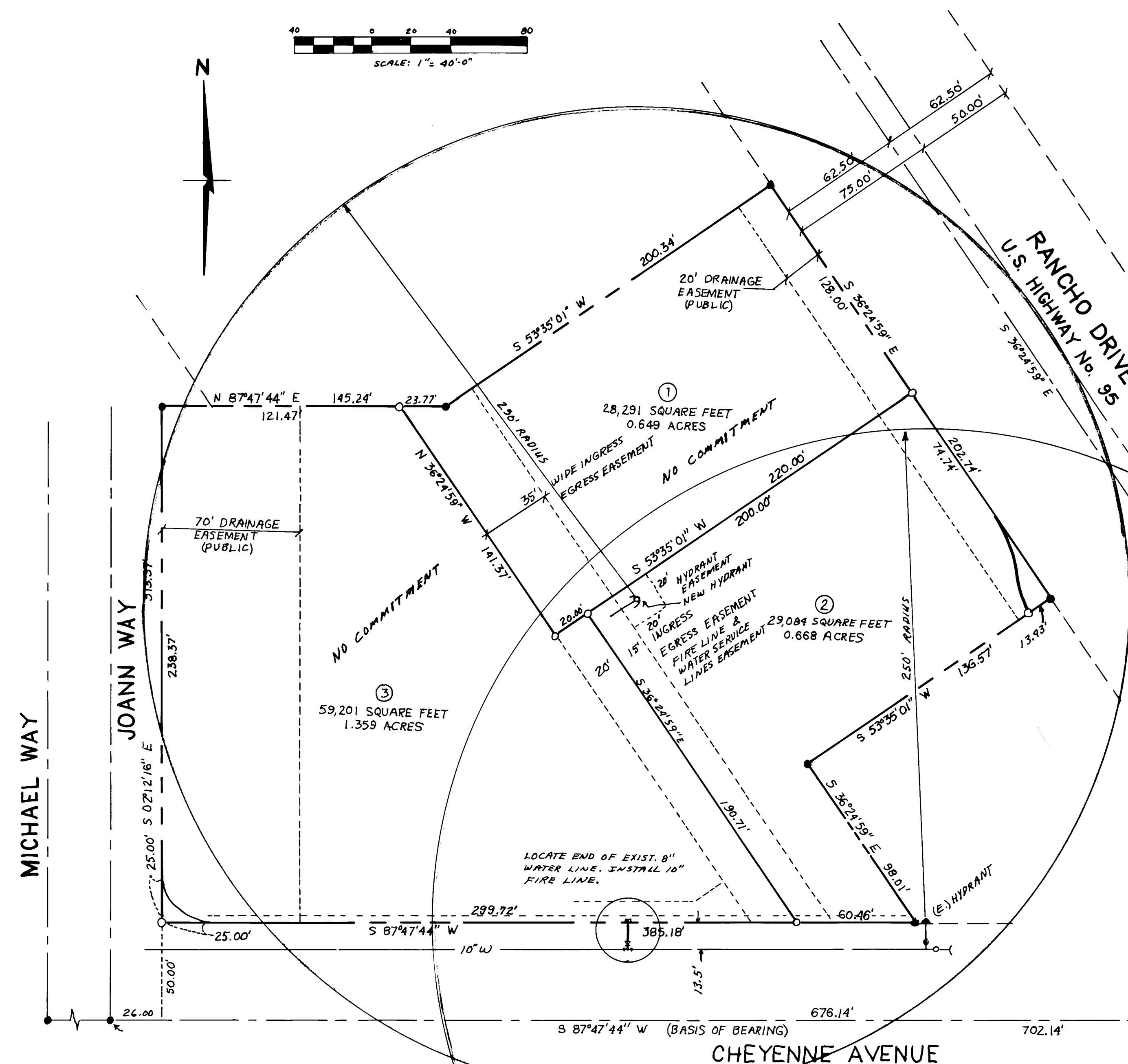
