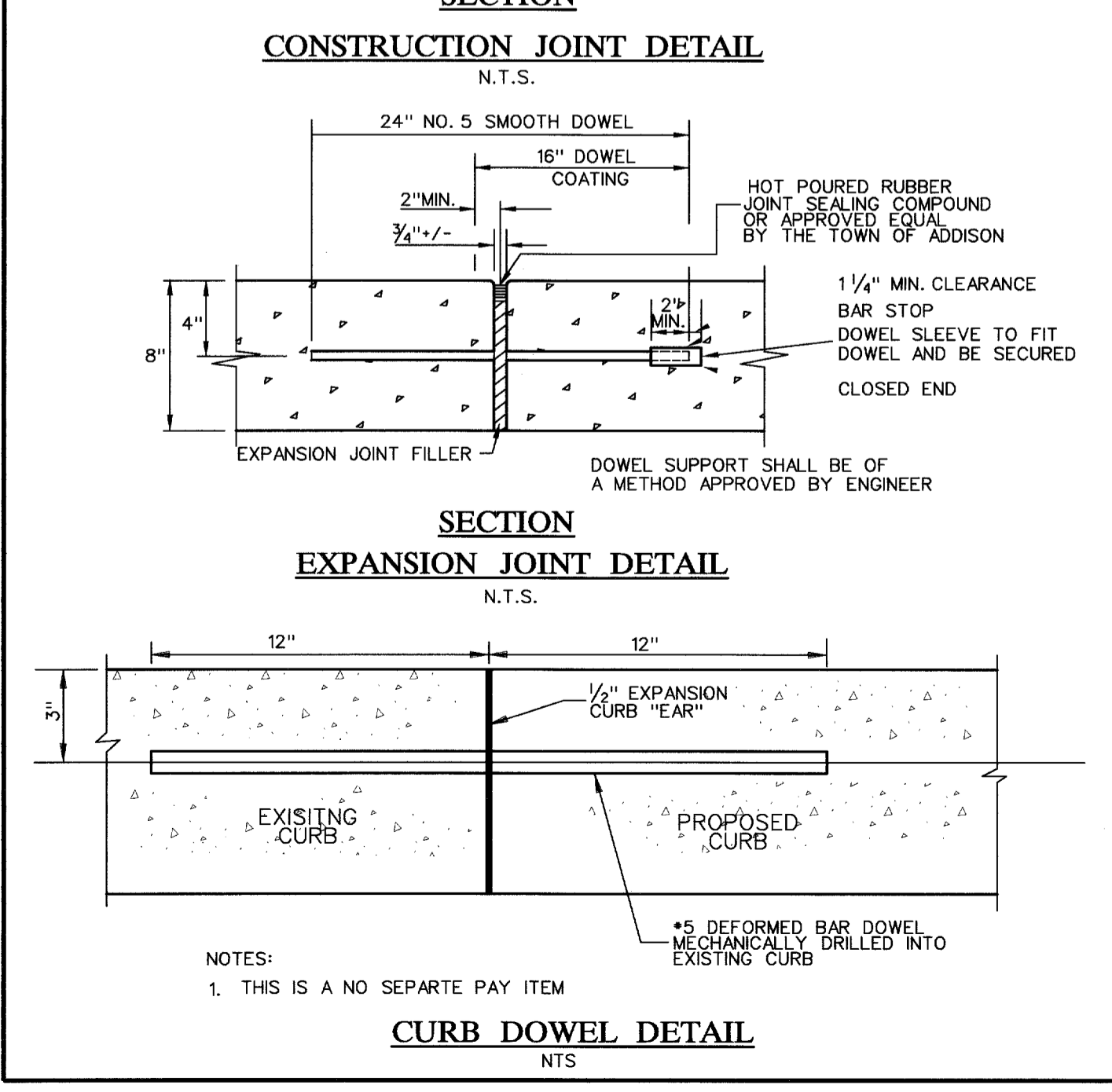
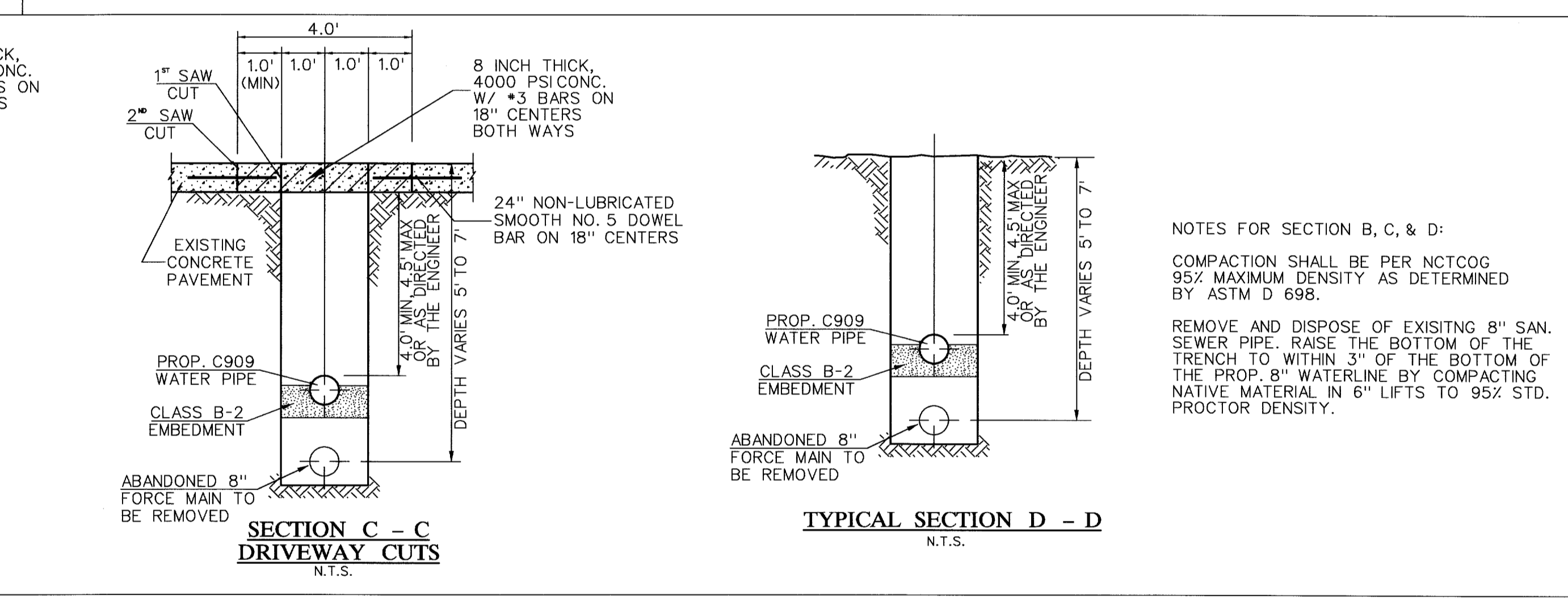
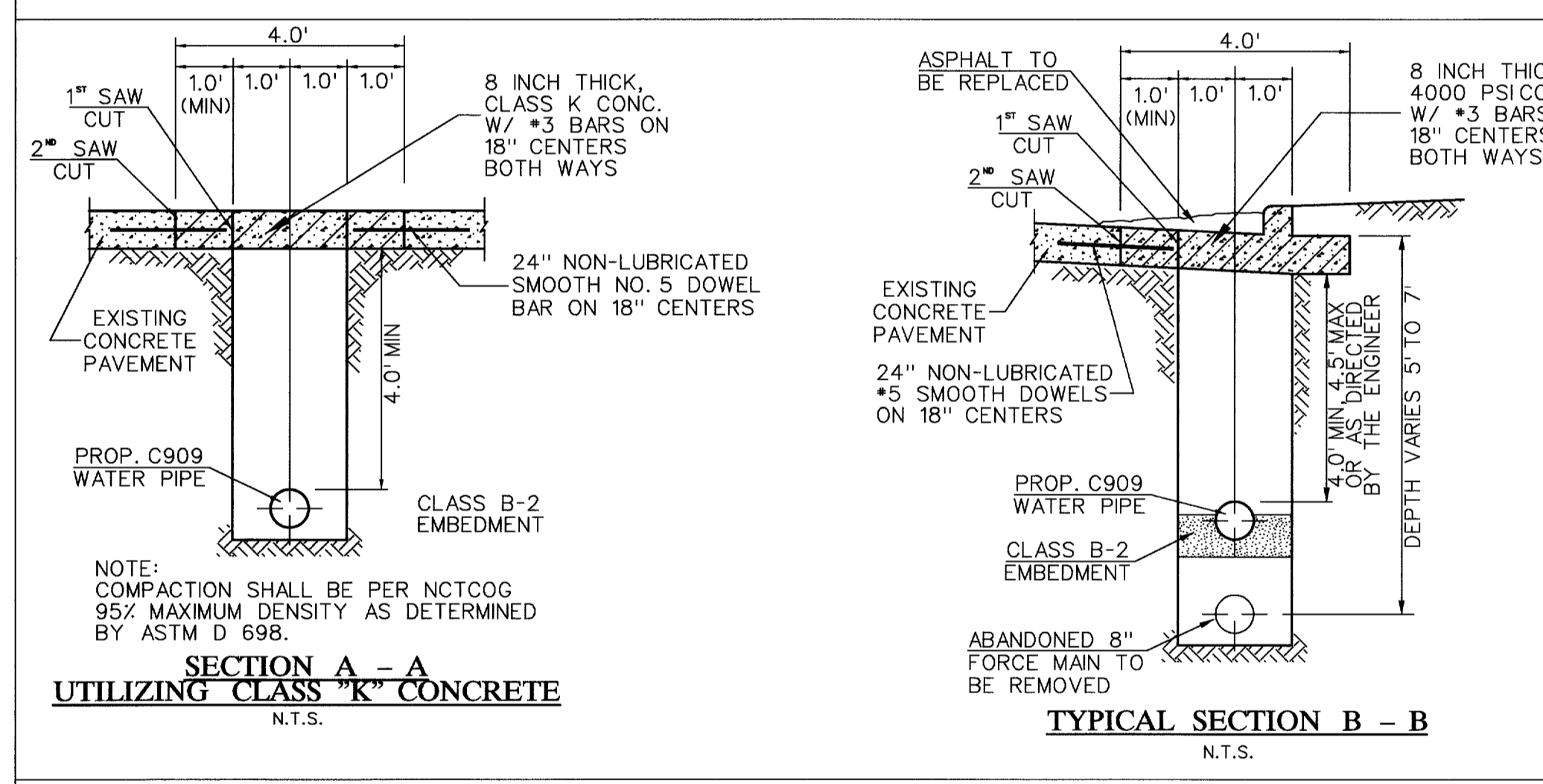
