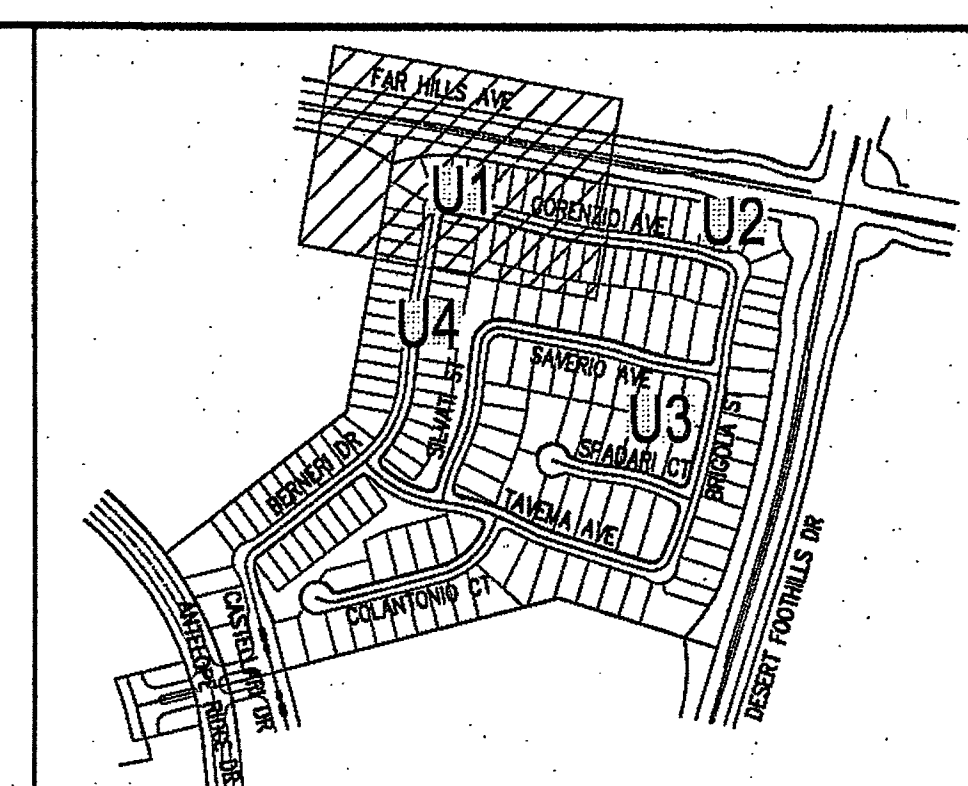
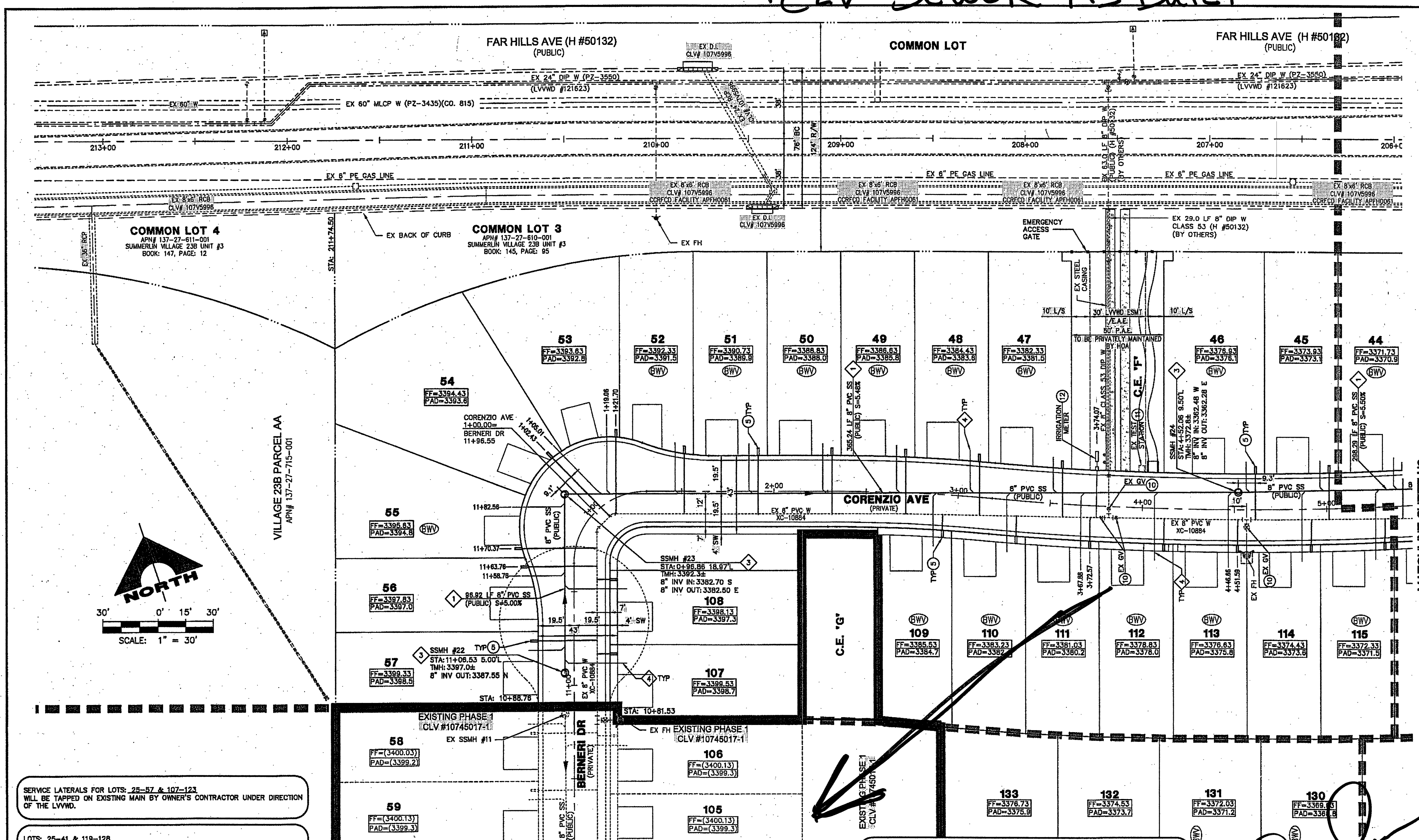


