

TOWN OF
ADDISON
 DALLAS COUNTY, TEXAS

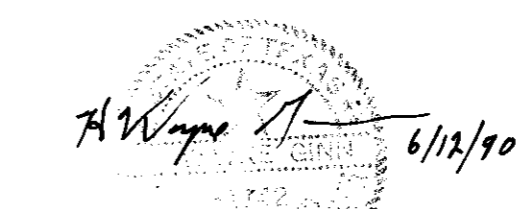
CONSTRUCTION PLANS FOR
**24" WATERLINE
 RELOCATION**

- MAYOR:**
 D. LYNN SPRUILL
- COUNCIL MEMBERS:**
 JOHN BRANCH
 MARY DOLAN
 JIM DUFFY
 JOHN NOLAN
 RILEY REINKER
- CITY MANAGER:**
 RON WHITEHEAD
- DIRECTOR OF STREETS:**
 ROBIN JONES
- DIRECTOR OF UTILITIES:**
 DON PREECE

*Work done by
 Jim Com Services
 PO Box 2867 Garland, 75041
 3010 W. Main Road 75088
 214 475-5027*

*NOV
 1990*

APPROVED BY: _____ DATE: _____
 D. LYNN SPRUILL, MAYOR

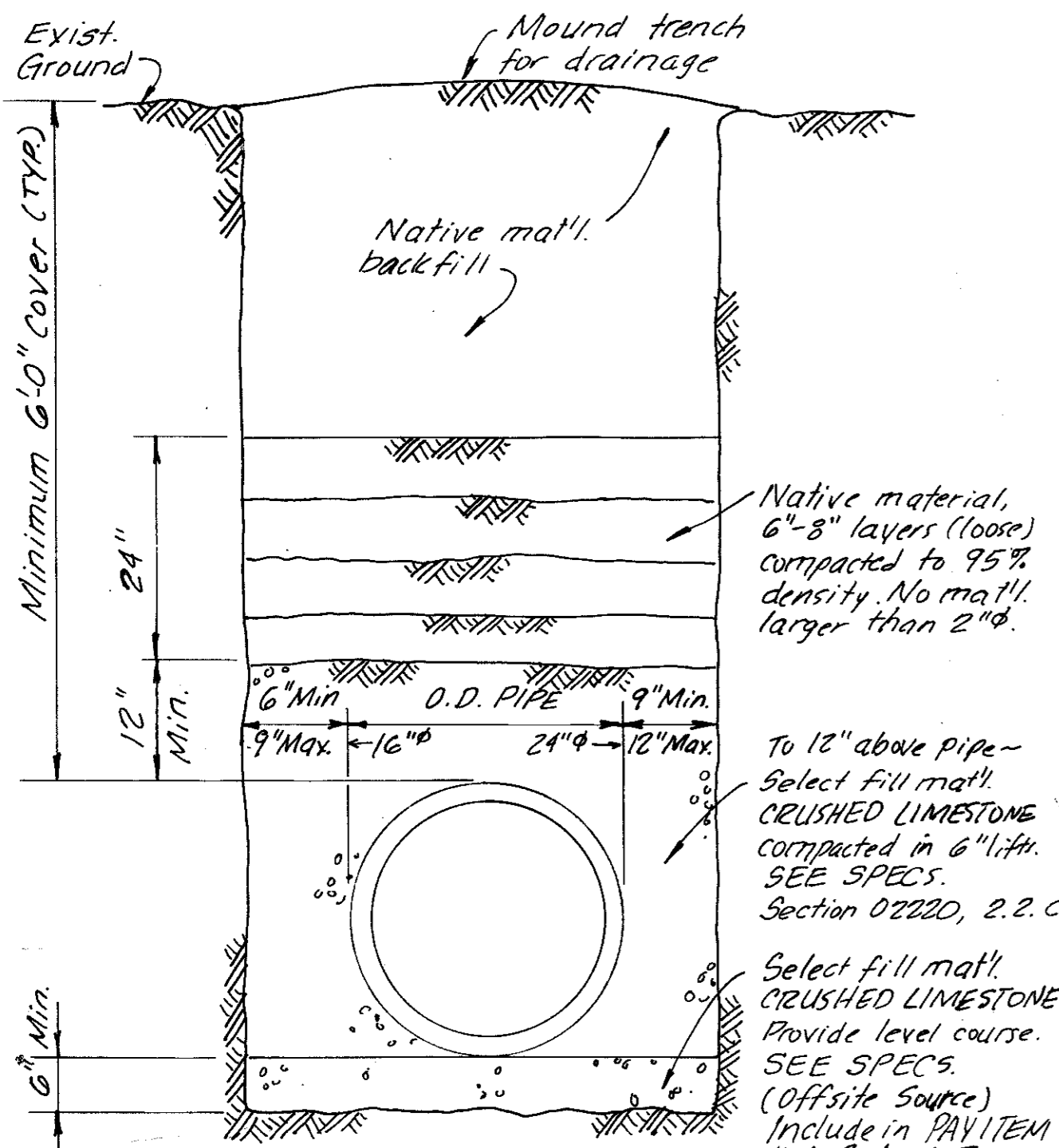


GINN, INC.
 Consulting Engineers Dallas, Texas
 JUNE, 1990

GENERAL NOTES: TRENCH SAFETY (PAY ITEM #12)

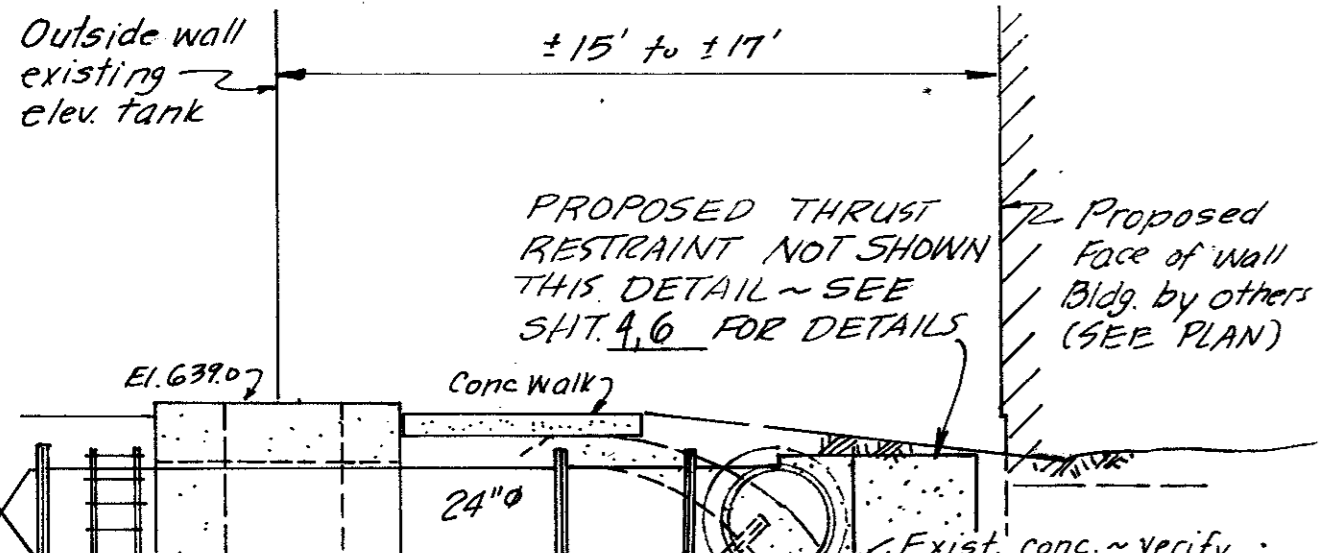
- CONTRACTOR SHALL PROVIDE & ASSUME FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF TRENCH SAFETY TO FULLY COMPLETE THE CONSTRUCTION.
- A COPY OF THE SUBSURFACE EXPLORATION IS PROVIDED IN APPENDIX OF SPECIFICATIONS.
- TYPE OF TRENCH SAFETY USED SUBJECT TO APPROVAL BY ENGINEER. CONTRACTOR SHALL SUBMIT PLANS SHOWING DETAILS SUCH AS SPACING, CONFIGURATION, TYPES & GRADES OF MATERIALS, DIMENSIONS, STRESS ALLOWABLES, ETC. AND SEALED BY A REGISTERED P.E. IN THE STATE OF TEXAS. THE DESIGN LATERAL EARTH PRESSURE USED IN THE DESIGN SHALL BE STATED.
- DESIGN CRITERIA: U.S. DEPT. OF LABOR, OSHA PUBLICATIONS OSHA 1926 AND 2232.

- ACCEPTABLE TRENCH SAFETY METHODS ARE: TIMBER SHORING, PREMANUFACTURED METAL SHORING SYSTEMS, PORTABLE TRENCH BOXES, OR SLOTTED EXCAVATIONS.
- ALL TRENCHES SHALL BE SHORED OR LAID BACK TO A STABLE SLOPE; CHOICE OF METHOD LEFT TO CONTRACTOR, SUBJECT TO ENGR. APPROVAL.
- AREA OF TRENCH EXCAVATION WITHIN 20' HORIZ. OF TANK FOUNDATION MUST USE SHORING SYSTEM; SLOPING SIDES OF TRENCHES WILL NOT BE ALLOWED.
- PLANS & CERTIFICATION MUST BE SUBMITTED 10 DAYS PRIOR TO BEGINNING EXCAVATION.
- CONTR. MUST RECEIVE WRITTEN APPROVAL FOR SYSTEM PROPOSED PRIOR TO BEGINNING WORK.



