



Addendum #1 to Update #1 to the Technical Drainage Study for **Summerlin West Village 25**

Sandstone Rise Drive (Street M): Park Drift Trail
(Street K) to Sky Vista Drive

Prepared for Howard Hughes Company, LLC

March 4, 2021

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: Sandstone Rise Drive (Street M): Park Drift Trail to Sky Vista Drive Date: March 4, 2021
Location of Development: a) Descriptive (Cross Streets) North/South: Sky Vista Drive
East/West: Far Hills Avenue
b) Section: 21 and 22 Township: 20S Range: 59E
c) APN : 137-21-801-001, 137-22-301-001

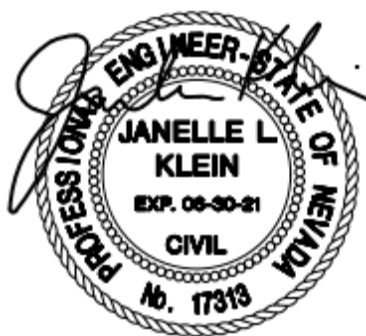
Name of Owner: Howard Hughes Company, LLC
Telephone No.: (702) 791-4000 Fax No.: (702) 791-4450 E-Mail Address: april.chapman@howardhughes.com
Address: 10845 Griffith Peak Drive, Suite 160, Las Vegas, NV 89135

Contact Person-Name: Janelle Klein, PE Telephone No.: (702) 551-0365
* E-Mail Address: janelle.klein@atkinsglobal.com Fax No.: (702) 263-7200
Firm: Atkins
Address: 2270 Corporate Circle, Ste 200, Henderson, NV 89074

Type of Land Development/Land Disturbance Process:

☐	Rezoning	☐	Subdivision Map	☐	Clearing and Grading Only
☐	Parcel Map	☐	Planned Unit Development	☐	Other (Please specify below)
☐	Large Parcel Map	☐	Building Permit	☒	Roadway Improvements

1. Total Owned Land Area: At Site: +/- 446 acres Being Developed/Disturbed: 2.72 acres
2. Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? ☐ Yes** ☒ No
3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? Yes** ☒ No
4. Proposed type of development (Residential, Commercial, Etc.): Public - Roadway Improvements
5. Approximate upstream land area which drains to the subject site: None
6. Has the site drainage been evaluated in the past? ☒ YES ☐ NO If yes, please identify documentation: DS5221 and Update #2 to the Master Conceptual Drainage Study for Summerlin West Village 25
7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: Existing CC-215 Western Beltway Channel
8. Briefly describe your proposed schedule for the subject project: ASAP



03/04/2021

Engineer's Seal

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

***New Required Field**

****Review and concurrence of the Clark County Regional Flood Control District is required.**

DS5221 Local Entity File No.	Revision	Date

REFERENCE:

STANDARD FORM 1

Engineer's Certification

Atkins certifies that the information contained herein has been prepared in accordance with generally accepted engineering principles and practices, and to the best of our knowledge, is true and correct.

This letter certifies that all items in the **Addendum #1 to Update #1 to the Technical Drainage Study for Sandstone Rise Drive (Street M): Park Drift Trail (Street K) to Sky Vista Drive** electronic submittal matches the paper version bound into the study.



Janelle L. Klein, PE (NV #17313)
Senior Engineer

Your reference: DS #5221

Albert Sung
City of Las Vegas Public Works
333 N. Rancho Dr, 7th Floor
Las Vegas, NV 89106

March 4, 2021

RE: Addendum #1 to Update #1 to the TECHNICAL DRAINAGE STUDY FOR SUMMERLIN WEST VILLAGE 25 SANDSTONE RISE DRIVE (STREET M): PARK DRIFT TRAIL (STREET K) TO SKY VISTA DRIVE

Dear Albert,

This letter and the attached documents have been prepared as an Addendum to Update #1 to the *Technical Drainage Study (TDS) for Summerlin West Village 25 - Sandstone Rise Drive (Street M): Park Drift Trail (Street K) to Sky Vista Drive*.

Comment #1: Sheet 15/32 & Sheet 22/32: The revised storm drains connected at SDMH#7 (42"-PVC, 36"-RCP and 48"-RCP) are all very shallow to the street surface. Constant repair and maintenance will be a burden to the City. Address and resolve in the next submittal.

Comment response: An additional profile over the subject storm drain has been provided to show the actual depth over the pipes rather than the relative depth from the street centerline. Clearances at crossings of the existing NV Energy conduits and 24" waterline make deeper storm drain pipe depths not an option. Hydraulically equivalent horizontal elliptical pipes are not available in C-900.

Comment #2: Sheet 18/32 & Sheet 19/32: The linework or symbol for SDMH #3A was missing in both plans.

Comment response: The plans have been updated with the linework and symbol.

Comment #3: The project proposes to build temporary drainage facilities including drainage berms/swales for the flood protection of the proposed **Sandstone Rise Drive**. Prior to final plan approval the developer must complete a **Maintenance & Liability Agreement** for the interim drainage improvements and post a minimum maintenance bond of \$50,000 or 50-percent of the construction cost for the improvements, whichever is greater. The engineer must submit an estimate of the quantities for constructing the facilities and an exhibit that adequately shows the location and limits of the drainage facilities to *City of Las Vegas Flood Control* for approval. Once the drainage study is conditionally approved, the engineer should contact the *City's Land Development Section* (229-6371) to begin the agreement process.

In order for the maintenance bond to be released in the future, a drainage update / letter will be required to justify that the offsite berms / channels are no longer necessary and can be removed.

Comment response: The Maintenance & Liability Agreement with requisite quantity estimates and exhibits will be submitted.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect the drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of this drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the Nevada Division of Environmental Protection a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

Please contact our office at 702-551-0365 if you have any question regarding this submittal.

Sincerely,
Atkins,


Janelle L. Klein, PE (NV #17313)
Senior Engineer

CITY OF LAS VEGAS			DATE:
INTER-OFFICE MEMORANDUM			February 16, 2021
TO: Land Development Services Department of Building & Safety			FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:		COPIES TO:
	Summerlin West Village 25 - Sandstone Rise Dr. (Street M) (from Park Drift Trail <Street K> to Sky Vista Drive) – Update #1		Atkins
Cross Streets:	NWQ of Sky Vista Drive & Far Hills Avenue		Howard Hughes Company LLC
File Number:	F:\Depot\DSMemos\DS5221D.doc		Bart Anderson, P.E., DevCo
Parcel Number:	137-21-801-001, 137-22-301-001		CCRFC
Zoning Action:	N/A		
FEMA Flood Zone	YES	NO X	
Proposed Storm Drain	YES X	NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	11/20/2019	12/26/2019	Not Approved	\$400.00	3652617: \$400
2 nd Submittal	1/22/2020	2/20/2020	Conditional Approval	\$400.00	3713777: \$400
CCRFC	5/12/2020	5/26/2020	Concurrence Recv'd	N/C	N/C
3 rd Submittal (Paid on 2/4/2021)	1/27/2021	2/16/2021	See Comments Below	\$100.00	4157963: \$100
			TOTAL FEES (LDDRS):	\$900.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

	is approved subject to conformance to all City standards and the following conditions:
X	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.

- Sheet 15/32 & Sheet 22/32:** The revised storm drains connected at SDMH #7 (42"-PVC, 36"-RCP and 48"-RCP) are all very shallow to the street surface. Constant repair and maintenance will be a burden to the City. Address and resolve in the next submittal.
- Sheet 18/32 & Sheet 19/32:** The linework or symbol for SDMH #3A was missing in both plans.
- The project proposes to build temporary drainage facilities including drainage berms/swales for the flood protection of the proposed **Sandstone Rise Drive**. Prior to final plan approval the developer must complete a **Maintenance & Liability Agreement** for the interim drainage improvements and post a minimum maintenance bond of \$50,000 or 50-percent of the construction cost for the improvements, whichever is greater. The engineer must submit an estimate of the quantities for constructing the facilities and an exhibit that adequately shows the location and limits of the drainage facilities to *City of Las Vegas Flood Control* for approval. Once the drainage study is conditionally approved, the engineer should contact the *City's Land Development Section (229-6371)* to begin the agreement process.

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END OF REMARKS
HDR/AYS

T/R/S: T20S/R59E/21
AREA K-21

Atkins
2270 Corporate Circle
Suite 200
Henderson, NV 89074-7755

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Fax: +1 702 263 7200
Direct: +1 702 551 0365
Janelle.klein@atkinsglobal.com

1	COVER SHEET	
2	LEGEND AND ABBREVIATIONS	
3	GENERAL NOTES	
4	HORIZONTAL CONTROL PLAN	
5	MASTER DRAINAGE PLAN	
6	MASTER WATER PLAN	
7	MASTER SEWER PLAN	
8	SANDSTONE RISE DRIVE GRADING PLAN	STA 31+00 TO END
9	SANDSTONE RISE DRIVE PLAN AND PROFILE	STA 31+00 TO END
10	SANDSTONE RISE DRIVE GRADING PLAN	STA 27+00 TO STA 31+00
11	SANDSTONE RISE DRIVE PLAN AND PROFILE	STA 27+00 TO STA 31+00
12	SANDSTONE RISE DRIVE GRADING PLAN	STA 24+00 TO STA 27+00
13	SANDSTONE RISE DRIVE PLAN AND PROFILE	STA 24+00 TO STA 27+00
14	SANDSTONE RISE DRIVE GRADING PLAN	STA 20+00 TO STA 24+00
15	SANDSTONE RISE DRIVE PLAN AND PROFILE	STA 20+00 TO STA 24+00
16	SANDSTONE RISE DRIVE GRADING PLAN	STA 16+50 TO STA 20+00
17	SANDSTONE RISE DRIVE PLAN AND PROFILE	STA 16+50 TO STA 20+00
18	SANDSTONE RISE DRIVE GRADING PLAN	STA 12+00 TO STA 16+50
19	SANDSTONE RISE DRIVE PLAN AND PROFILE	STA 12+00 TO STA 16+50
20	SANDSTONE RISE DRIVE GRADING PLAN	BEGIN TO STA 12+00
21	SANDSTONE RISE DRIVE PLAN AND PROFILE	BEGIN TO STA 12+00
22	GRAND PARK BOULEVARD PLAN AND PROFILE	STA 10+00 TO STA 12+00
23	PARCEL J DRAINAGE SWALE	
24	STORM DRAIN LATERAL DETAILS	
25	WATER AND SEWER LATERAL DETAILS	
26	WATER LATERAL DETAILS	
27	STREET SECTIONS	
28	MISCELLANEOUS DETAILS	
29	RESERVOIR ENTRY DETAILS	
30	WATER METER DETAILS	
31	STREETLIGHT PLAN	
32	TRAFFIC PLAN	

SUMMERLIN®

CONTACT: KEVIN ORROCK
HOWARD HUGHES COMPANY LLC, A DELAWARE LIMITED LIABILITY COMPANY
10801 W. CHARLESTON BLVD., 3rd FLOOR
LAS VEGAS, NEVADA 89135

THE ENGINEER SHOULD CONTACT THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) TO OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PRIOR TO CONSTRUCTION. ALL CONSTRUCTION PROJECTS ONE ACRE OR LARGER MUST APPLY FOR THE PERMIT THROUGH NDEP. ALL QUESTIONS REGARDING THE NPDES PERMIT REQUIREMENTS SHOULD BE DIRECTED TO THE NDEP AT (775) 687-9429.

CONTACT: DAVID WILSON P.E.
ATKINS
2270 CORPORATE CIRCLE SUITE 200
HENDERSON, NEVADA 89074
(702) 263-7275

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2150E, DATED 9/27/2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

STEPHEN FORD, P.E. #012175
CITY ENGINEER

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND OR A DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS, EXCEPT THOSE SPECIFICALLY LISTED UNDER DEVIATIONS FROM STANDARD. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARDS IN FAVOR OF THE UNIFORM STANDARDS DRAWING AND SPECIFICATIONS CLARK COUNTY AREA, NEVADA.

CITY OF LAS VEGAS PLANNING DEPARTMENT DATE

NOTE:
THIS PLAN CONFORMS TO THE APPLICABLE STANDARDS OF THE PLANNING
DEPARTMENT.

LAS VEGAS FIRE AND RESCUE DATE

CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK

THE AFFIXED CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES, AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. _____ FIRST APPROVED DATE: _____

LVVWD APPROVED FIRE FLOW _____ GPM AT 20 PSI RESIDUAL
SHEETS: 1,2,3,6,9,11,13,15,17,19,21,22,25,26,27,28,30

NV ENERGY DATE

NV ENERGY HAS ACKNOWLEDGED WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA UTILITY COMMISSION'S RULES AND REGULATIONS.

SW GAS
PLANNER:
DATE:
SOUTHWEST GAS CORPORATION DATE

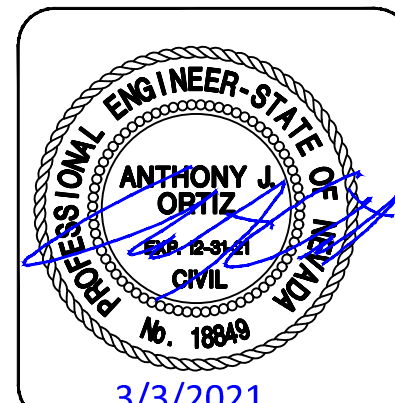
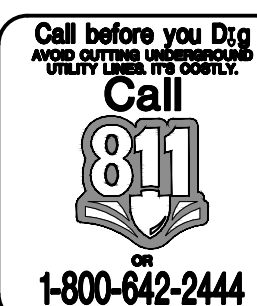
COX COMMUNICATIONS OF LAS VEGAS, INC DATE

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 OF 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 PROJECTED AREA
 2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EXACT GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET)
FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. &
WEST OF DETENTION BASIN.
T21S.R59E.S03

BEING A PORTION OF LOT 2 AS SHOWN ON THE MAP
THEREOF IN BOOK 124 OF PLATS, PAGE 51, OFFICIAL
RECORDS, CITY OF LAS VEGAS CLARK COUNTY, NEVADA.



REVISIONS

[illegible]

ATKINS
22270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7275
Fax: +1702.263.7200



SUMMERLIN VILLAGE 25

SANDSTONE RISE DRIVE (STREET M)
ISKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)

COVER SHEET

DESIGNED BY:
G. BLAKE

DRAWN BY:
G. BLAKE

CHECKED BY:
T. ORTIZ

HORIZ.: NONE

VERT.: NONE

107Y5132
L20-00453
DATE:
MARCH, 2021
DRAWING NO.
1/32

JOB NO. 100063656

[illegible]

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE 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".

- ALL NOTES:
16. 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 DESIGN BY THE CITY ENGINEER.
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, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. 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 SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN MANHOLE LATERALS TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS; THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORK OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINITIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES 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.

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 RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.

- REVISÉ 04/15/10

THE FOLLOWING SEPARATE VILLAGE 25 ROADWAY IMPROVEMENT PLANS ARE TO BE CONSTRUCTED CONCURRENTLY AND ARE SHOWN AS FUTURE (BY OTHERS):

- ### DEVIATION FROM STANDARDS

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6631 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 ELIGIBLE TO BE ORDERED BY THE CITY OF LAS VEGAS.
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. IFC §
4. 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 MUST BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, IFC § 3312
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. IFC § 507.5.7.3
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES SHALL BE CONDUCTED PRIOR TO ANY OTHER TYPE OF GROUND LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. IFC § 106.3
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.S.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24
8. PLANS FOR CURBS, SIDEWALKS, DRIVEWAYS, STAIRS, ETC., SHALL BE SUBMITTED TO THE FIRE DEPARTMENT AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. IFC § 507
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 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 AND THE CITY OF LAS VEGAS TO VERIFY THE REQUIRED FIRE FLOW. IFC § 507
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § 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 AVAILABLE, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN ONE THOUSAND PER DAY, ADDITIONAL FIRE HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. IFC § C102.8

13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE END OF THE RADIUS OF A 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. IFC § 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. IFC § 102.4.
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. IFC § C102.7.
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § 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, THE FIRST SOURCE OF SUPPLY SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS OR WATER 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 TWO FIRE HYDRANTS OR WATER SPRINKLER LEAD-IN CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. IFC § C104.
19. 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. IFC § 503.2.3.
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND 8% ANGLES OF DEPARTURE. THE MAXIMUM GRADE SHALL NOT EXCEED 2% GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. IFC § 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. IFC § 503.2.4.
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.5.
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB, NOT LESS THAN 28 FT WIDE WITH PARKING RESTRICTED TO ONE SIDE. THE MAXIMUM TURNING RADIUS SHALL BE 25 FT. THE MAXIMUM GRADE SHALL NOT EXCEED 12% GRADE CHANGE. MEASURED TO FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. IFC § 503.2.1.1.
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST FLOOR IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. IFC § 503.3.
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR A 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 HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION.
27. ALL FIRE APPARATUS ACCESS 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 WITH SIGNS AT INTERVALS OF 100 FT. THE DESIGNATED FIRE LANE SHALL BE MARKED ON BOTH SIDES OF AN ACCESS. SIGNAGE SHALL BE REQUIRED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. IFC § 503.3.
28. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. IFC § 503.6.
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEINGS UTILIZED TO DELIVER FIRE FIGHTING PROBLEMS SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION.

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.

3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND AN ADJACENT STREET IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE III RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 718 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPOUND TO, AND OF THE SAME MAKE AND COLOR AS, THE SIGN SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF TRAFFIC SIGN NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 826-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.

14. ANY WORK WITHIN 3

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80) FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80) FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LWWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS LIMIT SHALL BE REPAIRED, REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE, WITH SECTION 623 OF THE USS.

4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE U.S.S.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. 8WG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
8. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TERMINATED, OR IF REMOVAL OF CERTAIN EXISTING FEATURES MAY APPLY, REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITY REFERRED TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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 INCLUDE, BUT ARE NOT LIMITED TO WATER, SEWER, SLOPE 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.
B. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION
3. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099

CAUTION: HIGH PRESSURE GAS

CALL SOUTHWEST GAS AT 702-278-8251 FOR STANDBY WHEN EXCAVATING OVER OR
NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

DATA

1. INDICATED GRADES OTHER THAN TC, FG & GUTTER FL ARE ROUGH GRADES

2. THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATION AND DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLAN WILL RESULT IN QUANTITY CHANGES.
3. SOILS REPORT PREPARED BY: NOVA GEOTECHNICAL & INSPECTION SERVICES 4480 W. HACIENDA AVENUE, SUITE 104, LAS VEGAS, NV 89118, PHONE: 702-873-3478, PROJECT NO.: G-19-026, DATED: JUNE 18, 2020.
4. EARTHWORK QUANTITIES (RAW):
- CUT = 3,500 CUBIC YARDS
 - FILL = 23,600 CUBIC YARDS
- A. THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.
- B. THE ABOVE QUANTITIES DO REFLECT USING NATIVE MATERIAL IN LIEU OF TYPE 1 GRAVEL BASE MATERIAL FOR STREET SECTIONS.
- C. THE ABOVE QUANTITIES DO NOT REFLECT ANY EARTHWORK WHICH MAY BE REQUIRED BY THE ENGINEER TO CONSTRUCT ADDITIONAL PROTECTIVE DITCHES OR BERMS NOT SHOWN ON THESE DRAWINGS.

1. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED PUBLIC ENTITIES, THE PROJECT ENGINEER AND THE CITY OF LAS VEGAS AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE CONTRACT DRAWINGS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER.
3. 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 ISSUE; THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ON-SITE IMPROVEMENTS, CLARK COUNTY AREA 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.
4. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE UTILITY STRUCTURE LOCATION SHOWN IN THE LOCATION SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE COUNTY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL NOT REMOVE TREES, SHRUBS, LAWNS, WALLS, FENCES, SIGNS, STRUCTURES, LIGHTS, OR EXISTING SIDEWALKS, DRIVEWAYS, STAIRS, RAMP, ETC., UNLESS SO ORDERED IN WRITING BY THE CITY OF LAS VEGAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, SIDEWALKS, DRIVEWAYS, STAIRS, RAMP, ETC., AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE REQUIRED BY THE PROJECT ENGINEER.

3. THE CONTRACTOR SHALL BACKFILL AND FINE GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE PROJECT ENGINEER. WHERE EXISTING LAWNS ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS THE CONTRACTOR WILL SOO THE AFFECTED AREA TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
8. THE 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 PER CONTRACT DRAWINGS.
9. 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.
10. THE ACTUAL LOCATIONS OF SAW CUT LINES, LIMITS OF COLD MILLING, LIMITS OF DRIVEWAY TRANSITIONS, AND LANDSCAPE REPAIR SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT PROJECT REPRESENTATIVE.
11. THE ACTUAL LIMITS OF EXISTING OPEN GRADE REMOVAL AND UDACS APPLICATION SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT PROJECT REPRESENTATIVE.
12. ALL STANDARD DRAWINGS REFERENCED IN THIS SET ARE BASED ON THE CURRENT "UNIFORM STANDARD DRAWINGS REVISION SET II-1997 RELEASE".
13. UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL WATER SERVICES AND METERS WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS.
14. THE CONTRACTOR SHALL MAINTAIN AN ONGOING REMOVAL PROCESS OF ALL SPILLAGE OF EXCAVATION MATERIAL ON THE STREET.
15. CURB AND GUTTER OF A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. CURB AND GUTTER SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
16. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, EXISTING CONDITIONS AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC AND PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
17. REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES, AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES FAR ENOUGH IN ADVANCE SO AS TO NOT IMPACT THE SCHEDULE.
18. COX COMMUNICATIONS SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL CATV FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS, UNLESS NOTED OTHERWISE.
19. NV ENERGY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND OR OVERHEAD POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
20. EMBARQ SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL TELEPHONE FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON CONTRACT DRAWINGS, UNLESS NOTED OTHERWISE.

LVVWD PROJECT #137065
(REVISED 01/01/2017)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVMO. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVMO COMMUNICATION SUPPORT CENTER 258-7117 TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVMO INSPECTION. **WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.**
2. ALL WORK SHALL CONFORM TO LVVMO STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). **THE LATEST EDITION OF UDACS SHALL SUPERCEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.**
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVMO.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVMO APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVMO DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVMO CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802 TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01 AND APPROVED BY THE LVVMO INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS MUST BE AS LISTED ON THE LVVMO PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED FOR THESE PLANS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT 1-800-227-2600 OR 811.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARD, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVMO TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

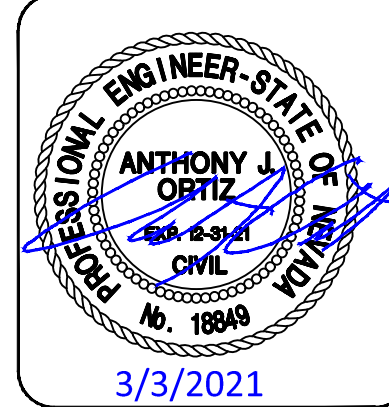
ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE CITY OF LIVINGSTON. DECORATIVE PAVING MATERIALS ARE NOT TO BE USED WITHIN THE EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVMD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVMD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVMD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVMD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

**NO LEAD COMPLIANCE NOTE: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER W
BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE
LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.**

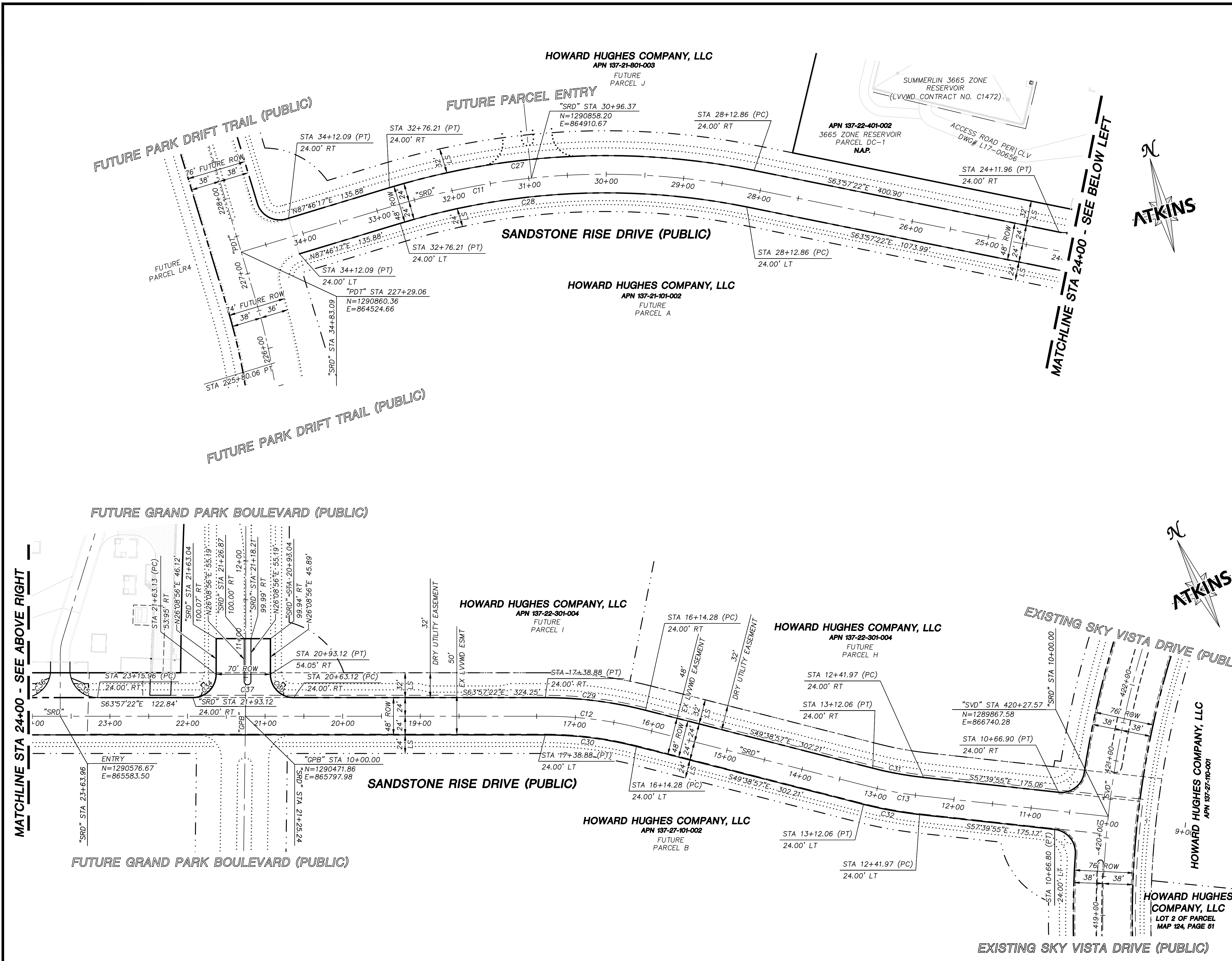
LAS VEGAS VALLEY WATER DISTRICT
PLANNING AND ENGINEERING SERVICES

PROJECT NO. 137065 FIRST APPROVED DATE:

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL



DESIGNED BY: 107Y5132 L20-00453		SUMMERLIN VILLAGE 25 SANDSTONE RISE DRIVE (STREET M) SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)		 SUMMERLIN®		 2270 Corporate Circle Suite 200 Henderson, Nevada 89074 Telephone: +1702.263.7275 Fax: +1702.263.7200		REV. DESCRIPTION BY DATE APPROVAL	
DATE: MARCH, 2021		CHECKED BY:		HORIZ.: NONE VERT.: NONE		GENERAL NOTES			
DRAWING NO. 3/32									



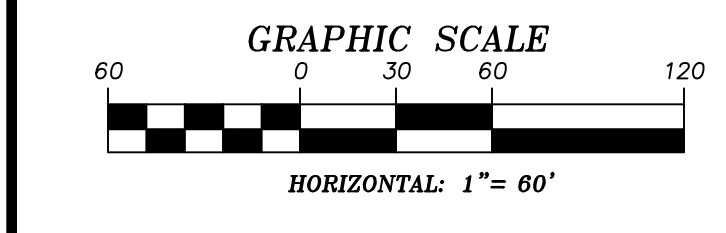
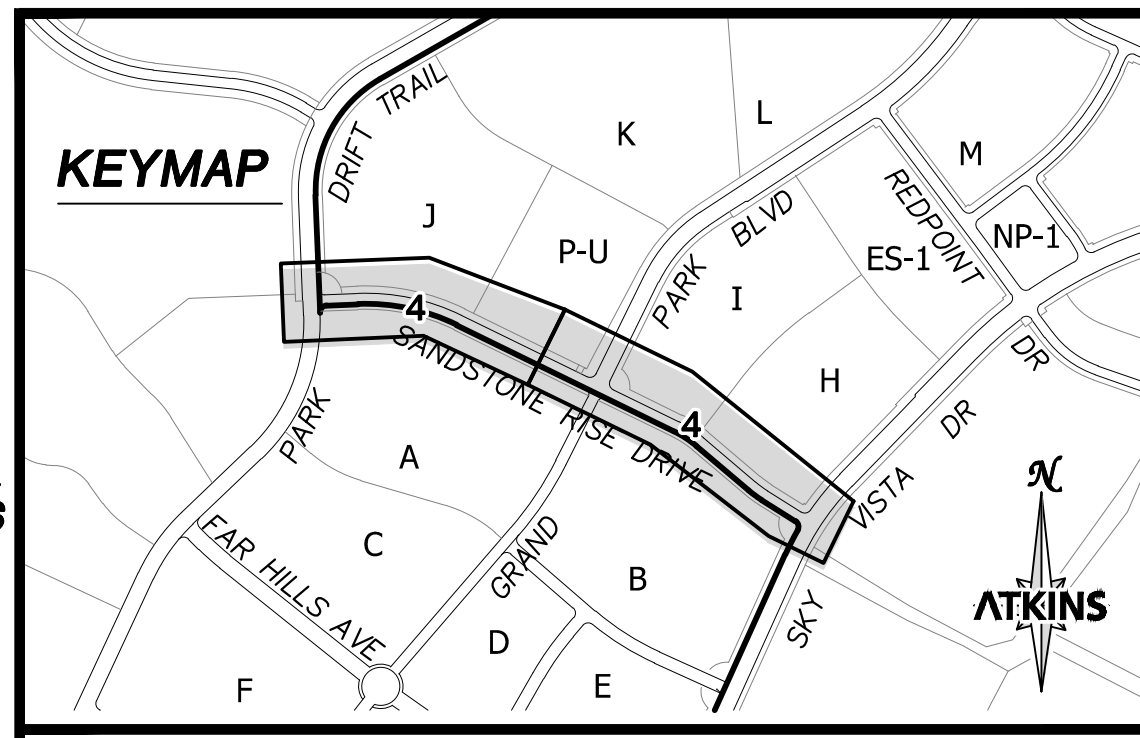
SUMMARY OF QUANTITIES		
DESCRIPTION	QUANTITY	UNIT
ROADWAY		
CURB & GUTTER (TYPE "L")	4762	LF
CURB & GUTTER (TYPE "A")	124	LF
TYPE II GRAVEL BASE	1335	CY
3" ASPHALTIC CONCRETE PAVING	12019	SY
CURB RAMP	4	EA

- ROADWAY NOTES**
- SEE SHEET 27 FOR TYPICAL SECTIONS, DETAILS
 - SEE SHEET 2 FOR ROADWAY ALIGNMENT ABBREVIATIONS

CENTERLINE CURVE TABLE				
NO.	RADIUS	DELTA	LENGTH	TANGENT
C11	939.00'	28°16'21"	463.35'	236.49'
C12	499.00'	14°18'25"	124.60'	62.63'
C13	501.00'	8°00'59"	70.10'	35.11'

BACK OF CURB CURVE TABLE				
NO.	RADIUS	DELTA	LENGTH	TANGENT
C27	963.00'	28°16'21"	475.19'	242.54'
C28	915.00'	28°16'21"	451.51'	230.45'
C29	523.00'	14°18'25"	130.60'	65.64'
C30	475.00'	14°18'25"	118.61'	59.61'
C31	477.00'	8°00'59"	66.74'	33.42'
C32	525.00'	8°00'59"	73.45'	36.79'
C33	30.00'	90°06'17"	47.18'	30.05'
C34	30.00'	89°53'43"	47.07'	29.95'
C35	35.50'	90°00'01"	55.76'	35.50'
C36	35.50'	90°00'01"	55.76'	35.50'
C37	4.33'	180°00'00"	13.60'	INFINITY'

EXISTING SKY VISTA DRIVE:
PER VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS CLV# 107V7884



BASIS OF BEARING
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.

