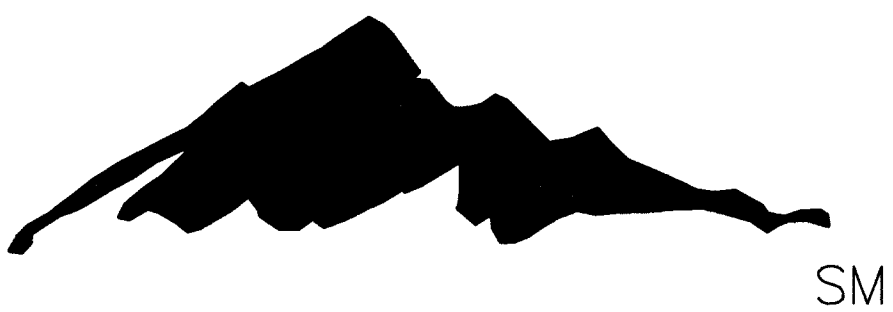
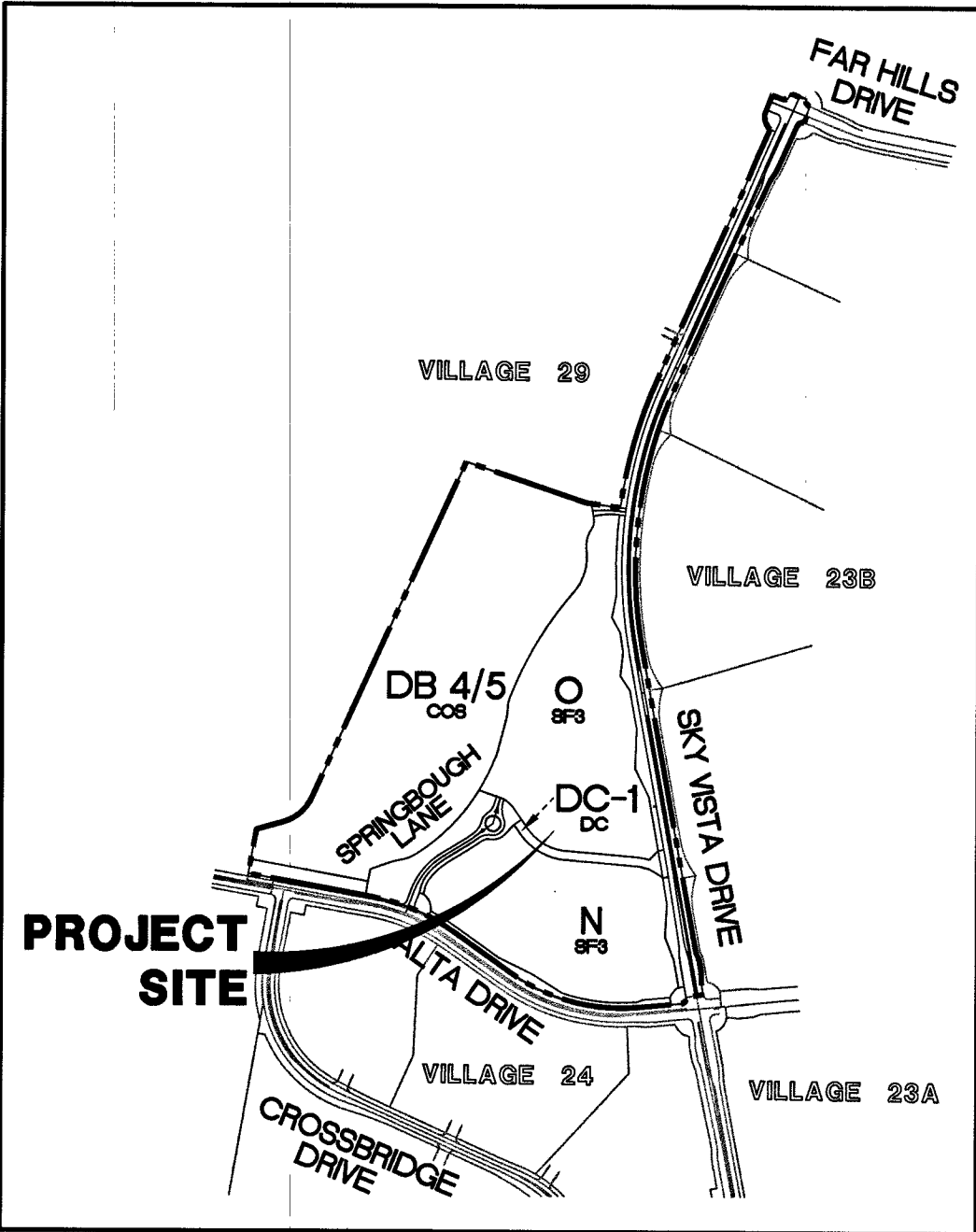
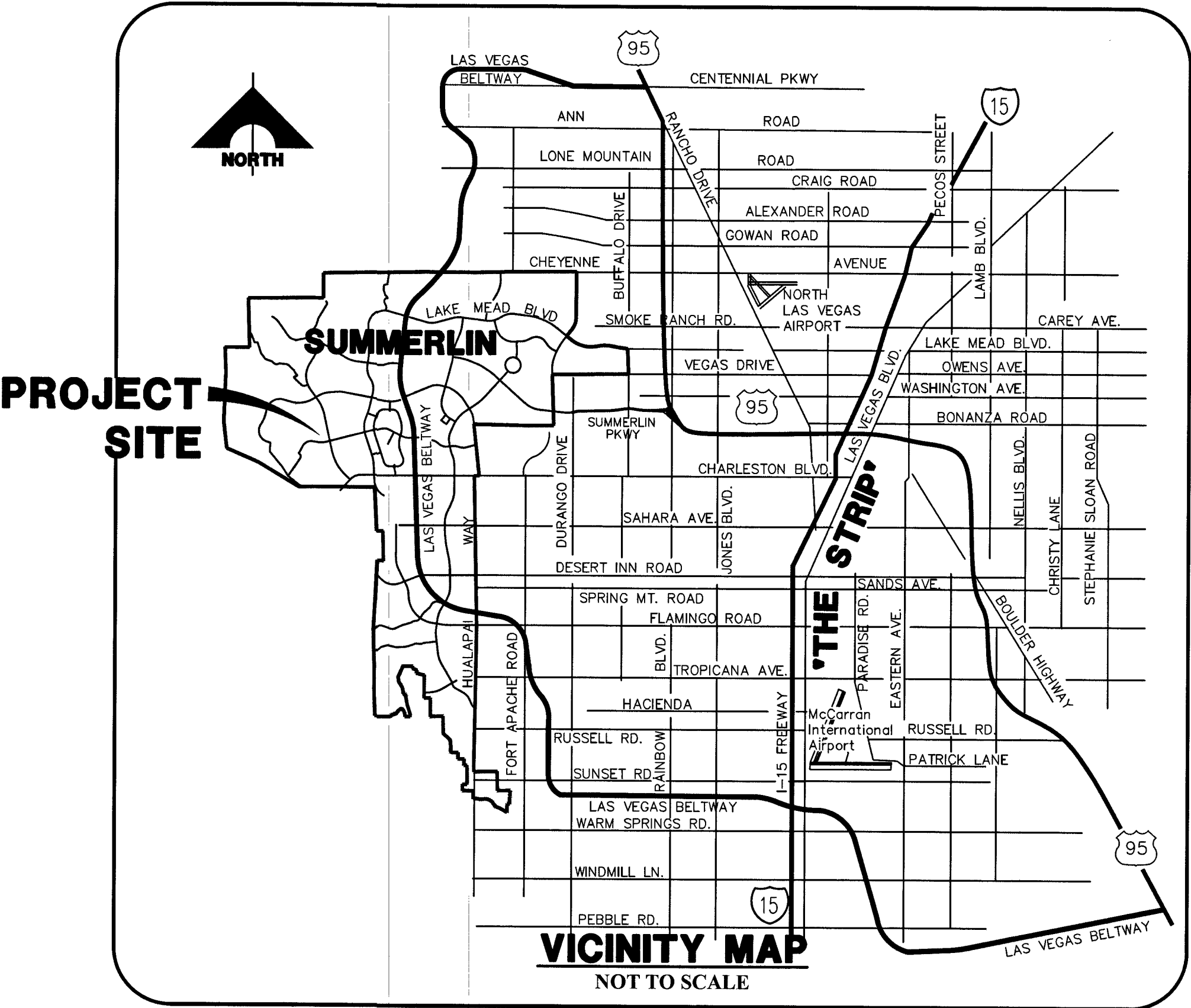