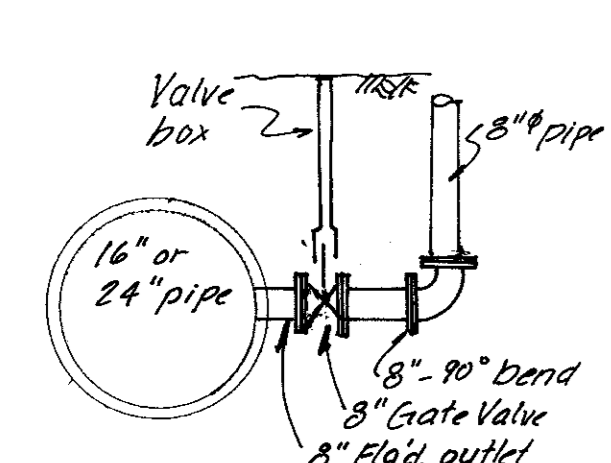
TRENCH DETAIL

Scale: 3/4" = 1'-0"
NOTE: Excess excavated material shall be hauled to offsite disposal area. NOT A SEPARATE PAY ITEM.



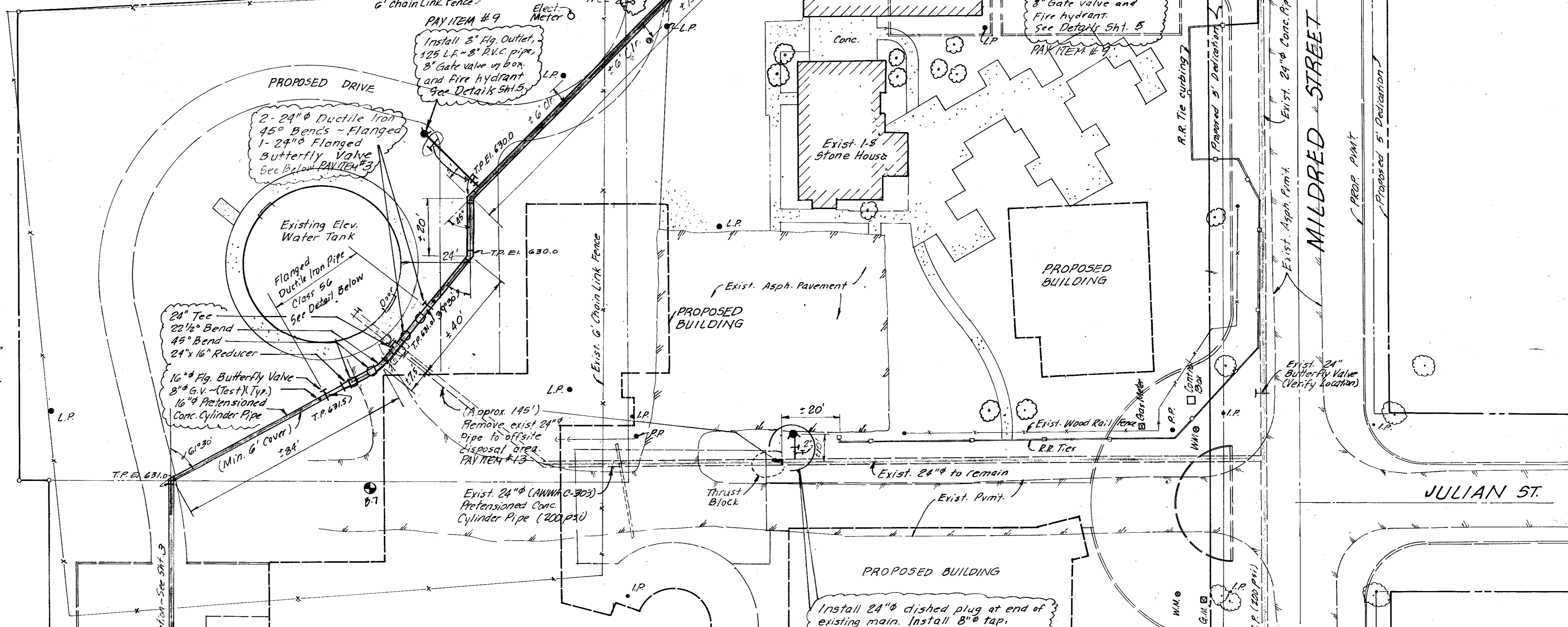
SECTION

1/4" = 1'-0" (SHOWING EXIST. CONDITIONS)



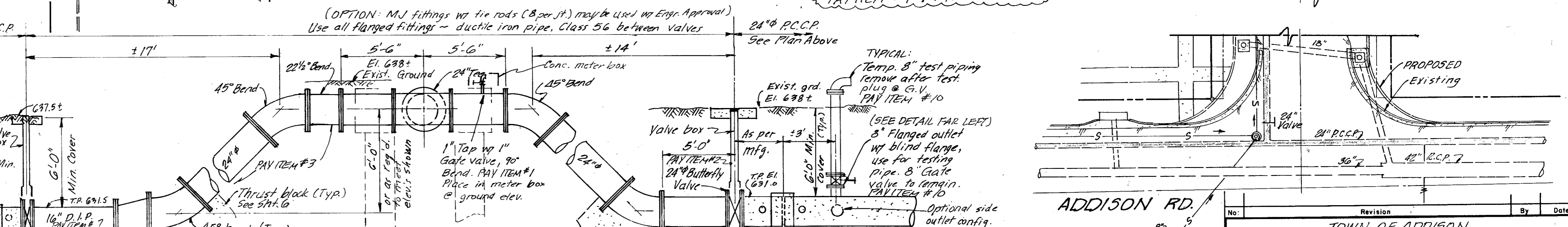
DETAIL

OPTIONAL LOCATION FLANGED OUTLET



SITE PLAN - 24" φ WATER LINE

SCALE: 1" = 20'



ELEVATION

1/4" = 1'-0"

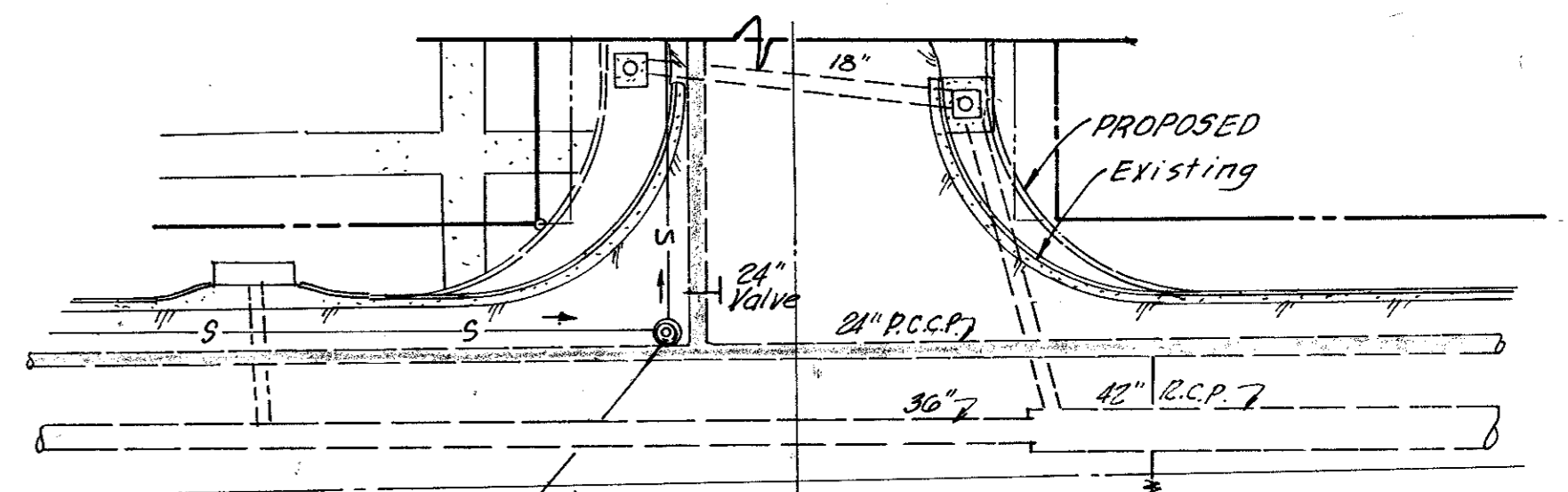
NOTE: (FOR 16" PIPE) Thrust restraint for 45° bends shall be designed for 19.5 tons of thrust. Type of thrust restraint to be app'd. by Engineer.

Typ. butt strap closure as per mfg. recommendations. Provide handholes as req'd.

