CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director

Mayor Timothy M. Keller

December 8, 2021

Graeme Means, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, NM 87109

Re: Los Altos Park Renovation – Phase I, K20D037

Dear Mr. Means,

Based upon the information provided in your submittal received 11/29/2021, the Grading & Drainage Plans is approved with following conditions:

1. The plans approved were with Engineer's Stamp date of 11/23/2021 for sheets C100, C101A, CG101-107, CG108-110, CG113 & CG501, Engineer's Stamp date of 8/03/2021 for sheet CG107, and Engineer's Stamp date of 12/03/2021 for sheets CG111 & CG112.
2. Payment-in-Lieu for Storm Water Quality Volume Requirement is $30,160.00 (please see attached payment sheet).
3. Please attach a copy of this approved plan in the construction set. Prior to approval of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.
4. Contractor must obtain all the necessary permits from NMDOT to perform work within the NMDOT right-of-way.

If you have any questions, please contact me at 924-3999.

Sincerely,

Shahab Biazar, P.E., CFM
City Engineer, Planning Dept.
Development and Review Services

C: file

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

TREASURY DIVISION DAILY DEPOSIT

Transmittals for:
PROJECTS Only

Payment-in-Lieu for Storm Water Quality Volume Requirement

CASH COUNT	AMOUNT	ACCOUNT NUMBER	FUND NUMBER	BUSINESS UNIT	PROJECT ID	ACTIVITY ID	AMOUNT
TOTAL CHECKS	$ 30,160.00	461615	305	PCDMD	24_MS4	7547210	$ 30,160.00
TOTAL AMOUNT						TOTAL DEPOSIT	**$30,160.00**

Hydrology#: K20D037 Name: City of Albuquerque/Parks and Recreation
Payment In-Lieu For Storm Water Quality Volume Requirement

Address/Legal Description: Los Altos Park Renovation

DEPARTMENT NAME: Planning Department/Development Review Services, Hydrology

PREPARED BY Shahab Biazar, P.E., CFM PHONE (505) 924-3999

BUSINESS DATE December 8, 2021

DUAL VERIFICATION OF DEPOSIT _____
EMPLOYEE SIGNATURE

AND BY _____
EMPLOYEE SIGNATURE

REMITTER: _____
AMOUNT: _____
BANK: _____
CHECK #: _____ DATE ON CHECK: _____

The Payment-in-Lieu can be paid at the Plaza del Sol Treasury, 600 2nd St. NW. **Bring three copies of this invoice to the Treasury** and provide a copy of the receipt to Hydrology, Suite 201, 600 2nd St. NW, or e-mail with the Hydrology submittal to PLNDRS@cabq.gov.

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Los Altos Park - Phase 1 Building Permit #: BP-2021-40007 Hydrology File #: K-20/D037

DRB#: _____ EPC#: _____ Work Order#: CPN 759692

Legal Description: A Portion of Tract 4, North of Interstate 40, Municipal Addition No. 2 (Los Altos Park)

City Address: 10100 Lomas Blvd NE, Albuquerque NM 87112

Applicant: High Mesa Consulting Group Contact: Graeme Means

Address: 6010-B Midway Park Blvd NE, Albuquerque NM 87109

Phone#: 505-345-4250 Fax#: 505-345-4254 E-mail: gmeans@highmesacg.com

Other Contact: MRWM Architects Contact: Aaron Zahm

Address: 1102 Mountain Road NW #201, Albuquerque NM 87102

Phone#: 505-268-2266 Fax#: _____ E-mail: azahm@mrwmla.com

TYPE OF DEVELOPMENT: ____ PLAT (# of lots) ____ RESIDENCE ____ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL? X Yes ____ No

DEPARTMENT ____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
X GRADING PLAN
X 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:

X 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: 11-29-21 By: Justin Schara

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 (CITY-OWNED LOS ALTOS PARK) WITHIN AN INFILL AREA. THIS 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 NMDOT RIGHT-OF-WAY. THE COA AND NMDOT HAVE ENTERED INTO A RIGHT-OF-WAY USE AGREEMENT TO ALLOW THE CONTINUED USE OF THE PORTIONS OF THE DEVELOPED AREA WITHIN NMDOT 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 LINE 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 IMPACT 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 NMDOT 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 DENOTED 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 HORSHOE 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 FIELDS. TENNIS COURTS, AND OTHER LANDSCAPED 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 I-40 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 THIS PROJECT SITE, AS NOTED ABOVE, THIS BASIN SHEET FLOWS ACROSS THE SITE FROM NORTHEAST TO SOUTH WEST, 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 NMDOT RIGHT OF WAY. THIS INLET IS CONNECTED TO THE 54" 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 NMDOT 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 NMDOT RIGHT-OF-WAY TO THE SOUTH, AS THEY ARE TOPOGRAPHICALLY LOWER THAN THE PROJECT SITE. THERE ARE OFFSITE FLOWS ONTO THE SOUTHEAST CORNER OF THE SITE THAT DISCHARGE FROM A LARGE **54"** RCP CULVERT EXTENDING ACROSS EUBANK BLVD NE. THIS CULVERT RELEASES ~160 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 ULTIMATELY DISCHARGE INTO 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.

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 OVERALL PHASE 1 SITE DRAINAGE 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 TO THE I-40 NMDOT 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 DEDICATED 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 REPEAT THE EXISTING DRAINAGE PATTERN OF FREE DISCHARGE AT TWO FIXED 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 NMDOT 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 DIRECT CONNECTED TO THE I-40 DRAINAGE CHANNEL BY LARGE DIAMETER RCP PIPE. THIS DIRECT PIPE 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 NMDOT 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 VIA SURFACE FLOW ACROSS THE SOFTBALL FIELDS, PARKING LOTS, 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 PEDESTRIAN ACCESS AND LANDSCAPED AREAS. SURFACE FLOW STORMWATER AND SUBSURFACE PIPED DRAINAGE WILL ULTIMATELY CONVERGE AT A NEW CURB INLET IN THE SOUTH ACCESS ROAD LOCATED IMMEDIATELY NORTH OF THE DOUBLE "D" STORM INLET IN THE I-40 NMDOT 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 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 NMDOT 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 NMDOT RIGHT-OF-WAY TO THE SOUTH, OR LOS ALTOS POOL & ALBUQUERQUE GARDEN CENTER TO THE WEST. THERE CONTINUES TO BE OFFSITE FLOWS ONTO THE SOUTHEAST CORNER OF THE SITE FROM A LARGE **54"** RCP CULVERT EXTENDING ACROSS EUBANK BLVD NE. THIS CULVERT RELEASES ~160 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 ULTIMATELY DISCHARGE INTO THE I-40 RIGHT-OF-WAY TO THE SOUTH. THIS EXISTING VALLEY GUTTER AND EARTHEN DRAINAGE CHANNEL WILL BE MAINTAINED IN ITS EXISTING CONDITION, WHILE THE NEW SLOPE UP TO THE NEW SOUTH ACCESS ROAD LOCATED IMMEDIATELY ADJACENT TO THIS CHANNEL WILL BE STABILIZED WITH SHOTCRETE AND LARGE COBBLES TO MITIGATE POTENTIAL EROSION DURING ANY FUTURE 100-YEAR STORM EVENTS. AS PER THE EXISTING CONDITIONS, THESE OFFSITE FLOWS WILL CONTINUE TO ULTIMATELY DRAIN TO 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 (4300 CF STORM WATER QUALITY RETENTION ONSITE). HOWEVER, DUE TO THE USER REQUIREMENTS OF THE SITE LIMITING OPPORTUNITIES FOR SIGNIFICANT RETENTION ONSITE, THE SITE WILL NOT RETAIN THE GENERATED STORM WATER QUALITY (FIRST FLUSH) VOLUME OF 8,070 CF (3,770 CF RELEASED). THEREFORE, THE SITE IS ANTICIPATED TO REQUIRE AN ALTERNATIVE OPTION OF A "FEE-IN-LIEU" IN THE AMOUNT OF $30,160 (3,770 CF * $8.00/CF) TO MEET THE CITY ORDINANCE REQUIREMENTS.***

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 PROCEDURE 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 FROM 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:

1. THIS DRAINAGE PLAN ADDRESSES THE PHASE 1 LOS ALTOS PARK IMPROVEMENTS FOR THE EASTERN PORTION OF THE OVERALL PARK PROPERTY; FUTURE DEVELOPMENT FOR THE WESTERN PORTION OF THE PARK WILL REQUIRE SEPARATE SUBMITTAL.
2. THE PROPOSED IMPROVEMENTS WILL MAINTAIN THE EXISTING DRAINAGE PATTERNS OF THE SITE, RELEASING GENERATED STORMWATER RUNOFF TO THE INTERSTATE-40 NMDOT RIGHT-OF-WAY / DRAINAGE CHANNEL VIA TWO DISCHARGE POINTS LOCATED IMMEDIATELY UPSTREAM OF NMDOT 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 NMDOT RIGHT-OF-WAY.
3. THE PROPOSED IMPROVEMENTS WILL MAINTAIN THE STATUS QUO FOR THE SITE OF FREE DISCHARGE TO THE I-40 NMDOT 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 NMDOT RIGHT-OF-WAY.
4. THE PROPOSED DEVELOPMENT WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS.
5. STORMWATER QUALITY DEPRESSED LANDSCAPED AREAS WILL CAPTURE AND TREAT STORMWATER RUNOFF FROM THE SITE TO THE MAXIMUM EXTENT PRACTICABLE ($V_{SWQV\ RETAINED}$ = **4,300 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, ADDRESSING THE FEE-IN-LIEU ALTERNATIVE OPTION FOR THE AMOUNT OF VOLUME RELEASED FROM THE OVERALL PROJECT SITE (**3770 CF**) WILL BE COORDINATED BETWEEN THE PARK OWNER AND THE CITY HYDROLOGY DEPARTMENT.

⚠ CALCULATIONS:

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

A. PRECIPITATION ZONE = **3**

B. $P_{100,\ 6\ HR}$ = P_{360} = **2.43** IN

C. LAND TREATMENTS

1.

EXISTING LAND TREATMENT				DEVELOPED LAND TREATMENT			
ONSITE (WEST) DRAIN BASIN	532,920 SF			532,920 SF			
	12.23 AC			12.23 AC			
LAND TREATMENT	AREA (SF/AC)		%	AREA (SF/AC)			%
A							
B	140,730	SF	26%	196,020	SF		37%
	3.23	AC		4.50	AC		
C	150,730	SF	28%	80,900	SF		15%
	3.47	AC		1.86	AC		
D	241,460	SF	46%	256,000	SF		48%
	5.54	AC		6.88	AC		

⚠ a

DEVELOPED LAND TREATMENT					
WEST SUB-BASIN	TOTAL AREA (AC)	LAND TREATMENT (AC)			
		A	B	C	D
WEST-1	3.56		0.26	0.26	3.02
WEST-2	2.46		1.10	1.10	0.26
WEST-3	6.21		3.10	0.50	2.60

2.

