DS #: 5249

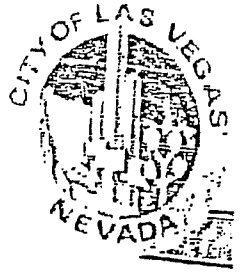
APN: 139.28.210.007

PROJECT: Mabel Hoggard Elementary School

SUBMITTAL: Supplement

SCANNED BY/DATE:

CHECKED BY/DATE:



| CITY OF LAS VEGAS<br>INTER-OFFICE MEMORANDUM | | | DATE:<br>June 23, 2020 |
|---|---|---|---|
| TO:<br>**Land Development Services**<br>Department of Building & Safety | | | FROM:<br>Albert Sung, P.E.<br>Flood Control Project Engineer<br>Department of Public Works |
| **SUBJECT:** | Drainage Study for:<br>**Mabel Hoggard Elementary School** | | **COPIES TO:**<br>Atkins |
| **Cross Streets:** | NEC of Washington Blvd. & Tonopah Road | | Clark County School District |
| **File Number:** | F:\Depot\DSMemos\DS5249C.doc | | Bart Anderson, P.E., DevCo |
| **Parcel Number:** | 139-28-210-007 | | |
| **Zoning Action:** | SDR-76079; VAR-78137; VAR-76077 & PMP-78198 | | |
| **FEMA Flood Zone** | YES | NO **X** | |
| **Proposed Storm Drain** | YES **X** | NO | |

| HISTORY | DATE RECEIVED | DATE REVIEWED | COMMENTS | REVIEW FEES | FEES PAID Payment Trn # |
|---|---|---|---|---|---|
| 1st Submittal | 2/13/2020 | 3/9/2020 | Not Approved | $400.00 | 3744256: $400 |
| 2nd Submittal (Fee Paid on 5/6/2020) | 4/2/2020 & 5/6/2020 | 5/19/2020 | Not Approved | $400.00 | 3840667: $400 |
| Supplement | 6/1/2020 & 6/15/2020 | 6/23/2020 | See Comments Below | N/C | N/C |
| | | | **TOTAL FEES (LDDRS):** | **$800.00** | **----** |

**REMARKS:**

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

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

**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 drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a 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.

**END OF REMARKS**
HDR/AYS

T/R/S: T20S/R61E/28
AREA M-28

## Albert Sung

**From:** Alan Imperial [Construction Management] <imperab@nv.ccsd.net>
**Sent:** Tuesday, June 9, 2020 8:01 PM
**To:** Albert Sung
**Cc:** Klein, Janelle; Ortiz, Tony; Cameron Tate
**Subject:** Hoggard ES Phase II Replacement - Onsite Drainage

**CAUTION**: This email originated from an **External Source**. Please **use caution** before opening attachments, clicking links, or responding to this email. **Do not sign-in with your City of Las Vegas account credentials.**

Good afternoon Albert,
Per our phone discussion earlier today about the drainage comment that refers to ponding occurring if the drain grates are 100% clogged. Clark County School District ("The District") acknowledges that all onsite storm drainage and associated facilities are owned by the District and to be maintained by the District.

Please feel free to contact me if you have any comments or questions.

Thank you,

**Alan Imperial**, Project Manager
Construction Management
**Clark County School District**
1180 Military Tribute Place
Henderson, NV 89070
O 702.799.8710 x5309
C 702.497.9464
Email: imperab@nv.ccsd.net

SNC·LAVALIN

ATKINS
Member of the SNC-Lavalin Group

# TRANSMITTAL

**Date:** 06/15/2020 **Job No.:** 100067217

| To: | Regarding: |
|---|---|
| City of Las Vegas<br>333 N Rancho Dr<br>Las Vegas NV | Mabel Hoggard ES<br>TDS |

| Transmitted: | For: | |
|---|---|---|
| ☐ Via Overnight | ☐ Approval | ☐ Information |
| ☒ Via Delivery | ☒ Review/Comment | ☐ Return after Use |
| ☐ Via Mail | ☐ Your Use | ☒ Per your request |

**The Following:**

1- TDS Supplement Report- Bound
2- 1-CD

**Comments:**

**If you have any questions, please contact me at: 702-551-0370 or caron.milstead@atkinsglobal.com**

**Thank You.**

**From:** _____

Caron Milstead
Project Assistant III/Processor

(For Deliveries Only)
**Received By:** _____ _____
**Date**

Recd: 6/15/20
DS05249
M-28
N/C

ATKINS

# Supplement to the Technical Drainage Study for Mabel Hoggard Elementary School

950 North Tonopah Drive
Las Vegas, Nevada

APN: 139-28-210-007


**Prepared by:**
**Atkins**
2270 Corporate Circle, #200
Henderson, NV 89074
(702) 551-0365


**Prepared for:**
**Clark County School District**
Real Property Mgt.
1180 Military Tribute Pl.
Henderson, NV 89074
(702) 799-5214

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL

# DRAINAGE STUDY INFORMATION FORM

Name of Development: Mabel Hoggard School Replacement Date: June 12, 2020

Location of Development: a) Descriptive (Cross Streets) North/South: Tonopah

East/West: Washington

b) Section: 28 Township: 20 South Range: 61 East

c) APN : 139-28-210-007

Name of Owner: School Board of Trustees c/o Clark County School District real Property Management

Telephone No.: (702) 799-5214 Fax No.: E-Mail Address:

Address: 1180 Miliatry Tribute Pl., Henderson, NV 89074

**Contact Person-Name:** Janelle Klein, PE **Telephone No.:** (702) 551-0365

* **E-Mail Address:** Janelle.Klein@atkinsglobal.com **Fax No.:** (702) 263-7200

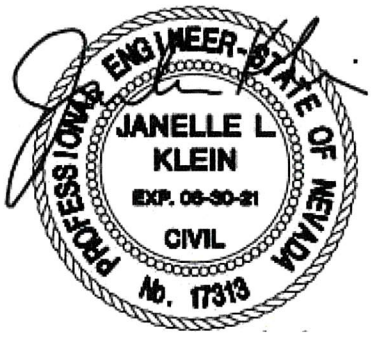
**Firm:** Atkins

**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 | | |

1. Total Owned Land Area: At Site: 7.03 Acres Being Developed/Disturbed: 7.03 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.): Civic District - School
5. Approximate upstream land area which drains to the subject site: +/- 1.9 Acres
6. Has the site drainage been evaluated in the past? ☒ **YES** ☐ **NO** If yes, please identify documentation: Technical Drainage Study for Mabel Hoggard, by Martin & Martin, February 2001 (CLV DS #925)
7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: Existing Washington Avenue storm drain at Tonopah Drive and Comstock Drive (via Virginia City Ave and Ophir Drive)
8. Briefly describe your proposed schedule for the subject project: ASAP




6/1/2020

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.

DS# 05249

Local Entity File No.

| Revision | Date |
|---|---|
| | |
| | |
| | |

REFERENCE:

STANDARD FORM 1

Updated 05/01/2008

ATKINS

**Atkins North America, Inc.**
2270 Corporate Circle, Suite 200
Henderson, Nevada 89074-7755

**Telephone: +1.702.263.7275**
Fax: +1.702.263.7200

**www.atkinsglobal.com/northamerica**

June 12, 2020

Mr. Yuk (Albert) Sung, P.E., CFM
City of Las Vegas Public Works Department
333 N. Rancho Drive, 7th floor
Las Vegas, NV 89106

**RE: SUPPLEMENT TO THE TECHNICAL DRAINAGE STUDY FOR MABEL HOGGARD ELEMENTARY SCHOOL**

**CITY OF LAS VEGAS #5249**

**ATKINS PROJECT NO: 100067217**

Dear Mr. Sung:

Transmitted herewith is a Supplement to the Technical Drainage Study for Mabel Hoggard Elementary School. Following is the response to the first review comments.

1. Provide a copy of the zoning/planning conditions associated with this site (**SDR-76079; VAR-78137; VAR-76077 & PMP-78198**) with the next submittal to verify compliance with conditions. *Flood Control* will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the *City Council*). Any associated conditions of approval that revise the side drainage parameters will require that the drainage study be revised and resubmitted.

   A copy of the zoning/planning conditions associated with this site are included with this submittal.

2. **Sheet C4.01 and Sheet C4.02**: A proposed grate type inlet (TG 61.80) at the east boundary on Sheet C4.01 is at a low point which does not appear to have an emergency overflow path in case the inlet is totally clogged. The ponding depth will be about 3' before the drainage overtops a high point (FL/HP 64.74) to the south. This ponding depth will inundate a substantial area of the parking lot at the north end of the school site which is unacceptable.

   It appears that the proposed inlet can be eliminated by running a concrete valley gutter in the landscape strip to the south and then east to Virginia City Avenue for discharge.

If the school district and the engineer maintain the current design, provide a notarized letter from the School District to indemnify the City of Las Vegas of any liability for future flooding potential in the stated above area. This letter must be on file prior to the final approval of the drainage study.

The design is being maintained in the landscape strip on the east boundary, a letter of acknowledgement from CCSD will be submitted.

3. Identify Project location on all exhibits including the MPU maps.

   The Project Location is identified on all exhibits included in this submittal.

4. **Sheet C6.01 & Sheet C6.02**: Label the depth of the two proposed drop inlets in *Tonopah Drive*. Provide Street Name on all pertinent plan & profile sheets.

   The plans have updated to show the drop inlet depths, and street names are provided on all pertinent plan & profile sheets.

5. Revise all drop inlets to Type "C-D" Modified Drop Inlet per Standard Drawing 412.1 or Neenah Pre-cast inlets. Note that the lengths of "C-D" modified inlets are in the multiple of 2.5'. Revised all pertinent construction notes and callouts accordingly.

   The plans have updated to call out the Type "C-D" modified drop inlets.

This letter certifies that that all items in the Technical Drainage Study for Mabel Hoggard Elementary School electronic submittal matches the paper version bound into the study.

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

Sincerely,

Atkins,

Janelle Klein, P.E.
Senior Engineer
Land Development

| CITY OF LAS VEGAS<br>INTER-OFFICE MEMORANDUM | | | DATE:<br>May 19, 2020 |
|---|---|---|---|
| TO:<br>**Land Development Services**<br>Department of Building & Safety | | | FROM:<br>Albert Sung, P.E.<br>Flood Control Project Engineer<br>Department of Public Works |
| **SUBJECT:** | Drainage Study for:<br>**Mabel Hoggard Elementary School** | | **COPIES TO:**<br>Atkins |
| **Cross Streets:** | NEC of Washington Blvd. & Tonopah Road | | Clark County School District |
| **File Number:** | F:\Depot\DSMemos\DS5249B.doc | | Bart Anderson, P.E., DevCo |
| **Parcel Number:** | 139-28-210-007 | | |
| **Zoning Action:** | SDR-76079; VAR-78137; VAR-76077 & PMP-78198 | | |
| **FEMA Flood Zone** | YES | NO X | |
| **Proposed Storm Drain** | YES X | NO | |

| HISTORY | DATE RECEIVED | DATE REVIEWED | COMMENTS | REVIEW FEES | FEES PAID Payment Trn # |
|---|---|---|---|---|---|
| 1st Submittal | 2/13/2020 | 3/9/2020 | Not Approved | $400.00 | 3744256: $400 |
| 2nd Submittal (Fee Paid on 5/6/2020) | 4/2/2020 & 5/6/2020 | 5/19/2020 | See Comments Below | $400.00 | 3840667: $400 |
| | | | **TOTAL FEES (LDDRS):** | **$800.00** | ---- |

**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. |

1. <u>**Second Request**</u>: *Provide a copy of the zoning/planning conditions associated with this site (**SDR-76079; VAR-78137; VAR-76077 & PMP-78198**) with the next submittal to verify compliance with conditions. Flood Control will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the City Council). Any associated conditions of approval that revise the site drainage parameters will require that the drainage study be revised and resubmitted.*

   The material provided in the last submittal was not a letter of approval from the *City Council* or *City Planning Commission*. Provide as such prior to the final approval of the subject drainage study.

2. **Sheet C4.01** and **Sheet C4.02**: A proposed grate type inlet (TG61.80) at the east boundary on **Sheet C4.01** is at a low point which does not appear to have an emergency overflow path in case the inlet is totally clogged. The ponding depth will be about 3' before the drainage overtops a high point (FL/HP 64.74) to the south. This ponding depth will inundate a substantial area of the parking lot at the north end of the school site which is unacceptable.

   It appears that the proposed inlet can be eliminated by running a concrete valley gutter in the landscape strip to the south and then east to *Virginia City Avenue* for discharge.

   If the ***School District*** and the engineer maintain the current design, provide a notarized letter from the ***School District*** to indemnify the ***City of Las Vegas*** of any liability for future flooding potential in the stated area above. This letter must be on file prior to the final approval of the drainage study.

3. **Second Request**: *Identify Project location on all exhibits including the MPU maps.*

4. **Second Request: *Sheet C6.01 & Sheet C6.02***: *Label the depth of the two proposed drop inlets in Tonopah Road. Provide Street Name on all pertinent plan & profile sheets.*

5. Revise all drop inlets to Type "C-D" Modified Drop Inlet per Standard Drawing 412.1 or Neenah Pre-cast inlets. Note that the lengths of "C-D" modified inlets are in the multiple of 2.5'. Revise all pertinent construction notes and callouts accordingly.

**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.

**END OF REMARKS**
HDR/AYS

T/R/S: T20S/R61E/28
AREA M-28

**LAS VEGAS CITY COUNCIL**

CAROLYN G. GOODMAN
*Mayor*

LOIS TARKANIAN
*Mayor Pro Tem*

STAVROS S. ANTHONY
BOB COFFIN
MICHELE FIORE
CEDRIC CREAR
WARD 2 *(Vacant)*

SCOTT D. ADAMS
*City Manager*

EPARTMENT OF PLANNING

**ROBERT SUMMERFIELD**
DIRECTOR

**DEVELOPMENT SERVICES CENTER**

333 N. RANCHO DRIVE
3RD FLOOR
LAS VEGAS, NV 89106

702.229.6301 | VOICE
702.474.7463 | FAX
711 | TTY

cityoflasvegas
lasvegasnevada.gov

June 20, 2019

Ms. Linda K. Perri
School Board of Trustees
1180 Military Tribute Place
Henderson, Nevada 89074

***RE: SDR-76079 [PRJ-75793] - SITE DEVELOPMENT PLAN REVIEW RELATED TO VAR-76077***
***CITY COUNCIL MEETING OF JUNE 19, 2019***

Dear Ms. Perri:

The City Council at a regular meeting held on June 19, 2019 voted to ***APPROVE*** a request for a Site Development Plan Review FOR A PROPOSED TWO-STORY, 88,540 SQUARE-FOOT PRIMARY PUBLIC SCHOOL DEVELOPMENT on 7.03 acres at 950 North Tonopah Drive (APN 139-28-210-007), C-V (Civic) Zone, Ward 5 (Crear) [PRJ-75793].

This approval is subject to the following conditions:

***Planning***

1. Approval of and conformance to the Conditions of Approval for Variance (VAR-76077) shall be required, if approved.

2. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.

3. All development shall be in conformance with the site plan, landscape plan, and building elevations, date stamped 03/18/19, except as amended by conditions herein.

4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit.

PRJ-77865
11/21/19

6. A technical landscape plan, signed and sealed by a Registered Architect, Landscape Architect, Residential Designer or Civil Engineer, must be submitted prior to or at the same time application is made for a building permit. A permanent underground sprinkler system is required, and shall be permanently maintained in a satisfactory manner; the landscape plan shall include irrigation specifications. Installed landscaping shall not impede visibility of any traffic control device.

7. A fully operational fire protection system, including fire apparatus roads, fire hydrants and water supply, shall be installed and shall be functioning prior to construction of any combustible structures.

8. All City Code requirements and design standards of all City Departments must be satisfied, except as modified herein.

***Public Works***

9. Appropriate Mapping action(s), if required, shall record prior to the approval of off-site construction drawings for this site.

10. Construct all incomplete half street improvements on Tonopah Drive and Virginia City Avenue meeting current City Standards adjacent to this site concurrent with development of this site. All existing paving damaged or removed by this development shall be restored at its original location and to its original width concurrent with development of this site.

11. The school shall send all wastewater to the 8-inch public sewer in Virginia City Avenue and abandon the private sewer connection to the private sewer manhole near the south property line.

12. Design and construct an off-site relief sewer in Martin Luther King Boulevard from Fair Avenue to Owens Avenue, at a depth and location acceptable to the Sanitary Sewer Planning Section of the Department of Public Works. Meet with Sanitary Sewer Planning to discuss reimbursement for constructing an oversized sewer in Martin Luther King Boulevard.

13. All private improvements and landscaping installed with this project shall be situated and maintained so as to not create sight visibility obstructions for vehicular traffic at all development access drives and abutting street intersections.

PRJ-77865
11/21/19

14. A Traffic Impact Analysis or other information acceptable to the City Traffic Engineer must be submitted to and approved by the Department of Public Works prior to issuance of any building or grading permits. Comply with the recommendation of the City Traffic Engineer.

15. A Drainage Plan and Technical Drainage Study must be submitted to and approved by the Department of Public Works prior to the issuance of any building or grading permits or submittal of any construction drawings, whichever may occur first. Provide and improve all drainageways recommended in the approved drainage plan/study. The developer of this site shall be responsible to construct such neighborhood or local drainage facility improvements as are recommended by the City of Las Vegas Neighborhood Drainage Studies and approved Drainage Plan/Study concurrent with development of this site.

The Notice of Final Action was filed with the Las Vegas City Clerk on June 20, 2019.

Sincerely,

Robert Summerfield, AICP
Director
Department of Planning

RTS:PL:clb

cc: Ms. Linda K. Perri
Clark County School District
1180 Military Tribute Place
Henderson, Nevada 89074

Ms. Diana Salazar
Clark County School District
Real Property Management
1180 Military Tribute Place
Henderson, Nevada 89074

PRJ-77865
11/21/19

# CLARK COUNTY SCHOOL DISTRICT
# CIVIL IMPROVEMENT PLANS FOR:
# MABEL HOGGARD
# ELEMENTARY SCHOOL REPLACEMENT

APN : 139-28-210-007
950 N. TONOPAH DRIVE
LAS VEGAS, NEVADA 89106

## CONFORMED SET

### SHEET INDEX


| Sheet Number | Sheet Title | Sheet Description |
|---|---|---|
| 1 | C0.01 | COVER SHEET |
| 2 | C0.02 | LEGEND AND ABBREVIATIONS |
| 3 | C0.03 | GENERAL NOTES |
| 4 | C1.00 | MASTER DEMOLITION PLAN |
| 5 | C1.01 | DEMOLITION PLAN 1 |
| 6 | C1.02 | DEMOLITION PLAN 2 |
| 7 | C2.00 | FIRE ACCESS PLAN |
| 8 | C3.00 | OVERALL HORIZONTAL CONTROL |
| 9 | C3.01 | HORIZONTAL CONTROL PLAN 1 |
| 10 | C3.02 | HORIZONTAL CONTROL PLAN 2 |
| 11 | C3.03 | HORIZONTAL CONTROL PLAN 3 |
| 12 | C4.00 | MASTER DRAINAGE PLAN |
| 13 | C4.01 | GRADING PLAN 1 |
| 14 | C4.02 | GRADING PLAN 2 |
| 15 | C4.03 | GRADING DETAILS 1 |
| 16 | C4.04 | GRADING DETAILS 2 |
| 17 | C4.05 | GRADING DETAILS 3 |
| 18 | C5.00 | MASTER UTILITY PLAN |
| 19 | C5.01 | STORM DRAIN PLAN |
| 20 | C5.02 | UTILITY PLAN 1 |
| 21 | C5.03 | UTILITY PLAN 2 |
| 22 | C5.04 | UTILITY CROSSING DETAILS |
| 23 | C6.01 | PLAN AND PROFILE 1 |
| 24 | C6.02 | PLAN AND PROFILE 2 |
| 25 | C6.03 | PLAN AND PROFILE 3 |
| 26 | C6.04 | PLAN AND PROFILE 4 |
| 27 | C6.05 | STORM DRAIN LATERAL PROFILES |
| 28 | C7.01 | SIGN AND STRIPING PLAN |
| 29 | C8.00 | TYPICAL SECTIONS 1 |
| 30 | C8.01 | TYPICAL SECTIONS 2 |
| 31 | C8.02 | DETAILS 1 |
| 32 | C8.03 | DETAILS 2 |


### UTILITY NOTE

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.

**CALL BEFORE YOU DIG: 1-800-227-2600**
(24 HRS. PRIOR TO COMMENCEMENT OF CONSTRUCTION)

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOTE BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF THE LAS VEGAS VALLEY WATER DISTRICT FACILITIES.

### NOTICE OF INTENT NOTE

NOTE: ALL LAND SURFACE AREA DISTURBANCES OVER 1 ACRE REQUIRE A STORMWATER DISCHARGE PERMIT ISSUED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP). A PHASED CONSTRUCTION UNIT IN A CONTIGUOUS SUBDIVISION IS CONSIDERED UNDER CONSTRUCTION UNTIL ALL STRIPPED SURFACE AREAS HAVE BEEN COVERED BY PAVING, BUILDING CONSTRUCTION OR PLANTING. A STORMWATER DISCHARGE PERMIT APPLICATION AND ASSOCIATED INFORMATION MAY BE DOWNLOADED FROM THE WEB SITE: HTTP://WWW.STATE.NV.US/BWPC/STORM01.HTM PROJECTS THAT DISTURB MORE THAN ONE ACRE OF LAND MUST SUBMIT TO NDEP A "NOTICE OF INTENT" FOR INCLUSION UNDER STORMWATER PERMIT NO. NVR100000 ALONG WITH APPROPRIATE FILLING FEE.

### NPDES PERMIT NOTE

THE CONTRACTOR 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.

### DISCLAIMER NOTE

EXISTING 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 IN THEIR PROPER LOCATION.

### FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X (SHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2170F, DATED 11/16/2011. A ZONE X (SHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE INSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

### BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

| | |
|---|---|
| ZONE: | LAS VEGAS ZONE |
| STANDARD PARALLEL AND GRID ORIGIN: | 36°15'00" N |
| CENTRAL MERIDIAN: | 114°58'00" W |
| FALSE NORTHING: | 656,166.6667 FEET (US) |
| FALSE EASTING: | 328,083.3333 FEET (US) |
| STANDARD PARALLEL SCALE: | 1.0001 |
| LINEAR UNIT: | US SURVEY FOOT (US FT) |

### OWNER /DEVELOPER

**OWNER**

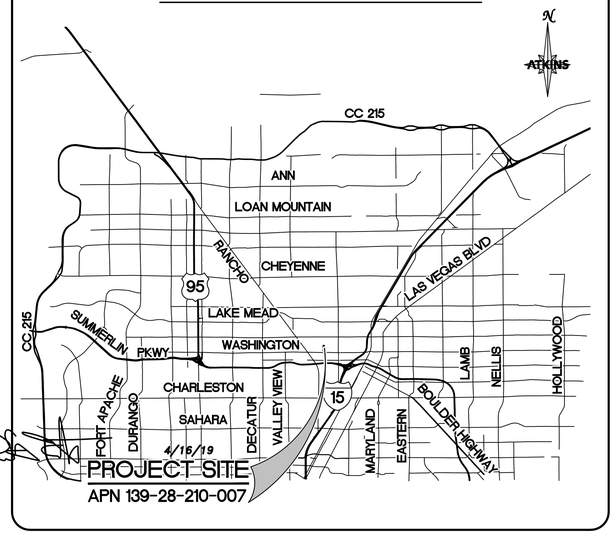
CONTACT: ALAN IMPERIAL
CLARK COUNTY SCHOOL DISTRICT
1180 MILITARY TRIBUTE PLACE
HENDERSON, NV 89070
(702) 799-8710 EXT. 5309

### ENGINEER / CONSULTANT

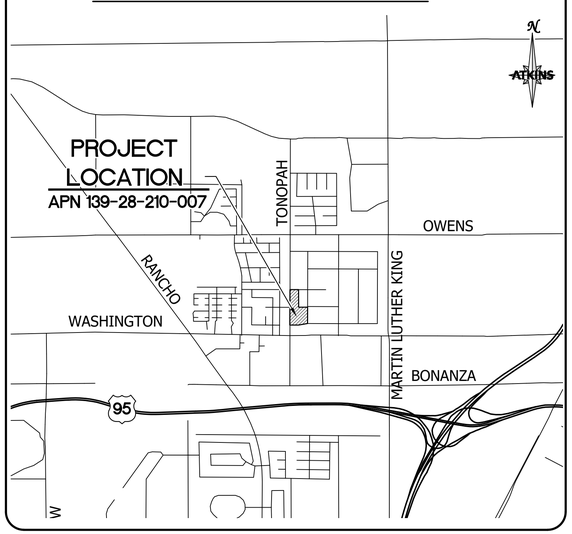
**CIVIL**

CONTACT: TONY ORTIZ, P.E.
ATKINS
2270 CORPORATE CIRCLE SUITE 200
HENDERSON, NEVADA 89074
(702) 551-0336

### LOCATION MAP




### VICINITY MAP




### APPROVALS

ALLEN PAVELKA, P.E. #9029 — DATE
CITY ENGINEER

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND OR/ 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 — DATE

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 ENGINEERING SERVICES
PROJECT NO. 137309 FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW: TOTAL 2500 GPM/ONSITE 2500
SHEETS: _____

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.

SOUTHWEST GAS CORPORATION — DATE

COX COMMUNICATIONS OF LAS VEGAS, INC — DATE

STATE FIRE MARSHALL APPROVAL

SIGNATURE — DATE

SFM PROJECT NO: 20CL376
☐ NO CORRECTIVE ACTION REQUIRED
☐ CORRECTIVE ACTION REQUIRED – SEE ATTACHED

### BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

### LEGAL DESCRIPTION

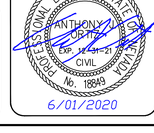
LOTS SEVEN (7), EIGHT (8), FIFTEEN (15), SIXTEEN (16), SEVENTEEN (17), EIGHTEEN (18), AND NINETEEN (19), IN BLOCK SEVEN (7), OF BONANZA VILLAGE TRACT, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 2 OF PLATS, PAGE 69, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.










| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

REVISIONS

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY TRIBUTE LN, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

COVER SHEET

DESIGNED BY: OMO/JLC
DRAWN BY: OMO/JLC
CHECKED BY: T. ORTIZ
HORIZ.: NONE
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 1/32
C0.01

XXX-XXXXX XXX-XXX

X:\Projects\Land Development\SH Architecture\100067217 - Mabel Hoggard ES- Replacement_Sheet\67217-01-TITL-C1.dwg LAYOUT: C0.01 Jun 01, 2020 - 12:25PM

## ABBREVIATIONS

| | |
|---|---|
| @ | AT |
| # | NUMBER |
| AB | ABANDONED |
| AC | ASPHALTIC CONCRETE |
| ACP | ASBESTOS CEMENT PIPE |
| AGG | AGGREGATE |
| AIP | ABANDON IN PLACE |
| ALT | ALTERNATE |
| AP | ANGLE POINT |
| APPROX | APPROXIMATE |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL |
| AV/AR | AIR VACUUM AIR RELIEF VALVE |
| BC | BACK OF CURB |
| BCR | BACK OF CURB RETURN |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLVD | BOULEVARD |
| BM | BENCHMARK |
| BO | BLOW OFF |
| BP | BOTTOM OF PIPE |
| BSW | BACK OF SIDEWALK |
| BVC | BEGIN VERTICAL CURVE |
| BVCE | BEGINNING OF VERTICAL CURVE ELEVATION |
| BVCS | BEGINNING OF VERTICAL CURVE STATION |
| BW | BOTTOM WIDTH |
| C&G | CURB AND GUTTER |
| C–C | CENTER TO CENTER |
| CATV | CABLE TELEVISION |
| CCAUSD | CLARK COUNTY AREA UNIFORM STANDARD DRAWING |
| CCRFCD | CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT |
| CCSD | CLARK COUNTY SCHOOL DISTRICT |
| CCWRD | CLARK COUNTY WATER RECLAMATION DISTRICT |
| CF | CUBIC FOOT |
| CIP | CAST IRON PIPE OR CAST IN PLACE |
| CL | CENTERLINE |
| CLR | CLEAR |
| CLV | CITY OF LAS VEGAS |
| CM | CONSTRUCTION MANAGER |
| CMP | CORRUGATED METAL PIPE |
| CMU | CONCRETE MASONRY UNIT |
| CNDT | CONDUIT |
| CNLV | CITY OF NORTH LAS VEGAS |
| CO | CLEANOUT |
| COH | CITY OF HENDERSON |
| COL | COLUMN |
| CON'T | CONTINUATION |
| CONC | CONCRETE |
| CONST | CONSTRUCT OR CONSTRUCTION |
| COR | CORNER |
| CPP | CORRUGATED PLASTIC PIPE |
| CSP | CORRUGATED STEEL PIPE |
| CU | CUBIC |
| CULV | CULVERT |
| CY | CUBIC YARD |
| D | DEPTH |
| DCSWCS | DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS |
| DET, DTL | DETAIL |
| DEPT | DEPARTMENT |
| DG | DESIGN GRADE |
| DI | DROP INLET |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIP | DUCTILE IRON PIPE |
| DOC | DOCUMENT |
| DOM | DOMESTIC |
| DW | DRIVEWAY |
| DWG | DRAWING |
| E | EAST |
| EA | EACH |
| EB | EASTBOUND |
| EC | END OF CURVE |
| ECR | END CURB RETURN |
| EF | EACH FACE |
| EG | EXISTING GROUND |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION |
| EMBK | EMBANKMENT |
| EOP | EDGE OF PAVEMENT |
| EP | EDGE OF PAVEMENT ALIGNMENT END |
| EQ | EQUAL |
| ESMT | EASEMENT |
| EVC | END VERTICAL CURVE |
| EVCS | END VERTICAL CURVE STATION |
| EW | EACH WAY |
| EX, EXST | EXISTING |
| EXP, JT | EXPANSION JOINT |
| FA | FIRE ALARM |
| FC | FACE OF CURB |
| FF | FINISHED FLOOR ELEVATION |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FO | FIBER OPTIC |
| FT | FOOT OR FEET |
| G | GAS LINE |
| GALV | GALVANIZED |
| GB | GRADE BREAK |
| GL | GRATE LENGTH |
| GM | GAS METER |
| GUT | GUTTER |
| GV | GATE VALVE |
| H | HEIGHT |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| HDWL | HEADWALL |
| HE | HORIZONTAL ELLIPTICAL |
| HGL | HYDRAULIC GRADE LINE |
| HOA | HOMEOWNER'S ASSOCIATION |
| HOR | HORIZONTAL |
| HP | HIGH POINT |
| ID | INSIDE DIAMETER |
| IN | INCH(ES) |
| INT | INTERSECTION |
| INV | INVERT |
| IQAC | INTERAGENCY QUALITY ASSURANCE COMMITTEE |
| IRR | IRRIGATION |
| ISL | ISLAND |
| JB | JUNCTION BOX |
| JCT | JUNCTION |
| JT | JOINT |
| K | VERTICAL CURVE K VALUE |
| L | LENGTH |
| LB | POUND(S) |
| LF | LINEAR FEET |
| LIN | LINEAR |
| LIN # | CCWRD MANHOLE NUMBER |
| LOC | LENGTH OF CURVE |
| LOL | LAYOUT LINE |
| LP | LOW POINT |
| LS | LANDSCAPE |
| LT | LEFT |
| LVC | LENGTH OF VERTICAL CURVE |
| LVVWD | LAS VEGAS VALLEY WATER DISTRICT |
| MAS | MASONRY |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| MON | MONOLITHIC, MONUMENT |
| MOW | MOW CURB |
| MTL | MATERIAL |
| ME | MATCH EXISTING |
| MUE | MUNICIPAL UTILITY EASEMENT |
| N | NORTH |
| NAP | NOT A PART |
| NDOT | NEVADA DEPARTMENT OF TRANSPORTATION |
| NF | NEAR FACE |
| NG | NUMBER OF GRATES, NATURAL GRADE |
| NIC | NOT IN CONTRACT |
| No. | NUMBER |
| NTS | NOT TO SCALE |
| NVE | NV ENERGY |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OG | OPEN GRADE |
| OH | OVERHEAD |
| OHP | OVERHEAD POWER |
| OS | OFFSET |
| P | POWER |
| PB | PULL BOX |
| PBS | PLANTMIX BITUMINOUS SURFACE |
| PC | POINT OF CURVATURE |
| PCC | PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE |
| PE | POLYETHYLENE |
| PG | PROPOSED GRADE |
| PGL | PROFILE GRADE LINE |
| PH | POT HOLE |
| PI | POINT OF INTERSECTION |
| PIP | PROTECT IN PLACE |
| PL | PROPERTY LINE |
| PLCS | PLACES |
| PMF | PAVEMENT MARKING FILM |
| POC | POINT OF CONNECTION |
| PP | POWER POLE |
| PRC | POINT OF REVERSE CURVATURE |
| PROP | PROPOSED |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT, POINT OF TANGENCY |
| PUE | PUBLIC UTILITY EASEMENT |
| PVC | POLYVINYL CHLORIDE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVMT | PAVEMENT |
| QTY | QUANTITY |
| (R) | RADIAL |
| R/W,ROW | RIGHT OF WAY |
| R | RADIUS |
| RC | REINFORCED CONCRETE |
| RCB | REINFORCED CONCRETE BOX |
| RCC | ROLLER COMPACTED CONCRETE |
| RCP | REINFORCED CONCRETE PIPE |
| RD | ROAD |
| REINF | REINFORCED OR REINFORCEMENT |
| RELOC | RELOCATE |
| REV | REVISION |
| RG | ROUGH GRADE |
| RP | RADIUS POINT |
| RPM | RAISED PAVEMENT MARKER |
| RR | RAILROAD |
| RT | RIGHT |
| SCHED | SCHEDULE |
| SD | STORM DRAIN |
| SDMH | STORM DRAIN MANHOLE |
| SF | SQUARE FOOT/SQUARE FEET |
| SHLD | SHOULDER |
| SHT | SHEET |
| SHP | STEEL HIGH PRESSURE PIPE |
| SMFO | SINGLE MODE FIBER OPTIC |
| SNWA | SOUTHERN NEVADA WATER AUTHORITY |
| SQ | SQUARE |
| SS | SANITARY SEWER OR SIDE SLOPE |
| SSD | SUMMERLIN STANDARD DRAWING |
| SST | STAINLESS STEEL |
| ST | STREET |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| STLT | STREETLIGHT |
| SDHW | STORM DRAIN HEADWALL |
| STRUCT | STRUCTURAL OR STRUCTURE |
| SUM # | CCWRD MANHOLE NUMBER |
| SURV | SURVEY |
| SVZ | SIGHT VISIBILITY ZONE |
| SW | SIDEWALK |
| SY | SQUARE YARD |
| T | TELEPHONE LINE |
| TAN | TANGENT |
| TB | TOP OF BOX |
| TBA | TO BE ADJUSTED |
| TBC | TOP OF BACK OF CURB |
| TBR | TO BE REMOVED |
| TC | TOP OF CURB |
| TCD | TRAFFIC CONTROL DEVICE |
| TDS | TECHNICAL DRAINAGE STUDY |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| TF | TOP OF FOOTING |
| THK | THICK |
| THR | THRUST |
| THW | TOP OF HEADWALL |
| TOF | TOP OF FACE |
| TW/TOW | TOP OF WALL |
| TP | TOP OF PIPE |
| TRANS | TRANSITION |
| TS | TRAFFIC SIGNAL |
| TSI | TRAFFIC SIGNAL INTERCONNECT |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| UDACS | UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS |
| UG | UNDERGROUND |
| UGP | UNDERGROUND POWER |
| UIE | UPPER INVERT ELEVATION |
| UNO | UNLESS NOTED OTHERWISE |
| UPRR | UNION PACIFIC RAILROAD |
| USD | UNIFORM STANDARD DRAWING |
| UTACS | ULTRA THIN ASPHALT CONCRETE SURFACE |
| USTCDE | UTILITY, STREETLIGHT, TRAFFIC CONTROL DEVICE EASEMENT |
| V | VOLT |
| VAR | VARIABLE |
| VC | VERTICAL CURVE |
| VCP | VITRIFIED CLAY PIPE |
| VERT | VERTICAL |
| VG | VALLEY GUTTER |
| W | WEST, WATER |
| W/ | WITH |
| WB | WEST BOUND |
| WL | WATER LINE |
| WM | WATER METER |
| W/O | WITHOUT |
| WPJ | WEAKENED PLANE JOINT |
| WV | WATER VALVE |
| WW | WING WALL |
| YD | YARD(S) |

| | EXISTING | PROPOSED |
|---|---|---|
| DAYLIGHT LINE | | |
| FLOWLINE | | |
| CENTERLINE | | |
| PARCEL LINE | | |
| RIGHT OF WAY | | |
| PAVEMENT STRIPING | | |
| OVERHEAD POWER | —OHP— —OHP— | |
| UNDERGROUND POWER | —UGP— —UGP— | |
| SANITARY SEWER | SS | SS |
| WATER | W | W |
| STORM DRAIN | SD | SD |
| GAS | G | |
| CABLE T.V. | CATV | |
| TELEPHONE | T | |
| STREETLIGHT CONDUIT | STLT | STLT |
| STOP BAR | | |
| CONCRETE ENCASEMENT | | |
| FENCE | | |
| BLOCK WALL | | |
| CMU RETAINING WALL | | |
| SAWCUT PAVEMENT | | |
| CONTOUR | (3000) | 3005 |
| SPOT ELEVATION | x 3011.6 | x 3011.6 |
| CURB AND GUTTER | | |
| EDGE OF PAVEMENT | | |
| EASEMENT | | |
| MATCHLINE | | |
| SIGN | | |
| DOUBLE POST SIGN | | |
| STORM DRAIN MANHOLE | SD | |
| STORM DRAIN STRUCTURE | | |
| DROP INLET | | |
| BEEHIVE INLET | | |
| SEWER MANHOLE | S | S |
| FIRE HYDRANT | | |
| CAP AND BLOWOFF | | |
| GATE VALVE | | |
| REDUCER | | |
| STREETLIGHT | OR | |
| PULLBOX | | |
| SIGNAL POLE | | |
| ELEVATION | (00.0) FG | 00.0 FG |
| SIDEWALK | | |
| BUILDING CANOPY | | |
| BUILDING | | |
| BUILDING FOOTING/ RETAINING WALL | | |
| STACKWALL RETAINING | | |

## NOTE TO CONTRACTOR

*THE CONTRACTOR SHALL CONTACT FAST, 811 (CALL BEFORE YOU DIG), AND CALL BEFORE YOU OVERHEAD 24 HRS. PRIOR TO COMMENCEMENT OF CONSTRUCTION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICE MANAGER DATE
PROJECT NO. 137309 DATE:
LVVWD APPROVED FIRE FLOW 2500 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 AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 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.

PROFESSIONAL ENGINEER – STATE OF NEVADA – ANTHONY J. ALLEN – No. 18943 – EXP. 12-31-21 – CIVIL
6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

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2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROAD LAS VEGAS, NV 89014 PHONE: 702-799-8010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

LEGEND AND ABBREVIATIONS

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: C. BATES
HORIZ.: NONE
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 2/32
C0.02

XXX-XXXXX XXX-XXX

X:\Projects\Land Development\SH Architecture\100067217 – Mabel Hoggard ES– Replacement_Sheet\67217–02–LGND–C2.dwg LAYOUT: C0.02 Jun 01, 2020 – 12:33PM

## CITY OF LAS VEGAS GENERAL NOTES

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".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATIONS DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½') ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. 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 THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE ) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, 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. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
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.

*REVISED 06/04/2018*

## LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

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 SITE DISCHARGE 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 TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS 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 ACTIVITIES. REFER 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.

## SOUTHWEST NEVADA - SOUTHWEST GAS CORPORATION

*GENERAL NOTES*

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

ALL CIVIL IMPROVEMENT PLANS MUST INCLUDE SOUTHWEST GAS CORPORATION HIGH PRESSURE NOTES ON THE NOTES SHEET AND ALL SHEETS DEPICTING HIGH PRESSURE NATURAL GAS MAINS AS INDICATED BELOW:

**CAUTION: HIGH PRESSURE GAS!!**

**CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION**

SOUTHWEST GAS CORPORATION DATE

## GRADING NOTES

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: TERRACON, 750 PILOT ROAD SUITE #F, LAS VEGAS, NV 89119, PHONE: 702-597-9393, PROJECT NO. : 64195017, DATED: APRIL 22, 2019.
4. EARTHWORK QUANTITIES (RAW):

   -CUT = 180 CUBIC YARDS
   -FILL = 13,525 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.

## CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

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 ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.6.15
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 SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, § 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 BEFORE COVERING THE LINES. CENTER 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.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. 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 TO VERIFY AVAILABILITY OF 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 NEEDED FOR PROTECTION OF THE STRUCTURES, 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 30,000 PER DAY, 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 PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. 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 § C102.4
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7
17. THE MAXIMUM DISTANCE FROM A 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, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE 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 ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE 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 IFC § 503.2.4
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
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 MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE 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 STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. IFC § 503.1.1
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEADENDS 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 ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED 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. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER 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 BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION

## CITY OF LAS VEGAS GRADING NOTES

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.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

| | | HORIZONTAL | VERTICAL | COMPACTION |
|---|---|---|---|---|
| A. | PAVEMENT AREA SUBGRADE | 0.1'+ | +0.0' TO -0.1' | SEE SOILS REPORT |
| B. | ENGINEERED FILL | 0.5'+ | +0.1' TO -0.1' | SEE SOILS REPORT |

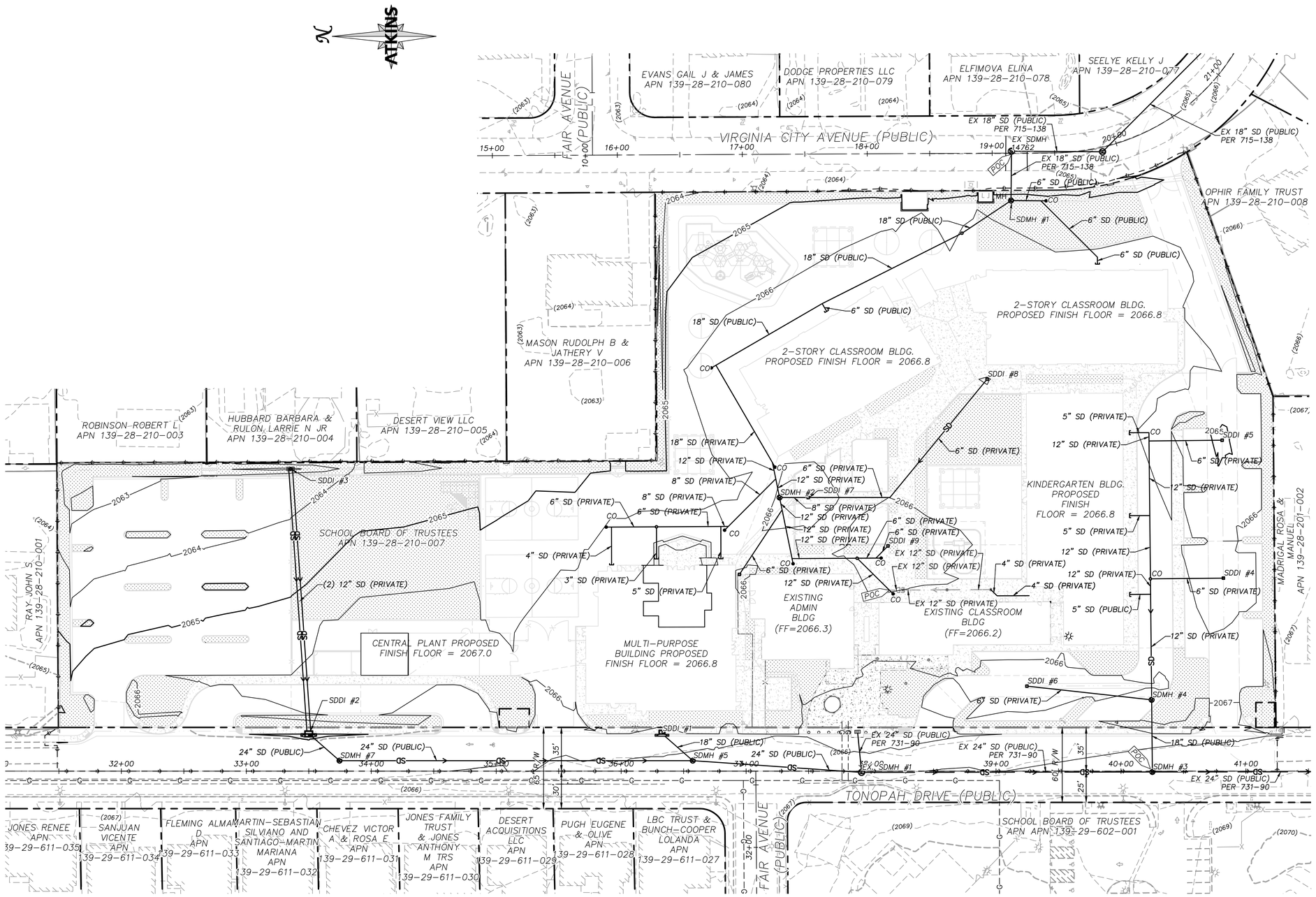
   COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

*REVISED 04/15/10*

## GENERAL NOTES

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 DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 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 UTILITIES OR STRUCTURES NOT SHOWN, OR NOT 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 CLARK COUNTY AREA, NEVADA" AND AS PROVIDED IN THE SPECIFICATIONS.
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 ANY OTHER EXISTING IMPROVEMENTS OUTSIDE OF STREET RIGHT-OF-WAY, EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR THE PROJECT ENGINEER. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, STEPS, SIDEWALKS, DRIVEWAYS, LAWN LIGHTS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE REQUIRED BY THE PROJECT ENGINEER.
7. 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 SOD 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 THE 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 ALL PAVED STREETS.
15. CURB AND GUTTER OF A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT 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




## SUMMARY OF QUANTITIES

| DESCRIPTION | QUANTITY | UNIT |
|---|---|---|
| DRAINAGE | | |
| 6" SDR-35 STORM DRAIN PIPE | | LF |
| 12" SDR-35 STORM DRAIN PIPE | | LF |
| STORM DRAIN AREA DRAIN | | LF |
| STORM DRAIN CLEAN OUT | | LF |
| 4" PERFORATED PIPE | | EA |
| | | EA |
| | | LF |

**MASTER PLAN NOTE**

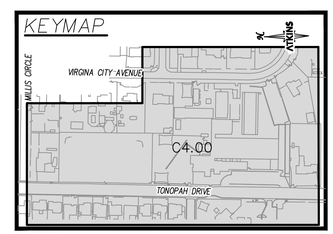
THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. IT IS AN OVERALL REPRESENTATION OF THE UTILITY FOR REVIEW AND COORDINATION WITH OTHER PROJECT DETAILS WITHIN THIS PLAN SET.

## DRAINAGE NOTES

1. SEE SHEETS C4.01 AND C4.02 FOR CONSTRUCTION NOTES AND INFORMATION RELATED TO STORM DRAIN.
2. ALL STORM DRAIN MATERIAL TO BE PVC SDR-35, UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO PROVIDE 6" MINIMUM OF CLEARANCE BETWEEN OUTSIDE OF PIPE TO INSIDE WALL OF STORM DRAIN STRUCTURES.
4. ALL ONSITE STORM DRAINAGE AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY CLARK COUNTY SCHOOL DISTRICT.

**NOTE TO CONTRACTOR**

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




GRAPHIC SCALE
40 0 20 40 80
HORIZONTAL: 1"=40'

## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

## BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig AVOID DIGGING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 OR 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DIG OVERHEAD 1-702-227-2929

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ No. 18849 Exp. 12-31-21 CIVIL
6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1108 MILITARY ROBERT DR. HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

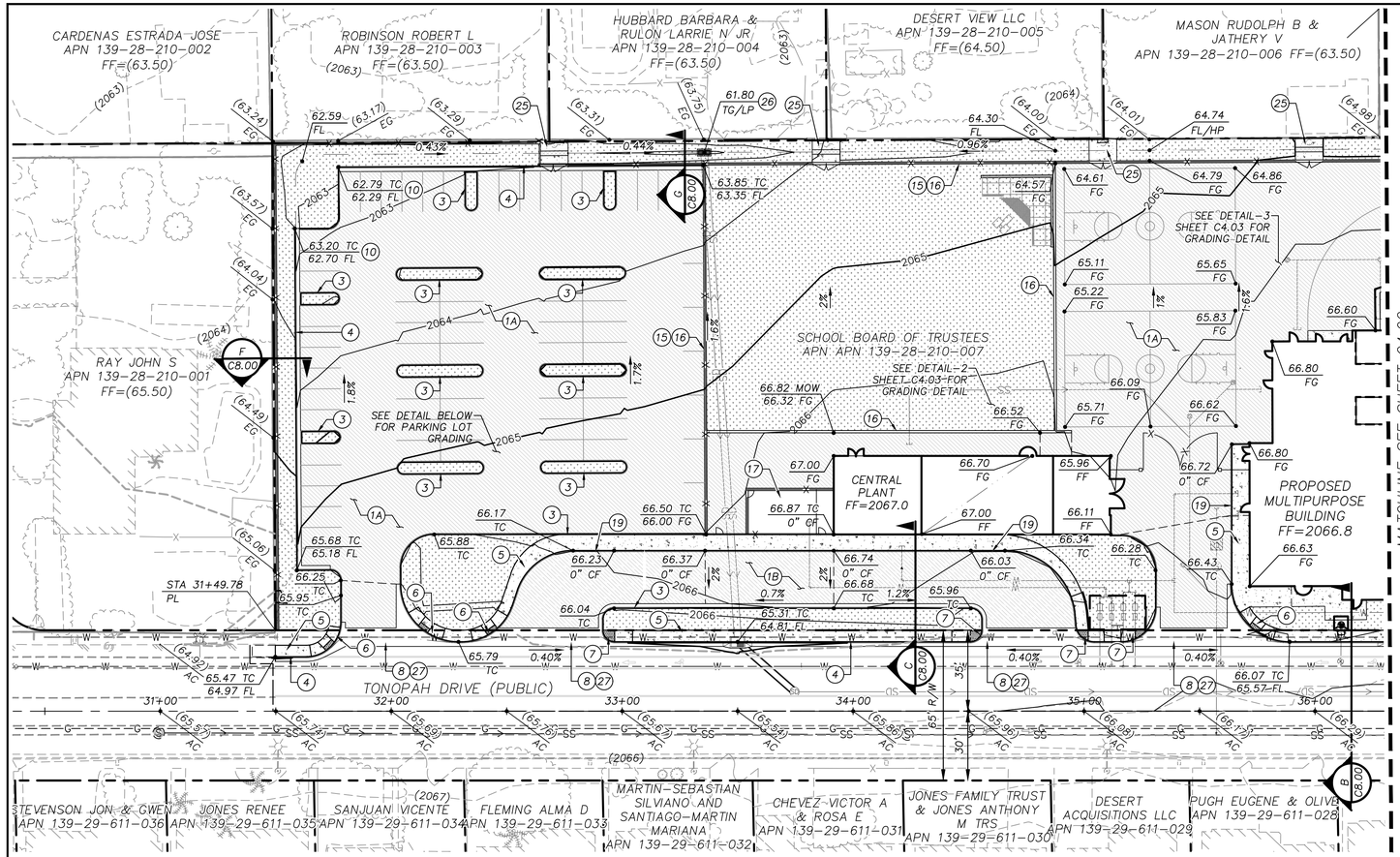
MASTER DRAINAGE PLAN

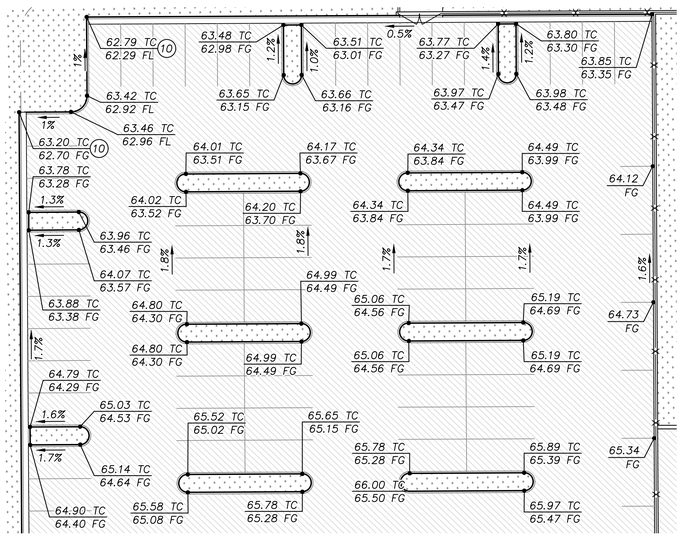
DESIGNED BY: J. CABRERA
DRAWN BY: O. QUASSANI
CHECKED BY: A. ORTIZ
HORIZ.: 1"=40'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.:12/32
C4.00

XXX-XXXXX XXX-XXX

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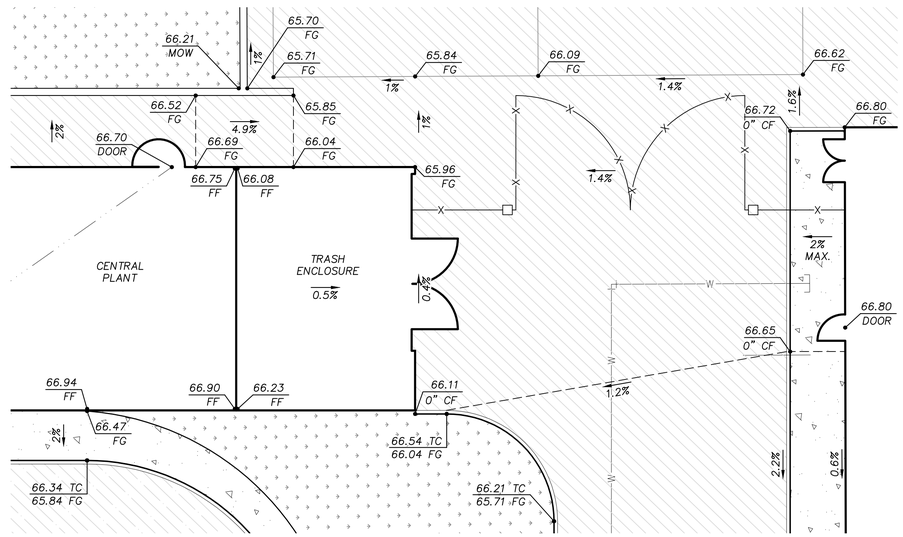



NORTH PARKING LOT GRADING DETAIL

SCALE: 1"=20'

1 C4.01




MAINTENANCE ACCESS GRADING DETAIL

SCALE: 1"=10'

2 C4.01

GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

## BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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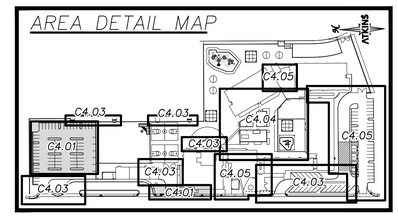
PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ No. 18849 CIVIL 6/11/2020

## NOTES:

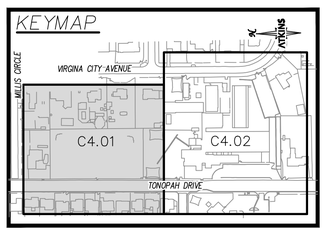
1. SEE SHEETS C5.02 AND C5.03 FOR SEWER, DOMESTIC WATER AND FIRE WATER.
2. SEE SHEET C5.04 FOR UTILITY CROSSING INFORMATION.
3. SEE SHEET C8.00 FOR CROSS SECTIONS AND SHEETS C8.02 AND C8.03 FOR SECTION DETAILS.
4. SEE SHEETS C4.03 TO C4.05 FOR GRADING DETAILS.
5. ALL ONSITE STORM DRAINAGE AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY CLARK COUNTY SCHOOL DISTRICT.

| | CONSTRUCTION NOTES |
|---|---|
| 1A | CONSTRUCT 3.0" OF AC PAVEMENT OVER 6.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 1B | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 2 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 3 | CONSTRUCT "A" TYPE CURB PER DETAIL 3 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT SIDEWALK RAMP CCAUSD NO. 235 CASE I. |
| 7 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 8 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 9 | CONSTRUCT 4' VALLEY GUTTER PER DETAIL 10 ON SHEET C8.02. |
| 10 | CONSTRUCT 2' CURB OPENING DETAIL 6 ON SHEET C8.02. |
| 11 | INSTALL 6" CONCRETE RISERS WITH HANDRAIL PER ARCH. PLANS. |
| 12 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 13 | CONSTRUCT RIPRAP SWALE. D50=8", THICKNESS=16". PER DETAIL 7 ON SHEET C8.02 |
| 14 | CONSTRUCT RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DETAILS. |
| 15 | INSTALL FENCE/GATE PER ARCH. SEE DETAIL 5 ON SHEET C8.02 FOR FOOTING |
| 16 | INSTALL 12" MOW CURB PER DETAIL 8 ON SHEET C8.02. |
| 17 | PROPOSED IRRIGATION ENCLOSURE PER LANDSCAPE DRAWINGS. |
| 18 | PROPOSED PLAYGROUND STRUCTURE SEE ARCHITECTURAL PLANS. |
| 19 | CONSTRUCT 0" TO 6" CURB FACE TRANSITION. |
| 20 | INSTALL RAISED PAVEMENT MARKERS PER CCAUSD 235. |
| 21 | PROPOSED PLANTER PER LANDSCAPE DRAWINGS. |
| 22 | CONSTRUCT RAMP WITH HANDRAIL PER ARCH. DRAWINGS. |
| 23 | MATCH EXISTING ELEVATION |
| 24 | INSTALL BUMP STOP PER CCAUSD 238 |
| 25 | CONSTRUCT NVE MAINTENANCE ACCESS PER DETAIL-9 ON SHEET C8.02 |
| 26 | INSTALL DROP INLET. SEE SHEET C5.01 FOR INFORMATION |
| 27 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |

AREA DETAIL MAP




KEYMAP




REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
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Nevada 89074 Telephone:
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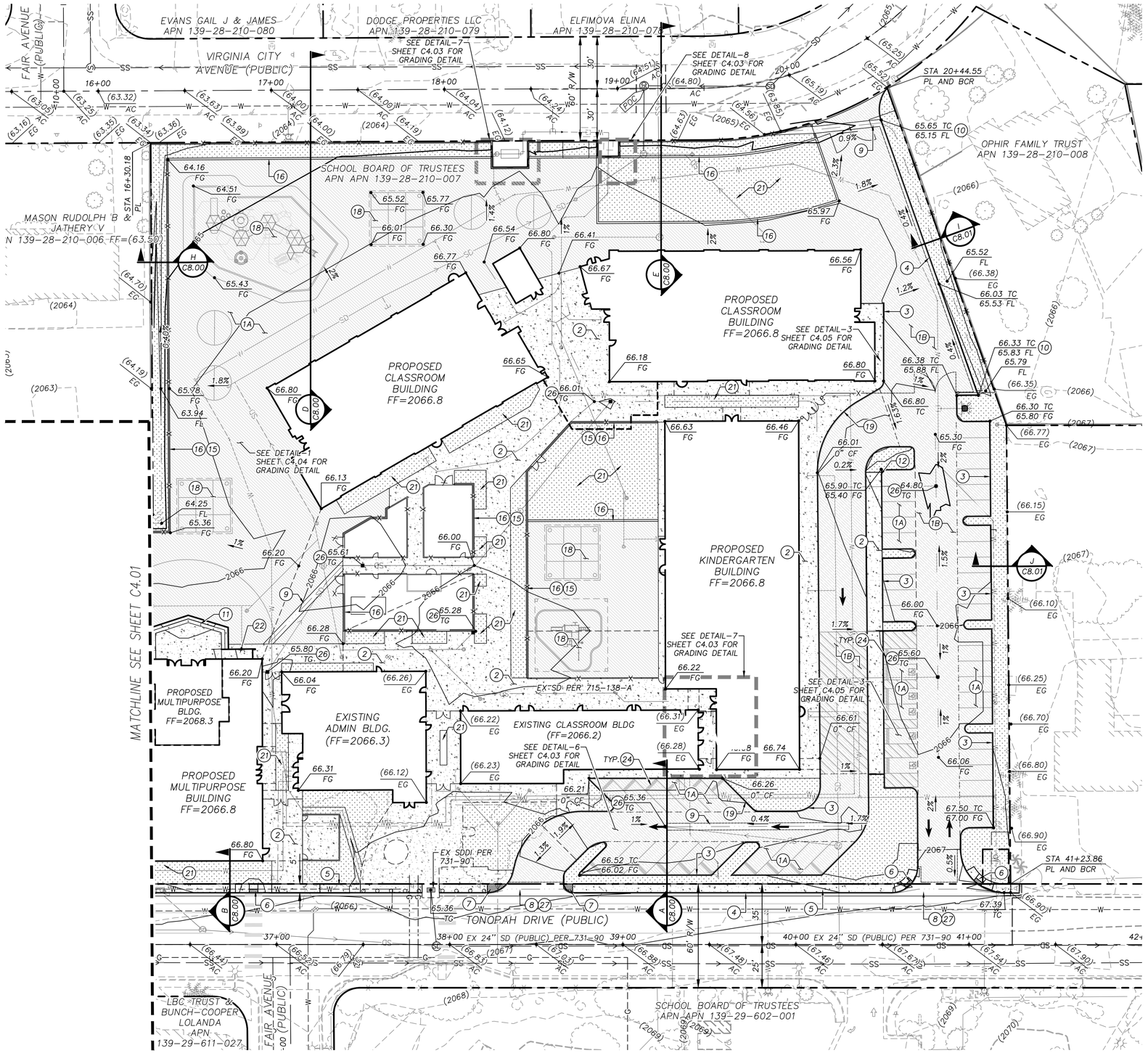
GRADING PLAN 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: T. ORTIZ
HORIZ.: 1"=30'
VERT.: NONE

JOB NO. 100067217
DATE: 6/10/2020
DRAWING NO.13/32
C4.01

XXX-XXXXX XXX-XXX

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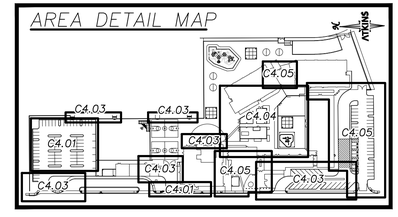



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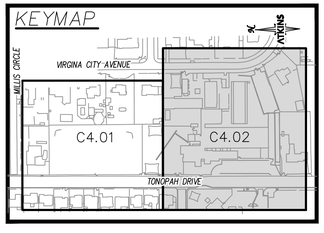
## NOTES:

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AREA DETAIL MAP




KEYMAP




GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ No. 18849 CIVIL Exp. 12-31-21

6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
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1190 MILITARY ROUTE LN, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
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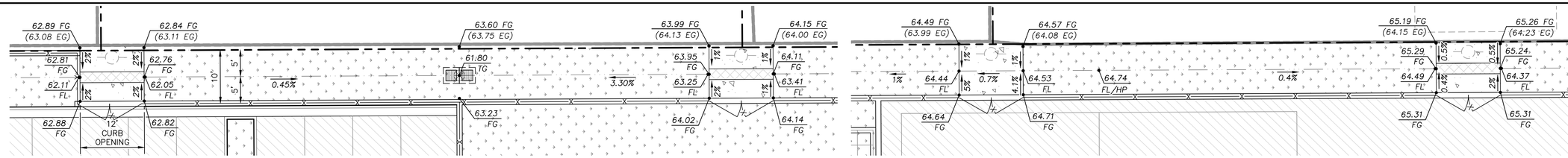
GRADING PLAN 2

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: A. BATES
HORZ.: 1" =30'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.14/32
C4.02

XXX-XXXXX XXX-XXX

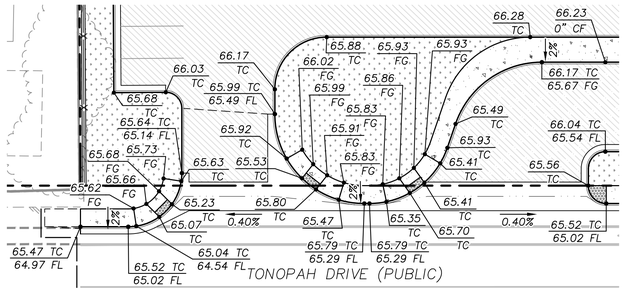
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NVE ACCESS/SWALE GRADING DETAIL

SCALE: 1"=10'

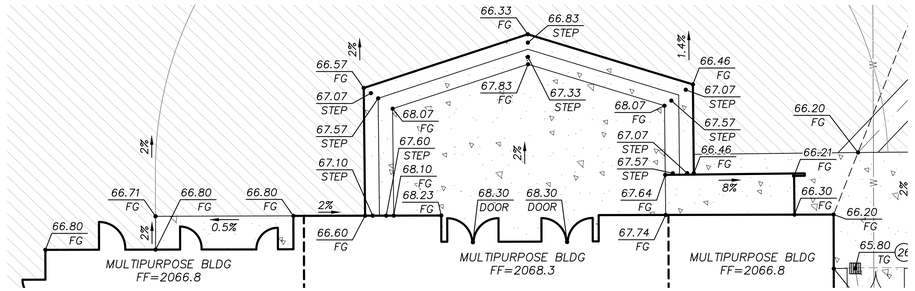
1 C4.03




NORTH PARKING LOT ENTRANCE GRADING DETAIL

SCALE: 1"=20'

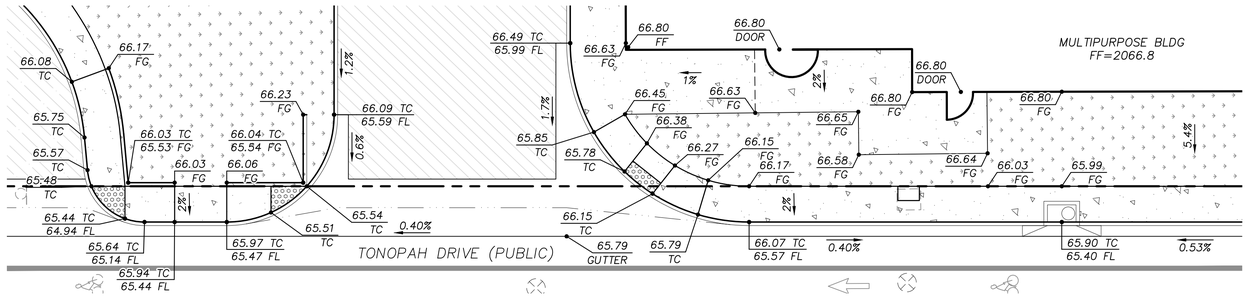
2 C4.03




MUTIPURPOSE BUILDING STAIRS GRADING DETAIL

SCALE: 1"=10'

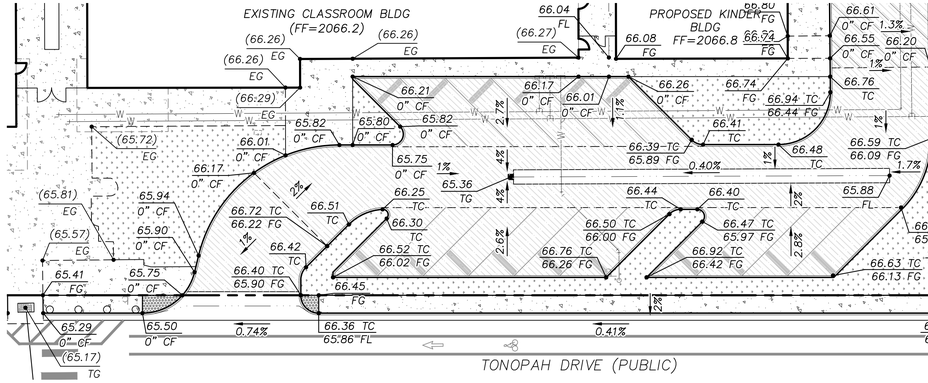
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MAINTENANCE ENTRANCE GRADING DETAIL

SCALE: 1"=10'

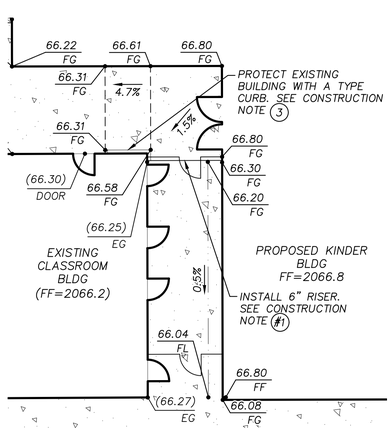
5 C4.03




CLASSROOM BUILDING PARKING LOT GRADING DETAIL

SCALE: 1"=20'

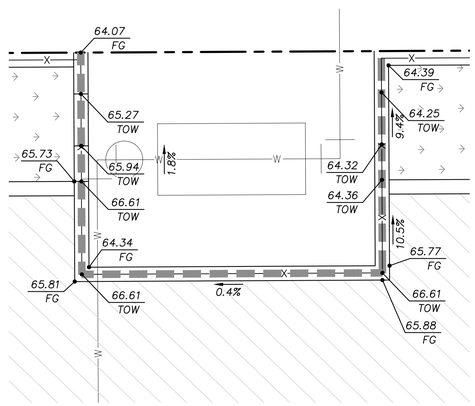
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UTILITY CORRIDOR GRADING DETAIL

SCALE: 1"=10'

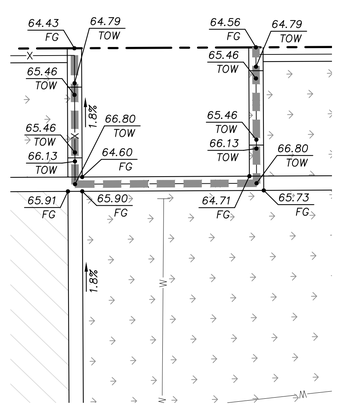
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RPDA GRADING DETAIL

SCALE: 1"=5'

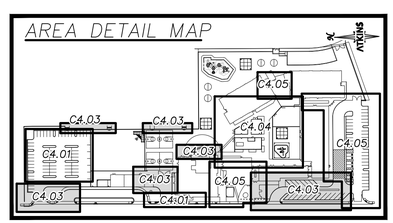
8 C4.03




EXISTING RPPA GRADING DETAIL

SCALE: 1"=5'

9 C4.03




## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ EXP. 12-31-21 CIVIL No. 18849 6/01/2020

REVISIONS

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MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

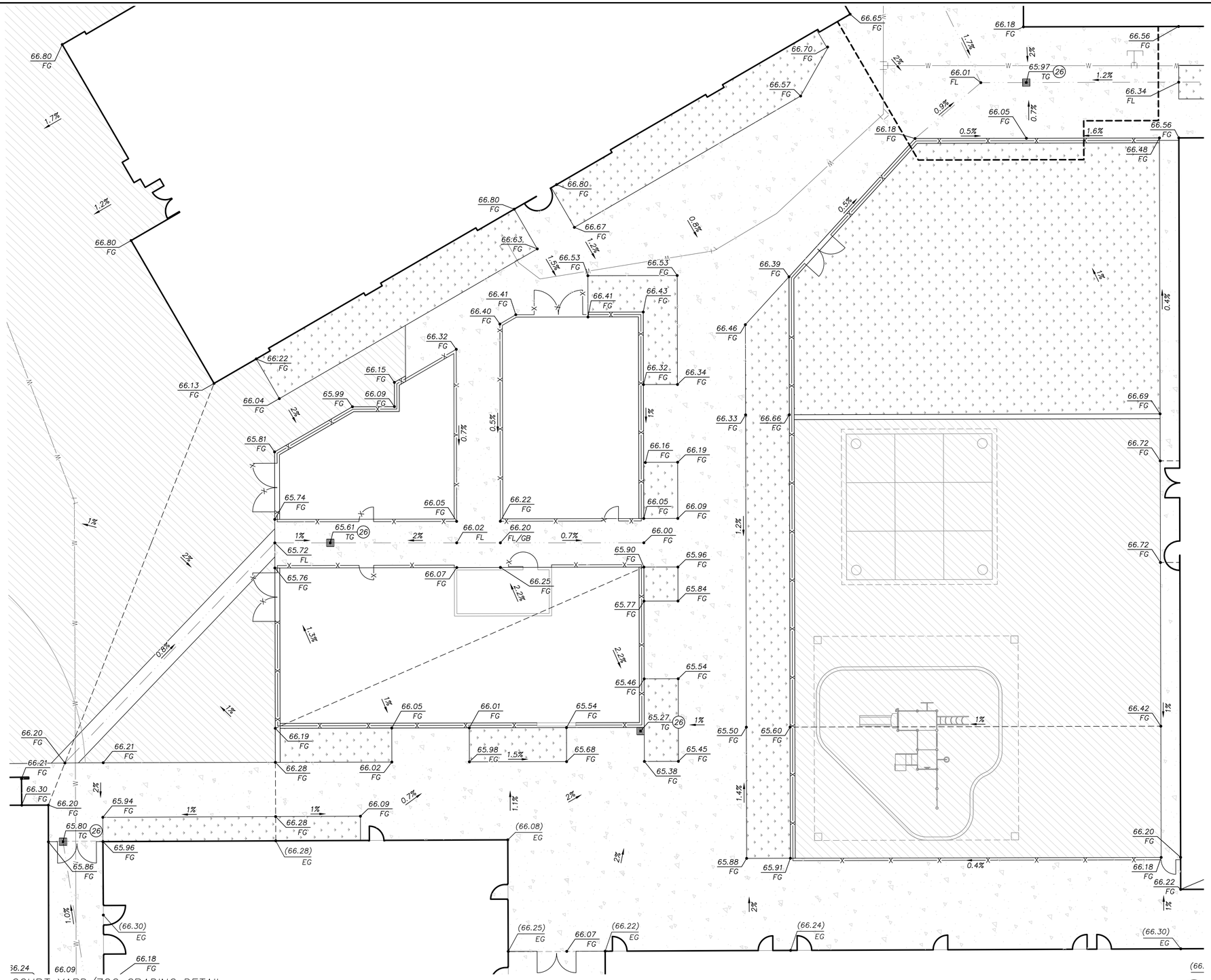
GRADING DETAILS 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: P. BATES
HORIZ.: 1"=30'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 13 / 32
C4.03

XXX-XXXXX XXX-XXX

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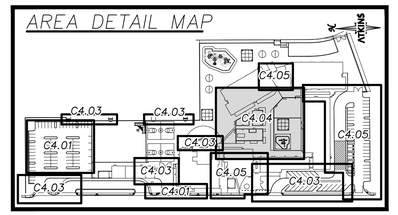

COURT YARD/ZOO GRADING DETAIL

SCALE: 1"=10'

1 C4.04

| | CONSTRUCTION NOTES |
|---|---|
| 1A | CONSTRUCT 3.0" OF AC PAVEMENT OVER 6.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 1B | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 2 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 3 | CONSTRUCT "A" TYPE CURB PER DETAIL 3 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT SIDEWALK RAMP CCAUSD NO. 235 CASE I. |
| 7 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 8 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 9 | CONSTRUCT 4' VALLEY GUTTER PER DETAIL 10 ON SHEET C8.02. |
| 10 | CONSTRUCT 2' CURB OPENING DETAIL 6 ON SHEET C8.02. |
| 11 | INSTALL 6" CONCRETE RISERS WITH HANDRAIL PER ARCH. PLANS. |
| 12 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 13 | CONSTRUCT RIPRAP SWALE. D50=8", THICKNESS=16". PER DETAIL 7 ON SHEET C8.02 |
| 14 | CONSTRUCT RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DETAILS. |
| 15 | INSTALL FENCE/GATE PER ARCH. SEE DETAIL 5 ON SHEET C8.02 FOR FOOTING |
| 16 | INSTALL 12" MOW CURB PER DETAIL 8 ON SHEET C8.02. |
| 17 | PROPOSED IRRIGATION ENCLOSURE PER LANDSCAPE DRAWINGS. |
| 18 | PROPOSED PLAYGROUND STRUCTURE SEE ARCHITECTURAL PLANS. |
| 19 | CONSTRUCT 0" TO 6" CURB FACE TRANSITION. |
| 20 | INSTALL RAISED PAVEMENT MARKERS PER CCAUSD 235. |
| 21 | PROPOSED PLANTER PER LANDSCAPE DRAWINGS. |
| 22 | CONSTRUCT RAMP WITH HANDRAIL PER ARCH. DRAWINGS. |
| 23 | MATCH EXISTING ELEVATION |
| 24 | INSTALL BUMP STOP PER CCAUSD 238 |
| 25 | CONSTRUCT NVE MAINTENANCE ACCESS PER DETAIL-9 ON SHEET C8.02 |
| 26 | INSTALL DROP INLET. SEE SHEET C5.01 FOR INFORMATION |
| 27 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |

AREA DETAIL MAP




## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST — Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig — Call 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. — CALL BEFORE YOU DO OVERHEAD — 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.