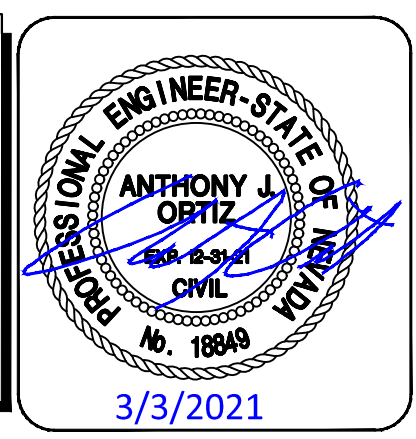
BENCHMARK
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008) NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET) FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S,R59E,S03

FAST
Call before you Dig
UnderGround
1-702-432-5300
EMERGENCY AND UTILITIES SERVICE OF TRANSPORTATION

Call before you Dig
Call 811
1-800-642-2444

APPROXIMATE OVERHEAD POWER LINES (10' CIRCLES)
CALL BEFORE YOU DIG
1-702-227-2929

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS 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 LOCATION.



ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7755
Fax: +1702.263.7200

SUMMERLIN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)

HORIZONTAL CONTROL PLAN

DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO. 4/32
JOB NO. 100063656

REVISIONS
DESCRIPTION
REV. DATE APPROVAL

PROJECT: Summerlin Village 25\100063656 - V25 Street M (Lake Mead to Sky Vista)\Sheets\63656-04-HORIZ-HI.dwg LAYOUT: 4 Mar 04, 2021 - 12:53PM

EXISTING ROUGH GRADING:
PER
VILLAGE 30A ROUGH GRADE
CLV NO. L20-00015

FUTURE PARK DRIFT TRAIL
(PUBLIC)

FUTURE PARCEL ENTRY

HOWARD HUGHES COMPANY, LLC
APN 137-21-801-003
FUTURE
PARCEL J

APN 137-22-401-002
3665 ZONE RESERVOIR
PARCEL DC-1
NAP.

SUMMERLIN 3665 ZONE
RESERVOIR
(LEVWD CONTRACT NO. C1472)

ACCESS ROAD PER CLV
DWG# L17-00636

SANDSTONE RISE DRIVE (PUBLIC)
HOWARD HUGHES COMPANY, LLC
APN 137-21-101-002
FUTURE
PARCEL A

MATCHLINE STA 24+00 - SEE BELOW LEFT



FUTURE PARK DRIFT TRAIL (PUBLIC)

SUMMARY OF QUANTITIES

DESCRIPTION	QUANTITY	UNIT
STORM DRAIN		
24" RCP	49	LF
24" PVC	90	LF
30" RCP	71	LF
36" RCP	997	LF
48" RCP	1059	LF
SD MANHOLE	14	EA
2" BEEHIVE INLET	1	EA
5.5' TYPE CM DROP INLET	4	EA
11.5' TYPE CM DROP INLET	2	EA
14.5' TYPE CM DROP INLET	2	EA

MASTER PLAN NOTE

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY.
IT IS AN OVERALL REPRESENTATION OF THE UTILITY
FOR REVIEW AND COORDINATION WITH OTHER
PROJECT DETAILS WITHIN THIS PLAN SET.

STORM DRAIN NOTES

- SEE ROADWAY GRADING PLAN AND ROADWAY
PLAN AND PROFILE SHEETS FOR
CONSTRUCTION NOTES AND INFORMATION
RELATED TO PIPE SIZE (INNER DIAMETER),
MANHOLE BASE SIZE (INSIDE DIMENSIONS),
AND DROP INLET LENGTHS (CURB OPENING).
- ALL STORM DRAIN MATERIAL TO BE CLASS III
REINFORCED CONCRETE PIPE, UNLESS
OTHERWISE NOTED IN PROFILES.
- CONTRACTOR TO PROVIDE 6" MINIMUM OF
CLEARANCE BETWEEN OUTSIDE OF PIPE TO
OUTSIDE WALL OF STORM DRAIN STRUCTURES.

FUTURE GRAND PARK BOULEVARD (PUBLIC)

MATCHLINE STA 24+00 - SEE ABOVE RIGHT

HOWARD HUGHES COMPANY, LLC
APN 137-22-301-004
FUTURE
PARCEL I

HOWARD HUGHES COMPANY, LLC
APN 137-22-301-004
FUTURE
PARCEL H

EXISTING SKY VISTA DRIVE (PUBLIC)

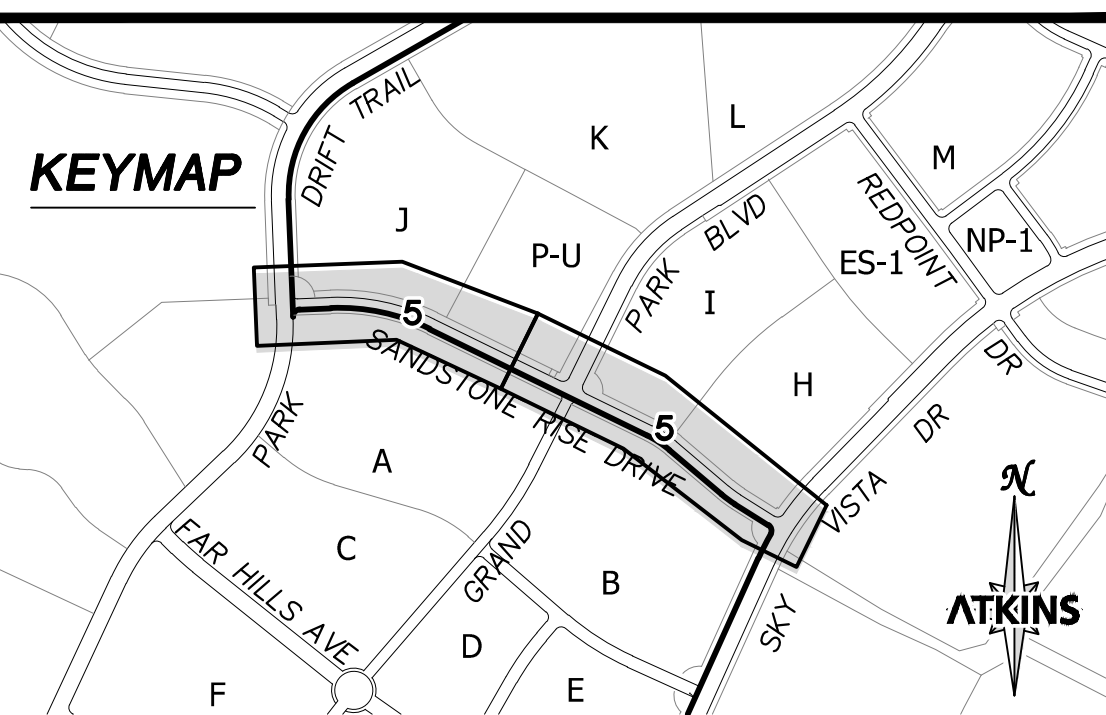


SANDSTONE RISE DRIVE (PUBLIC)

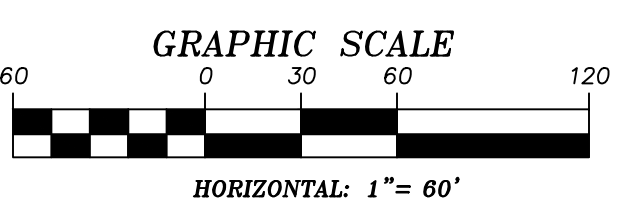
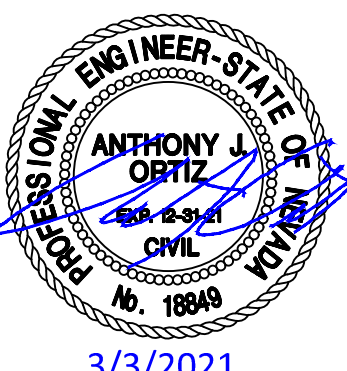
HOWARD HUGHES COMPANY, LLC
APN 137-27-101-002
FUTURE
PARCEL B

HOWARD HUGHES COMPANY, LLC
APN 137-27-101-001
FUTURE
PARCEL C

EXISTING SKY VISTA DRIVE:
PER
VILLAGE 25 SKY VISTA DRIVE
IMPROVEMENTS
CLV# 107V7884



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SHOWN IN THEIR PROPER LOCATION.



SOILS REPORT

BY NOVA GEOTECHNICAL
PROJECT NO. G-19-026
DATED MAY 9, 2019
EARTHWORK QUANTITIES (RAW):
CUT= 3,500 CU YDS
FILL= 23,600 CU YDS

GRADING PLAN CERTIFICATION

ANTHONY ORTIZ PE#18849 DATE
CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED
DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR
THIS PROJECT.
DS#5221

BASIS OF BEARING

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.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK:
D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS
(3,246.63 FEET)
FND USC&GS DISC SET IN ROCK
RIDGE 150' SOUTH OF CHARLESTON
BLVD. & WEST OF DETENTION BASIN.
T21S,R59E,S03



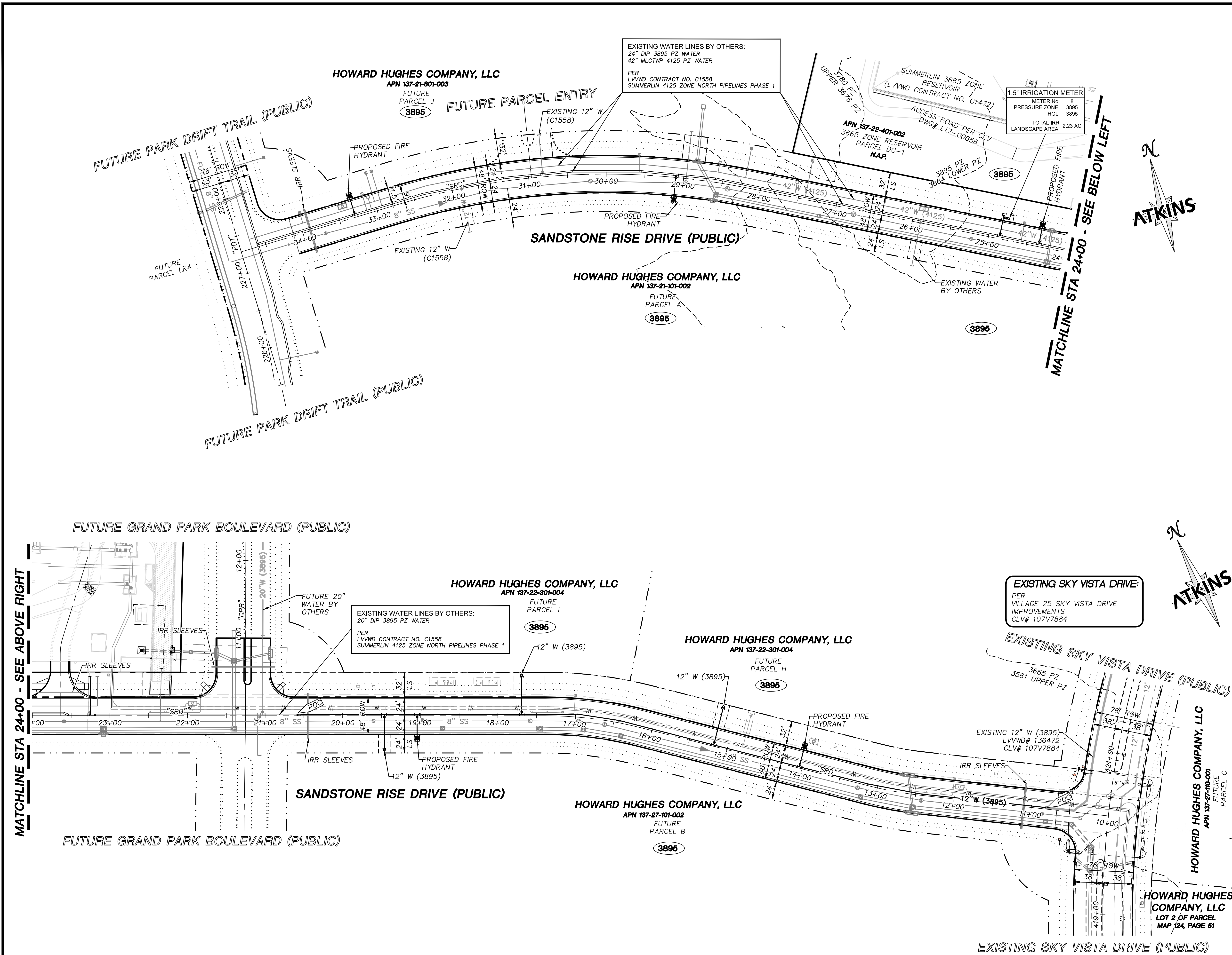
REVISIONS
DESCRIPTION
REV.

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7755
Fax: +1702.263.7200

SUMMERLIN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)

DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO. 5/32
JOB NO. 100063656



SUMMARY OF QUANTITIES

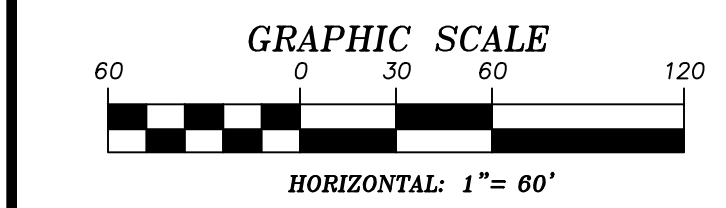
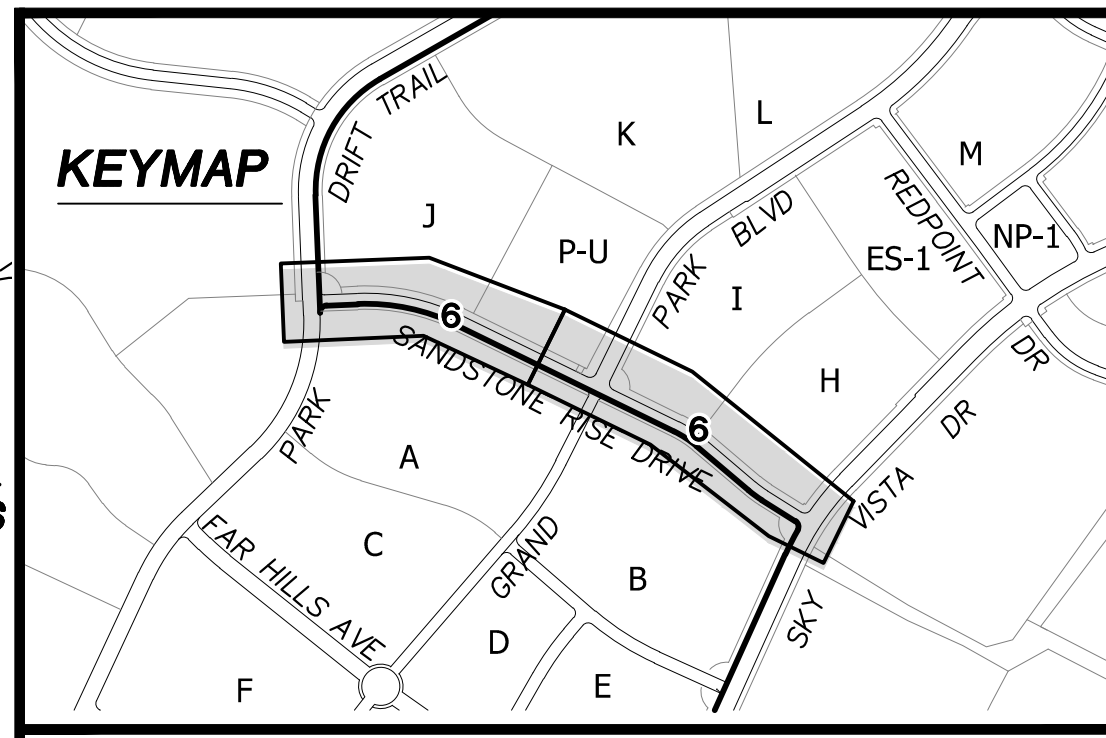
DESCRIPTION	QUANTITY	UNIT
WATER		
12" DIP WATER MAIN	1,123	LF
6" DIP WATER MAIN	106	LF
12" GATE VALVE	3	EA
IRRIGATION SLEEVES	373	LF
WATER SERVICE TO LOTS	1	EA
FIRE HYDRANT	5	EA
1.5" METER AND RPPA	1	EA

MASTER PLAN NOTE

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WATER NOTES

- SEE ROADWAY PLAN AND PROFILE SHEETS FOR CONSTRUCTION NOTES AND INFORMATION RELATED TO PIPE SIZE, LENGTH, AND SIZE OF FITTINGS.
- ALL WATER PIPE MATERIAL TO BE WATER QUALITY RATED AWWA C-900, UNLESS OTHERWISE NOTED IN PROFILES.
- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE #15.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- THRUST BLOCKS WILL BE PROVIDED AT EVERY CHANGE IN DIRECTION PER UDACS PLATES #30 & #31.
- IRRIGATION METER NUMBERING PER SUMMERLIN VILLAGE 25 IRRIGATION MASTER PLAN BY SMP ENVIRONMENTAL DESIGN DATED 5/1/19.
- ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
- 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 TO LVVWD STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.
- ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCES / WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.
- MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 137065 FIRST APPROVED DATE: _____

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

BASIS OF BEARING

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.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008) NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET) FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S,R59E,S03

FAST

Call before you Dig

UnderGround

1-702-432-5300

1-800-642-2444

Call before you Dig

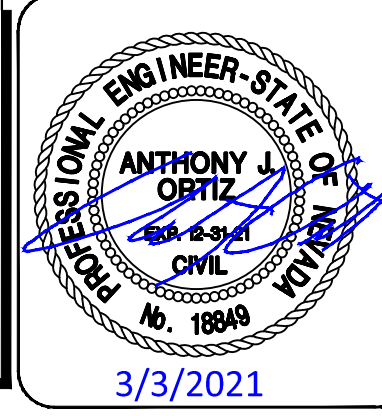
811

1-800-642-2444

CALL BEFORE YOU DIG

1-702-227-2929

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SUMMERLIN

SUMMERLIN VILLAGE 25

SANDSTONE RISE DRIVE (STREET M)

SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)

MASTER WATER PLAN

DESIGNED BY: G. BLAKE

DRAWN BY: G. BLAKE

CHECKED BY: G. BLAKE

DATE: MARCH, 2021

DRAWING NO. 6/32

3/3/2021

107/5132

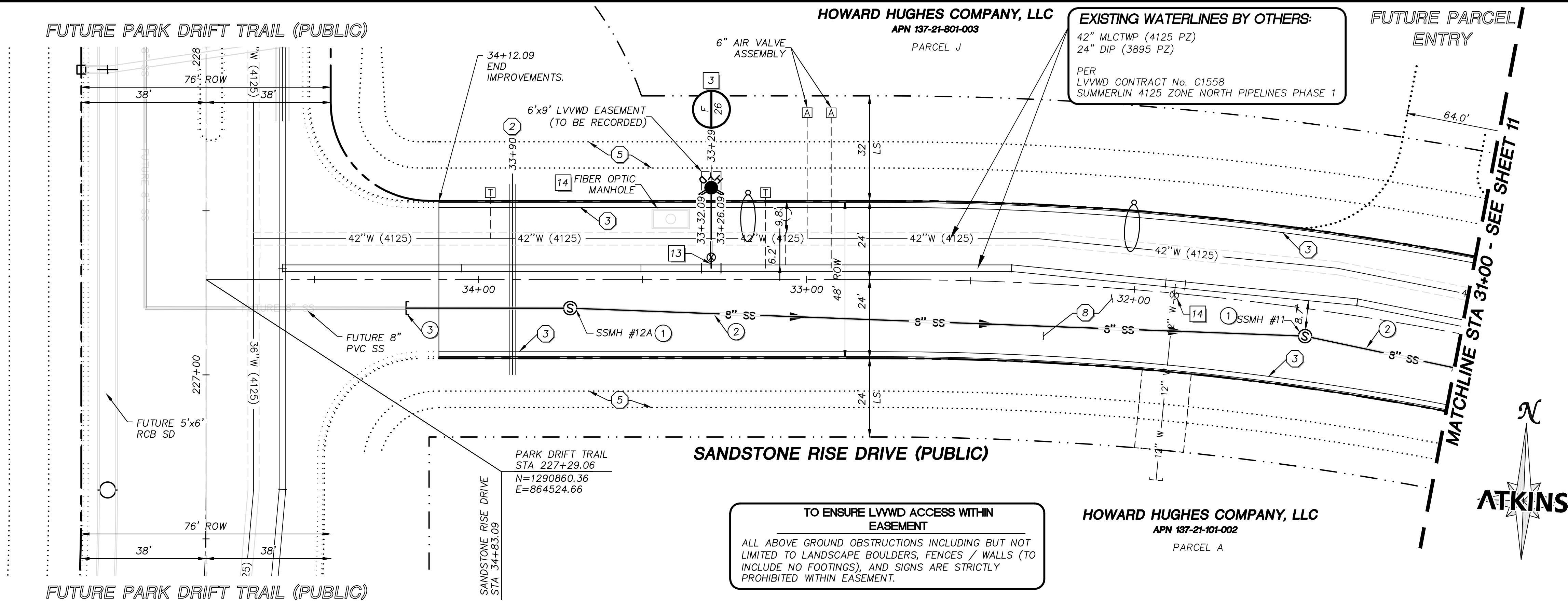
L20-00453

DATE: MARCH, 2021

DRAWING NO. 6/32

JOB NO. 100063656





STORM DRAIN CONSTRUCTION NOTES

1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN.
3. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET.
4. INSTALL 60" TYPE I SD MANHOLE PER CCAUSD #403.
5. INSTALL 48" TYPE II SD MANHOLE PER CCAUSD #405.2.
6. INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406.
7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL.
8. DEEP DROP INLET PER DETAIL "C" SHEET 29.

SEWER CONSTRUCTION NOTES

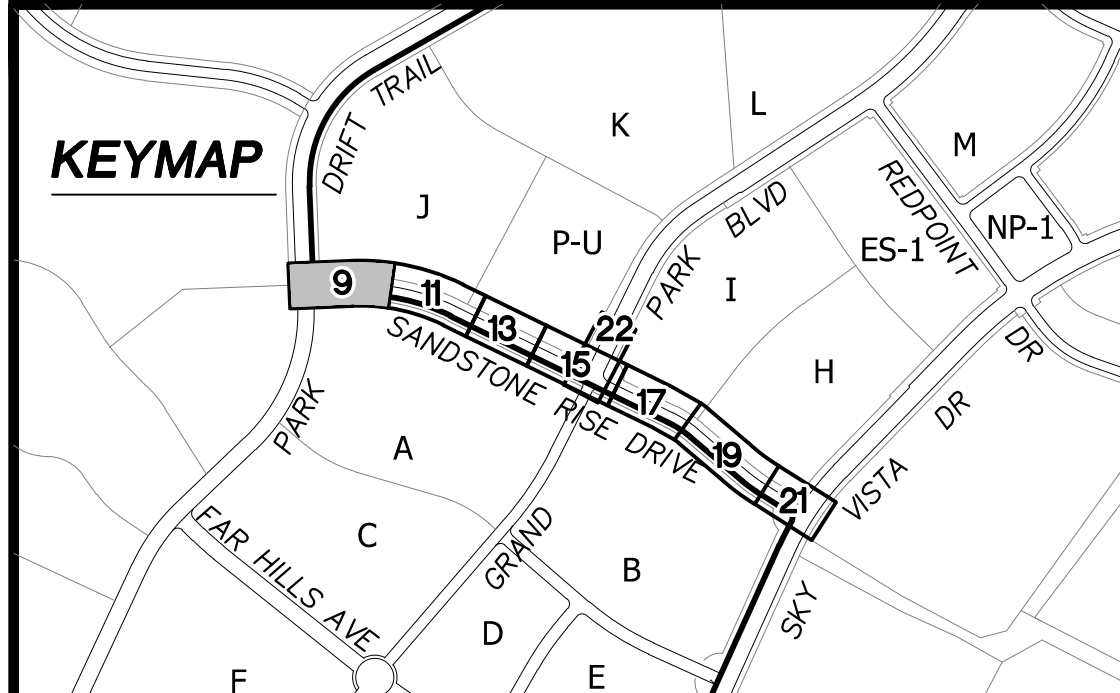
1. INSTALL SEWER MANHOLE WITH WATER TIGHT JOINTS PER DCSWCS SD-1, SD-3, SD-4 AND SD-5 WITH SINGLE 24" LID. SIZE PER PLAN.
2. INSTALL PVC C-900 SEWER MAIN PER DCSWCS SD-17 & SD-15 (PUBLIC). SIZE PER PLAN.
3. STUB AND CAP SEWER PIPE. INSTALL THRUST BLOCK (1 CUBIC FT. MINIMUM).
4. INSTALL 6" LATERAL PER DCSWCS SD-22, SD-23 AND SD-25.

WATERLINE CONSTRUCTION NOTES

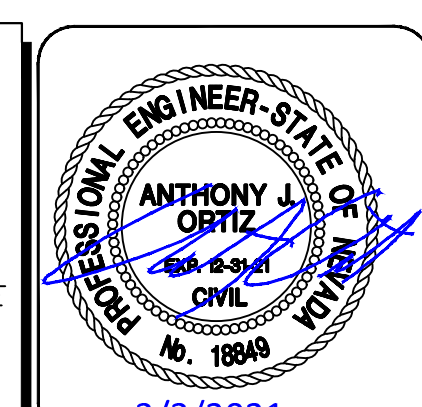
1. INSTALL WATER MAIN WITH MARKER BALLS PER UDACS PLATES #15, #17 AND #19.
2. INSTALL GATE VALVE PER UDACS PLATES #30 AND #39.
3. INSTALL FIRE HYDRANT WITH APPURTENANCES (CONCRETE PAD, LATERAL, VALVE, AND TEE) PER UDACS PLATE #30, #31, #39, #40 AND DETAIL "C" ON SHEET 28.
4. INSTALL CAP AND 2" MANUAL BLOWOFF ASSEMBLY PER UDACS PLATE #36.
5. INSTALL TEE W/ VALVE AND LATERAL PER UDACS PLATES #17, #19, #30, #31 AND #39.
6. INSTALL 5" BEND PER UDACS PLATE #31.
7. INSTALL 11.25" BEND PER UDACS PLATE #31.
8. INSTALL 1.5" WATER METER AND RPPA PER UDACS PLATES #4 AND #8 AND DETAIL ON SHEET 30.
9. INSTALL IN-LINE REDUCER PER UDACS PLATE #30.
10. REMOVE CAP AND 2" BLOWOFF AND CONNECT TO EXISTING WATERLINE.
11. EXISTING WATER LINE BY OTHERS.
12. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03.
13. CONNECT TO EXISTING BLIND FLANGE.
14. ADJUST EXISTING FACILITY TO GRADE PER UDACS.
15. INSTALL 45" VERTICAL BEND PER UDACS PLATE #31.