EXISTING LAND TREATMENT				DEVELOPED LAND TREATMENT			
ONSITE (EAST) DRAIN BASIN	514,740 SF			514,740 SF			
	11.82 AC			11.82 AC			
LAND TREATMENT	AREA (SF/AC)		%	AREA (SF/AC)			%
A							
B	189,940	SF	37%	248,200	SF		48%
	4.36	AC		5.70	AC		
C	215,800	SF	42%	145,140	SF		28%
	4.95	AC		3.34	AC		
D	109,000	SF	21%	121,400	SF		24%
	2.50	AC		2.79	AC		

⚠ a

DEVELOPED LAND TREATMENT					
EAST SUB-BASIN	TOTAL AREA (AC)	LAND TREATMENT (AC)			
		A	B	C	D
EAST-1	1.81		1.22	0.60	0.19
	4.96 AC				
EAST-2	1.93		1.00	0.45	0.48
EAST-3	8.08		3.48	2.29	2.12

HYDROLOGY

A. **EXISTING CONDITION 100 YEAR STORM**

1. **ONSITE (WEST) DRAIN BASIN**

a. VOLUME 100-YR, 6-HR

$WT_E = (E_A \cdot A_A + E_B \cdot A_B + E_C \cdot A_C + E_D \cdot A_D)/A_T$

$\Rightarrow (0.67 \cdot 0.00) + (0.86 \cdot 3.23) + (1.09 \cdot 3.47) + (2.58 \cdot 5.54)/12.23 =$ **1.70 IN**

$V_{100,6\ HR} = (E_W/12) \cdot A_T \Rightarrow (1.70/12) \cdot 12.23 =$ **1.7332 AC-FT =** **75,500 CF**

b. PEAK DISCHARGE 100-YR

$Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

$\Rightarrow (1.84 \cdot 0.00) + (2.49 \cdot 3.23) + (3.17 \cdot 3.47) + (4.49 \cdot 5.54) =$ **43.9 CFS**

2. **ONSITE (EAST) DRAIN BASIN**

a. VOLUME 100-YR, 6-HR

$WT_E = (E_A \cdot A_A + E_B \cdot A_B + E_C \cdot A_C + E_D \cdot A_D)/A_T$

$\Rightarrow (0.67 \cdot 0.00) + (0.86 \cdot 4.36) + (1.09 \cdot 4.96) + (2.58 \cdot 2.50)/11.82 =$ **1.32 IN**

$V_{100,6\ HR} = (E_W/12) \cdot A_T \Rightarrow (1.32/12) \cdot 11.82 =$ **1.2998 AC-FT =** **56,620 CF**

b. PEAK DISCHARGE 100-YR

$Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

$\Rightarrow (1.84 \cdot 0.00) + (2.49 \cdot 4.36) + (3.17 \cdot 4.96) + (4.49 \cdot 2.50) =$ **37.8 CFS**

B. **DEVELOPED CONDITION 100 YEAR STORM**

1. **ONSITE (WEST) DRAIN BASIN**

a. VOLUME 100-YR, 6-HR

$WT_E = (E_A \cdot A_A + E_B \cdot A_B + E_C \cdot A_C + E_D \cdot A_D)/A_T$

$\Rightarrow (0.67 \cdot 0.00) + (0.86 \cdot 4.50) + (1.09 \cdot 1.86) + (2.58 \cdot 5.88)/12.23 =$ **1.72 IN**

$V_{100,6\ HR} = (E_W/12) \cdot A_T \Rightarrow (1.72/12) \cdot 12.23 =$ **1.7536 AC-FT =** **76,390 CF**

b. STORMWATER QUALITY VOLUME (FIRST FLUSH) GENERATED

$V_{SWQV} = ((P_{SWQV}/12) \cdot A_D$

$\Rightarrow ((0.42)/12) \cdot (1.73) =$ **0.0876 AC-FT =** **3,820 CF**

c. PEAK DISCHARGE 100-YR

$Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

$\Rightarrow (1.84 \cdot 0.00) + (2.49 \cdot 4.50) + (3.17 \cdot 1.86) + (4.49 \cdot 5.88) =$ **43.5 CFS**

2. **WEST SUB-BASINS PEAK DISCHARGE RATES, INLET & STORM PIPE SIZING**

a. PEAK DISCHARGE RATE: $Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

b. PIPE CAPACITY CALCULATED USING FLOWMASTER V6.0 - MANNING'S EQUATION FOR GRAVITY FLOW IN PIPES

c. "24"X24" AND "*"SINGLE / DOUBLE "C" INLET CAPACITY CALCULATED USING EJ IRONWORK ORIFICE FLOW CALCULATOR

SUB-BASIN	PEAK DISCHARGE (100 YR)	INLET CAP	PIPE CAPACITY			
	Q_{100} (CFS)	(CFS)	SIZE	MIN. SLOPE	Q_{CAP} (CFS)	
WEST-1	13.6	14**	24"	1.00%	14.1	
WEST-2	7.4	8*	18"	0.85%	27.9	
WEST-3	22.5	28**	24"	3.00%	52.4	
WEST (COMBINED)	43.5	N/A	24"	3.00%	52.4	

3. **ONSITE (EAST) DRAIN BASIN**

a. VOLUME 100-YR, 6-HR

$WT_E = (E_A \cdot A_A + E_B \cdot A_B + E_C \cdot A_C + E_D \cdot A_D)/A_T$

$\Rightarrow (0.67 \cdot 0.00) + (0.86 \cdot 5.70) + (1.09 \cdot 3.34) + (2.58 \cdot 2.79)/11.82 =$ **1.33 IN**

$V_{100,6\ HR} = (E_W/12) \cdot A_T \Rightarrow (1.33/12) \cdot 11.82 =$ **1.3097 AC-FT =** **57,060 CF**

b. STORMWATER QUALITY VOLUME (FIRST FLUSH) GENERATED

$V_{SWQV} = ((P_{SWQV}/12) \cdot A_D$

$\Rightarrow ((0.42)/12) \cdot (2.79) =$ **0.0975 AC-FT =** **4,250 CF**

c. PEAK DISCHARGE 100-YR

$Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

$\Rightarrow (1.84 \cdot 0.00) + (2.49 \cdot 5.70) + (3.17 \cdot 3.34) + (4.49 \cdot 2.79) =$ **37.3 CFS**

4. **EAST SUB-BASINS PEAK DISCHARGE RATES, INLET & STORM PIPE SIZING**

a. PEAK DISCHARGE RATE: $Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

b. PIPE CAPACITY CALCULATED USING FLOWMASTER V6.0 - MANNING'S EQUATION FOR GRAVITY FLOW IN PIPES

c. "24"X24" AND "*"SINGLE / DOUBLE "C" INLET CAPACITY CALCULATED USING EJ IRONWORK ORIFICE FLOW CALCULATOR

SUB-BASIN	PEAK DISCHARGE (100 YR)	INLET CAP	PIPE CAPACITY			
	Q_{100} (CFS)	(CFS)	SIZE	MIN. SLOPE	Q_{CAP} (CFS)	
EAST-1	5.8	8*	18"	1.10%	14.3	
EAST-2	6.1	8*	18"	1.50%	17.3	
EAST-3	25.6	28**	24"	2.00%	42.8	
EAST (COMBINED)	37.3	N/A	24"	2.00%	42.8	

C. **COMPARISON 100 YEAR STORM**

1. **ONSITE (WEST) BASIN GENERATED**

a. VOLUME 100-YR, 6-HR: $\Delta V_{PROJECT\ SITE}$ = 76390 - 75500 = **890 CF** (INCREASE)

b. PEAK DISCHARGE 100-YR: ΔQ_{100} = 43.5 - 43.9 = **-0.4 CFS** (DECREASE)

2. **ONSITE (EAST) BASIN GENERATED**

a. VOLUME 100-YR, 6-HR: $\Delta V_{PROJECT\ SITE}$ = 57050 - 56620 = **430 CF** (INCREASE)

b. PEAK DISCHARGE 100-YR: ΔQ_{100} = 37.3 - 37.8 = **-0.5 CFS** (DECREASE)

3. **OVERALL SITE STORMWATER DISCHARGE**

$V_{OVERALL\ SITE\ DEVELOPED\ GENERATED}$ = 76390 + 57050 =	**133,440**	CF
$V_{OVERALL\ SITE\ EXISTING\ GENERATED}$ = 75500 + 56620 =	**132,120**	CF
$V_{OVERALL\ SITE\ STORM\ WATER\ QUALITY\ VOLUME\ RETAINED}$ =	**-4,300**	CF
$V_{OVERALL\ SITE\ DISCHARGE}$ = 133440 - 132120 - 4300 =	**-2980.0**	CF (DECREASE)

⚠ 4. **STORM WATER QUALITY (FIRST FLUSH)**

$V_{OVERALL\ SWQV\ GENERATED}$ = 8,070 CF > $V_{SITE\ SWQV\ RETAINED}$ = 4300 CF, **3,770 CF RELEASED FROM SITE**

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 "HMCG 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 "HMCG 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)

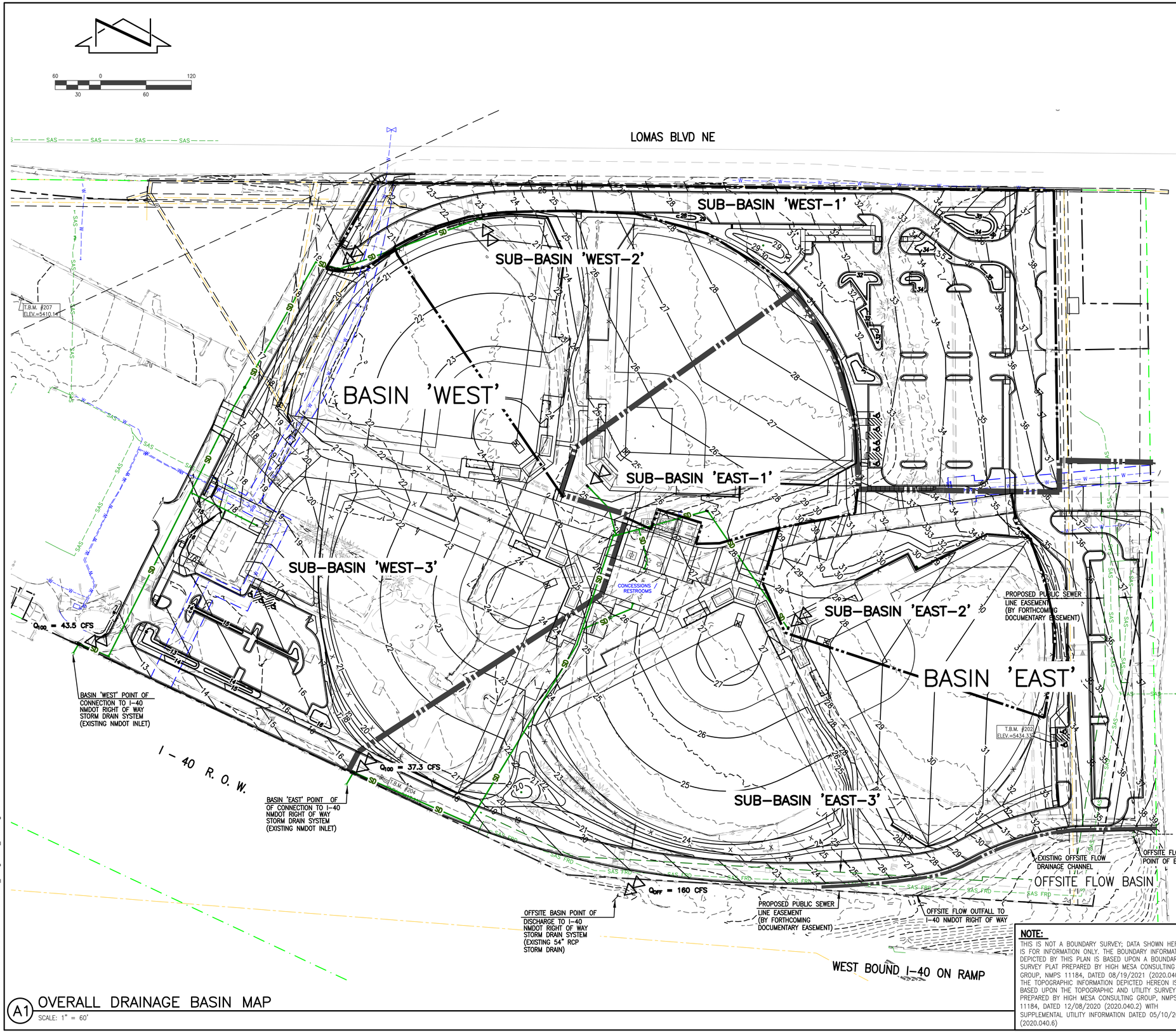
TEMPORARY BENCHMARK #207 (T.B.M.)

