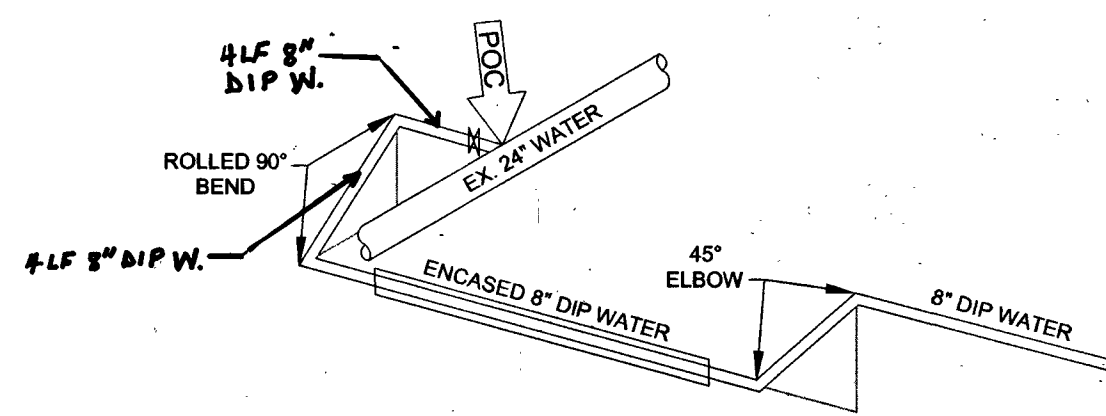
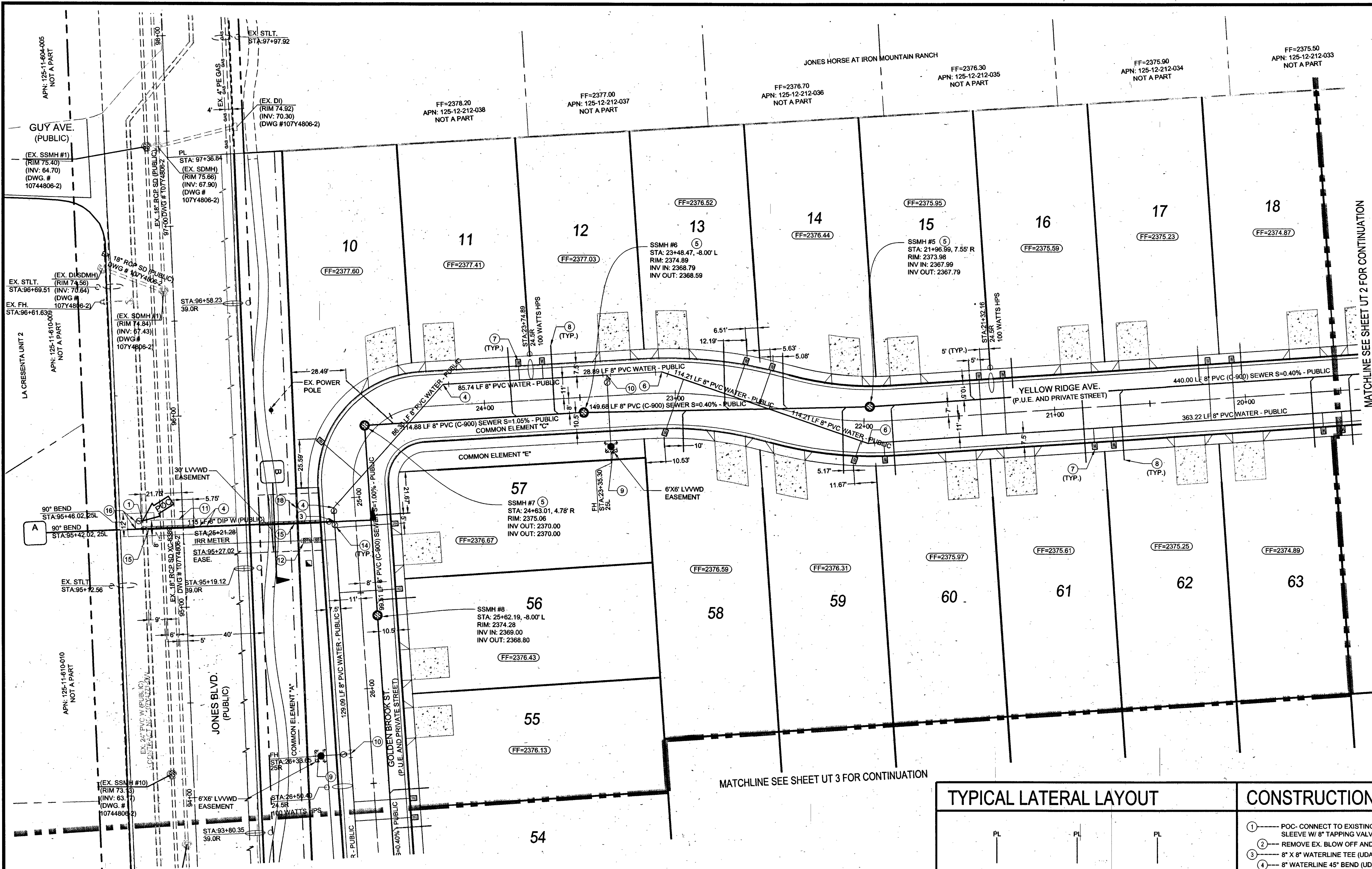