ROADWAY CONSTRUCTION NOTES

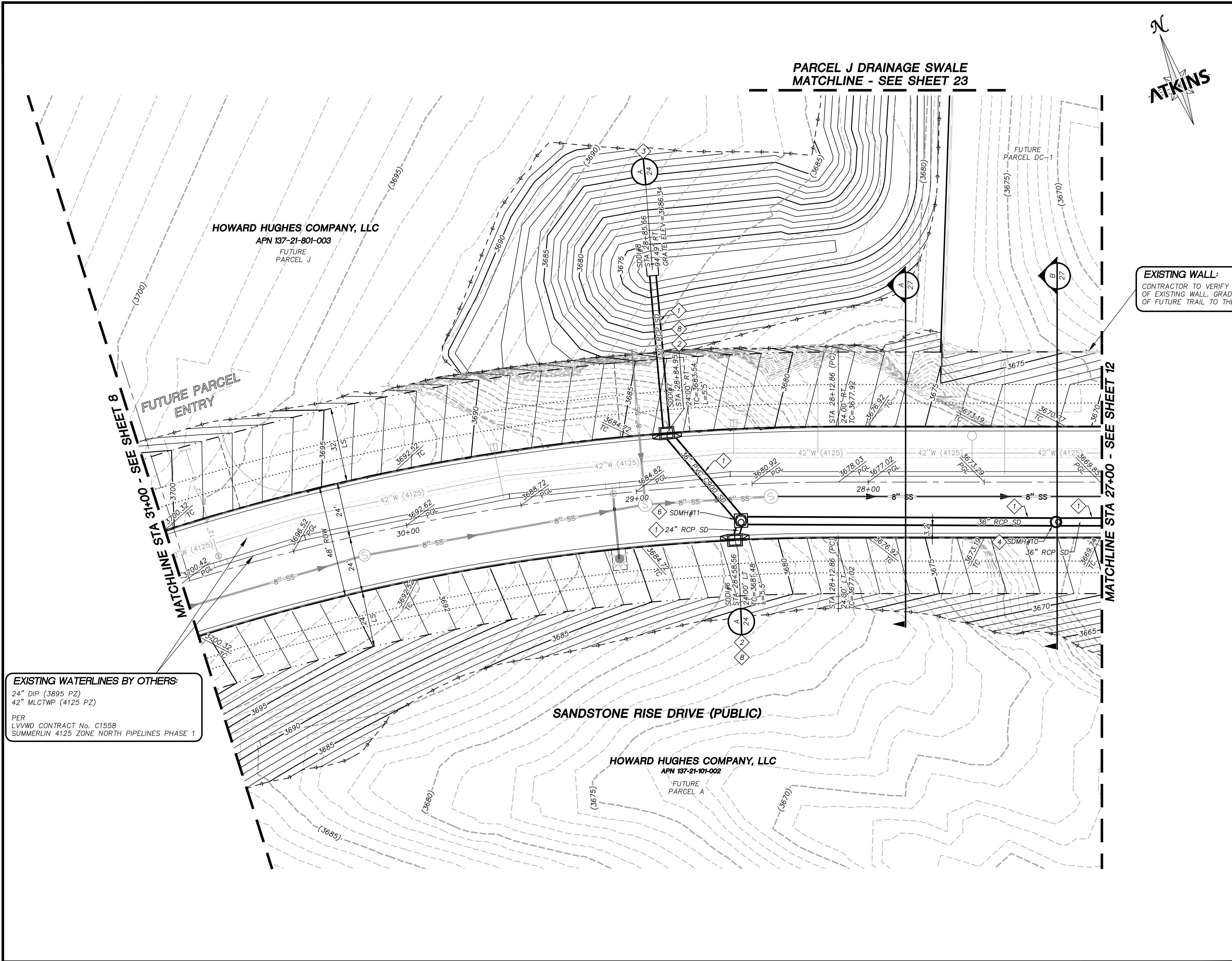
1. SAWCUT AND MATCH EXISTING.
2. INSTALL IRRIGATION SLEEVES PER DETAIL "E" SHEET 28.
3. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216.
4. CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219.
5. FUTURE SIDEWALK BY OTHERS.
6. CONSTRUCT COMMERCIAL DRIVEWAY PER CCASUD #222.1.
7. CONSTRUCT SIDEWALK RAMP, PER DETAIL "A", SHEET 28.
8. CONSTRUCT PLANTMIX BITUMINOUS SURFACE OVER TYPE II AGGREGATE BASE PER SOILS REPORT. SEE SHEET 27 FOR TYPICAL PAVEMENT SECTION.
9. CONSTRUCT SIDEWALK RAMP CASE II PER CCAUSD #235 AND DETAIL "B", SHEET 28.



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DESIGNED BY: L20-00453 DRAWN BY: G. BLAKE CHECKED BY: T. ORIZ HORIZ.: 1"=20' VERT.: 1"=5'		SUMMERLIN VILLAGE 26 SANDSTONE RISE DRIVE (STREET M) SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K) SANDSTONE RISE DRIVE PLAN AND PROFILE STA 31+00 TO END		 SUMMERLIN®		 2270 Corporate Circle, Suite 200 Henderson, Nevada 89074 Telephone: +1702.263.7275 Fax: +1702.263.7200		<table><thead><tr><th colspan="4">REVISIONS</th></tr><tr><th>REV.</th><th>DESCRIPTION</th><th>BY</th><th>DATE</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>		REVISIONS				REV.	DESCRIPTION	BY	DATE																																				
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10715132		9/32																																																			



STORM DRAIN CONSTRUCTION NOTES

1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
3. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET
4. INSTALL 60" TYPE I SD MANHOLE PER CCAUSD #403
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6. INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406
7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
8. DEEP DROP INLET PER DETAIL "C" SHEET 29.

DEPTH OF COVER DURING CONSTRUCTION

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

EXISTING LVVWD FACILITIES

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

ATKINS

SUMMERLIN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE GRADING PLAN
STA 27+00 TO STA 31+00

DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO. 10/32
VERT.: NONE

UTILITY LOCATIONS SHOWN HEREON 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 LOCATION.

FAST
Call before you Dig
811
1-800-642-2444

CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

SOILS REPORT
BY: NOVA GEOTECHNICAL
PROJECT NO. G-19-026
DATED: MAY 9, 2019
EARTHWORK QUANTITIES (RAW):
CUT= 3,500 CU YDS
FILL= 23,600 CU YDS

GRADING PLAN CERTIFICATION
ANTHONY ORTIZ PE# 18849 DATE
CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.
DRAINAGE STUDY NO.: 5221

BASIS OF BEARING
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.

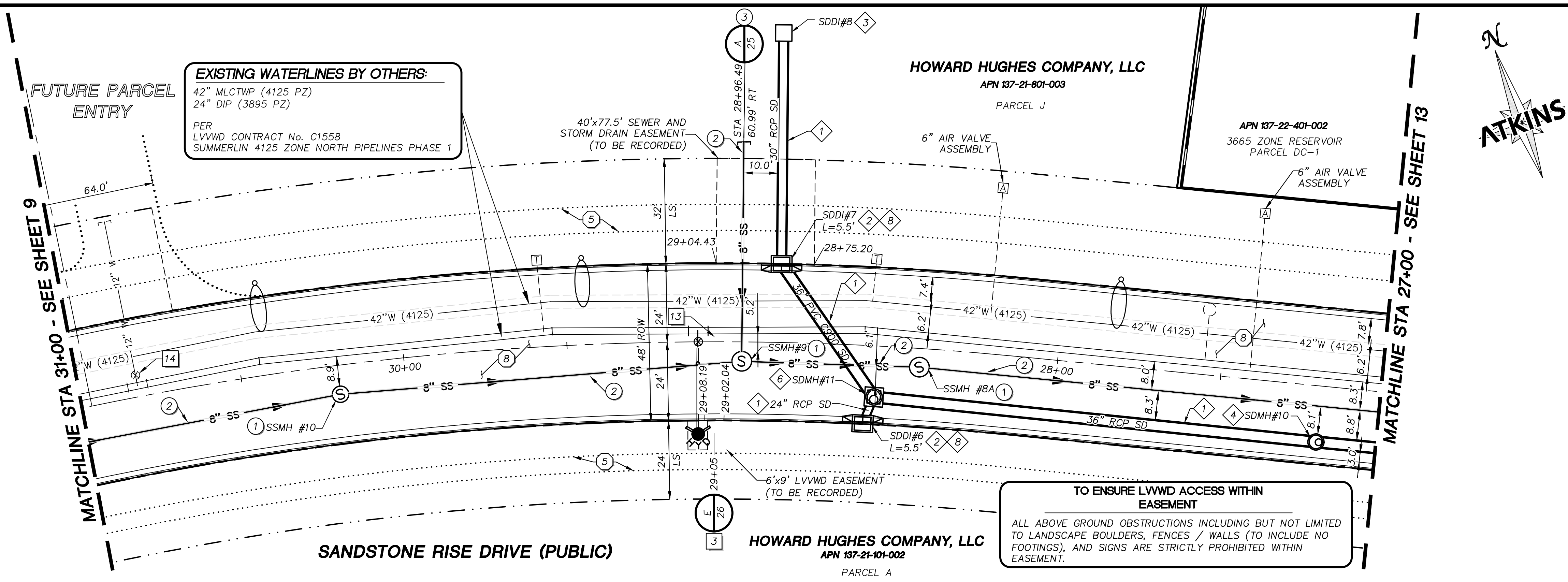
BENCHMARK
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET)
FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S,R59E,S03

KEYMAP

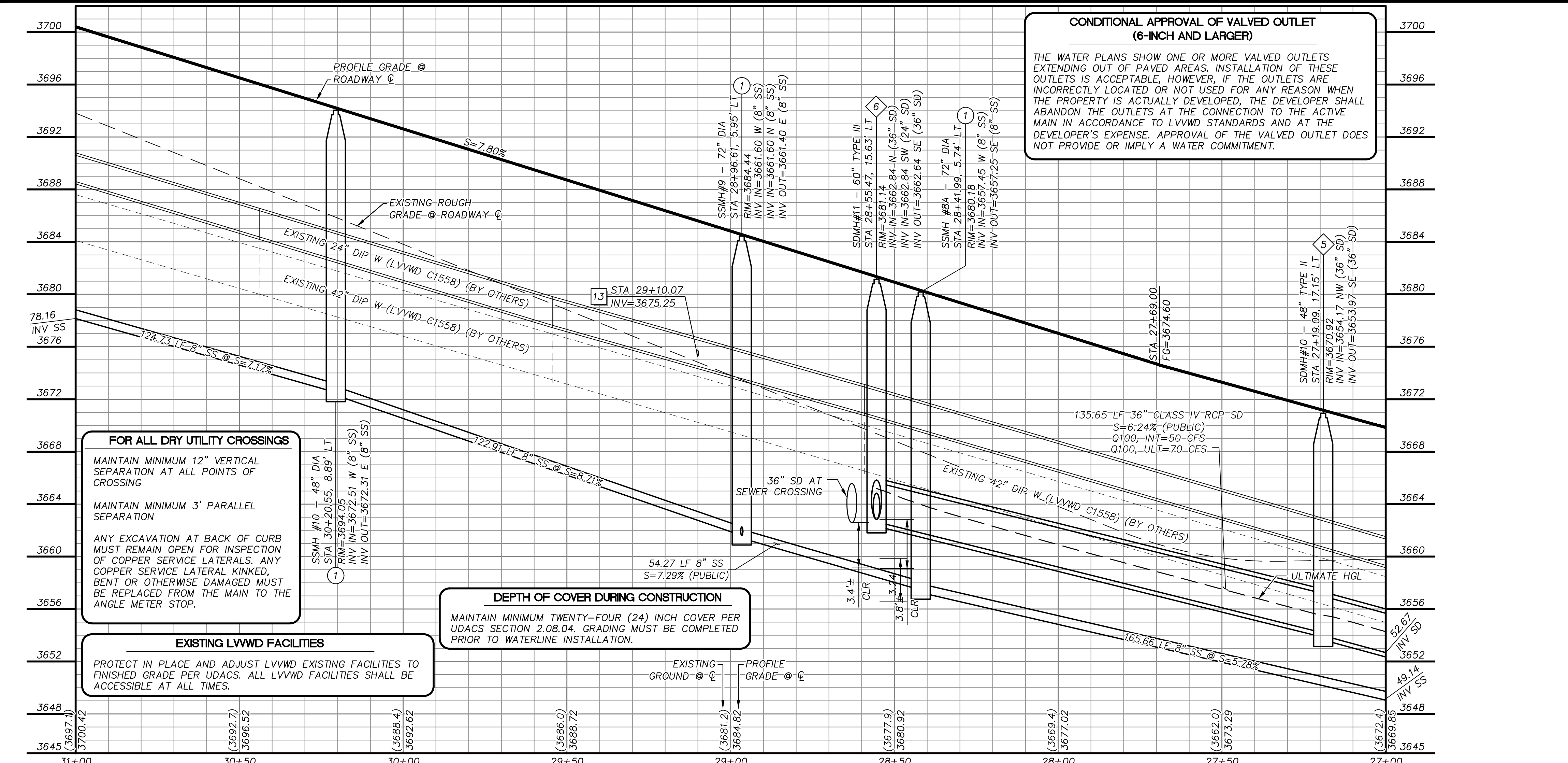
GRAPHIC SCALE
0 10 20 40
HORIZONTAL: 1"= 20'

3/3/2021

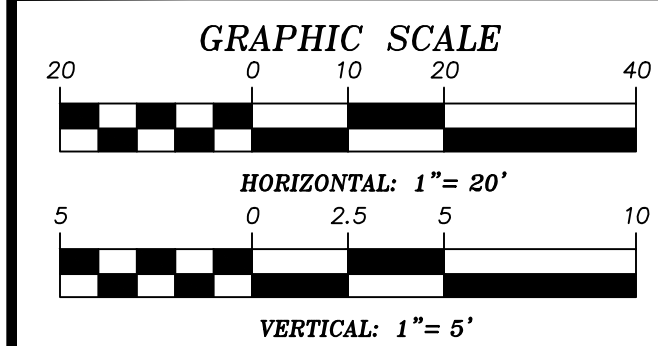
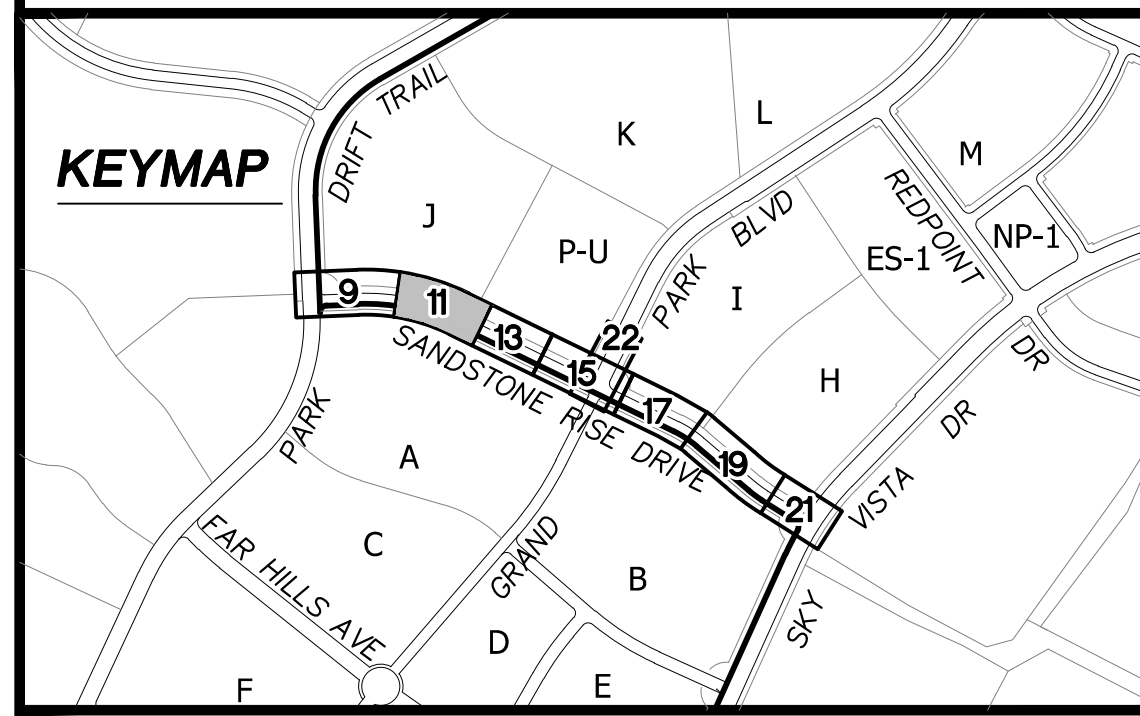
JOB NO. 100063656



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 8. DEEP DROP INLET PER DETAIL "C" SHEET 29.
- ### SEWER CONSTRUCTION NOTES
1. INSTALL SEWER MANHOLE WITH WATER TIGHT JOINTS PER DCSWCS SD-1, SD-3, SD-4 AND SD-5 WITH SINGLE 24" LID. SIZE PER PLAN.
 2. INSTALL PVC C-900 SEWER MAIN PER DCSWCS SD-17 & SD-15 (PUBLIC). SIZE PER PLAN.
 3. STUB AND CAP SEWER PIPE. INSTALL THRUST BLOCK (1 CUBIC FT. MINIMUM).
 4. INSTALL 6" LATERAL PER DCSWCS SD-22, SD-23 AND SD-25
- ### WATERLINE CONSTRUCTION NOTES
1. INSTALL WATER MAIN WITH MARKER BALLS PER UDACS PLATES #15, #17 AND #19
 2. INSTALL GATE VALVE PER UDACS PLATES #30 AND #39
 3. INSTALL FIRE HYDRANT WITH APPURTENANCES (CONCRETE PAD, LATERAL, VALVE, AND TEE) PER UDACS PLATE #30, #31, #39, #40 AND DETAIL "C" ON SHEET 28
 4. INSTALL CAP AND 2" MANUAL BLOWOFF ASSEMBLY PER UDACS PLATE #36
 5. INSTALL TEE W/ VALVE AND LATERAL PER UDACS PLATES #17, #19, #30, #31 AND #39
 6. INSTALL 5" BEND PER UDACS PLATE #31
 7. INSTALL 11.25" BEND PER UDACS PLATE #31
 8. INSTALL 1.5" WATER METER AND RPPA PER UDACS PLATES #4 AND #8 AND DETAIL ON SHEET 30
 9. INSTALL IN-LINE REDUCER PER UDACS PLATE #30
 10. REMOVE CAP AND 2" BLOWOFF AND CONNECT TO EXISTING WATERLINE
 11. EXISTING WATER LINE BY OTHERS
 12. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03
 13. CONNECT TO EXISTING BLIND FLANGE
 14. ADJUST EXISTING FACILITY TO GRADE PER UDACS
 15. INSTALL 45° VERTICAL BEND PER UDACS PLATE #31



- ### ROADWAY CONSTRUCTION NOTES
1. SAWCUT AND MATCH EXISTING
 2. INSTALL IRRIGATION SLEEVES PER DETAIL "E" SHEET 28
 3. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
 4. CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
 5. FUTURE SIDEWALK BY OTHERS
 6. CONSTRUCT COMMERCIAL DRIVEWAY PER CCASUD #222.1
 7. CONSTRUCT SIDEWALK RAMP, PER DETAIL "A", SHEET 28
 8. CONSTRUCT PLANTMIX BITUMINOUS SURFACE OVER TYPE II AGGREGATE BASE PER SOILS REPORT. SEE SHEET 27 FOR TYPICAL PAVEMENT SECTION.
 9. CONSTRUCT SIDEWALK RAMP CASE II PER CCAUSD #235 AND DETAIL "B", SHEET 28



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 137065 FIRST APPROVED DATE: _____

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

GRADING PLAN CERTIFICATION

ANTHONY ORTIZ PE# 18849 DATE _____

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

DRAINAGE STUDY NO.: 5221

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3/3/2021

DESIGNED BY: G. BLAKE	107/5132
DRAWN BY: G. BLAKE	L20-00453
CHECKED BY: G. BLAKE	DATE: MARCH, 2021
DATE: MARCH, 2021	DRAWING NO. 11/32

JOB NO. 100063656

2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7275
Fax: +1702.263.7200

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE PLAN AND PROFILE
STA 27+00 TO STA 31+00

Project: Summerlin Village 25\100063656 - V25 Street M (Lake Mead to Sky Vista)\Sheets\3656-10-PLAN-P1.dwg (A)OUT- 11 Mar 04, 2021 - 4:14PM

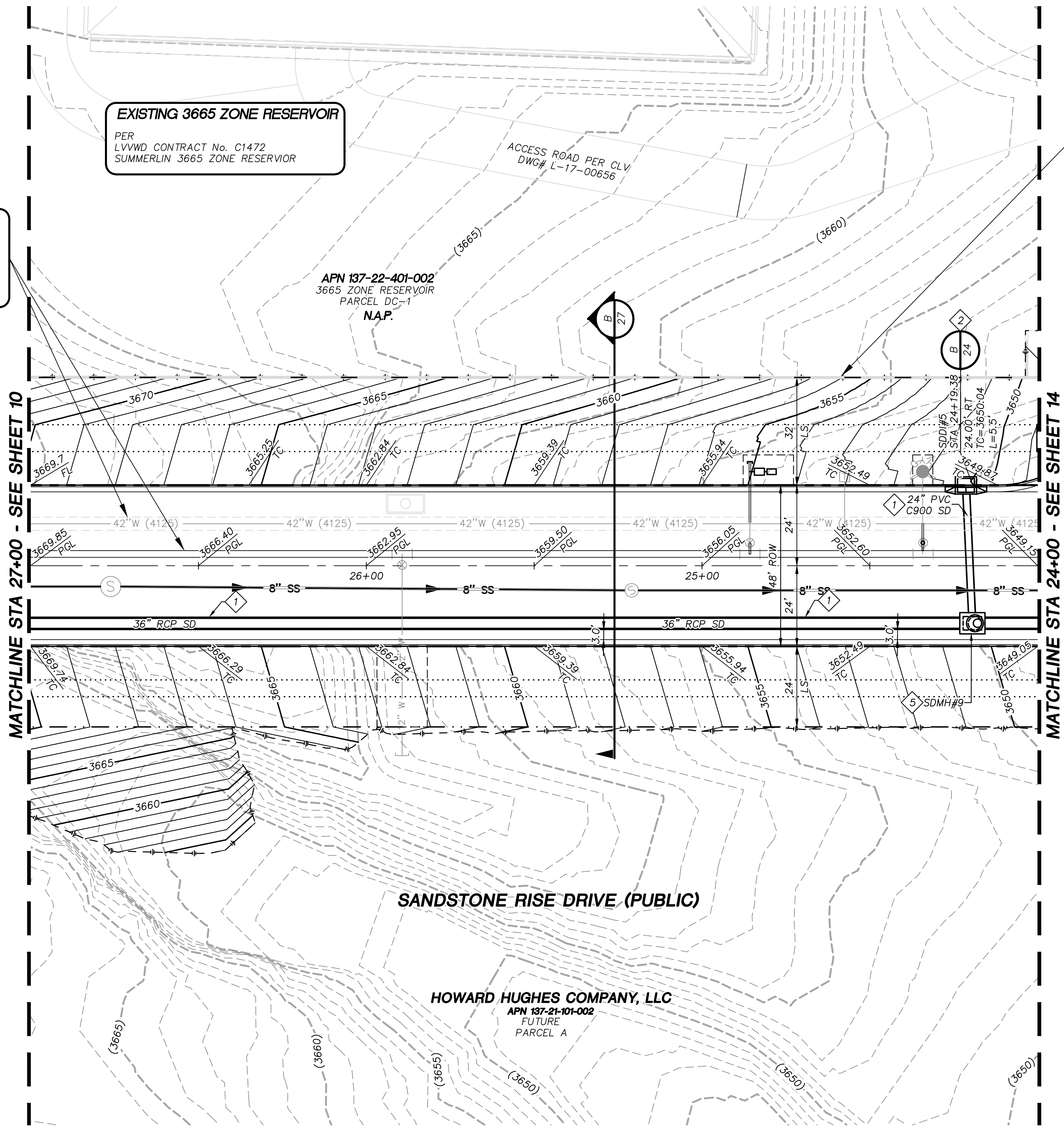


EXISTING WATERLINES BY OTHERS:
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42" MLCTWP (4125 PZ)

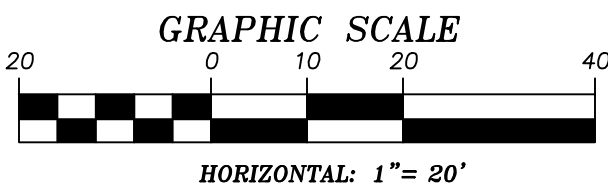
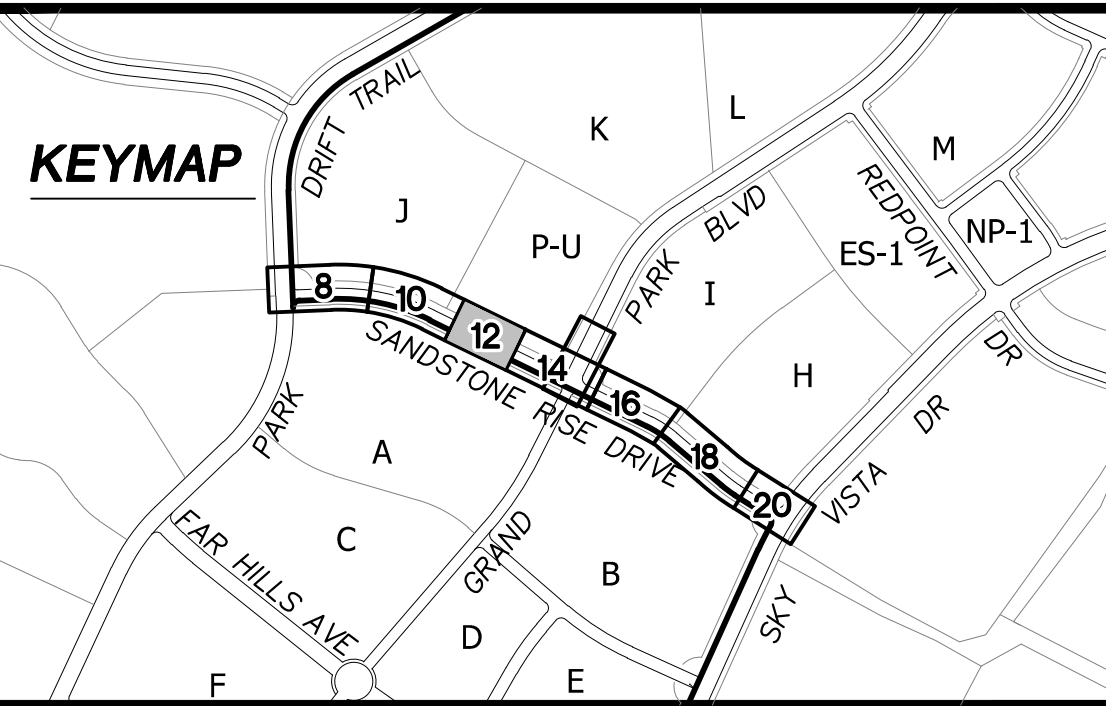
PER
LVVWD CONTRACT No. C1558
SUMMERLIN 4125 ZONE NORTH PIPELINES PHASE 1

EXISTING 3665 ZONE RESERVOIR
PER
LVVWD CONTRACT No. C1472
SUMMERLIN 3665 ZONE RESERVOIR

EXISTING WALL:
CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WALL. GRADE LANDSCAPE AT 3:1 MAX FROM BACK OF FUTURE TRAIL TO THE EXISTING WALL.



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SOILS REPORT
BY: NOVA GEOTECHNICAL
PROJECT NO.: G-19-026
DATED: MAY 9, 2019
EARTHWORK QUANTITIES (RAW):
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FILL= 23,600 CU YDS

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ANTHONY ORTIZ PE# 18849 DATE _____

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ANTHONY ORTIZ
PE
CIVIL
No. 18849
3/3/2021

DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO.: 12/32
VERT.: NONE

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7275
Fax: +1702.263.7200

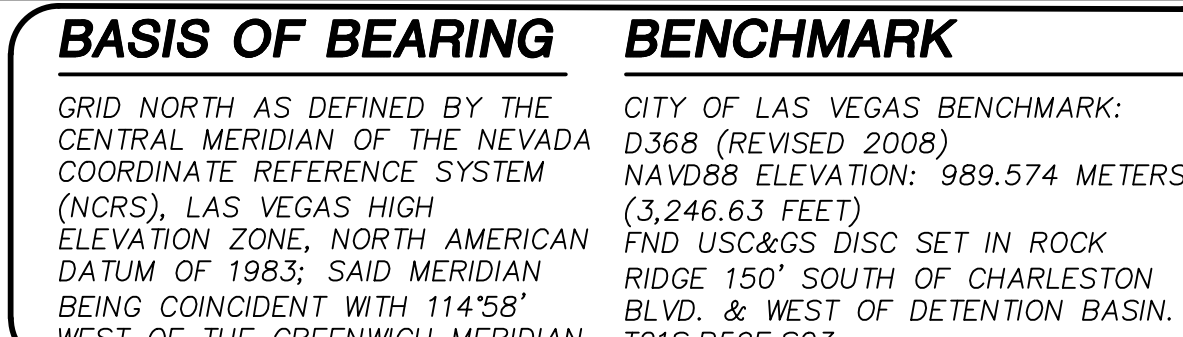
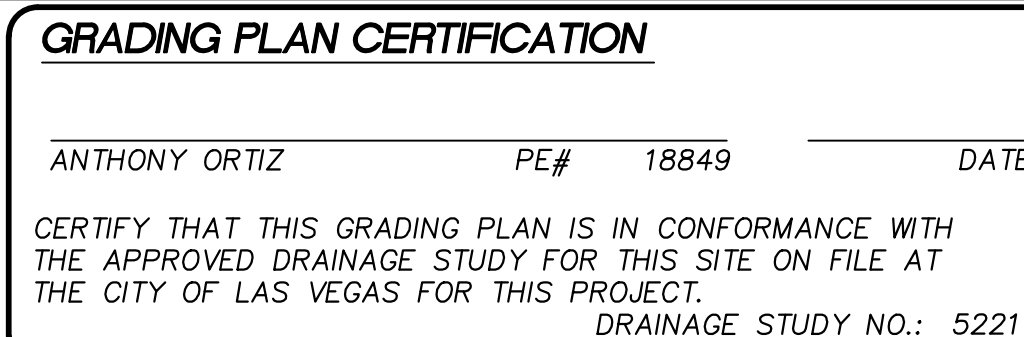
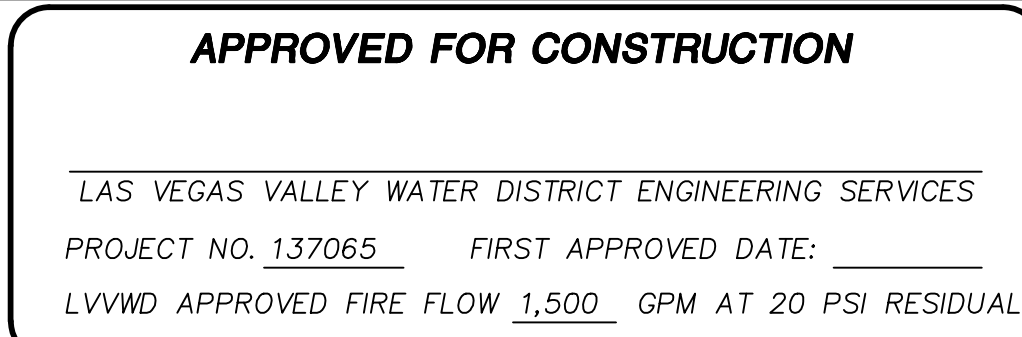
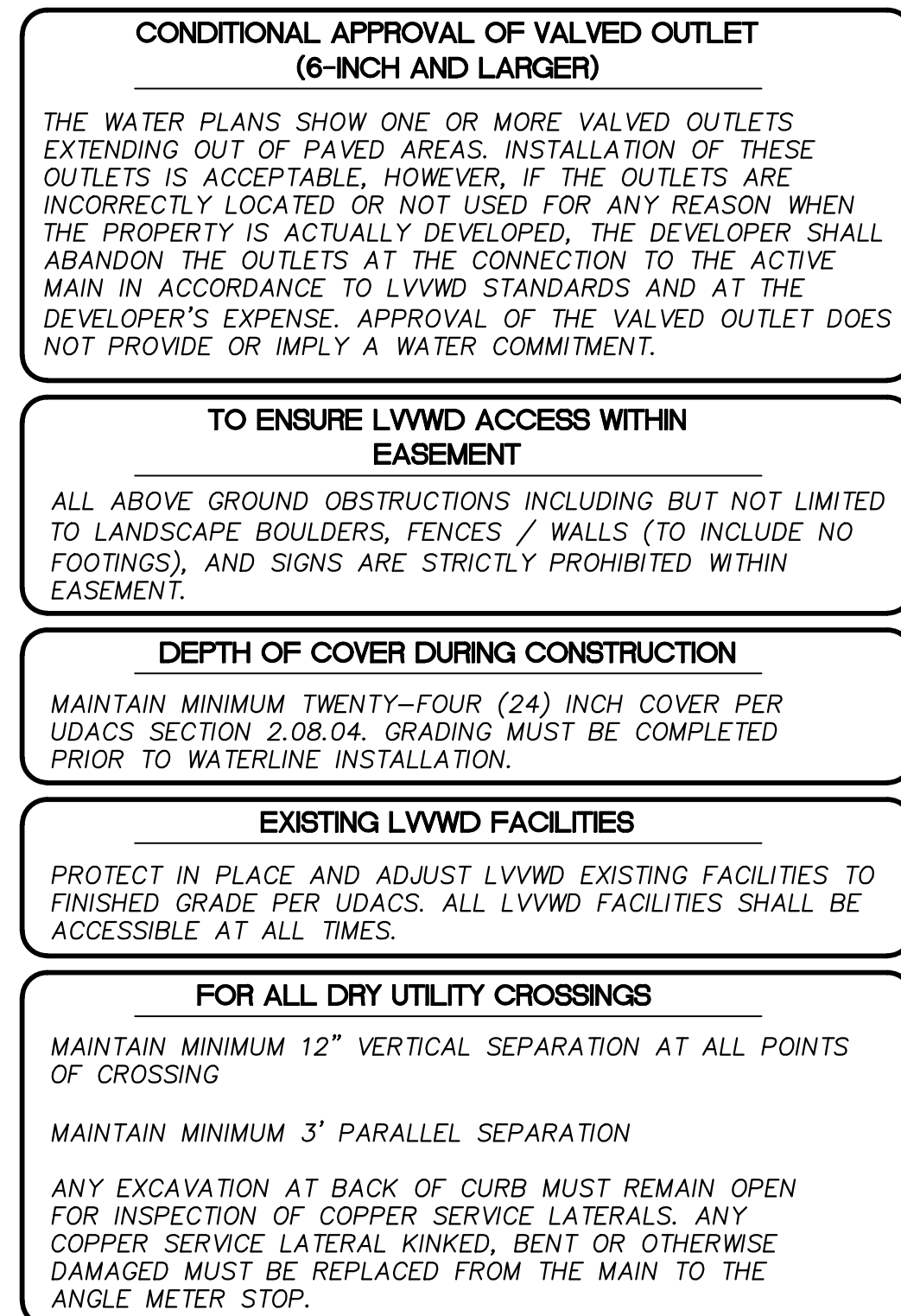
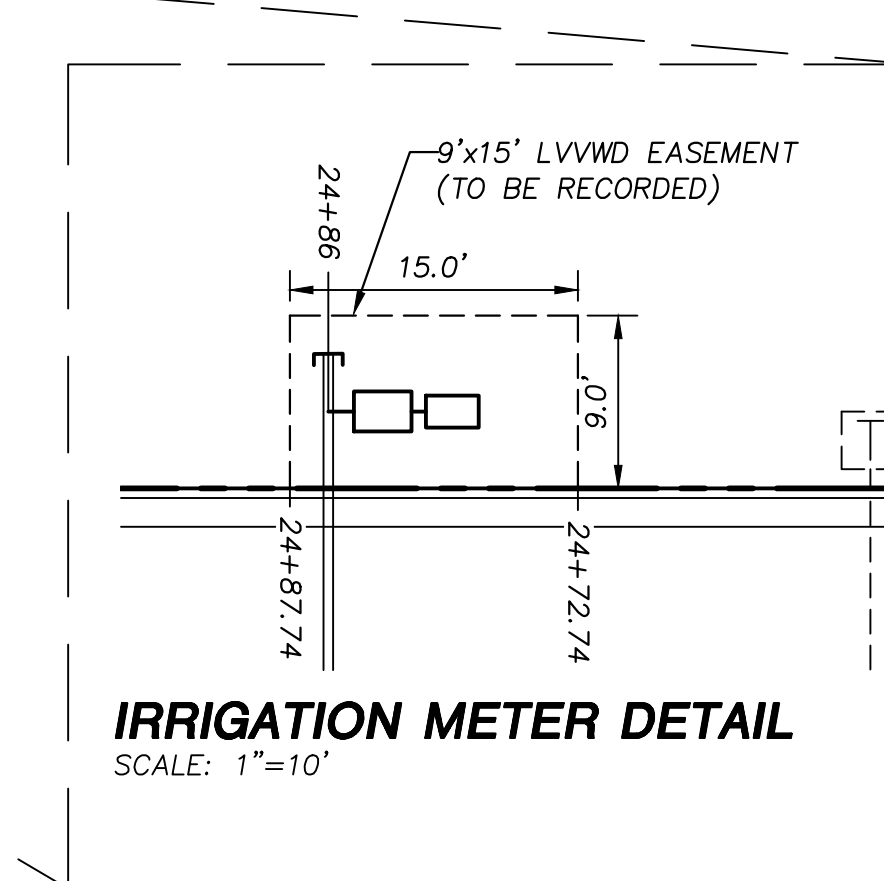
SUMMERLIN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE GRADING PLAN
STA 24+00 TO STA 27+00

10715132
L20-00453
DATE: MARCH, 2021
DRAWING NO.: 12/32
JOB NO. 100063656

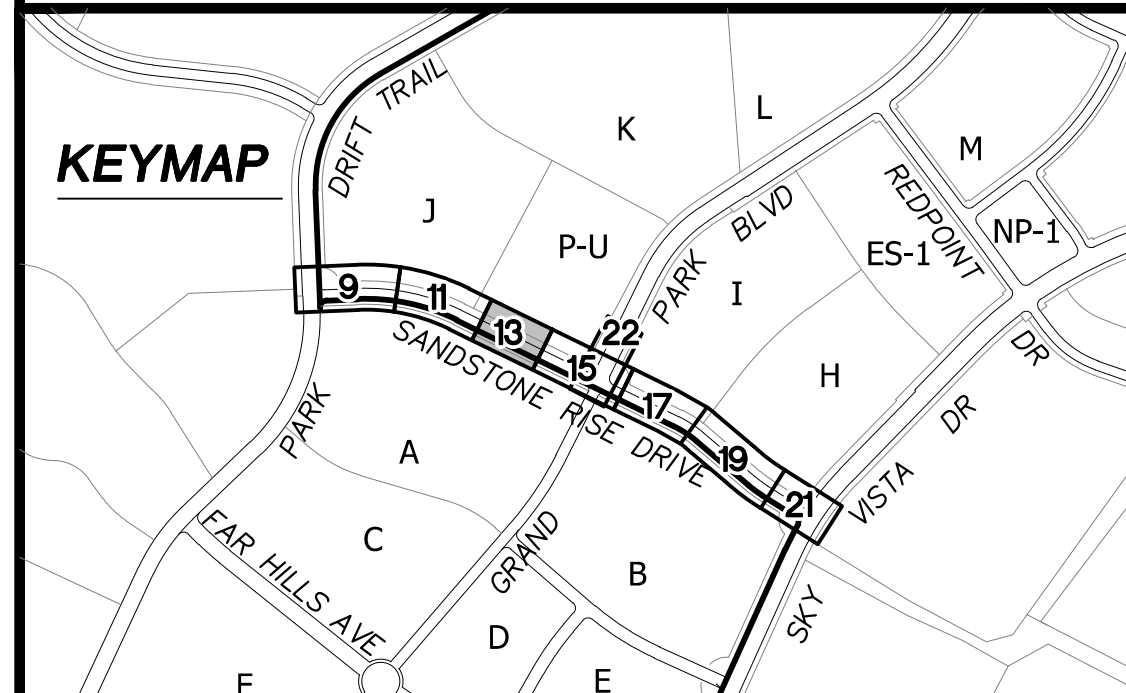
REVISIONS
DESCRIPTION
REV.
BY
DATE
APPROVAL

X: \Projects\Summerlin\ Village 25\100063656 - V25 Street M (Lake Mead to Sky Vista)\ Sheets\63656-08-GRAD-G1.dwg LAYOUT: 12 Mar 04, 2021 - 1:31PM

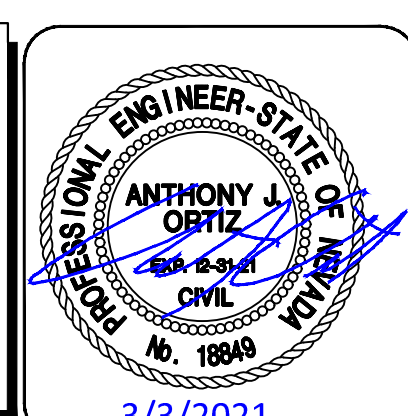


ROADWAY CONSTRUCTION NOTES

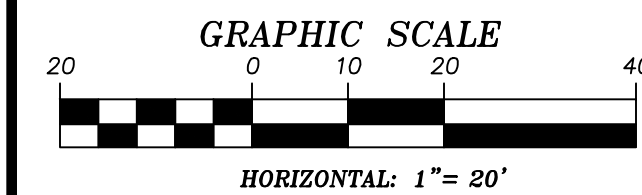
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DESIGNED BY: J. BLAKE		SUMMERLIN VILLAGE 26 SANDSTONE RISE DRIVE (STREET M) SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K) SANDSTONE RISE DRIVE PLAN AND PROFILE STA 24+00 TO STA 27+00	 SUMMERLIN®	ATKINS 2270 Corporate Circle Suite 200 Henderson, Nevada 89074 Telephone: +1.702.263.7275 Fax: +1.702.263.7200	REVISIONS			
DRAWN BY: G. BLAKE					DESCRIPTION	BY	DATE	APPROVAL
CHECKED BY: T. ORTIZ								
DRAWING NO.								
10715132 L20-00453 DATE: MARCH, 2021					13/32 HORIZ.: 1" = 20' VERT.: 1" = 5'			



SOILS REPORT

BY NOVA GEOTECHNICAL
PROJECT NO. G-19-026
DATED MAY 9, 2019
EARTHWORK QUANTITIES (RAW):
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FILL= 23,600 CU YDS

GRADING PLAN CERTIFICATION

ANTHONY ORTIZ PE# 18849 DATE
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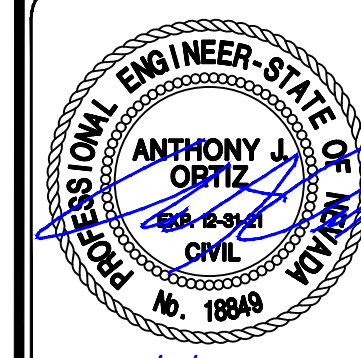
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FND USC&GS DISC SET IN ROCK
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DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO. 14/32
JOB NO. 100063656

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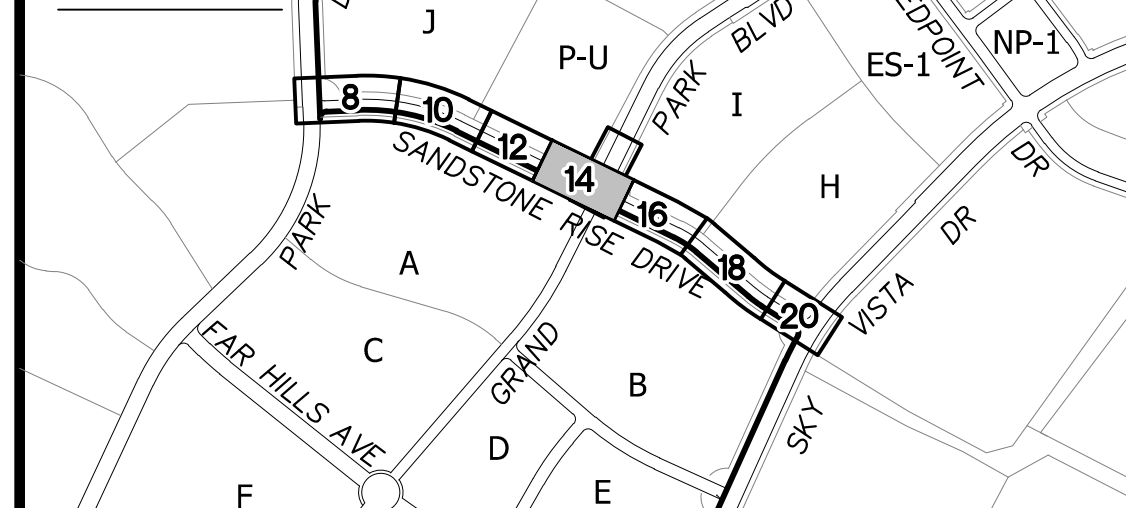
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SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE GRADING PLAN
STA 20+00 TO STA 24+00

107/5132
L20-00453
DATE: MARCH, 2021
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REVISIONS

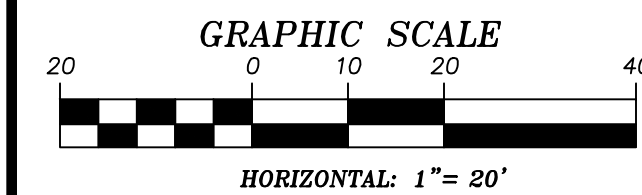
REV.	DESCRIPTION	BY	DATE	APPROVAL

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7755
Fax: +1702.263.7200

SUMMERLIN

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BY: NOVA GEOTECHNICAL
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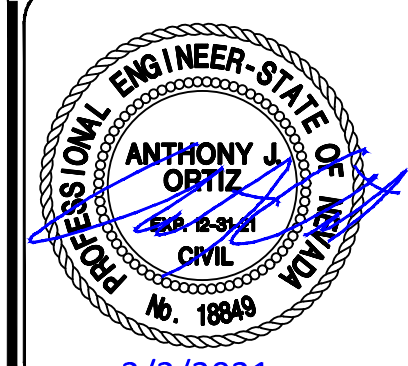
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BLVD. & WEST OF DETENTION BASIN.
T21S,R59E,S03

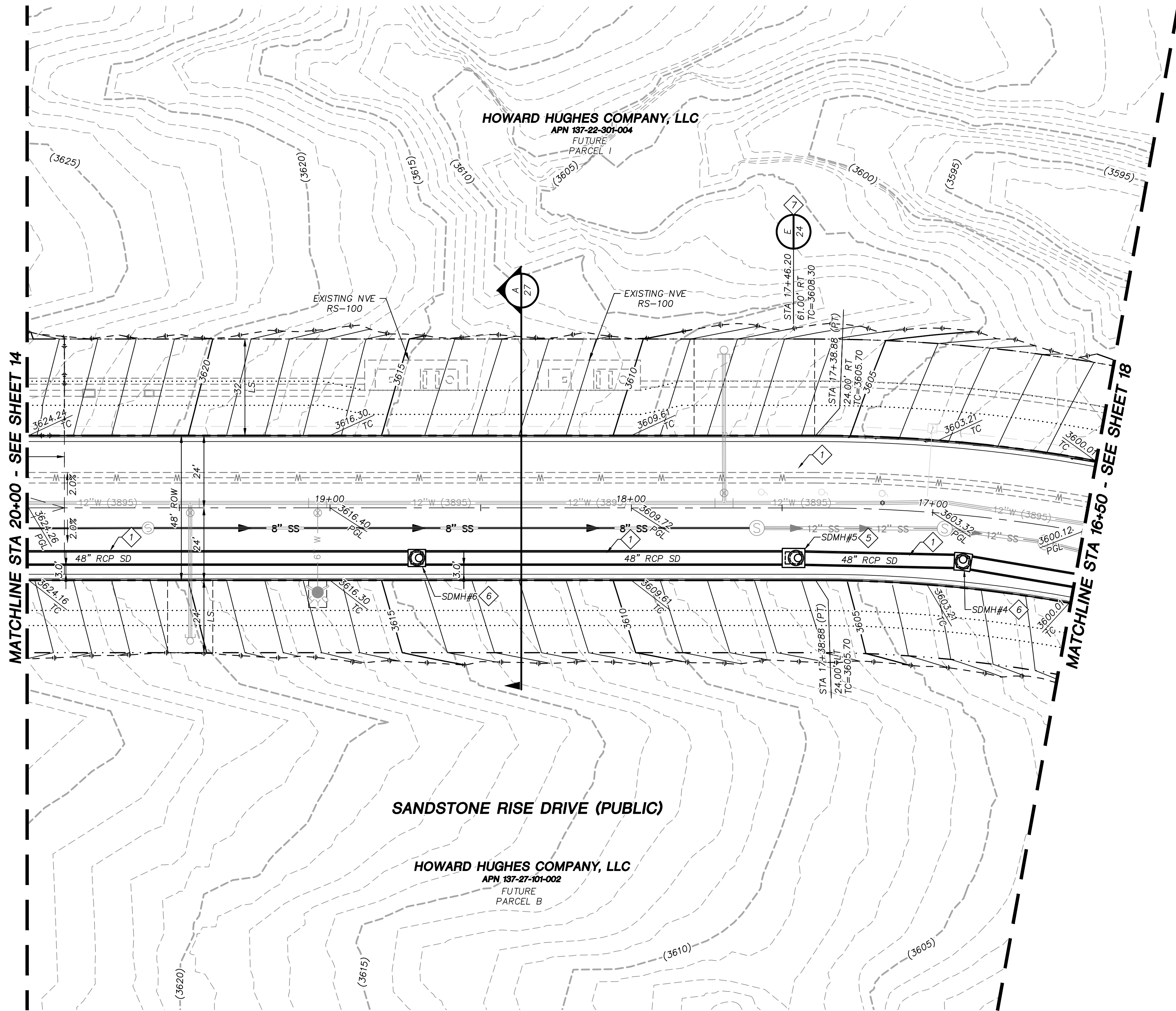


UTILITY LOCATIONS SHOWN HEREON ARE
APPROXIMATE ONLY. IT SHALL BE THE
CONTRACTORS RESPONSIBILITY TO
DETERMINE THE EXACT VERTICAL AND
HORIZONTAL LOCATION OF ALL EXISTING
UNDERGROUND UTILITIES PRIOR TO
COMMENCING CONSTRUCTION. NO
REPRESENTATION IS MADE THAT ALL
EXISTING UTILITIES ARE SHOWN HEREON. THE
ENGINEER ASSUMES NO RESPONSIBILITY FOR
UTILITIES NOT SHOWN OR UTILITIES NOT
SHOWN IN THEIR PROPER LOCATION.



DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO.: 16/32
VERT.: NONE

JOB NO. 100063656



STORM DRAIN CONSTRUCTION NOTES

1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
3. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET
4. INSTALL 60" TYPE I SD MANHOLE PER CCAUSD #403
5. INSTALL 48" TYPE II SD MANHOLE PER CCAUSD #405.2
6. INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406
7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
8. DEEP DROP INLET PER DETAIL "C" SHEET 29.

DEPTH OF COVER DURING CONSTRUCTION

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

EXISTING LVWD FACILITIES

PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

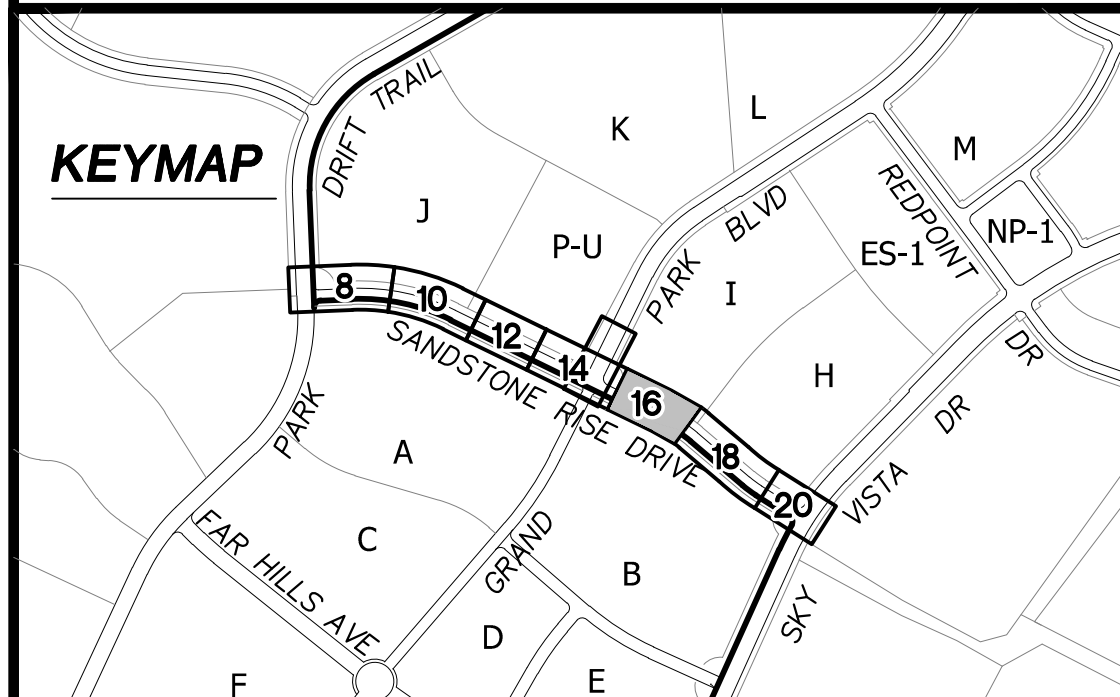
REVISIONS

REV.	DESCRIPTION	BY	DATE	APPROVAL

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7755
Fax: +1702.263.7200

SUMMERLIN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE GRADING PLAN
STA 16+50 TO STA 20+00



X:\Projects\Summerlin Village 25\100063656 - V25 Street M (Lake Mead to Sky Vista)\Sheets\63656-08-GRAD-G1.dwg LAYOUT: 16 Mar 04, 2021 - 1:48PM

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 TO LVVWD STANDARDS AND AT THE
DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES
NOT PROVIDE OR IMPLY A WATER COMMITMENT.

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCES / WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

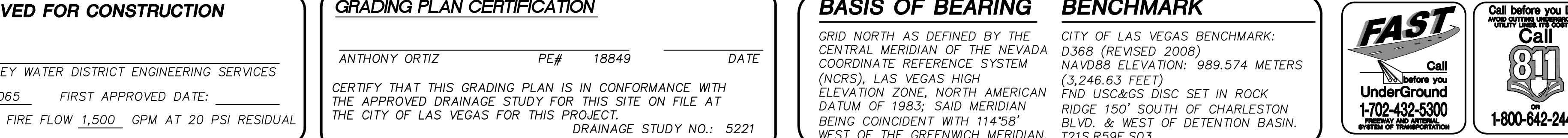
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS
OF CROSSING

ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

PER
LVVWD CONTRACT No. C1473
SUMMERLIN 3665 ZONE RESERVOIR
INLET/OUTLET PIPELINE



LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 137065 FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

ANTHONY ORTIZ	PE#	18849	DATE
---------------	-----	-------	------

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH
THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT
THE CITY OF LAS VEGAS FOR THIS PROJECT.
DRAINAGE STUDY NO.: 5221

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.

CITY OF LAS VEGAS BENCHMARK:
D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS
(3,246.63 FEET)
FND USC&GS DISC SET IN ROCK
RIDGE 150' SOUTH OF CHARLESTON
BLVD. & WEST OF DETENTION BASIN.
T21S,R59E,S03



Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811
 OR
1-800-642-2444

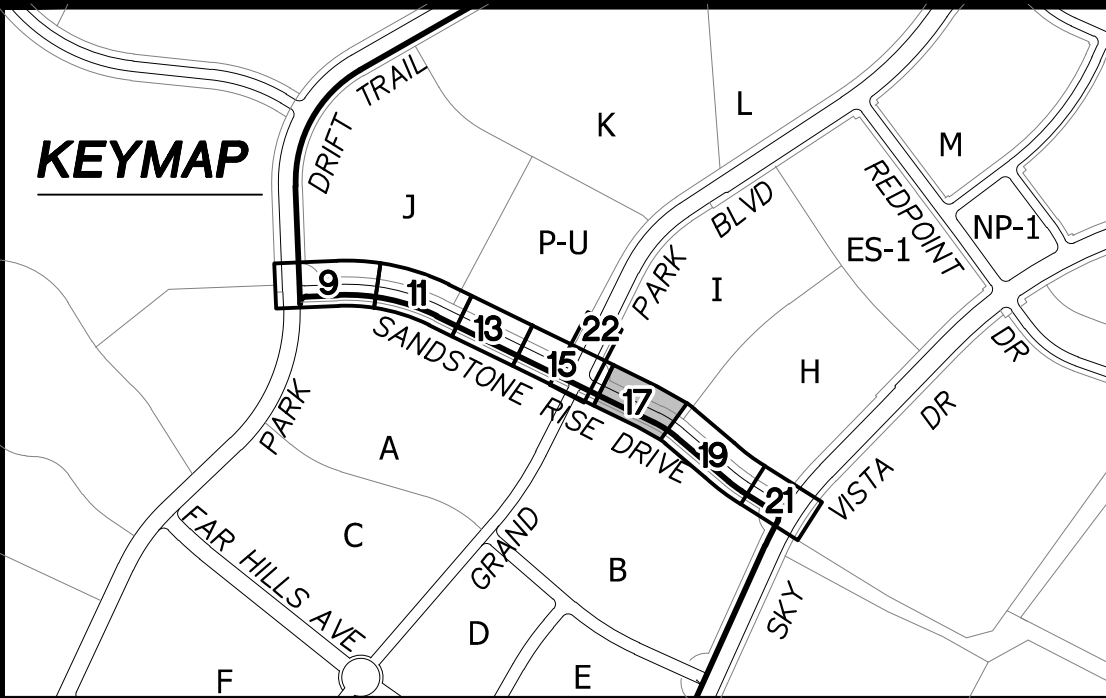


- ① INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
- ② INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
- ③ INSTALL NEENAH R-2560-G BEEHIVE DROP INLET
- ④ INSTALL 60" TYPE I SD MANHOLE PER CCAUSD #403
- ⑤ INSTALL 48" TYPE II SD MANHOLE PER CCAUSD #405.2
- ⑥ INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406
- ⑦ STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
- ⑧ DEEP DROP INLET PER DETAIL "C" SHEET 29.

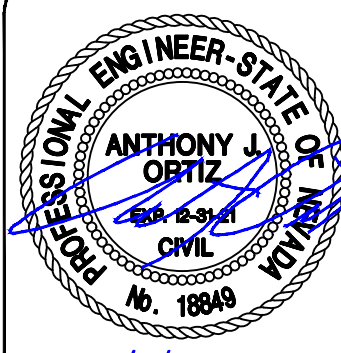
- ① INSTALL SEWER MANHOLE WITH WATER TIGHT JOINTS PER DCSWCS SD-1, SD-3, SD-4 AND SD-5 WITH SINGLE 24" LID. SIZE PER PLAN.
- ② INSTALL PVC C-900 SEWER MAIN PER DCSWCS SD-17 & SD-15 (PUBLIC). SIZE PER PLAN.
- ③ STUB AND CAP SEWER PIPE. INSTALL THRUST BLOCK (1 CUBIC FT MINIMUM).
- ④ INSTALL 6" LATERAL PER DCSWCS SD-22, SD-23 AND SD-25

- 1 INSTALL WATER MAIN WITH MARKER BALLS PER UDACS PLATES #15, #17 AND #19
- 2 INSTALL GATE VALVE PER UDACS PLATES #30 AND #39
- 3 INSTALL FIRE HYDRANT WITH APPURTENANCES (CONCRETE PAD, LATERAL, VALVE, AND TEE) PER UDACS PLATE #30, #31, #39, #40 AND DETAIL "C" ON SHEET 28
- 4 INSTALL CAP AND 2" MANUAL BLOWOFF ASSEMBLY PER UDACS PLATE #36
- 5 INSTALL TEE W/ VALVE AND LATERAL PER UDACS PLATES #17, #19, #30, #31 AND #39
- 6 INSTALL 5" BEND PER UDACS PLATE #31
- 7 INSTALL 11.25" BEND PER UDACS PLATE #31
- 8 INSTALL 1.5" WATER METER AND RPPA PER UDACS PLATES #4 AND #8 AND DETAIL ON SHEET 30
- 9 INSTALL IN-LINE REDUCER PER UDACS PLATE #30
- 10 REMOVE CAP AND 2" BLOWOFF AND CONNECT TO EXISTING WATERLINE
- 11 EXISTING WATER LINE BY OTHERS
- 12 WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03
- 13 CONNECT TO EXISTING BLIND FLANGE
- 14 ADJUST EXISTING FACILITY TO GRADE PER UDACS
- 15 INSTALL 45" VERTICAL BEND PER UDACS PLATE #31

- (1) SAWCUT AND MATCH EXISTING
- (2) INSTALL IRRIGATION SLEEVES PER DETAIL "E" SHEET 28
- (3) CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
- (4) CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
- (5) FUTURE SIDEWALK BY OTHERS
- (6) CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD #222.1
- (7) CONSTRUCT SIDEWALK RAMP, PER DETAIL "A", SHEET 28
- (8) CONSTRUCT PLANTMIX BITUMINOUS SURFACE OVER TYPE II AGGREGATE BASE PER SOILS REPORT. SEE SHEET 27 FOR TYPICAL PAVEMENT SECTION.
- (9) CONSTRUCT SIDEWALK RAMP CASE II PER CCAUSD #235 AND DETAIL "B", SHEET 28



UTILITY LOCATIONS SHOWN HEREON 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 LOCATION.