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 "HMCG CONTROL NMPS 11184", SET IN DIRT NEAR THE WEST SIDE OF THE PROJECT SITE, NOT SHOWN.
ELEVATION = 5390.22 FEET (NAVD 1988)

TEMP



A1 OVERALL DRAINAGE BASIN MAP
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 "HMCG 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)

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

A #5 REBAR W/CAP STAMPED "HMCG 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.
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 THIS SHEET.
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 THIS SHEET.
ELEVATION = 5410.14 FEET (NAVD 1988)

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

A #5 REBAR W/CAP STAMPED "HMCG 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)

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 STATUES, NEW MEXICO EXCAVATION LAWS (NMB11), 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

NOTE:
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HIGH MESA Consulting Group
6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com

MRWM LANDSCAPE ARCHITECTS
mrwmla.com 505 268 2266

AS-BUILT INFORMATION
CONTRACTOR
WORK INSPECTED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

BENCH MARKS
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)

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS NEW MEXICO 13679 REGISTERED PROFESSIONAL ENGINEER
11/23/21

REVISIONS

NO.	DATE	REMARKS	BY	DATE
1	11/2021	NEW ADDED SHEET TO SET	J.D.S.	08/31/21

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

CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1
OVERALL DRAINAGE BASIN MAP

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	C101A

LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase_JDS.dwg - C101A-R1 Plot Date: 11/23/21 Plot Time: 16:06

EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

CONSTRUCTION NOTES:

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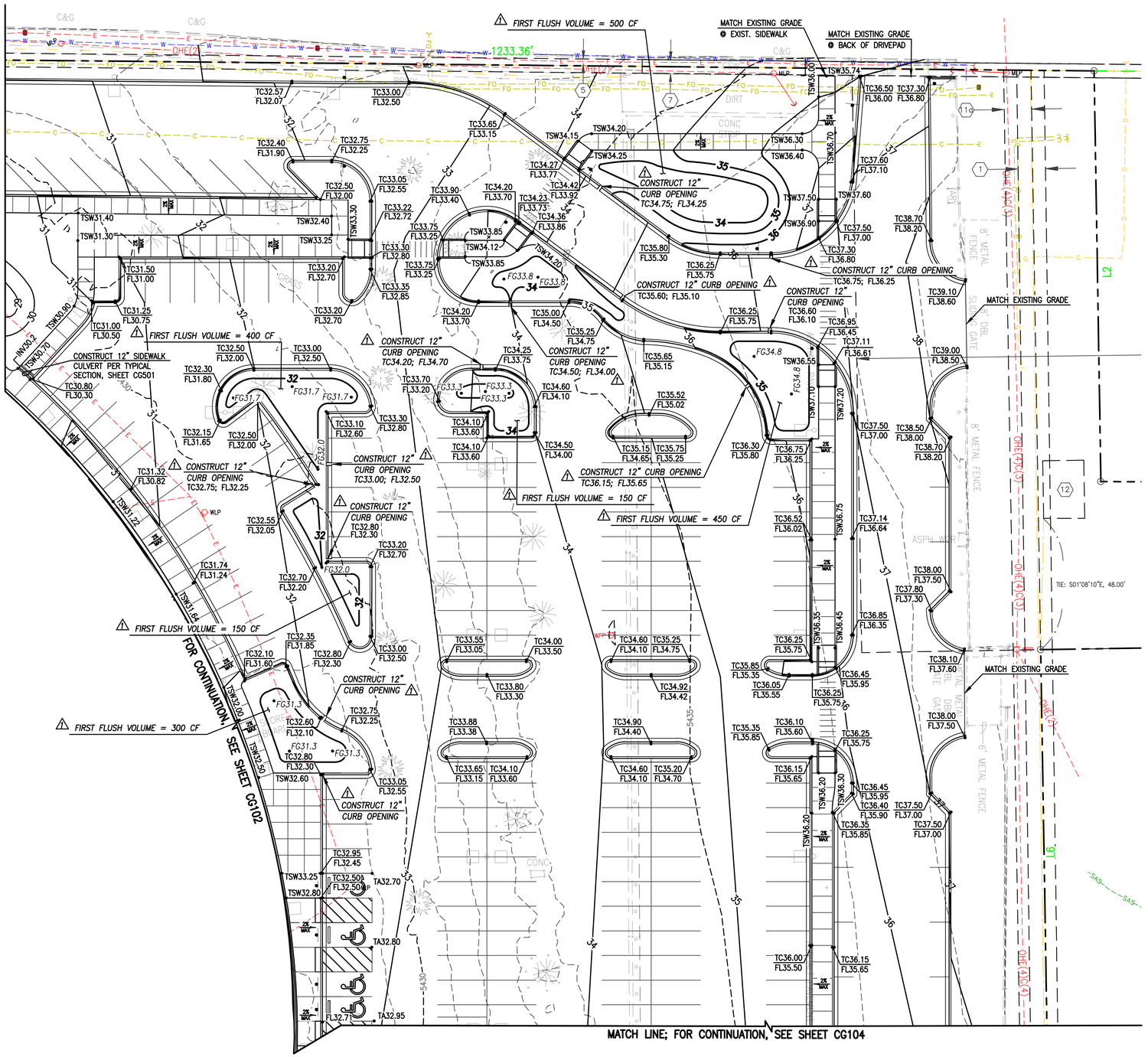

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A1 GRADING PLAN – AREA 1

SCALE: 1" = 20'

AS-BUILT INFORMATION
CONTRACTOR — WORK STAKED BY — DATE — INSPECTOR'S ACCEPTANCE BY — DATE — FIELD VERIFICATION BY — DATE — DRAWINGS DETAILED BY — DATE — RECORDED BY — NO.

BENCH MARKS
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)

SURVEY INFORMATION
FIELD NOTES

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

MICRO-FILM INFORMATION

ENGINEER'S SEAL
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	SWQV POND & DRAINAGE REMARKS	BY
1	11/2021		J.D.S.

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

2020.040.3

HIGH MESA Consulting Group
6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
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MRWM
LANDSCAPE ARCHITECTS
mrwmla.com 505 268 2266

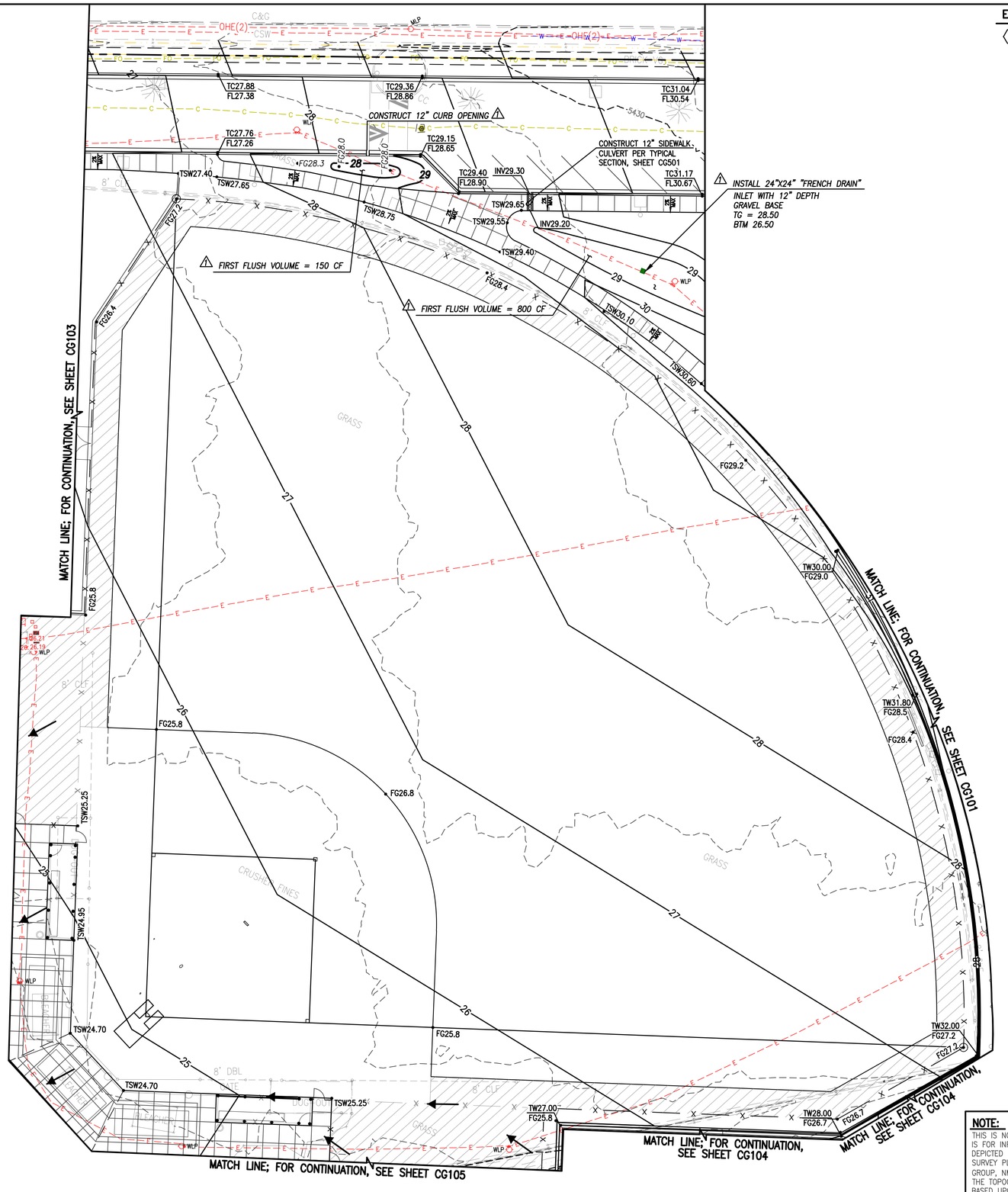
CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

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

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

City Project No. 759692 | Zone Map No. K-20 | Sheet CG101

LOS ALTOS PARK RENOVATION
DATE: 08/31/21
PROJECT# 759692



A1 GRADING PLAN – AREA 2
SCALE: 1" = 20'

EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C–101

CONSTRUCTION NOTES:

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20 0 40
10 20

NOTE:
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SURVEY INFORMATION
FIELD NOTES

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

BENCH MARKS
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)

AS–BUILT INFORMATION
CONTRACTOR
WORK STARTED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS DESIGNED BY — DATE
MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

ENGINEER'S SEAL
J. GRAEME MEANS · NEW MEXICO · 13676 · REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	REMARKS	BY
1	11/2021	SWQV, POND & DRAINAGE	J.D.S.

