CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SUMMERLIN IMPROVEMENT STANDARDS AS APPROVED BY THE CITY COUNCIL ON 11/18/92, SIGNED BY CITY OF LAS VEGAS 2/2/93, AND REVISED 9/15/99, UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST NEVADA". LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 4500 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE CITY PRIOR TO USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
8. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMP ACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS
9. CURB & GUTTER WITH A GRADE OF LESS THAN FIVE TENTHS OF ONE PERCENT SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR PER SUMMERLIN STD DRAWING NO. S-47.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED AS SHOWN ON PLANS PER SUMMERLIN STD. DRAWING NO. S-75. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAW CUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOW LINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
16. WALL NOTES:
17. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
18. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
19. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
20. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT'S ORDINANCE # 5115, "HYDRANT SPECIFICATIONS", AND "HYDRANT INSTALLATION SPECIFICATION".
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
   A. KENNEDY – GUARDIAN MODELS K81A AND K81D
   B. MUELLER SUPER CENTURION 250 MODEL A-423
   C. CLOW – MODEL F-2546LV
3. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION; ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW.
4. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS AS REQUIRED BY ORDINANCE #5115.
5. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CALL THE CITY OF LAS VEGAS INSPECTION HOT-LINE AT 229-2071 TO REQUEST AN INSPECTION BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
6. PAINTING OF THE CURBS AND HYDRANTS AND ALL OTHER WORK NECESSARY AS REQUIRED BY ORDINANCE #5115, FOR THE PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
8. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
9. PRIOR TO THE FINAL OCCUPANCY, A FLOW TEST MUST BE WITNESSED BY THE CITY OF LAS VEGAS FIRE DEPARTMENT TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
10. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED, AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE.
11. FIRE HYDRANT SPACING:
    RESIDENTIAL – 500 FEET W/O SPRINKLERS 1000 FEET W/ SPRINKLERS.
    COMMERCIAL– 300 FEET W/O SPRINKLERS; 600 FEET W/ SPRINKLERS.
12. WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT MAXIMUM 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS.
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN TWENTY FEET (20') OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN SIX FEET (6') OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
15. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET.
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE.
17. TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE FOUR (4) OR MORE FIRE HYDRANTS/ LEAD-INS INSTALLED ON A SINGLE SYSTEM.
18. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.
19. ALL FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN TWENTY FEET (20') (FLOW LINE TO FLOW LINE), PROVIDED NO PARKING IS ALLOWED ON EITHER SIDE, TWENTY- EIGHT FEET (28') (FLOW LINE TO FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON ONE SIDE ONLY, AND THIRTY-SIX FEET (36') (FLOW LINE TO FLOW LINE) IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. VERTICAL CLEARANCE SHALL NOT BE LESS THAN THIRTEEN FEET, SIX INCHES (13'6").
20. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS.
21. THE GRADIENT FOR A FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE.
22. THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD SHALL BE NO LESS THAN FORTY-FIVE FEET (45') OUTSIDE RADIUS AND TWENTY-TWO FEET (22') INSIDE RADIUS.
23. A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN ONE HUNDRED FIFTY FEET (150') FROM A FIRE DEPARTMENT VEHICLE ACCESS (SEE EXCEPTIONS IN UFC 97, SECTION 902.2).
24. ALL DEAD END FIRE APPARATUS ACCESS ROADS, PUBLIC OR PRIVATE, IN EXCESS OF ONE HUNDRED FIFTY FEET (150') IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA HAVING A MINIMUM DIAMETER OF 81 FEET (BACK OF CURB TO THE BACK OF CURB).
25. ALL FIRE APPARATUS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND AT INTERVALS OF ONE HUNDRED FEET (100') ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY, IF NEEDED, TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN TEN FEET (10') OR LESS THAN SIX FEET (6') FROM ROADWAY LEVEL. THE CURBS ALONG OR ON THE PAVEMENT OR CEMENT, IF CURB IS NOT PROVIDED, SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
26. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/ RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES. 33138

LEGEND & ABBREVIATION

- (1) DETAIL DRAWING NUMBER
- (1/-) DRAWING NUMBER FOR DETAIL DRAWN ON SAME SHEET
- (1/7) DRAWING NUMBER FOR DETAIL WITH REFERENCE TO THE SHEET IT IS DRAWN ON
- (D1, D2 / S) DRAWING NUMBER(S) FOR DETAIL(S) PER SUMMERLIN IMPROVEMENTS STANDARDS, OR PER STANDARDS IN ABBREVIATION TABLE
- (I) INDICATES CONSTRUCTION NOTE
- (R) INDICATES REMOVAL NOTE
- INDICATES CURVE NUMBER
- INDICATES SEWER MANHOLE IN PROFILE
- INDICATES STORM DRAIN MANHOLE IN PROFILE
- (60.5) TC EXIST. SPOT ELEVATION
- END PIPE & PLUG
- CONCRETE ENCASEMENT

