

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

December 21, 2023

Scott Eddings, PE
Huitt-Zollers Inc.
333 Rio Rancho Dr NE, Suite 101
Rio Rancho, NM 87124

**RE: North Domingo Baca Aquatic Center
Grading & Drainage Plans
Engineer's Stamp Date: 12/14/23 & 09/18/23
Hydrology File: C19D043E**

Dear Mr. Eddings:

Based upon the information provided in your submittal received 12/19/2023, the Grading & Drainage Plans **are** approved for Building Permit and Grading Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please submit a LOMR for approval to PLNDRS@cabq.gov. Once this is approved by Hydrology and Hydrology has signed the concurrence on MT-2, submit approved LOMR to FEMA.

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 (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department

Floodplain Development Permit

Project Title North Domingo Baca Park Splash Pad

Project Location (Major Cross Streets/Arroyo or address)

North Domingo Baca Park, 8301 Wyoming Blvd NE

Property Owner: (Note: If applying for a Building Permit, the "Company" or "Owner" name on this form must match the "Owner" name on the Building Permit.)

Company Name or Owner Name: City of Albuquerque - Aquatics

Responsible Person: (Note: Name below may be the same as Owner Name above if there is no Company Name)

Name: Huitt - Zollars, Inc.

Phone Number: 505-235-7211

E-mail: seddings@huitt-zollars.com

Site Contact: (if different than Property Owner info above.)

Name: Scott Eddings

Phone: 505-235-7211

e-mail: seddings@huitt-zollars.com

For City personnel use only:

City Personnel Signature: _____ Date _____

Description of Work _____

Check all that apply:

☐ Final Elevation Certificate required prior to Certificate of Occupancy

☐ No Building Permits will be allowed until FEMA issues a LOMR removing the SFHA.

☐ A LOMR must be obtained from FEMA prior to release of Financial Guarantees.

Floodplain Development Permit Application

Planning Dept., City of Albuquerque

Section 1: General Provisions (Applicant to read and sign)

1. No work of any kind may start in a Special Flood Hazard Area, SFHA, until a permit is issued.
2. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal regulatory requirements.
3. Applicant hereby gives consent to the Floodplain Administrator and his/her representative to make reasonable inspections required to verify compliance.
4. Applicant must provide a Critical Habitat for Threatened & Endangered Species report prior to any work in a SFHA.
5. Applicant must provide the Base Flood Elevation, BFE, and must provide engineering calculations demonstrating that the development will not increase the BFE or result in increased flood risk on any neighboring property.
6. If this application is for a building the floodplain must be removed by first constructing any required storm drain and/or channel modifications and second acquiring a Letter of Map Revision, LOMR, from FEMA before a building permit will be issued. If storm drain and channel modifications are not involved then a draft Elevation Certificate must be submitted prior to Building Permit and a Final Elevation Certificate must be submitted prior to Certificate of Occupancy.
7. A Conditional Letter of Map Revision, CLOMR, is required prior to any work in the FLOODWAY, if applicable.
8. The applicant certifies that all statements herein and in attachments to this application are, to the best of my knowledge, true and accurate.

Applicant Signature Scott Eddings Date 8/8/23

Applicant Printed Name Scott Eddings Phone #: 505-235-7211

Owner Signature _____ Date _____

Owner Printed Name _____ Phone #: _____

Applicant is (check one): Owner _____ Builder _____ Engineer/Architect X

Section 2: Proposed Development in Special Flood Hazard Area (to be completed by Applicant)

Project address/Legal Disc/Location: _____

North Domingo Baca Park
8321 Wyoming Blvd. NE

Section 2 (Cont.) - Description of Work in Special Flood Hazard Area (SFHA):

A. Building Development and Building Type

<u>ACTIVITY</u>	<u>STRUCTURE TYPE</u>
☒ New Building	☐ Residential (1-4 Family)
☐ Addition	☐ Residential (More than 4 Family)
☐ Alteration	☒ Non Residential (Flood-proofing? ☐ Yes)
☐ Relocation	☐ Combined Use (Residential & Commercial)
☐ Demolition	☐ Manufactured Home (In Mobile Home Park? ☐ Yes)
☐ Replacement	

If an addition or alteration:

Estimated Cost of Project \$ _____

Estimated Value of structure before addition/alteration. \$ _____

Percent of value (new construction /existing value) _____ %

B. Other Development Activities

☒ Clearing ☒ Grading ☐ Utilities ☐ Paving

☐ Watercourse Alteration (Bridge or Channel Modification)