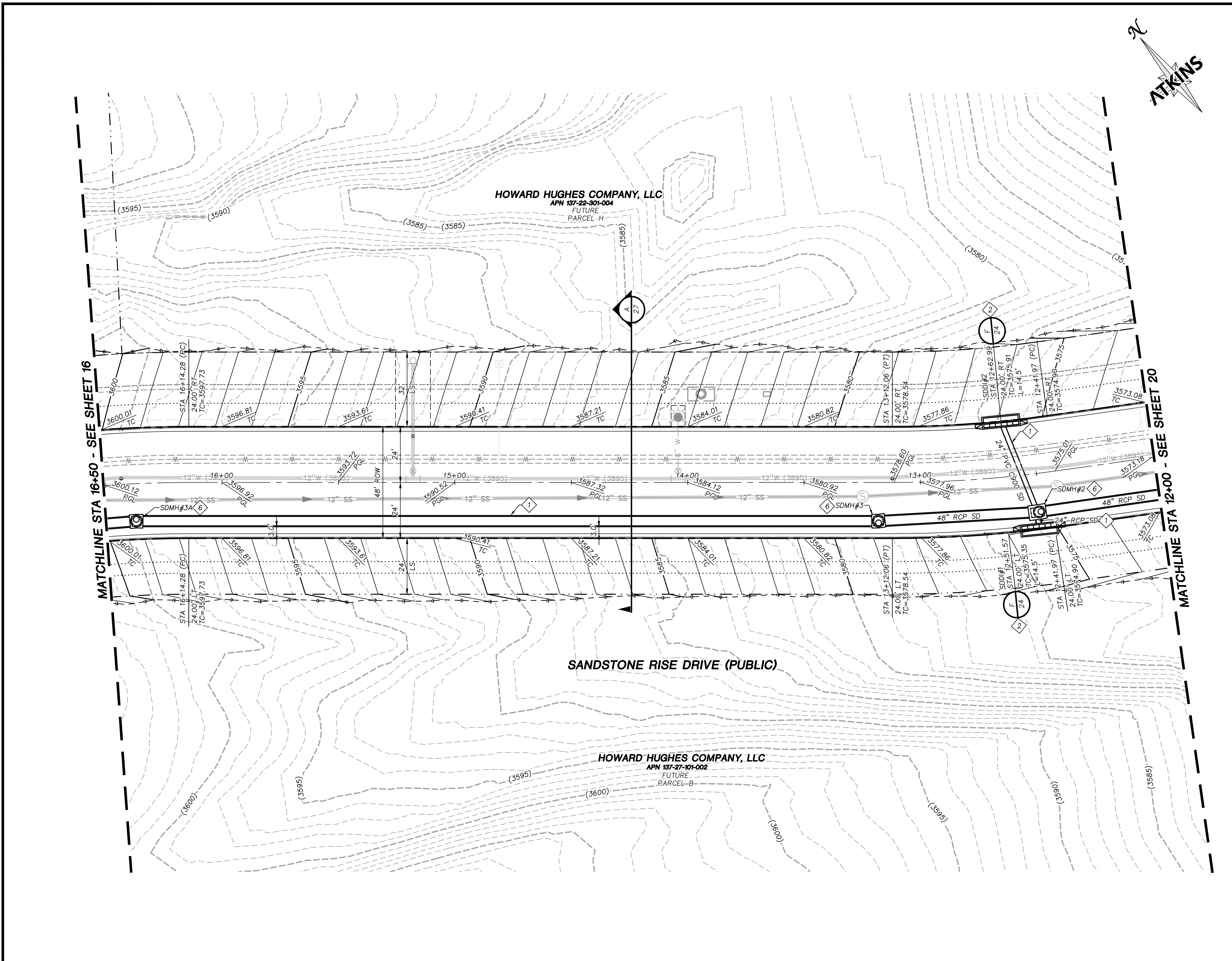


REVISIONS	
REV	DESCRIPTION

ATKINS
2270 Corporate Circle, Suite 200
Henderson, Nevada 89074
Telephone: +1/702.263.7275
Fax: +1/702.263.7200

SUMMERLIN VILLAGE 26
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE PLAN AND PROFILE

DESIGNED BY: G. BLAKE	107Y5132
DRAWN BY: G. BLAKE	L20-00453
CHECKED BY: T. ORTIZ	DATE: MARCH, 2021
HORIZ.: 1" = 20'	DRAWING NO.
VERT.: 1" = 5'	17/32



- ### STORM DRAIN CONSTRUCTION NOTES
1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
 2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
 3. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET
 4. INSTALL 60" TYPE I SD MANHOLE PER CCAUSD #403
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 6. INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406
 7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
 8. DEEP DROP INLET PER DETAIL "C" SHEET 29.
- #### DEPTH OF COVER DURING CONSTRUCTION

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

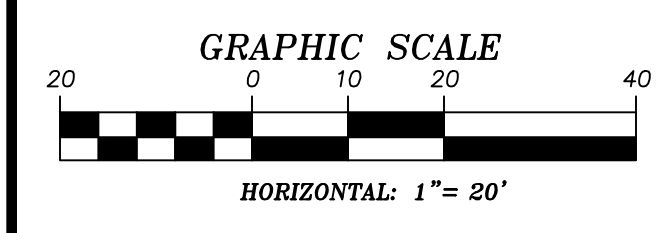
PROTECT IN PLACE AND ADJUST LWWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LWWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

REVISIONS	
REV.	DESCRIPTION

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7755
Fax: +1702.263.7200

SUMMERLIN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE GRADING PLAN
STA 12+00 TO STA 16+50



SOILS REPORT
BY: NOVA GEOTECHNICAL
PROJECT NO.: G-19-026
DATED: MAY 9, 2019
EARTHWORK QUANTITIES (RAW):
CUT= 3,500 CU YDS
FILL= 23,600 CU YDS

GRADING PLAN CERTIFICATION
ANTHONY ORTIZ PE# 18849 DATE _____
CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.
DRAINAGE STUDY NO.: 5221

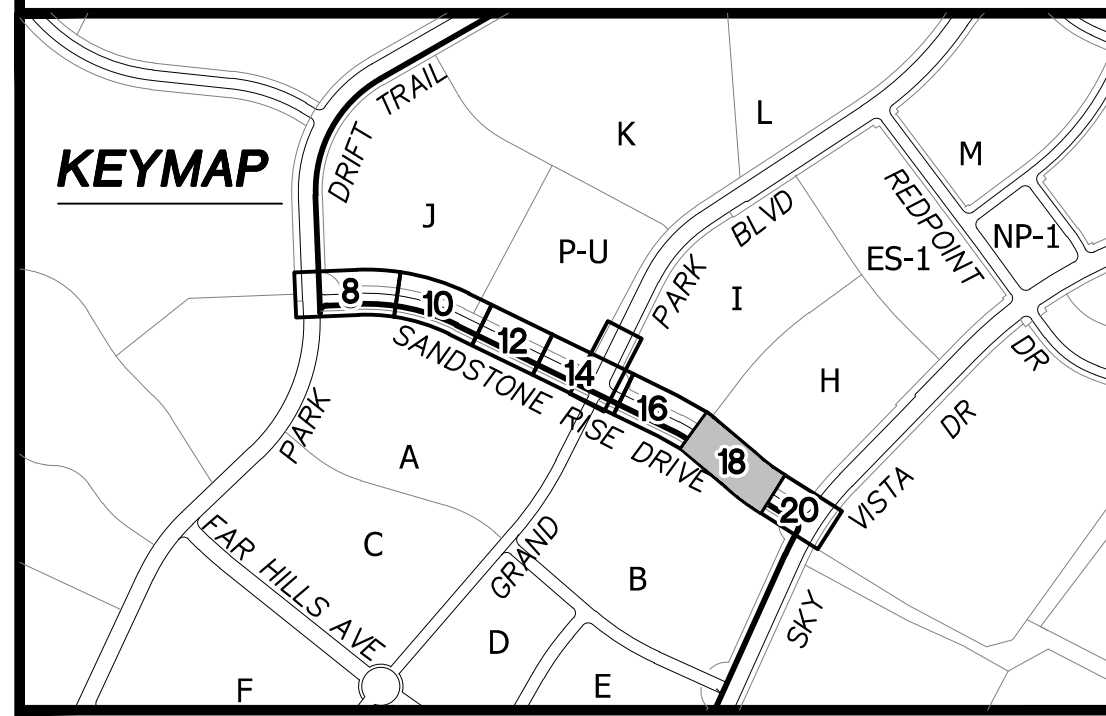
BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET)
FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S,R59E,S03

FAST
Call before you Dig
UnderGround
1-702-432-5300
1-800-642-2444

811
Call before you Dig
UnderGround
1-800-642-2444

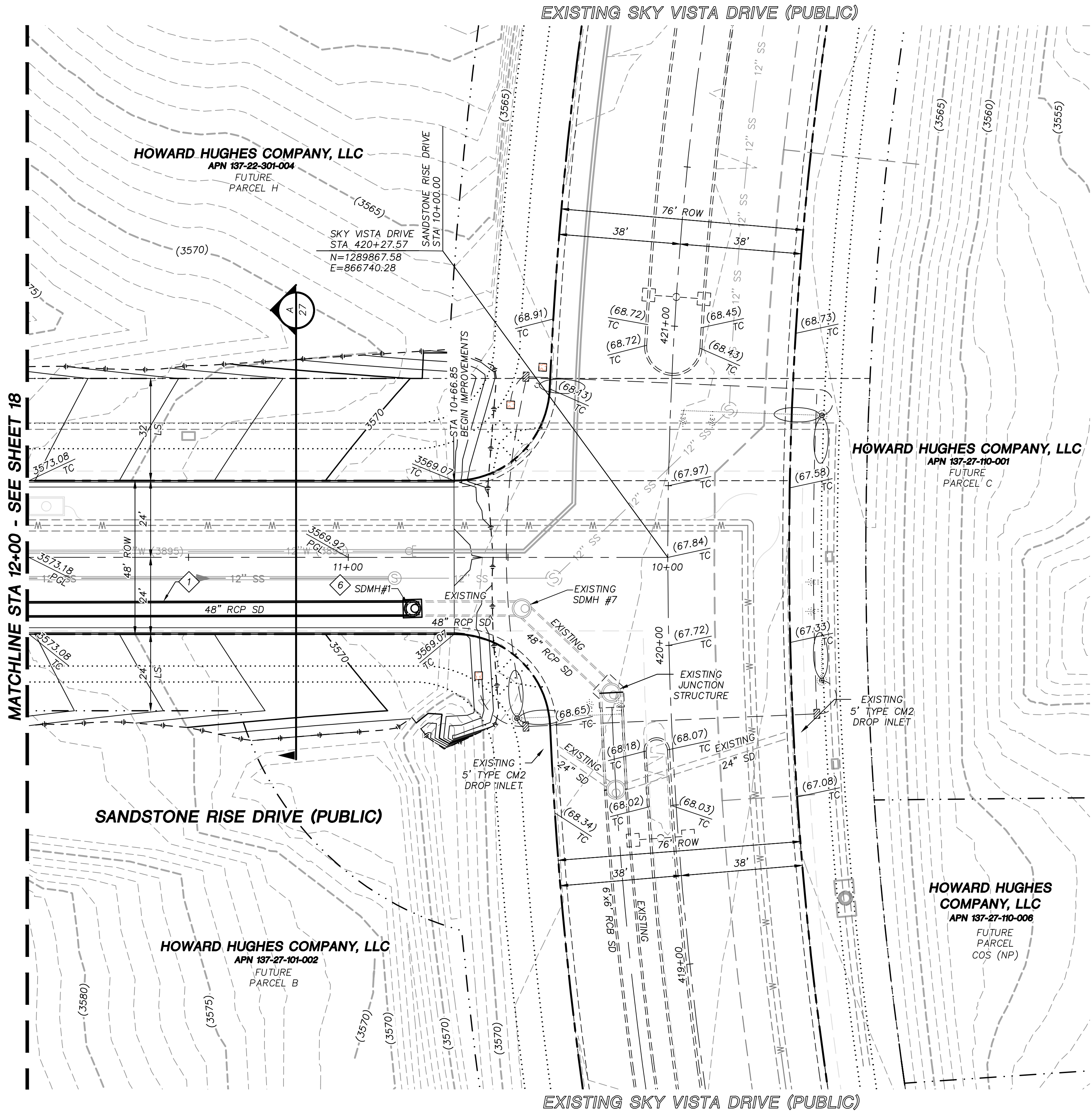
CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929



UTILITY LOCATIONS SHOWN HEREON 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 LOCATION.

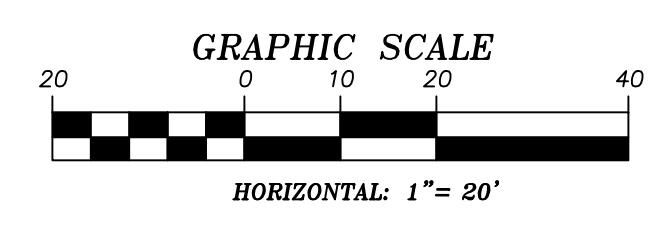
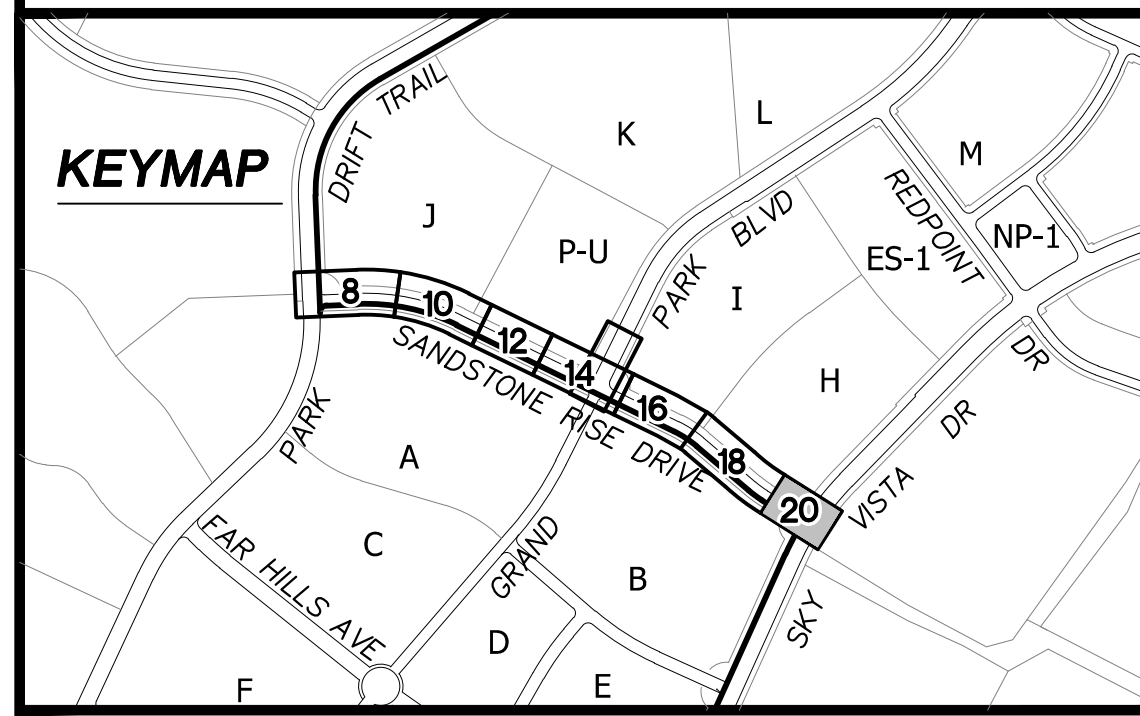
PROFESSIONAL ENGINEER-STATE OF NEVADA
ANTHONY ORTIZ
PE# 18849
3/3/2021

DESIGNED BY: G. BLAKE	107/5132
DRAWN BY: G. BLAKE	L20-00453
CHECKED BY: G. BLAKE	DATE: MARCH, 2021
DATE: MARCH, 2021	DRAWING NO. 18/32
HORIZ.: 1"=20'	VERT.: NONE
PROJECT: Summerlin Village 25\100063656 - V25 Street M (Lake Mead to Sky Vista)_Sheets\63656-08-GRAD-G1.dwg LAYOUT: 18 Mar 04, 2021 - 2:27PM	JOB NO. 100063656



- STORM DRAIN CONSTRUCTION NOTES**
1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
 2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
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 7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
 8. DEEP DROP INLET PER DETAIL "C" SHEET 29.
- DEPTH OF COVER DURING CONSTRUCTION**
- MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
- EXISTING LVWD FACILITIES**
- PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

EXISTING SKY VISTA DRIVE:
PER
VILLAGE 25 SKY VISTA DRIVE
IMPROVEMENTS
CLV# 107V7884



SOILS REPORT
BY: NOVA GEOTECHNICAL
PROJECT NO. G-19-026
DATED: MAY 9, 2019
EARTHWORK QUANTITIES (RAW):
CUT= 3,500 CU YDS
FILL= 23,600 CU YDS

GRADING PLAN CERTIFICATION
ANTHONY ORTIZ PE# 18849 DATE _____
CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.
DRAINAGE STUDY NO.: 5221

BASIS OF BEARING
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.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008) NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET)
FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S,R59E,S03

Call before you Dig
UnderGround
1-702-432-5300

Call before you Dig
811
1-800-642-2444

CALL BEFORE YOU DIG
1-702-227-2929

UTILITY LOCATIONS SHOWN HEREON 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 LOCATION.

3/3/2021

DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO. 20/32
VERT.: NONE

2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7755
Fax: +1702.263.7200

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE GRADING PLAN
BEGIN TO STA 12+00

107V5132
L20-00453
DATE: MARCH, 2021
DRAWING NO. 20/32
JOB NO. 100063656

Project: Summerlin Village 25\100063656 - V25 Street M (Lake Mead to Sky Vista)_Sheets\63656-08-GRAD-GI.dwg LAYOUT: 20 Mar 04, 2021 - 3:35PM

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO LANDSCAPE BOULDERS, FENCES / WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

DEPTH OF COVER DURING CONSTRUCTION

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

EXISTING LVVWD FACILITIES

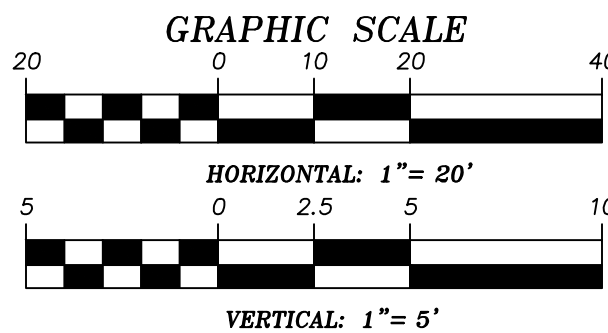
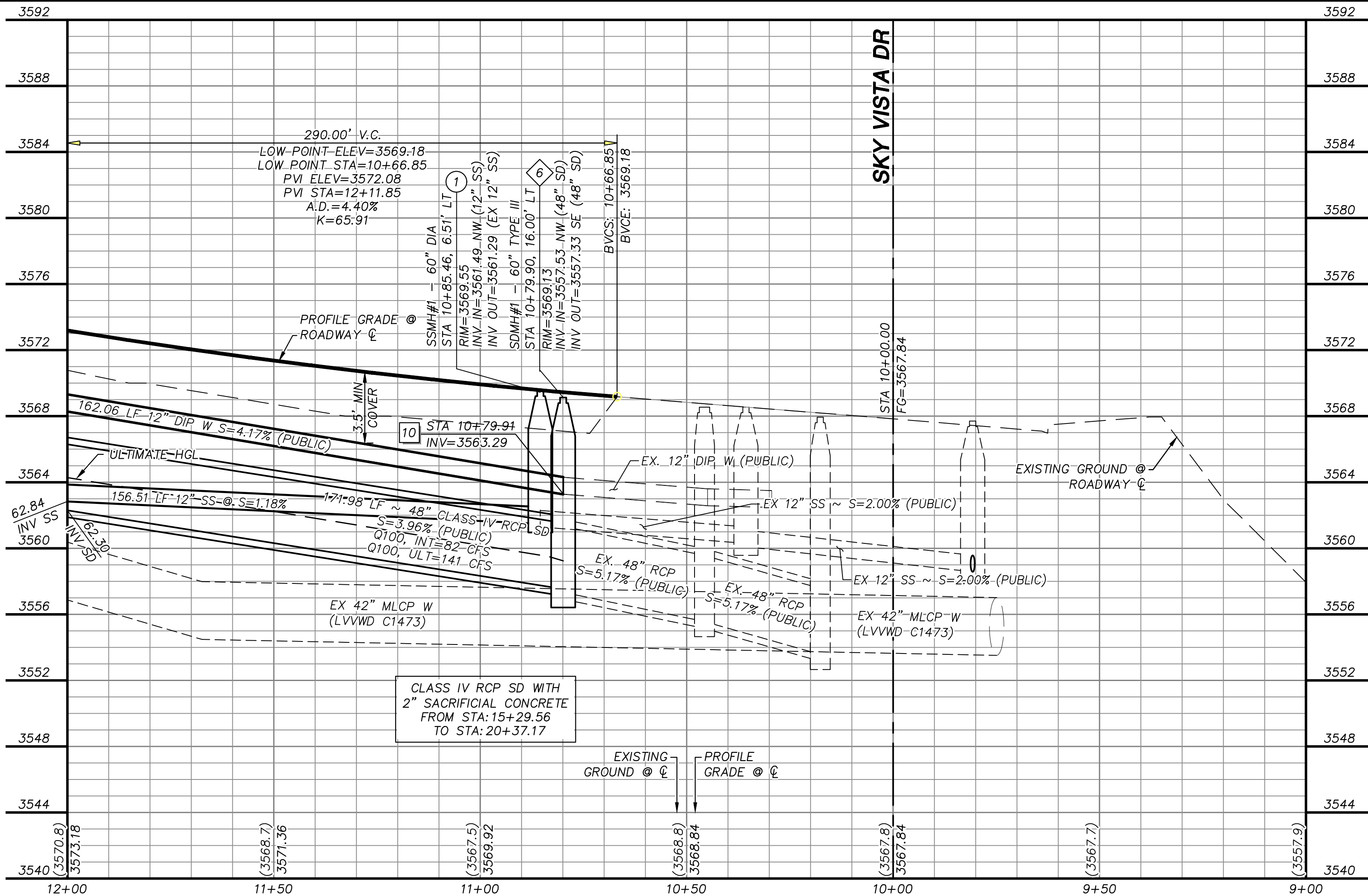
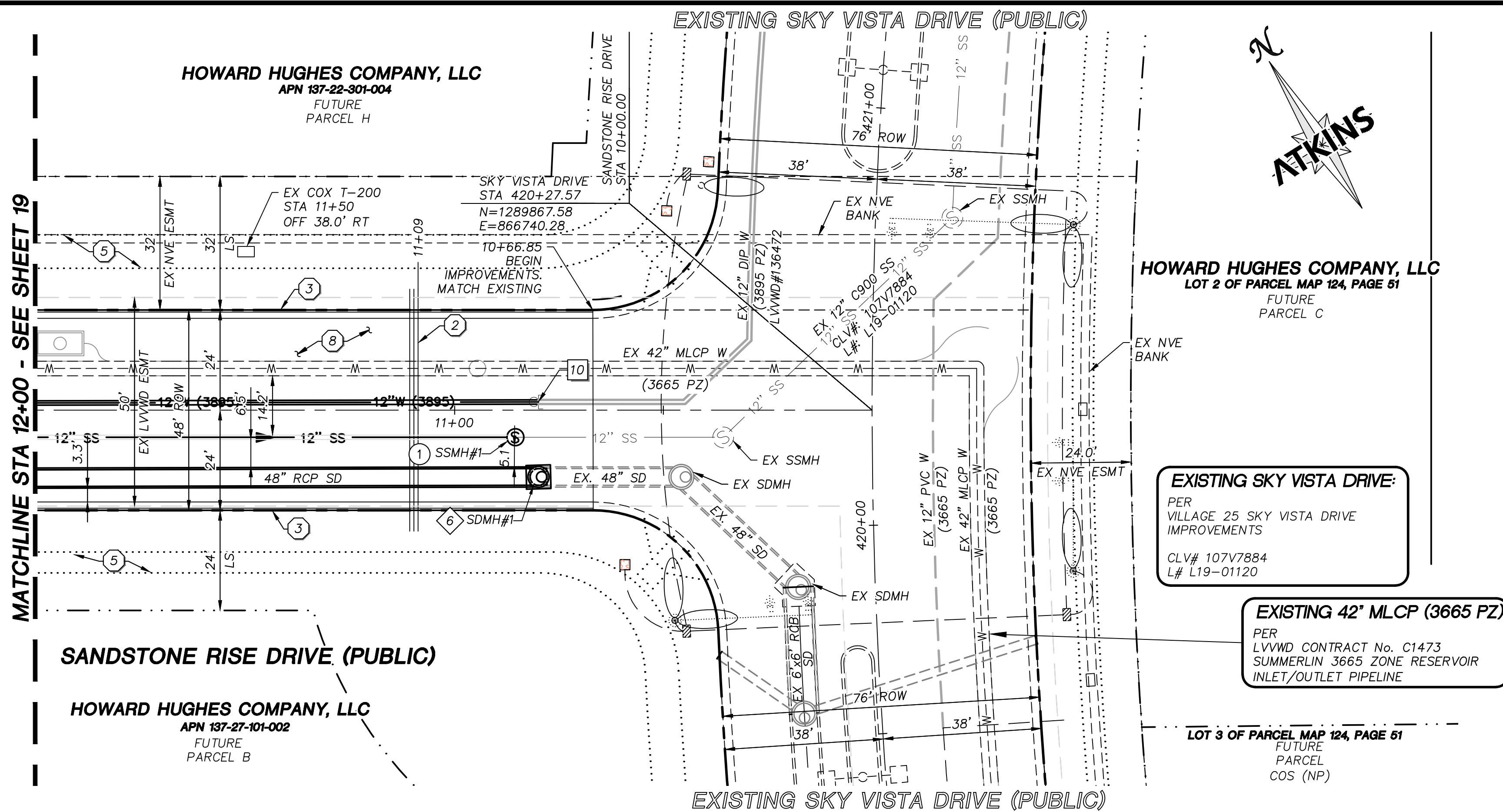
PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.

FOR ALL DRY UTILITY CROSSINGS

MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING

MAINTAIN MINIMUM 3' PARALLEL SEPARATION

ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 137065 FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

GRADING PLAN CERTIFICATION

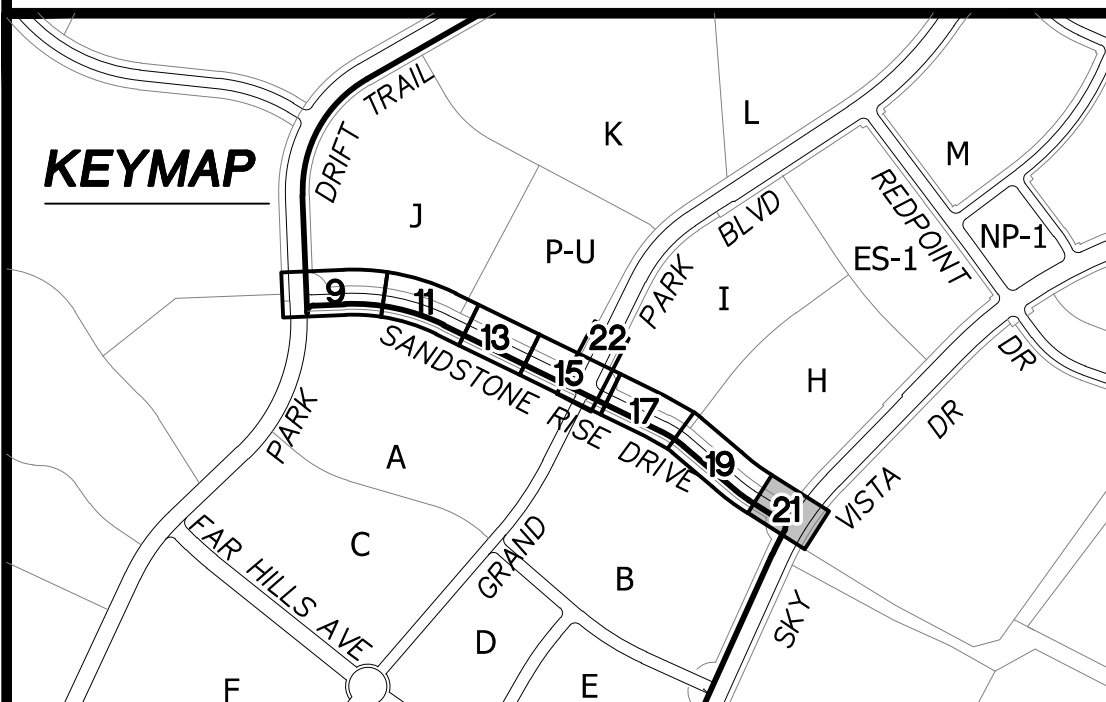
ANTHONY ORTIZ PE# 18849 DATE _____
CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT
DRAINAGE STUDY NO.: 5221

BASIS OF BEARING

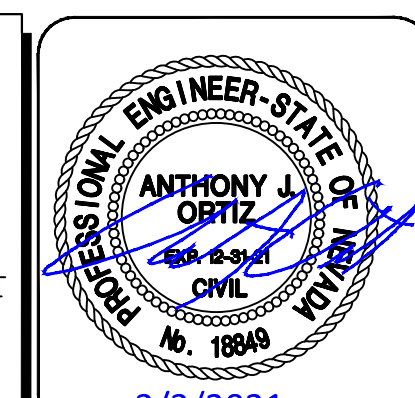
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008) NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET) FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S,R59E,S03



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DESIGNED BY:	10775132
DRAWN BY:	L20-00453
CHECKED BY:	G. BLAKE
DATE:	MARCH, 2021
DRAWING NO.	21/32
VERT.:	1"=5'
HORIZ.:	1"=20'

JOB NO. 100063656

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
3. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET
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6. INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406
7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
8. DEEP DROP INLET PER DETAIL "C" SHEET 29.

