LEGEND

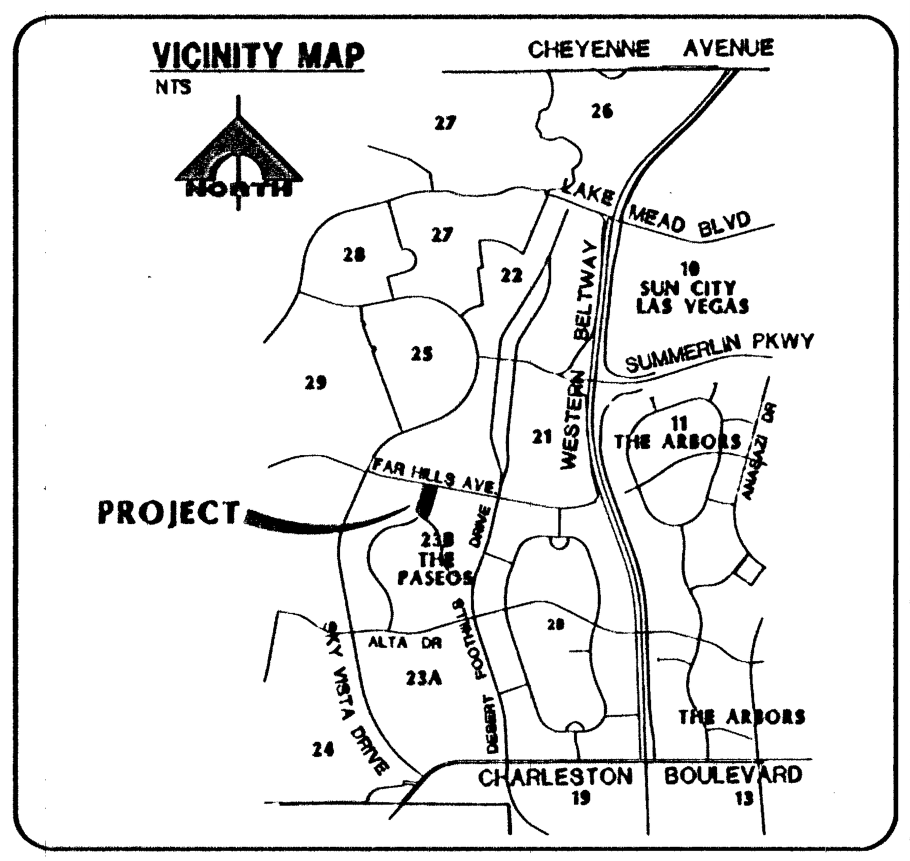
- PROPOSED UTILITIES
- EXISTING UTILITIES (EX UTIL)
- FUTURE UTILITIES
- SECTION LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- CENTERLINE
- 100 YR HYDRAULIC GRADE LINE
- PROPOSED SEWER W/ MH AND CAP
- PROPOSED SD W/ MH AND DROP INLET
- PROPOSED WATER W/ GV AND CAP W/ BO
- STEEL SLEEVE
- CONCRETE ENCASEMENT
- EXISTING OVERHEAD AND POWER POLES (OHP)
- EXISTING SIDEWALK AND RAMP
- IRRIGATION LINE
- ABANDONED PIPE
- EXISTING ABANDONMENT
- SAWCUT
- APPROXIMATE PAVEMENT RESTORATION
- TO BE ABANDONED PROFILE HATCH
- STUB & PLUG PIPE
- 100-YR HGL (ULT)
- 100-YR HGL (INT)
- PROPOSED CONTOUR (3005)
- EXISTING CONTOUR
- DRAWING NUMBER FOR DETAIL W/ REF. TO THE SHEET WHERE IT IS SHOWN (1 / CD1)
- BENCHMARK
- POTHOLE LOCATION
- SEWER BACK WATER VALVE (BWV)
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- EXISTING DROP INLET
- EXISTING GATE VALVE
- EXISTING WATER METER
- EXISTING TRAFFIC SIGNAL PULL BOX
- EXISTING TELEPHONE MANHOLE
- EXISTING POWER POLE
- EXISTING ELEC MARKER
- EXISTING SERVICE PEDESTAL
- EXISTING FIRE HYDRANT
- EXISTING UTILITY BOX
- EXISTING METER BOX
- SPOT ELEVATION (60.50 / TC)
- EXISTING SPOT ELEVATION ((60.50) / TC)
- ROAD SLOPE (1.00%)
- PROPOSED STREET LIGHT
- EXISTING STREET LIGHT
- 3:1 SLOPE UNLESS OTHERWISE NOTED ON PLAN (TOP SLOPE / TOE SLOPE)
- RETAINING WALL

ABBREVIATIONS

A	AIR
AC	ASPHALT CONCRETE, ACRE
ACP	ASBESTOS CEMENT PIPE
ADD'L	ADDITIONAL
AP	ANGLE POINT
APN	ASSESSOR'S PARCEL NUMBER
APPROX	APPROXIMATELY
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
AVAR	AIR VALVE, AIR RELEASE ASSEMBLY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BCR	BEGIN CURB RETURN
BLM	BUREAU OF LAND MANAGEMENT
BLVD	BOULEVARD
BM	BENCHMARK
BO	BLOW-OFF
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BACK OF SIDEWALK
℄	CENTERLINE
C&G	CURB AND GUTTER
CATV	UNDERGROUND CABLE TV
CCBM	CLARK COUNTY BENCH MARK
CCPW	CLARK COUNTY PUBLIC WORKS
CCTV	CLOSED-CIRCUIT TELEVISION
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CFS	CUBIC FEET PER SECOND
CIP	CAPITAL IMPROVEMENTS PROJECT, CORRUGATED IRON PIPE
CIPM	CURED-IN-PLACE MANHOLE
CIPP	CURED-IN-PLACE PIPE
CIR	CIRCLE
CLR	CLEAR OR CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CITY OF LAS VEGAS
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNLV	CITY OF NORTH LAS VEGAS
CO	CLEANOUT
CONC	CONCRETE
COND	CONDUIT
CONST	CONSTRUCT OR CONSTRUCTION
COORD	COORDINATE
COR	CORNER
CPEP	CORRUGATED POLYETHELYNE PIPE
CT	COURT
CY	CUBIC YARD(S)
Δ	DELTA
DBL	DOUBLE
DCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)
DEFL	DEFLECTION
DG	DESIGN GRADE
DI	DROP INLET
DIA, ⌀	DIAMETER
DIP	DUCTILE IRON PIPE
DIST	DISTANCE
DR	DRIVE
DS	DOWNSPOUT
DTL	DETAIL
DW	DRIVEWAY
DWG	DRAWING
E	EAST
ECR	END CURB RETURN
ELE,ELEC	ELECTRICAL
ELEV	ELEVATION
EP, EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EXIST,EX	EXISTING
EXP	EXPANSION JOINT
FC	FACE OF CURB
FF, FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTIC
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FINISH SURFACE
FT	FOOT/FEET
FTG	FOOTING
FUT	FUTURE
G	GAS
GA	GAGE, GUY ANCHOR
GB	GRADE BREAK
GND	GROUND
GRD	GRADE, GROUND
H, HGT	HEIGHT
HDWL	HEADWALL
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HP	HIGH POINT, HIGH PRESSURE
HPS	HIGH PRESSURE SODIUM
IBC	INTERNATIONAL BUILDING CODE
INV	INVERT
INT	INTERIM
JT	JOINT
L	LENGTH
L, LT	LEFT
LF	LINEAR FEET
LIP	LIP OF GUTTER
LN	LANE
LP	LIGHT POLE
LS,LSCP	LANDSCAPE
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MLCP	MORTAR LINED AND COATED PIPE
MOD	MODIFY/MODIFIED
MON	MONUMENT
MPH	MILES PER HOUR
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION)
N	NORTH
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NO	NUMBER
NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
NPC	NEVADA POWER COMPANY
NTS	NOT TO SCALE
OC	ON CENTER
OHC	OVERHEAD COX COMMUNICATION
OHP	OVERHEAD POWER LINE
P	POWER LINE
PB	PULL BOX
PBS	PLANTMIX BITUMINOUS SURFACE
PC	POINT OF CURVE, PRESSURE CLASS
PCC	POINT OF COMPOUND CURVE
PE	PROJECT ENGINEER OR POLYETHYLENE
PED	PEDESTRIAN
PGL	PROFILE GRADE LINE
PH	POTHOLE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PLCP	POLYURETHANE LINED AND COATED STEEL PIPE
PMF	PAVEMENT MARKING FILM
POB	POINT OF BEGINNING
POC	POINT ON CURVE
P.O.C.	POINT OF CONNECTION
POT	POINT ON TANGENT
PP	POWER POLE
PROP	PROPOSED
PRC	POINT OF REVERSE CURVE
PRVC	POINT OF REVERSE VERTICAL CURVE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PZ	PRESSURE ZONE
R, RAD	RADIAL, RADIUS
R, RT	RIGHT
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REC	RECTANGULAR
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
RIM	TOP OF RIM ELEVATION
RND	ROUND
ROW,R/W	RIGHT OF WAY
RP	RADIUS POINT
RPM	RAISED PAVEMENT MARKERS
RSGV	RESILIENT SEAT GATE VALVE
S	SEWER, SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SECT	SECTION
SF	SQUARE FOOT/FEET
SHLDR	SHOULDER
SHT	SHEET
SIS	SUMMERLIN IMPROVEMENT STANDARDS (LATEST EDITION)
SL	STREET LIGHT
SP	SERVICE POINT
SQ	SQUARE
SR	SEWER RECLAIM MAIN
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
ST	STREET
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE
SVZ	SIGHT VISIBILITY ZONE
SW	SIDEWALK
SWG	SOUTHWEST GAS
T	TELEPHONE OR TOP
TAN	TANGENT
TB	TOP OF BERM
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION ESMT
TEL,TELE	TELEPHONE
TEMP	TEMPORARY
TF	TOP OF FOOTING
TG	TOP OF GRATE
TMH	TOP OF MANHOLE
TOP	TOP OF PIPE
TP	TELEPHONE POLE
TRANS	TRANSITION
TRW	TOP OF RETAINING WALL
TS	TRAFFIC SIGNAL
TW	TOP OF WALL
TYP,(TYP)	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST EDITION)
UG	UNDERGROUND
ULT	ULTIMATE
USD, USDCCA	UNIFORM STD. DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA (LATEST EDITION)
UT	UNDERGROUND TELEPHONE
VAR	VARIABLE/VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VG	VALLEY GUTTER
VOL	VOLUME
W	WATER, WEST
W/	WITH
WS	WATER SUPPLY
WT	WEIGHT
WTR	WATER
XING	CROSSING
YD	YARD, YARD DRAIN

