



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT (# of lots) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

IS THIS A RESUBMITTAL? \_\_\_\_\_ Yes \_\_\_\_\_ No

**DEPARTMENT** \_\_\_\_\_ TRANSPORTATION \_\_\_\_\_ HYDROLOGY/DRAINAGE

Check all that Apply:

**TYPE OF SUBMITTAL:**

- \_\_\_\_\_ ENGINEER/ARCHITECT CERTIFICATION
- \_\_\_\_\_ PAD CERTIFICATION
- \_\_\_\_\_ CONCEPTUAL G & D PLAN
- \_\_\_\_\_ GRADING PLAN
- \_\_\_\_\_ DRAINAGE REPORT
- \_\_\_\_\_ DRAINAGE MASTER PLAN
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- \_\_\_\_\_ ELEVATION CERTIFICATE
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)
- \_\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)
- \_\_\_\_\_ STREET LIGHT LAYOUT
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_
- \_\_\_\_\_ PRE-DESIGN MEETING?

**TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

- \_\_\_\_\_ BUILDING PERMIT APPROVAL
- \_\_\_\_\_ CERTIFICATE OF OCCUPANCY
- \_\_\_\_\_ PRELIMINARY PLAT APPROVAL
- \_\_\_\_\_ SITE PLAN FOR SUB'D APPROVAL
- \_\_\_\_\_ SITE PLAN FOR BLDG. PERMIT APPROVAL
- \_\_\_\_\_ FINAL PLAT APPROVAL
- \_\_\_\_\_ SIA/ RELEASE OF FINANCIAL GUARANTEE
- \_\_\_\_\_ FOUNDATION PERMIT APPROVAL
- \_\_\_\_\_ GRADING PERMIT APPROVAL
- \_\_\_\_\_ SO-19 APPROVAL
- \_\_\_\_\_ PAVING PERMIT APPROVAL
- \_\_\_\_\_ GRADING/ PAD CERTIFICATION
- \_\_\_\_\_ WORK ORDER APPROVAL
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



DRAINAGE PLAN:

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS SITE IS LOCATED SOUTH OF LOMAS, NEAR THE SOUTHWEST CORNER OF THE INTERSECTION OF EUBANK BLVD NE AND LOMAS BLVD NE. THE PROJECT REPRESENTS A REDEVELOPMENT OF A PREVIOUSLY DEVELOPED SITE (PVTY-OWNED LOS ALTOS PARK) WITHIN AN INFLU AREA. THE PROJECT CONSISTS OF THE PHASE 1 DEVELOPMENT OF THE EAST PORTION OF THE EXISTING PARK, INCLUDED IN THIS WORK WILL BE THE COMPLETE REMOVAL OF THE EXISTING SOFTBALL FIELDS, TENNIS COURTS, AND HORSESHOE PITS, ALONG WITH ASSOCIATED PARKING AND ACCESS ROADS. THESE ITEMS WILL BE REPLACED WITH A NEW SOFTBALL FIELD COMPLEX, CONCESSIONS / RESTROOM BUILDING, AND ASSOCIATED PAVED PARKING AND ACCESS IMPROVEMENTS.

THIS DRAINAGE PLAN ADDRESSES THE DRAINAGE CONCEPTS AND IMPROVEMENTS PROPOSED FOR DEVELOPMENT OF THE PHASE 1 PARK REDEVELOPMENT. THIS PLAN IS SUBMITTED IN SUPPORT OF BUILDING PERMIT APPROVAL BY THE CITY OF ALBUQUERQUE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE PROJECT SITE IS BOUNDED BY LOMAS BLVD NE TO THE NORTH, EUBANK BLVD NE TO THE EAST, INTERSTATE 40 RIGHT-OF-WAY TO THE SOUTH, AND THE EXISTING IMPROVED PORTIONS OF THE LOS ALTOS PARK TO THE WEST (I.E. LOS ALTOS POOL, ALBUQUERQUE GARDEN CENTER). ALL PERIMETER STREETS REFERENCED ABOVE ARE FULLY DEVELOPED PUBLIC STREETS WITH CURB, GUTTER AND SIDEWALKS. THE MAJORITY OF THE SITE IS OWNED BY THE CITY OF ALBUQUERQUE AND OPERATED BY THE CITY OF ALBUQUERQUE PARKS AND RECREATION DEPARTMENT. AS SHOWN BY THE BOUNDARY SURVEY, PORTIONS OF THE EXISTING PARK ARE LOCATED ON INDOOT RIGHT-OF-WAY. THE COA AND INDOOT HAVE ENTERED INTO A RIGHT-OF-WAY USE AGREEMENT TO ALLOW THE CONTINUED USE OF THE PORTIONS OF THE DEVELOPED AREA WITHIN INDOOT RIGHT-OF-WAY FOR PUBLIC RECREATIONAL USE.

AS INDICATED BY PANEL 358 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, DATED AUGUST 16, 2012, THIS PHASE 1 PROJECT SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. THE SITE DOES LIE IMMEDIATELY ADJACENT TO A ZONE "AO" DESIGNATED FLOOD HAZARD ZONE ASSOCIATED WITH LOMAS BLVD NE RIGHT-OF-WAY, WHERE THE 1% ANNUAL CHANCE FLOOD DISCHARGE IS DENOTED TO BE CONTAINED WITHIN THE PUBLIC RIGHT-OF-WAY. THE FLOOD MAP INDICATES THAT THIS FLOOD HAZARD ZONE "AO" DOES NOT MEET THE WEST PORTION OF THE OVERALL LOS ALTOS PARK, BUT THAT IS BEYOND THE LIMITS OF THIS PHASE 1 DEVELOPMENT, AND AS SUCH DOES NOT IMPACT THIS PROJECT REDEVELOPMENT. THE LOS ALTOS PARK PROJECT SITE CURRENTLY DISCHARGES FREELY TO THE INTERSTATE 40 INDOOT DRAINAGE CHANNEL BASED UPON HISTORIC CONDITIONS, PREVIOUSLY APPROVED PARK DEVELOPMENT PLANS, AND EXISTING AGREEMENTS BETWEEN THE CITY OF ALBUQUERQUE AND THE NM DEPARTMENT OF TRANSPORTATION.

III. BACKGROUND DOCUMENTS & RESEARCH

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (NMPS 11184) DATED 12/08/2020. THIS REFERENCED SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE SITE.
- BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (NMPS 11184) DATED 8/23/2021. THIS REFERENCED SURVEY DENOTES THE EXISTING BOUNDARY LIMITS FOR THE PARK AND THE EXISTING ONSITE EASEMENTS.
- LOS ALTOS SKATE PARK SITE DRAINAGE PLAN PREPARED BY HOLMES & NARVER INC, DATED 04-14-1999. THIS REFERENCED DRAINAGE PLAN DETAILED THE EXISTING DRAINAGE PATTERNS FOR LOS ALTOS PARK, AND ESTABLISHED THE EXISTING HISTORICAL CONDITION OF FREE DISCHARGE FROM THE PARK TO THE INTERSTATE 40 RIGHT-OF-WAY / DRAINAGE CHANNEL.

IV. EXISTING CONDITIONS

THE PROJECT SITE CONSISTS OF FOUR EXISTING SOFTBALL FIELDS, SIX TENNIS COURTS, SEVERAL HORSESHOE PITS, AND ASSOCIATED LANDSCAPING, PAVED PARKING AND ACCESS IMPROVEMENTS. THERE IS ALSO AN EXISTING SPORTS OFFICE BUILDING AT THE SOUTHWEST CORNER OF THE EXISTING PROJECT AREA. STORMWATER GENERATED BY THE OVERALL PROJECT SITE GENERALLY SHEETFLOWS FROM NORTHEAST TO SOUTHWEST ACROSS THE FIELD TENNIS COURTS, AND OTHER LANDSCAPING IMPROVEMENTS INTO THE EXISTING PARKING LOTS AND ACCESS ROADS, AND IS THEN CONVEYED ALONG THE PAVED ACCESS ROADS TO RELEASE AT TWO POINTS OF DISCHARGE INTO THE INDOOT RIGHT-OF-WAY AND ULTIMATELY INTO THE I-40 DRAINAGE CHANNEL. THIS PROJECT SITE IS DIVIDED INTO TWO SUB-BASINS, "WEST" AND "EAST", BASED UPON THEIR POINTS OF DISCHARGE INTO THE INTERSTATE 40 (I-40) DRAINAGE CHANNEL.

THE "WEST" DRAINAGE SUB-BASIN IS MADE OF THE NORTH AND WEST PORTIONS OF THE PROJECT SITE. AS NOTED ABOVE, THIS BASIN SHEET FLOWS ACROSS THE SITE FROM NORTHEAST TO SOUTHWEST, ULTIMATELY DISCHARGING FROM THE SITE TO THE I-40 RIGHT-OF-WAY VIA AN ACCESS ROAD CURB CUT LOCATED IMMEDIATELY UPSTREAM OF AN EXISTING LARGE (DOUBLE "D") STORMWATER INLET WITHIN THE INDOOT RIGHT-OF-WAY. THIS INLET IS CONNECTED VIA LARGE DIAMETER RCP PIPES TO THE I-40 DRAINAGE CHANNEL. THERE IS NO EXISTING PONDING WITHIN THIS SUB-BASIN. THIS STORMWATER FREE DISCHARGES TO THE I-40 DRAINAGE CHANNEL.

THE "EAST" DRAINAGE SUB-BASIN CONSISTS OF THE SOUTH AND EAST PORTIONS OF THE PROJECT SITE. THIS BASIN GENERALLY SHEETFLOWS ACROSS THE SITE FROM NORTHEAST TO SOUTHWEST, AND ULTIMATELY DISCHARGES INTO THE INDOOT RIGHT-OF-WAY. THE EXISTING SUB-BASIN DOES NOT HAVE A SPECIFIC POINT OF DISCHARGE BUT INSTEAD GENERALLY OVERLAND SHEET FLOWS INTO THE I-40 RIGHT-OF-WAY. WITHIN THE RIGHT-OF-WAY, THERE IS AN EXISTING UNPAVED FLOWLINE THAT ULTIMATELY DRAINS TO AN EXISTING LARGE (DOUBLE "D") STORMWATER INLET THAT DISCHARGES TO THE I-40 DRAINAGE CHANNEL VIA LARGE DIAMETER RCP PIPING. THERE IS NO EXISTING PONDING WITHIN THIS SUB-BASIN. THIS STORMWATER FREE DISCHARGES TO THE I-40 DRAINAGE CHANNEL.

THERE ARE NO OFFSITE FLOWS FROM THE ADJACENT PUBLIC STREETS TO THE NORTH AND EAST. THERE ARE NO OFFSITE FLOWS FROM THE LOS ALTOS POOL AND ALBUQUERQUE GARDEN CENTER TO THE WEST, OR FROM I-40 INDOOT RIGHT-OF-WAY TO THE SOUTH, AS THEY ARE TOPOGRAPHICALLY LOWER THAN THE PROJECT SITE. THERE ARE NO OFFSITE FLOWS FROM THE SOUTHEAST CORNER OF THE SITE THAT DISCHARGE FROM A LARGE 48" RCP CURVELET EXTENDING ACROSS EUBANK BLVD NE. THIS CURVELET RELEASES ~180 CFS OF STORMWATER DURING A 100-YEAR, 6 HR STORM EVENT INTO THE SITE, AND IS CONVEYED ACROSS THE SOUTHEAST CORNER OF THE SITE VIA AN EXISTING COMBINATION CONCRETE VALLEY GUTTER AND EARTHEN DRAINAGE CHANNEL, TO DISCHARGE TO ULTIMATELY DISCHARGE INTO THE I-40 RIGHT-OF-WAY TO THE SOUTH. THE EARTHEN PORTIONS OF THE CHANNEL ARE STABILIZED WITH GRASS. UPON RELEASE INTO THE I-40 RIGHT-OF-WAY, AN UNPAVED FLOWLINE CONTINUES TO CONVEY THIS OFFSITE STORMWATER EAST TO WEST TO AN EXISTING 34" RCP STORM CURVELET THAT RELEASES DIRECTLY INTO THE I-40 DRAINAGE CHANNEL.

V. DEVELOPED CONDITIONS

THE PROJECT PHASE 1 DEVELOPED CONDITIONS CONSISTS OF 5 NEW SOFTBALL FIELDS TO REPLACE THE EXISTING 4 FIELDS, A NEW CONCESSIONS / RESTROOM BUILDING, PAVED PARKING AND ACCESS ROAD IMPROVEMENTS, AND ASSOCIATED LANDSCAPING IMPROVEMENTS. THE EXISTING SPORTS OFFICE BUILDING AT THE SOUTHWEST CORNER OF THE SITE WILL REMAIN IN PLACE. THE PHASE 1 DEVELOPMENT PATTERN WILL BE SIMILAR TO THE EXISTING DRAINAGE PATTERN FOR THE SITE, WITH STORMWATER RUNOFF DRAINING GENERALLY FROM NORTHEAST TO SOUTHWEST, AND ULTIMATELY THE ENTIRE PROJECT SITE WILL CONTINUE TO DISCHARGE INTO THE I-40 INDOOT DRAINAGE CHANNEL. WHILE THE PROPOSED SITE WILL TAKE ADVANTAGE OF SEVERAL SMALL AREAS OF LANDSCAPED DEPRESSED AREAS TO CAPTURE AND TREAT STORMWATER TO THE MAXIMUM EXTENT PRACTICABLE, THIS PROJECT DEVELOPMENT DOES NOT INCLUDE ANY DESIGNATED PONDING AREAS DUE TO THE LIMITED OPPORTUNITIES RESULTING FROM THE SITE DESIGN REQUIREMENTS. THE PROJECT SITE WILL CONTINUE TO BE DIVIDED INTO TWO SUB-BASINS, "WEST" AND "EAST", THAT REFLECT THE EXISTING DRAINAGE PATTERN OF FREE DISCHARGE AT TWO DISCREET POINTS OF DISCHARGE INTO THE I-40 RIGHT-OF-WAY / DRAINAGE CHANNEL.

THE "WEST" DRAINAGE SUB-BASIN IS MADE UP OF THE WESTERN PORTION OF THE PROJECT SITE, AND ALSO INCLUDES THE NORTHEAST PARKING LOT, NORTH ACCESS ROAD, WEST ACCESS ROAD, AND SPORTS OFFICE BUILDING. STORMWATER RUNOFF GENERATED BY THIS BASIN WILL DRAIN FROM NORTHEAST TO SOUTHWEST VIA SURFACE FLOW ACROSS THE SOFTBALL FIELDS, PARKING LOTS AND ACCESS ROADS, AND VIA NEW SUBSURFACE STORM DRAIN IMPROVEMENTS IN THE NORTH AND WEST ACCESS ROADS. SURFACE FLOW AND SUBSURFACE PIPED DRAINAGE WILL ULTIMATELY CONVERGE AT A NEW ACCESS ROAD CURB INLET LOCATED AT THE SOUTHWEST CORNER OF THE SITE, NEAR THE LOS ALTOS POOL. ALL SUB-BASIN "WEST" STORMWATER WILL BE COMBINED AT THIS INLET AND FREE DISCHARGE TO THE I-40 INDOOT RIGHT-OF-WAY VIA A NEW PRIVATE SUBSURFACE STORM PIPE CONNECTION INTO THE EXISTING LARGE (DOUBLE "D") STORM INLET LOCATED IN THE RIGHT-OF-WAY AS REFERENCED IN THE EXISTING CONDITIONS. AS NOTED ABOVE, THE I-40 STORM INLET IS DIRECTLY CONNECTED TO THE I-40 DRAINAGE CHANNEL BY LARGE DIAMETER RCP PIPE. THIS PIPELINE CONNECTION REPLACES EXISTING OVERLAND FLOW CONNECTIONS, AND AS SUCH WILL MANAGE THE DISCHARGE RELEASE IN AN IMPROVED MANNER THAT WILL SIGNIFICANTLY REDUCE SEDIMENT DELIVERY TO THE I-40 INDOOT RIGHT-OF-WAY.