# CLV SEWER AS-BUILT

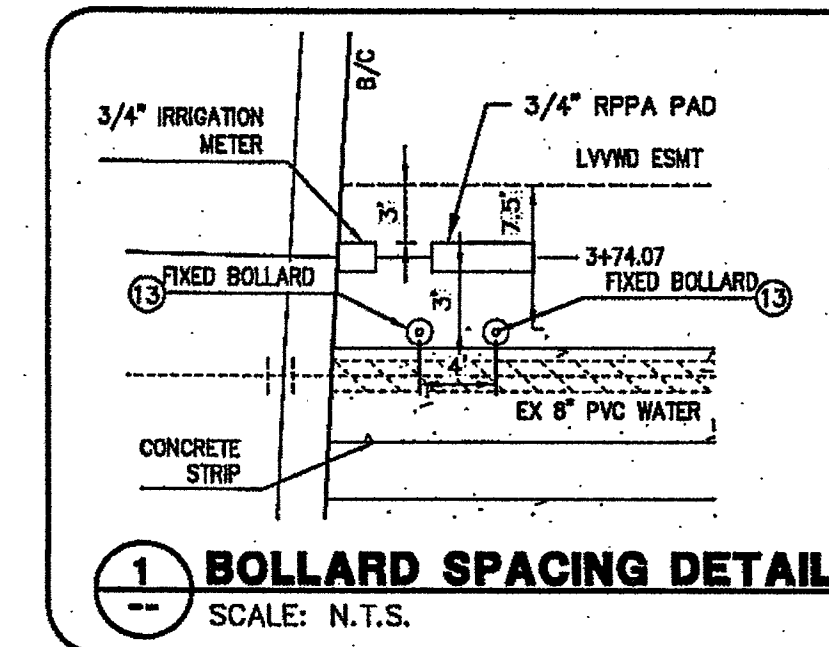


**REDUCED PRESSURE PRINCIPLE ASSEMBLY, (1)-1'**

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 6. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(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.



- CONSTRUCTION NOTES**
1. REMOVE CAP & BLOW-OFF PER UDACS PLATE NO. 36 AND CONNECT TO
  2. INSTALL 8"-5" BEND WITH RESTRAINED JOINTS.
  3. INSTALL 8"-11.25" BEND PER UDACS PLATE NO. 31.
  4. INSTALL 8"-45" BEND PER UDACS PLATE NO. 31.
  5. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 2 (TYP).
  6. INSTALL 8" FIRE HYDRANT, VALVES, TEE, & 8" WATER LINE PER UDACS PLATE NO. 40.
  7. INSTALL 8" PVC WATER PIPE.
  8. INSTALL 8" PVC WATER PIPE.
  9. INSTALL 8" GATE VALVE, BOX, AND COVER PER UDACS PLATE NO. 30 & 38.
  10. ADJUST EXISTING VALVE TO FINISHED GRADE PER UDACS PLATE #39.
  11. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
  12. ADJUST TO GRADE.
  13. INSTALL 1" WATER SERVICE WITH 3/4" METER AND 1" RPPA PER UDACS PLATE NO. 4 AND NO. 8.
  14. CONSTRUCT VEHICULAR PROTECTION BOLLARD PER UDACS PLATE NO. 75 (SEE DETAIL 1 SHEET U1 FOR SPACING).
  15. RELOCATE EXISTING FIRE HYDRANT PER "RELOCATION OF FIRE HYDRANTS" NOTE.

- CONSTRUCTION NOTES**
1. INSTALL 8" PVC SANITARY SEWER PIPE.
  2. REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
  3. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A.
  4. INSTALL SEWER LATERAL PER DCSWCS SD-22 (TYP).
  5. INSTALL SEWER LATERAL PER DCSWCS SD-22 AND 3.17.2 (LOT 25).
  6. INSTALL CORROSION PROTECTION PER DCSWCS 3.18.8.5.
- NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES
1. PROVIDE "RAVEN" LINING SYSTEM PER DCSWCS 2.2.10.1. USE FULL STRENGTH GROUT AND PROVIDE WATER TIGHT JOINTS USING AGENCY APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS STANDARDS.
  2. CAST IN PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS, BASE WALLS, AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULL, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.)

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY-WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 123789 DATE: 9/14/15

LVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

**APPROVED FOR CONSTRUCTION**

LAS VEGAS FIRE AND RESCUE

FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

DATE: 8/25/15

**SERVICE LATERALS FOR LOTS: 25-57 & 107-123**

WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

**LOTS: 25-41 & 118-128**

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. PRIVATE'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

**CLV FIRE DEPT. AS TO DATA AND REQUIREMENTS**

**FIRE FLOW CALCULATIONS:**

FIRE FLOW REQUIREMENTS IS 1,750 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE: < 4,800 SQ. FT.

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQ. FT.

BUILDING HEIGHT: 27' (MAX)

NUMBER OF STORES: 2 (MAX)

