

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

January 11, 2024

Joshua Lutz, P.E.  
Bohannon Huston Inc.  
7500 Jefferson St. NE Courtyard I  
Albuquerque, NM 87109

**RE: Golden Eagle, 99999 University Blvd. UPC: 101605026829920101**  
**A portion of Tract 18 Artiste, Mesa del Sol**  
**Conceptual Grading and Drainage Plan**  
**Engineer's Stamp Date: 1/10/2024**  
**Hydrology File: S17D001**

Dear Mr. Lutz:

Based upon the information provided in your submittal received 1/11/2024, the Conceptual Grading & Drainage Plan is preliminary approved for Grading Permit and for action by the DHO/DFT for Platting and Site Plan actions.

PO Box 1293

**PRIOR TO BUILDING PERMIT:**

Albuquerque

1. Please submit detailed Grading & Drainage Plan to Hydrology for review and approval.
2. Verify the provided volume for pond 5. It's smaller than the required volume.

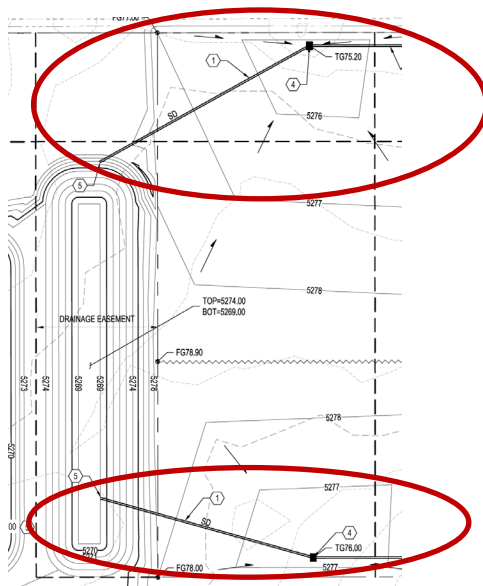
Pond 5	Basin 5	0.9	0.4
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NM 87103

3. Add proposed SD pipe size on sheets C-00-G10-03 to C-00-G10-05.

C-00-G10-03:

www.cabq.gov



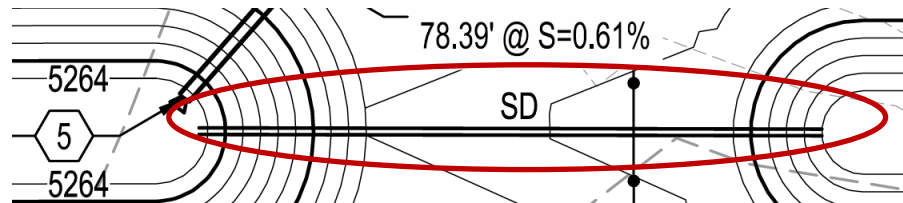
# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director

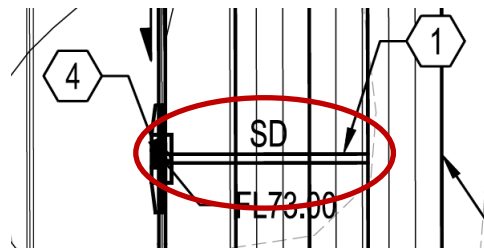


Mayor Timothy M. Keller

C-00-G10-04:



C-00-G10-05:



PO Box 1293

Albuquerque

NM 87103

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Dough Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3695 or [tchen@cabq.gov](mailto:tchen@cabq.gov).

Sincerely,

www.cabq.gov

A handwritten signature in blue ink that reads "Tiequan Chen".

Tiequan Chen P.E.  
Principal Engineer, Hydrology  
Planning Department, Development Review Services



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: Golden Eagle Hydrology File # \_\_\_\_\_

Legal Description: A portion of Tract 18 Artiste. The Golden Eagle tract will be platted in the near future. (See zone atlas map).

City Address, UPC, OR Parcel: Address: 99999 University Blvd. UPC: 101605026829920101

Applicant/Agent: Bohannon Huston Inc. Contact: Josh Lutz, PE  
Address: 7500 Jefferson St. NE Albuquerque, NM 87109 Phone: (505)823-1000  
Email: jlutz@bhinc.com

Applicant/Owner: Maxeon Contact: Don Foldenaur  
Address: 5700 University Blvd SE Suite 200 Phone: +1 419-918-9741  
Email: donald.foldenaur@maxeon.com

(Please note that a DFT SITE is one that needs Site Plan Approval & ADMIN SITE is one that does not need it.)

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

RE-SUBMITTAL:  YES  NO

DEPARTMENT:  TRANSPORTATION  HYDROLOGY/DRAINAGE

Check all that apply under Both the Type of Submittal and the Type of Approval Sought:

### TYPE OF SUBMITTAL:

- ENGINEER/ARCHITECT CERTIFICATION
- PAD CERTIFICATION
- CONCEPTUAL G&D PLAN
- GRADING & DRAINAGE PLAN
- DRAINAGE REPORT
- DRAINAGE MASTER PLAN
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE
- TRAFFIC CIRCULATION LAYOUT FOR DFT APPROVAL
- TRAFFIC IMPACT STUDY (TIS)
- STREET LIGHT LAYOUT
- OTHER (SPECIFY) \_\_\_\_\_

### TYPE OF APPROVAL SOUGHT:

- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY
- CONCEPTUAL TCL DFT APPROVAL
- PRELIMINARY PLAT APPROVAL
- FINAL PLAT APPROVAL
- SITE PLAN FOR BLDG PERMIT DFT 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
- OTHER (SPECIFY) \_\_\_\_\_

DATE SUBMITTED: January 10, 2024

January 10, 2024

Tiequan Chen, P.E.  
Principal Engineer, Hydrology  
Planning Department, Development Review Services

**RE: Golden Eagle, 99999 University Blvd. UPC: 101605026829920101**  
**A portion of Tract 18 Artiste, Mesa del Sol**  
**Conceptual Grading and Drainage Plan Engineer's**  
**Stamp Date: 12/15/2023**  
**Hydrology File: S17D001**

Dear Mr. Chen:

Please see our responses below along with the attached revised grading and drainage plans.

1. Please insert vicinity map and FEMA FIRM map. **This has been added to the overall sheet.**
2. Provide the Benchmark information (location, description and elevation) for the survey contour information provided. **Due to the size of the project and the method in which the survey was obtained, we have added a sheet that shows all control data for the area. A reference to this sheet was added to the overall sheet.**
3. Please verify the 100yr-24hr and 100yr-10day ponding volume calculations for basins 3, 4, 5 and 6 in the basin data table on sheet 7 (Drawing No. C-00-S-10-05). I applied the equations and tables from section 6-2(A) in the DMP, I got the same weighted E values, but my 100yr-24hr and 100yr-10day volume numbers are slightly different than Jacobs. **We have updated the required 10-day volume numbers and are in line with what you have listed below.**

Basin ID	Area (AC)	V 100yr, 24hr (CF)	Jacobs	V 100-yr, 10-day (CF)	Jacobs	V 100-yr, 10-d (AC-FT)	Jacobs
1A	11.7	72681	72968	90180	96252	2.1	2.2
1B	19.9	141187	141317	182601	196257	4.2	4.5
2	7.8	52381	52570	66651	71553	1.5	1.6
3	40	331521	37397	446414	189723	10.2	4.4
4	34.9	290937	32981	392299	167320	9.0	3.8
5	3.8	30761	3351	41189	17001	0.9	0.4
6	7.5	65419	7702	89123	39071	2.0	0.9
7	6.9	52714	53086	69567	75579	1.6	1.7

