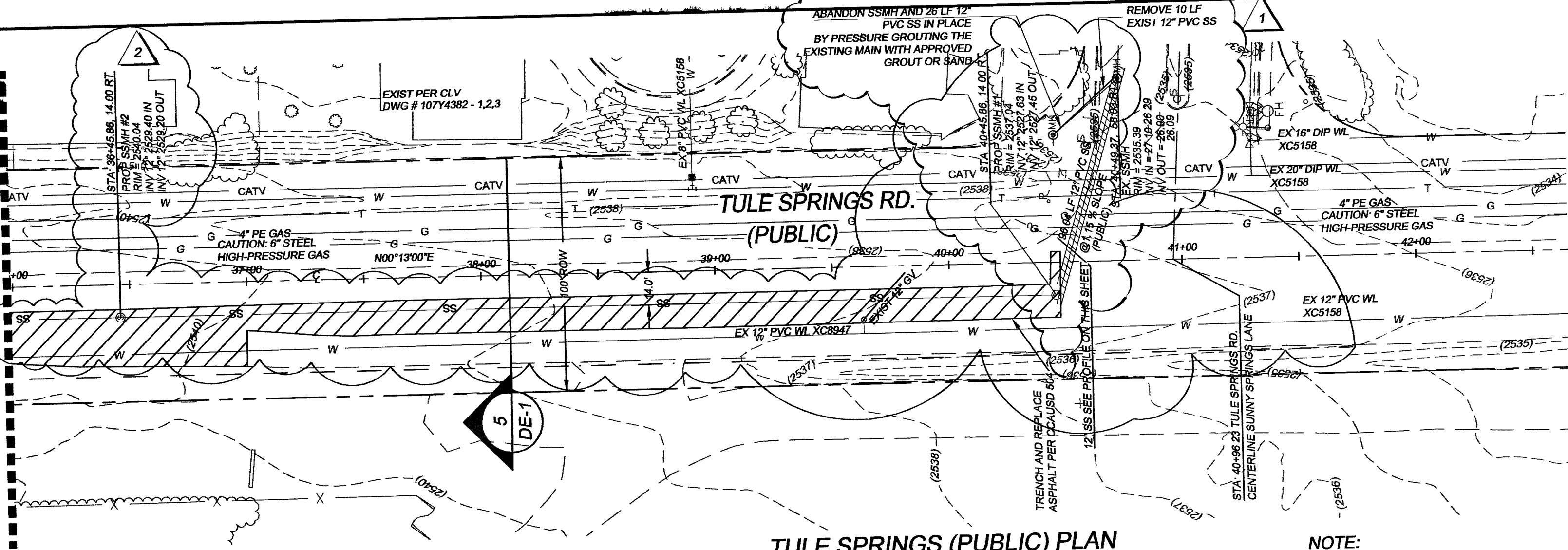


MATCHLINE-STA. 36+00
SEE SHEET PP-2

MATCHLINE-STA. 36+00
SEE SHEET PP-2



NOTE:
CALL SOUTHWEST GAS AT 365-2296 FOR STANDBY WHEN
EXCAVATING OVER OR NEAR HIGH-PRESSURE GAS LINES

TULE SPRINGS (PUBLIC) PLAN STA. 36+00 TO STA. 40+45.86

NOTE:
SEE SHEET TC-1 FOR SIGHT VISIBILITY ZONES

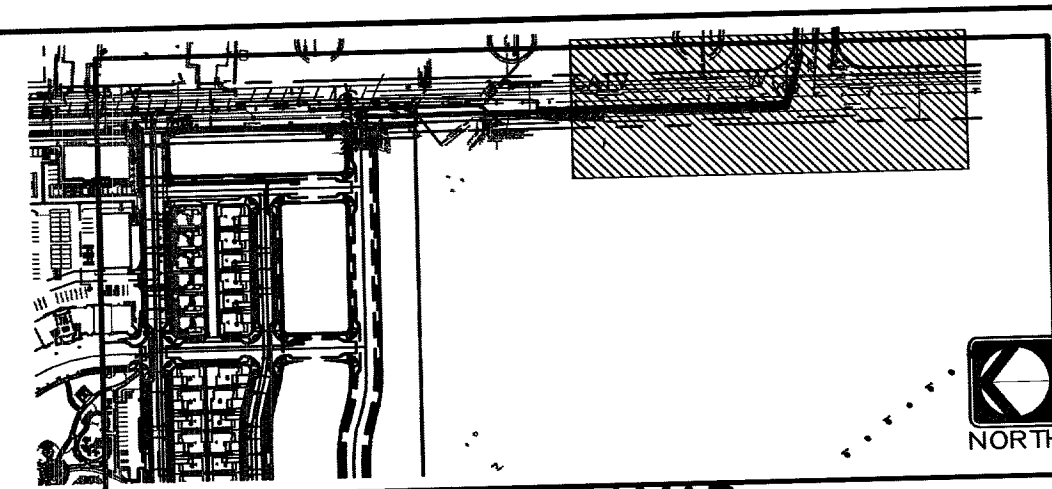
ENGINEER'S NOTES

ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CLSM.
ESN 038A REVISED 4/20/05

