

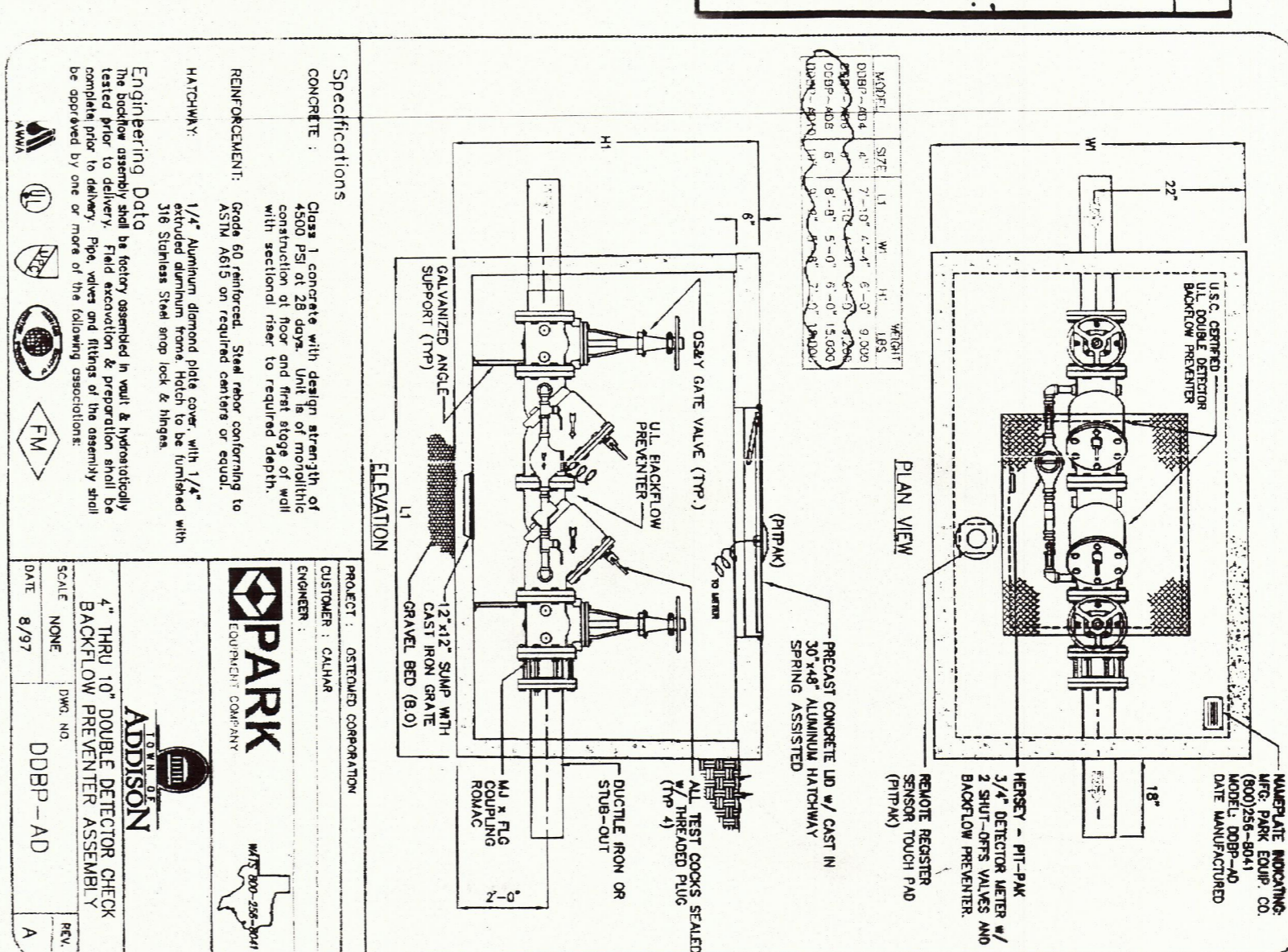
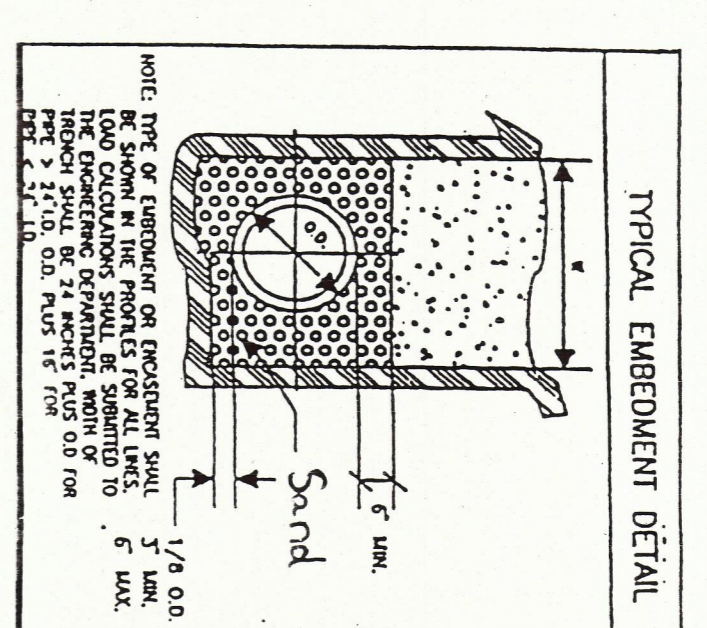