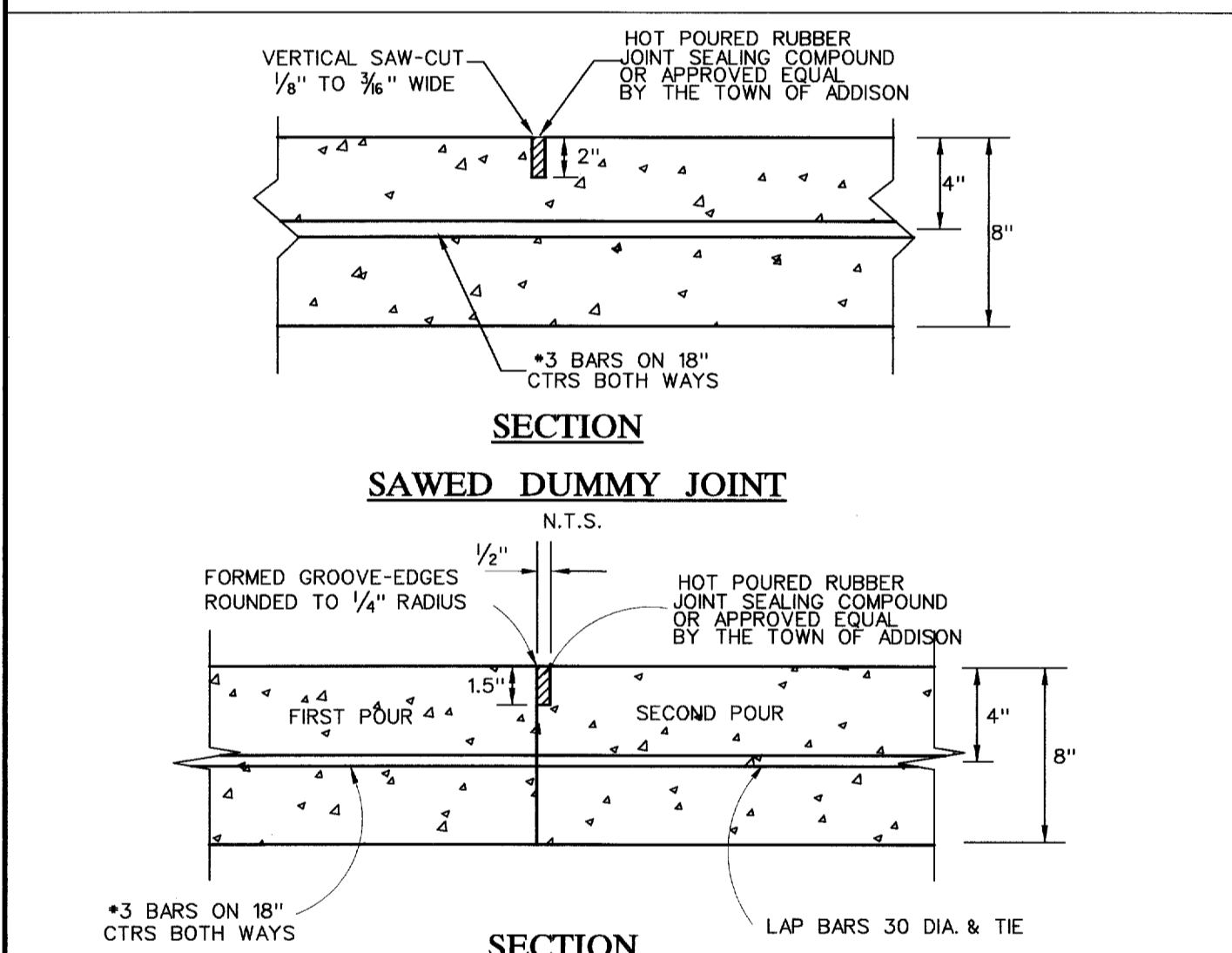
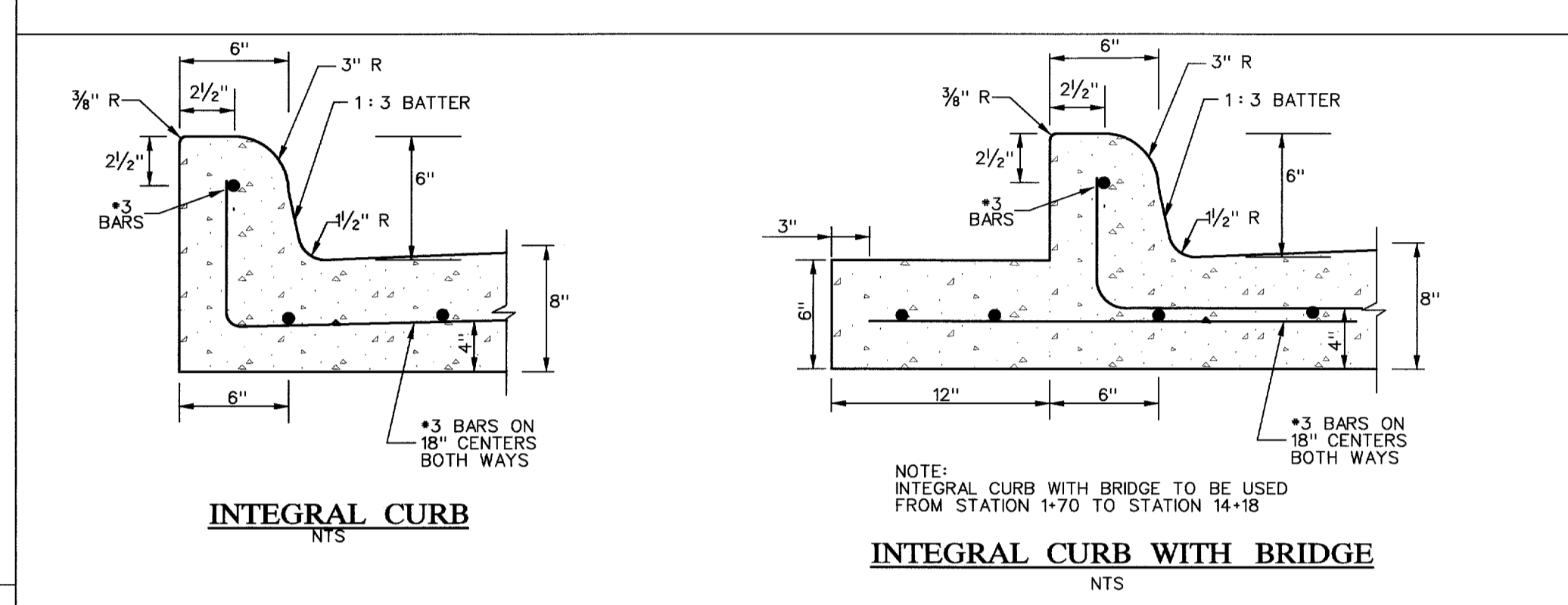