SUMMERLIN



VILLAGE 24A ROUGH GRADING FOR PARCEL 0 2019

A.P.N. 137-33-501-001, 137-28-000-003
NON SID PROJECT



OWNER/DEVELOPER
THE HOWARD HUGHES COMPANY, LLC
10801 W. CHARLESTON BLVD., 3RD FLOOR
LAS VEGAS, NEVADA 89135
OFFICE PHONE NO. (702) 791-4300

ENGINEER
GCVI ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600

Call before you Dig
Avoid hitting overhead power lines. It's costly.
Call 1-702-227-2929

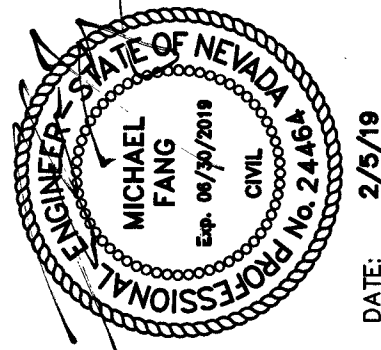
Call before you Dig
Underground
1-702-432-5300
Freeway and Arterial System of Transportation (FAST)

DRAINAGE CERTIFICATION
I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.
MICHAEL FANG, P.E. 24464 2/5/19 DATE

THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE CITY OF LAS VEGAS PLANNING DEPARTMENT
N/A CITY OF LAS VEGAS PLANNING DEPARTMENT DATE

HOWARD HUGHES COMPANY, LLC
KEVIN ORROCK VICE PRESIDENT 02/5/19 DATE

INDEX OF SHEETS		
SHT. #	DWG. #	DESCRIPTION
1	G1	COVER SHEET
2	G2	PROJECT DATA SHEET
3	GD1	GRADING PLAN 1
4	GD2	GRADING PLAN 2
5	DT1	SECTION PLAN



PROJECT NO.	DESIGN	DRAWN	CHECK	PLOT DATE	TIME	REV	DATE	DESCRIPTION
62024-240	LG/NF	NPD/AS	LG/NF	02-09-19	10:22:18			

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GCVI ENGINEERS \ SURVEYORS
F:\Projects\600\62024-240\DWG\Production\240-General.dwg
Michael Fang

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 24A
ROUGH GRADING FOR PARCEL 0
COVER SHEET

DRAWING
G1
1 OF 5 SHTS

107V7660 L19-00104

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE EXISTING OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT, ANY ADDITIONAL MATERIAL REQUIRED FOR OR REMOVAL OF MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL/VERTICAL	COMPACTION	
A. PAVEMENT AREA SUBGRADE	0.1±	+0.0' TO -0.1'	SEE SOILS REPORT
B. ENGINEERED FILL	0.5±	+0.1' TO -0.1'	SEE SOILS REPORT
- REPORT COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST SUPPRESSION IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT ALL ADJACENT PUBLIC OR PRIVATE PROPERTY OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT 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 CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

**LAS VEGAS VALLEY CONSTRUCTION STORMWATER
RUNOFF MANAGEMENT - STANDARD NOTES**

- ### EXISTING UTILITY NOTE

DEVIATION FROM STANDARDS

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST EDITION; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARD SPECIFICATIONS FOR SUMMERLIN AREA" 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, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITY LOCATIONS CLY PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. 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'S 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 UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WITHIN OR TO REMOVED 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 AND 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 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE 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' UP IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER DOWNSHALL TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY
NOVA GEOTECHNICAL & INSPECTION SERVICES, REPORT # G-18-013
DATE MARCH 13, 2018 APPROVED BY THE CITY ENGINEER, AND AS
SHOWN ON THESE PLANS.

13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
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. 625.300 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METERS BOX, GATES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUTSIDE DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS BOUTS. WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE INTERFERENCES WILL REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALE BOXES, ETC. MANHOLE RIMS AND SEWER CLEAN OUTS, TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. 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 UNLESS HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND UTILITY SERVICES SUCH AS MARKER BALLS, LOTTING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF LOCALIZATION OF DEFECTS. THE SURVEY SHALL INCLUDE THE MINIMUM OF THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION POINTS. STORM DRAIN TRANSITION POINTS ARE THE CONNECTION POINTS OF STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET. THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERAL ENTERS THE SEWER MAIN. THE SURVEY SHALL INCLUDE THE LOCATION OF ALL SANITARY SEWER, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.

OR

(MAY BE USED ONLY ON PROJECTS ASSOCIATED WITH A TENTATIVE MAP CONTAINING 5 LOTS OR MORE)

- SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VERTICAL INSPECTION. THE MAP(S) SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION FOR ALL EXISTING AND PROPOSED STORM DRAIN AND SANITARY SEWER TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE LOCATION OF ALL OF THE EXISTING AND PROPOSED STORM DRAIN AND SANITARY SEWER SERVICE LATERALS EXHIBIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS, THE LOCATION OF ALL EXISTING AND PROPOSED STORM DRAIN AND SANITARY SEWER OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. THE LOCATION MAP(S) MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL ENGINEER. THE MAP(S) SHALL BE A MINIMUM OF 11 INCHES BY 17 INCHES (2.0 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COPY, UNLIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN MAP(S) SUBMITTAL, SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.

- 23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.**

REVISÉ 06/04/18

PROPOSED UTILITIES EXISTING UTILITIES FUTURE UTILITIES SECTION LINE EASEMENT LINE RIGHT-OF-WAY LINE PROPERTY LINE CENTERLINE 100 YR HYDRAULIC GRADE LINE (ULT) 100 YR HYDRAULIC GRADE LINE (INT) PROPOSED UTILITY (BY OTHERS) PROPOSED SEWER LINE W/MH FUTURE SEWER LINE W/MH EXISTING SEWER LINE W/MH EXISTING WATER LINE & GATE VALVE PROPOSED WATER LINE & GATE VALVE PROPOSED WATER LINE & GATE VALVE FUTURE WATER LINE & GATE VALVE 2" G 2-6" E CATV TEL OHP PROPOSED STORM DRAIN W/MH EXISTING STORM DRAIN W/MH FUTURE STORM DRAIN W/MH EXISTING SIDEWALK AND RAMP CONSTRUCT CURB DEPRESSION FOR FUTURE HANDICAP RAMP VIEW FENCE NEW ABANDONED PIPE EXISTING ABANDONMENT SAWCUT STEEL CASING APPROXIMATE PAVEMENT RESTORATION TO BE ABANDONED PROFILE HATCH WATER STUB WITH BLOW-OFF FUTURE WATER STUB WITH BLOW-OFF SEWER STUB WITH CAP FUTURE SEWER STUB WITH CAP EDGE OF PAVEMENT OUTSIDE EDGE CUT LIMIT LINE FILL LIMIT LINE	BENCHMARK POTHOLE LOCATION EXISTING NPC RS-100 EXISTING DROP INLET FUTURE DROP INLET EXISTING GATE VALVE FUTURE GATE VALVE EXISTING WATER METER PROPOSED WATER FITTINGS PROPOSED GATE VALVE PROPOSED WATER METER EXISTING TRAFFIC SIGNAL PULL BOX EXISTING TELEPHONE MANHOLE EXISTING POWER POLE EXISTING ELEC MARKER EXISTING TRAFFIC SIGNAL EXISTING FIRE HYDRANT FUTURE FIRE HYDRANT EXISTING UTILITY BOX EXISTING METER BOX EXISTING POLE PROPOSED CONTOUR EXISTING CONTOUR SPOT ELEVATION EXISTING SPOT ELEVATION ROAD SLOPE EXISTING CLARK COUNTY STREET LIGHT (STLT) EXISTING SUMMERLIN STREET LIGHT (STLT) PROPOSED SUMMERLIN STREET LIGHT (STLT) TOP SLOPE TOE SLOPE RETAINING WALL STORM DRAIN MANHOLE (SEE PLAN FOR SIZE AND TYPE)
--	---