THRUST RESTRAINT: Drilled shafts, conc. beam, conc. saddle, etc. not shown for clarity. SEE DETAILS SHIT No. 4. PAY ITEM # 11

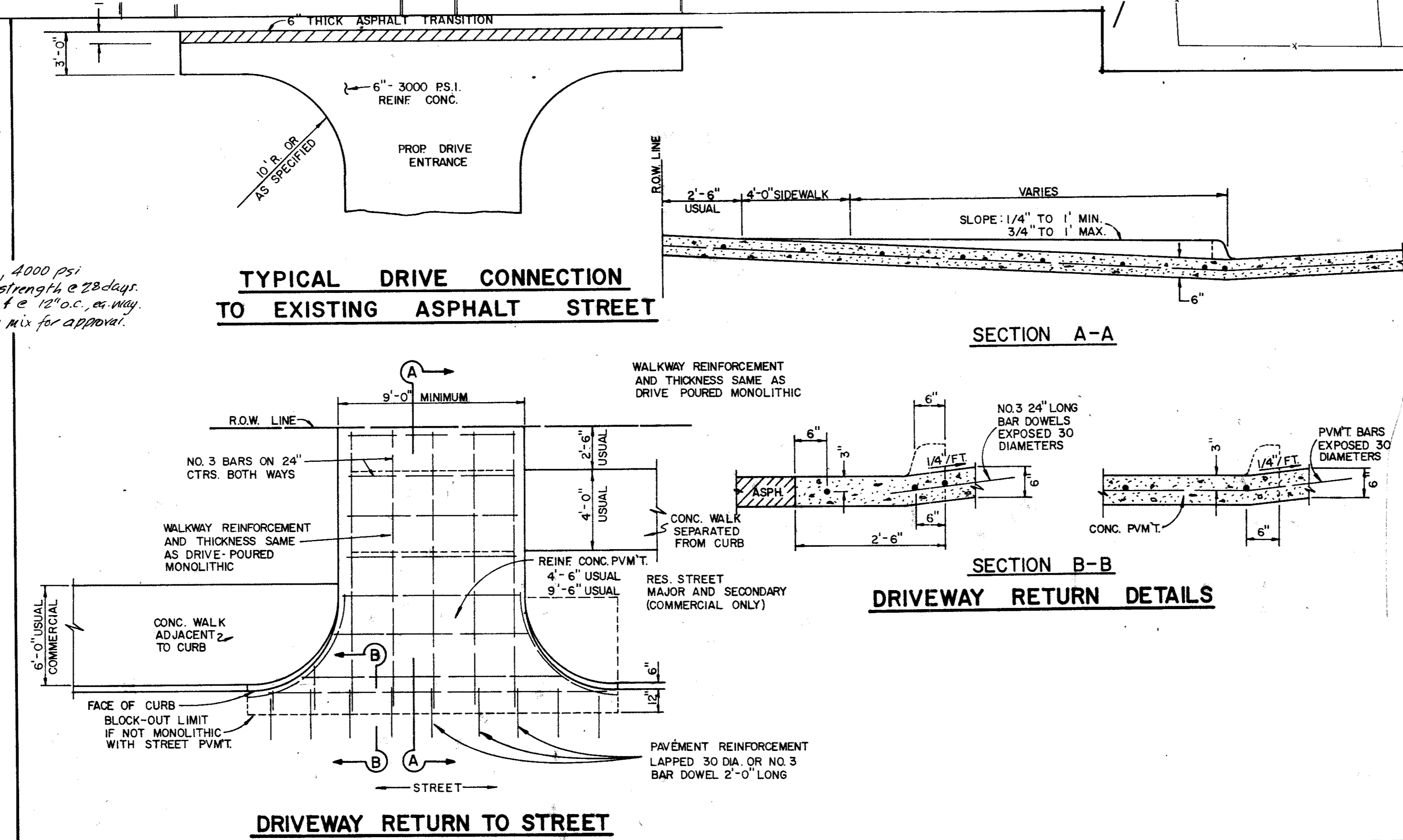
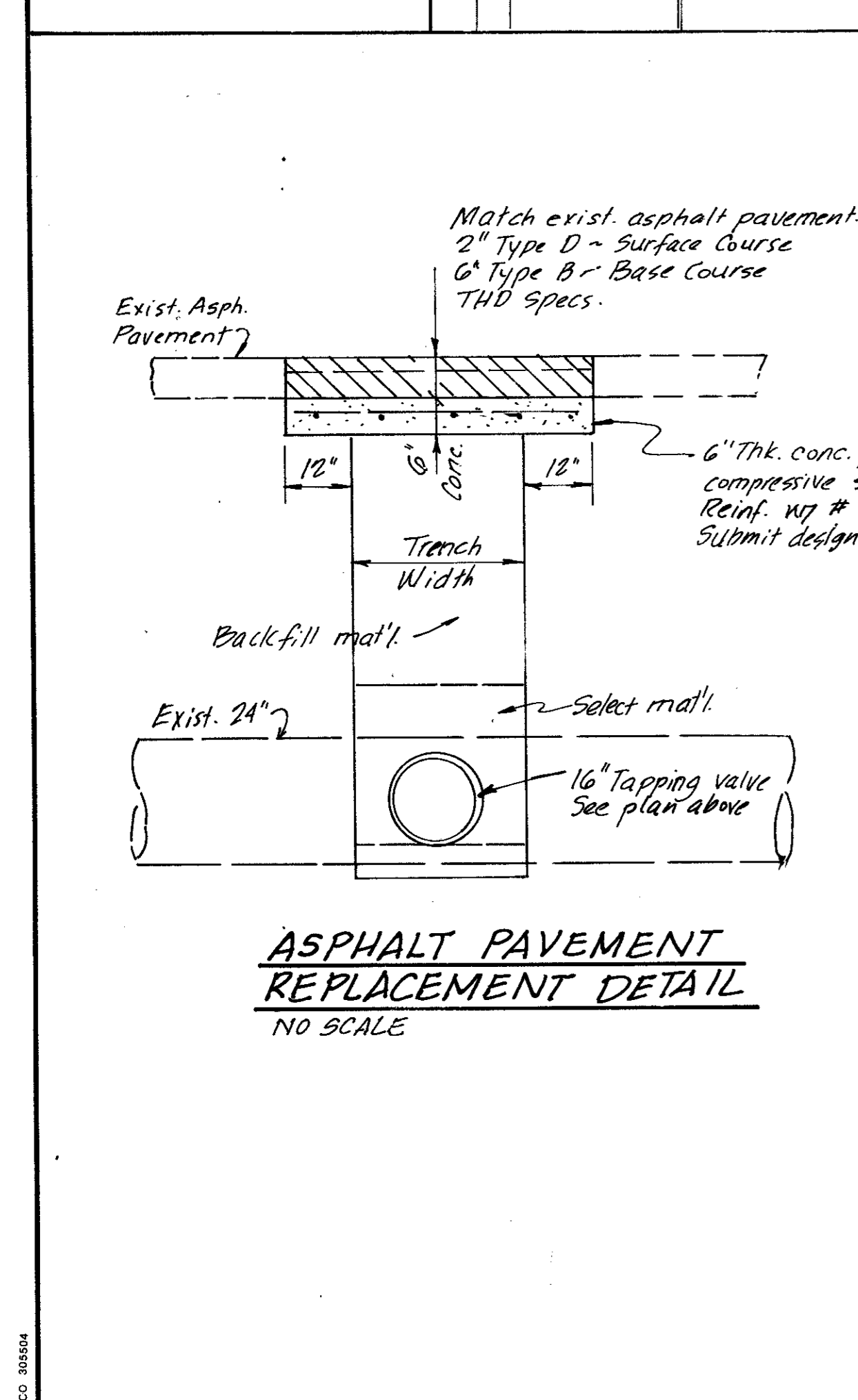
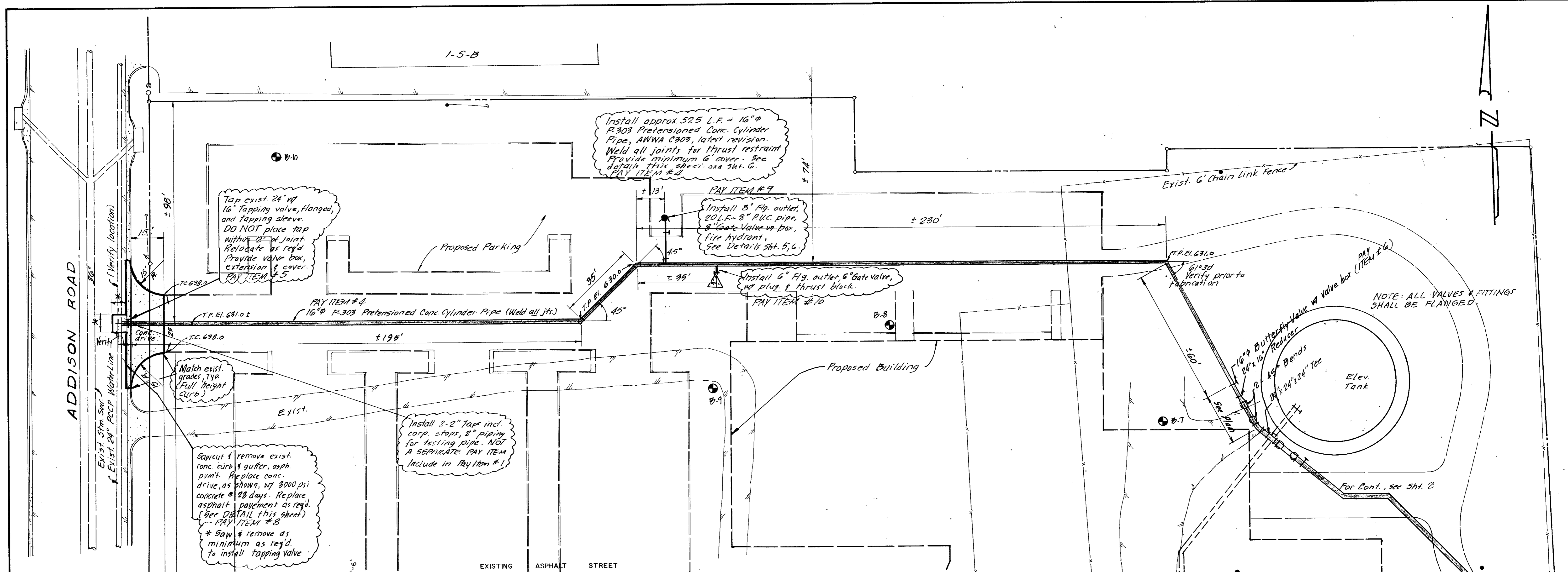
NOTE: (FOR 24" PIPE) Thrust restraint for 45° bends shall be designed for 35 tons of thrust. For tee ~ 64 tons of thrust. Type of restraint to be approved by Engineer.