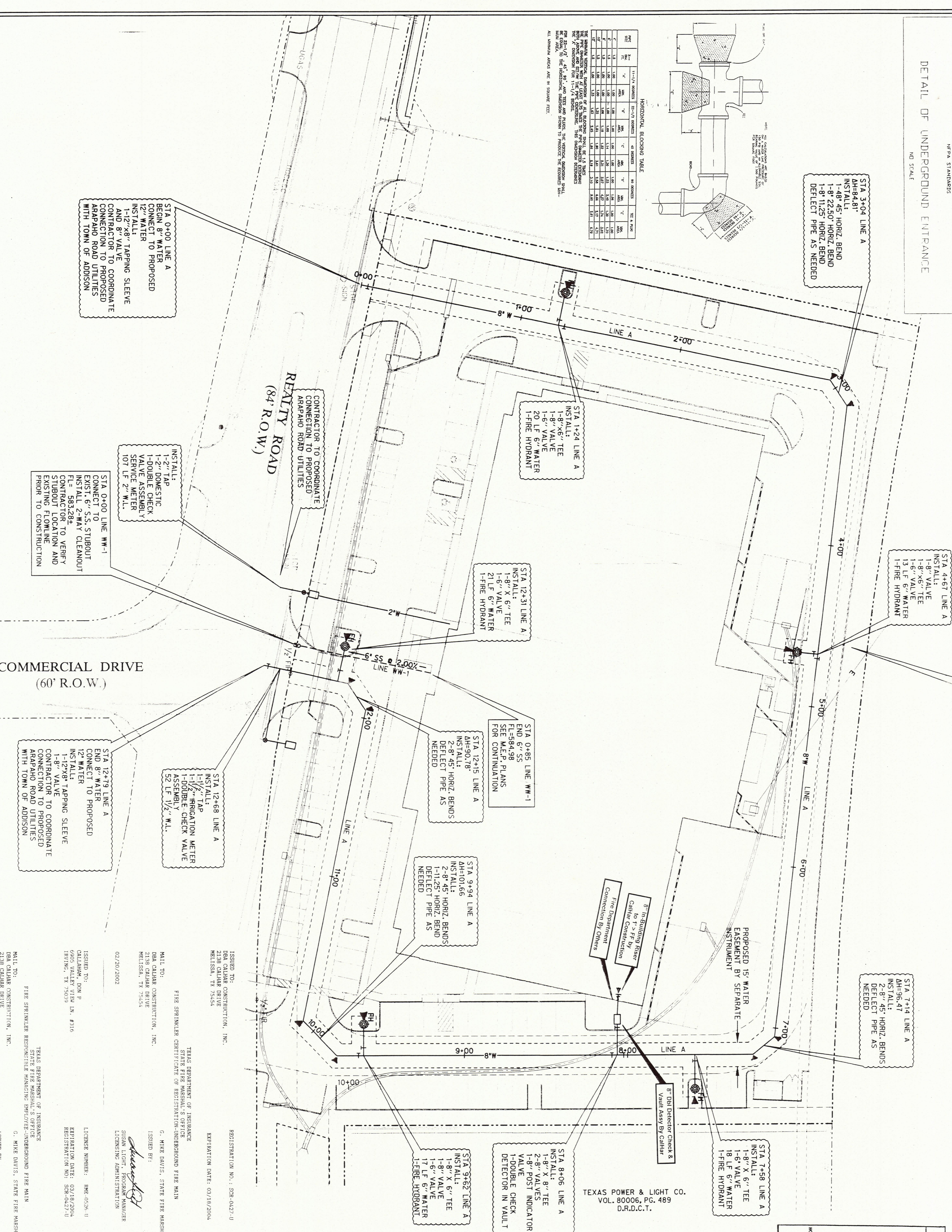
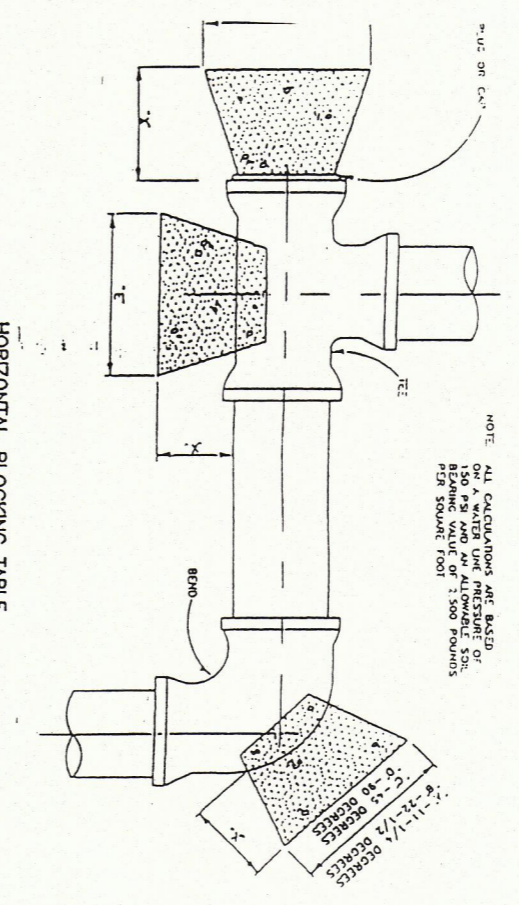
SOUTHERN PACIFIC RAILROAD
(100' R.O.W.)

CAUTION: EX. 60' WATER LINE

ENGINEERING STANDARDS FOR TRENCH WIDTHS

INSIDE DIAMETER OF PIPE	TRENCH WIDTH
8"	MIN 24"
12"	MAX 36"

THE TRENCH TO PROVIDE A BEARING SURFACE ON UNDISTURBED SOIL AND CONCRETE IS POURED TO FIT AGAINST AS MUCH OF THE FITTING WITHOUT INTERFERING WITH ACCESS TO FITTING JOINTS



UNDERGROUND & SITE PLAN NOTES:

ALL NEW INSTALLATIONS TO CONFORM TO City of Addison PUBLIC WORKS, FIRE DEPARTMENT, NFPA #13, AND NFPA #24 STANDARDS.

ALL MATERIALS ARE TO BE LISTED FOR USE IN CONJUNCTION WITH THE INSTALLATION OF THE NEW 8 INCH CLOSED FIRE LINE.

8 INCH UNDERGROUND PIPING TO BE AWMA C-900 PVC CLASS 200 DR17 AND/OR CLS2 DUCTILE IRON PIPE WITH MECHANICAL JOINT FITTINGS. PIPE ENTERING THE BUILDING SHALL BE CLASS 52 DUCTILE W/POLYMER-ALL FITTINGS TO BE RIBBED AND/OR THRUST BLOCKED IN ACCORDANCE WITH NFPA #24 AND NFPA #13.

PIPE SHALL BE VISUALLY INSPECTED PRIOR TO BACKFILL AND HYDROSTATICALLY TESTED TO 200 PSI FOR 2 HOURS OR AS REQUIRED BY CITY STANDARDS.

PIPING TO MAINTAIN 42 INCH MINIMUM COVER BELOW GRADE. TRENCHES ARE TO BE BACKFILLED WITH THE SPECIFIED EMBEDEDMENT FOR ALL PIPING. SAND OR CRUSHED SAND COMPACTED INTO PLACE. CITY OF ADDISON CALLS FOR SAND EMBEDEDMENT WHERE GROUND WATER IS NOT PROMINENT.

ALL PIPING IS TO BE FLUSHED AND TESTED IN ACCORDANCE WITH NFPA #24. ALL PIPING AND TESTING TO BE WITNESSED BY THE LOCAL AUTHORITIES PRIOR TO BACKFILLING.

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ISSUED TO: DBA CALHAR CONSTRUCTION, INC.
REGISTERED ENGINEER
MELISSA J. DEWITT
EXPIRATION DATE: 02/18/2004

ISSUED TO: TEXAS DEPARTMENT OF INSURANCE
FIRE SPRINKLER CERTIFICATE OF REGISTRATION-UNDERGROUND FIRE MAIN
G. MARK DAVIS, STATE FIRE MARSHAL
HELISSA, TX 75254

ISSUED TO: CALHAR CONSTRUCTION, INC.
FIRE SPRINKLER RESPONSIBLE MANAGER
SUSAN LIGHT, PROJECT MANAGER
LUCIANO, ADMINISTRATION
HELISSA, TX 75254

ISSUED TO: TEXAS DEPARTMENT OF INSURANCE
STATE FIRE MARSHAL'S OFFICE
G. MARK DAVIS, STATE FIRE MARSHAL
HELISSA, TX 75254

ISSUED TO: DBA CALHAR CONSTRUCTION, INC.
FIRE SPRINKLER RESPONSIBLE MANAGER
MELISSA J. DEWITT
HELISSA, TX 75254

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MELISSA J. DEWITT
HELISSA, TX 75254

CALHAR CONSTRUCTION, INC.
2138 Calhar Drive
Addicks, Texas 75424
972.838.2888(400)
972.838.2999(16x)

SR# 09427

Underground fire sprinkler main for:

Dorn-F. Calharn RME #0528

PROJECT: **Osteoiled Corporation**
Building Permit #: 02-048315
ADDRESS: **3885 Realty - Addison, Texas**

DATE: 02/29/2002 SCALE: 1"=30' PAGE: 1 of 1

02/29/2002