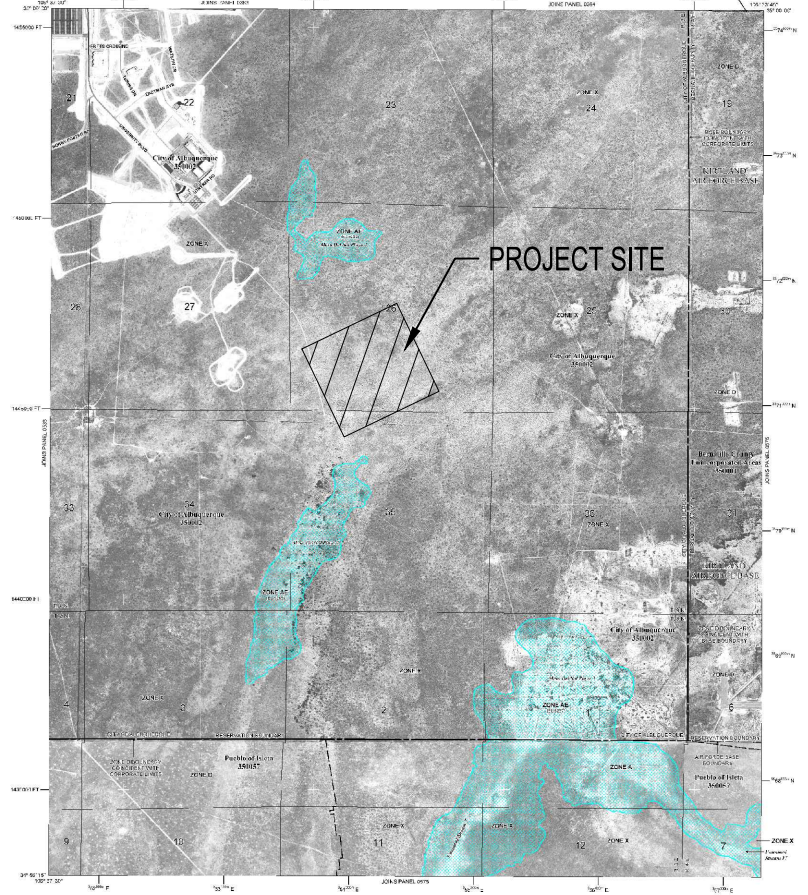
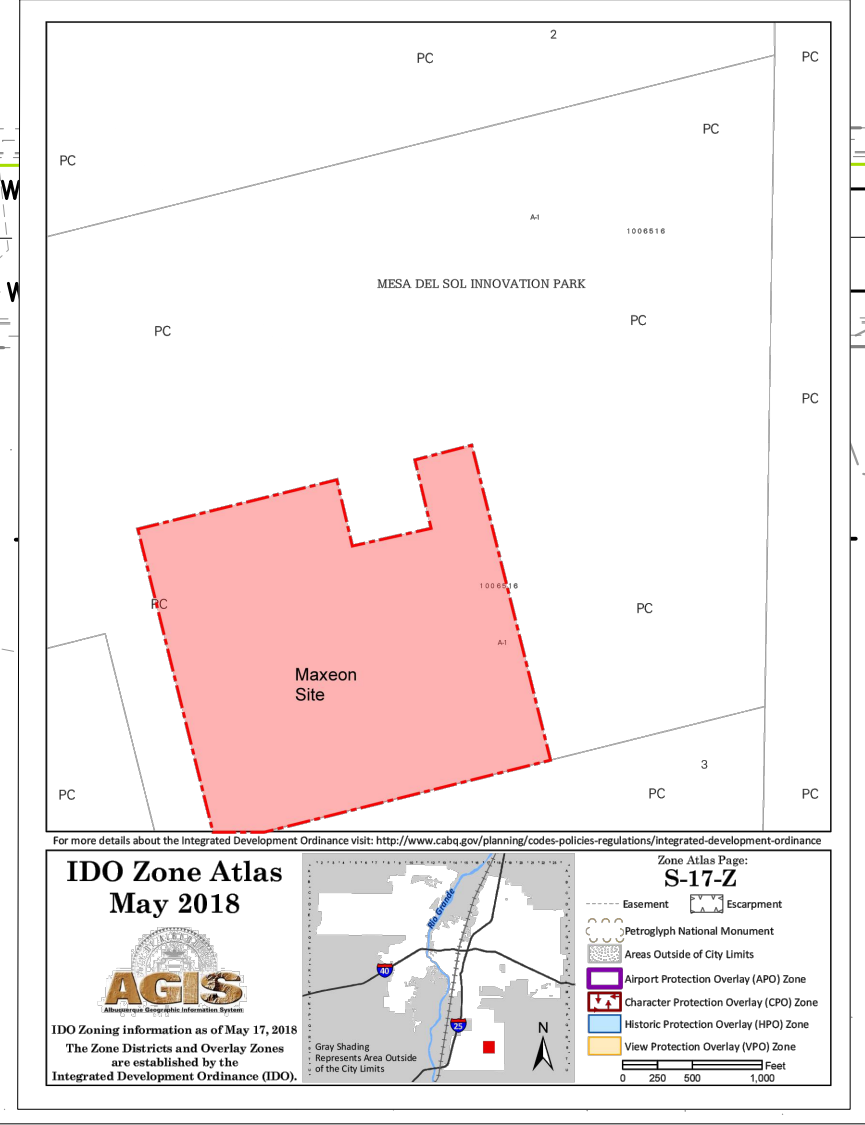
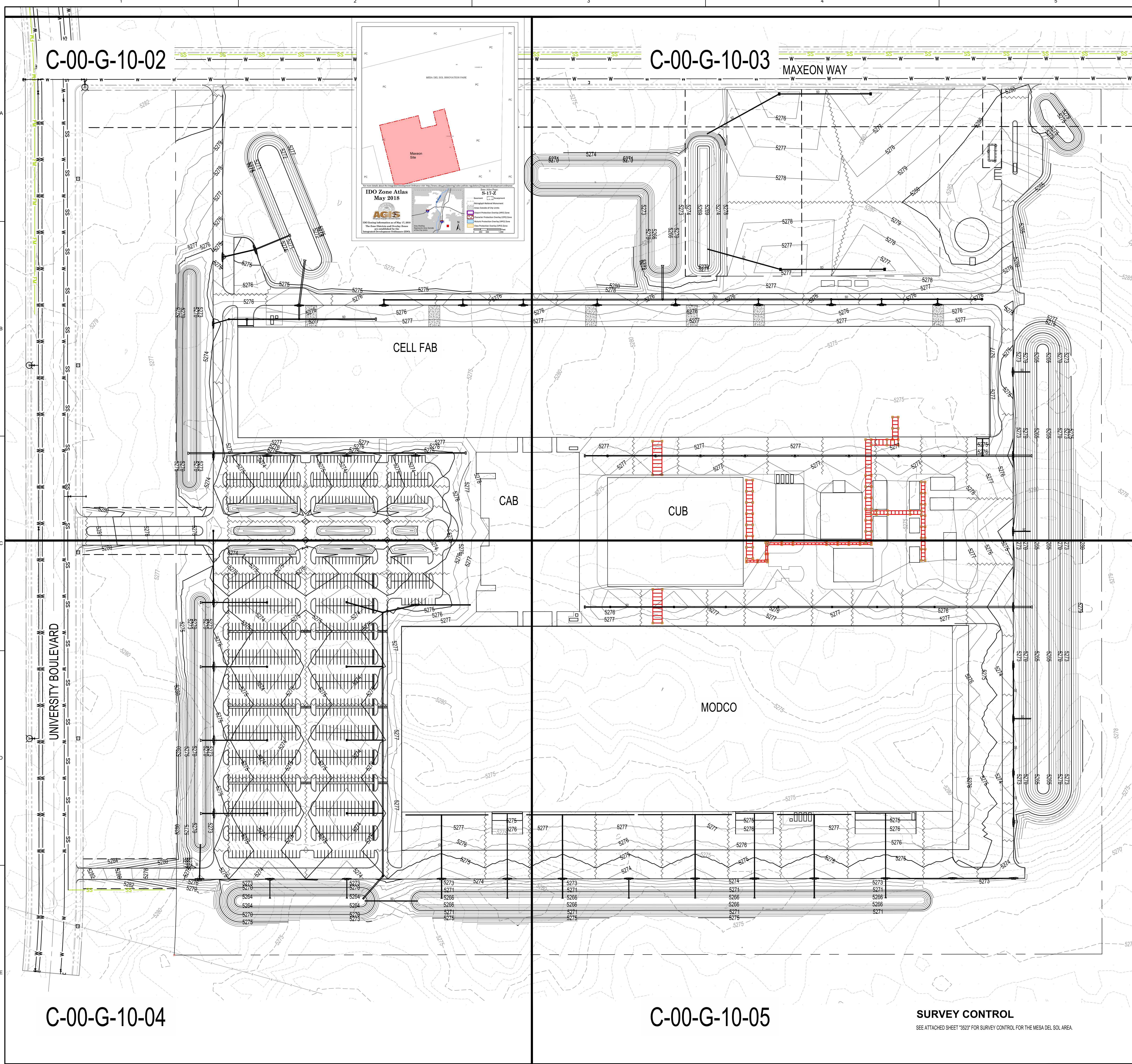
4. Add proposed SD pipe size on the plan. **SD sizes have been added.**

If you have any questions, please contact me at 505-923-3306

Sincerely,

A handwritten signature in black ink, appearing to read "Josh Lutz". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Josh Lutz, P.E.  
Senior Project Manager  
Community Development & Planning



FEMA FIRM MAP #35001C0555H

**GENERAL NOTES**

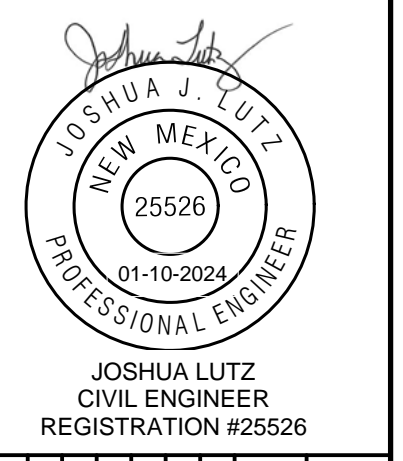
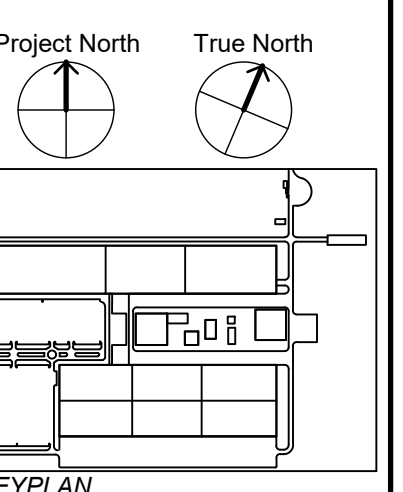
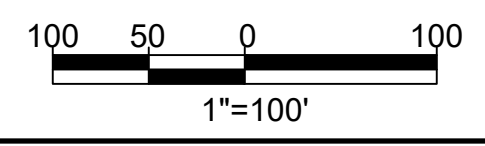
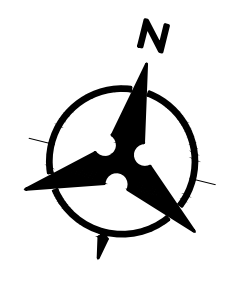
1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT, WHERE APPLICABLE. CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES.
14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

**ROUGH GRADING NOTES**

1. GRADES SHOWN ON THE ROUGH GRADING PLAN REPRESENT FINISHED GRADES. FINISHED GRADES SHALL BE ADJUSTED TO ACCOUNT FOR PAVEMENT SECTION AND BUILDING FLOOR SLAB.
2. PRIOR TO SUBSTANTIAL COMPLETION OF ROUGH GRADING, CONTRACTOR SHALL PROVIDE CERTIFIED FINISHED GRADE, INCLUDING STOCKPILES (HARD COPY AND ELECTRONIC FORMAT - AUTOCAD PREFERRED) FROM A LICENSED SURVEYOR. TOPOGRAPHIC ACCURACY SHALL BE AS REQUIRED TO PROVIDE 1' CONTOUR INTERVAL.
3. FOR THE BUILDING AREA, OVER EXCAVATION AND BACKFILL SHALL OCCUR PER GEOTECHNICAL REPORT.
4. CONTRACTOR IS RESPONSIBLE FOR SWPPP PREPARATION AND IMPLEMENTATION.
5. FINISHED GRADE FOR PAVEMENT AREAS SHALL BE LEFT AS FOLLOWS:
  - A. SIDEWALKS: 4" BELOW PAVEMENT SURFACE ELEVATIONS SHOWN ON GRADING PLAN.
  - B. AUTOMOBILE PARKING AND DRIVE LANES: PER LIGHT DUTY PAVEMENT SECTION.
  - C. HEAVY TRUCK TRAFFIC (INCLUDING DELIVERY & TRASH TRUCKS): PER HEAVY DUTY PAVEMENT SECTION.
  - D. FLOOR SLAB: BELOW FINISHED FLOOR PER STRUCTURAL PLANS.

