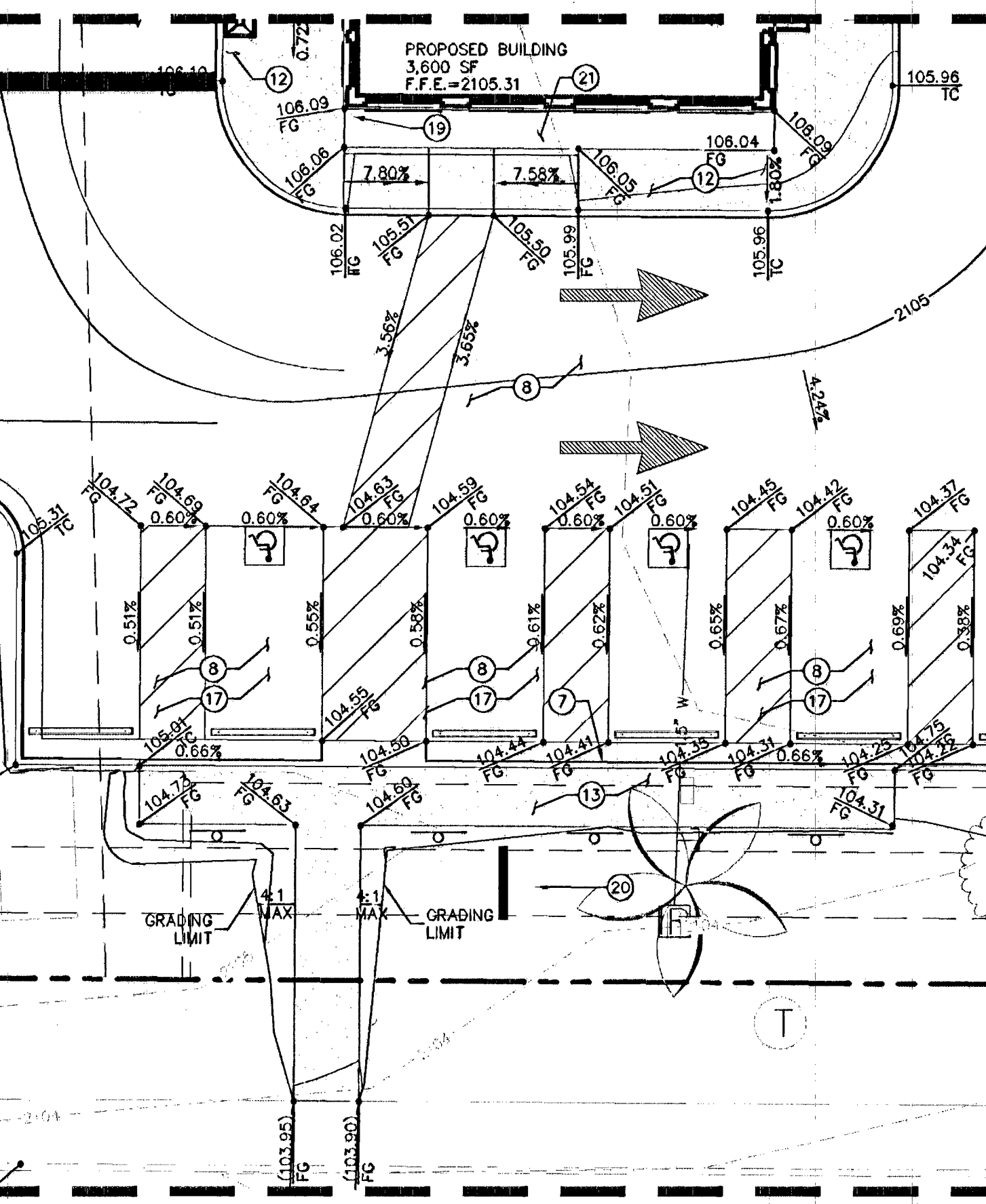
