

CITY OF LAS VEGAS GRADING NOTES

- ## GENERAL NOTES FOR HYDRANTS AND ACCESS
1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6821 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
 2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
 3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [C § 105.6.18]
 4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE ANY CONSTRUCTION OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [C § 331, § 331.3]
 5. TO IDENTIFY FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [C § 507.5.7.3]
 6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LINE IS ACCESSIBLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [C § 108]
 7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED AND HYDRANTS RATED FOR THE APPROPRIATE WORKING PRESSURE. [C § 507.2.1, NFPA 24]
 8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [C § 507]
 9. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED. [C § 507.5.7.1]
 10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [C § 507]
 11. FIRE HYDRANTS SPACING SHALL BE AS FOLLOWS: [C SECTION C102]
RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED
COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
 12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1,000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE SPACED WITH MEDIAN DIVIDER OR HAYWARD (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. [C § C102.8 & CLV REGULATION]
 13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
 14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [C § C102.10]
 15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [C § C102.4]
 16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [C § C102.7]
 17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [C § C102.6]
 18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A

SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO

- MORE THAN 3" FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OF SERVICE DUE TO A SERVICE INTERRUPTION. [FC § C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE PAVED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [FC § 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% GRADE. PRIOR TO OR AFTER THE GRADE CHANGE, ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [FC § 503.2.7, § 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [FC § 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 IN. [FC § 503.2.1]
23. DIMENSIONS FOR ACCESS ROADS SERVING R-3 OCCUPANCIES, FIRE APPARATUS ACCESS ROADS SERVING R-3 OCCUPANCIES, AS DEFINED BY THE INTERNATIONAL BUILDING CODE SECTION 310, PROVIDING RESIDENTIAL FIRE SPRINKLER SYSTEMS, IN ACCORDANCE WITH CITY OF LAS VEGAS ORDINANCE 6609 AND CITY OF LAS VEGAS ORDINANCE 6609, AND CITY OF LAS VEGAS ORDINANCE 6609, WITH SOUTHERN NEVADA HOME BUILDERS FOR SINGLE FAMILY DETACHED TRACT HOME DEVELOPMENTS, THE UNOBSTRUCTED WIDTH OF FIRE APPARATUS ACCESS ROADS SHE BE AS FOLLOWS:
- NOT LESS THAN 33' (10.05M) WIDE, MEASURED FROM FACE OF CURB OR FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ON BOTH SIDES OF FIRE APPARATUS ROAD.
 - NOT LESS THAN 28 FT (8.4M) WIDE, MEASURED FROM FACE OF CURB OR FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ON ONLY ONE SIDE OF THE FIRE APPARATUS ROAD.
 - NOT LESS THAN 24 FT (7.2M) WIDE, MEASURED FROM FACE OF CURB OR FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ON ONLY ONE SIDE OF THE FIRE APPARATUS ROAD.

- FOR ALL OTHER OCCUPANCY TYPES AS DEFINED BY THE INTERNATIONAL BUILDING CODE SECTION 310, THE UNOBSTRUCTED WIDTH OF FIRE ACCESS ROADS SHALL BE AS FOLLOWS:

- FIRE APPARATUS ROAD.
NOT LESS THAN 32 FT (9.75M) WIDE, MEASURED FROM FACE OF CURB OR FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ON ONLY ONE SIDE OF THE FIRE APPARATUS ROAD.
NOT LESS THAN 24 FT (7.2M) WIDE, MEASURED FROM FACE OF CURB OR FLOW LINE TO FLOW LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE.
• NOT LESS THAN 24 FT (7.2M) WIDE, DESIGNATED FIRE APPARATUS ACCESS ROADS THROUGH PARKING LOTS.
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. [FC § 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. [CLV REGULATION AND MOU]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND. [CLV REGULATION]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED FIRE LANE SIGNS AT THE START OF THE FIRE LANE. ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS

CITY OF LAS VEGAS GRADING NOTES

- CITY OF LAS VEGAS SEWER NOTES

- REVISÉ 09/16/20

LAS VEGAS VALLEY WATER DISTRICT

(REVISED 10/18/2021)

- #### ADDITIONAL WATER NOTES

1. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UH-60C PLATE 15

- ### CONDITIONAL APPROVAL OF VALVED OUTLET

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE. HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH LVVWD STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

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.

DIP PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE TWO AND ONE-HALF (2.5) DEGREES PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 415 FEET, PER UDACS 2.07.03.

