ABBREVIATIONS

AC	ASPHALTIC CONCRETE OR ACRE
AGG	AGGREGATE BASE
APN	ASSESSORS PARCEL NUMBER
APPROX OR ~	APPROXIMATE
AVE	AVENUE
@	AT
BC	BEGIN CURVE OR BACK OF CURB
BCR	BEGINNING OF CURB RETURN
BHW	BOTTOM OF HEADWALL
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BVC	BEGIN VERTICAL CURVE
BWV	BACK WATER VALVE
CC	CLARK COUNTY
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS
CCPW	CLARK COUNTY PUBLIC WORKS
CCRFCD	CLARK COUNTY REGIONAL FLOOD DISTRICT
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CE	COMMON ELEMENT
CL,C/L,C	CENTERLINE
CLR	CLEAR OR CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CML&C	CEMENT MORTAR LINED AND COATED
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CT	COURT
CY OR CU YD	CUBIC YARD
DCWCS	DESIGN AND CONSTRUCTION FOR WASTEWATER COLLECTION SYSTEMS
DET	DETAIL
DI	DUCTILE IRON OR DRAIN INLET
DIA, ø	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DWG(S)	DRAWING
DWY	DRIVEWAY
EA	EACH
ECR	END CURB RETURN
EG	EXISTING GROUND
EL	ELEVATION
ESMT	EASEMENT
EP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
EX OR EXIST	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISHED GRADE
FGH	FINISHED GRADE, HIGH SIDE
FGL	FINISHED GRADE, LOW SIDE
FH	FIRE HYDRANT
FL	FLOWLINE
FT	FEET OR FOOT
FUT	FUTURE
GRD	GRADE OR GROUND
GB	GRADE BREAK OR GRADE CHANGE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HOA	HOME OWNERS ASSOCIATION
HORZ	HORIZONTAL
HP	HIGH POINT
HWL	HIGH WATER LEVEL
HDWL OR HW	HEADWALL
HYD	HYDRAULIC OR HYDRANT
ID	INSIDE DIAMETER
IN	INCH
INT	INTERSECTION
INV	INVERT ELEVATION
IP	IRON PIPE
IRRG	IRRIGATION
LF	LINEAR FEET
LP	LOW POINT
LT OR L	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
LWL	LOW WATER LEVEL
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MUE	MUNICIPAL UTILITY EASEMENT
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NPC	NEVADA POWER COMPANY
NTS	NOT TO SCALE
NUE	NONEXCLUSIVE UTILITY EASEMENT
OC	ON CENTER
OD	OUTSIDE DIAMETER OR OVERALL DIMENSION
OFF	OFFSET
ORIG	ORIGINAL
PAE	PUBLIC OR PEDESTRIAN ACCESS EASEMENT
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PDE	PUBLIC DRAINAGE EASEMENT
ℙ OR PL	PROPERTY LINE
POB	POINT OF BEGINNING
POC	POINT OF CURVATURE
POE	POINT OF ENDING
PRC	POINT OF REVERSE CURVATURE
PRELIM	PRELIMINARY
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PUE	PUBLIC UTILITY EASEMENT
PT	POINT OF TANGENT OR POINT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
QTY	QUANTITY
R	RADIUS
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY ESMT	ROADWAY EASEMENT
REQD	REQUIRED
REV	REVISION
RG	ROUGH GRADE
RT OR R	RIGHT
R/W, ROW	RIGHT OF WAY
S	SLOPE
SCH	SCHEDULE
SD	STORM DRAIN
SDDI	STORM DRAIN DROP INLET
SDMH	STORM DRAIN MANHOLE
SEC	SECTION
SF	SQUARE FEET
SHT	SHEET
SNWA	SOUTHERN NEVADA WATER AUTHORITY
SPECS	SPECIFICATIONS
ST	STREET
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL OR STREET LIGHT
SW	SIDEWALK
SWG	SOUTHWEST GAS
SWR OR SS	SANITARY SEWER
SY	SQUARE YARD
TAN	TANGENT
TC	TOP OF CURB
TCD	TRAFFIC CONTROL DEVICE
TF	TOP OF FLOOR OR TOP OF FOOTING
TG	TOP OF GRATE
THRU	THROUGH
THW	TOP OF HEADWALL
TP	TOP OF PIPE
TW	TOP OF WALL
TRW	TOP OF RETAINING WALL
TSW	TOP OF SCREEN WALL
TYP	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
VC	VERTICAL CURVE
VERT	VERTICAL
VG	VALLEY GUTTER
WI	WROUGHT IRON
WL	WATER LINE
WPZ	WATER PRESSURE ZONE
WT	WEIGHT
WTR	WATER LINE

SPECIAL NOTE

IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED WHICH IS NOT SHOWN ON THESE DRAWINGS. THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CLARK COUNTY DEPT. OF PUBLIC WORKS. TEMPORARY CONSTRUCTION ITEMS INCLUDE: PAVEMENT TRANSITIONS, PROTECTIVE DITCHES AND BERMS, ROAD SIGNS AND BARRICADES, ETC.

NOTICE TO CONTRACTOR

-QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.

-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: (800) 227-2600

LEGEND

EXISTING	PROPOSED	DESCRIPTION
(1900)	1900	5' CONTOUR
		1' CONTOUR
		STRIPING
		SEWER MANHOLE
		CURB AND GUTTER
EX 8" PVC SS	8" PVC SS	SANITARY SEWER PIPE AND FLOW ARROW
EX 8" PVC WTR	8" PVC WTR	WATER PIPE
		WATER GATE VALVE
		FIRE HYDRANT
		WATER BLOW-OFF
		WATER LATERAL W/ METER
		SANITARY SEWER LATERAL
		STREETLIGHT
		EDGE OF PAVEMENT
		TRAFFIC SIGN
PAD= XXX.X FF = XXX.X	PAD= XXX.X FF = XXX.X	PAD ELEVATION FINISHED FLOOR ELEVATION
(00.00) TC	00.00 TC	ELEVATION
		RETAINING WALL
		STORM DRAIN W/ MANHOLE

EXISTING GAS GATE VALVE

EXISTING UNKNOWN MANHOLE

EXISTING GAS, SIZE PER PLAN

EXISTING POWER POLE

EXISTING TRAFFIC SIGNAL

EXISTING WALL

WATER PIPE FITTING

WATER POINT OF CONNECTION

SEWER POINT OF CONNECTION

DAYLIGHT LINE

STREET CENTERLINE

RIGHT-OF-WAY

MATCHLINE

BOUNDARY LINE

PHASE LINE

PROPERTY LINE

FLOWLINE

SAWCUT

CUT/FILL TRANSITION LINE

SIDEWALK

EX STRIPING TO BE OBLITERATED

GRADE BREAK LINE

REFLECTIVE RAISED PAVEMENT MARKERS

BACK WATER VALVE

WROUGHT IRON FENCE

PONY WALL

DECORATIVE PERIMETER WALL

DECORATIVE PERIMETER RETAINING WALL

PROPOSED CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB

EXISTING CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB

FUTURE CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB

PROPOSED SCARP AREA

DRIVEWAY

PROPOSED RIP RAP

SIGHT VISIBILITY ZONE PER STD DWG NO. 201.2

HANDICAP RAMP

QUANTITIES

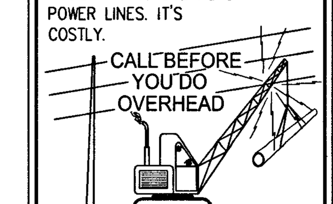
	QUANTITIES		PRIVATE	PUBLIC
	DRAINAGE			
1.	60" TYPE III STORM DRAIN MANHOLE	EA	-	3
2.	10.0' TYPE "CM2" DROP INLET	EA	-	4
3.	12.5' TYPE "CM2" DROP INLET	EA	-	1
4.	15.0' TYPE "CM2" DROP INLET	EA	-	2
5.	17.5' TYPE "CM2" DROP INLET	EA	-	2
6.	25.0' TYPE "CM2" DROP INLET	EA	-	-
7.	18" RCP CLASS III STORM DRAIN	LF	-	213
8.	24" RCP CLASS III STORM DRAIN	LF	-	692
9.	30" RCP CLASS III STORM DRAIN	LF	-	830
10.	36" RCP CLASS III STORM DRAIN	LF	-	400
11.	RIPRAP D50=8", THK=16"	SF	-	2447
12.	8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE I AGGREGATE BASE	SF	-	2833
13.	60" TYPE I STORM DRAIN MANHOLE	EA	-	9
13.	TYPE II STORM DRAIN MANHOLE	EA	-	6
	SEWER SYSTEM			
1.	4" PVC SEWER LATERAL (PRIVATE)	LF	1879	-
2.	8" PVC SEWER PIPE (PUBLIC)	LF	-	1402
3.	STANDARD 60" SEWER MANHOLE (PUBLIC)	EA	-	3
4.	STANDARD 48" SEWER MANHOLE (PUBLIC)	EA	-	22
5.	STANDARD 72" SEWER MANHOLE (PUBLIC)	EA	-	1
6.	8" SEWER PIPE CAP	EA	-	3
7.	BACK WATER VALVE	EA	23	-
8.	8" C-900 WATER QUALITY SEWER PIPE (PUBLIC)	LF	-	1517
	WATER SYSTEM			
1.	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40	EA	-	7
2.	6" PVC WATER PIPE (CLASS 150)	LF	-	1273
3.	8" PVC WATER PIPE (CLASS 150)	LF	-	3651
4.	8" DIP WATER PIPE (CLASS 350)	LF	-	130
5.	8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39	EA	-	13