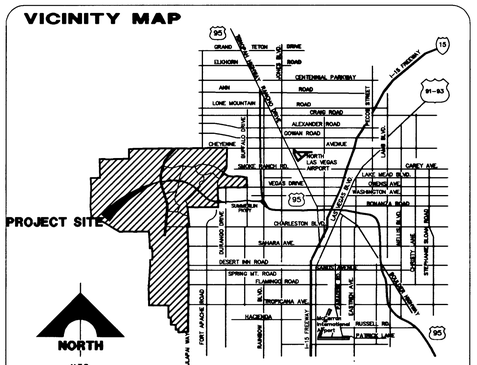
EMBANKMENT
TOP
BOTTOM
PROPOSED
BY SEPARATE CONTRACT
EXISTING

ABBREVIATION

I	= IMPROVEMENTS
W	= WATER
S	= SEWER
SD	= STORM DRAIN
SL	= STREET LIGHTING
SIG	= TRAFFIC SIGNAL
SMH	= SEWER MANHOLE
SDMH	= STORM DRAIN MANHOLE
CLV	= CITY OF LAS VEGAS
LVVWD	= LAS VEGAS VALLEY WATER DISTRICT
NDOT	= NEVADA DEPT. OF TRANSPORTATION
THHC	= THE HOWARD HUGHES CORPORATION
UDS	= UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS)

NOTE: LEGEND & ABBREVIATIONS IN THE "SUMMERLIN IMPROVEMENT STANDARDS", LATEST EDITION, WILL BE UTILIZED FOR ANY LEGEND & ABBREVIATION REQUIRED WHICH ARE NOT SHOWN.

VICINITY MAP



BASIS OF BEARING

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20, 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.

STREET QUANTITIES (PUBLIC)

STREETS		
3" A.C. PAVEMENT	21,555	S.Y.
4" A.C. PAVEMENT	40,187	S.Y.
TYPE II BASE	13,720	C.Y.
8" TYPE "L" C & G	8,276	L.F.
6" TYPE "L" C & G	13,449	L.F.
TYPE "A" CURBS	10,016	L.F.
ADJUST EX FACILITY TO GRADE	65	EA.
STREET LIGHTS		
SINGLE ARM ST. LT.	42	EA.
DOUBLE ARM ST. LT.	36	EA.
CONDUIT	19,101	L.F.
IRRIGATION		
IRRIGATION SLEEVES	1,424	L.F.
1 1/2" METER W/ RPPA	1	L.F.
2" METER W/ RPPA	2	L.F.

