

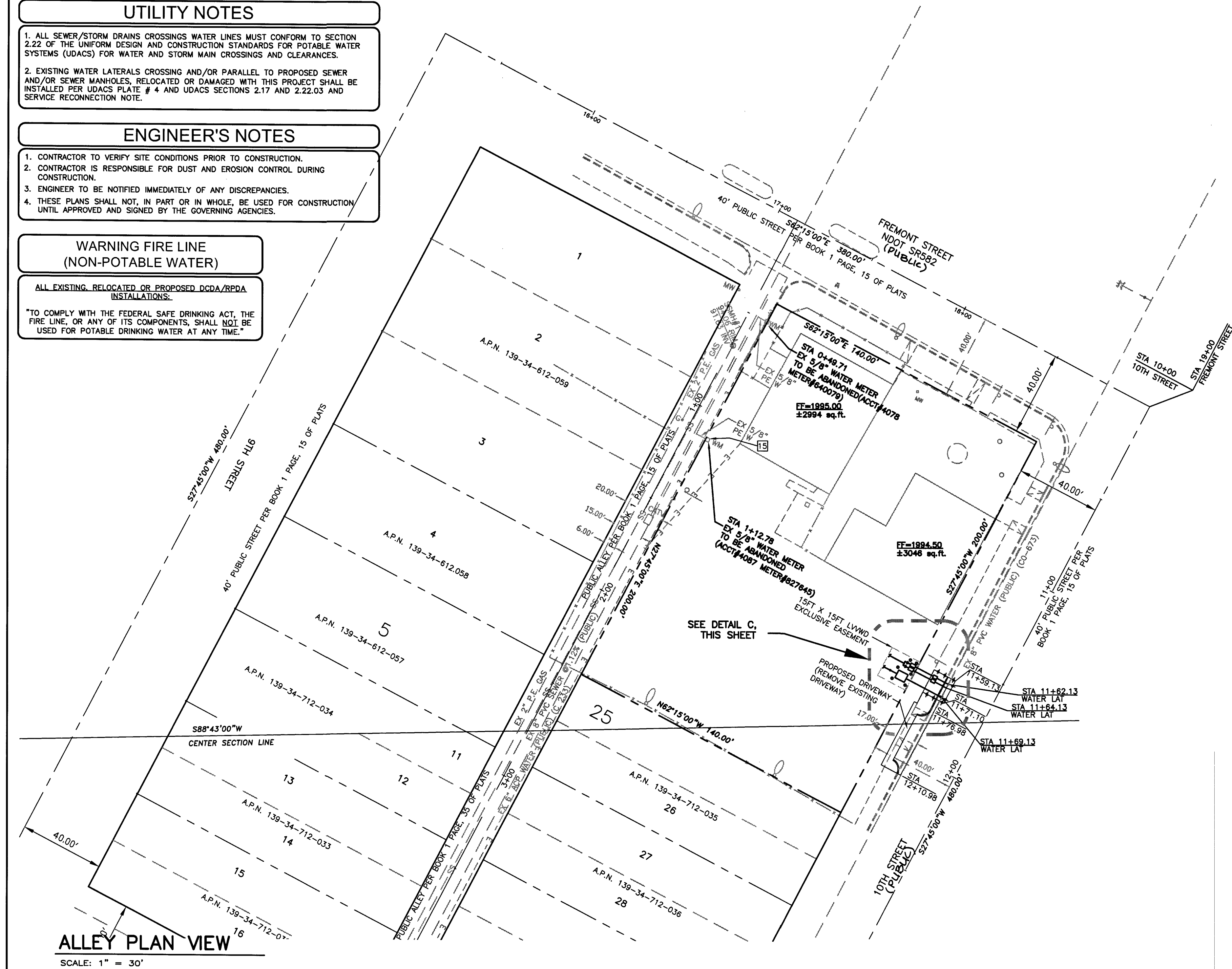
1. ALL SEWER/STORM DRAINS CROSSINGS WATER LINES MUST CONFORM TO SECTION 2.2.0 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

2. EXISTING WATER LATERALS CROSSING AND/OR PARALLEL TO PROPOSED SEWER AND/OR SEWER MANHOLES, RELOCATED OR DAMAGED WITH THIS PROJECT SHALL BE INSTALLED PER UDACS PLATE # 4 AND UDACS SECTIONS 2.17 AND 2.22.03 AND SERVICE RECONNECTION NOTE.

1. CONTRACTOR TO VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
3. ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THESE PLANS SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY THE GOVERNING AGENCIES.

ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA
INSTALLATIONS:

"TO COMPLY WITH THE FEDERAL SAFE DRINKING ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME."



- * FIRE FLOW IS BASED ON THE TABLE B 105.1 (IFC APPENDIX B)
- * BUILDING HEIGHT, NUMBER OF STORIES, AND TYPE OF CONSTRUCTION ARE ALL DETERMINED BASED ON THE GUIDELINES AND DEFINITION OUTLINE IN IFC APPENDIX B
- * ANY PERMITTED REDUCTIONS IN THE REQUIRED FIRE FLOW ARE OUTLINED IN SNFC B105.2
- * IN DETERMINING THE MINIMUM NUMBER OF HYDRANTS REQUIRED, THE MAXIMUM SPACING FROM EACH HYDRANT SHALL BE 1500PM. HYDRANT SPACING SHALL BE PER IFC APPENDIX C / SNFC SECTION C105.1
- * DEVELOPMENTS WITH MULTIPLE BUILDINGS, THIS CHART SHALL BE PROVIDED FOR THE LARGEST BUILDING FOR EACH CONSTRUCTION TYPE, AND FOR EACH SPRINKLERED/NONSPRINKLERED BUILDING TYPE IF APPLICABLE.

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE @ 20 psi
RESIDUAL PRESSURE.

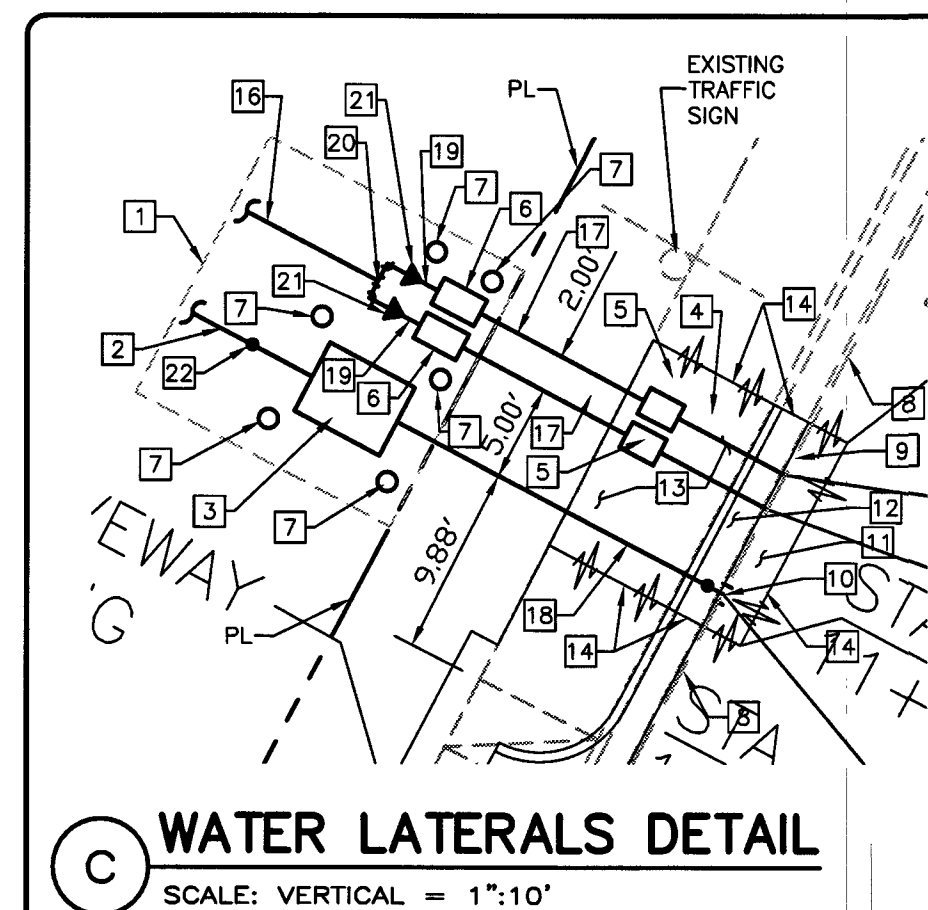
BASED ON:

SQUARE FOOTAGE:	3046 SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SF
BUILDING HEIGHT:	15 FT
NUMBER OF STORIES:	1 FLOOR
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	B
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES

THE REDUCED PRESSURE PRINCIPLE ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING PLAN, NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVMD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE ELEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