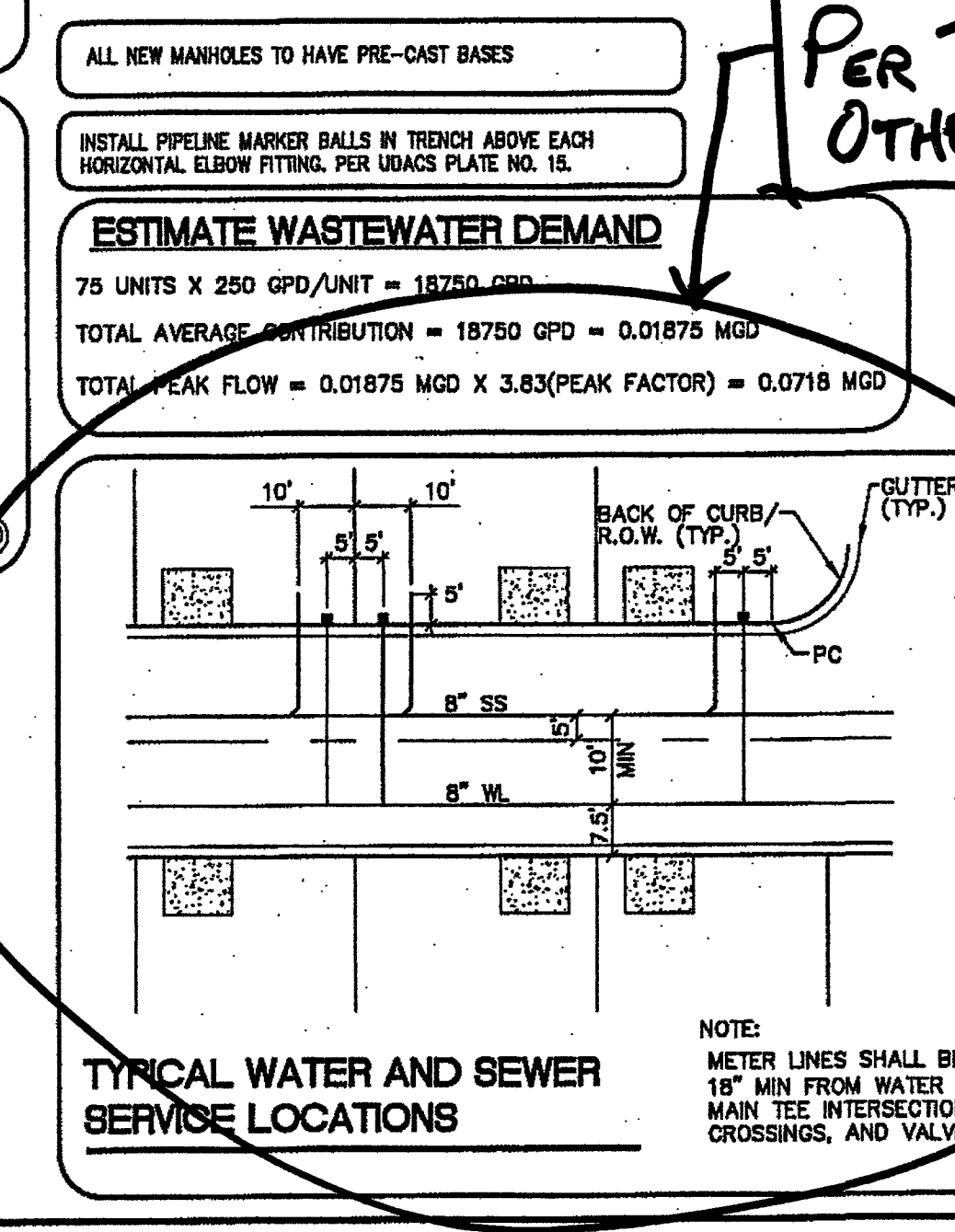
TYPE OF CONSTRUCTION: TYPE V-B

OCCUPANCY: SINGLE FAMILY YES / NO

FULL AUTOMATIC SPRINKLER SYSTEM: SINGLE FAMILY YES / NO

**FIRE HYDRANT LOCATION DETAIL**

SCALE: NOT TO SCALE



**WATER CLEARANCE NOTE**

3" MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED, DRY UTILITIES PER UDACS SECTION 2.04.02.

12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED DRY UTILITIES PER UDACS SECTION 2.04.05.

**GENERAL NOTES**

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR ELEVATION MARKINGS) UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRUCKING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP COILS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN INSA LEVEL 1 ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 92.6.01.02.
3. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (DOCS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

**SEWER CONNECTION NOTE**

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

**NOTE TO CONTRACTOR**

EXISTING UTILITY LOCATIONS SHOWN HEREON 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 COMMENCEMENT OF 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.

**BENCHMARK**

| BM #        | DESCRIPTION                                                                          | NAD 83 DATUM   | NAD 83 DATUM      |
|-------------|--------------------------------------------------------------------------------------|----------------|-------------------|
| BLV08-34NE6 | RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE | 3304.45 (FEET) | 1007.197 (METERS) |

**BASIS OF BEARINGS**

NORTH 89°45'00" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA

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**CONTRACTOR NOTE:**

**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 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

**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 EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

**STATE OF NEVADA**

**CLV SEWER AS-BUILT**

**PROJECT NO. 764-A23-002**

**DESIGNER: G.C. WALLACE COMPANIES**

**ENGINEERS | PLANNERS | SURVEYORS**

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**T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM**

**LAS VEGAS**

**PROJECT NO. 764-A23-002**

**DESIGNER: G.C. WALLACE COMPANIES**

**ENGINEERS | PLANNERS | SURVEYORS**

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**LAS VEGAS**

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**DESIGNER: G.C. WALLACE COMPANIES**