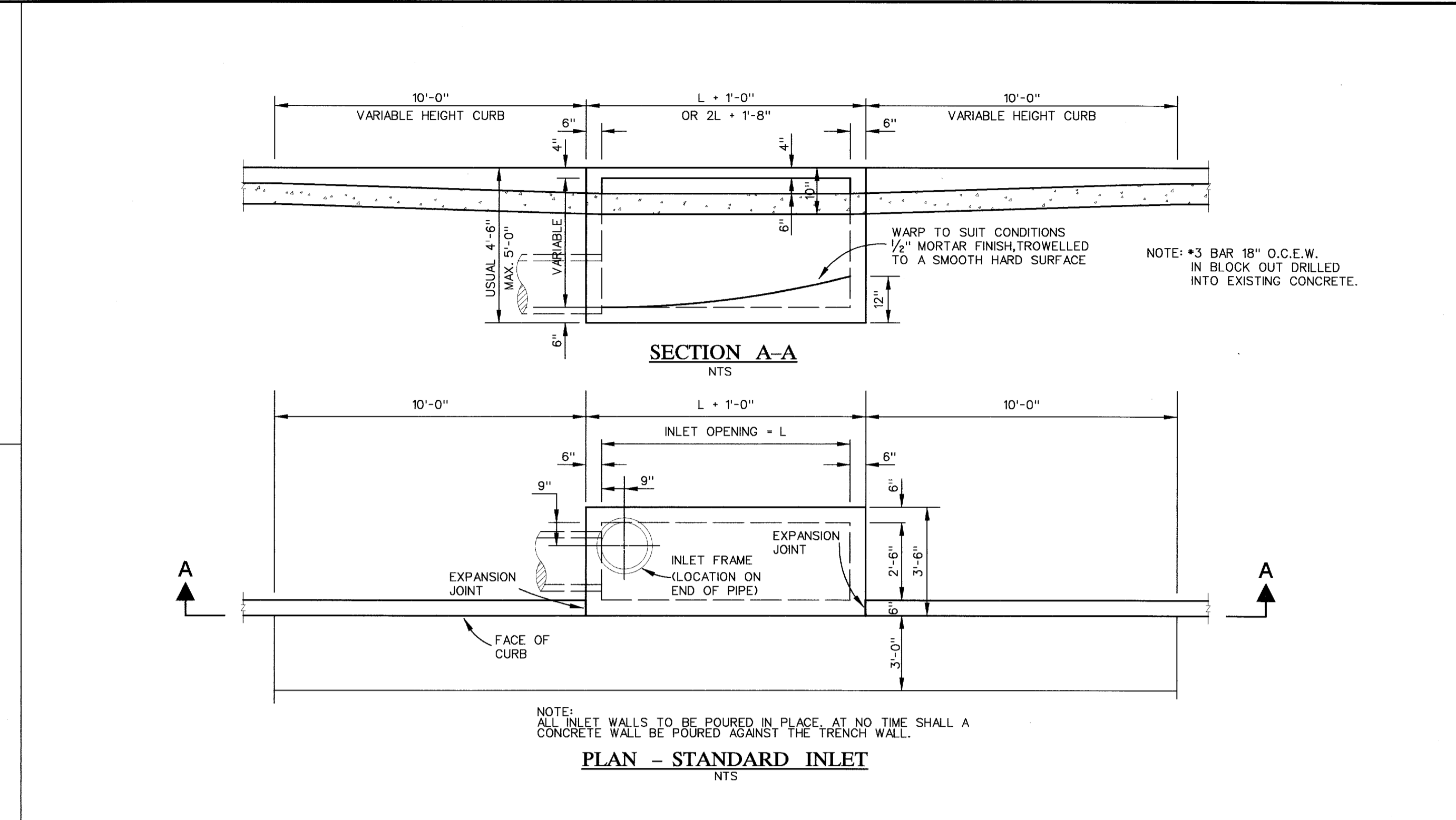
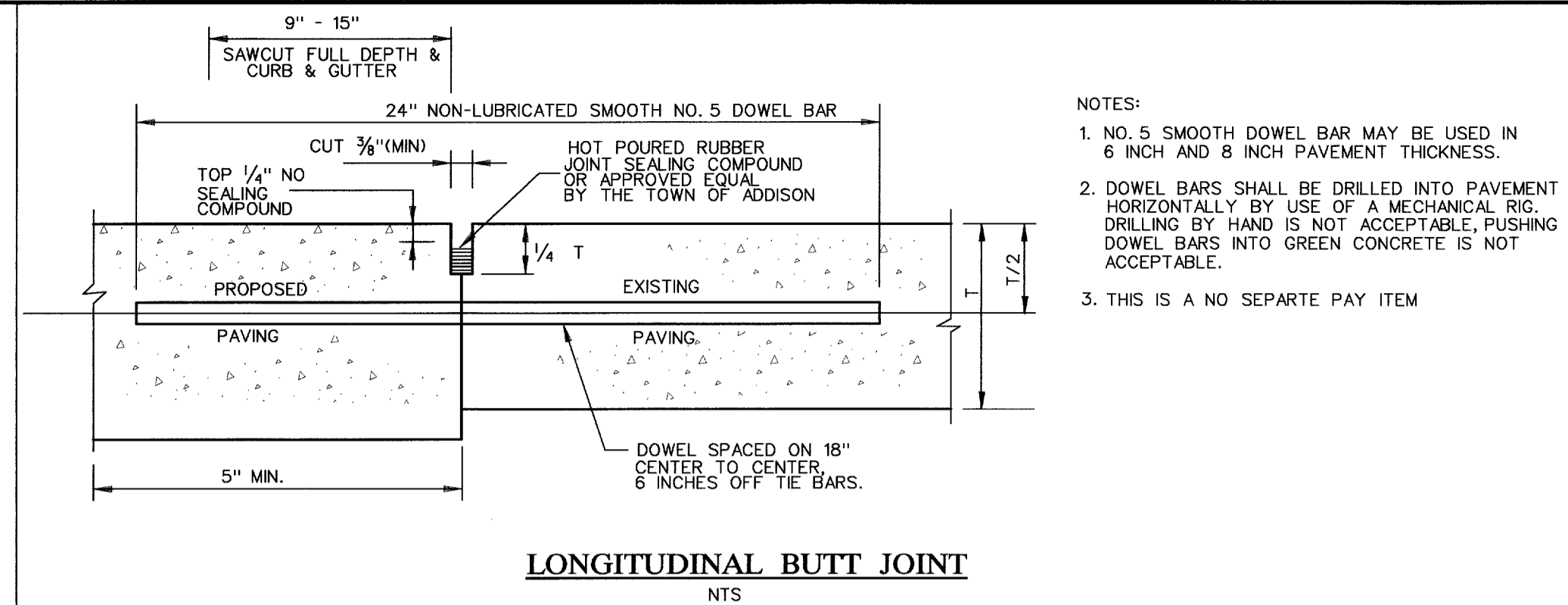
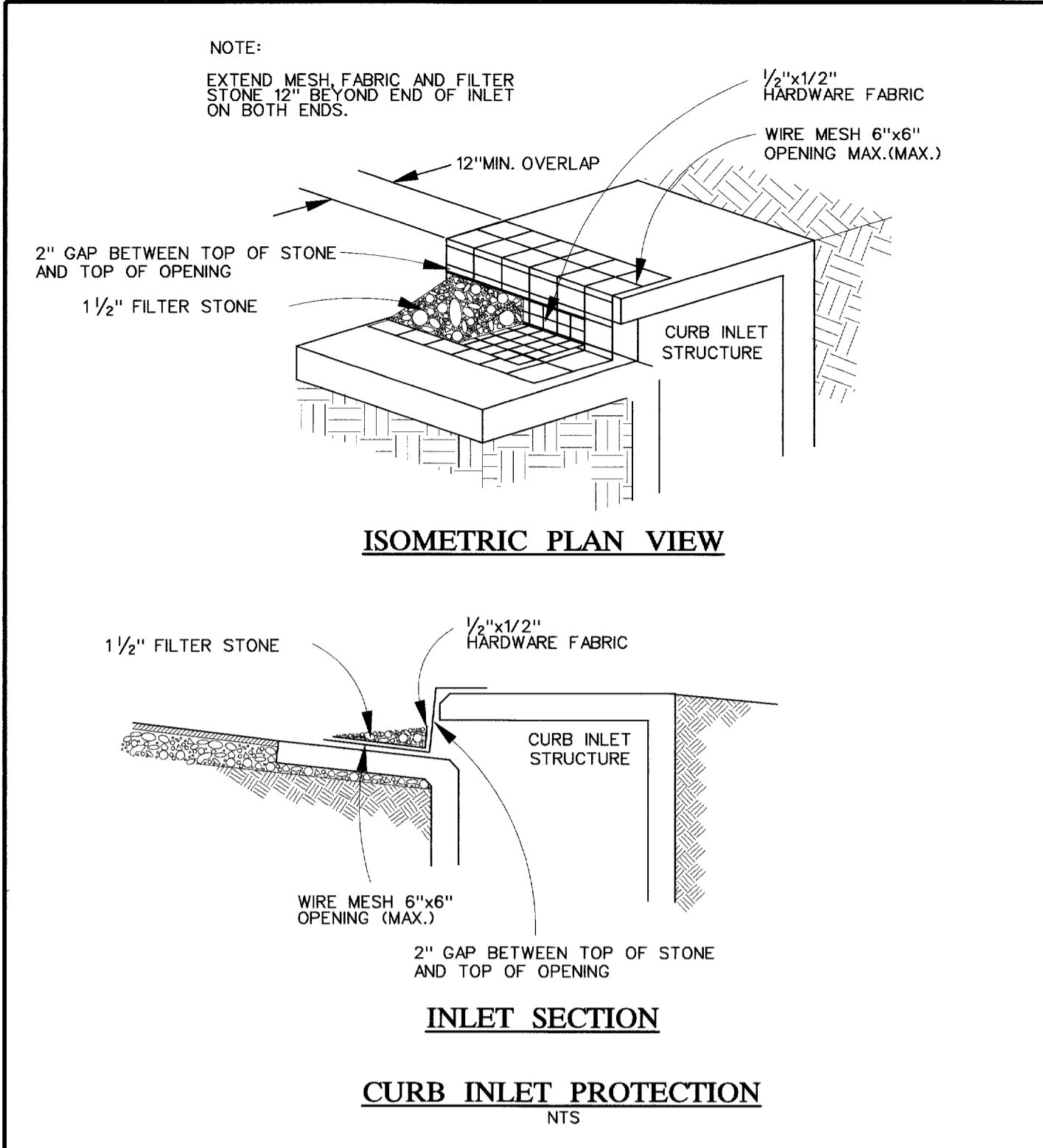