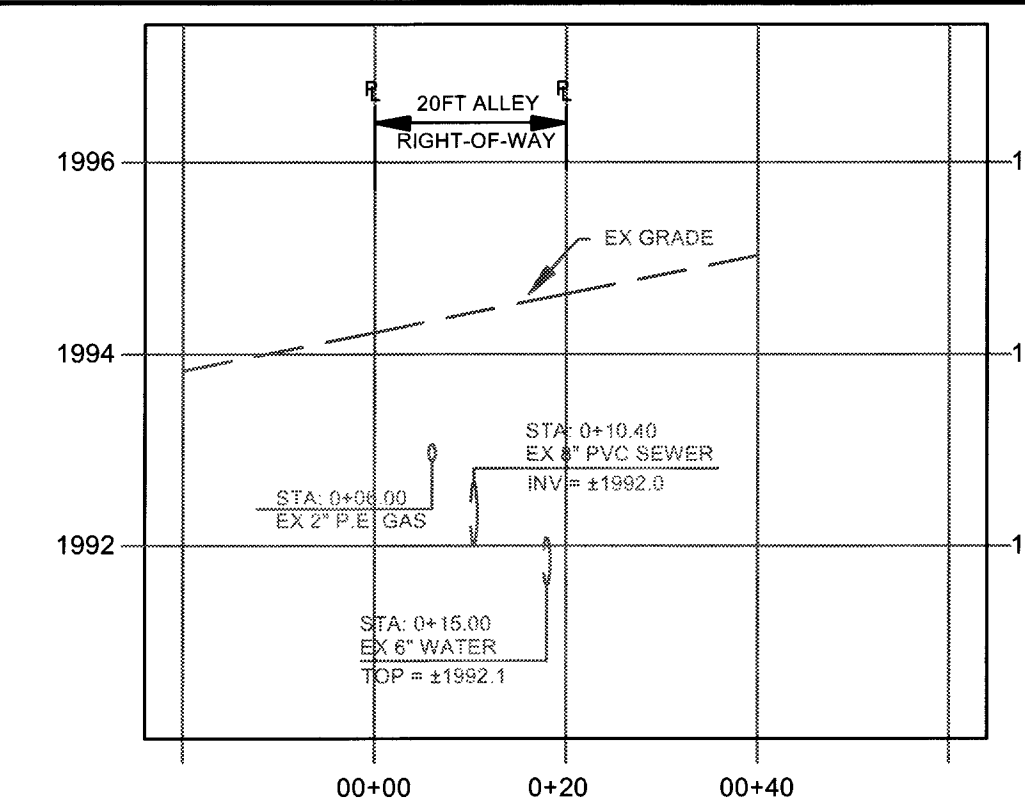
THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE NEAREST ROUTE TO THE SITE. AFTER READING THE DISTRICT CONTRACTOR MAY THEN BEGIN THE PROGRAM. THE DISTRICT WILL BE THE AFFECTED SERVICE AS FOLLOWS: EXISTING SERVICE. LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAIN SHALL BE CUT OFF AT THE MAIN, TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OFF NEAR THE CORPORATION STOP, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. THE LATERAL SHALL BE REMOVED FROM THE MAIN, REPAIR OR PULLED FROM THE EXISTING WATER MAIN. THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CONTRACTOR STOP IS NOT IN THE RIGHT, THE CONTRACTOR SHALL NOTIFY THE DISTRICT COMMUNICATIONS CENTER AT (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING METER BOX AND COVER, AND SHALL RESTORE TO ORIGINAL GRADE AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, BRICKS, CONCRETE, ASPHALT, GRASS, ASPHALT, OR ANY OTHER ITEMS DAMAGED. THE REMOVED LATERAL AND THE REMOVAL OF THE EXISTING SERVICE METER BOX.