THE "EAST" DRAINAGE SUB-BASIN IS MADE UP OF THE EASTERN PORTION OF THE PROJECT SITE, AND INCLUDES THE SOUTHEAST PARKING LOT, THE EASTERN HALF OF THE SOUTH ACCESS ROAD AND THE NEW CONCESSIONS / RESTROOM BUILDING. STORMWATER RUNOFF GENERATED BY THIS BASIN WILL DRAIN FROM NORTHEAST TO SOUTHWEST ACROSS THE SITE VIA SURFACE FLOW ACROSS THE SOFTBALL FIELDS, PARKING LOT, AND ACCESS ROADS, AS WELL AS VIA NEW SUBSURFACE STORM DRAIN IMPROVEMENTS THAT WILL COLLECT RUNOFF FROM THE CONCESSIONS / RESTROOM BUILDING AND LOW POINTS IN THE SURROUNDING CENTRAL PARKING AREAS AND LANDSCAPED AREAS. SURFACE FLOW STORMWATER AND SUBSURFACE PIPED DRAINAGE WILL ULTIMATELY CONVERGE AT A NEW CURB INLET IN THE SOUTH ACCESS ROAD LOCATED IN THE RIGHT-OF-WAY. THE "EAST" STORM INLET IN THE I-40 INDOOT RIGHT-OF-WAY REFERENCED IN THE EXISTING CONDITIONS, A NEW PRIVATE STORM DRAIN CONNECTION WILL BE MADE BETWEEN THE NEW CURB INLET AND THE EXISTING I-40 INLET TO DIRECT-PIPE THE SUB-BASIN "EAST" STORMWATER INTO THE I-40 DRAINAGE SYSTEM. AS NOTED ABOVE, THE I-40 STORM INLET IS DIRECTLY CONNECTED TO THE I-40 DRAINAGE CHANNEL BY LARGE DIAMETER RCP PIPE. SIMILAR TO THE "WEST" SUB-BASIN DISCHARGE, THIS DIRECT PIPE CONNECTIONS REPLACES EXISTING OVERLAND FLOW CONNECTIONS, AND AS SUCH WILL MANAGE THE DISCHARGE RELEASE IN AN IMPROVED MANNER THAT WILL SIGNIFICANTLY REDUCE SEDIMENT DELIVERY TO THE I-40 INDOOT RIGHT-OF-WAY.

AS NOTED IN THE EXISTING CONDITIONS ABOVE, THERE ARE NO OFFSITE FLOWS FROM LOMAS BLVD TO THE NORTH, EUBANK BLVD TO THE EAST, I-40 INDOOT RIGHT-OF-WAY TO THE SOUTH, AND THE LOS ALTOS POOL & ALBUQUERQUE GARDEN CENTER TO THE WEST. THERE CONTINUES TO BE OFFSITE FLOWS INTO THE SOUTHEAST CORNER OF THE SITE FROM A LARGE 48" RCP CURVELET EXTENDING ACROSS EUBANK BLVD NE. THIS CURVELET RELEASES ~180 CFS OF STORMWATER DURING A 100-YEAR, 6 HR STORM EVENT INTO THE SITE, AND IS CONVEYED ACROSS THE SOUTHEAST CORNER OF THE SITE VIA AN EXISTING COMBINATION CONCRETE VALLEY GUTTER AND EARTHEN DRAINAGE CHANNEL, TO DISCHARGE TO ULTIMATELY DISCHARGE INTO THE I-40 RIGHT-OF-WAY TO THE SOUTH. THE EARTHEN PORTIONS OF THE CHANNEL ARE STABILIZED WITH GRASS. UPON RELEASE INTO THE I-40 RIGHT-OF-WAY, AN UNPAVED FLOWLINE CONTINUES TO CONVEY THIS OFFSITE STORMWATER EAST TO WEST TO AN EXISTING 34" RCP STORM CURVELET THAT RELEASES DIRECTLY INTO THE I-40 DRAINAGE CHANNEL.

AS NOTED ABOVE, THIS SITE WILL INCLUDE SEVERAL DEPRESSED LANDSCAPED AREAS THAT WILL CAPTURE STORMWATER RUNOFF TO THE MAXIMUM EXTENT PRACTICABLE (1500 CF OF STORMWATER QUALITY RETENTION ONSITE). HOWEVER, DUE TO THE USER REQUIREMENTS OF THE SITE LIMITING OPPORTUNITIES FOR SIGNIFICANT RETENTION ONSITE IT IS NOT ANTICIPATED THAT THE WATER QUALITY (FIRST FLUSH) VOLUME (8,070 CF) WILL BE RETAINED ONSITE, THEREFORE THE SITE MAY REQUIRE AN ALTERNATIVE OPTION OF A FEE-IN-LEED TO MEET THE CITY ORDINANCE REQUIREMENTS.

CALCULATIONS:

I. LOS ALTOS PARK - PHASE 1 ONSITE DRAINAGE BASINS CHARACTERISTICS

A. PRECIPITATION ZONE =	3				
B. P <sub>100, 6 HR</sub> = P <sub>360</sub> =	2.43	IN			
C. LAND TREATMENTS					
1.					
ONSITE (WEST) DRAIN BASIN	EXISTING LAND TREATMENT	DEVELOPED LAND TREATMENT			
LAND TREATMENT	AREA (SF/AC)	%	AREA (SF/AC)	%	
A	140,730 SF 4.50 AC	28%	196,020 SF 5.70 AC	37%	
B	150,730 SF 4.44 AC	28%	80,800 SF 2.38 AC	15%	
C	241,460 SF 7.01 AC	46%	256,000 SF 7.44 AC	48%	
D					
2.					
ONSITE (EAST) DRAIN BASIN	EXISTING LAND TREATMENT	DEVELOPED LAND TREATMENT			
LAND TREATMENT	AREA (SF/AC)	%	AREA (SF/AC)	%	
A	189,940 SF 5.56 AC	37%	248,200 SF 7.27 AC	48%	
B	215,800 SF 6.35 AC	42%	145,140 SF 4.27 AC	28%	
C	109,000 SF 3.26 AC	21%	121,400 SF 3.54 AC	24%	
D					

HYDROLOGY

A. EXISTING CONDITION 100 YEAR STORM

1. ONSITE (WEST) DRAIN BASIN					
a. VOLUME 100-YR, 6-HR					
W <sub>TE</sub> = (E <sub>x</sub> * A <sub>x</sub> + E <sub>y</sub> * A <sub>y</sub> + E <sub>z</sub> * A <sub>z</sub> + E <sub>0</sub> * A <sub>0</sub> ) / V <sub>100, 6 HR</sub>					
⇒ (0.67 * 0.00) + (0.86 * 3.23) + (1.09 * 3.47) + (2.58 * 5.54) / 12.23 =					1.70 IN
V <sub>100, 6 HR</sub> = (E <sub>x</sub> ) / V <sub>100, 6 HR</sub> * A <sub>x</sub>					⇒ (1.70 / 12) * 12.23 = 1.7332 AC-FT = 75,500 CF
b. PEAK DISCHARGE 100-YR					
Q <sub>100</sub> = Q <sub>a</sub> * A <sub>a</sub> + Q <sub>b</sub> * A <sub>b</sub> + Q <sub>c</sub> * A <sub>c</sub> + Q <sub>d</sub> * A <sub>d</sub>					
⇒ (1.84 * 0.00) + (2.49 * 3.23) + (3.17 * 3.47) + (4.49 * 5.54) =					43.9 CFS
2. ONSITE (EAST) DRAIN BASIN					
a. VOLUME 100-YR, 6-HR					
W <sub>TE</sub> = (E <sub>x</sub> * A <sub>x</sub> + E <sub>y</sub> * A <sub>y</sub> + E <sub>z</sub> * A <sub>z</sub> + E <sub>0</sub> * A <sub>0</sub> ) / V <sub>100, 6 HR</sub>					
⇒ (0.67 * 0.00) + (0.86 * 4.36) + (1.09 * 4.96) + (2.58 * 2.50) / 11.82 =					1.32 IN
V <sub>100, 6 HR</sub> = (E <sub>x</sub> ) / V <sub>100, 6 HR</sub> * A <sub>x</sub>					⇒ (1.32 / 12) * 11.82 = 1.2998 AC-FT = 56,620 CF
b. PEAK DISCHARGE 100-YR					
Q <sub>100</sub> = Q <sub>a</sub> * A <sub>a</sub> + Q <sub>b</sub> * A <sub>b</sub> + Q <sub>c</sub> * A <sub>c</sub> + Q <sub>d</sub> * A <sub>d</sub>					
⇒ (1.84 * 0.00) + (2.49 * 4.36) + (3.17 * 4.96) + (4.49 * 2.50) =					37.8 CFS

B. DEVELOPED CONDITION 100 YEAR STORM

1. ONSITE (WEST) DRAIN BASIN					
a. VOLUME 100-YR, 6-HR					
W <sub>TE</sub> = (E <sub>x</sub> * A <sub>x</sub> + E <sub>y</sub> * A <sub>y</sub> + E <sub>z</sub> * A <sub>z</sub> + E <sub>0</sub> * A <sub>0</sub> ) / V <sub>100, 6 HR</sub>					
⇒ (0.67 * 0.00) + (0.86 * 4.50) + (1.09 * 1.86) + (2.58 * 5.88) / 12.23 =					1.72 IN
V <sub>100, 6 HR</sub> = (E <sub>x</sub> ) / V <sub>100, 6 HR</sub> * A <sub>x</sub>					⇒ (1.72 / 12) * 12.23 = 1.7536 AC-FT = 76,390 CF
b. STORMWATER QUALITY VOLUME (FIRST FLUSH) GENERATED					
V <sub>SWQV</sub> = (P <sub>SWQV</sub> / 12) * A <sub>0</sub>					
⇒ ((0.42 / 12) * (2.50) =					0.0876 AC-FT = 3,820 CF
c. PEAK DISCHARGE 100-YR					
Q <sub>100</sub> = Q <sub>a</sub> * A <sub>a</sub> + Q <sub>b</sub> * A <sub>b</sub> + Q <sub>c</sub> * A <sub>c</sub> + Q <sub>d</sub> * A <sub>d</sub>					
⇒ (1.84 * 0.00) + (2.49 * 4.50) + (3.17 * 1.86) + (4.49 * 5.88) =					43.5 CFS
2. ONSITE (EAST) DRAIN BASIN					
a. VOLUME 100-YR, 6-HR					
W <sub>TE</sub> = (E <sub>x</sub> * A <sub>x</sub> + E <sub>y</sub> * A <sub>y</sub> + E <sub>z</sub> * A <sub>z</sub> + E <sub>0</sub> * A <sub>0</sub> ) / V <sub>100, 6 HR</sub>					
⇒ (0.67 * 0.00) + (0.86 * 5.70) + (1.09 * 3.34) + (2.58 * 2.79) / 11.82 =					1.33 IN
V <sub>100, 6 HR</sub> = (E <sub>x</sub> ) / V <sub>100, 6 HR</sub> * A <sub>x</sub>					⇒ (1.33 / 12) * 11.82 = 1.3097 AC-FT = 57,050 CF
b. STORMWATER QUALITY VOLUME (FIRST FLUSH) GENERATED					
V <sub>SWQV</sub> = (P <sub>SWQV</sub> / 12) * A <sub>0</sub>					
⇒ ((0.42 / 12) * (2.79) =					0.0975 AC-FT = 4,250 CF
c. PEAK DISCHARGE 100-YR					
Q <sub>100</sub> = Q <sub>a</sub> * A <sub>a</sub> + Q <sub>b</sub> * A <sub>b</sub> + Q <sub>c</sub> * A <sub>c</sub> + Q <sub>d</sub> * A <sub>d</sub>					
⇒ (1.84 * 0.00) + (2.49 * 5.70) + (3.17 * 3.34) + (4.49 * 2.79) =					37.3 CFS
C. COMPARISON 100 YEAR STORM					
1. ONSITE (WEST) BASIN GENERATED					
a. VOLUME 100-YR, 6-HR					
V <sub>OVERALL SITE</sub> = 76390 - 75500 =					890 CF (INCREASE)
b. PEAK DISCHARGE 100-YR					
ΔQ <sub>100</sub> = 43.5 - 43.9 =					-0.4 CFS (DECREASE)
2. ONSITE (EAST) BASIN GENERATED					
a. VOLUME 100-YR, 6-HR					
V <sub>OVERALL SITE</sub> = 57050 - 56620 =					430 CF (INCREASE)
b. PEAK DISCHARGE 100-YR					
ΔQ <sub>100</sub> = 37.3 - 37.8 =					-0.5 CFS (DECREASE)
3. OVERALL SITE STORMWATER DISCHARGE					
V <sub>OVERALL SITE</sub> DEVELOPED GENERATED = 76390 + 57050 =					133440 CF
V <sub>OVERALL SITE</sub> EXISTING GENERATED = 75500 + 56620 =					132120 CF
V <sub>OVERALL SITE</sub> STORM WATER QUALITY VOLUME RETAINED =					1500 CF
V <sub>OVERALL SITE</sub> DISCHARGE = 133440 - 132120 - 1500 =					-180.0 CF (DECREASE)
4. STORM WATER QUALITY (FIRST FLUSH)					
V <sub>OVERALL SWQV</sub> GENERATED = 8,070 CF > V <sub>SITE</sub> SWQV RETAINED = 1500 CF; 6,570 CF RELEASED FROM SITE					

VI. CALCULATIONS

CALCULATIONS ANALYZING THE EXISTING AND PROPOSED DEVELOPED CONDITIONS FOR THE 100 YEAR, 6-HOUR RAINFALL EVENT HAVE BEEN PREPARED FOR EACH DRAINAGE BASIN. THE PROCEDURES FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED DEVELOPMENT WILL RESULT IN MINIMAL DECREASE IN PEAK RATE OF DISCHARGE (-0.4 CFS FROM SUB-BASIN "WEST"; -0.5 CFS FROM SUB-BASIN "EAST") AND A MINIMAL INCREASE IN VOLUME OF RUNOFF GENERATED (890 CF OF SUB-BASIN "WEST"; 430 CF FROM SUB-BASIN "EAST"). THIS INCREASED VOLUME OF RUNOFF GENERATED OF 1,320 CF WILL BE OFFSET BY THE STORMWATER QUALITY RETENTION CAPACITY ONSITE OF 1500 CF. THEREFORE, THE OVERALL SITE WILL RESULT IN A NET DECREASE (-180 CF) IN STORMWATER DISCHARGE RELEASED FROM THE SITE.

VII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED HEREIN:

- THIS DRAINAGE PLAN ADDRESSES THE PHASE 1 LOS ALTOS PARK REQUIREMENTS FOR THE EASTERN PORTION OF THE OVERALL PARK PROPERTY; FUTURE DEVELOPMENT FOR THE WESTERN PORTION OF THE PARK WILL REQUIRE SEPARATE SUBMITTAL.
- THE PROPOSED IMPROVEMENTS WILL MAINTAIN THE EXISTING DRAINAGE PATTERNS OF THE SITE, RELEASING GENERATED STORMWATER RUNOFF TO THE INTERSTATE-40 INDOOT RIGHT-OF-WAY / DRAINAGE CHANNEL VIA TWO DISCHARGE POINTS LOCATED IMMEDIATELY UPSTREAM OF INDOOT DRAINAGE INLET STRUCTURES. THESE NEW CONNECTIONS WILL BE DIRECT-PIPED CONNECTIONS, REPLACING EXISTING OVERLAND FLOW DISCHARGE, AND AS SUCH WILL MANAGE THE DISCHARGE RELEASE IN AN IMPROVED MANNER THAT WILL SIGNIFICANTLY REDUCE SEDIMENT DELIVERY TO THE I-40 INDOOT RIGHT-OF-WAY.
- THE PROPOSED IMPROVEMENTS WILL MAINTAIN THE STATUS QUO FOR THE SITE OF FREE DISCHARGE TO THE I-40 INDOOT RIGHT-OF-WAY / DRAINAGE CHANNEL. THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINIMAL DECREASE IN THE OVERALL PEAK RATE OF RUNOFF (-0.9 CFS) AND MINIMAL INCREASE IN VOLUME (1,320 CF) GENERATED BY THE SITE. THE INCREASE IN VOLUME OF RUNOFF GENERATED WILL BE OFFSET BY 1500 CF OF STORMWATER QUALITY RETENTION ONSITE, RESULTING IN A NET DECREASE OF 180 CF DRAINING TO THE I-40 INDOOT RIGHT-OF-WAY.
- THE PROPOSED DEVELOPMENT WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS. STORMWATER QUALITY DEPRESSED LANDSCAPED AREAS WILL CAPTURE AND TREAT STORMWATER RUNOFF FROM THE SITE TO THE MAXIMUM EXTENT PRACTICABLE (VOLUME RETAINED = 1500 CF). HOWEVER, THIS PROPOSED SITE IS NOT ANTICIPATED TO MEET CITY ORDINANCE STORMWATER QUALITY VOLUME (FIRST FLUSH) RETENTION / TREATMENT VOLUME REQUIREMENTS (FIRST FLUSH GENERATED = 8,070 CF). AS THIS IS A CITY PARK PROJECT, DETERMINATION OF REQUIREMENTS / ADDRESSING THE FEE-IN-LEED ALTERNATIVE OPTION FOR THE AMOUNT OF VOLUME RELEASED FROM THE OVERALL PROJECT SITE (6,570 CF) WILL BE AT THE DISCRETION OF CITY HYDROLOGY.