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

2020.040.3

HIGH MESA Consulting Group
6010–B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com

MRWM LANDSCAPE ARCHITECTS
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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

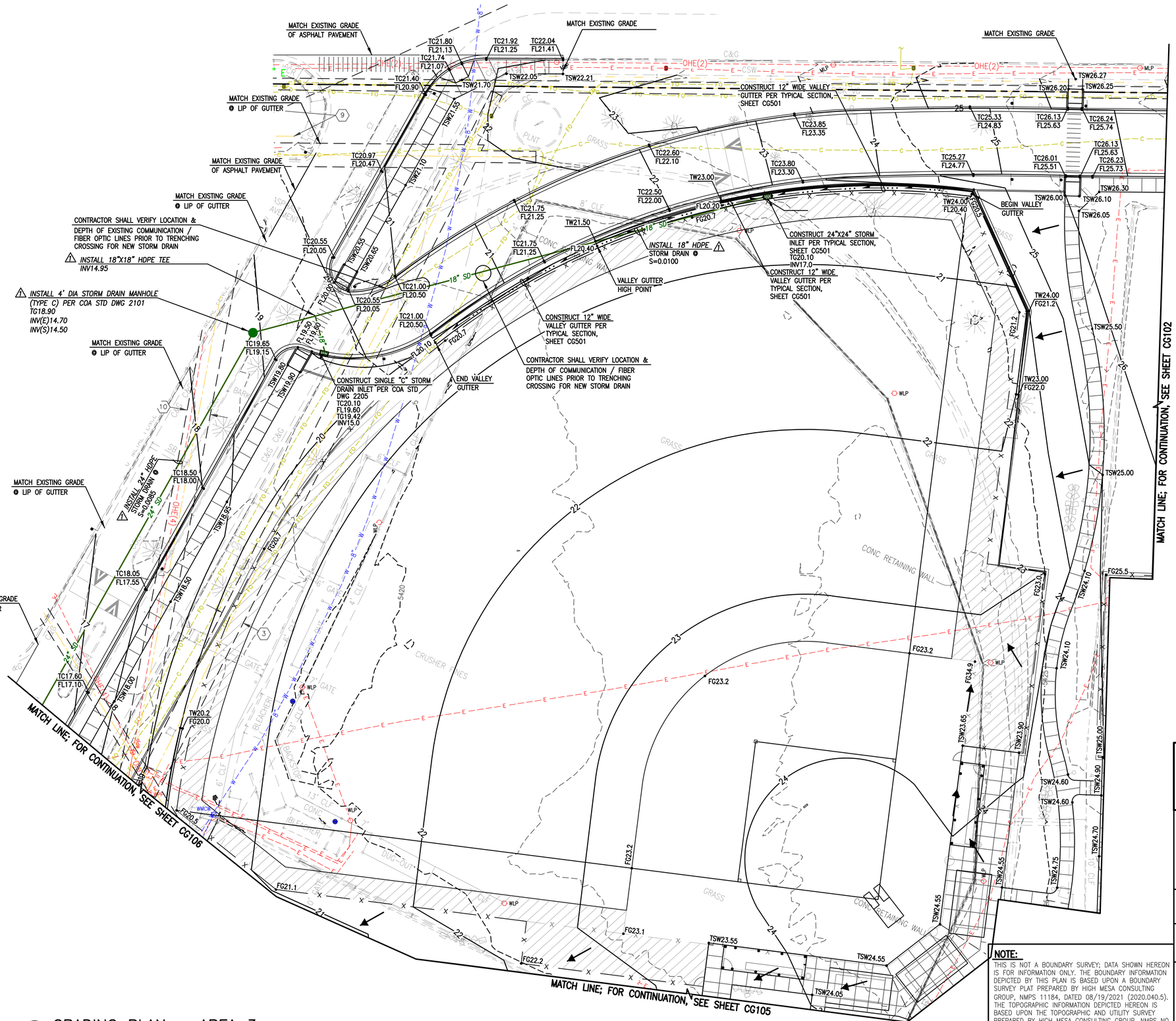
LOS ALTOS PARK RENOVATION – PHASE 1
GRADING PLAN – AREA 2

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	CG102

LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG102 - R1 Plot Date: 11/24/21 Plot Time: 14:07



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 STATUES, NEW MEXICO EXCAVATION LAWS (NMB11), 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.

EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

NOTE:

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A1 GRADING PLAN – AREA 3

SCALE: 1" = 20'

AS-BUILT INFORMATION
CONTRACTOR
WORK DISPOSED BY
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS DISPOSED BY
DATE

BENCH MARKS
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)

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	REMARKS	BY
1	11/2021	STORM PIPE SIZING	J.D.S.

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

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 3

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 CG103

LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG103-R1 Plot Date: 11/29/21 Plot Time: 13:43

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.
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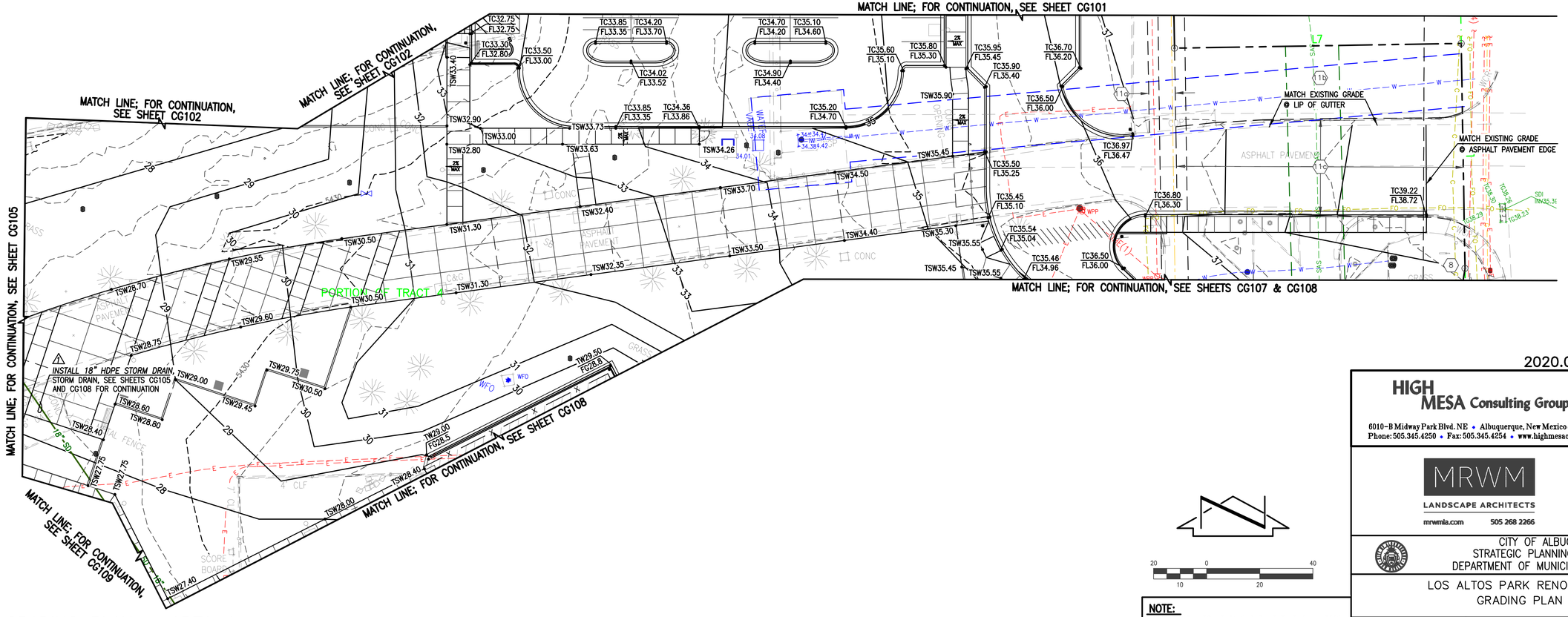

A1 GRADING PLAN – AREA 4
SCALE: 1" = 20'

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AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
AS-BUILT VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
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ELEVATION = 5381.93 FEET (NAVD 1988)

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	STORM PIPE SIZING REMARKS	BY
1	11/2021		J.D.S.

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

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	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet
759692	K-20	CG104

LOS ALTOS PARK RENOVATION
DATE: 08/31/21
PROJECT# 759692

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG104-R1 Plot Date: 11/24/21 Plot Time: 15:06

EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

CONSTRUCTION NOTES:

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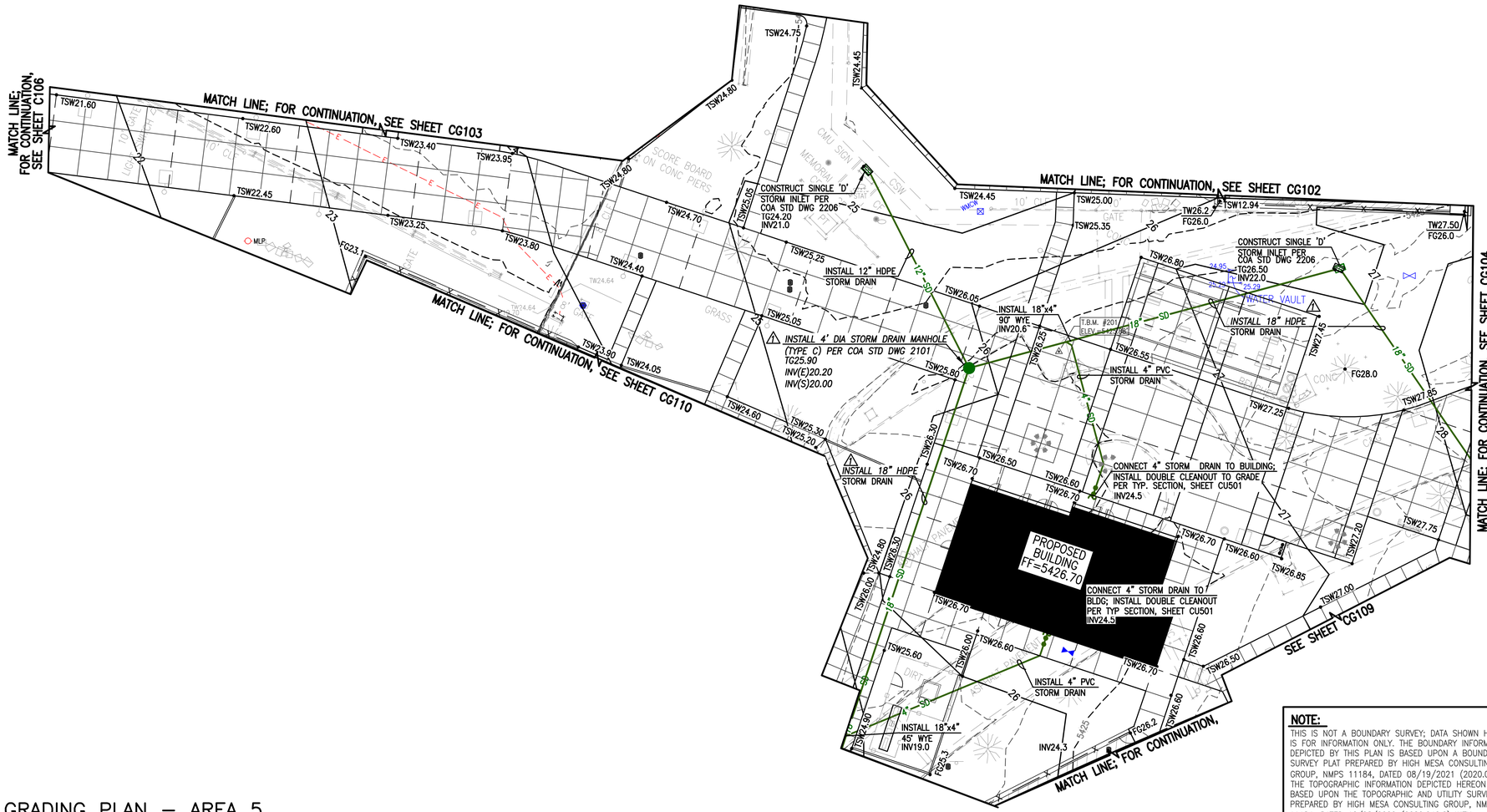

A1 GRADING PLAN – AREA 5
SCALE: 1" = 20'

NOTE:

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SURVEY INFORMATION
FIELD NOTES

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

BENCH MARKS
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)

AS-BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
AS-BUILT VERIFICATION BY	DATE
DRAWINGS DRAFTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

ENGINEER'S SEAL
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

20 0 40
10 20

2020.040.3

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MRWM
LANDSCAPE ARCHITECTS
mrwmla.com 505 268 2266

REVISIONS

NO.	DATE	REMARKS	BY
1	11/2021	STORM PIPE SIZING	J.D.S.