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DATE: 8/09/2002

NO.	DESCRIPTION	BY	DATE
<b>TOWN OF ADDISON, TEXAS</b> ENGINEERING DEPARTMENT			
<b>LINDBERGH WATER MAIN REPLACEMENT</b>			
<b>GENERAL NOTES &amp; MISCELLANEOUS DETAILS</b>			
GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS • 75229			
DRAWN: GSW	SCALE: NOTED		SHEET <b>2 OF 6</b>
APPROVED: QGS	DATE: DEC. 2001		
DATE: 8/09/2002			

Pl. Driver: DPW.plt  
 December 14, 2001 5:10PM  
 Project: Town of Addison "Lindbergh Dr. Waterline Replacement"



BORING B-1		BORING B-2		BORING B-3	
DEPTH, FT	SYMBOL	DEPTH, FT	SYMBOL	DEPTH, FT	SYMBOL
0-5	[Symbol]	0-5	[Symbol]	0-5	[Symbol]
5-10	[Symbol]	5-10	[Symbol]	5-10	[Symbol]
10-15	[Symbol]	10-15	[Symbol]	10-15	[Symbol]
15-20	[Symbol]	15-20	[Symbol]	15-20	[Symbol]
20	[Symbol]	20	[Symbol]	20	[Symbol]

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**TOWN OF ADDISON, TEXAS**  
**ENGINEERING DEPARTMENT**  
**LINDBERGH WATER MAIN REPLACEMENT**  
**MISCELLANEOUS DETAILS**

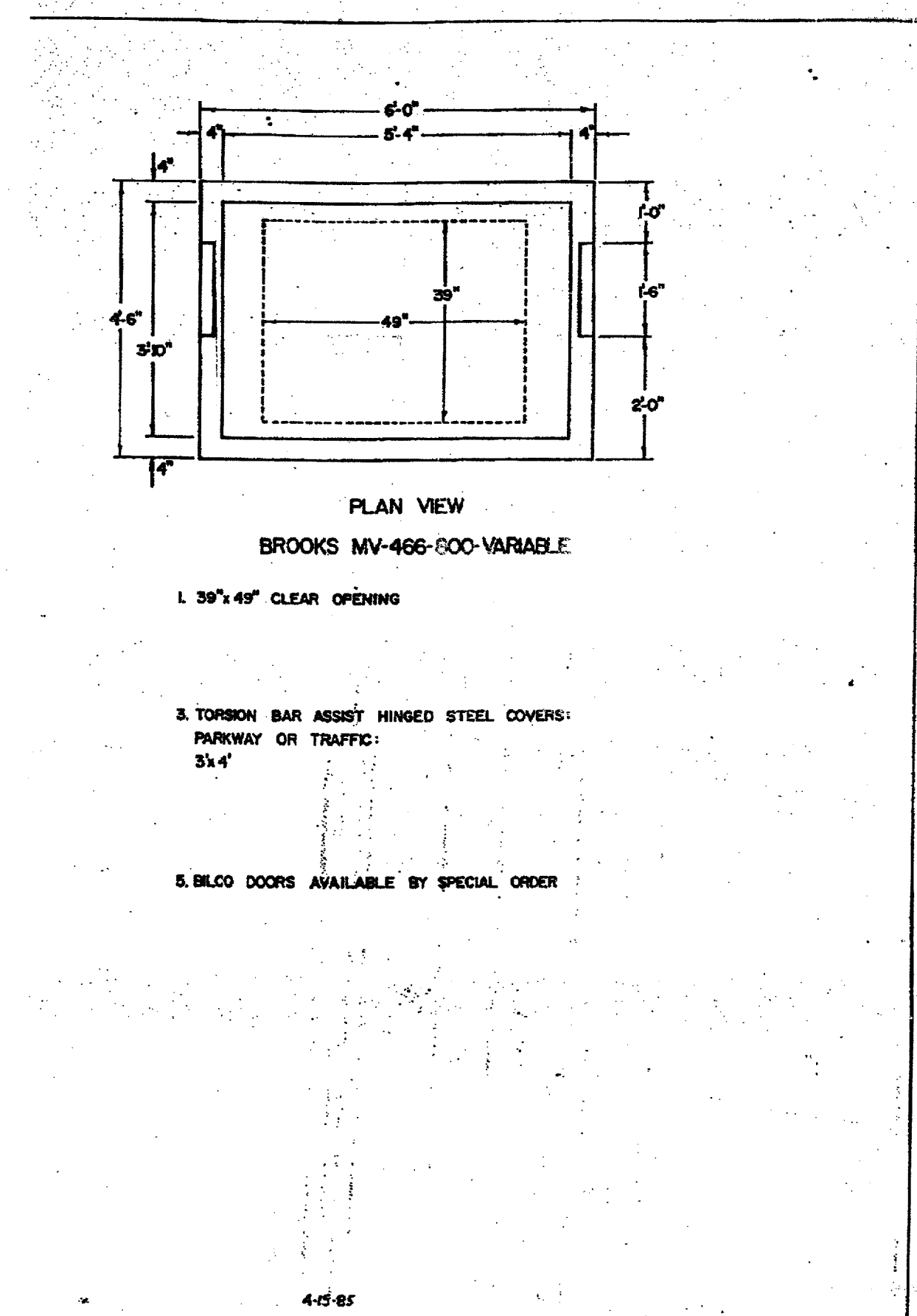
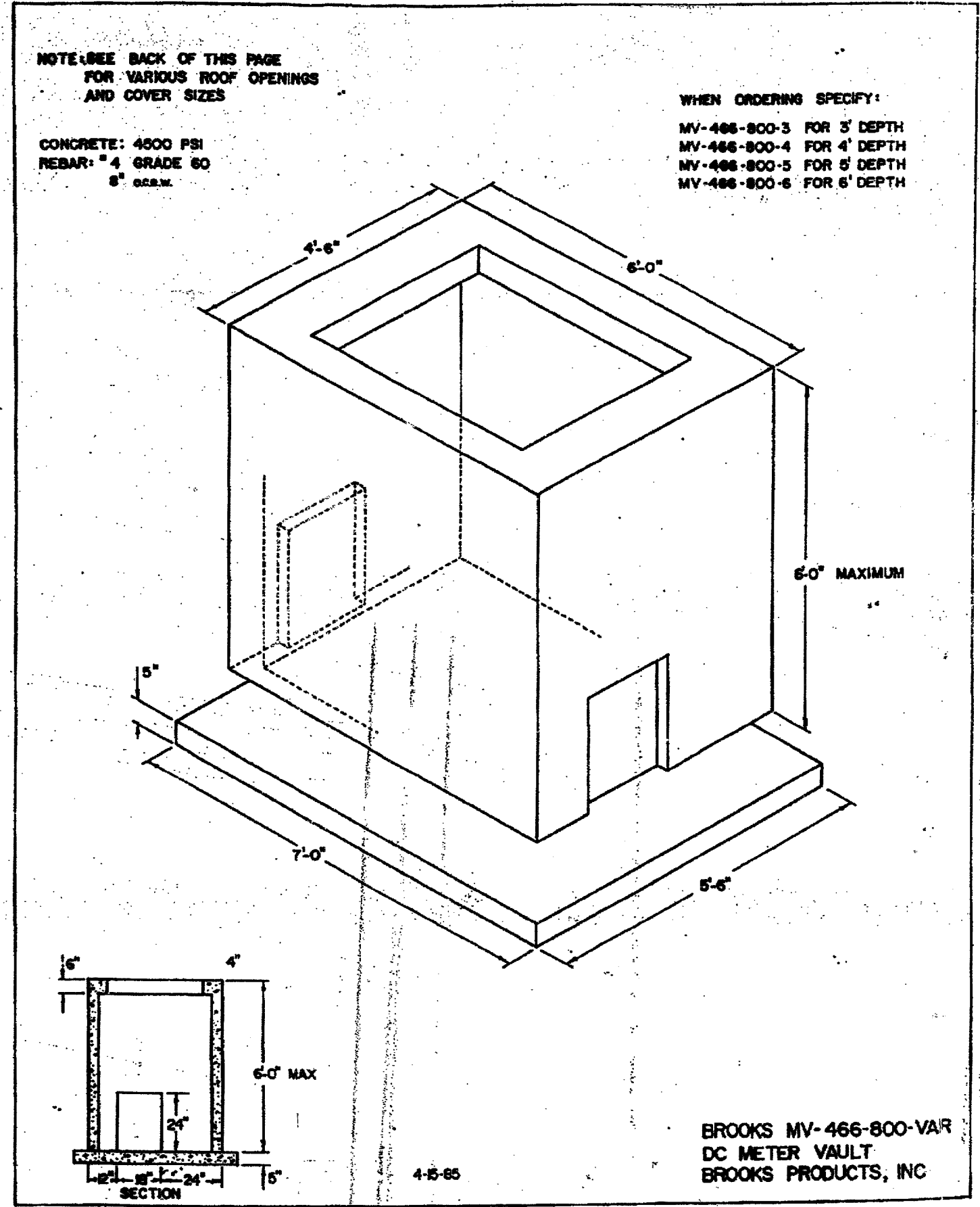
GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC.  
 CIVIL / ENVIRONMENTAL ENGINEERS  
 1117 SHADY TRAIL • DALLAS, TEXAS • 75229