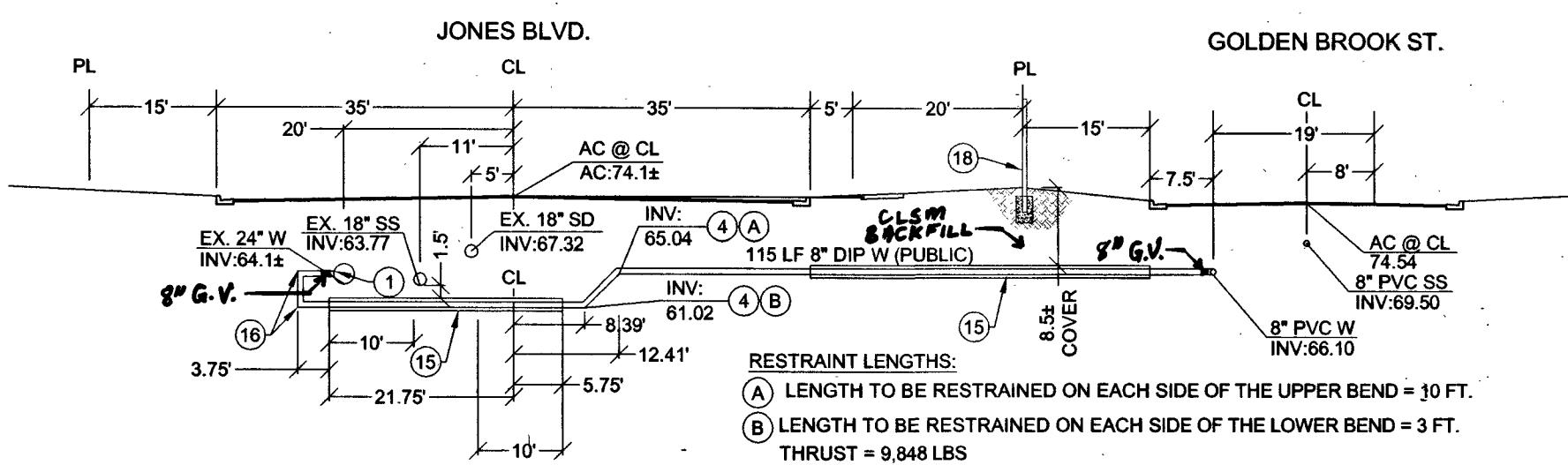