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

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. 759692 | Zone Map No. K-20 | Sheet CG105

LOS ALTOS PARK RENOVATION
DATE: 08/31/21
PROJECT# 759692

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG105-R1 Plot Date: 11/24/21 Plot Time: 15:22

CONSTRUCTION NOTES:

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EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

A3 GRADING PLAN – AREA 6
SCALE: 1" = 20'

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SURVEY INFORMATION
FIELD NOTES

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

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
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DRAWINGS DESIGNED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
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BENCH MARKS
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J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	REMARKS	BY
1	11/2021	SWQV POND, SD PIPE SIZING, REFUSE ENCL	J.D.S.

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

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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1
GRADING PLAN – AREA 6

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 CG106

PROJECT# 759692
DATE: 08/31/21
LOS ALTOS PARK RENOVATION

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG106 - R1 Plot Date: 11/24/21 Plot Time: 15:31

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 STATUES, NEW MEXICO EXCAVATION LAWS (NMSA 11), 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.
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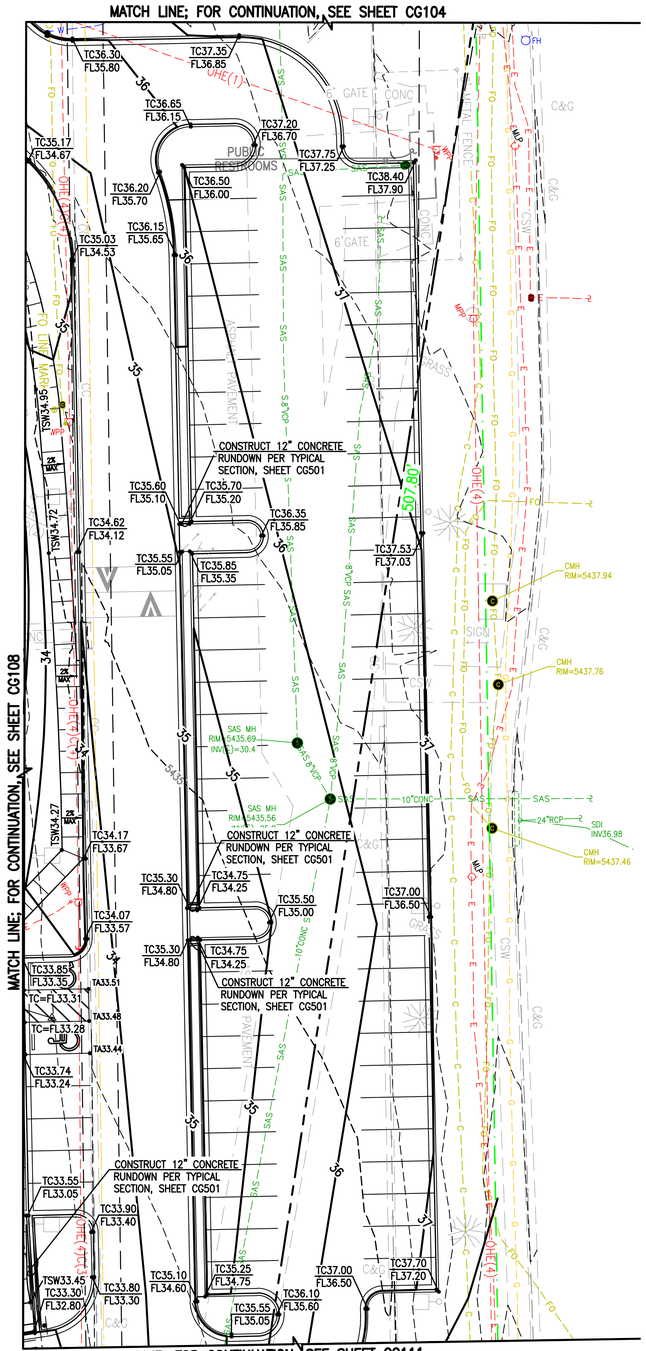
EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101



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

NOTE:
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AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
CITY VERIFICATION BY — DATE
DRAWINGS DISPOSED BY — DATE

BENCH MARKS
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)

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
08/31/21

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

DESIGNED BY: J.D.S.
DRAWN BY: J.Y.R.
CHECKED BY: G.M.

2020.040.3

HIGH MESA Consulting Group
6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com

MRWM
LANDSCAPE ARCHITECTS
mrwmla.com 505 268 2266

CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

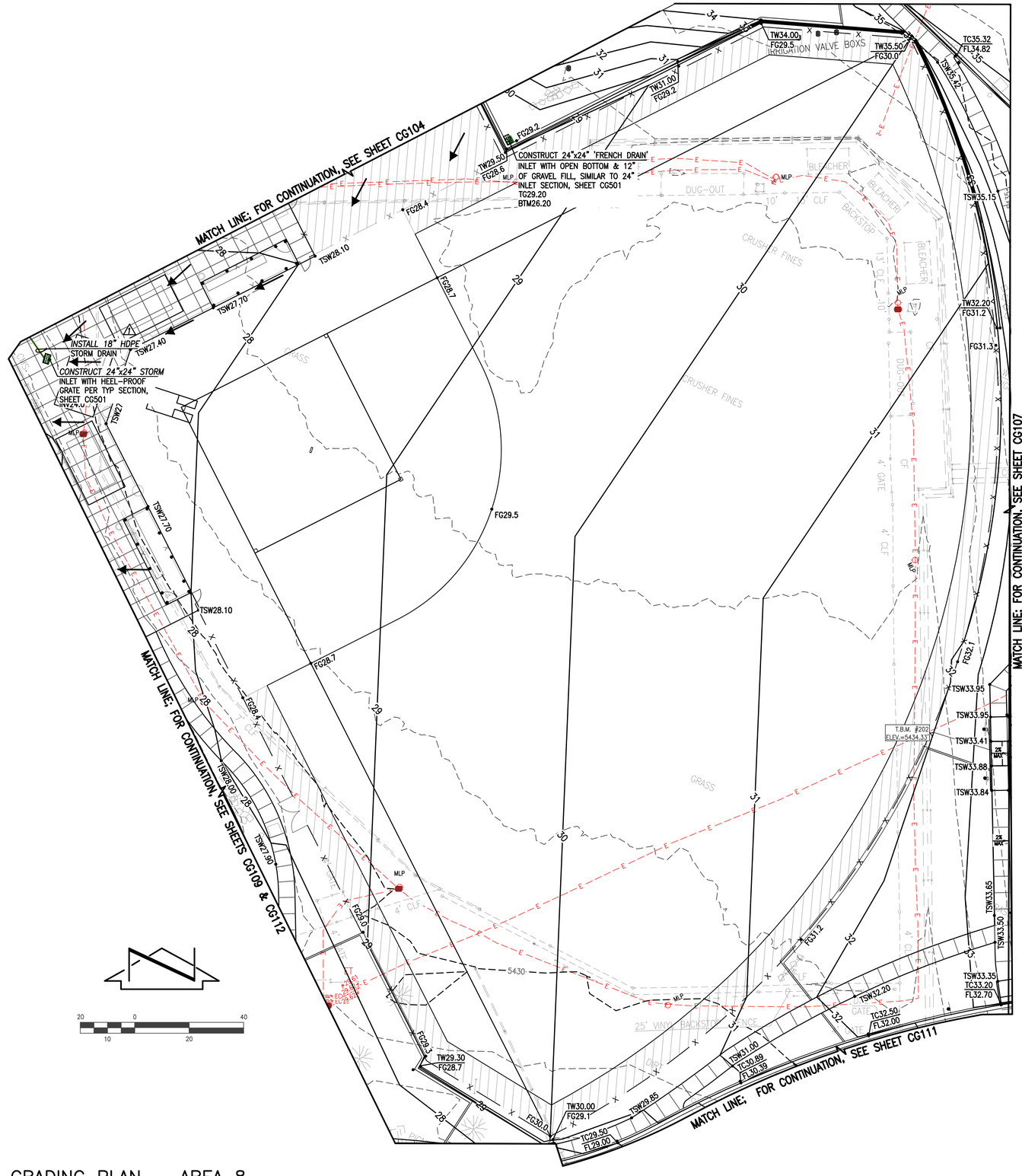
LOS ALTOS PARK RENOVATION – PHASE 1
GRADING PLAN – AREA 7

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

City Project No.	Zone Map No.	Sheet
759692	K-20	CG107

LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\2020403_DesignBase.dwg - CG107 Plot Date: 9/14/21 Plot Time: 14:46



20 0 40
10 20

A1 GRADING PLAN – AREA 8
SCALE: 1" = 20'

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.
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EASEMENT KEYED NOTES:

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AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS DOTTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
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)

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	STORM DRAIN SIZING REMARKS	BY	DATE
1	11/2021		J.D.S.	08/31/21

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

2020.040.3

HIGH MESA Consulting Group
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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

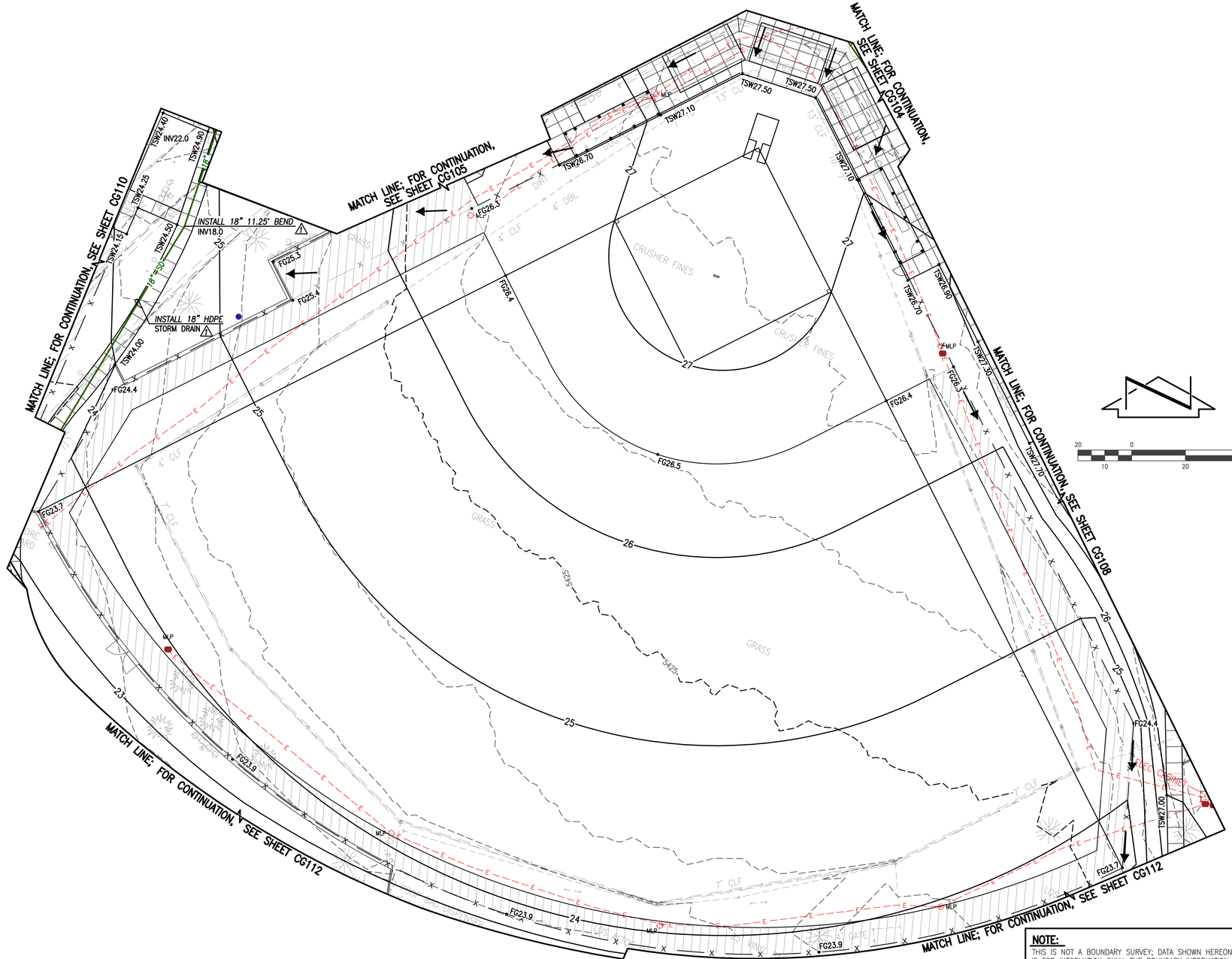
LOS ALTOS PARK RENOVATION – PHASE 1
GRADING PLAN – AREA 8

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	CG108

LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG108-R1 Plot Date: 11/24/21 Plot Time: 15:36



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EASEMENT KEYED NOTES:

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A1 GRADING PLAN – AREA 9
SCALE: 1" = 20'

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AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS DESIGNED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
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ELEVATION = 5381.93 FEET (NAVD 1988)

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS — NEW MEXICO — 13676 — REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	STORM PIPE SIZING REMARKS	BY
1	11/2021		J.D.S.