INDEX OF DRAWINGS

1 COVER SHEET
2 PROJECT DATA SHEET
3 HORIZONTAL CONTROL PLAN
4 HORIZONTAL CONTROL PLAN
5 HORIZONTAL CONTROL PLAN
6 MASTER WATER PLAN
7 MASTER SEWER PLAN
8 MASTER STORM DRAIN PLAN
9 VISTA RUN DRIVE PLAN AND PROFILE, START TO STA. 138+00
10 VISTA RUN DRIVE PLAN AND PROFILE, STA. 138+00 TO STA. 144+00
11 VISTA RUN DRIVE PLAN AND PROFILE, STA. 144+00 TO STA. 148+00
12 VISTA RUN DRIVE PLAN AND PROFILE, STA. 148+00 TO STA. 154+00
13 VISTA RUN DRIVE PLAN AND PROFILE, STA. 154+00 TO STA. 160+00
14 VISTA RUN DRIVE PLAN AND PROFILE, STA. 160+00 TO STA. 166+00
15 VISTA RUN DRIVE PLAN AND PROFILE, STA. 166+00 TO STA. 171+00
16 VISTA RUN DRIVE PLAN AND PROFILE, STA. 171+00 TO STA. 176+00
17 VISTA RUN DRIVE PLAN AND PROFILE, STA. 176+00 TO STA. 178+66.70
18 FAR HILLS AVE PLAN AND PROFILE, START TO STA. 469+25.00
19 FAR HILLS AVE PLAN AND PROFILE, STA. 469+25.00 TO STA. 474+75.00
20 FAR HILLS AVE PLAN AND PROFILE, STA. 474+75.00 TO STA. 480+60.00
21 FAR HILLS AVE PLAN AND PROFILE, STA. 480+60.00 TO 485+16.82
22 ALTA DRIVE PLAN AND PROFILE, START TO STA. 448+00
23 ALTA DRIVE PLAN AND PROFILE, STA. 448+00 TO STA. 453+00
24 ALTA DRIVE PLAN AND PROFILE, STA. 453+00 TO STA. 458+00
25 ALTA DRIVE PLAN AND PROFILE, STA. 458+00 TO STA. 463+00
26 ALTA DRIVE PLAN AND PROFILE, STA. 463+00 TO STA. 468+00
27 ALTA DRIVE PLAN STA. 468+00 TO STA. 473+00
28 ALTA DRIVE PROFILE, STA. 468+00 TO STA. 473+00
29 ALTA DRIVE PLAN AND PROFILE, STA. 473+00 TO STA.478+00
30 ALTA DRIVE PLAN AND PROFILE, STA. 478+00 TO STA. 483+00
31 ALTA DRIVE PLAN AND PROFILE, STA. 483+00 TO END OF IMPROVEMENTS
32 MOUNTAIN SHADOW ROAD PLAN AND PROFILE, STA. START TO STA. 95+00
33 MOUNTAIN SHADOW ROAD PLAN AND PROFILE, STA. 95+00 TO END
34 STREET CROSS SECTIONS
35 LATERAL PROFILES
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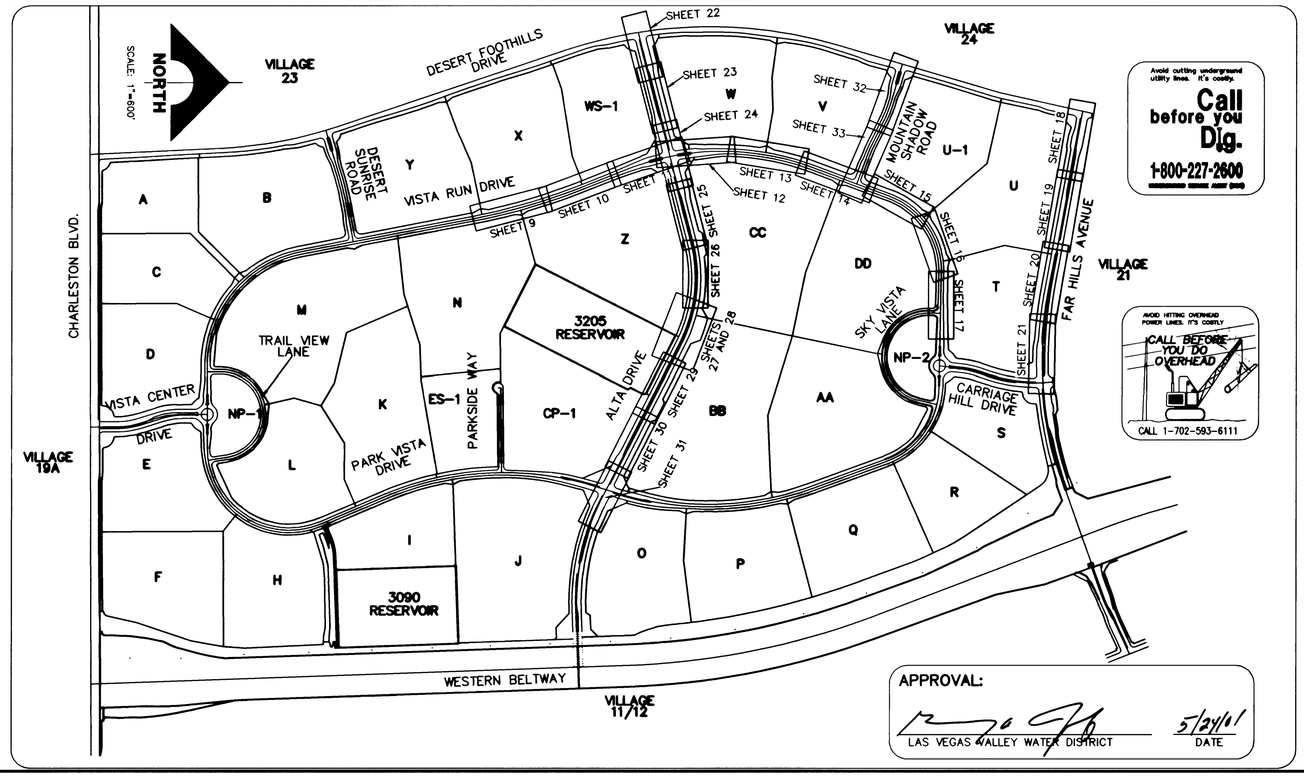
STREET CLASSIFICATION