ISOMETRIC VIEW NTS
ROLLED 90° BENDS CONNECTING TO EX. 24" WATER

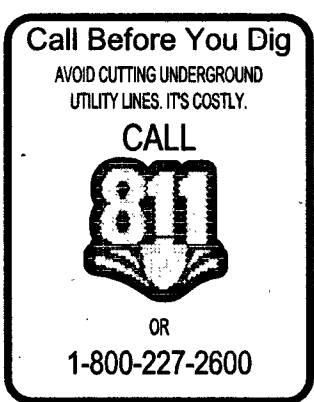


SECTION "A-A" SCALE: 1"=20'
8" DIP WATER THROUGH 30' EASEMENT

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VALVE(S), BACKFLOW ASSEMBLY, AND PIPING FROM ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

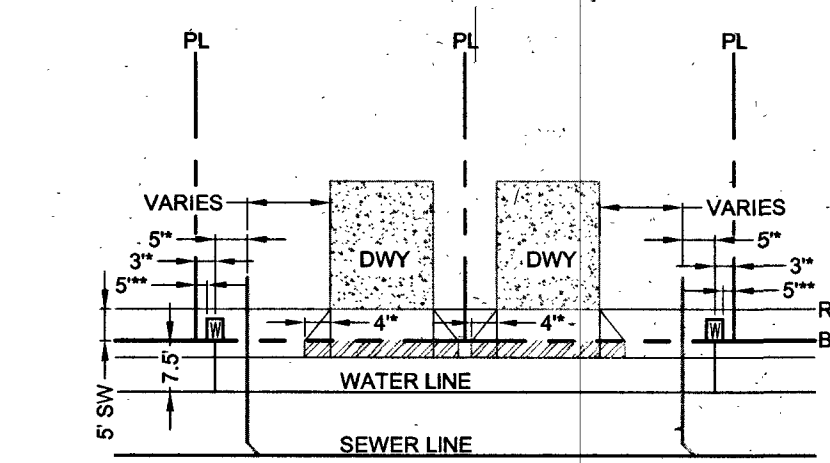
EASEMENTS WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL OR FENCE TREES, SHRUBS OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VALVE(S), BACKFLOW ASSEMBLY, AND PIPING FROM ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.



SEWER FLOW CALCULATIONS

AVERAGE FLOW = 76 LOTS X 0.00025 MGD = 0.019 MGD
PEAK FLOW = 0.019 MGD X 3.5 X 1.25 = 0.083125 MGD

TYPICAL LATERAL LAYOUT



*TYPICAL DIMENSIONS UNLESS OTHERWISE DIMENSIONED ON PLAN
*TYPICAL DIMENSIONS WITH A STREET LIGHT AT PROPERTY LINE UNLESS OTHERWISE DIMENSIONED ON PLAN

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR WIRE SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT. 15)