• NONE

- ## CITY OF LAS VEGAS TRAFFIC NOTES

- REVISÉ JUNE 4, 2018

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE

- REVISÉ MAY 19, 2020



1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000



NEVADA HEALTH AND BIOSCIENCE CORP
SOUTHERN NEVADA PUBLIC ACADEMIC HEALTH LAB

DRAWING
C1.01

2 OF 16 SH

GENERAL NOTES

AASHTO	AIR	DE	DRAINAGE EASEMENT	N.I.C.	NOT IN CONTRACT	SD	STORM DRAIN
	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DEFL	DEFLECTION	No.	NUMBER	SDMH	STORM DRAIN MANHOLE
	ASPHALT CONCRETE, ACRE	DG	DESIGN GRADE	NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMIN.	SDWK, SW	SIDEWALK
AC	ASBESTOS CEMENT PIPE	DI/D.I.	DROP INLET	NPC	NEVADA POWER COMPANY	SECT	SECTION
ACP	ADD'L	DIA, Ø	DIAMETER	NPS	NOT TO SCALE	SF	SQUARE FOOT/FEET
	ADDITIONAL	DIP	DUCTILE IRON PIPE	NVE	NV ENERGY	SHLDR	SHOULDER
AG	AGGREGATE BASE	DIST	DISTANCE	ON	OVERBUILT	SHT	SHEET
APN	ANGLE POINT	DR	DRIVE	OC	ON CENTER	SIS	SUMMERLIN IMPROVEMENT STDs.
APPROX	APPROXIMATELY	DS	DOWNSPOUT	OH	OVERHEAD COX COMMUNICATION	SL	STREET LIGHT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DTL	DRIVEWAY	OHP	OVERHEAD POWER LINE	SP	SERVICE POINT
	AVENUE	DRW	DRAWING	P, PWR	POWER LINE	SQ	SQUARE
AVE	AIR VALVE, AIR RELEASE	E	EAST	P	PEDESTRAIN ACCESS EASEMENT	SR	SEWER RECLAIM MAIN
AVAR	ASSEMBLY	END CURB	END CURB RETURN	PUE	PROJECT ENGINEER or POLYETHYLENE	SS, SSWR	SANITARY SEWER
	AMERICAN WATER WORKS ASSOCIATION	EG	EXISTING GROUND	PBS	PLANT MIX BITUMINOUS SURFACE	STA	SANITARY SEWER MANHOLE
BC	BEGIN CURB	ELEC, ELE	ELECTRICAL	PC	POINT OF CURVE, PRESSURE CLASS	STD	STATION
BLM	BEGIN CURB RETURN	ELEV	ELEVATION	PCC	POINT OF COMPOUND CURVE or PORTLAND CEMENT CONCRETE	ST	STREET
BLVD	BUREAU OF LAND MANAGEMENT	EP, EOP	EDGE OF PAVEMENT	PDE	PROJECT ENGINEER or POLYETHYLENE	STD	STANDARD
BM	BENCHMARK	ESMT	EASEMENT	PE	PROJECT ENGINEER or POLYETHYLENE	STL	STEEL
BO	BLOW-OFF	EVC	END VERTICAL CURVE	PE	PROJECT ENGINEER or POLYETHYLENE	STR	STRUCTURE
BVCE	BEGIN VERTICAL CURVE	EVP	END VERTICAL POINT	PE	PROJECT ENGINEER or POLYETHYLENE	SVZ	SIGHT VISIBILITY ZONE
	ELEVATION	EVX, EXIST	EXISTING	PED	PEDESTRAIN	SWG	SOUTHWEST GAS
BVCS	BEGIN VERTICAL CURVE STATION	EXPAN	EXPANSION JOINT	POL	PROTECT GRADE LINE	T	TELEPHONE or TOP
BVP	BEGIN VERTICAL POINT	FC	FACE OF CURB	PH	POT HOLE	TAN	TANGENT
BW	BACK OF SIDEWALK	FF, FFE	FINISH FLOOR ELEVATION	PI	POINT OF INTERSECTION	TB	TOP OF BERM
C, CL	CENTERLINE	FG	FINISH GRADE	PV	POSS INDICATOR VALVE	TBW	TOP OF BLOCK WALL
C&G	CURB & GUTTER	FH	FIRE HYDRANT	P, P/L	PROPERTY LINE	TCE	TOP OF CURB
CATV	UNDERGROUND CABLE TV	FL	FLOW	PLCP	POLYETHYLENE LINED AND COATED	TEL	TELEPHONE
CCAUSD	UNIFORM STD. DRAWINGS FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY, NEVADA (LATEST ED.)	FO	FIBER OPTIC	PLT	PLATE	TEMP	TEMPORARY
	CLARK COUNTY BENCH MARK	FRP	FIBERGLASS REINFORCED PLASTIC	PLT	PLATE	TF	TOP OF FOOTING
CCPW	CLARK COUNTY PUBLIC WORKS	FT	FOOT/FEET	PMF	PAVEMENT MARKING FILM	TH	TOP OF GRATE
CCWRD	CORRECT-CIRCUIT TELEVISION	FTG	FOOTING	PMB	POINT OF BEGINNING	TGH	TOP OF MANHOLE
	CLARK COUNTY WATER RECLAMATION DISTRICT	FUT	FUTURE	POC	POINT ON CURVE, POINT OF CONN.	TO	TOP OF PIPE
CE	COMMON ELEMENT	G	GAS	POT	POINT ON TANGENT	TP	TELEPHONE POLE
CIP	CAPITAL IMPROVEMENTS PROJECT, CORRUGATED IRON PIPE CIRCLE	GA	GAGE, GUY ANCHOR	PP	POWER POLE	TRANS	TRANSITION
CIR	CLEAR or CLEARANCE	GB	GRADE BREAK	PRC	POINT OF REVERSE CURVE	TRN, TW	TOP OF RETAINING WALL
CLRM	CONTROLLED LOW STRENGTH MATERIAL	GRD	GRADE, GROUND	PRVC	POINT OF REVERSE VERTICAL CURVE	TS	TEST STATION
	CITY OF LAS VEGAS	GRD	GRADE, GROUND	PROP	PROPOSED	TSW	TOP OF SCREEN WALL
CNVL	CITY OF NORTH LAS VEGAS	H, HGT	HEIGHT	PSI	POUNDS PER SQUARE INCH	TS&V	TAPPING SLEEVE & VALVE
CO	CLEANOUT	HDWL	HEADWALL	PT	POINT OF TANGENCY	TV	TAPPING VALVE
CONC	CONCRETE	HGL	HYDRAULIC GRADE LINE	PUB	PUBLIC UTILITY	TWF	TOP OF WROUGHT IRON FENCE
COND	CONDUIT	HORIZ	HORIZONTAL	PUE	PUBLIC UTILITY EASEMENT	TYP	TYPICAL
CONST	CONSTRUCT or CONSTRUCTION	HP	HIGH POINT, HIGH PRESSURE	PVC	POLYVINYL CHLORIDE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST ED.)
COORD	COORDINATE	HPS	HIGH PRESSURE SODIUM	PVDE	PRIVATE DRAINAGE EASEMENT	UG	UNDERGROUND
COR	CORNER	INT	INTERNATIONAL BUILDING CODE	PVI	POINT OF VERTICAL INTERSECTION	ULT	ULTIMATE
CPEP	CORRUGATED POLYETHYLENE PIPE	INT	INTERM	PVMT	PRIVATE DRAINAGE EASEMENT	USD	UNIFORM STD. DRAWINGS FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY, NEVADA (LATEST ED.)
CPR	COURT	JOINT	JOINT	PZ	PRESSURE ZONE	UT	UNDERGROUND TELEPHONE
CT	CUL-DE-SAC	L	LENGTH	R, RAD	RADIAL, RADIAL	V	VAR or VLV
CDS	CUBIC YARD(S)	LT	LEFT	RCB	REINFORCED CONCRETE BOX	V	VARIABLE/VARIES
CY	DELTA	LF	LINEAR FEET	RCP	REINFORCED CONCRETE PIPE	VC	VERTICAL CURVE
DBL	DOUBLE	LIP	LIP OF GUTTER	R	ROAD	VCP	VERTICAL CLAY PIPE
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST ED.)	LN	LANE	RDWY	ROADWAY	VERT	VERTICAL
		LP	LOW POINT, LIGHT POLE	REF	RECTANGULAR	VOL	VOLUME
		LSPC	LANDSCAPE	REF	REFERENCE	W	WATER or WAST
		LVWD	LAS VEGAS VALLEY WATER DISTRICT	REIN	REINFORCED	WNH	WATER MANHOLE
		MAX	MAXIMUM	REQD	REQUIRED	WS	WATER SUPPLY
		MH	MANHOLE	RG	ROUGH GRADE	WT	WEIGHT
		MIN	MINIMUM	RM	TOP OF RIM ELEVATION	WTR	WATER
		MLTMC	MORTAR LINED TAPE & MORTAR	RND	ROUND	XTR	CROSSING
		MOD	MODIFY/MODIFIED	R/W, ROW	RIGHT OF WAY	Y	YARD, YARD DRAIN