DESIGN: GSW  
 DRAWN: GSW  
 APPROVED: QGS  
 DATE: DEC. 2001

SCALE: NOTED  
 SHEET  
**3 OF 6**

PL Driver: DPW.plt  
 Date: December 14, 2001 5:15 AM  
 Project: Town of Addison "Lindbergh Dr. Waterline Replacement"

USER-GSW  
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## Hersey

PRODUCTS

# Model ER-1

Electronic Encoder Register

### Features

**APPLICATIONS:** The Hersey Model ER-1 Electronic Encoder Register is available on Hersey meters for remote reading of hard-to-access commercial, institutional and residential installations. With minimal cost and labor, it also can be retrofitted to virtually any Hersey meter already in service. The Model ER-1 register is compatible with any of the meter reading methods in the Hersey AMR System, which simplifies migration and provides additional cost savings.

**DESCRIPTION:** The Model ER-1 register uses solid-state circuitry to generate two electronic switch closures per revolution of the sweep hand. It provides extremely high "sixth wheel" resolution for greater accuracy. It also avoids metal-to-metal contacts which could corrode or wear. For direct reading, the register face has a low-flow (leak) detector, a straight reading odometer with large, easy to read numerals, and a sweep hand. It can be specified in US gallons, cubic feet, cubic meters, or Imperial gallons.