CONSTRUCTION NOTES

1. POC- CONNECT TO EXISTING 24" WATER BY INSTALLING A 24" X 8" TAPPING SLEEVE W/ 8" TAPPING VALVE (UDACS 2.24.01.B AND UDACS PLT. 34 & 39)
2. REMOVE EX. BLOW OFF AND CONNECT TO EXISTING 8" DIP
3. 8" X 8" WATERLINE TEE (UDACS PLT. 31)
4. 8" WATERLINE 45° BEND (UDACS PLT. 31)
5. 48" MANHOLE, BASE PRECAST, GRADE RING COLLAR & LID PER (DCSWCS SD-1A, SD18 THRU SD-5)
6. 8" WATERLINE 22.50° BEND (UDACS PLT. 31)
7. 1" COPPER WATER SERVICE W/ 3/4" METER (UDACS PLT. 2)
8. 4" SEWER LATERAL WITH MARKER BALL & CURB MARKING (DCSWCS SD-22)
9. FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40 & 41)
10. INSTALL 8" X 8" WATERLINE TEE (UDACS PLT. 31)
11. SAWCUT REMOVE AND RESTORE EX. AC PAVEMENT (USD# 500.5 AND USD# 503), TRENCH AND BACKFILL (UDACS PLT. 17)
12. 3/4" IRRIGATION METER WITH 1" RPPA (UDACS PLT. 4 & 8)
13. SAW CUT AND REMOVE EXISTING AC PAVEMENT TO INSTALL STORM DRAIN LINE (UDACS PLT. 17) SAW CUT & REPAVEMENT ARE TO BE DETERMINED INSPECTOR.
14. INSTALL GATE VALVE (UDACS PLT. 31 & 39)
15. ENCASED 8" DIP WATER (UDACS PLT. 22 & 23)
16. 8" WATERLINE ROLLED 90° BEND (UDACS PLT. 31)
17. ADJUST WATER VALVE BOX TO GRADE PER UDACS PLT. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
18. WROUGHT IRON FENCE (DESIGN BY OTHERS)

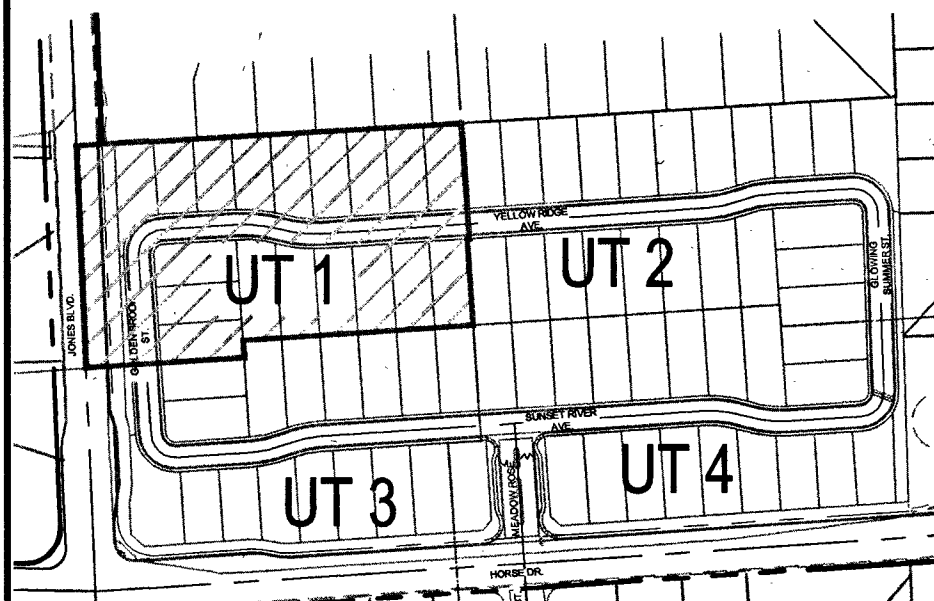
NOTE:
THE 4" SEWER LATERALS FOR THE FOLLOWING LOTS (LATERALS CROSSING WATER MAIN - UDACS 2.22.02.B3) SHALL BE C-900 PIPE (LOTS, 6-8, 11-13, 26-28, 31-33, 40-51, 59-70).

