

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

June 27, 2024

Genny Donart, P.E.
Isaacson & Arfman, P.A.
128 Monroe St. N.E
Albuquerque, NM 87108

**RE: Shark Reef Interactive Fountain
ABQ Biological Park
2625 Central Ave. NW
Grading & Drainage Plan
Engineer's Stamp Date: 06/19/2024
Hydrology File: J12D004B**

Dear Ms. Donart:

PO Box 1293

Based upon the information provided in your submittal received 06/20/2024, the Grading & Drainage Plan is approved for Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

www.cabq.gov

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, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E.
Senior Engineer, Hydrology
Planning Department, Development Review Services



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: _____ Hydrology File # _____

Legal Description: _____

City Address, UPC, OR Parcel: _____

Applicant/Agent: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

Applicant/Owner: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

(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:

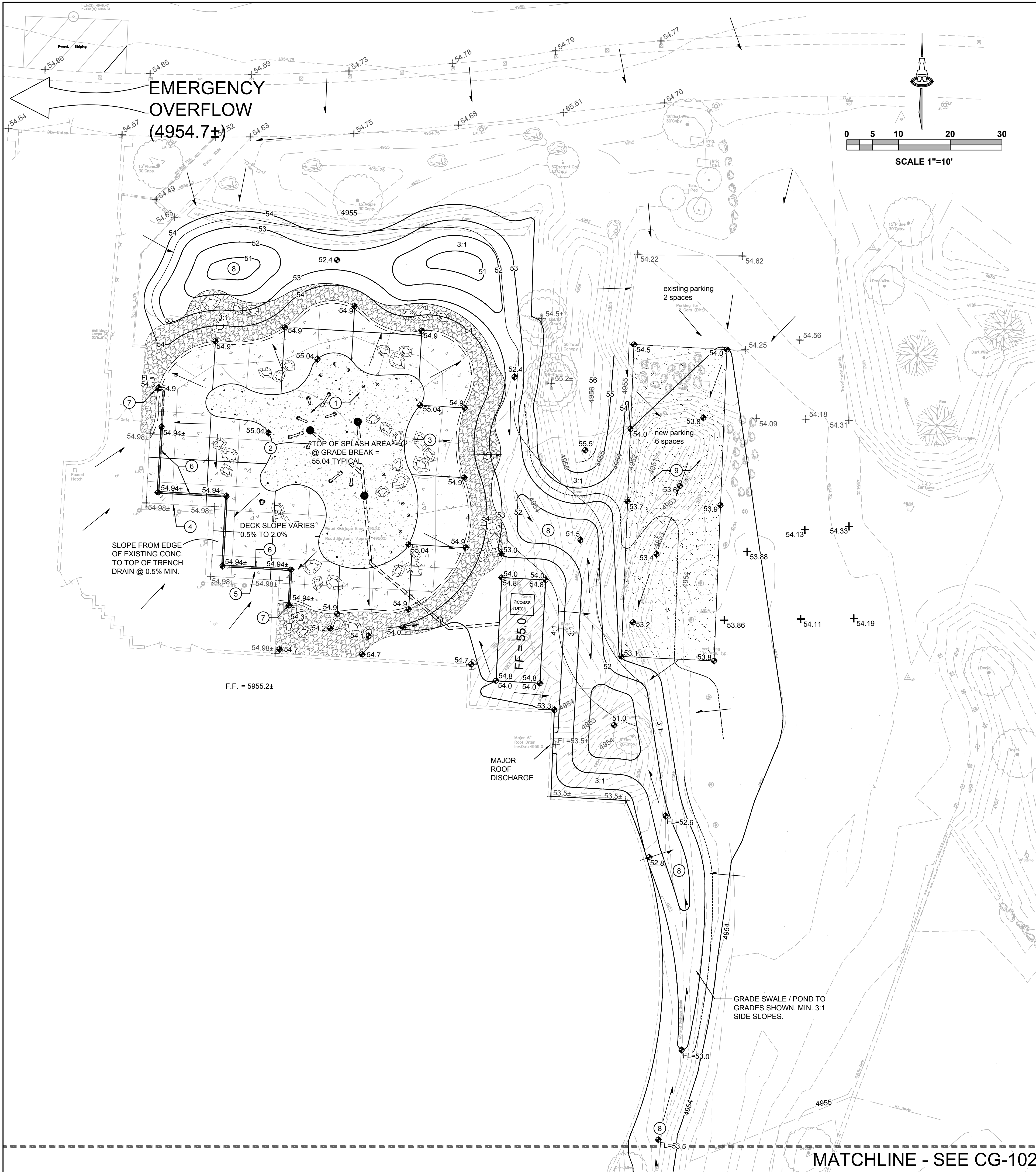
TYPE OF SUBMITTAL:

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: _____



PROJECT INFORMATION

PROPERTY: THE SITE IS A FULLY DEVELOPED PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP J-12. THE SITE IS BOUND TO THE EAST BY CENTRAL AVE. NW, AND TO THE WEST, NORTH, AND SOUTH BY ABQ BIOPARK PARKING AND SITE AMENITIES.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE A NEW WATER PLAY AREA WITH ASSOCIATED CONCRETE PAVEMENT, ADDITIONAL PVIOUS PARKING, AND LANDSCAPING.

LEGAL: LOT A, ALBUQUERQUE BIOLOGICAL PARK

ADDRESS: 2625 CENTRAL AVE. NW

OFF-SITE: NO OFF-SITE DRAINAGE AFFECTS THIS PROPOSED REDEVELOPMENT.

FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP #35001C0331H, EFF. 8/16/2012, THE SITE IS LOCATED WITHIN FLOODZONE 'X SHADED' DESIGNATED AS AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE.

DRAINAGE PLAN CONCEPT:

THE SITE IS A FULLY DEVELOPED CITY PROPERTY, BASED ON BERNALILLO COUNTY 2' CONTOURS AND ON-SITE OBSERVATION, IT APPEARS THE OVERALL BASIN TO BE RETAINED IS 2.0 ACRES (SEE EXHIBIT ON SHEET CG-102).

