Appendix E – Improvement Plans

CIVIL IMPROVEMENT PLANS

FOR

AREA 15 DISTRICT 2

APN: 162-08-303-034, 162-08-702-001, & 162-08-702-002

CITY OF LAS VEGAS, NEVADA

PROJECT CONTACTS

OWNER/DEVELOPER
FISHER BROTHERS LAS VEGAS LLC
299 PARK AVENUE
NEW YORK, NEW YORK 10170

CONTACT: KYLE SUTHERLAND
(212)-940-6857

PROJECT ARCHITECT
KGA ARCHITECTURE
9075 W DIABLO DRIVE, SUITE 300
LAS VEGAS, NEVADA 89148

CONTACT: LEE NORSWORTHY
(702)-367-6900

PROJECT SURVEYOR
HERITAGE SURVEYING
1895 VILLAGE CENTER CIRCLE
LAS VEGAS, NEVADA 89134

CONTACT: DENNIS LAYTON, PLS
(702)-474-6277

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD SOUTH, SUITE 320
LAS VEGAS, NEVADA 89119

CONTACT: THOMAS ACKERET, P.E., PTOE
(702)-862-3608

PROJECT INFORMATION

NUMBER OF LOTS: 3

ACREAGE: ±11.06

PROJECT AREA: ±11.06 ACRES

ZONING: INDUSTRIAL DISTRICT (M)

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SUBJECT SITE LIES WITHIN ZONE "X" OF FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD FLOODPLAIN".

BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "0LV118SSW6"

CITY OF LAS VEGAS PIN AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF DESERT INN ROAD AND POLARIS AVENUE NEAR THE PC OF DESERT INN ROAD.

ELEVATION = 650.346 METERS
2133.676 FEET

CONVERSION TO CLV VERTICAL CONTROL (NAVD88)
ELEVATION = 650.346+0.024m=650.37 METERS
2133.676+0.074'=2133.75 FEET
SEE SHEET C0.01 FOR ADDITIONAL INFORMATION

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

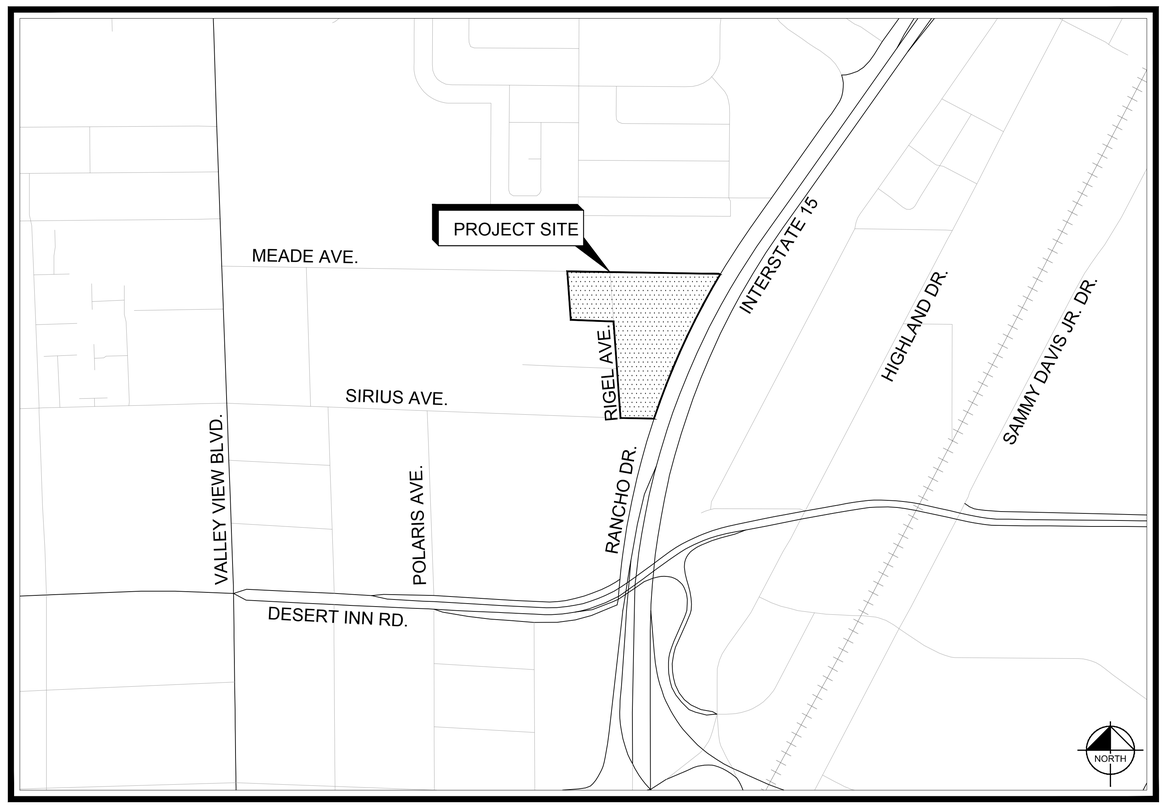
NORTH 87°51'18" WEST, BEING THE BEARING ALONG THE SOUTH LINE OF THE NORTH HALF OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AND BEING THE CENTERLINE OF SIRIUS AVENUE AS MEASURED BETWEEN VALLEY VIEW BOULEVARD AND RIGEL AVENUE AS SHOWN IN FILE 196, PAGE 060 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE.

UTILITY NOTE

KIMLEY-HORN AND ASSOCIATES TAKES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN HEREIN. THE EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY-OTHER PARTIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY THE LOCATIONS AND INVERTS OF THE EXISTING WITHIN THE VICINITY OF CONSTRUCTION ACTIVITIES. IF A CONFLICT IS FOUND TO EXIST, THE CONTRACTOR SHALL COORDINATE THE PROJECT ENGINEER, PROJECT ARCHITECT, AND THE OWNER IMMEDIATELY.

SHEET INDEX

SEE SHEET C0.03 FOR SHEET INDEX.



PROJECT VICINITY MAP

NTS

APPROVALS

CITY OF LAS VEGAS CITY ENGINEER DATE

CITY OF LAS VEGAS DEPARTMENT OF COMMUNITY DEVELOPMENT DATE

CLV FIRE AND RESCUE DATE

LUMEN (DOING BUSINESS AS CENTURYLINK) DATE

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

NV ENERGY - DISTRIBUTION DATE

NV ENERGY ACKNOWLEDGES THAT 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 PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

SOUTHWEST GAS CORPORATION SWG UID DATE

COX COMMUNICATIONS LAS VEGAS, INC. DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No._____ FIRST APPROVED DATE: _____

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: XX.XXX.
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

Call before you DIG
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-642-2444

Avoid overhead power line contact. It's costly.
Call Before You Overhead
1-702-227-2929

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD S, SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

Digitally signed by Thomas Ackeret
DN: C=US, E=Thomas.Ackeret@Kimley-Horn.com, O=Kimley-Horn and Associates, Inc., OU=Las Vegas Office, CN=Thomas Ackeret
Reason: I am approving this document
Date: 2022.11.17 07:14:07 -08'00'

PROFESSIONAL ENGINEER
THOMAS ACKERET
Exp. 12/31/22
CIVIL
No. 18592
STATE OF NEVADA

11/16/2022

KHA PROJECT	
092365011	
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

COVER SHEET

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

1 OF 35 SHEETS

C00.01

Plotted By:Durow, Justin Sheet Set:Khs Layout:C00.01 November 17, 2022 07:14:36pm K:\Las_civil\092365012 - grep 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092365012 - GN.dwg
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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 OFF-SITE 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 AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS 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. 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
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 INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & 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.
16. WALL NOTES: 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.

OR

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

SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN 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. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

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

REVISED 06/04/2018

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

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. LUMINAIRES SHALL BE MARKED TO INDICATE INSTALLATION ORENTATION, AND SHALL HAVE EXTERNAL LABELS PER ANSI C136 THAT INDICATE WATTAGE AND ARE CLEARLY VISIBLE FROM STREET LEVEL.
4. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
5. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.
6. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN No. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
7. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
8. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
9. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.

CITY OF LAS VEGAS STREETLIGHT NOTES (CONTINUED)

10. NEW STREELIGHT SERVICES SHALL BE 200 AMP PADMOUNT AND SHALL PROVIDE CAPACITY FOR 20 OR 24 AVAILABLE CIRCUITS.
11. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
12. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISED MA 19, 2020 (LD VERSION)

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
CALL-BEFORE-YOU-DIG 1-800-227-2600
STREETLIGHTS 1-702-229-6331
F.A.S.T. 1-702-432-5300
3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS. BRACKET MOUNTED (SIDE-MOUNTED) VEHICLE SIGNAL ASSEMBLIES WITH 2 OR MORE SIGNAL HEADS SHALL HAVE AN ADDITIONAL ELBOW AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 AND SHOWN AS OPTION B IN UNIFORM STANDARD DRAWING NUMBER 844, AND SHALL HAVE A MENERALLAC SUPPORT AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 IF ONE OF THE SIGNAL HEADS CONTAINS 4 OR MORE SIGNAL MODULES.
4. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT AND SHALL HAVE A CAPACITY OF 20 OR 24 CIRCUITS.
5. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE L.E.D. AS APPROVED BY THE CITY OF LAS VEGAS (CLV). DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS. INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING NUMBER 300.S3. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THE CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.
7. LUMINAIRES SHALL BE MARKED TO INDICATE INSTALLATION ORIENTATION, AND SHALL HAVE EXTERNAL LABELS PER ANSI C136.15 THAT INDICATE WATTAGE AND ARE CLEARLY VISIBLE FROM STREET LEVEL. TRAFFIC SIGNAL LUMINAIRES INSTALLED ADJACENT TO RESIDENTIAL HOUSING SHALL BE INSTALLED WITH MANUFACTURER PROVIDED HOUSE-SIDE SHIELDS.
8. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623 T.02.16 OF THE SPECIAL PROVISIONS.
9. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
10. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 705, NO. 706, AND NO. 707.
11. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
12. PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA iNAVIGATOR" TYPE (2-WIRE PEDESTRIAN PUSHBUTTON SYSTEM WITH iN2 PUSH BUTTON STATIONS AND SHELF-MOUNT BIU CONTROL UNIT WITH SDLC CABLE) IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-3e PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AS MODIFIED BY THE MANUFACTURER TO FIT ON A 9"X12" SIGN, AND SHALL BE PORCELAIN-ENAMELED METAL. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1-4) LATEST EDITION. WHEN AN EXISTING SIGNAL WITH EXISTING AUDIBLE-TACILE PUSHBUTTONS IS MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE AND MODEL OF ANY EXISTING EQUIPMENT SCHEDULED TO REMAIN, TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL AND ANY REQUIRED HARNESSES, TO PROVIDE A FULLY FUNCTIONING SYSTEM.
13. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
14. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD. WHERE FLASHING YELLOW ARROW LEFT TURN SIGNALS ARE USED, A MAST ARM R10-12F "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE MOUNTED ADJACENT TO THE M-4 SIGNAL HEAD.
15. TRAFFIC SIGNAL CABINET SHALL BE A TYPE VIII CABINET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS AND THE CITY OF LAS VEGAS SPECIAL PROVISIONS AND SHALL BE A NEMA TS2-TYPE2 CABINET. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS. THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE EQUIPPED WITH 16 LOAD BAY POSITIONS AND SHALL BE A 64 DETECTOR CHANNEL R CABINET WITH RACK-MOUNTED DETECTION. THE CABINET SHALL CONTAIN A 764 OPTICOM PHASE SELECTOR, WITH A 768 AUXILIARY INTERFACE PANEL MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. THE CABINET SHALL BE EITHER: MODEL R-44 CAB, TS2-2, LAS VEGAS, 64CH DET, PART # M73650 FROM MCCAIN, INC.; MODEL MOBOTREX LAS VEGAS TS2-TYPE2 16 POS., 64 CH. DET, DRAWING # TF4216TLV01 REV 3 FROM SIERRA TRANSPORTATION AND TECHNOLOGIES; OR MODEL TS2-2 HW 16 POSITION HORIZONTAL CITY OF LAS VEGAS CABINET, PART # 34413G12-02-06 FROM ECONOLITE CONTROL PRODUCTS, INC. ALL CABINETS SHALL BE PROVIDED WITH A COMPLETE SET OF FOUR BUS INTERFACE UNITS, POWER SUPPLY AND SDLC CABLES TO PROVIDE A FULLY FUNCTIONING SYSTEM. CABINET POWER SUPPLIES SHALL BE RENO A&E MODEL CPS-TS2-LED, PEEK MODEL PS101, OR ECONOLITE PS-200. BIU'S SHALL BE RENO A&E MODEL 1240, PEEK MODEL BUS INTERFACE UNIT 82-1886-01, OR ECONOLITE PART # 160-1018-501.
16. THE CONTRACTOR SHALL SUPPLY A MALFUNCTION MANAGEMENT UNIT (MMU) AND TRAFFIC SIGNAL CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP A MINIMUM OF FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON OR PRIOR TO CONVERTING TO A NEW PHASING SCHEME, FOR TESTING AND PROGRAMMING PURPOSES. THE CONTROLLER SHALL BE A NAZTEC 980 ATC TS2 TYPE 2 NTCIP COMPLIANT SIGNAL CONTROLLER WITH INTSTALLED AND LICENSED APOGEE CONTROLLER SOFTWARE, LATEST VERSION, AND THE MMU SHALL BE A MODEL MMU-1600GE AS MANUFACTURED BY RENO A&E., OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND MMU TO AND PICKUP THE CONTROLLER AT 2985 RONEMUS DRIVE. CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING FIELD OPERATIONS (702-229-6331) SEVEN DAYS PRIOR TO PICK UP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL MMU FOR INITIAL TURN-ON, IN WHICH CASE CITY PERSONNEL WILL SWAP THE MMU AFTER THE PROJECT IS ACCEPTED.
17. CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.
18. ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 808 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.
19. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS AND TO SECTION 623 OF THE CCA USS. ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON", "HAND", AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #JXM-400-VIEIL OR DIALIGHT MODEL #430-6479-001X, OR APPROVED EQUAL. THE "COUNTDOWN" MESSAGE SHALL NOT FLASH. WHERE EXISTING SIGNALS ARE MODIFIED, THE CONTRACTOR SHALL VERIFY THAT LED PEDESTRIAN INDICATIONS FOR A SPECIFIC PHASE ARE OF THE SAME MANUFACTURE SO THAT THEY FUNCTION CORRECTLY, OR SHALL REPLACE ALL COUNTDOWN PEDESTRIAN INDICATIONS FOR THAT PHASE.
20. VIDEO DETECTION SYSTEMS SHALL BE TS2 COMPATIBLE AND SHALL INPUT DETECTOR CALLS TO THE CONTROLLER THROUGH AN SDLC CABLE. SYSTEMS WILL BE EITHER ITERIS EDGE 2-1IN PROCESSORS WITH VRACK5-PS, EDGE2-TS2-IM-PAK AND EDGECONNECT PAK, (IP ADDRESSABLE); PEEK VIDEOTRAK IQ (WITH ETHERNET PORT AND SDLC); ECONOLITE AUTOSCOPE VISION SYSTEM WITH COMM MANAGER AND MINI DETECTION PROGRAMMING KIT MOUNTED IN THE CABINET; OR TRAFICON VIP WITH VIEWCOM (IP ADDRESSABLE) AND PIM (SDLC). WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS. ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE", KEYPAD OR LAPTOP COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCs) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (COLOR FLAT SCREEN) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER AND VIDEO CABLE DIRECTLY FROM THE CABINET. COAXIAL CABLE WILL BE TYPE 8281 (SOLID CENTER CONDUCTOR). CAMERAS THAT USE A PREFABRICATED CABLE INTEGRATING POWER AND VIDEO INTO A SINGLE WEATHERPROOF CONNECTOR ARE ACCEPTABLE. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. VIDEO CAMERAS SHALL BE COLOR AND SHALL BE MOUNTED ON A MINIMUM 6 FOOT RISER ON THE SIGNAL MAST ARM WITH EXTENSION BRACKETS (TYPE AG-0175-74-62 OR EQUIVALENT). THE LOCATION OF THE CAMERA ON THE MAST ARM SHALL BE APPROVED BY THE TEFO TRAFFIC SIGNAL SUPERVISOR. A VIDEO FILTER (CX06-BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT WHEN COAX IS USED. VIDEO DETECTION PROCESSORS AND COMMUNICATIONS CARDS SHALL BE PROVIDED WITH THE LATEST VERSIONS OF THE MANUFACTURER'S SOFTWARE. THE CONTRACTOR SHALL AIM CAMERAS AND PROGRAM AND CONFIGURE THE VIDEO DETECTION PROCESSORS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
21. WHERE NEW LOOPS WILL BE OVERLAID WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E LOOP SYSTEMS AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAID WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623 T.02.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
22. OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 OPTICOM PHASE SELECTOR INSTALLED IN A MODEL 760 RACK WITH A MODEL 768 AUXILIARY INTERFACE PANEL (AIP) MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. OPTICAL SENSORS WILL BE MODEL 721 WITH ONE DETECTOR PER DIRECTION, UNLESS SHOWN OTHERWISE IN THE PLANS, AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE. THE SOUTHBOUND OPTICOM DETECTOR SHALL BE WIRED TO INPUT PREEMPTS ON CHANNEL 1 IN THE PHASE SELECTOR, EASTBOUND ON CHANNEL 2, NORTHBOUND ON CHANNEL 3, AND WESTBOUND ON CHANNEL 4, UNLESS VARIATIONS ARE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. WHEN 764 PHASE SELECTORS ARE ADDED TO A CABINET WITHOUT A 768 AIP, THE CONTRACTOR SHALL INSTALL AND WIRE A NEW 768 AIP.
23. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
24. INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.
25. THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.
26. WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
27. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623 G.03.01N OF THE CLV SPECIAL PROVISIONS.

REVISED DECEMBER 1, 2021

LAS VEGAS FIRE & RESCUE - GENERAL 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 RADIUS. IFC § 503.2.4
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
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 DEAD-ENDS OR A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. CLV REGULATION AND MOU
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT 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 SYSTEM. IFC § 503.6
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS 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

REVISED: FEBRUARY 4, 2019

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.
11. SEWER SERVICES AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCEL AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRE TO PROVIDE SEPARATE SEWER SERVICES TO EACH.

REVISED 09/16/20

SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES

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

SOUTHWEST GAS CORPORATION SWG UID DATE

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

LVVWD PROJECT # TBD

1. NO WORK SHALL BEGIN UNTIL THE PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

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

15. NO LEAD COMPLIANCE NOTE:

TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. TBD FIRST APPROVED DATE: __.__

STORMWATER MANAGEMENT NOTES

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 AND 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, SITE STABILIZATION REQUIREMENTS, SCHEDULES, AND DEADLINES.
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, INSPECTIONS SECTION.
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.
6. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL RESPOND TO STORMWATER INSPECTION CORRECTIVE ACTIONS IN THE MANNER PRESCRIBED BY CLARK COUNTY, INCLUDING BUT NOT LIMITED TO PROVIDING PHOTOS AND DESCRIPTIONS OF THE CORRECTIONS COMPLETED BY THE CONTRACTOR OR HIS AGENT.

LEGEND

- GRADE BREAK
- LIMITS OF CONSTRUCTION/SAWCUT LINE
- RIGHT OF WAY LINE
- CENTERLINE
- SIGHT VISIBILITY ZONE (SVZ)

EXISTING	PROPOSED	DESCRIPTION
		EASEMENT
2000	2000	CONTOUR MAJOR
2000	2000	CONTOUR MINOR

ABBREVIATIONS

@	AT	LID	LOW IMPACT DESIGN
AB	AGGREGATE BASE	LF	LINEAR FEET
AC	ASPHALTIC CONCRETE	LT	LEFT
AVE	AVENUE	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
BC	BACK OF CURB	MAX	MAXIMUM
BCR	BEGIN CURB RETURN	MEP	MECHANICAL, ELECTRICAL AND PLUMBING
BLVD	BOULEVARD		
BM	BENCHMARK	MH	MANHOLE
BVC	BEGIN VERTICAL CURVE	MIN	MINIMUM
BW	BOTTOM OF WALL	N	NORTH
B/S	BACKSIDE	NTS	NOT TO SCALE
CALC	CALCULATED	N/S	NORTH/SOUTH
CC	CLARK COUNTY	OC	ON CENTER
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	P.A.E.	PUBLIC ACCESS EASEMENT
		PC	POINT OF CURVATURE
CL	CENTERLINE	PCC	POINT OF COMPOUND CURVATURE
CONN	CONNECTION	PR	PROPOSED
CTV	CABLE TELEVISION	PRC	POINT OF REVERSE CURVATURE
CY	CUBIC YARD	PT	POINT OF TANGENCY
Δ	DELTA (DIFFERENCE) / ANGLE	PVC	POLYVINYL CHLORIDE
D	DEPTH	PVI	POINT OF VERTICAL INFLECTION
DG	DECOMPOSED GRANITE	R	RADIUS
DI	DUCTILE IRON	RCB	REINFORCED CONCRETE BOX
E	EAST	RCP	REINFORCED CONCRETE PIPE
EA	EACH	RT	RIGHT
ECR	END CURB RETURN	R/W	RIGHT OF WAY
ELEV	ELEVATION	S	SOUTH
ELEC	ELECTRICAL	SD	STORM DRAIN
EOP	EDGE OF PAVEMENT	SF	SQUARE FOOT OR FEET
EVC	END VERTICAL CURVE	SS	SANITARY SEWER
EX.	EXISTING	SSMH	SANITARY SEWER MANHOLE
E/W	EAST/WEST or EACH WAY	ST	STREET
F-F	FACE OF CURB TO FACE OF CURB	STL	STEEL
FG	FINISHED GROUND	STD	STANDARD
FH	FIRE HYDRANT	SY	SQUARE YARDS
FS	FINISHED SURFACE	TC	TOP OF CURB
FL	FLOWLINE	TG	TOP OF GRATE
FT	FOOT or FEET	TYP	TYPICAL
GB	GRADE BREAK	TW	TOP OF WALL
H	HEIGHT	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
HDPE	HIGH-DENSITY POLYETHYLENE		
HP	HIGH POINT		
INT	INTERSECTION	VERT	VERTICAL
INV	INVERT	W	WEST OR WATER
L	LENGTH	WL	WATERLINE
LA	LANDSCAPE ARCHITECT	WTR	WATER
		±	PLUS OR MINUS

No.	REVISIONS	DATE	BY

Kimley»Horn

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6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER STATE OF NEVADA — THOMAS ACKERET — Exp. 12/31/22 — CIVIL — No. 18592

11/16/2022

KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
092965011	11/16/2022	AS SHOWN	TEA	TEA	TEA

GENERAL NOTES

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

2 OF 35 SHEETS

C00.02

Plotted By: Duevel, Justin Sheet Set: Kha Layout: C00.02 November 17, 2022 07:14:38am K:\lav_civil\092965012 – area 15 district 2 (fisher brothers)\CAD\plansheets\d2 plansheets\092965012 – GN.dwg
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CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC). IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

SHEET INDEX

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35	C03.23	GRADING DETAILS					

CCWRD SANITARY SEWER GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS, LATEST EDITION AND THE UNIFORM STANDARDS FOR PUBLIC WORKS OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION.
2. ANY CONFLICTS BETWEEN THESE DOCUMENTS AND THE STANDARDS REFERENCED IN NOTE 1 MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO PERFORMING ANY WORK.
3. ALL REVISIONS OF THE APPROVED PLANS MUST BE SUBMITTED TO THE CLARK COUNTY WATER RECLAMATION DISTRICT (DISTRICT) FOR REVIEW AND BE APPROVED PRIOR TO PROCEEDING WITH THE WORK. ALL WORK CONSTRUCTED WITHOUT THE APPROVAL OF THE DISTRICT MUST BE REMOVED AT THE CONTRACTORS EXPENSE.
4. ALL SANITARY SEWERS SHALL BE PVC SDR-35 SOLID WALL UNLESS OTHERWISE NOTED.
5. ALL SANITARY SEWER MAINS 8-INCHES AND LARGER AND ALL STUBS 8 INCHES AND LARGER ENTIRELY WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PUBLIC UNLESS OTHERWISE NOTED. ALL ON SITE SEWER INFRASTRUCTURE SHALL BE PRIVATE UNLESS OTHERWISE NOTED.
6. ALL SANITARY SEWER MAINS SHALL BE THE SAME MATERIAL, SIZE, & SLOPE BETWEEN MANHOLES.
7. ALL SEWER MAINS SHALL BE IN THEIR OWN TRENCHES. THERE WILL BE NO SHARED TRENCHES ALLOWED.
8. THE MINIMUM SLOPES FOR ALL PIPES SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
9. ALL SANITARY SEWER MANHOLES MUST BE LOCATED SUCH THAT THEY ARE ACCESSIBLE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
10. A DEBRIS TRAP MUST BE INSTALLED IN THE EXISTING SYSTEM AT THE POINT OF CONNECTION IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
11. ALL EXISTING MANHOLE CORROSION PROTECTION SYSTEMS MUST BE RESTORED TO THEIR ORIGINAL CONDITION, IF MODIFIED.
12. LOCATOR RIBBON AND MARKER BALLS SHALL BE PLACED ABOVE ALL NEW SEWER MAINS AND LATERALS IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
13. ALL EXISTING GRADE MUST BE RAISED TO WITHIN 18-INCHES OF FINAL GRADE PRIOR TO ANY SEWER TRENCHING.
14. PRIVATE SANITARY SEWER NOT REVIEWED OR APPROVED BY CCWRD.

I CERTIFY THAT THE ONLY DEVIATIONS FROM THE DESIGN AND CONSTRUCTION STANDARDS THAT ARE APPROVED BY THE CCWRD ARE LISTED BELOW:

- NONE

THOMAS ACKERET, P.E. #018592 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: XX.XX
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

ENGINEER'S ESTIMATE OF PUBLIC UTILITY QUANTITIES

PUBLIC WATER QUANTITIES		
ITEM	PUBLIC QUANTITY	UNIT TYPE
	–	LF
	–	LF
	–	EA
	–	EA

SANITARY SEWER QUANTITIES				
ITEM	PUBLIC QUANTITY	UNIT TYPE	PRIVATE QUANTITY	UNIT TYPE
	–	LF	–	LF
	–	LF	–	LF
	–	EA	–	EA
	–	EA	–	EA
	–	EA	–	EA

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL, SIGNCONDUITS AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY
CALL BEFORE YOU DIG UNDERGROUND
Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION PAINTS

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-642-2444

Avoid overhead power line contact. It's costly.
Call Before You Overhead 1-702-227-2929

No.	REVISIONS	DATE	BY

Kimley»Horn
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PROFESSIONAL ENGINEER THOMAS ACKERET Exp. 12/31/22 CIVIL No. 18592 STATE OF NEVADA

11/16/2022

KHA PROJECT 092965011
DATE 11/16/2022
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY TEA
CHECKED BY TEA

GENERAL NOTES, LEGEND, & ABBREVIATIONS

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC NEVADA
CITY OF LAS VEGAS

3 OF 35 SHEETS
C00.03

Posted By:Duevel, Justin Sheet Set:Kmp Layout:C01.01 November 17, 2022 07:15:21am K:\lav_civil\09295012 area 15 district 2 (fisher brothers)\CAD\plansheets\d2 plansheets\d2 plansheets\09295012 area 15 district 2 (fisher brothers) C01.01.dwg
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APN: 162-08-301-023
OWNER: 3100 MEADE AVE L L C
(NOT A PART)

APN: 162-08-701-002
OWNER: FISHER BROTHERS
LAS VEGAS L L C
(NOT A PART)

APN: 162-08-701-003
OWNER: FISHER BROTHERS
LAS VEGAS L L C
(NOT A PART)

APN: 162-08-701-004
OWNER: PARADISE
LAS VEGAS L L C
(NOT A PART)

EX. PAVEMENT

EX. SSMH

EX. UTILITY APPERTENANCE

EX. SSMH

192+28.98 MEADE AVE = 11+22.62 RIGEL AVE

EX. STREETLIGHT

EX. PAVEMENT

EX. FIRE HYDRANT

EX. SIDEWALK

EX. CURB AND GUTTER

EX. UTILITY APPERTENANCE

MEADE AVE
(PUBLIC - PAVED)

EX. STREETLIGHT

192+00 193+00 194+00 195+00 196+00

EX. UTILITY APPERTENANCE

STA:11+04.56
OFF: 0.00

11+00

EX. STREETLIGHT

SEE SHEET C01.07 FOR DEMOLITION DETAILS

RIGEL AVE
(PUBLIC - PAVED)

10+00

EX. STREETLIGHT

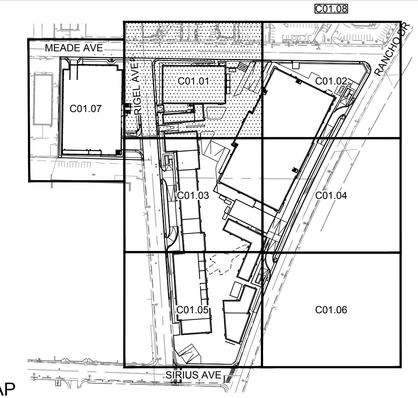
9+00

(TYP)

SEE SHEET C01.02

MATCHLINE - SEE SHEET C01.03

C01.08



KEY MAP

NTS

GENERAL NOTES

1. REFER TO SHEET C0.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
5. THE CONTRACTOR SHALL PROTECT IN PLACE EX. IMPROVEMENTS, THAT ARE NOTED TO REMAIN, DURING DEMOLITION AND CONSTRUCTION.
6. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND PROTECT IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.
7. ANY EXISTING STRUCTURE(S), IMPROVEMENT(S), AND/OR APPURTENANCE(S) TO REMAIN, WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION, SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.