**ENGINEERS | PLANNERS | SURVEYORS**

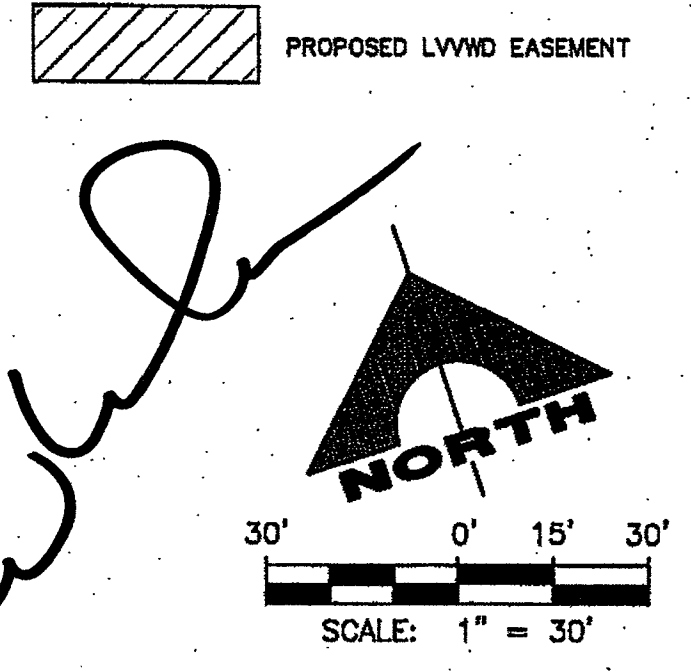
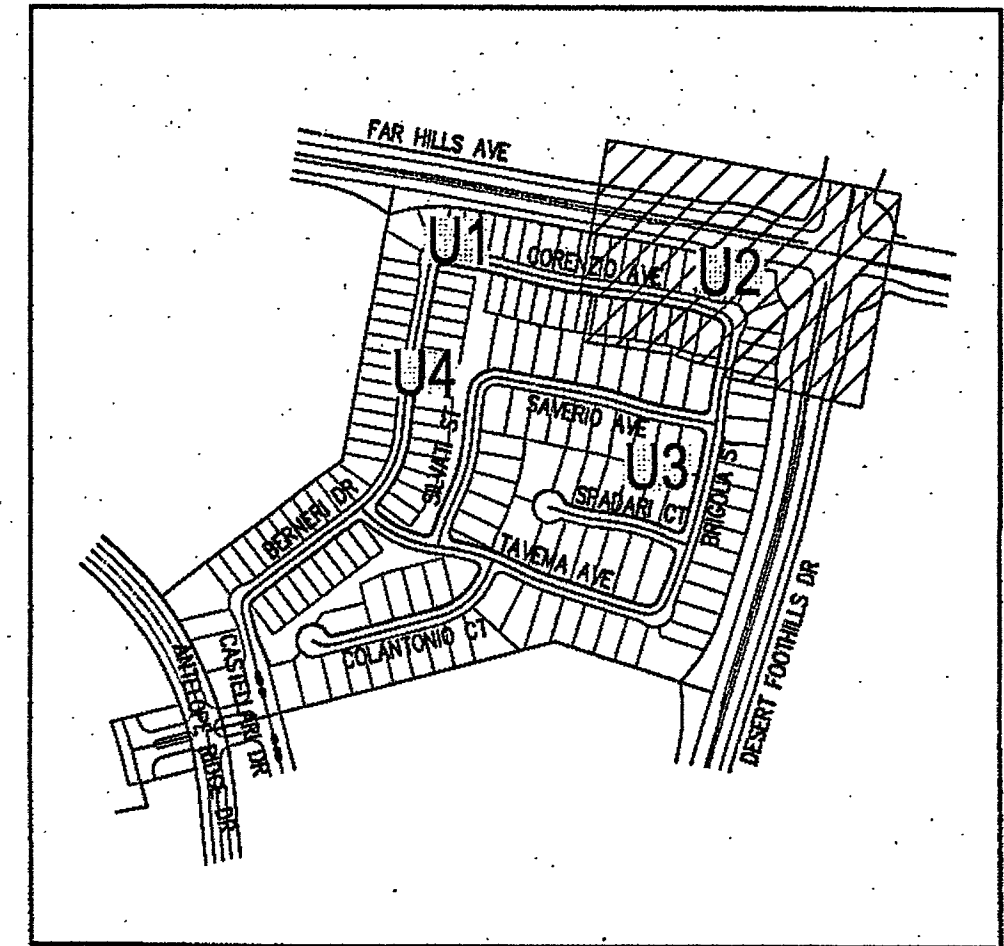
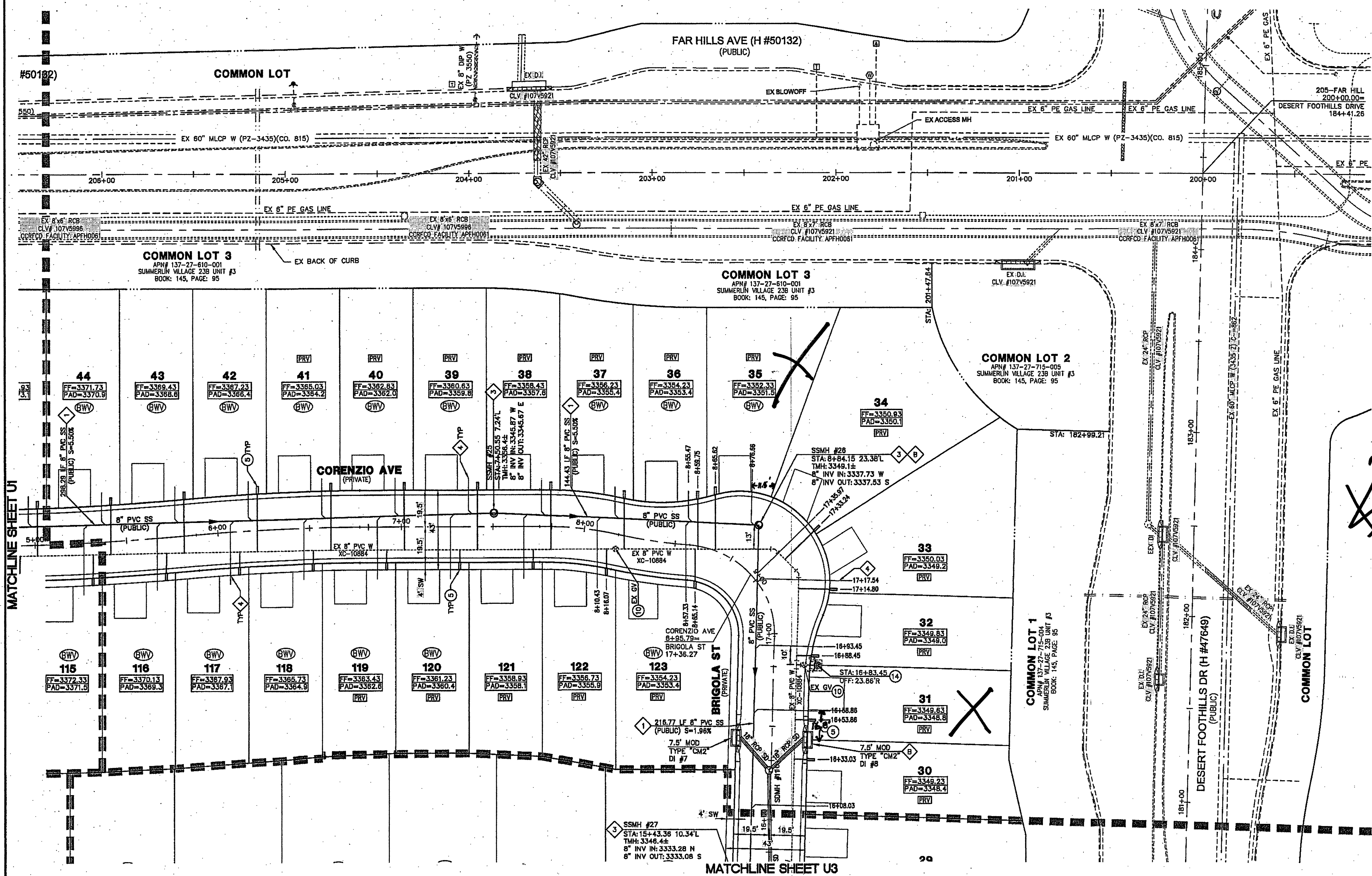
**1555 S. RAINBOW BLVD., LAS VEGAS, NV 89146**

**T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM**

<



# CLV SEWER AS-BUILT



- ### CONSTRUCTION NOTES
1. REMOVE CAP & BLOW-OFF PER UDACS PLATE NO. 36 AND CONNECT TO EXISTING 8" MAIN.
2. INSTALL 8"-5' BEND WITH RESTRAINED JOINTS.
3. INSTALL 8"-11.25' BEND PER UDACS PLATE NO. 31.
4. INSTALL 8"-45' BEND PER UDACS PLATE NO. 31.
5. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 2 (TYP).
6. INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
7. INSTALL 8" PVC WATER PIPE.
8. INSTALL 6" PVC WATER PIPE.
9. INSTALL 8" GATE VALVE, BOX, AND COVER PER UDACS PLATE NO. 30 & 39.
10. ADJUST EXISTING VALVE TO FINISHED GRADE PER UDACS PLATE #39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
11. ADJUST TO GRADE.
12. INSTALL 1" WATER SERVICE WITH 3/4" METER AND 1" RPPA PER UDACS PLATE NO. 4 AND NO. 8.
13. CONSTRUCT VEHICULAR PROTECTION BOLLARD PER UDACS PLATE NO. 75 (SEE DETAIL 1 SHEET U1 FOR SPACING).
14. RELOCATE EXISTING FIRE HYDRANT PER "RELOCATION OF FIRE HYDRANTS" NOTE.
- NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

- ### CONSTRUCTION NOTES
1. INSTALL 8" PVC SANITARY SEWER PIPE.
2. REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
3. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A.
4. INSTALL SEWER LATERAL PER DCSWCS SD-22 (TYP).
5. INSTALL SEWER LATERAL PER DCSWCS SD-22 AND 3.17.2 (LOT 25).
6. INSTALL CORROSION PROTECTION PER DCSWCS 3.16.8.B.
- NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES
7. PROVIDE "RAVEN" LINING SYSTEM PER DCSWCS 2.2.10.1. USE FULL STRENGTH GROUT AND PROVIDE WATERTIGHT JOINTS USING AGENCY APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS PER DCSWCS STANDARDS.
8. CAST IN PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS, AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULL, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.)

### RELOCATION OF FIRE HYDRANTS

(EXTENSION OF EXISTING LATERAL)

THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF THE EXISTING FIRE HYDRANT(S) WHERE SHOWN. EXTEND THE LATERAL AS REQUIRED, AND REINSTALL SUCH HYDRANT(S) AT THE NEW LOCATION(S) INDICATED. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION, UNDER THE DIRECTION OF DISTRICT, TO ENSURE QUALITY. INSTALLATION SHALL BE IN ACCORDANCE WITH UDACS PLATE 40. LATERALS MADE OF UNAPPROVED MATERIALS SHALL BE REPLACED FROM THE MAIN TO THE FIRE HYDRANT. RELOCATIONS WHERE THE LATERAL CANNOT BE EXTENDED SHALL BE TREATED AS NEW INSTALLATIONS.

### CONTRACTOR NOTE:

**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 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

**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 EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLY, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

### SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

| BENCHMARK   |                                                                                      |                      |                        |
|-------------|--------------------------------------------------------------------------------------|----------------------|------------------------|
| BM #        | DESCRIPTION                                                                          | NAVD 88 DATUM (FEET) | NAVD 88 DATUM (METERS) |
| BLV08-34NE6 | RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE | 3304.45              | 1007.197               |

**BASIS OF BEARINGS**

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA

### NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON 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.

### SERVICE LATERALS FOR LOTS 25-57 & 107-123

WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

G.C. WALLACE, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

### WATER CLEARANCE NOTE

3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED. DRY UTILITIES PER UDACS SECTION 2.04.02.

12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED DRY UTILITIES PER UDACS SECTION 2.04.05.

ALL NEW MANHOLES TO HAVE PRE-CAST BASES

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.

LOTS 25-41 & 118-128

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 DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

Call before you Dig

1-800-227-2800

1-702-455-6000

Call before you Dig

1-702-227-2929

Call before you Dig

UnderGround

1-702-455-6000

1-702-225-6611

- ### GENERAL NOTES
- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAINT MARKINGS) UNDER CLARK COUNTY'S JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR ADJUSTED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
  - IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN INSA LEVEL 1 ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.
  - ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
  - THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
  - FITTINGS SHALL NOT FALL UNDER CURBS, OUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

*L. D. SHARIK*

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 123769 DATE: 9/14/15

LVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION

*K. M. M.*

LAS VEGAS FIRE AND RESCUE

FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

DATE: 8/25/15

PROJECT NO. 764-123-002

DESIGNER: G.C. WALLACE COMPANIES

DRAWN: NSL

CHECK: NSL

DATE: 08-25-15

PLOT TIME: 07:28:41

PROJECT NO. 764-123-002

DESIGNER: G.C. WALLACE COMPANIES

DRAWN: NSL

CHECK: NSL

DATE: 08-25-15

PLOT TIME: 07:28:41

F. Projecta 700764-A122-001.DWG (Production) (P123-P123-L123)

Hao Nguyen

UTILITY PLAN II

PHASE 2

BB-UKA ESTRELLA

SUMMERLIN VILLAGE 23B PARCEL

FULTE HOMES

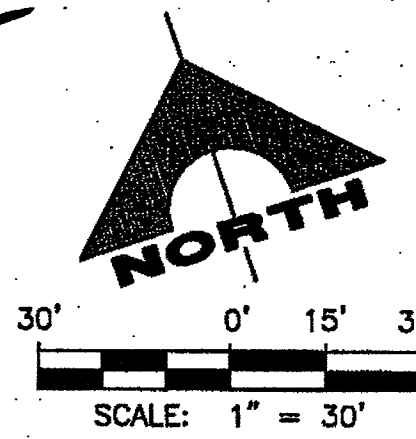
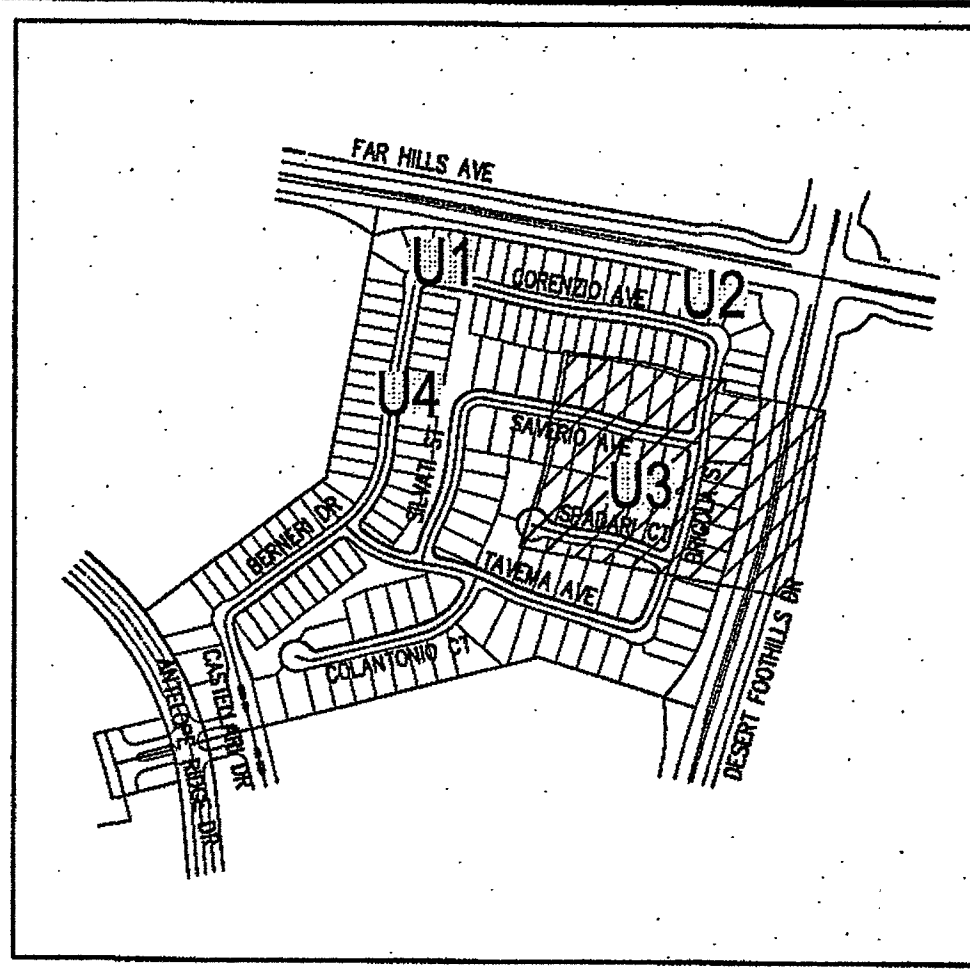
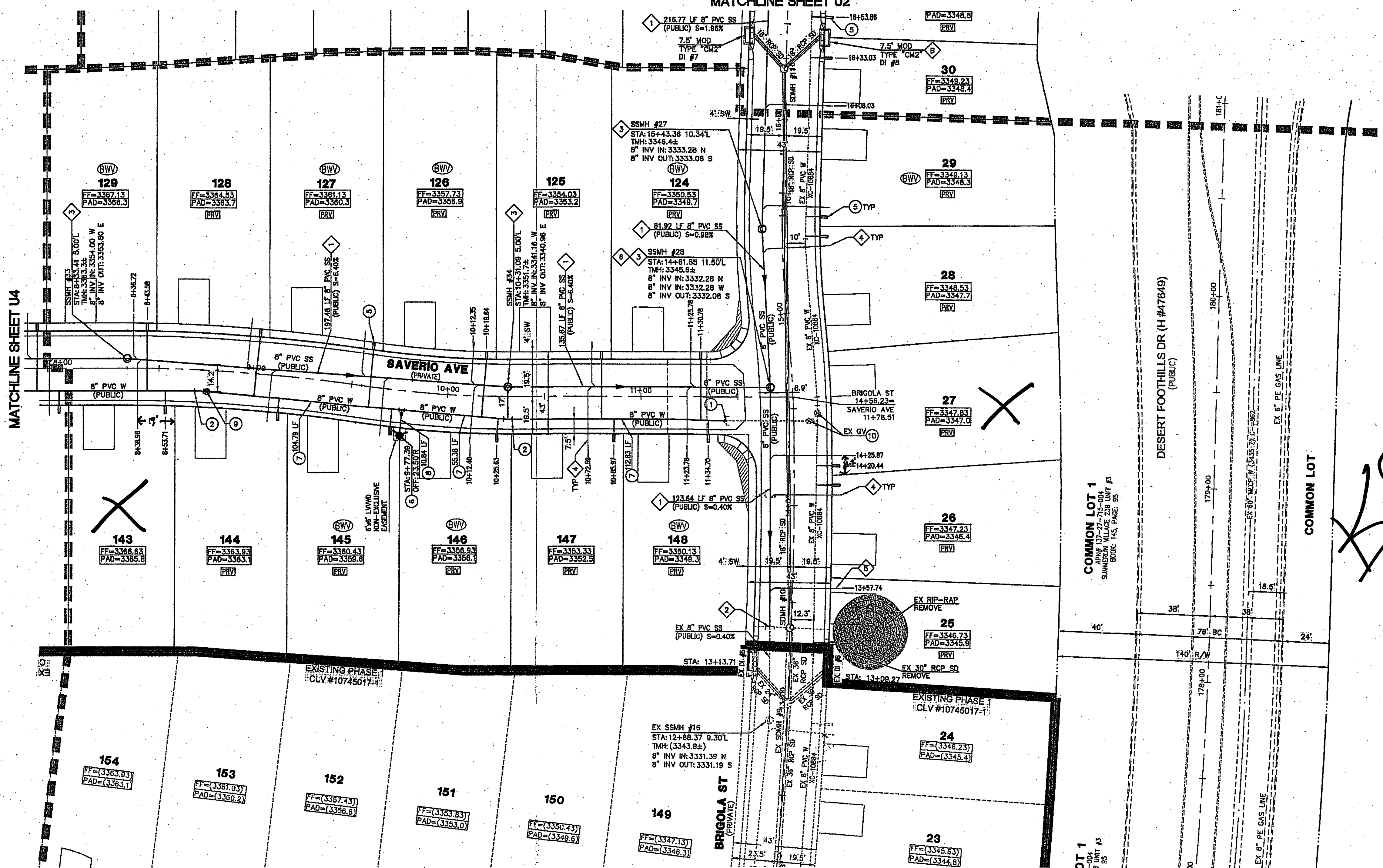
DRAWING U2

24 OF 30 SHTS



# CLW SEWER HS-BUILT

MATCHLINE SHEET U2



- ### CONSTRUCTION NOTES
- REMOVE CAP & BLOW-OFF PER UDACS PLATE NO. 38 AND CONNECT TO EXISTING 8" MAIN.
  - INSTALL 8"-5" BEND WITH RESTRAINED JOINTS.
  - INSTALL 8"-11.25" BEND PER UDACS PLATE NO. 31.
  - INSTALL 8"-45" BEND PER UDACS PLATE NO. 31.
  - INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 2 (TYP).
  - INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
  - INSTALL 8" PVC WATER PIPE.
  - INSTALL 6" PVC WATER PIPE.
  - INSTALL 8" GATE VALVE, BOX, AND COVER PER UDACS PLATE NO. 30 & 38.
  - ADJUST EXISTING VALVE TO FINISHED GRADE PER UDACS PLATE #38. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
  - ADJUST TO GRADE.
  - INSTALL 1" WATER SERVICE WITH 3/4" METER AND 1" RPPA PER UDACS PLATE NO. 4 AND NO. 8.
  - CONSTRUCT VEHICULAR PROTECTION BOLLARD PER UDACS PLATE NO. 75 (SEE DETAIL 1 SHEET U1 FOR SPACING).
  - RELOCATE EXISTING FIRE HYDRANT PER "RELOCATION OF FIRE HYDRANTS" NOTE.
- ### CONSTRUCTION NOTES
- INSTALL 8" PVC SANITARY SEWER PIPE.
  - REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
  - INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A.
  - INSTALL SEWER LATERAL PER DCSWCS SD-22 (TYP).
  - INSTALL SEWER LATERAL PER DCSWCS SD-22 AND 3.17.2 (LOT 25).
  - INSTALL CORROSION PROTECTION PER DCSWCS 3.16.8.B.
- NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

- ### GENERAL NOTES
- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS) UNDER CLARK COUNTY'S JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
  - IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN INSA LEVEL 1 ELECTRICIAN CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.6.01.02.
  - ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
  - THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
  - FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

### SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

### BENCHMARK

| BM #        | DESCRIPTION                                                                          | NAVD 88 DATUM  | NAVD 88 DATUM     |
|-------------|--------------------------------------------------------------------------------------|----------------|-------------------|
| BLVGB-34NE6 | RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE | 3304.45 (FEET) | 1007.197 (METERS) |

### BASIS OF BEARINGS

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 69 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA

### NOTE TO CONTRACTOR

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SERVICE LATERALS FOR LOTS: 25-57 & 107-123. WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVVWD.