	TYPICAL EXISTING LINEWORK		DETAIL BUBBLE W/ REF.
	TYPICAL FUTURE LINEWORK		IRRIGATION CONTROL VALVE
	TYPICAL PROPOSED LINEWORK		GATE VALVE
	TYPICAL SIDEWALK AND RAMP W/ CURB & GUTTER		PRESSURE REDUCING VALVE
	CENTERLINE		BACK WATER VALVE
	CONTOUR (MAJOR)		DROP INLET
	CONTOUR (MINOR)		FIRE HYDRANT
	DAYLIGHT GRADING		WATER METER
	EASEMENT LINE		WATER RPPA
	EX. EDGE OF PAVEMENT		WATER RPPA
	EDGE OF PAVEMENT		TRAFFIC SIGNAL PULL BOX
	ENCASEMENT (CONC OR STL)		STREET LIGHT CLARK COUNTY
	FENCE (CHAIN LINK)		STREET LIGHT SUMMERLIN STD
	FENCE (WROUGHT IRON)		TRAFFIC SIGNAL/FLASHER
	FENCE (POST & CABLE)		EXISTING TELE POLE
	FLOWLINE		EXISTING POWER POLE
	GRADE BREAK		EXISTING POLE
	HYDRAULIC GRADE LINE		EX. ELEC MARKER
	IRRIGATION SLEEVE		TRANSFORMER PAD
	LOTLINE		SERVICE PEDESTAL
	PEDESTRIAN ACCESS		PULLBOX
	PROPERTY LINE/BOUNDARY		PROPOSED CONTOUR
	RETAINING WALL		EXISTING CONTOUR
	RIGHT-OF-WAY LINE		PROPOSED SPOT ELEVATION
	RIPRAP AREA		EXISTING SPOT ELEVATION
	SAWCUT		PROPOSED SLOPE
	SCARPLINE		TOE SLOPE
	SCREEN OR GROUTED WALL		SLOPE DIRECTION
	SEWER LINE W/ MANHOLE		TOE SLOPE
	SIGHT VISIBILITY ZONE		FINISH FLOOR ELEVATION
	STORM LINE W/ MANHOLE		
	SWALE FLOWLINE		
	WATER LINE W/ GATE VALVE		
	EX. CABLE TV		
	EX. ELECTRICAL		
	EX. GAS LINE		
	EX. OVERHEAD POWER LINES		
	EX. TELEPHONE		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
TYPE II GRAVEL	CY	22	862
4-INCH ASPHALTIC CONCRETE PAVING	SY	128	1320
5-INCH ASPHALTIC CONCRETE PAVING	SY		2316
"A" CURB "L" CURB & GUTTER ROLL CURB	LF	74	1491
SIDEWALK RAMP	EA	2	1
COMMERCIAL DRIVEWAY	SF	1	
CONCRETE CROSS GUTTER	SF		453
4-INCH CONCRETE SIDEWALK	SF	320	7516
SIDEWALK UNDERDRAIN	EA		2
SURVEY MONUMENTS: TYPE II	EA	1	

DESCRIPTION	UNIT	PUBLIC	PRIVATE
STREETLIGHT (STANDARD BASE)	EA		
STREETLIGHT, DOUBLE ARM (STANDARD BASE)	EA		
TRAFFIC SIGNAL POLE AND LUMINAIRE	EA		
PULLBOX, #3	EA		
STREETLIGHT CONDUIT, 1.25-INCH	LF		
SL 200 AMP SERVICE	EA		
STREET SIGNS	EA		
8-INCH WIDE WHITE PAINTED LINE	LF		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
24-INCH STORM PIPE (RCP)	LF		193
24-INCH OPENING HEAD WALL	EA		1
60-INCH SD MANHOLE (<6')	EA		2
RIPRAP (D50 = 12")	CY		12