☐ Drainage Improvements (Storm drain or culverts)

☐ Road, Street or Bridge Construction

☐ Subdivision

☐ Walls or Fences

☐ Storage of Materials/Equipment for more than a year. (Materials Volume (cu. Ft.) _____)

Other (Please Specify) _____

Is there a Grading & Drainage Plan associated with this work? Yes ☒ No ☐

Drainage file Number: C19D043A

Section 3: Floodplain Determination (Completed by the Floodplain Administrator)

____ The proposed development is located on FIRM Panel: _____

____ The proposed development is located in Zone X and NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED.

____ A portion of the proposed development is located in a SFHA but not any buildings so an approved G&D Plan is required (Engineer's Stamp Date _____) prior to issuance of a Floodplain Development Permit and no Building Permit will be issued for this construction.

____ A portion of the proposed Building is located in a SFHA but the project does not include any storm drain improvements and/or channel modifications so:

1. Approved G&D Plan is required (Engineer's Stamp Date _____) prior to issuance of a Floodplain Development Permit,
2. Draft Elevation Certificate (Date _____) is required prior to issuance of a Building Permit, and
3. Final Elevation Certificate and Engineer's Certification is required prior to Certificate of Occupancy.

____ A portion of the proposed Building is located in a SFHA and the project includes storm drain improvements and/or channel modifications that will change the floodplain location so

1. An Approved Grading and Drainage Plan is required (Engineer's Stamp Date _____) prior to issuing a Flood Plain Development Permit and a Grading Permit and/or a Work Order.
2. The improvements must be constructed and an Approved Engineer's Certification (Engineer's Stamp Date _____) and an Approved LOMR Request (Engineer's Stamp Date _____) must be approved by Hydrology prior to approval of the LOMR application to FEMA.
3. The Floodplain must be removed by a LOMR from FEMA (Date _____) prior to issuance of a Building Permit.

____ A portion of the proposed development is located in a FLOODWAY so:

1. Approved G&D Plan (Engineer's Stamp Date _____) and an Approved CLOMR Request (Date _____) is required prior to approval of the application to FEMA, and
2. CLOMR from FEMA (Date _____) is required prior to issuance of a Floodplain Development Permit, a Grading Permit, and/or a Work Order.
3. The improvements must be constructed and an Approved Engineer's Certification (Engineer's Stamp Date _____) and an Approved LOMR Request (Engineer's Stamp Date _____) must be approved by Hydrology prior to approval of the LOMR application to FEMA (Date _____).
4. The Floodplain must be removed by a LOMR from FEMA (Date _____) prior to issuance of a Building Permit.

Drainage File Number: _____

Floodplain Permit Number: _____

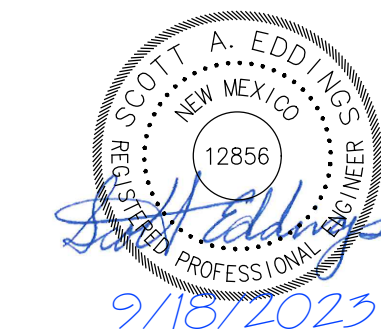
Signed: _____

Date: _____

Printed Name: _____



6501 Americas Parkway NE, Suite 830
Albuquerque, New Mexico 87110-5375
505.883.8114
www.huitt-zollars.com



ONE
ALBUQUE parks & recreation
BOUE

PHASE 1

7521 Carmel Ave. NE
Albuquerque, NM 87113

City of Albuquerque
1801 4th St. NW. Albuquerque, NM. 87102

CITY PROJECT NO.: 705286

PROJECT NO: R312254.01

PROJECT NO.:	RSIZE
DRAWN BY:	STAFF

REVIEWED BY: STAFF

APPROVED BY: STAFF

APPROVED BY: _____

 ISSUE DRAINING LOG

[illegible]

=====	EXISTING CURB & GUTTER
-----X-----	EXISTING FENCE
-----SD-----	EXISTING STORM DRAIN
⌒	EXISTING LIGHT POLE
⌒	EXISTING POWER POLE
⌒	EXISTING GUY WIRE
⌒	EXISTING TELE. PED
⌒ ELEC BOX	EXISTING ELEC. BOX
⌒ COMM BOX	EXISTING COMM. BOX
⌒ BOLLARD	EXISTING BOLLARD
⌒	EXISTING CLEANOUT
⌒ GAS	EXISTING GAS METER
⌒	EXISTING WATER METER
⌒	EXISTING MANHOLE
⌒	EXISTING SIGN
⌒	EXISTING TREE
-----W-----	EXISTING WATERLINE

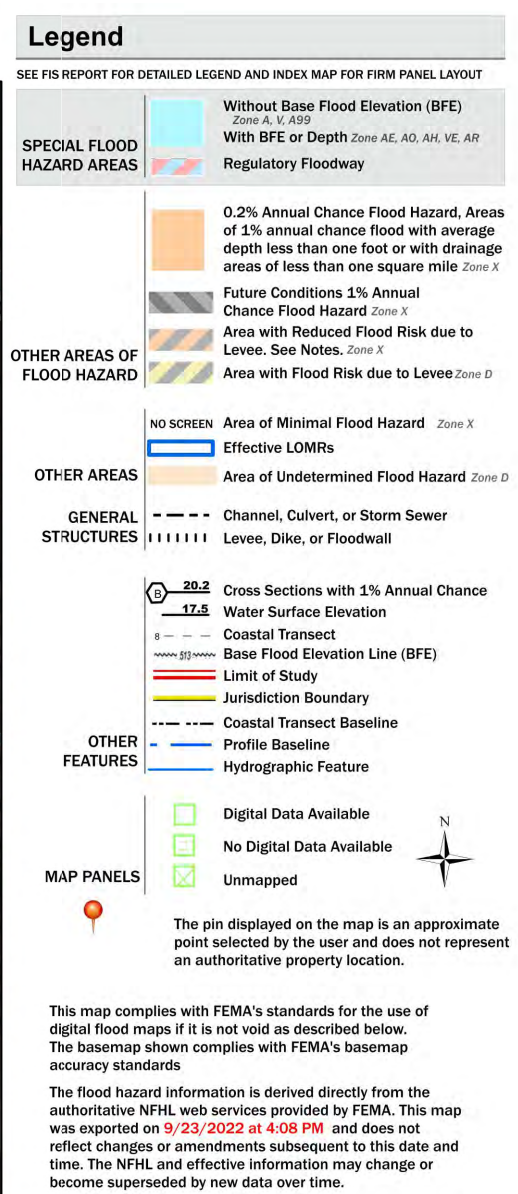
NOTE: FOR SPECIFICATION INFORMATION, REFER TO
CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS
FOR PUBLIC WORKS

C-101

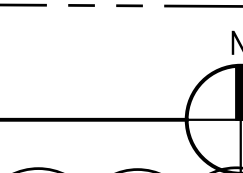
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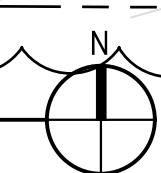
106°34'17"W 33°18'32"N



NTS



A1



(A3)