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

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 9

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 CG109

LOS ALTOS PARK RENOVATION
DATE: 08/31/21
PROJECT# 759692

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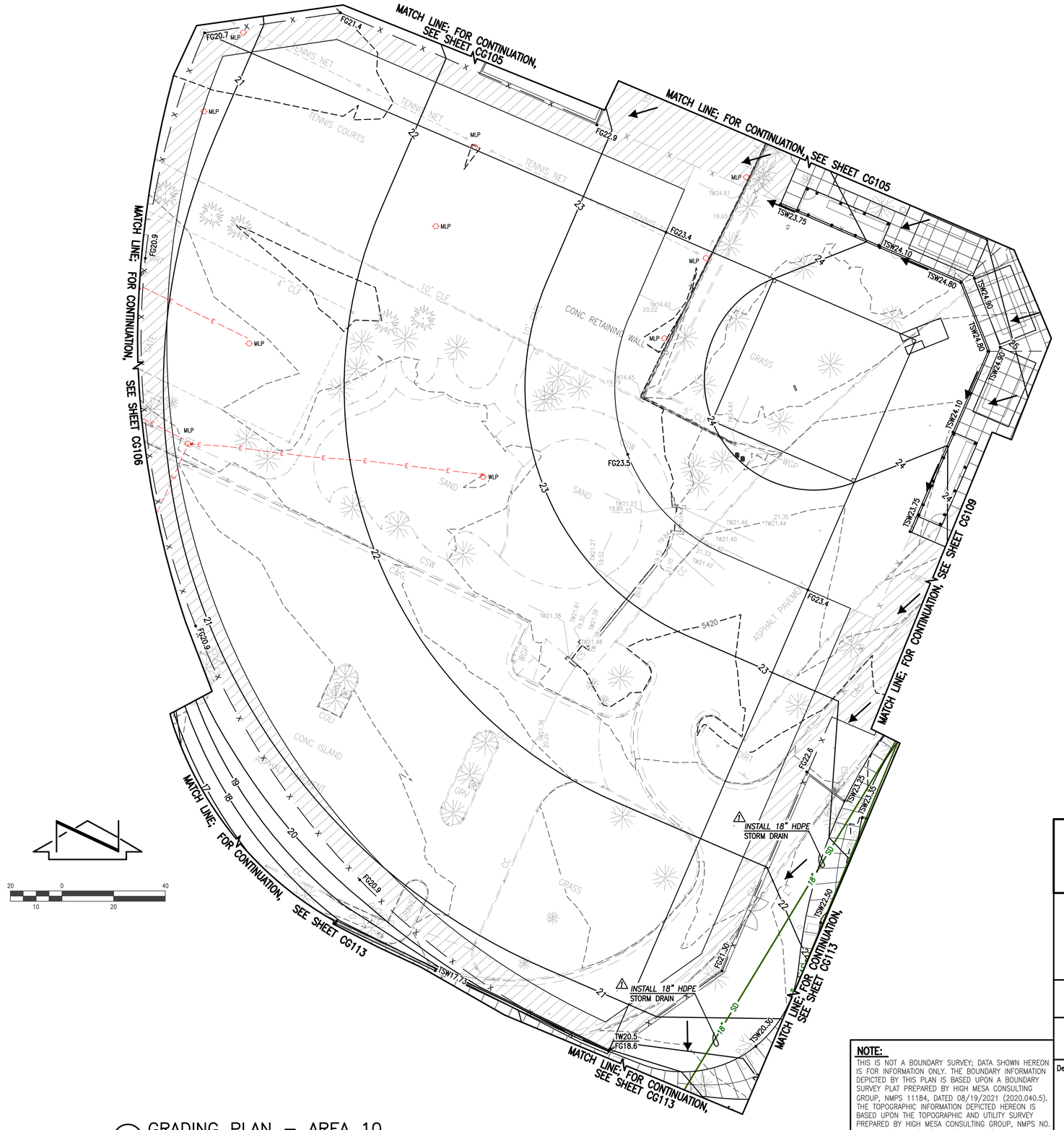

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EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

A2 GRADING PLAN – AREA 10

SCALE: 1" = 20'

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SURVEY INFORMATION
FIELD NOTES

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

BENCH MARKS

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ELEVATION = 5381.93 FEET (NAVD 1988)

AS-BUILT INFORMATION

CONTRACTOR
WORK OVERSEEN BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS DIGITIZED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

ENGINEER'S SEAL
J. GRAEME MEANS — NEW MEXICO — 13676 — REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	STORM PIPE SIZING REMARKS	BY
1	11/2021		J.D.S.

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

2020.040.3

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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

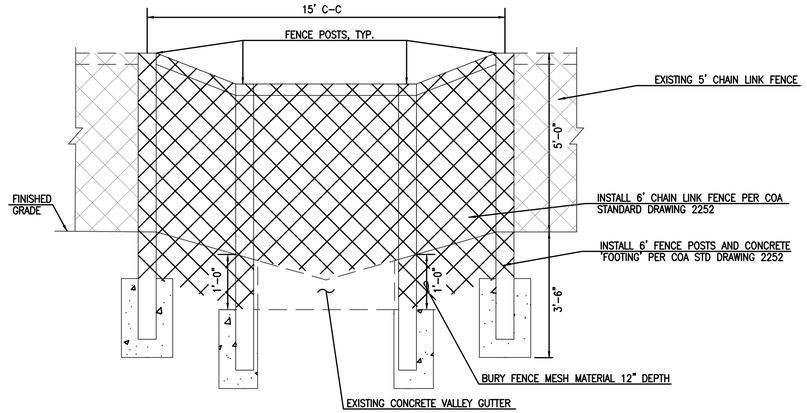
LOS ALTOS PARK RENOVATION – PHASE 1
GRADING PLAN – AREA 10

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

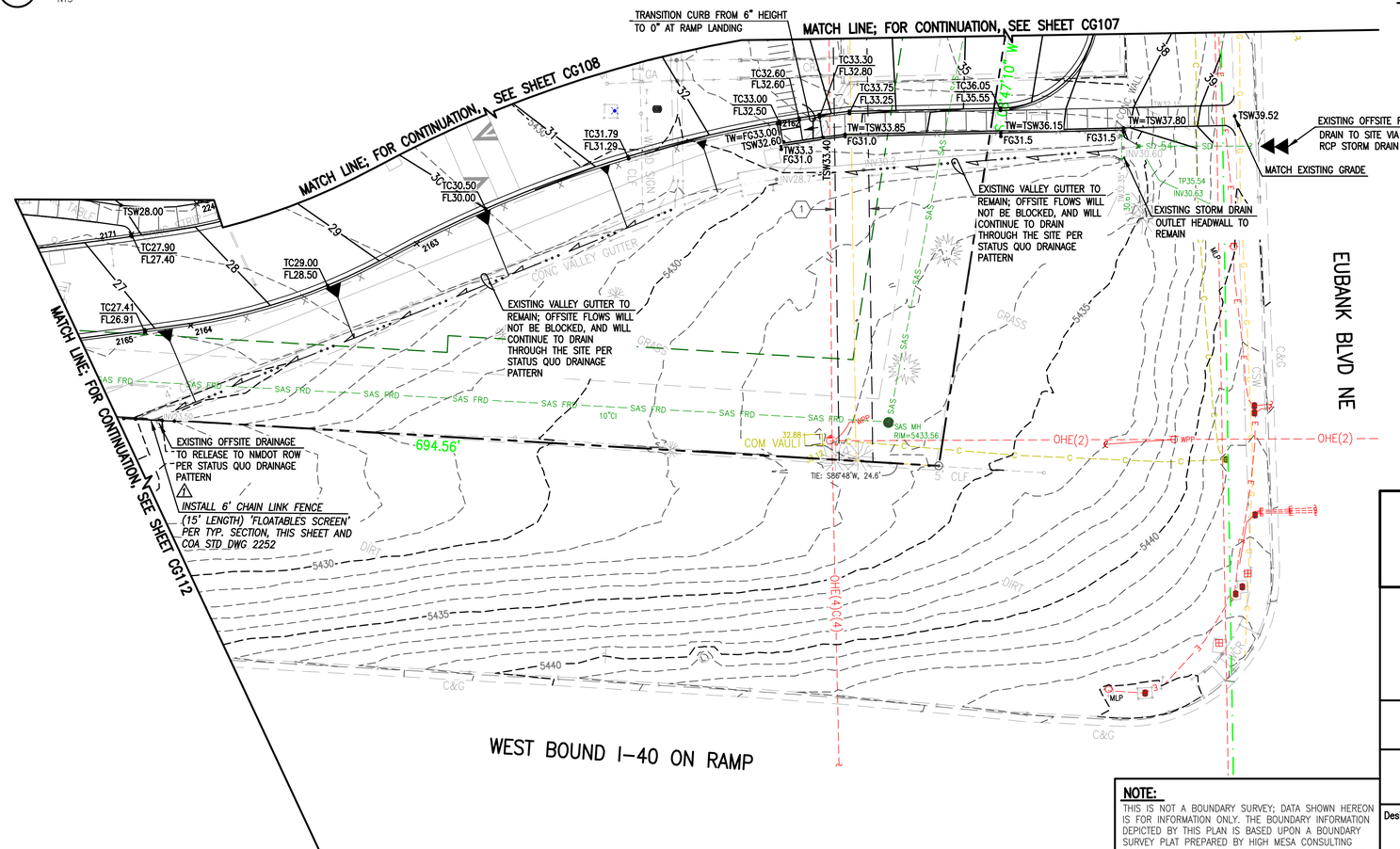
LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG110 - R1 Plot Date: 11/24/21 Plot Time: 15:42



1 A1 CHAIN LINK FENCE 'FLOATABLES SCREEN'

NTS



2 A2 GRADING PLAN – AREA 11

SCALE: 1" = 20'

CONSTRUCTION NOTES:

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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 STATUES, NEW MEXICO EXCAVATION LAWS (NMB11), 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.

EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

NOTE:

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AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS DOWNED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
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)

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS — NEW MEXICO — 13676 — REGISTERED PROFESSIONAL ENGINEER
12/03/21
08/31/21

REVISIONS

NO.	DATE	CHAIN LINK FENCE 'FLOATABLES SCREEN'	BY
1	12/2021	REMARKS	J.D.S.