DESCRIPTION	UNIT	PUBLIC	PRIVATE
3/4-INCH WATER MAIN	LF	27	
1-INCH WATER MAIN	LF	54	171
6-INCH WATER MAIN	LF		9
8-INCH WATER MAIN	LF		468
FIRE HYDRANT	EA		1
WATER SERVICE W/ METER	EA	3	

DESCRIPTION	UNIT	PUBLIC	PRIVATE
6-INCH SEWER	LF	31	49
SEWER MANHOLE (<6')	EA	1	
SEWER SERVICE	EA	1	



CHECK: GCW
LOT DATE: 01-30-25

\\PROJECTS\9001\810-Q03\DWG\PRODUCTION\810-Q03_CV.DWG

PROJECT DATA

1

CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING
(INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE
GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

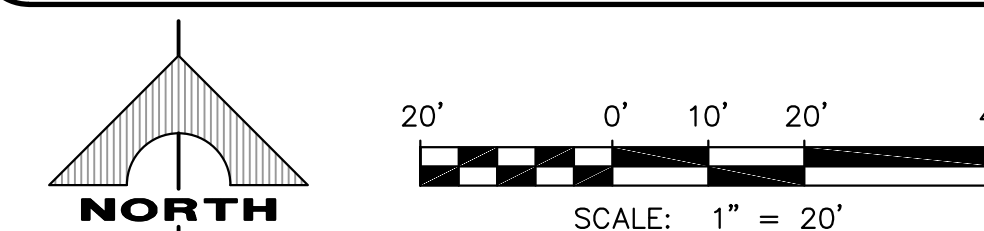
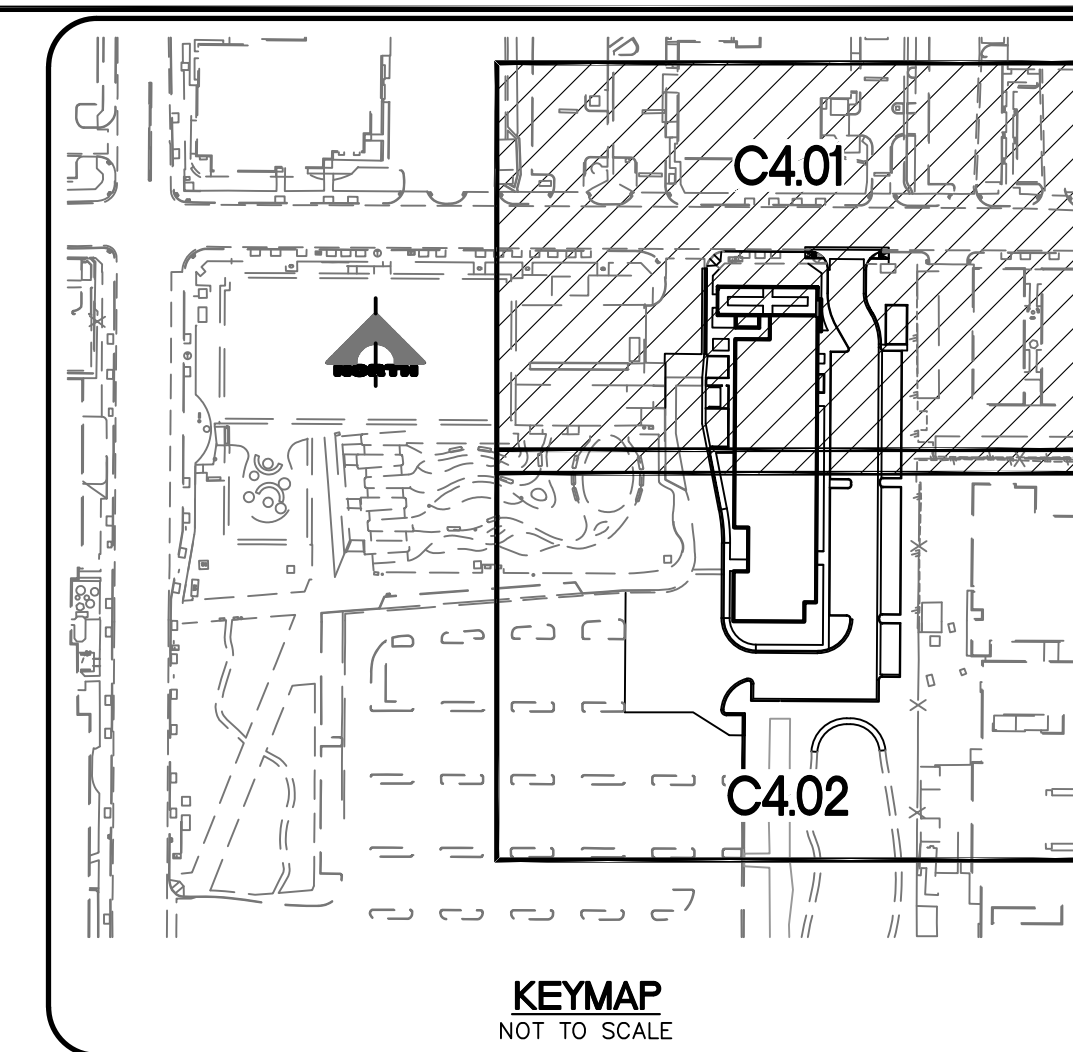
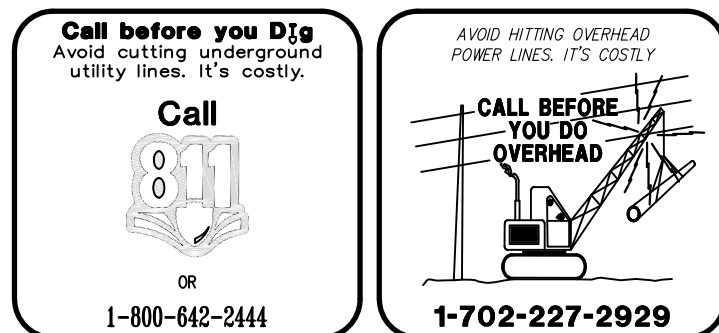
1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.
 - a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7855 14 DAYS PRIOR TO CONSTRUCTION
4. FOR ADJUSTMENT OF CATHODIC PROTECTION TEST POINTS CONTACT 702-528-7873 14 DAYS PRIOR TO CONSTRUCTION.
5. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099
6. FOR STANDBY WHEN EXCAVATING (INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE GAS LINES CONTACT 702-278-8451 48 HOURS PRIOR TO CONSTRUCTION.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. XXXXXX FIRST APPROVAL DATE:

LVVWD APPROVED FIRE FLOW: TOTAL X,XXX GPM / ON-SITE XXXX GPM

L#: XX-XXXXX	CLV#: 107YXXXX-X
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1	SAWCUT & REMOVE, NEW IMPROVEMENTS TO MATCH EXISTING CURB, SIDEWALK, AND AC. INSTALL AC TO SMOOTH EDGE AND FEATHER IN TO MATCH EXISTING A GRADE. PAVEMENT RESTORATION PER USDOCCA DWG. NO. 500.1, AND 500.2.
2	EXISTING CURB, GUTTER, SIDEWALK, TO REMAIN,
3	CONSTRUCT "L" CURB PER USDOCCA NO. 216.
4	CONSTRUCT MODIFIED "A" TYPE CURB PER DETAIL 1 ON SHEET C6.02
5	CONSTRUCT CONCRETE SIDEWALK PER USDOCCA NO. 234.
6	CONSTRUCT PAVEMENT PER: DETAIL 5 SHEET C6.02
7	CONSTRUCT 8' WIDE CROSS GUTTER PER USDOCCA NO. 228.
8	CONSTRUCT MODIFIED HANDICAP RAMP PER USDOCCA NO. 235 CASE II "A" & "B" DIMENSION = 0.
9	TRASH ENCLOSURE SEE ARCHITECTURAL PLANS FOR DETAILS
10	CONSTRUCT 3' VALLEY GUTTER PER DETAIL 2 ON SHEET C6.02
11	INSTALL 0" CURB FACE WITH 5' CURB TRANSITION PER DETAIL 3 SHEET C6.02
12	INSTALL 2' WIDE "L" CURB OPENING, WITH 6" TRANSITION PER DETAIL 3 SHEET C6.02
13	INSTALL 3'x4' CONCRETE SPLASH PAD. SLAB ON GRADE.
14	INSTALL UNDER SIDEWALK, CURB OPENING, ROOF DRAINAGE SYSTEM, (CURB-O-LET), SEE DETAIL 6 SHEET C6.02.
15	LANDSCAPE PLANTER, SEE LANDSCAPE PLANS FOR DETAILS.
16	INSTALL BMP LANDSCAPE DRAINAGE SWALE PER DETAIL 7 ON SHEET C6.02
17	INSTALL SIDEWALK RAMP, SEE GRADING PLAN FOR SLOPE AND LENGTH.
18	INSTALL 48" TYPE II-SD STORM DRAIN MANHOLE PER USDOCCA NO. 405.2
19	INSTALL 16"(W) X 8"(H) WALL OPENING. SEE DETAIL 4 ON SHEET C6.02
20	EXISTING NVE VAULT TO REMAIN, REPLACE VAULT WITH TRAFFIC RATED LID PER NVE REQUIREMENTS.

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND NO REPRESENTATION IS
MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. IT SHALL BE THE
CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND POTHOLE EXISTING UTILITIES
PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY
FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVE DRAINAGE STUDY _____ ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, AND STREETLIGHT POLE MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPE MEDIANS.

PORTION OF THE NORTHEAST QUARTER (NE ¼) OF THE SOUTHWEST QUARTER (SW ¼)
OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS
CLARK COUNTY, NEVADA

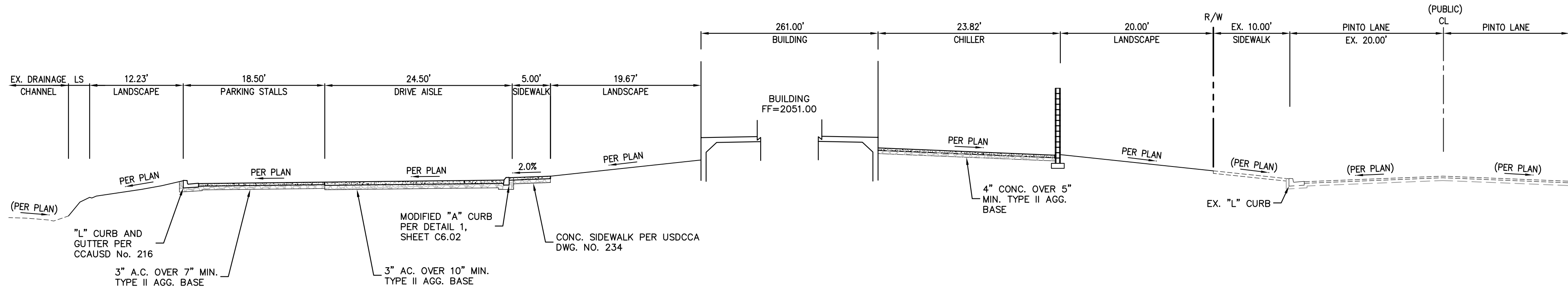
SOUTH 00°23'44" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN IN FILE 120, PAGE 81 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY RECORDER'S OFFICE.