AIR	ASPHALT CONCRETE, ACRE	FL	FIRE HYDRANT	R, RT	RIGHT	
AC	ASBESTOS CEMENT PIPE	FLP	FLOW LINE	RCB	REINFORCED CONCRETE BOX	
ADD'L	ADDITIONAL	FRP	FIBER OPTIC	RCD	REINFORCED CONCRETE PIPE	
ADP	ADDITIONAL POINT	FRP	FIBERGLASS REINFORCED PLASTIC	RO	ROAD	
APN	ASSESSOR'S PARCEL NUMBER	FS	FINISH SURFACE	ROWNY	ROADWAY	
APPROX	APPROXIMATELY	FT	FOOT/FEET	REC	RECTANGULAR	
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	FTG	FOOTING	REF	REFERENCE	
		FUT	FUTURE	REF	REINFORCED	
		G	GAS	REQD	REQUIRED	
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GA	GAGE, GUY ANCHOR	RM	TOP OF RIM ELEVATION	
AVE	AVENUE	GB	GRADE BREAK	RND	RADIUS	
AVAR	AIR VALVE, AIR RELEASE	GRD	GRADE	RIGHT OF WAY	RP	RIGHT OF WAY
AWWA	AMERICAN WATER WORKS ASSOCIATION	GRD	GRADE	RP	RADIUS POINT	
BC	BACK OF CURB	H, HGT	HEIGHT	RPM	RAISED PAVEMENT MARKERS	
BC	BACK PUMP RETURN	HGL	HEADWALL	RSVG	RESILIENT GATE VALVE	
BLM	BUREAU OF LAND MANAGEMENT	HORIZ	HORIZONTAL	SCH	SCHEDULE	
BLVD	BOULEVARD	HP	HIGH POINT, HIGH PRESSURE	SD	STORM DRAIN	
BO	BENCHMARK	HPS	HIGH PRESSURE SODIUM	SDM	STORM DRAIN MANHOLE	
BO	BLOW-OFF	IBC	INTERNATIONAL BUILDING CODE	SECT	SECTION	
BVCE	BEGIN VERTICAL CURVE ELEVATION	INV	INVERT	SF	SQUARE FOOT/FEET	
BVCS	BEGIN VERTICAL CURVE STATION	INTERM	INTERMEDIATE	SHLDR	SHOULDER	
BV	BEGIN VERTICAL POINT	INT	JOINT	SHT	SHEET	
BW	BACK OF SIDEWALK	LT	LENGTH	SIS	SUMMERLIN IMPROVEMENT	
C, C'	CENTERLINE	L, LT	LEFT	STD	STANDARD	
C	CURB AND GUTTER	LF	LINEAR FEET	STL	STRUCTURE	
CATV	UNDERGROUND CABLE TV	LIP	LIP OF GUTTER	SP	SERVICE POINT	
CCBM	CLARK COUNTY BENCH MARK	LANK	LOW POINT, LIGHT POLE	SQ	SQUARE	
CCPW	CLARK COUNTY PUBLIC WORKS	LSCP	LANDSCAPE	SS	SEWER RECLAIM MAIN	
CCWD	CLARK COUNTY WATER DISTRICT	LWVWD	LOW VALLEY WATER DISTRICT	SS	SANITARY SEWER	
		MAXIMUM	MAXIMUM	SSMH	SANITARY SEWER MANHOLE	
		MIN	MINIMUM	STA	STATION	
		MIN	MINIMUM	STD	STANDARD	
		MPC	MORTAR LINED AND COATED PIPE	STL	STEEL	
CPS	PER SECOND	MES	MESA PARK	STRUCT	STRUCTURE	
CIP	CORRUGATED IRON PIPE	MOD	MODIFY/MODIFIED	SVZ	VIEW VISIBILITY ZONE	
CIPM	CORRUGATED IRON PIPE	MON	MONUMENT	SW	SIDEWALK	
CIPP	CORRUGATED IRON PIPE	MPH	MILES PER HOUR	SWG	SOUTHWEST GAS	
CIR	CIRCLE	N	NORTH	TELEPH	TELEPHONE OR TOP	
CLR	CLEAR OR CLEARANCE	NDP	NEVADA DEPARTMENT OF TRANSPORTATION	TANG	TANGENT	
CLSM	CONCRETE LINED LOW STRENGTH MATERIAL	NO	NUMBER	TOP	TOP OF BERM	
		NO	NUMBER	TC	TOP OF CURB	
		NO	NUMBER	TCE	TEMPORARY CONSTRUCTION ESM	
CLV	CITY OF LAS VEGAS	NO	NUMBER	TEL, TELE	TELEPHONE	
CNV	CORRUGATED METAL PIPE	NTS	NOT TO SCALE	TEMP	TEMPORARY	
CNVL	CITY OF NORTH LAS VEGAS	NVE	NO ENERGY	TF	TOP OF FOOTING	
CNO	CLEANOUT	OB	OVERBUILT	TG	TOP OF GRATE	
CONC	CONCRETE	ON	ON CENTER	THM	TOP OF MANHOLE	
COND	CONDUIT	OHC	OVERHEAD CO COMMUNICATION	TOP	TOP OF PIPE	
CONST	CONSTRUCT OR CONSTRUCTION	OHP	OVERHEAD POWER LINE	TP	TELEPHONE POLE	
COORP	COORDINATE	OWER	POWER LINE	TRANS	TRANSITION	
COR	CORNER	PULL	PULL BOX	TRW	TOP OF RETAINING WALL	
CEP	CORRUGATED POLYETHYLENE PIPE	PBS	PLANKMIX BITUMINOUS SURFACE	TRW	TRAFFIC SIGNAL	
CT	CUBIC YARD(S)	PBS	POINT OF CURVE, PRESSURE	TOP	TOP OF WALL	
A	DELTA	PCC	POINT OF COMPOUND CURVE	TYF, (TYP)	TYPICAL	
DBL	DOUBLE	PED	PROJECT ENGINEER OR	UDACS	UNIFORM DESIGN	
DCS	DESIGN AND CONSTRUCTION	PEN	PEDESTRIAN		CONSTRUCTION STANDARDS FOR	
DCSWCS	STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)	PGL	PROFILE GRADE LINE		WATER DISTRIBUTION SYSTEMS	
		PH	POTHOLE		(LATEST EDITION)	
		PI	POINT OF INTERSECTION	UG	UNDERGROUND	
		PV	POST INDICATOR VALVE	ULT	ULTIMATE	
		R	PROPERTY LINE	USDA	UNITED STATES	
DGL	DEFLECTION	PLMP	POLYMERHANE MANHOLE		STANDARD DRAWINGS FOR	
DE	DESIGN GRADE	PNC	POINT ON CURVE, POINT OF CONNECTION		PUBLIC WORKS' CONSTRUCTION	
DA, Ø	DIAMETER	PP	POINT ON TANGENT		OFF-SITE IMPROVEMENTS (LATEST EDITION)	
DIP	DUCTILE IRON PIPE	POT	POWER	UT	UNDERGROUND TELEPHONE	
DIST	DISTANCE	PP	POWER	VAR	VARIABLE/VARIES	
DR	DRIVE	PROP	PROPOSED	VC	VERTICAL CURVE	
DSL	DOWNSPOUT	PRC	POINT OF REVERSE CURVE	VCP	VITRIFIED CLAY PIPE	
DTL	DETAILED	PRV	POINT OF REVERSE VERTICAL CURVE	VERT	VERTICAL	
DW	DRIVEWAY	PSI	POUNDS PER SQUARE INCH	VOL	VOLUME	
DWG	DRAWING	PT	POINT OF TANGENCY	W	WATER	
DWG	DRAWING	PT	POINT OF TANGENCY	W/	WITH	
E	EAST	PWC	PUBLIC UTILITY CASEMENT	WMH	WATER MANHOLE	
EOR	END CURB RETURN	PVC	POLYVINYL CHLORIDE	WT	WEIGHT	
ELE, ELEC	ELEVATION	PV	POINT OF VERTICAL INTERSECTION	WTR	WATER	
ELEV	ELEVATION	PVMT	PAVEMENT	XING	CROSSING	
EOP	EDGE OF PAVEMENT	PZ	PRESSURE ZONE	YD	YARD, YARD DRAIN	
ESMT	EASEMENT	R, RAD	RADIUS, RADIUS	Z	PRESSURE ZONE	
EVC	END VERTICAL CURVE					
EXP	END VERTICAL POINT					
EXP, EX	EXPANSION JOINT					