PROFESSIONAL ENGINEER-STATE OF NEVADA — ANTHONY J. ORTIZ — EXP. 12-31-21 — CIVIL — No. 18849 — 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY RIDGE DR, HENDERSON, NV 89014 PHONE: 702-799-5170

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

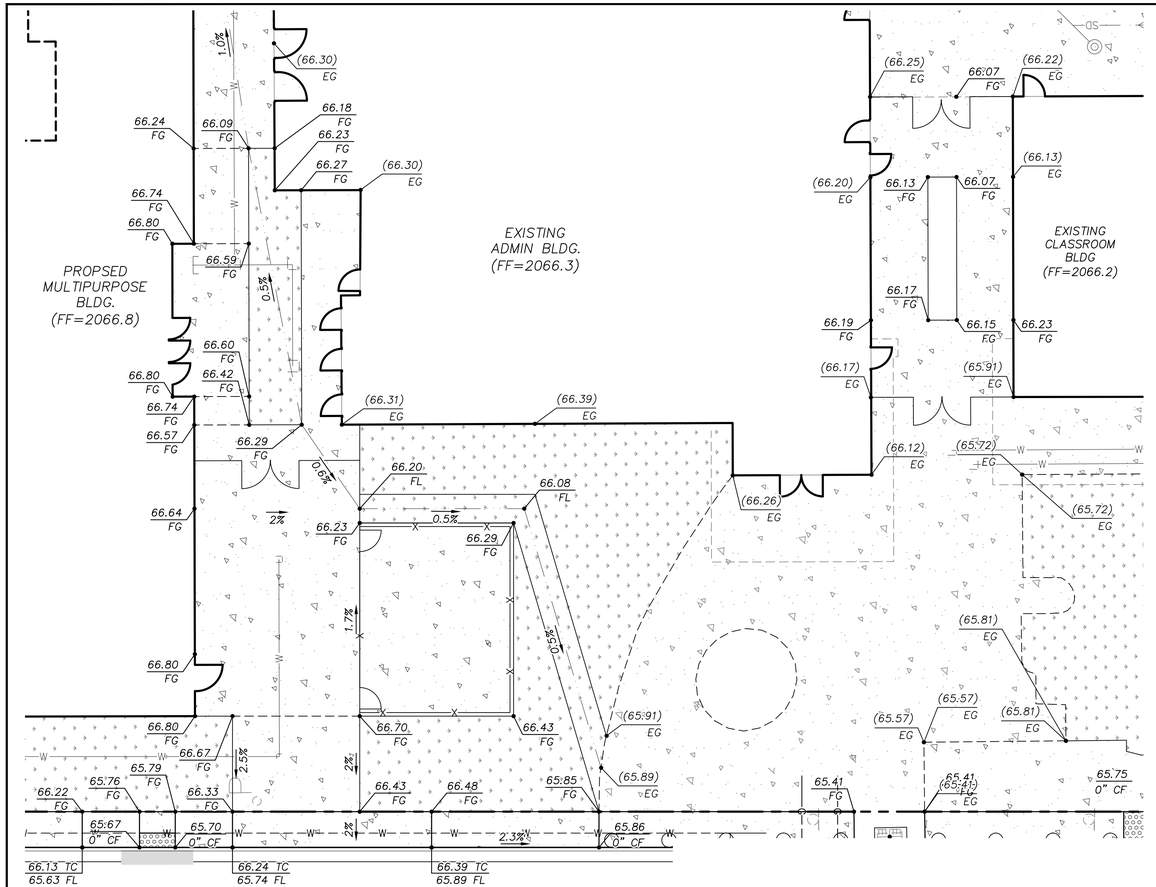
GRADING DETAILS 2

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. BATES
HORIZ.: 1"=30'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 16/32
C4.04

XXX-XXXXX XXX-XXX

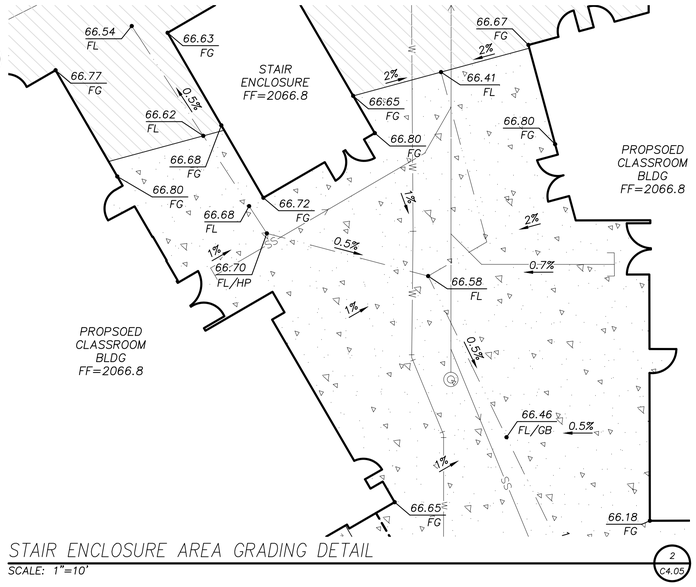
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MULTIPURPOSE/ADMIN CORRIDOR GRADING DETAIL

SCALE: 1"=10'

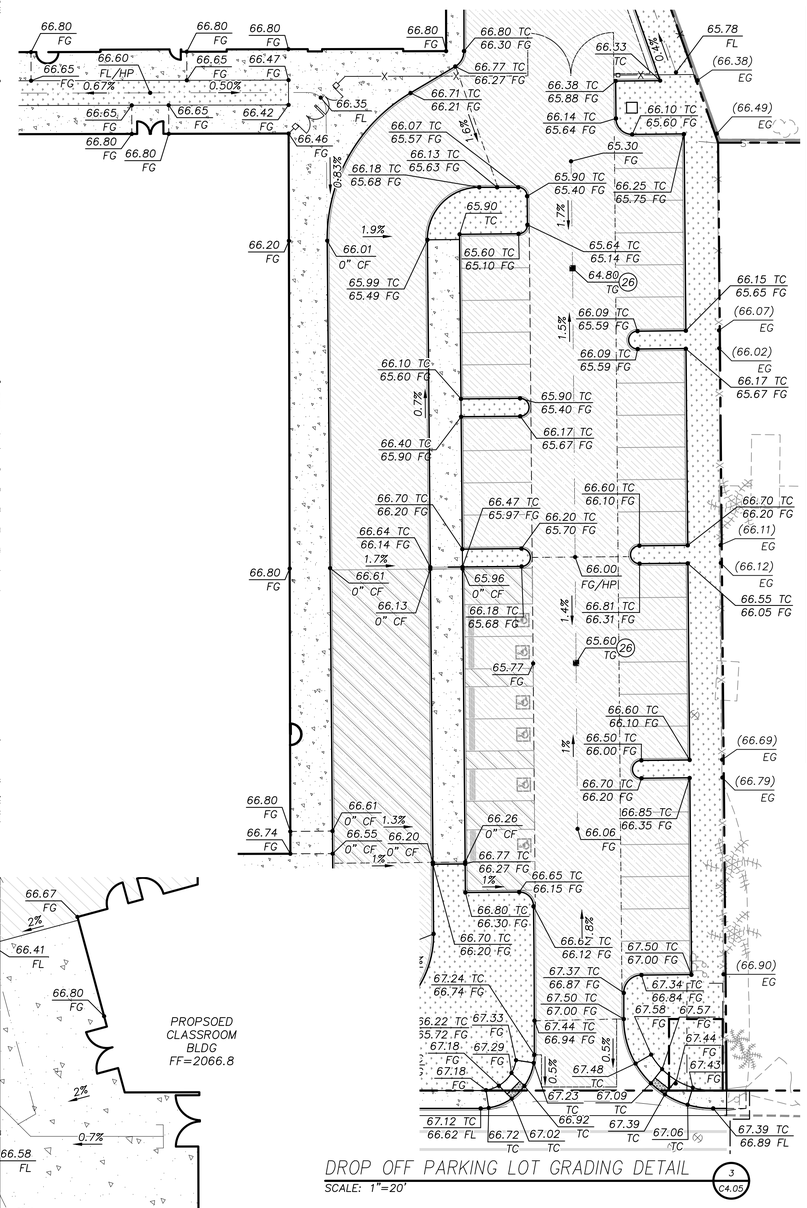
1 / C4.05




STAIR ENCLOSURE AREA GRADING DETAIL

SCALE: 1"=10'

2 / C4.05



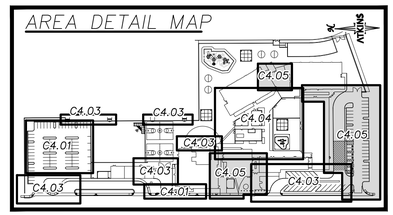
DROP OFF PARKING LOT GRADING DETAIL

SCALE: 1"=20'

3 / C4.05

| | CONSTRUCTION NOTES |
|---|---|
| 1A | CONSTRUCT 3.0" OF AC PAVEMENT OVER 6.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 1B | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 2 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 3 | CONSTRUCT "A" TYPE CURB PER DETAIL 3 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT SIDEWALK RAMP CCAUSD NO. 235 CASE I. |
| 7 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 8 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 9 | CONSTRUCT 4' VALLEY GUTTER PER DETAIL 10 ON SHEET C8.02. |
| 10 | CONSTRUCT 2' CURB OPENING DETAIL 6 ON SHEET C8.02. |
| 11 | INSTALL 6" CONCRETE RISERS WITH HANDRAIL PER ARCH. PLANS. |
| 12 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 13 | CONSTRUCT RIPRAP SWALE. D50=8", THICKNESS=16". PER DETAIL 7 ON SHEET C8.02 |
| 14 | CONSTRUCT RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DETAILS. |
| 15 | INSTALL FENCE/GATE PER ARCH. SEE DETAIL 5 ON SHEET C8.02 FOR FOOTING |
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| 23 | MATCH EXISTING ELEVATION |
| 24 | INSTALL BUMP STOP PER CCAUSD 238 |
| 25 | CONSTRUCT NVE MAINTENANCE ACCESS PER DETAIL–9 ON SHEET C8.02 |
| 26 | INSTALL DROP INLET. SEE SHEET C5.01 FOR INFORMATION |
| 27 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |

AREA DETAIL MAP




## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DIG OVERHEAD 1-702-227-2929

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NEVADA PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ EXP. 11-30-21 CIVIL No. 18849

6/01/2020

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

REVISIONS

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROUTE LN, HENDERSON, NV 89014 PHONE: 702-799-5700

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
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950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

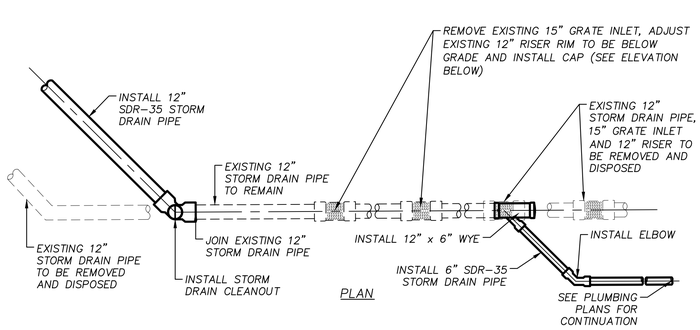
GRADING DETAILS 3

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: P. BATES
HORZ.: 1"=10'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 17/32
C4.05

XXX-XXXXX XXX-XXX

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## EXISTING STORM DRAIN CONNECTION DETAIL

N.T.S.

| | STORM DRAIN CONSTRUCTION NOTES |
|---|---|
| 1 | INSTALL 3" SCHEDULE 80 PVC STORM DRAIN PIPE. |
| 2 | INSTALL 4" C900 PVC STORM DRAIN PIPE. |
| 3 | INSTALL 5" C900 PVC STORM DRAIN PIPE. |
| 4 | INSTALL 6" SDR-35 STORM DRAIN PIPE. |
| 5 | INSTALL 8" SDR-35 STORM DRAIN PIPE. |
| 6 | INSTALL 12" SDR-35 STORM DRAIN PIPE. |
| 7 | INSTALL DUAL 12" SDR-35 STORM DRAIN PIPE |
| 8 | INSTALL 18" SDR-35 STORM DRAIN PIPE. |
| 9 | INSTALL 48" TYPE II SDMH PER CCAUSD #405.2 |
| 10 | INSTALL DROP INLET PER DETAILS ON SHEET C8.01 |
| 11 | INSTALL STORM DRAIN CLEAN OUT |
| 12 | INSTALL STORM DRAIN WYE |
| 13 | INSTALL 2'-2' x 2' NDOT TYPE 2 DROP INLET WITH NEENAH R-4345 SQUARE BEEHIVE GRATE OR EQUIVALENT. |
| 14 | CONNECT TO MODIFIED TYPE "C-D" DROP INLET PER CCAUSD 412.1. SEE SHEETS C6.01 TO C6.03 FOR TONOPAH DRIVE AND VIRGINIA CITY AVENUE STORM DRAIN SYSTEM INFORMATION. |
| 15 | CONNECT TO 18" STORM DRAIN PIPE. SEE SHEETS C6.01 TO C6.03 FOR TONOPAH DRIVE STORM DRAIN SYSTEM INFORMATION. |
| 16 | CONNECT TO EXISTING 18" STORM DRAIN PIPE |
| 17 | SEE PLUMBING PLANS FOR CONTINUATION INSIDE BUILDING. |
| 18 | CONNECT EXISTING TO PROPOSED STORM DRAIN SYSTEM AND CAP EXISTING DROP INLETS. SEE DETAIL-A, THIS SHEET. |
| 19 | INSTALL 24" SDR-35 STORM DRAIN PIPE. |

### NOTES:

1. SEE SHEETS C4.00, C4.01, AND C4.02 FOR GRADING
2. SEE SHEETS C5.02 AND C5.03 FOR SEWER, DOMESTIC WATER AND FIRE WATER.
3. SEE SHEET C5.04 FOR UTILITY CROSSING INFORMATION.
4. SEE SHEET C8.00 FOR CROSS SECTIONS AND SHEET C8.02 AND C8.03 FOR SECTION DETAILS.
5. ALL ONSITE STORM DRAINAGE AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY CLARK COUNTY SCHOOL DISTRICT.

GRAPHIC SCALE
30 0 15 30 60
HORIZONTAL: 1"=30'

### GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

### BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

### BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

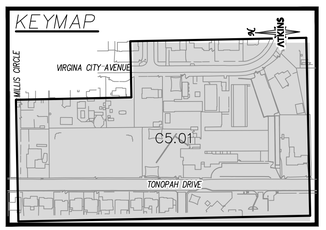
Call before you dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ EXP. 12-31-21 CIVIL No. 18849

KEYMAP




REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROUTE LN, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
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950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

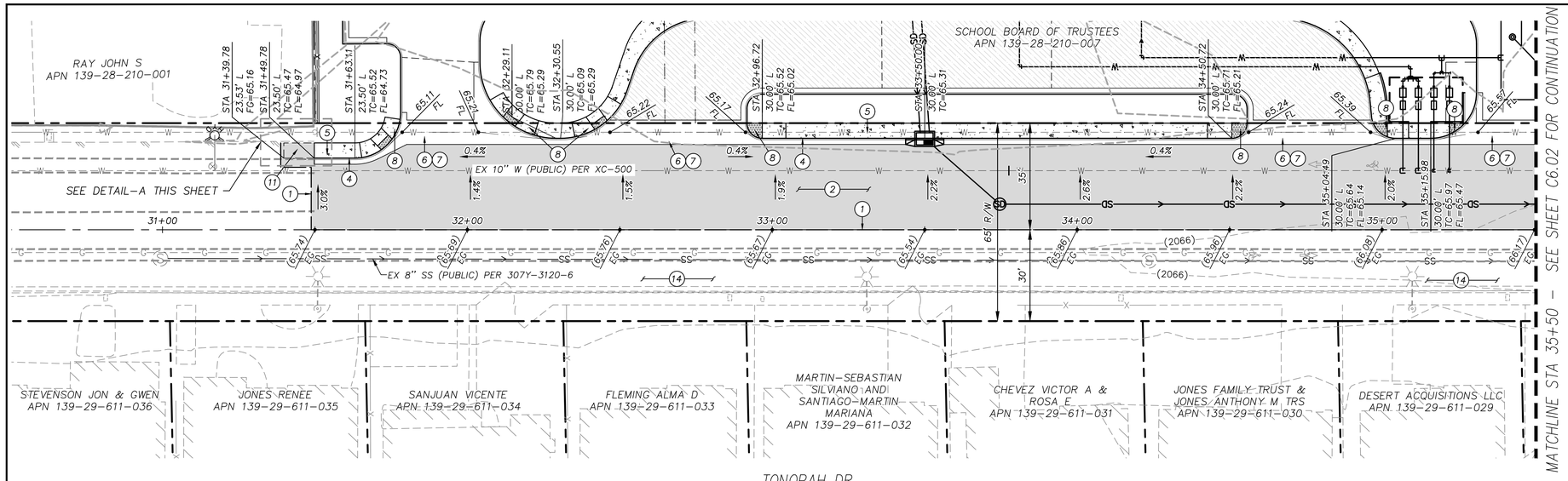
STORM DRAIN PLAN

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: T. ORTIZ
HORZ.: 1"=30'
VERT.: NONE

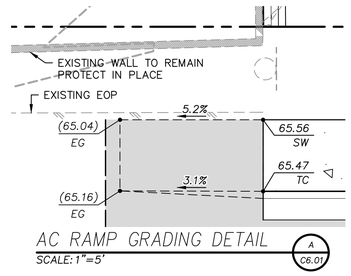
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 19/32
C5.01

XXX-XXXXX XXX-XXX

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| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 3 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 7 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |
| 8 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 9 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 10 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422. L=5'; T=6"; D= 6.41' |
| 11 | CONSTRUCT AC RAMP PER DETAILS A AND B ON SHEETS C6.01 AND C6.03. |
| 12 | CONSTRUCT 0" "L" TYPE CURB PER CCAUSD NO. 216. |
| 13 | CONSTRUCT 6" TO 0" CURB FACE TRANSITION. |
| 14 | PROTECT EXISTING IMPROVEMENTS IN PLACE |
| 15 | CONSTRUCT SIDEWALK RAMP CASE "I" PER CCAUSD NO. 235 |
| 16 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422 L=5', D=6.18' |




AC RAMP GRADING DETAIL
SCALE:1"=5'
A C6.01




GRAPHIC SCALE
30 0 15 30 60
HORIZONTAL: 1"=30'
12 0 3 6 12
VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
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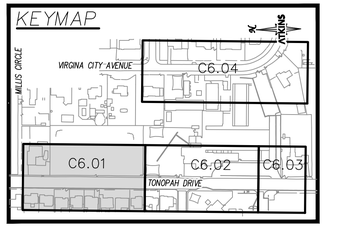
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT

PROJECT NO. 137309 FIRST APPROVED DATE: _____




PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY M. TRAN CIVIL No. 18943 EXP. 12-31-21
6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1190 MILITARY ROUTE DR, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

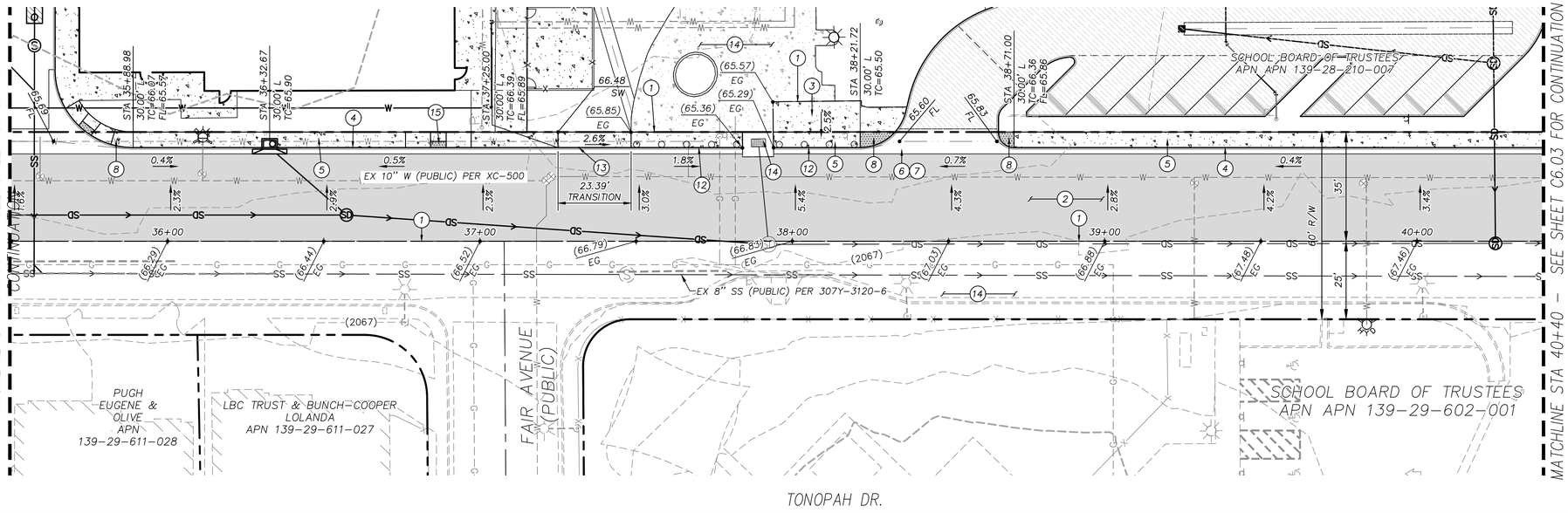
PLAN AND PROFILE 1
TONOPAH DRIVE STA 31+00 TO 37+50

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: C. ORTIZ
HORZ.: 1"=30'
VERT.: 1"=4'

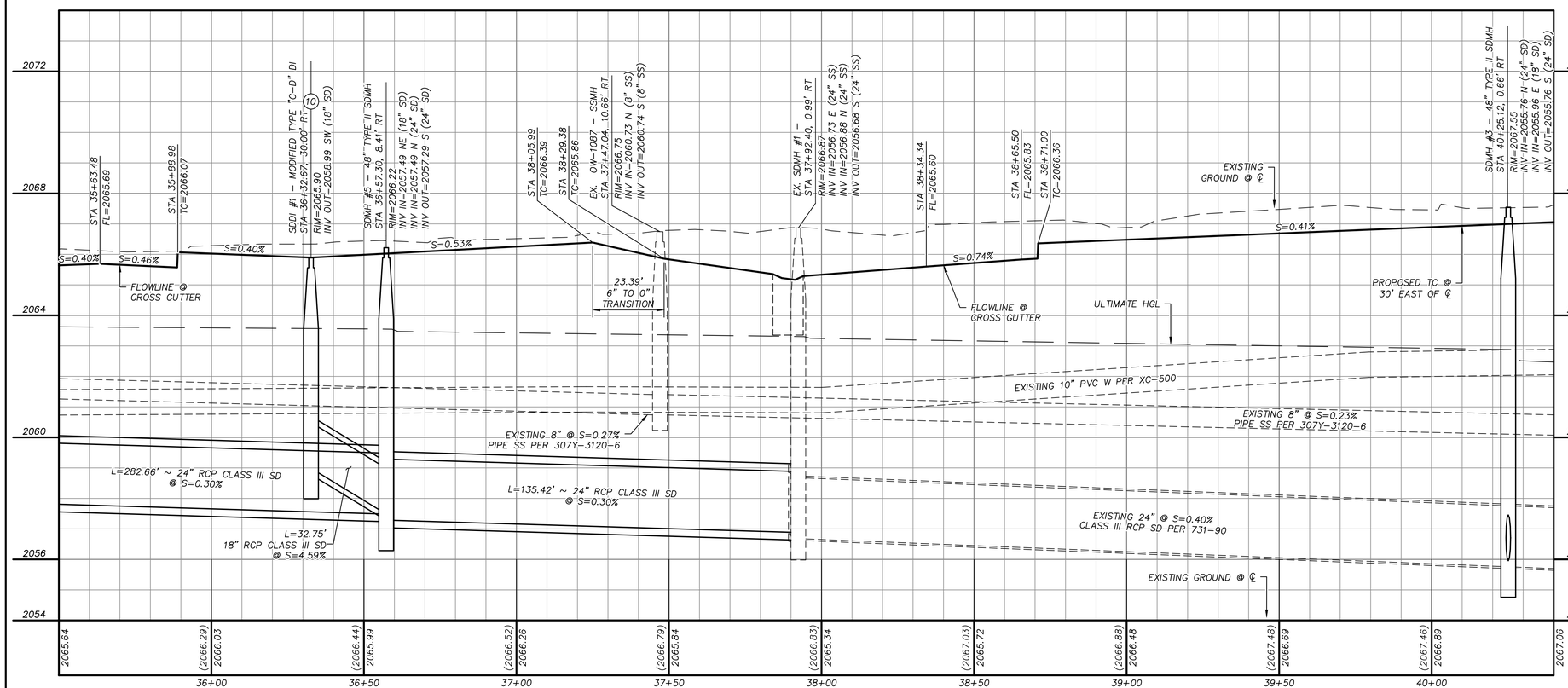
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.23/32
C6.01

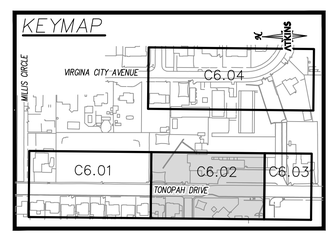
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| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 3 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 7 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |
| 8 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 9 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 10 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422. L=5';T=6"; D= 6.41' |
| 11 | CONSTRUCT AC RAMP PER DETAILS A AND B ON SHEETS C6.01 AND C6.03. |
| 12 | CONSTRUCT 0" "L" TYPE CURB PER CCAUSD NO. 216. |
| 13 | CONSTRUCT 6" TO 0" CURB FACE TRANSITION. |
| 14 | PROTECT EXISTING IMPROVEMENTS IN PLACE |
| 15 | CONSTRUCT SIDEWALK RAMP CASE "I" PER CCAUSD NO. 235 |
| 16 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422 L=5', D=6.18' |




GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

12 0 3 6 12

VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

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CENTRAL MERIDIAN: 114°58'00" W
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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. CABRERA No. 18943 EXP. 12-31-21 CIVIL 6/01/2020

REVISIONS

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2270 Corporate Circle
Suite 200 Henderson
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CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROAD #4, HENDERSON, NV 89014 PHONE: 702-799-8010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

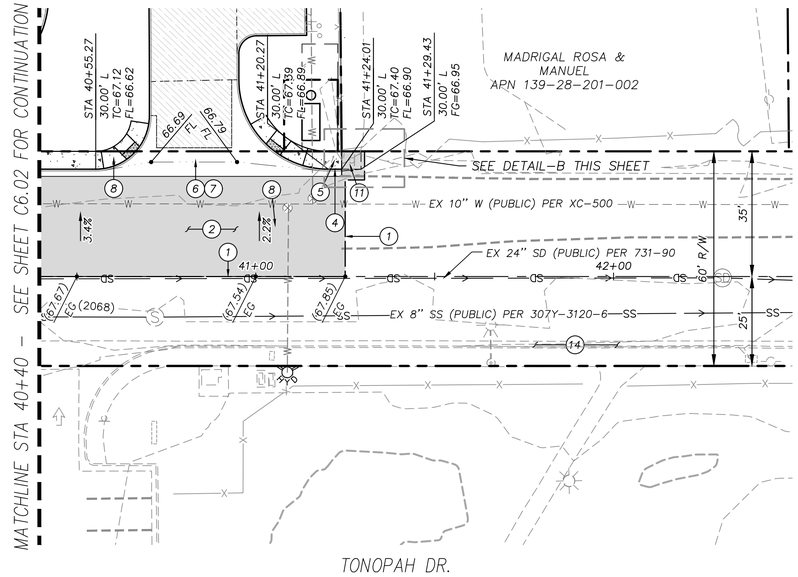
PLAN AND PROFILE 2
TONOPAH DRIVE 35+67 TO 40+75

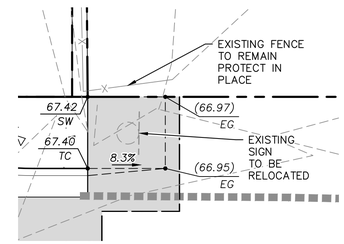
DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. ORTIZ
HORIZ.: 1"=30'
VERT.: 1"=6'

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.24/32
C6.02

XXX-XXXXX XXX-XXX

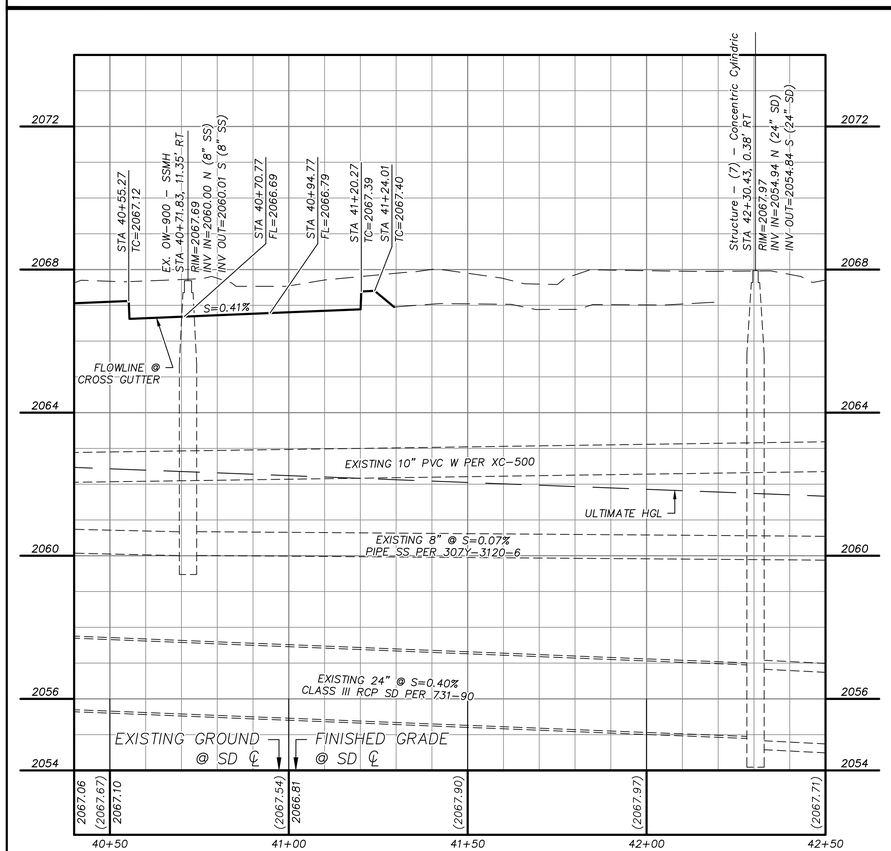
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AC RAMP GRADING DETAIL (B / C6.03)
SCALE: 1"=5'

| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
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GRAPHIC SCALE
30 0 15 30 60
HORIZONTAL: 1"=30'
12 0 3 6 12
VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

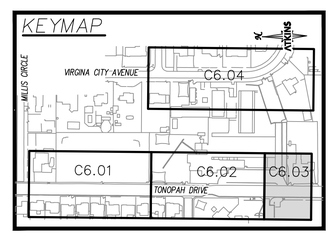
FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ Exp. 12-31-21 CIVIL No. 18993
6/01/2020




REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
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2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
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CLARK COUNTY SCHOOL DISTRICT
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1180 MILITARY ROAD LN, HENDERSON, NV 89014 PHONE: 702-799-8010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

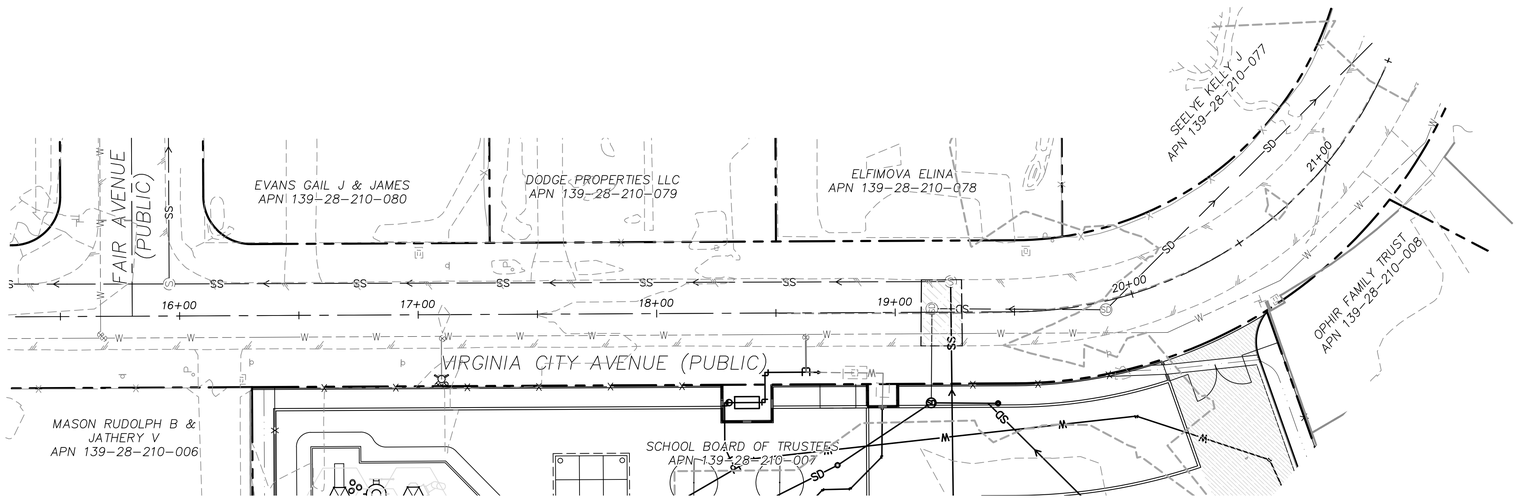
PLAN AND PROFILE 3
TONOPAH DRIVE 40+75 TO 42+50

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. ORTIZ
HORIZ.: 1"=30'
VERT.: 1"=6'

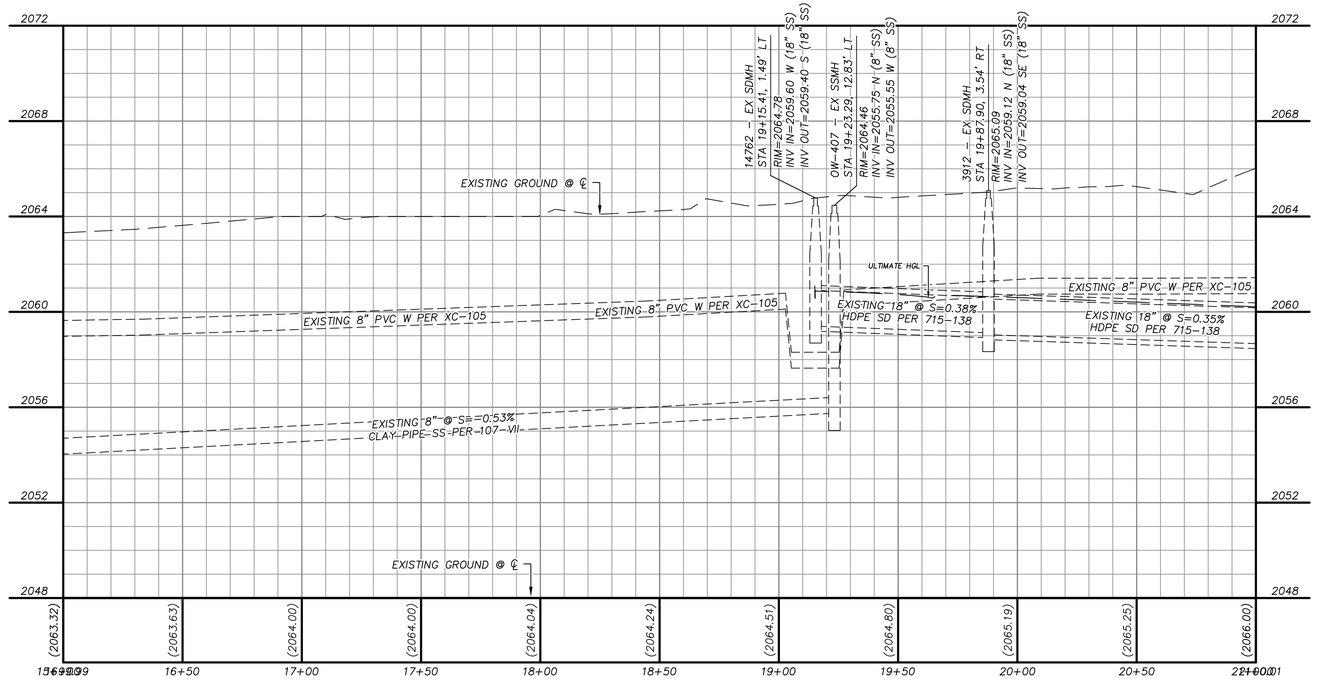
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 25/32
C6.03

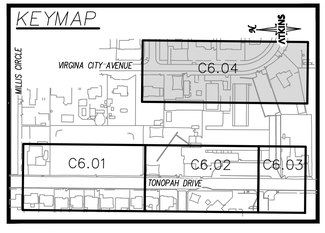
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| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
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GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

12 0 3 6 12

VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

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

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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY ORTIZ EXP. 12-31-21 CIVIL No. 18993

6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
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CLARK COUNTY SCHOOL DISTRICT
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100 MILITARY ROUTE DR, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

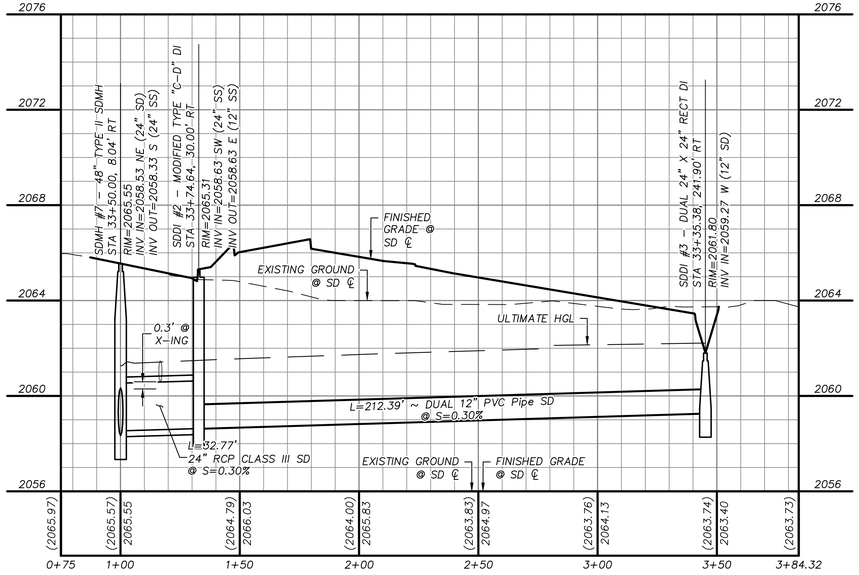
PLAN AND PROFILE 4
VIRGINIA CITY DRIVE 15+50 TO 21+00

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: A. ORTIZ
HORIZ.: 1"=30'
VERT.: 1"=4'

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 26/32
C6.04

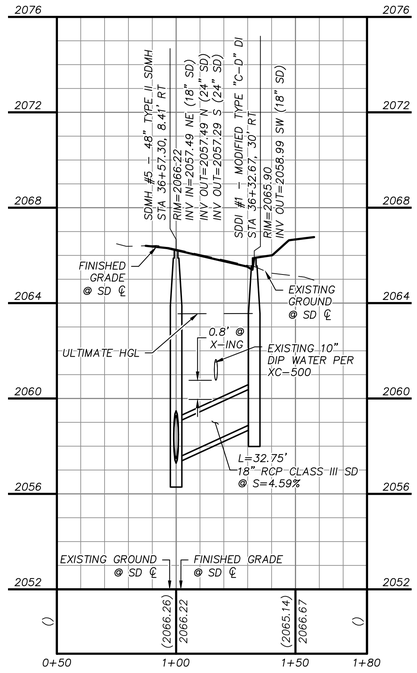
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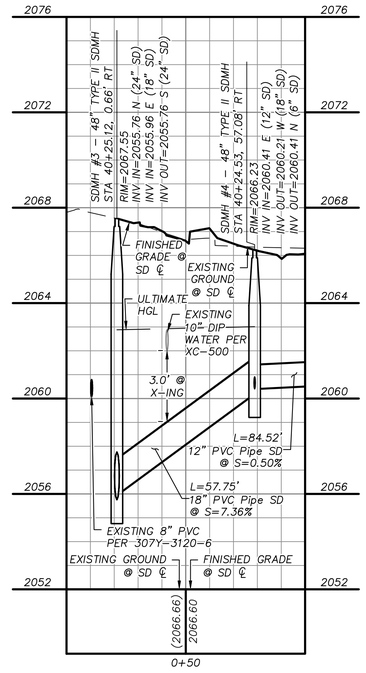

STORM DRAIN LATERAL 1 (A C6.05)

TONOPAH DRIVE STA 33+50; SEE SHEET C5.01



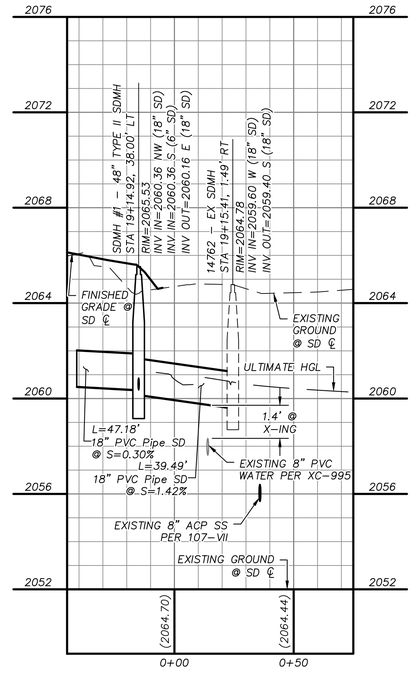

STORM DRAIN LATERAL 2 (B C6.05)

TONOPAH DRIVE STA 36+57; SEE SHEET C5.01




STORM DRAIN LATERAL 3 (C C6.05)

TONOPAH DRIVE STA 40+25; SEE SHEET C5.01




STORM DRAIN LATERAL 4 (D C6.05)

VIRGINIA CITY AVENUE STA 19+15; SEE SHEET C5.01

GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

12 0 3 6 12

VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

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## BENCHMARK

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PROFESSIONAL ENGINEER – STATE OF NEVADA – ANTHONY J. ORTIZ – Exp. 12-31-21 – CIVIL – No. 18943 – 6/01/2020

REVISIONS

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| | | | | |

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CLARK COUNTY SCHOOL DISTRICT

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950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

CONSTRUCTION MANAGEMENT DEPARTMENT
1301 MILITARY RIDGE DR, HENDERSON, NV 89014 PHONE: 702-799-5170

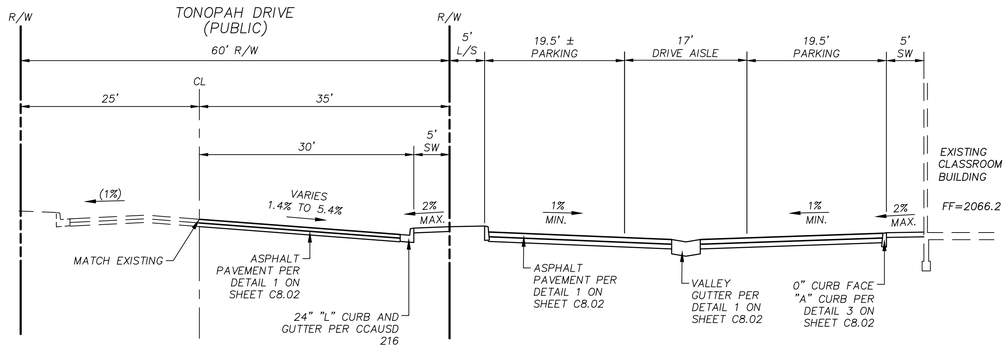
STORM DRAIN LATERAL PROFILES

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: A. ORTIZ
HORZ.: 1"=30'
VERT.: 1"=4'

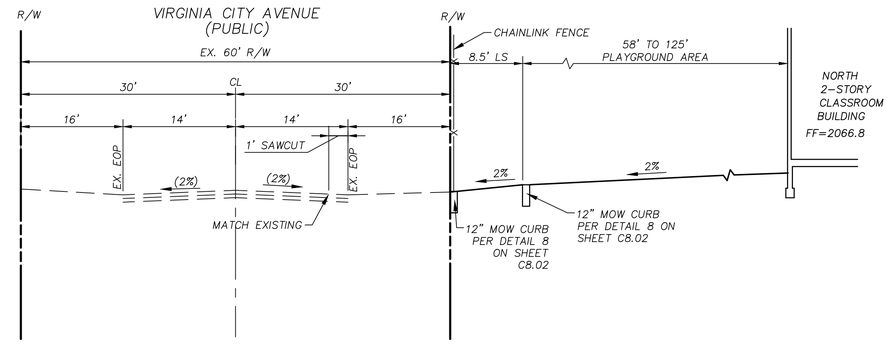
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.27/32
C6.05

XXX-XXXXX XXX-XXX

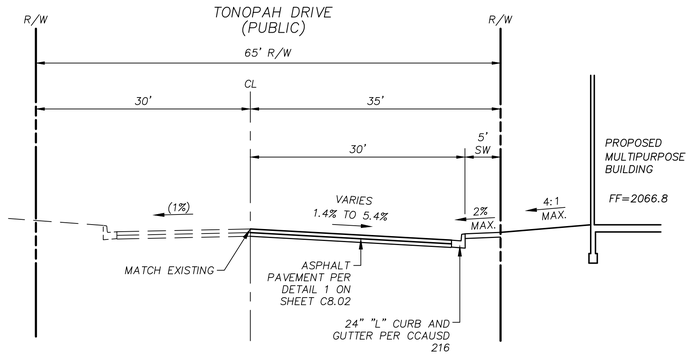
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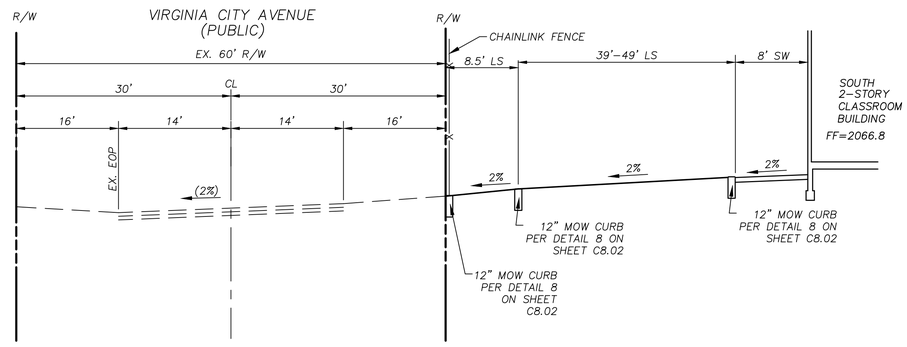


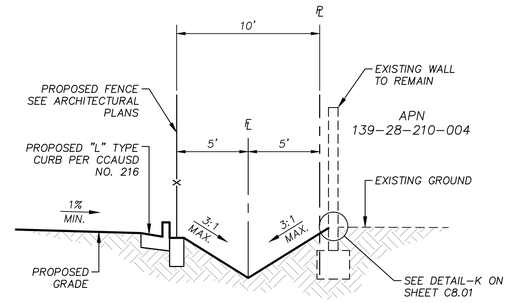

WEST PROPERTY CROSS SECTION (A / C4.02)
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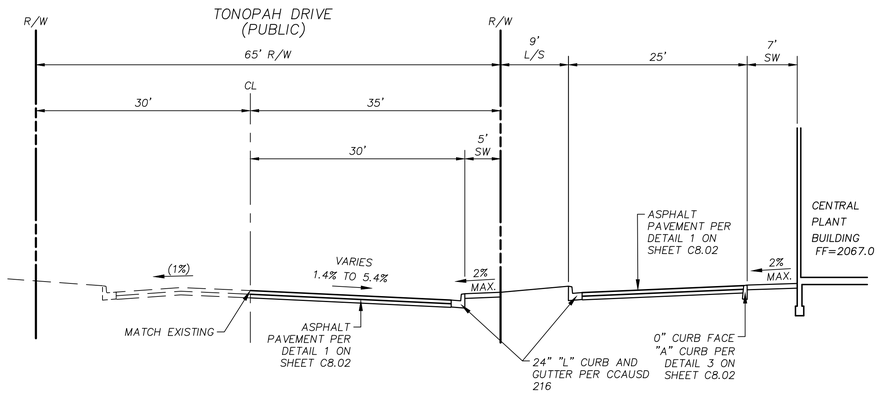

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N.T.S.