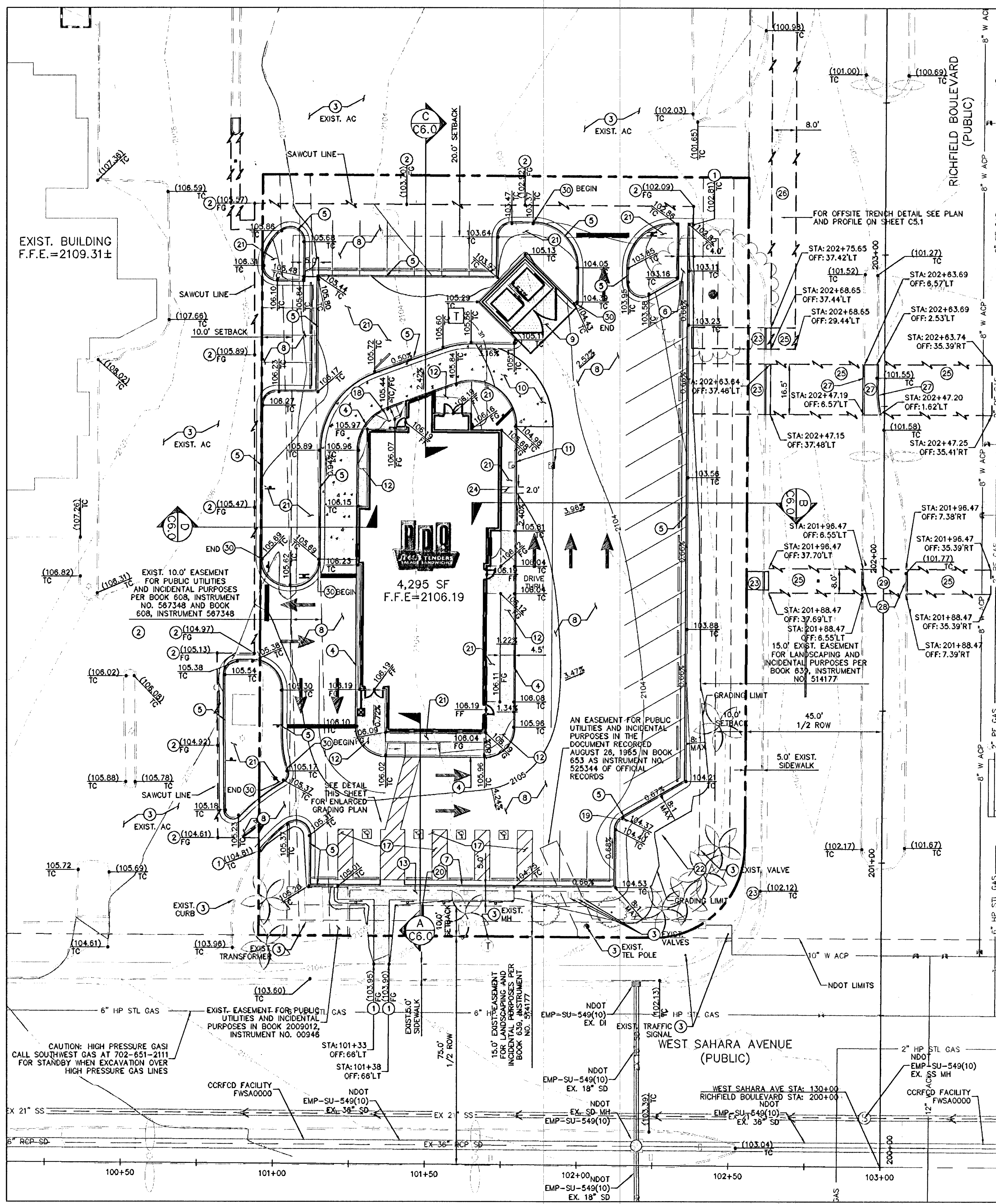