**LEGEND**

	PROPERTY LINE
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED DRAINAGE SWALE
	DIRECTION OF FLOW
	WATER BLOCK/GRADE BREAK
	PROPOSED STORM DRAIN PIPE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN INLETS
	PROPOSED STORM DRAIN CAP
	PROPOSED EASEMENT
	RETAINING WALL
	PROPOSED BUILDING
	BUILDING NUMBER



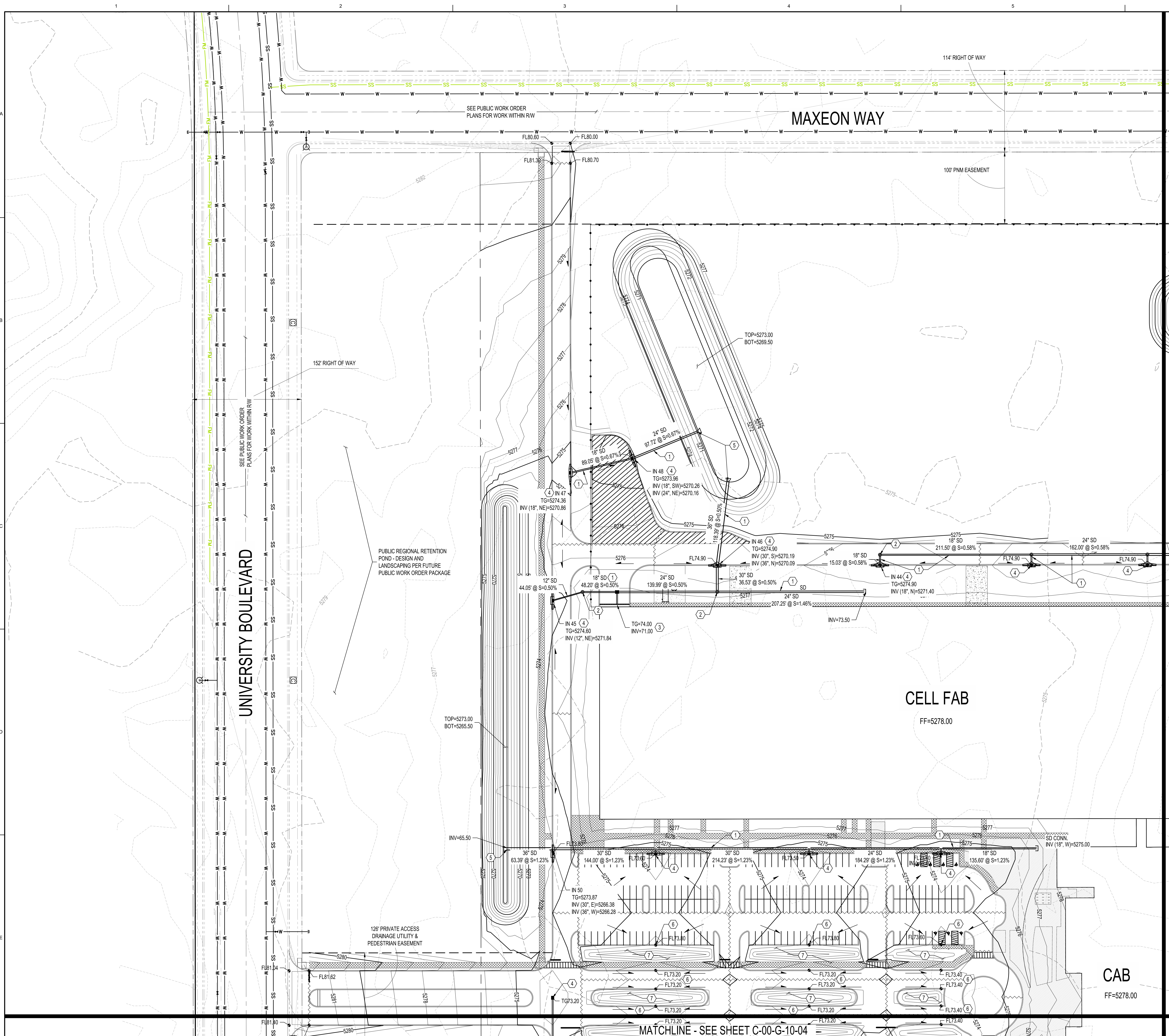
NO.	DATE	BY	APPROVED	SCALE NAME
1	2024/01/05	JL	JL	DR
2				CHK
3				REV
4				DESIGN

maxeon

Project Title: GOLDEN EAGLE  
 Drawing Title: OVERALL GRADING PLAN

Proj. Address: MESA DEL SOL, ALBUQUERQUE, NEW MEXICO  
 Proj. No.: D3794500  
 Date: 2024/01/05  
 Scale: 1" = 100'  
 Drawing No.: C-00-G-10-01

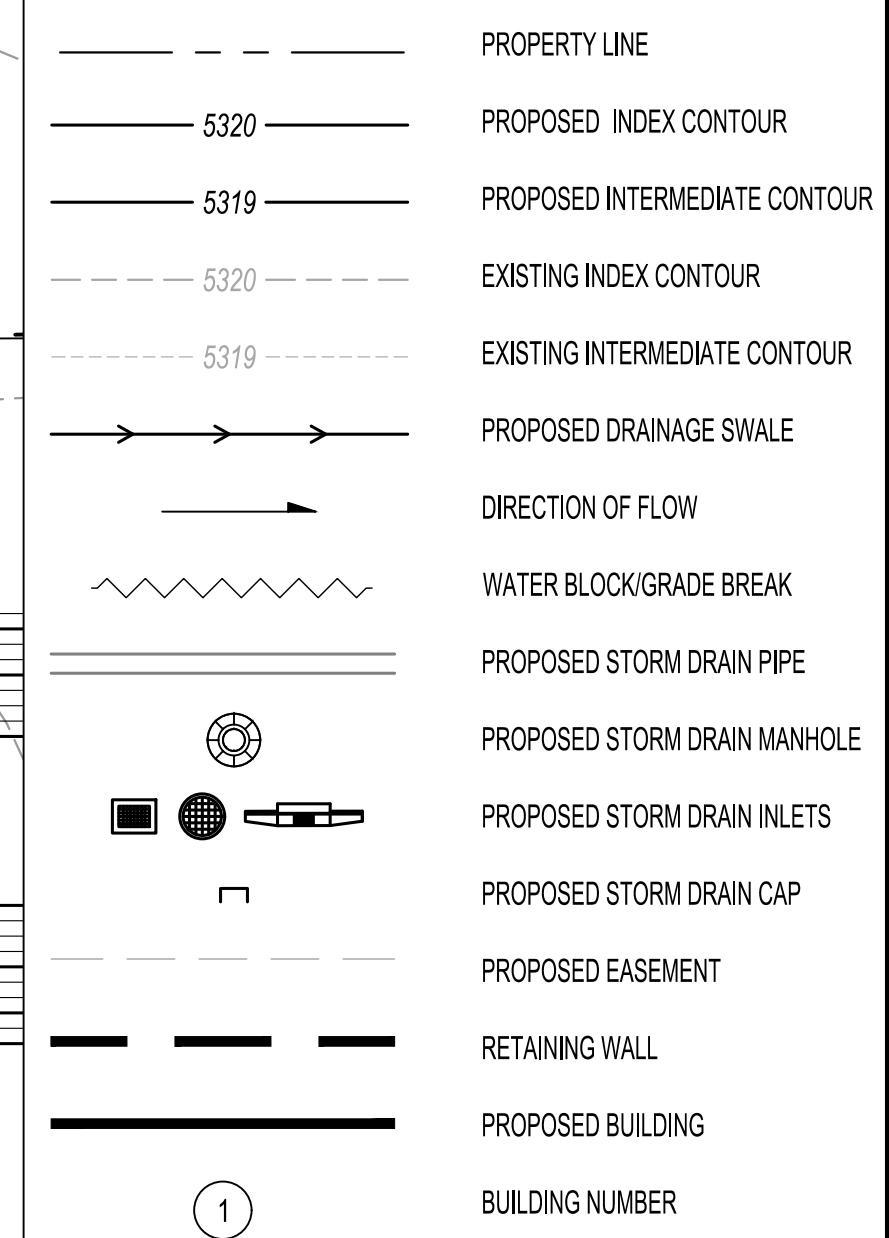




**GRADING KEYED NOTES**

1. INSTALL HDPE STORM DRAIN PIPE.
2. CONSTRUCT STORM DRAIN MANHOLE PER COA STD DWG 2101.
3. INSTALL TRENCH DRAIN AT DOCKS.
4. CONSTRUCT STORM DRAIN INLET.
5. INSTALL STORM DRAIN FLARED END SECTION, WITH RIP RAP PAD.
6. INSTALL 12" CONCRETE CURB OPENING.
7. INSTALL WATER HARVESTING POND

**LEGEND**

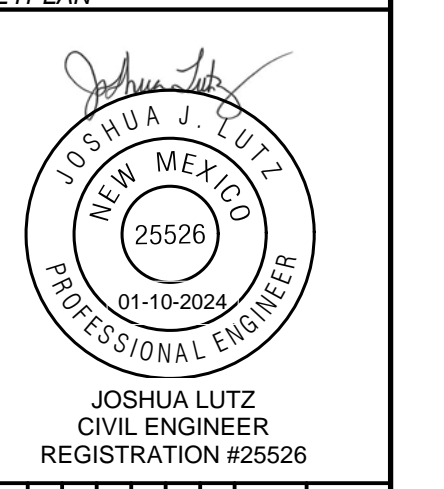
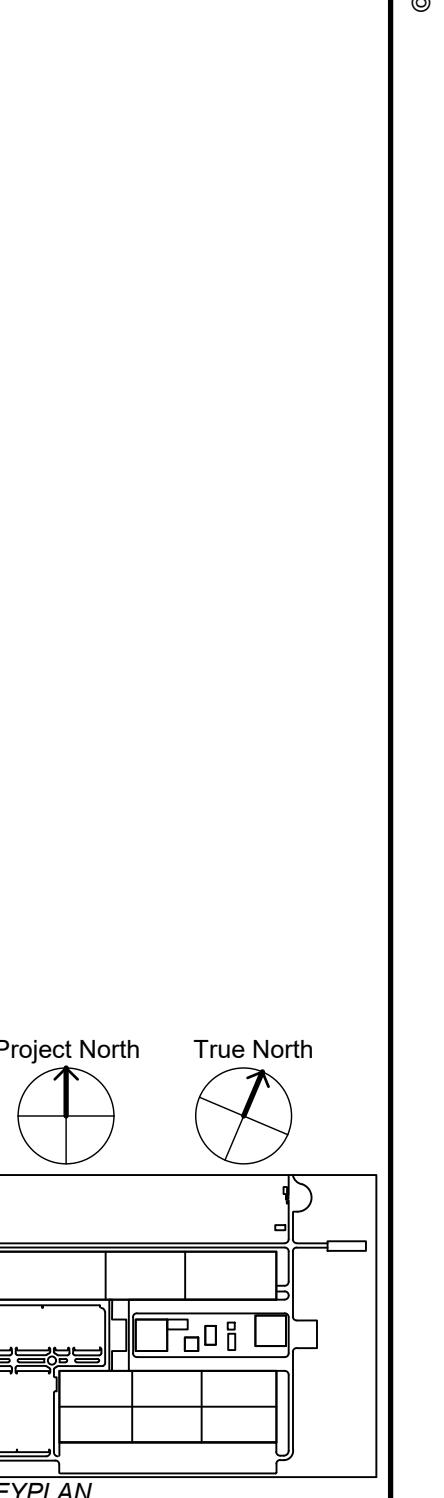


NOTE: THIS SUBMITTAL IS FOR ROUGH GRADING ONLY. INLET AND DOWNSPOUTS THAT WILL CONNECT UNDERGROUND TO ADJACENT STORM DRAIN SYSTEM.