DEMOLITION NOTES

1. REMOVE EXISTING ASPHALT SECTIONS TO DEPTH NEEDED FOR PROPOSED STRUCTURAL SECTION (LIMITS AS NOTED ON PLAN).
2. REMOVE EXISTING CONCRETE.
3. REMOVE EXISTING CURB TO NEAREST JOINT, LIMITS AS SHOWN ON PLANS.
4. REMOVE EXISTING SIDEWALK TO NEAREST JOINT, LIMITS AS SHOWN ON PLAN.
7. REMOVE EXISTING FENCE, INCLUDING GATES WHERE APPLICABLE.
11. REMOVE EXISTING BOLLARDS.
15. REMOVE EXISTING DRIVEWAY.
17. REMOVE EXISTING LANDSCAPE AREA.
18. REMOVE EXISTING LIGHT. REMOVE FOUNDATION IN ITS ENTIRETY.
20. REMOVE/RELOCATE UTILITY APPERTENANCE PER UTILITY PLANS.
22. PROTECT EXISTING UTILITY APPERTENANCE AND ADJUST TO GRADE.
BD. DEMOLISH BUILDING, SEE BUILDING DEMOLITION PLANS FOR DETAILS.
PIP. PROTECT IN PLACE.
SC. SAWCUT LINE/MATCH EXISTING.

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: XX.XXX
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. TBD FIRST APPROVED DATE: -
LVVWD APPROVED FIRE FLOW: TOTAL X,XXX GPM/ONSITE X,XXX GPM

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CONVERSION TO CLV VERTICAL CONTROL (NAVD88)
ELEVATION = 635.481+0.024m=635.505 METERS
2084.91+0.074'=2133.984 FEET
SEE SHEET C0.01 FOR ADDITIONAL INFORMATION

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SOUTHWEST GAS CORPORATION SWG UID DATE

CITY OF LAS VEGAS FIRE AND RESCUE DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-642-2444

Call Before You Overhead
Avoid overhead power line contact. It's costly.
1-702-227-2929

Call before you UnderGround
1-702-432-5300
NEVADA 811 REGIONAL SYSTEM OF TRANSPORTATION (NART)

No.	REVISIONS	DATE	BY

Kimley»Horn
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6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3000
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

DEMOLITION PLAN - SHEET 1

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

4 OF 35 SHEETS
C01.01

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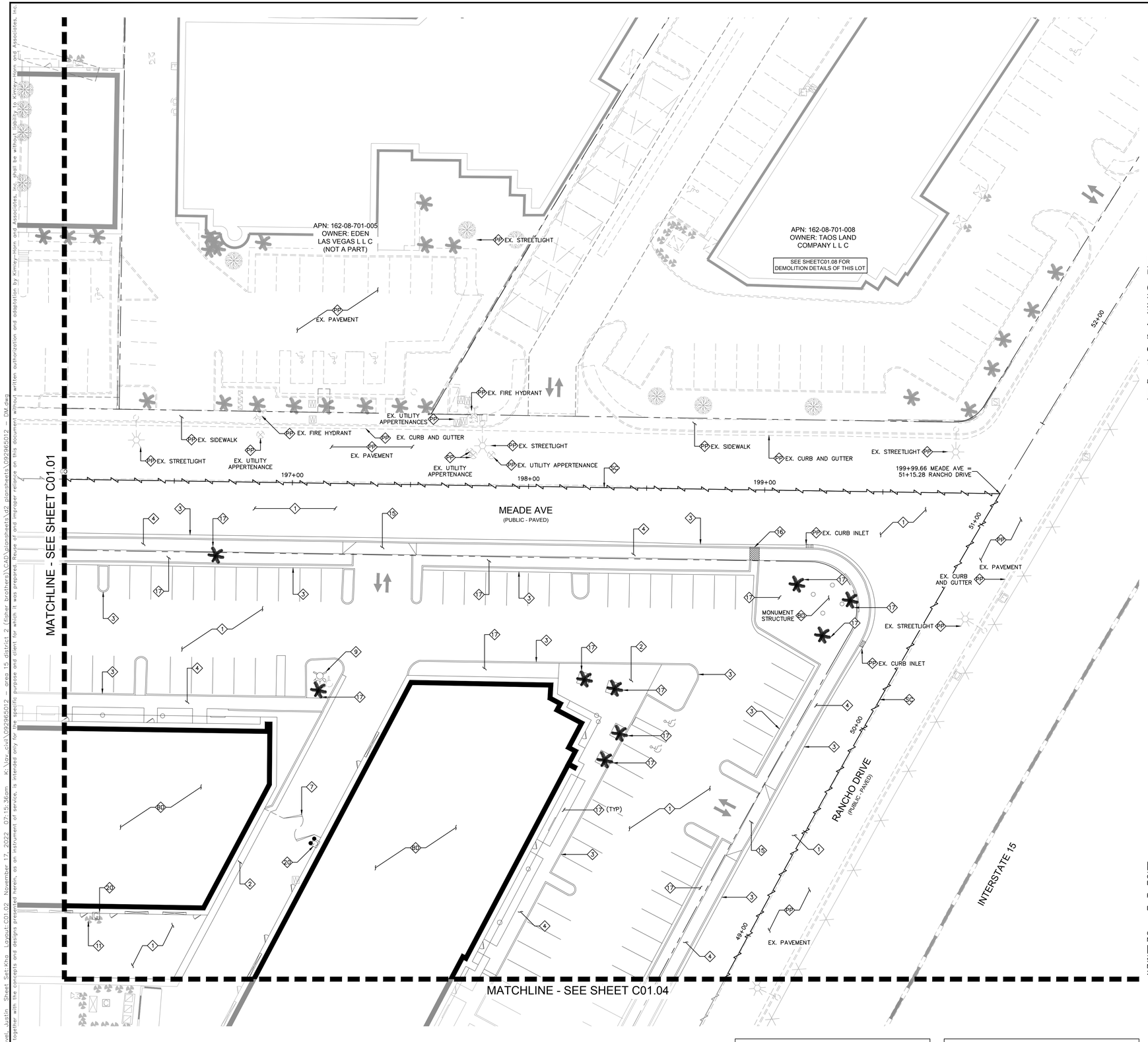
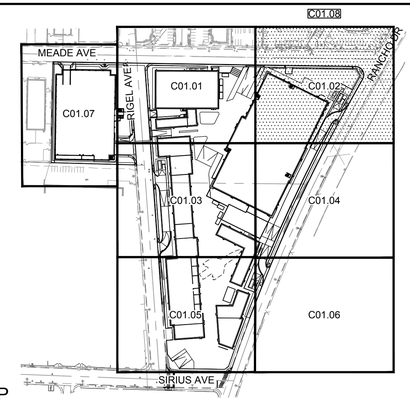
Plotted By:Durell, Justin Sheet Set:Kha Layout:C01.02 November 17, 2022 07:15:36pm K:\Dev_civil\092965012 - DM.dwg





KEY MAP
NTS

GENERAL NOTES
1. REFER TO SHEET C0.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
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4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
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BD. DEMOLISH BUILDING, SEE BUILDING DEMOLITION PLANS FOR DETAILS.
PP. PROTECT IN PLACE.
SC. SAWCUT LINE/MATCH EXISTING.

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: XX.XXX
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. TBD FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW: TOTAL X,XXX GPM/ONSITE X,XXX GPM

BENCHMARK
CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118EE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CONVERSION TO CLV VERTICAL CONTROL (NAVD88)
ELEVATION = 635.481+0.024m=635.505 METERS
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GRAPHIC SCALE IN FEET
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No.	REVISIONS	DATE	BY

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THOMAS E. ACKERET
No. 18592
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CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT	092965011
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SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

DEMOLITION PLAN - SHEET 2

AREA 15 DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

5 OF 35 SHEETS
C01.02

Plotted By:Duevel, Justin Sheet Set:Kmp Layout:C01.03 November 17, 2022 07:15:50am K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plotsheets\c02 plotsheets\092965012 - DM.dwg
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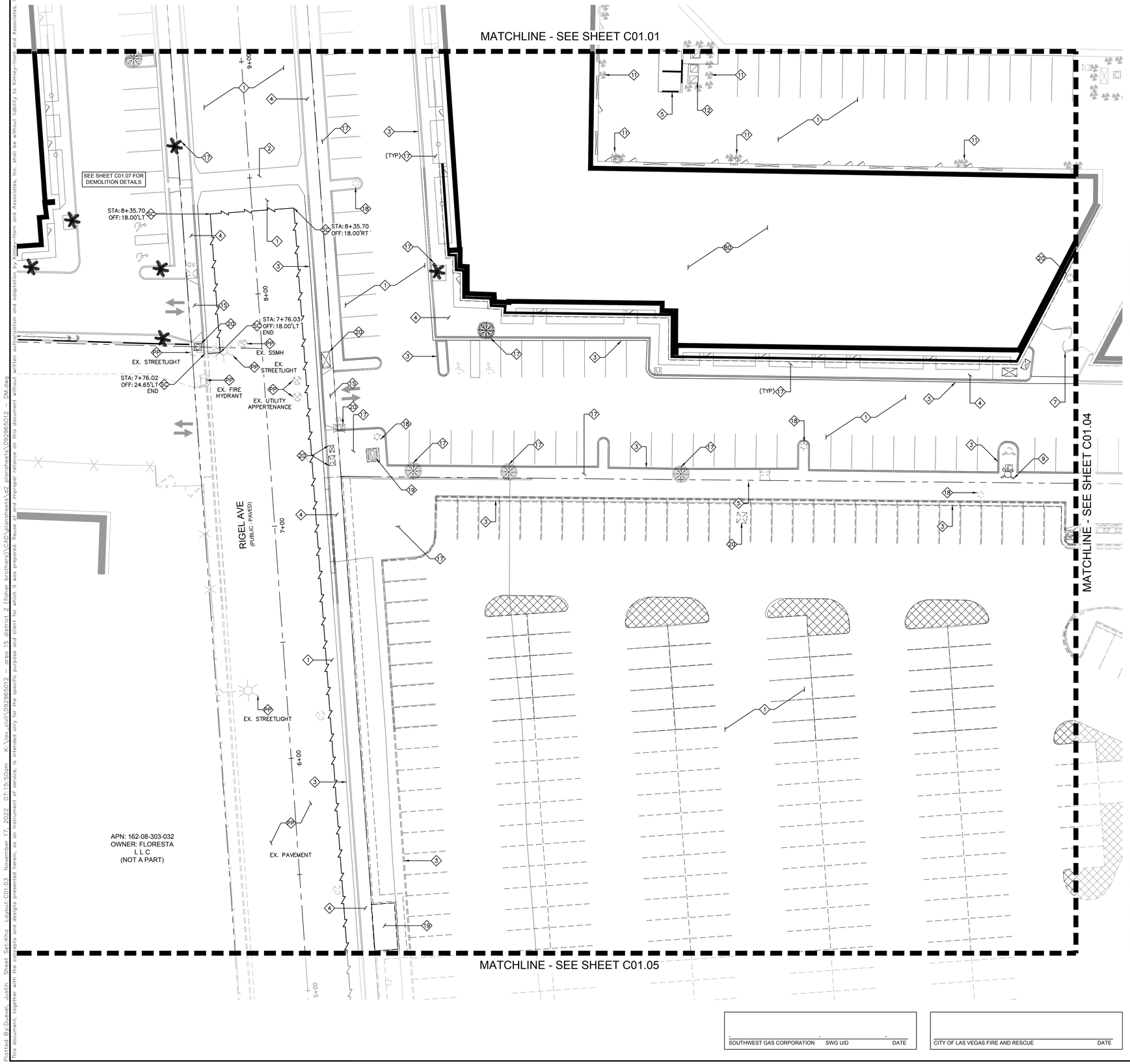

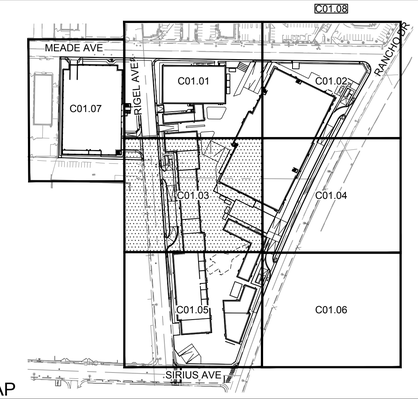

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17. REMOVE EXISTING LANDSCAPE AREA.
18. REMOVE EXISTING LIGHT. REMOVE FOUNDATION IN ITS ENTIRETY.
19. REMOVE/RELOCATE EXISTING WATER METERS PER W SHEETS.
20. REMOVE/RELOCATE UTILITY APPERTENANCE PER UTILITY PLANS.
BD. DEMOLISH BUILDING, SEE BUILDING DEMOLITION PLANS FOR DETAILS.
PP. PROTECT IN PLACE.
SC. SAWCUT LINE/MATCH EXISTING.

CLARK COUNTY WATER RECLAMATION DISTRICT — DATE

CCWRD PIPES #: XX.XXX
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. TBD FIRST APPROVED DATE: -
LVVWD APPROVED FIRE FLOW: TOTAL X,XXX GPM/ONSITE X,XXX GPM

BENCHMARK
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BENCHMARK No. "5LV118NEE6"

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NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SOUTHWEST GAS CORPORATION SWG UID DATE

CITY OF LAS VEGAS FIRE AND RESCUE DATE

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CALL BEFORE YOU DIG UNDERGROUND
Call before you UnderGround 1-702-432-5300
Call Before You Overhead 1-702-227-2929
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No.	REVISIONS	DATE	BY

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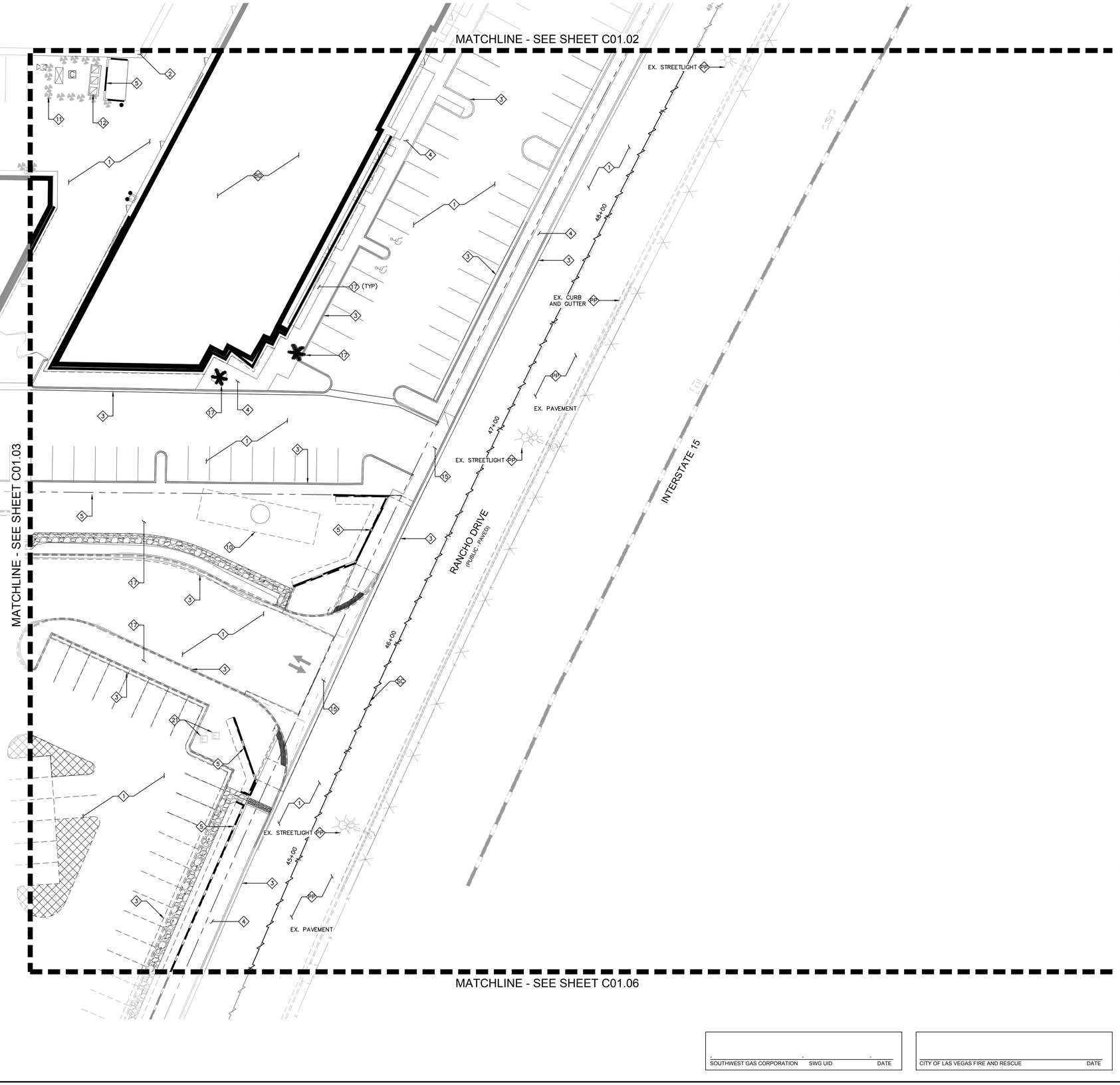
PROFESSIONAL ENGINEER — THOMAS ACKERET — Exp. 12/31/22 — CIVIL — No. 18592 — STATE OF NEVADA
11/16/2022

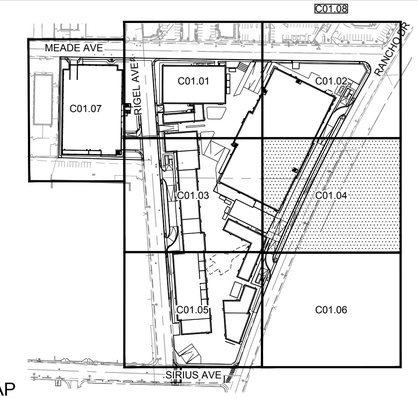
KHA PROJECT 092965011
DATE 11/16/2022
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY TEA
CHECKED BY TEA

DEMOLITION PLAN - SHEET 3

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS — NEVADA

6 OF 35 SHEETS
C01.03





KEY MAP

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21. REMOVE/RELOCATE EXISTING NV ENERGY EQUIPMENT PER NV ENERGY PLANS.
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CLARK COUNTY WATER RECLAMATION DISTRICT — DATE

CCWRD PIPES #: XX.XXX

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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

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KHA PROJECT	092965011
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DRAWN BY	TEA
CHECKED BY	TEA

DEMOLITION PLAN - SHEET 4

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

7 OF 35 SHEETS

C01.04

Plotted By:Durnell, Justin Sheet Set:Kha Layout:C01.04 November 17, 2022 07:16:02pm K:\Civ_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\092965012 - DM.dwg
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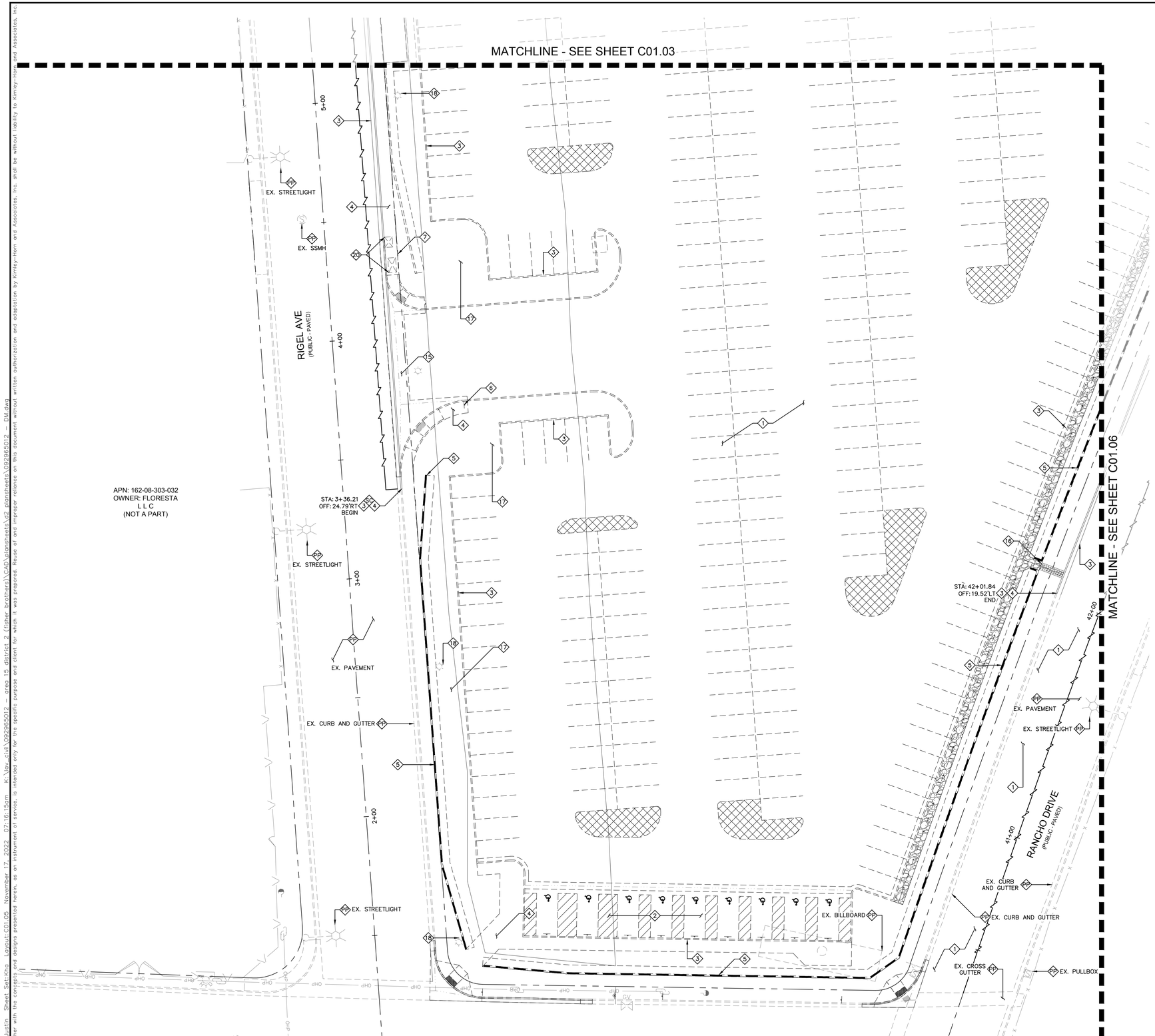

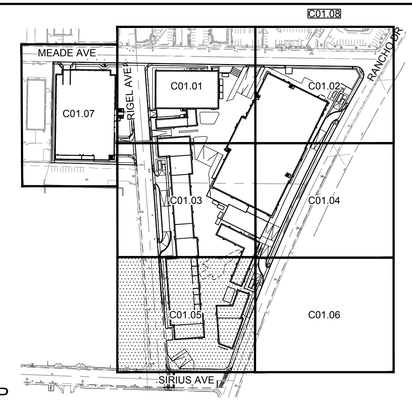

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SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
CALL BEFORE YOU DO UNDERGROUND
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (FAST)

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR
1-800-642-2444

Avoid overhead power line contact. It's costly.
Call Before You Overhead
1-702-227-2929

No.	REVISIONS	DATE	BY

Kimley»Horn
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6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3000
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
STATE OF NEVADA
CIVIL
11/16/2022

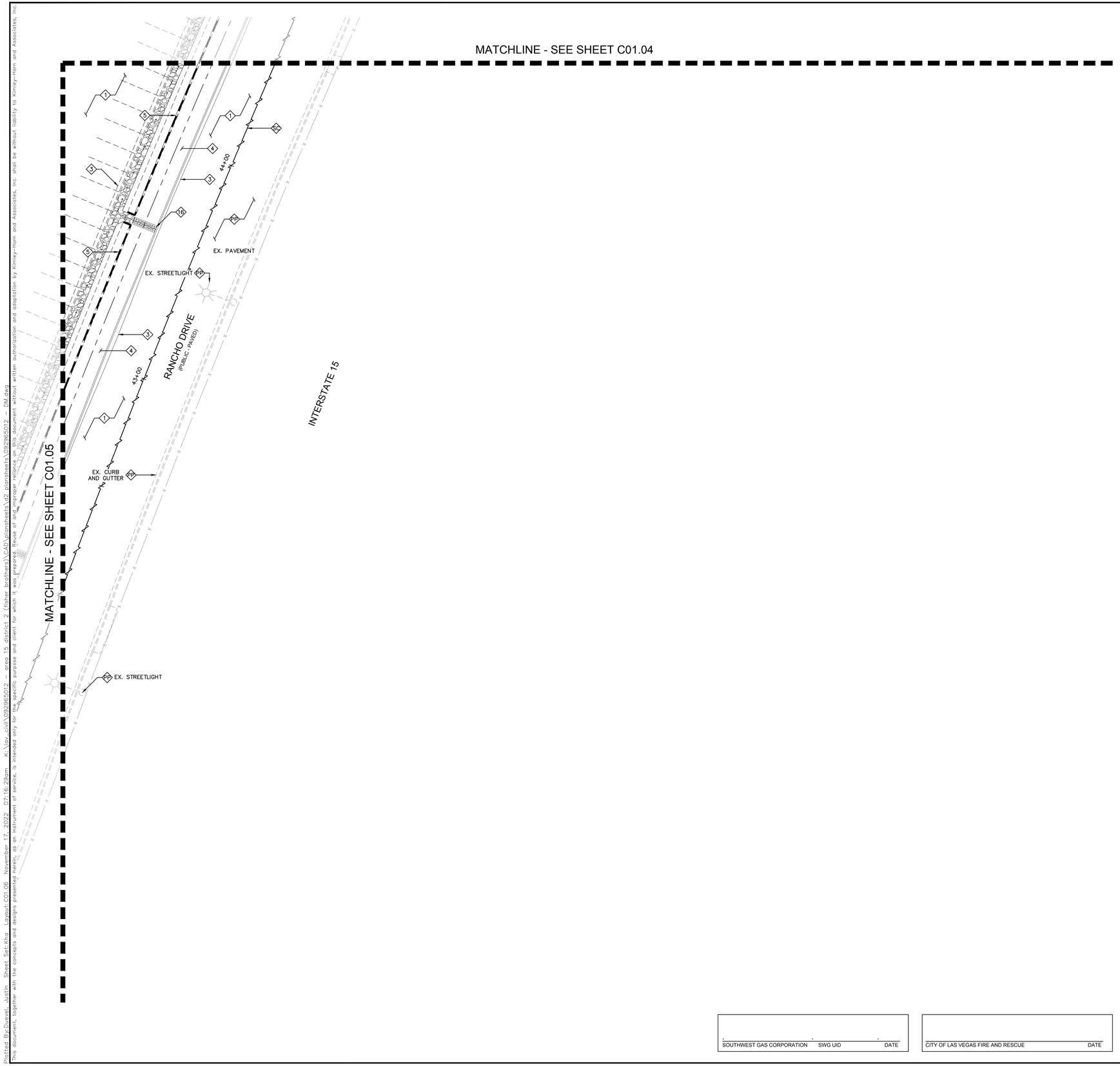
KHA PROJECT	095965011		
DATE	11/16/2022	DESIGNED BY	TEA
SCALE	AS SHOWN	DRAWN BY	TEA
		CHECKED BY	TEA

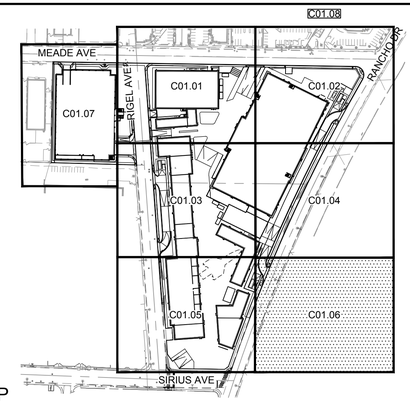
DEMOLITION PLAN - SHEET 5

AREA 15 DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

8 OF 35 SHEETS
C01.05

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C01.06 November 17, 2022 07:16:29am K:\lav_civil\09295012 - area 15 district 2 (fisher brothers)\CAD\plansheets\09295012 - DM.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, 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 adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.