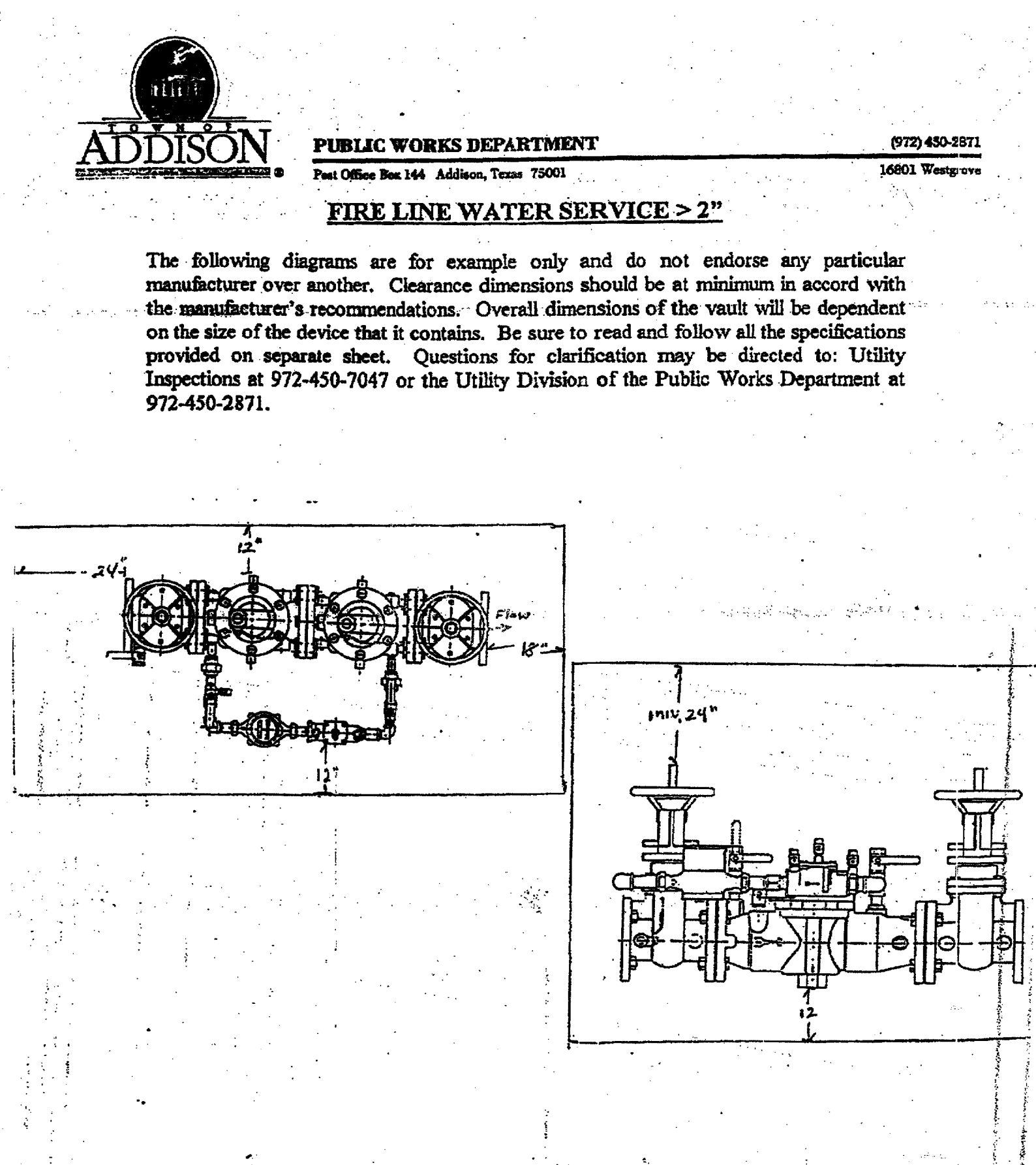
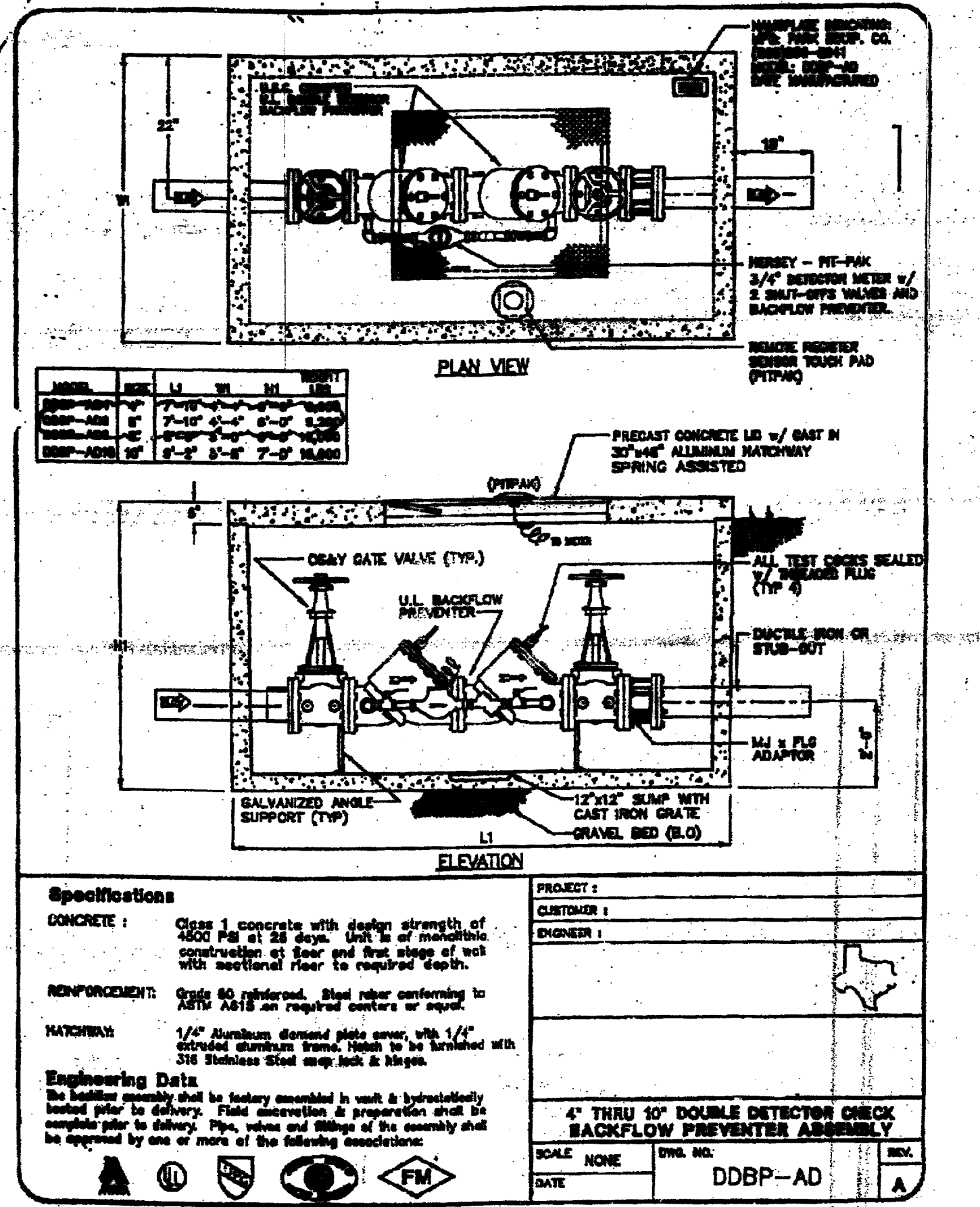
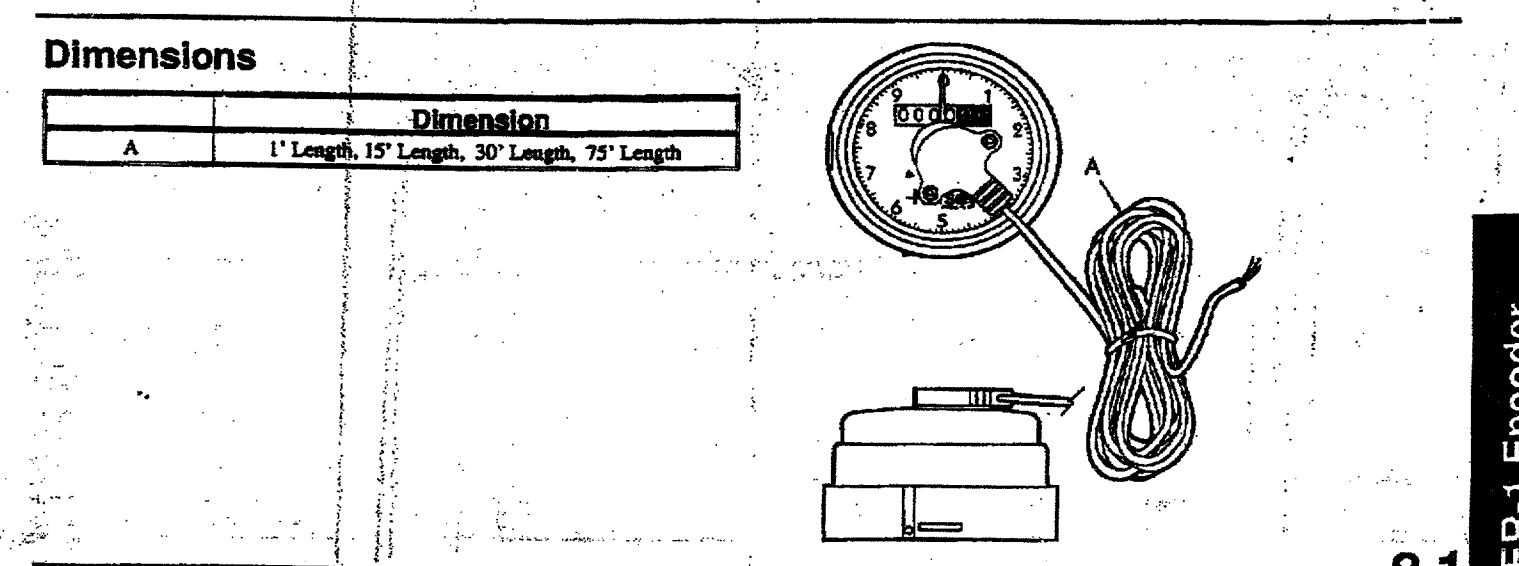
**CONFORMANCE TO STANDARDS:** Complies with AWWA Standard C707 for Encoded Remote Reading Systems when used with the Hersey Remote Reading System.

**CONSTRUCTION:** The fully encapsulated electronics do not penetrate the lens, assuring that the register is permanently sealed. Tamper resistant screws hold the electronics securely to the lens, and the register mounting has an integral tamper-proof feature. The connection between the electronics and the register's wiring cable is watertight.

### Materials and Specifications

(Typical Register Shown)

- MODEL ..... ER-1
- STANDARDS ..... Complies with AWWA Standard C707 for Encoded Remote Reading Systems (when used with the Hersey AMR System)
- REGISTER TYPE ..... Electronic encoding with visual odometer
- CABLE ..... 3-wire (2-wire if alarm circuit not connected)
- TEMPERATURE RANGE ..... -33F to 150F



## Model ER-1 Parts

Electronic Encoder Register

# Hersey

PRODUCTS

Ref. No.	Description	Part No.
1	Register Housing Base	C3925
2	Register Locking Pin (Plastic)	A12658
3	Register Housing Insert	C3582
4	ER-1 Non-encapsulated Module with 1" wire	B7890
	ER-1 Encapsulated Module with 15' wire	B81040
	ER-1 Encapsulated Module with 30' wire	B81041
	ER-1 Encapsulated Module with 75' wire	B81042
5	Tri-wire Screw	A57281
	Tri-wire Tool (screwdriver style, less bit)	ERTTOOL
	Tri-wire Tool Bit	ERTTOOLBIT
	O-ring	98301

\* Not shown.

8.2

**Hersey**  
 Products, Inc.  
 2800 E. 23rd  
 Dallas, Texas 75228  
 Phone: (214) 343-1111  
 Fax: (214) 343-1112  
 Telex: 230222 (In USA)  
 230222 (In USA)  
**Muller Co.**  
 A Division of Hersey Products, Inc.

## ADDISON

PUBLIC WORKS DEPARTMENT

Post Office Box 9010 Addison, Texas 75001-9010 (972) 450-2871 16801 Westgrove

### FIRE PROTECTION SYSTEM REQUIREMENTS FOR FINAL ACCEPTANCE

To whom it may concern:

The following will be required before the final acceptance of the underground portion (from water main to riser) of your fire protection system.

1. A State Fire Marshal Certificate of Registration for sales, installation, and service of fire protection sprinkler systems must be on file with the Town of Addison Fire Marshal's office. Copy to Public Works Inspector.
2. The name and license number of the Responsible Managing Employee must be on file with the Town of Addison Fire Marshal's Office. Copy to Public Works Inspector.
3. "As-Built" plans of the underground system, which have been signed by the Responsible Managing Employee, must be submitted to the Public Works Inspector.
4. Visual inspection, pressure test, and flush test will have been satisfactorily completed and verified by the Public Works Department.

After completion of the above items, a letter of acceptance will be sent to the contractor, and a copy will be sent to the Town of Addison Fire Marshal's Office.

## ADDISON

PUBLIC WORKS DEPARTMENT

Post Office Box 9010 Addison, Texas 75001-9010 (972) 450-2871 16801 Westgrove

### FIRE LINE WATER SERVICE > 2"

Contractors and/or plumbers are responsible for compliance with the following specifications:

All fire line services shall include an approved Double-Check Detector Assembly or Reduced Pressure Zone Detector Assembly at the point of connection to the City's water supply. An approved assembly shall be taken from the most current edition of the List of Approved Backflow Prevention Assemblies as published by the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California.