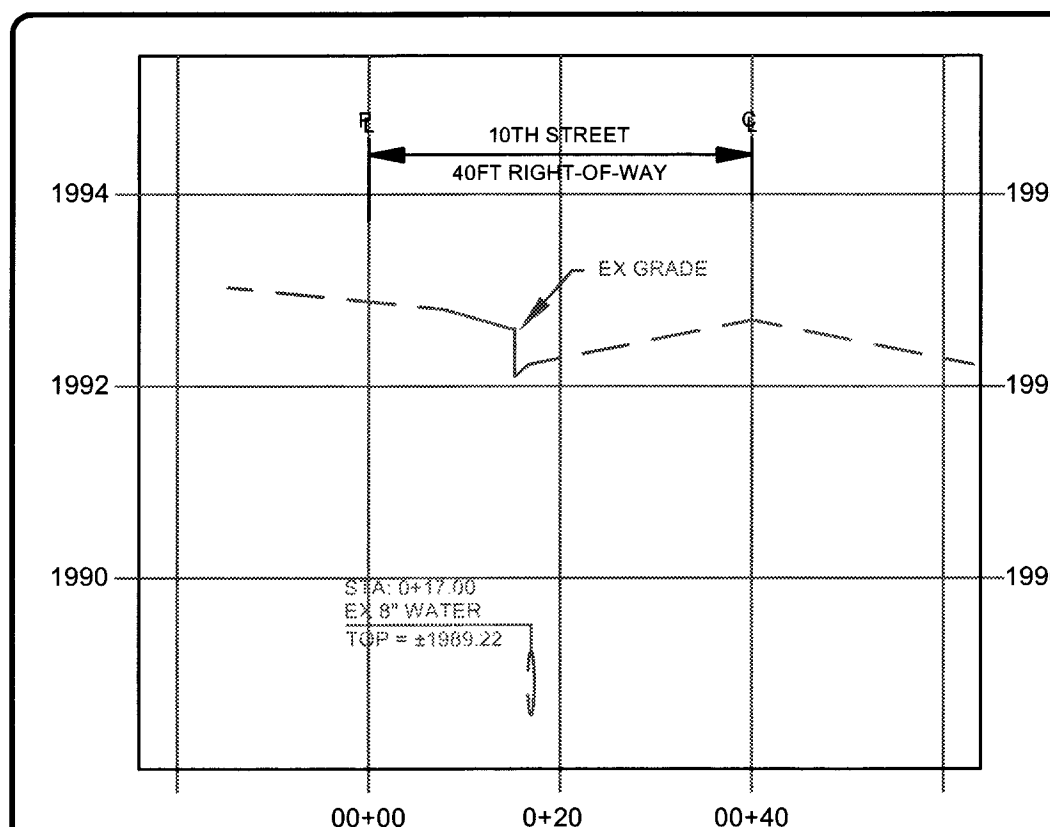
- 1] 15FT X 15FT LVWMD EXCLUSIVE EASEMENT
- 2] INSTALL 4" PVC WATER PIPE
- 3] INSTALL 4" RPPA PER UDACS PLATE No. 56 AND NOTE ON THIS SHEET
- 4] INSTALL 1" COPPER WATER LINE
- 5] INSTALL 1" WATER METER PER UDACS PLATE No. 4
- 6] INSTALL 1" RPPA PER UDACS PLATE No. 8 AND NOTE ON THIS SHEET
- 7] INSTALL BOLLARDS PER UDACS No. 75
- 8] EXISTING 8" PVC WATER MAIN (CO-673)
- 9] AT STATION 1+61.13 CONNECT PROPOSED 1" COPPER WATER LATERAL TO EXISTING 8" PVC MAIN PER UDACS PLATE No. 4
- 10] AT STATION 1+69.13 CONNECT PROPOSED 6" PVC WATER LATERAL TO EXISTING 8" WATER MAIN PER UDACS PLATE No. 34, W/8"x6" TAPPING SLEEVE & 6" TAPPING VALVE
- 11] TRENCH AND BACKFILL AND AC PAVEMENT RESTORATION PER CCAUSD No. 500.3, 500.5 & 503
- 12] REMOVE AND REPLACE CURB AND GUTTER PER CCAUSD No. 216
- 13] REMOVE AND REPLACE SIDEWALK PER CCAUSD No. 234
- 14] SAWCUT LINE
- 15] ABANDON AND REMOVE EXISTING 5/8" WATER METER PER UDACS SECTION 2.17.04 AND NOTE ON THIS SHEET
- 16] INSTALL 2" PE WATER LINE
- 17] INSTALL 1" BRASS WATER LINE PER UDACS PLATE No. 8
- 18] INSTALL 6" PVC WATER LINE PER UDACS PLATE No. 17
- 19] INSTALL 1" BRASS 90° BEND
- 20] INSTALL 2" BRASS TEE
- 21] INSTALL 2" X 1" REDUCER
- 22] INSTALL 4" GATE VALVE PER UDACS PLATE No. 30 AND No. 39