PROJECT BENCHMARK

AN AGRS BRASS DISK STAMPED "14-K20", SET FLUSH WITH THE TOP OF A CONCRETE CURB, ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE. ELEVATION = 5381.93 FEET (NAVD 1988)

TEMPORARY BENCHMARK #201 (T.B.M.)

A #5 REBAR W/CAP STAMPED "HMC CONTROL NMPS 11184", SET IN GRASS NORTHWEST OF A WHEELCHAIR RAMP, BETWEEN A BASEBALL FIELD AND A PARKING LOT, AS SHOWN ON SHEET C101. ELEVATION = 5425.88 FEET (NAVD 1988)

TEMPORARY BENCHMARK #202 (T.B.M.)

A #5 REBAR W/CAP STAMPED "HMC CONTROL NMPS 11184", SET IN GRASS NEAR THE EAST SIDE OF THE PROJECT SITE, BETWEEN A BASEBALL FIELD AND A PARKING LOT, AS SHOWN ON SHEET C101. ELEVATION = 5434.33 FEET (NAVD 1988)

TEMPORARY BENCHMARK #204 (T.B.M.)

A MAG NAIL, SET IN CONCRETE CURB JOINT NEAR THE SOUTHEAST CORNER OF THE LOOP ROAD THRU THE PROJECT SITE, AS SHOWN ON SHEET C101. ELEVATION = 5417.25 FEET (NAVD 1988)

TEMPORARY BENCHMARK #207 (T.B.M.)

A MAG NAIL, SET IN CONCRETE CURB JOINT SOUTHEAST OF THE ALBUQUERQUE GARDEN CENTER, AS SHOWN ON SHEET C101. ELEVATION = 5410.14 FEET (NAVD 1988)

TEMPORARY BENCHMARK #211 (T.B.M.)

A #5 REBAR W/CAP STAMPED "HMC CONTROL NMPS 11184", SET IN DIRT NEAR THE WEST SIDE OF THE PROJECT SITE, NOT SHOWN. ELEVATION = 5390.22 FEET (NAVD 1988)

TEMPORARY BENCHMARK #212 (T.B.M.)

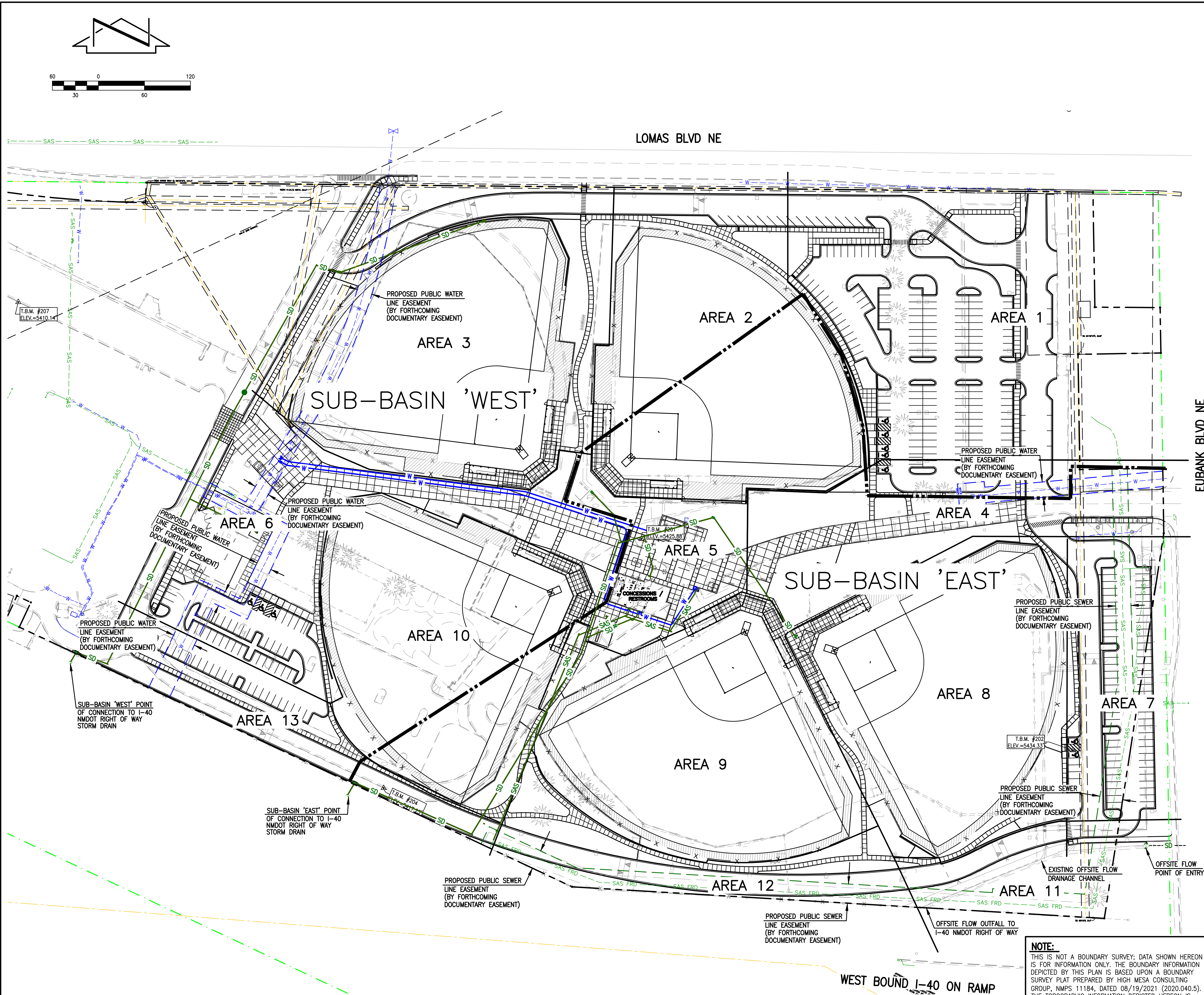
A MAG NAIL, SET IN CONCRETE CURB JOINT EAST OF THE DRIVE ENTRANCE TO THE SKATE PARK, NOT SHOWN. ELEVATION = 5408.19 FEET (NAVD 1988)

LEGEND

AUTO	AUTOMATIC DOOR OPENER	•	COMM CONDUIT
ASPH	ASPHALT	•	COMM UV MARKER
BOH	BUILDING OVERHANG	•	COMM PULLBOX
C	COMMUNICATION	•	COMM POLE
C&G	CURB AND GUTTER	•	COMM RISER
CC	CONCRETE CURB	•	ELEC BREAKER BOX
CDP	CONCRETE DRIVE PAD	•	ELEC CABINET
CI	CAST IRON PIPE	•	ELEC CONDUIT
COLI	CONCRETE ISLAND	•	ELEC JUNCTION BOX
CL	CENTERLINE	•	ELEC METER
CLD	CENTERLINE OF DOOR	•	ELEC OUTLET
CLDD	CENTERLINE OF DOUBLE DOOR	•	ELEC PULLBOX
CLF	CHAINLINK FENCE	•	METAL GUARD POST
CMP	CORRUGATED METAL PIPE	•	FENCE
CMS	CONCRETE MOW STRIP	•	GAS PERM LOCATION MARKER
CMU	CONCRETE MASONRY UNIT	•	GAS SERVICE
CONC	CONCRETE	•	GAS VALVE BOX
COP	CURB OPENING	•	IRR CONTROL BOX
CP	CONC CYLINDER PIPE	•	IRR VALVE BOX
CR	CONCRETE RAMP	•	METAL LIGHT POLE
CRD	CONCRETE RUNDOWN	•	METAL POWER POLE
CS	CONCRETE STEPS	•	WOODEN LIGHT POLE
CSW	CONCRETE SIDEWALK	•	WOODEN POWER POLE
CONC	CONCRETE WALL	•	GUY WIRE ANCHOR
EA	EDGE OF ASPHALT	•	SAS SINGLE CO
ECC	EDGE OF CONCRETE	•	SAS MANHOLE
ET	ELECTRIC TRANSFORMER	•	GREASE TRAP
EV	ELECTRIC VAULT	•	SD CO
FL	FLOWLINE	•	SD MANHOLE
GRV	GRAVEL	•	METAL SIGN GENERAL
INV	INVERT ELEVATION	•	STATUE – ART WORK
MH	MANHOLE	•	TRASH CAN
OHC(2)	OVERHEAD COMMUNICATION (# OF LINES)	•	TRAF CONTROL BOX
OHE(2)	OVERHEAD ELECTRIC (# OF LINES)	•	TRAF PULL BOX
POST	POST	•	TRAFFIC SIGNAL
PT	PICNIC TABLE	•	POST INDICATOR VALVE
PVC	POLYVINYL CHLORIDE	•	WATER FAUCET
RCP	REINFORCED CONCRETE PIPE	•	WATER FOUNTAIN
RR	RIVER ROCK	•	WL HOT BOX
SAS	SANITARY SEWER	•	WATER METER BOX
SB	SPEED BUMP	•	METER CAN WITH WATER
SD	STORM DRAIN	•	WATER VALVE BOX
STP	STEEL POLE	•	FIRE DEPT CONNECTION
SWC	SIDEWALK CULVERT	•	FIRE HYDRANT
TA	TOP OF ASPHALT	•	LANDSCAPE ROCK/BOULDER
TCO	TOP OF CURB	•	XERISCAPE PLANT
TE	TOP OF CONCRETE	•	
TG	TOP OF GRATE	•	
TRC	TRASH CAN	•	
TW	TOP OF WALL	•	
TY	TYPICAL	•	
VG	VALLEY GUTTER	•	
WCR	WHEELCHAIR RAMP	•	
WCP	WOOD GUARD POST	•	
WHB	WATERLINE HOTBOX	•	
WL	WATERLINE	•	
WS	WHEEL STOP	•	
WV	WATER VAULT	•	



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**A1 OVERALL SITE MAP – GRADING AND DRAINAGE**  
SCALE: 1" = 60'

**PROJECT BENCHMARK**

AN AGRS BRASS DISK STAMPED "14-K20", SET FLUSH WITH THE TOP OF A CONCRETE CURB, ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.  
ELEVATION = 5381.93 FEET (NAVD 1988)

**TEMPORARY BENCHMARK #201 (T.B.M.)**

A #5 REBAR W/CAP STAMPED "HMC CONTROL NMPS 11184", SET IN GRASS NORTHWEST OF A WHEELCHAIR RAMP, BETWEEN A BASEBALL FIELD AND A PARKING LOT, AS SHOWN ON THIS SHEET.  
ELEVATION = 5425.88 FEET (NAVD 1988)

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A #5 REBAR W/CAP STAMPED "HMC CONTROL NMPS 11184", SET IN GRASS NEAR THE EAST SIDE OF THE PROJECT SITE, BETWEEN A BASEBALL FIELD AND A PARKING LOT, AS SHOWN ON THIS SHEET.  
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**TEMPORARY BENCHMARK #212 (T.B.M.)**

A MAG NAIL, SET IN CONCRETE CURB JOINT EAST OF THE DRIVE ENTRANCE TO THE SKATE PARK, NOT SHOWN.  
ELEVATION = 5408.19 FEET (NAVD 1988)

**CONSTRUCTION NOTES:**

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/08/2020 AND INCLUDED AS SHEET VF-101 THROUGH VF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
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- THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLANS INCLUDING, BUT NOT LIMITED TO, SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.

2020.040.3

**HIGH MESA Consulting Group**

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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

**LOS ALTOS PARK RENOVATION – PHASE 1  
OVERALL SITE MAP – GRADING & DRAINAGE**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 759692	Zone Map No. K-20	Sheet C101	

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	AN AGRS BRASS DISK STAMPED "14-K20"	DATE	NO.	DATE		08/31/21
WORK DONE BY	DATE	OF A CONCRETE CURB, ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.	DATE	BY	DATE		
APPROVED BY	DATE	123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.	DATE	C.C.A.	DATE		
FIELD VERIFICATION	DATE	ELEVATION = 5381.93 FEET (NAVD 1988)	DATE	2020.040.2	DATE		
BY	DATE	ELEVATION = 5434.33 FEET (NAVD 1988)	DATE		DATE		
RECORDED BY	DATE	ELEVATION = 5417.25 FEET (NAVD 1988)	DATE		DATE		
NO.	DATE	ELEVATION = 5410.14 FEET (NAVD 1988)	DATE		DATE		
	DATE	ELEVATION = 5390.22 FEET (NAVD 1988)	DATE		DATE		
	DATE	ELEVATION = 5408.19 FEET (NAVD 1988)	DATE		DATE		

DATE: 08/31/21

LOS ALTOS PARK RENOVATION

PROJECT# 759692

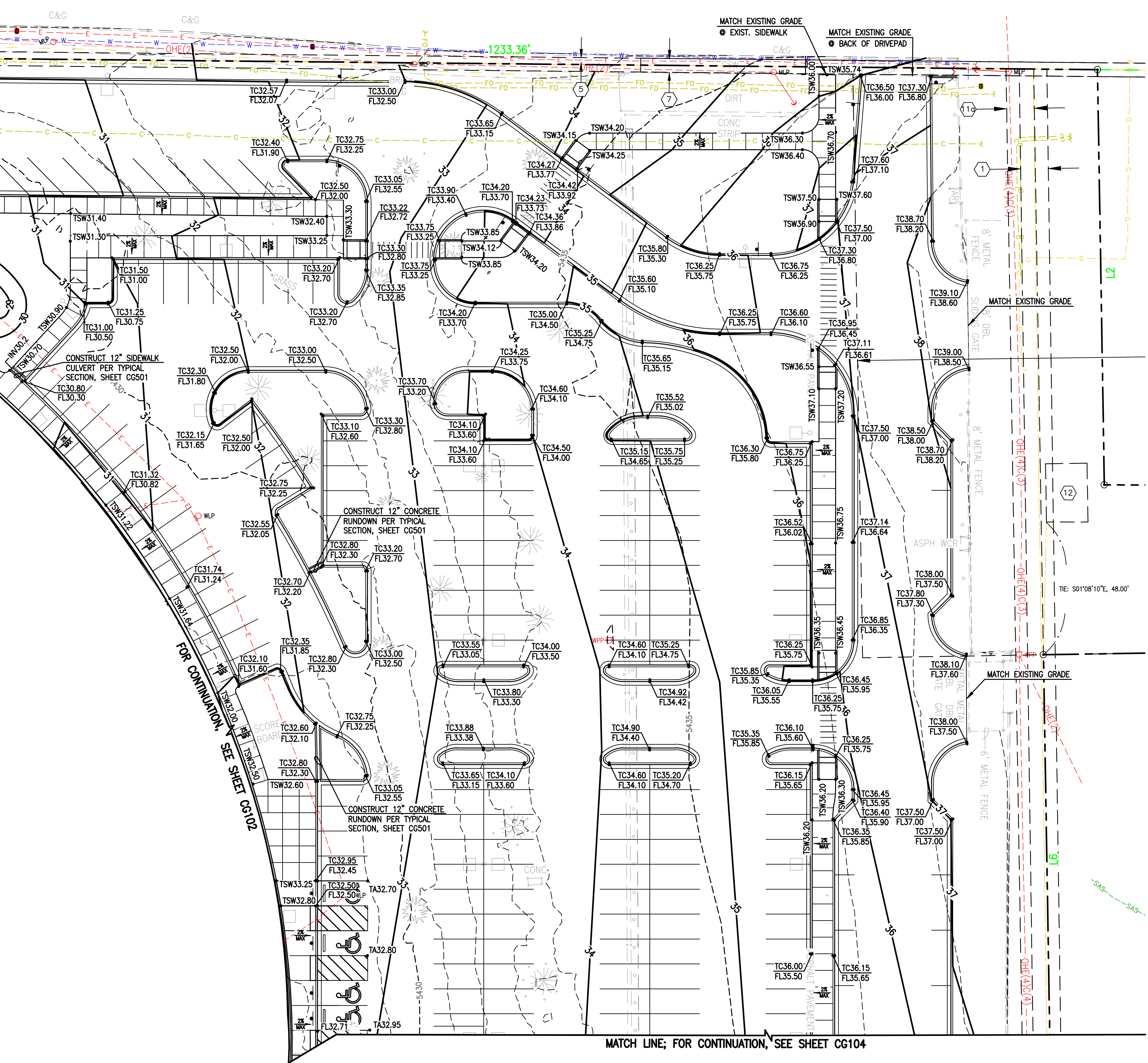


EASEMENT KEYED NOTES:

FOR EASEMENT KEYED NOTES, SEE SHEET C-101

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
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4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/08/2020 AND INCLUDED AS SHEET VF-101 THROUGH VF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
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NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA SHOWN HEREON IS FOR INFORMATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A BOUNDARY SURVEY PLAT PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 08/19/2021 (2020.040.5). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 12/08/2020 (2020.040.2) WITH SUPPLEMENTAL UTILITY INFORMATION DATED 05/10/2021 (2020.040.6)

A1 GRADING PLAN - AREA 1  
SCALE: 1" = 20'

2020.040.3

**HIGH MESA Consulting Group**

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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION - PHASE 1  
GRADING PLAN - AREA 1

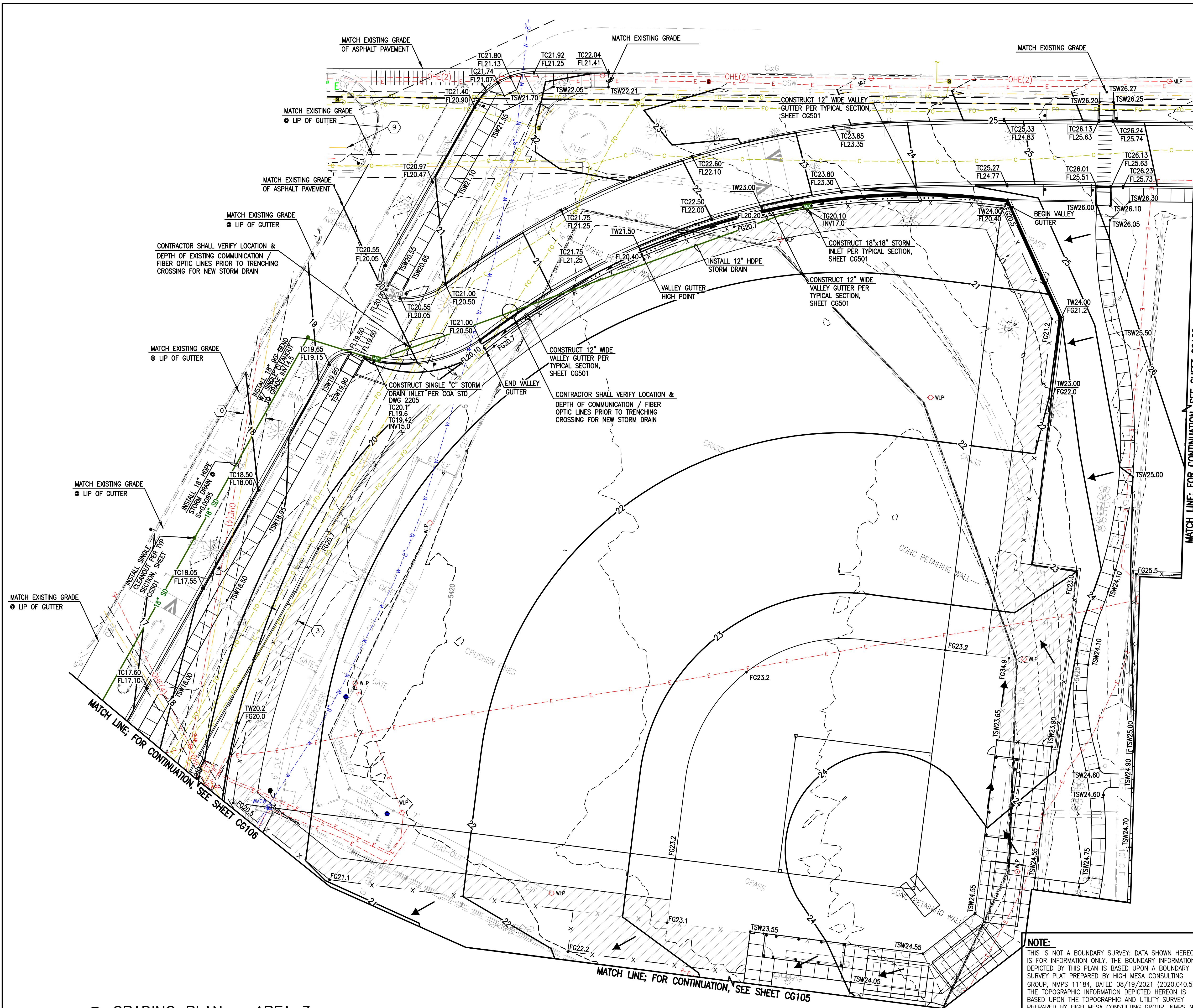
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 759692	Zone Map No. K-20	Sheet CG101	

REVISIONS		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	REMARKS	BY	NO.	DATE	NO.	DATE	NO.	DATE
				2020.040.2	12/02/2020				
DESIGNED BY: J.D.S.	08/31/21			DATE	12/02/2020	AN AGES BRASS DISK STAMPED "14-K20" SET FLUSH WITH THE TOP OF A CONCRETE CURB ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.			
DRAWN BY: J.Y.R.	08/31/21			BY	C.CALA				
CHECKED BY: G.M.	08/31/21					ELEVATION = 5381.83 FEET (NAVD 1988)			









**(A1) GRADING PLAN – AREA 3**  
SCALE: 1" = 20'

**NOTE:**  
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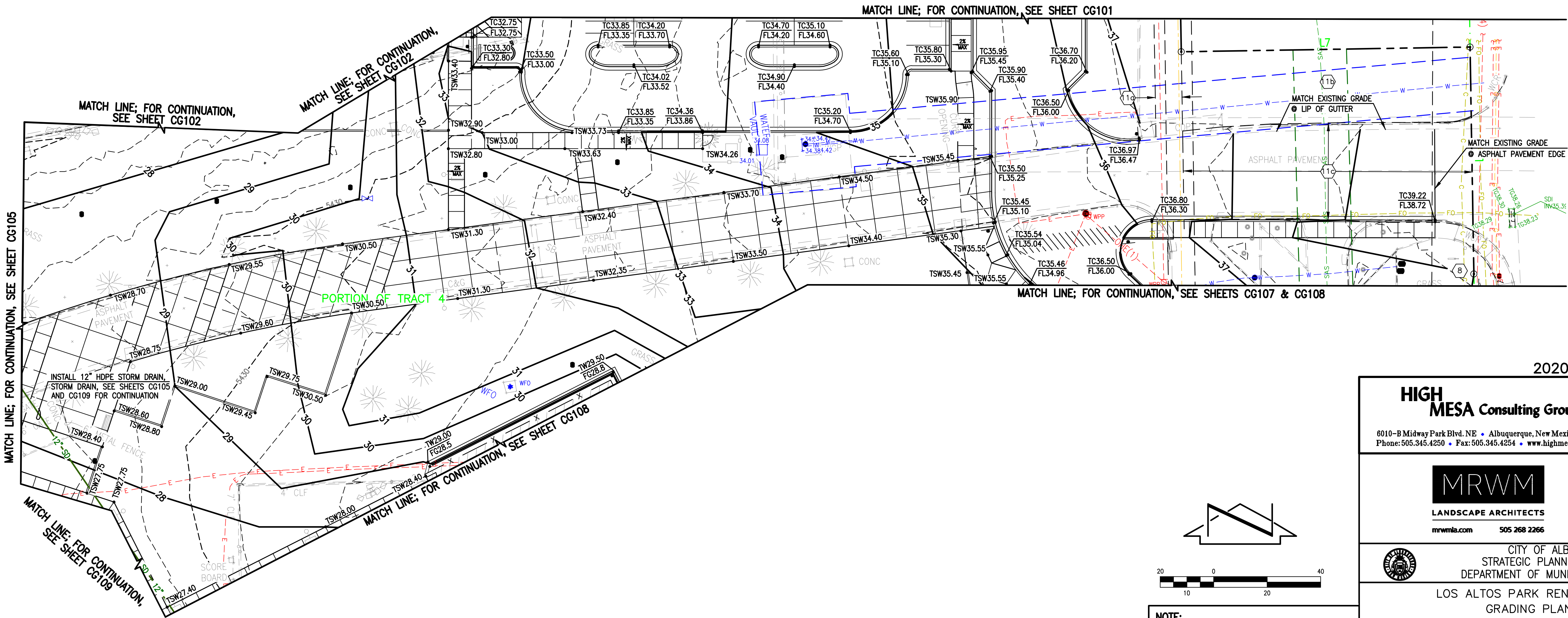
DATE 08/31/21  
PROJECT# 759692



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**(A1) GRADING PLAN — AREA 4**

SCALE: 1" = 20'



**EASEMENT KEYED NOTES:**

○ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

**CONSTRUCTION NOTES:**

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**2020.040.3**


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 **CITY OF ALBUQUERQUE**  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

**LOS ALTOS PARK RENOVATION — PHASE 1**  
GRADING PLAN — AREA 4

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 759692	Zone Map No. K-20	Sheet CG104	

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	AN AGES BRASS DISK STAMPED "14-K20" SET FLUSH WITH THE TOP OF A CONCRETE CURB ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.	CONTRACTOR	WORK DONE BY	DATE
2020.040.2	12/02/2020	ELEVATION = 5381.83 FEET (NAVD 1988)			

**ENGINEER'S SEAL**



08/31/21

REVISIONS	NO.	DATE	REMARKS	BY

DATE: 08/31/21

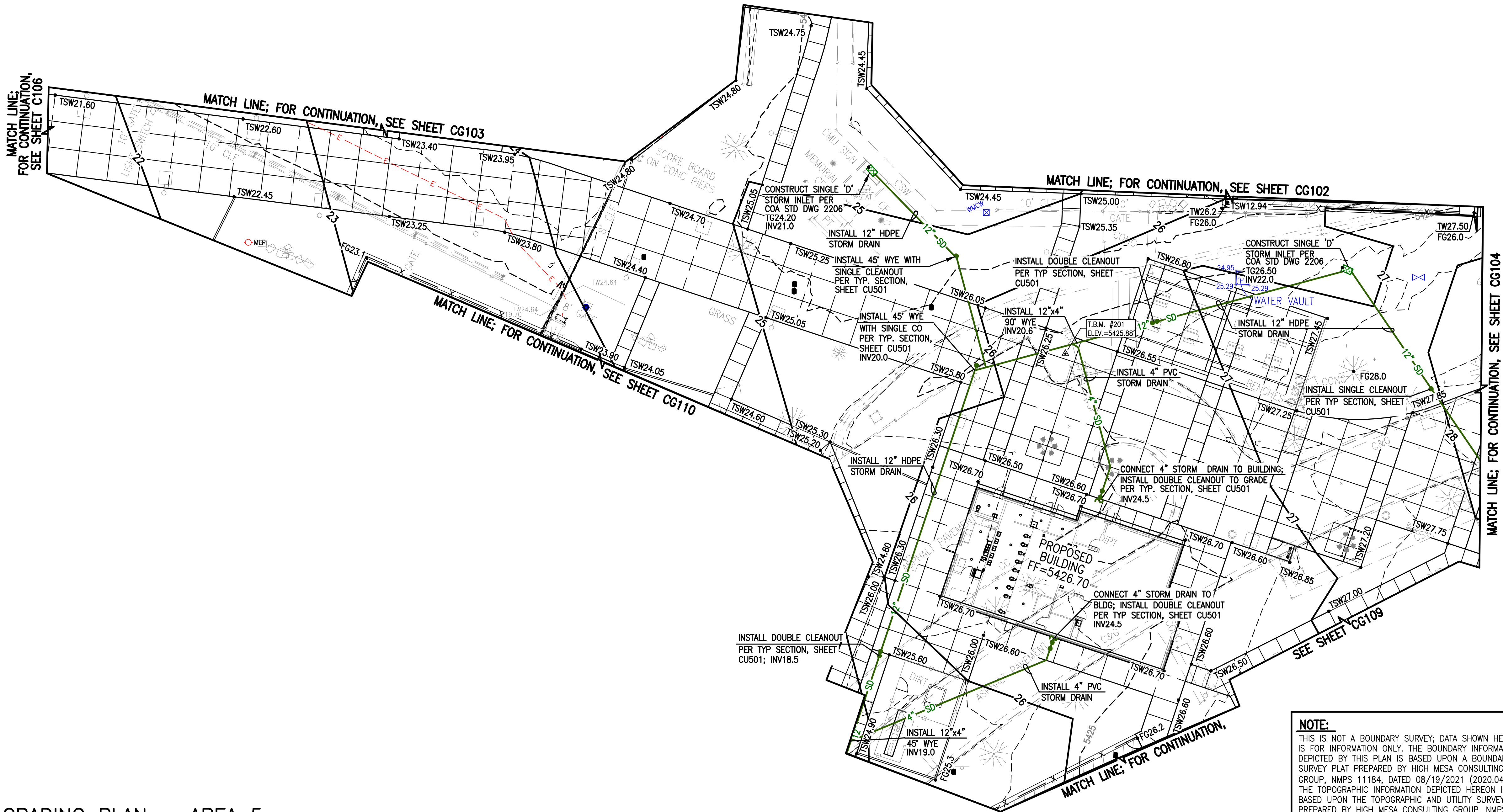
LOS ALTOS PARK RENOVATION

PROJECT# 759692



**A1** GRADING PLAN – AREA 5

SCALE: 1" = 20'



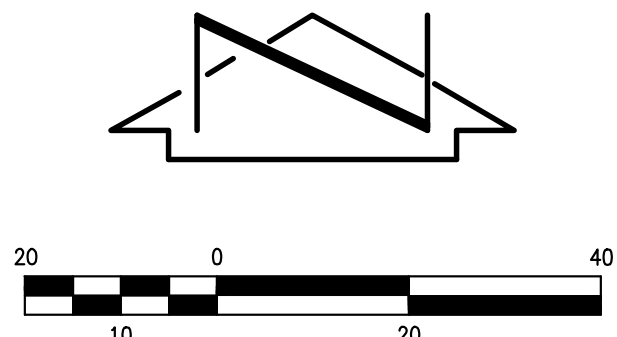
**NOTE:**  
THIS IS NOT A BOUNDARY SURVEY; DATA SHOWN HEREON IS FOR INFORMATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A BOUNDARY SURVEY PLAT PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 08/19/2021 (2020.040.5). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 12/08/2020 (2020.040.2) WITH SUPPLEMENTAL UTILITY INFORMATION DATED 05/10/2021 (2020.040.6)

**EASEMENT KEYED NOTES:**

○ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

**CONSTRUCTION NOTES:**

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/08/2020 AND INCLUDED AS SHEET VF-101 THROUGH VF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
7. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLANS INCLUDING, BUT NOT LIMITED TO, SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.