NOTE: ROOF DRAINS ARE ASSUMED TO BE GUTTERS AND DOWNSPOUTS THAT WILL CONNECT UNDERGROUND TO ADJACENT STORM DRAIN SYSTEM.

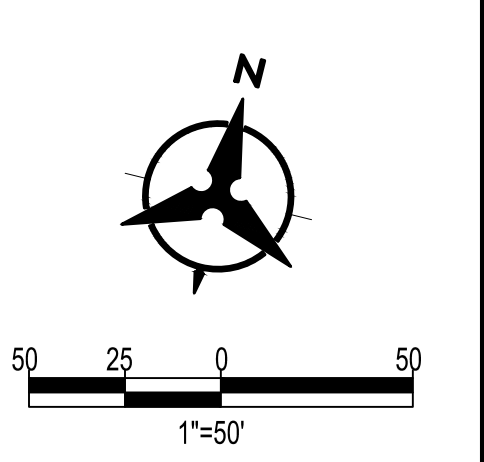


Project North True North



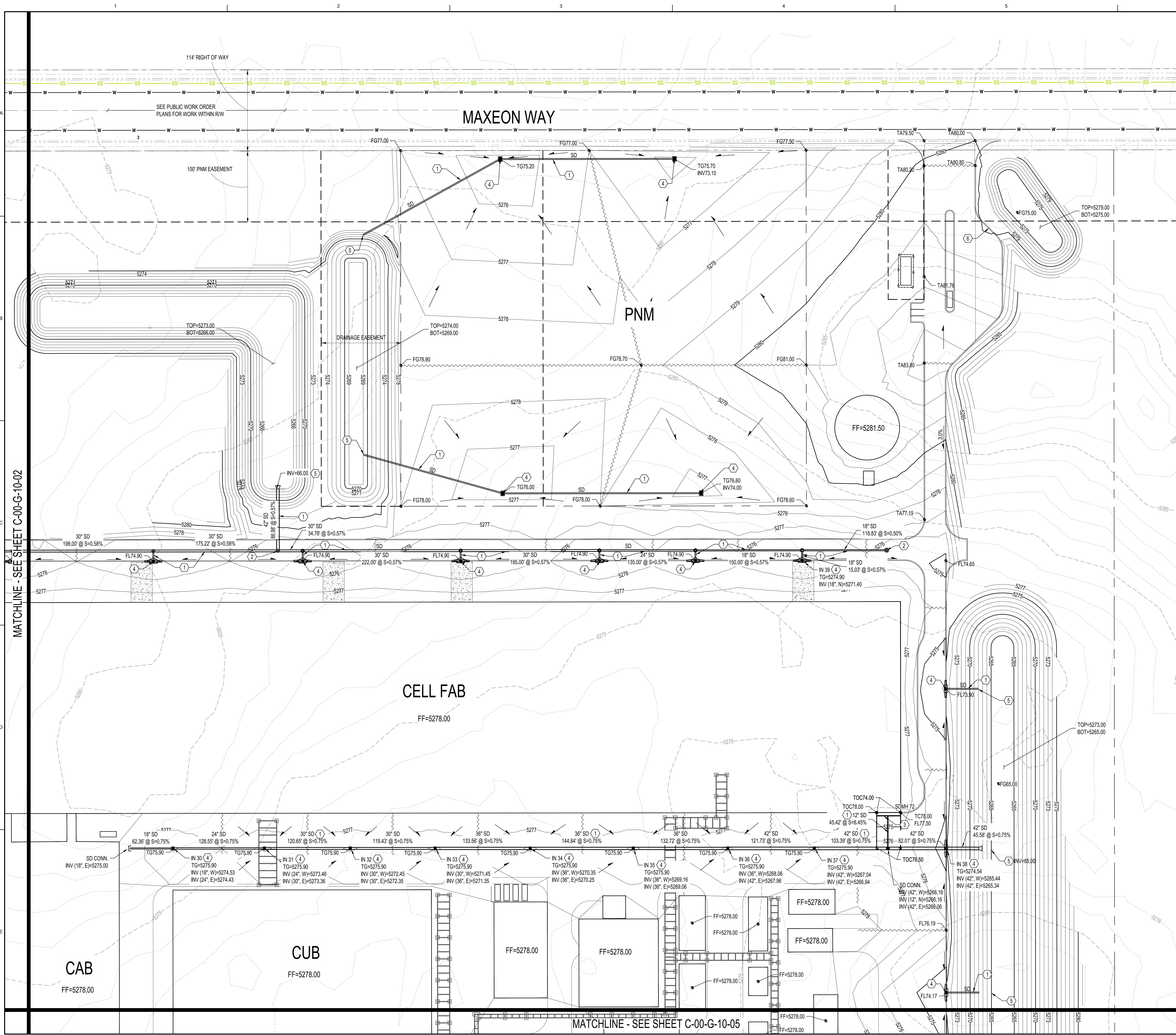
NO.	DATE	REVISION	CHK	DR	APVD	SCALE
1	2023/11/17	PRELIMINARY MIDPOINT REVIEW				
2						
3						
4						
5						
6						
7						
8						
9						
10						

**maxon**



Project Title: **GOLDEN EAGLE**  
 Drawing Title: **GRADING PLAN**

Proj. Address: MESA DEL SOL, ALBUQUERQUE, NEW MEXICO  
 Proj. No.: D3794500  
 Date: 2024/01/05  
 Scale: 1" = 50'  
 Drawing No.: **C-00-G-10-02**



**GRADING KEYED NOTES**

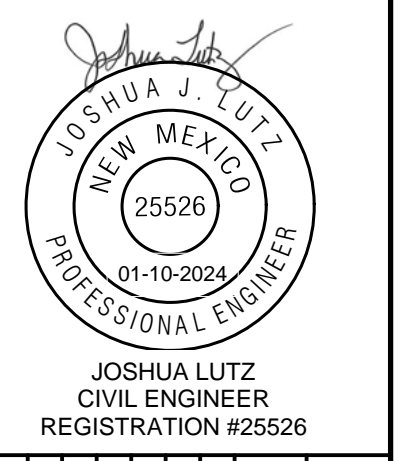
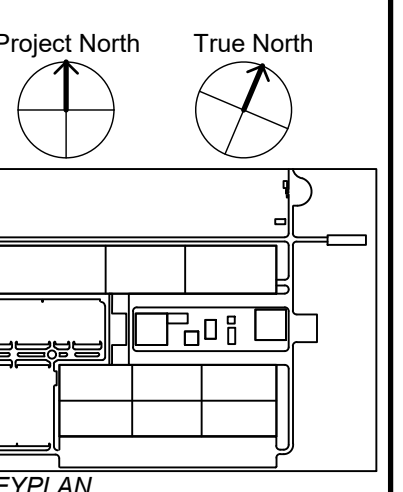
1. INSTALL HDPE STORM DRAIN PIPE.
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3. INSTALL TRENCH DRAIN AT DOCKS.
4. CONSTRUCT STORM DRAIN INLET.
5. INSTALL STORM DRAIN FLARED END SECTION, WITH RIP RAP PAD.
6. INSTALL 12" CONCRETE CURB OPENING.
7. INSTALL WATER HARVESTING POND.

**LEGEND**

- PROPERTY LINE
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED DRAINAGE SWALE
- DIRECTION OF FLOW
- WATER BLOCK/GRADE BREAK
- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLETS
- PROPOSED STORM DRAIN CAP
- PROPOSED EASEMENT
- RETAINING WALL
- PROPOSED BUILDING
- BUILDING NUMBER

NOTE: THIS SUBMITTAL IS FOR ROUGH GRADING ONLY. INLET AND STORM DRAIN SIZING WILL BE A PART OF A FUTURE SUBMITTAL.

NOTE: ROOF DRAINS ARE ASSUMED TO BE GUTTERS AND DOWNSPOUTS THAT WILL CONNECT UNDERGROUND TO ADJACENT STORM DRAIN SYSTEM.