SEWER CONSTRUCTION NOTES

1. INSTALL SEWER MANHOLE WITH WATER TIGHT JOINTS PER DCSWCS SD-1, SD-3, SD-4 AND SD-5 WITH SINGLE 24" LID. SIZE PER PLAN.
2. INSTALL PVC C-900 SEWER MAIN PER DCSWCS SD-17 & SD-15 (PUBLIC). SIZE PER PLAN.
3. STUB AND CAP SEWER PIPE. INSTALL THRUST BLOCK (1 CUBIC FT. MINIMUM).
4. INSTALL 6" LATERAL PER DCSWCS SD-22, SD-23 AND SD-25

WATERLINE CONSTRUCTION NOTES

1. INSTALL WATER MAIN WITH MARKER BALLS PER UDACS PLATES #15, #17 AND #19
2. INSTALL GATE VALVE PER UDACS PLATES #30 AND #39
3. INSTALL FIRE HYDRANT WITH APPURTENANCES (CONCRETE PAD, LATERAL, VALVE, AND TEE) PER UDACS PLATE #30, #31, #39, #40 AND DETAIL "C" ON SHEET 28
4. INSTALL CAP AND 2" MANUAL BLOWOFF ASSEMBLY PER UDACS PLATE #36
5. INSTALL TEE W/ VALVE AND LATERAL PER UDACS PLATES #17, #19, #30, #31 AND #39
6. INSTALL 5" BEND PER UDACS PLATE #31
7. INSTALL 11.25" BEND PER UDACS PLATE #31
8. INSTALL 1.5" WATER METER AND RPPA PER UDACS PLATES #4 AND #8 AND DETAIL ON SHEET 30
9. INSTALL IN-LINE REDUCER PER UDACS PLATE #30
10. REMOVE CAP AND 2" BLOWOFF AND CONNECT TO EXISTING WATERLINE
11. EXISTING WATER LINE BY OTHERS
12. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03
13. CONNECT TO EXISTING BLIND FLANGE
14. ADJUST EXISTING FACILITY TO GRADE PER UDACS
15. INSTALL 45" VERTICAL BEND PER UDACS PLATE #31

ROADWAY CONSTRUCTION NOTES

1. SAWCUT AND MATCH EXISTING
2. INSTALL IRRIGATION SLEEVES PER DETAIL "E" SHEET 28
3. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
4. CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
5. FUTURE SIDEWALK BY OTHERS
6. CONSTRUCT COMMERCIAL DRIVEWAY PER CCASUD #222.1
7. CONSTRUCT SIDEWALK RAMP, PER DETAIL "A", SHEET 28
8. CONSTRUCT PLANTMIX BITUMINOUS SURFACE OVER TYPE II AGGREGATE BASE PER SOILS REPORT. SEE SHEET 27 FOR TYPICAL PAVEMENT SECTION.
9. CONSTRUCT SIDEWALK RAMP CASE II PER CCAUSD #235 AND DETAIL "B", SHEET 28

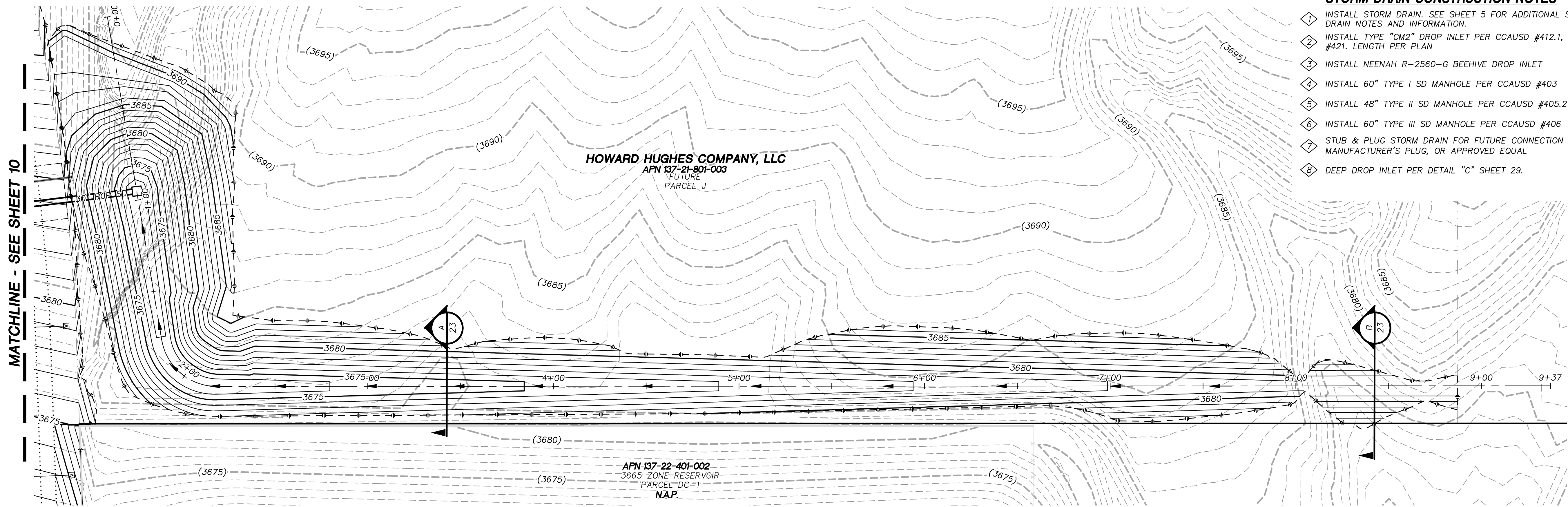
REVISIONS	DESCRIPTION	BY	DATE	APPROVAL

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7755
Fax: +1702.263.7200

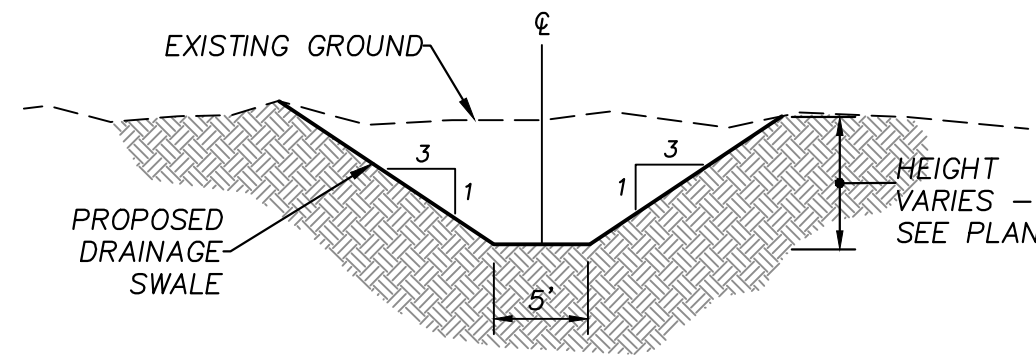
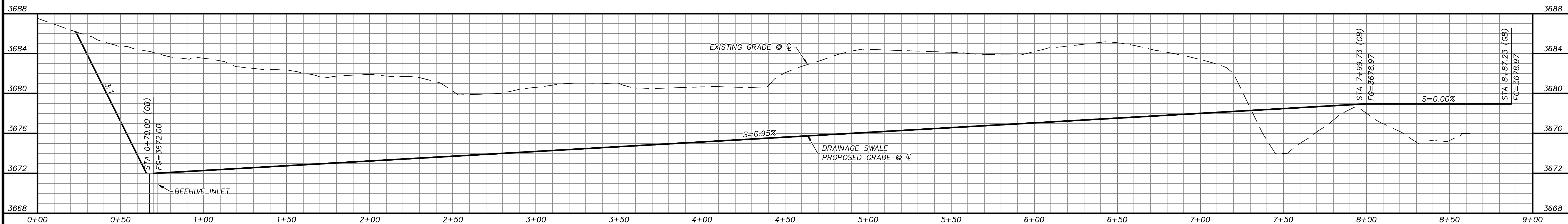
SUMMERLIN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)
SANDSTONE RISE DRIVE PLAN AND PROFILE
BEGIN TO STA 12+00

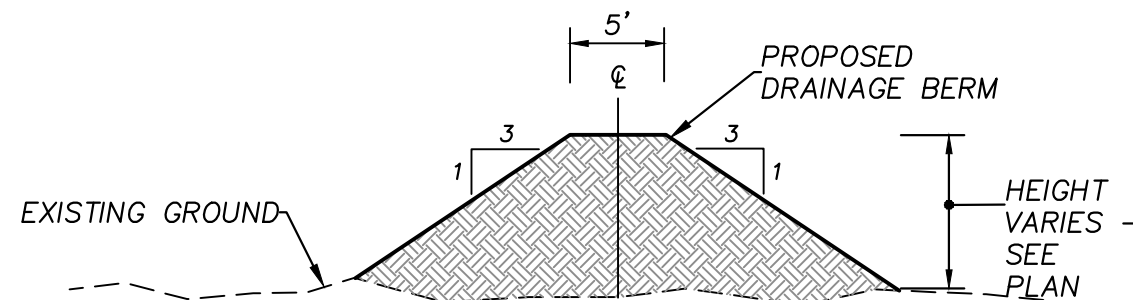
DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: G. BLAKE
DATE: MARCH, 2021
DRAWING NO. 21/32
VERT.: 1"=5'
HORIZ.: 1"=20'



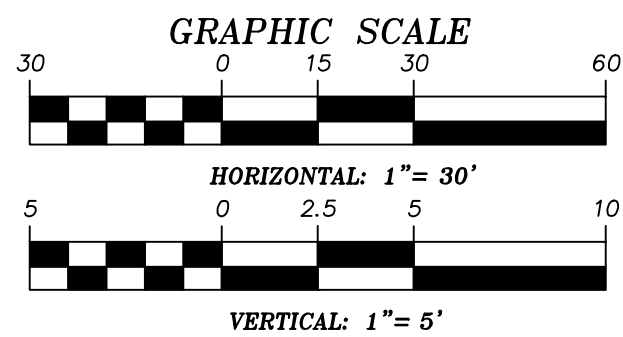
INTERIM DRAINAGE IMPROVEMENTS ARE PRIVATELY OWNED AND PRIVATELY MAINTAINED BY THE HOWARD HUGHES COMPANY.



N.T.S.



N.T.S.



BY NOVA GEOTECHNICAL
PROJECT NO. G-19-026
DATED MAY 9, 2019
EARTHWORK QUANTITIES (RAW):
CUT= 3,500 CU YDS
FILL= 23,600 CU YDS

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH
THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT
THE CITY OF LAS VEGAS FOR THIS PROJECT.

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.	CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008) NAVD88 ELEVATION: 989.574 METERS (3.24 FEET) FIND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T212.R59E.S03
--	--

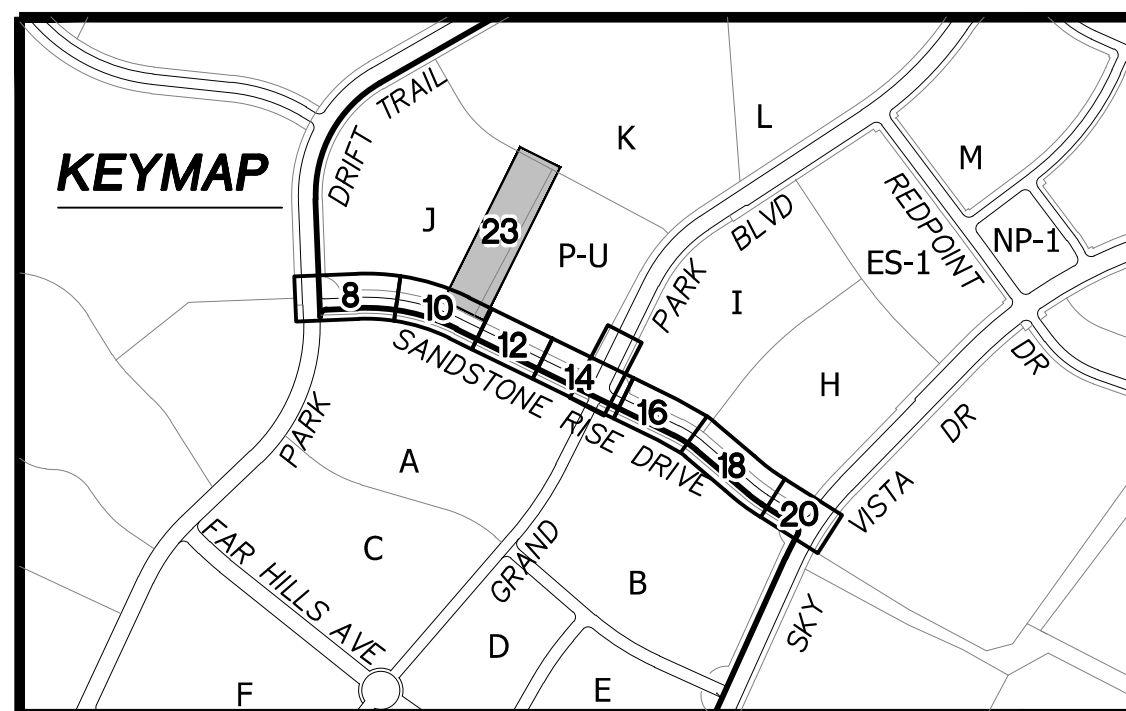
CITY OF LAS VEGAS BENCHMARK:
D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS
(3,246.63 FEET)
FND USC&GS DISC SET IN ROCK
RIDGE 150' SOUTH OF CHARLESTON
BLVD. & WEST OF DETENTION BASIN.
T21S,R59E,S03



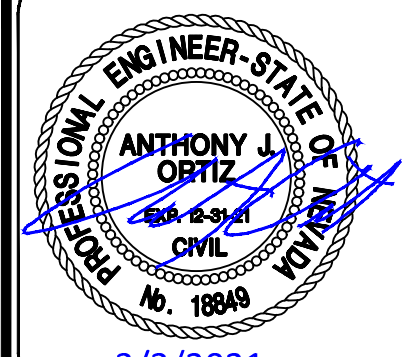
Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811

OR
1-800-642-2444



UTILITY LOCATIONS SHOWN HEREON 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 LOCATION.



107Y5132 L20-00453	DESIGNED BY: G. BLAKE
DATE: MARCH, 2021	DRAWN BY: G. BLAKE
DRAWING NO.	CHECKED BY: T. ORTIZ
23/32	HORIZ.: 1"=30" VERT.: NONE

JOB NO. 100063656

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: +1702.263.7275
Fax: +1702.263.7200

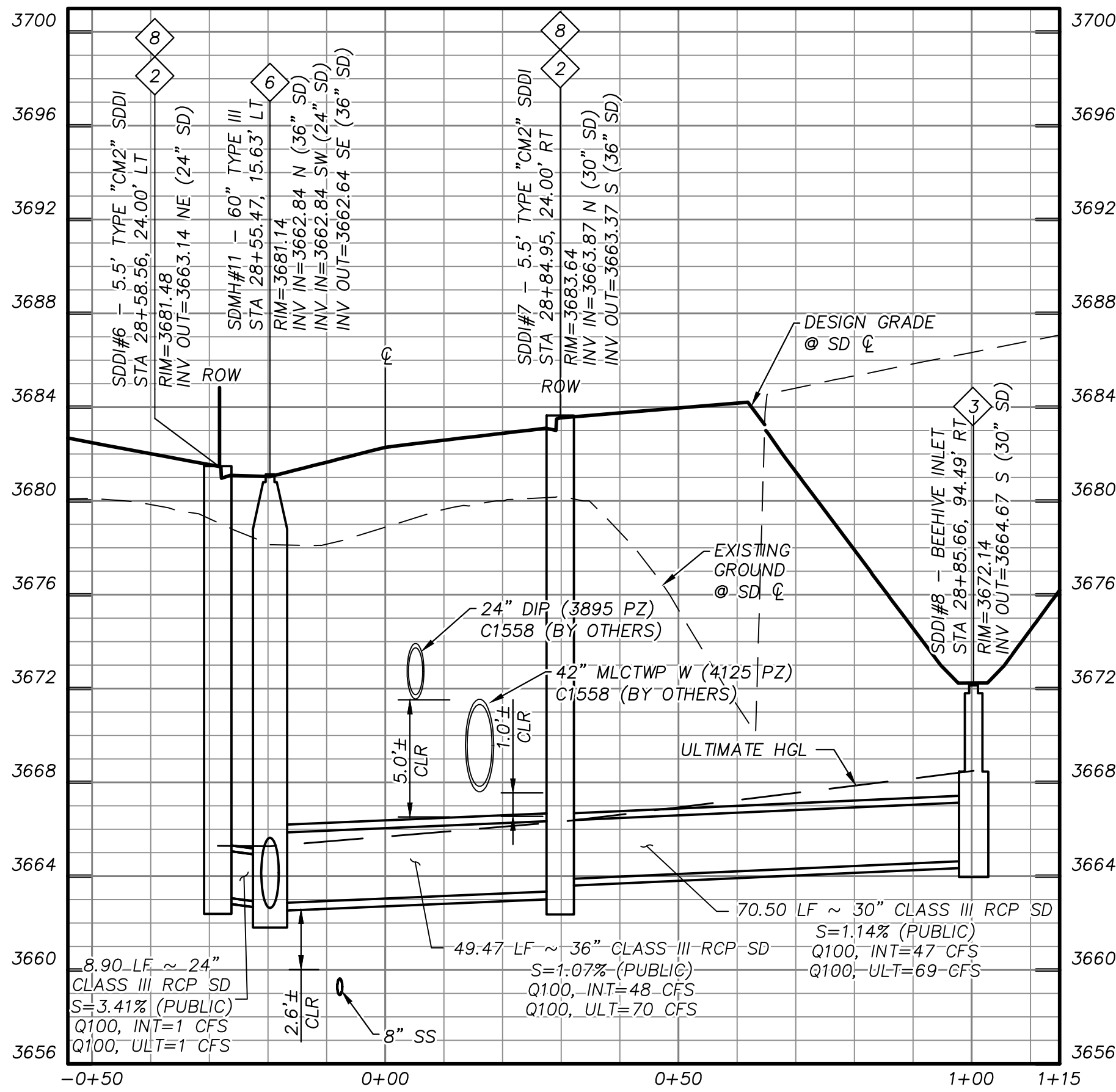


SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET X)

**PARCEL J DRAINAGE SWALE
PLAN AND PROFILE**

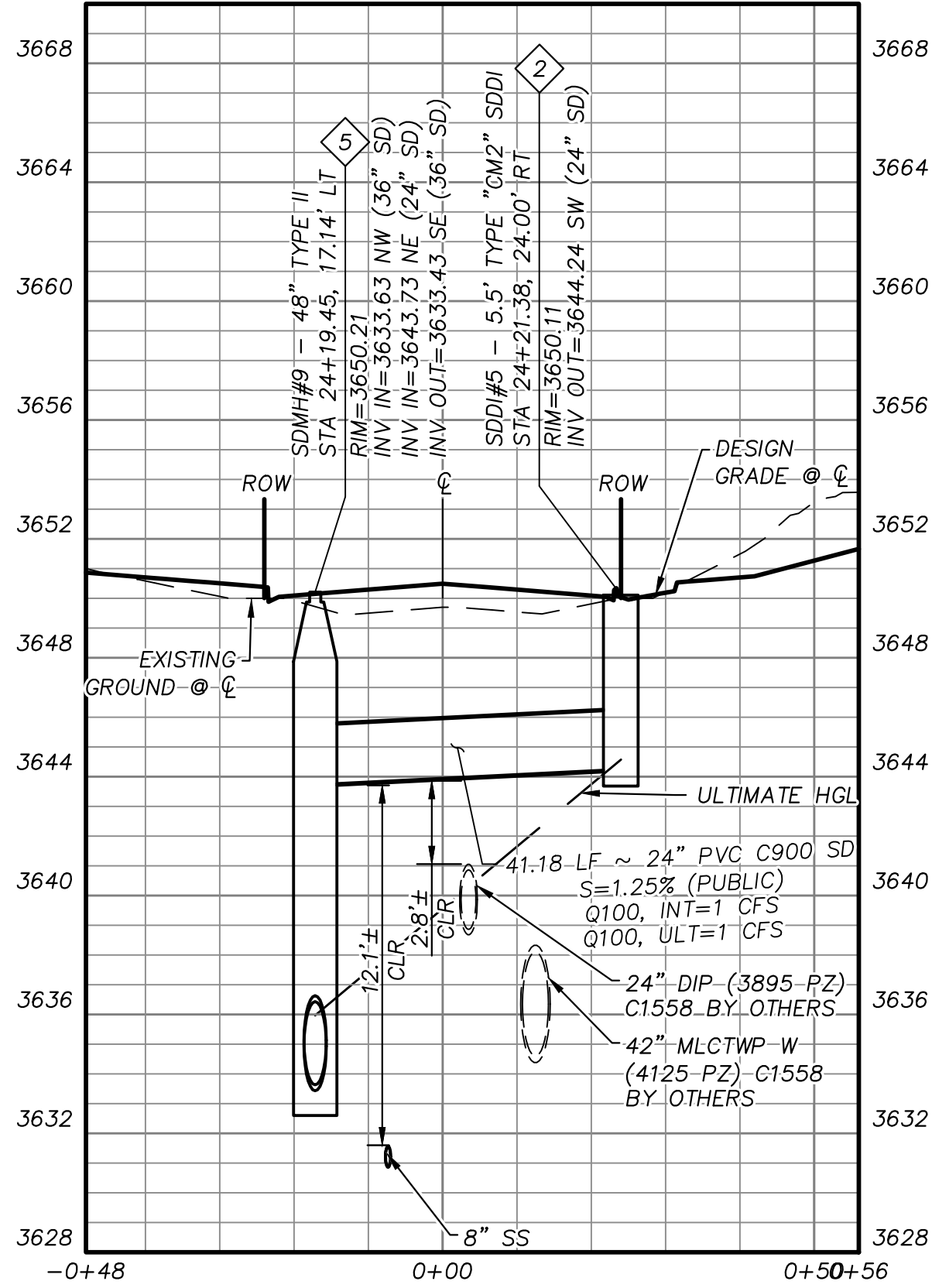
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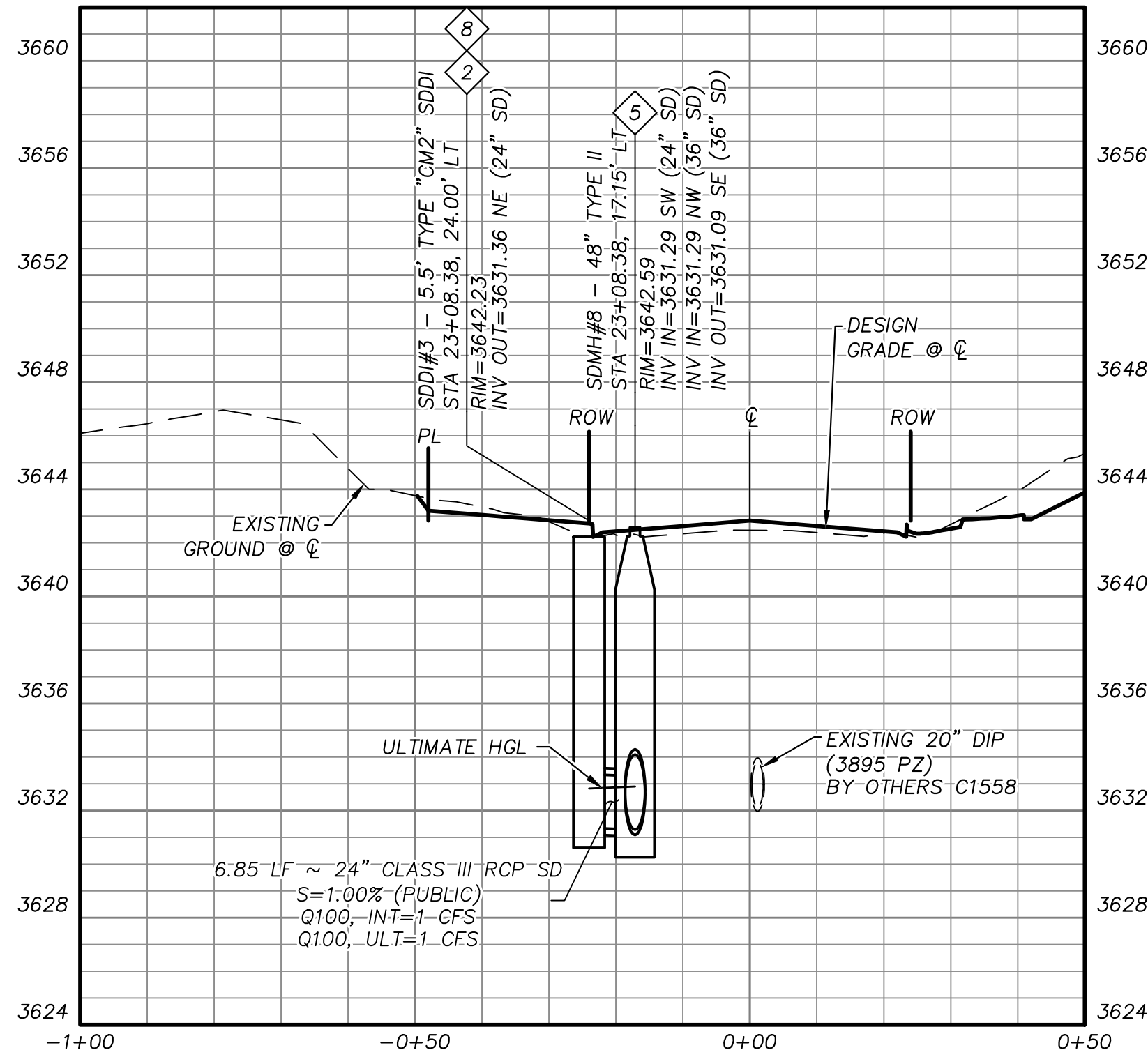
STORM DRAIN LATERAL DETAIL

"SRD" STA: 28+64 SEE SHEETS 10 AND 11



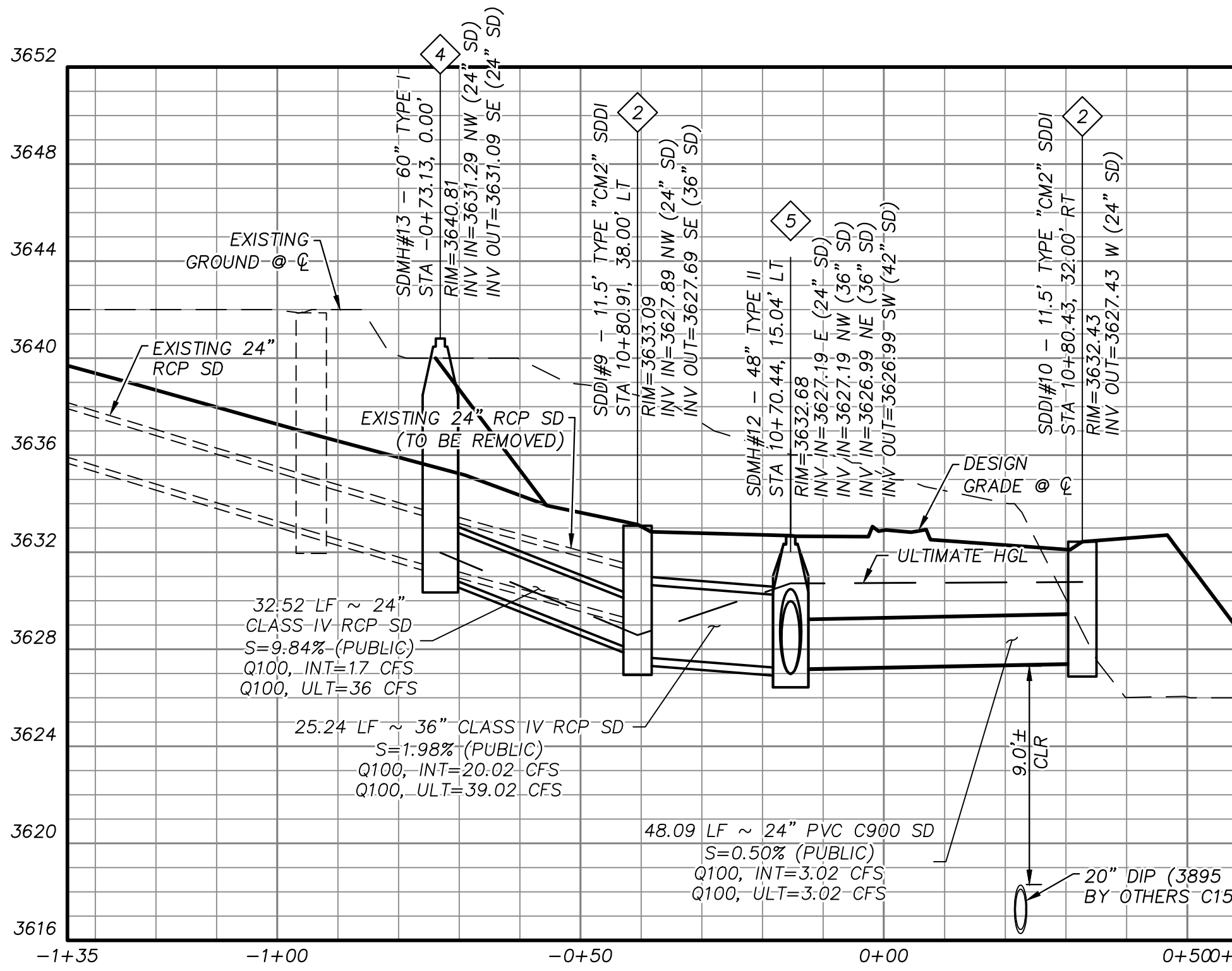
STORM DRAIN LATERAL DETAIL

"SRD" STA: 24+11 SEE SHEET 14



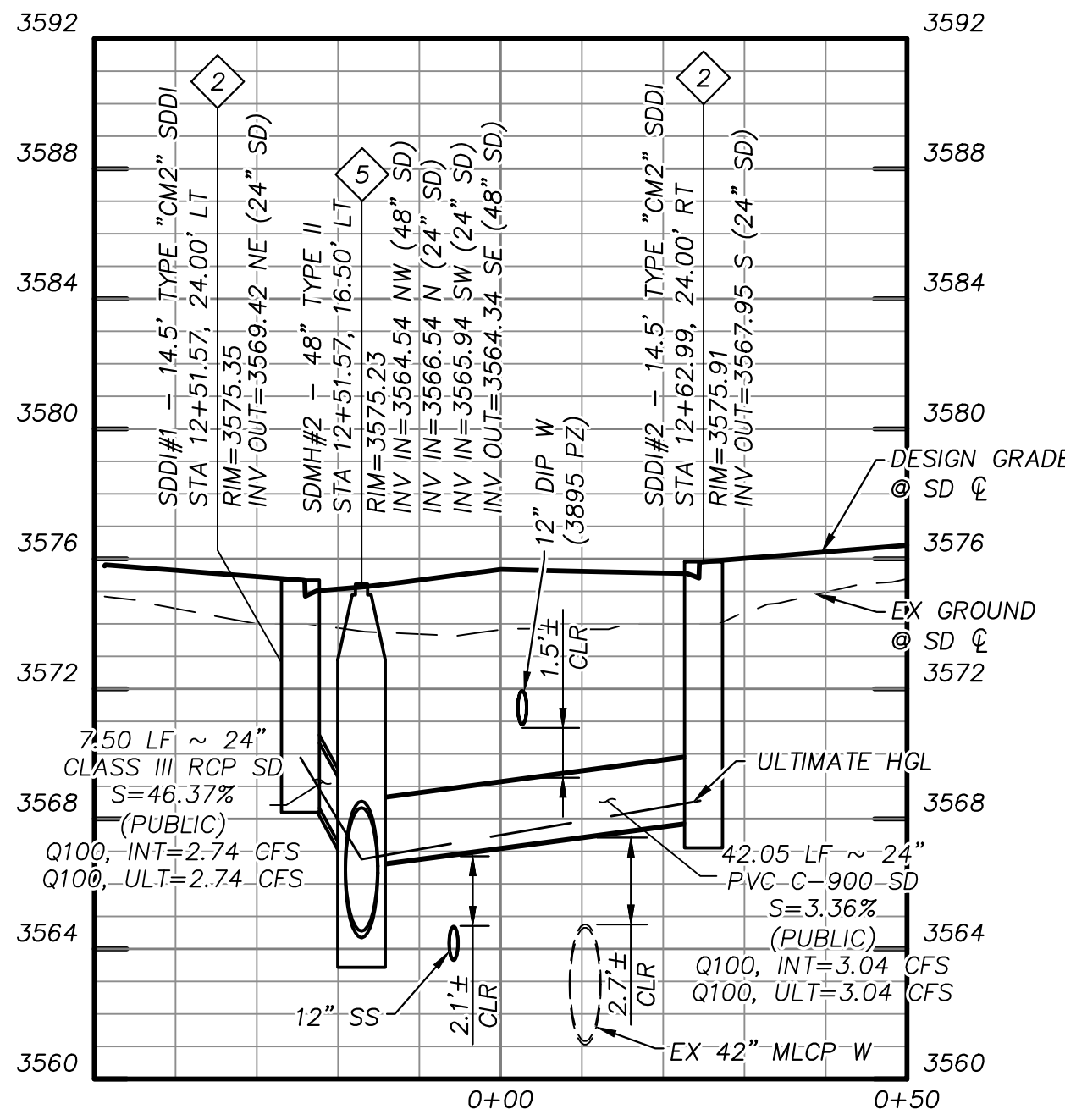
STORM DRAIN LATERAL DETAIL

"SRD" STA: 23+08 SEE SHEET 14



STORM DRAIN LATERAL DETAIL

"GPB" STA: 10+73 SEE SHEET 14 & 22



STORM DRAIN LATERAL DETAIL

"SRD" STA: 12+62 SEE SHEET 18

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
3. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET
4. INSTALL 60" TYPE I SD MANHOLE PER CCAUSD #403
5. INSTALL 48" TYPE II SD MANHOLE PER CCAUSD #405.2
6. INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406
7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
8. DEEP DROP INLET PER DETAIL "C" SHEET 29.

SEWER CONSTRUCTION NOTES

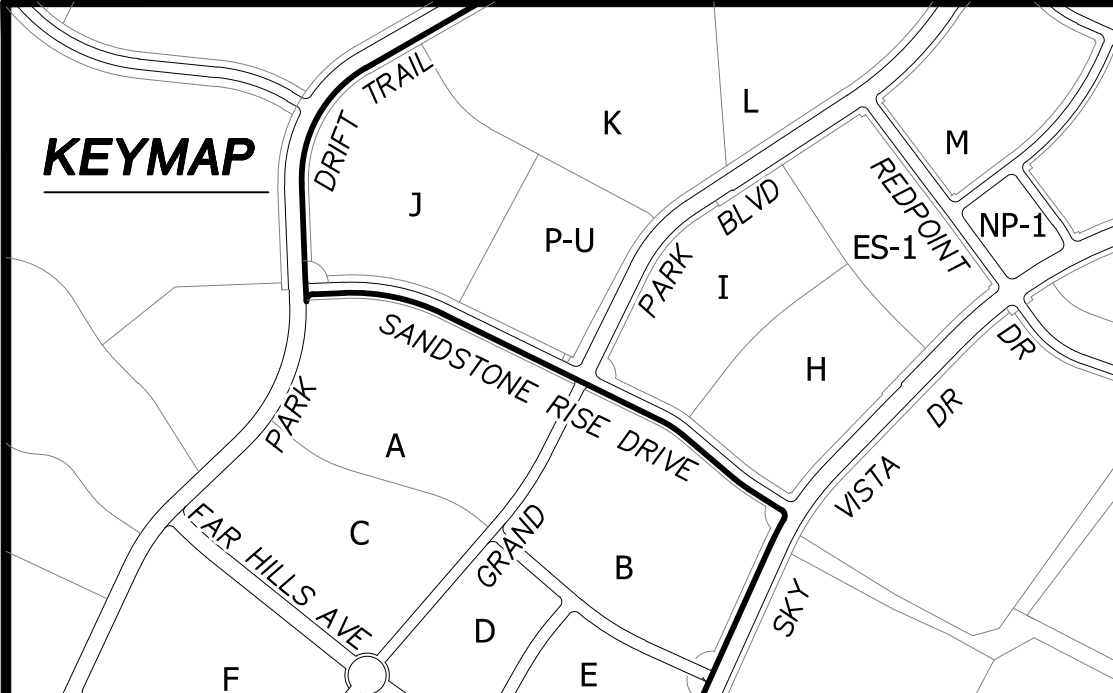
1. INSTALL SEWER MANHOLE WITH WATER TIGHT JOINTS PER DCSWCS SD-1, SD-3, SD-4 AND SD-5 WITH SINGLE 24" LID. SIZE PER PLAN.
2. INSTALL PVC C-900 SEWER MAIN PER DCSWCS SD-17 & SD-15 (PUBLIC). SIZE PER PLAN.
3. STUB AND CAP SEWER PIPE. INSTALL THRUST BLOCK (1 CUBIC FT. MINIMUM).
4. INSTALL 6" LATERAL PER DCSWCS SD-22, SD-23 AND SD-25

WATERLINE CONSTRUCTION NOTES

1. INSTALL WATER MAIN WITH MARKER BALLS PER UDACS PLATES #15, #17 AND #19
2. INSTALL GATE VALVE PER UDACS PLATES #30 AND #39
3. INSTALL FIRE HYDRANT WITH APPURTENANCES (CONCRETE PAD, LATERAL, VALVE, AND TEE) PER UDACS PLATE #30, #31, #39, #40 AND DETAIL "C" ON SHEET 28
4. INSTALL CAP AND 2" MANUAL BLOWOFF ASSEMBLY PER UDACS PLATE #36
5. INSTALL TEE W/ VALVE AND LATERAL PER UDACS PLATES #17, #19, #30, #31 AND #39
6. INSTALL 5" BEND PER UDACS PLATE #31
7. INSTALL 11.25" BEND PER UDACS PLATE #31
8. INSTALL 1.5" WATER METER AND RPPA PER UDACS PLATES #4 AND #8 AND DETAIL ON SHEET 30
9. INSTALL IN-LINE REDUCER PER UDACS PLATE #30
10. REMOVE CAP AND 2" BLOWOFF AND CONNECT TO EXISTING WATERLINE
11. EXISTING WATER LINE BY OTHERS
12. WATER MAIN JOINT DEFLECTION PER UDACS 2.07.01 AND 2.07.03
13. CONNECT TO EXISTING BLIND FLANGE
14. ADJUST EXISTING FACILITY TO GRADE PER UDACS
15. INSTALL 45" VERTICAL BEND PER UDACS PLATE #31

ROADWAY CONSTRUCTION NOTES

1. SAWCUT AND MATCH EXISTING
2. INSTALL IRRIGATION SLEEVES PER DETAIL "E" SHEET 28
3. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
4. CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
5. FUTURE SIDEWALK BY OTHERS
6. CONSTRUCT COMMERCIAL DRIVEWAY PER CCASUD #222.1
7. CONSTRUCT SIDEWALK RAMP, PER DETAIL "A", SHEET 28
8. CONSTRUCT PLANTMIX BITUMINOUS SURFACE OVER TYPE II AGGREGATE BASE PER SOILS REPORT. SEE SHEET 27 FOR TYPICAL PAVEMENT SECTION.
9. CONSTRUCT SIDEWALK RAMP CASE II PER CCAUSD #235 AND DETAIL "B", SHEET 28



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 137065 FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

BASIS OF BEARING

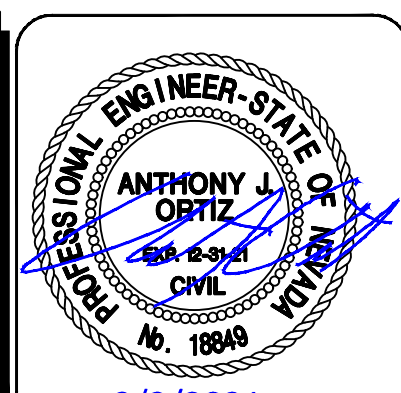
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983. SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK

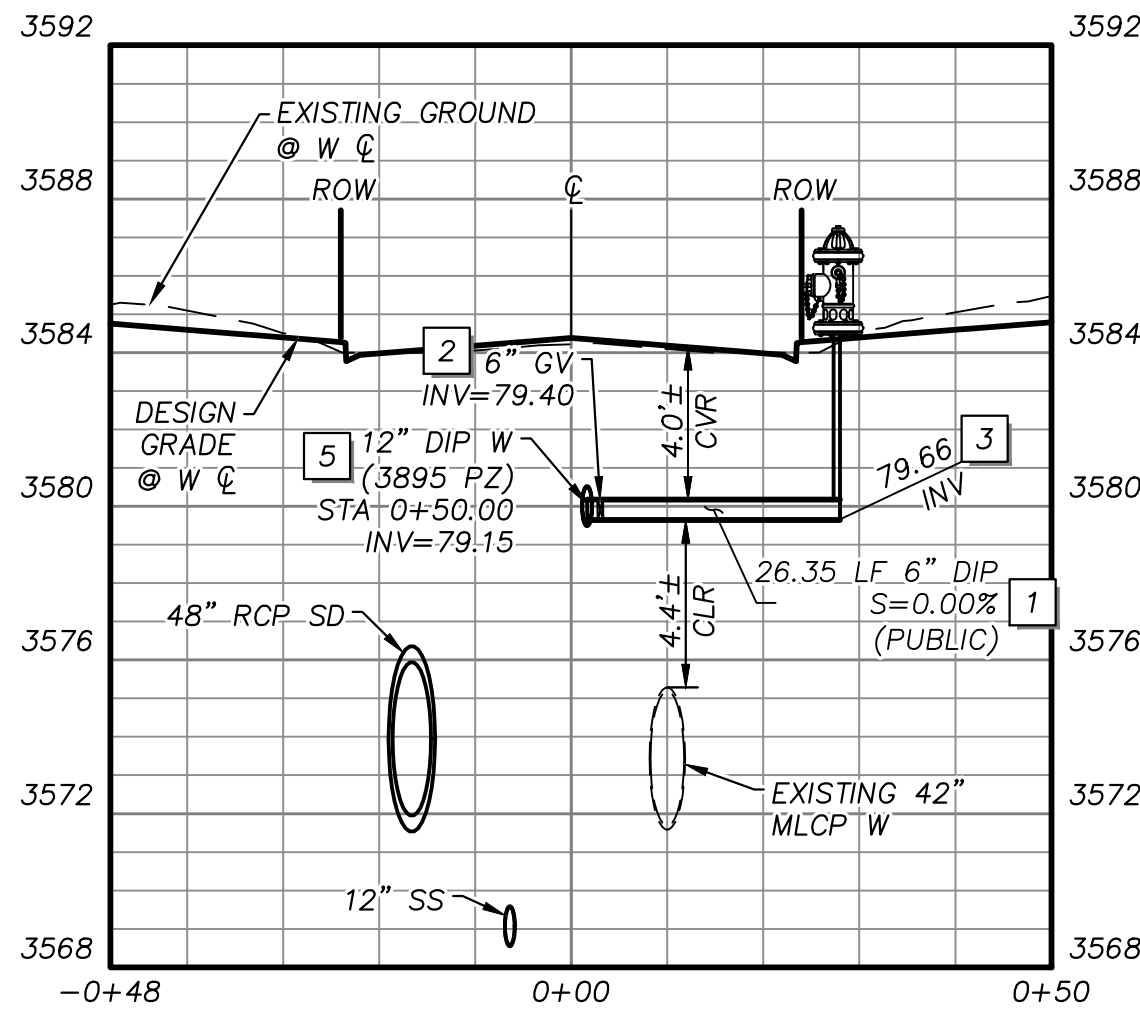
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008) NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET) FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T213,R59E,S03



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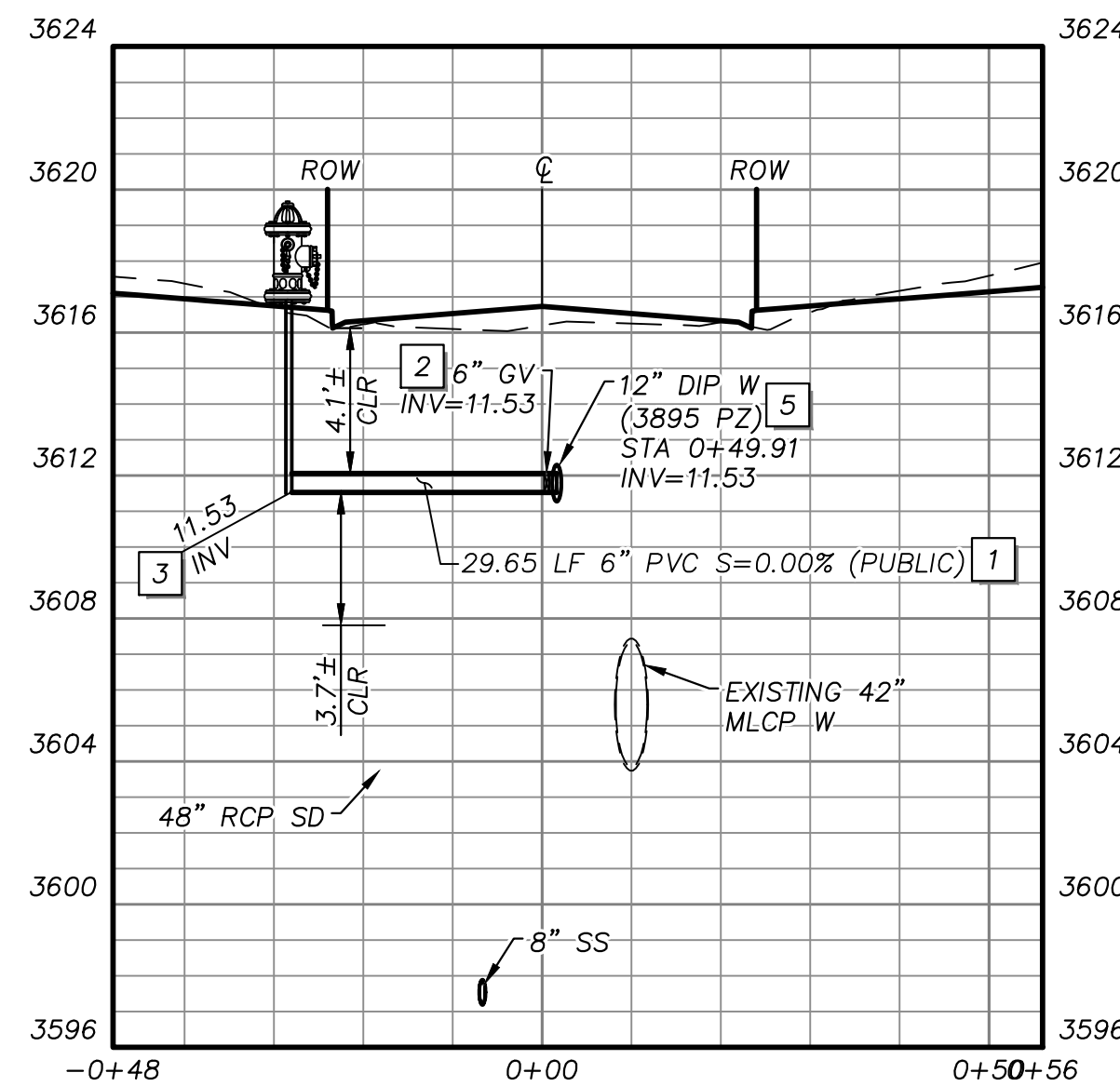
DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
CHECKED BY: T. ORTIZ
HORIZ: N.T.S.
VERT: N.T.S.
1075132
L20-00453
DATE: MARCH, 2021
DRAWING NO.
24/32
JOB NO. 100063656



FIRE HYDRANT LATERAL DETAIL

"SRD" STA: 14+04 SEE SHEET 19

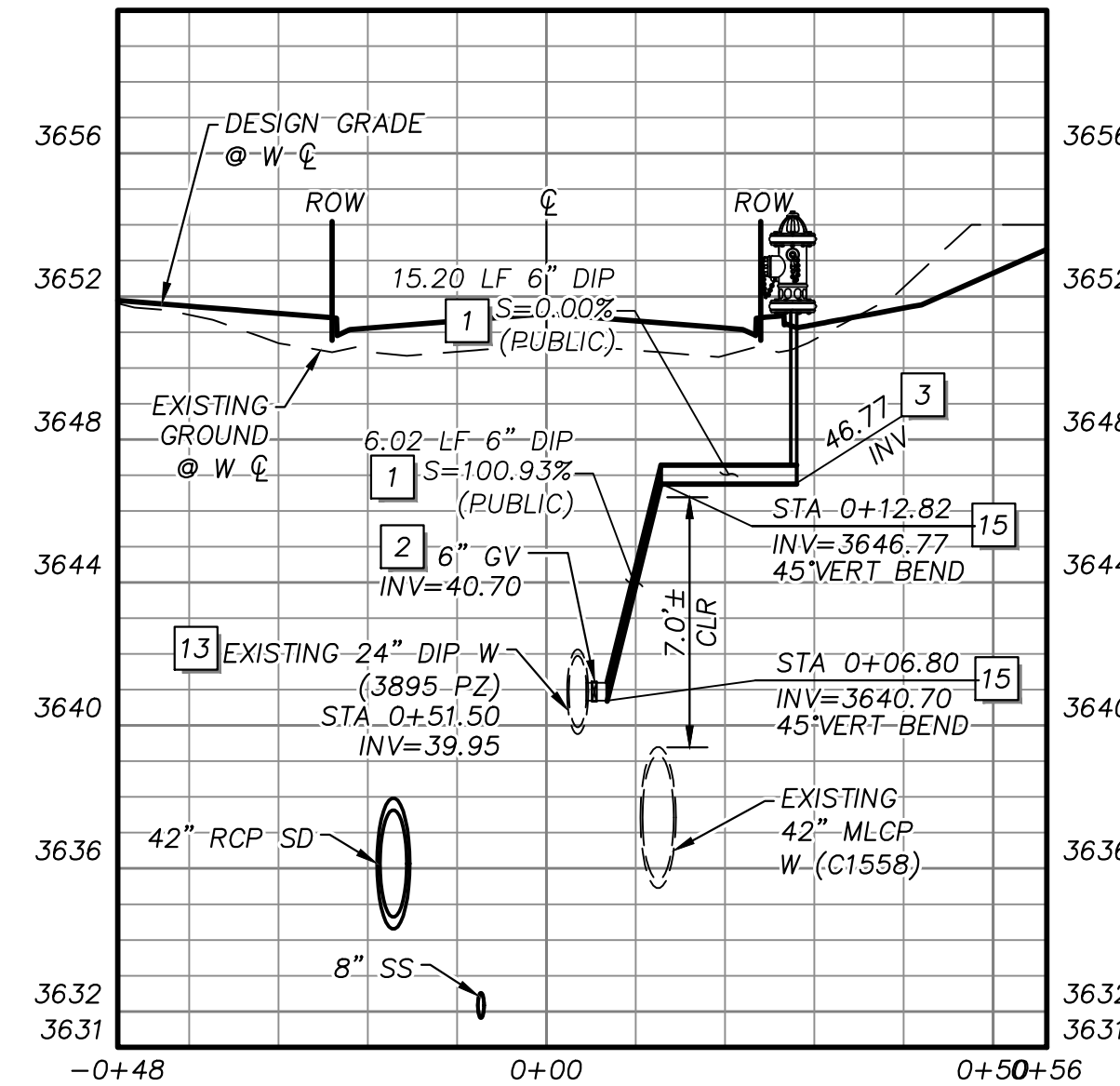
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FIRE HYDRANT LATERAL DETAIL

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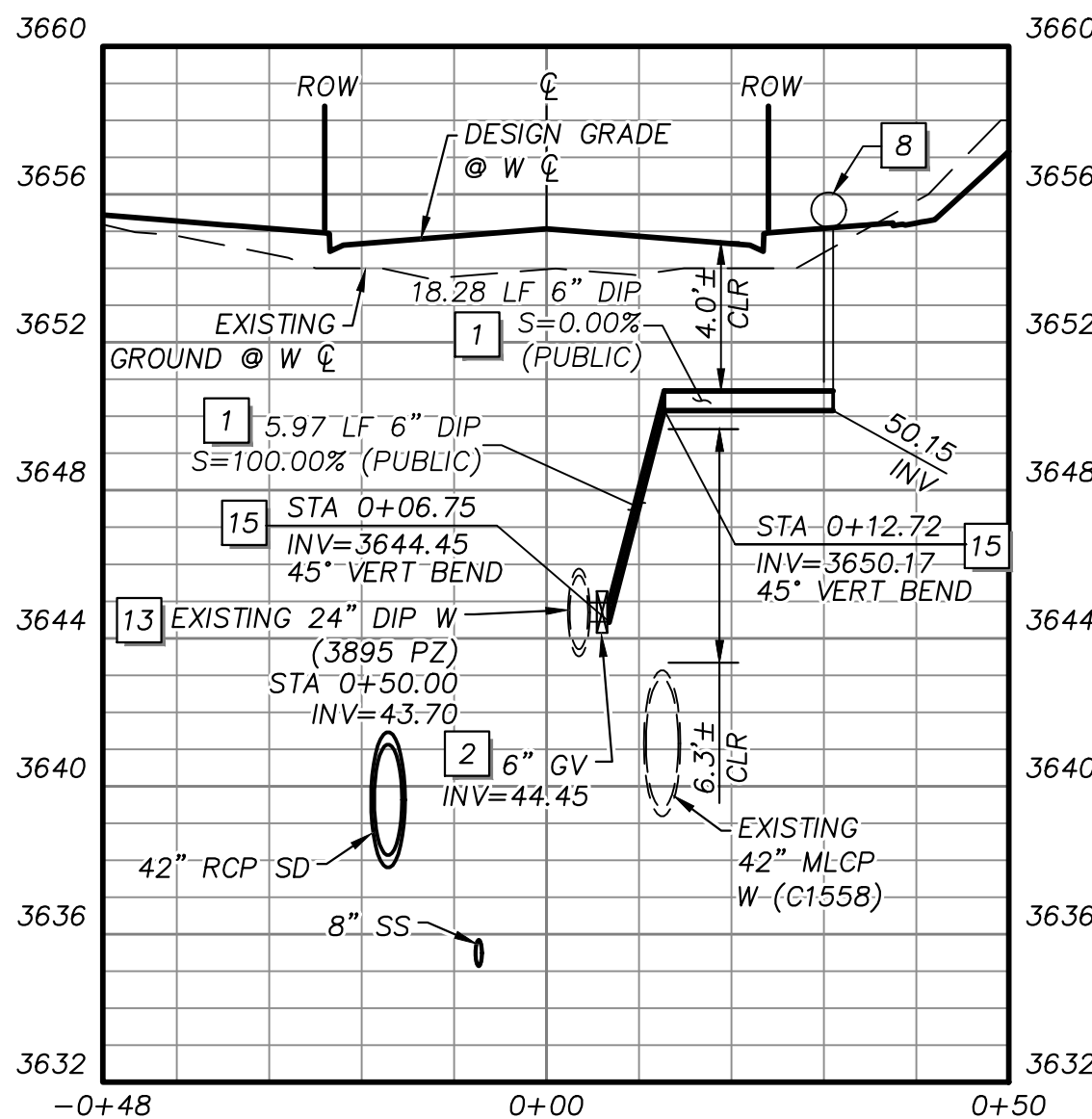
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FIRE HYDRANT LATERAL DETAIL

"SRD" STA: 24+25 SEE SHEET 13

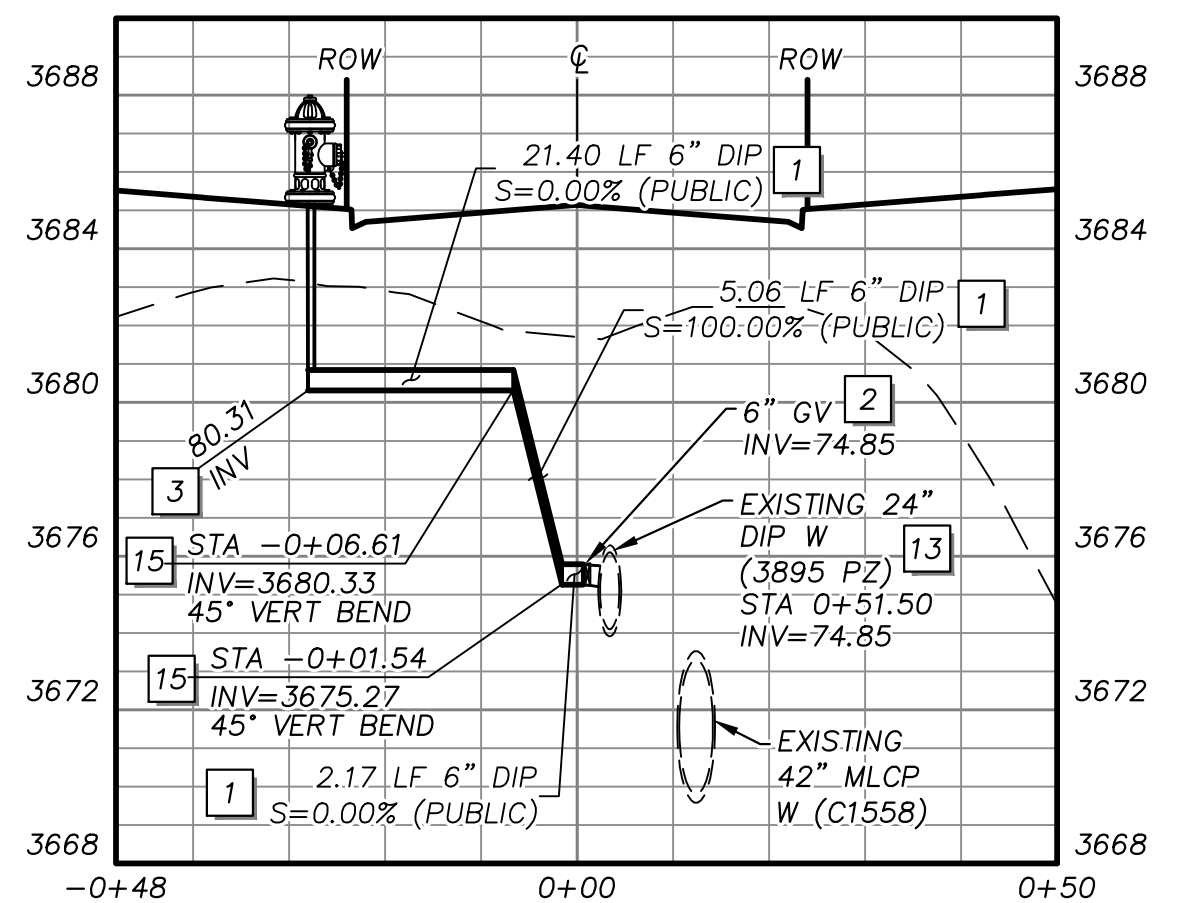
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IRRIGATION METER LATERAL DETAIL

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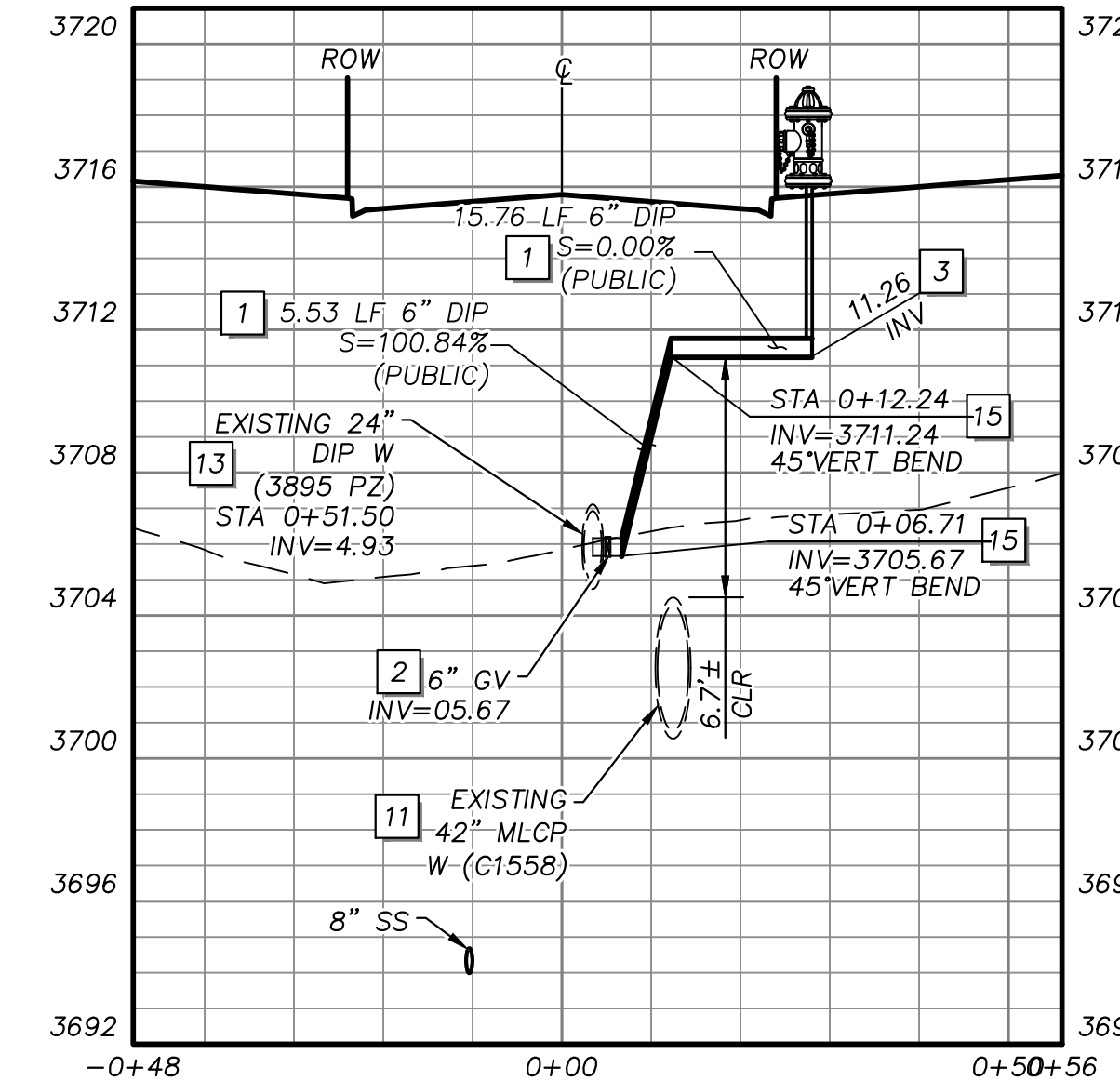
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26



FIRE HYDRANT LATERAL DETAIL

"SRD" STA: 29+04 SEE SHEET 11

E
26



FIRE HYDRANT LATERAL DETAIL

"SRD" STA: 33+29 SEE SHEET 9

F
26

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL STORM DRAIN. SEE SHEET 5 FOR ADDITIONAL STORM DRAIN NOTES AND INFORMATION.
2. INSTALL TYPE "CM2" DROP INLET PER CCAUSD #412.1, #422 & #421. LENGTH PER PLAN
3. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET
4. INSTALL 60" TYPE I SD MANHOLE PER CCAUSD #403
5. INSTALL 48" TYPE II SD MANHOLE PER CCAUSD #405.2
6. INSTALL 60" TYPE III SD MANHOLE PER CCAUSD #406
7. STUB & PLUG STORM DRAIN FOR FUTURE CONNECTION PER MANUFACTURER'S PLUG, OR APPROVED EQUAL
8. DEEP DROP INLET PER DETAIL "C" SHEET 29.