2020.040.3

**HIGH MESA Consulting Group**


6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109  
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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1  
GRADING PLAN – AREA 5

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet		
759692	K-20		CG105	

REVISIONS		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
				FIELD NOTES		AN AGES BRASS DISK STAMPED "14-K20" SET FLUSH WITH THE TOP OF A CONCRETE CURB, ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.  ELEVATION = 5391.93 FEET (NAD 1988)		CONTRACTOR  WORK DONE BY APPROVED BY FIELD VERIFICATION DRAWINGS CHECKED BY RECORDED BY NO.	
				NO.	DATE				
				BY	DATE				
				NO.	DATE				
				BY	DATE				
				2020.040.2	C.CALA	12/02/2020			





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## CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND EXPOSE THE HOLES AND/OR VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DISSEMINATION OF INFORMATION WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE ALBERGUEZ ORDINANCES AND PROCEDURES.
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/28/2020 AND INCLUDED AS SHEET WF-101 THROUGH WF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED, DISCONTINUED OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THEREFORE, MAKES NO REPRESENTATION PERTAINING THEREON AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES IN A MANNER CONSISTENT WITH THE REQUIREMENTS THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE EXCAVATION SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
7. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLAN. THIS INCLUDING, BUT NOT LIMITED TO, DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.

**EASEMENT KEYED NOTES:**

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FOR EASEMENT KEYED NOTES, SEE SHEET C-101

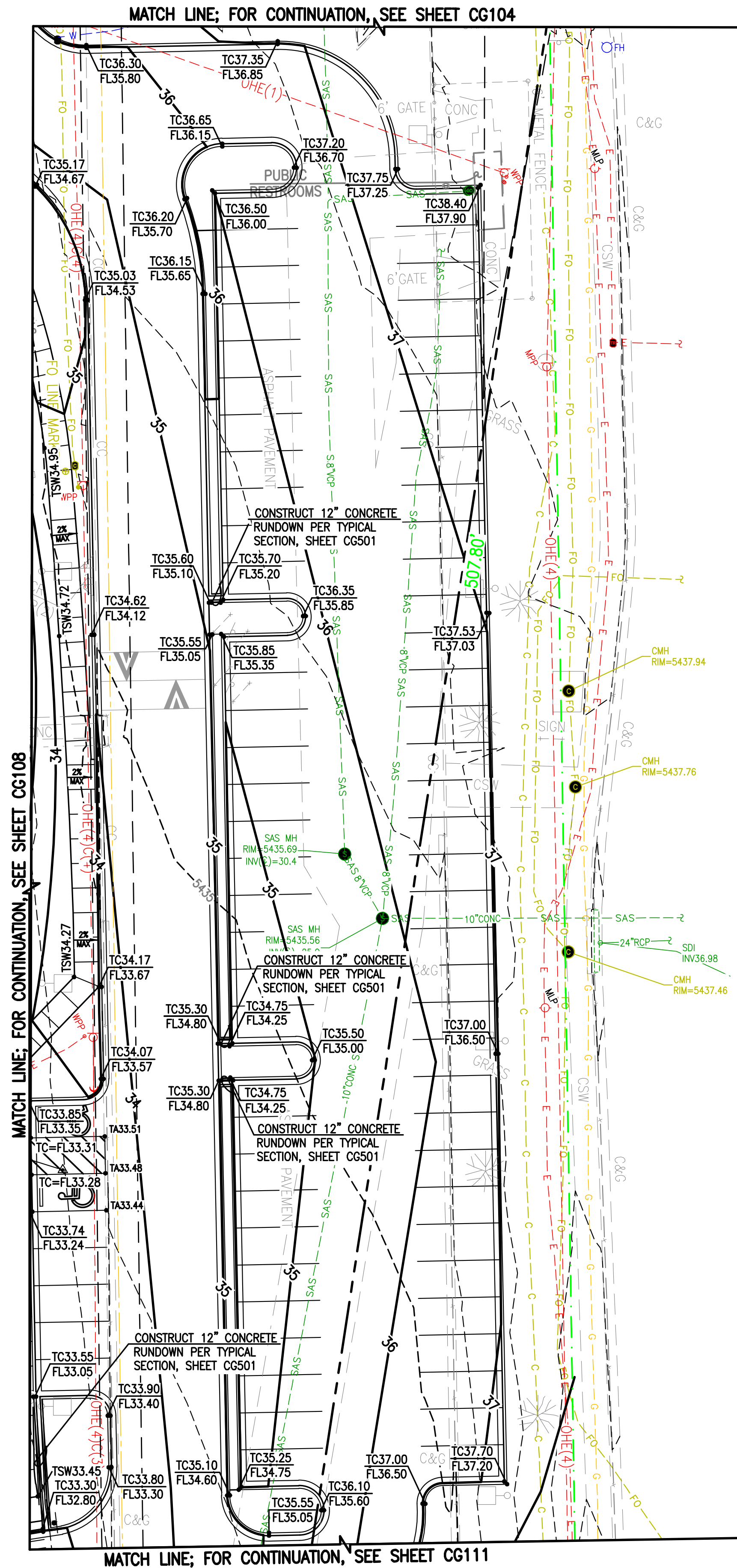
[illegible]

DATE: 08/31/21

LOS ALTOS PARK RENOVATION

DATE 05/01/21  
PROJECT# 759692





**A3** GRADING PLAN - AREA 7  
SCALE: 1" = 20'

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**EASEMENT KEYED NOTES:**

- FOR EASEMENT KEYED NOTES, SEE SHEET C-101

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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION - PHASE 1  
GRADING PLAN - AREA 7

Design Review Committee

City Engineer Approval

Last Design Update

City Project No.  
759692

Zone Map No.  
K-20

Sheet  
CG107



08/31/21

REVISIONS

NO.	DATE	REMARKS	BY
DESIGNED BY:	J.D.S.	DATE	08/31/21
DRAWN BY:	J.Y.R.	DATE	08/31/21
CHECKED BY:	G.M.	DATE	08/31/21

SURVEY INFORMATION

NO.	DATE	BY
2020.040.2	12/02/2020	C.CALA

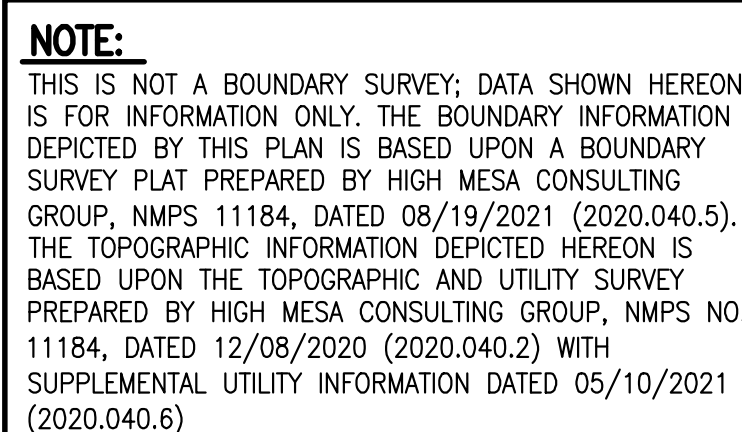
BENCH MARKS

AN AGES BRASS DISK STAMPED "14-K20" SET FLUSH WITH THE TOP OF A CONCRETE CURB, ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.  
ELEVATION = 5381.83 FEET (NAVD 1988)

AS-BUILT INFORMATION

CONTRACTOR	DATE
WORK STARTED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	





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5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY RECORDS MAINTAINED BY THIS FIRM DATED 12/08/2020 AND INCLUDED AS SHEET VU-101 THROUGH VU-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE BY THE ABOVE DESCRIBED SURVEYABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION THEREON, AND ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO ANY EXISTING UTILITY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES. PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
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7. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED ROAD MOVEMENTS AS INDICATED ON THE PLAN. THE CONTRACTOR SHALL NOT LOWER SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.

FOR EASEMENT KEYED NOTES, SEE SHEET C-101

BENCH MARKS		AS-BUILT	INFORMATION
AN AGRS BRASS DISK STAMPED "14-420". SET FLUSH WITH THE TOP OF A CONCRETE CURB, ON THE NOSE OF THE ISLAND, APPROXIMATELY 1213' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.	CONTRACTOR WORKS BY INSPECTOR'S ACCEPTANCE BY FIELD VERIFICATION DATE	DATE	DATE
ELEVATION = 5381.93 FEET (NAVD 1988)	DRAWINGS CORRECTED BY DATE	DATE	DATE
	MICRO-FILM INFORMATION		
	RECORDED BY	DATE	
	NO.		

[illegible]

08/31/21

[illegible]

2020.040.3

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MESA Consulting Group**

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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1  
GRADING PLAN – AREA 8

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 759692		Zone Map No. K-20	Sheet CG108	

DATE: 08/31/21

# LOS ALTOS PARK RENOVATION

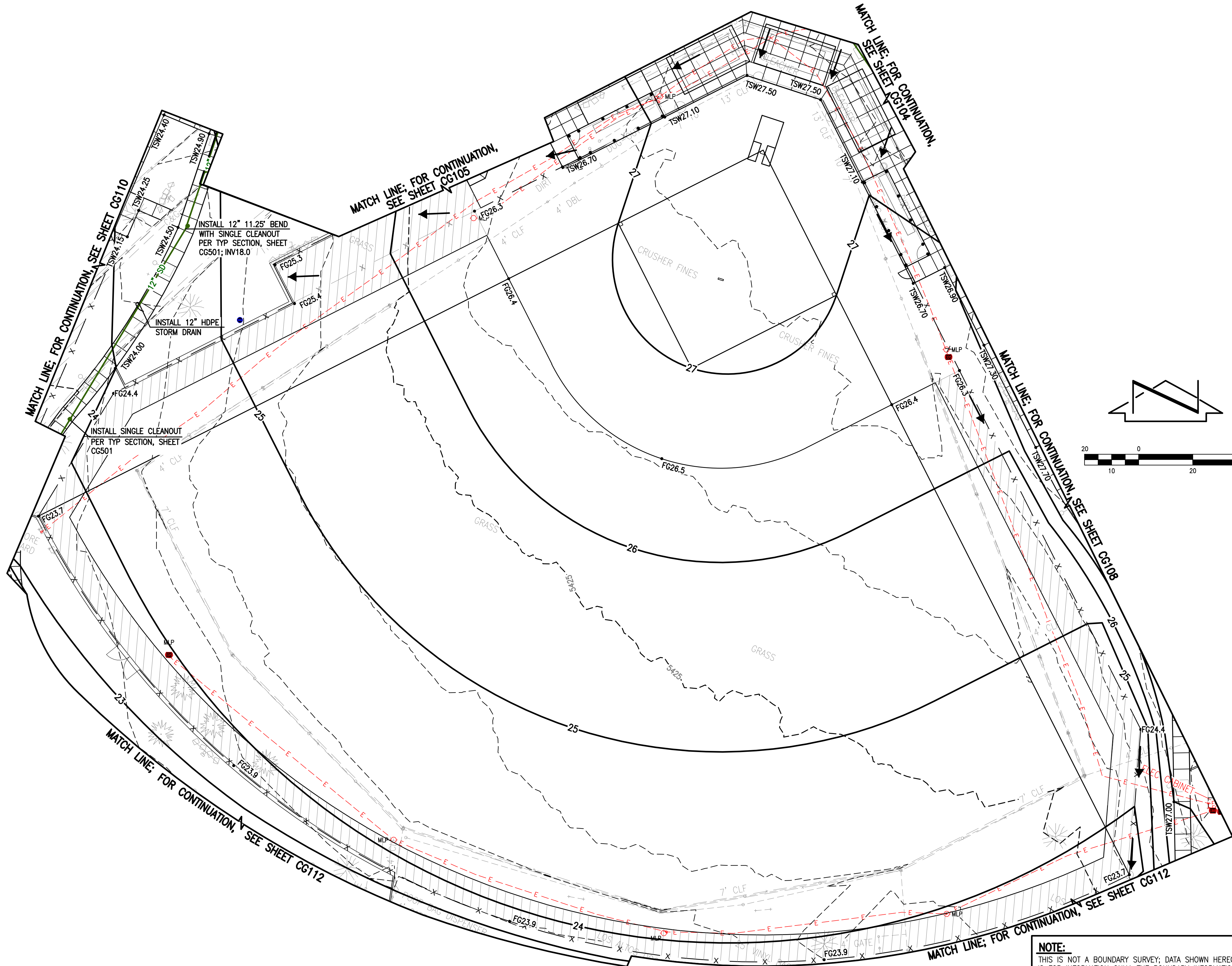
PROJECT# 759692



File Name: P:\data\2020\2020 040 3\ENG\20200403\_DesignBase.dwg - CG109 Plot Date: 9/14/21 Plot Time: 14:50

**A1** GRADING PLAN — AREA 9

SCALE: 1" = 20'



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**EASEMENT KEYED NOTES:**

○ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

**HIGH MESA Consulting Group**  
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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
LOS ALTOS PARK RENOVATION — PHASE 1  
GRADING PLAN — AREA 9

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet		
759692	K-20	CG109		

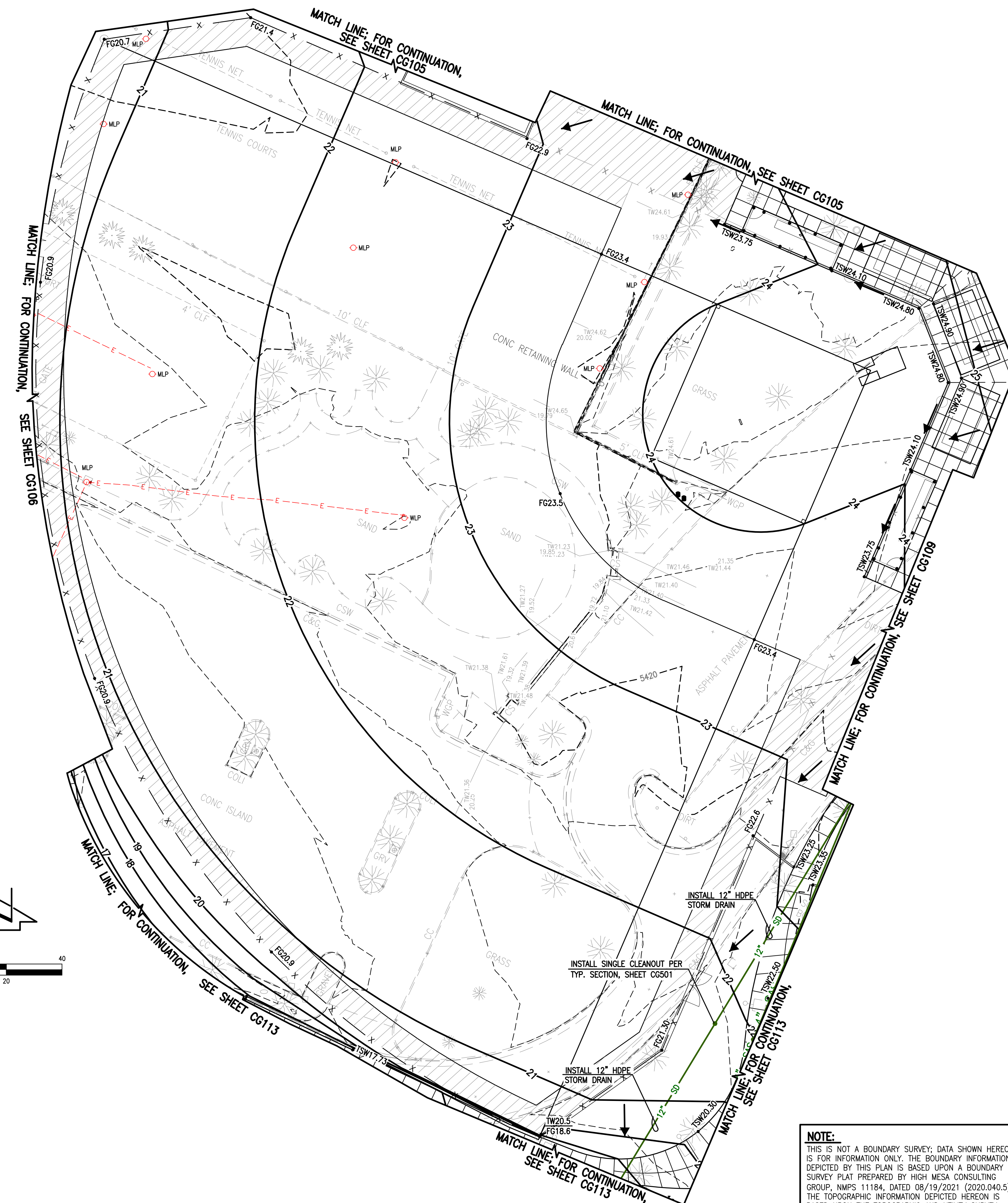
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		REMARKS		BY		DATE		DESIGNED BY: J.D.S.		DRAWN BY: J.Y.R.		CHECKED BY: G.M.	
CONTRACTOR	DATE	WORK DONE BY	DATE	NO.	BY	DATE	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	NO.	NO.	NO.	NO.	NO.
				2020.040.2	C.CALA	12/02/2020															
AN AGES BRASS DISK STAMPED "14-K20" SET FLUSH WITH THE TOP OF A CONCRETE CURB ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.		ELEVATION = 5381.83 FEET (NAVD 1988)																			
MICRO-FILM INFORMATION																					
RECORDED BY	DATE	RECORDED BY	DATE																		

DATE: 08/31/21

LOS ALTOS PARK RENOVATION

PROJECT# 759692





**NOTE:**  
THIS IS NOT A BOUNDARY SURVEY; DATA SHOWN HEREON IS FOR INFORMATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A BOUNDARY SURVEY PLAT PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 08/19/2021 (2020.040.5). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 12/08/2020 (2020.040.2) WITH SUPPLEMENTAL UTILITY INFORMATION DATED 05/10/2021 (2020.04.6)

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ANY POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE GEOGRAPHIC AND UTILITY RECORDS OF THE CITY OF ALBUQUERQUE DATED 12/08/2020 AND INCLUDED AS SHEET WF-101 THROUGH WF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNAVAILABLE DUE TO EITHER UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO LIABILITY OR RESPONSIBILITY OF ANY KIND TO THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES, PLANNING AND UTILITIES RECORDS, AND FIELD DATA. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO BUILDINGS SHALL BE THE RESPONSIBILITY OF THE OWNER. DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
7. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED PAVING OR CURBS SHOWN ON THE PLANS INCLUDING, BUT NOT LIMITED TO, SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.