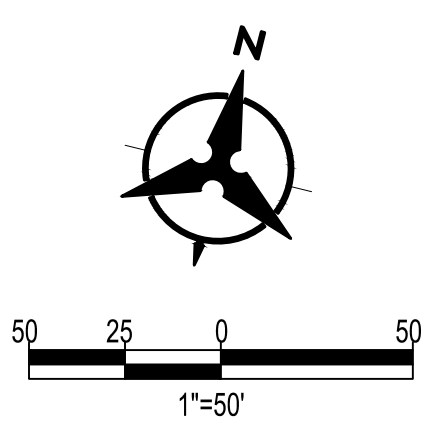


NO.	DATE	REVISION	DR	CHK	APVD	SCALE/NAME
1	2024/01/05	PRELIMINARY MIDPOINT REVIEW				

**maxon**

Project Title: **GOLDEN EAGLE**  
 Drawing Title: **GRADING PLAN**

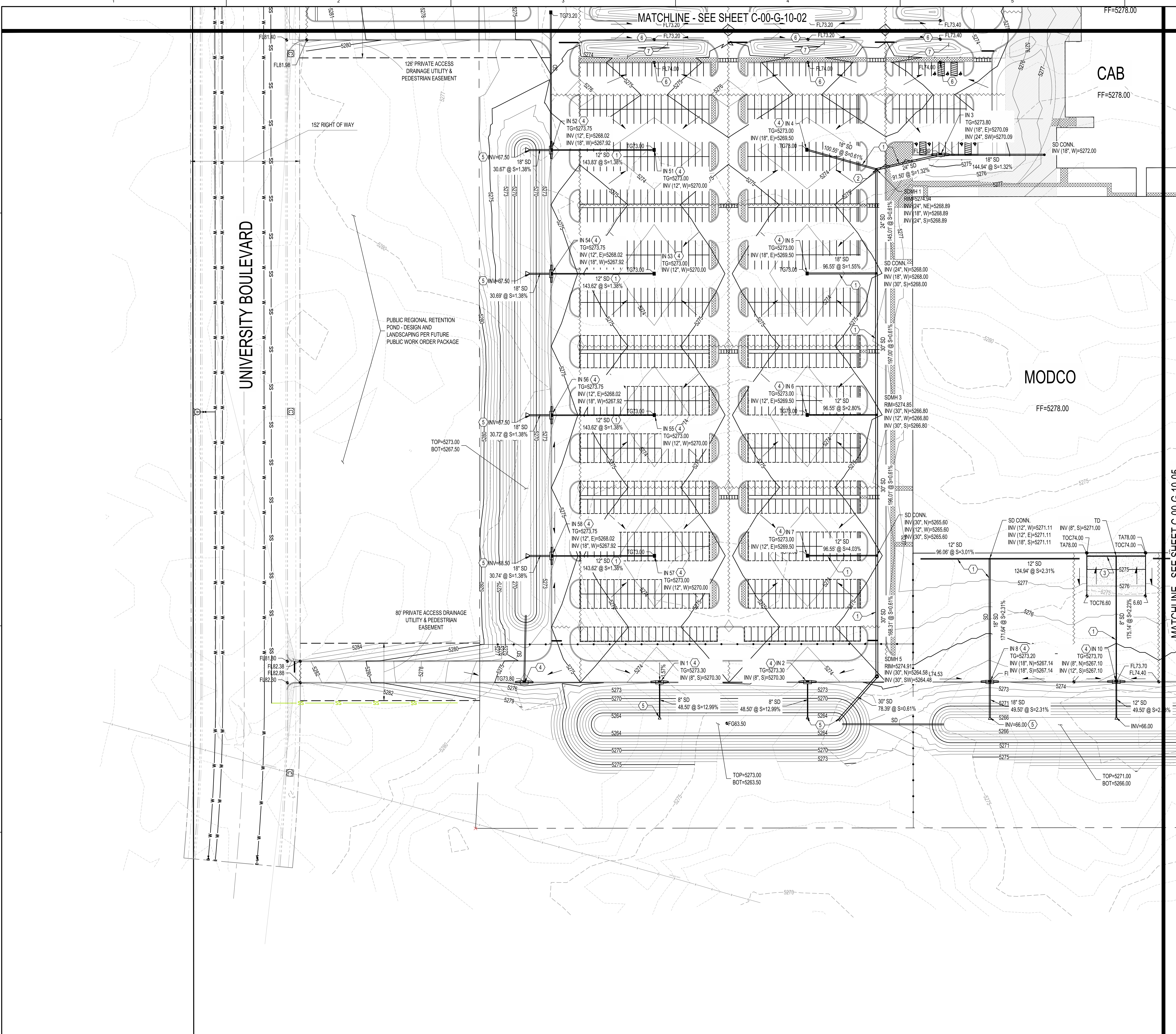
Proj. Address: MESA DEL SOL, ALBUQUERQUE, NEW MEXICO  
 Proj. No.: D3794500  
 Date: 2024/01/05  
 Scale: 1" = 50'  
 Drawing No.: **C-00-G-10-03**



MATCHLINE - SEE SHEET C-00-G-10-02

MATCHLINE - SEE SHEET C-00-G-10-05





**GRADING KEYED NOTES**

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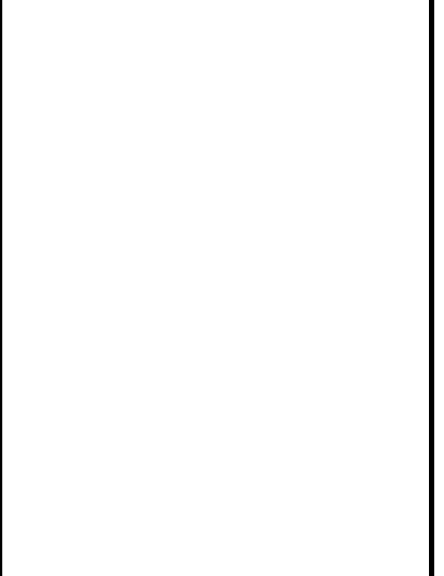
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- 5320 — PROPOSED INDEX CONTOUR
- 5319 — PROPOSED INTERMEDIATE CONTOUR
- 5320 — EXISTING INDEX CONTOUR
- 5319 — EXISTING INTERMEDIATE CONTOUR
- → → PROPOSED DRAINAGE SWALE
- → → DIRECTION OF FLOW
- ~ ~ ~ WATER BLOCK/GRADE BREAK
- — — PROPOSED STORM DRAIN PIPE
- ⊙ PROPOSED STORM DRAIN MANHOLE
- ⊙ PROPOSED STORM DRAIN INLETS
- ⊙ PROPOSED STORM DRAIN CAP
- — — PROPOSED EASEMENT
- — — RETAINING WALL
- — — PROPOSED BUILDING
- ① BUILDING NUMBER

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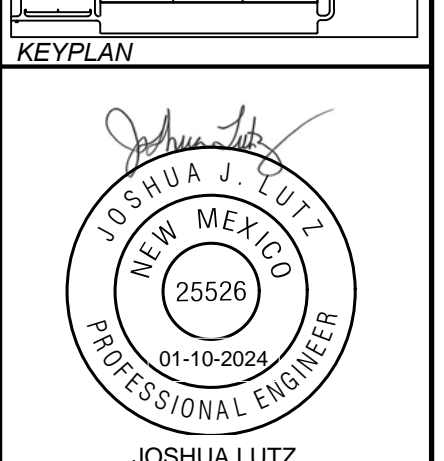
NOTE: ROOF DRAINS ARE ASSUMED TO BE GUTTERS AND DOWNSPOUTS THAT WILL CONNECT UNDERGROUND TO ADJACENT STORM DRAIN SYSTEM.



Project North  
True North



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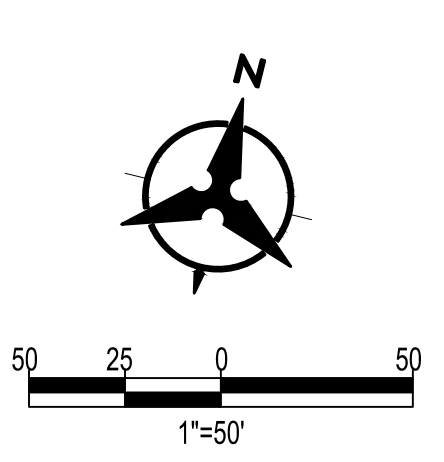


NO.	DATE	BY	CHK	APVD	SCALE
1	2024/01/05	JL	REVISION		
2			PRELIMINARY MIDPOINT REVIEW		

**maxon**

Project Title: **GOLDEN EAGLE**  
Drawing Title: **GRADING PLAN**

Proj. Address: MESA DEL SOL, ALBUQUERQUE, NEW MEXICO  
Proj. No.: D3794500  
Date: 2024/01/05  
Scale: 1" = 50'  
Drawing No.: **C-00-G-10-04**



GRADING KEYED NOTES

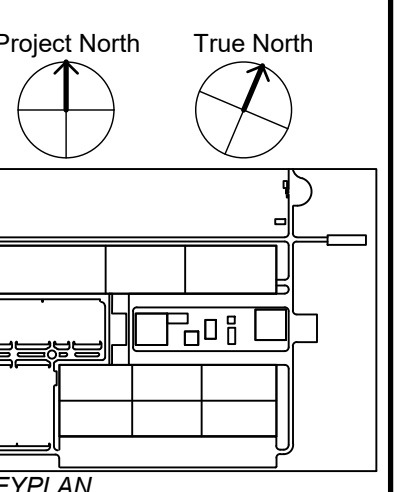
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LEGEND

- PROPERTY LINE
- - - PROPOSED INDEX CONTOUR
- - - PROPOSED INTERMEDIATE CONTOUR
- - - EXISTING INDEX CONTOUR
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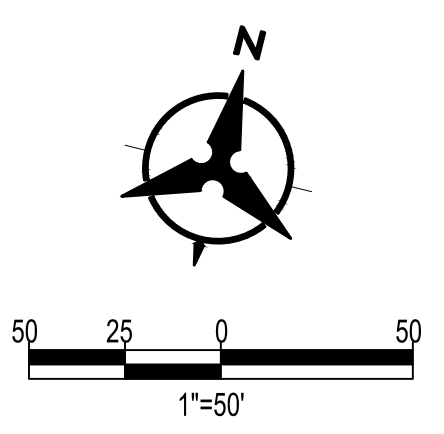
NOTE: ROOF DRAINS ARE ASSUMED TO BE GUTTERS AND DOWNSPOUTS THAT WILL CONNECT UNDERGROUND TO ADJACENT STORM DRAIN SYSTEM.



Professional Engineer seal for Joshua J. Lutz, New Mexico, Registration #25526, dated 09-10-2020.