CITY OF LAS VEGAS VERTICAL CONTROL POINT "7LV0133W6", FOUND RIVET AND ROUND ALUMINUM DISK, IN TOP OF CURB, NORTHWEST CORNER OF SHADOW LANE AND ALTA DRIVE.

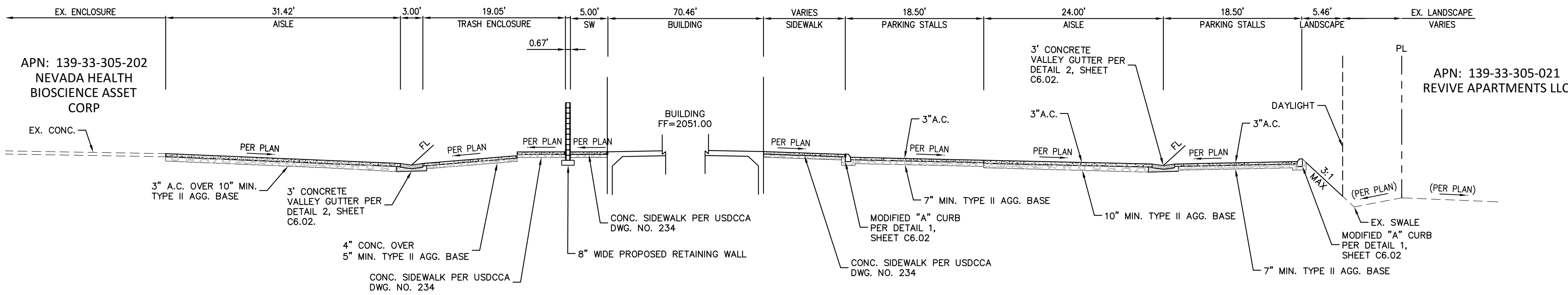
EARTHWORK			
RAW CUT	=	313	C.Y
RAW FILL	=	2965	C.Y
IMPORT	=	2652	C.Y

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION
2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION

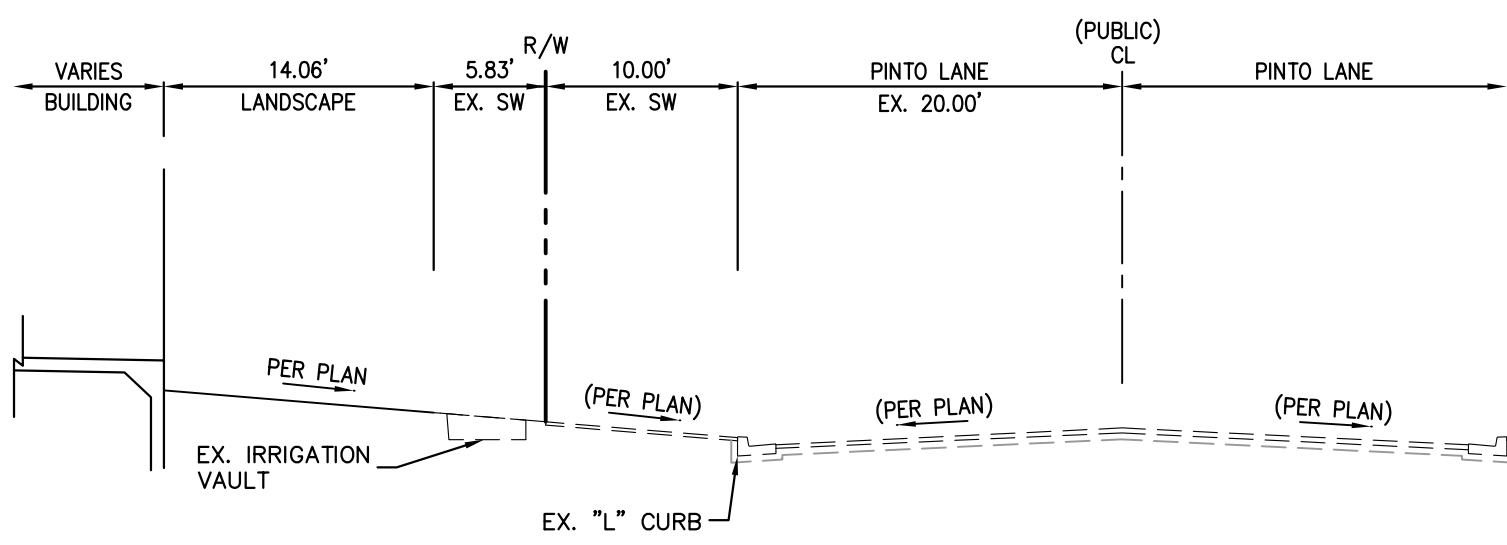
THE PROJECT SITE IS LOCATED ON COMMUNITY PANEL NUMBER 32003C2170F EFFECTIVE NOVEMBER 16, 2011. THE PROJECT SITE LIES WITHIN A FEMA DESIGNATED ZONE X. AREAS DESIGNATED AS ZONE X ARE DESCRIBED AS AREAS OUTSIDE THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN. THEREFORE, THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA.