12

A2

```
* START                               TIME=0.0 CODE=0 LINES=0
*#                                     NOB AQUATIC CENTER AUGUST 2023 HIZ NO. R31254A.01
*#
*# 300 YEAR RAINFALL RATE=1.80 INCHES PER HOUR END TIME=7.0 6.000000 HOURS
RAINFALL TYPE=1-1 RAIN QUAR=0.0 RAIN INT=1.80
RAIN SIXX=2.42 RAIN DAY=2.80 DT=0.8
*#
*# 6-HOUR RAINFALL DIST.- BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREA
DT = 0.600000 HOURS END TIME=7.0 6.000000 HOURS
*#
*# ALL BASINS FOR URBAN AQUATIC CENTER
*#
*# BASIN 100
COMPUTE MW HYD ID=10 HW=NO-AQUA-10Q DA=0.0004 SQ MI
PER DAY=0.0 PEX B=0.0 PER CUB M @ 1.80 PER DRY-DAY=0.
TP=-1333 HR MASSRAIN=1-1
K = 0.782549HR TP = 0.133330HR K/TP RATIO = 0.545800 SHAPE CONC
UNIT PACE = 1.4213 CFS UNIT PACE = 0.9900 B = 526.28 INCHES
AREA = 0.000636 SQ MI IA = 0.10000 INCHES IN = 0.0000 THICKNESS
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION METHOD INFO - DT = 0
K = 0.105077HR TP = 0.133330HR K/TP RATIO = 0.788276 SHAPE CONC
UNIT PACE = 0.1127 CFS UNIT PACE = 0.8880 B = 390.48 INCHES
AREA = 0.000049 SQ MI IA = 0.10000 INCHES IN = 0.0000 THICKNESS
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION METHOD INFO - DT = 0
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*****
** BASIN 20K
**
** COMPUTE PKN HYD
**
** ID=2R   HYD NO=AQUA, 20R   DA=0.0011 SQ MI
** PER A=0.0 PER B=0.0 PER C=0.0 PER D=0.0
**
**          MASSRAIN=1.0
**
**
** K = 0.072649HR   TP = 0.133308HR   K/TP RATIO = 0.545090   SHAPE CONSTANT, N = 7.106422
** UNIT PEAK = 3.9086   CFS   UNIT VOLUME = 0.9967   B = 526.28   P600 = 1.8000
** AREA = 0.000905 SQ MI   IA = 0.100000 FEET   INF = 0.040000 INCHES PER HOUR
**
** RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

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*****
* S BASIN 3NO
COMPUTE NP HYD ID=38 HYD NO=AQUA.308 CD=0.80089 SQ MI
PER A=0.0 PER B=0.0 PER D=0.0 PER E=0.0
TRAP= .1333 HR MSTRAN=1.0
K = 0.072649HR TPO = 0.133380HR K/TPT RATIO = 0.545000 SHAPE CONSTANT, N = 7.106422
UNIT PEAK = 3.19759 CFS UNIT VOLUME = 0.9959 B = 526.28 P60 = 1.8000
AREA = 0.080819 SQ MI EA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - D1 = 0.065000

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* S= BASTIN 4000
COMPUTE NM HYD
ID=48 HYD NO=AQUA.480 DA=0.0017 Q3 MI
PER AO=0 PER BO=0 PER C=0 PER D=0
TP= .1333 H=1 MASSRAT=1
K = 0.972649HR K/P 0.133368HR K/TP D=0.054500R SHAPE CONSTANT, N = 7.10642E
UNIT PEAK = 6.0405 CFS UNIT VOLUME = 0.9979 B = 526.28 P60 = 1.8000
AREA = 0.001530 MI3 IA = 0.18000 INCHES INF = 0.04800 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT 0.050000

```

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*****
*% BASIN 500
*****
COMPUTE NM HYD      ID=50  HYD NM-AQUA.500  DA=0.0027 SQ MI
                    PER A=0.0 PER B=0.0 PER C=10.0 PER D=90.0
                    TP=1.1333 HR  MACRASA=0.000000
*****
K = 0.0726549HR  A = 0.1333333HR  K/TP RATIO = 0.545800  SHAPE CONSTANT, N = 7.10642E
UNIT PEAK = 9.5938  CFS  UNIT VOLUME = 0.9587  B = 526.28  P60 = 1.8000
AREA = 0.002430 SQ MI  IA = 0.10000 INCHES  INF = 0.004000 INCHES PER HOUR
SURFACE COMPLETED BY HYDRAULIC ATTRACTION/INSTRUCTION NUMBER METHOD 01 01 000000

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      PEAR DISCHARGE RATE =      7.58 CFS AT      1.523 FEET BASIN AREA = 0.0627 SQ. FT.

*5-----
*5 ADD BASINS 100, 200, 300, 400, 500

      ADD HYD                      ID=75 HYD=SUM ID=10 ID1=20
      ADD HYD                      ID=75 HYD=SUM ID=10 ID1=30
      ADD HYD                      ID=75 HYD=SUM ID=10 ID1=40
      ADD HYD                      ID=75 HYD=SUM ID=10 ID1=50
      ADD HYD                      ID=75 HYD=SUM ID=10 ID1=60
      ADD HYD                      ID=75 HYD=SUM ID=10 ID1=75 ID1=50
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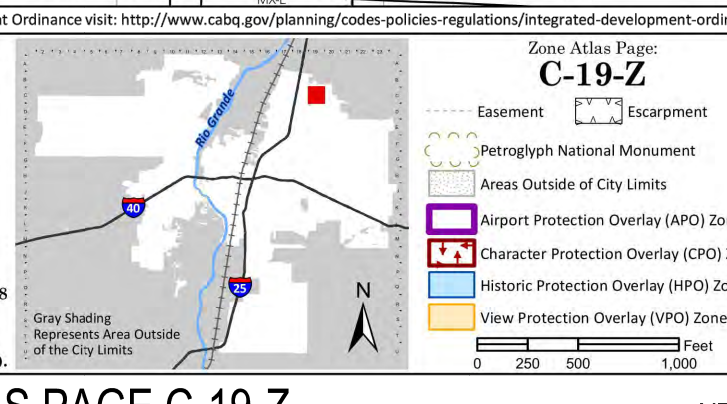
K = 0.118650HR  TP = 0.133030HR  K/TD RATIO = 0.890100  SHAPE CONSTANT, N = 3.984393
UNIT PEAK = 18.065  CFS  UNIT VOLUME = 0.9992  B = 354.13  PGB = 1.8000
AREA = 0.0060800 SQ MT  JA = 0.423000 INCH  INF = 0.040000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION METHOD - DT = 0.005000