FOR EASEMENT KEYED NOTES, SEE  
SHEET C-101

BENCH MARKS	AS-BUILT INFORMATION
AN AGRS BRASS DISK STAMPED "14-420". SET FLUSH WITH THE TOP OF A CONCRETE CURB, ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE. ELEVATION = 5381.93 FEET (NAD 1984)	CONTRACTOR  WORK STARTED BY DATE FIELD VERIFICATION DATE DRAWINGS CORRECTED BY DATE MICRO-FILM INFORMATION RECORDED BY DATE NO.

[illegible]

08/31/21

[illegible]

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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1  
GRADING PLAN – AREA 10

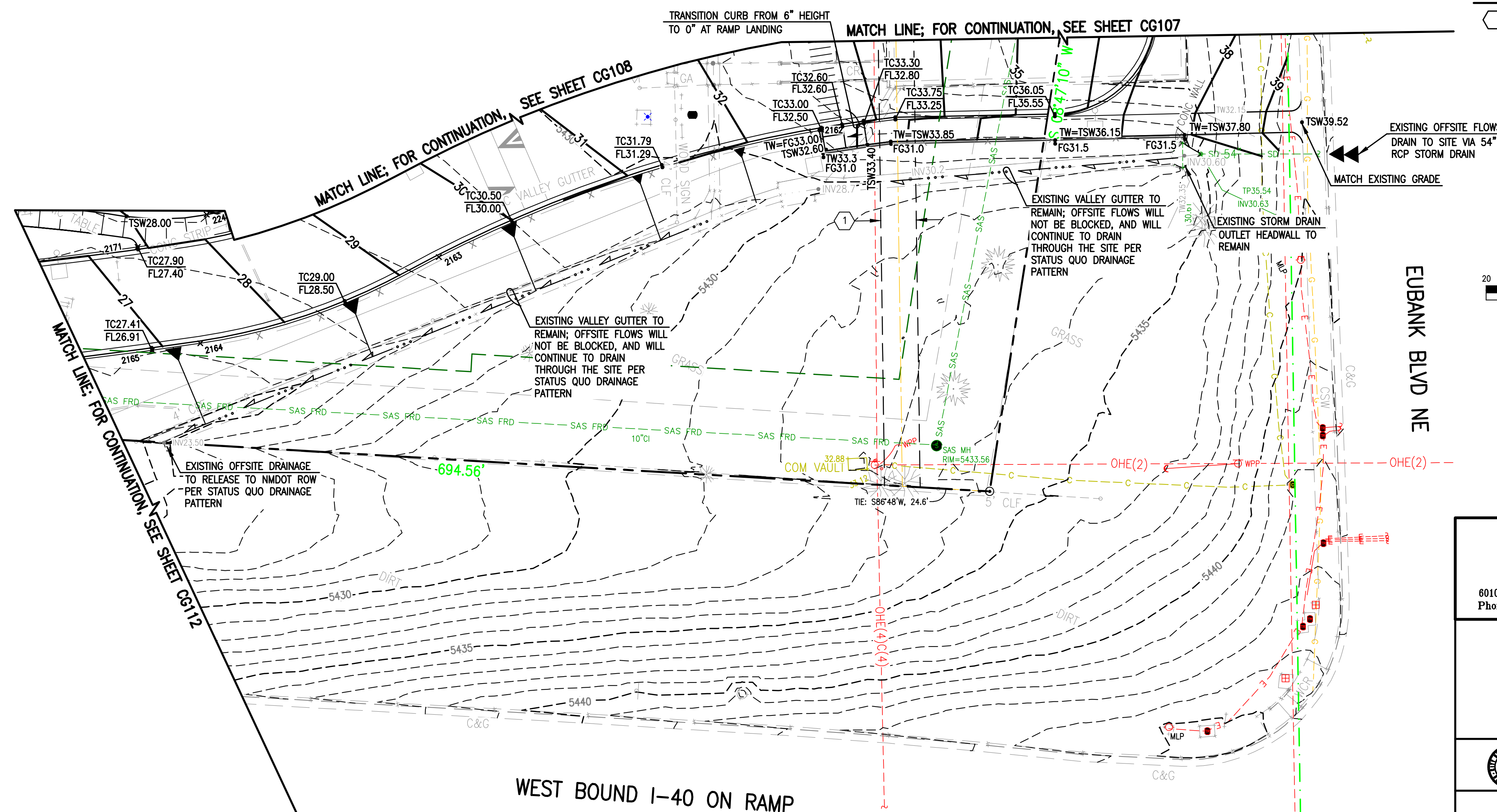
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 759692	Zone Map No. K-20	Sheet CG110		

DATE: 08/31/21

LOS ALTOS PARK RENOVATION

DATE	08/31/21
PROJECT# 759692	





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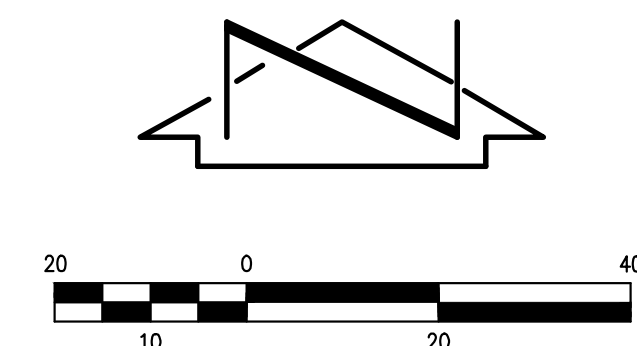
## CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND REMOVE THE HIGHWAY AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DISPERSED MATERIALS WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/28/2020 AND INCLUDED AS SHEET VF-101 THROUGH VF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN OBSERVED OR DETECTED BY OTHER MEANS, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING HERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES IN ANY MANNER. THE CONTRACTOR SHALL COMPLY WITH STATE STANDARDS, NEW MEXICO EXCAVATION LAWS (NWM81), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE DRIVE SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE, FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
7. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SURGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLAN. THIS INCLUDES, BUT NOT LIMITED TO, DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.

**EASEMENT KEYED NOTES:**

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FOR EASEMENT KEYED NOTES, SEE SHEET C-101



**HIGH**  
**MESA Consulting Group**

6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109  
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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1  
GRADING PLAN – AREA 11

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 759692	Zone Map No. K-20	Sheet CG111		

DATE: 08/31/21

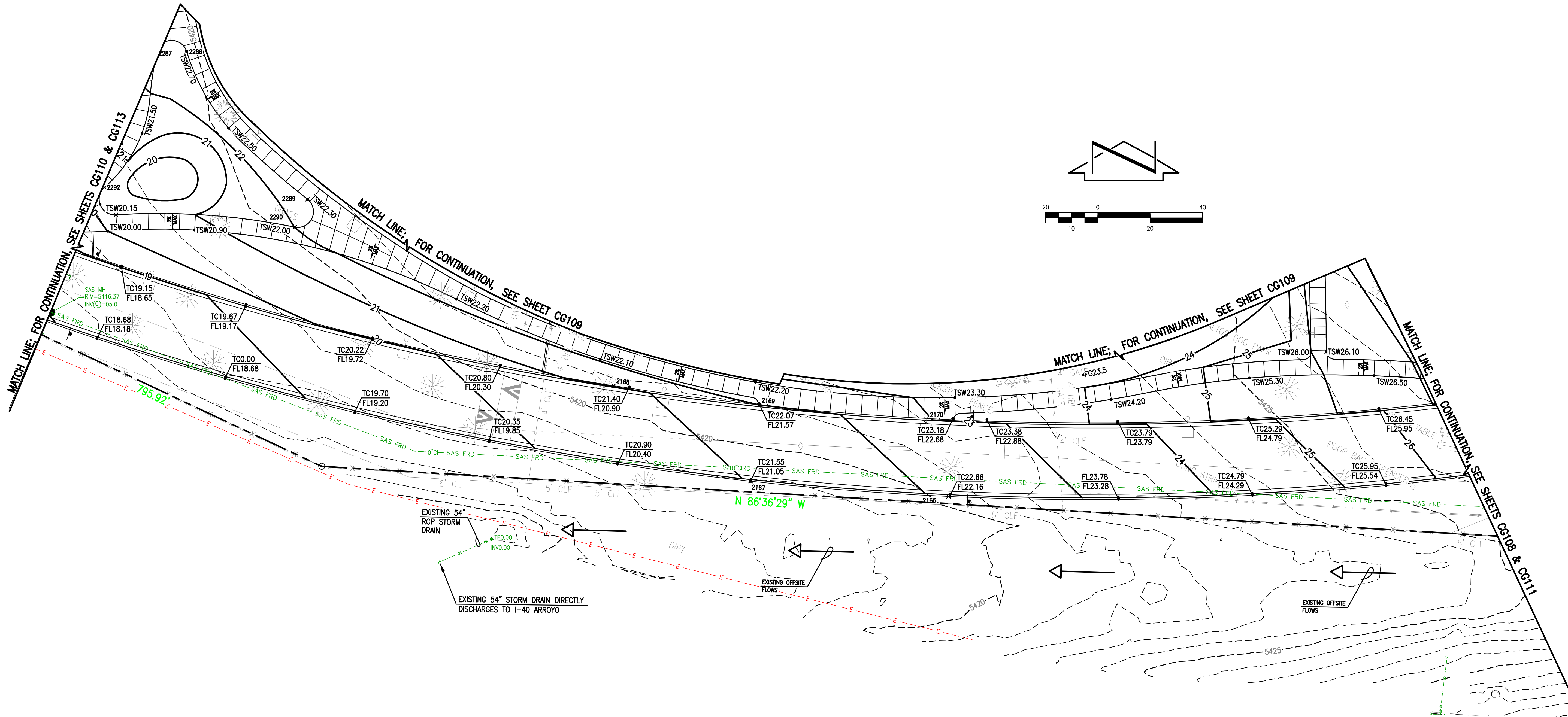
LOS ALTOS PARK RENOVATION

DATE 08/31/21  
PROJECT# 759692



**B1** GRADING PLAN – AREA 12

SCALE: 1" = 20'



**EASEMENT KEYED NOTES:**

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

**CONSTRUCTION NOTES:**

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
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- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/08/2020 AND INCLUDED AS SHEET VF-101 THROUGH VF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE

- FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
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**HIGH MESA Consulting Group**

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CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1  
GRADING PLAN – AREA 12

Design Review Committee

City Engineer Approval

Last Design Update

Mo./Day/Yr.

Mo./Day/Yr.

City Project No.  
759692

Zone Map No.  
K-20

Sheet  
CG112

ENGINEER'S SEAL



08/31/21

SURVEY INFORMATION

FIELD NOTES

NO. BY DATE

2020.040.2 C.CALA 12/02/2020

BENCH MARKS

AN AGES BRASS DISK STAMPED "14-K20" SET FLUSH WITH THE TOP OF A CONCRETE CURB. ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.  
ELEVATION = 5381.83 FEET (NAVD 1988)

AS-BUILT INFORMATION

CONTRACTOR WORK STAMPED BY  
DATE  
CORRECTIONS BY  
DATE  
FIELD VERIFICATION BY  
DATE  
REVISIONS CORRECTED BY  
DATE  
MICRO-FILM INFORMATION  
RECORDED BY  
DATE

DATE: 08/31/21

LOS ALTOS PARK RENOVATION

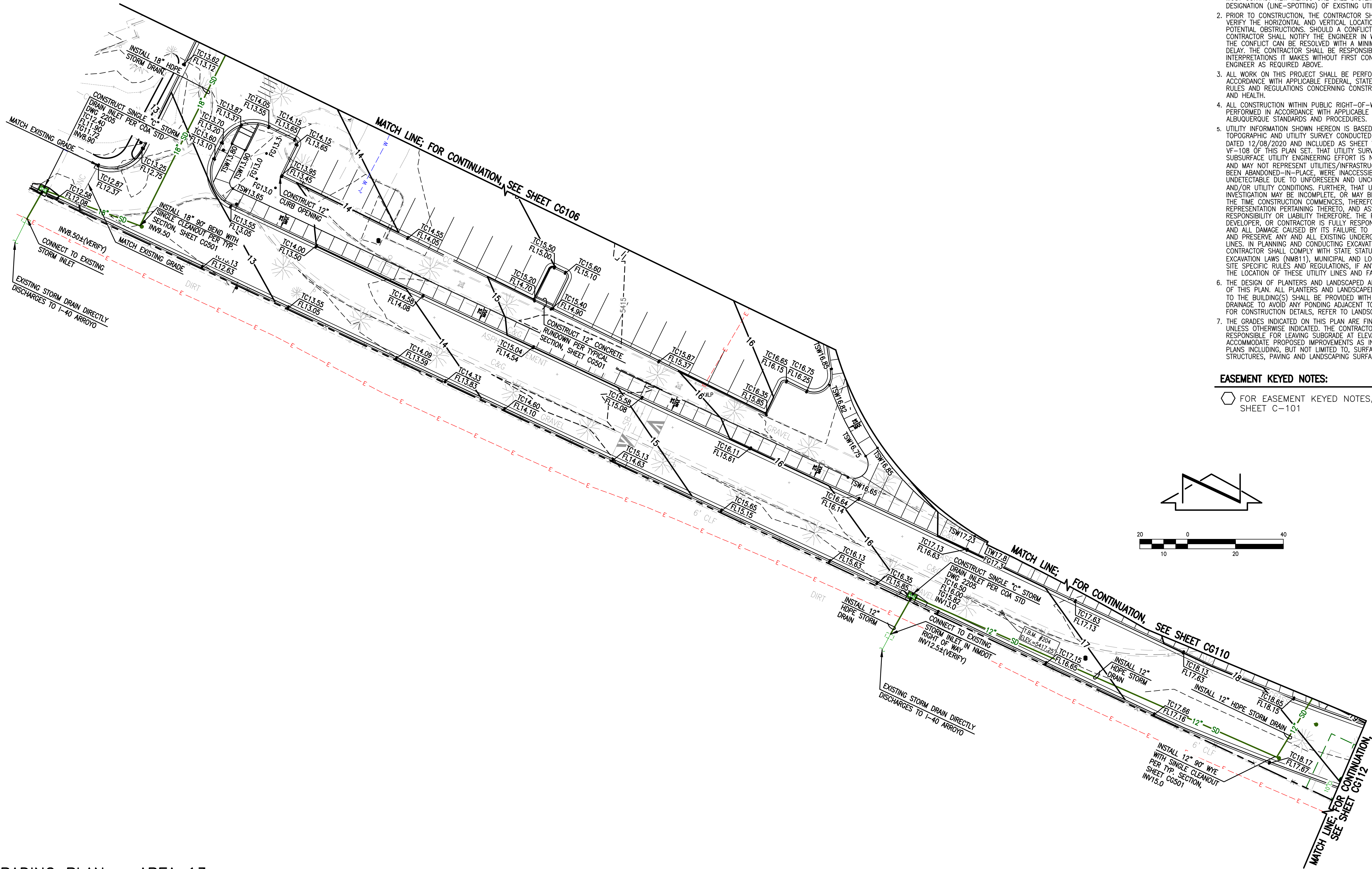
PROJECT# 759692



File Name: P:\data\2020\2020\040.3\ENG\20200403\_DesignBase.dwg - CG113 Plot Date: 9/14/21 Plot Time: 15:14