KEY MAP
NTS

GENERAL NOTES
1. REFER TO SHEET C0.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
5. THE CONTRACTOR SHALL PROTECT IN PLACE EX. IMPROVEMENTS, THAT ARE NOTED TO REMAIN, DURING DEMOLITION AND CONSTRUCTION.
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8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.

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3. REMOVE EXISTING CURB TO NEAREST JOINT, LIMITS AS SHOWN ON PLANS.
4. REMOVE EXISTING SIDEWALK TO NEAREST JOINT, LIMITS AS SHOWN ON PLAN.
5. REMOVE EXISTING WALL.
16. REMOVE EXISTING SIDEWALK UNDERDRAIN.
PP. PROTECT IN PLACE.
SC. SAWCUT LINE/MATCH EXISTING.

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: XX.XXX
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. TBD FIRST APPROVED DATE: ____
LVVWD APPROVED FIRE FLOW: TOTAL X,XXX GPM/ONSITE X,XXX GPM

BENCHMARK
CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CONVERSION TO CLV VERTICAL CONTROL (NAVD88)
ELEVATION = 635.481+0.024m=635.505 METERS
2084.91+0.074'=2133.984 FEET
SEE SHEET C0.01 FOR ADDITIONAL INFORMATION

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING
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SOUTHWEST GAS CORPORATION SWG UID DATE

CITY OF LAS VEGAS FIRE AND RESCUE DATE

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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BY | DATE | REVISIONS | No.

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PHONE: 702-862-3500
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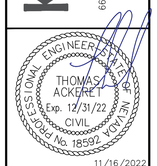


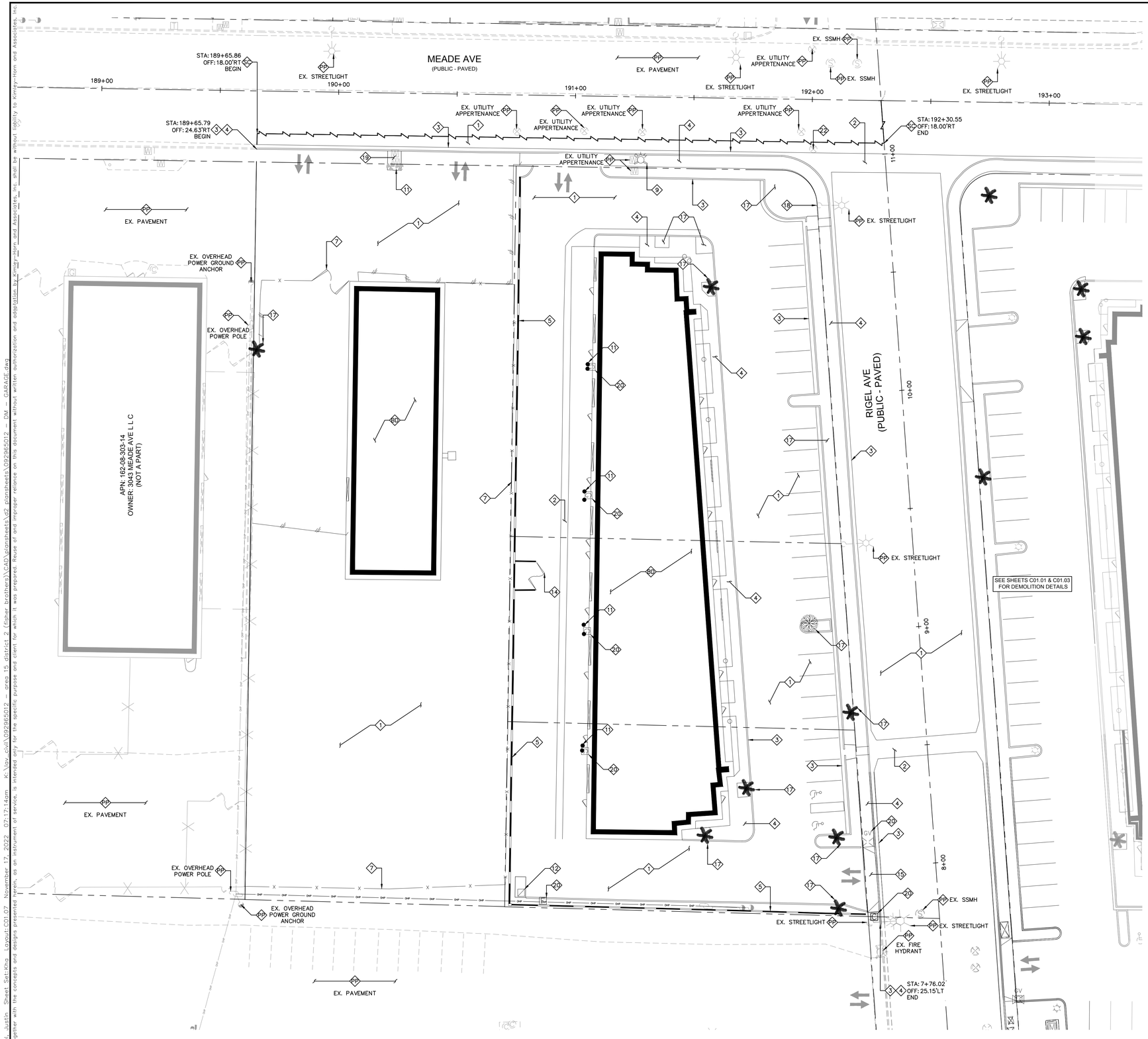
11/16/2022

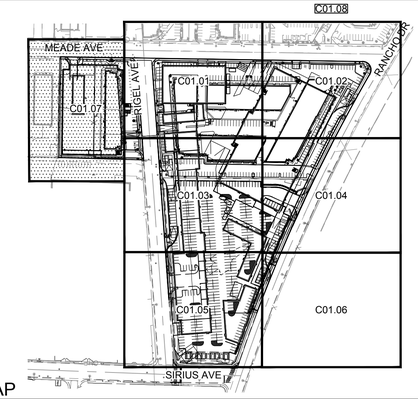
KHA PROJECT	095295011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

DEMOLITION PLAN - SHEET 6

AREA 15 DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

9 OF 35 SHEETS
C01.06





KEY MAP

NTS

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3. REMOVE EXISTING CURB TO NEAREST JOINT, LIMITS AS SHOWN ON PLANS.
4. REMOVE EXISTING SIDEWALK TO NEAREST JOINT, LIMITS AS SHOWN ON PLAN.
5. REMOVE EXISTING WALL.
7. REMOVE EXISTING FENCE, INCLUDING GATES WHERE APPLICABLE.
9. REMOVE/RELOCATE EXISTING FIRE HYDRANT.
11. REMOVE EXISTING BOLLARDS.
12. REMOVE/RELOCATE EXISTING ELECTRICAL APPERTENANCES.
14. REMOVE EXISTING ENCLOSURE DOORS.
15. REMOVE EXISTING DRIVEWAY.
17. REMOVE EXISTING LANDSCAPE AREA.
18. REMOVE EXISTING LIGHT. REMOVE FOUNDATION IN ITS ENTIRETY.
19. REMOVE/RELOCATE EXISTING WATER METERS PER W SHEETS.
20. REMOVE/RELOCATE UTILITY APPERTENANCE PER UTILITY PLANS.
22. PROTECT EXISTING UTILITY APPERTENANCE AND ADJUST TO GRADE.
80. DEMOLISH BUILDING, SEE BUILDING DEMOLITION PLANS FOR DETAILS.
PP. PROTECT IN PLACE.
SC. SAWCUT LINE/MATCH EXISTING.

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: XX.XXX

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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. TBD FIRST APPROVED DATE: _____

LVVWD APPROVED FIRE FLOW: TOTAL _X,XXX_ GPM/ONSITE _X,XXX_ GPM

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

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No.	REVISIONS	DATE	BY

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PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

K+H PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

DEMOLITION PLAN - GARAGE

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

10 OF 35 SHEETS

C01.07

Plotted By:Dukett, Justin Sheet Set:Kng Layout:C01.07 November 17, 2022 07:17:14am K:\lav_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\d2 plansheets\092965012 - DM - GARAGE.dwg
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Plotted By: Durwal, Justin Sheet Set: Kha Layout: C01.08 November 17, 2022 07:17:23pm K:\Dev-civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\092965012 - DM - OARAVE.dwg
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EX. CURB
EX. PAVEMENT
EX. DRIVEWAY
EX. FIRE HYDRANT
EX. CURB AND GUTTER
EX. LANDSCAPE AREA
EX. LANDSCAPE AREA
EX. TRASH ENCLOSURE
EX. CONCRETE PAD
EX. DRIVEWAY
EX. OVERHEAD PARKING COVER
EX. VALLEY GUTTER
EX. OVERHEAD PARKING COVER
EX. CURB AND GUTTER
EX. PAVEMENT
EX. VALLEY GUTTER
EX. OVERHEAD PARKING COVER
EX. SIDEWALK
EX. LANDSCAPE AREA
EX. DRIVEWAY
EX. PAVEMENT
EX. OVERHEAD PARKING COVER
EX. POWER TRANSFORMER
EX. CURB AND GUTTER
EX. LANDSCAPE AREA
EX. DRIVEWAY
EX. SIDEWALK

APN: 162-08-701-005
OWNER: EDEN LAS VEGAS L L C
(NOT A PART)

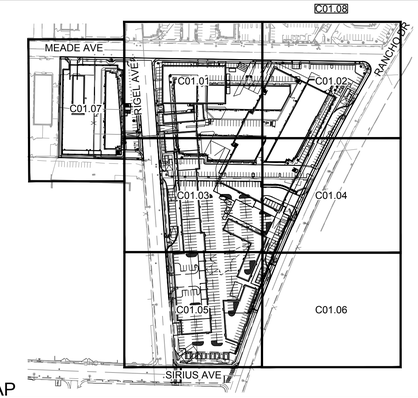
55+00
54+00
53+00
52+00
51+00
198+00
199+00
200+00

RANCHO DRIVE
(PUBLIC - PAVED)

INTERSTATE 15

MEADE AVE
(PUBLIC - PAVED)

SEE SHEET C01.02 FOR DEMOLITION DETAILS



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DEMOLITION NOTES
(DB) DEMOLISH BUILDING, SEE BUILDING DEMOLITION PLANS FOR DETAILS.
(PP) PROTECT IN PLACE.

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: XX.XXX
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. TBD FIRST APPROVED DATE: _____
LVVWD APPROVED FIRE FLOW: TOTAL X,XXX GPM/ONSITE X,XXX GPM

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CIVIL
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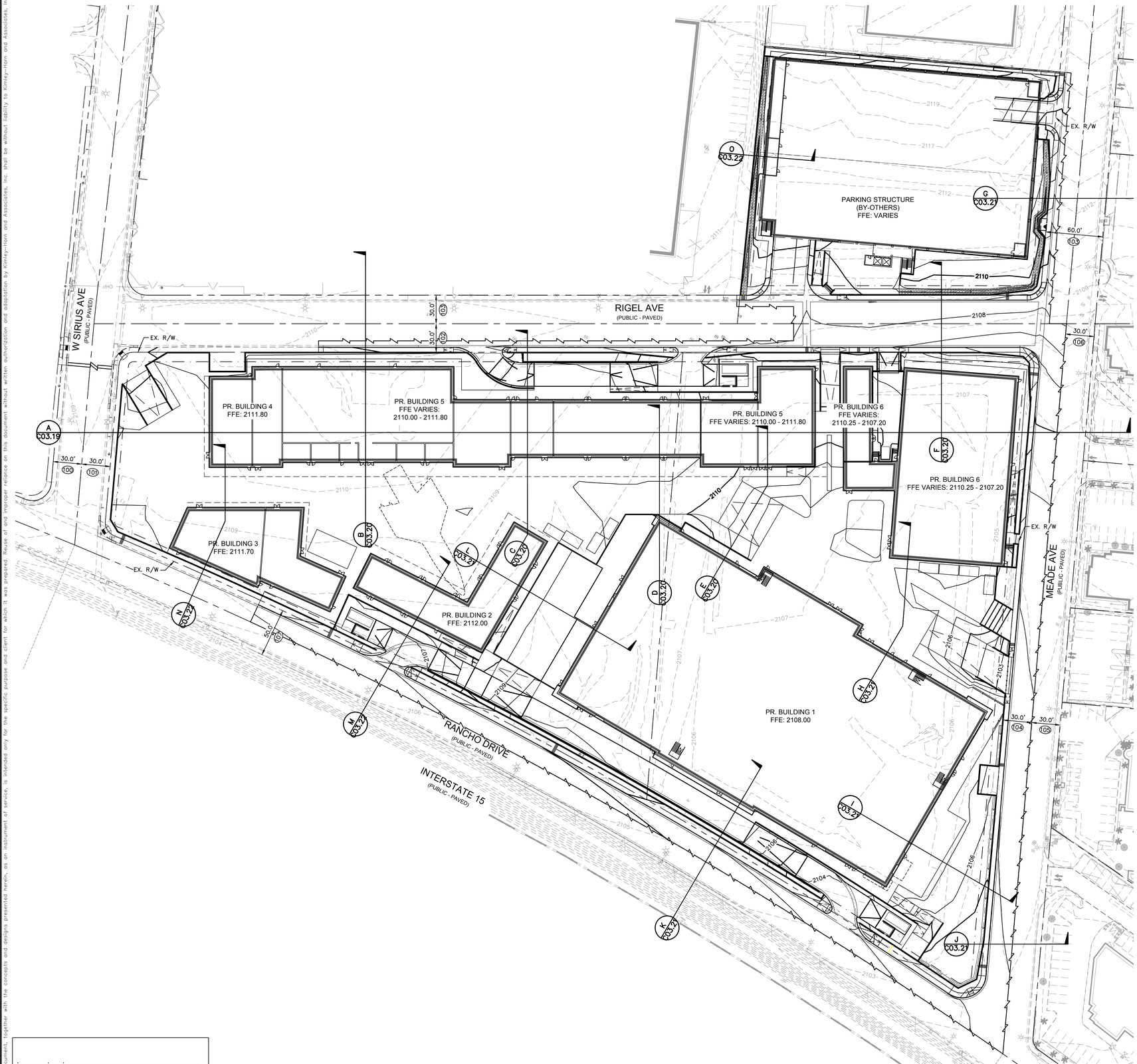
11/16/2022

KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

DEMOLITION PLAN -OFFSITE BUILDING

AREA 15 DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

11 OF 35 SHEETS
C01.08



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8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SUBJECT SITE LIES WITHIN ZONE "X" OF FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD FLOODPLAIN."

STORMWATER COMPLIANCE NOTES

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 AND 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, SITE STABILIZATION REQUIREMENTS, SCHEDULES, AND DEADLINES.
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, INSPECTIONS SECTION.
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.
6. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL RESPOND TO STORMWATER INSPECTION CORRECTIVE ACTIONS IN THE MANNER PRESCRIBED BY CLARK COUNTY, INCLUDING BUT NOT LIMITED TO PROVIDING PHOTOS AND DESCRIPTIONS OF THE CORRECTIONS COMPLETED BY THE CONTRACTOR OR HIS AGENT.

RIGHT-OF-WAY AND EASEMENTS

100 EX. SIRIUS AVE R/W PER DOC #_____.
101 EX. SIRIUS AVE R/W PER DOC #_____.
102 EX. RIGEL AVE R/W PER DOC #0452: 0364174.
103 EX. RIGEL AVE R/W PER DOC #0020: 0018943.
104 EX. MEADE AVE R/W PER DOC #0000: 0232884.
105 EX. MEADE AVE R/W PER DOC #0000: 0288327.
106 EX. MEADE AVE R/W PER DOC #_____.
107 EX. RANCHO DR R/W PER DOC #0329: 0288327.

GRADING NOTES

1. THE EARTHWORK QUANTITIES ABOVE ARE FOR PERMIT PURPOSES ONLY. THE CONTRACTOR IS NOT AUTHORIZED TO USE THE ESTIMATES HEREIN FOR BIDDING AND CONSTRUCTION PURPOSES WITHOUT THE EXPLICIT WRITTEN PERMISSION OF THE ENGINEER OF RECORD. NO REPRESENTATIONS OF SUCH QUANTITIES OR A BALANCED SITE CONDITION ARE MADE BY THE ENGINEER OF RECORD.
2. UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THE ABOVE QUANTITIES ARE APPROXIMATE, IN PLACE VOLUMES CALCULATED FROM THE EXISTING GROUND TO THE PROPOSED FINISHED GRADE. EXISTING GROUND IS DEFINED BY THE CONTOURS AND SPOT GRADES ON THE BASE SURVEY. PROPOSED FINISHED GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN(S) AS FINISHED GROUND, FINISHED SURFACE, AND FINISHED FLOOR ELEVATIONS.
3. UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THE ABOVE GRADING QUANTITIES HAVE NOT BEEN FACTORED TO ACCOUNT FOR CHANGES IN VOLUME DUE TO BULKING, CLEARING AND GRUBBING, SHRINKAGE, SUBSIDENCE, OVER-EXCAVATION AND RE-COMPACTION, AND CONSTRUCTION METHODS. NOR DO THEY ACCOUNT FOR THE THICKNESS OF PAVEMENT SECTIONS, STORMWATER QUALITY MEDIA SECTIONS, UTILITY PIPES, TRENCHING AND BEDDING MATERIALS, BUILDING OR WALL FOOTINGS, BUILDING SLAB THICKNESSES AND UNDERLYING BASE OR SAND LAYERS, REUSE OF PULVERIZED MATERIALS THAT WILL UNDERLIE NEW PAVEMENTS, ETC.
4. ANY OVEREXCAVATION AND RECOMPACTION DEPTHS AND VOLUMES, SHRINKAGE FACTORS, PAVEMENT SECTIONS, BUILDING PAD SECTIONS, AND BULKING FACTORS ARE BASED ON A SEPARATE GEOTECHNICAL REPORT. ANY BUILDING SLAB THICKNESSES ARE BASED ON THE SEPARATE BUILDING STRUCTURAL ENGINEERING PLANS. ANY UTILITY, STORMWATER MITIGATION, AND FOOTING SPOILS ARE BASED ON ESTIMATES PROVIDED BY THE OWNER OR CONTRACTOR

EARTHWORK ESTIMATE

CUT VOLUME: 1900 CY
FILL VOLUME: 23,850 CY
NET VOLUME: 21,950 CY OF CUT*
*BASED ON A SURFACE TO SURFACE, UNADJUSTED ANALYSIS. FOR INFORMATION ONLY; CONTRACTOR SHALL PERFORM AND BASE BID ON ITS OWN TAKE-OFF.

NOTE:
THIS SHEET IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NO CONSTRUCTION SHALL BE DONE BASED ON INFORMATION SHOWN ON THIS SHEET. SEE SHEETS C03.01.-C03.22

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

SOUTHWEST GAS CORPORATION SWG UID DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call before you UnderGround 1-702-432-5300
Call 811 OR 1-800-642-2444
Avoid overhead power line contact. It's costly.
Call Before You Overhead 1-702-227-2929

No.	REVISIONS	DATE	BY

Kimley»Horn
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6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-498-2000
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
Exp. 12/31/22
CIVIL
No. 18592
STATE OF NEVADA

11/16/2022

KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

OVERALL GRADING PLAN

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

12 OF 35 SHEETS
C03.00

Plotted By:Durell, Justin Sheet Set:Kha Layout:C03.00 November 17, 2022 07:18:07am K:\Las-civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\02 plansheets\092965012 - GD OVRL.dwg
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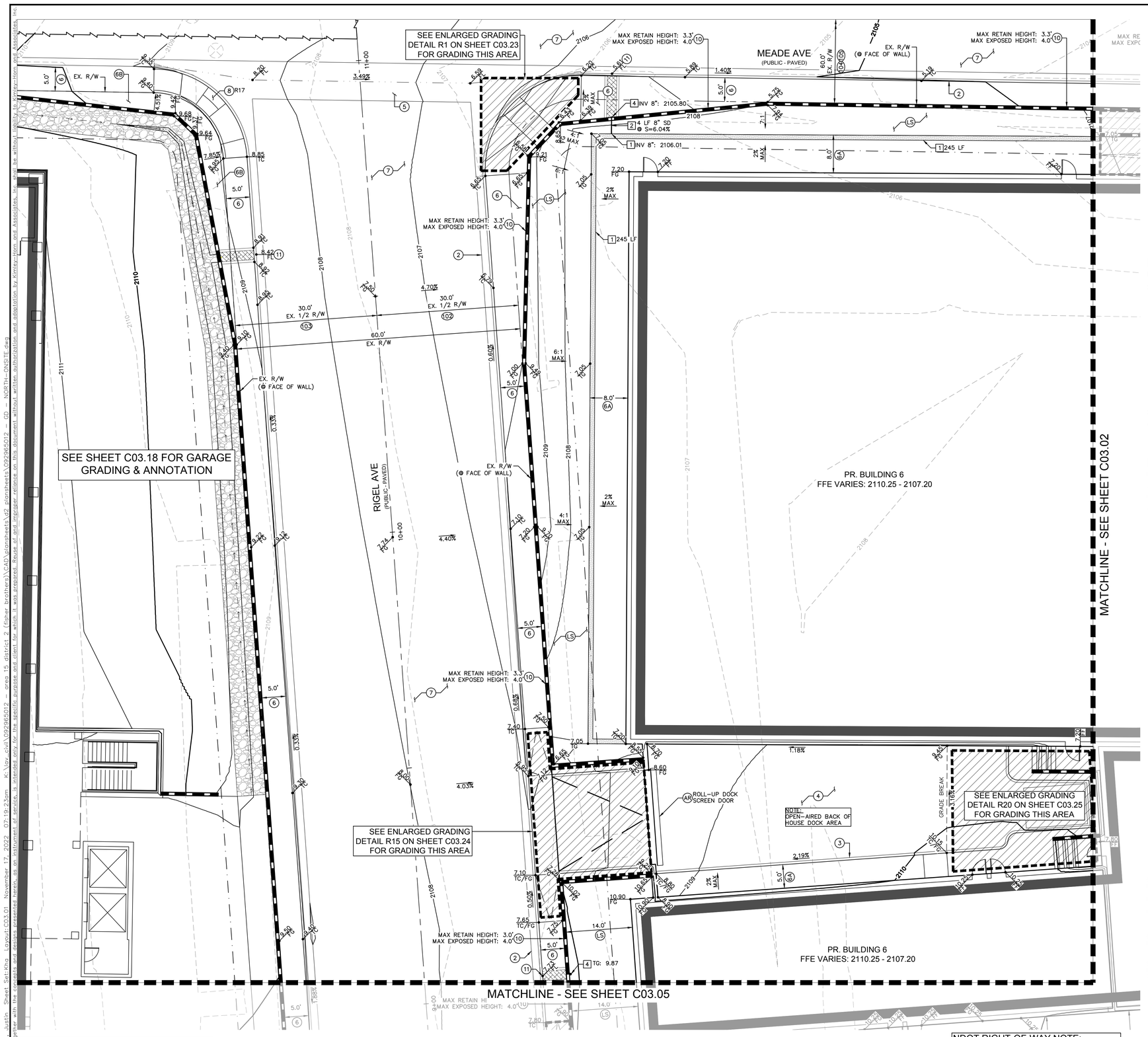

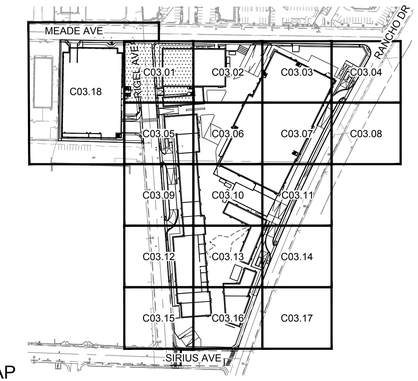

KEY MAP

NTS

GENERAL NOTES

1. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
5. THE CONTRACTOR SHALL PROTECT IN PLACE EX. IMPROVEMENTS, THAT ARE NOTED TO REMAIN, DURING DEMOLITION AND CONSTRUCTION.
6. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND PROTECT IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.
7. ANY EXISTING STRUCTURE(S), IMPROVEMENT(S), AND/OR APPURTENANCE(S) TO REMAIN, WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION, SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(3) INSTALL 0" FACE CURB PER DETAIL 2 ON SHEET C03.26.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(5) INSTALL CONCRETE CROSS GUTTER PER CCAUSD No. 228.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTURAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(6B) INSTALL CONCRETE 4" CONCRETE WALK (NON ADA) PER CCAUSD NO. 234. LOCATED BEHIND R/W TO FACE OF WALL.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(8) INSTALL ADA SIDEWALK RAMP, I.D. AS NOTED ON PLAN. REFER TO DETAILS ON SHEET C03.23-C03.25 FOR RAMP I.D., GEOMETRY AND GRADES.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.
(AR) REFER TO ARCHITECTURAL PLANS FOR DETAILS.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.
[2] INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.
[4] OUTLET STORM DRAIN PIPE THROUGH PERIMITER FLOOD WALL. PIPE INVERT SHALL BE FLUSH WITH SIDEWALK UNDERDRAIN FLOWLINE ELEVATION.

RIGHT-OF-WAY AND EASEMENTS

(102) EX. RIGEL AVE R/W PER DOC #0452:0364174.
(103) EX. RIGEL AVE R/W PER DOC #0020:0018943.
(104) EX. MEADE AVE R/W PER DOC #0000:0232884.
(105) EX. MEADE AVE R/W PER DOC #0000:0288327.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118EE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

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2084.91 FEET

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NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

NDOT RIGHT-OF-WAY NOTE:
NO WORK SHALL BE DONE WITHIN NDOT RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT.