PRINT HYD ID=50 CODE=1

                                HYDROGRAPH FROM AREA AQUA.500

RUNOFF VOLUME = 0.93602 INCHES  = 0.3395 ACRE-FEET
PEAK DISCHARGE RATE = 11.91 CFS  AT 1.540 HOURS  BASIN AREA = 0.0068 SQ. MT.

```



IDU ZONE ATLAS PAGE C-19-Z NT

LEGEND

THIS SITE IS UNDER THE NORTH DOMINGO BACA MASTER PLAN AND DISCHARGES TO THE MCKINNEY DAM. STORM WATER FACILITIES ARE EXISTING AND SIZED FOR STORMWATER FLOWS ATTRIBUTABLE FROM THIS PROJECT. EXISTING CONDITIONS SITE DISCHARGE RATE IS 11.91 CFS.

PER THE FEMA MAP NUMBER 35001C041G DATED SEPTEMBER 26, 2008
SHOWS THE SITE IS LOCATED WITHIN ZONE AO WITH A 1' DEPTH
INNUNDATION.

DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE NORTH DOMINGO
BACA MASTER PLAN.

PROPOSED CONDITION SITE DISCHARGE RATE IS 18.63 CFS OR APPROXIMATELY 6.72 CFS ABOVE EXISTING CONDITION DISCHARGE RATE. THE ADDITIONAL RUNOFF WILL ROUTE THROUGH THE EXISTING CULVERT AND DISCHARGE INTO MCKINNEY DAM.

STORM WATER QUALITY

WATER QUALITY REQUIREMENTS TREATING THE PAVED AREAS WILL REQUIRE A TOTAL OF 5396 CF BEING TREATED THROUGH THE DRAINAGE FACILITIES. THE PROJECT ROUTES THE ENTIRE RUNOFF THROUGH THE CULVERT LEADING TO THE MCKINNEY DAM. THE ROUTING OF THE RUNOFF THROUGH THE MCKINNEY DAM QUALIFIES THE RUNOFF AS FULLY TREATED.

NOTE: FOR SPECIFICATION INFORMATION, REFER TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS

Call before you dig.

6501 Americas Parkway NE, Suite 830