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. PLANS SHOWING WORK IN NDOT RIGHT-OF-WAY MUST
SHOW NDOT STATIONING. THE DEVELOPER ASSUMES ALL LIABILITY FOR WORK CONDUCTED UNDER THE
DISTRICT OBTAINED PERMIT THROUGH WARRANTY EXPIRATION.
ESN 023 REVISED 6/10/04

NOTE: NDOT PERMIT
REQUIRED FOR ALL
WORK IN NDOT ROW



ENGINEER'S NOTES

- ALL PRIVATE STREETS ARE P.U.E.'S, PUBLIC SEWER EASEMENTS & PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED.
- ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION.
- FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF GUTTER (INCLUDING OPEN GRADE).
- PRIVATE STREETS AND/OR DRIVEWAYS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLV INSPECTOR.
- ADD 2800 TO ALL ELEVATIONS TO GET ACTUAL ELEVATIONS.
- THESE PLANS SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY THE GOVERNMENT AGENCIES.
- ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
- THE PROPOSED STORM DRAIN SHALL BE INSTALLED WITH WATERTIGHT JOINTS, WHEN LOCATED WITH EXISTING PIPE WALLS CLOSER TO EXISTING WATER THAN 10 FEET, THE JOINTS SHALL BE CONSTRUCTED PER THE UDACS SECTION 2 19 01.8 2 c.m.
- 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: 1-800-77-2600.

BENCHMARK: BLV90 1694: CITY OF LAS VEGAS BENCHMARK, RIVET & PLATE IN TOP OF CURB @ THE NORTHEAST CORNER OF FARM ROAD AND TULE SPRINGS ROAD (FORMALLY DURANGO DRIVE) = 774.7072m = 2541.68ft.

BASIS OF BEARINGS: NORTH 00°13'00" EAST, BEING THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 17, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M. SAID LINE ALSO BEING THE CENTERLINE OF TULE SPRINGS ROAD AS SHOWN BY PLAT THEREOF ON FILE IN BOOK 81, PAGE 85 IN THE CLARK COUNTY, NEVADA RECORDS OFFICE.

LAS VEGAS VALLEY WATER DISTRICT NOTES:

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1-12" (2) 1" APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11 A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. ESN 038

INSTALL WATER LINE IN STEEL CASING PER UDACS PLATES NO. 15 AND 16. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE 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. ESN 038

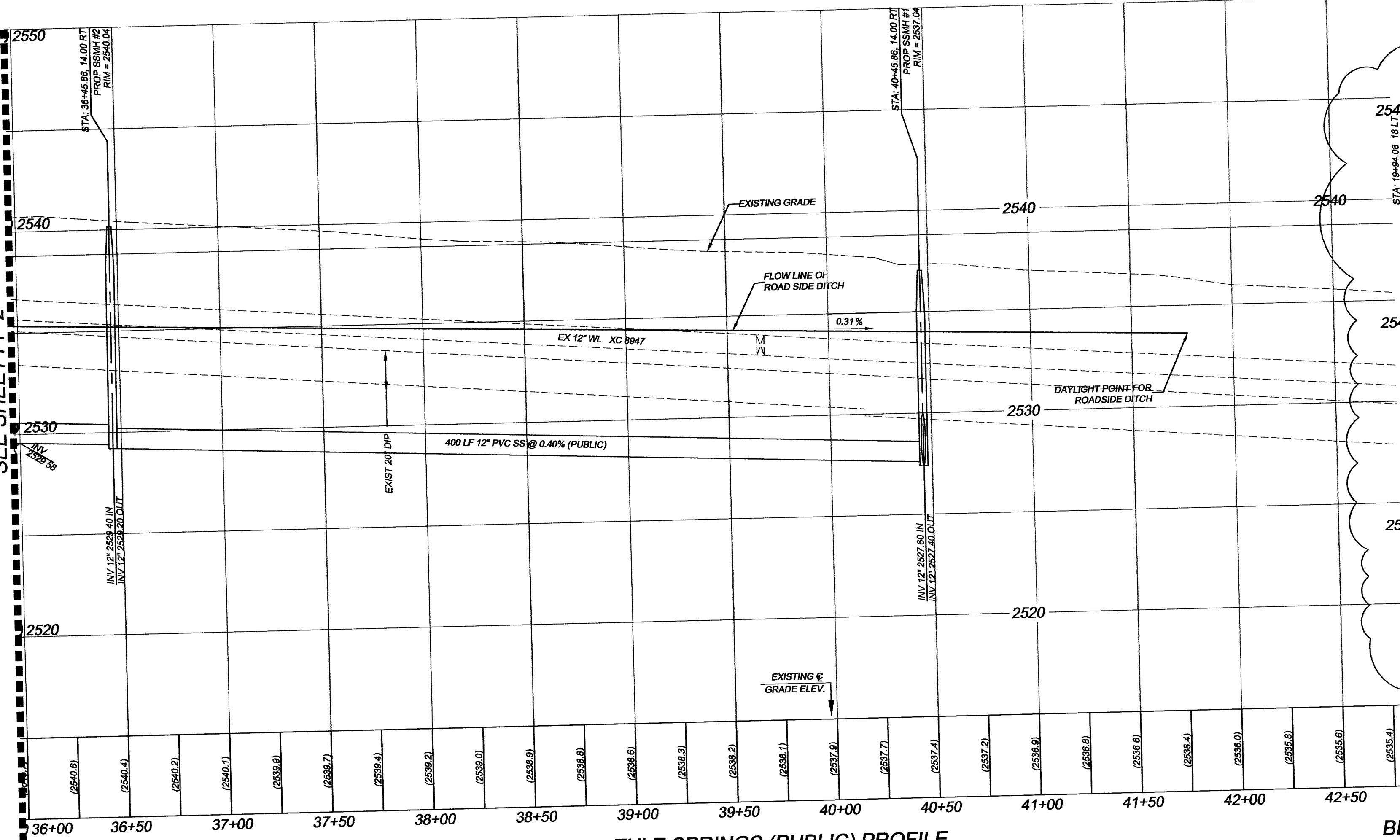
NOTE: INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27. ESN 062

ALL SEWER/STORM DRAINS 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. ESN 064

ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 8. VALVE SHALL BE ACCESSIBLE AT ALL TIMES. ESN 035

PROCEDURES TO RELOCATE A CORROSION TEST STATION:

- EXPOSE THE TEST STATION(S) AND LABEL ALL LEADS ACCORDING TO THE TYPICAL TEST BOARD DETAIL.
- THE LEADS THAT ARE CONNECTED TO THE PIPE REQUIRE #6 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
- THE LEAD THAT IS CONNECTED TO THE REFERENCE CELL REQUIRES #14 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
- CONNECT THE TWO WIRES TO BE SPLICED WITH A COPPER BUTT CONNECTION USING THE PROPER CRIMPING TOOL.
- MAKE EACH SPICE USING A SCOTCHCAST RESIN SPLICING KIT, DURCO-CAST UNIVERSAL SPICE KIT, OR A RAYCHEM ANODE SPICE ENCLOSURE KIT.
- RECONNECT THE TEST BOARD TO PROPER LEADS, AND PLACE THE TEST BOARD AT THE NEW SITE.
- THE TEST BOX AT THE NEW SITE WILL BE INSTALLED ACCORDING TO THE TYPICAL TEST BOARD DETAIL.
- ALL TEST LEADS AND ANODE LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON TIES AND SHALL BE PROVIDED WITH A MINIMUM OF 4 FEET SLACK.
- ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED TAPE AT EACH END, AND AT 4 FEET INTERVALS.
- RELOCATED TEST STATION TO BE TESTED BY CERTIFIED CATHODIC PROTECTION SPECIALIST.
- RELOCATED TEST STATION TO BE TESTED BY REGISTERED PROFESSIONAL CORROSION ENGINEER. RESULTS TO BE SUBMITTED IN WRITING TO LVVWD CONSTRUCTION DIVISION. ESN 060



TULE SPRINGS (PUBLIC) PROFILE STA. 36+00 TO STA. 40+45.86

HORIZ. 1" = 40'

VERT. 1" = 4'

BELLFRY AVE (PRIVATE) STORM DRAIN LATERAL PROFILE

HORIZ. 1" = 20'

VERT. 1" = 2'

12" SANITARY SEWER EXTENSION TO EXISTING MH

HORIZ. 1" = 40'

VERT. 1" = 4'

WATER NOTES (PUBLIC STREET IMPROVEMENTS)

No.	ITEM
1	MECHANICAL JOINT TAPPING SLEEVE & TAPPING VALVE PER UDACS PLATE # 22, SIZE AND STATION PER PLAN.
2	SERVICE SADDLE PER UDACS PLATE # 1D.
3	INSTALL 1" IRR. METER WITH 1" RPPA PER UDACS 1D AND 11A.
4	STUB AND CAP FOR FUTURE USE CONNECTION PER UDACS PLATE # 4A.
5	INSTALL FIRE HYDRANT, 6" LATERAL, 6" GATE VALVE AND ANY APPURTENANCES NECESSARY FOR FUNCTIONAL FIRE HYDRANT PER UDACS PLATE # 7.
6	TRENCH AND BACKFILL WATER INSTALL PER CCAUSD PLATE # 504.
7	FIELD LOCATE EX. GATE VALVE & ADJUST TO PROPOSED FINISH GRADE.
8	INSTALL STEEL CASING PER UDACS PLATES # 15 & 16.
9	INSTALL 12" x 10" NJ TAPPING SLEEVE & 10" TAPPING VALVE PER UDACS PLATE # 22.
10	INSTALL 45° BEND (SAME SIZE AS MAIN).

CONSTRUCTION NOTES (PUBLIC STREET IMPROVEMENTS)

No.	ITEM
1	CONSTRUCT "L" TYPE CURB AND GUTTER, PER CCAUSD No. 86.
2	CONSTRUCT DRIVEWAY & 8" CROSS-GUTTER, PER CCAUSD No. 78, 72A & 75.
3	CONSTRUCT 10" SIDEWALK, PER CCAUSD No. 234.
4	CONSTRUCT SIDEWALK RAMP CASE II, PER CCAUSD No. 235. CONCRETE OF RAMPS SHALL BE COLORED TO MATCH PAVEMENT COLOR, SHADY RED 488 OR CLV APPROVED COLOR & TC STDs.
5	CONSTRUCT TYPE "A" ISLAND CURB, PER CCAUSD No. 89.
6	CONSTRUCT TWO (2) SIDEWALK UNDERDRAINS, PER CCAUSD No. 236.
7	CONSTRUCT 4" U-CURB, PER DETAIL 11 / DE-1.
8	INSTALL 1x1 CONCRETE PAVERS @ 45° SHADY RED 488 OR CLV APPROVED COLOR.

SEWER NOTES (PUBLIC STREET IMPROVEMENTS)

No.	ITEM
1	CONSTRUCT 48" TYPE I MANHOLE PER CCAUSD # 403.
2	12" PVC PIPE
3	STUB 6" SS AND CAP FOR FUTURE USE

SOILS REPORT NOTE:

ALL WORK SHALL CONFORM TO THE GEOTECHNICAL REPORT
PREPARED BY:
FIRM NAME: OWENS GEOTECHNICAL, INC.
PROJECT NO.: E-03-291
DATED: NOVEMBER 8, 2003

CITY OF LAS VEGAS FIRE DEPARTMENT
APPROVAL

BY: *[Signature]* DATE: 8-2-05

APPROVED FOR CONSTRUCTION ESN 018
(PROJECT NO. 110183)
1st April 6/28/05
LAS VEGAS VALLEY WATER DISTRICT
(LVVWD # 110183) DATE: 8/14/05

LEGEND

EXISTING

PROPOSED

RIGHT OF WAY/PROPERTY CENTER	W	W
EASEMENT	SS	SS
SANITARY SEWER MANHOLE	G	G
GAS	E	E
STORM DRAIN W/ MANHOLE	CATV	CATV
POWER LINE(OVERHEAD)	T	T
CABLE TELEVISION	FIRE HYDRANT	FIRE HYDRANT
TELEPHONE	WATER VALVES	WATER VALVES
STREETLIGHTS	STREETLIGHTS	STREETLIGHTS
SCREEN WALL	SCREEN WALL	SCREEN WALL
GRADE BREAK	GRADE BREAK	GRADE BREAK
EDGE OF PAVEMENT	EDGE OF PAVEMENT	EDGE OF PAVEMENT
SAWCUT LINE	SAWCUT LINE	SAWCUT LINE
"A" CURB	"A" CURB	"A" CURB
"L" CURB	"L" CURB	"L" CURB
TRAFFIC SIGNS	TRAFFIC SIGNS	TRAFFIC SIGNS
CONTOUR LINE - MAJOR	CONTOUR LINE - MAJOR	CONTOUR LINE - MAJOR
CONTOUR LINE - MINOR	CONTOUR LINE - MINOR	CONTOUR LINE - MINOR
ELEVATION TAGS	ELEVATION TAGS	ELEVATION TAGS
FINISHED FLOOR ELEVATION	FINISHED FLOOR ELEVATION	FINISHED FLOOR ELEVATION
SLOPE	SLOPE	SLOPE

REVISIONS:

NO.	DESCRIPTION	DATE	BY	REV
1	REVISED SANITARY SEWER	6-10-05		
2	DESIGN	7-14-05		
3	REPLACED SANITARY			
4	SEWER DESIGN/REVISION			
5	LATERAL PROFILE			

DATE: August 02, 2005
JOB NO: 052007.00
FILE NAME:
DO NOT SCALE DRAWINGS

SHEET NO: 13 OF 27

PP-3
CLV # 1074867-B12-05

PP-3