NO.	DATE	REVISION	DR	CHK	APVD	SEAL/NAME
1	2023/11/17	PRELIMINARY MIDPOINT REVIEW				

maxon

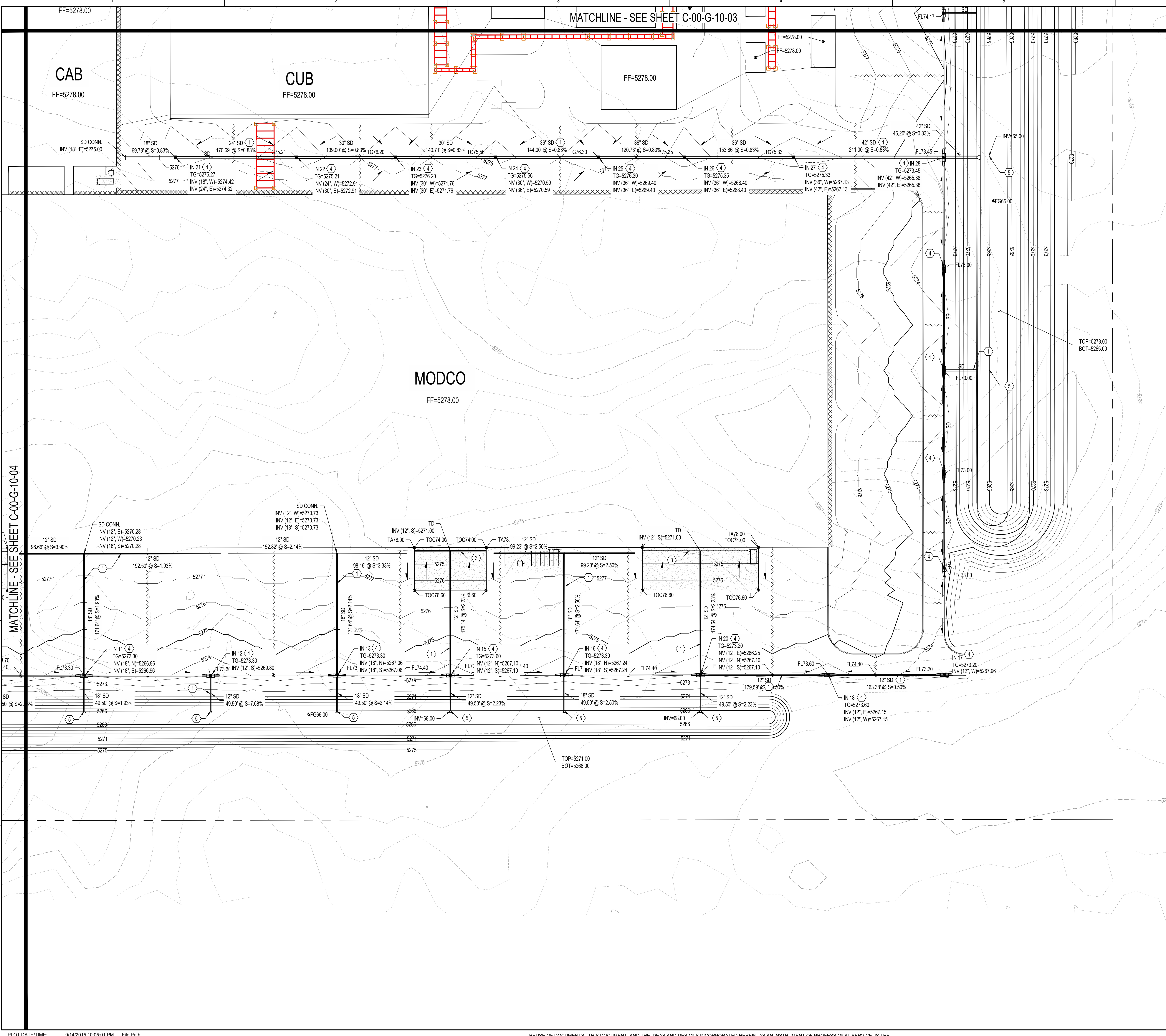


Project Title: GOLDEN EAGLE  
 Drawing Title: GRADING PLAN

Proj. Address: MESA DEL SOL, ALBUQUERQUE, NEW MEXICO

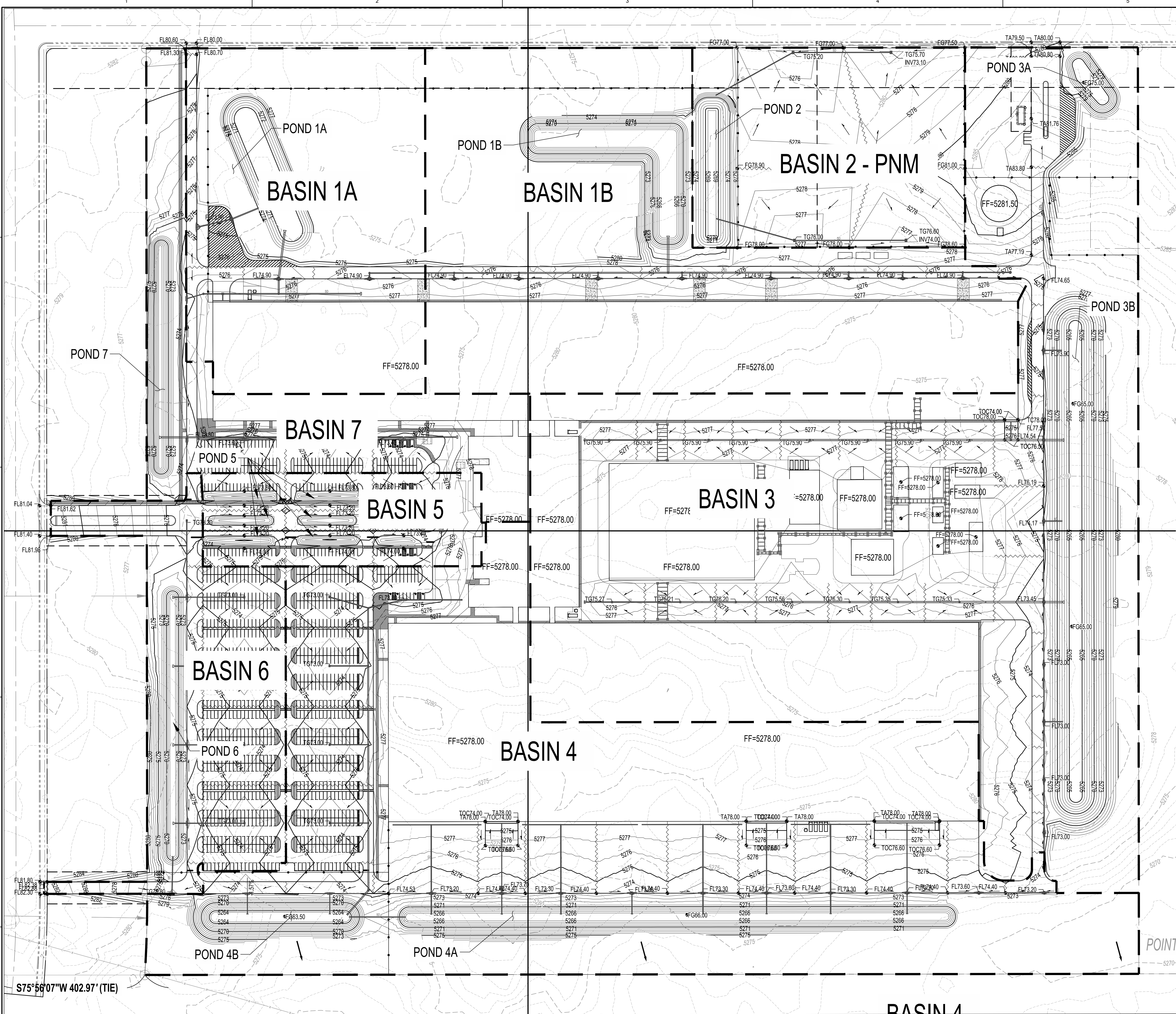
Proj. No.: D3794500  
 Date: 2024/01/05  
 Scale: 1" = 50'

Drawing No.: C-00-G-10-05



MATCHLINE - SEE SHEET C-00-G-10-04

MATCHLINE - SEE SHEET C-00-G-10-03



**I. INTRODUCTION**  
 THE PURPOSE OF THIS SUBMITTAL IS TO PRESENT A GRADING AND DRAINAGE PLAN IN CONJUNCTION WITH THE WATER HARVESTING PLAN FOR THE PROPOSED GOLDEN EAGLE DEVELOPMENT SITE. GOLDEN EAGLE SITS ON A FUTURE TRACT 1 OF THE FUTURE BULK PLAT TO BE SUBMITTED, APPROXIMATELY 130 ACRES, AND CONSISTS OF MULTIPLE INDUSTRIAL BUILDINGS, SUPPORT FACILITIES, ASSOCIATED PARKING AND 4 SEPARATE PNM TRACT. IT IS EXPECTED THAT THE SITE WILL GO THROUGH THE PERMITTING PROCESS AS ONE PHASE BUT COULD REQUEST SEPARATE CERTIFICATES OF OCCUPANCY WHICH WILL BE DETAILED AT SUBSEQUENT HYDROLOGY BUILDING PERMIT APPROVALS. THIS GRADING AND DRAINAGE PLAN AND DRAINAGE MANAGEMENT/WATER HARVESTING PLAN HAS BEEN PREPARED IN SUPPORT OF CITY OF ALBUQUERQUE DPT APPROVAL, AND ROUGH GRADING PERMIT APPROVAL.

**II. EXISTING HYDROLOGIC CONDITIONS**  
 THE SITE IS APPROXIMATELY 130 ACRES (INCLUDE A 6 ACRE PNM TRACT) AND IS CURRENTLY UNDEVELOPED. THE LAND IS RELATIVELY FLAT THROUGHOUT, WITH SLOPES RANGING FROM 0.3% TO 5% WITH A GENERAL TREND SLOPING FROM THE NORTH TO THE SOUTH. SPARSE VEGETATION COVER CAN BE SEEN ON SITE. ACCORDING TO FEMA COMMUNITY MAP PANEL #350310555H THE SITE IS NOT LOCATED WITHIN A FLOOD PLAIN HOWEVER IS IN CLOSE PROXIMITY TO FLOOD ZONES LABELED MESA DEL SOL PLAYA 3 AND MESA DEL SOL PLAYA 3 RESPECTIVELY. THESE ZONES HAVE BEEN IDENTIFIED AND PRECAUTIONARY MEASURES WILL BE UTILIZED TO ENSURE THEY HAVE NO IMPACT ON OUR SITE.

**III. PROPOSED HYDROLOGIC CONDITIONS**  
 THE 100 YR. 10 DAY DEVELOPED FLOWS FROM THE ENTIRE 130 ACRE SITE ARE RETAINED ON SITE WITHIN RETENTION/WATER HARVESTING PONDS THAT HAVE BEEN PLACED STRATEGICALLY THROUGHOUT. THE SITE WAS DIVIDED INTO MULTIPLE BASINS AND DRAINS BOTH OVERLAND OR THROUGH A SYSTEM OF STORM DRAINS TO RETENTION PONDS. EACH BASIN HAS A PONDING LOCATION WHICH IS DESIGNED TO RETAIN THE VOLUME OF THE 100 YR. 10 DAY STORM. THE STORM WATER QUALITY VOLUME IS CALCULATED USING 0.5" EVENT.

**IV. OFFSITE FLOWS**  
 IN EXISTING CONDITIONS, THE SITE IS IMPACTED BY SIGNIFICANT OFFSITE FLOWS COMING FROM THE WEST, NORTH, AND EAST DIRECTIONS. THESE FLOWS SHALL BE DIVERTED AROUND OUR SITE BY WAY OF REGIONAL INFRASTRUCTURE DEVELOPED THROUGH OTHER PROJECTS AND SHALL NOT IMPACT THE SITE.

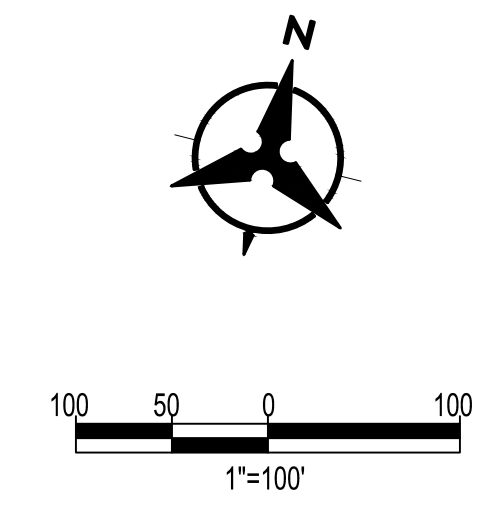
**V. CONCLUSION**  
 THE TOTAL FLOW GENERATED ON SITE WILL BE RETAINED ON SITE. THESE FLOWS WERE COMPUTED IN ACCORDANCE WITH SECTION 6-10 OF THE DEVELOPMENT PROCESS MANUAL. THIS DRAINAGE MANAGEMENT PLAN/WATER HARVESTING PLAN IS CAPABLE OF SAFELY MITIGATING THE 100 YEAR 10 DAY STORM AND MEETS CITY REQUIREMENTS AND MEETS MESA DEL SOL LEVEL 6 REQUIREMENTS FOR STORM WATER HARVESTING.