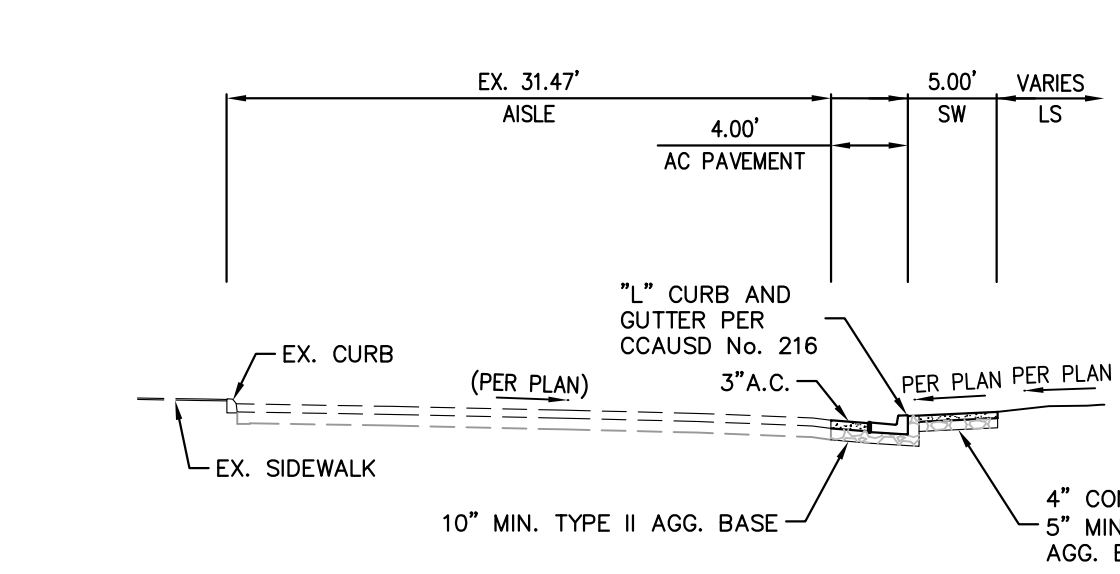
SECTION - EAST TO WEST
SHEETS: C4.01, C4.02