VISTA RUN DRIVE:	NEIGHBORHOOD COLLECTOR
FAR HILLS AVENUE:	NEIGHBORHOOD ARTERIAL
ALTA DRIVE:	NEIGHBORHOOD ARTERIAL
MOUNTAIN SHADOW ROAD:	NEIGHBORHOOD COLLECTOR



Avoid cutting underground utility lines. It's costly.
Call before you Dig.
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
CALL 1-702-593-6111

APPROVAL:

LAS VEGAS VALLEY WATER DISTRICT — DATE 5/24/01

CONSTRUCTION NOTES

IMPROVEMENTS

- (I) INSTALL A.C. PAVEMENT PER STREET SECTIONS, SEE SHEET 34
- (I) INSTALL 6" "L" TYPE CURB & GUTTER (S-47 / S)
- (I) INSTALL 8" "L" TYPE CURB & GUTTER (S-47A / S)
- (I) INSTALL "A" TYPE ISLAND CURB (S-90 / S)
- (I) INSTALL 6" TO 8" CURB TRANSITION
- (I) INSTALL HANDICAP RAMP CURB DEPRESSION (S-75 / S)
- (I) ADJUST EXISTING FACILITY TO GRADE
- (I) INSTALL CROSS GUTTER (S-64 / S)

WATER

- (W) INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY
- (W) INSTALL FIRE HYDRANT ASSEMBLY (7 / UDS)
- (W) INSTALL 8" GATE VALVE & BOX (8 / UDS)
- (W) INSTALL 12" GATE VALVE & BOX (8 / UDS)
- (W) INSTALL 6" GATE VALVE & BOX (8 / UDS)
- (W) INSTALL 20" GATE VALVE AND BOX (8 / UDS)

SEWER

- (S) INSTALL 48" DIA. SEWER MANHOLE (SD-1 / DCSMCS)
- (S) INSTALL TEMPORARY PLUG AND CAP
- (S) INSTALL 60" DIA. DEEP SEWER MANHOLE (8 / 40)

STORM DRAIN

- (SD) INSTALL TYPE "B" DROP INLET (412 / UDS, 2 / 41)
- (SD) INSTALL TYPE II STORM DRAIN MANHOLE (408 / UDS)
- (SD) INSTALL TYPE III STORM DRAIN MANHOLE (408 / UDS)
- (SD) INSTALL TEMPORARY PLUG
- (SD) INSTALL TYPE "A" DROP INLET (D-12 / S, 2 / 41)
- (SD) INSTALL TYPE "C" DROP INLET (413.2 / UDS, 2 / 41)
- (SD) INSTALL MODIFIED TYPE "C" DROP INLET (1 / 41, 2 / 41)

STREET LIGHTING

- (SL) STREET LIGHT OR COMMON TRENCH, SEE ELECTRICAL PLAN
- (SL) INSTALL SINGLE STREET LIGHT, SEE ELECTRICAL PLAN (E-2 / S)
- (SL) INSTALL DOUBLE STREET LIGHT, SEE ELECTRICAL PLAN (E-2 / S)
- (SL) INSTALL STREET LIGHT PULLBOX, SEE STREET LIGHT PLAN (E-30 / S, 404.110 / USD)

IRRIGATION

- (IR) BANK "A"; 1-6" & 2-4" SDR35 PVC (U-18 / S)
- (IR) BANK "B"; 2-4" SDR35 PVC (U-18 / S)

TRAFFIC

- (TS) INSTALL 2-3" CONDUIT
- (TS) INSTALL NO. 3.5 PULLBOX (E-30 / S, 404.110 / USD)
- (TS) INSTALL NO. 7 PULLBOX (E-30 / S, 404.120 / USD)
- (TS) INSTALL 3" PVC CONDUIT FOR TRAFFIC SIGNAL INTERCONNECT (W/ 1" INNERDUCT) AND PULLBOXES AS IDENTIFIED PER PLAN (500' MAX) WITH 2' RADIUS SWEEPS INTO PULLBOXES FOR FUTURE FIBER OPTIC.
- (TS) INSTALL TYPE I, FOUNDATION, XX-A POLE W/O MAST ARM, 400 W LUMINARE PER USD NO'S 404.209 AND 404.406
- (TS) INSTALL 2-2" CONDUIT FOR TRAFFIC SIGNALS
- (TS) INSTALL NO. 5 PULLBOX (E-30 / S, 404.120 / USD)