**LEGEND**

- BASIN 1 BASIN ID
- POND 1 POND ID
- BASIN BOUNDARY
- MANHOLE
- ▬ CURB INLET
- ▬ GRATE INLET
- ▬ STORM DRAIN PIPE
- EMERGENCY OVERTFLOW

Retention Pond ID	Contributing Basins	Req'd Volume (V100, 10day) (acre-feet)	Provided Volume (acre-feet)
Pond 1A	Basin 1A	2.7	2.6
Pond 1B	Basin 1B	4.2	7.1
Pond 2	Basin 2	1.5	2.1
Pond 3A	Basin 3	0.6	0.7
Pond 3B	Basin 3	9.6	18.7
Pond 4A*	Basin 4	6.9	9.4
Pond 4B*	Basin 4	2.1	9.4
Pond 5	Basin 5	0.9	0.4
Pond 6	Basin 6	2.0	2.8
Pond 7	Basin 7	1.6	3.1
<b>TOTAL</b>		<b>31.65</b>	<b>46.8</b>

\*Combined Volume of 4A and 4B



City of Albuquerque  
 Planning Department  
 Development Review Services  
**HYDROLOGY SECTION**  
**PRELIMINARY APPROVED**  
 DATE: 1/11/2024  
 BY: [Signature]  
 HydroTrac # S17D001  
 THIS PLAN AND/OR REPORT ARE CONCEPTUAL ONLY. MORE INFORMATION MAY BE NEEDED BY THE CITY AND PERMITTED TO HYDROLOGY FOR BUILDING PERMIT APPROVAL.

**Golden Eagle Basin Data Table**  
 This table is based on page 6-10 of the DPM, Zone: 3

Basin ID	Area (SQ. FT)	Area (AC)	Land Treatment Percentages				Q(100yr) (cfs)	Q(100yr) (inches)	V(100yr-6hr) (CF)	V(100yr-24hr) (CF)	V(100yr-10d) (CF)	V(100yr-10d) (AC-FT)	SWQV (CF)	
			A	B	C	D								
<b>SITE</b>														
Basin 1A - Northwest Basin	511664	11.7	0.0%	0.0%	67.3%	3.6	42.3	1.6	67251	72968	90536	2.1	6971	
Basin 1B - Northeast Basin	867643	19.9	0.0%	0.0%	54.5%	45.5%	3.8	75.1	1.8	127829	141317	182769	4.2	16449
Basin 2 - PNM	340997	7.8	0.0%	0.0%	60.0%	40.0%	3.7	28.9	1.7	47910	52570	66892	1.5	5683
Basin 3 - East Basin	1742919	40.0	0.0%	0.0%	37.2%	62.8%	4.0	160.0	2.0	294222	331619	446547	10.3	45606
Basin 4 - South Basin	1520173	34.9	0.0%	0.0%	36.5%	63.5%	4.0	139.9	2.0	257942	290923	392281	9.0	40221
Basin 5 - West Island Basin	163473	3.8	0.0%	0.0%	40.0%	60.0%	4.0	14.9	2.0	27028	30379	40678	0.9	4087
Basin 6 - Southwest Parking Basin	326210	7.5	0.0%	0.0%	30.9%	69.1%	4.1	30.6	2.1	57619	65321	88989	2.0	9392
Basin 7 - Northwest Basin	302683	6.9	0.0%	0.0%	53.4%	46.6%	3.9	26.9	1.9	47563	53086	70057	1.6	6735

Project Title: **GOLDEN EAGLE**  
 Drawing Title: **DRAINAGE MANAGEMENT PLAN/WATER HARVESTING PLAN**  
 Proj. Address: MESA DEL SOL, ALBUQUERQUE, NEW MEXICO  
 Proj. No.: D3794500  
 Date: 2024/01/05  
 Scale: C-00-S-10-05

Project North True North

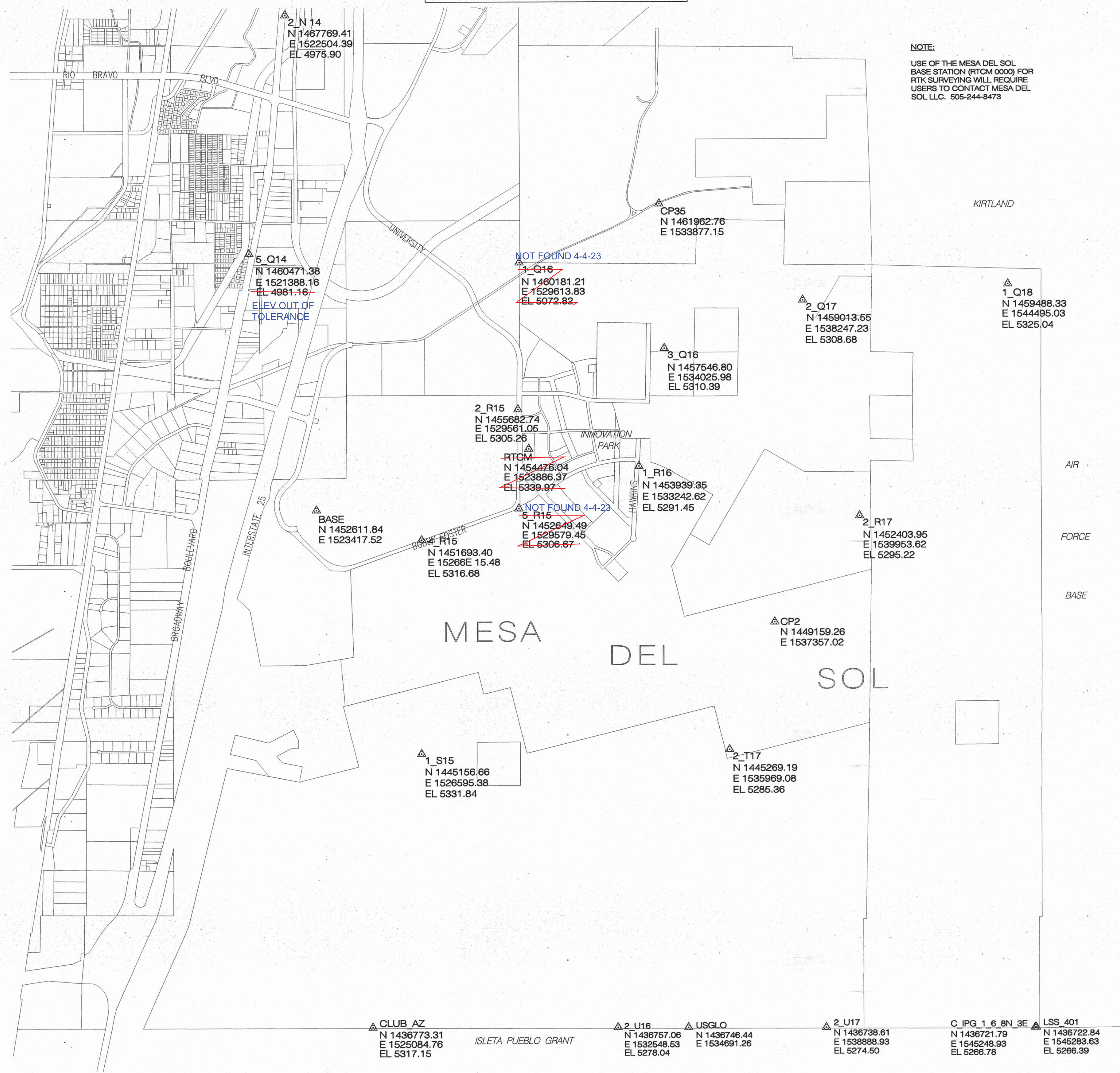
KEYPLAN

JOSHUA J. LUTZ  
 CIVIL ENGINEER  
 REGISTRATION #25526

NO.	DATE	REVISION	BY	APPROVED	SCALE
1		PRELIMINARY MIDPOINT REVIEW	JXL/SNS	JL	

maxeon

ALL COORDINATES SHOWN BELOW ARE GROUND MODIFIED PROJECT COORDINATES



**NOTE:**  
USE OF THE MESA DEL SOL BASE STATION (RTCM 0000) FOR RTK SURVEYING WILL REQUIRE USERS TO CONTACT MESA DEL SOL LLC. 505-244-8473

**INTRODUCTION:**  
THE PURPOSE OF THE CONTROL LISTED BELOW IS TO SERVE AS A SPATIAL REFERENCE FOR THE MESA DEL SOL DEVELOPMENT. THE INTENDED ACCURACY IS 0.10' HORIZONTAL AND 0.10' VERTICAL.

**PROJECT CONTROL STATISTICS:**  
UNITS: US SURVEY FOOT  
HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD83  
PROJECTION: TRANSVERSE MERCATOR  
STATE PLANE AND/OR UTM ZONE: NEW MEXICO CENTRAL ZONE (3002)  
GRID BEARING: 0.99956077  
PROJECT COMBINED FACTOR: TRANSLATE NAD 83 CAP NORTHINGS AND EASTINGS BY 43.257' AND 43.257' SCALE ABOUT 0.0 BY 1.000204132  
FIELD METHODOLOGY: RTK OBSERVATIONS, TRIMBLE SITE CALIBRATION TO PRIMARY CONTROL POINTS, MESA DEL SOL BASE STATION IS POINT "TODAY" VALUES ARE TO L1 ANTENNAE PHASE CENTER  
EQUIPMENT USED: TRIMBLE GPS EQUIPMENT (5800 DUAL FREQUENCY RECEIVERS) AND TOPCON RECEIVER (MESA DEL SOL BASE STATION)  
CONTROL SET DATE: 2003-2007  
OBSERVATION DATE: DECEMBER 2007 AND APRIL 2008  
ADJUSTMENT/COMPILED DATE: APR 10, 2008

DO NOT USE: SEE P:120180398/SURVEY 103 GEODESIGN 105 DB SETUP WMS\_MOD\_SETUP\_CSF



UPDATED 4-4-2023

PRIMARY CONTROL USED (GRID): (CITY OF ALBUQUERQUE PUBLISHED VALUES)