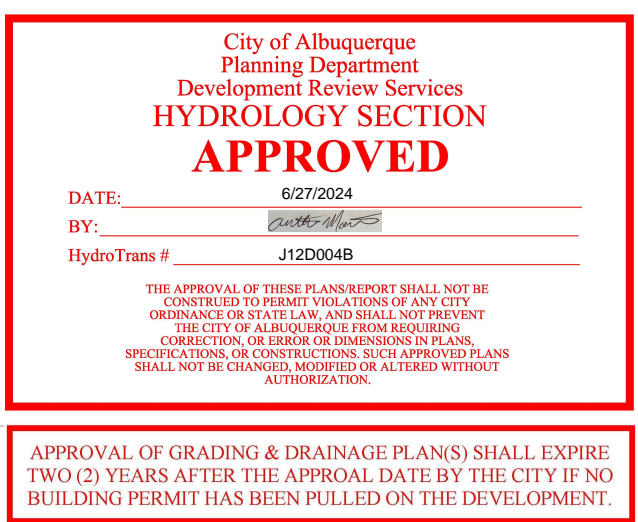
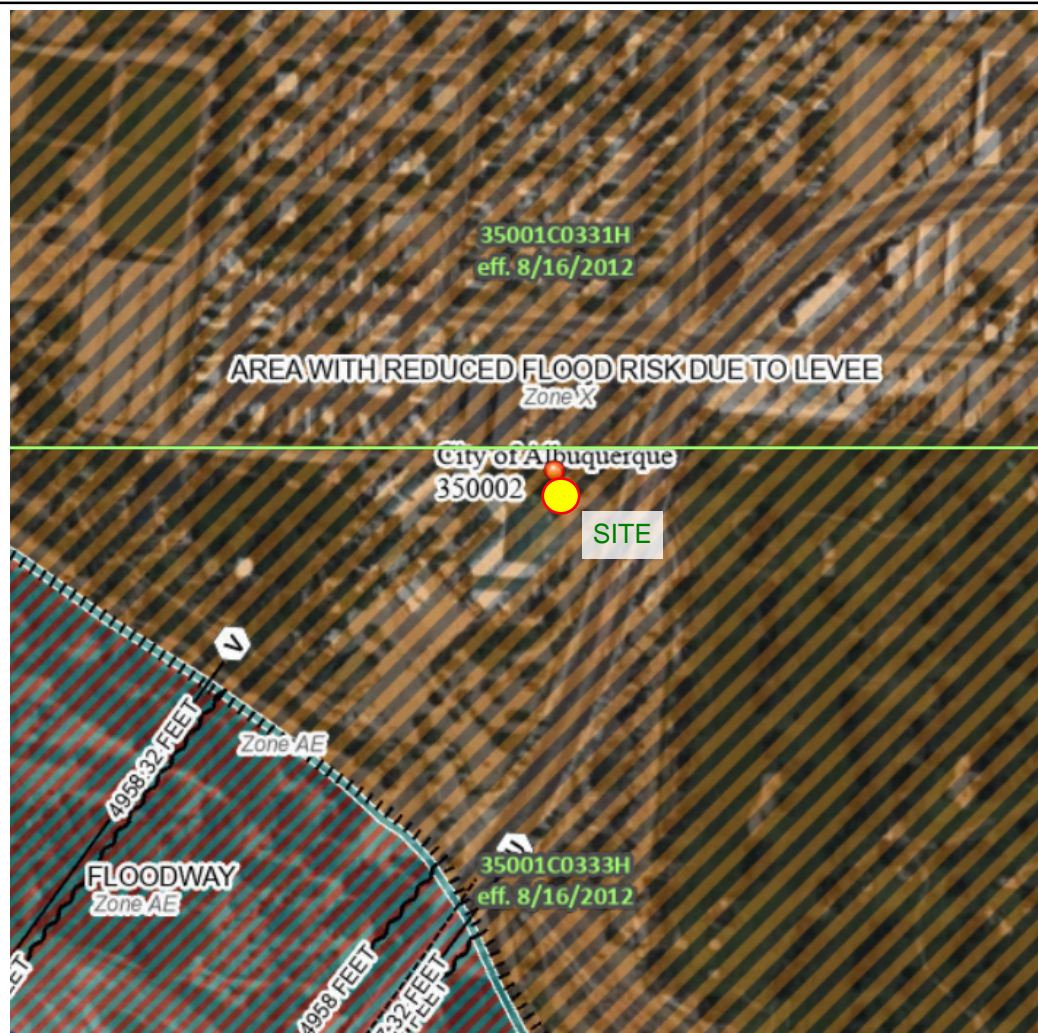
THE EXISTING BUILDING F.F. ELEVATION IS SURVEYED AT 4955.2. PER THE ORIGINAL PLANS, THE BUILDING WAS SURROUNDED BY LAGOON AND DEPRESSED STORMWATER RETENTION BASINS TO CAPTURE BASIN RUNOFF.

THE PROPOSED CONDITION AS ANALYZED PROVIDES STORMWATER RETENTION VOLUME OF 11,380 CF BASED ON A WATER SURFACE ELEVATION OF 4954.5 (0.7' BELOW FF). THE 100-YEAR 6-HOUR STORM IS CALCULATED AS 9975 CF. THE PROPOSED DESIGN PONDS WERE PRESENTED TO AND DISCUSSED WITH BIOPARK PROJECT COORDINATOR FOR CITY OF ALBUQUERQUE PARKS AND RECREATION (JESSE SCOTT).

IN THE EVENT THE PONDS FILL, THERE IS AN EMERGENCY OVERFLOW PATH AT THE NW CORNER OF THE PROPOSED DEVELOPMENT.

IN THE FUTURE, IMPROVEMENTS TO THE SURROUNDING UNDERSIZED STORM DRAIN SYSTEM MAY ELIMINATE OR PROVIDE EMERGENCY OUTFALL FOR THE RETAINING IN THIS AREA. UNTIL THAT TIME, WE RECOMMEND NO ADDITIONAL EARTHWORK IN THIS AREA THAT MAY REDUCE THE AVAILABLE RETENTION VOLUME.

F.I.R.M. 35001C0333H EFF 8/16/2012



APPROVAL OF GRADING & DRAINAGE PLANS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

KEYED NOTES

THESE NOTES ARE REFERENCED ON SHEETS CG101 & CG102. NOT ALL NOTES ARE USED ON EACH SHEET.