NOTE:
(6)WV INSTALL SEWER BACK WATER VALVE PER DCSWCS SD-29

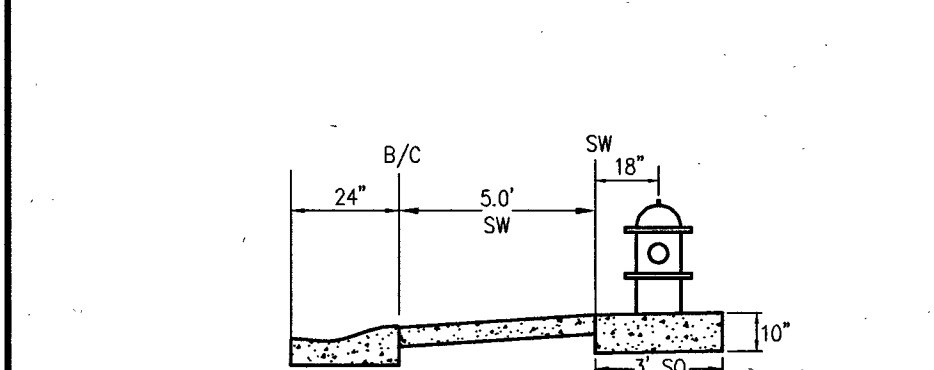
FOR ALL DRY UTILITY CROSSINGS:
- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

EXISTING SERVICES:
IN ANY OF THE EXISTING SERVICES ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE UDACS STANDARDS, AND AT THE DEVELOPER'S EXPENSE

KEY MAP



FIRE HYDRANT DETAIL



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 MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

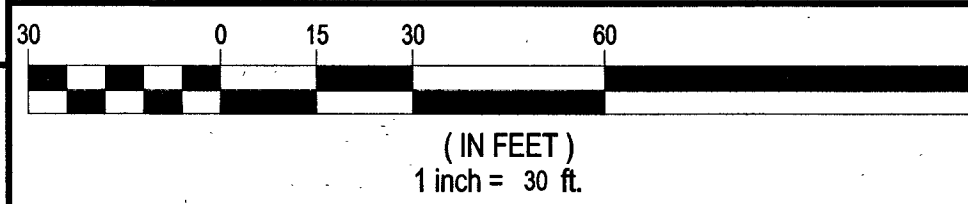
FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,750 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:
SQUARE FOOTAGE: 4,800 SQ. FT. MAX.
HEIGHT: 35-FT
SPRINKLER SYSTEM: NO
ROOF CONSTRUCTION: TILE
HIGH PILED COMBUSTIBLE STORAGE: NO
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
TYPE OF CONSTRUCTION: V-B
OCCUPANCY: SINGLE FAMILY RESIDENTIAL
STORIES: 2
ESFR SYSTEM: NO

UTILITY DISCLAIMER NOTE

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 LOCATIONS.
CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-227-2929

SCALE



LEGAL DESCRIPTION

A PORTION OF SOUTH HALF (S 1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BASIS OF BEARINGS

NORTH 01°47'03" WEST, BEING THE WEST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE 93 OF PARCEL MAPS, AT PAGE 68.

BENCHMARK

CLV BM # 6LV9012W4
RIVET AND PLATE IN TOP OF CURB SOUTH EAST CORNER OF HORSE DR. & JONES BLVD.
722.586m (2370.66FT) (NAVD 88 DATUM)

APPROVAL BLOCK

Disbari FR
LAS VEGAS-WALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER (PROJ# 123786)
LVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL.
K. Mink
LAS VEGAS FIRE & RESCUE
APPROVAL OF THESE PLANS SHALL NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 1,750 G.P.M. AT 20 PSI RESIDUAL.

NO.	DESCRIPTION	REVISIONS	DATE
1	UT 1		
2	UT 2		
3	UT 3		
4	UT 4		

CENTURY COMMUNITIES 6345 SOUTH JONES BLV. LAS VEGAS, NV 89116 (702) 875-3338 FAX: (702) 730-4333	TANEY ENGINEERING 6030 S. JONES BLVD. STE 100 LAS VEGAS, NV 89118 (702) 952-8844 FAX: (702) 952-5233
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HORSE & JONES (AKA: MEADOW RIDGE) SINGLE FAMILY RESIDENTIAL	UTILITY PLAN I
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DATE: 8/28/2015	SCALE: 1"=30'
JOB NO: CYC-14-003	DESIGNED BY: CA
CHECKED BY: TSM	SHEET NAME: UT1
SHEET: 18 OF 25	107Y503D
HP: 59831	