**A1** GRADING PLAN — AREA 13

SCALE: 1" = 20'

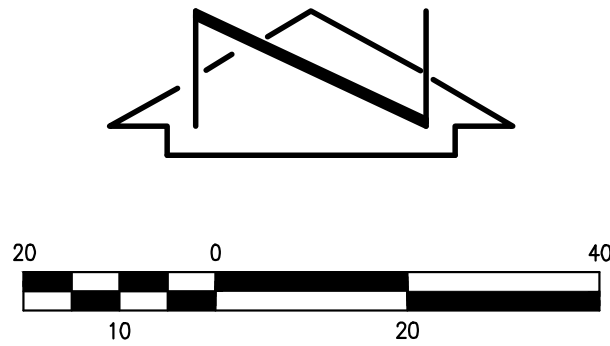


**CONSTRUCTION NOTES:**

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5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/08/2020 AND INCLUDED AS SHEET VF-101 THROUGH VF-108 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
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**EASEMENT KEYED NOTES:**

- FOR EASEMENT KEYED NOTES, SEE SHEET C-101



AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ARCHITECTURAL SEAL		REVISIONS		REMARKS		DESIGNED BY: J.D.S.		DRAWN BY: J.Y.R.		CHECKED BY: G.M.	
CONTRACTOR	DATE	WORK DONE BY	DATE	NO.	BY	DATE	DATE	NO.	DATE	NO.	DATE	DATE	DATE	DATE	DATE	DATE	DATE
MICRO-FILM INFORMATION		RECORD BY		RECORD BY		RECORD BY		RECORD BY		RECORD BY		RECORD BY		RECORD BY		RECORD BY	

08/31/21

LOS ALTOS PARK RENOVATION

PROJECT# 759692

DATE: 8/31/21

2020.040.3

**HIGH MESA Consulting Group**

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**MRWM**  
LANDSCAPE ARCHITECTS  
mrwmia.com 505 268 2266

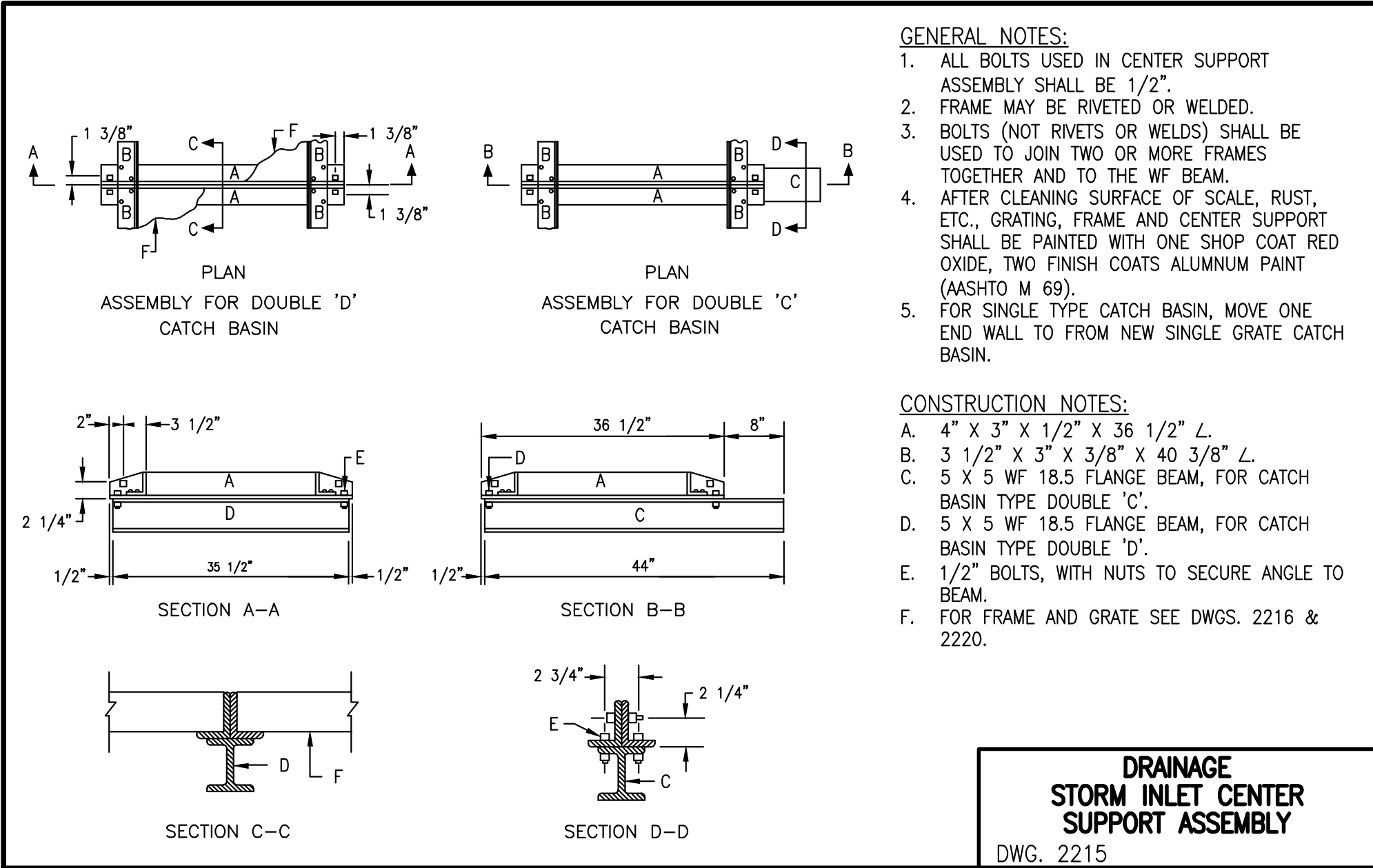
CITY OF ALBUQUERQUE  
STRATEGIC PLANNING AND DESIGN  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION — PHASE 1  
GRADING PLAN — AREA 13

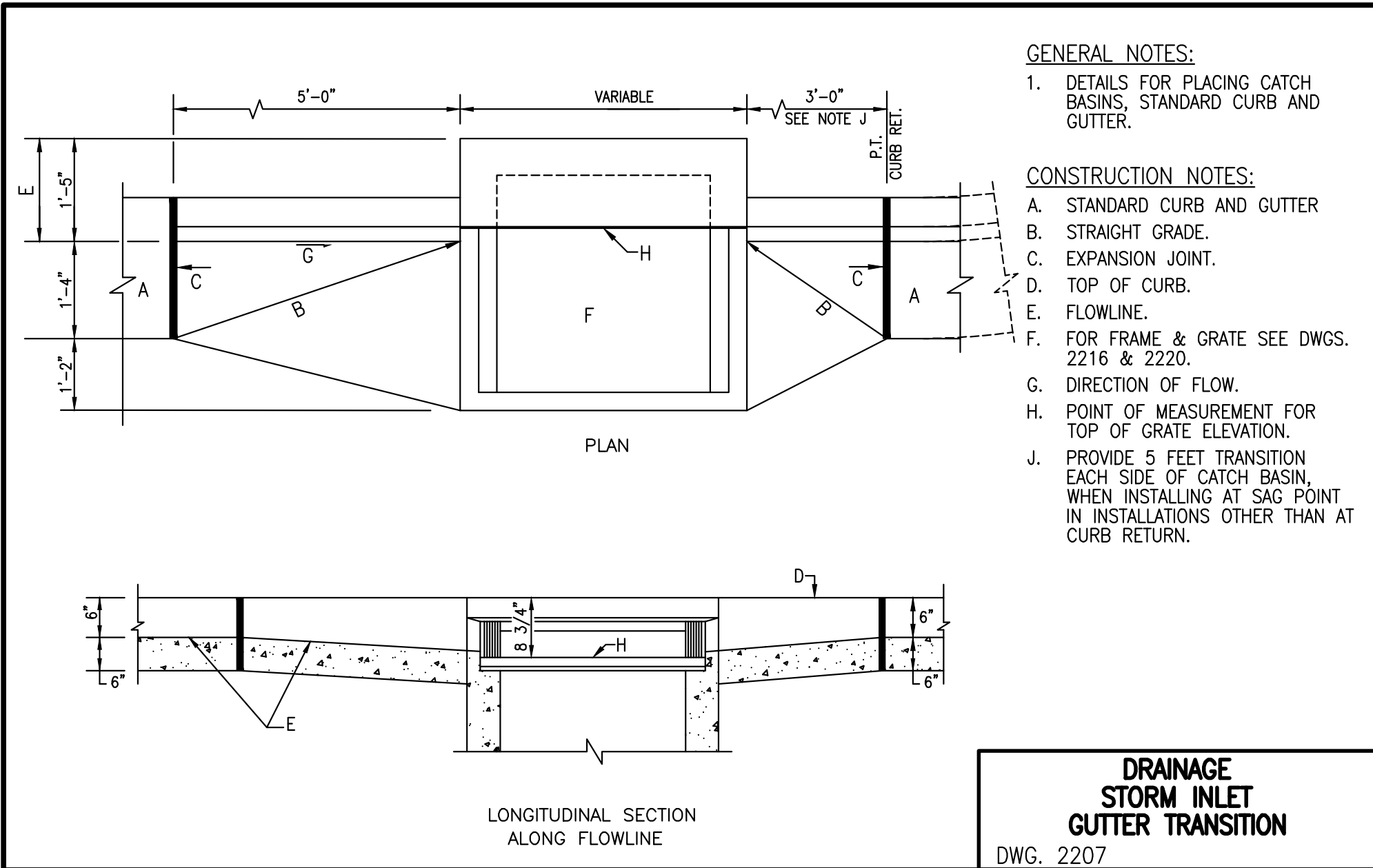
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet
3858.93	K-20	CG113

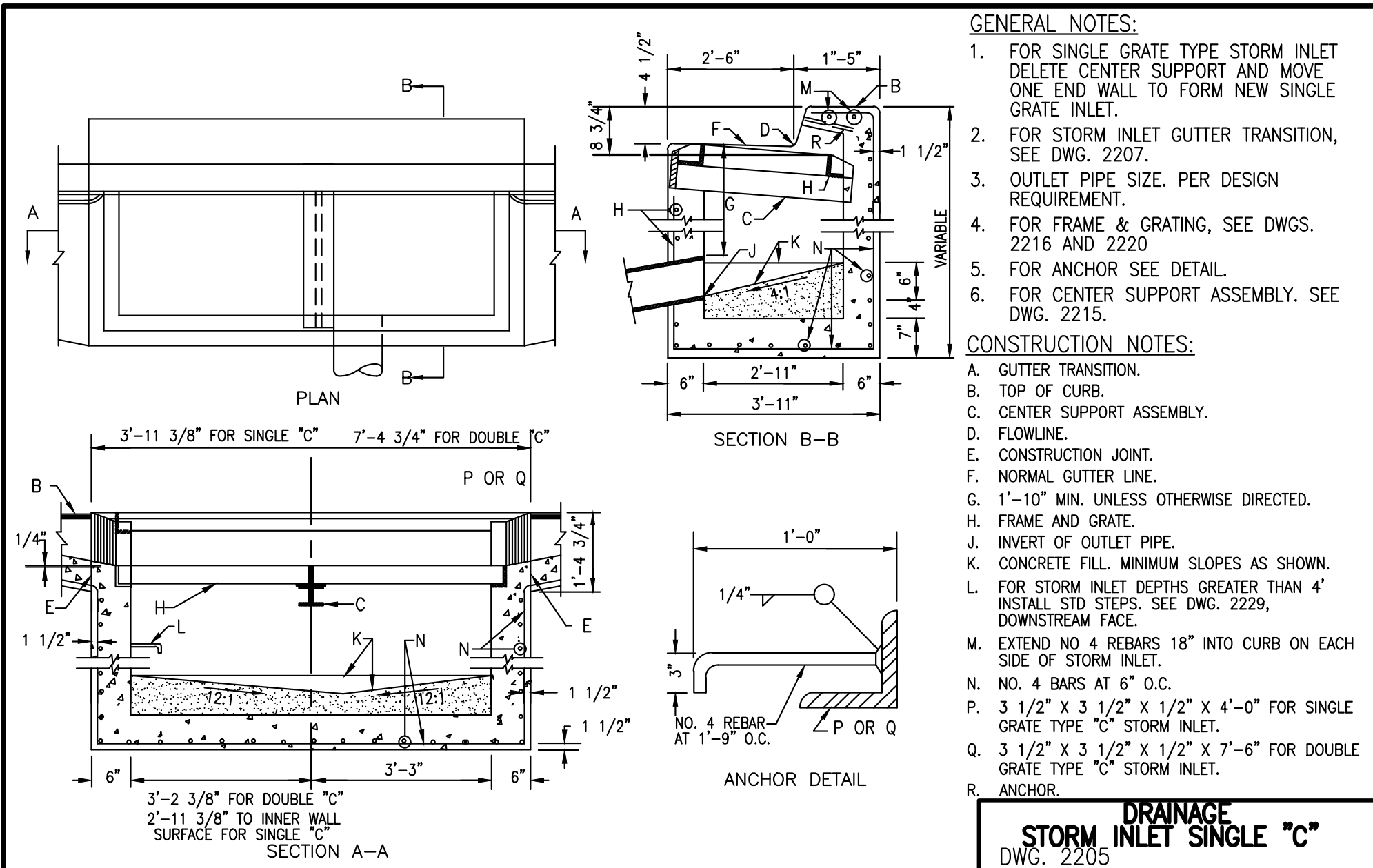




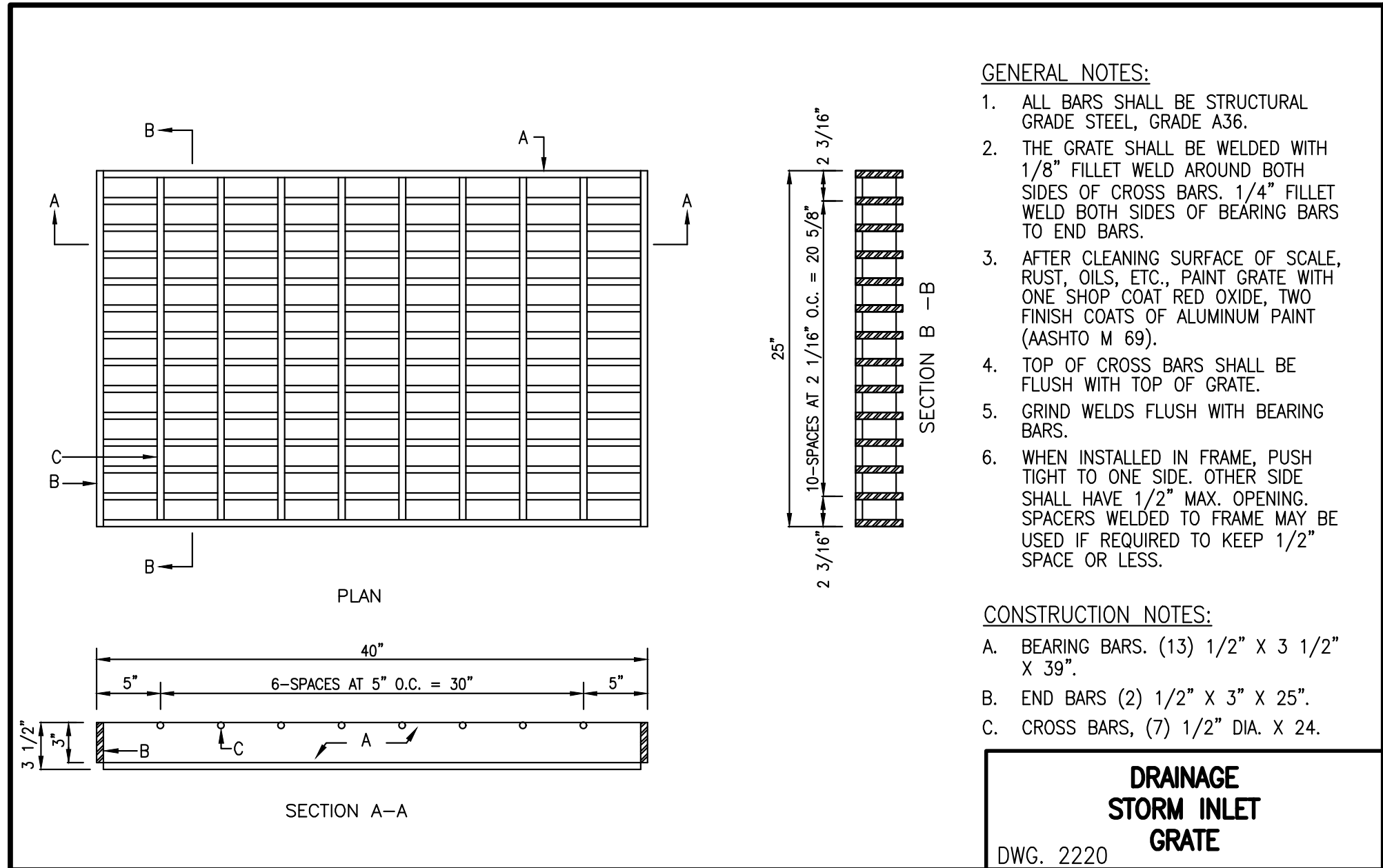
**DRAINAGE  
STORM INLET CENTER  
SUPPORT ASSEMBLY**  
DWG. 2215



