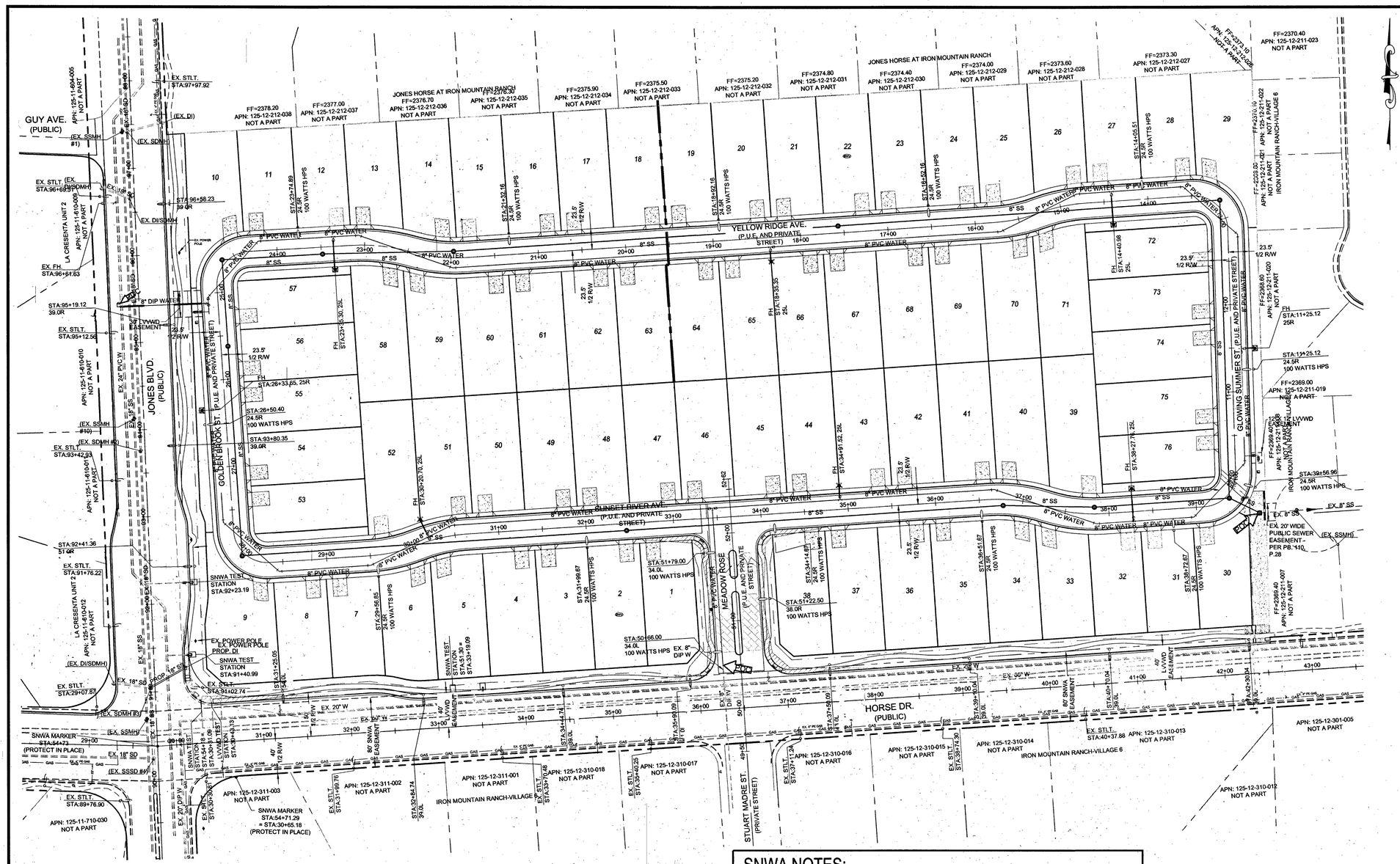
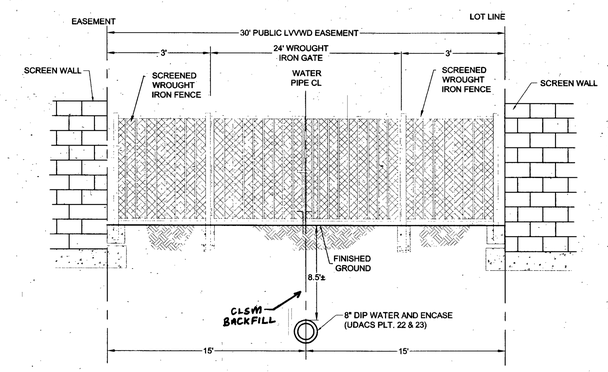




NOTE:
1. THE JOINTS WITHIN EASEMENT MUST BE BONDED AND A TEST STATION INSTALLED AT ONE END OF THE EASEMENT
2. THE ENTIRE TRENCH BACKFILL FOR ENCASED 8" DIP WITHIN 30' LVVWD EASEMENT SHALL BE CLASS 1 CLSM
3. CARSONITE OR BRASS MARKERS SHALL BE USED TO DELINEATE THE LOCATION / ALIGNMENT OF THE PIPELINE WITHIN THE EASEMENT