Typ. butt strap closure as per mfg. recommendations. Provide handholes as req'd. Submit shop drawings for approval prior to construction. Provide dished plug for testing.



ADDISON RD.

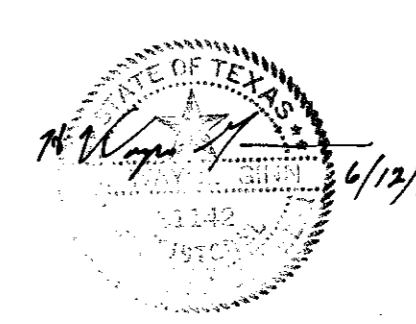
Revision		By		Date	
TOWN OF ADDISON DALLAS COUNTY, TEXAS					
24" φ WATER LINE RELOCATION					
24" W.L.					
SITE PLAN - ELEVATION - DETAILS					
GINN, INC.					
Consulting Engineers Dallas, Texas					
Designed - GF	Drawn - GF	Date - JUNE 1990	Job No. - 90442		
Approved - HNG	Checked - HNG	Scale - As Shown	Sheet 2	Of 6	

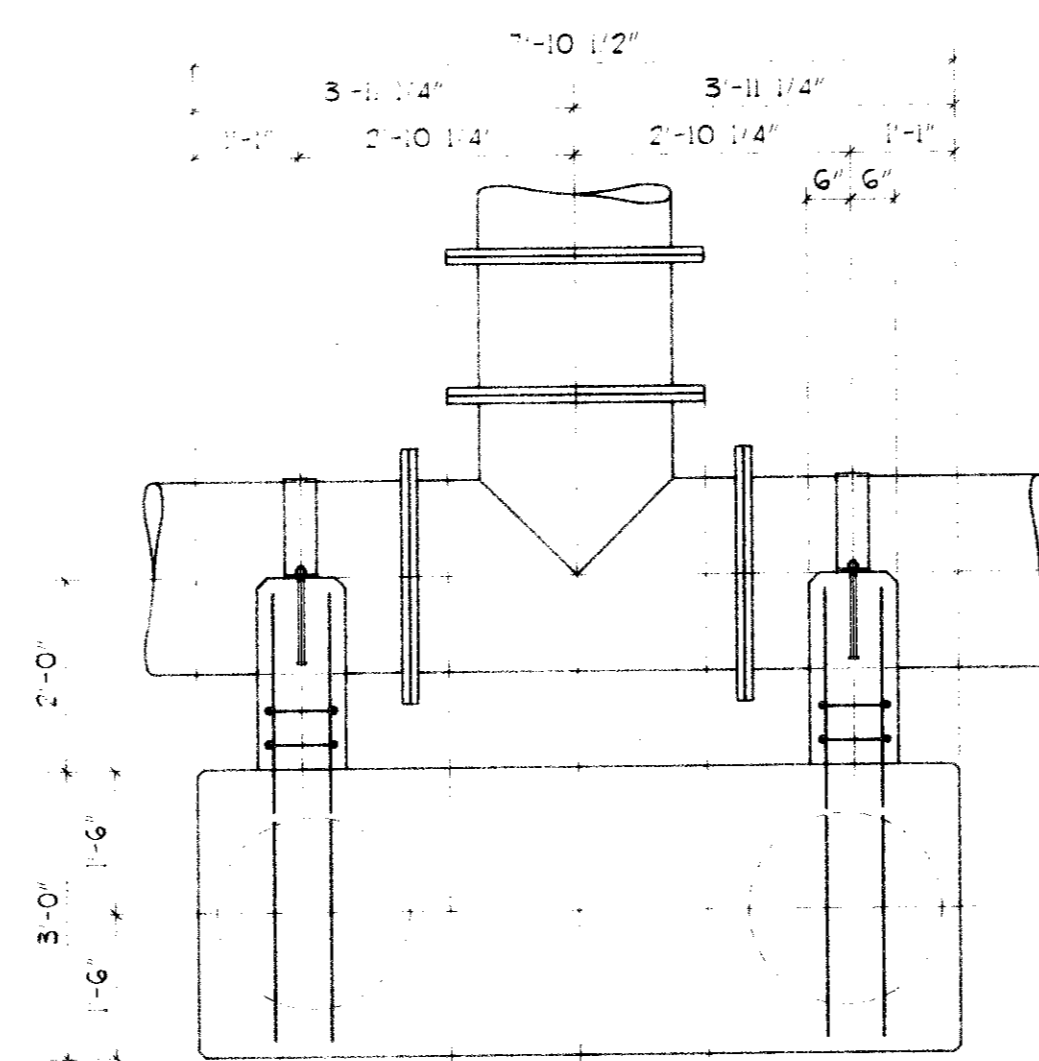


- SUGGESTED SEQUENCE OF CONSTRUCTION:**
1. Construct 16" line from Addison Rd. to butterfly valve near tank.
 2. Construct 24" line from Mildred St. tie-in to butterfly valve near tank.
 3. Test and chlorinate both 16" and 24" line. Take samples.
 4. Construct, test and chlorinate 24" ductile line, between butterfly valves in vicinity of elevated tank; including drilled shafts for use in thrust restraint.
 5. Make tie in to 24" pipe at elev tank and 16"/24" lines also.
- ELEVATED TANK CAN NOT BE OUT OF SERVICE LONGER THAN 8 HOURS UNLESS OTHERWISE AUTHORIZED IN WRITING BY OWNER/ENGINEER.

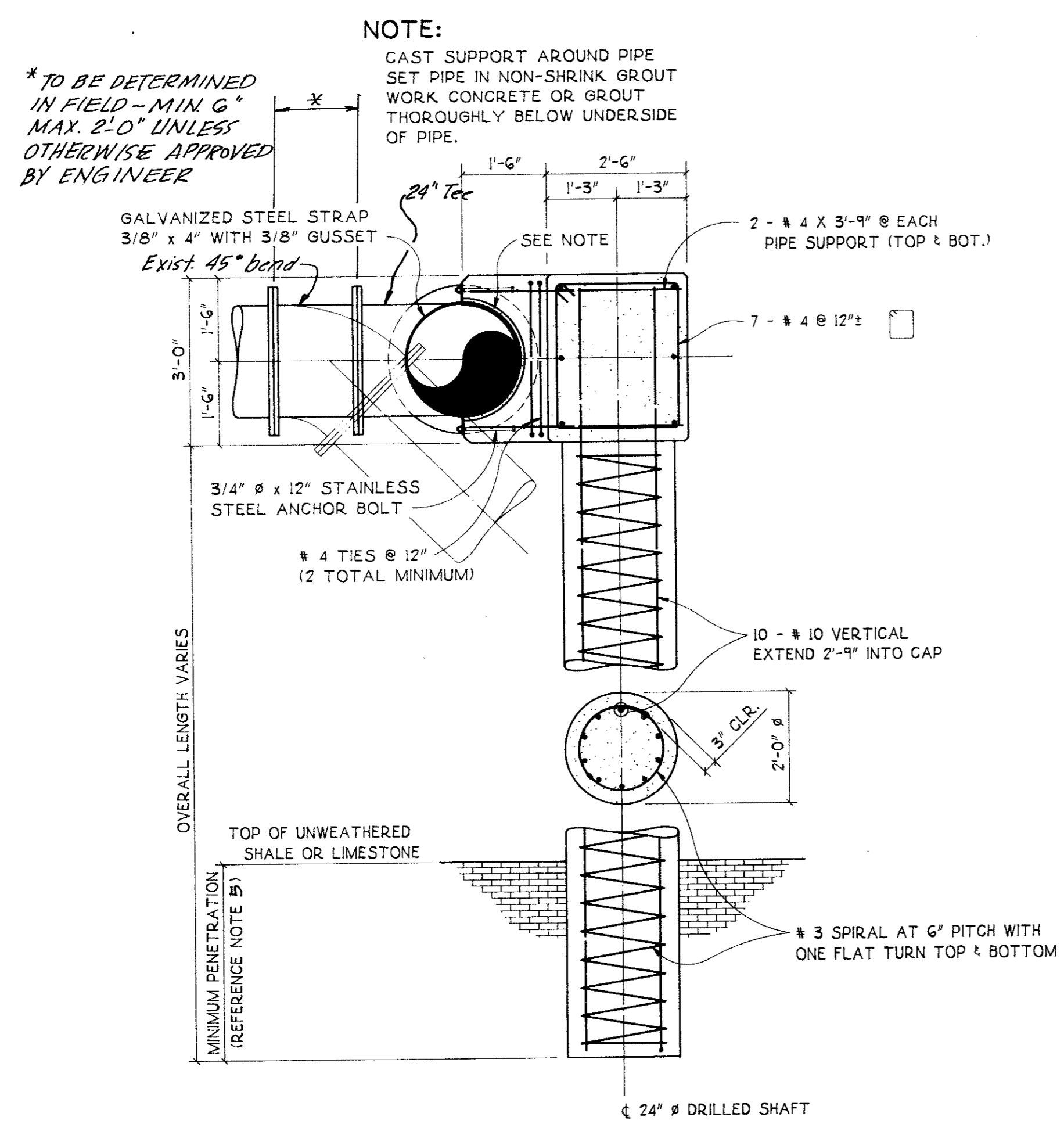
- GENERAL NOTES:**
1. Contractor shall keep tank electrical and telemetry in-service at all times. If required, telemetry shall be re-routed as needed, along new 24" line relocation. Include in PAY ITEM #13.
 2. Thrust restraint for pipes shall be welded joints, concrete thrust blocks, or combination thereof, to resist thrust as shown.
 3. Upon discharging "super chlorinated" water effluent after testing, contractor shall treat effluent in accordance with AWWA Standards. Amount of treatment dependent upon dilution of chlorine used in testing/chlorination procedures.
 4. TESTING of water lines NOT A SEPARATE PAY ITEM - incidental to const.