G.C. WALLACE, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

### WATER CLEARANCE NOTE

3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED DRY UTILITIES PER UDACS SECTION 2.04.02.

12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED DRY UTILITIES PER UDACS SECTION 2.04.05.

ALL NEW MANHOLES TO HAVE PRE-CAST BASES

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 16.

LOTS: 25-41 & 118-128  
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. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

Call before you Dig  
811  
1-800-227-2800  
CLARK COUNTY WATER DEPARTMENT  
1-702-455-9000

Call before you Dig  
UnderGround  
1-702-455-6000  
1-702-227-2929

Call before you Dig  
UnderGround  
1-702-455-6000  
1-702-227-6611

### CONTRACTOR NOTE:

#### EXISTING SERVICES

IF ANY OF 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.

#### 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 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

#### 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 EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

APPROVED FOR CONSTRUCTION  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
PROJECT NO. 123798  
DATE: 9/14/15  
LVVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION  
LAS VEGAS FIRE AND RESCUE  
FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL  
DATE: 8/25/15

PROJECT NO. 764-AB2-002

DESIGN: NSL

CHECK: NSL

PLOT DATE: 08-25-15

PLOT TIME: 07:28:45

PROJECT NO. 764-AB2-002

DESIGN: NSL

CHECK: NSL

PLOT DATE: 08-25-15

PLOT TIME: 07:28:45

G.C. WALLACE COMPANIES  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BLVD. - LAS VEGAS, NV 89146  
TEL: 702.804.2000 - FAX: 702.804.2299 - GCWALLACE.COM

LAS VEGAS

F:\Projects\764\764-AB2-002\DWG\Production\764-AB2-002-11.dwg

Hao Nguyen

PULTE HOMES

SUMMERLIN VILLAGE 238 PARCEL BB-(AKA ESTRELLA)

PHASE 2

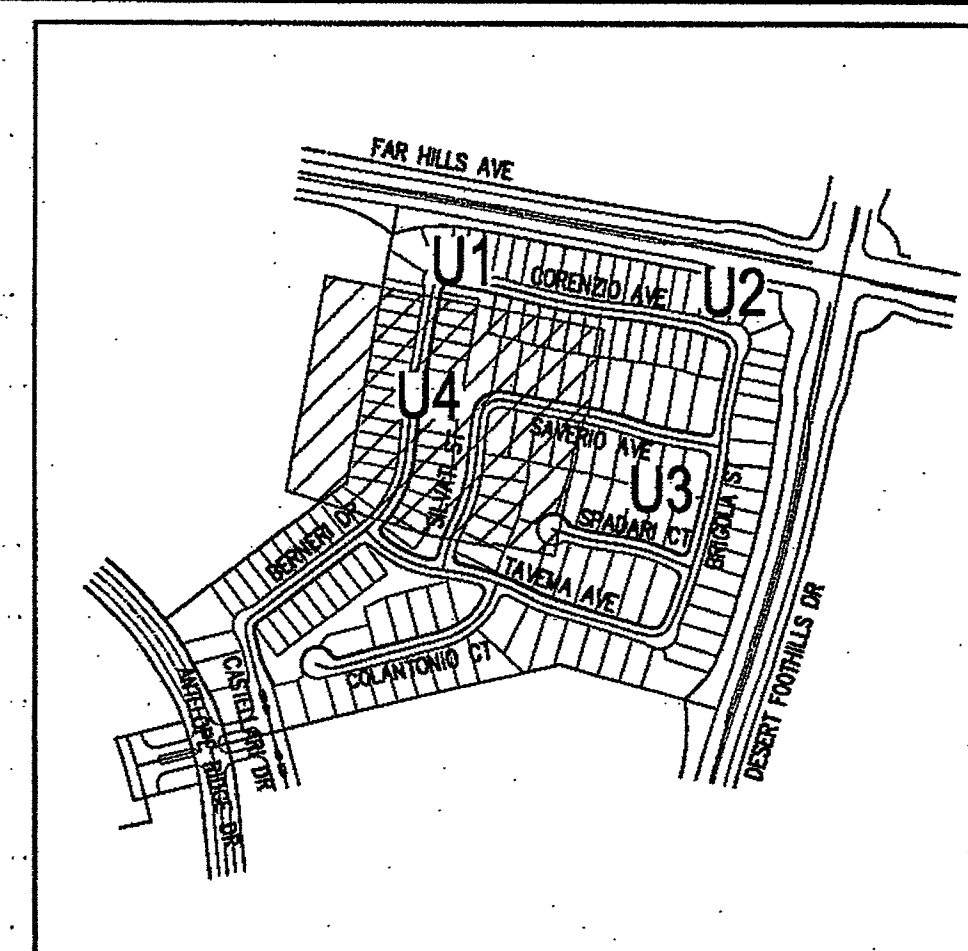
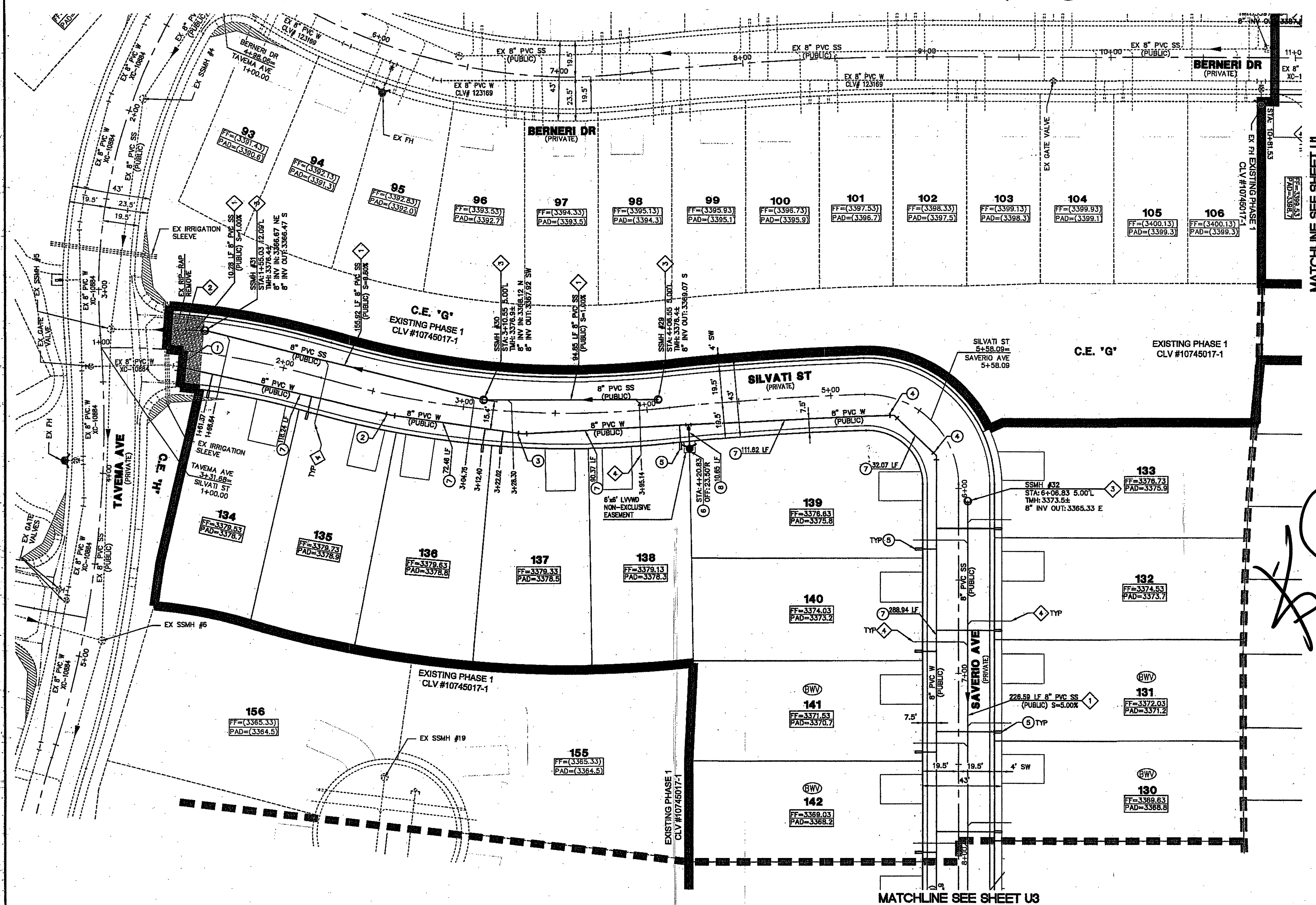
UTILITY PLAN III