FILL NOTE

ALL IMPORTED MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL FIRM PROVIDING TESTING DURING CONSTRUCTION, PRIOR TO IMPORTING.

STRUCTURAL FILL SHOULD BE OBSERVED AND TESTED AS NECESSARY TO DETERMINE COMPLIANCE WITH THE COMPACTION REQUIREMENTS PRESENTED IN THE APPROVED GEOTECHNICAL REPORT.

SITE CLEARING NOTES

1. STRIP AND REMOVE EXISTING VEGETATION, DEBRIS, UNCONTROLLED FILL, ALL LOOSE OR DISTURBED NATURAL SOILS, AND OTHER DELETERIOUS MATERIALS FROM PROPOSED GRADING AREAS. EXCAVATION SHOULD EXTEND AT LEAST 5 FEET BEYOND THE AREAS TO BE IMPROVED IN PLAN VIEW. UNCONTROLLED FILL IS DEFINED AS ANY EXISTING FILL THAT WAS NOT PROPERLY PLACED, OBSERVED AND TESTED.

2. ALL EXPOSED SURFACES SHOULD BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION.

FLOOD ZONE NOTE

SITE LOCATED ON THE FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) CONTAINING COMMUNITY PARCEL NUMBER 32003C 2150E DATED SEPTEMBER 27, 2002. THE FIRM MAP SHOW THAT THE PROJECT IS LOCATED WITHIN A ZONE X DEFINED AS BEING OUTSIDE THE 500-YEAR FLOODPLAIN AND NOT LOCATED WITHIN FEMA DESIGNATED SPECIAL FLOOD ZONE HAZARD AREA (SFHA).

ESTIMATED ROUGH GRADING QUANTITIES

QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR
IS TO VERIFY DURING BIDDING PROCESS.

PUBLIC

EXCAVATION _____	181,860 CY
EMBANKMENT _____	71,550 CY

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call
811

OR
1-800-227-2600



AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY

**CALL BEFORE
YOU DO
OVERHEAD**

1-702-227-2929

107V7660 L19-00104

[illegible]