STORM DRAIN NOTE:
ALL ONSITE STORM DRAIN SYSTEM ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

SOUTHWEST GAS CORPORATION SWG UID DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
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PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

NO.	REVISIONS	DATE	BY

KHA PROJECT 092965011
DATE 11/16/2022
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY TEA
CHECKED BY TEA

GRADING PLAN - SHEET 1

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

13 OF 35 SHEETS
C03.01

Plotted By:Durvell, Justin Sheet Set:Kha Layout:C03.01 November 17, 2022 07:19:23pm K:\Civ_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\92 plansheets\092965012 - GD - NORTH-ONSITE.dwg
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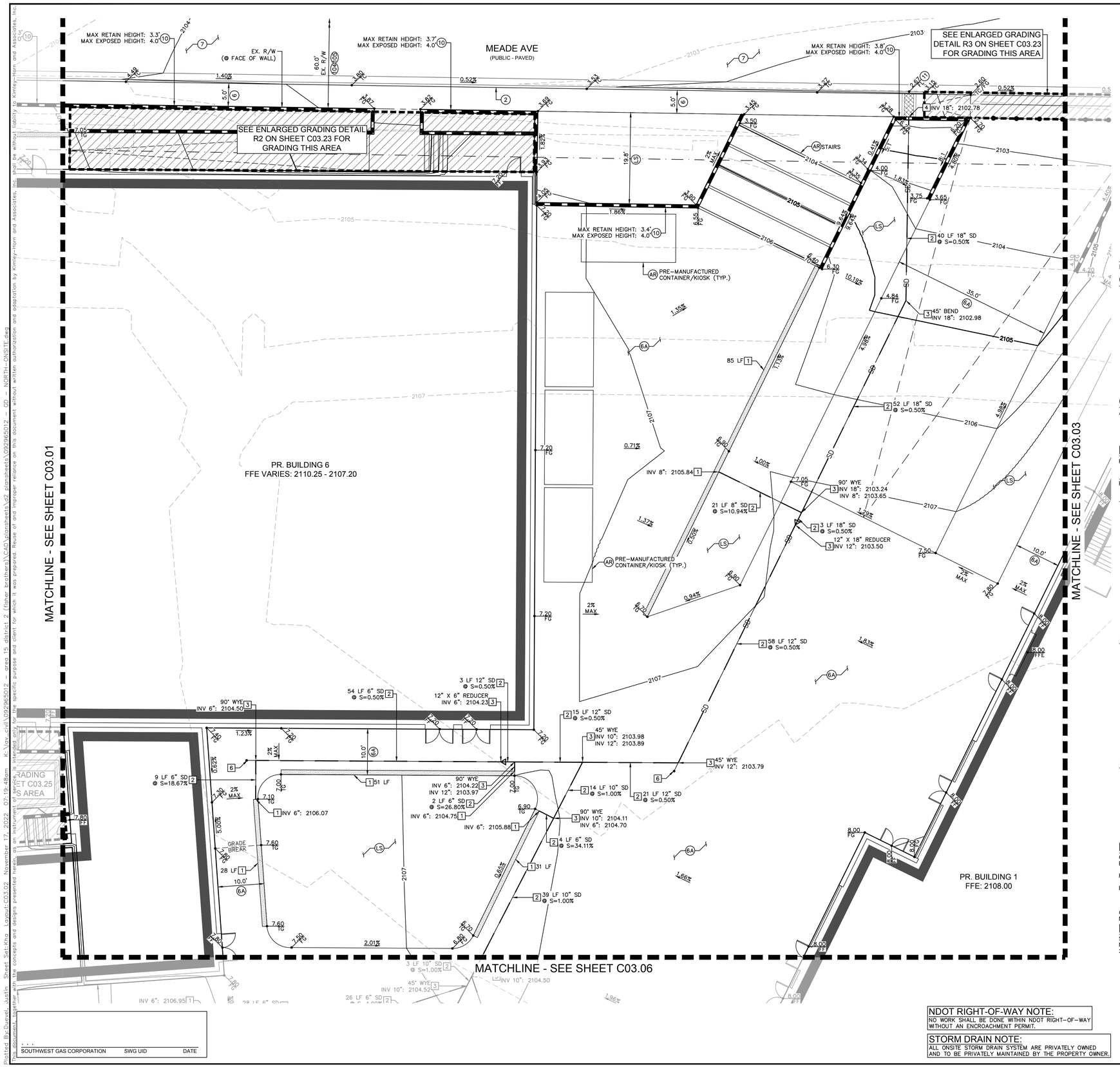

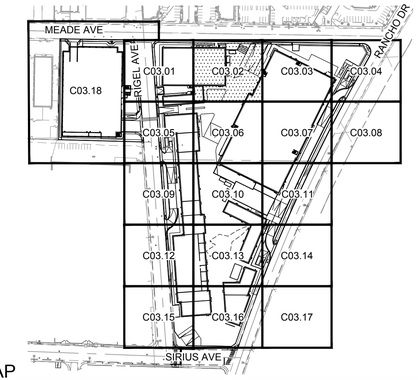

KEY MAP

NTS

GENERAL NOTES

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9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.

(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.

(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.

(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.

(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.

(11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.

(AR) REFER TO ARCHITECTURAL PLANS FOR DETAILS.

(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.

[2] INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.

[3] INSTALL PVC FITTING, SIZE PER PIPE. TYPE AS NOTED ON PLANS.

[4] OUTLET STORM DRAIN PIPE THROUGH PERIMITER FLOOD WALL. PIPE INVERT SHALL BE FLUSH WITH SIDEWALK UNDERDRAIN FLOWLINE ELEVATION.

[6] INSTALL 4" STORM DRAIN CLEANOUT.

RIGHT-OF-WAY AND EASEMENTS

(104) EX. MEADE AVE R/W PER DOC #0000:0232884.

(105) EX. MEADE AVE R/W PER DOC #0000:0288327.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "SLV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

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2084.91 FEET

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SOUTHWEST GAS CORPORATION SWG UID DATE

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

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No.	REVISIONS	DATE	BY

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PROFESSIONAL ENGINEER
THOMAS A. ACKERET
No. 15592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT 092965011
DATE 11/16/2022
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY TEA
CHECKED BY TEA

GRADING PLAN - SHEET 2

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

14 OF 35 SHEETS
C03.02

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C03.02 November 17, 2022 07:19:48am K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - NORTH-ONSITE.dwg
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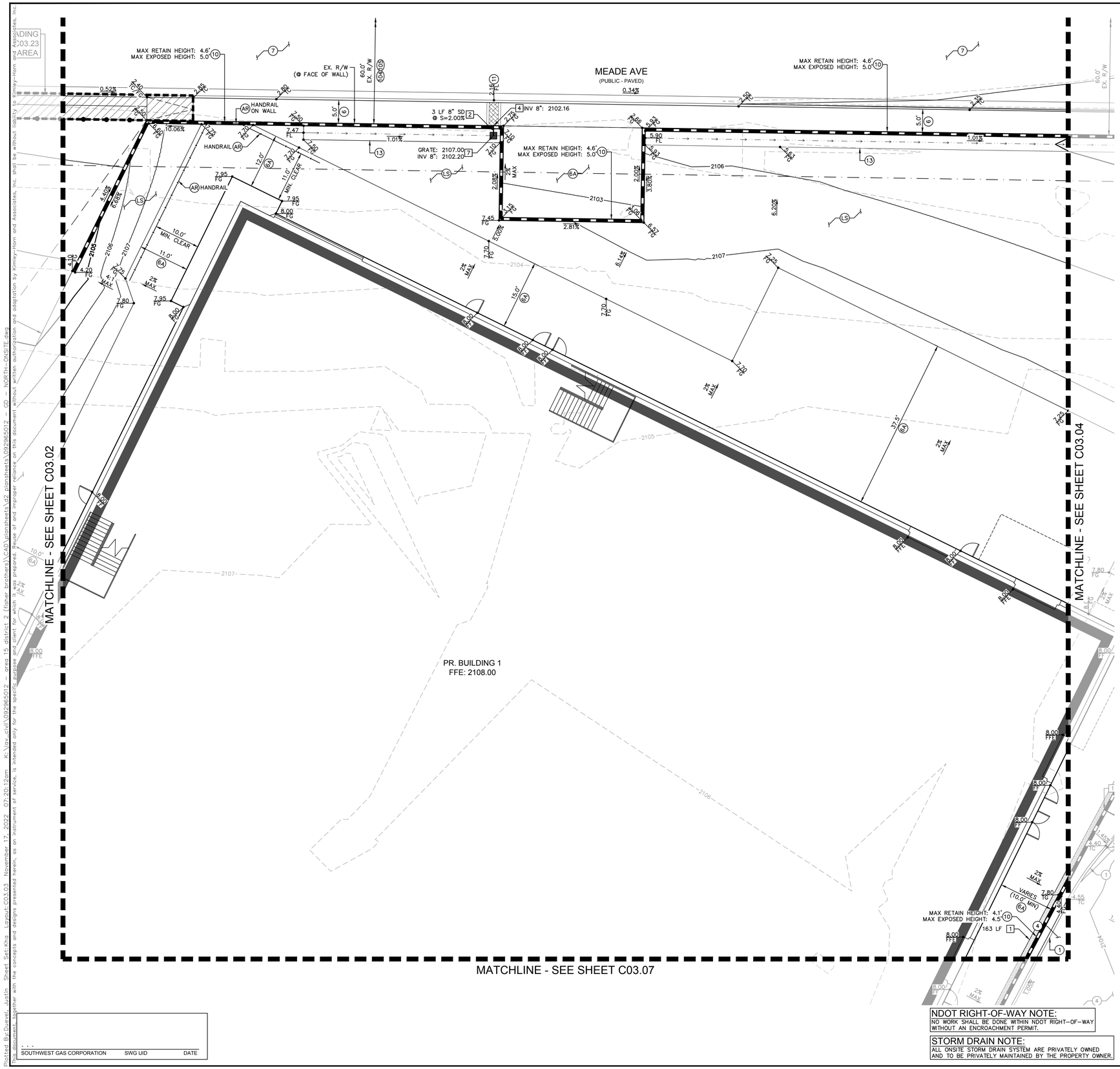

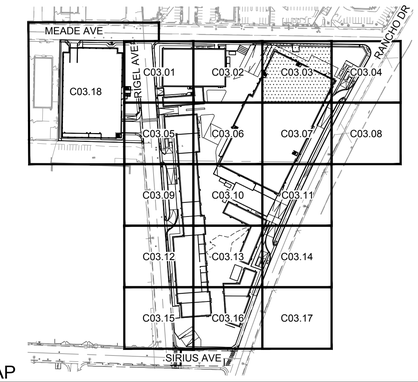

KEY MAP

NTS

GENERAL NOTES

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10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(1) INSTALL MODIFIED TYPE 'A' CONCRETE CURB PER DETAIL 1 ON SHEET C03.26.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTURAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.
(13) INSTALL 6' WIDE VALLEY GUTTER PER DETAIL 4 ON SHEET C03.26.
(AR) REFER TO ARCHITECTURAL PLANS FOR DETAILS.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.
[2] INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.
[4] OUTLET STORM DRAIN PIPE THROUGH PERIMITER FLOOD WALL. PIPE INVERT SHALL BE FLUSH WITH SIDEWALK UNDERDRAIN FLOWLINE ELEVATION.
[7] INSTALL 24"X24" JENSEN PRECAST INLET PER DETAIL 7 ON SHEET C03.26 WITH STORMWATER QUALITY STAMP PER CCAUSD No. 421 WITH A BOLT DOWN TOP.

RIGHT-OF-WAY AND EASEMENTS

(104) EX. MEADE AVE R/W PER DOC #0000:0232884.
(105) EX. MEADE AVE R/W PER DOC #0000:0288327.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

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2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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Call Before You Overhead 1-702-227-2929

No.	REVISIONS	DATE	BY

Kimley»Horn
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6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3000
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 3

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

15 OF 35 SHEETS
C03.03

Plotted By:Durkee, Justin Sheet Set:Kha Layout:C03.03 November 17, 2022 07:20:12pm K:\Las_civil\092965012 area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 GD - NORTH-ONSITE.dwg
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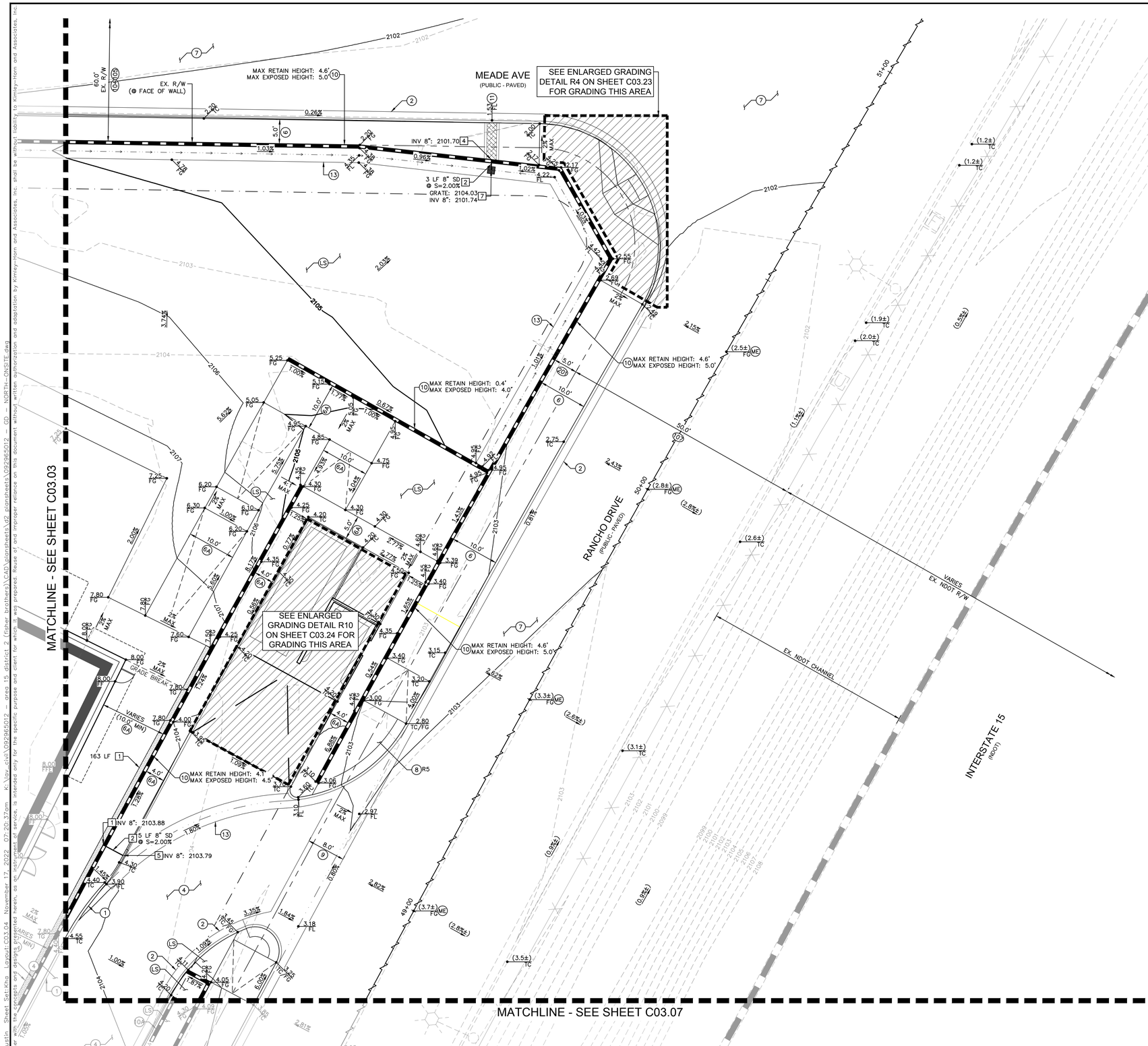

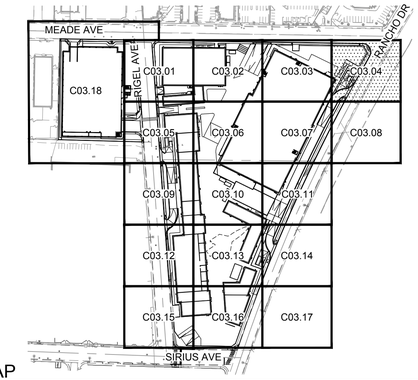

KEY MAP

NTS

GENERAL NOTES

1. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
5. THE CONTRACTOR SHALL PROTECT IN PLACE EX. IMPROVEMENTS, THAT ARE NOTED TO REMAIN, DURING DEMOLITION AND CONSTRUCTION.
6. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND PROTECT IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.
7. ANY EXISTING STRUCTURE(S), IMPROVEMENT(S), AND/OR APPURTENANCE(S) TO REMAIN, WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION, SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(1) INSTALL MODIFIED TYPE 'A' CONCRETE CURB PER DETAIL 1 ON SHEET C03.26.
(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(8) INSTALL ADA SIDEWALK RAMP, I.D. AS NOTED ON PLAN. REFER TO DETAILS ON SHEET C03.23–C03.25 FOR RAMP I.D., GEOMETRY AND GRADES.
(9) INSTALL COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1 AND 225.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B–100–2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(10A) INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B–100–1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
(11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.
(13) INSTALL 6' WIDE VALLEY GUTTER PER DETAIL 4 ON SHEET C03.26.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(ME) MATCH EXISTING

STORM DRAIN NOTES

[1] INSTALL Z886–HDG–LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.
[2] INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.
[4] OUTLET STORM DRAIN PIPE THROUGH PERIMITER FLOOD WALL. PIPE INVERT SHALL BE FLUSH WITH SIDEWALK UNDERDRAIN FLOWLINE ELEVATION.
[5] INSTALL CURB–O–LET MODEL No. TCD35–NS, PER DETAIL 8 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT INLET PIPE TO CURB–O–LET.
[7] INSTALL 24"X24" JENSEN PRECAST INLET PER DETAIL 7 ON SHEET C03.26 WITH STORMWATER QUALITY STAMP PER CCAUSD No. 421 WITH A BOLT DOWN TOP.

RIGHT-OF-WAY AND EASEMENTS

(104) EX. MEADE AVE R/W PER DOC #0000:0232884.
(105) EX. MEADE AVE R/W PER DOC #0000:0288327.
(107) EX. RANCHO DR R/W PER DOC #0329:0288327.
(201) PR. PEDESTRIAN ACCESS EASEMENT PER DOC #_____.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "SLV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

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NDOT RIGHT-OF-WAY NOTE:
NO WORK SHALL BE DONE WITHIN NDOT RIGHT–OF–WAY WITHOUT AN ENCROACHMENT PERMIT.

STORM DRAIN NOTE:
ALL ONSITE STORM DRAIN SYSTEM ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

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DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 4

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA

CITY OF LAS VEGAS

16 OF 35 SHEETS
C03.04

Plotted By: Dulawa, Justin Sheet Set: Kha Layout: C03.04 November 17, 2022 07:20:37am K:\Las-civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\c03 plansheets\092965012 - CD - NORTH-ONSITE.dwg
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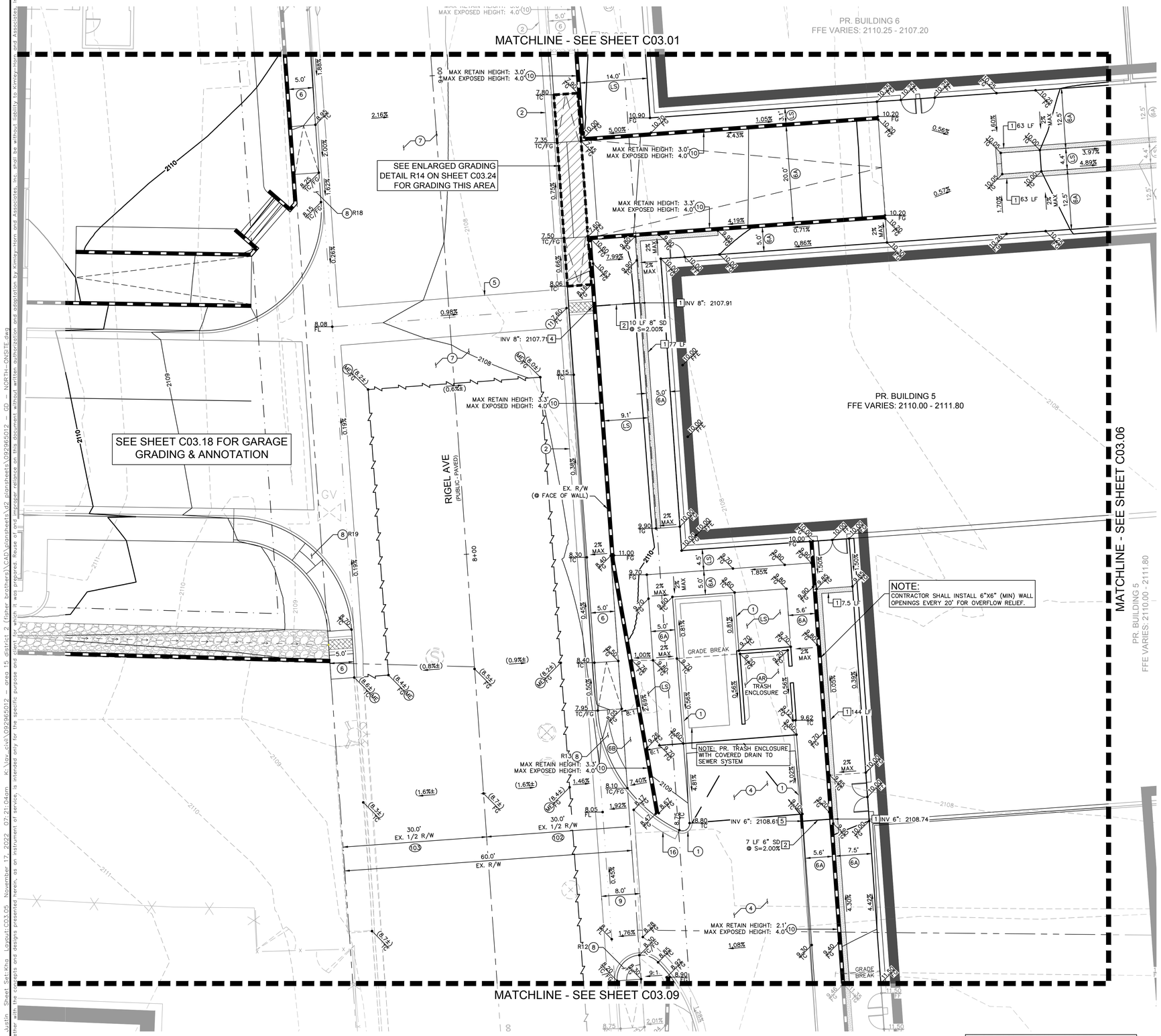

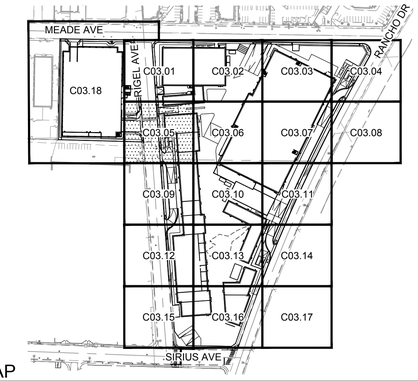

KEY MAP

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GENERAL NOTES

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8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(1) INSTALL MODIFIED TYPE 'A' CONCRETE CURB PER DETAIL 1 ON SHEET C03.26.
(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(5) INSTALL CONCRETE CROSS GUTTER PER CCAUSD No. 228.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(6B) INSTALL CONCRETE 4" CONCRETE WALK (NON ADA) PER CCAUSD NO. 234. LOCATED BEHIND R/W TO FACE OF WALL.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(8) INSTALL ADA SIDEWALK RAMP, I.D. AS NOTED ON PLAN. REFER TO DETAILS ON SHEET C03.23–C03.25 FOR RAMP I.D., GEOMETRY AND GRADES.
(9) INSTALL COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1 AND 225.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B–100–2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.
(16) INSTALL TRANSITION FROM TYPE 'L' CURB TO 0" FACE CURB.
(AR) REFER TO ARCHITECTURAL PLANS FOR DETAILS.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(ME) MATCH EXISTING

STORM DRAIN NOTES

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[5] INSTALL CURB–O–LET MODEL No. TCD35–NS, PER DETAIL 8 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT INLET PIPE TO CURB–O–LET.

RIGHT-OF-WAY AND EASEMENTS

(102) EX. RIGEL AVE R/W PER DOC #0452:0364174.
(103) EX. RIGEL AVE R/W PER DOC #0020:0018943.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

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GRAPHIC SCALE IN FEET
0 5 10 20

SOUTHWEST GAS CORPORATION SWG UID DATE

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PROFESSIONAL ENGINEER
THOMAS E. ACKERET
Exp. 12/31/22
CIVIL
No. 18592
STATE OF NEVADA

11/16/2022

KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 5

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

17 OF 35 SHEETS
C03.05

Plotted By: Durell, Justin Sheet Set: Kha Layout: C03.05 November 17, 2022 07:21:04am K:\Civ_civil\092965012 – area 15 district 2 (fisher brothers)\CAD\plansheets\v02 plansheets\092965012 – GD – NORTH–ONSITE.dwg
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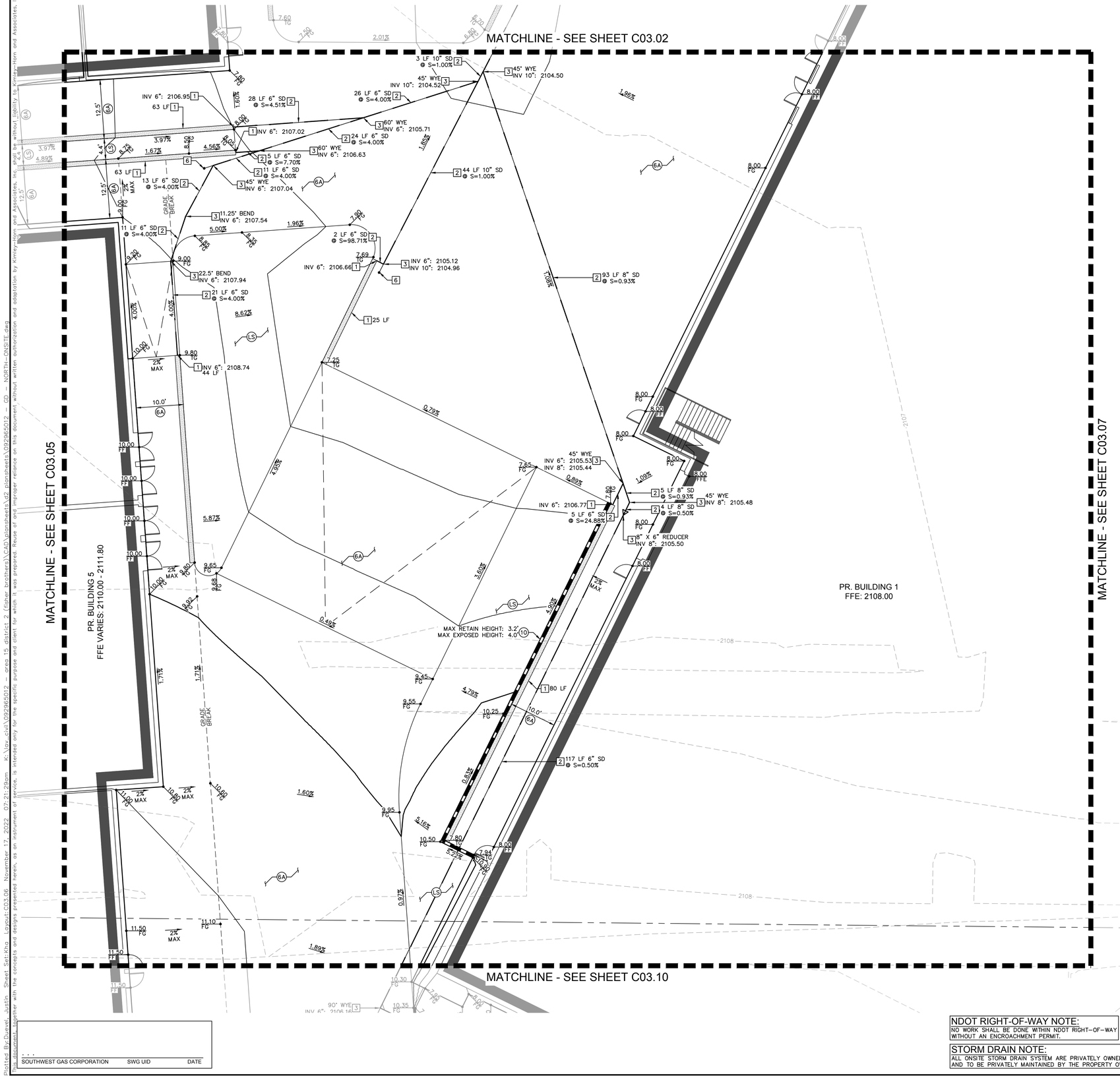

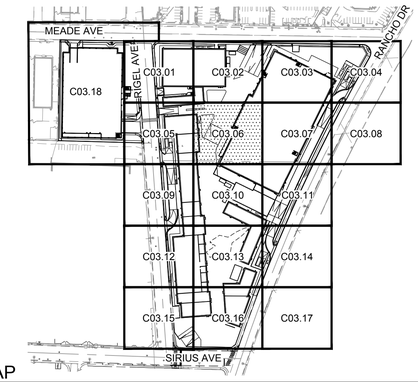

KEY MAP

NTS

GENERAL NOTES

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ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.

(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.

(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.