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

2020.040.3

HIGH MESA Consulting Group
6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
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MRWM LANDSCAPE ARCHITECTS
mrwmla.com 505 268 2266

CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

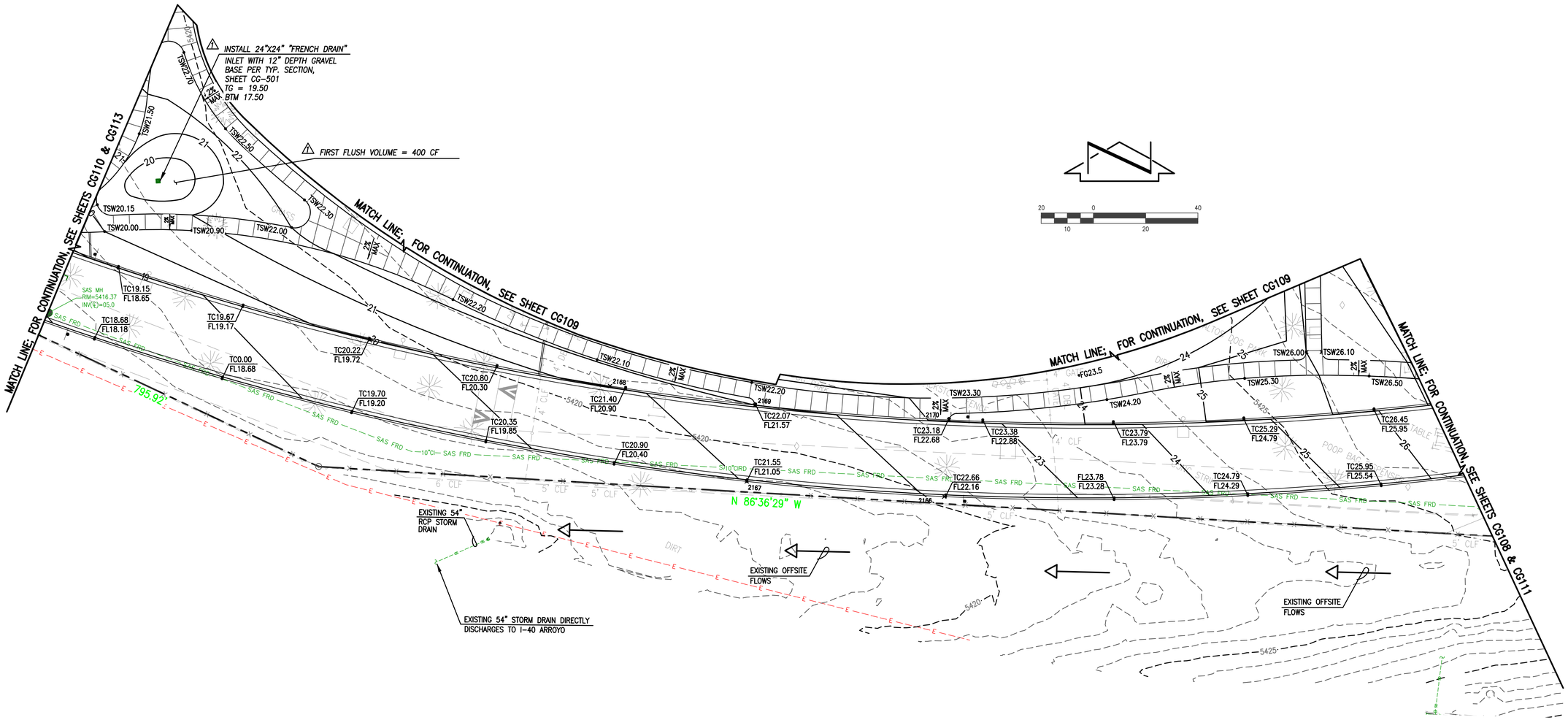
LOS ALTOS PARK RENOVATION – PHASE 1
GRADING PLAN – AREA 11

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

City Project No.	Zone Map No.	Sheet
759692	K-20	CG111

LOS ALTOS PARK RENOVATION
DATE: 08/31/21
PROJECT# 759692

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG111 - R1 Plot Date: 12/3/21 Plot Time: 09:06



B1 GRADING PLAN – AREA 12

SCALE: 1" = 20'

2020.040.3

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.
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AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK OVERSEEN BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS DOWNSIZED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
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)

SURVEY INFORMATION
FIELD NOTES

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

ENGINEER'S SEAL
J. GRAEME MEANS — NEW MEXICO — 13676 — REGISTERED PROFESSIONAL ENGINEER
12/03/21
08/31/21

REVISIONS

NO.	DATE	BY
1	11/2021	SWQV POND & DRAINAGE REMARKS	J.D.S.

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

HIGH MESA Consulting Group
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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

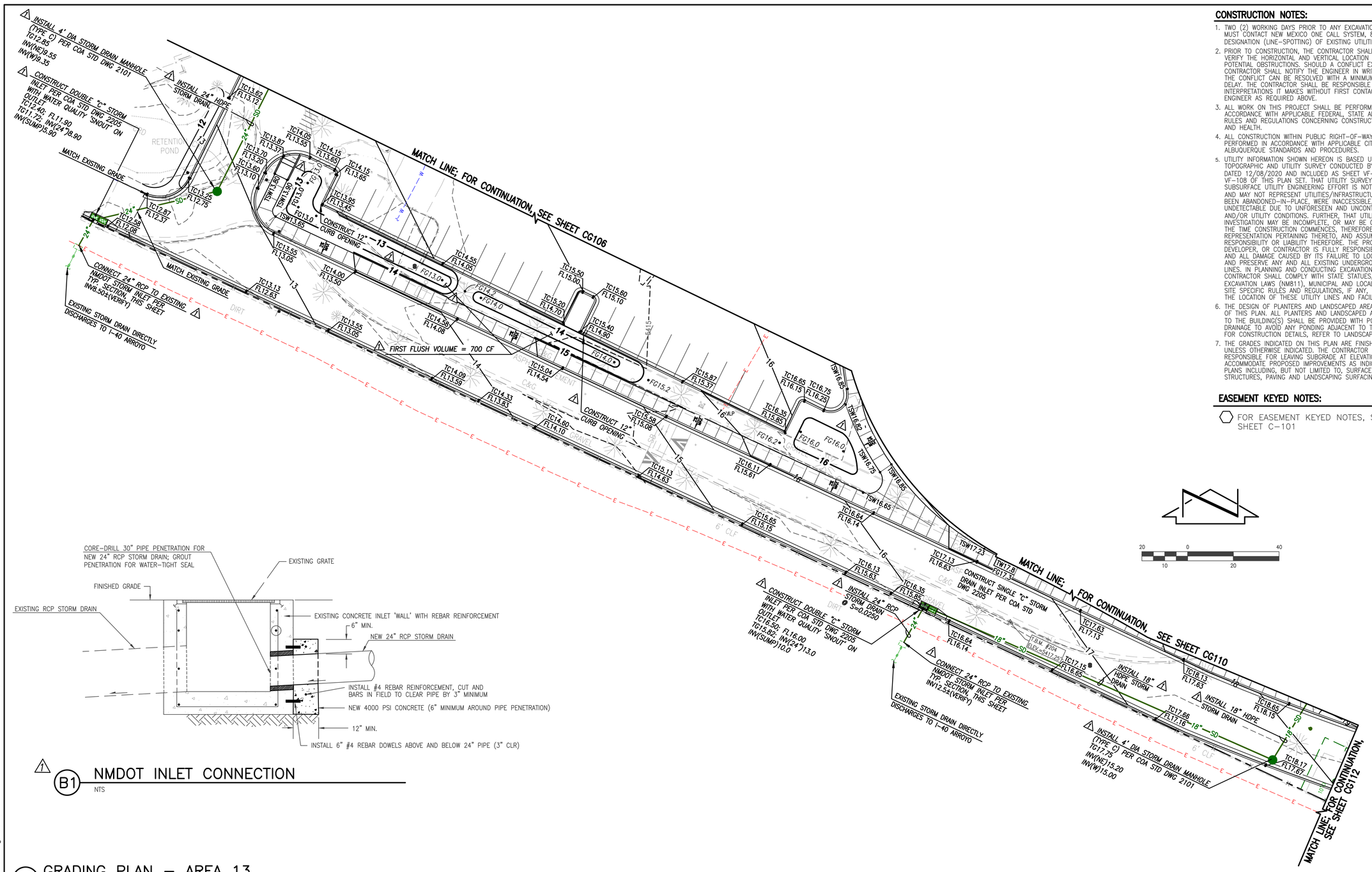
LOS ALTOS PARK RENOVATION – PHASE 1
GRADING PLAN – AREA 12

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

City Project No.	Zone Map No.	Sheet
759692	K-20	CG112

LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG112 - R1 Plot Date: 12/3/21 Plot Time: 09:08



1 B1 NMDOT INLET CONNECTION
NTS

A1 GRADING PLAN – AREA 13
SCALE: 1" = 20'

CONSTRUCTION NOTES:

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EASEMENT KEYED NOTES:

⬡ FOR EASEMENT KEYED NOTES, SEE SHEET C-101

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS DOCKED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ARCHITECTURAL SEAL
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

REVISIONS

NO.	DATE	REMARKS	J.D.S. BY
1	11/2021	SWQV POND & DRAINAGE, SD PIPE SIZING	

DESIGNED BY: J.D.S. — DATE 03/19/21
DRAWN BY: J.Y.R. — DATE 03/19/21
CHECKED BY: G.M. — DATE 03/19/21

DATE: 8/31/21
PROJECT# 759692
LOS ALTOS PARK RENOVATION

2020.040.3

HIGH MESA Consulting Group
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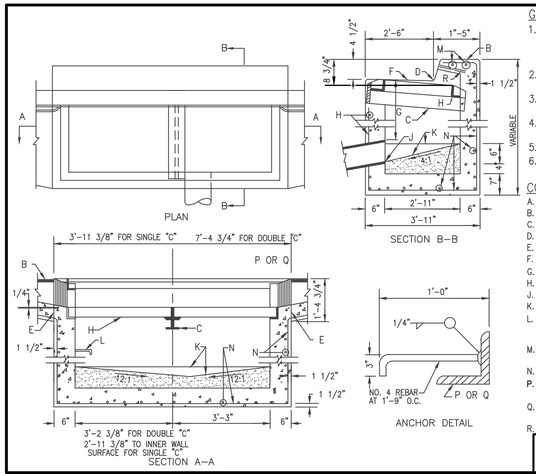
CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

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

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

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

File Name: P:\data\2020\2020.040.3\ENG\20200403_DesignBase.dwg - CG113 - R1 Plot Date: 11/24/21 Plot Time: 16:15



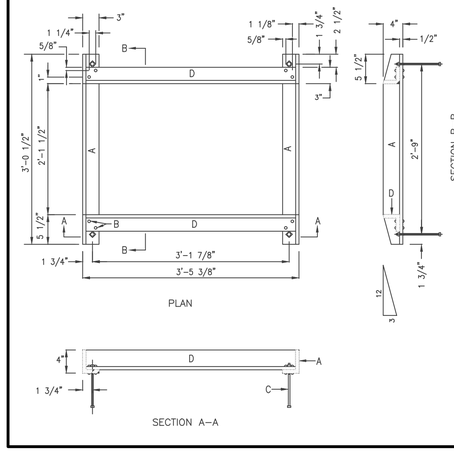
GENERAL NOTES:

1. FOR SINGLE GRATE TYPE STORM INLET DELETE CENTER SUPPORT AND MOVE ONE END WALL TO FORM NEW SINGLE GRATE INLET.
2. FOR STORM INLET GUTTER TRANSITION, SEE DWG. 2207.
3. OUTLET PIPE SIZE. PER DESIGN REQUIREMENT.
4. FOR FRAME & GRATING, SEE DWGS. 2216 AND 2220
5. FOR ANCHOR SEE DETAIL.
6. FOR CENTER SUPPORT ASSEMBLY. SEE DWG. 2215.