PROJECT NO.
62024-240
DESIGN: LG/MF
DRAWN: NPD/AS
CHECK: LG/MF
PLOT DATE: 02-05-19

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

GCL
ENGINEERS \ SURVEYORS

THE HOWARD HUGHES COMPANY, LLC

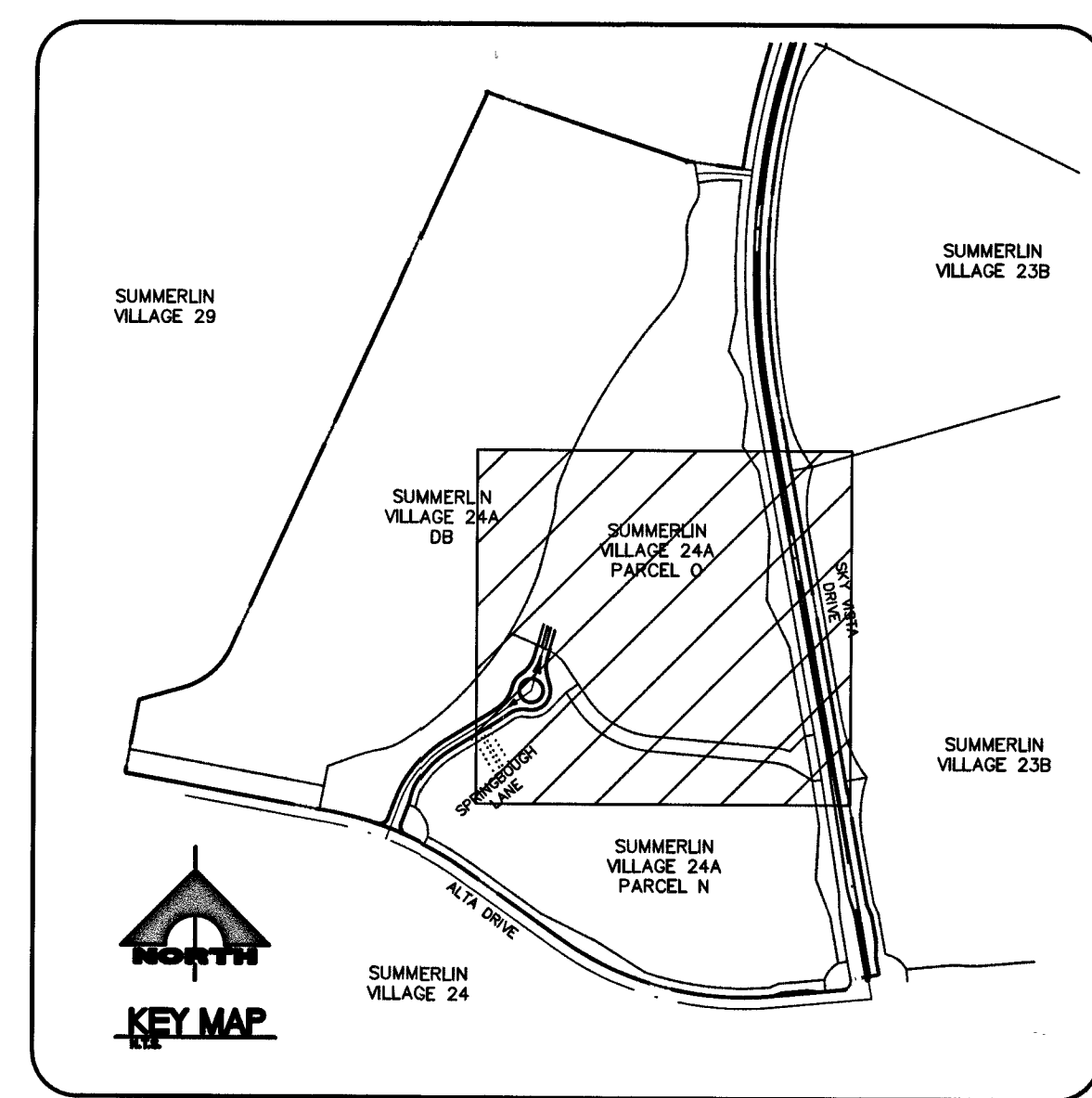
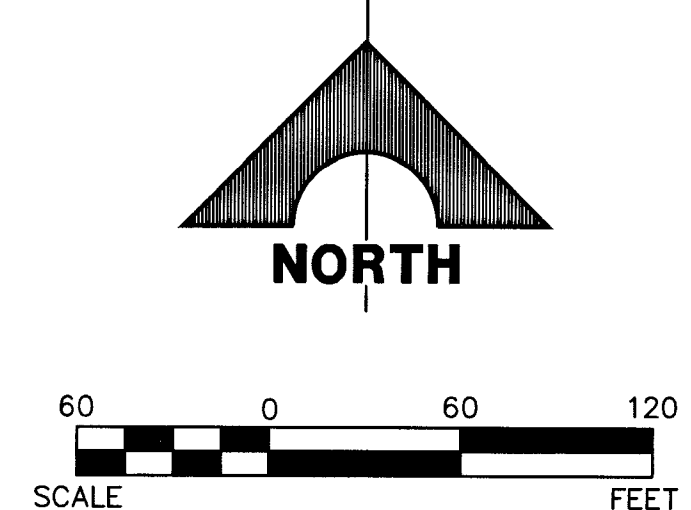
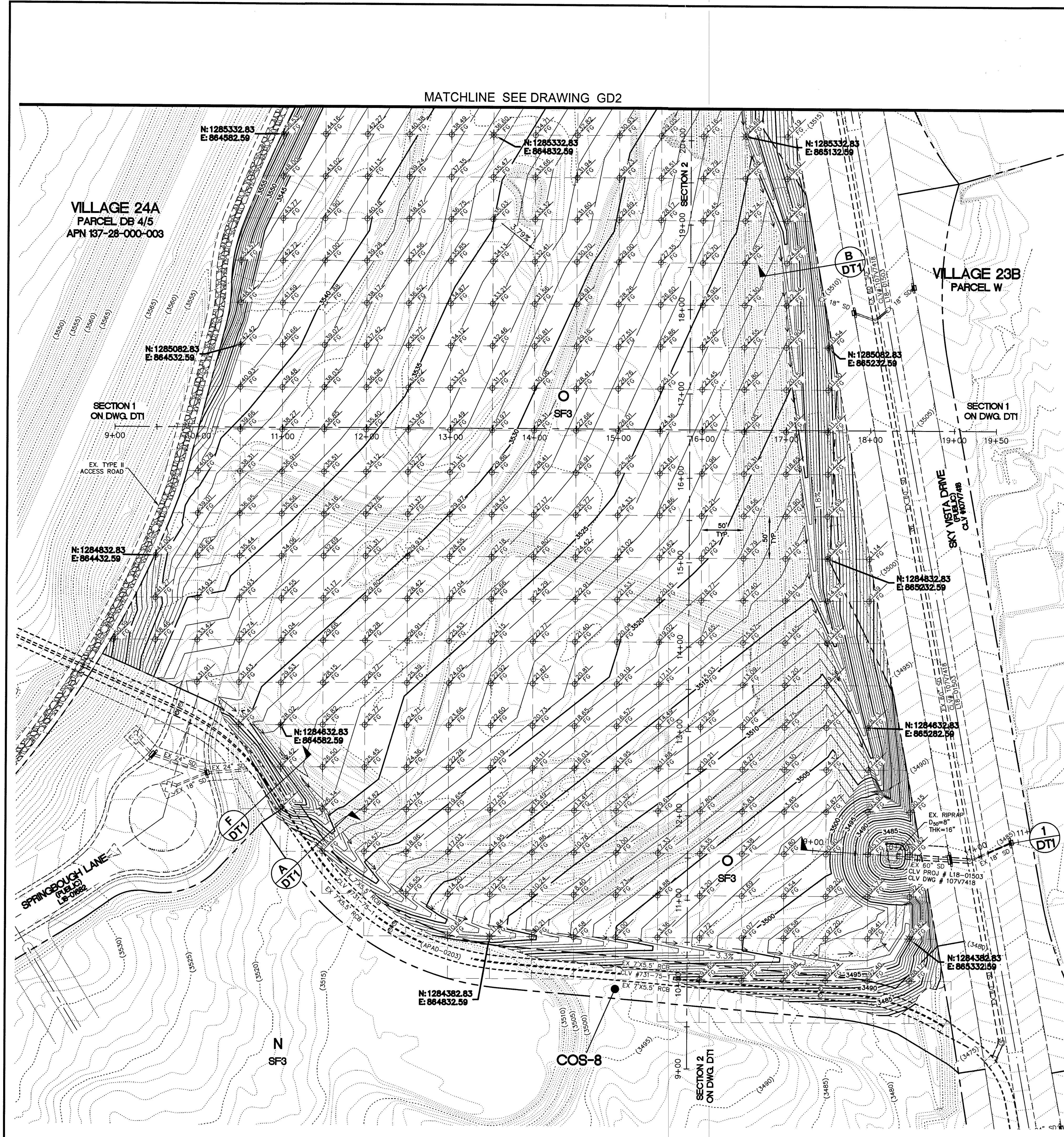
VILLAGE 24A
ROUGH GRADING FOR PARCEL O

PROJECT DATA

DRAWING

G2

2 OF 5 SHTS



EARTHWORK QUANTITIES
CUT VOLUME = 181,860 CY
FILL VOLUME = 71,550 CY

DRAINAGE FACILITIES NOTE
THE PROPOSED DITCHES ARE ON-SITE DRAINAGE FACILITIES AND TO BE PRIVATELY OWNED AND PRIVATELY MAINTAINED BY THE OWNER/DEVELOPER.

FLOOD ZONE NOTE
SITE LOCATED ON THE FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) CONTAINING COMMUNITY PARCEL NUMBER 32003C 2150E DATED SEPTEMBER 27, 2002. THE FIRM MAP SHOWS THAT THE PROJECT IS LOCATED WITHIN A ZONE X DEFINED AS BEING OUTSIDE THE 500-YEAR FLOODPLAIN AND NOT LOCATED WITHIN FEMA DESIGNATED SPECIAL FLOOD ZONE HAZARD AREA (SFHA).

FILL NOTE
ALL IMPORTED MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL FIRM PROVIDING TESTING DURING CONSTRUCTION. PRIOR TO IMPORTING. STRUCTURAL FILL SHOULD BE OBSERVED AND TESTED AS NECESSARY TO DETERMINE COMPLIANCE WITH THE COMPACTION REQUIREMENTS PRESENTED IN THE APPROVED GEOTECHNICAL REPORT.

SITE CLEARING NOTES
1. STRIP AND REMOVE EXISTING VEGETATION, DEBRIS, UNCONTROLLED FILL, ALL LOOSE OR DISTURBED NATURAL SOILS, AND OTHER DELETERIOUS MATERIALS FROM PROPOSED GRADING AREAS. EXCAVATION SHOULD EXTEND AT LEAST 5 FEET BEYOND THE AREAS TO BE IMPROVED IN PLAN VIEW. UNCONTROLLED FILL IS DEFINED AS ANY EXISTING FILL THAT WAS NOT PROPERLY PLACED, OBSERVED AND TESTED.
2. ALL EXPOSED SURFACES SHOULD BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION

GEOTECHNICAL NOTE
ALL GRADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION MANUAL AND THE SOILS REPORT AS PREPARED BY NOVA GEOTECHNICAL & INSPECTION SERVICES, PROJECT NUMBER G-18-013, DATED MARCH 13, 2018, WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.

NOTE
THIS SET OF DRAWINGS IS BASED UPON NAVD 88. PREVIOUS DRAWINGS MAY BE BASED ON OTHER DATUM. CARE SHOULD BE OBSERVED WHEN UTILIZING THIS SET OF DRAWINGS.

BASIS OF BEARINGS AND COORDINATES
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE. NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000.00 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

BENCHMARK		NAVD 88 DATUM	NAVD 88 DATUM
BM #	DESCRIPTION		
CLV BM NO. 7/LV09345W6	FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205/R59E,S34	3318.31 (FEET)	1,011.422 (METERS)

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1-702-435-6000

Call before you Dig
Call 811
1-702-227-2629
CLARK COUNTY PUBLIC OPERATIONS
1-702-435-6000

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1-702-435-5300
FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

PROJECT NO. 62024-240
DESIGN: LG/MF
DRAWN: NPD/AS
CHECK: LG/MF
PLOT DATE: 02-05-19
PLOT TIME: 10:23:39

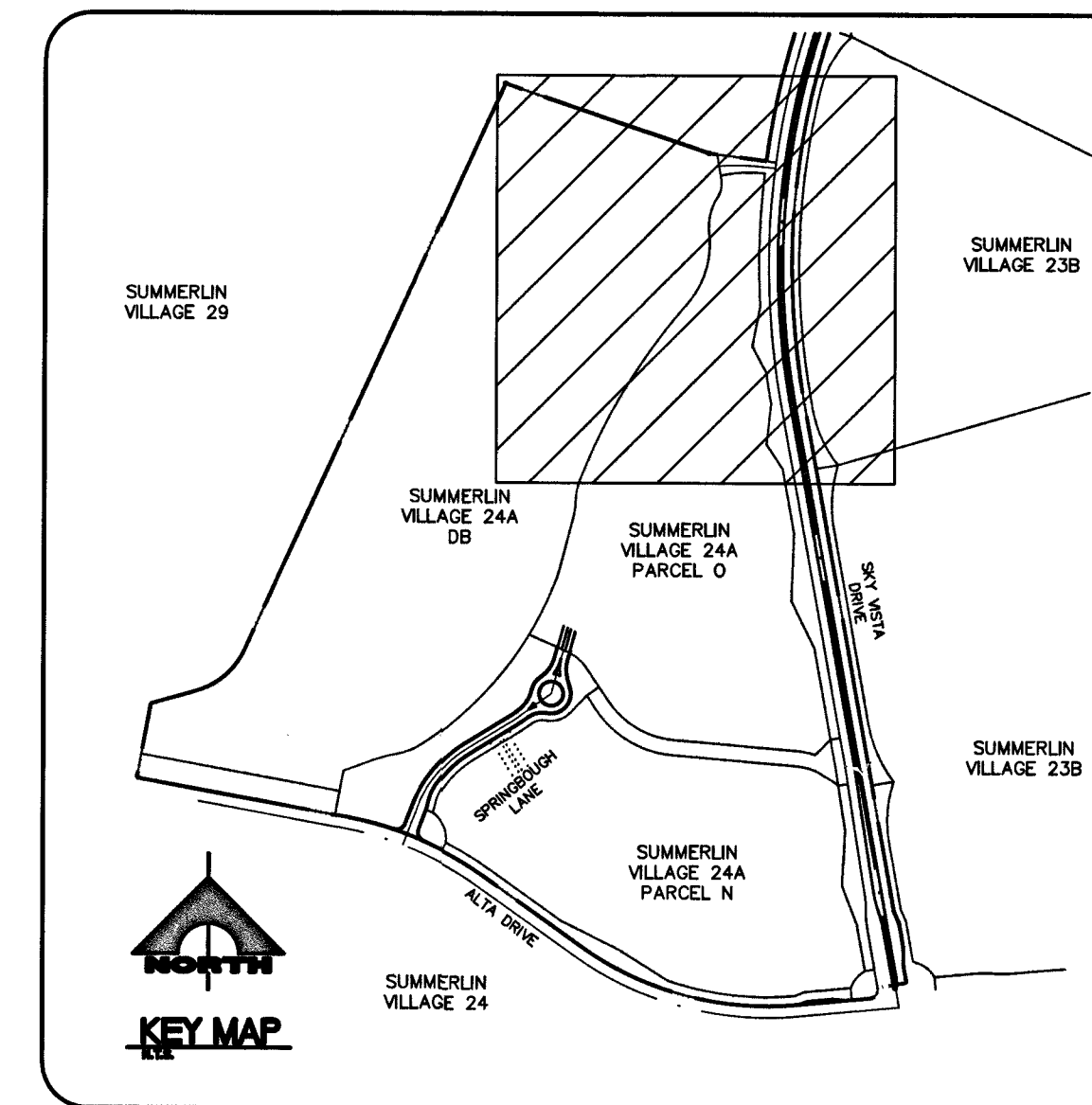
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 24A
ROUGH GRADING FOR PARCEL O
GRADING PLAN 1

DRAWING GD1
3 OF 5 SHTS

ENGINEERS & SURVEYORS

DATE: 2/5/19



THE PROPOSED DITCHES ARE ONSITE DRAINAGE FACILITIES AND TO BE PRIVATELY OWNED AND PRIVATELY MAINTAINED BY THE OWNER/DEVELOPER.

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GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)
 DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
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 ZONE: LAS VEGAS HIGH ELEVATION ZONE

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EASTING AT CENTRAL MERIDIAN: 300,000 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

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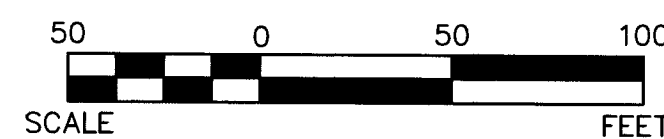
BENCHMARK			
BM #	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. 7LV0934SW6	FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T20S,R59E,S34	3318.31 (FEET)	1,011.422 (METERS)



Profile view of the proposed road. The vertical axis shows elevation in feet (3500 to 3570). The horizontal axis shows stationing from 10+00 to 19+00. The profile includes existing ground (dashed line) and proposed grading (solid line). Key features include a 2.9% grade from station 10+00 to 14+00, a 3.3% grade from station 14+00 to 17+00, and a 2.9% grade from station 17+00 to 18+00. Match points are indicated at stations 10+00, 14+00, 17+00, and 18+00. A note refers to Detail B & C for berm height information.

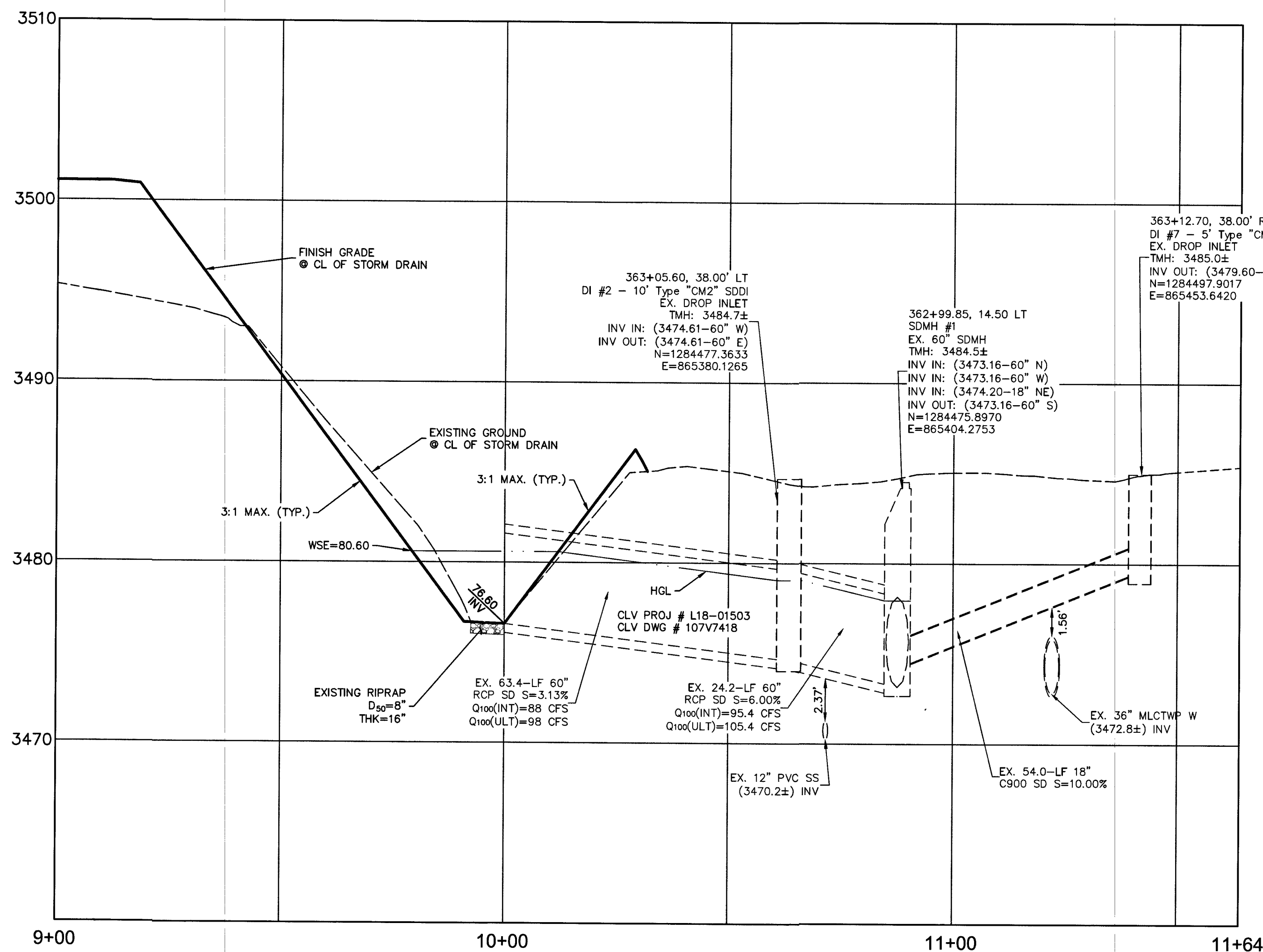
Station	Existing Ground (ft)	Proposed Grading (ft)
10+00	3544.7	3544.71
11+00	3545.5	3538.30
12+00	3543.5	3535.42
13+00	3537.5	3532.52
14+00	3540.1	3528.32
15+00	3533.3	3526.02
16+00	3530.5	3522.71
17+00	3509.0	3519.41
18+00	3505.1	3504.8

HORIZ SCALE: 1" = 100'
VERT SCALE: 1" = 10'