No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS 24" WATER LINE RELOCATION 16" W. L.			
SITE PLAN - DETAILS			
GINN, INC.			
Consulting Engineers Dallas, Texas			
Designed - CF	Drawn - CF	Date - JUNE 1990	Job No. - 90442
Approved - WG	Checked - WG	Scale - AS SHOWN	Sheet 3 of 6

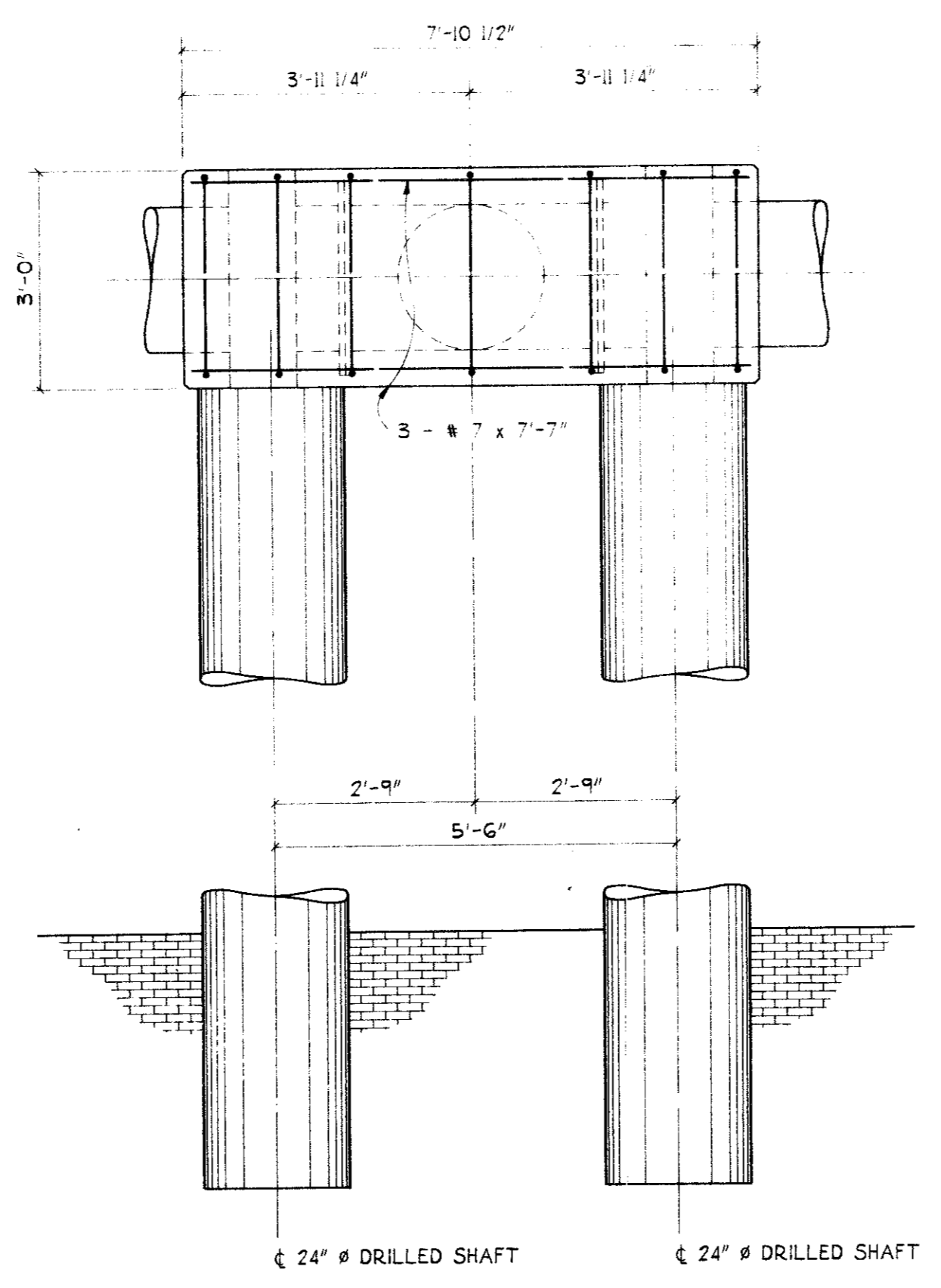




PLAN
SCALE: 1/2" = 1'-0"



DETAIL OF DRILLED SHAFT
SCALE: 1/2" = 1'-0"



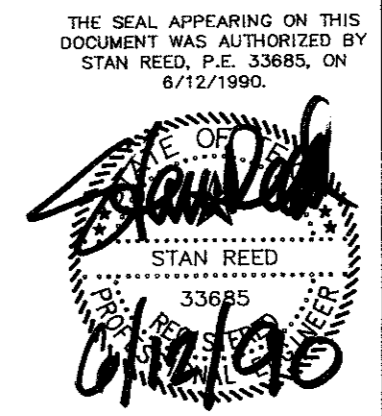
ELEVATION
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

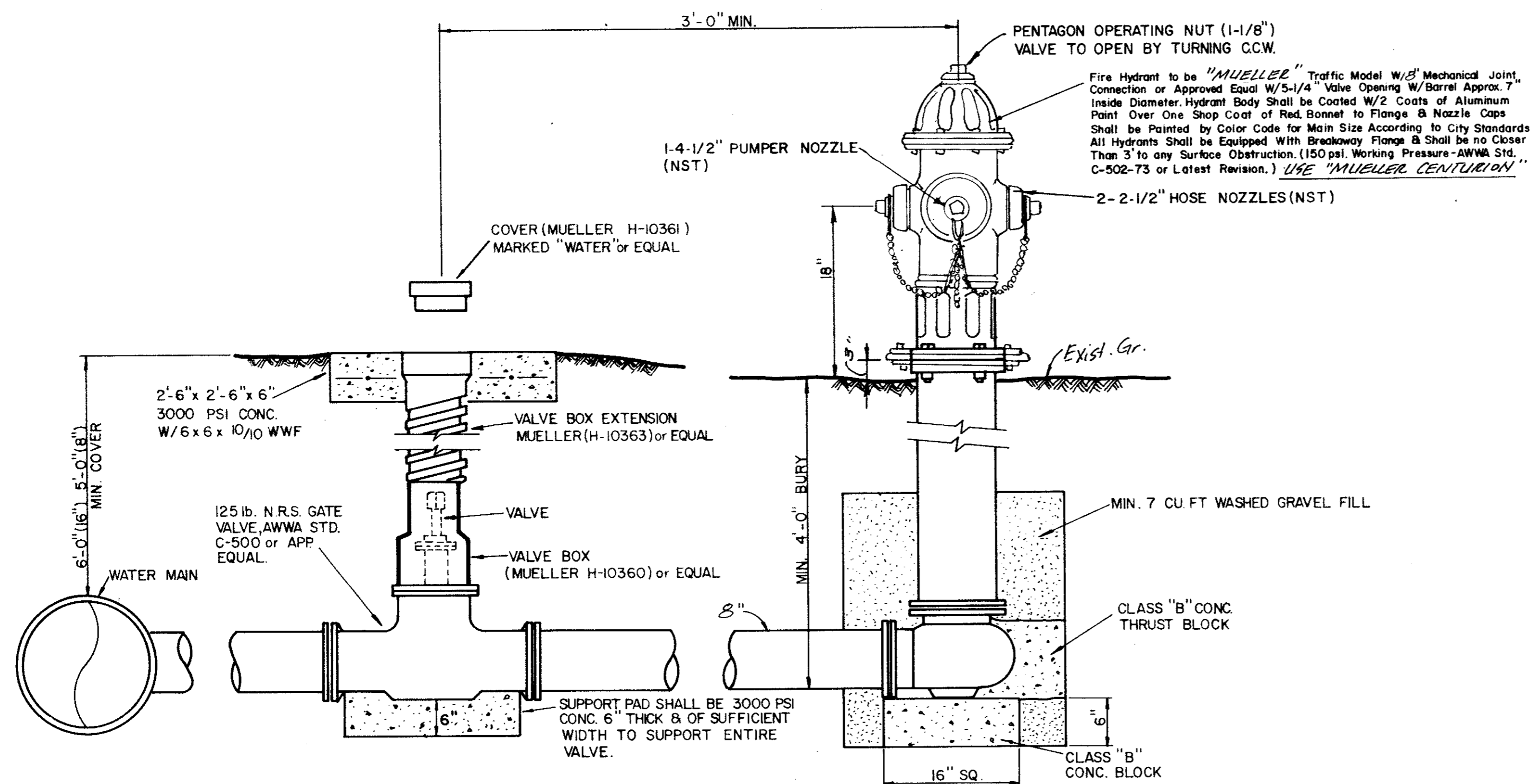
- CONCRETE SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES, TYPE I PORTLAND CEMENT, AND A DESIGNATED COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33.
- CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4".
- ALL CONCRETE REINFORCING BARS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. FIELD BENT DOWELS AND NO. 3 BARS WHEN USED AS STIRRUPS, SHALL CONFORM TO ASTM A615, GRADE 40.
- CONCRETE SHALL BE PLACED IN PIER HOLES WITHIN 8 HOURS OF COMPLETION OF DRILLING. IF CONCRETE IS NOT PLACED WITHIN 8 HOURS, THEN THE PIER HOLE SHALL BE EXTENDED AN ADDITIONAL 8 FEET DOWNWARD. CASING OF THE PIER HOLES MAY BE REQUIRED BY FIELD CONDITIONS. EXTRA DEPTH AND CASING AT CONTRACTOR'S EXPENSE.
- BOTTOM ELEVATIONS OF DRILLED SHAFTS ARE SHOWN FOR BIDDING PURPOSES ONLY. THE REQUIRED LENGTH FOR THE DRILLED SHAFTS SHALL BE BASED ON THE FOLLOWING CRITERIA:
 - MINIMUM LENGTH BELOW BOTTOM OF GRADE BEAM SHALL BE 15'-0".
 - MINIMUM PENETRATION INTO UNWEATHERED LIMESTONE SHALL BE 6'-0".
 THE REQUIRED LENGTH OF THE DRILLED SHAFTS SHALL BE THE LONGER LENGTH THAT CAN BE OBTAINED USING THE ABOVE LISTED CRITERIA. REQUIRED LENGTHS OF THE DRILLED SHAFTS SHALL BE DETERMINED DURING DRILLING OPERATIONS.