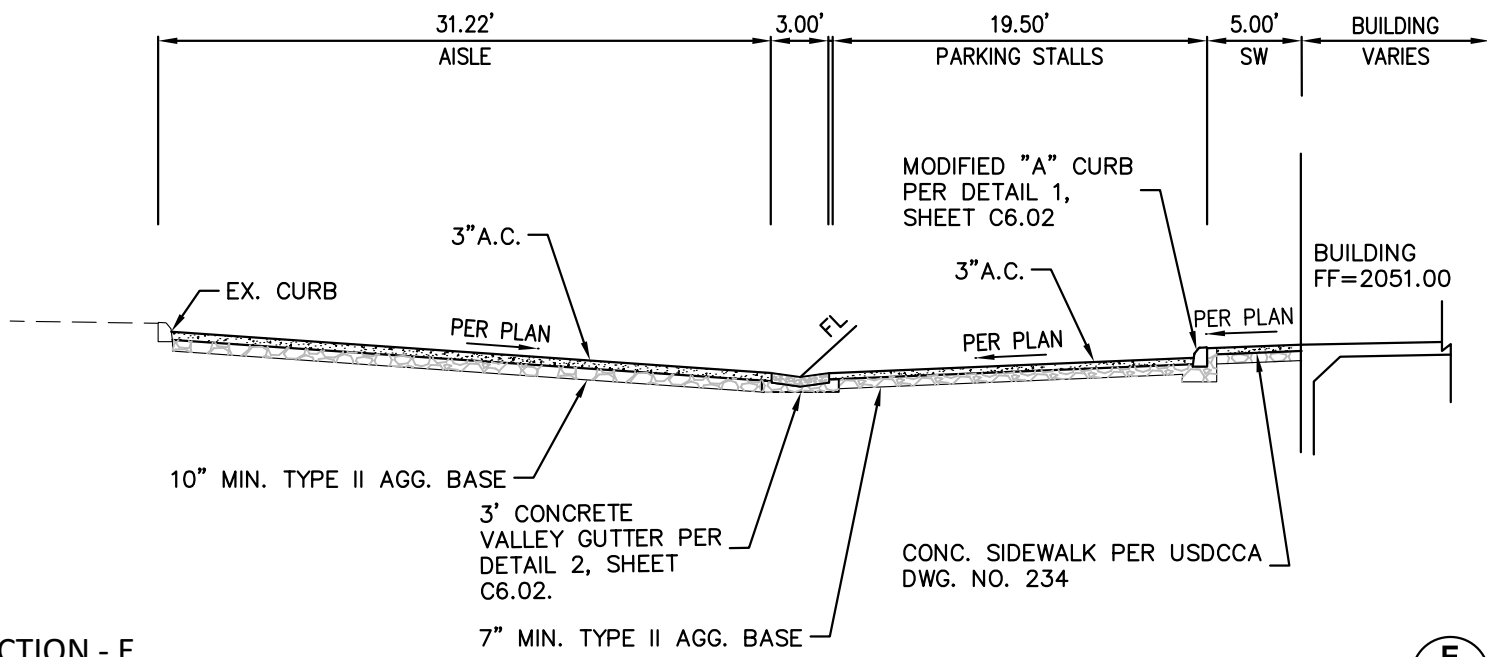
SECTION - NORTH TO SOUTH
SHEETS: C4.01



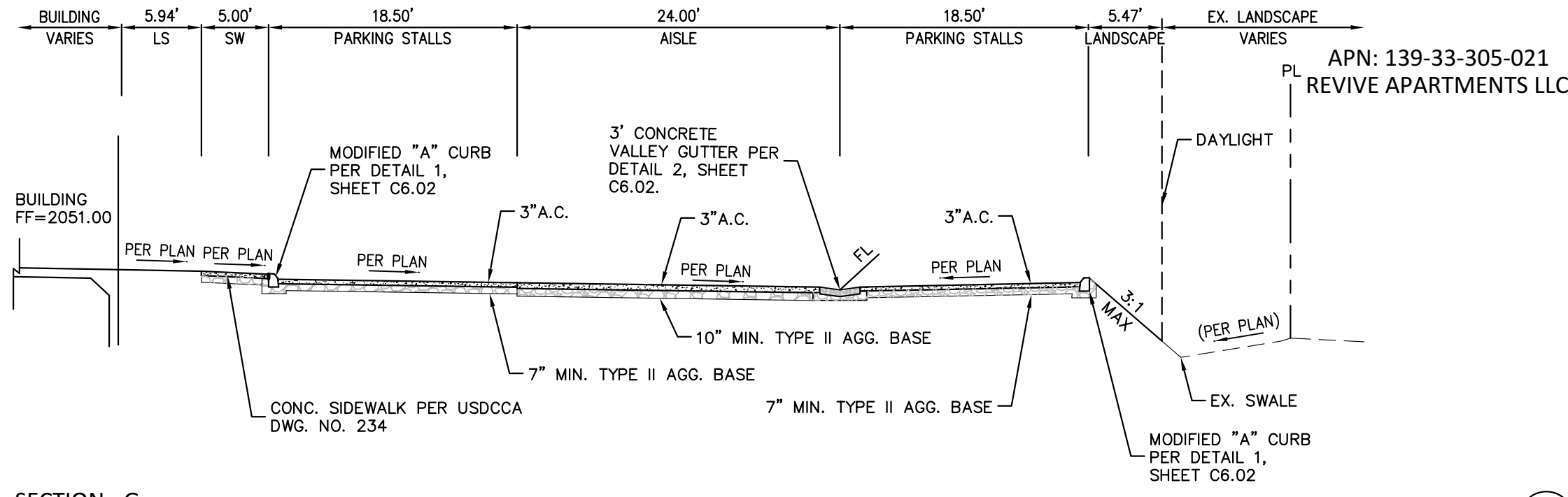
SECTION - C
SHEETS: C4.01



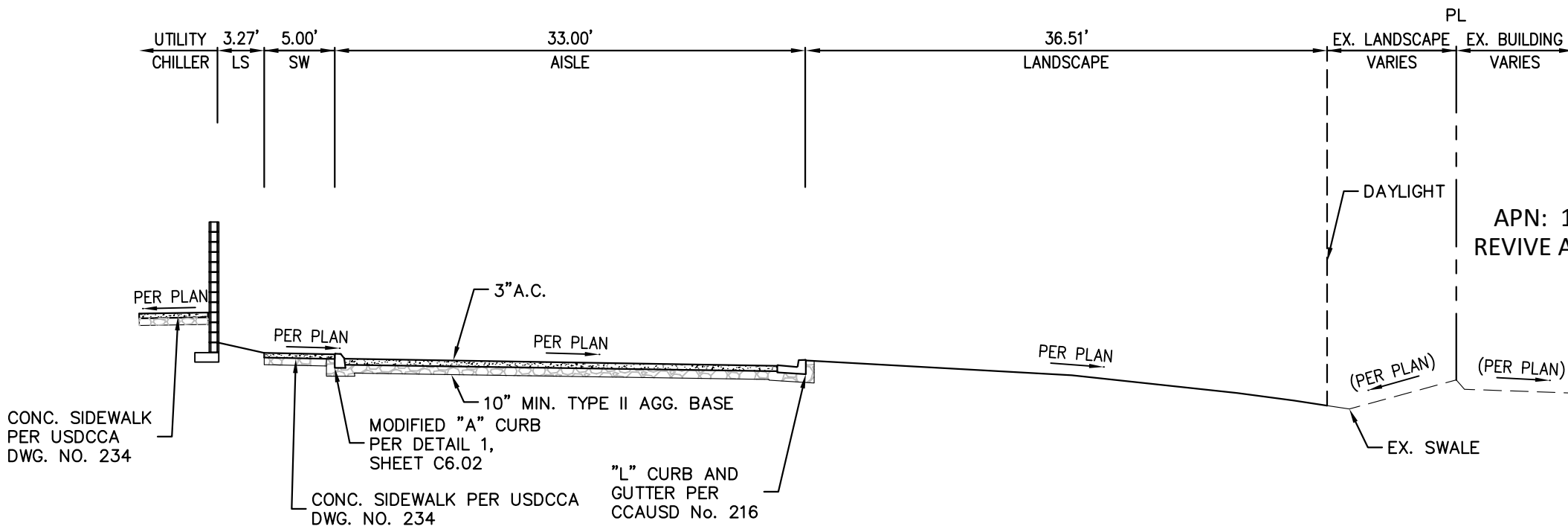
SECTION - D
SHEETS: C4.01



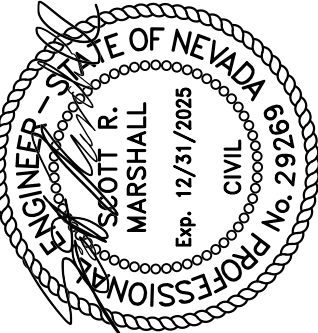
SECTION - E
SHEETS: C4.01



SECTION - G
SHEETS: C4.01



SECTION - H
SHEETS: C4.01



DATE	AGEN	API	DATE	GCW	API	DATE

DESCRIPTION	DATE	REV

PROJECT NO.	810-003
DESIGN:	GCW
DRAWING:	GCW
CHECK:	GCW
PLOT DATE:	01-30-25
PLOT TIME:	13:00:56

GCV
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SOUTHERN NEVADA PUBLIC ACADEMIC HEALTH LAB
SECTIONS 1