NOTE TO CONTRACTOR:

1. ALL EXISTING UTILITY CROSSINGS MUST BE VERIFIED PRIOR TO CONSTRUCTION OF ANY MAIN LINES OR LATERALS THAT MAY BE ADVERSELY EFFECTED. ANY DISCREPANCIES IN LOCATION AND/OR ELEVATION MUST BE PROVIDED TO THE ENGINEER FOR ACCEPTANCE PRIOR TO CONSTRUCTION.
2. TOPOGRAPHY SHOWN HEREIN REFLECTS ORIGINAL EXISTING TOPOGRAPHY. ACTUAL FIELD CONDITIONS INCLUDE SITE ROUGH GRADING.
3. ALL COMMON LOTS AS SHOWN HEREIN TO BE PRIVATELY MAINTAINED BY THE SUMMERLIN H.O.A. A FUTURE MEANDERING SIDEWALK WILL BE INSTALLED BY SUMMERLIN AS REQUIRED TO SERVICE THE DEVELOPMENT OF EACH PARCEL.
4. ALL WATER LINE GATE VALVES, SERVICE GATE VALVES, AND FIRE HYDRANT GATE VALVES ARE TO BE CONSTRUCTED UNDER A.C. PAVEMENT. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL WATER VALVE CANS DO NOT CREATE CONFLICTS WITH THE PROPOSED CURB LINE PRIOR TO PLACEMENT OF CONCRETE. ALL WATER FACILITIES SHOWN IN THESE DRAWINGS HAVE BEEN "SCALED-UP" FOR CLARITY ONLY.

DEVIATIONS

1. POTENTIALLY SIGNALIZED INTERSECTION DESIGNS VARY FROM THE STANDARD 2% CROWN, TO INCLUDE A 0.5% CROWNED CROSS SLOPE TO INTERSECTIONS THAT ARE STRAIGHT GRADED ACROSS THEIR REACH (IE, NO CROWN), WITH CROSS GRADES OF 0.5% TO 3%.
2. MINIMUM LENGTHS OF TANGENTS AT INTERSECTIONS AND BETWEEN REVERSE CURVES ARE LESS THAN REQUIRED BY S.I.S. DWG. NO. DC-1.
3. ANTICIPATED MAXIMUM SANITARY SEWER VELOCITIES WILL EXCEED 10 F.P.S. IN ISOLATED ROADWAYS. PRIMARILY, THESE ARE THE VILLAGE 20 EAST-WEST DIRECTION OF ROADS DESIGNED TO FOLLOW THE EXISTING TOPOGRAPHY WHICH HAS 4% TO 6% NATURED SLOPES. C-900 SANITARY SEWER PIPE, HAVING THICKER WALLS THAN SDR-35, WILL BE USED TO COMPENSATE FOR THE HIGHER VELOCITIES.

BENCHMARK

NDOT BRASS REFERENCE CAP, 50.00 FEET NORTH OF STATION 787+19.42 OF CHARLESTON BLVD. (NO. OLV09-34SSE6)

*3209.81	NAVD 1988 DATUM (978.351 M)	
3207.61	SUMMERLIN DATUM	

* THIS PROJECT BASED ON NAVD 1988 DATUM

107-V3459

BERT A. HUGHES No. 10298 STATE OF NEVADA PROFESSIONAL ENGINEER CIVIL — DATE 5/24/01

REV	DATE	DESCRIPTION	DATE	AGEN. APP.	DATE	ENGR. APP.

DESIGN: AJJ
DRAWN: AJJ
CHECK: BAH
ISSUE DATE:
ISSUE EDITOR:
PLOT DATE: 05-22-01
PLOT TIME: 09:55:59
Johnson

G.C. WALLACE, INC.
Engineering/Architecture
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
PHONE (702) 804-2000 • FAX: (702) 804-2299
F:\v20\Unit3\dwg\Comp\V2003022.dwg

SUMMERLIN
VILLAGE 20 - UNIT 3 IMPROVEMENTS
PROJECT DATA SHEET

SHEET 2 OF 54 SHTS

JOB NO. 62020.223