SECTION "B" NTS
30' PUBLIC LVVWD EASEMENT

Call Before You Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811 OR 1-800-227-2600

SNWA NOTES:

SNWA TEST LEADS ARE SHALLOW

ALL REPAIRS OR RELOCATIONS OF SNWA CATHODIC PROTECTION STATIONS OR APPURTENANCES WILL BE DONE BY A CERTIFIED NACE CATHODIC PROTECTION SPECIALIST AND IN ACCORDANCE WITH SNWA STANDARDS

SNWA FIBER OPTIC CONDUIT RUNS ALONG THE SOUTH SIDE OF THE SNWA 60" LATERAL.

IF EXPOSED, CONTRACTOR TO PAY FOR AND REPLACE SNWA CATHODIC PROTECTION TEST STATION GROUND MATS, MAGNESIUM RIBBONS, OR ZINC RIBBONS WITH NEW GROUND MATES, MAGNESIUM RIBBONS OR ZINC RIBBONS.

SNWA CONSTRUCTION NOTES:
CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL SNWA / SNWS APPURTENANCES INCLUDING, BUT NOT LIMITED TO: AV / AR'S, ACCESS MAN WAYS AND CATHODIC PROTECTION SYSTEMS. ALL ABOVE GROUND STRUCTURES AND AT GRADE STRUCTURES MUST BE ADJUSTED TO NEW GRADE AT CONTRACTOR'S EXPENSE. CATHODIC PROTECTION TEST STATIONS, RECTIFIERS, AND AV / AR'S MUST BE RELOCATED TO THE SIDEWALK PER SNWA STANDARDS AND THE THE CONTRACTOR'S EXPENSE. CONTRACTOR TO **NOTIFY SOUTHERN NEVADA WATER AUTHORITY, DEVELOPMENT PLAN REVIEW,** AT **(702)258-3165** AT LEAST 48 HOURS **PRIOR** CONSTRUCTION ACTIVITY.

H. Dishari 9/2/15
SOUTHERN NEVADA WATER AUTHORITY DATE
DPR 2015-0066

SNWA APPROVAL IS VALID ONE (1) YEAR FROM THE SIGNATURE DATE. IF CONSTRUCTION WITHIN THE EASEMENT OR RISTRICTED PIPE SAFETY ZONE IS NOT COMPLETE, PLANS MUST BE RESUBMITTED TO SNWA FOR APPROVAL.

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIR TO EXISTING FACILITY ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

SEWER FLOW CALCULATIONS

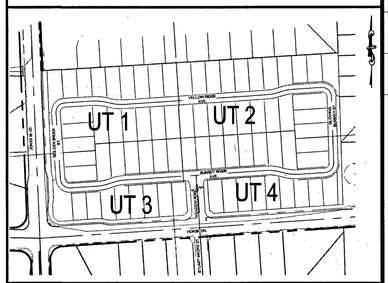
AVERAGE FLOW = 76 LOTS X 0.00025 MGD = 0.019 MGD

PEAK FLOW = 0.019 MGD X 3.5 X 1.25 = 0.083125 MGD

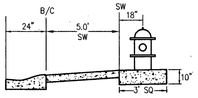
UTILITY NOTES

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)

KEY MAP



FIRE HYDRANT DETAIL



WATER MAIN JOINT DEFELCTION

(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 CONTRACTORS 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

60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

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 69.

BENCHMARK

CLV BM #: BLV9012W4
RIVET AND PLATE IN TOP OF CURB SOUTH EAST CORNER OF HORSE DR. & JONES BLVD.
722.588m/2370.69FT (NAVD 88 DATUM)

APPROVAL BLOCK

H. Dishari FOR 9/9/15
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER (PROJ# 123786)
LVVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL.

8/27/15
LAS VEGAS FIRE & RESCUE
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED 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	SHTS.	APPR.	DATE
	REVISIONS			

CENTURY COMMUNITIES
6345 SOUTH JONES BLV.
LAS VEGAS, NV 89118
(702) 873-5338 FAX: (702) 730-4333

TANEY ENGINEERING
6030 S. JONES BLVD STE# 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

HORSE & JONES (AKA: MEADOW RIDGE) SINGLE FAMILY RESIDENTIAL

MASTER UTILITY PLAN

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
TIMOTEO S. MORENO
EXP. 12-31-15
CIVIL
No. 10361
ENGINEER'S SEAL 8/26/15

DATE: 8/26/2015
SCALE: 1"=60'
JOB NO: CYC-14-003
DESIGNED BY: CA
CHECKED BY: TSM
SHEET NAME: UT0
SHEET: 17 OF 25
10745030
H# 59831

FILE NAME: CYC14003_UTIL_SHEET.DWG