STORM DRAIN NOTES

1 INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.

2 INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.

3 INSTALL PVC FITTING, SIZE PER PIPE. TYPE AS NOTED ON PLANS.

6 INSTALL 4" STORM DRAIN CLEANOUT.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "SLV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

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NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

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SOUTHWEST GAS CORPORATION SWG UID DATE

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DESIGNED BY	TEA	BY	TEA
DRAWN BY	TEA	BY	TEA
CHECKED BY	TEA	BY	TEA

GRADING PLAN - SHEET 6

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

18 OF 35 SHEETS
C03.06

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Plotted By:Duevel, Justin Sheet Set:Kng Layout:C03.07 November 17, 2022 07:21:51pm K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - NORTH-ONSITE.dwg
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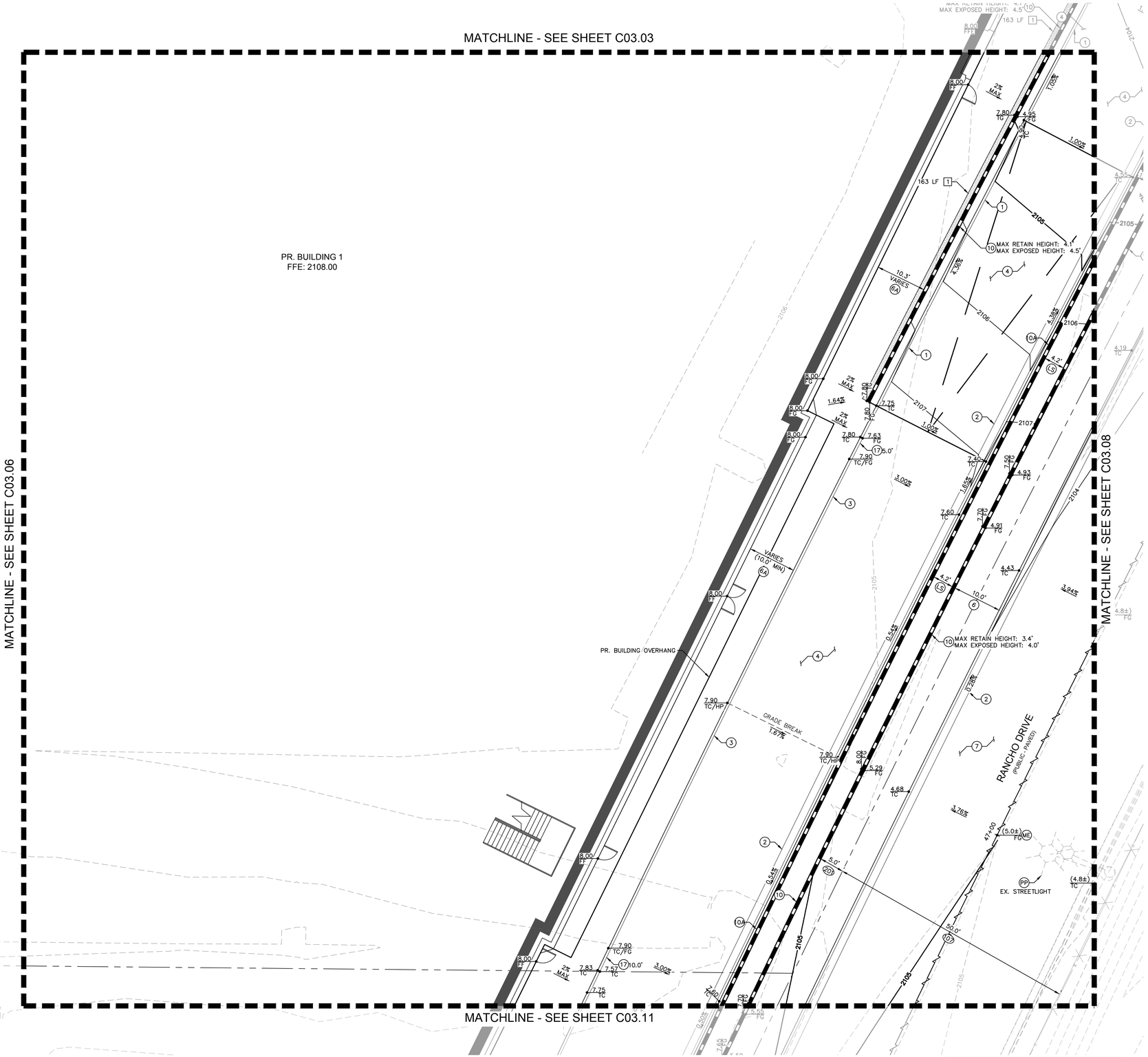

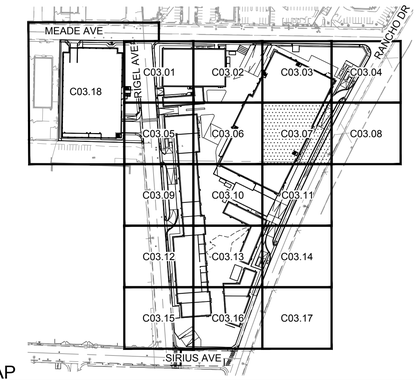

KEY MAP
NTS

GENERAL NOTES

1. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
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8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT
ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE
REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES
REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(1) INSTALL MODIFIED TYPE 'A' CONCRETE CURB PER DETAIL 1 ON SHEET C03.26.
(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(3) INSTALL 0" FACE CURB PER DETAIL 2 ON SHEET C03.26.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTURAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(10A) INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B-100-1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
(17) INSTALL TRANSITION FROM MODIFIED TYPE 'A' CURB TO 0" FACE CURB.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(ME) MATCH EXISTING
(PP) PROTECT IN PLACE

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.

RIGHT-OF-WAY AND EASEMENTS

(107) EX. RANCHO DR R/W PER DOC #0329:0288327.
(201) PR. PEDESTRIAN ACCESS EASEMENT PER DOC #_____.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "SLV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING
SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NDOT RIGHT-OF-WAY NOTE:
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STORM DRAIN NOTE:
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NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

SOUTHWEST GAS CORPORATION SWG UID DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL before you DIG UNDERGROUND
Call 811 or before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (FAST)
Call 811 or 1-800-642-2444
Avoid overhead power line contact. It's costly.
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1-702-227-2929

No.	REVISIONS	DATE	BY

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

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
Exp. 12/31/22
CIVIL
STATE OF NEVADA
No. 18597

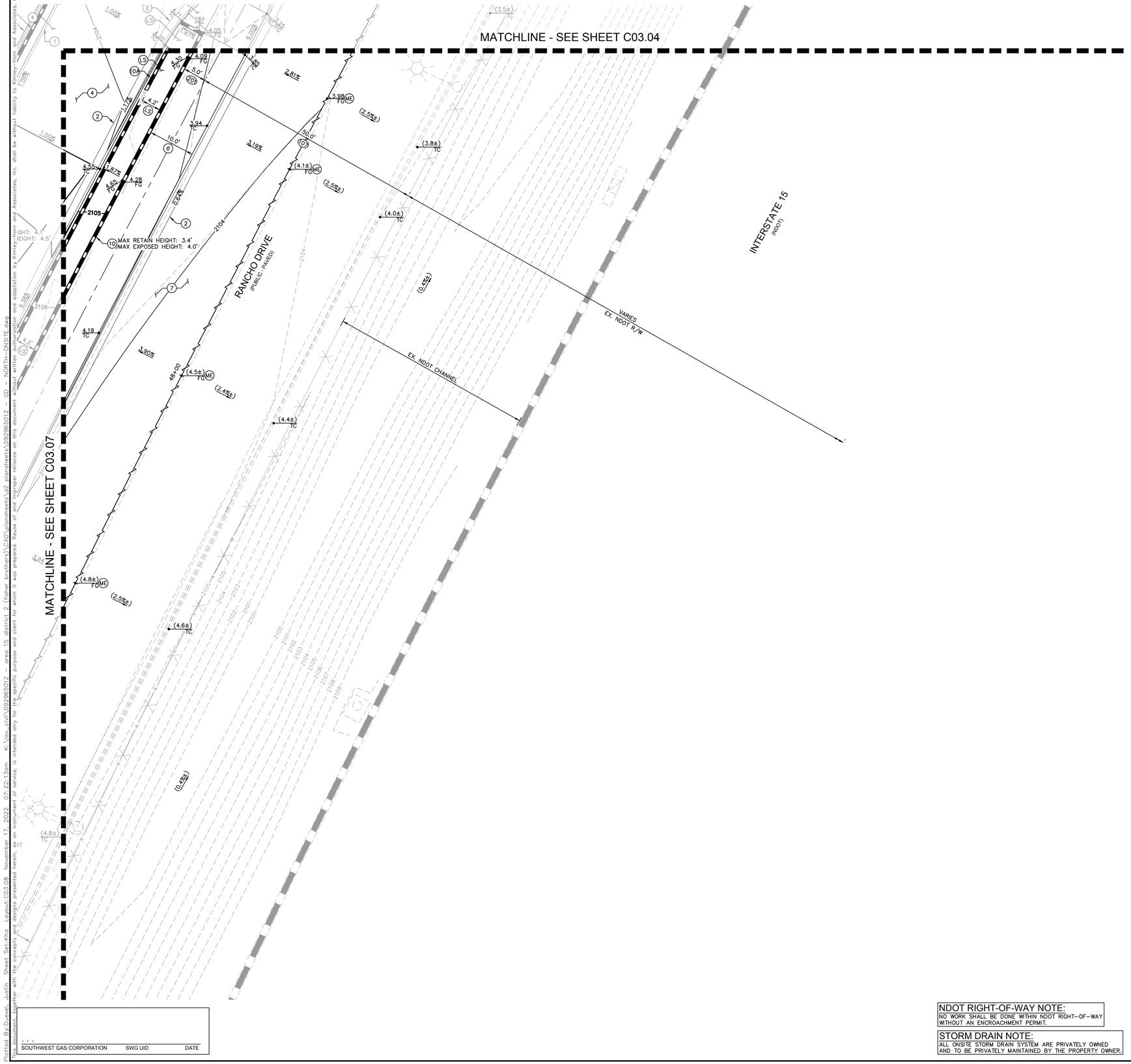
11/16/2022

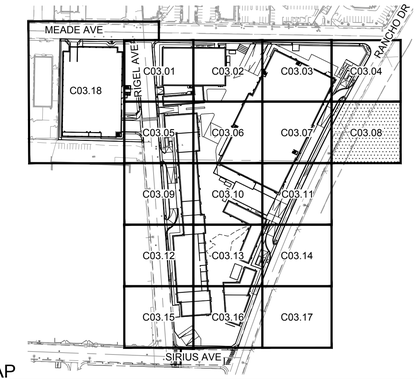
KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 7

AREA 15 DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

19 OF 35 SHEETS
C03.07





KEY MAP

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GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

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10. INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
10A. INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B-100-1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
LS. REFER TO LANDSCAPE PLANS FOR DETAILS.
ME. MATCH EXISTING

RIGHT-OF-WAY AND EASEMENTS

107. EX. RANCHO DR R/W PER DOC #0329:0288327.
201. PR. PEDESTRIAN ACCESS EASEMENT PER DOC #_____.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
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SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

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AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
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No.	REVISIONS	DATE	BY

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PHONE: 702-862-3500
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS A. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

K=H PROJECT			
092965011			
DATE			
11/16/2022			
SCALE	AS SHOWN		
DESIGNED BY	TEA		
DRAWN BY	TEA		
CHECKED BY	TEA		

GRADING PLAN - SHEET 8

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

20 OF 35 SHEETS
C03.08

Plotted By:Durkel, Justin Sheet Set:Kng Layout:C03.08 November 17, 2022 07:22:13am K:\Lav_civil\092965012 area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - NORTH - ONSITE.dwg
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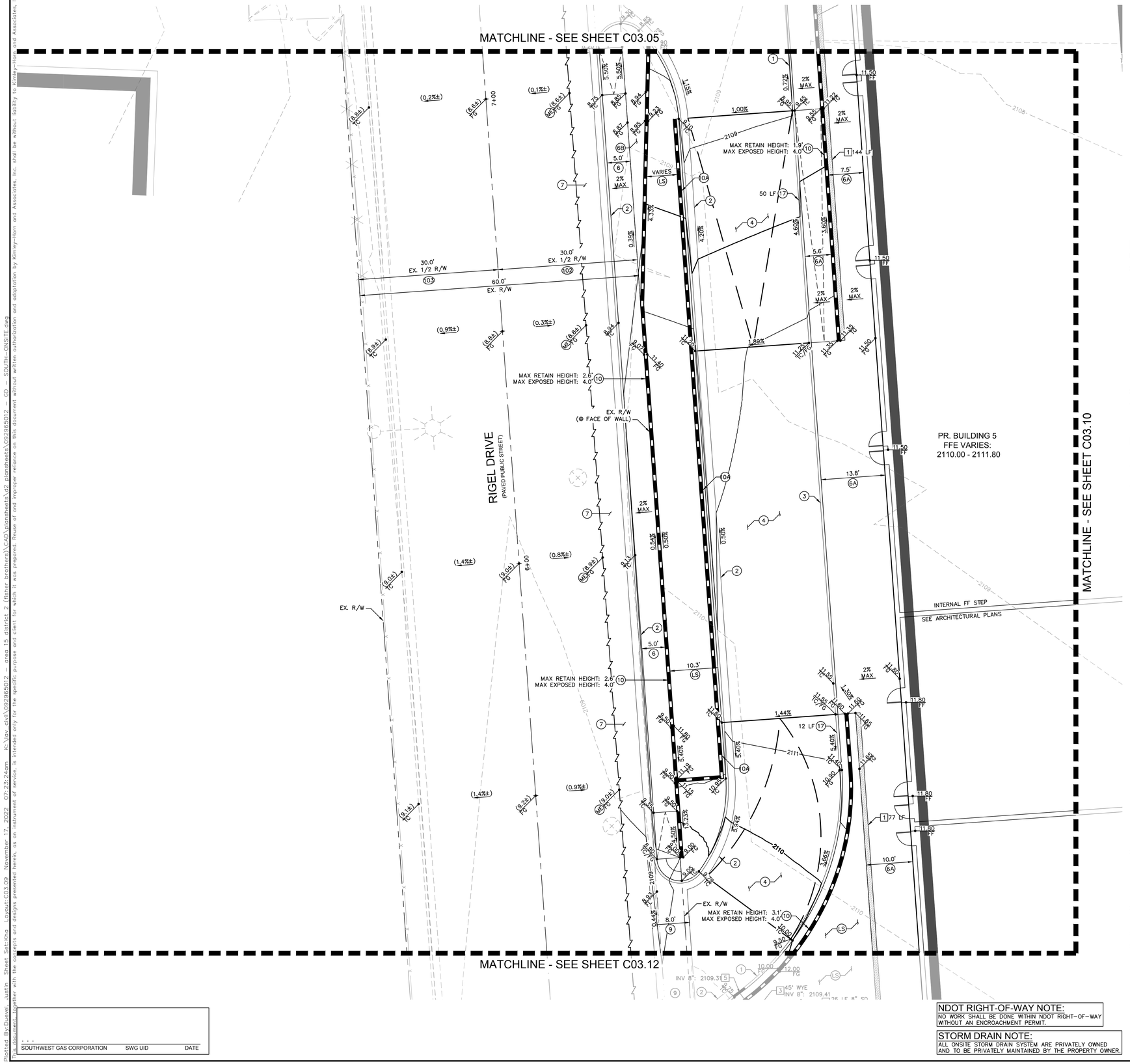

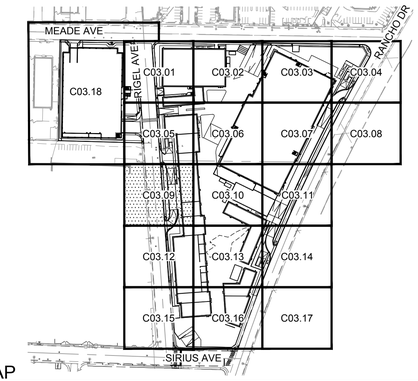

KEY MAP

NTS

GENERAL NOTES

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GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

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6. INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
6A. INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTURAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
6B. INSTALL CONCRETE 4" CONCRETE WALK (NON ADA) PER CCAUSD NO. 234. LOCATED BEHIND R/W TO FACE OF WALL.
7. INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
9. INSTALL COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1 AND 225.
10. INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
04. INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B-100-1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
17. INSTALL TRANSITION FROM MODIFIED TYPE 'A' CURB TO 0" FACE CURB.
LS. REFER TO LANDSCAPE PLANS FOR DETAILS.
ME. MATCH EXISTING

STORM DRAIN NOTES

1. INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.
2. INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.
3. INSTALL PVC FITTING, SIZE PER PIPE. TYPE AS NOTED ON PLANS.
5. INSTALL CURB-O-LET MODEL No. TCD35-NS, PER DETAIL 8 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT INLET PIPE TO CURB-O-LET.

RIGHT-OF-WAY AND EASEMENTS

102. EX. RIGEL AVE R/W PER DOC #0452:0364174.
103. EX. RIGEL AVE R/W PER DOC #0020:0018943.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118EE6"

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NORTH

GRAPHIC SCALE IN FEET
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SOUTHWEST GAS CORPORATION | SWG UID | DATE

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PROFESSIONAL ENGINEER
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CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 9

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

21 OF 35 SHEETS
C03.09

Plotted By:Durvell, Justin Sheet Set:Kha Layout:C03.09 November 17, 2022 07:23:24pm K:\Lv-civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\c03 plansheets\092965012 - GD - SOUTH-ONSITE.dwg
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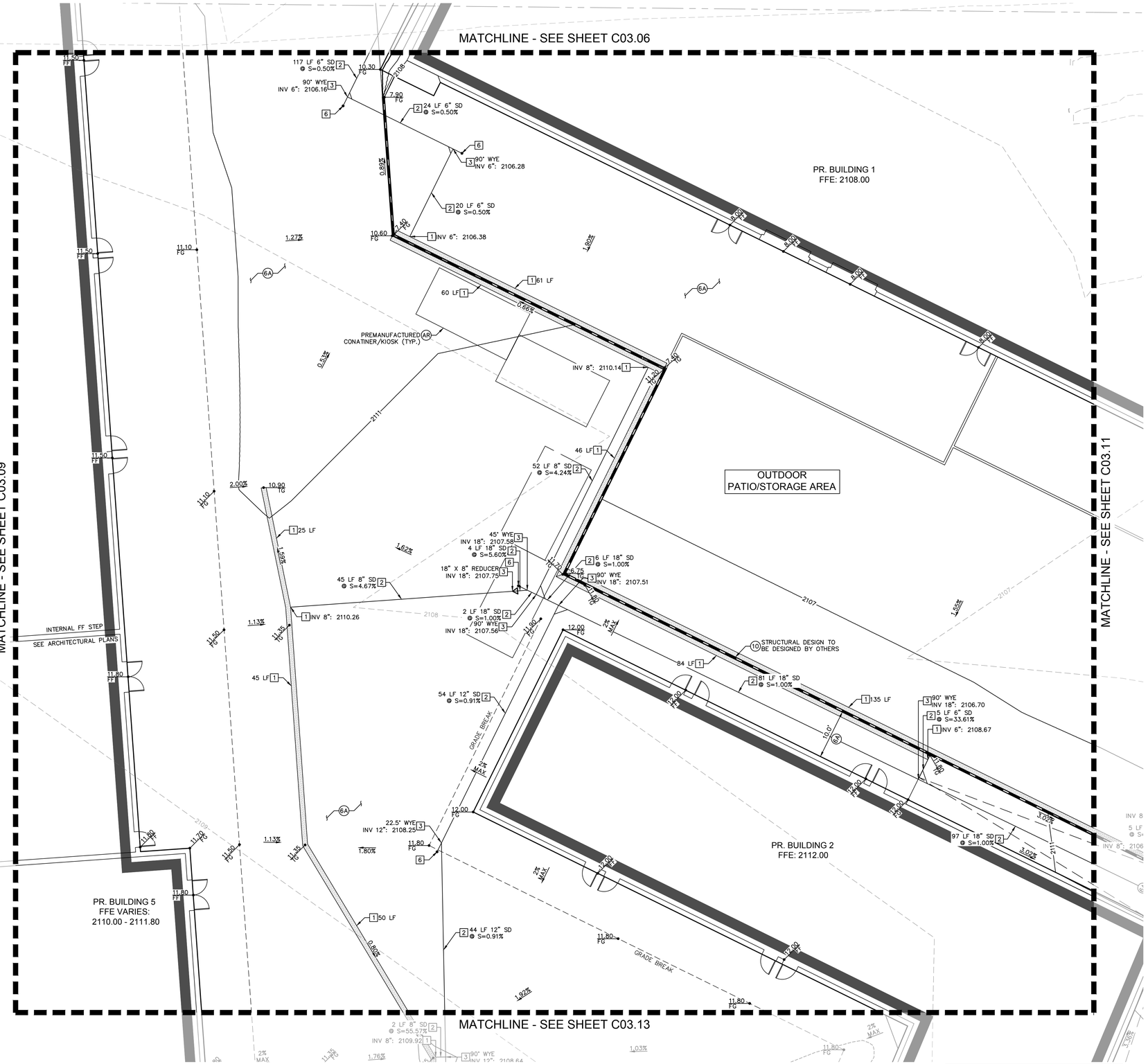

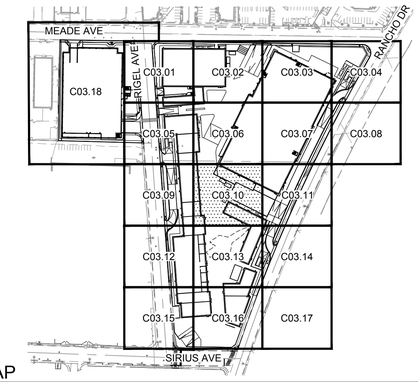

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(AR) REFER TO ARCHITECTURAL PLANS FOR DETAILS.

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.

[2] INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.

[3] INSTALL PVC FITTING, SIZE PER PIPE. TYPE AS NOTED ON PLANS.

[6] INSTALL 4" STORM DRAIN CLEANOUT.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

NDOT RIGHT-OF-WAY NOTE:
NO WORK SHALL BE DONE WITHIN NDOT RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT.

STORM DRAIN NOTE:
ALL ONSITE STORM DRAIN SYSTEM ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

. . .
SOUTHWEST GAS CORPORATION SWG UID DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call before you UnderGround 1-702-432-5300
Call 811 or 1-800-642-2444
Avoid overhead power line contact. It's costly.
Call Before You Overhead 1-702-227-2929

No.	REVISIONS	DATE	BY

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

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT	092965011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 10

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

22 OF 35 SHEETS
C03.10

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C03.10 November 17, 2022 07:23:46pm K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - SOUTH-ONSITE.dwg
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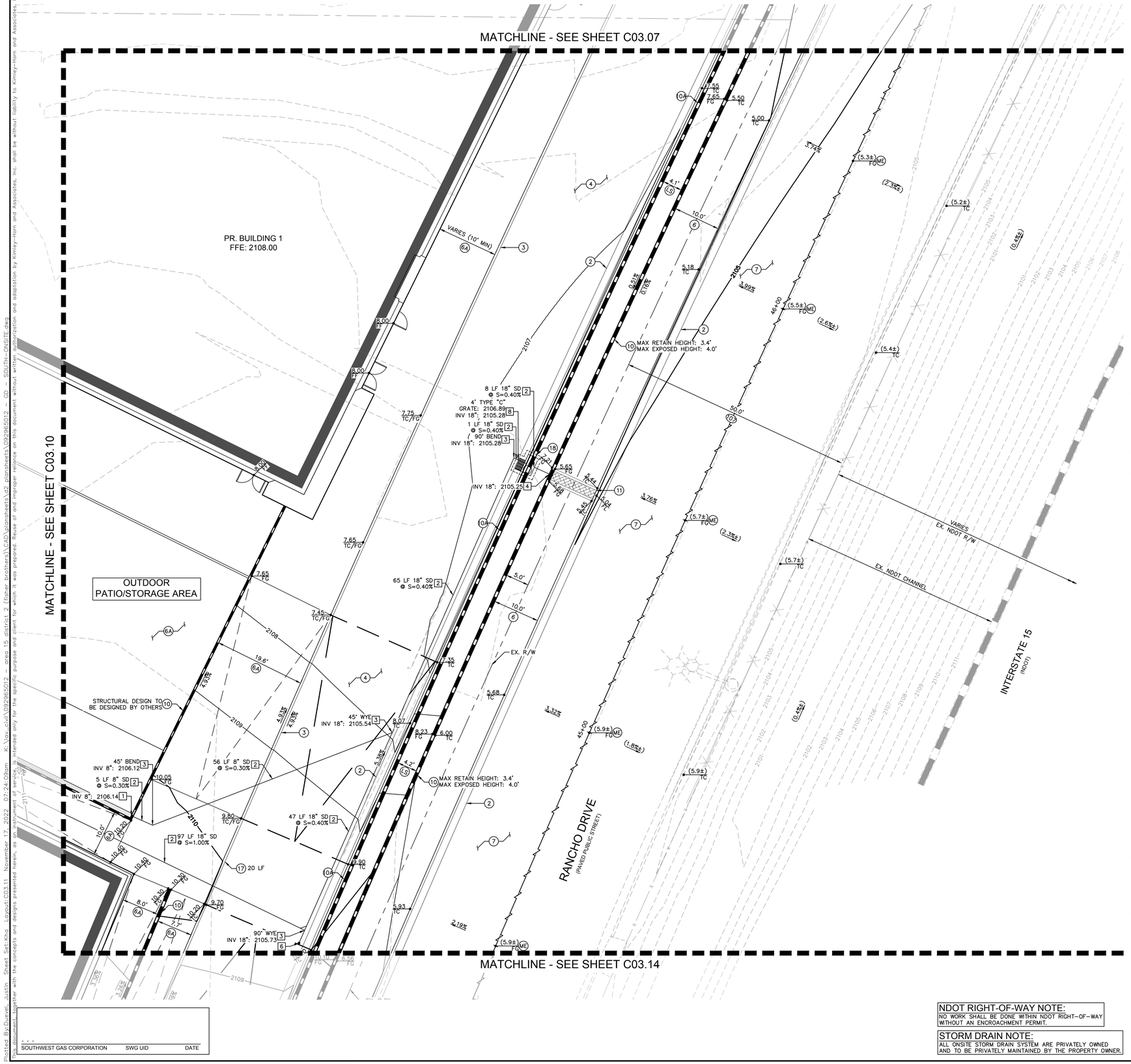

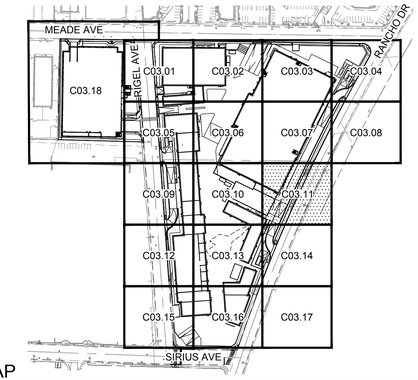

KEY MAP

NTS

GENERAL NOTES

1. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
5. THE CONTRACTOR SHALL PROTECT IN PLACE EX. IMPROVEMENTS, THAT ARE NOTED TO REMAIN, DURING DEMOLITION AND CONSTRUCTION.
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7. ANY EXISTING STRUCTURE(S), IMPROVEMENT(S), AND/OR APPURTENANCE(S) TO REMAIN, WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION, SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(3) INSTALL 0" FACE CURB PER DETAIL 2 ON SHEET C03.26.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(10A) INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B-100-1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
(11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.
(17) INSTALL TRANSITION FROM MODIFIED TYPE 'A' CURB TO 0" FACE CURB.
(18) CONTRACTOR SHALL MAINTAIN WALL. (LEAVE OUT 1 COURSE TO ALLOW ACCESS TO DROP INLET FOR 2 BLOCKS ON EITHER SIDE OF PR. INLET.)
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(ME) MATCH EXISTING

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.
[2] INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.
[3] INSTALL PVC FITTING, SIZE PER PIPE. TYPE AS NOTED ON PLANS.
[4] OUTLET STORM DRAIN PIPE THROUGH PERIMITER FLOOD WALL. PIPE INVERT SHALL BE FLUSH WITH SIDEWALK UNDERDRAIN FLOWLINE ELEVATION.
[6] INSTALL 4" STORM DRAIN CLEANOUT.
[8] 5=INSTALL 'TYPE C' DROP INLET PER CCAUSD No. 412 WITH STORMWATER QUALITY STAMP PER CCAUSD No. 421.