- SEE WATER FEATURE PLANS FOR GRADES WITHIN WATER FEATURE AREA. TYPICAL.
- WATER FEATURE AREA LEVEL AT BORDER. BEGIN SURFACE SLOPING TO TRENCH DRAIN.
- SLOPE WITHIN WATER FEATURE APRON SHALL VARY BETWEEN 0.5% (MIN.) AND 1.8% (MAX.) TO PROVIDE ADA COMPLIANT SLOPE TO TRENCH DRAIN. SLOPE SHALL VARY DUE TO THE VARIED DISTANCE OF THE AMOEBA SHAPED WATER FEATURE.
- PROVIDE SMOOTH TRANSITION FROM EDGE OF EXISTING CONCRETE PATIO.
- SLOPE BETWEEN EXISTING PATIO AND TRENCH DRAIN SHALL BE 0.5% (MIN.) AND 1.8% (MAX.).
- NDS DURA SLOPE PRE-SLOPED CHANNEL DRAIN WITH LEVEL RIM. COORDINATE DIRECTLY WITH NDS DESIGN (888-825-4716) FOR FINAL DESIGN AND PARTS LIST.
- EXTEND TRENCH DRAIN DISCHARGE PIPE TO RELEASE TO LANDSCAPE. PROVIDE 3" DIA. X 8" THICK ANGULAR ROCK EROSION CONTROL (4" AVG. DIA.). COORDINATE WITH LANDSCAPE ARCHITECT.
- NEW VARYING DEPTH STORMWATER RETENTION POND SHALL BE STAKED TO ACHIEVE REQUIRED VOLUME. GRADES SHOWN REFLECT FINAL SURFACE MATERIAL. CONTRACTOR SHALL GRADE TO SUB-GRADE BASED ON SURFACE MATERIAL THICKNESS. SUFFICIENT AS-BUILT SPOTS WILL BE REQUIRED TO CONFIRM STORMWATER PONDING VOLUMES AS PART OF AS-BUILT CERTIFICATION. PONDING WHICH DOES NOT PROVIDE THE REQUIRED VOLUME WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- NEW GRAVEL PARKING AREA AT ELEVATIONS SHOWN.

LEGEND

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- FLOW DIRECTION
- EROSION PROTECTION
- MATCHLINE - SEE KEY MAP

Isaacson & Arfman, Inc.
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128 Monroe Street NE
Albuquerque, NM 87108
505-268-8828 | www.iacivil.com

pland
COLLABORATIVE
plandcollab.com 505 268 2266



CITY OF ALBUQUERQUE
STRATEGIC PLANNING AND DESIGN
PARKS AND RECREATION DEPARTMENT

SHARK REEF INTERACTIVE FOUNTAIN

SITE GRADING & DRAINAGE PLAN

Design Review Committee

City Engineer Approval

Mo./Day/Yr.

Mo./Day/Yr.