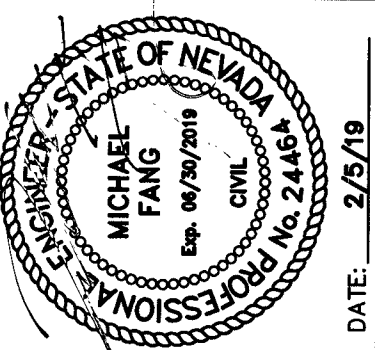
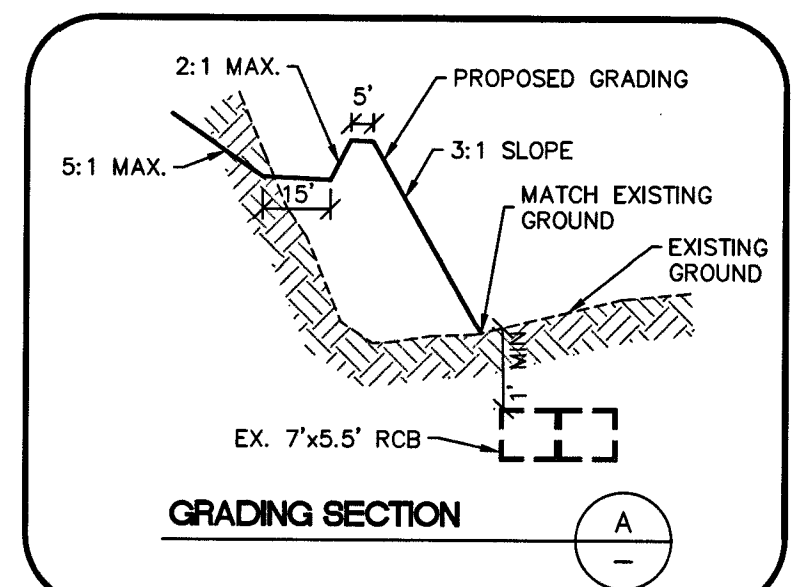
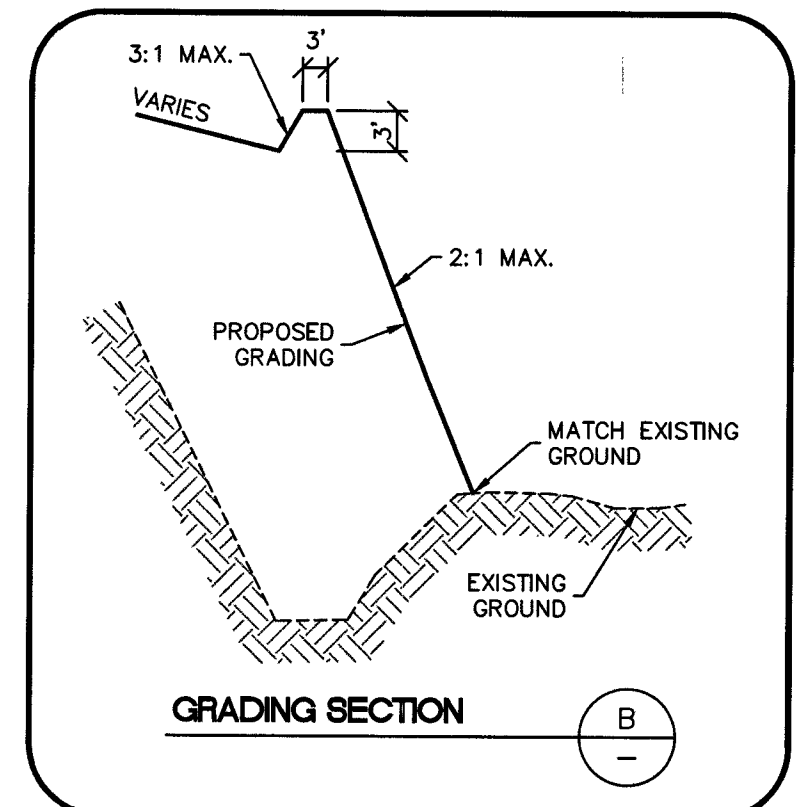
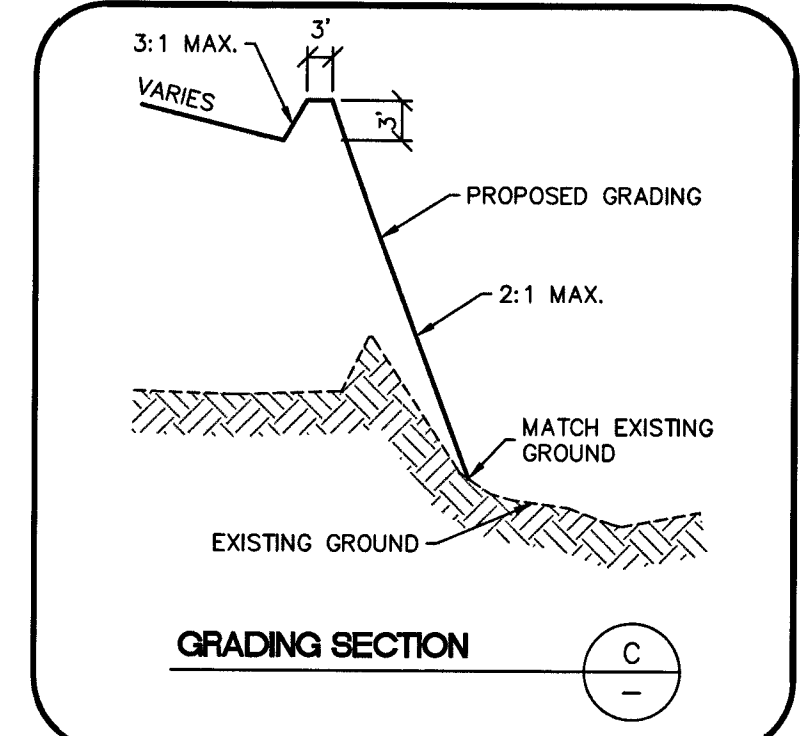
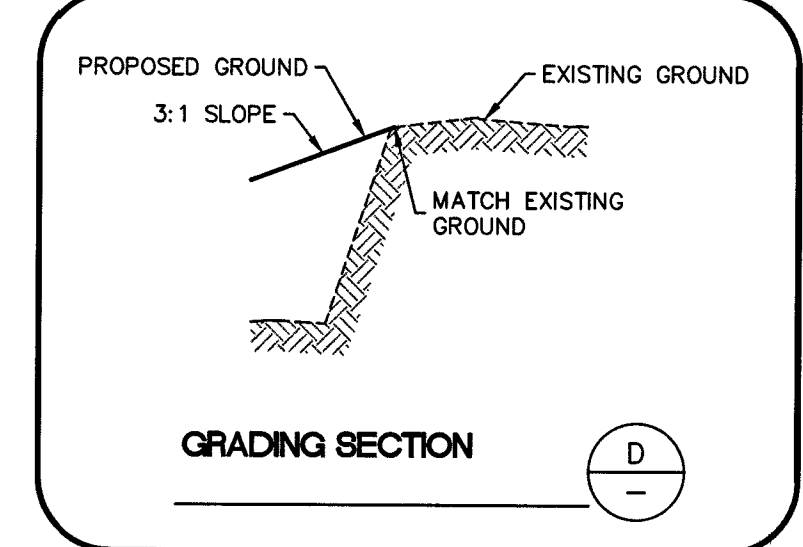
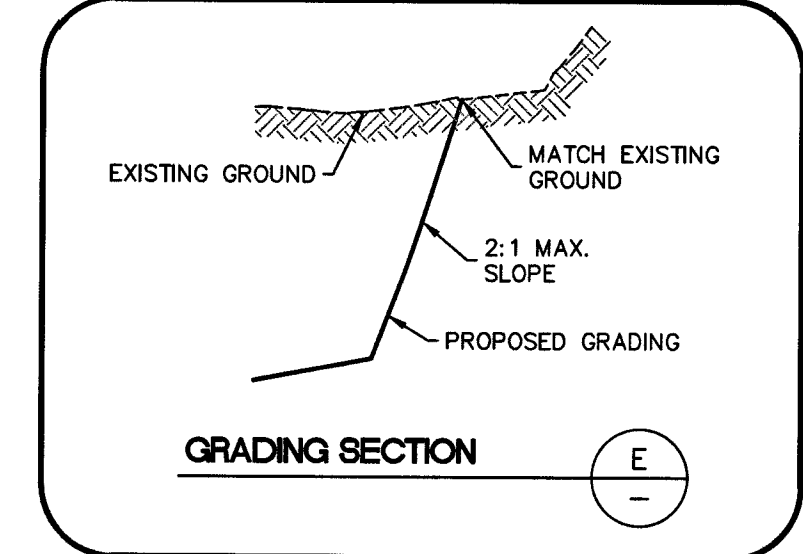
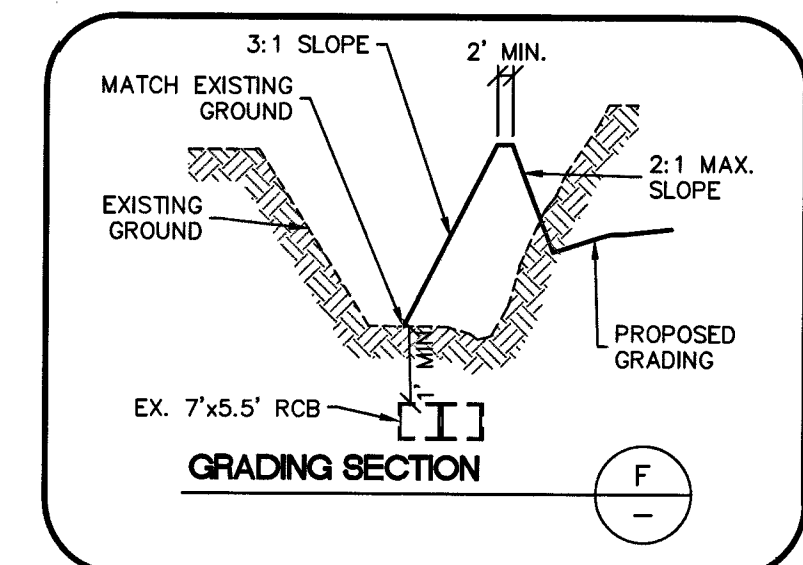
The profile view shows the vertical alignment of the proposed road. The horizontal axis represents stationing from 10+00 to 30+00. The vertical axis represents elevation in feet, ranging from 3490 to 3570. The existing ground is shown as a dashed line, and the proposed grading is shown as a solid line. The proposed grading includes a 4.3% slope from station 12+00 to 14+00, a 1.5% slope from station 18+00 to 20+00, and a 2.3% slope from station 26+00 to 28+00. Match points are indicated at stations 10+00 and 29+00. Elevation data points are provided for both existing ground and proposed grading at various stations.

Station	Existing Ground Elevation (ft)	Proposed Grading Elevation (ft)
10+00	3491.9	3492.12
11+00	3497.9	3503.48
12+00	3508.12	3508.12
13+00	3519.6	3512.74
14+00	3521.0	3517.89
15+00	3532.5	3520.49
16+00	3531.9	3522.36
17+00	3531.1	3523.86
18+00	3531.2	3525.36
19+00	3531.4	3526.92
20+00	3542.1	3527.80
21+00	3541.2	3529.36
22+00	3540.2	3530.95
23+00	3546.0	3531.27
24+00	3541.1	3533.97
25+00	3532.9	3536.25
26+00	3532.9	3538.49
27+00	3532.0	3540.73
28+00	3533.5	3542.90
29+00	3543.8	3544.63
30+00	3548.5	-



**SKY VISTA DRIVE
STORM DRAIN PROFILE @ 362+99.85**

SCALE: HORIZ. 1"=20', VERT. 1"=5'

[illegible]

GCV
ENGINEERS & SURVEYORS

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F: 702.804.2299
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Project: 600-2024-240 (WVA Production) 240-031-2.dwg
Michael Fang

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 24A
ROUGH GRADING FOR PARCELO
SECTION PLAN

DRAWING
DT1
5 OF 5 SHTS

107V7660

L19-00104