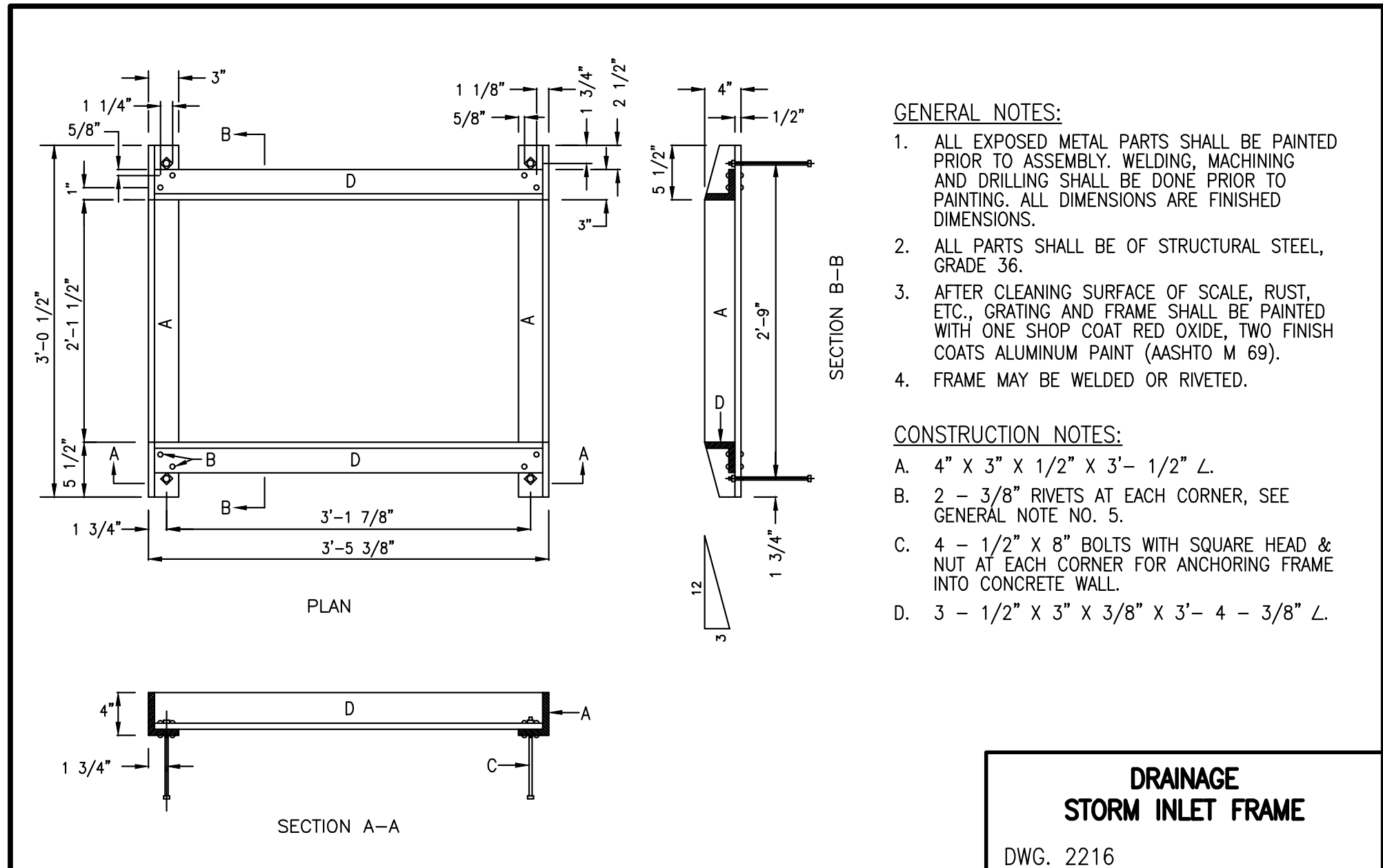
**DRAINAGE  
STORM INLET  
GUTTER TRANSITION**  
DWG. 2207



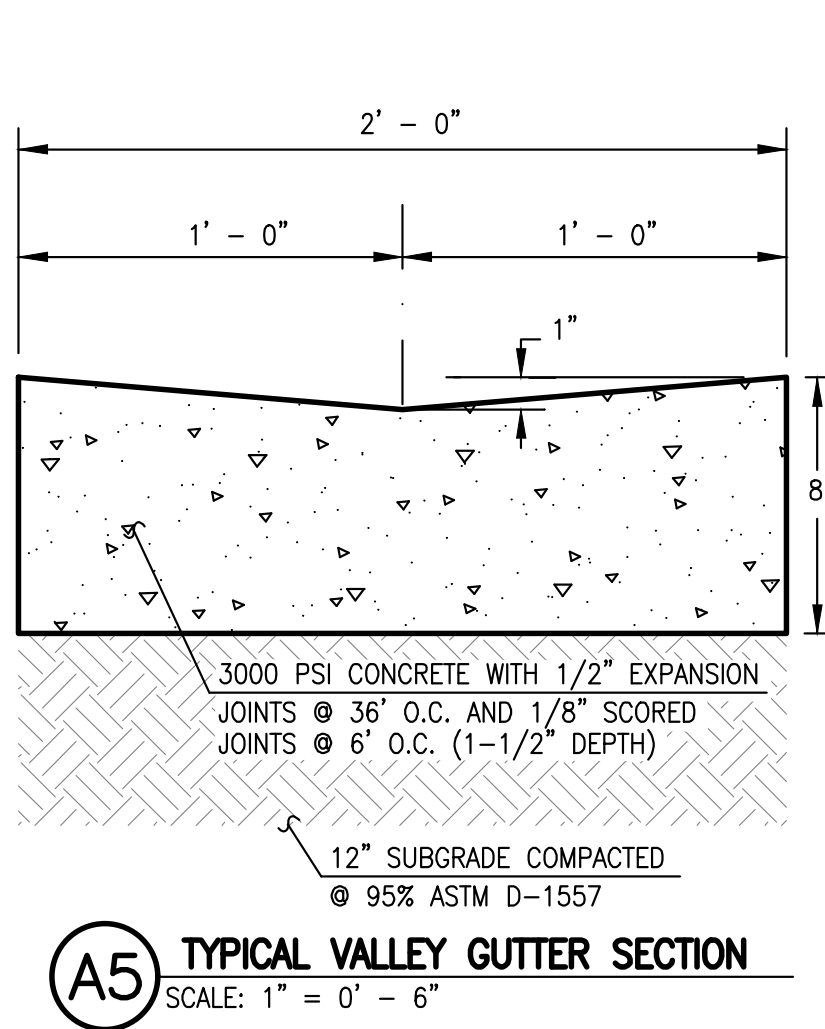
**DRAINAGE  
STORM INLET SINGLE "C"**  
DWG. 2205



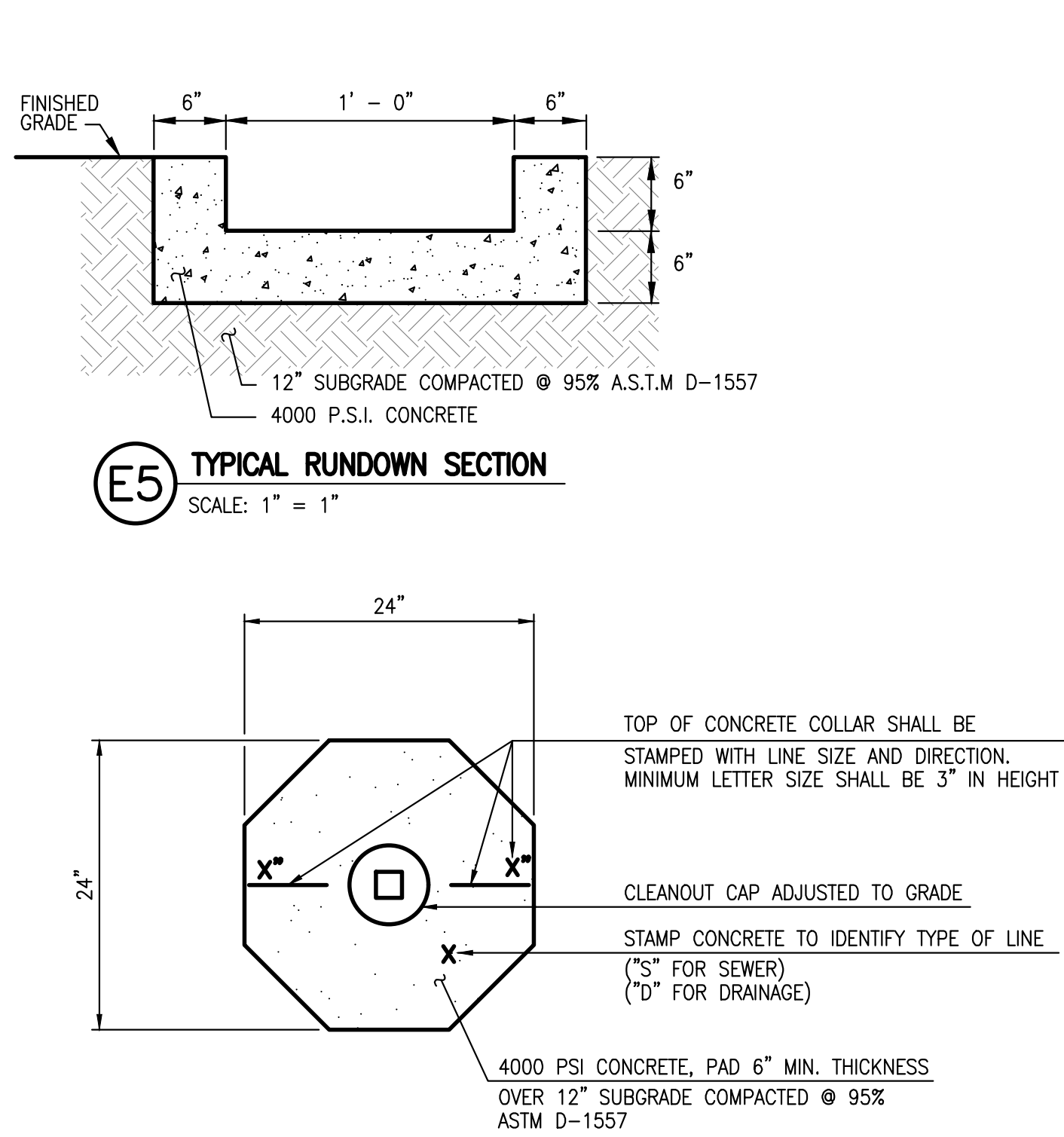
**DRAINAGE  
STORM INLET  
GRATE**  
DWG. 2220



**DRAINAGE  
STORM INLET FRAME**  
DWG. 2216

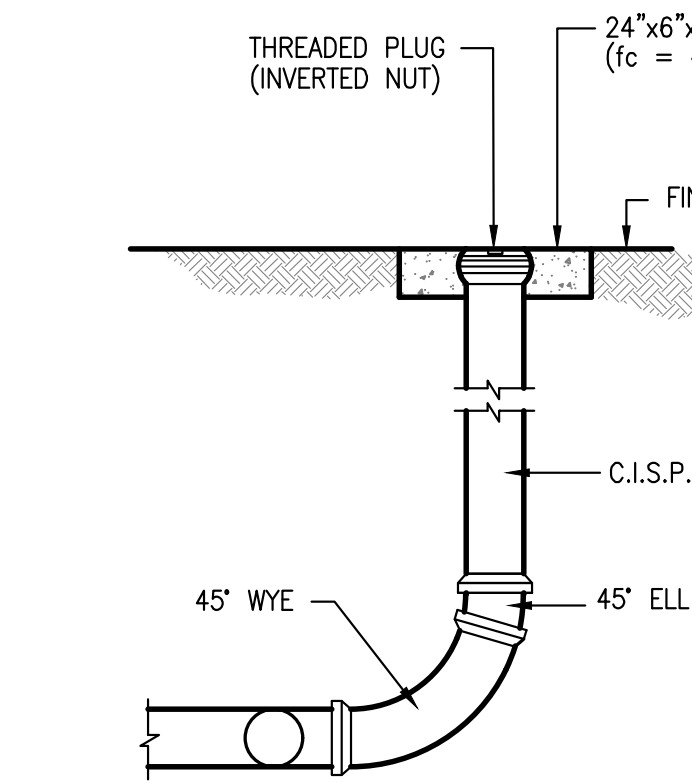


**A5 TYPICAL VALLEY GUTTER SECTION**  
SCALE: 1" = 0' - 6"



**E5 TYPICAL RUNDOWN SECTION**  
SCALE: 1" = 1"

**D5 TYPICAL CLEANOUT COLLAR DETAIL**  
SCALE: 1" = 1"



**E5 TYPICAL SINGLE CLEANOUT SECTION**  
NOT TO SCALE

**2020.040.3**

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Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesag.com

**MRWM**  
LANDSCAPE ARCHITECTS  
mrwmia.com 505.268.2266

DESIGNED BY: J.D.S.		DATE: 08/31/21	REVISIONS	
DRAWN BY: J.Y.R.		DATE: 08/31/21	REMARKS	
CHECKED BY: G.M.		DATE: 08/31/21	NO.	
City Project No.		Zone Map No.	Sheet	
759692		K-20	CG501	

CONTRACTOR		AS-BUILT INFORMATION	
WORK ORDER BY		DATE	
APPROVED BY		DATE	
FIELD VERIFICATION BY		DATE	
CORRECTED BY		DATE	
RECORDED BY		DATE	
NO.		MICRO-FILM INFORMATION	
AN AGES BRASS DISK STAMPED "14-K20" SET FLUSH WITH THE TOP OF A CONCRETE CURB ON THE NOSE OF THE ISLAND APPROXIMATELY 123' NORTH OF THE INTERSECTION OF COPPER AVENUE NE AND WYOMING BOULEVARD NE.		ELEVATION = 5381.83 FEET (NAVD 1988)	

08/31/21

PROJECT# 759692

LOS ALTOS PARK RENOVATION

DATE: 08/31/21