VICINITY MAP

NTS



INDEX OF SHEETS

NO.	DRAWING	DESCRIPTION
1	G1	COVER SHEET
2	G2	PROJECT DATA
3	G3	GENERAL NOTES
4	HC1	HORIZONTAL CONTROL
5	P1	UTILITY PLAN AND PROFILE
6	R1	ROADWAY PLAN AND PROFILE
7	R2	ROADWAY GRADING
8	RD1	ROADWAY DETAIL
9	S1	SIGNAGE AND STRIPING PLAN
10	E1	STREET LIGHT AND TRAFFIC PLAN
11	E2	MASTER CONDUIT AND STREET LIGHTING NOTES AND DETAILS
	SWG	SWG PLANS 1-4

QUANTITIES (PUBLIC)

ROADWAY	
3" AC PAVEMENT	6,655 SY
TYPE II AC PAVEMENT	2,220 CY
TYPE "L" CURB	1,505 LF
TYPE "L" ISLAND CURB	755 LF
TYPE "A" ISLAND CURB	805 LF
STORM DRAIN	
24" CLASS III RCP	130 LF
5' TYPE "CM2" DROP INLET	1 EA
12.5' TYPE "CM2" DROP INLET	2 EA
TYPE I STORM DRAIN MANHOLE	1 EA
IRRIGATION	
IRRIGATION SLEEVES	785 LF
STREET LIGHTING	
NO. 3-1/2 PULLBOX	3 EA
DOUBLE ARM STREET LIGHT	5 EA
CONDUIT	1060 LF

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.

PROFESSIONAL ENGINEER - STATE OF NEVADA - JOSHUA JOHNSON - CIVIL - No. 15789 3/27/14

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.

BENCHMARK

DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE	3304.45 (FEET)	1007.197 (METERS)
CLV BM No. 5LV09 34NE8		

LOCATION

LYING WITHIN SECTIONS 27+34 TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

SUMMERLIN STREET CLASSIFICATION

DESERT FOOTHILLS DRIVE:	NEIGHBORHOOD ARTERIAL WITH BIKE LANES
MOUNTAIN SHADOW ROAD:	NEIGHBORHOOD COLLECTOR (LEVEL 1)
ANTELOPE RIDGE DRIVE:	NEIGHBORHOOD COLLECTOR (LEVEL 1)
FOX HILL DRIVE:	NEIGHBORHOOD COLLECTOR (LEVEL 1)
ALTA DRIVE:	NEIGHBORHOOD ARTERIAL WITH BIKE LANES
FAR HILLS AVENUE:	NEIGHBORHOOD ARTERIAL WITH BIKE LANES

APPROVED FOR CONSTRUCTION

DISHARI, FOR DOA MEADE

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 121802 DATE: 7/30/13

H #50001

CLV #

107V5924-2

2872

PROFESSIONAL ENGINEER - STATE OF NEVADA - JOSHUA JOHNSON - CIVIL - No. 15789

DATE: 7/16/13

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP
1	2/27/14	ADD SWG PLANS — LVVWD 04/05/14	4-3-14	LVB	3/25/14	MTC

PROJECT NO. 62023B-209

DESIGN: DFK
DRAWN: DFK
CHECK: JLJ
PLOT DATE: 07-15-13
PLOT TIME: 13:18:10

G.C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1555 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM
LAS VEGAS · MESQUITE

LAS VEGAS

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Humberto Franco-Rivas

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 23B FOX HILL DRIVE PHASE 2
ANTELOPE RIDGE DRIVE TO FAR HILLS AVENUE

PROJECT DATA

DRAWING
G2
2 OF 11 SHTS