REEDCON
REEDCON, INC.
STRUCTURAL ENGINEERS

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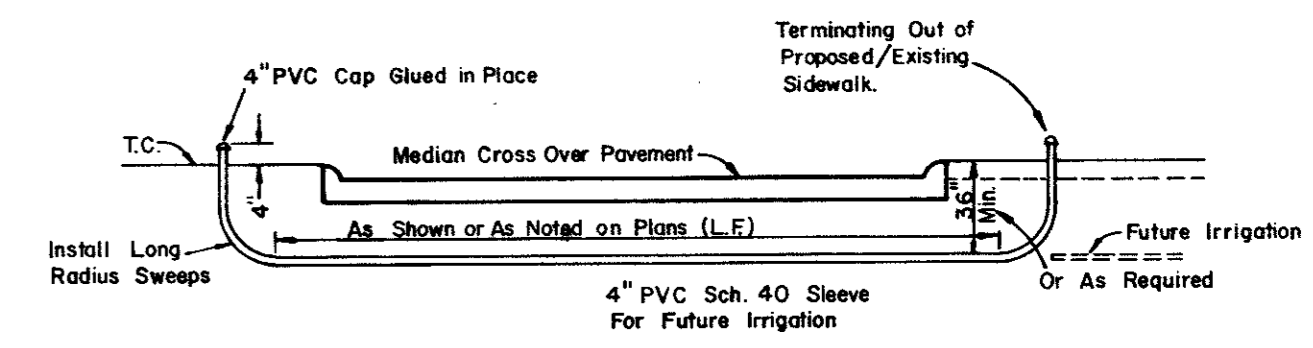
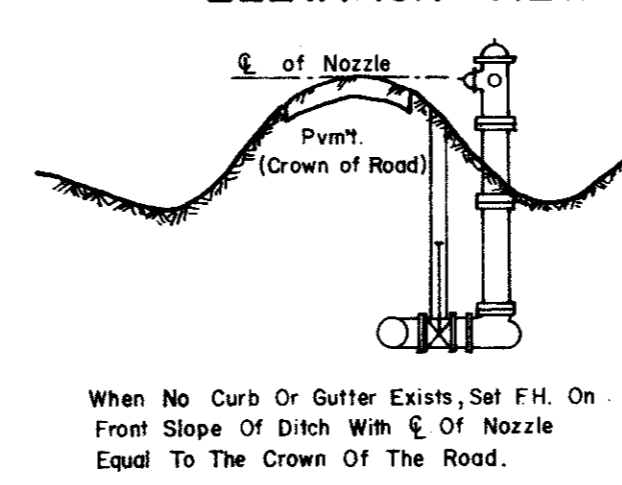
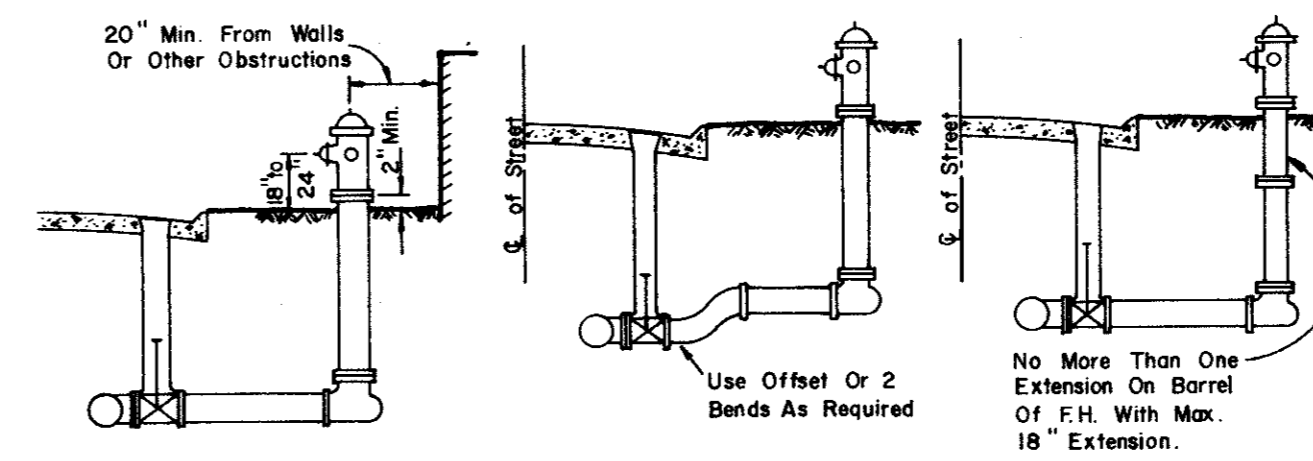
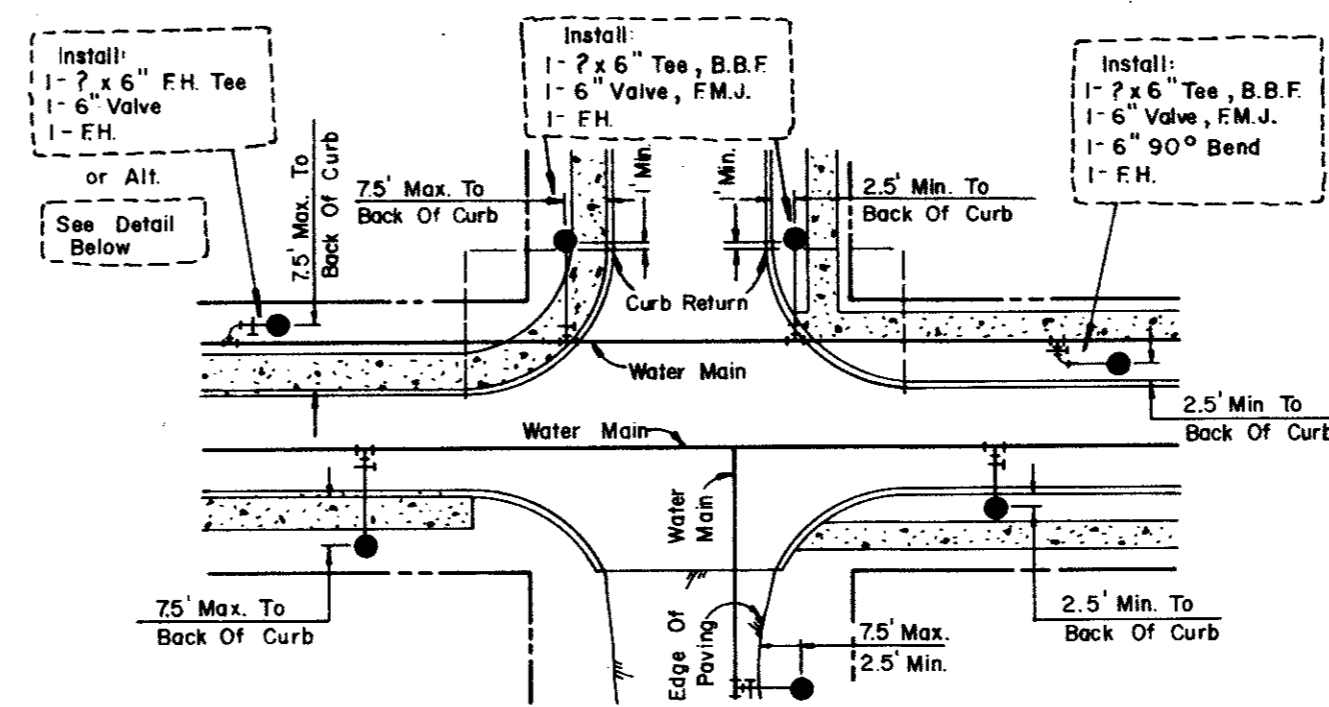