Printed By: Robinson, Sam. Sheet: 2010-0001 - SAHARA - PAVING, GRADING, & DRAINAGE PLAN - 10/15/2014. 08:55:00am. K:\VDR\Drawings\2010\SAHARA\PAVING, GRADING, & DRAINAGE PLAN - 10/15/2014.dwg. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and approval by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



STORMWATER MANAGEMENT NOTES

- 1. STANDARD NOTE NO. 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 THE 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. STANDARD NOTE NO. 2: ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICE 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 THE TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- 3. STANDARD NOTE NO. 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 NVR 100000, SECTION III.A.5.
- 4. STANDARD NOTE NO. 4: AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL EXPOSE 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 INSPECTION MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 100000, SECTION III.A.12.
- 5. STANDARD NOTE NO. 5: ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITH 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.

CONSTRUCTION NOTES

- 1 MATCH EXISTING
- 2 SAWCUT MATCH EXISTING
- 3 PROTECT IN PLACE
- 4 CONSTRUCT MODIFIED TYPE 'A' CURB PER DETAIL 2 ON SHEET C8.1
- 5 CONSTRUCT TYPE 'L' CURB PER CCAUSD NO. 219
- 6 CONSTRUCT CONCRETE 'U' CURB AND GUTTER PER DETAIL 3 ON SHEET C8.1, WIDTH PER PLAN
- 7 CONSTRUCT FLUSH RIBBON CURB PER DETAIL 5 ON SHEET C8.1
- 8 CONSTRUCT AC PAVEMENT: 3" AC PAVING OVER 6" CLASS TYPE II AGGREGATE BASE PER APPROVED GEOTECH REPORT. MATCH EXISTING AT SAWCUT
- 9 CONSTRUCT CONCRETE PAVEMENT: 6.5" PCC OVER 4" CLASS TYPE II AGGREGATE BASE PER APPROVED GEOTECH REPORT
- 10 CONSTRUCT CONCRETE PAVEMENT: 6.5" PCC OVER 4" CLASS TYPE II AGGREGATE BASE PER APPROVED GEOTECH REPORT, "DEEP BLACK" COLORED CONCRETE.
- 11 CONSTRUCT 2'X2' DARK GRAY INTEGRAL CONCRETE PAD. CONTRACTOR TO HAVE ONE UMBRELLA GROUND ANCHOR SET IN CORNER OF SLAB. ALIGN UMBRELLA ANCHOR WITH THE WHITE STRIPE AT THE DRIVE THROUGH LANES
- 12 CONSTRUCT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET C8.1, "AUTUMN BROWN" COLORED CONCRETE. WIDTH PER PLAN
- 13 CONSTRUCT SIDEWALK PER DETAIL 1 ON SHEET C8.1. WIDTH PER PLAN
- 14 ADA PARKING AREA SHALL NOT EXCEED 2% IN ANY DIRECTION
- 15 INSTALL CURB RAMP FOR SERVICE DOOR
- 16 PROPOSED FLAG POLE (BY OTHERS)
- 17 PROPOSED MONUMENT SIGN (BY OTHERS)
- 18 LANDSCAPE AREA. REFER TO LANDSCAPE PLANS
- 19 VERTICALLY ADJUST VALVE AS NECESSARY TO FINISHED GRADE
- 20 REMOVE AND REPLACE TO NEAREST JOINT OF EXISTING SIDEWALK AND CURB/GUTTER FOR TRENCHING. SIDEWALK AND CURB/GUTTER IS TO CONSTRUCTED PER CCAUSD NO. 234 AND CCAUSD NO. 216
- 21 INSTALL 4" THICK CONCRETE ROOF DRAIN DISCHARGE PAD WITH TYPE II AGGREGATE BASE AT 90% COMPACTION. CONCRETE AND BASE MATERIAL ARE TO BE PER CLV STANDARDS AND SPECIFICATIONS. WIDTH PER PLAN. PAD IS TO BE LOCATED AT ROOF DRAIN LOCATION PER ARCHITECTURAL PLAN
- 22 PAVEMENT RESTORATION TRANSVERSE CUT PER CCAUSD NO. 500.5
- 23 PAVEMENT RESTORATION LONGITUDINAL CUT PER CCAUSD NO. 500.4
- 24 CONTRACTOR TO REPLACE MEDIAN AND CURB WITHIN LIMITS OF TRANSVERSE TRENCH. INSTALL MEDIAN (AC MEDIAN) PER TYPICAL SECTION CCAUSD NO. 218 AND INSTALL TYPE "L" ISLAND CURB PER CCAUSD NO. 219
- 25 CONTRACTOR TO REPLACE CURB OF LIMITS OF TRANSVERSE TRENCH. INSTALL ISLAND "L" CURB PER CCAUSD NO. 219
- 26 CONTRACTOR TO REPLACE LANDSCAPE OF LIMITS OF TRANSVERSE TRENCH
- 27 CONTRACTOR TO INSTALL SPILL GUTTER. TRANSITION FROM RETAINING GUTTER TO SPILL GUTTER OVER 5'