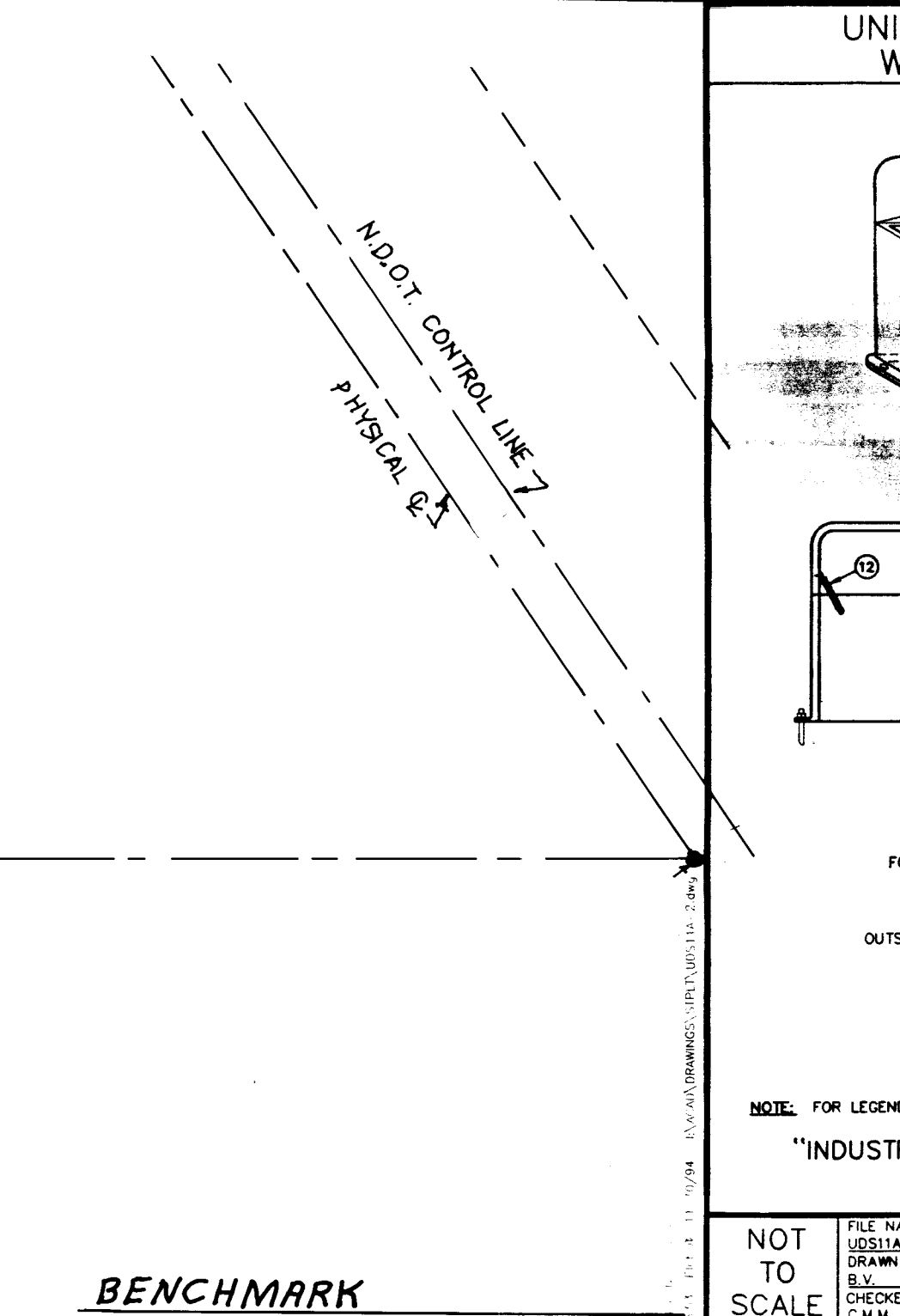
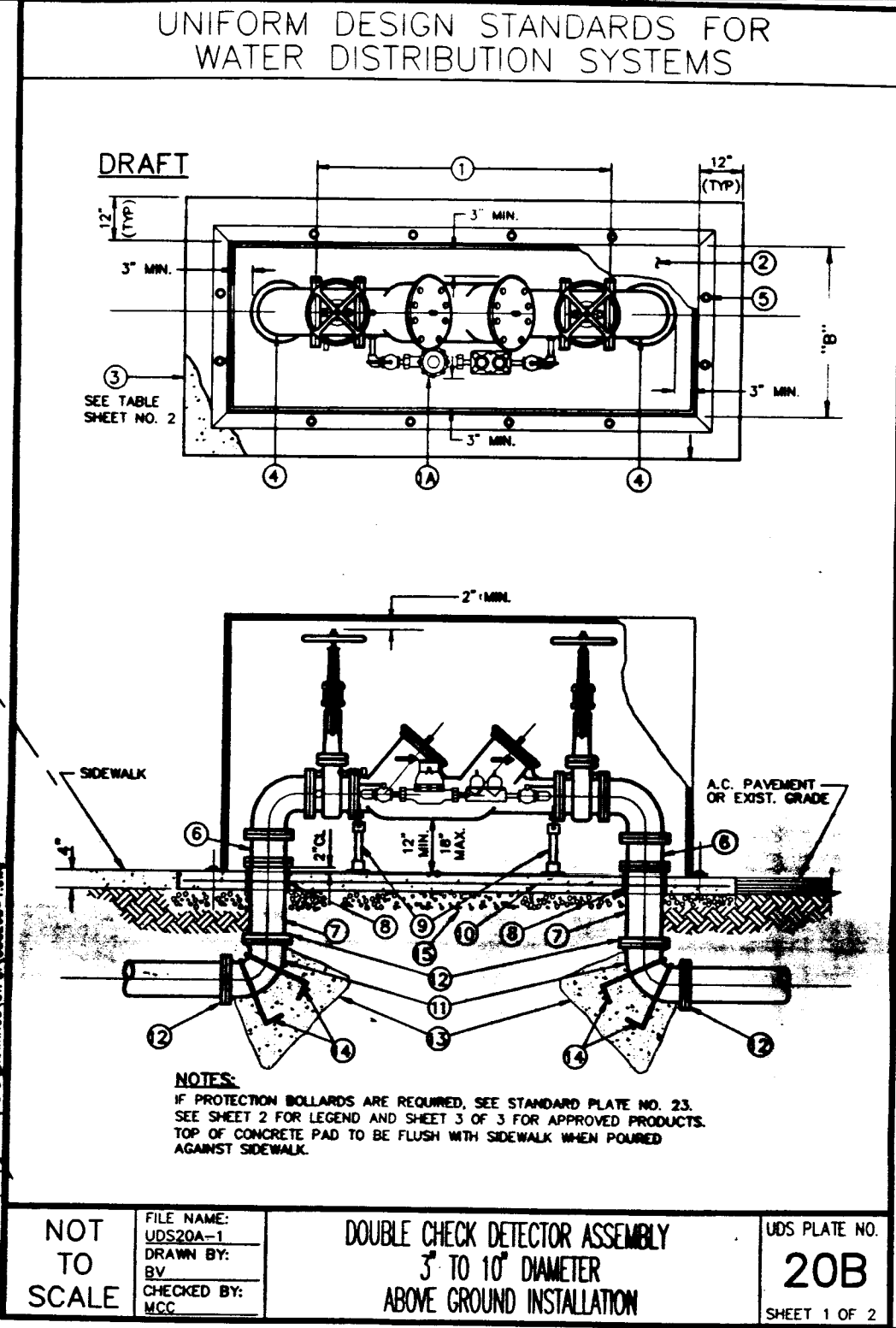
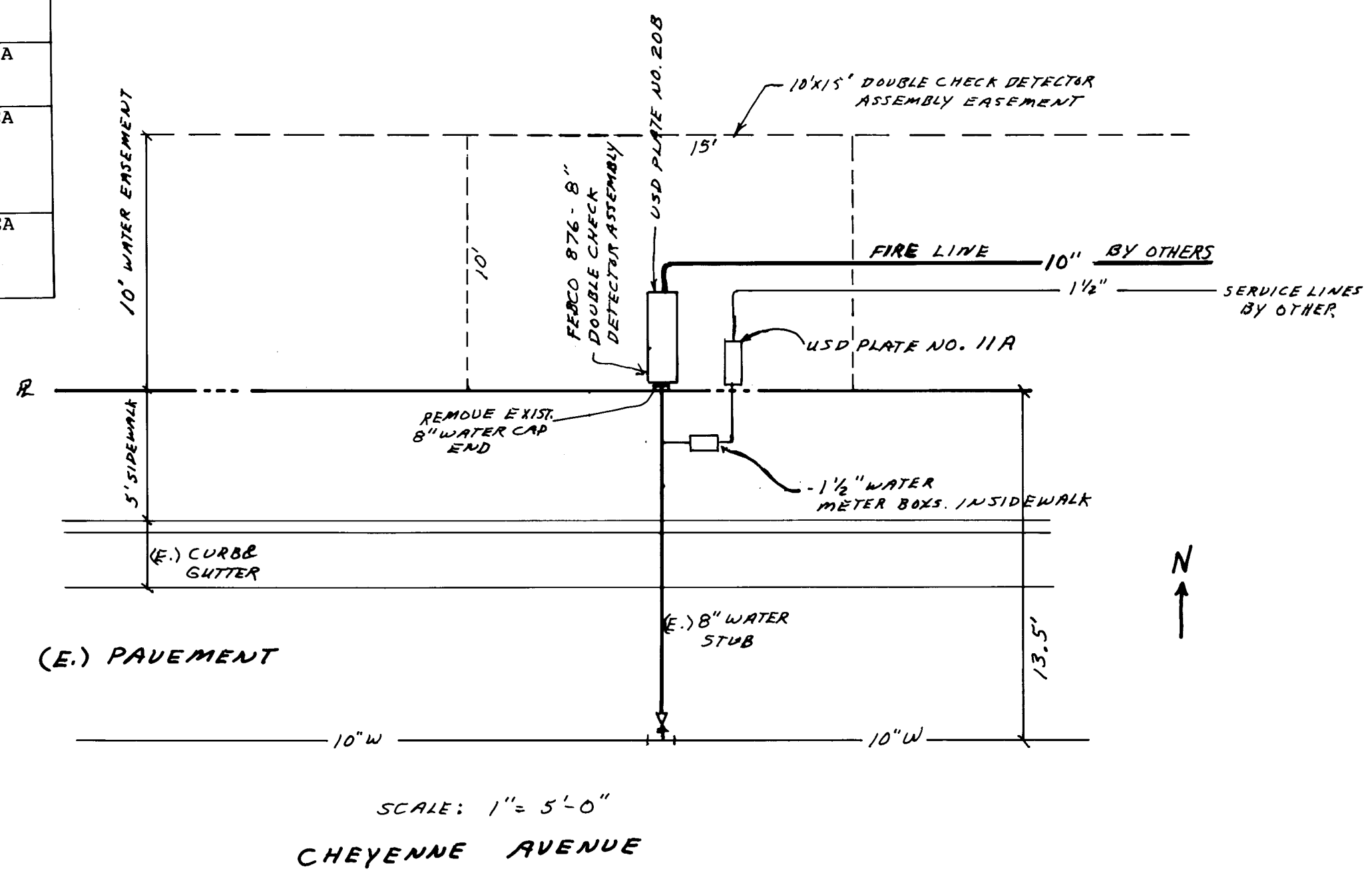




ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNITS
1.	Inst. Febco 876 8" Double Check Detector Assembly	1	EA
2.	Inst. 1 1/2" Water Meter Box	1	EA
3.	Inst. 1 1/2" Backflow Prevention Device Reduced Pressure Principle Assembly	1	EA
4.	Remove Existing 8" Plug w/thrust block Assembly.	1	EA



BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL NAVD 88:
STATION: CCBM, 12SS6, 2,241.203 FEET, RIVET & PLATE IN
TOP OF CURB, NW RETURN OF CHEYENNE AVE. AND RANCHO ROAD.

FIRE HYDRANT INSTALLATION

Fire Hydrant(s) to be installed in accordance with the UDACS Standard Plate No. 7 ESN.023

NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) PERMIT REQUIRED

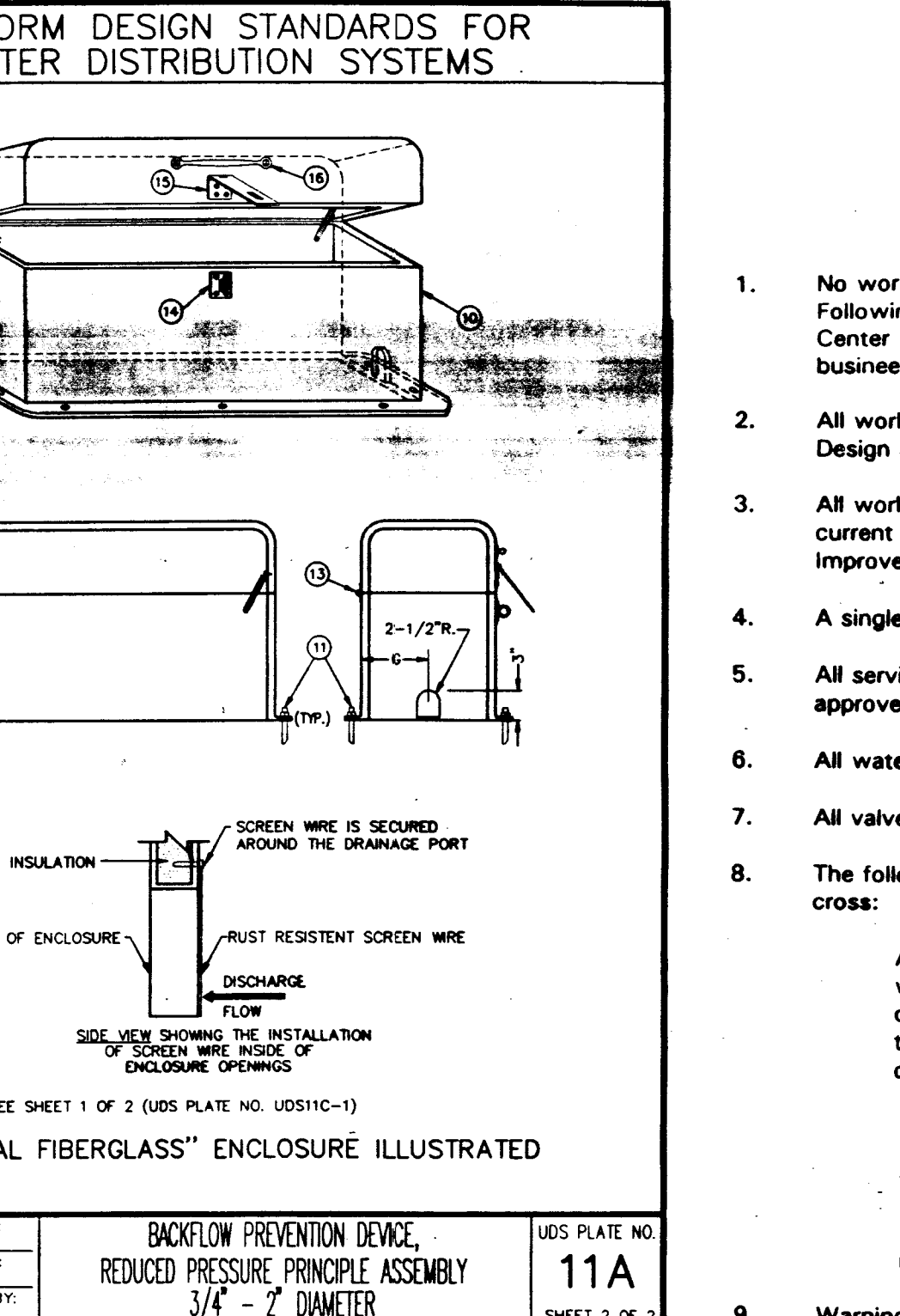
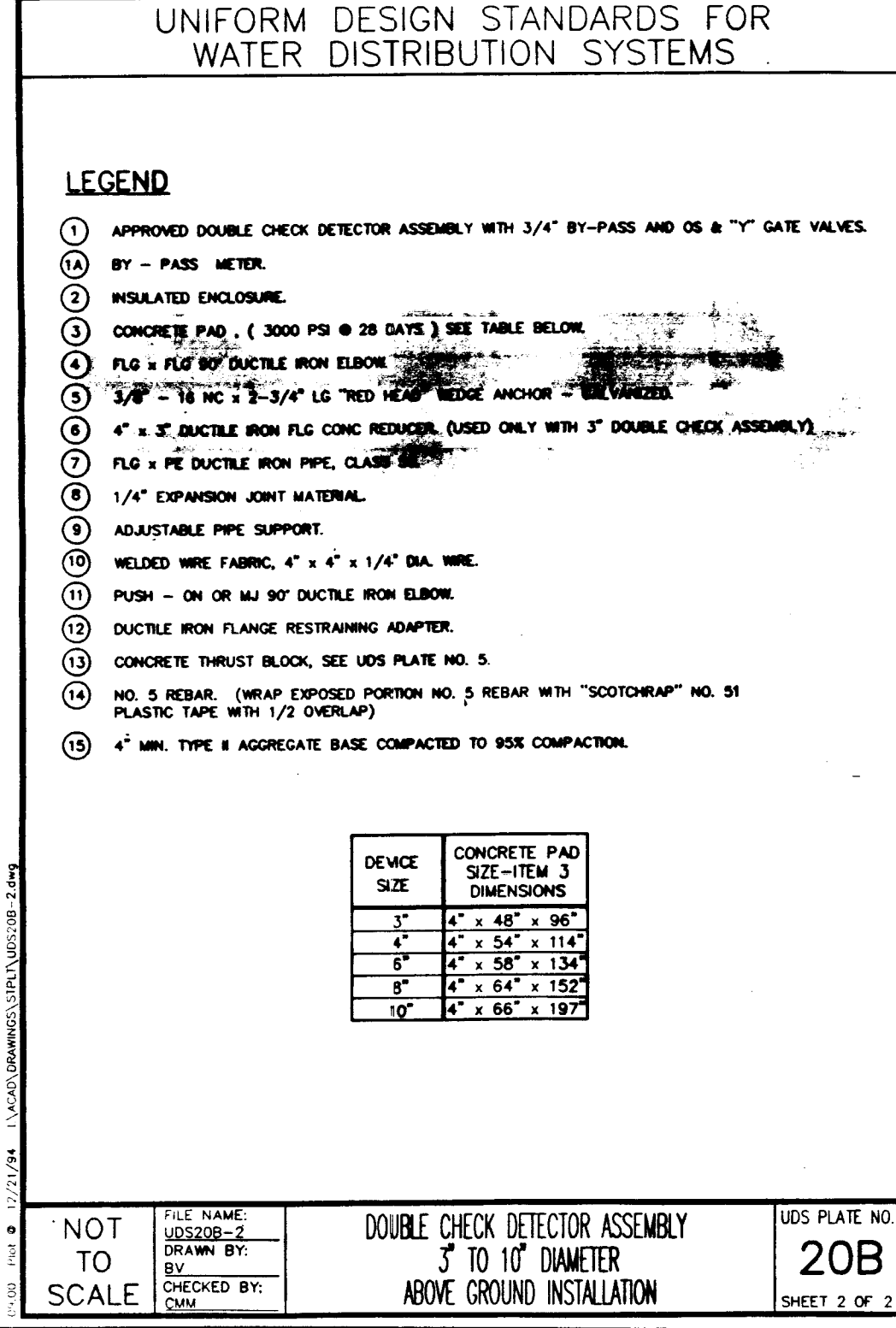
An approved NDOT Occupancy Permit shall be obtained through the District PRIOR to any construction within the NDOT right-of-way. ESN.023

REDUCED PRESSURE PRINCIPLE ASSEMBLY

Approved Reduced Pressure Principle Assembly (s) shall be installed per the UDACS Plate No. 11A. No water shall be taken from a service requiring backflow prevention until the reduced pressure principle assembly has been successfully tested by the LVVWD.

Any block wall or other fence material shall be designed and constructed around the outside of the easement (s) to allow the District direct access from the adjacent right-of-way. ESN.026

Double Check Detector Assembly 3" to 10" Deameter Above Ground Installation. UDS Plate No. 20B



LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

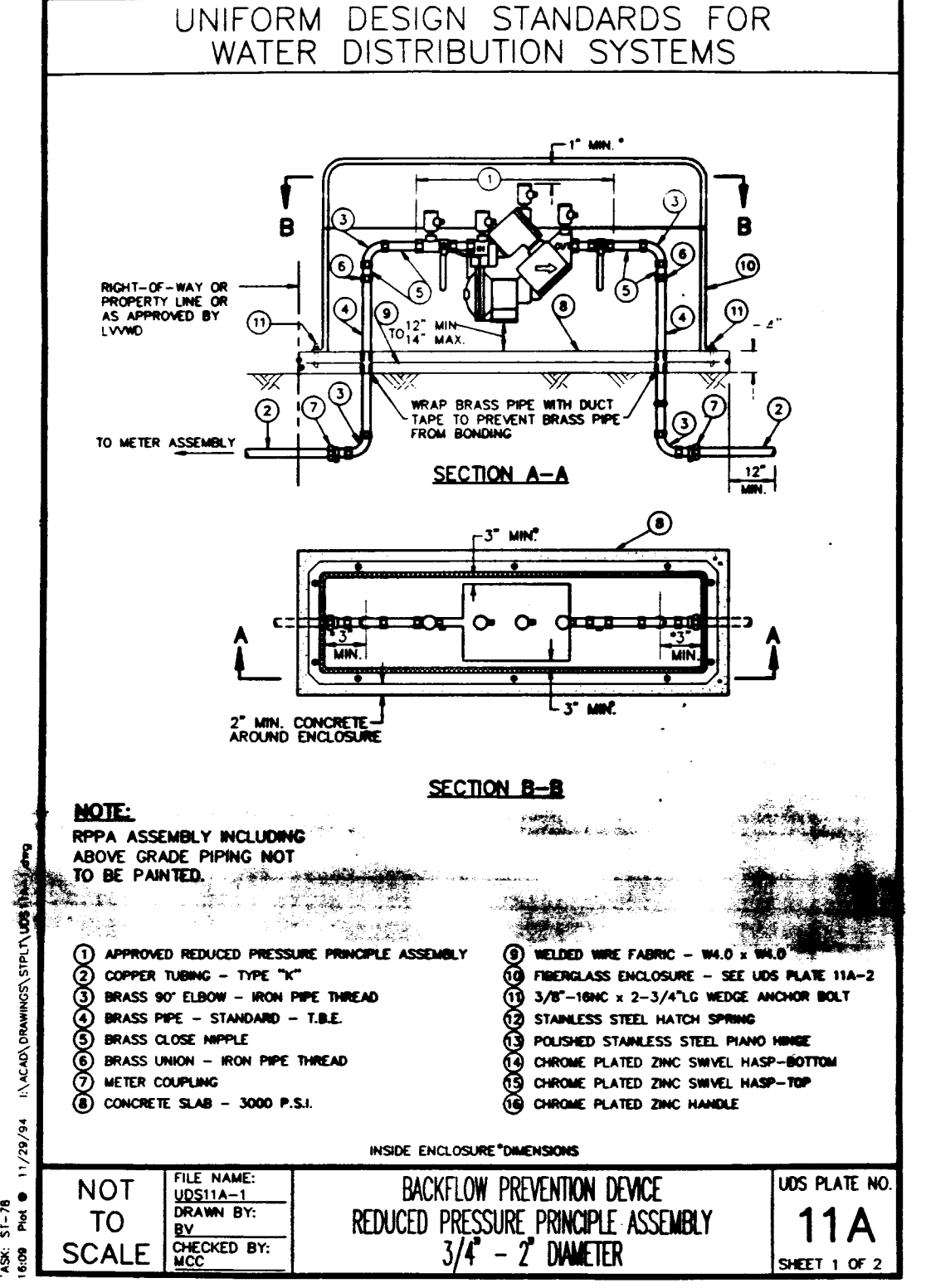
- No work shall begin until the water plans have been released for construction by the LVVWD. Following water plan approval, 48 hour notice shall be given to the LVVWD Communication Support Center (258-7171) prior to the start of construction. Notice must be given by 2:00 p.m. the business day prior to a LVVWD inspection.
- All work shall conform to the LVVWD's Standard Plates, Drawings, and Specifications and the Uniform Design and Construction Standards for Water Distribution Systems (UDACS), latest edition.
- All work, except as modified by these plans or by Note 2, shall be done in accordance with the most current draft or edition of the Uniform Standard Specifications for Public Works Construction, Clark County Area.
- A single pipe material shall be used throughout the project unless otherwise approved by the LVVWD.
- All service laterals two (2) inches in diameter and smaller shall be copper tubing with LVVWD approved service saddles.
- All water meter boxes shall be located outside of driveway areas.
- All valves shall be located outside of driveways, valley and curb gutters.
- The following requirements must be met in the event a water line and sanitary or storm sewer line cross:
 - Potable Water supply quality material.
 - Encasement, with four (4) inch concrete (minimum)
 - Sleeving with potable water supply quality pipe.
- Each provision must extend along the sanitary or storm sewer, on either side of the main, a minimum 10 foot distance perpendicular to the water main exterior.
- Warning tape shall be required over all mains, all six (6) inch diameter and larger service laterals, and any service lateral not installed perpendicular to the main in accordance with Standard Plate No. 27.
- All water facilities shall be filled, disinfected, pressure tested, flushed, filled and an acceptable water sample obtained, prior to connection to the LVVWD's distribution system.
- The contractor must obtain all meters two (2) inches and smaller from LVVWD Central Stores. Telephone 258-3152 forty-eight (48) hours prior to pickup.
- Construction may interrupt service, with LVVWD approval and proper notification, between the hours of 10 PM and 6 AM, Sunday through Thursday. Circumstances may require temporary service feeds be installed, without LVVWD reimbursement. Any temporary service feed must have prior LVVWD approval.
- All water facility construction materials used must be as listed on the LVVWD's Pre-Approved Materials and Manufacturers Listing for New Facilities, latest revision, or specifically approved on these plans.

APPROVED FOR CONSTRUCTION ESN.018

Wayne d. Phillips
LAS VEGAS VALLEY WATER DISTRICT

(SEE SHEET 6)
CLV FIRE MARSHALL

DATE 1-29-98



LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

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APPROVED FOR CONSTRUCTION ESN.018

Wayne d. Phillips
LAS VEGAS VALLEY WATER DISTRICT

(SEE SHEET 6)
CLV FIRE MARSHALL

DATE 1-29-98

ARMSTRONG ENGINEERING & DEVELOPMENT, LTD.
3840 N. BRUCE STREET
LAS VEGAS, NEVADA 89030
(702) 220-7220

REVISIONS

NO.	DATE	DESCRIPTION
1	12-11-97	DATE: 12-11-97
2	12-11-97	DRAWN: WCA
3	12-11-97	SCALE: AS SHOWN
4	12-11-97	JOB: JACK IN THE BOX
5	12-11-97	SHEET 4 A

PROFESSIONAL ENGINEER
WILLIAM C. ARMSTRONG
CIVIL
No. 07607

DATE: 12-11-97
DRAWN: WCA
SCALE: AS SHOWN
JOB: JACK IN THE BOX
SHEET 4 A

OF 7 SHEET(S)