DRAWING U3

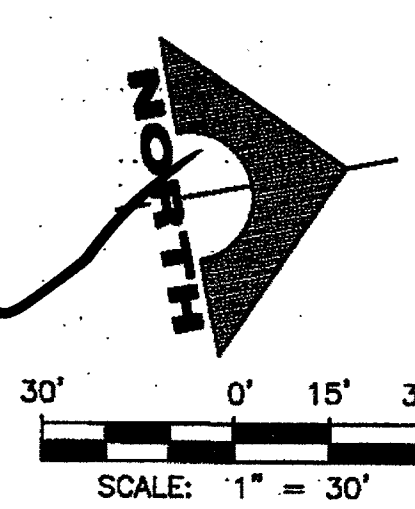
25 OF 30 SHEETS



# CLV SEWER AS-BUILT



PROPOSED LVWD EASEMENT



- ### CONSTRUCTION NOTES
- REMOVE CAP & BLOW-OFF PER UDACS PLATE NO. 36 AND CONNECT TO EXISTING 8" MAIN.
  - INSTALL 8"-5' BEND WITH RESTRAINED JOINTS.
  - INSTALL 8"-11.25' BEND PER UDACS PLATE NO. 31.
  - INSTALL 8"-45' BEND PER UDACS PLATE NO. 31.
  - INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 2 (TYP).
  - INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
  - INSTALL 8" PVC WATER PIPE.
  - INSTALL 6" PVC WATER PIPE.
  - INSTALL 8" GATE VALVE, BOX, AND COVER PER UDACS PLATE NO. 30 & 38.
  - ADJUST EXISTING VALVE TO FINISHED GRADE PER UDACS PLATE #38.
  - VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
  - ADJUST TO GRADE.
  - INSTALL 1" WATER SERVICE WITH 3/4" METER AND 1" RPPA PER UDACS PLATE NO. 4 AND NO. 8.
  - CONSTRUCT VEHICULAR PROTECTION BOLLARD PER UDACS PLATE NO. 75 (SEE DETAIL 1 SHEET U1 FOR SPACING).
  - RELOCATE EXISTING FIRE HYDRANT PER "RELOCATION OF FIRE HYDRANTS" NOTE.
- ### CONSTRUCTION NOTES
- INSTALL 8" PVC SANITARY SEWER PIPE.
  - REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
  - INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A.
  - INSTALL SEWER LATERAL PER DCSWCS SD-22 (TYP).
  - INSTALL SEWER LATERAL PER DCSWCS SD-22 AND 3.17.2 (LOT 25).
  - INSTALL CORROSION PROTECTION PER DCSWCS 3.16.8.B.
- NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

### SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

### BENCHMARK

| BM #        | DESCRIPTION                                                                          | NAVD 88 DATUM  | NAVD 88 DATUM     |
|-------------|--------------------------------------------------------------------------------------|----------------|-------------------|
| SLV09-34NE6 | RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE | 3304.45 (FEET) | 1007.197 (METERS) |

### BASIS OF BEARINGS

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE #1, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA

### NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON 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.

### SERVICE LATERALS FOR LOTS 95-97 & 107-123

WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

G.C. WALLACE, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

### WATER CLEARANCE NOTE

3" MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED DRY UTILITIES PER UDACS SECTION 2.04.02.  
12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN EXISTING WATER LINES AND PROPOSED DRY UTILITIES PER UDACS SECTION 2.04.05.

### ALL NEW MANHOLES TO HAVE PRE-CAST BASES

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.

LOTS 95-97 & 112-128  
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 DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

Call before you Dig

1-800-227-2000  
1-702-455-6000

Call before you Dig

1-702-227-2929

Call before you Dig

UnderGround  
1-702-455-6000  
1-702-228-6611

### CONTRACTOR NOTE

#### EXISTING SERVICES

IF ANY OF 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.

#### WATER MAIN JOINT DEFLECTION (FIG. 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 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

#### 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 EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

### APPROVED FOR CONSTRUCTION

*Dishari B. Dm*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
PROJECT NO. 123789 DATE: 9/14/15  
LVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

### APPROVED FOR CONSTRUCTION

*R.M.H.*  
LAS VEGAS FIRE AND RESCUE  
FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL  
DATE: 8/25/15  
H# 60098 CLV DWG# 1075017-2

PROJECT NO. 704-A123-002  
DESIGNER: G.C. WALLACE COMPANIES  
DRAWN: J. WALLACE  
CHECK: J. WALLACE  
PLOT DATE: 08-24-15  
PLOT TIME: 14:35:45  
REV: DATE DESCRIPTION

G.C. WALLACE COMPANIES  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146  
TEL: 702.804.2000 • FAX: 702.804.2299 • GCVALLACE.COM

FULTE HOMES  
SUMMIT VILLAGE 238 PARCEL BB (AKA ESTRELLA)  
PHASE 2  
UTILITY PLAN IV  
DRAWING U4  
26 OF 30 SHEETS