SEWER CONSTRUCTION NOTES

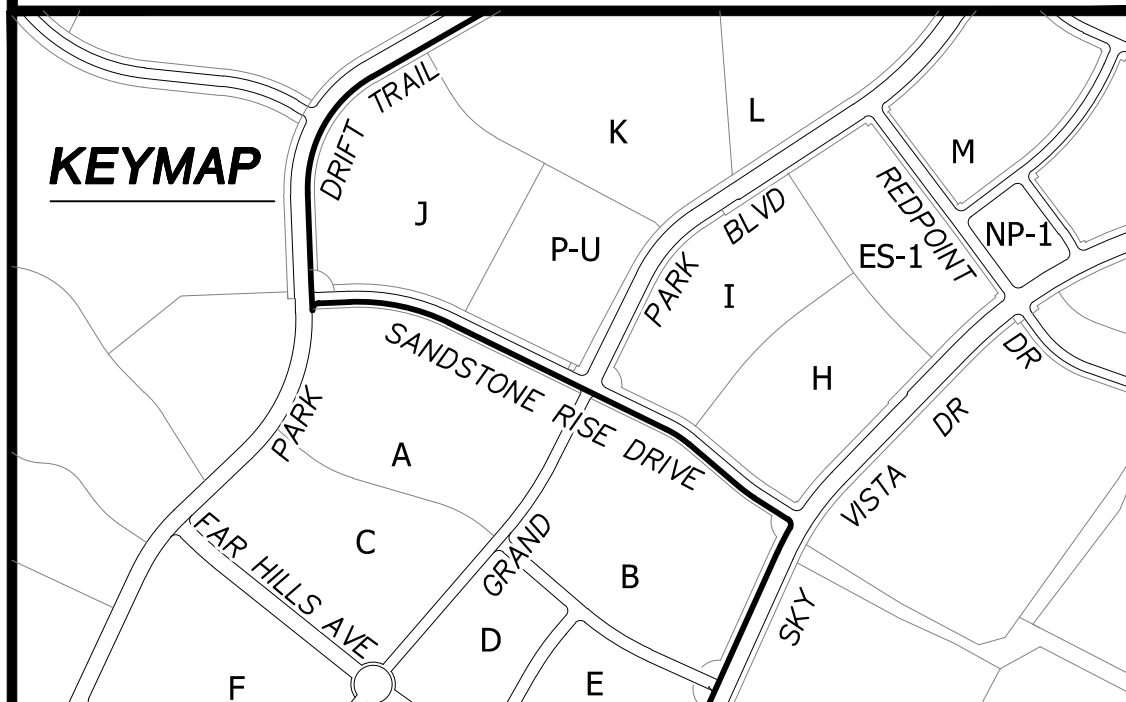
1. INSTALL SEWER MANHOLE WITH WATER TIGHT JOINTS PER DCSWCS SD-1, SD-3, SD-4 AND SD-5 WITH SINGLE 24" LID. SIZE PER PLAN.
2. INSTALL PVC C-900 SEWER MAIN PER DCSWCS SD-17 & SD-15 (PUBLIC). SIZE PER PLAN.
3. STUB AND CAP SEWER PIPE. INSTALL THRUST BLOCK (1 CUBIC FT. MINIMUM).
4. INSTALL 6" LATERAL PER DCSWCS SD-22, SD-23 AND SD-25

WATERLINE CONSTRUCTION NOTES

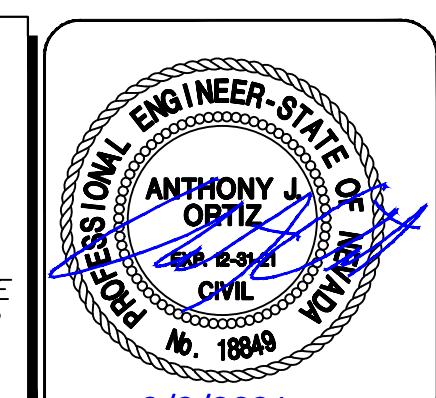
1. INSTALL WATER MAIN WITH MARKER BALLS PER UDACS PLATES #15, #17 AND #19
2. INSTALL GATE VALVE PER UDACS PLATES #30 AND #39
3. INSTALL FIRE HYDRANT WITH APPURTENANCES (CONCRETE PAD, LATERAL, VALVE, AND TEE) PER UDACS PLATE #30, #31, #39, #40 AND DETAIL "C" ON SHEET 28
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8. INSTALL 1.5" WATER METER AND RPPA PER UDACS PLATES #4 AND #8 AND DETAIL ON SHEET 30
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13. CONNECT TO EXISTING BLIND FLANGE
14. ADJUST EXISTING FACILITY TO GRADE PER UDACS
15. INSTALL 45° VERTICAL BEND PER UDACS PLATE #31

ROADWAY CONSTRUCTION NOTES

1. SAWCUT AND MATCH EXISTING
2. INSTALL IRRIGATION SLEEVES PER DETAIL "E" SHEET 28
3. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD #216
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DESIGNED BY: G. BLAKE
DRAWN BY: G. BLAKE
DATE: MARCH, 2021
CHECKED BY: T. ORTIZ
DRAWDING NO.:
VERT. N.T.S.
10751512
L20-00453
26/32
JOB NO. 100063656

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 137065 FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

BASIS OF BEARING

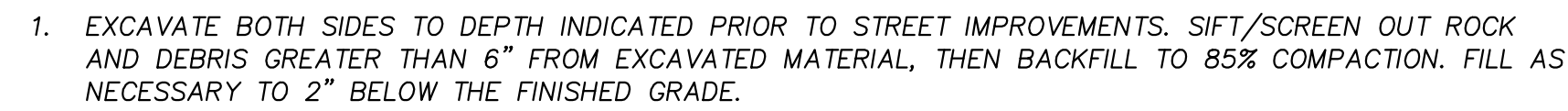
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BENCHMARK

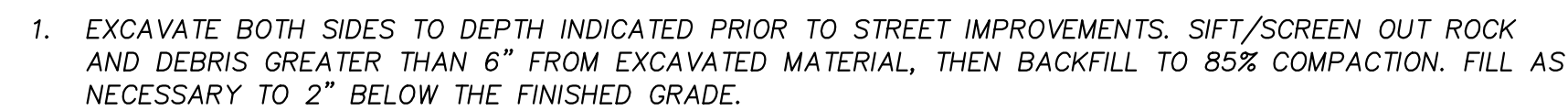
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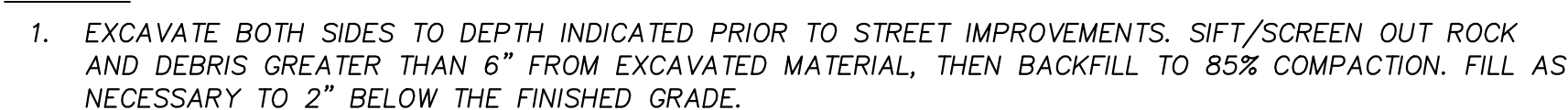
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N.T.S.



N.T.S.



N.T.S.

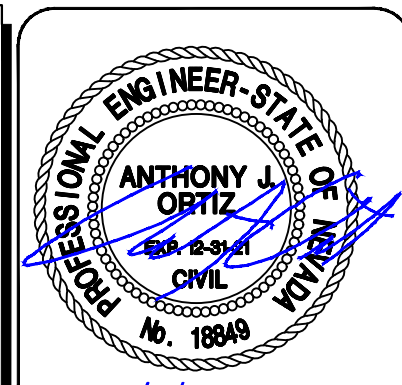


GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

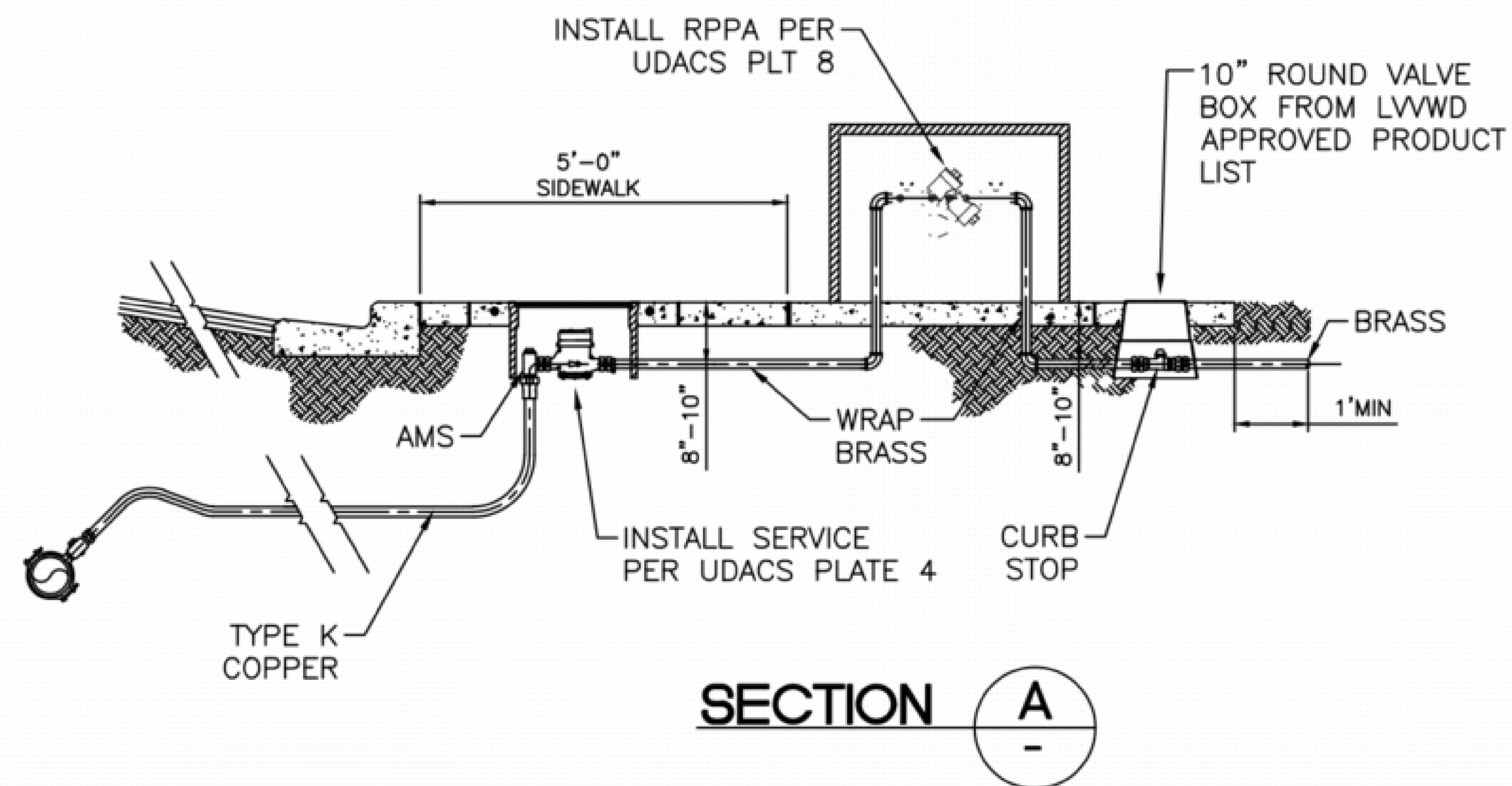
CITY OF LAS VEGAS BENCHMARK:
D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS
(3,246.63 FEET)
FND USC&GS DISC SET IN ROCK
RIDGE 150' SOUTH OF CHARLESTON
BLVD. & WEST OF DETENTION BASIN.
T21S,R59E,S03



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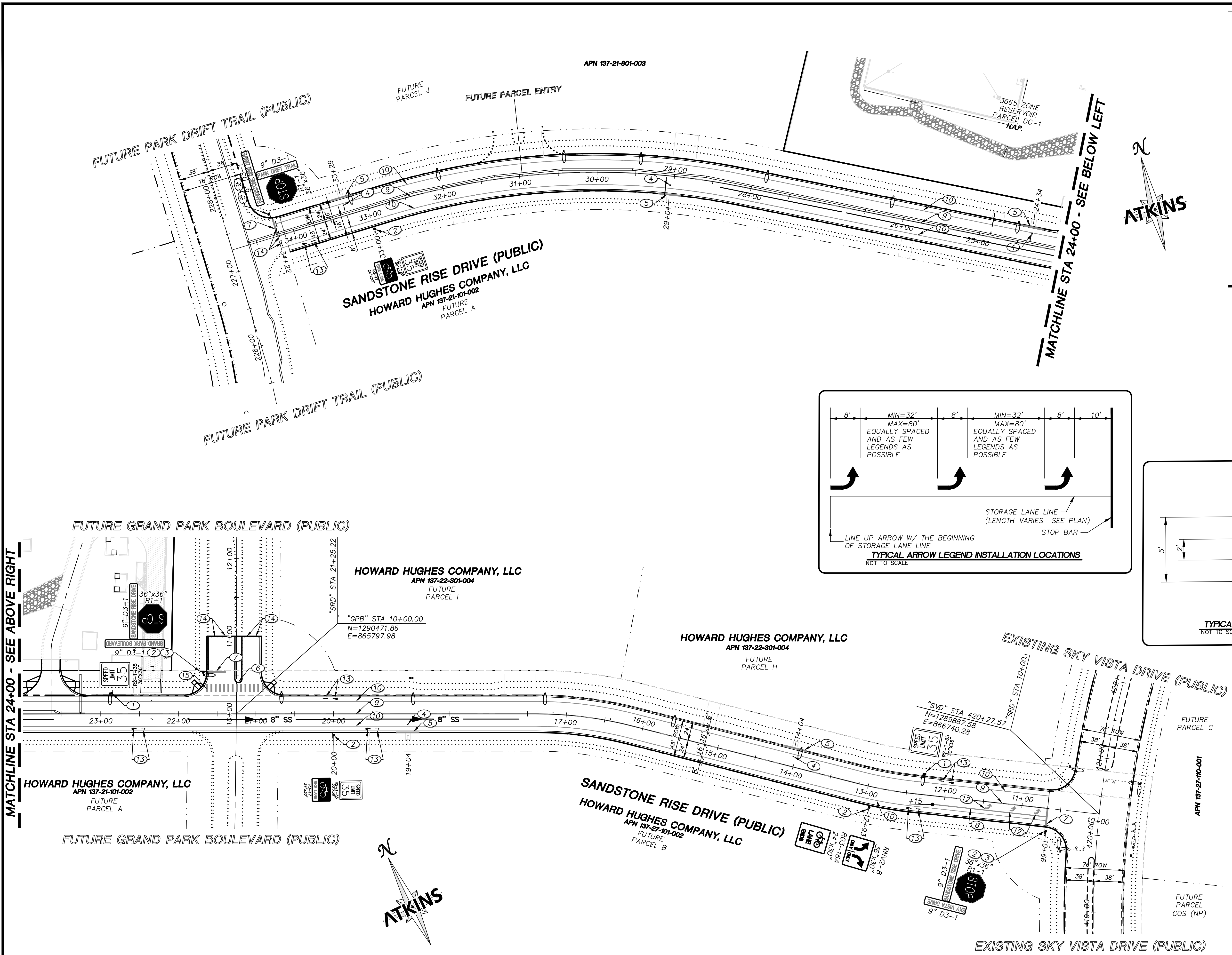


DESIGNED BY: G. BLAKE	DRAWN BY: G. BLAKE	CHECKED BY: T. ORTIZ	HORIZ.: N.T.S.	VERT.: N.T.S.
10/13132 L20-00453	DATE: MARCH, 2021	DRAWING NO.	27/32	



3/3/2021

DESIGNED BY: G. BLAKE	107Y5132
DRAWN BY: G. BLAKE	L20-00453
CHECKED BY: T. ORTIZ	DATE: MARCH, 2021
HORIZ.: N.T.S.	DRAWING NO.
VERT.: N.T.S.	30/32

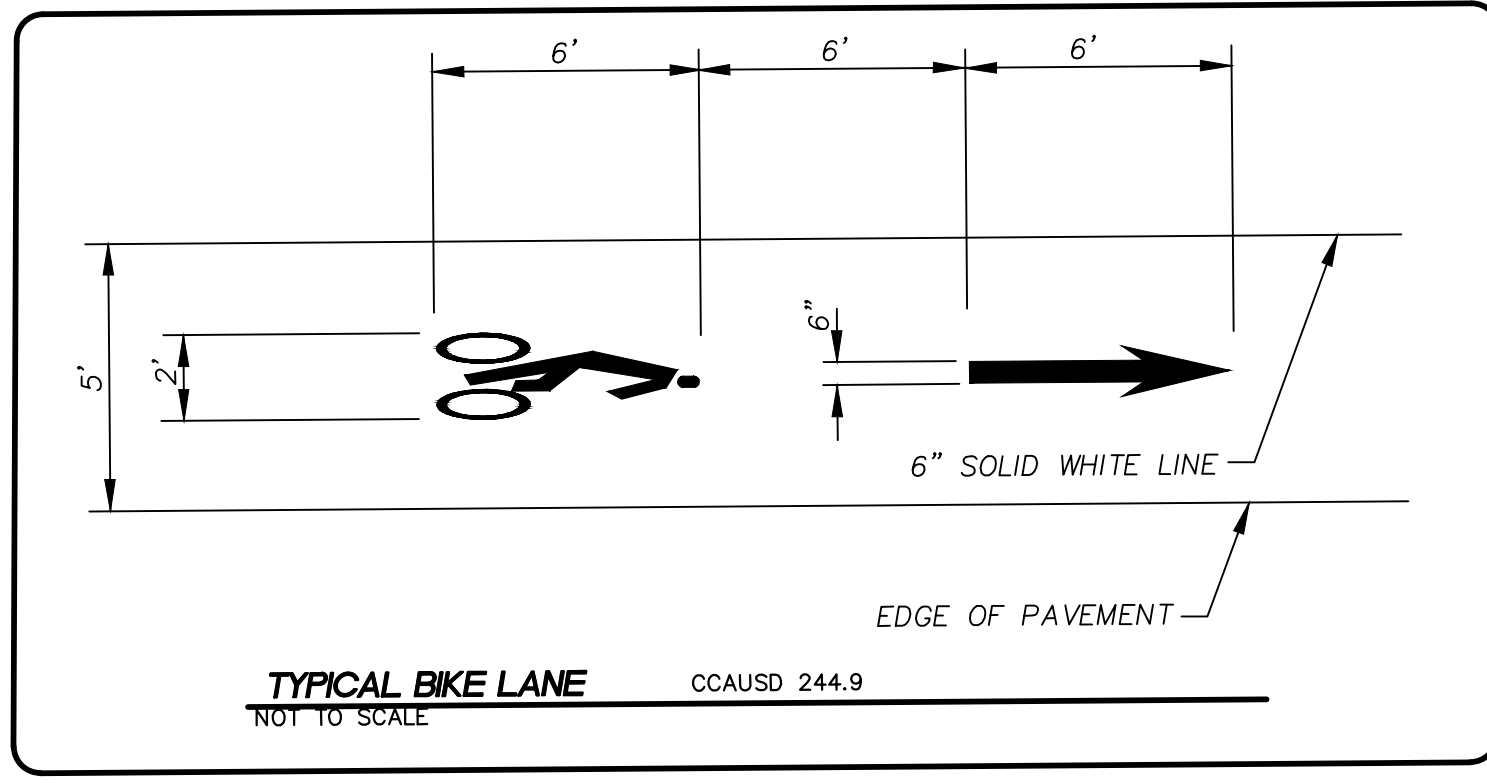
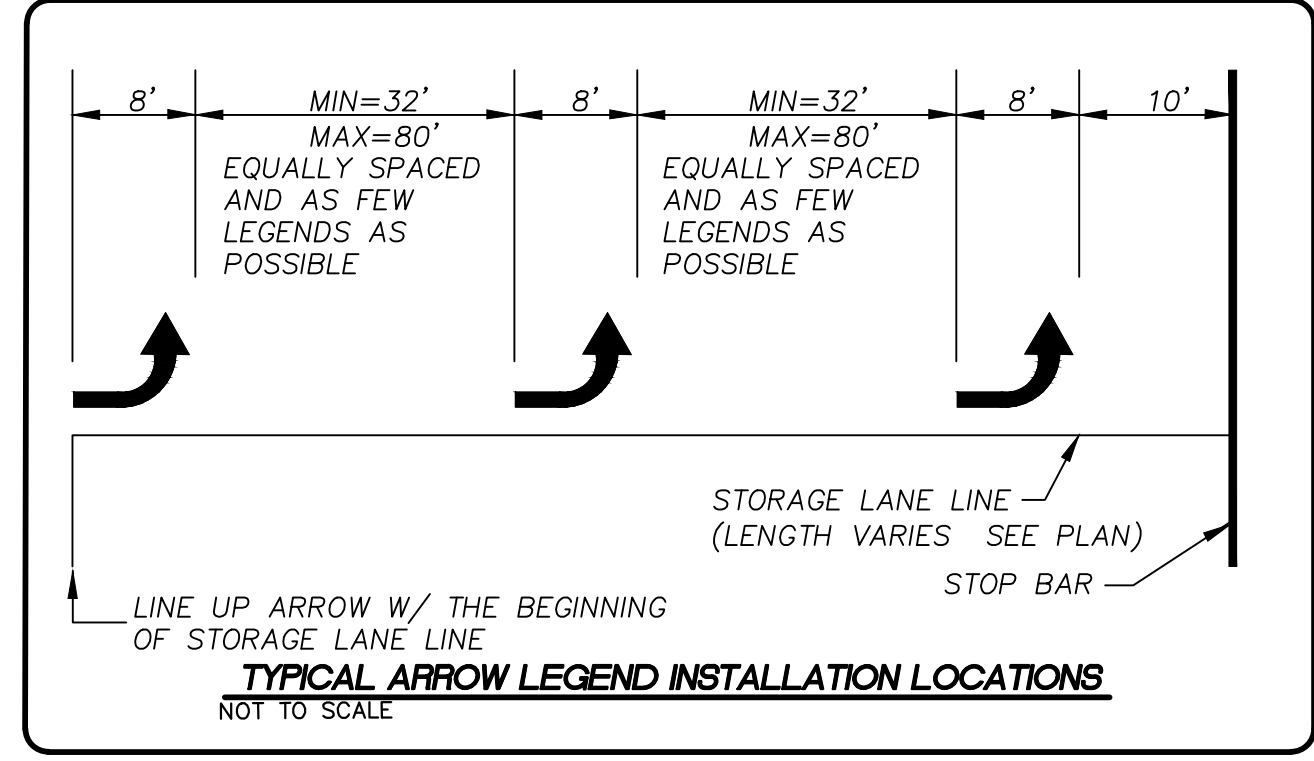


STRIPING AND SIGNAGE CONSTRUCTION NOTES

1. INSTALL SIGN(S) ON STREETLIGHT POLE
2. INSTALL SIGN(S) ON POST PER CCAUSD #249.1
3. INSTALL STREET NAME SIGN (D3-1) PER CCAUSD #250 ON TOP OF STOP SIGN
4. INSTALL BLUE REFLECTIVE MARKER 8' FROM BACK OF CURB
5. PAINT CURB 15' EITHER DIRECTION OF FIRE HYDRANT (30' MINIMUM)
6. INSTALL MEDIAN NOSE MARKER PER CCAUSD #248 WITH R-71 AND TYPE C MARKING ALONG THE MEDIAN ISLAND PER DETAIL (XX).
7. INSTALL 24" SOLID WHITE LINE PER CCAUSD #254 (TYPE 2 PMF)
8. INSTALL STORAGE LANE LINE (RPM) PER CCAUSD #246
9. INSTALL TYPE I CENTERLINE (RPM) PER CCAUSD #244
10. INSTALL 6" SOLID WHITE LINE PER CCAUSD #244.9 (POLUREA LPM)
11. INSTALL 6"x2" SKIP LINE 8' ON CENTER PER CCAUSD #244.9 (POLUREA LPM)
12. INSTALL WHITE TURN ARROW (TYPE 2 PMF) PER MUTCD FIGURE 3B-24
13. INSTALL BIKE LANE LEGEND PER DETAIL THIS SHEET
14. INSTALL TYPE IIIA BARRICADE PER CCAUSD #601 WITH OM4-1 END ON ROAD MARKER
15. INSTALL 24" WIDE SOLID WHITE CROSSWALK LINES USING TYPE 1 PAVEMENT MARKINGS PER CCAUSD #254

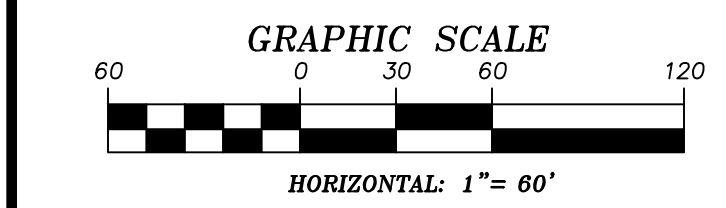
SUMMARY OF QUANTITIES

DESCRIPTION	QUANTITY	UNIT
STREET SIGNS	14	EA
TYPE I CENTERLINE	2,354	LF
24" SOLID WHITE LINE (STOP BAR)	66	LF
6" SOLID WHITE LINE	4,709	LF
RED PAINTED CURB (FIRE HYDRANT)	150	LF
TYPE IIIA BARRICADE	7	EA



MATCHLINE STA 24+00 - SEE ABOVE RIGHT

MATCHLINE STA 24+00 - SEE BELOW LEFT



BASIS OF BEARING

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.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008) NAVD88 ELEVATION: 989.574 METERS (3,246.63 FEET) FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S,R59E,S03

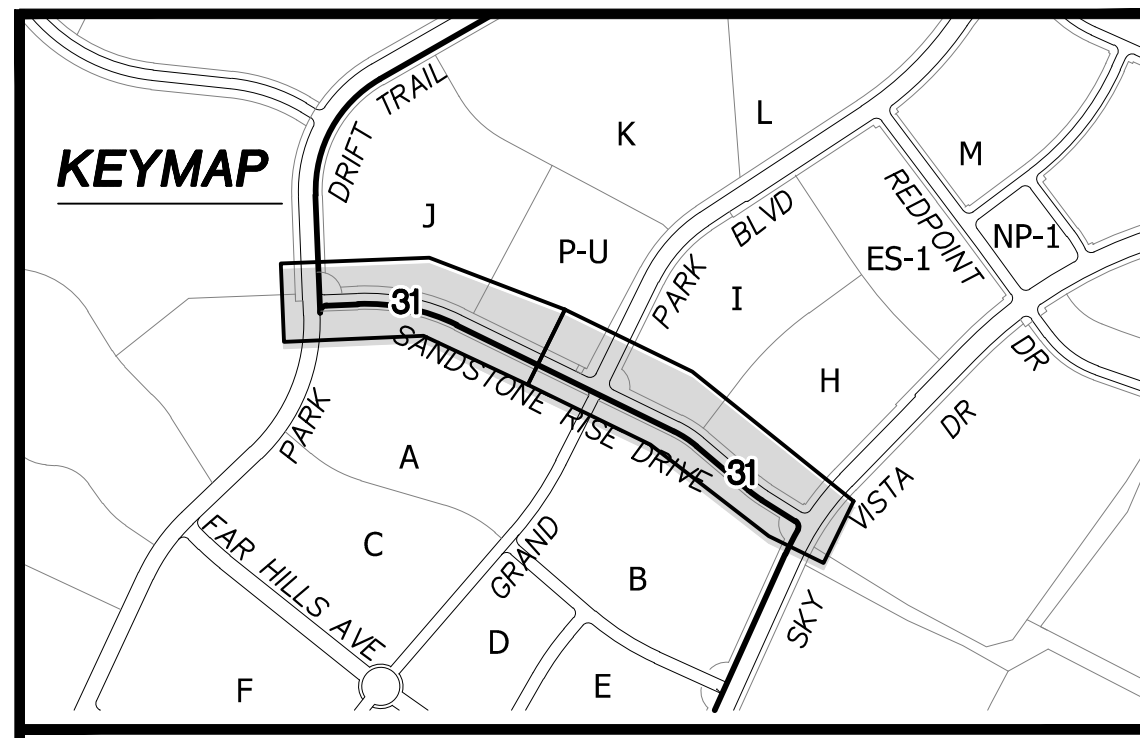
FAST

Call before you Dig
Call 811
1-800-642-2444

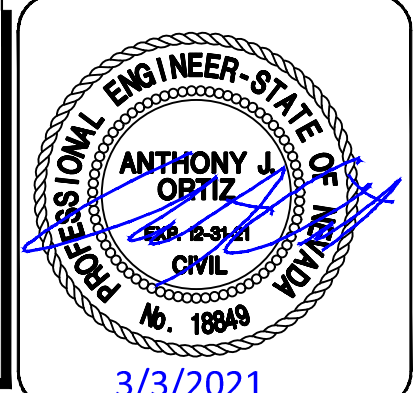
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. ONLY IF YOU KNOW FOR SURE.

CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

EXISTING SKY VISTA DRIVE:
PER VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
CLV# 107V7884



UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS 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 LOCATION.



ATKINS

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SUMMERLIN

TRAFFIC PLAN

SUMMERLIN VILLAGE 25
SANDSTONE RISE DRIVE (STREET M)
SKY VISTA DRIVE TO PARK DRIFT TRAIL (STREET K)

DESIGNED BY:	G. BLAKE
DRAWN BY:	G. BLAKE
CHECKED BY:	G. BLAKE
DATE:	MARCH, 2021
DRAWING NO.	107V15132
DATE:	3/3/2021
DRAWING NO.	32/32

REV.	DESCRIPTION	BY	DATE	APPROVAL

PROJECT: Summerlin Village 25 (Lake Mead to Sky Vista) - V25 Street M (Lake Mead to Sky Vista) - Sheets (3,3656-18-TRAF-T1.dwg LAYOUT: 32 Mar 04, 2021 - 4:42PM)

JOB NO. 100063656