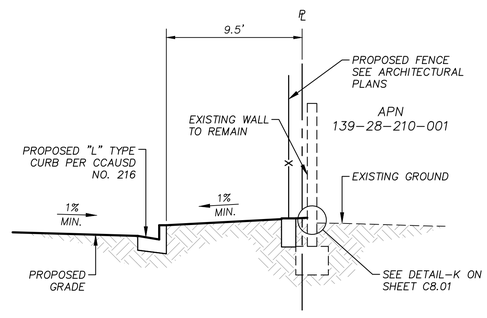



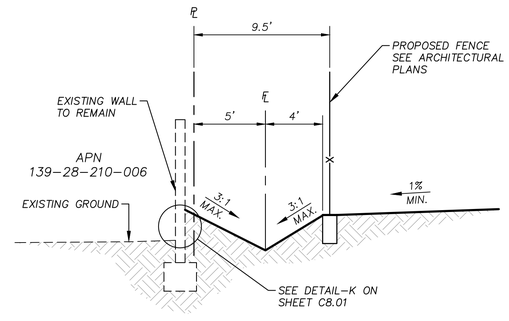

WEST PROPERTY CROSS SECTION (B / C4.01)
N.T.S.




EAST PROPERTY CROSS SECTION (E / C4.02)
N.T.S.




EAST PROPERTY LINE CHANNEL GRADING DETAIL (G / C4.01)
N.T.S.




WEST PROPERTY CROSS SECTION (C / C4.01)
N.T.S.

NORTH PARKING PL GRADING DETAIL (F / C4.01)
N.T.S.

NORTH CLASS ROOM BUILDING PL GRADING DETAIL (H / C4.01)
N.T.S.

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 OR 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 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.

PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ EXP. 12-31-21 CIVIL No. 18993 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY RIDGE DR, HENDERSON, NV 89014 PHONE: 702-799-5170

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

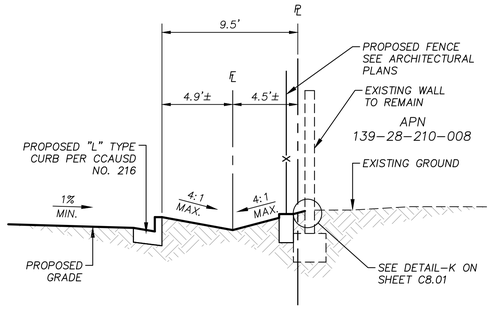
TYPICAL SECTIONS 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. ORTIZ
HORZ.: NONE
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 29/32
C8.00

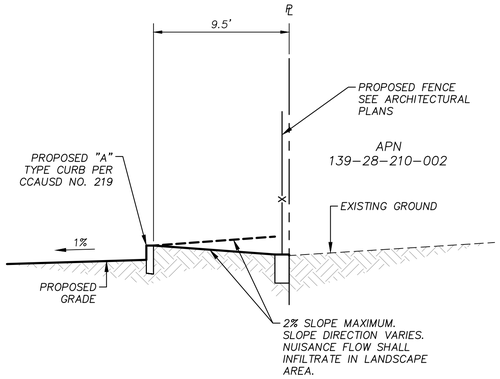
XXX-XXXXX XXX-XXX

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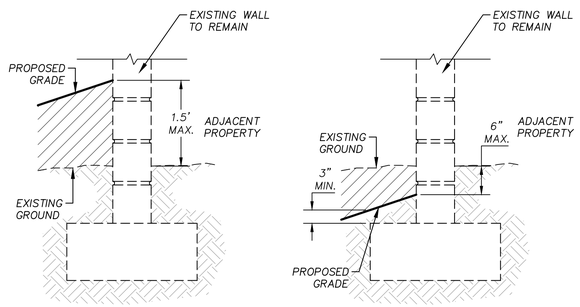

SOUTH CLASS ROOM BUILDING PL CHANNEL DETAIL (1 / C3.01)

N.T.S.




SOUTH KINDERGARTEN PARKING LOT GRADING DETAIL (J / C3.01)

N.T.S.




IN AREAS OF FILL

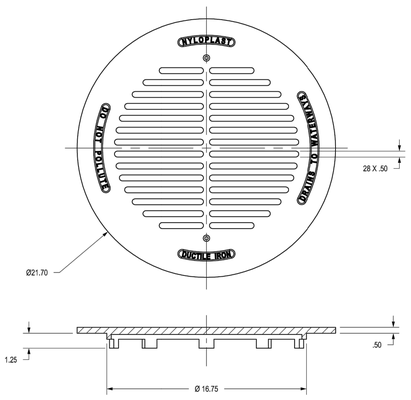
IN AREAS OF CUT

EDGE CONDITION AT EXISTING PROPERTY WALL (K / C3.01)

N.T.S.

## 1801DI

APPROX. DRAIN AREA = 84.61 SQ IN
APPROX. WEIGHT = 47.22 LBS




DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.

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| | | | |
|---|---|---|---|
| DRAWN BY | CJA | MATERIAL | |
| DATE | 7-5-01 | | |
| REVISED BY | JJC | PROJECT NO./NAME | |
| DATE | 8-14-12 | | |
| DWG SIZE | A | SCALE 1:6 | SHEET 1 OF 1 |

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FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 18 IN DROP IN

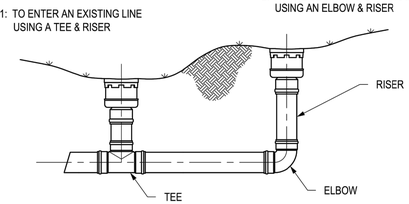
DWG NO. 7001-110-074 REV D

## WHEN ARE INLINE DRAINS USED?

2708AG _ _ X
2710AG _ _ X
2712AG _ _ X
2715AG _ _ X
2718AG _ _ X
2724AG _ _ X
2730AG _ _ X

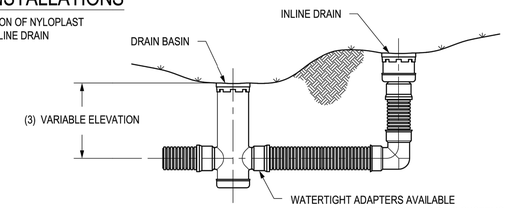
1: TO ENTER AN EXISTING LINE USING A TEE & RISER

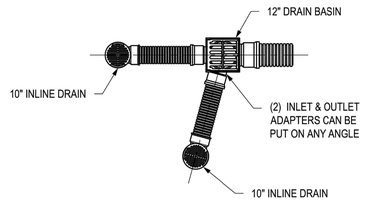
2: AT THE BEGINNING OF A DRAIN LINE USING AN ELBOW & RISER




## TYPICAL INSTALLATIONS

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN

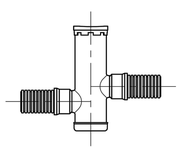


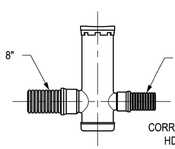

## WHEN ARE DRAIN BASINS USED?

2808AG _ _ X
2810AG _ _ X
2812AG _ _ X
2815AG _ _ X
2818AG _ _ X
2824AG _ _ X
2830AG _ _ X
2836AG _ _ X

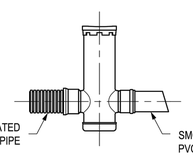
1: TO CHANGE ELEVATION



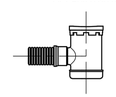
2: TO CHANGE PIPE DIAMETER



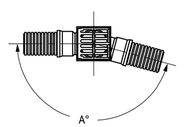

3: TO CHANGE PIPE TYPE




4: FOR SHALLOW APPLICATIONS



5: TO CHANGE DIRECTION




1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 36"
2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065
4 - REDUCING CONES DOWN TO 30" DIAMETER WILL BE REQUIRED FOR 36" DRAIN BASINS.

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| | | | |
|---|---|---|---|
| DRAWN BY | AWA | MATERIAL | |
| DATE | 8-10-00 | | |
| REVISED BY | NMH | PROJECT NO./NAME | |
| DATE | 11-2-18 | | |
| DWG SIZE | A | SCALE 1:40 | SHEET 1 OF 1 |

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3130 VERONA AVE
BUFORD, GA 30518
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FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 8 IN - 36 IN TYPICAL INSTALLATION OPTIONS

DWG NO. 7001-110-042 REV E

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
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ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

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PROFESSIONAL ENGINEER-STATE OF NEVADA — ANTHONY J. CORTEZ — Exp. 12-31-21 — CIVIL — No. 18943 — 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1830 MILITARY ROAD DR., HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

TYPICAL SECTIONS 2

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: T. CORTEZ
HORIZ.: NONE
VERT.: NONE

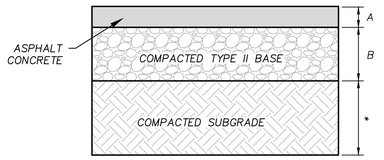
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 29/32
C8.01

XXX-XXXXX XXX-XXX

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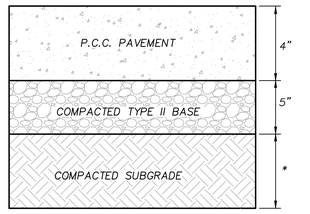
THICKNESS SCHEDULE

| TRAFFIC AREA | A ASPHALT | B TYPE II BASE |
|---|---|---|
| LIGHT DUTY HOURS | 3.0" | 6.0" |
| HEAVY DUTY AREAS | 4.0" | 8.0" |
| FIRE ACCESS LANES | 4.0" | 8.0" |



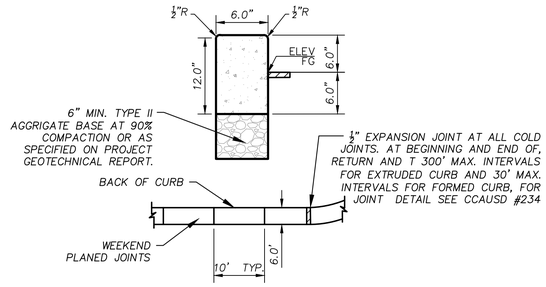

* REFER TO GEOTECHNICAL INVESTIGATION REPORT. FOR PLACEMENT OF COMPACTED SUBGRADE

ONSITE AC PAVEMENT (1 C8.02) N.T.S.

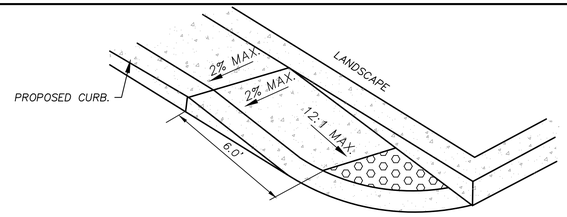



* REFER TO GEOTECHNICAL INVESTIGATION REPORT. FOR PLACEMENT OF COMPACTED SUBGRADE

ONSITE CONCRETE PAVEMENT (2 C8.02) N.T.S.

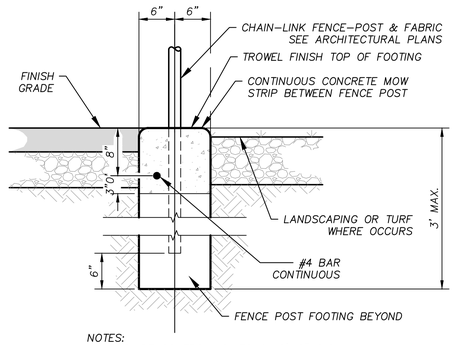



ONSITE TYPE "A" CURB (3 C8.02) N.T.S.



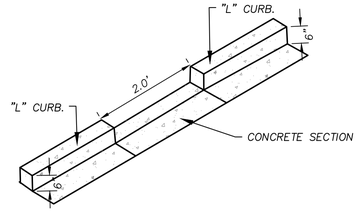

NOTES:
1. RAMP LENGTHS SHALL BE 6'–0" (72") MAXIMUM FOR EACH 6" RISE.
2. RAMP LANDINGS SHALL BE FLAT FOR A MINIMUM OF 5'–0"
3. RAMP CROSS SLOPES SHALL NOT NOT EXCEED 1:48
4. RAMP SLOPES SHALL NOT EXCEED 1:12
5. HEIGHT OF CURBS (OR EDGES ) SHALL NOT EXCEED 6"
6. RAMP CLEAR WIDTHS TO BE 3'–0" MINIMUM
7. RAMP HEIGHTS ARE NOT INTENDED TO EXCEED 6" HEIGHT PER EACH RUN
8. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES TO BE INSTALLED PER CCAUSD NO. 235.

ACCESSIBLE CURB RAMP (4 C8.02) N.T.S.

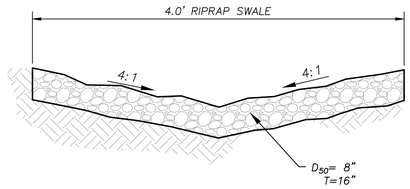



NOTES:
1. PROVIDE CONTROL JOINTS @ 10'–0" O.C

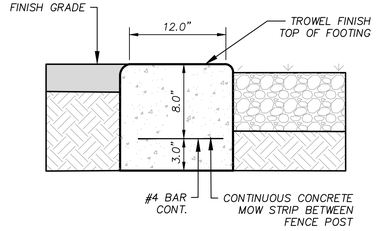
FENCE FOOTING DETAIL (5 C8.02) N.T.S.



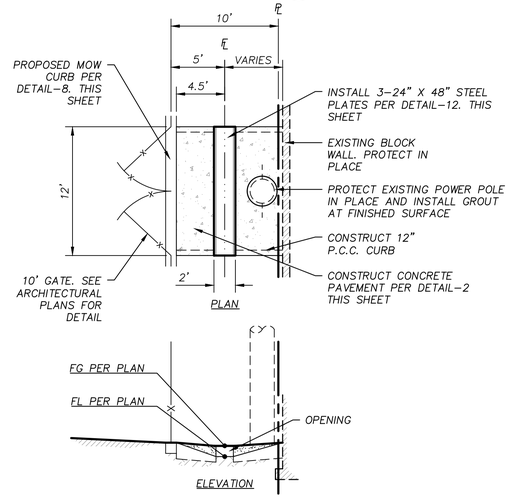

CURB CUT (6 C8.02) N.T.S.



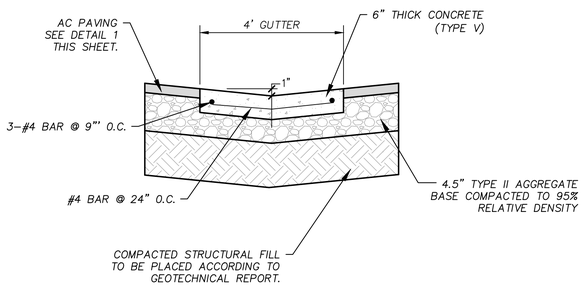

RIPRAP SWALE (7 C8.02) N.T.S.




MOW CURB (8 C8.02) N.T.S.

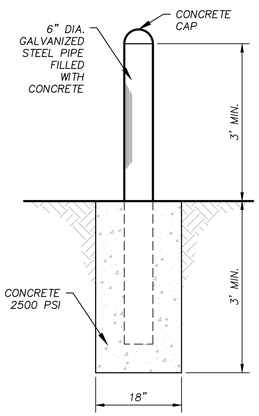



NVE MAINTENANCE ACCESS (9 C8.02) N.T.S.

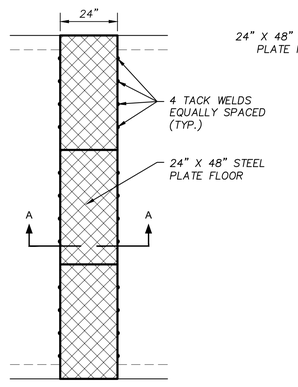



NOTE:
PROVIDE EXPANSION JOINTS @ 30'–0" O.C. AND CONTROL JOINTS @ 5'–0" O.C. IN CONCRETE DRAIN.

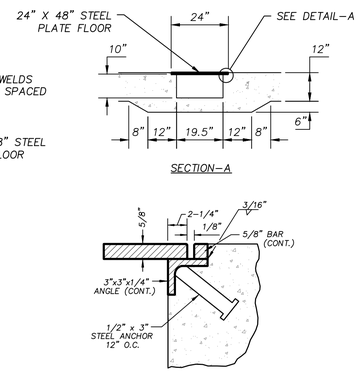
4' CONCRETE GUTTER (10 C8.02) N.T.S.




PIPE BOLLARD DETAIL (11 C8.02) N.T.S.




PLAN




STEEL PLATE FOR MAINTENANCE ACCESS DETAIL (12 C8.02) N.T.S.

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR A.V. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 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.

PROFESSIONAL ENGINEER – STATE OF NEVADA – ANTHONY J. ORTIZ – Exp. 12-31-21 – CIVIL – No. 18849 – 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILLWAY ROBERT LA. HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

DETAILS 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: T. ORTIZ
HORZ.: NONE
VERT.: NONE

JOB NO: 100067217
DATE: 4/10/2020
DRAWING NO. 31/32
C8.02

XXX–XXXXX XXX–XXX

X:\Projects\Land Development\SH Architecture\100067217 – Mabel Hoggard ES– Replacement_Sheet\67217–13–DETL–D1.dwg LAYOUT: C8.02 Jun 01, 2020 – 4:59PM

# Supplement to
# Technical Drainage Study
for
## Mabel Hoggard Elementary School
950 North Tonopah Drive
Las Vegas, Nevada

APN: 139-28-210-007

**Prepared by:**
**Atkins**
2270 Corporate Circle, #200
Henderson, NV 89074
(702) 551-0365

**Prepared for:**
**Clark County School District**
Real Property Mgt.
1180 Military Tribute Pl.
Henderson, NV 89074
*(702) 799-5214*

ATKINS

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL

# DRAINAGE STUDY INFORMATION FORM

Name of Development: Mabel Hoggard School Replacement Date: June 1, 2020

Location of Development: a) Descriptive (Cross Streets) North/South: Tonopah

East/West: Washington

b) Section: 28 Township: 20 South Range: 61 East

c) APN : 139-28-210-007

Name of Owner: School Board of Trustees c/o Clark County School District real Property Management

Telephone No.: (702) 799-5214 Fax No.: E-Mail Address:

Address: 1180 Miliatry Tribute Pl., Henderson, NV 89074

**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 | | |

1. Total Owned Land Area: At Site: 7.03 Acres Being Developed/Disturbed: 7.03 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.): Civic District - School
5. Approximate upstream land area which drains to the subject site: +/- 1.9 Acres
6. Has the site drainage been evaluated in the past? ☒ **YES** ☐ **NO** If yes, please identify documentation: Technical Drainage Study for Mabel Hoggard, by Martin & Martin, February 2001 (CLV DS #925)
7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: Existing Washington Avenue storm drain at Tonopah Drive and Comstock Drive (via Virginia City Ave and Ophir Drive)
8. Briefly describe your proposed schedule for the subject project: ASAP




3/24/2020

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.**

| Revision | Date |
|---|---|
| | |
| | |
| | |

DS# 05249

Local Entity File No.

REFERENCE:

STANDARD FORM 1

Updated 05/01/2008

| CITY OF LAS VEGAS<br>INTER-OFFICE MEMORANDUM | | | DATE:<br>May 19, 2020 |
|---|---|---|---|
| TO:<br>**Land Development Services**<br>Department of Building & Safety | | | FROM:<br>Albert Sung, P.E.<br>Flood Control Project Engineer<br>Department of Public Works |
| **SUBJECT:** | Drainage Study for:<br>**Mabel Hoggard Elementary School** | | **COPIES TO:**<br>Atkins |
| **Cross Streets:** | NEC of Washington Blvd. & Tonopah Road | | Clark County School District |
| **File Number:** | F:\Depot\DSMemos\DS5249B.doc | | Bart Anderson, P.E., DevCo |
| **Parcel Number:** | 139-28-210-007 | | |
| **Zoning Action:** | SDR-76079; VAR-78137; VAR-76077 & PMP-78198 | | |
| **FEMA Flood Zone** | YES | NO **X** | |
| **Proposed Storm Drain** | YES **X** | NO | |

| HISTORY | DATE RECEIVED | DATE REVIEWED | COMMENTS | REVIEW FEES | FEES PAID Payment Trn # |
|---|---|---|---|---|---|
| 1st Submittal | 2/13/2020 | 3/9/2020 | Not Approved | $400.00 | 3744256: $400 |
| 2nd Submittal (Fee Paid on 5/6/2020) | 4/2/2020 & 5/6/2020 | 5/19/2020 | See Comments Below | $400.00 | 3840667: $400 |
| | | | **TOTAL FEES (LDDRS):** | **$800.00** | ---- |

**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. |

1. **Second Request**: *Provide a copy of the zoning/planning conditions associated with this site (**SDR-76079; VAR-78137; VAR-76077 & PMP-78198**) with the next submittal to verify compliance with conditions. Flood Control will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the City Council). Any associated conditions of approval that revise the site drainage parameters will require that the drainage study be revised and resubmitted.*

   The material provided in the last submittal was not a letter of approval from the *City Council* or *City Planning Commission*. Provide as such prior to the final approval of the subject drainage study.

2. **Sheet C4.01** and **Sheet C4.02**: A proposed grate type inlet (TG61.80) at the east boundary on **Sheet C4.01** is at a low point which does not appear to have an emergency overflow path in case the inlet is totally clogged. The ponding depth will be about 3' before the drainage overtops a high point (FL/HP 64.74) to the south. This ponding depth will inundate a substantial area of the parking lot at the north end of the school site which is unacceptable.

   It appears that the proposed inlet can be eliminated by running a concrete valley gutter in the landscape strip to the south and then east to *Virginia City Avenue* for discharge.

   If the ***School District*** and the engineer maintain the current design, provide a notarized letter from the ***School District*** to indemnify the ***City of Las Vegas*** of any liability for future flooding potential in the stated area above. This letter must be on file prior to the final approval of the drainage study.

3. **Second Request**: *Identify Project location on all exhibits including the MPU maps.*

4. **Second Request: *Sheet C6.01 & Sheet C6.02***: *Label the depth of the two proposed drop inlets in Tonopah Road. Provide Street Name on all pertinent plan & profile sheets.*

5. Revise all drop inlets to Type "C-D" Modified Drop Inlet per Standard Drawing 412.1 or Neenah Pre-cast inlets. Note that the lengths of "C-D" modified inlets are in the multiple of 2.5'. Revise all pertinent construction notes and callouts accordingly.

**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.

**END OF REMARKS**
HDR/AYS

T/R/S: T20S/R61E/28
AREA M-28

**LAS VEGAS CITY COUNCIL**

CAROLYN G. GOODMAN
*Mayor*

LOIS TARKANIAN
*Mayor Pro Tem*

STAVROS S. ANTHONY
BOB COFFIN
MICHELE FIORE
CEDRIC CREAR
WARD 2 *(Vacant)*

SCOTT D. ADAMS
*City Manager*

DEPARTMENT OF PLANNING
**ROBERT SUMMERFIELD**
DIRECTOR

**DEVELOPMENT SERVICES CENTER**
333 N. RANCHO DRIVE
3RD FLOOR
LAS VEGAS, NV 89106
702.229.6301 | VOICE
702.474.7463 | FAX
711 | TTY

cityoflasvegas
lasvegasnevada.gov

**June 20, 2019**

Ms. Linda K. Perri
School Board of Trustees
1180 Military Tribute Place
Henderson, Nevada 89074

***RE: SDR-76079 [PRJ-75793] - SITE DEVELOPMENT PLAN REVIEW RELATED TO VAR-76077***
***CITY COUNCIL MEETING OF JUNE 19, 2019***

Dear Ms. Perri:

The City Council at a regular meeting held on June 19, 2019 voted to ***APPROVE*** a request for a Site Development Plan Review FOR A PROPOSED TWO-STORY, 88,540 SQUARE-FOOT PRIMARY PUBLIC SCHOOL DEVELOPMENT on 7.03 acres at 950 North Tonopah Drive (APN 139-28-210-007), C-V (Civic) Zone, Ward 5 (Crear) [PRJ-75793].

This approval is subject to the following conditions:

***Planning***

1. Approval of and conformance to the Conditions of Approval for Variance (VAR-76077) shall be required, if approved.

2. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.

3. All development shall be in conformance with the site plan, landscape plan, and building elevations, date stamped 03/18/19, except as amended by conditions herein.

4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit.

PRJ-77865
11/21/19

6. A technical landscape plan, signed and sealed by a Registered Architect, Landscape Architect, Residential Designer or Civil Engineer, must be submitted prior to or at the same time application is made for a building permit. A permanent underground sprinkler system is required, and shall be permanently maintained in a satisfactory manner; the landscape plan shall include irrigation specifications. Installed landscaping shall not impede visibility of any traffic control device.

7. A fully operational fire protection system, including fire apparatus roads, fire hydrants and water supply, shall be installed and shall be functioning prior to construction of any combustible structures.

8. All City Code requirements and design standards of all City Departments must be satisfied, except as modified herein.

***Public Works***

9. Appropriate Mapping action(s), if required, shall record prior to the approval of off-site construction drawings for this site.

10. Construct all incomplete half street improvements on Tonopah Drive and Virginia City Avenue meeting current City Standards adjacent to this site concurrent with development of this site. All existing paving damaged or removed by this development shall be restored at its original location and to its original width concurrent with development of this site.

11. The school shall send all wastewater to the 8-inch public sewer in Virginia City Avenue and abandon the private sewer connection to the private sewer manhole near the south property line.

12. Design and construct an off-site relief sewer in Martin Luther King Boulevard from Fair Avenue to Owens Avenue, at a depth and location acceptable to the Sanitary Sewer Planning Section of the Department of Public Works. Meet with Sanitary Sewer Planning to discuss reimbursement for constructing an oversized sewer in Martin Luther King Boulevard.

13. All private improvements and landscaping installed with this project shall be situated and maintained so as to not create sight visibility obstructions for vehicular traffic at all development access drives and abutting street intersections.

PRJ-77865
11/21/19

14. A Traffic Impact Analysis or other information acceptable to the City Traffic Engineer must be submitted to and approved by the Department of Public Works prior to issuance of any building or grading permits. Comply with the recommendation of the City Traffic Engineer.

15. A Drainage Plan and Technical Drainage Study must be submitted to and approved by the Department of Public Works prior to the issuance of any building or grading permits or submittal of any construction drawings, whichever may occur first. Provide and improve all drainageways recommended in the approved drainage plan/study. The developer of this site shall be responsible to construct such neighborhood or local drainage facility improvements as are recommended by the City of Las Vegas Neighborhood Drainage Studies and approved Drainage Plan/Study concurrent with development of this site.

The Notice of Final Action was filed with the Las Vegas City Clerk on June 20, 2019.

Sincerely,

Robert Summerfield, AICP
Director
Department of Planning

RTS:PL:clb

cc: Ms. Linda K. Perri
Clark County School District
1180 Military Tribute Place
Henderson, Nevada 89074

Ms. Diana Salazar
Clark County School District
Real Property Management
1180 Military Tribute Place
Henderson, Nevada 89074

PRJ-77865
11/21/19

City of Las Vegas

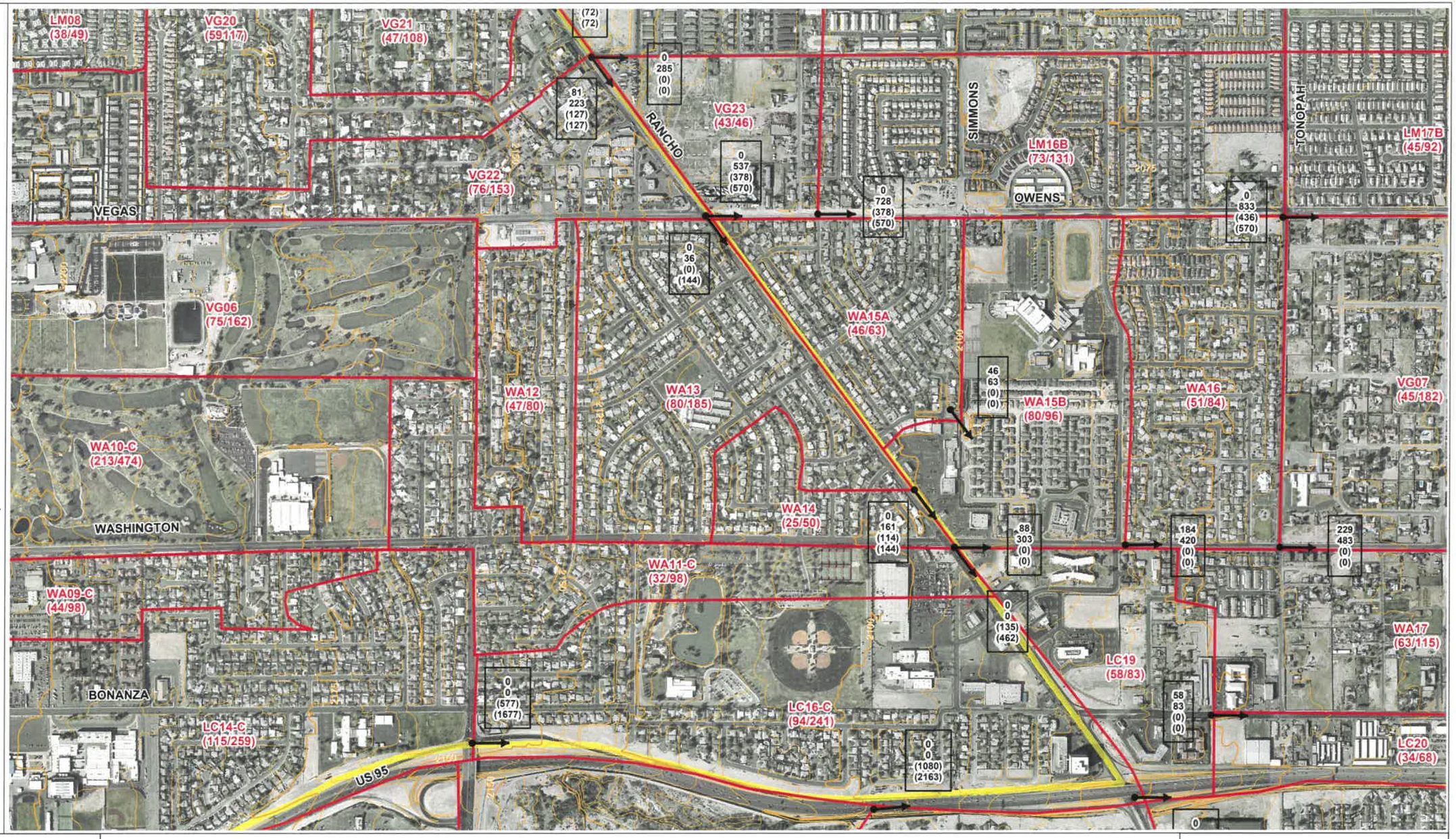
# CENTRAL NEIGHBORHOOD FLOOD CONTROL MASTER PLAN

## LEGEND

- Sub-basin Boundary
- LV12 — Basin ID
- (10yr./100yr.) — Contributing flow from the basin (cfs)
- Flow Arrow
- 250 / 500 / (300) / (800) — 10-Year Street Flow / 100-Year Street Flow / 10-Year Facility Flow / 100-Year Facility Flow
- (Flows in CFS)
- Study Area Limit

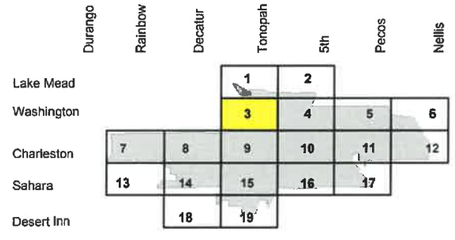
PHOTO DATE: SPRING 2004

FIGURE E-3



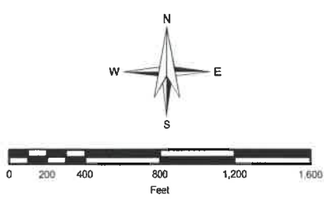

## EXISTING DRAINAGE CONDITIONS

PBS&J
2270 Corporate Circle, Suite 100
Henderson, NV 89074
(702) 263-7275
Fax: (702) 263-7200



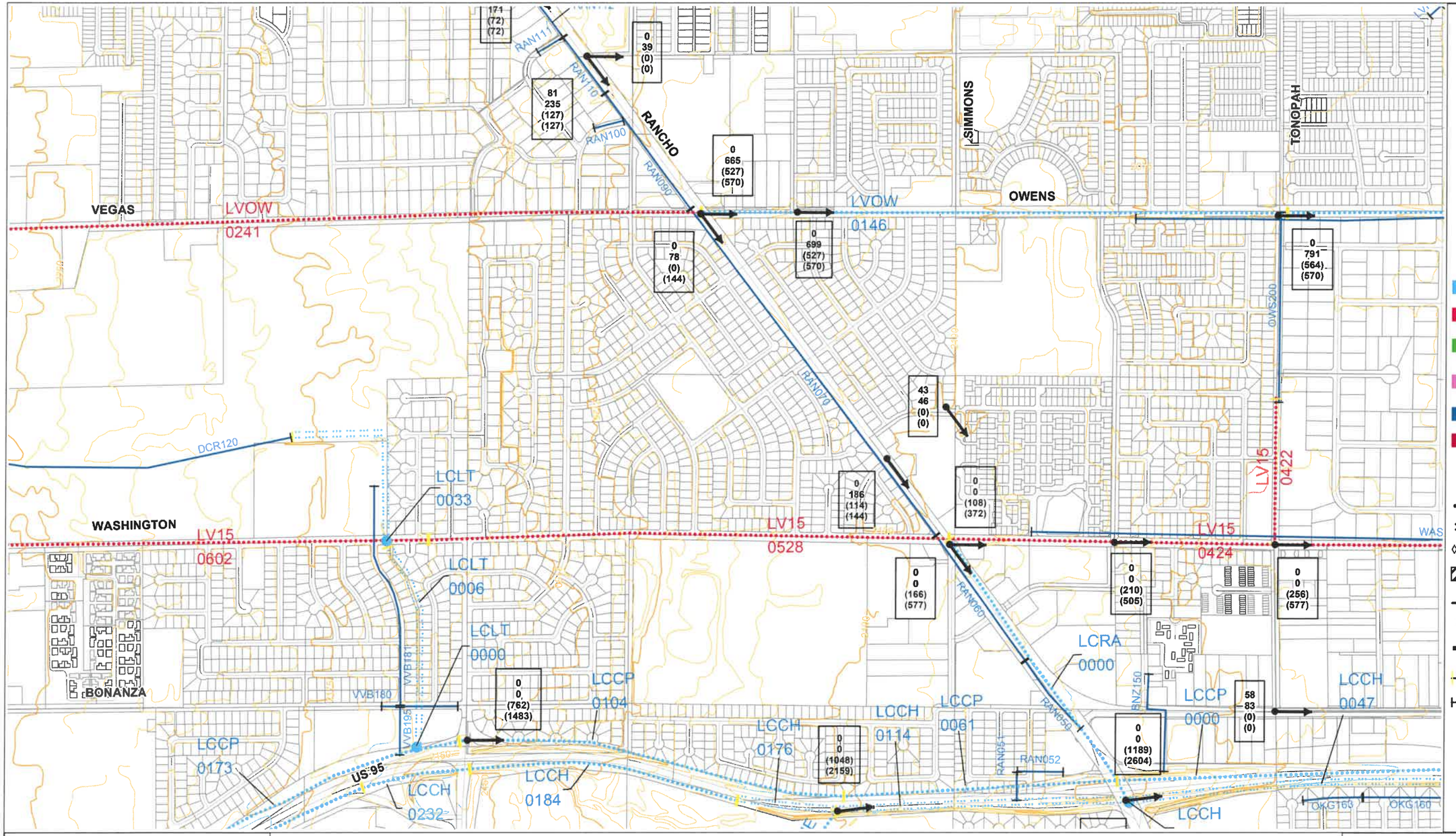

NOTE:
Existing conditions are based on future Curve Number values with only existing local and CCRFCD facilities in place.

100-Year flows at locations where a 100-Year subbasin concentration point does not exist in the hydrology model were based on an area-weighted ratio of the 100-Year flows from concentration points upstream and downstream of the location. See Volume I for a more detailed explaination.




SCALE: 1 inch = 800 feet

FIGURE 7A




City of Las Vegas

# CENTRAL NEIGHBORHOOD FLOOD CONTROL MASTER PLAN

## LEGEND

- Existing Regional Facility
- Category A Proposed Regional Facility (2002 MPU)
- Category B Proposed Regional Facility (2002 MPU)
- Category A Proposed Regional Facility (2004 CNFCMP)
- Existing Local Facility
- Proposed Local Facility
- Regional Culvert
- Regional Bridge
- Regional Pipeline
- Regional Channel
- Regional Levee
- Regional Detention Basin
- Local Storm Drain
- Local Culvert
- Proposed Local Storm Drain
- Regional ID-Mile Separator
- Local Facility Separator

FIGURE F-3

N
W E
S

0 200 400 800 1,200 1,600
Feet

SCALE: 1 inch = 800 feet

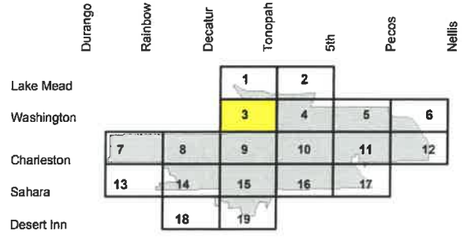
Flow Arrow

250 10-Year Street Flow
500 100-Year Street Flow
(300) 10-Year Facility Flow
(800) 100-Year Facility Flow

(Flows in CFS)

NOTE:
Ultimate drainage conditions are based on future Curve Number values with all flood control facilities in place.

100-Year flows at locations where a 100-Year subbasin concentration point does not exist in the hydrology model were based on an area-weighted ratio of the 100-Year flows from concentration points upstream and downstream of the location. See Volume I for a more detailed explaination.




FUTURE DRAINAGE CONDITIONS

PBS&J
2270 Corporate Circle, Suite 100
Henderson, NV 89074
(702) 263-7275
Fax: (702) 263-7200

NOTES

This map is for assessment use only and does NOT represent a survey.

No liability is assumed for the accuracy of the data deliniated herein. Information on roads and other non-assessed parcels may be obtained from the Road Document Listing in the Assessor's Office.

This map is compiled from official records, including surveys and deeds, but only contains the information required for assessment. See the recorded documents for more detailed legal information.