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F, AS SHOWN ON THE FIRM INDEX, EFFECTIVE NOVEMBER 18, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY CLV #054702A FOR THIS PROJECT

Richard A. Moles, PE #10381 DATE 12/15/2014

CUT AND FILL QUANTITY ESTIMATE*

FILL	1291 CY
CUT	1280 CY
NET CUT	11 CY

*ESTIMATE QUANTITY CALCULATED USING PROPOSED FINISHED GRADES SHOWN ON THE PLAN. ESTIMATE QUANTITY ONLY TO BE USED AS REFERENCE.

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

Call before you dig. Avoid overhead power line contact. It's costly.

UnderGround 1-702-455-6000

CLARK COUNTY TRAFFIC OPERATIONS 1-702-432-5300

1-800-227-2600

1-702-455-6000

CLARK COUNTY TRAFFIC OPERATIONS

ENGINEER'S NOTES TO CONTRACTOR

- 1. CONTRACTOR TO VERIFY EXISTING IMPROVEMENTS SHOWN ON THE PLAN.
- 2. CONTRACTOR TO PROTECT IN PLACE, DURING DEMOLITION AND CONSTRUCTION, ALL EXISTING IMPROVEMENT THAT ARE TO REMAIN AS NOTED ON THE PLAN.
- 3. ANY EXISTING STRUCTURE, IMPROVEMENT, PLAN, OR APPURTENANCE TO REMAIN THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 4. CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION AND PROTECT IN PLACE UNLESS NOTED ON THE PLANS.
- 5. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS.
- 6. ADD 2000 FEET TO ALL SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
- 7. PROPOSED CONTOURS ARE AT 1:5.
- 8. GRADES IN ADA ACCESSIBLE AREAS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. CONTRACTOR SHALL VERIFY SUITABILITY OF ADA ACCESSIBLE ROUTES PRIOR TO PAVING AND SHALL CONTACT THE ENGINEER IF ANY PROBLEM AREAS ARE DISCOVERED.
- 9. SITE PAVEMENT SECTIONS SHOWN ON THE PLANS ARE REFERENCE ONLY. THE ACTUAL SECTION MUST BE DESIGNED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 USING THE AASHTO MODEL. UPDATED SECTIONS MUST BE BASED ON TRAFFIC COUNTS PROVIDED BY THE CITY AND R-VALUE TEST RESULTS PERFORMED SUBSEQUENT TO GRADING.

GENERAL GRADING INFORMATION

SITE APN: 162-05-403-005
TOTAL ACRES (CLEARING GRUBBING): 0.91 ACRES
EARTHWORK: 11 CY (CUT)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 61 EAST AS SHOWN ON THE AMENDED PLAT OF AMENDED SPANISH OAKS 1, BOOK 17, PAGE 42 IN THE OFFICE OF THE CLARK COUNTY, NEVADA.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NO.12LV11554
RIVET AND PLANT IN TOP OF CURB AT NW CORNER OF RICHFIELD BLVD. AND SAHARA AVE.
ELEVATION: 640.7281M/2102.12 FT. (NAVD 88 DATUM)

Kimley»Horn
6671 LAS VEGAS BOULEVARD SOUTH, SUITE 320
LAS VEGAS, NV 89119
PHONE: 702-862-3500
WWW.KIMLEY-HORN.COM

SAHARA & RICHFIELD PAVING, GRADING, & DRAINAGE PLAN

SAHARA & RICHFIELD PREPARED FOR PDQ

CITY OF LAS VEGAS

NEVADA

SHEET NUMBER 6 OF 10

C4.0

REVISIONS

DATE

BY