CONSTRUCTION NOTES:

A. GUTTER TRANSITION.
B. TOP OF CURB.
C. CENTER SUPPORT ASSEMBLY.
D. FLOWLINE.
E. CONSTRUCTION JOINT.
F. NORMAL GUTTER LINE.
G. 1'–10" MIN. UNLESS OTHERWISE DIRECTED.
H. FRAME AND GRATE.
J. INVERT OF OUTLET PIPE.
K. CONCRETE FILL. MINIMUM SLOPES AS SHOWN.
L. FOR STORM INLET DEPTHS GREATER THAN 4' INSTALL STD STEPS. SEE DWG. 2229, DOWNSTREAM FACE.
M. EXTEND NO 4 REBARS 18" INTO CURB ON EACH SIDE OF STORM INLET.
N. NO. 4 BARS AT 6" O.C.
P. 3 1/2" X 3 1/2" X 1/2" X 4'–0" FOR SINGLE GRATE TYPE "C" STORM INLET.
Q. 3 1/2" X 3 1/2" X 1/2" X 7'–6" FOR DOUBLE GRATE TYPE "C" STORM INLET.
R. ANCHOR.

DRAINAGE
STORM INLET SINGLE "C"
DWG. 2205



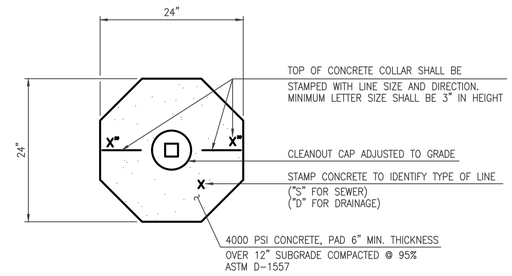
GENERAL NOTES:

1. ALL EXPOSED METAL PARTS SHALL BE PAINTED PRIOR TO ASSEMBLY. WELDING, MACHINING AND DRILLING SHALL BE DONE PRIOR TO PAINTING. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. ALL PARTS SHALL BE OF STRUCTURAL STEEL, GRADE 36.
3. AFTER CLEANING SURFACE OF SCALE, RUST, ETC., GRATING AND FRAME SHALL BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
4. FRAME MAY BE WELDED OR RIVETED.

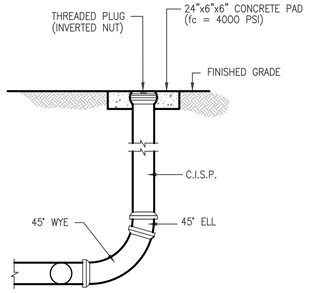
CONSTRUCTION NOTES:

A. 4" X 3" X 1/2" X 3'– 1/2" ∠.
B. 2 – 3/8" RIVETS AT EACH CORNER, SEE GENERAL NOTE NO. 5.
C. 4 – 1/2" X 8" BOLTS WITH SQUARE HEAD & NUT AT EACH CORNER FOR ANCHORING FRAME INTO CONCRETE WALL.
D. 3 – 1/2" X 3" X 3/8" X 3'– 4 – 3/8" ∠.

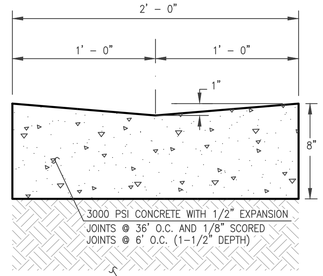
DRAINAGE
STORM INLET FRAME
DWG. 2216



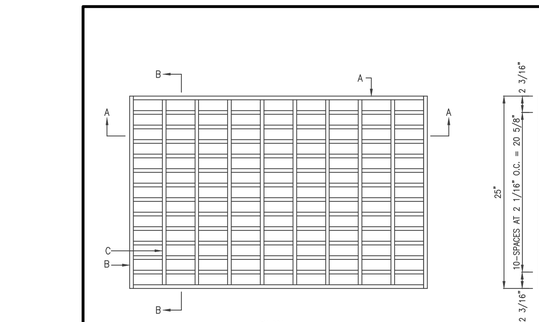
E5 TYPICAL CLEANOUT COLLAR DETAIL
SCALE: 1" = 1"



D5 TYPICAL SINGLE CLEANOUT SECTION
NOT TO SCALE



C5 TYPICAL VALLEY GUTTER SECTION
SCALE: 1" = 0' – 6"



GENERAL NOTES:

1. DETAILS FOR PLACING CATCH BASINS, STANDARD CURB AND GUTTER.

CONSTRUCTION NOTES:

A. STANDARD CURB AND GUTTER
B. STRAIGHT GRADE.
C. EXPANSION JOINT.
D. TOP OF CURB.
E. FLOWLINE.
F. FOR FRAME & GRATE SEE DWGS. 2216 & 2220.
G. DIRECTION OF FLOW.
H. POINT OF MEASUREMENT FOR TOP OF GRATE ELEVATION.
J. PROVIDE 5 FEET TRANSITION EACH SIDE OF CATCH BASIN, WHEN INSTALLING AT SAG POINT IN INSTALLATIONS OTHER THAN AT CURB RETURN.

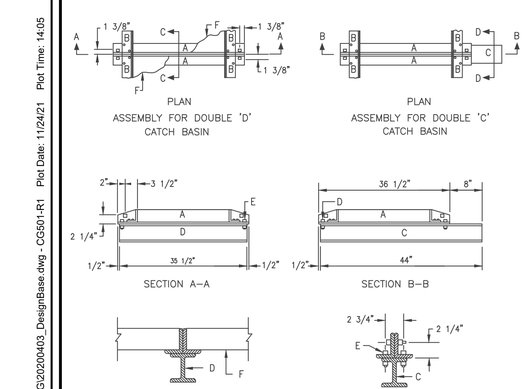
GENERAL NOTES:

1. ALL BARS SHALL BE STRUCTURAL GRADE STEEL, GRADE A36.
2. THE GRATE SHALL BE WELDED WITH 1/8" FILLET WELD AROUND BOTH SIDES OF CROSS BARS. 1/4" FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS OF ALUMINUM PAINT (AASHTO M 69).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO ONE SIDE. OTHER SIDE SHALL HAVE 1/2" MAX. OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP 1/2" SPACE OR LESS.

CONSTRUCTION NOTES:

A. BEARING BARS. (13) 1/2" X 3 1/2" X 39".
B. END BARS (2) 1/2" X 3" X 25".
C. CROSS BARS, (7) 1/2" DIA. X 24.

DRAINAGE
STORM INLET
GRATE
DWG. 2220



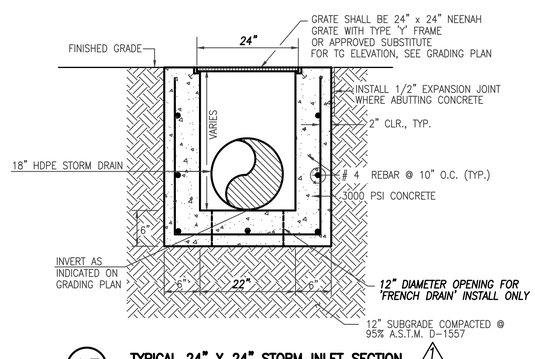
GENERAL NOTES:

1. ALL BOLTS USED IN CENTER SUPPORT ASSEMBLY SHALL BE 1/2".
2. FRAME MAY BE RIVETED OR WELDED.
3. BOLTS (NOT RIVETS OR WELDS) SHALL BE USED TO JOIN TWO OR MORE FRAMES TOGETHER AND TO THE WF BEAM.
4. AFTER CLEANING SURFACE OF SCALE, RUST, ETC., GRATING, FRAME AND CENTER SUPPORT SHALL BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMNUM PAINT (AASHTO M 69).
5. FOR SINGLE TYPE CATCH BASIN, MOVE ONE END WALL TO FROM NEW SINGLE GRATE CATCH BASIN.

CONSTRUCTION NOTES:

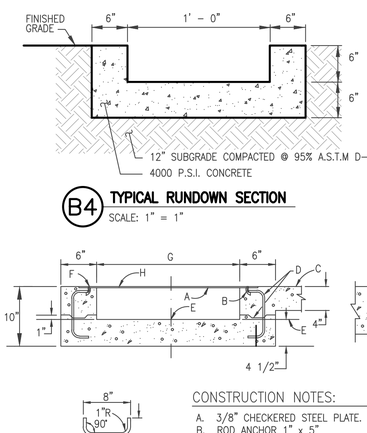
A. 4" X 3" X 1/2" X 36 1/2" ∠.
B. 3 1/2" X 3" X 3/8" X 40 3/8" ∠.
C. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE 'C'.
D. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE 'D'.
E. 1/2" BOLTS, WITH NUTS TO SECURE ANGLE TO BEAM.
F. FOR FRAME AND GRATE SEE DWGS. 2216 & 2220.

DRAINAGE
STORM INLET CENTER SUPPORT ASSEMBLY
DWG. 2215

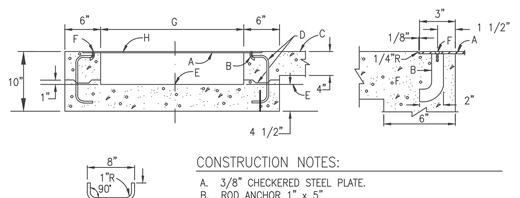


A3 TYPICAL 24" X 24" STORM INLET SECTION ⚠1
SCALE: 1" = 1' – 0"

*NOTE: FOR 'FRENCH DRAIN' INLET (SHEET CG108), CONSTRUCT 12" CONCRETE DIAMETER OPENING IN BOTTOM OF INLET AND INSTALL 12" DEPTH GRAVEL FILL BELOW INLET COMPACTED AT 95% ASTM D–1557 FOR INFILTRATION



B4 TYPICAL RUNDOWN SECTION
SCALE: 1" = 1"



DOWEL DETAIL
SCALE: 1" = 1'

CONSTRUCTION NOTES:

A. 3/8" CHECKERED STEEL PLATE.
B. ROD ANCHOR 1" x 5"
C. SIDEWALK GRADE
D. DOWEL AND JOINT, (OPTIONAL).
E. GUTTER FLOWLINE ELEV.
F. 3/8" x 1" F.H. C'SUNK STAINLESS STEEL MACHINE SCREW.
G. DRAIN WIDTH, 24" MAX. 12" MIN.
H. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS OF ALUMINUM PAINT (AASHTO M 69).

⚠1 **A4 SIDEWALK CULVERT SECTION**
SCALE: 1" = 2"

2020.040.3

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CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
DEPARTMENT OF MUNICIPAL DEVELOPMENT

LOS ALTOS PARK RENOVATION – PHASE 1
DRAINAGE SECTIONS AND DETAILS

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	CG501

REVISIONS			
NO.	DATE	REMARKS	BY
⚠1	11/2021	SIDEWALK CULVERT SECTION; 24" INLET	

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
FIELD NOTES

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

BENCH MARKS
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)

AS–BUILT INFORMATION

	DATE
CONTRACTOR	
WORK STARTED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
CITY VERIFICATION BY	DATE
DRAWINGS DISCUSSED BY	DATE

MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
J. GRAEME MEANS
NEW MEXICO
13676
REGISTERED PROFESSIONAL ENGINEER
11/23/21
08/31/21

LOS ALTOS PARK RENOVATION
PROJECT# 759692
DATE: 08/31/21

File Name: P:\data\2020\2020.040.3\ENG\2020403_DesignBase.dwg - CG501-R1 Plot Date: 11/24/21 Plot Time: 14:05