City Project No.
634782

Zone Map No.
J-12

Sheet

CG-101

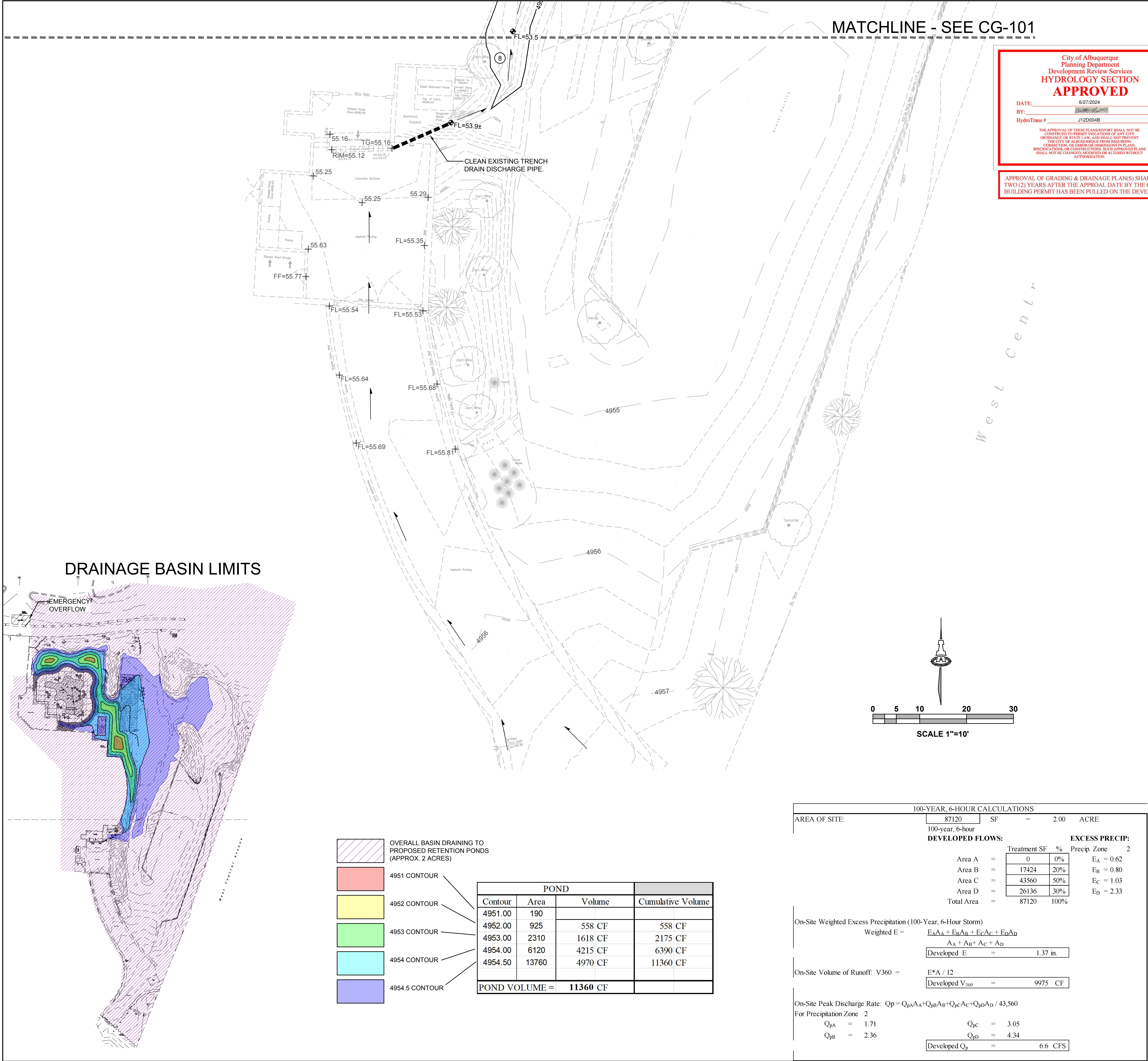
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ARCHITECTURAL SEAL		REVISIONS	
CONTRACTOR	DATE	Elevation	Datum	NO.	BY	NO.	BY	NO.	BY
INSPECTOR'S ACCEPTANCE BY	DATE	AGRS Bench Mark Reference:	NAVD 1988	Rex J. Vogler					
VERIFICATION BY	DATE	Station 14 J12 Elev.: 4965.385		NM PS#10466					
DRAWINGS BY	DATE	CoA alum.disc at the east end of the							
MICRO-FILM INFORMATION	DATE	Central Ave. bridge on the south side.							
RECORDED BY	DATE	Add 4900' to spot elevs and point data.							

100% CD FOR CONSTRUCTION
DATE: 06/12/2024

SHARK REEF INTERACTIVE FOUNTAIN

PROJECT#:
634782

RECORD DRAWINGS
DATE:



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LEGEND

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- FLOW DIRECTION
- EROSION PROTECTION
- MATCHLINE - SEE KEY MAP

AS-BUILT INFORMATION

CONTRACTOR	DATE

BENCH MARKS

Elevation	Datum	NAVD	1988

SURVEY INFORMATION

NO.	BY	DATE

ARCHITECTURAL SEAL

NEW MEXICO PROFESSIONAL ENGINEER
15088
06/19/2024

REVISIONS

NO.	DATE	REMARKS	BY

DESIGNED BY: BUB

DATE: 06/12/2024

DRAWN BY: BUB/IA

DATE: 06/12/2024

CHECKED BY: IA

DATE: 06/12/2024

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PARKS AND RECREATION DEPARTMENT

SHARK REEF INTERACTIVE FOUNTAIN

SITE GRADING & DRAINAGE PLAN

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

City Project No.	Zone Map No.	Sheet
634782	J-12	CG-102

100% CD FOR CONSTRUCTION
DATE: 06/12/2024

SHARK REEF INTERACTIVE FOUNTAIN
PROJECT#: 634782

RECORD DRAWINGS
DATE: