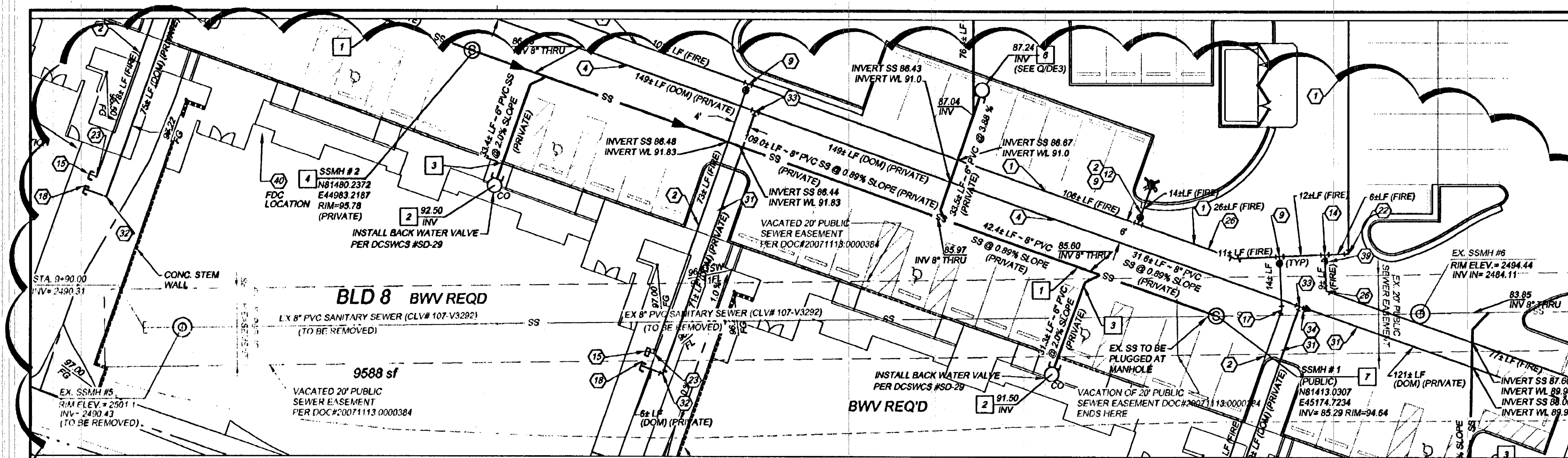
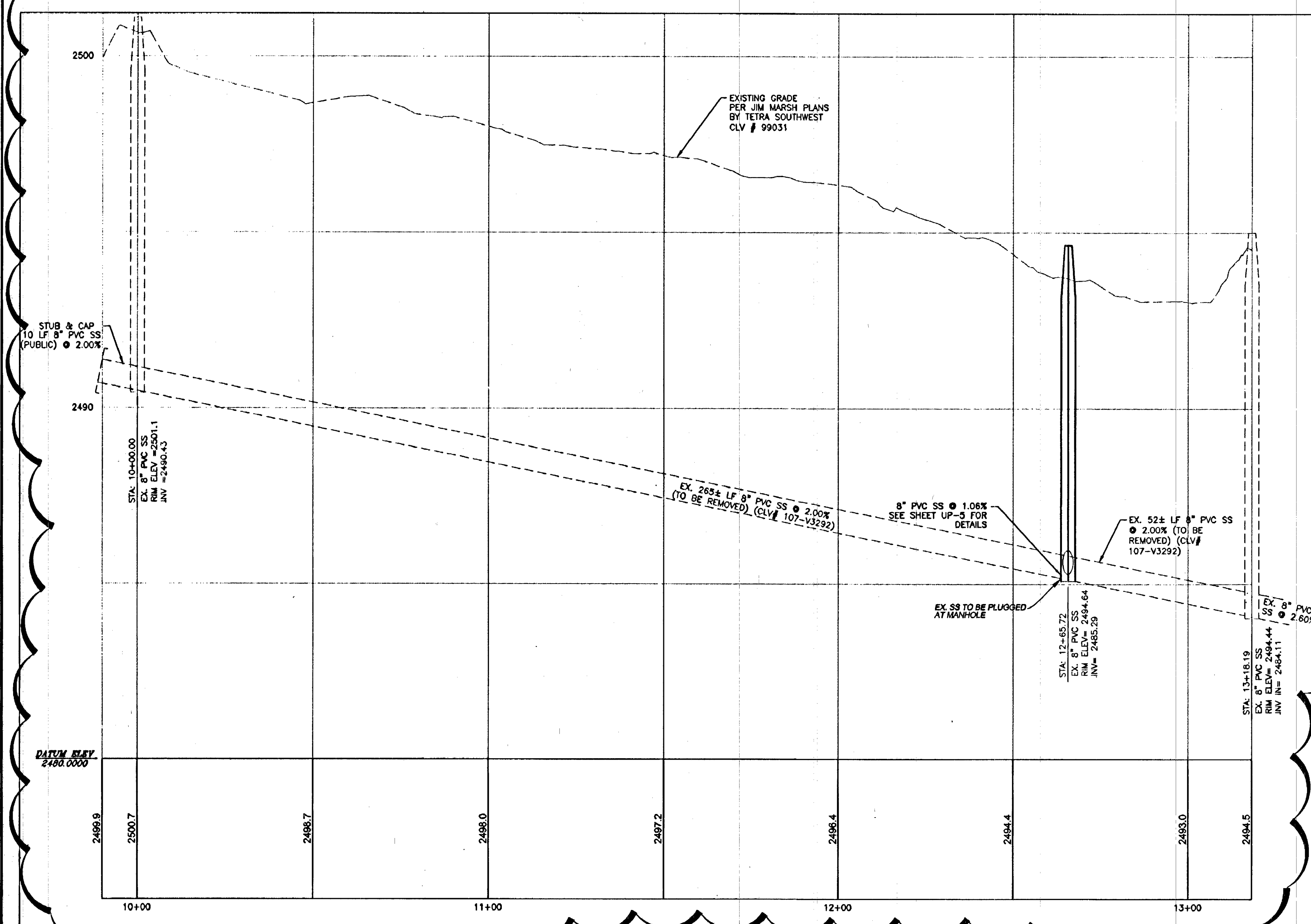




EX 8" PVC SS



EX 8" PVC SS
HORIZONTAL : 1"=20'
VERTICAL : 1"=2'

BASIS OF BEARINGS:
NORTH 89°29'41" EAST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 28, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M. AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, AS DETERMINED BY PUBLISHED VALUES BY THE NATIONAL GEODETIC SURVEY FOR THE LAS VEGAS VALLEY WATER DISTRICT CONTINUOUSLY OPERATING REFERENCE STATIONS: NVCS (CARLTON SQUARE), LVND (HAWK), NVTR (TROPICANA).

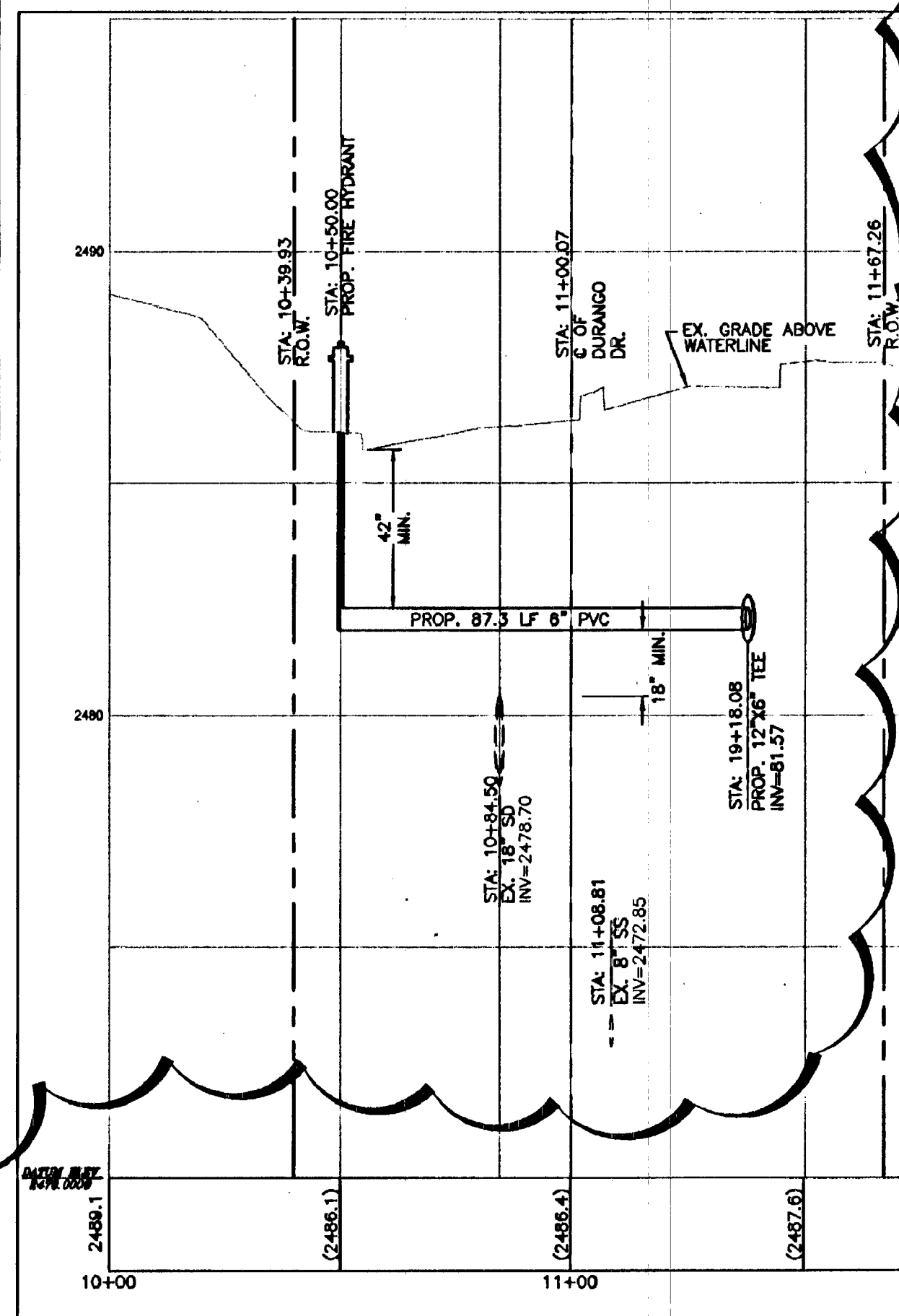
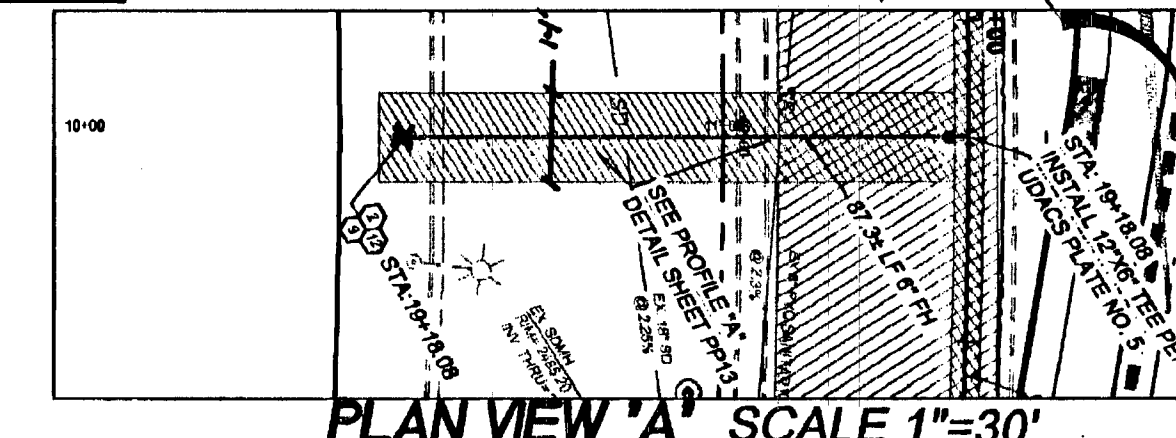
BENCHMARK:
81100 2004 RILEY & PLATE IN CONCRETE PAD (TELEPHONE EQUIPMENT) AT THE NORTHEAST CORNER OF TROPICAL PARKWAY AND EL CAPITAN WAY = 770.5491m = 2528.04ft.

PROJECT DATUM ADJUSTMENT
2528.04 + 0.40 = 2528.44 PROJECT DATUM

LEGAL DESCRIPTION
A PORTION OF THE 1/4 SECTION 28, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M. AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, AS DETERMINED BY PUBLISHED VALUES BY THE NATIONAL GEODETIC SURVEY FOR THE LAS VEGAS VALLEY WATER DISTRICT CONTINUOUSLY OPERATING REFERENCE STATIONS: NVCS (CARLTON SQUARE), LVND (HAWK), NVTR (TROPICANA).

GENERAL CONSTRUCTION NOTES:

1. DETECTOR/PIPE LOCATOR RIBBON, AND LOCATOR BALLS WILL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE 27 OVER ALL WATER MAINS.
2. ENGINEER TO PROVIDE CUT SHEETS AND SURVEY STAKING TO CONTRACTOR AND INSPECTOR FOR FIELD VERIFICATION OF INSTALLATION INVERT.



PROFILE 'A'
PROP. FH LATERAL HORIZONTAL : 1"=30'
VERTICAL : 1"=3'

NOTE:
ALL SEWERS/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

NOTE:
ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CLSM.

NOTES:

INSTALL WATERLINE IN STEEL CASING PER UDACS PLATES No. 15 AND 16. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF CASING. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS.

NOTE:
REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.

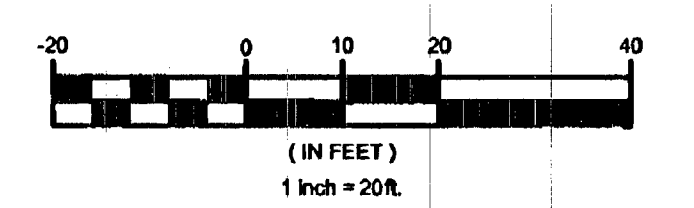
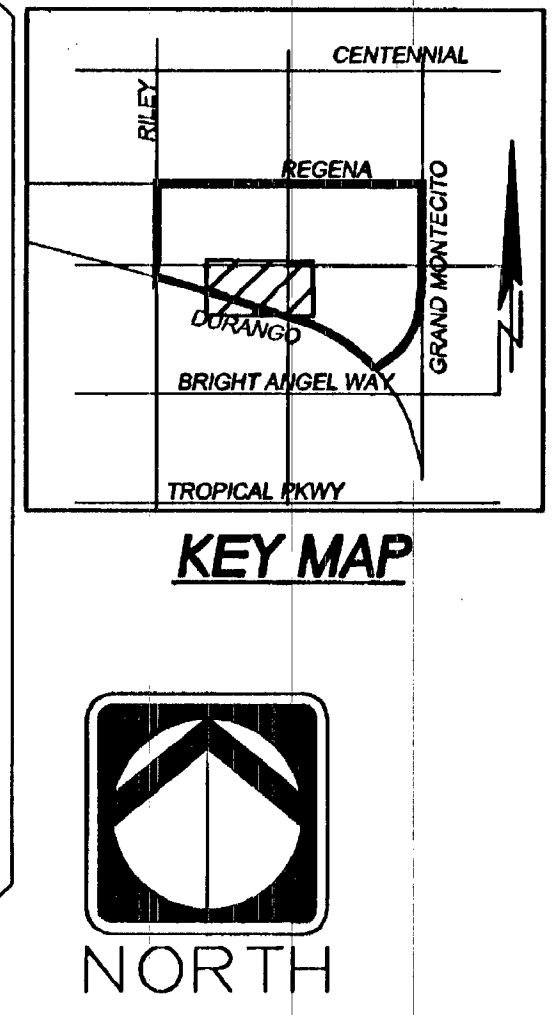
WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.08.01 AND 2.08.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

NOTE:
DURING INSTALLATION, THE CONTRACTOR MUST INSURE THAT THE WATER LINE, WHEN INSTALLED, HAS CORRECT AMOUNT OF COVER OVER THE CENTERLINE OF THE WATER LINE IN ACCORDANCE WITH UDACS SECTION 2.17.

UTILITY LEGEND

EXISTING WATER LINE WISIZE	EXISTING GATE VALVE
PROPOSED WATER LINE WISIZE	PROPOSED WATER LATERAL
PROPOSED FIRE HYDRANT	PROPOSED FIRE HYDRANT
EXISTING SEWER MANHOLE	PROPOSED SEWER LATERAL
PROPOSED SEWER LATERAL	PROPOSED SEWER LINE WISIZE
PROPOSED SEWER LINE WISIZE	PROPOSED SEWER MANHOLE
PROPOSED SEWER MANHOLE	0" LIP DRIVEWAY OR HANDICAP PARKING
REDUCER	BACKWATER VALVE PER SD-29
APPROXIMATE LOCATION OF CONCRETE DRIVEWAY	2" MILL AND OVERLAY
PAVEMENT PATCH AND REPLACEMENT	