RIGHT-OF-WAY AND EASEMENTS

(107) EX. RANCHO DR R/W PER DOC #0329:0288327.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

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NORTH

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STATE OF NEVADA

11/16/2022

No.	REVISIONS	DATE	BY

KHA PROJECT 092965011
DATE 11/16/2022
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY TEA
CHECKED BY TEA

GRADING PLAN - SHEET 11

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

23 OF 35 SHEETS
C03.11

Posted By:Duevel, Justin Sheet Set:Kmp Layout:C03.11 November 17, 2022 07:24:08am K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - SOUTH-ONSITE.dwg
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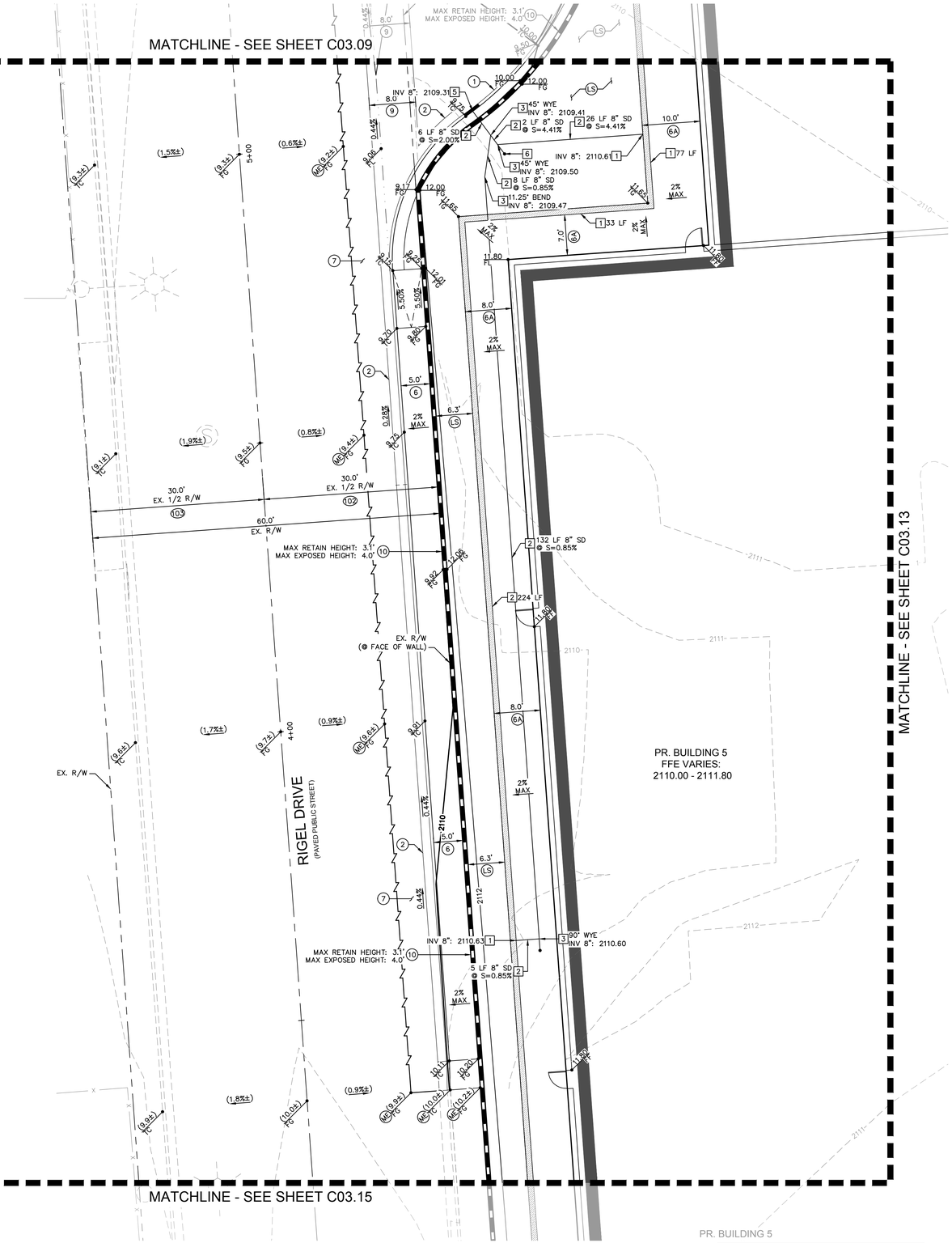

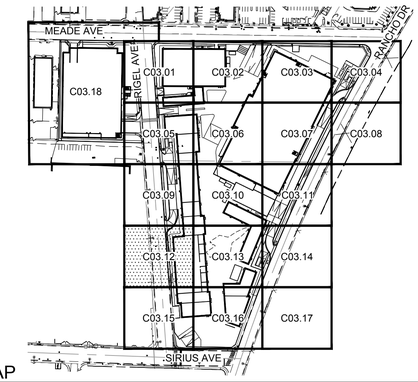

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ENGINEER: NINYO & MOORE
DATED: 10/31/2022
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REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

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7. INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
9. INSTALL COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1 AND 225.
10. INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
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3. INSTALL PVC FITTING, SIZE PER PIPE. TYPE AS NOTED ON PLANS.
5. INSTALL CURB-O-LET MODEL No. TCD35-NS, PER DETAIL 8 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT INLET PIPE TO CURB-O-LET.
6. INSTALL 4" STORM DRAIN CLEANOUT.

RIGHT-OF-WAY AND EASEMENTS

102. EX. RIGEL AVE R/W PER DOC #0452:0364174.
103. EX. RIGEL AVE R/W PER DOC #0020:0018943.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

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No. 18592

11/16/2022

KHA PROJECT	092965011
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DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 12

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

24 OF 35 SHEETS
C03.12

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C03.12 November 17, 2022 07:24:35am K:\lav_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - SOUTH-ONSITE.dwg
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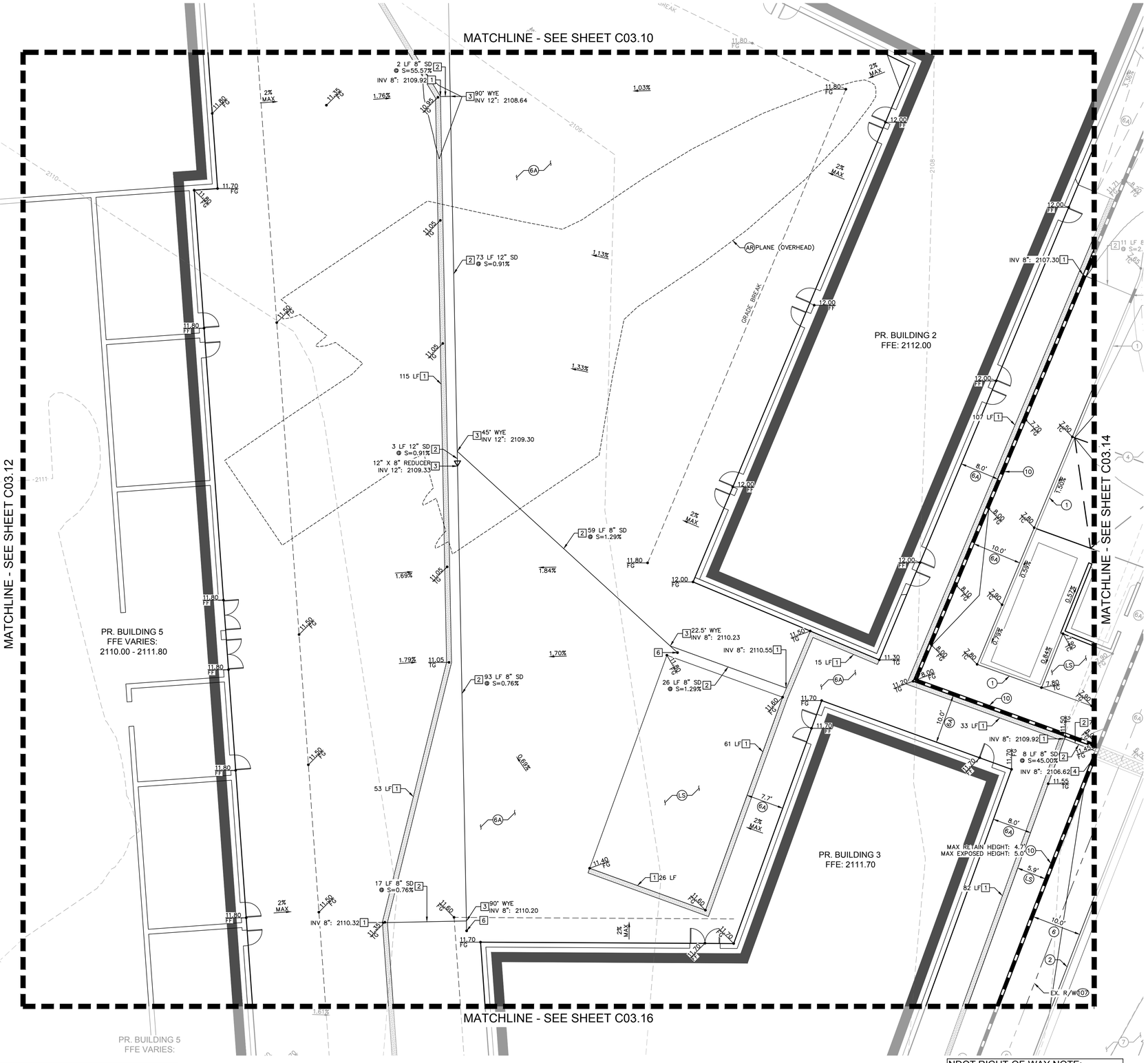

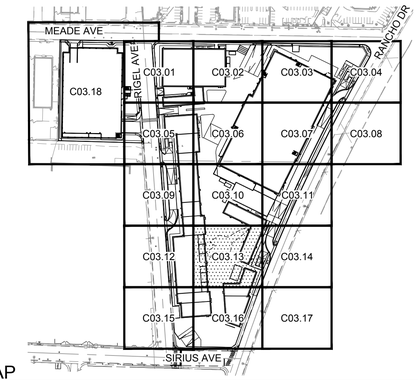

KEY MAP

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ENGINEER: NINYO & MOORE
DATED: 10/31/2022
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25 OF 35 SHEETS
C03.13

Plotted By:Durvell, Justin Sheet Set:Kha Layout:C03.13 November 17, 2022 07:25:10am K:\Civ_civil\092965012 - GD - SOUTH-ONSITE.dwg
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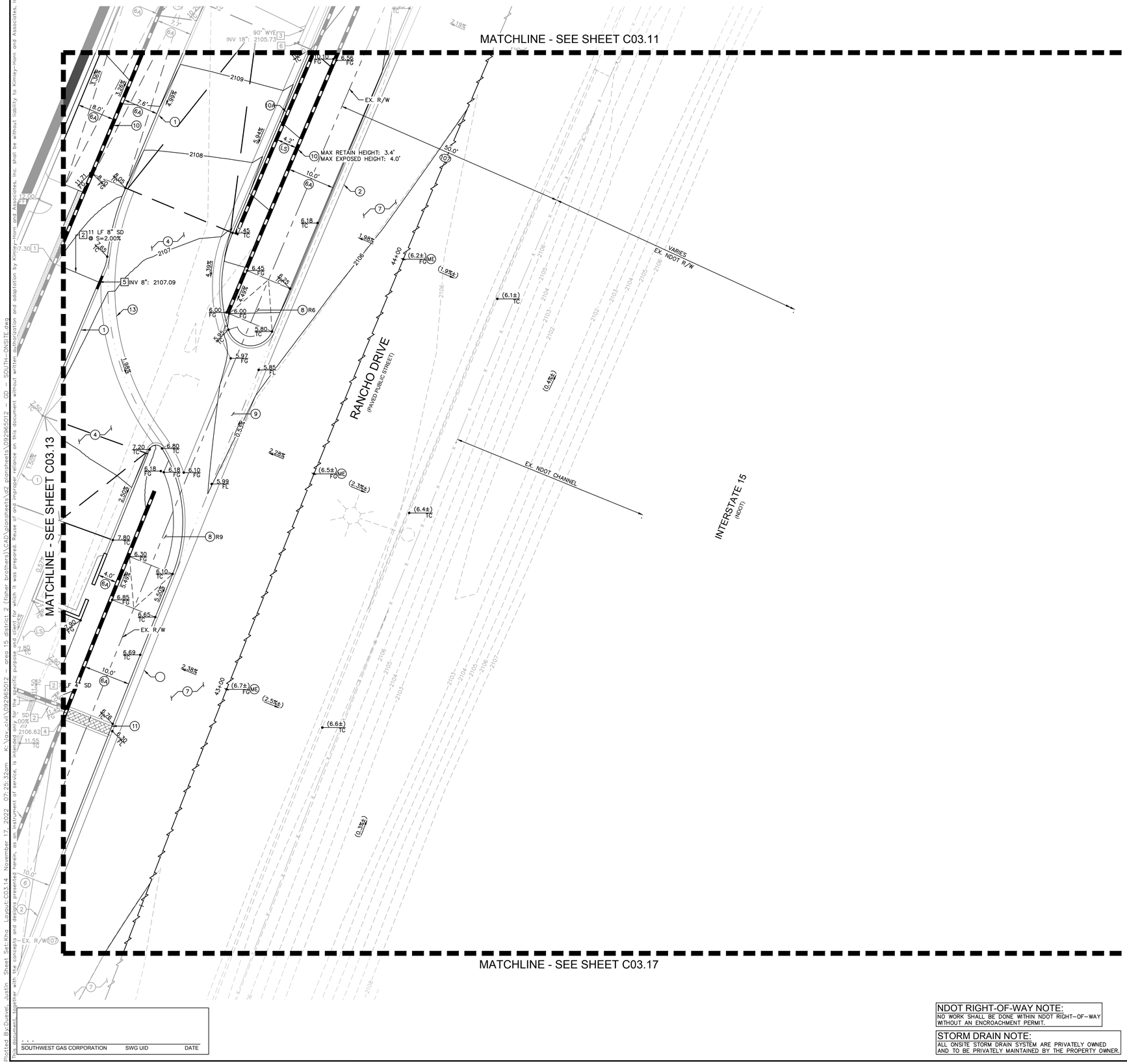

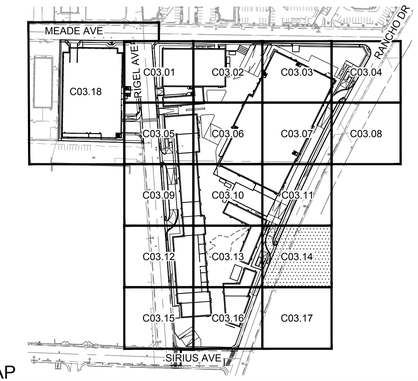

KEY MAP

NTS

GENERAL NOTES

1. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
5. THE CONTRACTOR SHALL PROTECT IN PLACE EX. IMPROVEMENTS, THAT ARE NOTED TO REMAIN, DURING DEMOLITION AND CONSTRUCTION.
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8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(1) INSTALL MODIFIED TYPE 'A' CONCRETE CURB PER DETAIL 1 ON SHEET C03.26.
(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(8) INSTALL ADA SIDEWALK RAMP, I.D. AS NOTED ON PLAN. REFER TO DETAILS ON SHEET C03.23–C03.25 FOR RAMP I.D., GEOMETRY AND GRADES.
(9) INSTALL COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1 AND 225.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B–100–2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(10A) INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B–100–1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
(11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.
(13) INSTALL 6' WIDE VALLEY GUTTER PER DETAIL 4 ON SHEET C03.26.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(ME) MATCH EXISTING

STORM DRAIN NOTES

[1] INSTALL Z886–HDG–LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.
[2] INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.
[3] INSTALL PVC FITTING, SIZE PER PIPE. TYPE AS NOTED ON PLANS.
[4] OUTLET STORM DRAIN PIPE THROUGH PERIMITER FLOOD WALL. PIPE INVERT SHALL BE FLUSH WITH SIDEWALK UNDERDRAIN FLOWLINE ELEVATION.
[5] INSTALL CURB–O–LET MODEL No. TCD35–NS, PER DETAIL 8 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT INLET PIPE TO CURB–O–LET.
[6] INSTALL 4" STORM DRAIN CLEANOUT.

RIGHT-OF-WAY AND EASEMENTS

(107) EX. RANCHO DR R/W PER DOC #0329:0288327.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "SLV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

NDOT RIGHT-OF-WAY NOTE:
NO WORK SHALL BE DONE WITHIN NDOT RIGHT–OF–WAY WITHOUT AN ENCROACHMENT PERMIT.

STORM DRAIN NOTE:
ALL ONSITE STORM DRAIN SYSTEM ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call before you UnderGround 1-702-432-5300
Call 811 or 1-800-642-2444
Avoid overhead power line contact. It's costly.
Call Before You Overhead 1-702-227-2929

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY–HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702–862–3000
WWW.KIMLEY–HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
Exp. 12/31/22
CIVIL
STATE OF NEVADA
No. 18597

11/16/2022

KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
092965011	11/16/2022	AS SHOWN	TEA	TEA	TEA

GRADING PLAN - SHEET 14

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA

CITY OF LAS VEGAS

26 OF 35 SHEETS
C03.14

Plotted By:Duevel, Justin Sheet Set:Kng Layout:C03.14 November 17, 2022 07:25:32am K:\Las_civil\092965012_area 15 district 2 (fisher brothers)\CAD\plansheets\d2 plansheets\092965012 – GD – SOUTH–ONSITE.dwg
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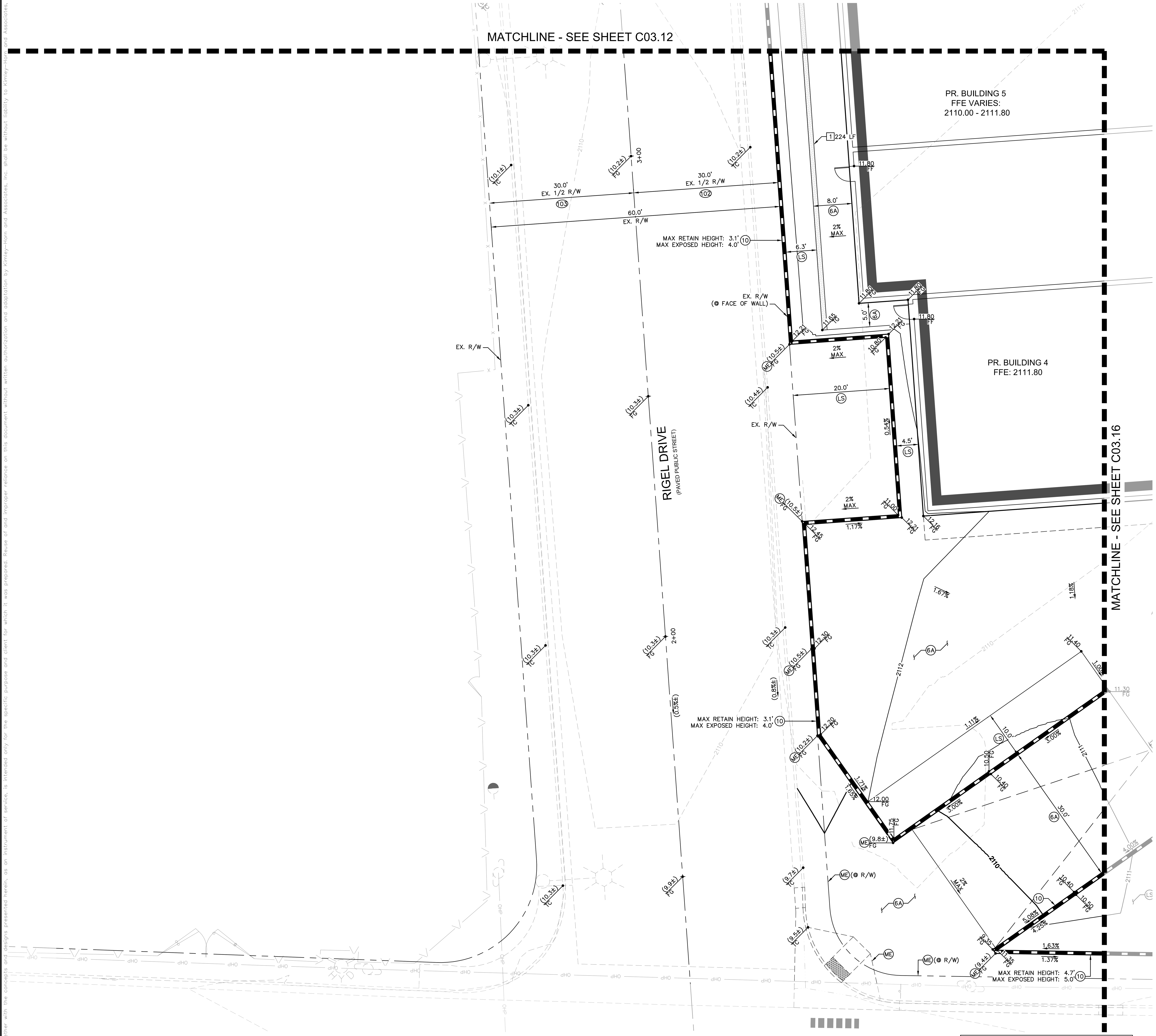

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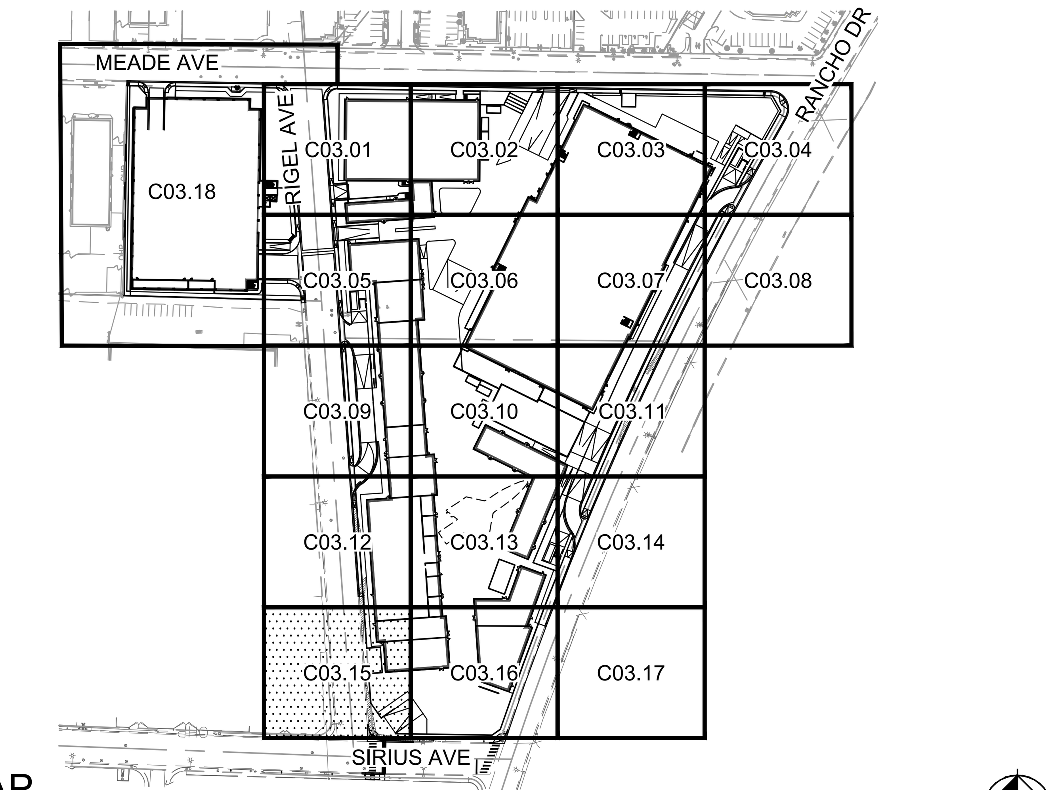

KEY MAP
NTS

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GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.

(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.

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(ME) MATCH EXISTING

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RIGHT-OF-WAY AND EASEMENTS

(102) EX. RIGEL AVE R/W PER DOC #0452:0364174.

(103) EX. RIGEL AVE R/W PER DOC #0020:0018943.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

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ELEVATION = 635.481 METERS
2084.91 FEET

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NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

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6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

No.	REVISIONS	DATE	BY

PROFESSIONAL ENGINEER STATE OF NEVADA
THOMAS ACKERET
Exp. 12/31/22
CIVIL
No. 18592
11/16/2022

KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
092965011	11/16/2022	AS SHOWN	TEA	TEA	TEA

GRADING PLAN - SHEET 15

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

Plotted By: Duevel, Justin Sheet Set: Kha Layout: C03.15 November 17, 2022 07:25:54am K:\lav_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\d2 plansheets\092965012 - GD - SOUTH-ONSITE.dwg
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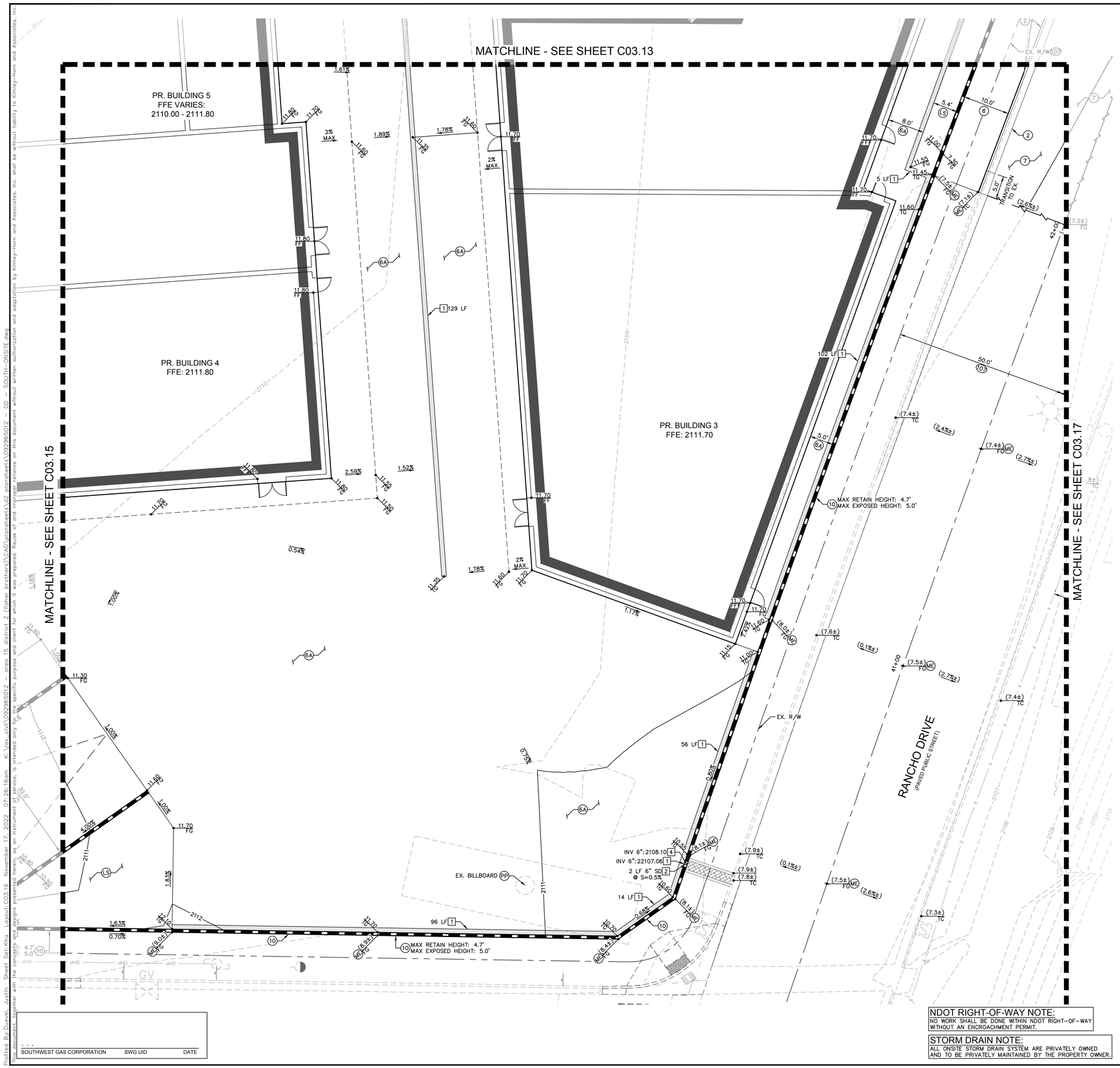

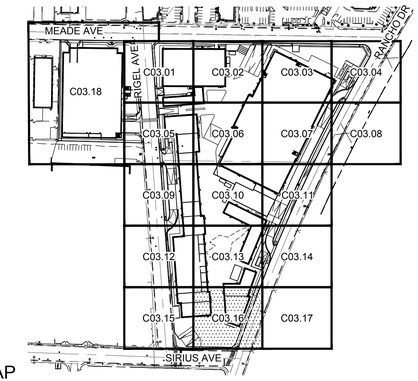

KEY MAP

NTS

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GEOTECHNICAL REPORT

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ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

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CONSTRUCTION NOTES

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(ME) MATCH EXISTING

(PP) PROTECT IN PLACE

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RIGHT-OF-WAY AND EASEMENTS

(107) EX. RANCHO DR R/W PER DOC #0329:0288327.