POINT	LATITUDE	LONGITUDE	ELLIPSOID	ELEVATION	NORTHING	EASTING	DESCRIPTION
3_016	35°00'15.44018"N	106°36'25.34383"W	5240.68	5310.39	1457045.09	1533498.78	BRASS CAP
LSS_401	34°56'49.90801"N	106°34'09.25686"W	5197.41	5266.39	1436228.52	1544752.49	BRASS CAP
2_N14	35°01'56.09165"N	106°38'44.28991"W	4905.63	4975.90	1467264.09	1521981.18	ALUMINUM CAP
1_Q16	34°58'44.32887"N	106°37'18.48468"W	5002.06	5072.82	1469676.66	1529098.13	BRASS CAP
2_Q17	35°00'30.08952"N	106°35'34.67700"W	5239.23	5308.68	1458511.31	1537718.47	ALUMINUM CAP
2_R15	34°59'56.84697"N	106°37'18.91749"W	5235.33	5305.26	1455181.67	1529035.38	ALUMINUM CAP
4_R15	34°59'17.29034"N	106°37'54.12983"W	5246.58	5316.68	1451193.72	1526990.86	ALUMINUM CAP
1_Q18	35°00'34.89517"N	106°34'19.60967"W	5256.03	5325.04	1459885.88	1543964.06	BRASS CAP
2_R17	34°59'24.79094"N	106°35'13.90138"W	5225.88	5295.22	1451904.04	1539424.27	ALUMINUM CAP
2_U17	34°56'49.85530"N	106°35'26.05157"W	5205.05	5274.50	1436244.27	1538360.05	ALUMINUM CAP
2_T17	34°58'14.10812"N	106°36'01.47608"W	5215.78	5285.36	1444771.77	1535441.15	ALUMINUM CAP
2_U16	34°58'49.81731"N	106°36'42.19455"W	5208.20	5278.04	1436262.68	1530021.86	ALUMINUM CAP
1_S15	34°58'12.65388"N	106°37'54.07114"W	5261.74	5331.84	1444659.27	1526070.79	BRASS CAP
1_R16	34°59'26.85453"N	106°37'18.56115"W	5236.74	5306.67	1462149.46	1529063.74	ALUMINUM CAP
1_Q14	34°59'39.74165"N	106°36'34.60201"W	5221.72	5291.45	1453438.30	1532715.67	BRASS CAP
5_Q14	35°00'43.88601"N	106°36'57.35784"W	4910.78	4981.46	1459988.68	1520855.33	ALUMINUM CAP
CC_IPC_1_6_BN_3E_4E	34°56'49.89634"N	106°34'09.67374"W	5197.77	5266.78	1436227.45	1544771.79	BRASS CAP
CLUB AZ (ABANDONED)	34°56'49.70103"N	106°38'11.82843"W	5246.95	5317.15	1436278.84	1524560.65	BRASS CAP
RTCM0000	34°59'44.92698"N	106°37'14.95428"W	5270.083				L1 ANTENNAE PHASE CENTER COORDINATE VALUES ARE BASED ON BROADCAST INFORMATION

RTCM0000 MESA DEL SOL BASE POINT LOCATED ON TOP OF ADVENT SOLAR BUILDING, OWNED BY MESA DEL SOL

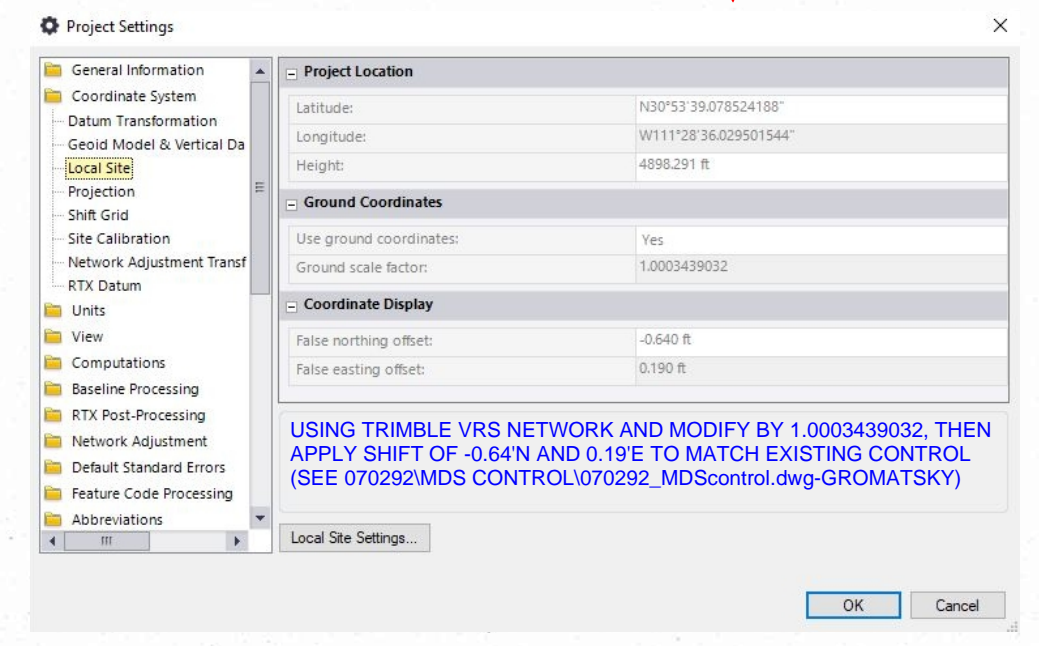
ADJUSTED COORDINATE LISTING:

POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
CP2	1449159.26	1537357.02	1537357.02	ALUMINUM CAP ON 5/8" REBAR
USGLO	1436746.44	1534691.26	1534691.26	USGLO BRASS CAP
CP35	1461962.76	1533877.15	1533877.15	ALUMINUM CAP ON 5/8" REBAR
BASE	1452611.84	1523417.52	1523417.52	ALUMINUM CAP ON 5/8" REBAR
3_016	5310.39	1457546.80	1534025.98	BRASS CAP
LSS_401	5266.39	1436722.84	154283.63	BRASS CAP
1_Q16	5072.82	1460181.21	1529813.83	BRASS CAP
2_Q17	5308.68	1459013.55	1538247.23	ALUMINUM CAP
2_R15	5305.26	1455682.74	1529561.05	ALUMINUM CAP
4_R15	5316.68	1451693.40	1526615.48	ALUMINUM CAP
1_Q18	5325.04	1459488.33	1544495.03	BRASS CAP
2_U16	5208.20	1452403.95	1539953.62	ALUMINUM CAP
2_U17	5274.50	1436738.61	1538888.93	ALUMINUM CAP
2_T17	5285.36	1445269.19	1539969.08	ALUMINUM CAP
2_U18	5278.04	1436757.06	1532548.53	ALUMINUM CAP
1_S15	5331.84	1441556.66	1526595.38	BRASS CAP
1_R16	5236.74	1462649.49	1529679.45	ALUMINUM CAP
5_Q14	4910.78	1459988.68	1520855.33	ALUMINUM CAP
CC_IPC_1_6_BN_3E_4E	5266.78	1436721.79	154248.93	BRASS CAP
CLUB AZ	5317.15	1436773.31	1525084.76	BRASS CAP
RTCM0000	5339.97	1454476.04	1523886.37	L1 ANTENNAE PHASE CENTER

GEOSPATIAL POSITIONAL ACCURACY REPORT:

POINT	HORIZONTAL POSITIONAL ACCURACY	VERTICAL POSITIONAL ACCURACY
3_016	0.059	0.037
LSS_401	0.184	0.086
2_N14	0.155	0.022
1_Q16	0.105	0.022
2_Q17	0.141	0.018
2_R15	0.061	0.050
4_R15	0.050	0.024
1_Q18	0.218	0.022
2_U17	0.119	0.010
2_U16	0.122	0.043
2_T17	0.059	0.049
2_U18	0.059	0.005
1_S15	0.050	0.011
1_R16	0.097	0.009
5_Q14	0.046	0.013
CC_IPC_1_6_BN_3E_4E	0.171	0.002
CLUB AZ	0.038	0.064
CP2	0.062	0.064
USGLO	0.062	0.060
CP35	0.064	0.069
BASE	0.063	0.062
RTCM0000	0.058	0.050

ESTIMATED NETWORK ACCURACY 0.095 0.041



**NOTE:** THE METHOD FOR ESTABLISHING HORIZONTAL POSITIONS FOR ESTABLISHED CONTROL POINTS DOES NOT MEET THE CRITERIA FOR HORIZONTAL POSITIONAL ACCURACY CLASSIFICATION ACCORDING TO THE GEOMETRIC GEODETIC ACCURACY STANDARDS AND SPECIFICATIONS FOR USING GPS RELATIVE POSITIONING TECHNIQUES, AUGUST 1, 1989. THE ESTIMATED NETWORK HORIZONTAL RMS IS 0.10 SURVEY FEET.

THE METHOD FOR ESTABLISHING VERTICAL POSITIONS FOR ESTABLISHED CONTROL POINTS DOES NOT MEET THE CRITERIA FOR VERTICAL POSITIONAL ACCURACY CLASSIFICATION ACCORDING TO THE STANDARDS AND SPECIFICATIONS FOR GEODETIC CONTROL NETWORK, SEPTEMBER 1984. THE ESTIMATED NETWORK VERTICAL RMS IS 0.10 SURVEY FEET.

THE ESTIMATED NETWORK ACCURACY OF CONTROL MONUMENTS INCLUDED IN THE PRIMARY CONTROL, USED TO CONSTRAIN THE POSITION OF ESTABLISHED CONTROL POINTS HAS A PUBLISHED ORDER OF ACCURACY OF 1ST ORDER HORIZONTAL, 2ND CLASS 1 ORDER VERTICAL AS PUBLISHED BY THE CITY OF ALBUQUERQUE.

I, ROBERT GROMATZKY, NEW MEXICO PROFESSIONAL SURVEYOR NO. 16469, DO HEREBY CERTIFY THAT THIS CONTROL SURVEY REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION BASED ON AN ACTUAL SURVEY ON THE GROUND AS DESCRIBED HEREIN, THAT I AM RESPONSIBLE FOR THIS SURVEY, AND THAT THE SURVEY AND REPORT MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

*Robert Gromatzky*  
DATE: 03-04-08

AS-BUILT INFORMATION		CONTRACTOR	DATE
BENCH MARKS		INSPECTOR'S NAME	DATE
SURVEY INFORMATION		FIELD OFFICE BY	DATE
SURVEYOR'S SEAL		VERIFICATION BY	DATE
FIELD NOTES		CORRECTED BY	DATE
NO.		DATE	DATE
BY		REMARKS	BY
NO. DATE		REVISIONS	DESIGN
DESIGNED BY		DATE 08/2008	DATE 08/2008
DRAWN BY		DATE 08/2008	DATE 08/2008
CHECKED BY		DATE 08/2008	DATE 08/2008

**Bohannon & Huston**  
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

Courtyard I 7500 Jefferson St NE Albuquerque, NM 87109-4335

**CITY OF ALBUQUERQUE**  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

MESA DEL SOL CONTROL

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

CITY PROJECT NO. ZONE MAP NO. SHEET OF