The Assembly shall be placed in a concrete vault of sufficient size to allow for convenient testing and/or repair. The vault shall have a concrete floor, and any joints shall be sealed to prevent infiltration of mud and silt. The vault doors shall be aluminum of the "Bilco" type (but not necessarily that brand), lockable, large enough to allow removal of the complete Assembly as a unit, and placed directly over the unit for ease of access. RPZ assemblies must be installed above ground according to manufacturer's specs, and protected from freezing and/or tampering with an approved enclosure.

The Assembly and piping shall be supported with manufactured supports designed for such application. (For clarification, reference Specification for Standoff Pipe Supports as manufactured by Material Resources Co., Hillsboro, Oregon, 503-693-0727 - Models S89 or S92.

The Assembly shall be complete with the approved appurtenances. The detector meter shall be any one of the following: Hersey Model 430, Hersey MVR-50.

The detector meter piping shall have an in-line or angle curb-stop or an approved ball valve before the meter and the compatible Double-Check or RPZ Assembly after the meter, and a test port after the assembly.

Meters > 18" deep shall be equipped with Hersey ER-1 registers and PitPak for connecting to touchless AMR system.

Mainline piping shall include a mechanical-joint flange adapter on the inlet end of the Assembly to facilitate future removal or replacement of the Assembly.

The contractor shall be responsible for having the Assembly tested by a "certified" Fire-Line Tester upon installation of the system, and prior to final, continuous connection to the City's water supply. A copy of the report shall be supplied to the Town of Addison Utility Division of the Public Works Department.

A meter deposit is required for all meters prior to initiation of service. Application and deposit will be made to the Town of Addison Utility Billing Department (972-450-7081) by the party responsible for the water bill.

See Figure FL-1 for dimensions of the vault etc. Deviations from this standard may be considered at the discretion of the Director of Public Works only insofar as the protection of the Public Water Supply is not compromised.

08/04/95 Updated 05/02/97

REVISION NO.	DESCRIPTION	BY	DATE

## TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT

### LINDBERGH WATER MAIN REPLACEMENT

### FIRE VAULT DETAIL

## TOWN OF ADDISON STANDARDS

DESIGN: \_\_\_\_\_

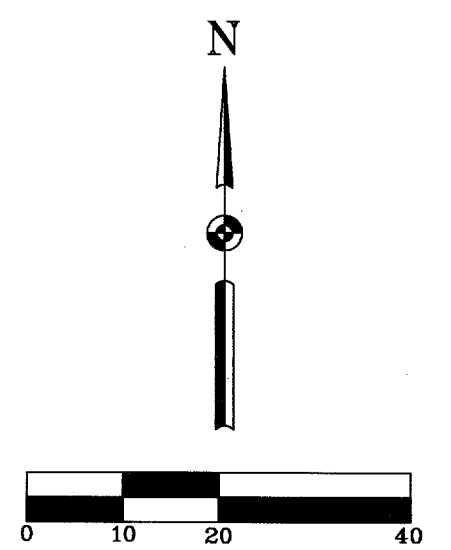
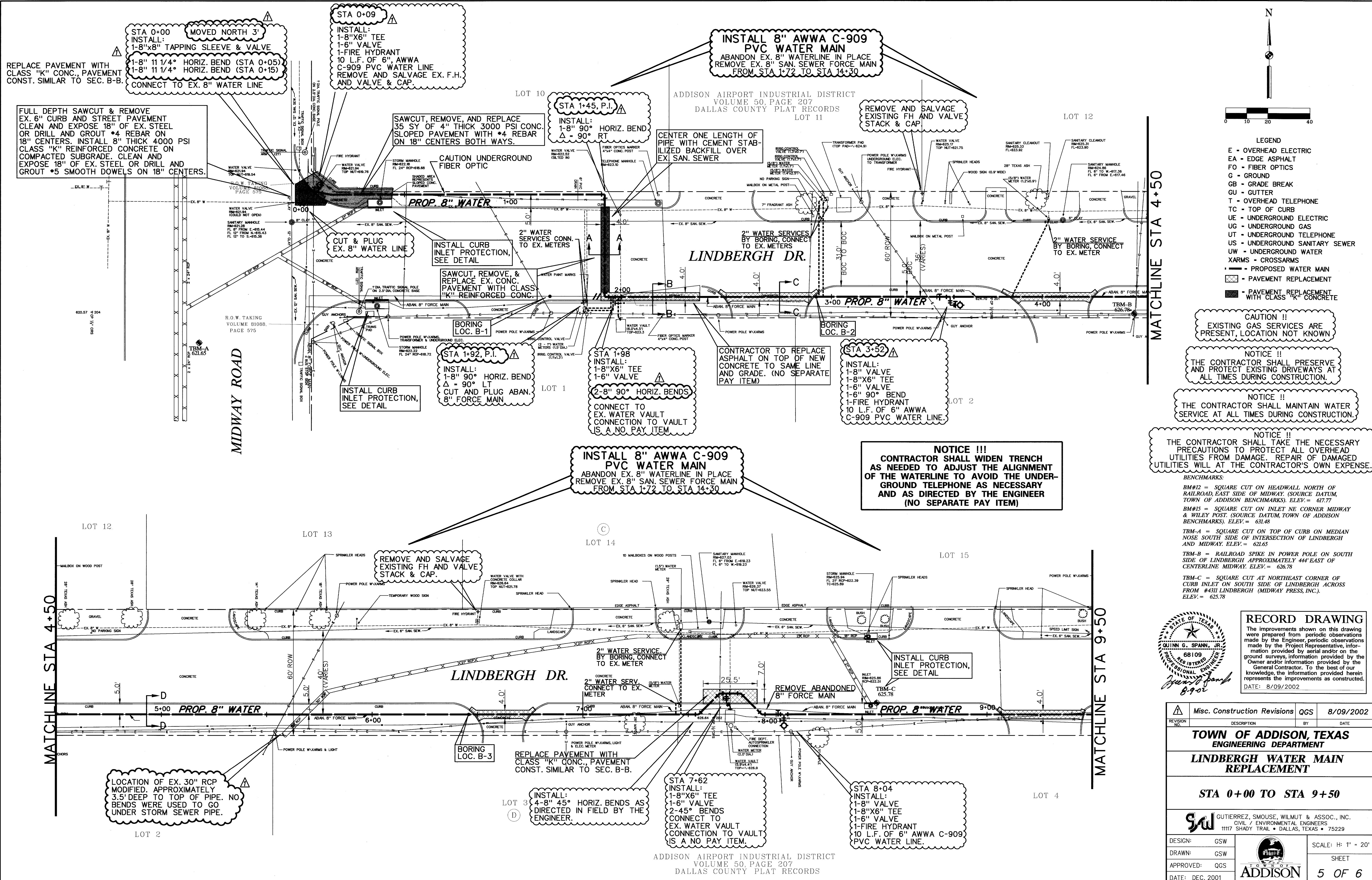
DRAWN: \_\_\_\_\_

APPROVED: \_\_\_\_\_

DATE: SEPT. 2001

SCALE: SHEET 4 OF 6

**ADDISON**  
 TOWN OF ADDISON, TEXAS  
 QUINN G. SPANN, JR.  
 PROFESSIONAL ENGINEER  
 68109  
 State of Texas



- LEGEND**
- E - OVERHEAD ELECTRIC
  - EA - EDGE ASPHALT
  - FO - FIBER OPTICS
  - G - GROUND
  - GB - GRADE BREAK
  - GU - GUTTER
  - T - OVERHEAD TELEPHONE
  - TC - TOP OF CURB
  - UE - UNDERGROUND ELECTRIC
  - UG - UNDERGROUND GAS
  - UT - UNDERGROUND TELEPHONE
  - US - UNDERGROUND SANITARY SEWER
  - UW - UNDERGROUND WATER
  - XARMS - CROSSARMS
  - - - PROPOSED WATER MAIN
  - ▨ - PAVEMENT REPLACEMENT
  - ▩ - PAVEMENT REPLACEMENT WITH CLASS "K" CONCRETE

**CAUTION !!**  
EXISTING GAS SERVICES ARE PRESENT, LOCATION NOT KNOWN.

**NOTICE !!**  
THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

**NOTICE !!**  
THE CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES DURING CONSTRUCTION.

**NOTICE !!!**  
THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT ALL OVERHEAD UTILITIES FROM DAMAGE. REPAIR OF DAMAGED UTILITIES WILL AT THE CONTRACTOR'S OWN EXPENSE.