No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS 24" φ WATER LINE RELOCATION 24" W.L. THRUST RESTRAINT DETAILS			
GINN, INC. Consulting Engineers Dallas, Texas			
Designed - S.C.R.	Drawn - S.C.R.	Date - JUNE, 1990	Job No. - 90492
Approved -	Checked - S.C.R.	Scale -	Sheet 4 of 6

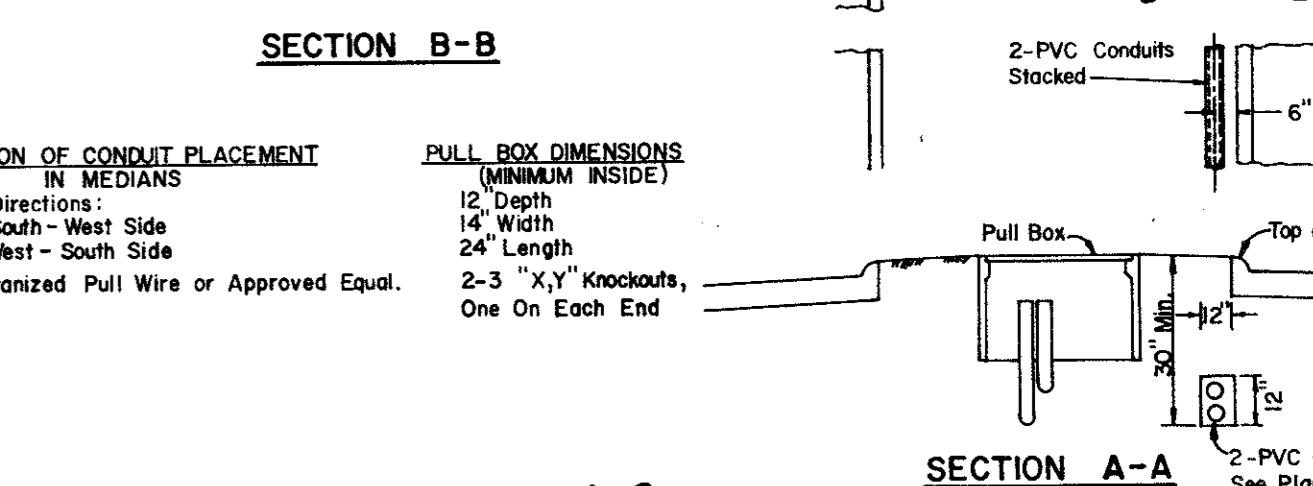
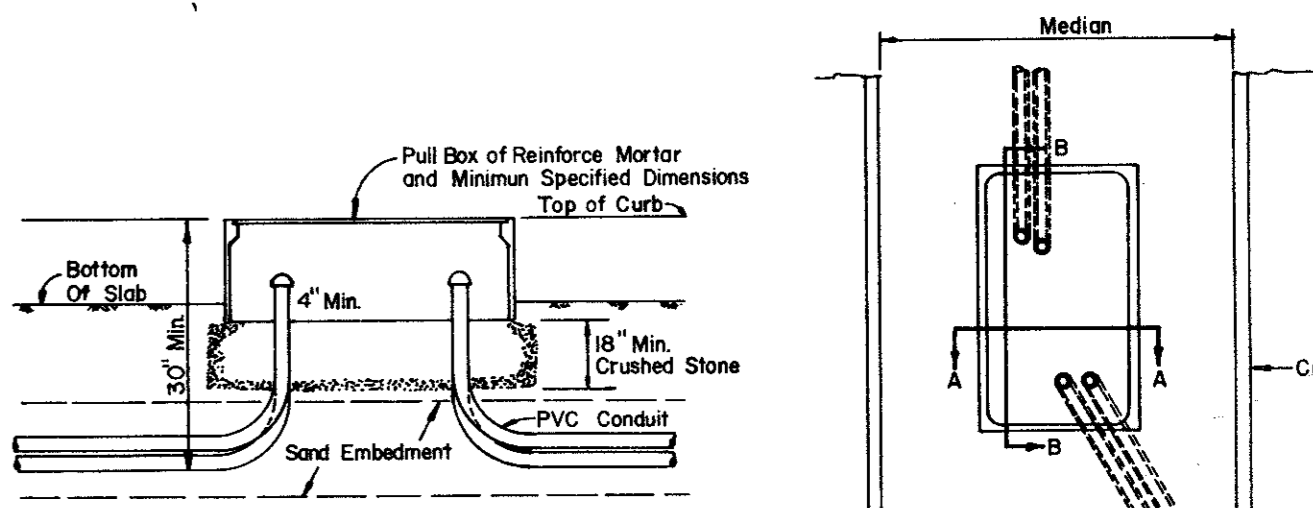


GATE VALVES AND VALVE BOXES.

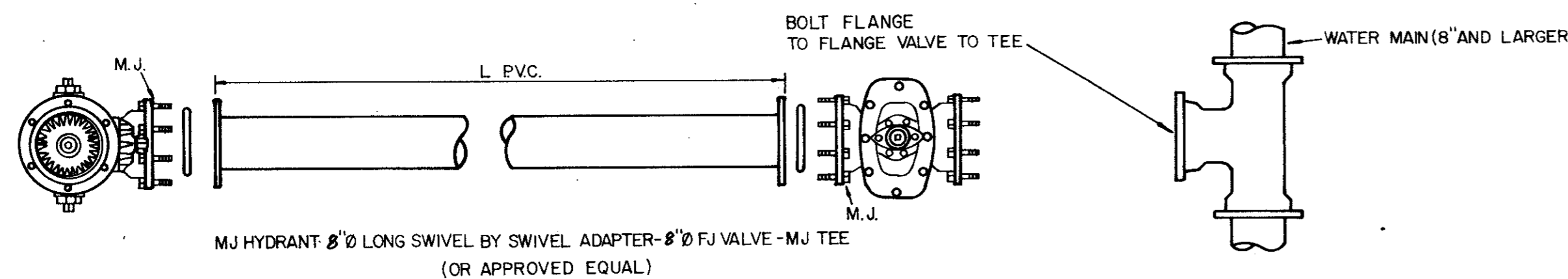
- GATE VALVES SHALL BE IRON BODY, BRONZE OR BRASS MOUNTED, NON-RISING STEM, PARALLEL SEAT TYPE. VALVES SHALL BE OF EQUAL OR GREATER PRESSURE CLASS THAN THE PIPING IN WHICH THEY ARE TO BE INSTALLED.
- VALVE BOXES SHALL BE CAST IRON AND SHALL BE OF SUFFICIENT LENGTH AND DIAMETER TO OPERATE ALL VALVES BURIED IN THE GROUND. COVERS SHALL BE MARKED "WATER." THE BOXES SHALL REST ON THE VALVE AND BE ADJUSTED SO THAT THE COVER MAY BE SET FLUSH WITH THE FINISHED GRADE.