USE THIS SCALE(FEET) WHEN MAP REDUCED FROM 11X17 ORIGINAL

0 100 200 400 600 800

MAP LEGEND

- PARCEL BOUNDARY
- SUB BOUNDARY
- PM/LD BOUNDARY
- ROAD EASEMENT
- MATCH / LEADER LINE
- HISTORIC LOT LINE
- HISTORIC SUB BOUNDARY
- HISTORIC PM/LD BOUNDARY
- SECTION LINE
- CONDOMINIUM UNIT
- AIR SPACE PCL
- RIGHT OF WAY PCL
- SUB-SURFACE PCL

001 ROAD PARCEL NUMBER
001 PARCEL NUMER
1.00 ACREAGE
202 PARCEL SUB/SEQ NUMBER
PB 24-45 PLAT RECORDING NUMBER
5 BLOCK NUMBER
5 LOT NUMBER
GL5 GOV. LOT NUMBER

# ASSESSOR'S PARCELS - CLARK COUNTY, NV.
## Briana Johnson - Assessor

BOOK T20S R61E

| | | |
|---|---|---|
| 125 | 124 | 123 |
| 138 | 139 | 140 |
| 163 | 162 | 161 |

Scale: 1" = 200'

SEC. 28

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

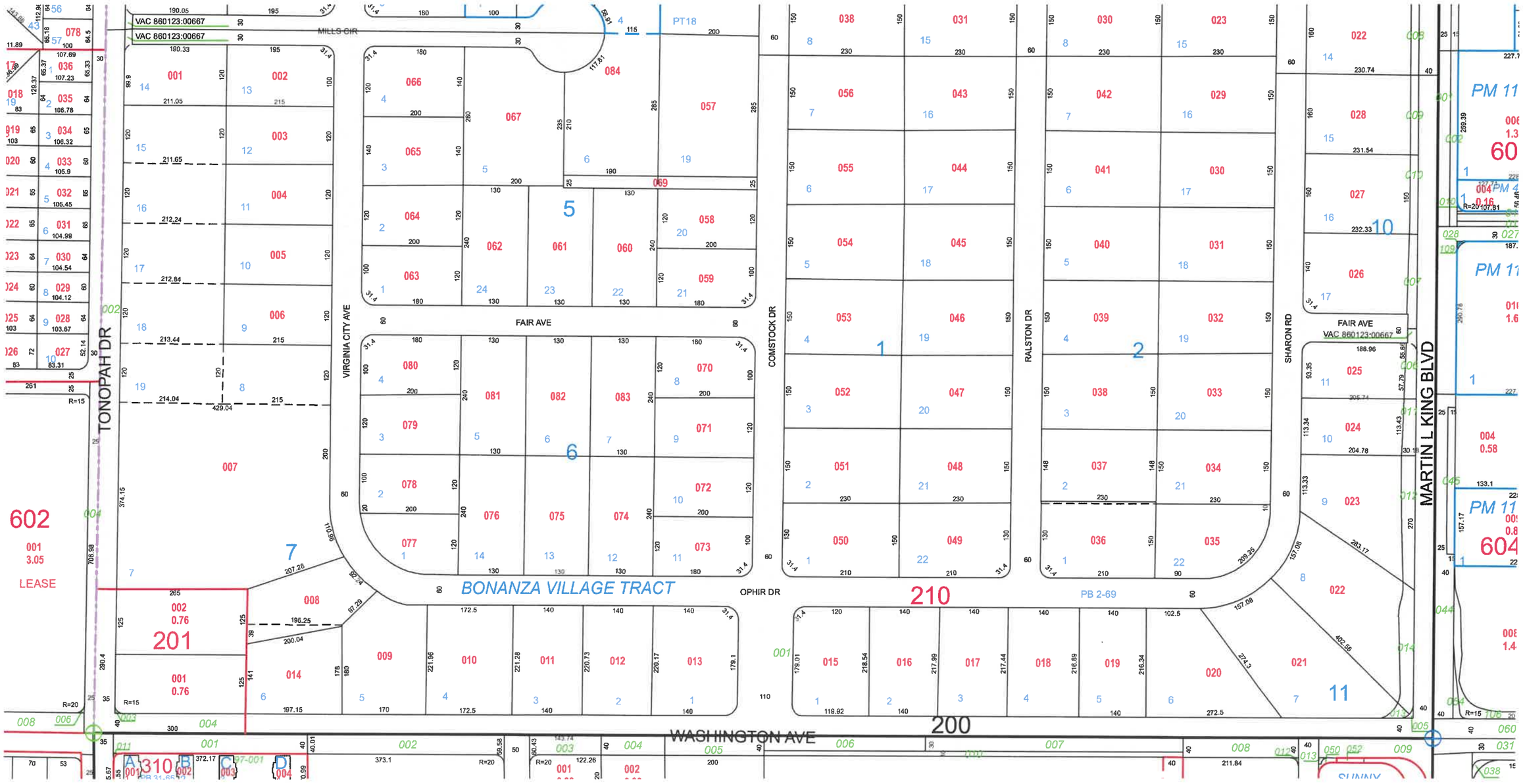
Rev: 1/8/2019

MAP S 2 NW 4

| | | | |
|---|---|---|---|
| 8 | 4 | 8 | 4 |
| 5 | 1 | 5 | 1 |
| 6 | 2 | 6 | 2 |
| 7 | 3 | 7 | 3 |
| 8 | 4 | 8 | 4 |
| 5 | 1 | 5 | 1 |

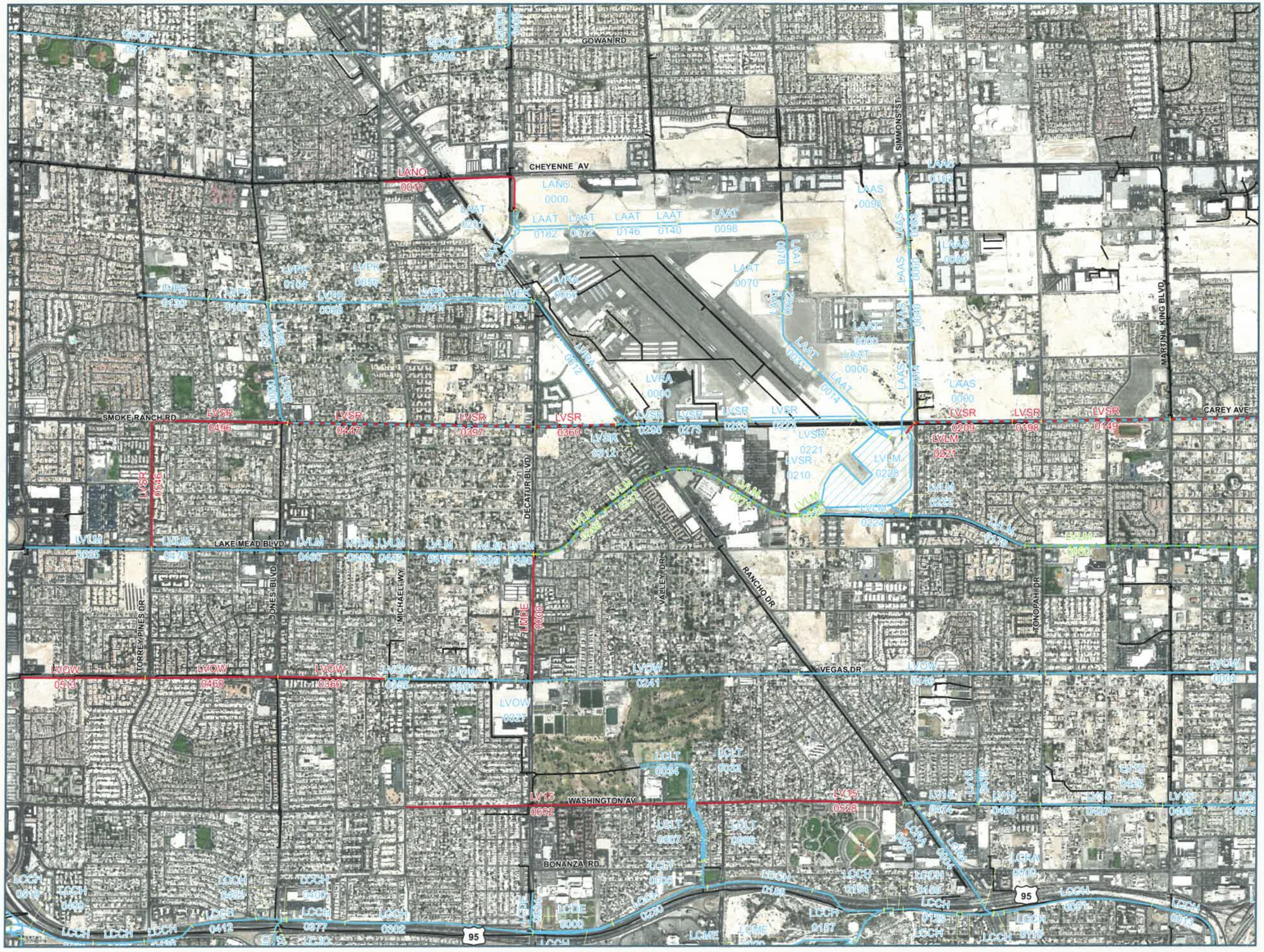
139-28-2

CLARK COUNTY NEVADA




TAX DIST 200

FIGURE 2




REGIONAL FLOOD CONTROL DISTRICT

2018
LAS VEGAS VALLEY
FLOOD CONTROL
MASTER PLAN UPDATE

**FIGURE F-24**

**FLOOD CONTROL FACILITIES**

**LEGEND**

- Ultimate Development Boundary
- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Local Existing Facilities
- Detention Basin
- Culvert or Bridge Crossing
- Stormdrain
- Lined Channel
- Unlined Channel
- Levee/Dike
- Natural Wash/Floodway
- ID-Mile Separator

**Remove & Replace/Parallel Facilities**

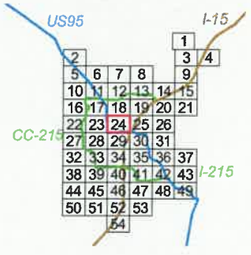
| Category A | Category B |
|---|---|
| Channel | Channel |
| Stormdrain | Stormdrain |
| Crossing | Crossing |

N

0 500 1,000 2,000 3,000
Feet

Scale: 1 inch = 2,000 feet

AerialSource:Esri World Imagery 2017




ATKINS
Member of the SNC-Lavalin Group

Louis Berger

FIGURE 5A

| ID / Mile | Status | Facility Description | Length (ft.) | Flow (cfs) | HEC-1 Node | HEC-1 Model | Tributary Area (sq.mi.) | Channel Slope (%) ** |
|---|---|---|---|---|---|---|---|---|
| **GOOF** | | **GOWAN OUTFALL FACILITIES** | | | | | | |
| 0485 | E | 90" RCP | 1080 | 630 | DGOW2A | GOW3B | 1.37 | 0.47 |
| 0486 | E | 8' X 5' RCB | 3200 | 630 | DGOW2A | GOW3B | 1.37 | 0.60 |
| 0511 | E | 8' X 5' RCB | 6390 | 740 | CPT69-C | GOW3B | 1.08 | 0.59 |
| **LAAS** | | **NORTH LAS VEGAS AIR TERMINAL - SIMMONS** | | | | | | |
| 0090 | E | 14' X 6' RCB | 580 | 728 | CR2-CA | NW3 | 2.57 | 0.50 |
| 0014 | E | 9' X 6' RCB | 1489 | 728 | CR2-CA | NW3 | 2.57 | 1.44 |
| 0040 | E | 8' X 6' RCB | 1111 | 728 | CR2-CA | NW3 | 2.57 | 1.74 |
| 0060 | E | 10' X 6' RCB | 864 | 728 | CR2-CA | NW3 | 2.57 | 0.60 |
| 0080 | E | 66" RCP | 157 | 294 | R-C | NW3 | 0.27 | 0.50 |
| 0083 | E | 60" RCP | 627 | 294 | R-C | NW3 | 0.27 | 1.42 |
| 0095 | E | 54" RCP | 373 | 294 | R-C | NW3 | 0.27 | 1.44 |
| 0103 | E | 48" RCP | 400 | 294 | R-C | NW3 | 0.27 | 1.75 |
| **LAAT** | | **NORTH LAS VEGAS AIR TERMINAL** | | | | | | |
| 0000 | E | 3: 8' X 5' RCBC | 650 | 1364 | CB3-1 | NW3 | 4.17 | 0.50 |
| 0006 | E | CONC CHNL 20'W 8'D 1.5:1 SS | 380 | 1364 | CB3-1 | NW3 | 4.17 | 0.50 |
| 0014 | E | 10' X 6' RCB | 934 | 1364 | CB3-1 | NW3 | 4.17 | 1.84 |
| 0031 | E | 10' X 6' RCB | 1618 | 1105 | CB3-2 | NW3 | 3.87 | 1.05 |
| 0062 | E | 12' X 8' RCB | 511 | 1105 | CB3-2 | NW3 | 3.87 | 0.50 |
| 0070 | E | 12' X 6' RCB | 376 | 1105 | CB3-2 | NW3 | 3.87 | 0.56 |
| 0078 | E | 10' X 6' RCB | 1055 | 1105 | CB3-2 | NW3 | 3.87 | 0.58 |
| 0098 | E | 10' X 4' RCB | 2207 | 996 | CCA1-C | NW3 | 2.98 | 0.60 |
| 0140 | E | CONC CHNL 6'W 4'D 1.5:1 SS | 338 | 696 | CCA1-C | NW3 | 2.98 | 0.64 |
| 0146 | E | CONC CHNL 6'W 3'D 1.5:1 SS | 1388 | 696 | CCA1-C | NW3 | 2.98 | 0.68 |
| 0172 | E | 76" X 48" HERCP | 536 | 494 | CA1-C | NW3 | 2.77 | 0.75 |
| 0182 | E | CONC CHNL 6'W 3'D 1.5:1 SS | 997 | 494 | CA1-C | NW3 | 2.77 | 0.83 |
| 0201 | E | CONC CHNL 6'W 3'D 1.5:1 SS | 184 | 494 | CA1-C | NW3 | 2.77 | 0.37 |
| 0204 | E | 48" RCP | 425 | 494 | CA1-C | NW3 | 2.77 | 0.37 |
| **LANO** | | **NORTH LAS VEGAS AIR TERMINAL NORTH** | | | | | | |
| 0000 | E | CONC CHNL 0'W 3'D 1.5:1 SS | 470 | 494 | CA1-C | NW3 | 2.77 | 0.30 |
| 0010 | P | 6' X 4' RCB | 3375 | 211 | DA1-C | NW3 | 2.46 | 1.13 |
| **LCCH** | | **LAS VEGAS CREEK CHANNEL** | | | | | | |
| 0013 | E | 2: 12' X 6' RCB | 2035 | 3050 | CLC20-C | MEADOWS4 | 9.60 | 0.82 |
| 0051 | E | 2: 14' X 7' RCB | 3113 | 3050 | CLC20-C | MEADOWS4 | 9.60 | 0.60 |
| 0110 | E | TRANSITION STRUCTURE | 220 | 3001 | CCLC16-C | MEADOWS4 | 9.50 | |
| 0114 | E | 2: 14' X 7' RCB | 670 | 2386 | CRMEDET | MEADOWS4 | 8.19 | 0.80 |
| 0127 | E | TRANSITION STRUCTURE | 110 | 2386 | CRMEDET | MEADOWS4 | 8.19 | |
| 0129 | E | 2: 14' X 7' RCB | 1130 | 2386 | CRMEDET | MEADOWS4 | 8.19 | 0.50 |
| 0150 | E | 2: 13' X 7' RCB | 200 | 2386 | CRMEDET | MEADOWS4 | 8.19 | 0.95 |
| 0154 | E | TRANSITION STRUCTURE | 190 | 2386 | CRMEDET | MEADOWS4 | 8.19 | |
| 0157 | E | 2: 12' X 6' RCB | 1650 | 1700 | CCLC14-C | SW3 | 2.93 | 1.06 |
| 0168 | E | 2: 12' X 6' RCB | 2225 | 1700 | CCLC14-C | SW3 | 2.93 | 1.36 |
| 0230 | E | 12' X 6' RCB | 2140 | 1450 | CLC14-C | SW3 | 2.53 | 1.74 |
| 0270 | E | 12' X 6' RCB | 1705 | 814 | CCWA02-C | SW3 | 1.84 | 0.54 |
| 0302 | E | 8' X 6' RCB | 3940 | 814 | CCWA02-C | SW3 | 1.84 | 2.49 |
| 0377 | E | 10' X 7' RCB | 1226 | 814 | CCWA02-C | SW3 | 1.84 | 0.74 |
| 0400 | E | TRANSITION STRUCTURE | 110 | 458 | CWA02-C | SW3 | 1.47 | 0.49 |
| 0402 | E | 8' X 6' RCB @ JONES | 535 | 458 | CWA02-C | SW3 | 1.47 | 0.49 |
| 0412 | E | 60" RCP | 1370 | 458 | CWA02-C | SW3 | 1.47 | 1.08 |
| 0438 | E | 60" RCP | 1090 | 171 | CLC01-C | SW3 | 1.20 | 1.60 |
| 0458 | E | 60" RCP | 1060 | 171 | CLC01-C | SW3 | 1.20 | 1.60 |
| 0478 | E | 60" RCP | 1110 | 171 | CLC01-C | SW3 | 1.20 | 0.55 |
| 0499 | E | 42" RCP OUTLET | 660 | 87 | RAINBWDB | SW3 | 1.11 | 1.88 |
| 0513 | E | 102 AC-FT RAINBOW DETENTION BASIN | | 1027 | RAINBWIN | SW3 | 1.11 | |
| **LCDE** | | **LAS VEGAS CREEK - DECATUR** | | | | | | |
| 0000 | E | 8' X 5' RCB | 1800 | 430 | LC11-C | SW3 | 0.38 | 1.26 |
| 0034 | E | 72" RCP | 700 | 430 | LC11-C | SW3 | 0.38 | 0.50 |
| **LCJO** | | **LAS VEGAS CREEK - JONES** | | | | | | |
| 0000 | E | 6' X 6' RCB | 360 | 381 | AL01B-C | SW3 | 0.37 | 0.50 |
| 0007 | E | 6' X 5' RCB | 675 | 381 | AL01B-C | SW3 | 0.37 | 0.62 |
| LCLO | | LAS VEGAS CREEK - LORENZI | | | | | | |
| 0000 | E | 7' X 6' RCB | 445 | 285 | DAL00A | SW3 | 0.41 | 3.37 |

| ID / Mile | Status | Facility Description | Length (ft.) | Flow (cfs) | HEC-1 Node | HEC-1 Model | Tributary Area (sq.mi.) | Channel Slope (%) ** |
|---|---|---|---|---|---|---|---|---|
| **LCLO** | | **LAS VEGAS CREEK - LORENZI** | | | | | | |
| 0008 | E | 7' X 6' RCB | 2983 | 285 | DAL00A | SW3 | 0.41 | 0.40 |
| **LCLT** | | **LAS VEGAS CREEK - LATERAL** | | | | | | |
| 0000 | E | 6' X 6' RCB | 620 | 250 | WA10D | SW3 | 0.40 | 0.59 |
| 0006 | E | CONC CHNL 10'W 4'D 0:1 SS | 1230 | 125^ | WA10D^ | SW3 | 0.40 | 0.62 |
| 0007 | E | 23" x 14" HERCP | 1230 | 125^ | WA10D^ | SW3 | 0.40 | 0.62 |
| 0033 | E | 10' X 4' RCBC @ WASHINGTON | 96 | 372 | WA10-C | SW3 | 0.40 | 0.50 |
| 0034 | E | GRASS CHNL 12'W 5'D 1:1 SS | 1750 | 372 | WA10-C | SW3 | 0.40 | 0.20 |
| **LCME** | | **LAS VEGAS CREEK - MEADOWS** | | | | | | |
| 0000 | E | 14' X 6' RCB | 895 | 1484 | MEADOWDB | SW3SC | 5.67 | 0.72 |
| 0016 | E | STILLING BASIN | 140 | 1484 | MEADOWDB | SW3SC | 5.67 | 0.21 |
| 0017 | E | 3,300 CFS SPILLWAY (REPLACE W/ LCME0018) | | 3300 | MEADOWDB | SW3SC | 5.67 | |
| 0018 | P | MODIFY SPILLWAY, RAISE HEIGHT BY 1' (REPLACES LCME0017) | | 3300 | MEADOWDB | SW3SC | 5.67 | |
| 0019 | E | 1: 11' X 5' RCB AND 1: 11.5' X 5' RCB | 110 | 1484 | MEADOWDB | SW3SC | 5.67 | 0.81 |
| 0020 | E | 213 AC-FT MEADOWS DETENTION BASIN | | 4909 | MEADOWIN | SW3SC | 7.55 | |
| **LCRA** | | **LAS VEGAS CREEK - RANCHO** | | | | | | |
| 0000 | E | 12' X 6' RCB | 360 | 931 | CLC16-C | SW3 | 1.71 | 0.60 |
| 0004 | E | 12' X 6' RCB | 2367 | 931 | CLC16-C | SW3 | 1.71 | 0.77 |
| 0050 | E | 8' X 6' RCB | 355 | 894 | WA13D | SW3 | 1.39 | 0.50 |
| **LMDE** | | **LAKE MEAD BOULEVARD - DECATUR BRANCH** | | | | | | |
| 0000 | P | 10' X 5' RCB | 2640 | 673 | DCVG04-C | NW3 | 1.25 | 0.90 |
| **LV15** | | **FREEWAY CHANNEL** | | | | | | |
| 0372 | E | 9' X 6' RCB | 1970 | 1152 | CWA20-C | NW3 | 4.52 | 0.66 |
| 0409 | E | 7' X 6' RCB | 815 | 841 | CVG07 | NW3 | 4.09 | 0.91 |
| 0424 | E | 10' X 5' RCB | 130 | 841 | CVG07 | NW3 | 4.09 | 0.40 |
| 0427 | E | 9' X 6' RCB | 2411 | 841 | CVG07 | NW3 | 4.09 | 0.60 |
| 0460 | E | 6' X 5' RCB | 1242 | 253 | CCWA13-C | NW3 | 3.31 | 1.50 |
| 0472 | E | 60" RCP | 713 | 410 | WA15A-C | NW3 | 0.43 | 0.30 |
| 0474 | E | 5' X 5' RCB | 1625 | 253 | CCWA13-C | NW3 | 3.31 | 1.00 |
| 0528 | P | 8' X 8' RCB | 4420 | 959 | CWA13-C | SW3 | 1.39 | 1.19 |
| 0602 | P | 2: 66" RCP | 5980 | 551 | CWA09-C | SW3 | 0.63 | 1.59 |
| **LVLM** | | **LAS VEGAS WASH - LAKE MEAD** | | | | | | |
| 0059 | E | 72" RCP (REPLACE W/ LVLM0060) | 5952 | 1159 | CLM20-C | NW3SC | 1.36 | 0.66 |
| 0060 | P0 | 12' X 7' RCB (REPLACES LVLM0059) | 5952 | 1159 | CLM20-C | NW3SC | 1.36 | 0.66 |
| 0170 | E | 78" RCP | 2421 | 454 | CLM16A-C | NW5 | 12.15 | 1.17 |
| 0221 | P | 48" RCP OUTLET | 270 | 195 | DR2 | NW4 | 11.77 | |
| 0222 | E | 48" RCP OUTLET | 500 | 368 | DCAREY | NW4 | 11.77 | |
| 0224 | E | 36" RCP | 2429 | | | | | 0.53 |
| 0225 | E | 90" RCP (REPLACE W/ LVLM0226) | 641 | 2077 | CLM10-C | NW3 | 3.01 | 1.35 |
| 0226 | P0 | 2: 10' X 9' RCB (REPLACES LVLM0225) | 641 | 2077 | CLM10-C | NW3 | 3.01 | 0.50 |
| 0227 | E | 10,000 CFS PMF SPILLWAY | | 10000 | CARYLMDB | NW4 | 11.77 | |
| 0228 | E | 607 AC-FT CAREY-LAKE MEAD DETENTION BASIN | | 5499 | CARYLMIN | NW4 | 11.78 | |
| 0270 | E | 90" RCP (REPLACE W/ LVLM0271) | 3473 | 2077 | CLM10-C | NW3 | 3.01 | 1.35 |
| 0271 | P0 | 12' X 8' RCB (REPLACES LVLM0270) | 3473 | 2077 | CLM10-C | NW3 | 3.01 | 1.35 |
| 0336 | E | 84" RCP (REPLACE W/ LVLM0337) | 1050 | 1769 | CLM06-C | NW3 | 2.60 | 1.16 |
| 0337 | P0 | 12' X 8' RCB (REPLACES LVLM0336) | 1050 | 1769 | CLM06-C | NW3 | 2.60 | 1.16 |
| 0355 | E | 90" RCP (REPLACE W/ LVLM0356) | 1840 | 1769 | CLM06-C | NW3 | 2.60 | 0.40 |
| 0356 | P0 | 12' X 11' RCB (REPLACES LVLM0355) | 1840 | 1769 | CLM06-C | NW3 | 2.60 | 0.40 |
| 0388 | E | 84" RCP | 520 | 913 | CLM05-C | NW3 | 1.00 | 1.40 |
| 0399 | E | 78" RCP | 803 | 913 | CLM05-C | NW3 | 1.00 | 1.07 |
| 0416 | E | 72" RCP | 1320 | 913 | CLM05-C | NW3 | 1.00 | 1.00 |
| 0442 | E | 60" RCP | 725 | 591 | CLM03-C | NW3 | 0.63 | 1.28 |
| 0453 | E | 54" RCP | 589 | 591 | CLM03-C | NW3 | 0.63 | 2.37 |
| 0460 | E | 54" RCP | 1464 | 591 | CLM03-C | NW3 | 0.63 | 2.05 |
| 0475 | E | 48" RCP | 2632 | 242 | LM02-C | NW3 | 0.29 | 1.24 |
| 0525 | E | 48" RCP | 2600 | 565 | CLM01-C | NW3 | 0.64 | 1.24 |
| **LVOW** | | **OWENS AVENUE SYSTEM** | | | | | | |
| 0003 | E | 96" RCP | 7500 | 1219 | CLM16B-C | NW3 | 2.43 | 0.70 |
| 0146 | E | 84" RCP | 4800 | 570 | DCVG20-C | NW3 | 2.04 | 0.90 |
| 0241 | E | 72" RCP | 4832 | 416 | CVG20-C | NW3 | 1.56 | 1.65 |
| 0327 | E | 7' X 5' RCB | 360 | 416 | CVG20-C | NW3 | 1.56 | 1.26 |
| 0351 | E | 72" RCP | 2250 | 837 | CVG04-C | NW3 | 1.25 | 1.44 |

| ID / Mile | Status | Facility Description | Length (ft.) | Flow (cfs) | HEC-1 Node | HEC-1 Model | Tributary Area (sq.mi.) | Channel Slope (%) ** |
|---|---|---|---|---|---|---|---|---|
| **LVOW** | | **OWENS AVENUE SYSTEM** | | | | | | |
| 0355 | E | 8' X 5' RCB | 491 | 837 | CVG04-C | NW3 | 1.25 | 0.40 |
| 0360 | P | 8' X 6' RCB | 2300 | 837 | CVG04-C | NW3 | 1.25 | 1.48 |
| 0460 | P | 7' X 6' RCB | 2700 | 615 | CVG03-C | NW3 | 0.95 | 1.48 |
| 0513 | P | 6' X 5' RCB | 2615 | 463 | CVG02-C | NW3 | 0.68 | 1.68 |
| **LVPK** | | **PEAK DRIVE SYSTEM** | | | | | | |
| 0000 | E | CONC CHNL 15'W 6'D 0:1 SS | 606 | 1081 | CPD04B-C | NW3 | 1.59 | 1.22 |
| 0019 | E | CONC CHNL 20'W 5.5'D 0:1 SS | 2190 | 1081 | CPD04B-C | NW3 | 1.59 | 0.57 |
| 0056 | E | 10' X 5' RCB | 103 | 723 | CCY04A-C | NW3 | 1.12 | 0.40 |
| 0058 | E | 9' X 6' RCB | 2542 | 723 | CCY04A-C | NW3 | 1.12 | 0.95 |
| 0104 | E | 10' X 6' RCB | 76 | 723 | CCY04A-C | NW3 | 1.12 | 1.26 |
| 0106 | E | 7' X 5' RCB | 1235 | 723 | CCY04A-C | NW3 | 1.12 | 0.61 |
| 0130 | E | 7' X 5' RCB | 1435 | 383 | CPD01-C | NW3 | 0.67 | 0.61 |
| **LVRA** | | **LAS VEGAS WASH - RANCHO** | | | | | | |
| 0000 | E | 12' X 8' RCB | 612 | 1438 | CCPD04BC | NW3 | 3.77 | 1.56 |
| 0012 | E | 12' X 8' RCB | 2638 | 1438 | CCPD04BC | NW3 | 3.77 | 0.78 |
| 0066 | E | 14' X 5' RCB | 65 | 1438 | CCPD04BC | NW3 | 3.77 | 1.22 |
| **LVSR** | | **LAS VEGAS WASH - SMOKE RANCH** | | | | | | |
| 0070 | E | 66" RCP (REPLACE W/ LVSR0071) | 4118 | 1086 | CS1-C | NW3SC | 1.42 | 0.73 |
| 0071 | P | 10' X 8' RCB (REPLACES LVSR0070) | 4118 | 1086 | CS1-C | NW3SC | 1.42 | 0.73 |
| 0148 | E | 54" RCP (REPLACE W/ LVSR0149) | 2587 | 823 | CS | NW3SC | 0.95 | 0.58 |
| 0149 | P | 11' X 6' RCB (REPLACES LVSR0148) | 2587 | 823 | CS | NW3SC | 0.95 | 0.58 |
| 0197 | E | 30" RCP (REPLACE W/ LVSR0198) | 581 | 368 | CR2-C | NW3SC | 0.38 | 0.86 |
| 0198 | P | 8' X 4' RCB (REPLACES LVSR0197) | 581 | 368 | CR2-C | NW3SC | 0.38 | 0.86 |
| 0208 | E | 54" RCP (REPLACE W/ LVSR0209) | 2060 | 368 | CR2-C | NW3SC | 0.38 | 1.41 |
| 0209 | P | 7' X 4' RCB (REPLACES LVSR0208) | 2060 | 368 | CR2-C | NW3SC | 0.38 | 1.41 |
| 0210 | E | 14' X 8' RCB | 800 | 3092 | CB1-C | NW3 | 6.34 | 1.73 |
| 0221 | E | TRANSITION STRUCTURE | 100 | 3092 | CB1-C | NW3 | 6.34 | 7.08 |
| 0223 | E | CONC CHNL 14'W 8'D 1.5:1 SS | 2150 | 3092 | CB1-C | NW3 | 6.34 | 0.96 |
| 0263 | E | 14' X 8' RCB | 707 | 3092 | CB1-C | NW3 | 6.34 | 0.63 |
| 0273 | E | 11' X 11' RCB | 1140 | 3092 | CB1-C | NW3 | 6.34 | 0.92 |
| 0295 | E | 11' X 11' RCB | 510 | 2868 | CCSR05B | NW3 | 6.06 | 2.85 |
| 0312 | E | 8' X 8' RCB | 460 | 1652 | CSR05B | NW3 | 2.30 | 1.63 |
| 0359 | E | 66" RCP (REPLACE W/ LVSR0360) | 1690 | 1652 | CSR05B | NW3 | 2.30 | 0.67 |
| 0360 | P | 10' X 10' RCB (REPLACES LVSR0359) | 1690 | 1652 | CSR05B | NW3 | 2.30 | 0.75 |
| 0396 | E | 60" RCP (REPLACE W/ LVSR0397) | 2640 | 1483 | CSR05D | NW3 | 1.94 | 1.14 |
| 0397 | P | 10' X 9' RCB (REPLACES LVSR0396) | 2640 | 1483 | CSR05D | NW3 | 1.94 | 0.87 |
| 0446 | E | 54" RCP (REPLACE W/ LVSR0447) | 2530 | 1483 | CSR05D | NW3 | 1.94 | 1.14 |
| 0447 | P | 10' X 8' RCB (REPLACES LVSR0446) | 2530 | 1483 | CSR05D | NW3 | 1.94 | 1.25 |
| 0496 | P | 10' X 7' RCB | 2855 | 1245 | CSR02E | NW3 | 1.64 | 1.27 |
| 0500 | E | 60" RCP | 1290 | | | | | 1.97 |
| 0525 | E | 54" RCP | 1340 | | | | | 0.30 |
| 0546 | P | 6' X 5' RCB | 2640 | 781 | CSR00A | NW3 | 1.01 | 0.57 |

**The HEC-1 node shown identifies the controlling concentration point for the associated facility and is located upstream of this facility due to decreasing peak flow with increasing tributary area caused by storm distribution transitions, depth area reduction factors, or attenuation of flow from routing.*

***As-built or design slopes were used when available. All other slopes are based on existing topography. The user should verify the facility slope listed prior to performing any facility specific analysis.*

*^ For parallel facilities, the existing facility flow equals its normal depth capacity, and the proposed parallel facility flow equals the remaining flow (i.e. HEC-1 Node flow = existing facility normal depth capacity + proposed parallel facility flow).*

REGIONAL FLOOD CONTROL DISTRICT

**2018 LAS VEGAS VALLEY FLOOD CONTROL MASTER PLAN UPDATE**

**FACILITY INVENTORY FIGURE F-24**

**LEGEND**

ID (Facility Identifier) AABB
Parent Stream Name
Stream Name
Mile 0000
Distance Above Confluence with Parent Stream (Miles)
Miles in Hundredths

Existing Facility..... E
Proposed or Modified Facility..... P
Contingency Level
Category A..... P
Category B..... P0

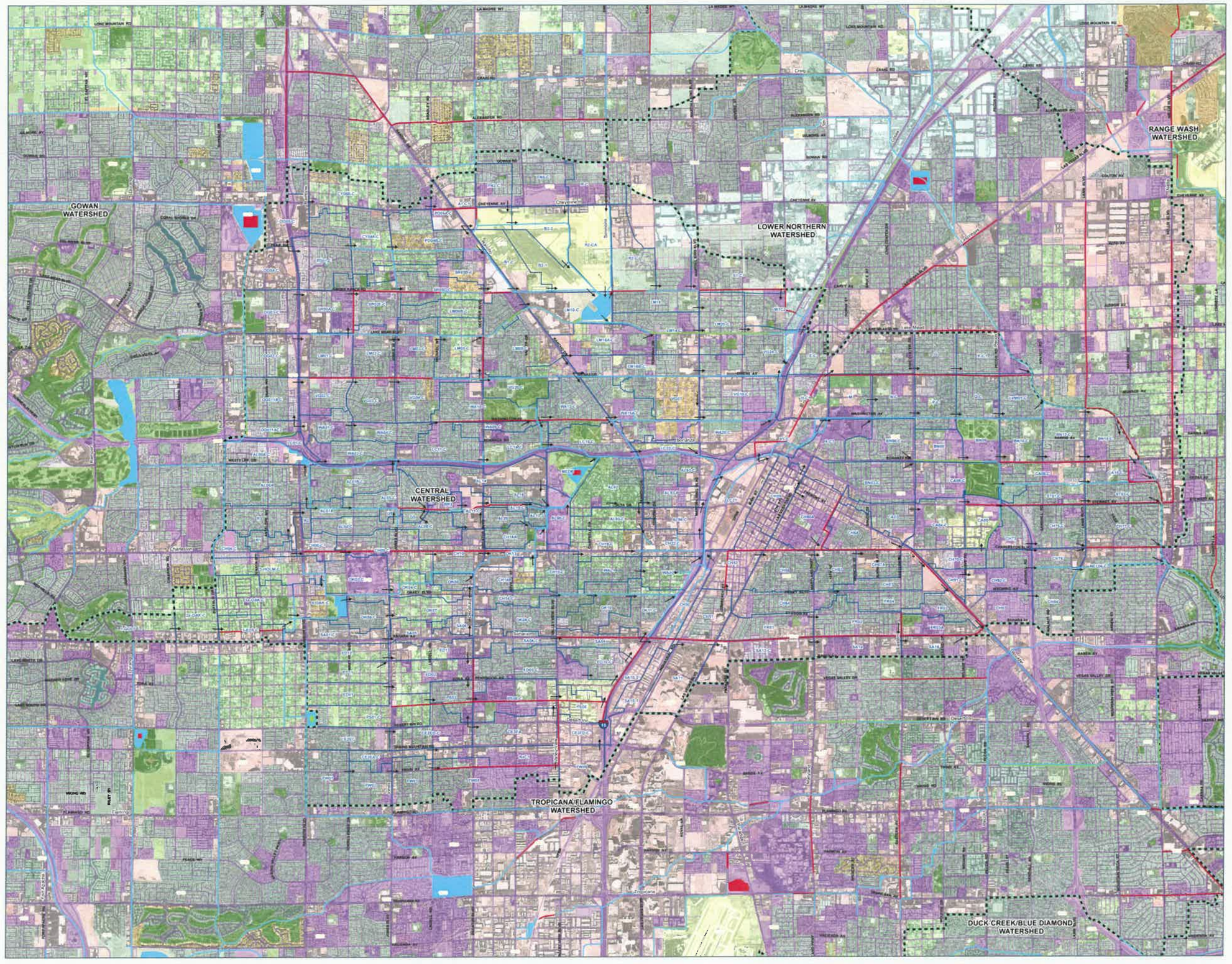
Bottom Width..... W
Depth..... D
Side Slope, H:V..... SS

Construction Features

Cast in Place Concrete Pipe..... CIPCP
Corrugated Metal Arch Pipe Culvert..... CMAP
Corrugated Metal Pipe Culvert..... CMPC
High Density Polyethylene..... HDPE
Horizontal Elliptical Reinforced Concrete Pipe..... HERCP
Reinforced Concrete Arch Pipe..... RCAP
Reinforced Concrete Arch Culvert..... RCAC
Reinforced Concrete Box..... RCB
Reinforced Concrete Box Culvert..... RCBC
Reinforced Concrete Pipe..... RCP
Reinforced Concrete Pipe Culvert..... RCPC
Storm Sewer Pipe..... SSP

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FIGURE 5B




REGIONAL FLOOD CONTROL DISTRICT

# 2018 Las Vegas Valley Master Plan Update

## Figure W-5
## Central Watershed

### Legend

- Flow Arrows
- Concentration Points
- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Ultimate Development Boundary
- Watershed
- BasinID — Subbasins
- Soils
  - 1: Undeveloped Land, Open desert
  - 2: Parks, Golf Courses
  - 3: Rural, 0.5-1 units per acre (uses 1 unit/acre)
  - 4: Low-Density Residential, 1-2 units per acre (uses 2 units/acre)
  - 5: Medium-Density Residential, 2-4 units per acre (uses 3 units/acre)
  - 6: High-Density Residential, 4-8 units per acre (uses 6 units/acre)
  - 7: Public Facility and Residential, 8-12 units/acre
  - 8: Very High-Density Residential, 12 units/acre or more
  - 9: Commercial, Retail, Casino, High Rise Condominiums
  - 10: Light Industrial
  - 11: Heavy Industrial
  - 12: Schools
  - 13: Lakes



1 Range
2 Upper Northern Las Vegas Wash
3 Lower Northern Las Vegas Wash
4 Gowan
5 Central
6 Flamingo/Tropicana
7 Duck Creek/Blue Diamond
8 Pittman
9 C-1
10 Lower Las Vegas Wash
11 Apex

N

Scale: 1 inch = 0.5 mile

0 0.25 0.5 1
Miles

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FIGURE 6

# CLARK COUNTY SCHOOL DISTRICT
# CIVIL IMPROVEMENT PLANS FOR:
# MABEL HOGGARD
# ELEMENTARY SCHOOL REPLACEMENT

APN : 139-28-210-007
950 N. TONOPAH DRIVE
LAS VEGAS, NEVADA 89106

## CONFORMED SET

### SHEET INDEX


| Sheet Number | Sheet Title | Sheet Description |
|---|---|---|
| 1 | C0.01 | COVER SHEET |
| 2 | C0.02 | LEGEND AND ABBREVIATIONS |
| 3 | C0.03 | GENERAL NOTES |
| 4 | C1.00 | MASTER DEMOLITION PLAN |
| 5 | C1.01 | DEMOLITION PLAN 1 |
| 6 | C1.02 | DEMOLITION PLAN 2 |
| 7 | C2.00 | FIRE ACCESS PLAN |
| 8 | C3.00 | OVERALL HORIZONTAL CONTROL |
| 9 | C3.01 | HORIZONTAL CONTROL PLAN 1 |
| 10 | C3.02 | HORIZONTAL CONTROL PLAN 2 |
| 11 | C3.03 | HORIZONTAL CONTROL PLAN 3 |
| 12 | C4.00 | MASTER DRAINAGE PLAN |
| 13 | C4.01 | GRADING PLAN 1 |
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| 15 | C4.03 | GRADING DETAILS 1 |
| 16 | C4.04 | GRADING DETAILS 2 |
| 17 | C4.05 | GRADING DETAILS 3 |
| 18 | C5.00 | MASTER UTILITY PLAN |
| 19 | C5.01 | STORM DRAIN PLAN |
| 20 | C5.02 | UTILITY PLAN 1 |
| 21 | C5.03 | UTILITY PLAN 2 |
| 22 | C5.04 | UTILITY CROSSING DETAILS |
| 23 | C6.01 | PLAN AND PROFILE 1 |
| 24 | C6.02 | PLAN AND PROFILE 2 |
| 25 | C6.03 | PLAN AND PROFILE 3 |
| 26 | C6.04 | PLAN AND PROFILE 4 |
| 27 | C6.05 | STORM DRAIN LATERAL PROFILES |
| 28 | C7.01 | SIGN AND STRIPING PLAN |
| 29 | C8.00 | TYPICAL SECTIONS 1 |
| 30 | C8.01 | TYPICAL SECTIONS 2 |
| 31 | C8.02 | DETAILS 1 |
| 32 | C8.03 | DETAILS 2 |


### UTILITY NOTE

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.

**CALL BEFORE YOU DIG: 1-800-227-2600**
(24 HRS. PRIOR TO COMMENCEMENT OF CONSTRUCTION)

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOTE BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF THE LAS VEGAS VALLEY WATER DISTRICT FACILITIES.

### NOTICE OF INTENT NOTE

NOTE: ALL LAND SURFACE AREA DISTURBANCES OVER 1 ACRE REQUIRE A STORMWATER DISCHARGE PERMIT ISSUED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP). A PHASED CONSTRUCTION UNIT IN A CONTIGUOUS SUBDIVISION IS CONSIDERED UNDER CONSTRUCTION UNTIL ALL STRIPPED SURFACE AREAS HAVE BEEN COVERED BY PAVING, BUILDING CONSTRUCTION OR PLANTING. A STORMWATER DISCHARGE PERMIT APPLICATION AND ASSOCIATED INFORMATION MAY BE DOWNLOADED FROM THE WEB SITE: HTTP://WWW.STATE.NV.US/BWPC/STORM01.HTM PROJECTS THAT DISTURB MORE THAN ONE ACRE OF LAND MUST SUBMIT TO NDEP A "NOTICE OF INTENT" FOR INCLUSION UNDER STORMWATER PERMIT NO. NVR100000 ALONG WITH APPROPRIATE FILLING FEE.

### NPDES PERMIT NOTE

THE CONTRACTOR 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.

### DISCLAIMER NOTE

EXISTING 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 IN THEIR PROPER LOCATION.

### FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X (SHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2170F, DATED 11/16/2011. A ZONE X (SHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE INSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

### BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

| | |
|---|---|
| ZONE: | LAS VEGAS ZONE |
| STANDARD PARALLEL AND GRID ORIGIN: | 36°15'00" N |
| CENTRAL MERIDIAN: | 114°58'00" W |
| FALSE NORTHING: | 656,166.6667 FEET (US) |
| FALSE EASTING: | 328,083.3333 FEET (US) |
| STANDARD PARALLEL SCALE: | 1.0001 |
| LINEAR UNIT: | US SURVEY FOOT (US FT) |

### OWNER /DEVELOPER

**OWNER**

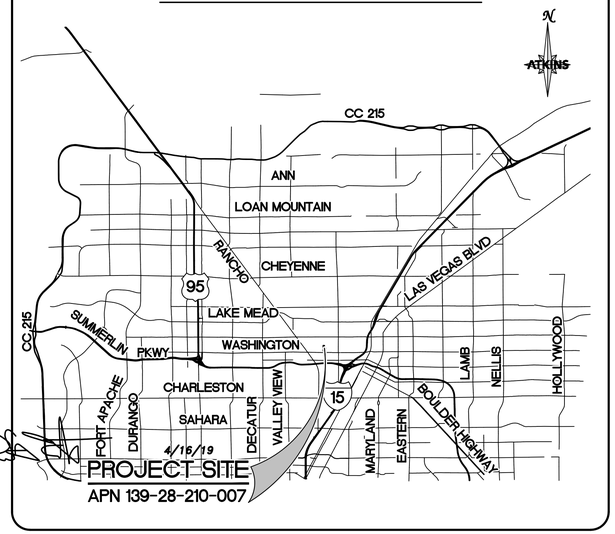
CONTACT: ALAN IMPERIAL
CLARK COUNTY SCHOOL DISTRICT
1180 MILITARY TRIBUTE PLACE
HENDERSON, NV 89070
(702) 799-8710 EXT. 5309

### ENGINEER / CONSULTANT

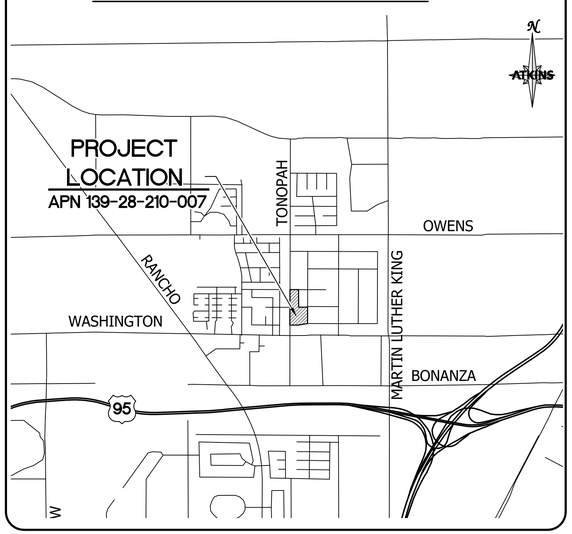
**CIVIL**

CONTACT: TONY ORTIZ, P.E.
ATKINS
2270 CORPORATE CIRCLE SUITE 200
HENDERSON, NEVADA 89074
(702) 551-0336

### LOCATION MAP




### VICINITY MAP




### APPROVALS

ALLEN PAVELKA, P.E. #9029 — DATE
CITY ENGINEER

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND OR/ 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 — DATE

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 ENGINEERING SERVICES
PROJECT NO. 137309 FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW: TOTAL 2500 GPM/ONSITE 2500
SHEETS: _____

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.

SOUTHWEST GAS CORPORATION — DATE

COX COMMUNICATIONS OF LAS VEGAS, INC — DATE

STATE FIRE MARSHALL APPROVAL

SIGNATURE — DATE

SFM PROJECT NO: 20CL376
☐ NO CORRECTIVE ACTION REQUIRED
☐ CORRECTIVE ACTION REQUIRED – SEE ATTACHED

### BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

### LEGAL DESCRIPTION

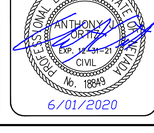
LOTS SEVEN (7), EIGHT (8), FIFTEEN (15), SIXTEEN (16), SEVENTEEN (17), EIGHTEEN (18), AND NINETEEN (19), IN BLOCK SEVEN (7), OF BONANZA VILLAGE TRACT, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 2 OF PLATS, PAGE 69, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.










| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

REVISIONS

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY TRIBUTE LN, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

COVER SHEET

DESIGNED BY: OMO/JLC
DRAWN BY: OMO/JLC
CHECKED BY: T. ORTIZ
HORIZ.: NONE
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 1/32
C0.01

XXX-XXXXX XXX-XXX

X:\Projects\Land Development\SH Architecture\100067217 - Mabel Hoggard ES- Replacement_Sheet\67217-01-TITL-C1.dwg LAYOUT: C0.01 Jun 01, 2020 - 12:25PM

## ABBREVIATIONS

| | |
|---|---|
| @ | AT |
| # | NUMBER |
| AB | ABANDONED |
| AC | ASPHALTIC CONCRETE |
| ACP | ASBESTOS CEMENT PIPE |
| AGG | AGGREGATE |
| AIP | ABANDON IN PLACE |
| ALT | ALTERNATE |
| AP | ANGLE POINT |
| APPROX | APPROXIMATE |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL |
| AV/AR | AIR VACUUM AIR RELIEF VALVE |
| BC | BACK OF CURB |
| BCR | BACK OF CURB RETURN |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLVD | BOULEVARD |
| BM | BENCHMARK |
| BO | BLOW OFF |
| BP | BOTTOM OF PIPE |
| BSW | BACK OF SIDEWALK |
| BVC | BEGIN VERTICAL CURVE |
| BVCE | BEGINNING OF VERTICAL CURVE ELEVATION |
| BVCS | BEGINNING OF VERTICAL CURVE STATION |
| BW | BOTTOM WIDTH |
| C&G | CURB AND GUTTER |
| C–C | CENTER TO CENTER |
| CATV | CABLE TELEVISION |
| CCAUSD | CLARK COUNTY AREA UNIFORM STANDARD DRAWING |
| CCRFCD | CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT |
| CCSD | CLARK COUNTY SCHOOL DISTRICT |
| CCWRD | CLARK COUNTY WATER RECLAMATION DISTRICT |
| CF | CUBIC FOOT |
| CIP | CAST IRON PIPE OR CAST IN PLACE |
| CL | CENTERLINE |
| CLR | CLEAR |
| CLV | CITY OF LAS VEGAS |
| CM | CONSTRUCTION MANAGER |
| CMP | CORRUGATED METAL PIPE |
| CMU | CONCRETE MASONRY UNIT |
| CNDT | CONDUIT |
| CNLV | CITY OF NORTH LAS VEGAS |
| CO | CLEANOUT |
| COH | CITY OF HENDERSON |
| COL | COLUMN |
| CON'T | CONTINUATION |
| CONC | CONCRETE |
| CONST | CONSTRUCT OR CONSTRUCTION |
| COR | CORNER |
| CPP | CORRUGATED PLASTIC PIPE |
| CSP | CORRUGATED STEEL PIPE |
| CU | CUBIC |
| CULV | CULVERT |
| CY | CUBIC YARD |
| D | DEPTH |
| DCSWCS | DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS |
| DET, DTL | DETAIL |
| DEPT | DEPARTMENT |
| DG | DESIGN GRADE |
| DI | DROP INLET |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIP | DUCTILE IRON PIPE |
| DOC | DOCUMENT |
| DOM | DOMESTIC |
| DW | DRIVEWAY |
| DWG | DRAWING |
| E | EAST |
| EA | EACH |
| EB | EASTBOUND |
| EC | END OF CURVE |
| ECR | END CURB RETURN |
| EF | EACH FACE |
| EG | EXISTING GROUND |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION |
| EMBK | EMBANKMENT |
| EOP | EDGE OF PAVEMENT |
| EP | EDGE OF PAVEMENT ALIGNMENT END |
| EQ | EQUAL |
| ESMT | EASEMENT |
| EVC | END VERTICAL CURVE |
| EVCS | END VERTICAL CURVE STATION |
| EW | EACH WAY |
| EX, EXST | EXISTING |
| EXP, JT | EXPANSION JOINT |
| FA | FIRE ALARM |
| FC | FACE OF CURB |
| FF | FINISHED FLOOR ELEVATION |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FO | FIBER OPTIC |
| FT | FOOT OR FEET |
| G | GAS LINE |
| GALV | GALVANIZED |
| GB | GRADE BREAK |
| GL | GRATE LENGTH |
| GM | GAS METER |
| GUT | GUTTER |
| GV | GATE VALVE |
| H | HEIGHT |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| HDWL | HEADWALL |
| HE | HORIZONTAL ELLIPTICAL |
| HGL | HYDRAULIC GRADE LINE |
| HOA | HOMEOWNER'S ASSOCIATION |
| HOR | HORIZONTAL |
| HP | HIGH POINT |
| ID | INSIDE DIAMETER |
| IN | INCH(ES) |
| INT | INTERSECTION |
| INV | INVERT |
| IQAC | INTERAGENCY QUALITY ASSURANCE COMMITTEE |
| IRR | IRRIGATION |
| ISL | ISLAND |
| JB | JUNCTION BOX |
| JCT | JUNCTION |
| JT | JOINT |
| K | VERTICAL CURVE K VALUE |
| L | LENGTH |
| LB | POUND(S) |
| LF | LINEAR FEET |
| LIN | LINEAR |
| LIN # | CCWRD MANHOLE NUMBER |
| LOC | LENGTH OF CURVE |
| LOL | LAYOUT LINE |
| LP | LOW POINT |
| LS | LANDSCAPE |
| LT | LEFT |
| LVC | LENGTH OF VERTICAL CURVE |
| LVVWD | LAS VEGAS VALLEY WATER DISTRICT |
| MAS | MASONRY |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| MON | MONOLITHIC, MONUMENT |
| MOW | MOW CURB |
| MTL | MATERIAL |
| ME | MATCH EXISTING |
| MUE | MUNICIPAL UTILITY EASEMENT |
| N | NORTH |
| NAP | NOT A PART |
| NDOT | NEVADA DEPARTMENT OF TRANSPORTATION |
| NF | NEAR FACE |
| NG | NUMBER OF GRATES, NATURAL GRADE |
| NIC | NOT IN CONTRACT |
| No. | NUMBER |
| NTS | NOT TO SCALE |
| NVE | NV ENERGY |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OG | OPEN GRADE |
| OH | OVERHEAD |
| OHP | OVERHEAD POWER |
| OS | OFFSET |
| P | POWER |
| PB | PULL BOX |
| PBS | PLANTMIX BITUMINOUS SURFACE |
| PC | POINT OF CURVATURE |
| PCC | PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE |
| PE | POLYETHYLENE |
| PG | PROPOSED GRADE |
| PGL | PROFILE GRADE LINE |
| PH | POT HOLE |
| PI | POINT OF INTERSECTION |
| PIP | PROTECT IN PLACE |
| PL | PROPERTY LINE |
| PLCS | PLACES |
| PMF | PAVEMENT MARKING FILM |
| POC | POINT OF CONNECTION |
| PP | POWER POLE |
| PRC | POINT OF REVERSE CURVATURE |
| PROP | PROPOSED |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT, POINT OF TANGENCY |
| PUE | PUBLIC UTILITY EASEMENT |
| PVC | POLYVINYL CHLORIDE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVMT | PAVEMENT |
| QTY | QUANTITY |
| (R) | RADIAL |
| R/W,ROW | RIGHT OF WAY |
| R | RADIUS |
| RC | REINFORCED CONCRETE |
| RCB | REINFORCED CONCRETE BOX |
| RCC | ROLLER COMPACTED CONCRETE |
| RCP | REINFORCED CONCRETE PIPE |
| RD | ROAD |
| REINF | REINFORCED OR REINFORCEMENT |
| RELOC | RELOCATE |
| REV | REVISION |
| RG | ROUGH GRADE |
| RP | RADIUS POINT |
| RPM | RAISED PAVEMENT MARKER |
| RR | RAILROAD |
| RT | RIGHT |
| SCHED | SCHEDULE |
| SD | STORM DRAIN |
| SDMH | STORM DRAIN MANHOLE |
| SF | SQUARE FOOT/SQUARE FEET |
| SHLD | SHOULDER |
| SHT | SHEET |
| SHP | STEEL HIGH PRESSURE PIPE |
| SMFO | SINGLE MODE FIBER OPTIC |
| SNWA | SOUTHERN NEVADA WATER AUTHORITY |
| SQ | SQUARE |
| SS | SANITARY SEWER OR SIDE SLOPE |
| SSD | SUMMERLIN STANDARD DRAWING |
| SST | STAINLESS STEEL |
| ST | STREET |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| STLT | STREETLIGHT |
| SDHW | STORM DRAIN HEADWALL |
| STRUCT | STRUCTURAL OR STRUCTURE |
| SUM # | CCWRD MANHOLE NUMBER |
| SURV | SURVEY |
| SVZ | SIGHT VISIBILITY ZONE |
| SW | SIDEWALK |
| SY | SQUARE YARD |
| T | TELEPHONE LINE |
| TAN | TANGENT |
| TB | TOP OF BOX |
| TBA | TO BE ADJUSTED |
| TBC | TOP OF BACK OF CURB |
| TBR | TO BE REMOVED |
| TC | TOP OF CURB |
| TCD | TRAFFIC CONTROL DEVICE |
| TDS | TECHNICAL DRAINAGE STUDY |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| TF | TOP OF FOOTING |
| THK | THICK |
| THR | THRUST |
| THW | TOP OF HEADWALL |
| TOF | TOP OF FACE |
| TW/TOW | TOP OF WALL |
| TP | TOP OF PIPE |
| TRANS | TRANSITION |
| TS | TRAFFIC SIGNAL |
| TSI | TRAFFIC SIGNAL INTERCONNECT |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| UDACS | UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS |
| UG | UNDERGROUND |
| UGP | UNDERGROUND POWER |
| UIE | UPPER INVERT ELEVATION |
| UNO | UNLESS NOTED OTHERWISE |
| UPRR | UNION PACIFIC RAILROAD |
| USD | UNIFORM STANDARD DRAWING |
| UTACS | ULTRA THIN ASPHALT CONCRETE SURFACE |
| USTCDE | UTILITY, STREETLIGHT, TRAFFIC CONTROL DEVICE EASEMENT |
| V | VOLT |
| VAR | VARIABLE |
| VC | VERTICAL CURVE |
| VCP | VITRIFIED CLAY PIPE |
| VERT | VERTICAL |
| VG | VALLEY GUTTER |
| W | WEST, WATER |
| W/ | WITH |
| WB | WEST BOUND |
| WL | WATER LINE |
| WM | WATER METER |
| W/O | WITHOUT |
| WPJ | WEAKENED PLANE JOINT |
| WV | WATER VALVE |
| WW | WING WALL |
| YD | YARD(S) |

| | EXISTING | PROPOSED |
|---|---|---|
| DAYLIGHT LINE | | |
| FLOWLINE | | |
| CENTERLINE | | |
| PARCEL LINE | | |
| RIGHT OF WAY | | |
| PAVEMENT STRIPING | | |
| OVERHEAD POWER | —OHP— —OHP— | |
| UNDERGROUND POWER | —UGP— —UGP— | |
| SANITARY SEWER | SS | SS |
| WATER | W | W |
| STORM DRAIN | SD | SD |
| GAS | G | |
| CABLE T.V. | CATV | |
| TELEPHONE | T | |
| STREETLIGHT CONDUIT | STLT | STLT |
| STOP BAR | | |
| CONCRETE ENCASEMENT | | |
| FENCE | | |
| BLOCK WALL | | |
| CMU RETAINING WALL | | |
| SAWCUT PAVEMENT | | |
| CONTOUR | (3000) | 3005 |
| SPOT ELEVATION | x 3011.6 | x 3011.6 |
| CURB AND GUTTER | | |
| EDGE OF PAVEMENT | | |
| EASEMENT | | |
| MATCHLINE | | |
| SIGN | | |
| DOUBLE POST SIGN | | |
| STORM DRAIN MANHOLE | SD | |
| STORM DRAIN STRUCTURE | | |
| DROP INLET | | |
| BEEHIVE INLET | | |
| SEWER MANHOLE | S | S |
| FIRE HYDRANT | | |
| CAP AND BLOWOFF | | |
| GATE VALVE | | |
| REDUCER | | |
| STREETLIGHT | OR | |
| PULLBOX | | |
| SIGNAL POLE | | |
| ELEVATION | (00.0) FG | 00.0 FG |
| SIDEWALK | | |
| BUILDING CANOPY | | |
| BUILDING | | |
| BUILDING FOOTING/ RETAINING WALL | | |
| STACKWALL RETAINING | | |

## NOTE TO CONTRACTOR

*THE CONTRACTOR SHALL CONTACT FAST, 811 (CALL BEFORE YOU DIG), AND CALL BEFORE YOU OVERHEAD 24 HRS. PRIOR TO COMMENCEMENT OF CONSTRUCTION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICE MANAGER DATE
PROJECT NO. 137309 DATE:
LVVWD APPROVED FIRE FLOW 2500 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 AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 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.

PROFESSIONAL ENGINEER – STATE OF NEVADA – ANTHONY J. ALLEN – No. 18943 – EXP. 12-31-21 – CIVIL
6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROAD LAS VEGAS, NV 89014 PHONE: 702-799-8010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

LEGEND AND ABBREVIATIONS

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: C. BATES
HORIZ.: NONE
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 2/32
C0.02

XXX-XXXXX XXX-XXX

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## CITY OF LAS VEGAS GENERAL NOTES

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".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATIONS DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½') ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. 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 THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE ) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, 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. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
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.

*REVISED 06/04/2018*

## LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

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 SITE DISCHARGE 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 TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS 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 ACTIVITIES. REFER 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.

## SOUTHWEST NEVADA - SOUTHWEST GAS CORPORATION

*GENERAL NOTES*

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

ALL CIVIL IMPROVEMENT PLANS MUST INCLUDE SOUTHWEST GAS CORPORATION HIGH PRESSURE NOTES ON THE NOTES SHEET AND ALL SHEETS DEPICTING HIGH PRESSURE NATURAL GAS MAINS AS INDICATED BELOW:

**CAUTION: HIGH PRESSURE GAS!!**

**CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION**

SOUTHWEST GAS CORPORATION DATE

## GRADING NOTES

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: TERRACON, 750 PILOT ROAD SUITE #F, LAS VEGAS, NV 89119, PHONE: 702-597-9393, PROJECT NO. : 64195017, DATED: APRIL 22, 2019.
4. EARTHWORK QUANTITIES (RAW):

   -CUT = 180 CUBIC YARDS
   -FILL = 13,525 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.

## CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

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 ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.6.15
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 SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, § 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 BEFORE COVERING THE LINES. CENTER 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.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. 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 TO VERIFY AVAILABILITY OF 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 NEEDED FOR PROTECTION OF THE STRUCTURES, 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 30,000 PER DAY, 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 PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. 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 § C102.4
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7
17. THE MAXIMUM DISTANCE FROM A 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, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE 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 ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE 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 IFC § 503.2.4
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
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 MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE 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 STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. IFC § 503.1.1
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEADENDS 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 ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED 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. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER 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 BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION

## CITY OF LAS VEGAS GRADING NOTES

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.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

| | | HORIZONTAL | VERTICAL | COMPACTION |
|---|---|---|---|---|
| A. | PAVEMENT AREA SUBGRADE | 0.1'+ | +0.0' TO -0.1' | SEE SOILS REPORT |
| B. | ENGINEERED FILL | 0.5'+ | +0.1' TO -0.1' | SEE SOILS REPORT |

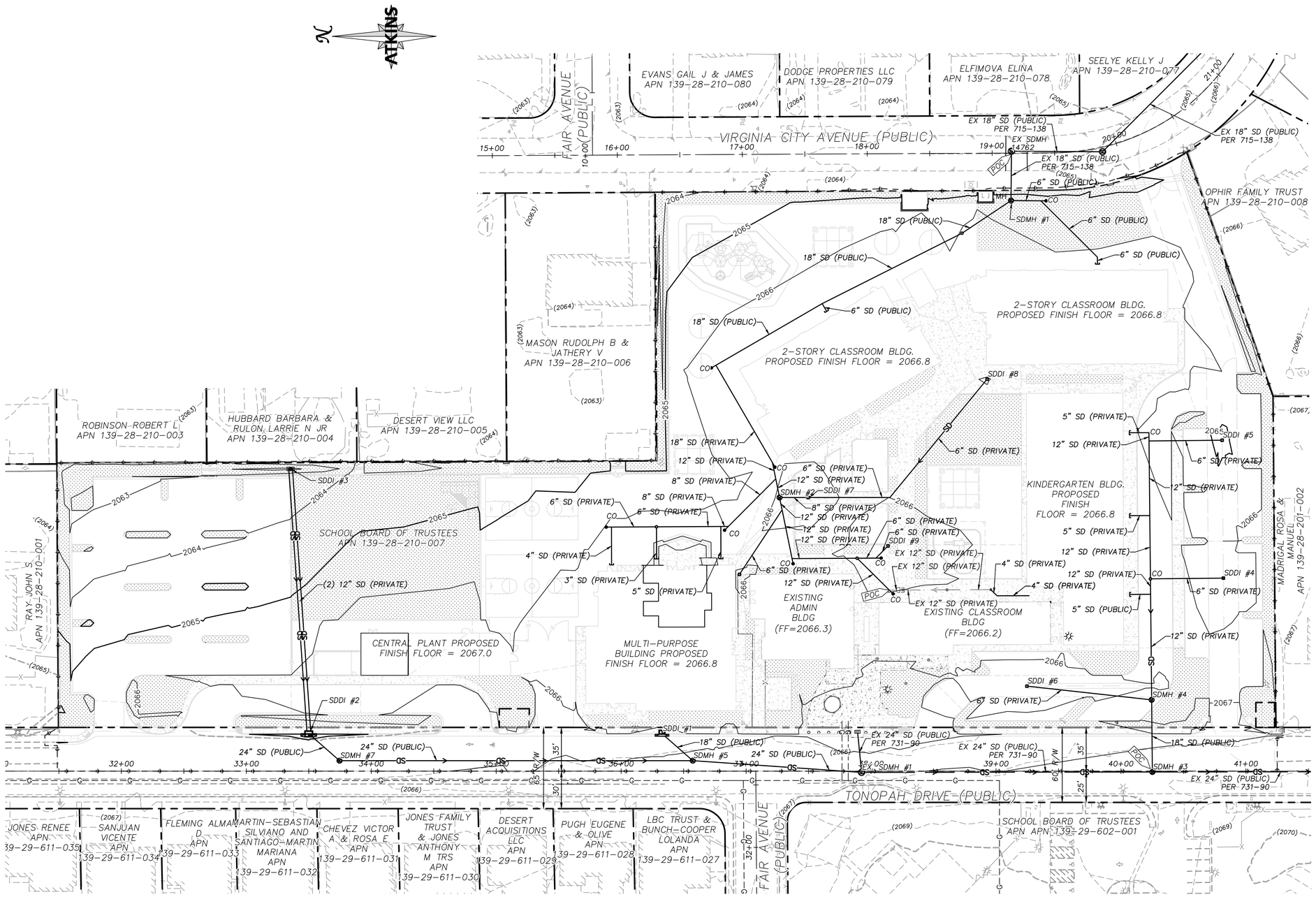
   COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

*REVISED 04/15/10*

## GENERAL NOTES

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 DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 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 UTILITIES OR STRUCTURES NOT SHOWN, OR NOT 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 CLARK COUNTY AREA, NEVADA" AND AS PROVIDED IN THE SPECIFICATIONS.
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 ANY OTHER EXISTING IMPROVEMENTS OUTSIDE OF STREET RIGHT-OF-WAY, EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR THE PROJECT ENGINEER. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, STEPS, SIDEWALKS, DRIVEWAYS, LAWN LIGHTS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE REQUIRED BY THE PROJECT ENGINEER.
7. 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 SOD 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 THE 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 ALL PAVED STREETS.
15. CURB AND GUTTER OF A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT 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




## SUMMARY OF QUANTITIES

| DESCRIPTION | QUANTITY | UNIT |
|---|---|---|
| DRAINAGE | | |
| 6" SDR-35 STORM DRAIN PIPE | | LF |
| 12" SDR-35 STORM DRAIN PIPE | | LF |
| STORM DRAIN AREA DRAIN | | LF |
| STORM DRAIN CLEAN OUT | | LF |
| 4" PERFORATED PIPE | | EA |
| | | EA |
| | | LF |

**MASTER PLAN NOTE**

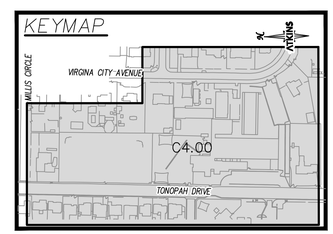
THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. IT IS AN OVERALL REPRESENTATION OF THE UTILITY FOR REVIEW AND COORDINATION WITH OTHER PROJECT DETAILS WITHIN THIS PLAN SET.

## DRAINAGE NOTES

1. SEE SHEETS C4.01 AND C4.02 FOR CONSTRUCTION NOTES AND INFORMATION RELATED TO STORM DRAIN.
2. ALL STORM DRAIN MATERIAL TO BE PVC SDR-35, UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO PROVIDE 6" MINIMUM OF CLEARANCE BETWEEN OUTSIDE OF PIPE TO INSIDE WALL OF STORM DRAIN STRUCTURES.
4. ALL ONSITE STORM DRAINAGE AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY CLARK COUNTY SCHOOL DISTRICT.

**NOTE TO CONTRACTOR**

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




GRAPHIC SCALE
40 0 20 40 80
HORIZONTAL: 1"=40'

## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

## BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig AVOID DIGGING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 OR 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DIG OVERHEAD 1-702-227-2929

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ No. 18849 Exp. 12-31-21 CIVIL
6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1308 MILITARY ROAD DR, HENDERSON, NV 89014 PHONE: 702-799-5700

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

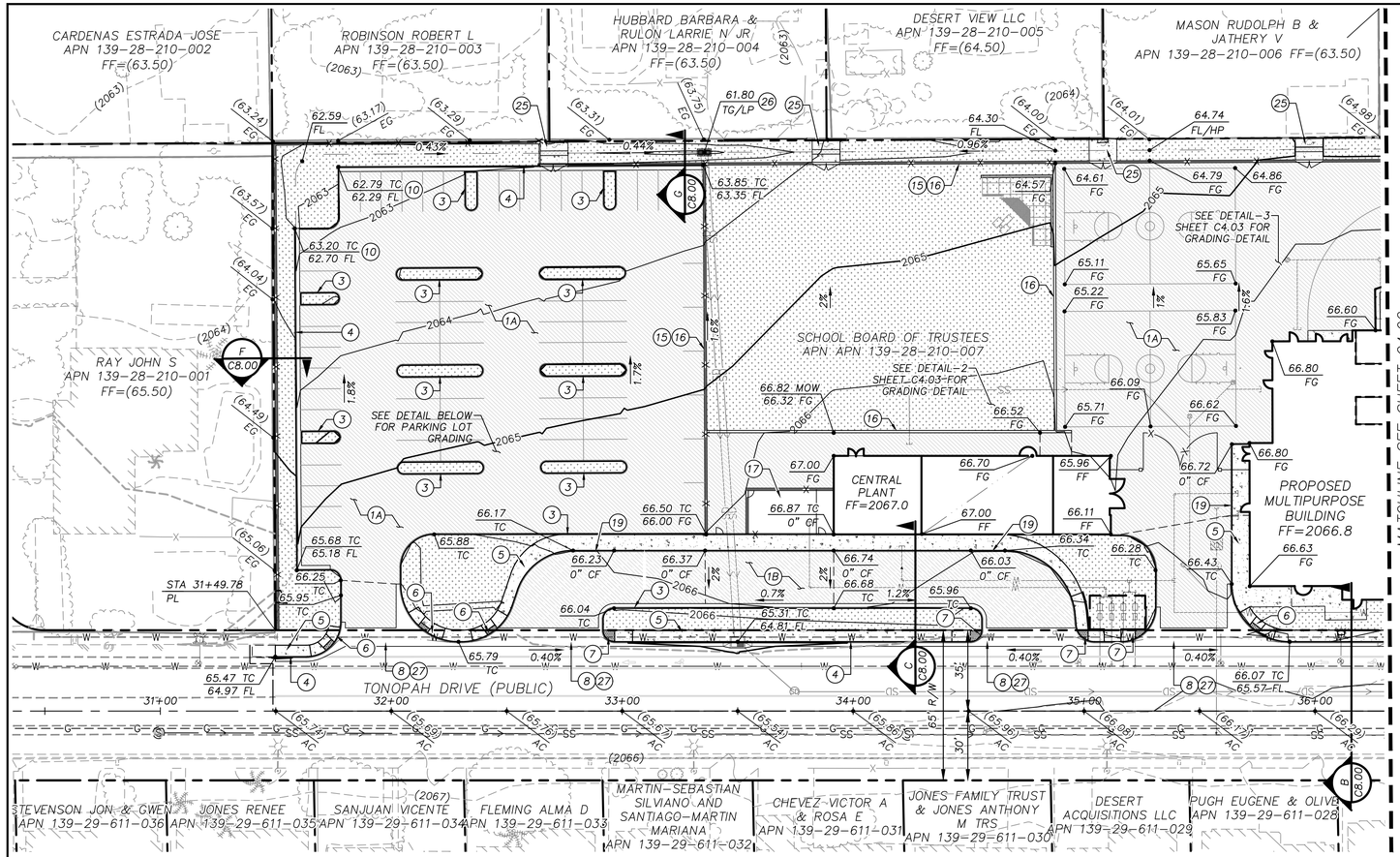
MASTER DRAINAGE PLAN

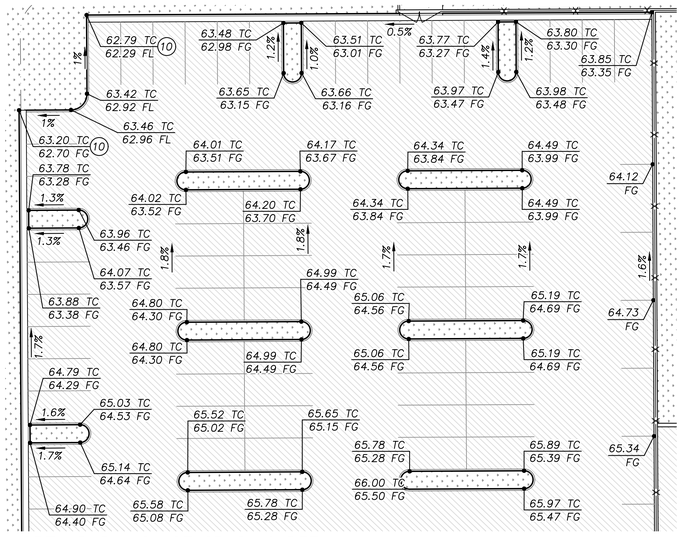
DESIGNED BY: J. CABRERA
DRAWN BY: O. QUASSANI
CHECKED BY: A. ORTIZ
HORIZ.: 1"=40'
VERT.: NONE

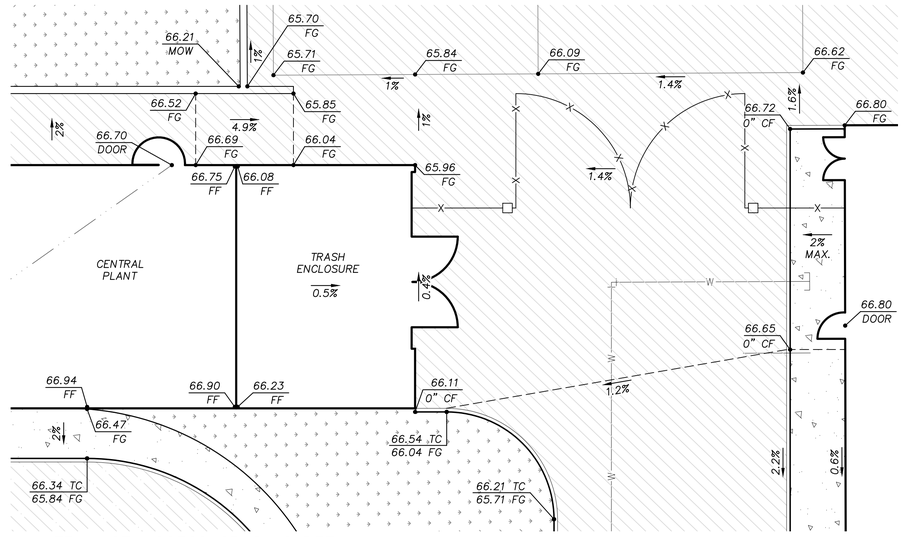
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.:12/52
C4.00

XXX-XXXXX XXX-XXX

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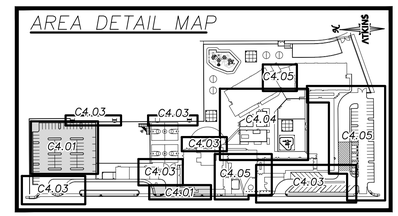




| | CONSTRUCTION NOTES |
|---|---|
| 1A | CONSTRUCT 3.0" OF AC PAVEMENT OVER 6.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 1B | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 2 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 3 | CONSTRUCT "A" TYPE CURB PER DETAIL 3 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT SIDEWALK RAMP CCAUSD NO. 235 CASE I. |
| 7 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 8 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 9 | CONSTRUCT 4' VALLEY GUTTER PER DETAIL 10 ON SHEET C8.02. |
| 10 | CONSTRUCT 2' CURB OPENING DETAIL 6 ON SHEET C8.02. |
| 11 | INSTALL 6" CONCRETE RISERS WITH HANDRAIL PER ARCH. PLANS. |
| 12 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 13 | CONSTRUCT RIPRAP SWALE. D50=8", THICKNESS=16". PER DETAIL 7 ON SHEET C8.02 |
| 14 | CONSTRUCT RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DETAILS. |
| 15 | INSTALL FENCE/GATE PER ARCH. SEE DETAIL 5 ON SHEET C8.02 FOR FOOTING |
| 16 | INSTALL 12" MOW CURB PER DETAIL 8 ON SHEET C8.02. |
| 17 | PROPOSED IRRIGATION ENCLOSURE PER LANDSCAPE DRAWINGS. |
| 18 | PROPOSED PLAYGROUND STRUCTURE SEE ARCHITECTURAL PLANS. |
| 19 | CONSTRUCT 0" TO 6" CURB FACE TRANSITION. |
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| 25 | CONSTRUCT NVE MAINTENANCE ACCESS PER DETAIL-9 ON SHEET C8.02 |
| 26 | INSTALL DROP INLET. SEE SHEET C5.01 FOR INFORMATION |
| 27 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |

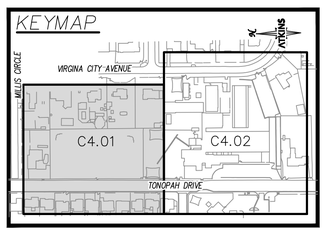
## NOTES:

1. SEE SHEETS C5.02 AND C5.03 FOR SEWER, DOMESTIC WATER AND FIRE WATER.
2. SEE SHEET C5.04 FOR UTILITY CROSSING INFORMATION.
3. SEE SHEET C8.00 FOR CROSS SECTIONS AND SHEETS C8.02 AND C8.03 FOR SECTION DETAILS.
4. SEE SHEETS C4.03 TO C4.05 FOR GRADING DETAILS.
5. ALL ONSITE STORM DRAINAGE AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY CLARK COUNTY SCHOOL DISTRICT.

## AREA DETAIL MAP




## KEYMAP




GRAPHIC SCALE
30 0 15 30 60
HORIZONTAL: 1"=30'

## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

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LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ No. 18849 Exp. 12-31-21 CIVIL
6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
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Fax: +1.702.263.7200

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CONSTRUCTION MANAGEMENT DEPARTMENT
1106 MILITARY ROAD| LAS VEGAS, NV 89101 PHONE: 702-799-5700

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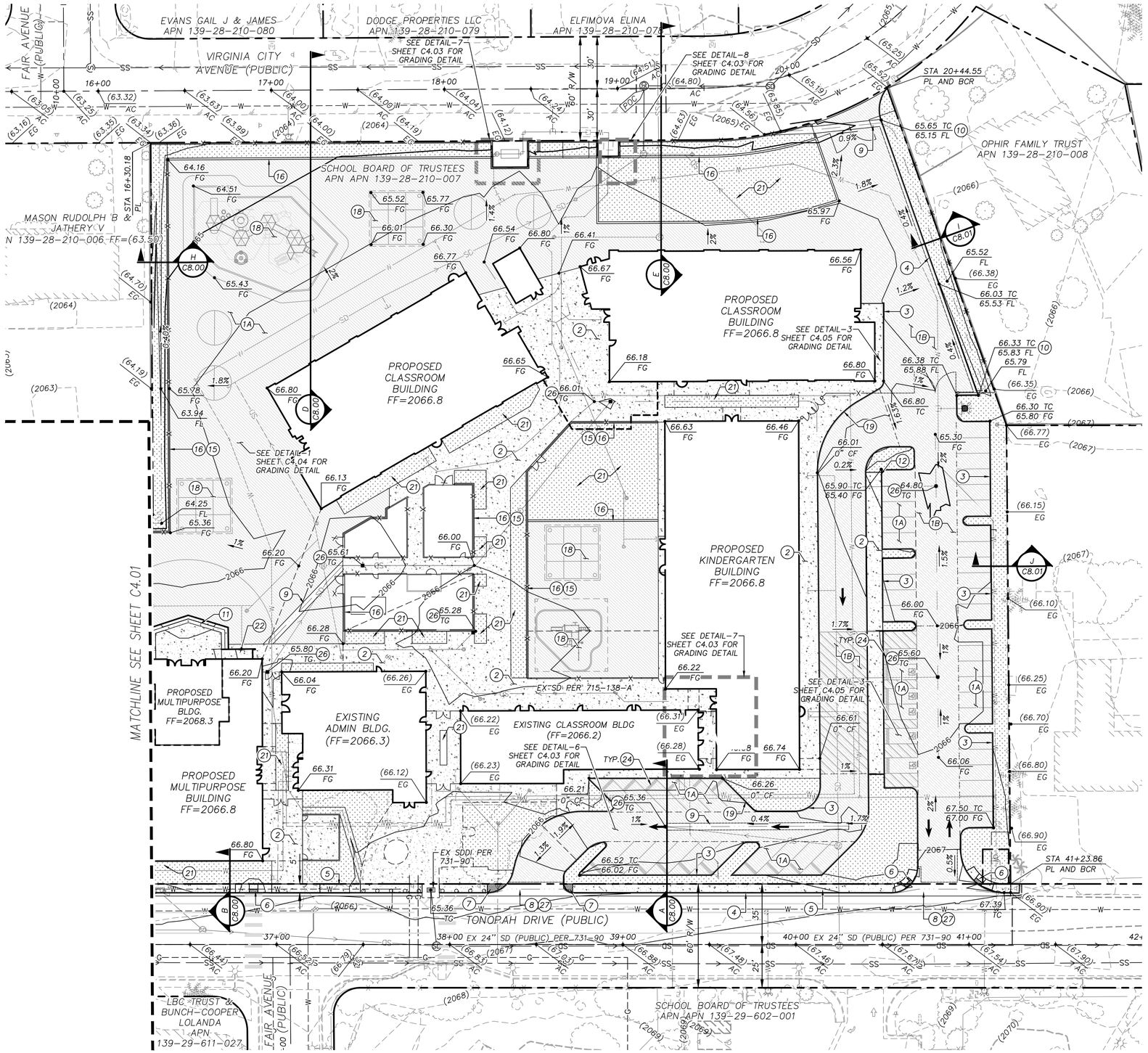
GRADING PLAN 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: A. ORTIZ
HORIZ.: 1"=30'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.13/32
C4.01

XXX-XXXXX XXX-XXX

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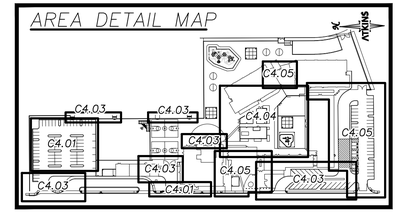



| | CONSTRUCTION NOTES |
|---|---|
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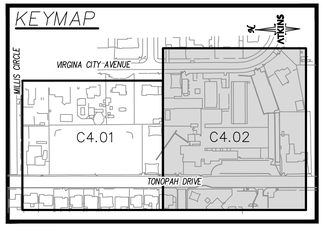
## NOTES:

1. SEE SHEETS C5.02 AND C5.03 FOR SEWER, DOMESTIC WATER AND FIRE WATER.
2. SEE SHEET C5.04 FOR UTILITY CROSSING INFORMATION.
3. SEE SHEET C8.00 FOR CROSS SECTIONS AND SHEETS C8.02 AND C8.03 FOR SECTION DETAILS.
4. SEE SHEETS C4.03 TO C4.05 FOR GRADING DETAILS.
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AREA DETAIL MAP




KEYMAP




GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ No. 18849 CIVIL Exp. 12-31-21

6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1190 MILITARY ROUTE LN, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
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950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

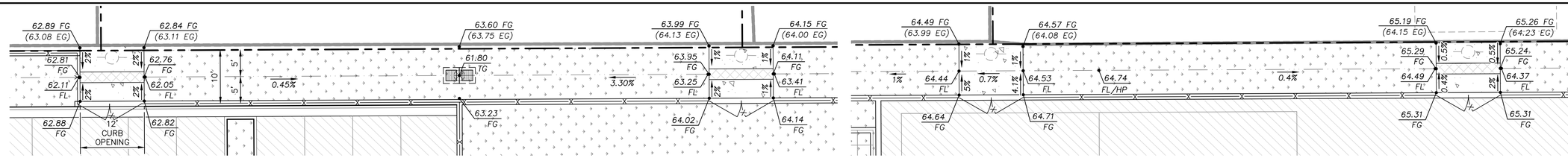
GRADING PLAN 2

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: A. BATES
HORZ.: 1" =30'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.14/32
C4.02

XXX-XXXXX XXX-XXX

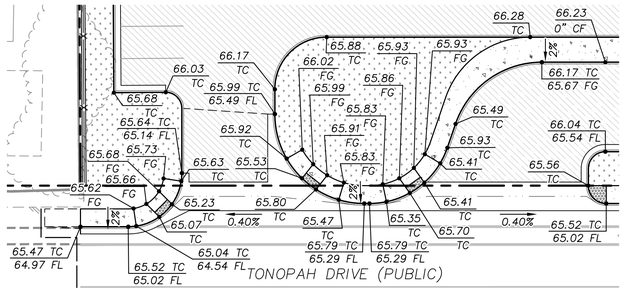
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NVE ACCESS/SWALE GRADING DETAIL

SCALE: 1"=10'

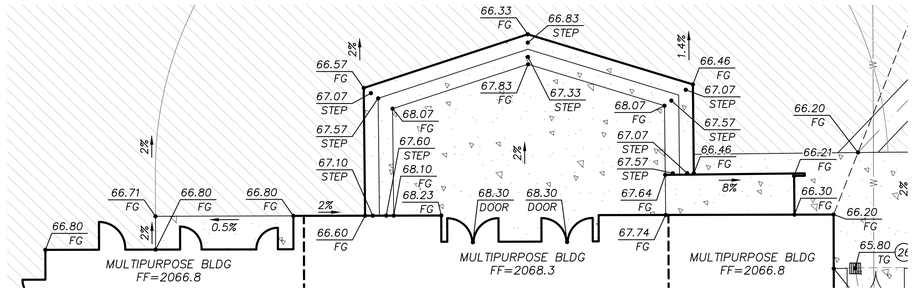
1 C4.03




NORTH PARKING LOT ENTRANCE GRADING DETAIL

SCALE: 1"=20'

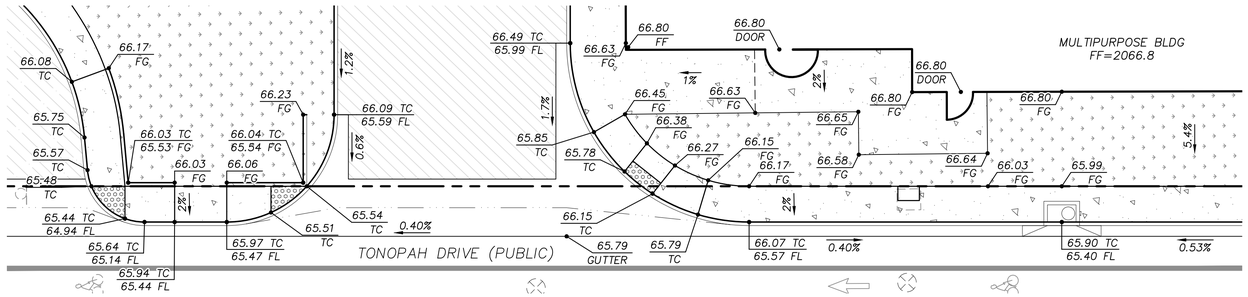
2 C4.03




MUTIPURPOSE BUILDING STAIRS GRADING DETAIL

SCALE: 1"=10'

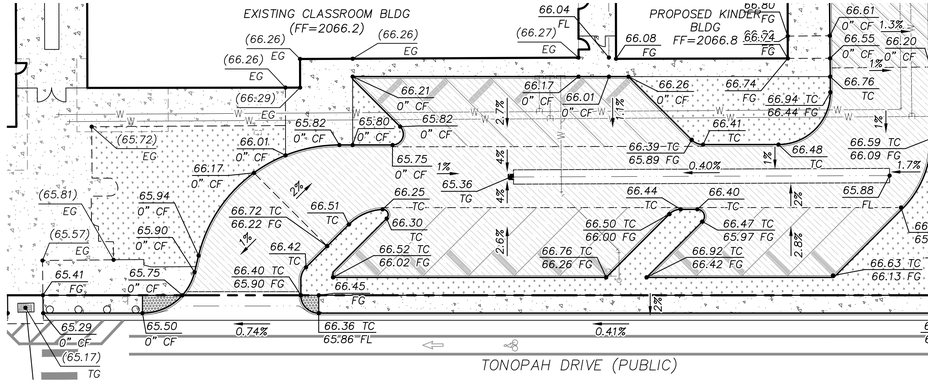
3 C4.03




MAINTENANCE ENTRANCE GRADING DETAIL

SCALE: 1"=10'

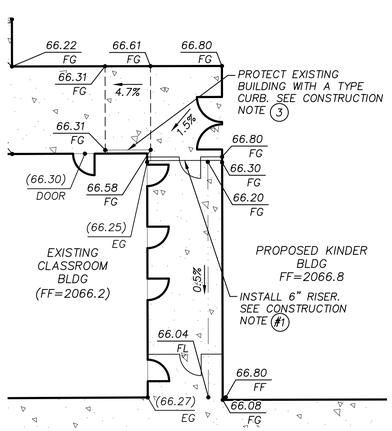
5 C4.03




CLASSROOM BUILDING PARKING LOT GRADING DETAIL

SCALE: 1"=20'

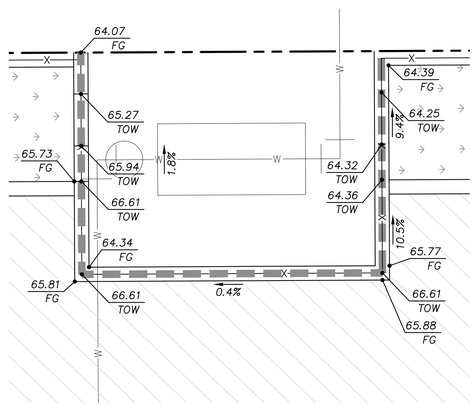
6 C4.03




UTILITY CORRIDOR GRADING DETAIL

SCALE: 1"=10'

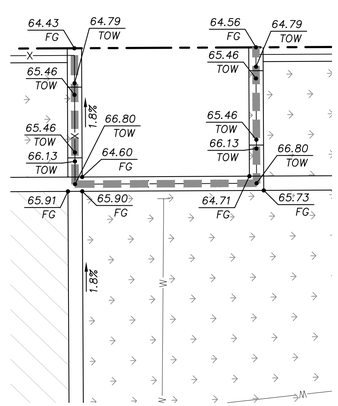
7 C4.03




RPDA GRADING DETAIL

SCALE: 1"=5'

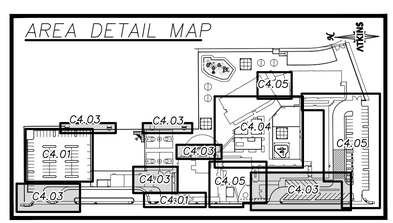
8 C4.03




EXISTING RPPA GRADING DETAIL

SCALE: 1"=5'

9 C4.03




## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 OR 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DIG OVERHEAD 1-702-227-2929

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ EXP. 12-31-21 CIVIL No. 18849 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY TRAIL HENDERSON, NV 89014 PHONE: 702-799-8700

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

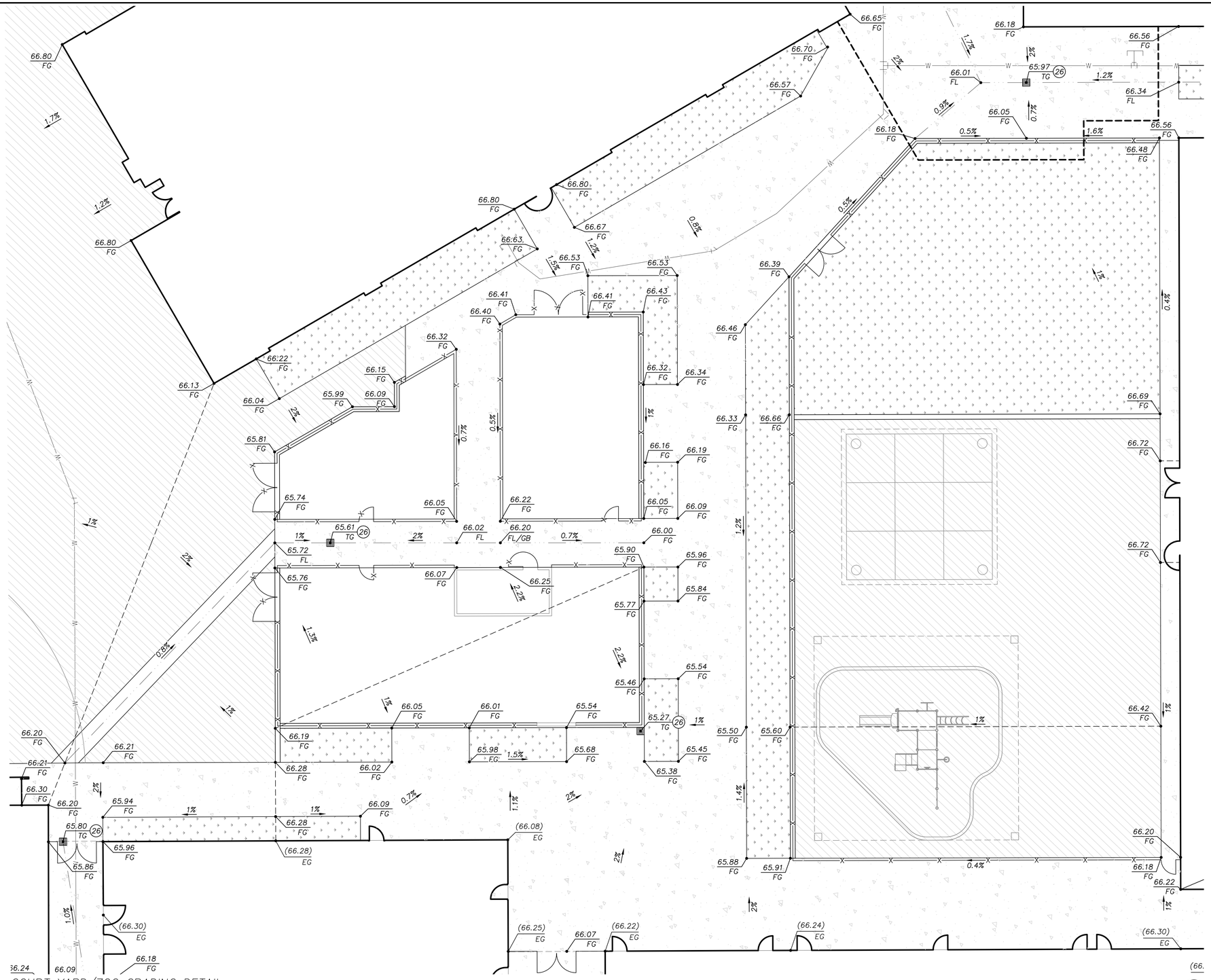
GRADING DETAILS 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: P. BATES
HORIZ.: 1"=30'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 13 / 32
C4.03

XXX-XXXXX XXX-XXX

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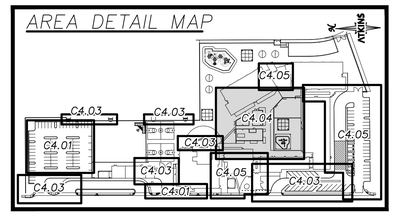

COURT YARD/ZOO GRADING DETAIL

SCALE: 1"=10'

1 C4.04

| | CONSTRUCTION NOTES |
|---|---|
| 1A | CONSTRUCT 3.0" OF AC PAVEMENT OVER 6.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 1B | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 2 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 3 | CONSTRUCT "A" TYPE CURB PER DETAIL 3 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT SIDEWALK RAMP CCAUSD NO. 235 CASE I. |
| 7 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 8 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 9 | CONSTRUCT 4' VALLEY GUTTER PER DETAIL 10 ON SHEET C8.02. |
| 10 | CONSTRUCT 2' CURB OPENING DETAIL 6 ON SHEET C8.02. |
| 11 | INSTALL 6" CONCRETE RISERS WITH HANDRAIL PER ARCH. PLANS. |
| 12 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 13 | CONSTRUCT RIPRAP SWALE. D50=8", THICKNESS=16". PER DETAIL 7 ON SHEET C8.02 |
| 14 | CONSTRUCT RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DETAILS. |
| 15 | INSTALL FENCE/GATE PER ARCH. SEE DETAIL 5 ON SHEET C8.02 FOR FOOTING |
| 16 | INSTALL 12" MOW CURB PER DETAIL 8 ON SHEET C8.02. |
| 17 | PROPOSED IRRIGATION ENCLOSURE PER LANDSCAPE DRAWINGS. |
| 18 | PROPOSED PLAYGROUND STRUCTURE SEE ARCHITECTURAL PLANS. |
| 19 | CONSTRUCT 0" TO 6" CURB FACE TRANSITION. |
| 20 | INSTALL RAISED PAVEMENT MARKERS PER CCAUSD 235. |
| 21 | PROPOSED PLANTER PER LANDSCAPE DRAWINGS. |
| 22 | CONSTRUCT RAMP WITH HANDRAIL PER ARCH. DRAWINGS. |
| 23 | MATCH EXISTING ELEVATION |
| 24 | INSTALL BUMP STOP PER CCAUSD 238 |
| 25 | CONSTRUCT NVE MAINTENANCE ACCESS PER DETAIL-9 ON SHEET C8.02 |
| 26 | INSTALL DROP INLET. SEE SHEET C5.01 FOR INFORMATION |
| 27 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |

AREA DETAIL MAP




## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

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Call before you dig — Call 811 or 1-800-642-2444

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PROFESSIONAL ENGINEER-STATE OF NEVADA — ANTHONY J. ORTIZ — EXP. 12-31-21 — CIVIL — No. 18849 — 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
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Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY RIDGE DR, HENDERSON, NV 89014 PHONE: 702-799-5170

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
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950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

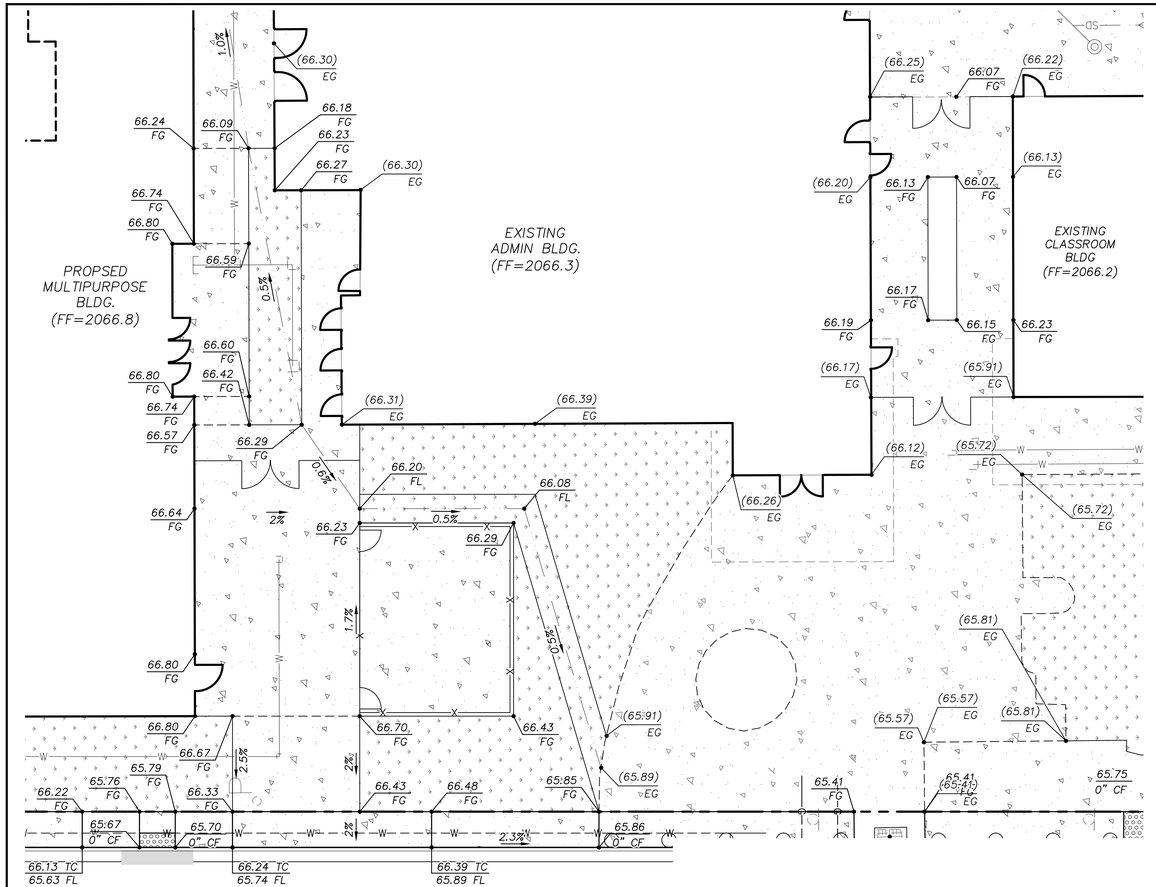
GRADING DETAILS 2

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. BATES
HORIZ.: 1"=30'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 16/32
C4.04

XXX-XXXXX XXX-XXX

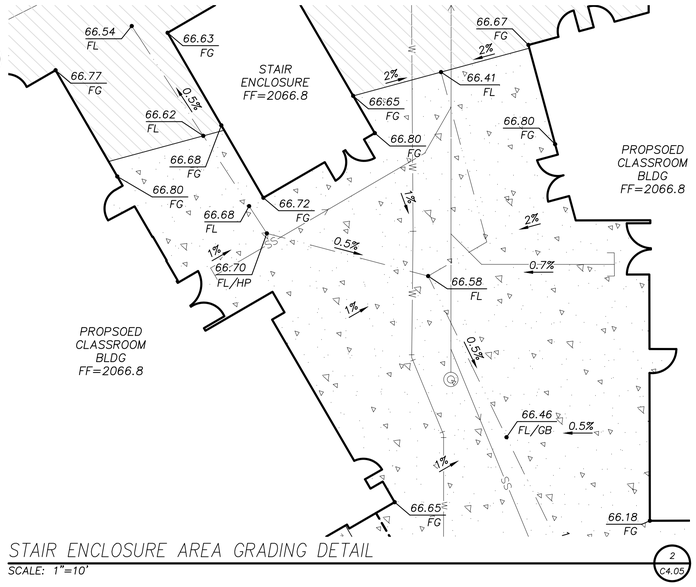
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MULTIPURPOSE/ADMIN CORRIDOR GRADING DETAIL

SCALE: 1"=10'

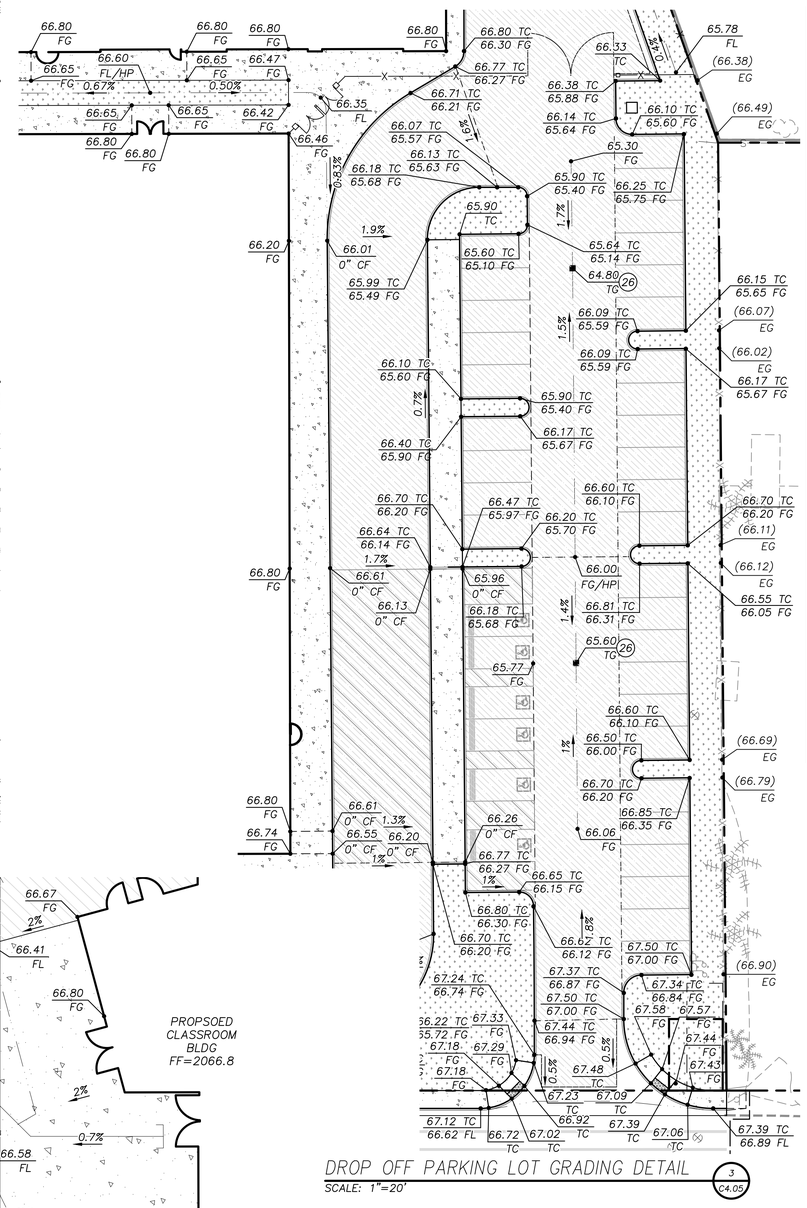
1 / C4.05




STAIR ENCLOSURE AREA GRADING DETAIL

SCALE: 1"=10'

2 / C4.05



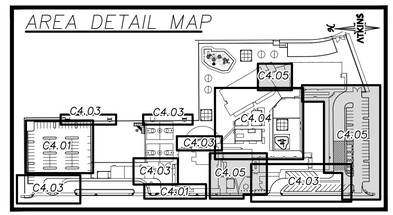
DROP OFF PARKING LOT GRADING DETAIL

SCALE: 1"=20'

3 / C4.05

| | CONSTRUCTION NOTES |
|---|---|
| 1A | CONSTRUCT 3.0" OF AC PAVEMENT OVER 6.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
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AREA DETAIL MAP




## GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

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## BENCHMARK

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ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

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NEVADA PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ EXP. 11-30-21 CIVIL No. 18849

6/01/2020

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

REVISIONS

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROUTE LN, HENDERSON, NV 89014 PHONE: 702-799-5700

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
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950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

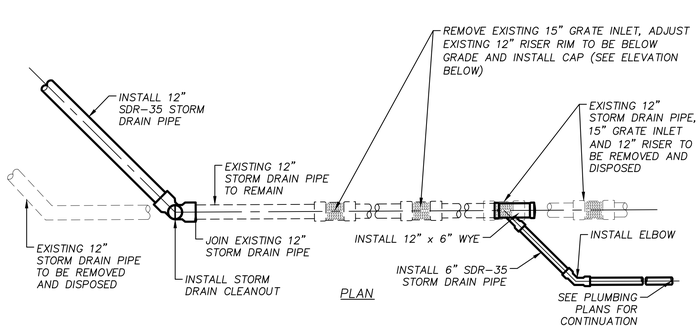
GRADING DETAILS 3

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: P. BATES
HORZ.: 1"=10'
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 17/32
C4.05

XXX-XXXXX XXX-XXX

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## EXISTING STORM DRAIN CONNECTION DETAIL

N.T.S.

| | STORM DRAIN CONSTRUCTION NOTES |
|---|---|
| 1 | INSTALL 3" SCHEDULE 80 PVC STORM DRAIN PIPE. |
| 2 | INSTALL 4" C900 PVC STORM DRAIN PIPE. |
| 3 | INSTALL 5" C900 PVC STORM DRAIN PIPE. |
| 4 | INSTALL 6" SDR-35 STORM DRAIN PIPE. |
| 5 | INSTALL 8" SDR-35 STORM DRAIN PIPE. |
| 6 | INSTALL 12" SDR-35 STORM DRAIN PIPE. |
| 7 | INSTALL DUAL 12" SDR-35 STORM DRAIN PIPE |
| 8 | INSTALL 18" SDR-35 STORM DRAIN PIPE. |
| 9 | INSTALL 48" TYPE II SDMH PER CCAUSD #405.2 |
| 10 | INSTALL DROP INLET PER DETAILS ON SHEET C8.01 |
| 11 | INSTALL STORM DRAIN CLEAN OUT |
| 12 | INSTALL STORM DRAIN WYE |
| 13 | INSTALL 2'-2' x 2' NDOT TYPE 2 DROP INLET WITH NEENAH R-4345 SQUARE BEEHIVE GRATE OR EQUIVALENT. |
| 14 | CONNECT TO MODIFIED TYPE "C-D" DROP INLET PER CCAUSD 412.1. SEE SHEETS C6.01 TO C6.03 FOR TONOPAH DRIVE AND VIRGINIA CITY AVENUE STORM DRAIN SYSTEM INFORMATION. |
| 15 | CONNECT TO 18" STORM DRAIN PIPE. SEE SHEETS C6.01 TO C6.03 FOR TONOPAH DRIVE STORM DRAIN SYSTEM INFORMATION. |
| 16 | CONNECT TO EXISTING 18" STORM DRAIN PIPE |
| 17 | SEE PLUMBING PLANS FOR CONTINUATION INSIDE BUILDING. |
| 18 | CONNECT EXISTING TO PROPOSED STORM DRAIN SYSTEM AND CAP EXISTING DROP INLETS. SEE DETAIL-A, THIS SHEET. |
| 19 | INSTALL 24" SDR-35 STORM DRAIN PIPE. |

### NOTES:

1. SEE SHEETS C4.00, C4.01, AND C4.02 FOR GRADING
2. SEE SHEETS C5.02 AND C5.03 FOR SEWER, DOMESTIC WATER AND FIRE WATER.
3. SEE SHEET C5.04 FOR UTILITY CROSSING INFORMATION.
4. SEE SHEET C8.00 FOR CROSS SECTIONS AND SHEET C8.02 AND C8.03 FOR SECTION DETAILS.
5. ALL ONSITE STORM DRAINAGE AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY CLARK COUNTY SCHOOL DISTRICT.

GRAPHIC SCALE
30 0 15 30 60
HORIZONTAL: 1"=30'

### GRADING PLAN CERTIFICATION

NAME: ANTHONY J. ORTIZ PE: 18849 DATE:

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#5249

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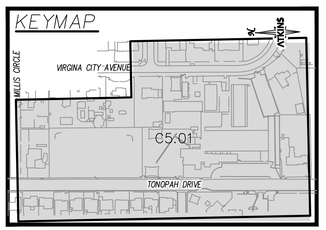
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KEYMAP




REVISIONS

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|---|---|---|---|---|

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2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
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950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

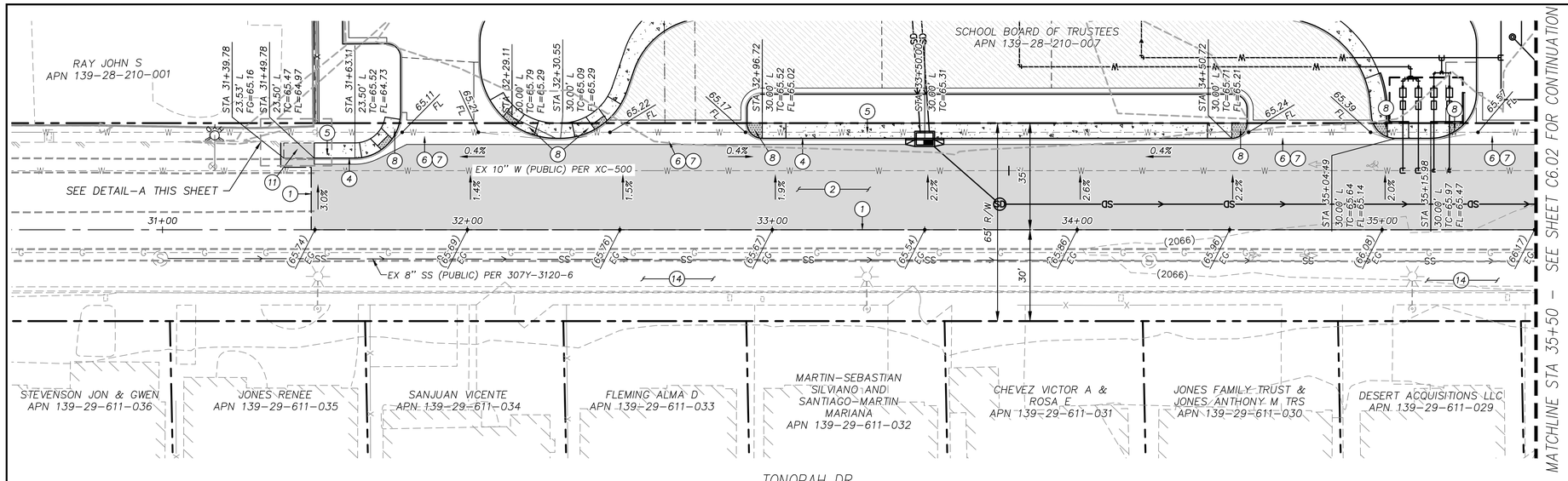
STORM DRAIN PLAN

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: T. ORTIZ
HORZ.: 1"=30'
VERT.: NONE

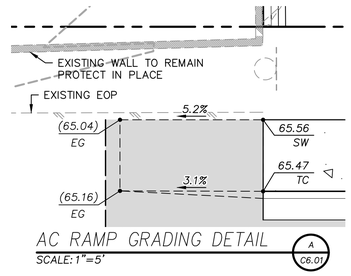
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 19/32
C5.01

XXX-XXXXX XXX-XXX

X:\Projects\Land Development\SH Architecture\100067217 - Mabel Hoggard ES- Replacement_Sheet\67217-08-GRAD-SD1.dwg LAYOUT: C5.01 Jun 01, 2020 - 2:57PM




| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 3 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 7 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |
| 8 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 9 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 10 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422. L=5'; T=6"; D= 6.41' |
| 11 | CONSTRUCT AC RAMP PER DETAILS A AND B ON SHEETS C6.01 AND C6.03. |
| 12 | CONSTRUCT 0" "L" TYPE CURB PER CCAUSD NO. 216. |
| 13 | CONSTRUCT 6" TO 0" CURB FACE TRANSITION. |
| 14 | PROTECT EXISTING IMPROVEMENTS IN PLACE |
| 15 | CONSTRUCT SIDEWALK RAMP CASE "I" PER CCAUSD NO. 235 |
| 16 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422 L=5', D=6.18' |




AC RAMP GRADING DETAIL
SCALE:1"=5'
A C6.01




GRAPHIC SCALE
30 0 15 30 60
HORIZONTAL: 1"=30'
12 0 3 6 12
VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

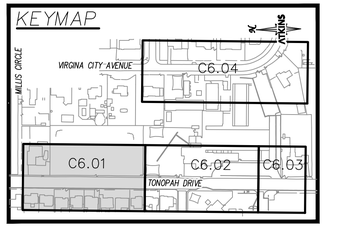
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

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.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT

PROJECT NO. 137309 FIRST APPROVED DATE: _____




PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY M. TRAN CIVIL No. 18943 EXP. 12-31-21
6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1190 MILITARY ROUTE DR, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

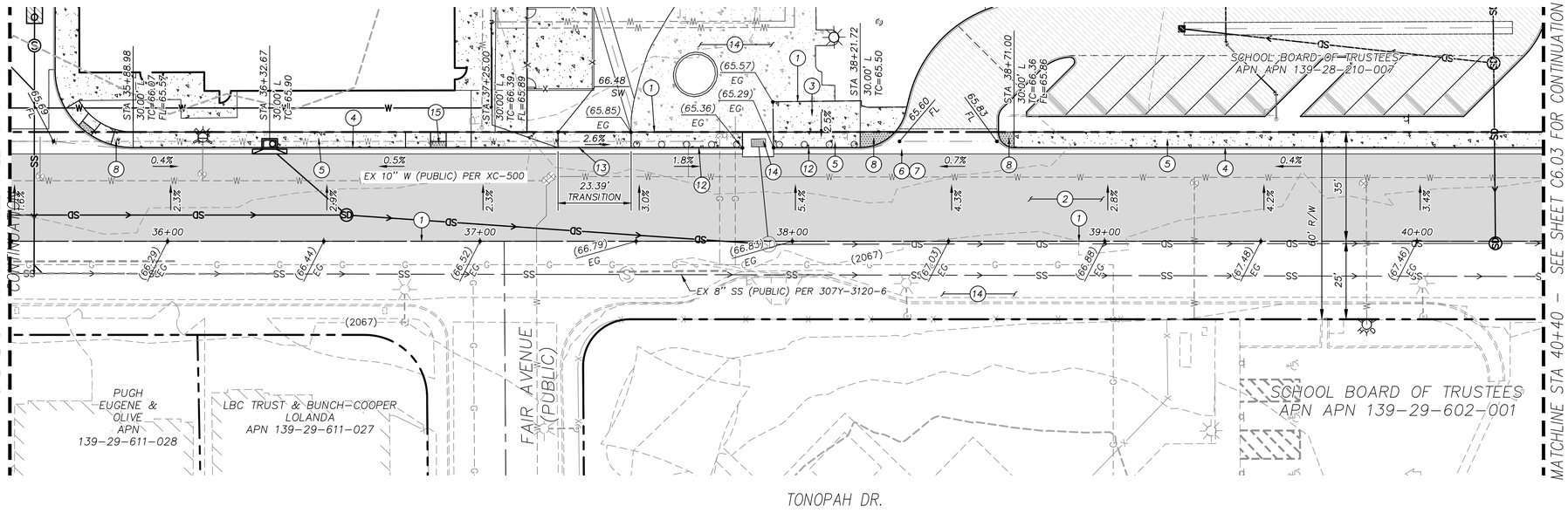
PLAN AND PROFILE 1
TONOPAH DRIVE STA 31+00 TO 37+50

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: C. ORTIZ
HORZ.: 1"=30'
VERT.: 1"=4'

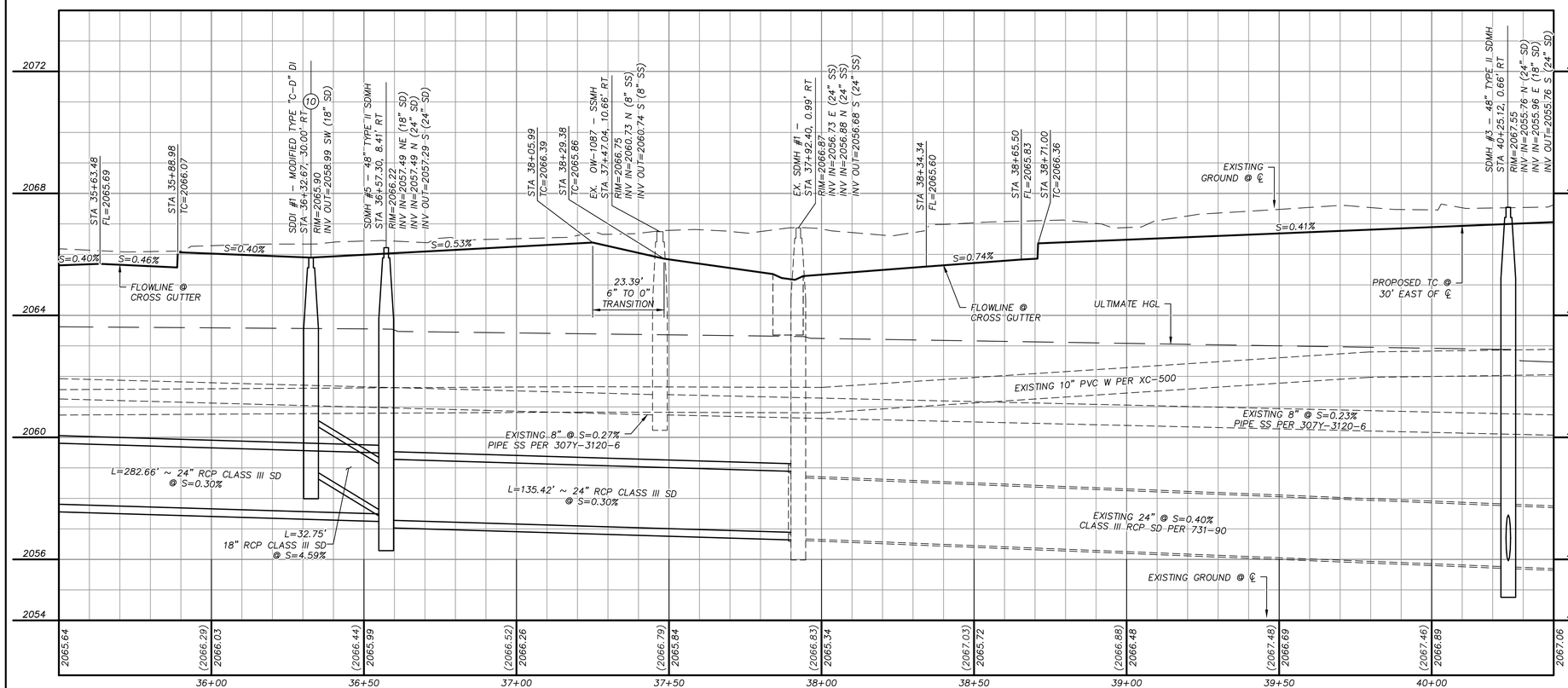
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.23/32
C6.01

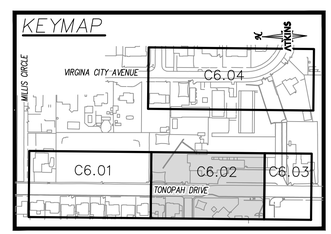
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| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
| 3 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C8.02. |
| 4 | CONSTRUCT "L" TYPE CURB PER CCAUSD NO. 216. |
| 5 | CONSTRUCT CONCRETE SIDEWALK PER CCAUSD NO. 234. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS. |
| 6 | CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD NO. 225. |
| 7 | CONSTRUCT VALLEY GUTTER PER CCAUSD NO. 228. |
| 8 | CONSTRUCT ACCESSIBLE RAMP PER DETAIL 4 ON SHEET C8.02. |
| 9 | CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236. |
| 10 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422. L=5';T=6"; D= 6.41' |
| 11 | CONSTRUCT AC RAMP PER DETAILS A AND B ON SHEETS C6.01 AND C6.03. |
| 12 | CONSTRUCT 0" "L" TYPE CURB PER CCAUSD NO. 216. |
| 13 | CONSTRUCT 6" TO 0" CURB FACE TRANSITION. |
| 14 | PROTECT EXISTING IMPROVEMENTS IN PLACE |
| 15 | CONSTRUCT SIDEWALK RAMP CASE "I" PER CCAUSD NO. 235 |
| 16 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422 L=5', D=6.18' |




GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

12 0 3 6 12

VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 OR 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DIG OVERHEAD 1-702-227-2929

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. CABRERA No. 18943 EXP. 12-31-21 CIVIL 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROAD #4, HENDERSON, NV 89014 PHONE: 702-799-8010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

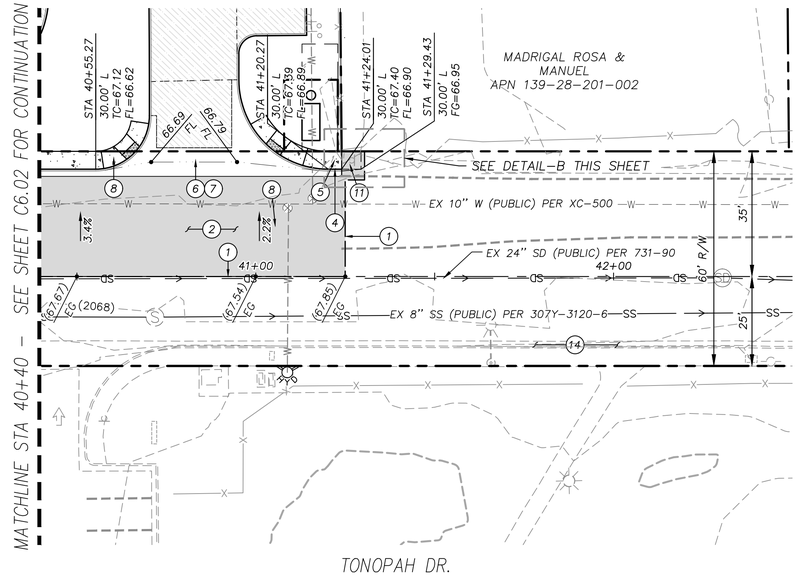
PLAN AND PROFILE 2
TONOPAH DRIVE 35+67 TO 40+75

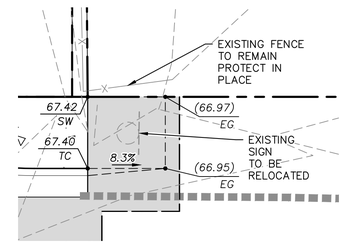
DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. ORTIZ
HORIZ.: 1"=30'
VERT.: 1"=6'

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.24/32
C6.02

XXX-XXXXX XXX-XXX

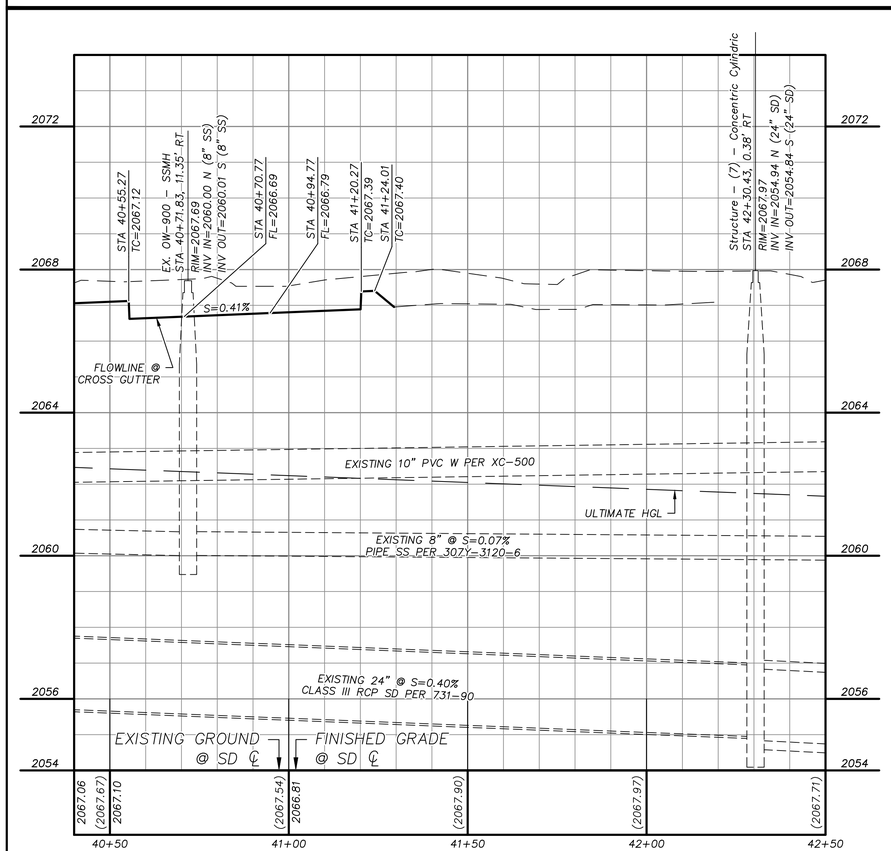
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AC RAMP GRADING DETAIL (B / C6.03)
SCALE: 1"=5'

| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
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| 16 | CONSTRUCT MODIFIED TYPE "C-D" DROP INLET PER CCAUSD NO. 412.1 & NO. 422 L=5', D=6.18' |




GRAPHIC SCALE
30 0 15 30 60
HORIZONTAL: 1"=30'
12 0 3 6 12
VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
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FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

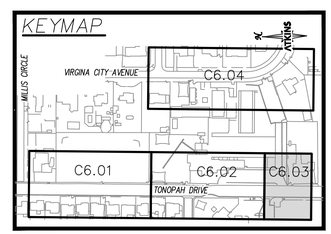
FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you dig 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ Exp. 12-31-21 CIVIL No. 18993
6/01/2020




REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
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ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY ROAD LN, HENDERSON, NV 89014 PHONE: 702-799-8010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

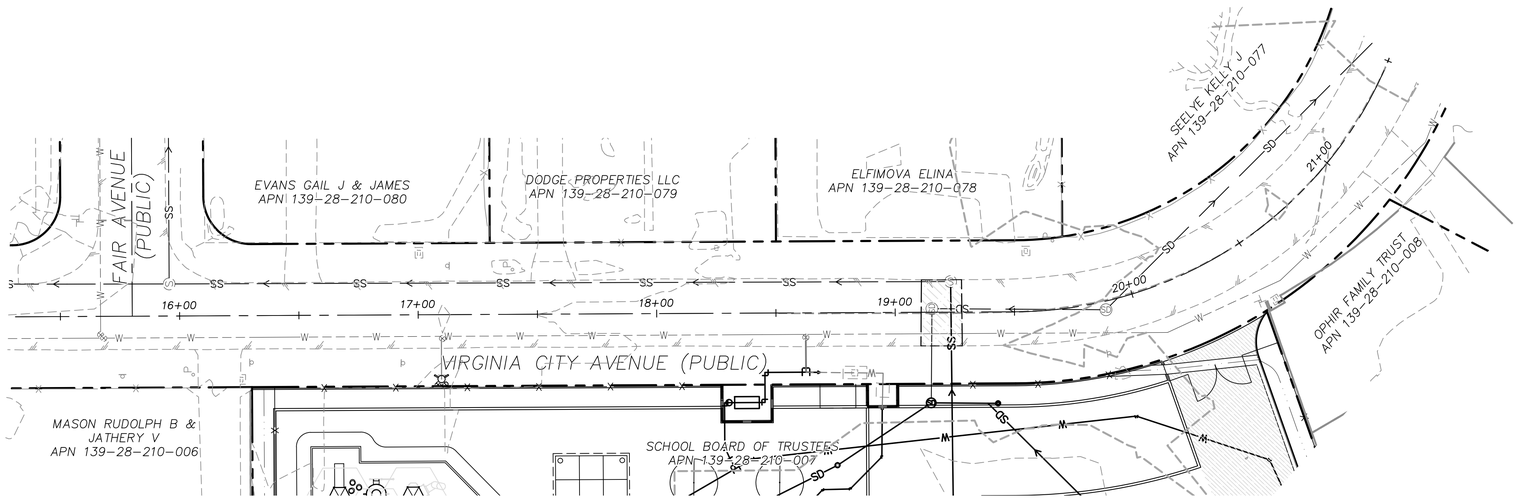
PLAN AND PROFILE 3
TONOPAH DRIVE 40+75 TO 42+50

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. ORTIZ
HORIZ.: 1"=30'
VERT.: 1"=6'

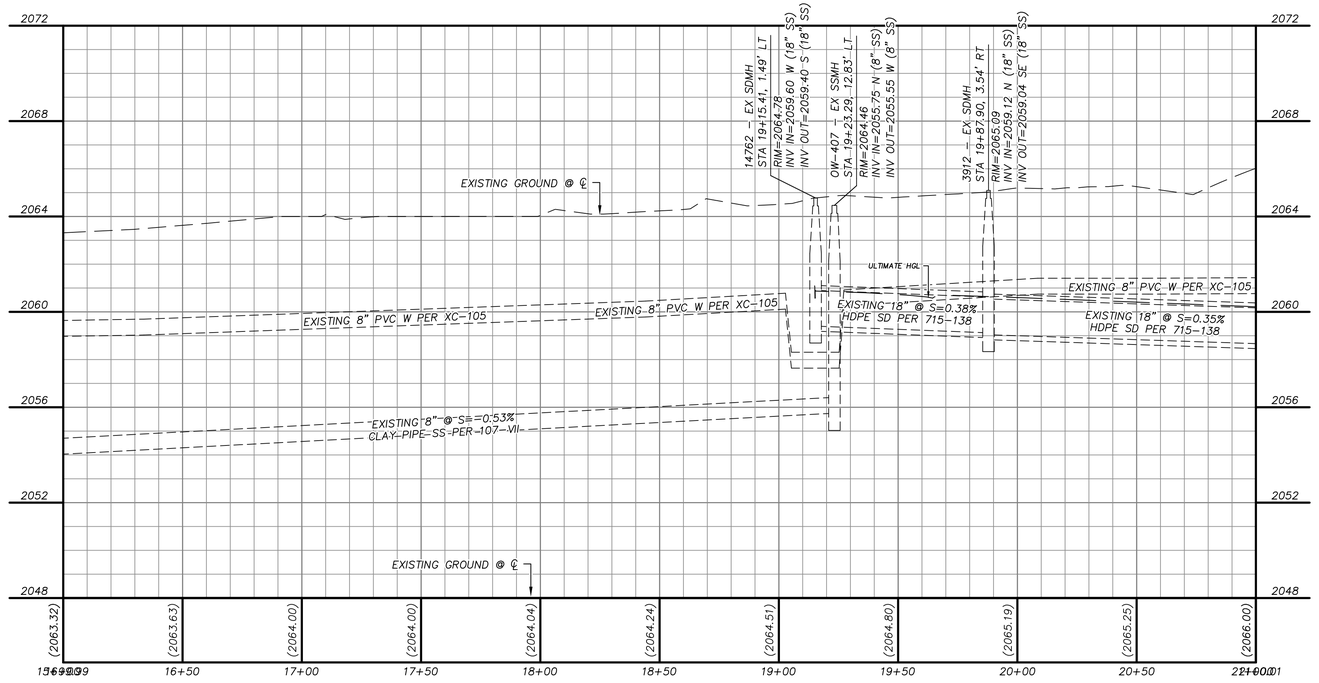
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 25/32
C6.03

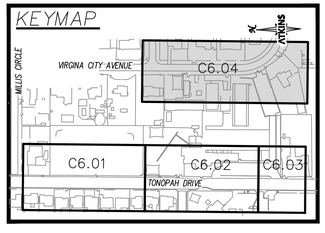
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| | CONSTRUCTION NOTES |
|---|---|
| 1 | MATCH EXISTING ELEVATION |
| 2 | CONSTRUCT 4.0" OF AC PAVEMENT OVER 8.0" AGGREGATE BASE PER DETAIL 1 ON SHEET C8.02. |
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| 11 | CONSTRUCT AC RAMP PER DETAILS A AND B ON SHEETS C6.01 AND C6.03. |
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| 13 | CONSTRUCT 6" TO 0" CURB FACE TRANSITION. |
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GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

12 0 3 6 12

VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

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

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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY ORTIZ EXP. 12-31-21 CIVIL No. 18993

6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
100 MILITARY ROUTE DR, HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

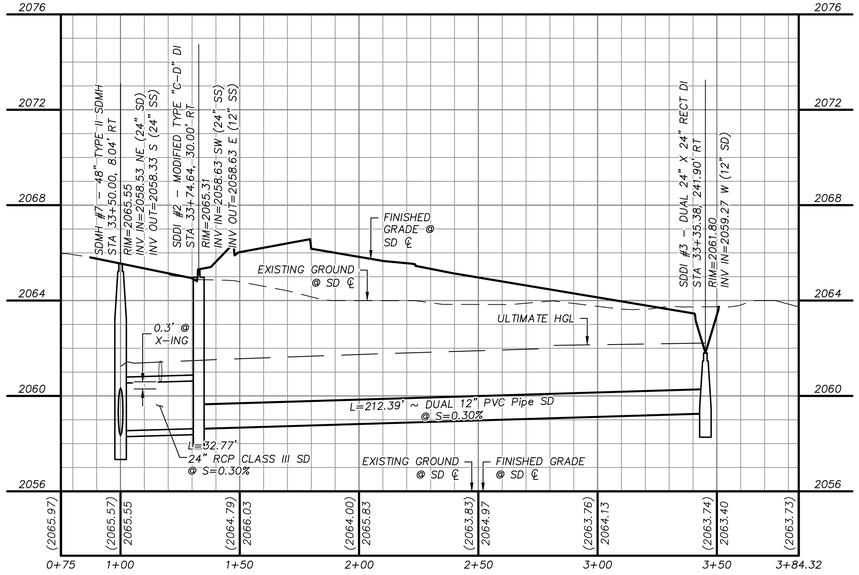
PLAN AND PROFILE 4
VIRGINIA CITY DRIVE 15+50 TO 21+00

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: A. ORTIZ
HORIZ.: 1"=30'
VERT.: 1"=4'

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 26/32
C6.04

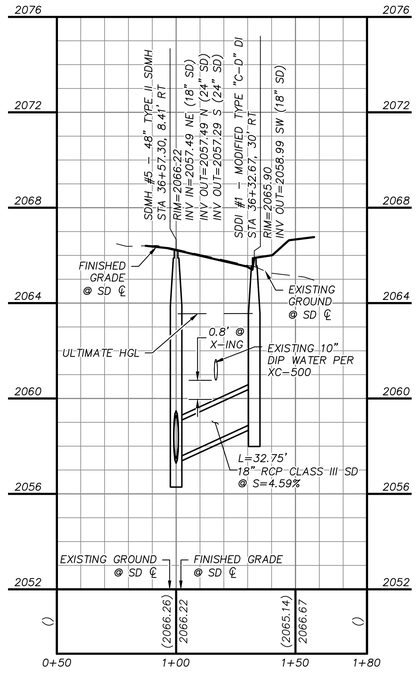
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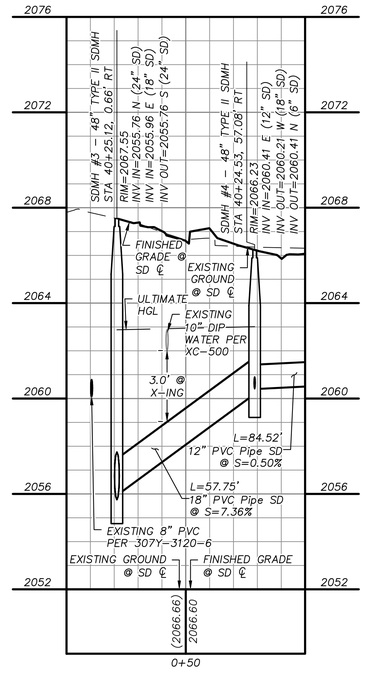

STORM DRAIN LATERAL 1 (A C6.05)

TONOPAH DRIVE STA 33+50; SEE SHEET C5.01



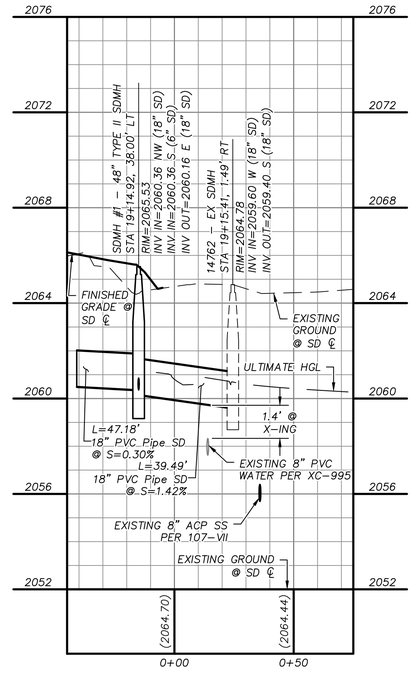

STORM DRAIN LATERAL 2 (B C6.05)

TONOPAH DRIVE STA 36+57; SEE SHEET C5.01




STORM DRAIN LATERAL 3 (C C6.05)

TONOPAH DRIVE STA 40+25; SEE SHEET C5.01




STORM DRAIN LATERAL 4 (D C6.05)

VIRGINIA CITY AVENUE STA 19+15; SEE SHEET C5.01

GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"=30'

12 0 3 6 12

VERTICAL: 1"=6'

SOUTHWEST GAS CORPORATION DATE

## BASIS OF BEARING

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR AV. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY ASSISTANCE SYSTEM OF TRANSPORTATION

Call before you dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

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PROFESSIONAL ENGINEER – STATE OF NEVADA – ANTHONY J. ORTIZ – Exp. 12-31-21 – CIVIL – No. 18943 – 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|
| | | | | |

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

CONSTRUCTION MANAGEMENT DEPARTMENT
1301 MILITARY RIDGE DR, HENDERSON, NV 89014 PHONE: 702-799-5170

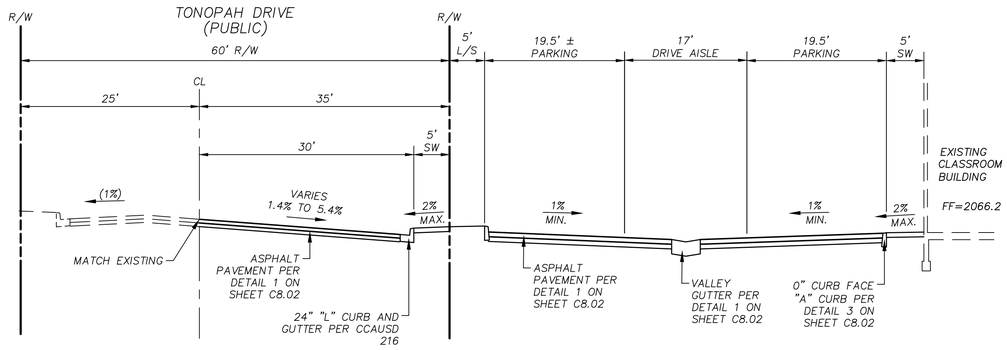
STORM DRAIN LATERAL PROFILES

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: A. ORTIZ
HORZ.: 1"=30'
VERT.: 1"=4'

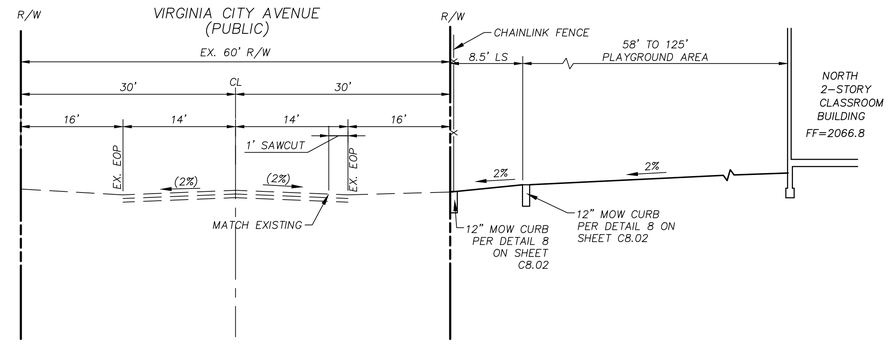
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO.27/32
C6.05

XXX-XXXXX XXX-XXX

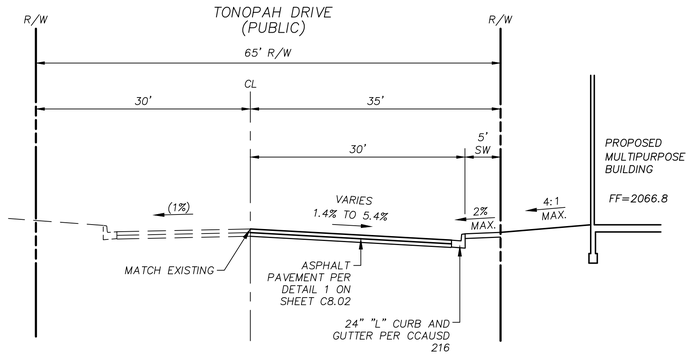
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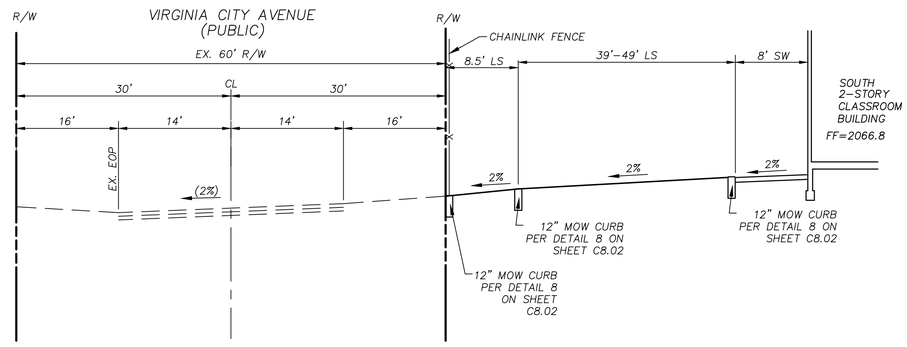


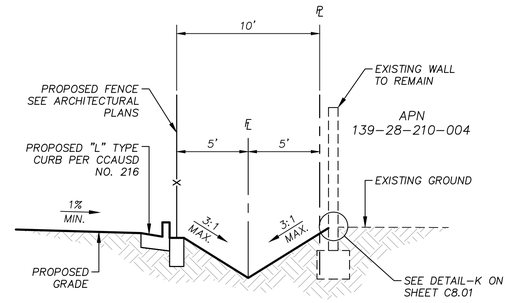

WEST PROPERTY CROSS SECTION (A / C4.02)
N.T.S.



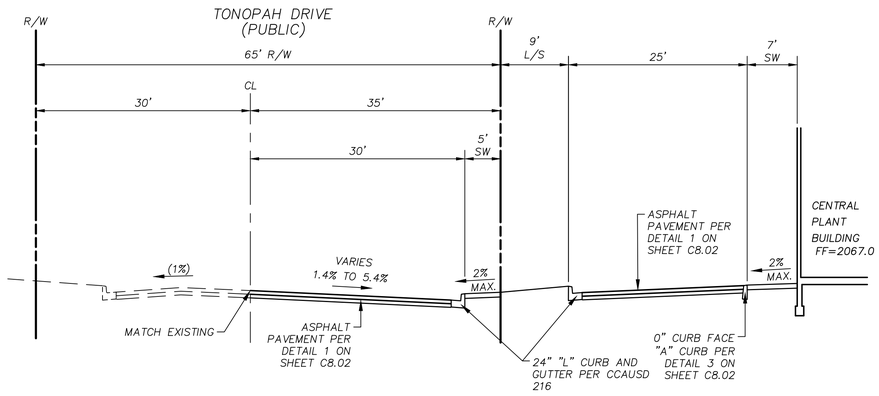

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N.T.S.



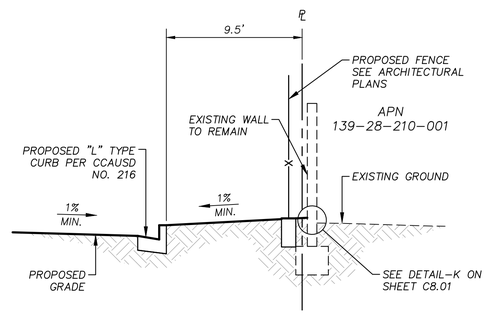



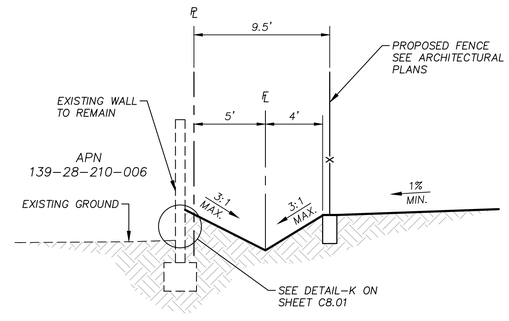

WEST PROPERTY CROSS SECTION (B / C4.01)
N.T.S.




EAST PROPERTY CROSS SECTION (E / C4.02)
N.T.S.




EAST PROPERTY LINE CHANNEL GRADING DETAIL (G / C4.01)
N.T.S.




WEST PROPERTY CROSS SECTION (C / C4.01)
N.T.S.

NORTH PARKING PL GRADING DETAIL (F / C4.01)
N.T.S.

NORTH CLASS ROOM BUILDING PL GRADING DETAIL (H / C4.01)
N.T.S.

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
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STANDARD PARALLEL SCALE:1.0001
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ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

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PROFESSIONAL ENGINEER-STATE OF NEVADA ANTHONY J. ORTIZ EXP. 12-31-21 CIVIL No. 18993 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
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2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
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Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILITARY RIDGE DR, HENDERSON, NV 89014 PHONE: 702-799-5700

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

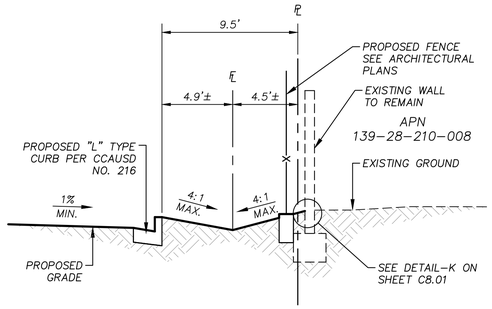
TYPICAL SECTIONS 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: J. ORTIZ
HORZ.: NONE
VERT.: NONE

JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 29/32
C8.00

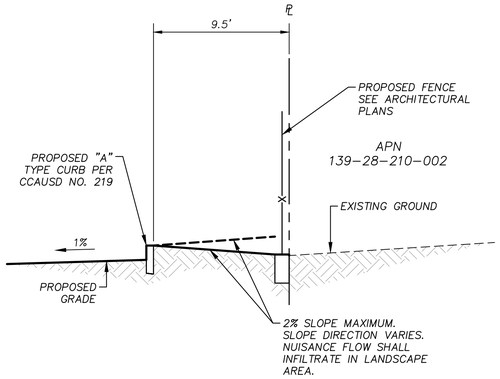
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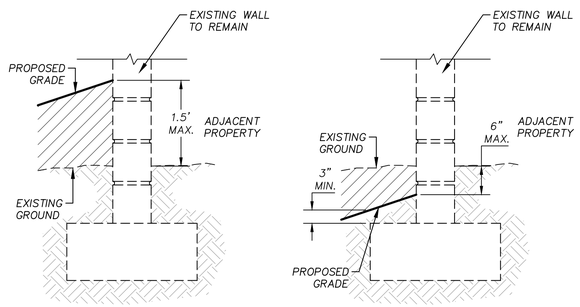

SOUTH CLASS ROOM BUILDING PL CHANNEL DETAIL (1 / C3.01)

N.T.S.




SOUTH KINDERGARTEN PARKING LOT GRADING DETAIL (J / C3.01)

N.T.S.




IN AREAS OF FILL

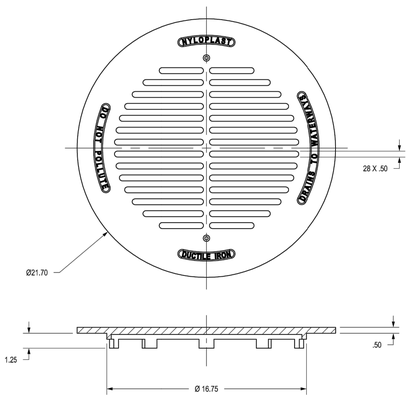
IN AREAS OF CUT

EDGE CONDITION AT EXISTING PROPERTY WALL (K / C3.01)

N.T.S.

## 1801DI

APPROX. DRAIN AREA = 84.61 SQ IN
APPROX. WEIGHT = 47.22 LBS




DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.

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| | | | |
|---|---|---|---|
| DRAWN BY | CJA | MATERIAL | |
| DATE | 7-5-01 | | |
| REVISED BY | JJC | PROJECT NO./NAME | |
| DATE | 8-14-12 | | |
| DWG SIZE | A | SCALE 1:6 | SHEET 1 OF 1 |

Nyloplast
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BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
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TITLE: 18 IN DROP IN

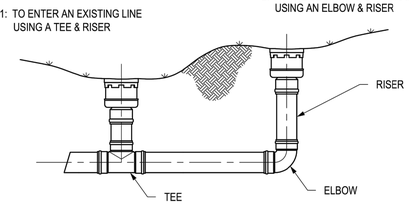
DWG NO. 7001-110-074 REV D

## WHEN ARE INLINE DRAINS USED?

2708AG _ _ X
2710AG _ _ X
2712AG _ _ X
2715AG _ _ X
2718AG _ _ X
2724AG _ _ X
2730AG _ _ X

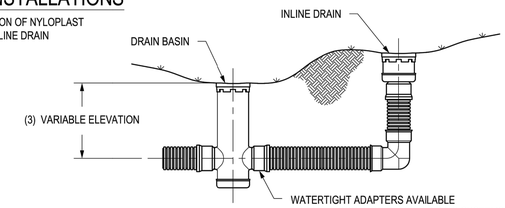
1: TO ENTER AN EXISTING LINE USING A TEE & RISER

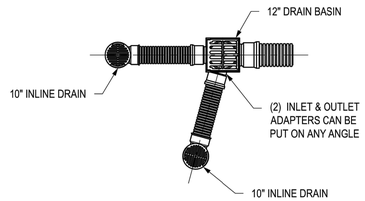
2: AT THE BEGINNING OF A DRAIN LINE USING AN ELBOW & RISER




## TYPICAL INSTALLATIONS

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN

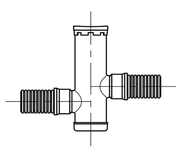


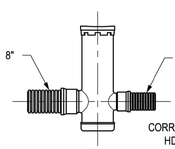

## WHEN ARE DRAIN BASINS USED?

2808AG _ _ X
2810AG _ _ X
2812AG _ _ X
2815AG _ _ X
2818AG _ _ X
2824AG _ _ X
2830AG _ _ X
2836AG _ _ X

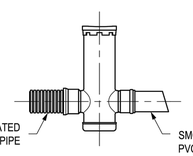
1: TO CHANGE ELEVATION



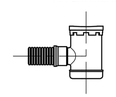
2: TO CHANGE PIPE DIAMETER



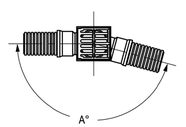

3: TO CHANGE PIPE TYPE




4: FOR SHALLOW APPLICATIONS



5: TO CHANGE DIRECTION




1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 36"
2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065
4 - REDUCING CONES DOWN TO 30" DIAMETER WILL BE REQUIRED FOR 36" DRAIN BASINS.

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| | | | |
|---|---|---|---|
| DRAWN BY | AWA | MATERIAL | |
| DATE | 8-10-00 | | |
| REVISED BY | NMH | PROJECT NO./NAME | |
| DATE | 11-2-18 | | |
| DWG SIZE | A | SCALE 1:40 | SHEET 1 OF 1 |

Nyloplast
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BUFORD, GA 30518
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FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 8 IN - 36 IN TYPICAL INSTALLATION OPTIONS

DWG NO. 7001-110-042 REV E

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
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FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
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ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

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PROFESSIONAL ENGINEER-STATE OF NEVADA — ANTHONY J. CORTEZ — Exp. 12-31-21 — CIVIL — No. 18943 — 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

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2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
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Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1830 MILITARY ROAD DR., HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

TYPICAL SECTIONS 2

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: T. CORTEZ
HORIZ.: NONE
VERT.: NONE

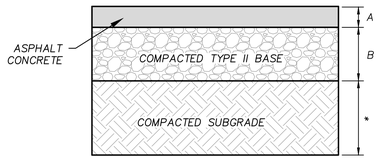
JOB NO. 100067217
DATE: 4/10/2020
DRAWING NO. 29/32
C8.01

XXX-XXXXX XXX-XXX

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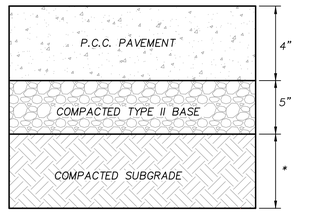
THICKNESS SCHEDULE

| TRAFFIC AREA | A ASPHALT | B TYPE II BASE |
|---|---|---|
| LIGHT DUTY HOURS | 3.0" | 6.0" |
| HEAVY DUTY AREAS | 4.0" | 8.0" |
| FIRE ACCESS LANES | 4.0" | 8.0" |



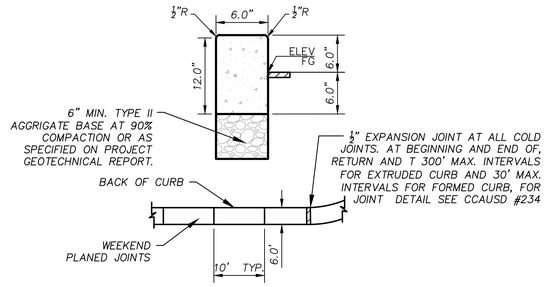

* REFER TO GEOTECHNICAL INVESTIGATION REPORT. FOR PLACEMENT OF COMPACTED SUBGRADE

ONSITE AC PAVEMENT (1 C8.02) N.T.S.

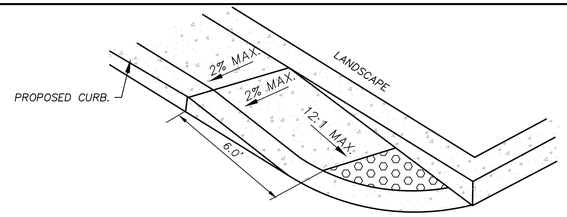



* REFER TO GEOTECHNICAL INVESTIGATION REPORT. FOR PLACEMENT OF COMPACTED SUBGRADE

ONSITE CONCRETE PAVEMENT (2 C8.02) N.T.S.

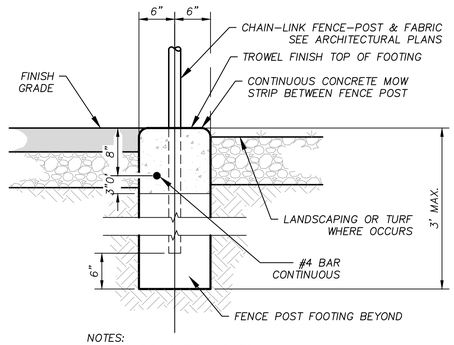



ONSITE TYPE "A" CURB (3 C8.02) N.T.S.



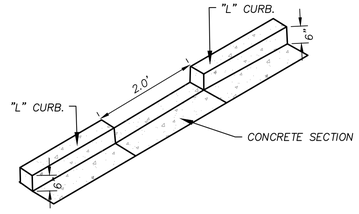

NOTES:
1. RAMP LENGTHS SHALL BE 6'–0" (72") MAXIMUM FOR EACH 6" RISE.
2. RAMP LANDINGS SHALL BE FLAT FOR A MINIMUM OF 5'–0"
3. RAMP CROSS SLOPES SHALL NOT NOT EXCEED 1:48
4. RAMP SLOPES SHALL NOT EXCEED 1:12
5. HEIGHT OF CURBS (OR EDGES ) SHALL NOT EXCEED 6"
6. RAMP CLEAR WIDTHS TO BE 3'–0" MINIMUM
7. RAMP HEIGHTS ARE NOT INTENDED TO EXCEED 6" HEIGHT PER EACH RUN
8. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES TO BE INSTALLED PER CCAUSD NO. 235.

ACCESSIBLE CURB RAMP (4 C8.02) N.T.S.

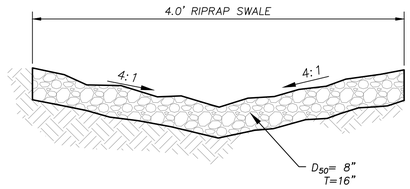



NOTES:
1. PROVIDE CONTROL JOINTS @ 10'–0" O.C

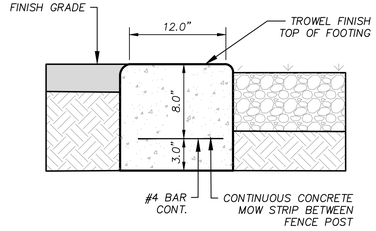
FENCE FOOTING DETAIL (5 C8.02) N.T.S.



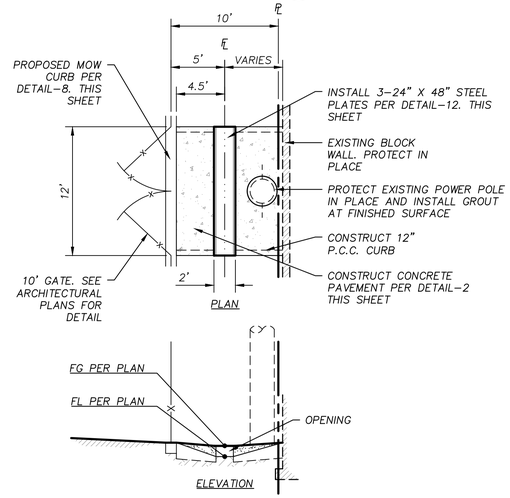

CURB CUT (6 C8.02) N.T.S.



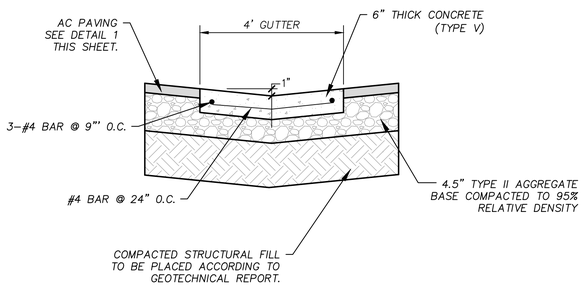

RIPRAP SWALE (7 C8.02) N.T.S.




MOW CURB (8 C8.02) N.T.S.

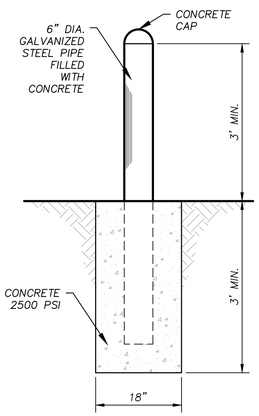



NVE MAINTENANCE ACCESS (9 C8.02) N.T.S.

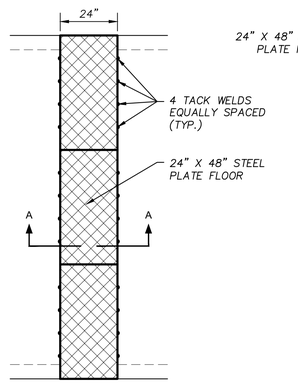



NOTE:
PROVIDE EXPANSION JOINTS @ 30'–0" O.C. AND CONTROL JOINTS @ 5'–0" O.C. IN CONCRETE DRAIN.

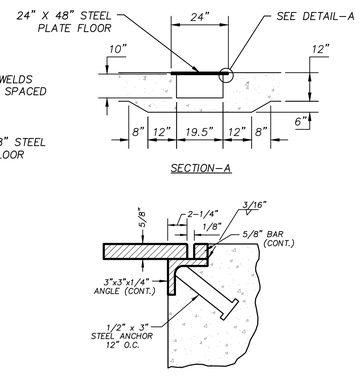
4' CONCRETE GUTTER (10 C8.02) N.T.S.




PIPE BOLLARD DETAIL (11 C8.02) N.T.S.




PLAN




STEEL PLATE FOR MAINTENANCE ACCESS DETAIL (12 C8.02) N.T.S.

## BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58'WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 656,166.6667 FEET (US)
FALSE EASTING: 328,083.3333 FEET (US)
STANDARD PARALLEL SCALE:1.0001
LINEAR UNIT: US SURVEY FOOT (US FT)

## BENCHMARK

CLV BM 06129A10
RIVET & PLATE TOP CURB NE CORNER FAIR A.V. & TONOPAH DR.
ELEVATION: 2067.00 FEET (NAVD88), 630.022 METERS

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 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.

PROFESSIONAL ENGINEER – STATE OF NEVADA – ANTHONY J. ORTIZ – Exp. 12-31-21 – CIVIL – No. 18849 – 6/01/2020

REVISIONS

| REV. | DESCRIPTION | BY | DATE | APPROVAL |
|---|---|---|---|---|

ATKINS
2270 Corporate Circle
Suite 200 Henderson
Nevada 89074 Telephone:
+1.702.263.7275
Fax: +1.702.263.7200

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT
1180 MILLWAY ROBERT LA. HENDERSON, NV 89014 PHONE: 702-799-5010

CLARK COUNTY SCHOOL DISTRICT
CIVIL IMPROVEMENT PLANS FOR:
MABEL HOGGARD ELEMENTARY SCHOOL REPLACEMENT
950 N. TONOPAH DRIVE, LAS VEGAS NEVADA 89106

DETAILS 1

DESIGNED BY: J. CABRERA
DRAWN BY: B. CORDON
CHECKED BY: T. ORTIZ
HORZ.: NONE
VERT.: NONE

JOB NO: 100067217
DATE: 4/10/2020
DRAWING NO. 31/32
C8.02

XXX–XXXXX XXX–XXX

X:\Projects\Land Development\SH Architecture\100067217 – Mabel Hoggard ES– Replacement_Sheet\67217–13–DETL–D1.dwg LAYOUT: C8.02 Jun 01, 2020 – 4:59PM