STREET IMPROVEMENTS	PRIVATE	PUBLIC	TOTAL
3" AC PAVEMENT	0 SF	27 SF	27 SF
1" CURB AND GUTTER	0 SF	12 LF	12 LF
SIDEWALK	0 SF	85 SF	85 SF
SEWER/WATER	PRIVATE	PUBLIC	TOTAL
1" BRASS WATER LINE	30 LF	13 LF	43 LF
2" PVC WATER LINE	8 LF	0 LF	8 LF
1" WATER METER	0 EA	2 EA	2 EA
1" RPPA	0 EA	2 EA	2 EA
2" BRASS 90° BEND	2 EA	0 EA	2 EA
2" BRASS TEE	1 EA	0 EA	1 EA
2" x 1" REDUCER	2 EA	0 EA	2 EA
4" PVC WATER LINE	45 LF	0 LF	45 LF
6" PVC WATER LINE	0 LF	20 LF	20 LF
4" RPPA	0 EA	1 EA	1 EA

QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS OWN QUANTITY TAKE OFF, AND BID ACCORDINGLY.

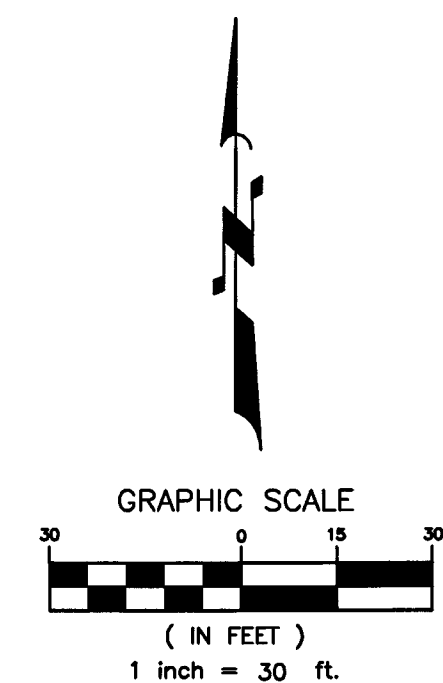


SCALE: VERTICAL = 1":2'
HORIZONTAL = 1":20'



④ STA: 1+61.13

A map of the Project Site area in Las Vegas. The map shows a grid of streets including Main St, 3rd St, Casino Center Blvd, Fremont St, Carson Ave, Bridger Ave, Lewis Ave, 4th St, 5th St, 6th St, 7th St, 8th St, 9th St, 10th St, US 95, Stewart Ave, Bonanza, and O'Connell Ave. A large black arrow points to the Project Site, which is located between 9th St and 10th St, and between Carson Ave and Bridger Ave. A north arrow and the text 'NTS' (Not To Scale) are also present.



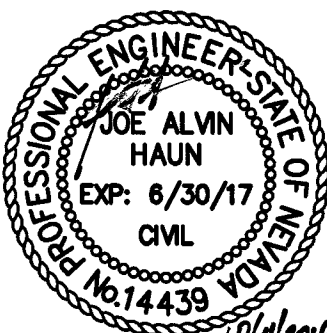
_____	ADJACENT PARCEL/PROPERTY LINE
_____	STREET CENTERLINE
_____	RIGHT-OF-WAY LINE
_____	EXISTING FIRE HYDRANT
A.P.N.	ASSESSOR PARCEL NUMBER
E	EAST
EA	EACH
EX	EXISTING
FT	FEET
INV	INVERT ELEVATION
G	GAS LINE
LF	LINEAR FEET
N	NORTH
PP	POWER POLE
RIM	RIM ELEVATION
RCB	REINFORCED CONCRETE BOX CULVERT
S	SOUTH
SS	SANITARY SEWER LINE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
W	WATER LINE OR WEST

CITY OF LAS VEGAS BENCHMARK NO. 13LV0135W4

RIVET AND PLATE IN TOP OF CURB SOUTHEAST CORNER OF
FREMONT AND 11TH STREET.

ELEVATION = 1985.52 FT./605.188 M

SOUTH 27°45'00" WEST, BEING THE BEARING OF THE CENTERLINE OF 10TH STREET AS SHOWN ON THAT CERTAIN PLAT OF BUCK'S SUBDIVISION OF LAS VEGAS ON FILE IN BOOK 1 PAGE 15 OF PLATS IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA.



APPROVED FOR CONSTRUCTION

41 DISHARI, ER - JSM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 124297 DATE 10/13/16
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

107V6731
HANSEN NO.
62443

JOB NO.
15-0076

SHEET NO.

C1
3 OF 4

PLOT DATE: 10/10/16