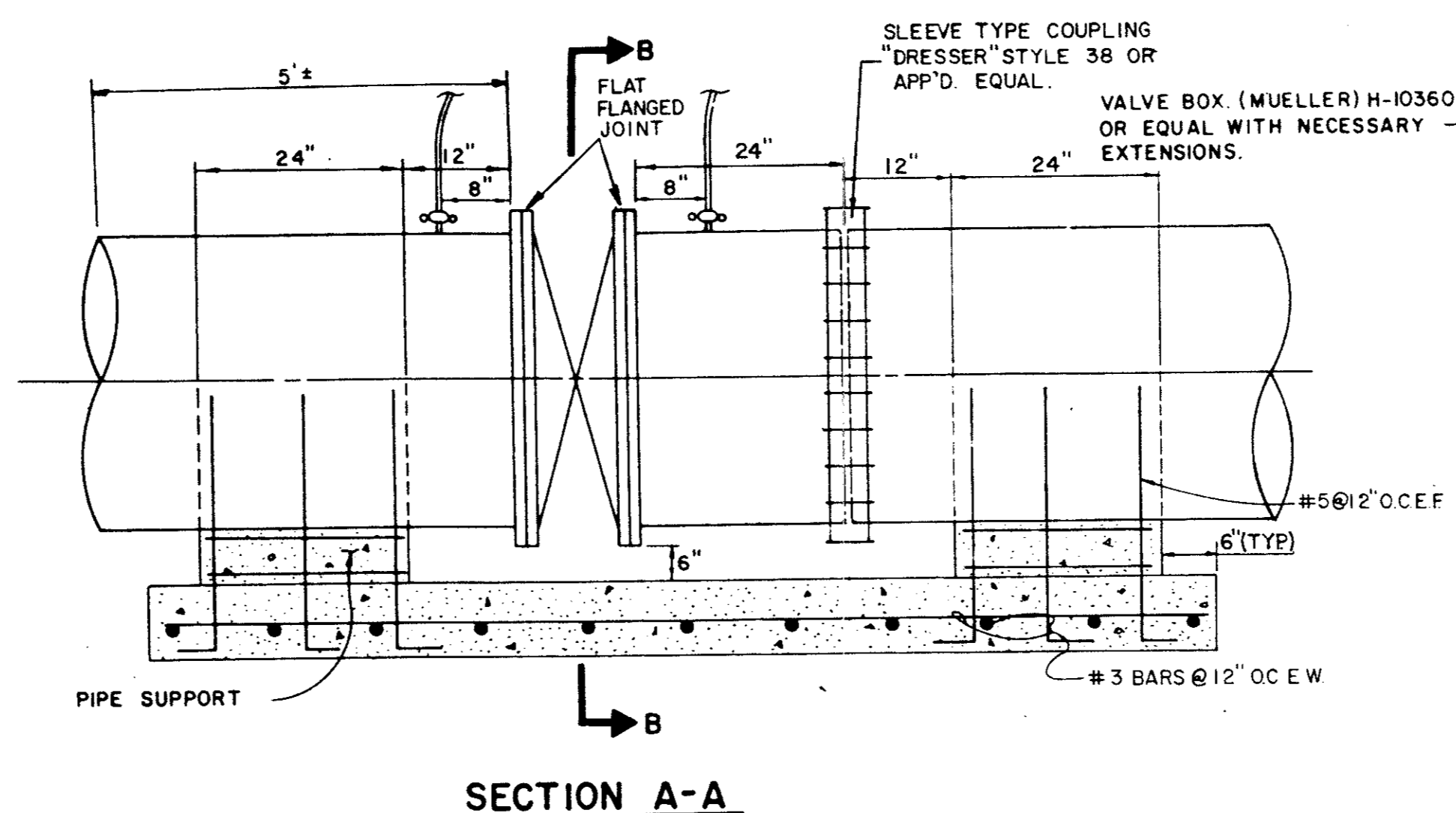
PVC SLEEVE FOR FUTURE IRRIGATION
N.I.C.



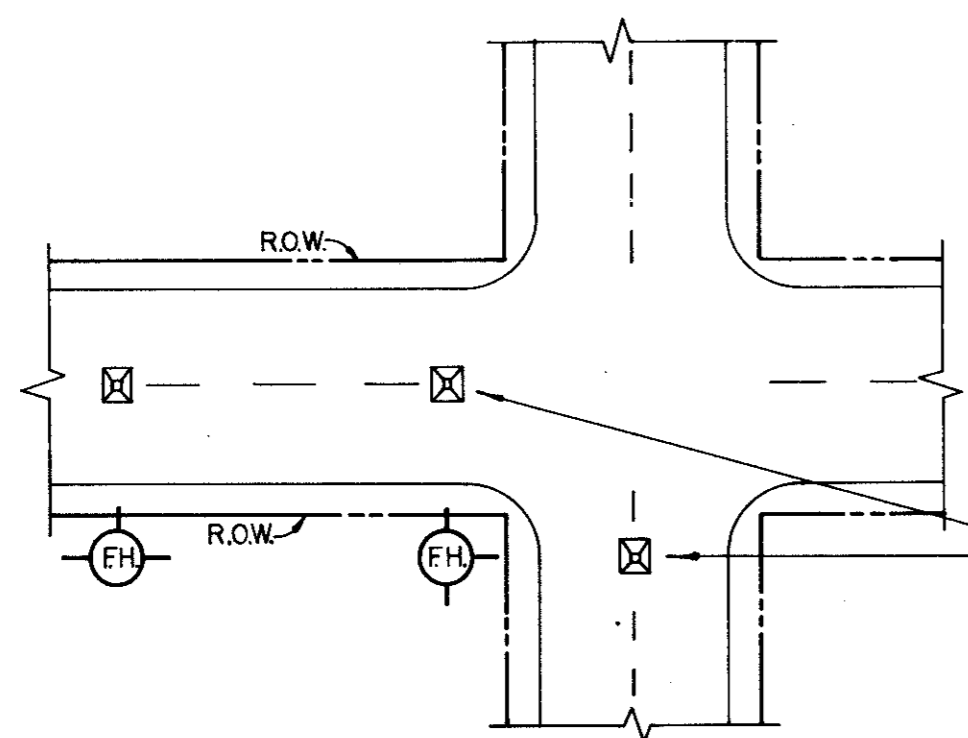
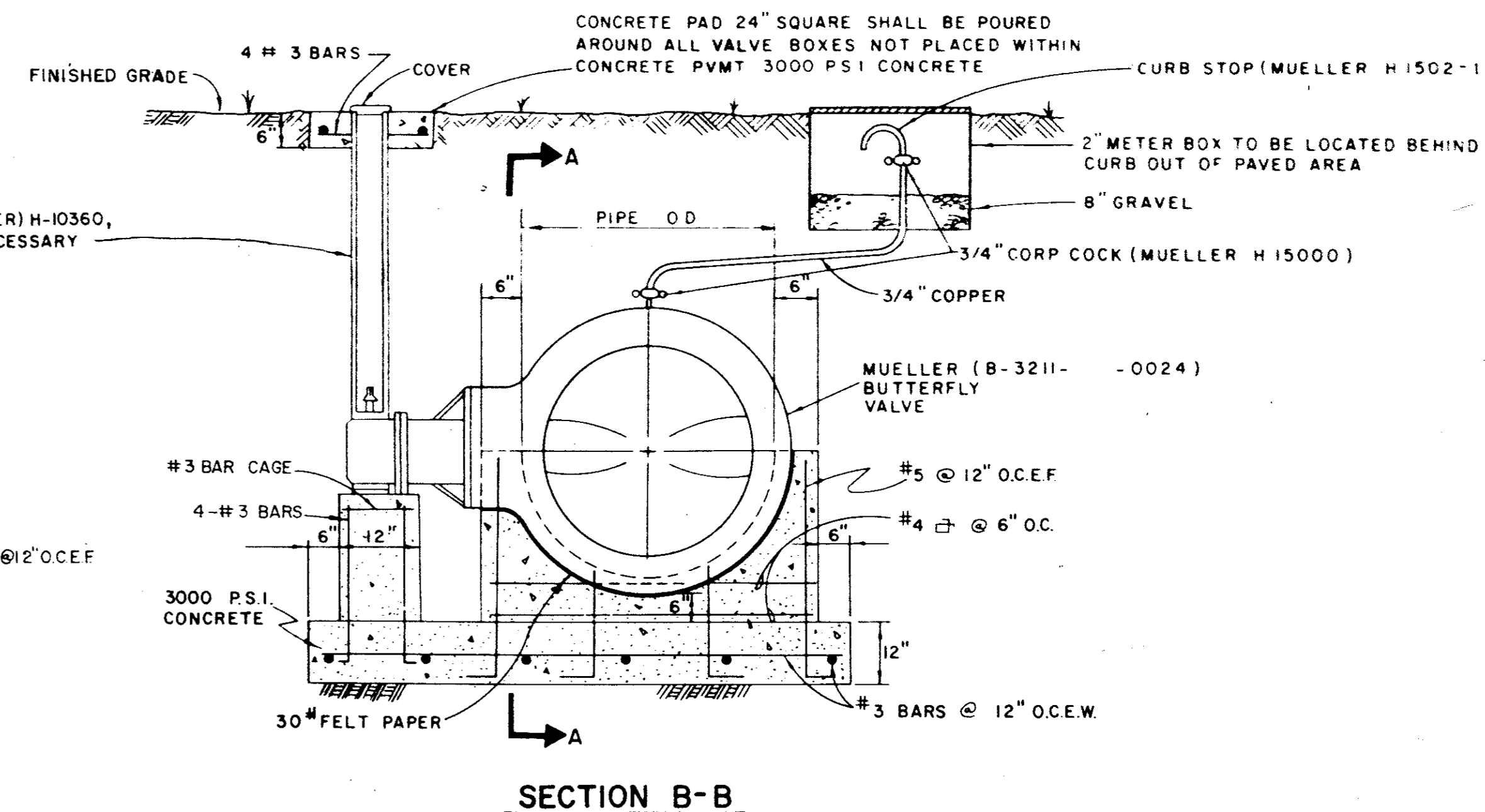
PULL BOX & CONDUIT DETAIL
N.I.C.



TYPICAL FIRE HYDRANT INSTALLATION



BUTTERFLY VALVE DETAIL



TYPICAL FIRE HYDRANT REFLECTOR INSTALLATION

A BLUE STIMSONITE FIRE-LITE REFLECTOR (OR APPROVED EQUAL) TO BE PLACED IN THE CENTER OF STREET OPPOSITE FIRE HYDRANTS. THE INSTALLATION OF THIS REFLECTOR SHALL BE AS PRESCRIBED BY THE MANUFACTURER.

No.	Revision	By	Date
STANDARD CONSTRUCTION DETAILS			
WATER			
FIRE HYDRANTS, PULL BOXES			
AND VALVES			
GINN, INC.			
Consulting Engineers Dallas, Texas			
Designed -	Drawn -	Date - JUNE 1970	Job No. - 70442
Approved -	Checked -	Scale - NONE	Sheet 5 of 6

SDI6