BENCHMARK

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BENCHMARK No. "5LV118NEE6"

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GRAPHIC SCALE IN FEET
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Kimley»Horn
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6671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3500
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT	092905011
DATE	11/16/2022
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	TEA
CHECKED BY	TEA

GRADING PLAN - SHEET 16

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

28 OF 35 SHEETS
C03.16

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C03.16 November 17, 2022 07:26:16pm K:\lav_civil\092905012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092905012 - GD - SOUTH-ONSITE.dwg
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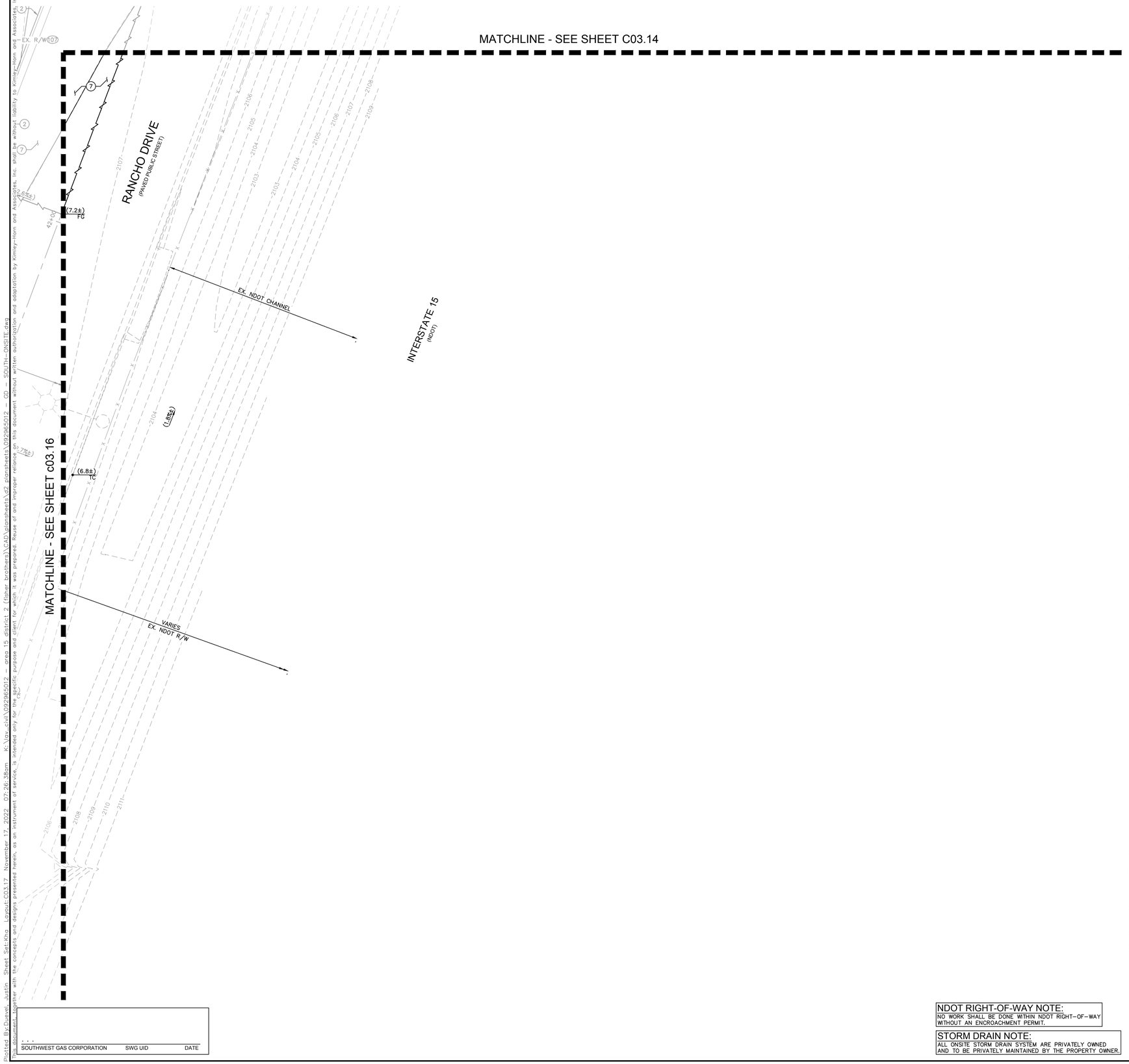
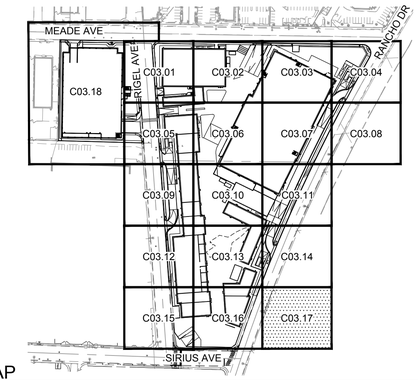
MATCHLINE - SEE SHEET C03.14



SOUTHWEST GAS CORPORATION | SWG UID | DATE



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GRAPHIC SCALE IN FEET
0 5 10 20

NDOT RIGHT-OF-WAY NOTE:
NO WORK SHALL BE DONE WITHIN NDOT RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT.

STORM DRAIN NOTE:
ALL ONSITE STORM DRAIN SYSTEM ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
CALL BEFORE YOU DIG UNDERGROUND
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (FAST)
Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR
1-800-642-2444
Avoid overhead power line contact. It's costly.
Call Before You Overhead
1-702-227-2929

No.	REVISIONS	DATE	BY

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

PROFESSIONAL ENGINEER
THOMAS A. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA

11/16/2022

KHA PROJECT 092965011	DATE 11/16/2022	SCALE AS SHOWN	DESIGNED BY TEA	DRAWN BY TEA	CHECKED BY TEA

GRADING PLAN - SHEET 17

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
CITY OF LAS VEGAS NEVADA

29 OF 35 SHEETS
C03.17

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C03.17 November 17, 2022 07:26:38am K:\lav_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - SOUTH - ONSITE.dwg
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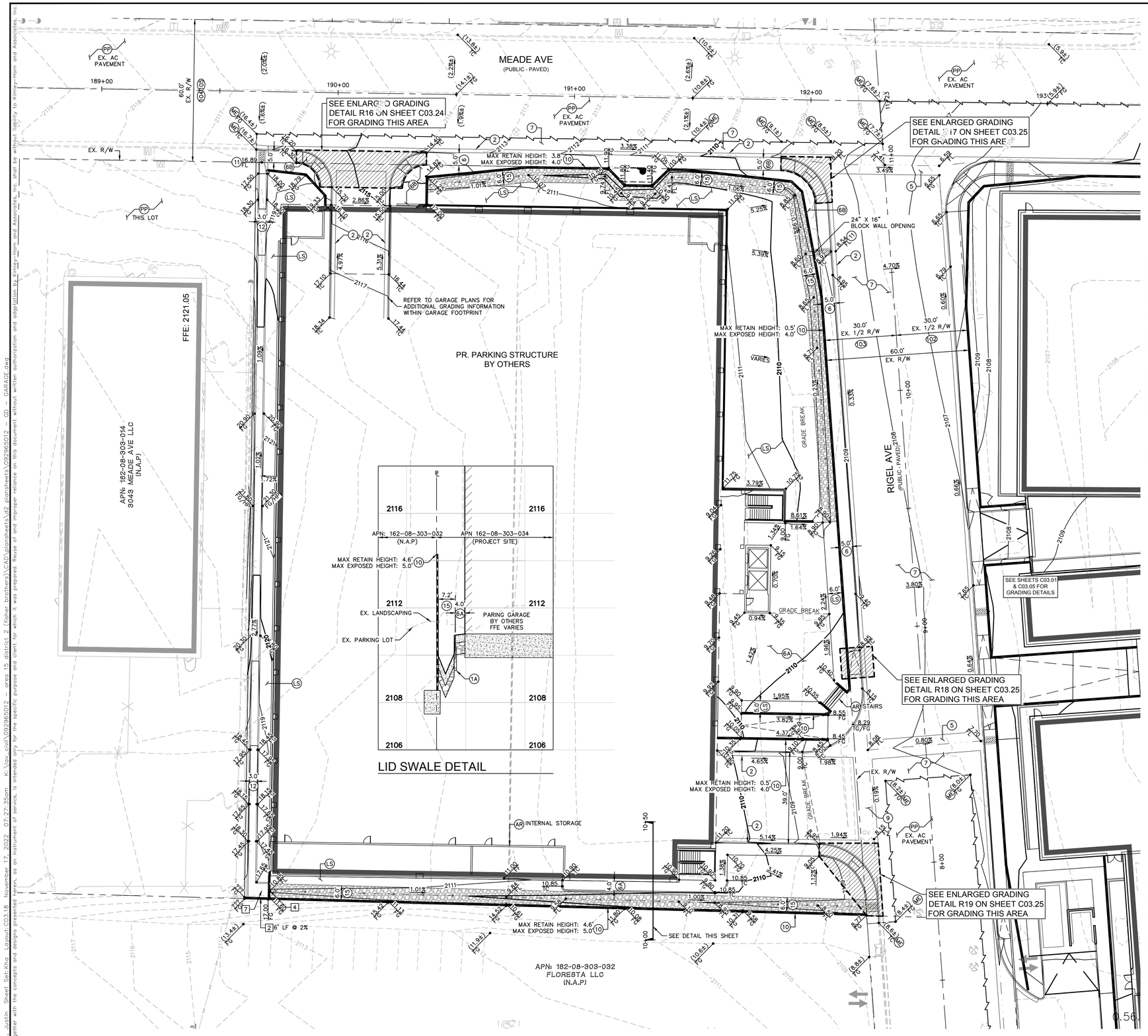

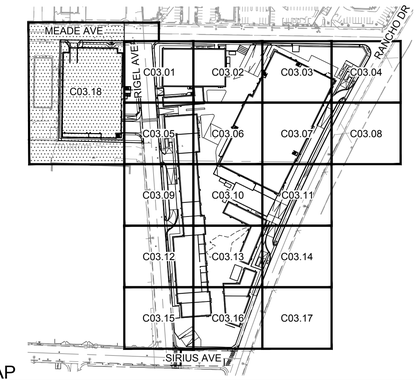

KEY MAP

NTS

GENERAL NOTES

1. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL VERIFY EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
4. THE CONTRACTOR SHALL VERIFY EX. IMPROVEMENTS SHOWN ON THE PLAN AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
5. THE CONTRACTOR SHALL PROTECT IN PLACE EX. IMPROVEMENTS, THAT ARE NOTED TO REMAIN, DURING DEMOLITION AND CONSTRUCTION.
6. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND PROTECT IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.
7. ANY EXISTING STRUCTURE(S), IMPROVEMENT(S), AND/OR APPURTENANCE(S) TO REMAIN, WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION, SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
8. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
9. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
10. ADD 2100.00 TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: NINYO & MOORE
DATED: 10/31/2022
PROJECT No: 304970001

FLOOD ZONE NOTE

REFER TO SHEET C03.00 FOR FLOOD ZONE NOTES.

STORMWATER COMPLIANCE NOTES

REFER TO SHEET C03.00 FOR STORM WATER COMPLIANCE NOTES.

CONSTRUCTION NOTES

- (1A) INSTALL VARIABLE HEIGHT CURB MODIFIED TYPE 'A' CURB.
- (2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
- (5) INSTALL CONCRETE CROSS GUTTER PER CCAUSD No. 228.
- (6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
- (6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
- (6B) INSTALL CONCRETE 4" CONCRETE WALK (NON ADA) PER CCAUSD NO. 234. LOCATED BEHIND R/W TO FACE OF WALL.
- (7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
- (9) INSTALL COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1 AND 225.
- (10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
- (11) INSTALL SIDEWALK UNDERDRAIN PER CCAUSD No. 236.
- (12) INSTALL CONCRETE FLUME PER DETAIL 3 ON SHEET C03.26, WIDTH AS NOTED ON PLANS.
- (15) INSTALL LID RIP-RAP SWALE (1% MAX SLOPE) PER DETAIL 5 ON SHEET C03.26
- (AR) REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- (LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
- (ME) MATCH EXISTING
- (PP) PROTECT IN PLACE

STORM DRAIN NOTES

- (2) INSTALL PVC STORM DRAIN PIPE WITH EXCAVATION, BACKFILL, AND TYPE 2 BEDDING PER CCAUSD No.503.1. SIZE, LENGTH, AND SLOPE AS NOTED ON PLANS.
- (4) OUTLET STORM DRAIN PIPE THROUGH PERIMITER FLOOD WALL. PIPE INVERT SHALL BE FLUSH WITH SIDEWALK UNDERDRAIN FLOWLINE ELEVATION.
- (7) INSTALL 24"X24" JENSEN PRECAST INLET PER DETAIL 7 ON SHEET C03.26 WITH STORMWATER QUALITY STAMP PER CCAUSD No. 421 WITH A BOLT DOWN TOP.

RIGHT-OF-WAY AND EASEMENTS

- (102) EX. RIGEL AVE R/W PER DOC #0452:0364174.
- (103) EX. RIGEL AVE R/W PER DOC #0020:0018943.
- (104) EX. MEADE AVE R/W PER DOC #0000:0232884.
- (105) EX. MEADE AVE R/W PER DOC #0000:0288327.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

STORM DRAIN NOTE:
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Avoid cutting underground utility lines. It's costly.
Call before you UnderGround 1-702-432-5300
Call 811 OR 1-800-642-2444
Avoid overhead power line contact. It's costly.
Call Before You Overhead 1-702-227-2929

No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 702-862-3000
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592 Exp. 12/31/22
STATE OF NEVADA
11/16/2022

KHA PROJECT	092365011		
DATE	11/16/2022		
SCALE	AS SHOWN		
DESIGNED BY	TEA		
DRAWN BY	TEA		
CHECKED BY	TEA		

GRADING PLAN - GARAGE

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

30 OF 35 SHEETS
C03.18

Plotted By: Durrell Justin Sheet Set: Kha Layout: C03.18 November 17, 2022 07:27:35pm K:\lvv-civil\092365012 - area 15 district 2 (fisher brothers)\CAD\plansheets\c2 plansheets\092365012 - GD - GARAGE.dwg
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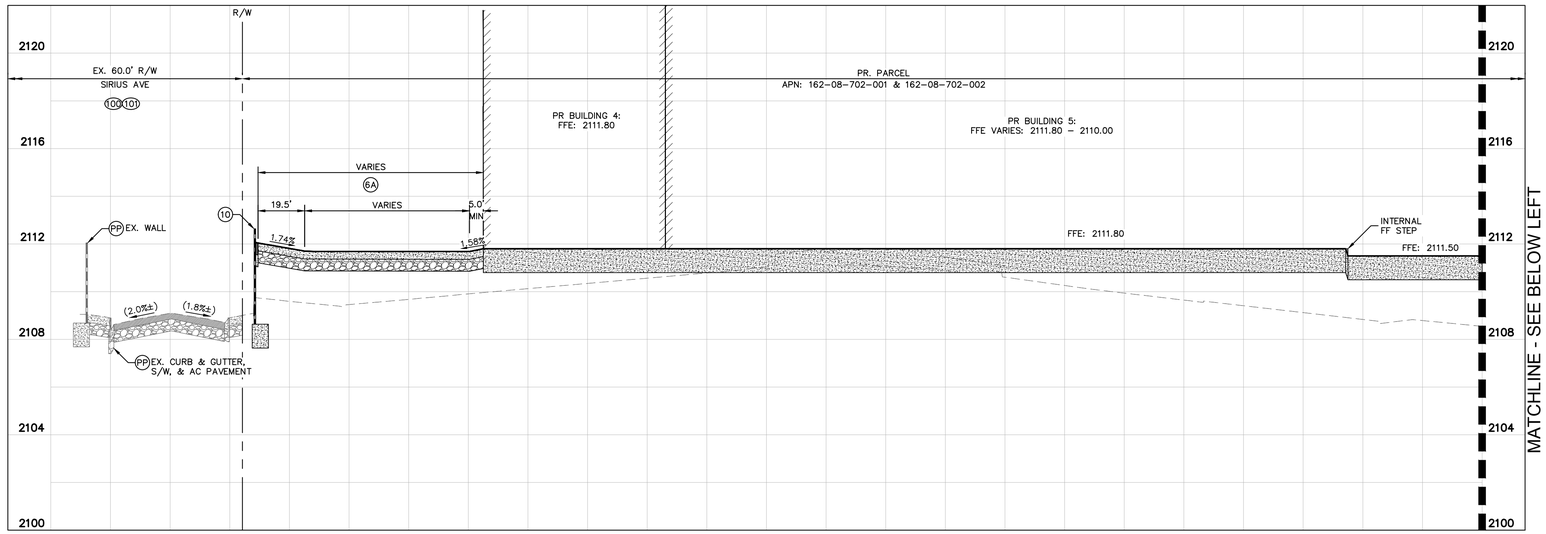
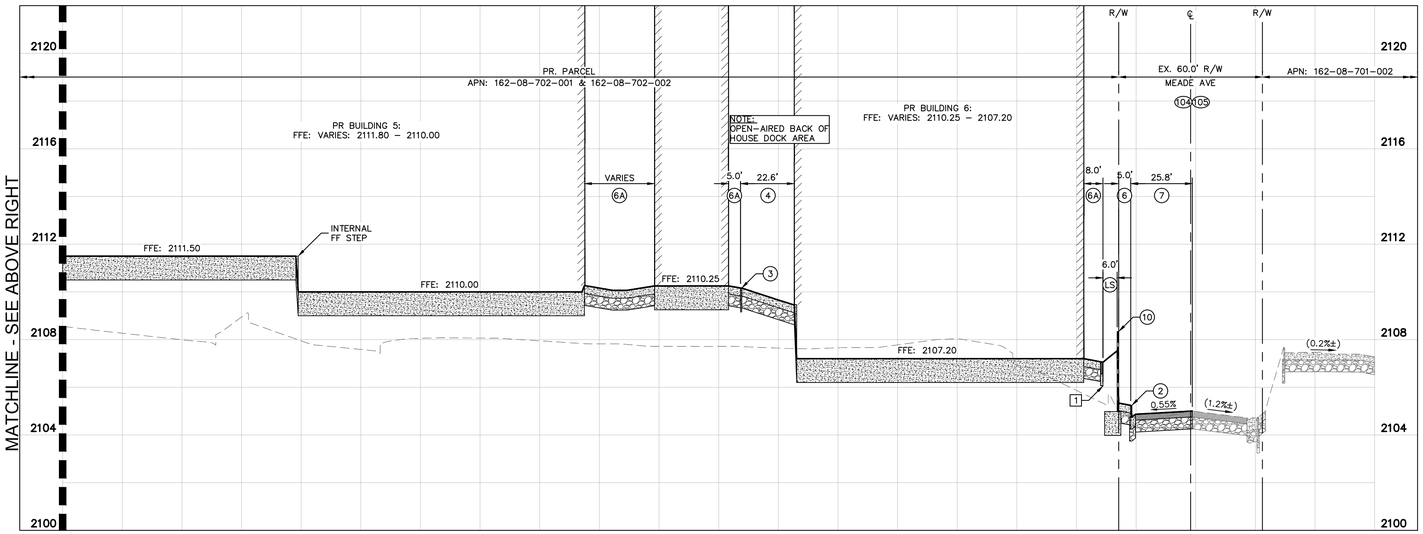


A C03.00 SECTION A



A C03.00 SECTION A CONTINUED

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
3. ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
4. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
5. ADD 2000' TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.

CONSTRUCTION NOTES

(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(3) INSTALL 0" FACE CURB PER DETAIL 2 ON SHEET C03.26.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(PP) PROTECT IN PLACE

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.

RIGHT-OF-WAY AND EASEMENTS

(100) EX. SIRIUS AVE R/W PER DOC #_____.
(101) EX. SIRIUS AVE R/W PER DOC #_____.
(104) EX. MEADE AVE R/W PER DOC #0000:0232884.
(105) EX. MEADE AVE R/W PER DOC #0000:0288327.

STORM DRAIN NOTE:
ALL ONSITE STORM DRAIN SYSTEM ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 1 2 4
VERTICAL

. . .
SOUTHWEST GAS CORPORATION SWG UID DATE

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT CONDUITS CALL BEFORE YOU DIG UNDERGROUND
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (FAST)

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PHONE: 702-862-3000
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PROFESSIONAL ENGINEER THOMAS ACKERET Exp. 12/31/22 CIVIL No. 18592 STATE OF NEVADA
11/16/2022

KHA PROJECT 092965011	DATE 11/16/2022	SCALE AS SHOWN	DESIGNED BY TEA	DRAWN BY TEA	CHECKED BY TEA

No.	REVISIONS	DATE	BY

GRADING SECTIONS - SHEET 1

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

31 OF 35 SHEETS
C03.19

Plotted By:Duevel, Justin Sheet Set:King Layout:C03.19 November 17, 2022 07:28:21am K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\092965012 - GD - SECTIONS.dwg
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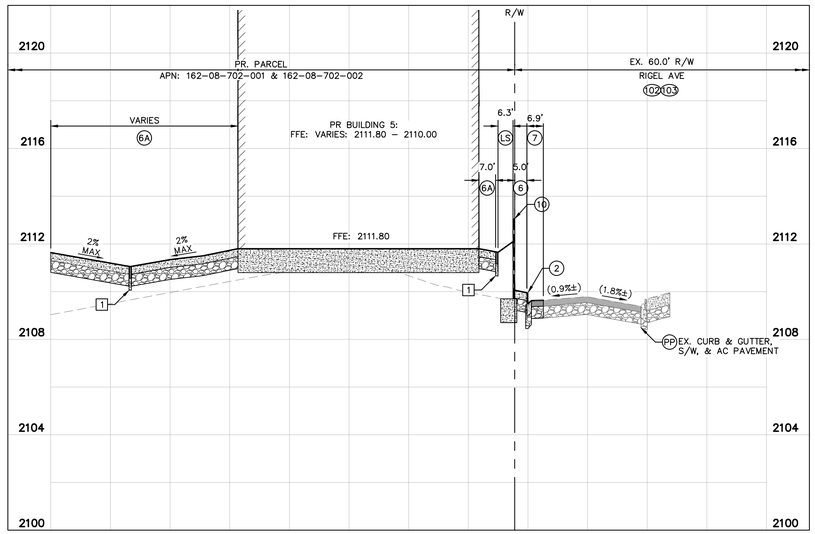
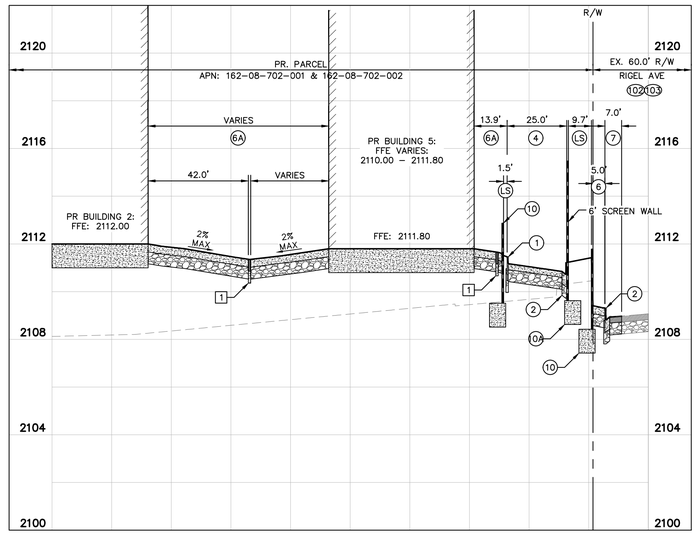


B C03.00 SECTION B



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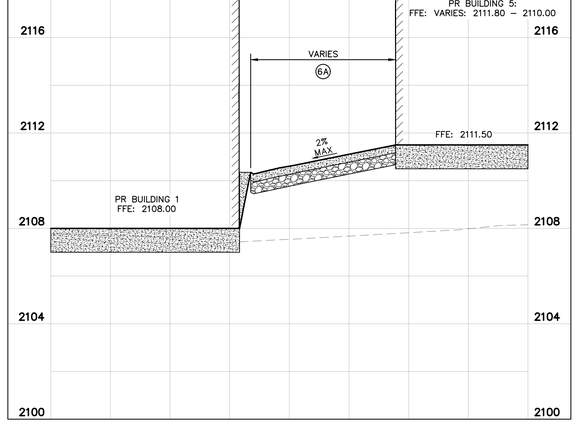

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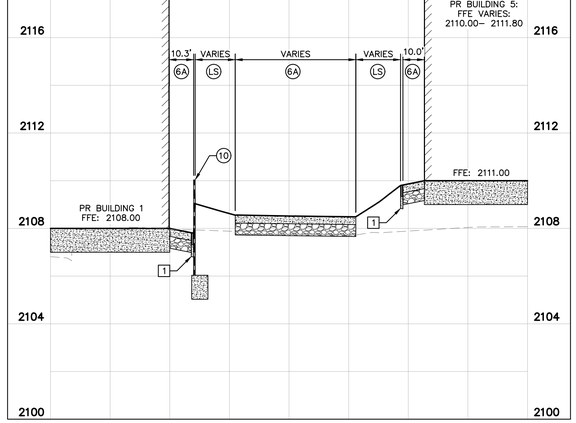
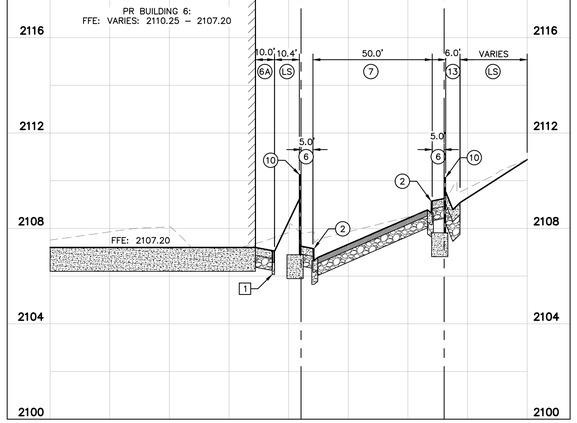


E C03.00 SECTION E



F C03.00 SECTION F

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
3. ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
4. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
5. ADD 2000' TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.

CONSTRUCTION NOTES

(1) INSTALL MODIFIED TYPE 'A' CONCRETE CURB PER DETAIL 1 ON SHEET C03.26.
(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(10A) INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B-100-1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
(13) INSTALL 6' WIDE VALLEY GUTTER PER DETAIL 4 ON SHEET C03.26.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(PP) PROTECT IN PLACE

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.

RIGHT-OF-WAY AND EASEMENTS

(102) EX. RIGEL AVE R/W PER DOC #0452:0364174.
(103) EX. RIGEL AVE R/W PER DOC #0020:0018943.