WATER NOTES

No.	ITEM	UNIT	PUBLIC QUANTITY
1	INSTALL 8" PVC WATER LINE (FPW), PER UDACS PLATE No. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	383
2	INSTALL 8" WATER LINE (FPW), PER UDACS PLATE No. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	142
3	NOT BEING USED	EA	-
4	INSTALL 4" WATER LINE (DOM), PER UDACS PLATE No. 6	LF	34
5	INSTALL 12"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS PLATE No. 22 & 8	EA	6
6	INSTALL 4" TURBINE METER PER UDACS PLT. No. 18A (WITH BYPASS) IN A VALVE PER UDACS PLATE No. C-175	EA	2
7	INSTALL 8" RPPA PER UDACS PLATE No. 110	EA	4
8	INSTALL 8" REDUCER	EA	-
9	INSTALL 8"x8" TEE PER UDACS PLATE No. 5	EA	5
10	INSTALL 4" 90° BEND PER UDACS PLATE No. 5	EA	2
11	INSTALL 8" WATER LINE (DOM), PER UDACS PLATE No. 6B & 6C (PVC, C-900, CL-150)	LF	-
12	INSTALL FIRE HYDRANT ASSEMBLY, INCLUDING GATE VALVE, PER UDACS PLATE No. 7	EA	5
13	INSTALL 4" DUAL RPPA PER DETAIL & UDACS PLATE No. 110	EA	2
14	INSTALL 8"x8" TEE PER UDACS PLATE No. 5	EA	2
15	INSTALL CAP AND BLOW OFF PER UDACS PLATE No. 6A, FIRE SPRINKLER RISER CONNECTION, SEE FIRE PROTECTION PLANS FOR CONTINUATION	EA	15
16	INSTALL 12" WATER LINE, PER UDACS PLATE No. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	3,073
17	INSTALL 8" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	-
18	STUB AND CAP 2" WATER LINE	EA	-
19	INSTALL 4"x4" TEE PER UDACS PLATE No. 5	EA	-
20	INSTALL 12" 90° BEND PER UDACS PLATE No. 5	EA	-
21	STUB AND CAP 12" WATER LINE W/ 2" BLOW-OFF PER UDACS PLT. No. 4A	EA	4
22	INSTALL 8" - 90° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	-
23	INSTALL 8" - 90° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	3
24	INSTALL 8" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	2
25	INSTALL 4" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	-
26	INSTALL 8" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	-
27	INSTALL 4" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	-
28	INSTALL 12" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	-
29	INSTALL 12" GATE VALVE PER UDACS PLATE No. 8 & 3	EA	9
30	INSTALL 8"x4" REDUCER PER UDACS PLATE No. 5	EA	3
31	INSTALL 2" WATER LINE (DOM), PER UDACS PLATE No. 6	LF	-
32	INSTALL 2" 90° BEND PER UDACS PLATE No. 5	EA	-
33	INSTALL 4"x4" TEE PER UDACS PLATE No. 5	EA	-
34	INSTALL 2"x4" REDUCER PER UDACS PLATE No. 5	EA	-
35	INSTALL 2"x2" TEE PER UDACS PLATE No. 5	EA	-
36	INSTALL 12" - 11.25° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	5
37	INSTALL 12" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. No. 5	EA	10
38	INSTALL 12" - 5° BEND RESTRAINED ON EACH END	EA	1
39	INSTALL 8" GATE VALVE PER UDACS PLATE No. 8 & 3	EA	8
40	INSTALL FIRE DEPARTMENT CONNECTION	EA	-
41	INSTALL 6"x6" TEE PER UDACS PLATE No. 5	EA	-
42	INSTALL 12"x8" TEE PER UDACS PLATE No. 5	EA	4
43	INSTALL 12" WATER LINE, PER UDACS PLATE No. 6 (DIP, C-900)	EA	81
44	INSTALL 12"x12" CROSS PER UDACS PLATE No. 5	EA	2
45	STUB AND CAP 8" WATER LINE W/ 2" BLOW-OFF PER UDACS PLT. No. 4A	EA	2

NOTE: CONSTRUCTION NOTES WITH "-" QUANTITIES ARE USED ON-SITE (PRIVATE)

DISCLAIMER:
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG: 1-800-227-2600

APPROVED FOR CONSTRUCTION
(First Approved 10-30-07)

Steve Hadden 1-14-08
LAS VEGAS VALLEY WATER DISTRICT
DATE: 1-14-08

Call Southwest Gas at 365-2296 for Standby when excavating over or near High Pressure Gas lines.

Call before you Dig. 1-800-227-2600 UNDERGROUND SERVICE

Call before you OVERHEAD 1-702-227-2929 NEVADA POWER CORPORATION AND SAFETY SERVICES DEPARTMENT

Call before you UnderGround 1-702-455-7511 CLARK COUNTY TRUST PERITIONS And 1-702-229-8611

STATE OF NEVADA
ALI A. SHAHABI
Exp. 6-30-08
CIVIL

VENTURE CORPORATION
CENTENNIAL HILLS PROFESSIONAL CENTER
PUBLIC SEWER PROFILE (SOUTH CORNER)

JOB # 052058.01
SHEET NO.: PP-13

1/13/09 51 OF 86 SHEET