6.	8" X 6" TEE PER UDACS PLATE NO. 31	EA	-	6
7.	12" X 8" REDUCER PER UDACS PLATE NO. 30	EA	-	2
8.	8" 5 DEGREE BEND WITH RESTRAINED JOINTS	EA	-	3
9.	8" 11.25 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	18
10.	8" 22.5 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	7
11.	8" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	4
12.	RESIDENTIAL PRV	EA	31	-
13.	8" CAP AND 2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE NO. 36	EA	-	5
14.	1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 1	EA	-	70
15.	1" COPPER SERVICE W/ 1" METER & 1" RPPA PER UDACS PLATE NO. 4 & 8	EA	-	1
16.	8" X 6" REDUCER PER UDACS PLATE NO. 30	EA	-	1
17.	8" X 8" TEE PER UDACS PLATE NO. 31	EA	-	5
18.	6" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	-	3
19.	6" CAP AND 2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE NO. 36	EA	-	1
20.	FLUSHING VALVE ASSEMBLY PER DETAIL ON SHEET MU-1	EA	3	-
	STREET IMPROVEMENTS			
1.	2" A.C. PAVEMENT W/ 4" TYPE II OVER 6" TYPE I AGGREGATE BASE	SY	14,231	-
2.	STANDARD 18" TYPE "L" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	878	-
3.	STANDARD 8" TYPE "A" ISLAND CURB W/6" TYPE I AGGREGATE BASE	LF	874	-
4.	STANDARD 30" MODIFIED "ROLL" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	6097	-
5.	4' WIDE CONCRETE SIDEWALK W/4" TYPE II AGGREGATE BASE	SF	12,705	-
6.				-
	TRAFFIC SIGNALS			
1.	30" STOP SIGN WITH POST (R1-1)	EA	4	-
2.	9" STREET NAME SIGN (D-3, BROWN W/ WHITE LETTERS)(6 POLES x 2 PER POLE=12)	EA	8	-
3.	BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER	EA	7	-
4.	TYPE A NO PARKING FIRE LANE SIGN	EA	4	-
5.				
6.				
7.				
8.				
	DRY UTILITIES			
1.	100W H.P.S. LUMINAIRE STREET LIGHT W/DECORATIVE POLE	EA	25	-
2.	1-1/4" PVC STREET LIGHT CONDUIT WITH (2) #4 AND (1) #8 CONDUCTORS	LF	3805	-
3.	NO. 3-1/2 PULL BOX W/METAL COVER	EA	5	-
4.	STUB AND CAP WITH P30 PULLBOX W/"FIBER OPTIC" INSCRIBED ON LID	EA	4	-
5.	200 AMP SERVICE PEDESTAL (STLT)	EA	1	-
6.				

APPROVED FOR CONSTRUCTION

[signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 126049 FIRST APPROVED DATE: 7-31-18
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.



1-702-227-2929

FAST
Call before you
UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T)

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
OR
1-800-227-2600

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NEVADA

GREYSTONE NEVADA, LLC

SUMMERLIN VILLAGE 24 PARCEL D PHASE 1

GENERAL NOTES AND QUANTITIES

S 33
T 20S
R 59

DATE: 7/13/18

DRAFTER: DNP

DESIGNER: BCC

CHECKED: BCC

PROJECT NO.
CAL1701-000

PROFESSIONAL ENGINEER - STATE OF NEVADA
JERRY SLATER
Exp. 06/30/2020
CIVIL
No. 14167
7-13-18

C-3
SHEET 3 OF 41

L18-00808
107Y5083-1

PROJ #126049 AGR #116715 QS 137-33-SE

j:\cal1701-000 summ village 24 parcel d\dwg\improv\cal1701-000 cvr.dwg 7/13/2018 11:34 AM Dominic Panaligan