STORM DRAIN NOTE:
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BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

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GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 1 2 4
VERTICAL

SOUTHWEST GAS CORPORATION SWG UID DATE

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PROFESSIONAL ENGINEER THOMAS A. ACKERET Exp. 12/31/22 CIVIL No. 18592 STATE OF NEVADA

11/16/2022

No.	REVISIONS	DATE	BY

KHA PROJECT 092965011
DATE 11/16/2022
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY TEA
CHECKED BY TEA

GRADING SECTIONS - SHEET 2

AREA 15 DISTRICT 2

PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

32 OF 35 SHEETS
C03.20

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C03.20 November 17, 2022 07:28:29am K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\c03 plansheets\092965012 - GD - SECTIONS.dwg
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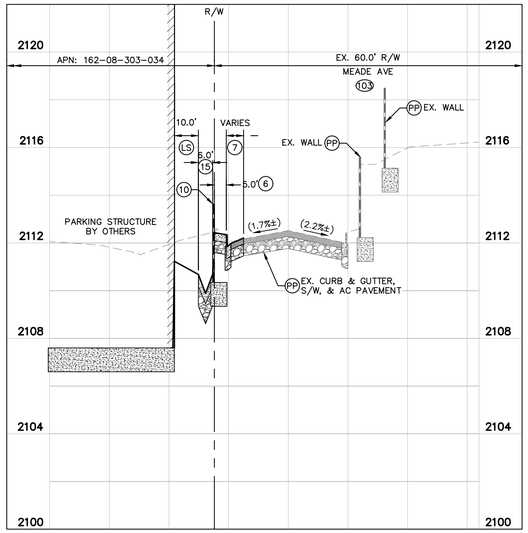
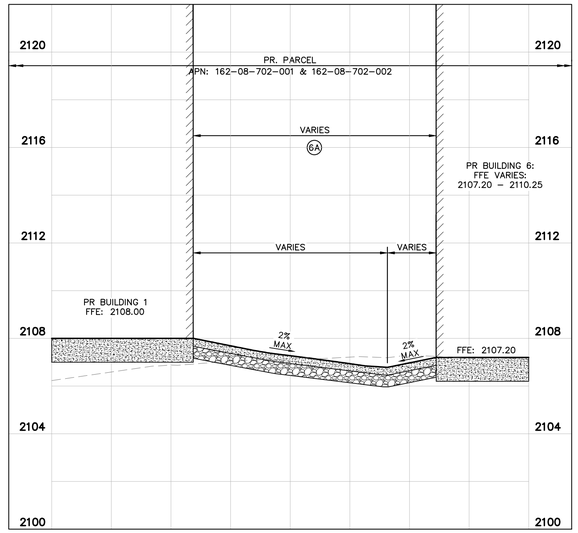
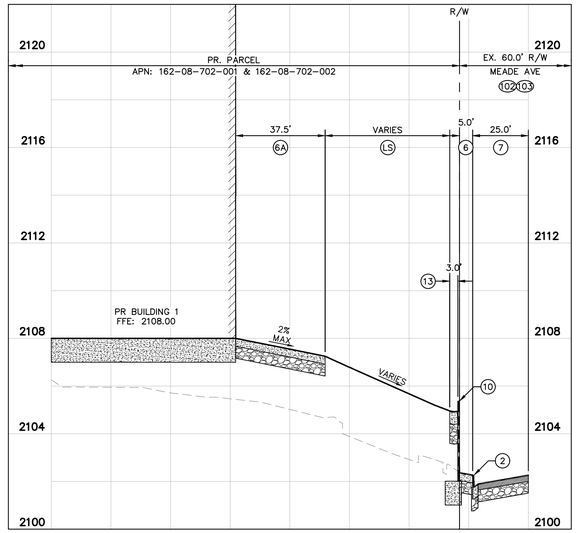


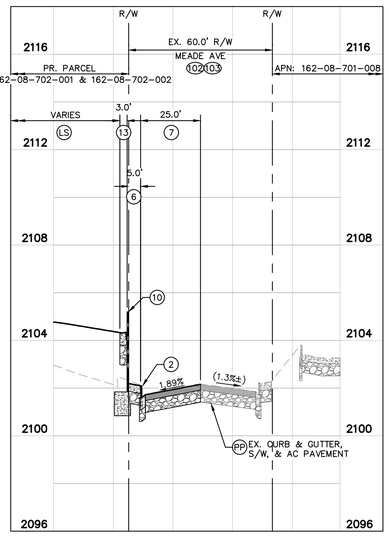
G C03.00 SECTION G



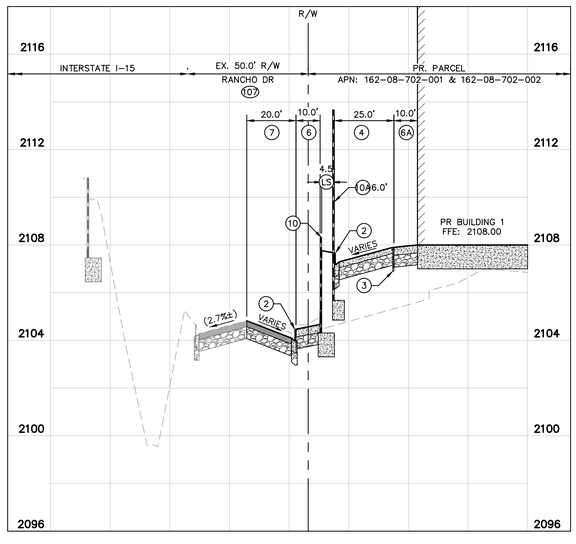
H C03.00 SECTION H



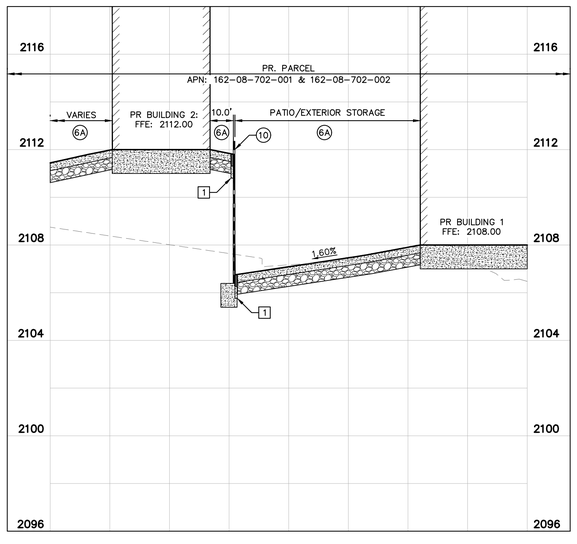
I C03.00 SECTION I



J C03.00 SECTION J



K C03.00 SECTION K



L C03.00 SECTION L

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
3. ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
4. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
5. ADD 2000' TO ALL 2-DIGIT ELEVATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.

CONSTRUCTION NOTES

(2) INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
(3) INSTALL 0" FACE CURB PER DETAIL 2 ON SHEET C03.26.
(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(6) INSTALL CONCRETE PUBLIC SIDEWALK PER CCAUSD No. 234, WIDTH AS NOTED ON PLANS, 2% MAX CROSS SLOPE.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(10A) INSTALL SCREEN WALL PER SNBO REGIONAL STANDARD No. B-100-1 WITH GROUTED SCREEN WALL, 6.0' MIN. SCREEN HEIGHT. SEE ARCHITECTURAL PLANS FOR COLOR, TEXTURE, AND/OR FINISH DETAILS.
(13) INSTALL 6' WIDE VALLEY GUTTER PER DETAIL 4 ON SHEET C03.26.
(LS) REFER TO LANDSCAPE PLANS FOR DETAILS.
(PP) PROTECT IN PLACE

STORM DRAIN NOTES

[1] INSTALL Z886-HDG-LD TRENCH DRAIN SYSTEM WITH CLASS A DUCTILE IRON DECORATIVE GRATE (DOG) PER DETAIL 6 ON SHEET C03.26 (OR APPROVED EQUAL), WITH ANY REQUIRED ADAPTERS/FITTINGS REQUIRED TO CONNECT DRAIN TO OUTLET PIPE, LENGTH AS NOTED ON PLANS.

RIGHT-OF-WAY AND EASEMENTS

(102) EX. RIGEL AVE R/W PER DOC #0452:0364174.
(103) EX. RIGEL AVE R/W PER DOC #0020:0018943.
(107) EX. RANCHO DR R/W PER DOC #0329:0288327.

STORM DRAIN NOTE:
ALL ONSITE STORM DRAIN SYSTEM ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNER.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "5LV118NEE6"

RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF RANCHO DRIVE AND KINGS WAY.

ELEVATION = 635.481 METERS
2084.91 FEET

CITY OF LAS VEGAS VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88 V.2018)

BASIS OF BEARING

SOUTH 89°40'45" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 135, PAGE 29 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 1 2 4
VERTICAL

SOUTHWEST GAS CORPORATION SWG UID DATE

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD S, SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3000
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER THOMAS ACKERET Exp. 12/31/22 CIVIL No. 18592 STATE OF NEVADA
11/16/2022

KHA PROJECT 092365011	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
	11/16/2022	AS SHOWN	TEA	TEA	TEA

No.	REVISIONS	DATE	BY

GRADING SECTIONS - SHEET 3

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

33 OF 35 SHEETS
C03.21

Call before you DIG
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-642-2444
Avoid overhead power line contact. It's costly.
Call Before You Overhead 1-702-227-2929
Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (FAST)

Plotted By: Durkee, Justin Sheet Set: Khs Layout: C03.21 November 17, 2022 07:28:35am K:\lvs_civil\092365012 - grea 15 district 2 (fisher brothers)\CAD\plansheets\v2 plansheets\v2 plansheets\092365012 - GD - SECTIONS.dwg
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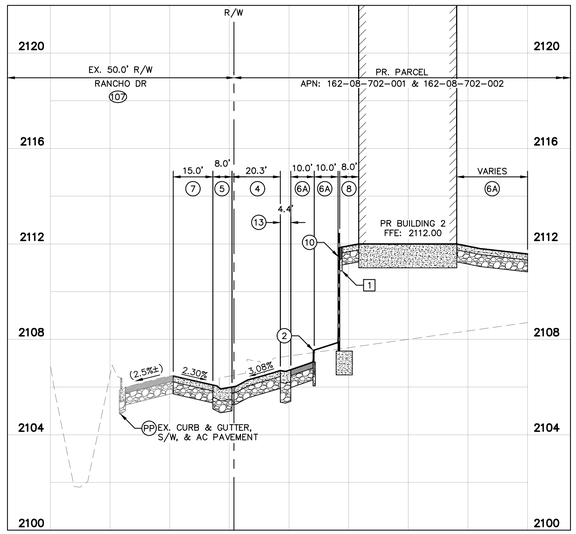
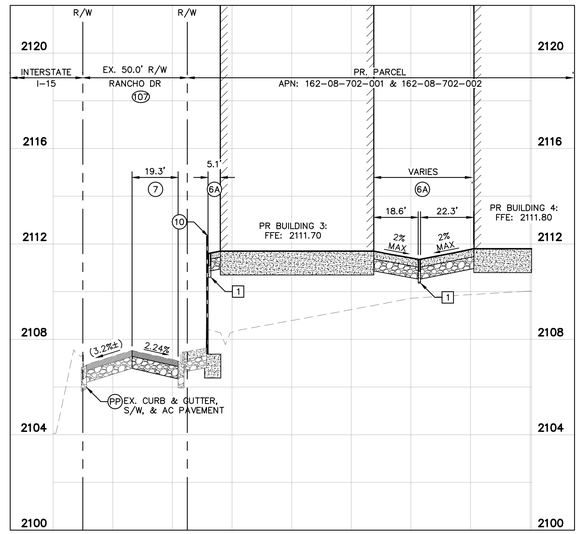
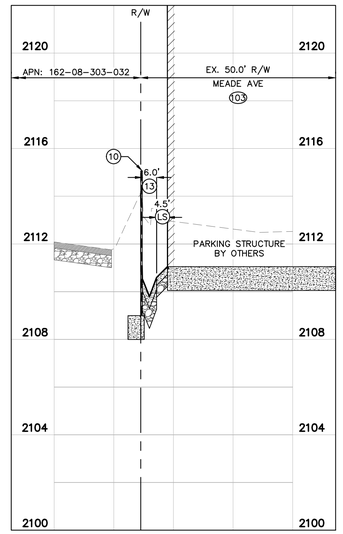


M C03.00 SECTION M



N C03.00 SECTION N



O C03.00 SECTION O

GENERAL NOTES

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6. REFER TO SHEET C00.02 FOR LEGEND AND ABBREVIATIONS.

CONSTRUCTION NOTES

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(4) INSTALL 6.0" CONCRETE PAVEMENT OVER 4.0" TYPE II AGGREGATE BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
(5) INSTALL CONCRETE CROSS GUTTER PER CCAUSD No. 228.
(6A) INSTALL CONCRETE PRIVATE SIDEWALK PER CCAUSD NO. 234 (2% MAX CROSS SLOPE) REFER TO ARCHITECTUAL PLANS FOR COLOR, PATTERN, & OR TREATMENT.
(7) INSTALL PAVEMENT AND BASE MATERIAL PER CCAUSD No. 200 AND 200.1 OR MATCH EXISTING ROADWAY STRUCTURAL SECTION, WHICHEVER IS GREATER.
(8) INSTALL ADA SIDEWALK RAMP, I.D. AS NOTED ON PLAN. REFER TO DETAILS ON SHEET C03.23-C03.25 FOR RAMP I.D., GEOMETRY AND GRADES.
(10) INSTALL RETAINING WALL (4' MAX RETAINING HEIGHT) PER SNBO REGIONAL STANDARD No. B-100-2 WITH GROUTED SCREEN WALL, SCREEN HEIGHT AS NOTED ON PLANS.
(13) INSTALL 6' WIDE VALLEY GUTTER PER DETAIL 4 ON SHEET C03.26.
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(PP) PROTECT IN PLACE

STORM DRAIN NOTES

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GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 1 2 4
VERTICAL

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

Avoid overhead power line contact. It's costly.
Call Before You Overhead
1-702-227-2929

SOUTHWEST GAS CORPORATION	SWG UID DATE

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD S, SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3000
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
THOMAS E. ACKERET
No. 18592
Exp. 12/31/22
CIVIL
STATE OF NEVADA
11/16/2022

KHA PROJECT 092965011	DATE 11/16/2022	SCALE AS SHOWN
DESIGNED BY TEA	DRAWN BY TEA	CHECKED BY TEA

GRADING SECTIONS - SHEET 4

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

34 OF 35 SHEETS
C03.22

Plotted By:Duevel, Justin Sheet Set:Kha Layout:C03.22 November 17, 2022 07:28:41am K:\Las_civil\092965012 - area 15 district 2 (fisher brothers)\CAD\plansheets\02 plansheets\092965012 - GD - SECTIONS.dwg
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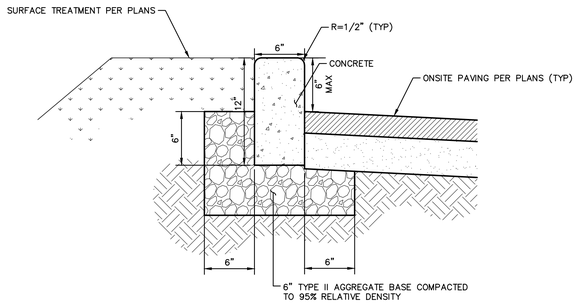
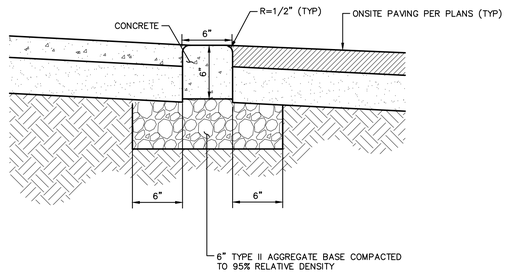


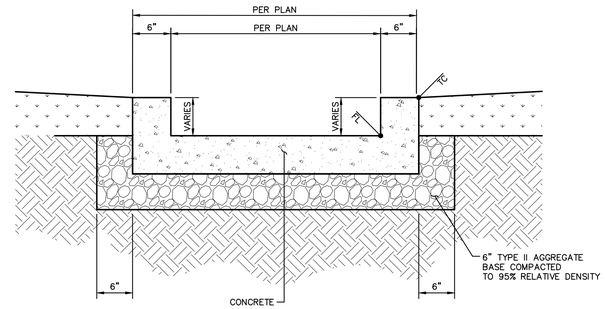
ONSITE MODIFIED TYPE "A" CURB DETAIL

NTS



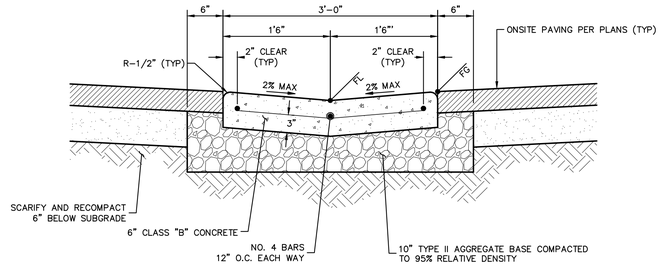
2 — FLUSH (0") CURB DETAIL

NTS



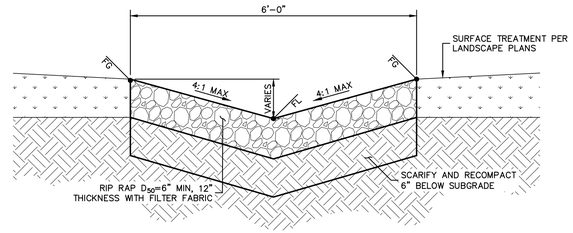
3 — CONCRETE FLUME DETAIL

NTS



4 — ONSITE 3' ADA VALLEY GUTTER DETAIL

NTS



5 — LID RIP-RAP DRAINAGE SWALE DETAIL

NTS

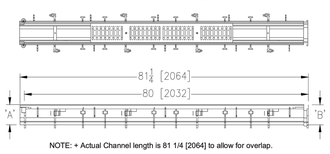
Z886-HDG-LD

6.75 [171] WIDE REVEAL TRENCH DRAIN SYSTEM WITH HEAVY-DUTY GALVANIZED FRAME ASSEMBLY AND LIGHT DUTY GRATES

SPECIFICATION SHEET TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES



NOTE: + Actual Channel length is 81 1/4 [2064] to allow for overlap.

ENGINEERING SPECIFICATION: Zurn Z886-HDG-LD Channels shall be 80 [2032] long, 6.75 [171] wide reveal and have a 4 [102] throat. Modular channel sections shall be made of 0% water absorbent High Density Polyethylene (HDPE). Shall have a positive mechanical connection between channel sections that will not separate during the installation and shall mechanically lock into the concrete surround every 10 [254]. Channels shall weigh less than 2.31 lbs.[1.05kg] per linear foot, have a smooth, 1.5 [38] radiused self cleaning bottom with a Manning's coefficient of 0.009 and 0.75% or neutral 0% built in slope. Channels shall have rebar clip and reinforcing bar slot located at each side for rebar installation. Shall be provided with standard RP&G grates that lock down to frame. Zurn 6 [152] wide reveal Reinforced Galvanized Steel Slotted Grate reinforcing conforming to ASTM specification A536-84, Grade 80-55-06. Fabricated Galvanized Steel grate is rated class B per the DIN EN1433 top load classifications. Supplied in 40 [1016] nominal lengths with 0.375 [10] wide slots, and 0.75 [19] bearing depth. Grate has an open area of 13.68 sq. in per ft, [28,956 sq. mm per meter]. The 0.105 [2.66] thick Heavy-Duty Carbon Steel Galvanized Frame Assembly conforms to ASTM specification A36 with 10 - 4 [102] long concrete anchors per 80 [2032]. Grate lockdown bars are to be integral to the frame and and Galvanizing conforms to ASTM specification A123. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames Shall be produced in the U.S.A. The System loading is based upon the grate being used.

PREFIX OPTIONS (Check/specify appropriate options)

___ Z Six-foot, Eight-inch High Density Polyethylene (HDPE)*

SUFFIX OPTIONS (Check/specify appropriate options)

Outlet Adapters Add/Each

___ -E1 Closed End Cap
___ -E2 2 [51] No-Hub End Outlet
___ -E3 3 [76] No-Hub End Outlet
___ -E4 4 [102] No-Hub End Outlet
___ -E6 6 [152] No-Hub End Outlet
___ -U2 2 [51] No-Hub Bottom Outlet
___ -U3 3 [76] No-Hub Bottom Outlet
___ -U4 4 [102] No-Hub Bottom Outlet
___ -U6 6 [152] No-Hub Bottom Outlet

Frame Options

___ -SW Sidewall Extension - 9" [229] High
___ -SW2 Sidewall Extension - 18" [457] High

Grate Options (Load Classifications are per DIN EN1433)

___ -HPP Heel-Proof Polyethylene Grate - Class A
___ -RPG Reinforced Galvanized Steel Slotted Grate - Class B *
___ -RPGC Reinforced Galvanized Steel Slotted Grate – Class C.
___ -RPG Reinforced Galvanized Perforated Grate - Class B
___ -RPGC Reinforced Galvanized Perforated Grate – Class C.
___ -RPGR Reinforced Galvanized Perforated Reverse Punch Anti-Slip Grate – Class B.
___ -RPGRC Reinforced Galvanized Perforated Reverse Punch Anti-Slip Grate – Class C.

Miscellaneous Options

___ -VP Vandal-Proof Lockdown
___ -JC Joint Connector
___ -DB Bottom Dome Strainer

Decorative Grate Options (Load Classifications are per DIN EN1433)

___ -BCD Bronze Circular Decorative Grate - Class A
___ -BDD Bronze Diagonal Decorative Grate - Class A
___ -DCD Ductile Iron Circular Decorative Grate - Class C
___ -DDD Ductile Iron Diagonal Decorative Grate - Class A
___ -DOG Ductile Iron Decorative Grate - Class A
___ -DWV Ductile Wave Decorative Grate - Class A
___ -GMG Galvanized Steel Mesh Grate - Class A
___ -HPB Heel-Proof Bronze Slotted Grate - Class A

* Regularly furnished unless otherwise specified.

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow (cfs)	Flow (gpm)	Flow (lps)
8601	3.50 [89]	4.10 [104]	0.21	93	6
8602	4.10 [104]	4.70 [119]	0.27	122	8
8603	4.70 [119]	5.30 [135]	0.34	152	10
8603N	5.30 [135]	5.30 [135]	-	-	-
8604	5.30 [135]	5.90 [150]	0.41	183	12
8605	5.90 [150]	6.50 [165]	0.48	214	13
8606	6.50 [165]	7.10 [180]	0.55	245	15
8606N	7.10 [180]	7.10 [180]	-	-	-
8607	7.10 [180]	7.70 [196]	0.62	276	17
8608	7.70 [196]	8.30 [211]	0.69	308	19
8609	8.30 [211]	8.90 [226]	0.76	339	21
8610	8.90 [226]	9.50 [241]	0.83	371	23
8611	9.50 [241]	10.10 [257]	0.90	403	25
8612	10.10 [257]	10.70 [272]	0.97	435	27
8612N	10.70 [272]	10.70 [272]	-	-	-
8613	10.70 [272]	11.30 [287]	1.04	467	29
8614	11.30 [287]	11.90 [302]	1.11	498	31
8615	11.90 [302]	12.50 [318]	1.18	530	33

MADE in the U.S.A.(Load Classifications are per DIN EN1433)

___ -AWG Aluminum Wire Grate - Class A
___ -FG Fabricated Galvanized Steel Slotted Grate - Class A
___ -GG Fiberglass Grate - Class A
___ -PG Perforated Galvanized Steel Grate - Class A

Decorative MADE in the U.S.A.(Load Classifications are per DIN EN1433)

___ -BZ Bronze Decorative Grate - Class A
___ -NBZ Nickel Bronze Decorative Grate - Class A

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. A
Date: 07/24/14
C.N. No. 131272
Prod. | Dwg. No. Z886-HDG-LD

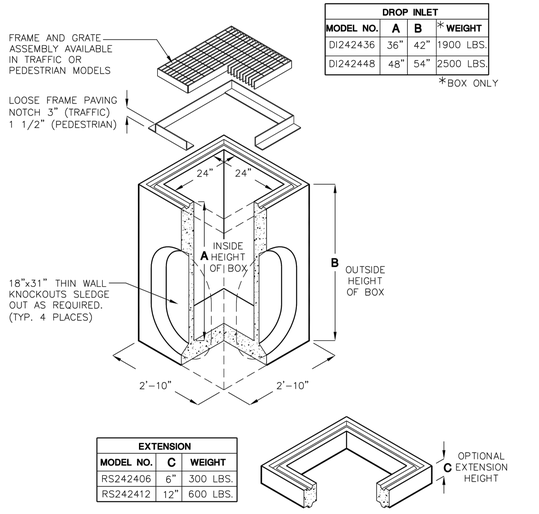
6 — TRENCH DRAIN DETAIL

NTS

24"x24" DROP INLET

DROP INLET			
MODEL NO.	A	B	*WEIGHT
DI242436	36"	42"	1900 LBS.
DI242448	48"	54"	2500 LBS.

*BOX ONLY



EXTENSION		
MODEL NO.	C	WEIGHT
RS242406	6"	300 LBS.
RS242412	12"	600 LBS.

BOX DESIGN LOAD:
H-20 TRAFFIC

FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.

9/23/02
DI2424.dwg
© 2002 Jensen Precast

JENSEN PRECAST

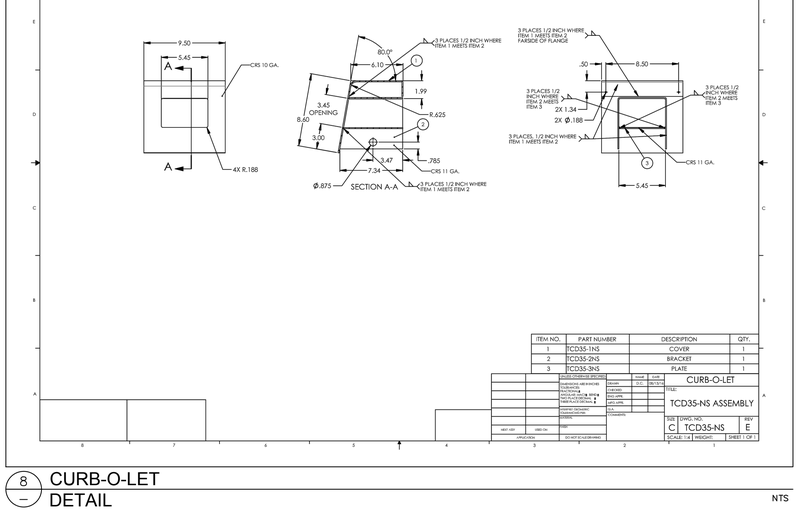
7 — 24"X24" PRECAST INLET DETAIL

NTS

APPROVED BY THE CITY OF LOS ANGELES BUREAU OF ENGINEERING/PUBLIC WORKS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASE FOR PRODUCTION	05/21/12	
B	CHANGED OPENING DIMS	08/21/12	
C	CLARIFIED DIMENSIONS	09/19/12	
D	CHANGED NOTE 3	07/07/17	
E	ADDED DFR MATERIAL	07/07/17	

NOTES: UNLESS OTHERWISE SPECIFIED
1. MATERIAL: NOTED.
2. FINISH: AFTER ASSEMBLY.
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
1 INSTALLATION: FOR 8 INCH CURB, BOTTOM OF CURB-O-LET TO BE INBEDDED IN CONCRETE ±1/4 INCH.
2 STAMP COMPANY NAME IN 1/2" HIGH LETTERS APPROXIMATELY WHERE SHOWN, .02-.04 DEEP.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TCD35-1NS	COVER	1
2	TCD35-2NS	BRACKET	1
3	TCD35-3NS	PLATE	1

CURB-O-LET

TCD35-NS ASSEMBLY

SIZE: C | DWG. NO.: TCD35-NS | REV.: E | SCALE: 1:4 | WEIGHT: | SHEET 1 OF 1

8 — CURB-O-LET DETAIL

NTS

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

PROFESSIONAL ENGINEER — THOMAS A. ACKERET — No. 18592 — Exp. 12/31/22 — CIVIL — STATE OF NEVADA

11/16/2022

			BY
			DATE
			REVISIONS
			No.

KHA PROJECT 092945011
DATE 11/16/2022
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY TEA
CHECKED BY TEA

GRADING DETAILS

AREA 15
DISTRICT 2
PREPARED FOR
FISHER BROTHERS LAS VEGAS, LLC
NEVADA
CITY OF LAS VEGAS

35 OF 35 SHEETS
C03.23

Plotted By:Durrell.Austin Sheet Set:Kha Layout:C03.23 November 17, 2022 07:28:50am K:\Dev-civil\092945012 - area 15 district 2 (fisher brothers)\CAD\plansheets\c03 plansheets\c2 plansheets\092945012 - GD - DTLS.dwg
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