**BENCHMARKS:**

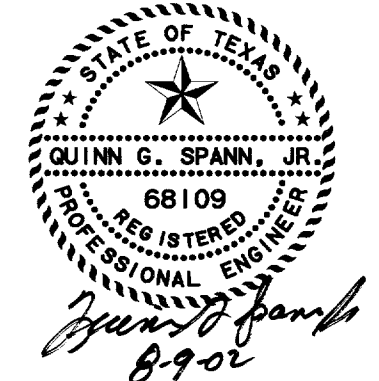
BM#12 = SQUARE CUT ON HEADWALL NORTH OF RAILROAD, EAST SIDE OF MIDWAY (SOURCE DATUM, TOWN OF ADDISON BENCHMARKS). ELEV. = 637.77

BM#15 = SQUARE CUT ON INLET NE CORNER MIDWAY & WILEY POST. (SOURCE DATUM, TOWN OF ADDISON BENCHMARKS). ELEV. = 631.48

TBM-A = SQUARE CUT ON TOP OF CURB ON MEDIAN NOSE SOUTH SIDE OF INTERSECTION OF LINDBERGH AND MIDWAY. ELEV. = 621.65

TBM-B = RAILROAD SPIKE IN POWER POLE ON SOUTH SIDE OF LINDBERGH APPROXIMATELY 44' EAST OF CENTERLINE MIDWAY. ELEV. = 626.78

TBM-C = SQUARE CUT AT NORTHEAST CORNER OF CURB INLET ON SOUTH SIDE OF LINDBERGH ACROSS FROM #4311 LINDBERGH (MIDWAY PRESS, INC.). ELEV. = 625.78



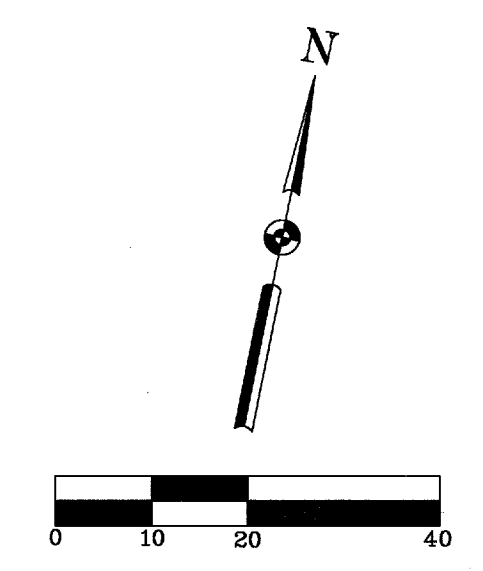
**RECORD DRAWING**

The improvements shown on this drawing were prepared from periodic observations made by the Engineer, periodic observations made by the Project Representative, information provided by aerial and/or on the ground surveys, information provided by the Owner and/or information provided by the General Contractor. To the best of our knowledge, the information provided herein represents the improvements as constructed.

DATE: 8/09/2002

REVISION NO.	Misc. Construction Revisions	QGS	8/09/2002
DESCRIPTION			
<b>TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT</b>			
<b>LINDBERGH WATER MAIN REPLACEMENT</b>			
<b>STA 0+00 TO STA 9+50</b>			
GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS • 75229			
DESIGN:	GSW	SCALE: H: 1" = 20'	
DRAWN:	GSW	SHEET	
APPROVED:	QGS	<b>ADDISON</b>	
DATE:	DEC. 2001	5 OF 6	

P11 Driver: DPW/pt  
 Date: December 14, 2001 \$TIME\$  
 \$FILES\$  
 Project: Town of Addison "Lindbergh Dr. Waterline Replacement"



- LEGEND**
- E - OVERHEAD ELECTRIC
  - EA - EDGE ASPHALT
  - FO - FIBER OPTICS
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  - US - UNDERGROUND SAN. SEWER
  - UW - UNDERGROUND WATER
  - XARMS - CROSSARMS
  - PROPOSED WATER MAIN
  - ▨ PAVEMENT REPLACEMENT
  - ▩ PAVEMENT REPLACEMENT WITH CLASS "K" CONCRETE

**INSTALL 8" AWWA C-909 PVC WATER MAIN**  
 ABANDON EX. 8" WATERLINE IN PLACE  
 REMOVE EX. 8" SAN. SEWER FORCE MAIN FROM STA 1+72 TO STA 14+30

CONTRACTOR TO TAKE ALL NECESSARY PRECAUTIONS TO KEEP SERVICE LINE OUT OF TREE DRIPLINE

REMOVE AND SALVAGE EXISTING FH AND VALVE STACK & CAP.

CUT & PLUG EX. 8" WATER LINE

STA 15+36 CONNECT TO EX. 8" WATER  
 INSTALL:  
 1-8" X 8" TAPPING SLEEVE AND VALVE.

REMOVE AND SALVAGE EXISTING FH AND VALVE STACK & CAP.

CAUTION !!!  
 THE CONTINUATION OF THE 6" SAN. SEWER IS NOT KNOWN BEYOND THIS POINT

**CURVE #1 DATA**  
 PC STA 9+69.7  
 PT STA 10+69.3  
 R= 422.0'  
 Δ = 13.53°  
 L= 99.6'  
 T= 50.1'

2" WATER SERVICE BY BORING, CONNECT TO EX. METER

CAUTION !!!  
 EXACT LOCATION OF SAN. SEWER SERVICE CONNECTION NOT KNOWN

CONTRACTOR TO LOCATE FIBER OPTIC PRIOR TO SERVICE BEING BORED.

STA 15+19, P.I.  
 INSTALL:  
 1-8" 45° HORIZ. BEND  
 Δ = 45° LT

2" WATER SERVICE CONNECT TO EX. RELOCATED METER

2" WATER SERVICE CONNECT TO EX. METER

SAWCUT REMOVE, & REPLACE EX. CONC. PAVEMENT.

CUT & PLUG ABANDONED 8" FORCE MAIN

MATCHLINE STA 9+50

LINDBERGH DR.

PROP 8" WATER

PROP 8" WATER

CONTRACTOR IS RESPONSIBLE FOR WORKING WITH UTILITY COMPANIES TO HAVE CONFLICTING UTILITIES ADJUSTED FOR NEW FIRE VAULT CONSTRUCTION. (NO SEPARATE PAY ITEM)

STA 10+40  
 INSTALL:  
 1-8" X 8" TEE  
 1-8" VALVE  
 CONSTRUCT NEW 8" FIRE VAULT PER STD DETAIL SHEET. CONNECT TO EX. 8" FIRELINE.

STA 9+69.7 & 9+70.7  
 INSTALL:  
 2-45° HORIZ. BENDS  
 CUT AND PLUG ABANDONED 8" FORCE MAIN

REMOVE EX. VAULT AND VAULT CONTENTS. (NO SEPARATE PAY ITEM FOR REMOVAL), PAYMENT FOR REMOVAL SHALL BE INCLUDED IN UNIT BID PRICE FOR NEW VAULT CONSTRUCTION.

CUT & PLUG ABANDONED 8" FORCE MAIN

STA 12+66  
 INSTALL:  
 1-8" VALVE  
 1-8" X 6" TEE  
 1-6" VALVE  
 1-FIRE HYDRANT  
 10' L.F. OF 6" AWWA C-909 PVC WATERLINE

STA 14+29.6 P.I.  
 INSTALL:  
 1-8" 90° HORIZ. BEND  
 Δ = 90° LT

- BENCHMARKS:**
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ADDISON AIRPORT INDUSTRIAL DISTRICT  
 VOLUME 50, PAGE 207  
 DALLAS COUNTY PLAT RECORDS

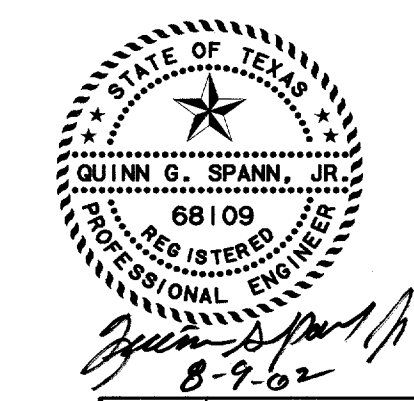
**NOTICE !!!**  
 CONTRACTOR SHALL WIDEN TRENCH AS NEEDED TO ADJUST THE ALIGNMENT OF THE WATERLINE TO AVOID THE UNDERGROUND TELEPHONE AS NECESSARY AND AS DIRECTED BY THE ENGINEER (NO SEPARATE PAY ITEM)

CAUTION !!  
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 DATE: 8/09/2002

REVISION NO.	DESCRIPTION	BY	DATE
<b>TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT</b>			
<b>LINDBERGH WATER MAIN REPLACEMENT</b>			
<b>STA 9+50 TO STA 15+22</b>			
GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS • 75229			
DESIGN:	GSW	SCALE: H: 1" = 20'	
DRAWN:	GSW	SHEET	
APPROVED:	QGS	6 OF 6	
DATE:	DEC. 2001	ADDISON	

P14 Driver: DPW.plt  
 Date: December 14, 2001 5:15:58 PM  
 Project: Town of Addison "Lindbergh Dr. Waterline Replacement"