Albuquerque, New Mexico 87110-5311
505.883.8114
www.huitt-zollars.com



7521 Carmel Ave. NE
 Albuquerque, NM 87113

CITY PROJECT NO.: **705286**

PROJECT NO.: R312254.01

DRAWN BY:	STAFF
REVIEWED BY:	STAFF
APPROVED BY:	STAFF
ISSUE DRAWING LOG:	

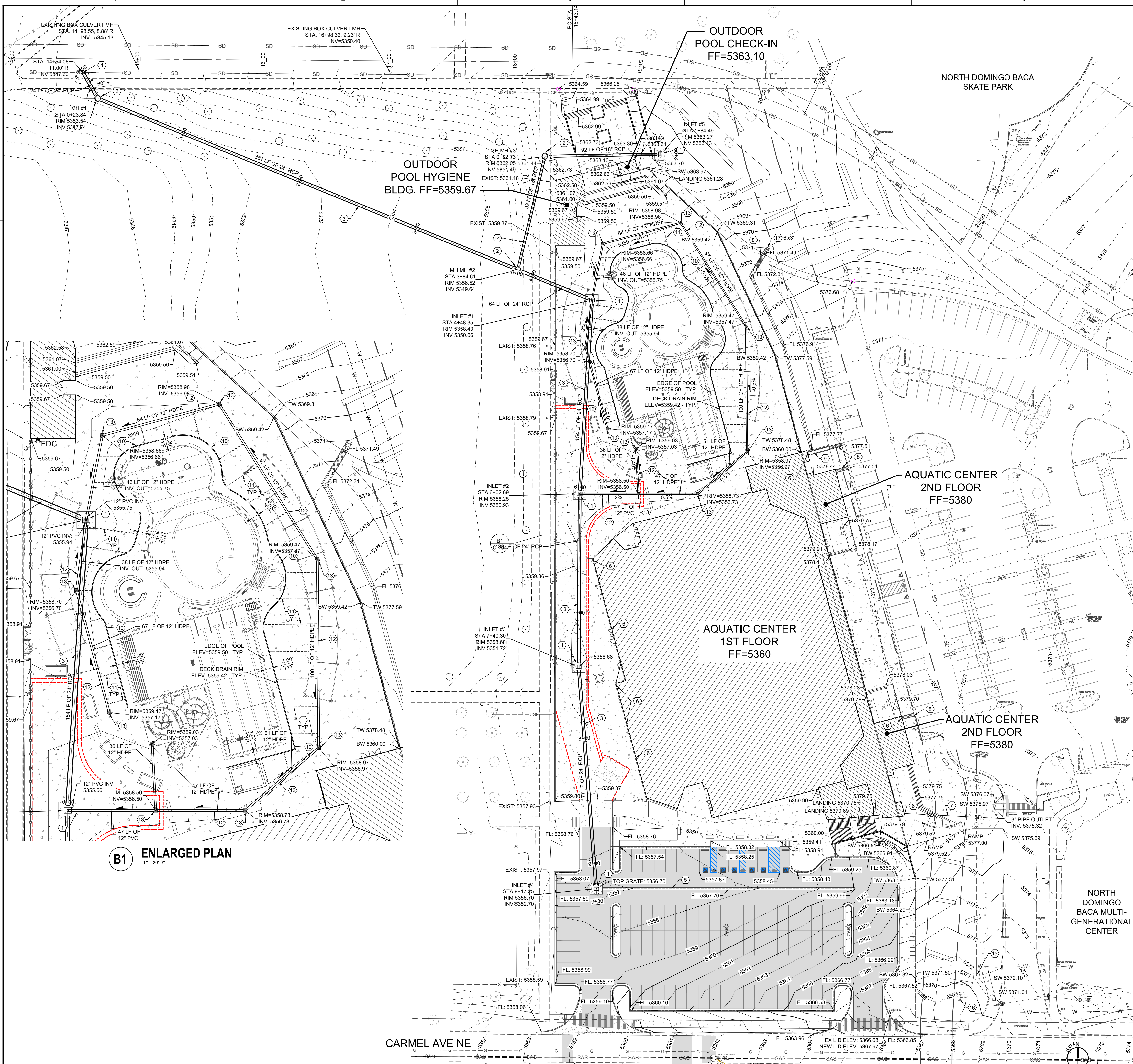
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4	08/21/2023	PHASE 1 95% CD'S
3	07/07/2023	PHASE 0 BID DOCUMENTS
2	12/09/2022	DESIGN DEVELOPMENT
1	09/09/2022	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION

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Plotted: 10/30/2023 8:14:46 AM By: Suren, Usha
\\nms\shared\cadd\p9\12254\01 - CDA\AQB Aquatic Center\10 CADD & BIM\10 - AutoCAD\Sheet\12254-01_AQUATIC
Last Saved: 10/30/2023 8:06:09 AM Itinerary

A1 GRADING PLAN
1" = 30'-0"

B1 ENLARGED PLAN
1" = 20'-0"



GENERAL SHEET NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND OR CONCEALED UTILITIES IN ADVANCE OF ANY CONSTRUCTION.
- IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE HERSELF / HIMSELF WITH ALL THE EXISTING CONDITIONS THAT COULD AFFECT THE INSTALLATION OF ANY WORK SET FORTH IN THESE PLANS PRIOR TO SUBMITTING BID.
- SEE SHEET C-105 FOR STORM DRAIN PIPE PROFILES
- SEE SHEET C-106 FOR ENLARGED GRADING DETAILS

SHEET KEYNOTES

- TYPE "D" INLET PER DETAIL A5, SHEET C-502.
- 4" DIA. STORM MANHOLE TYPE "C" PER CITY OF ALBUQUERQUE STD DWG 2208. SEE DETAIL A2, SHEET C-502.
- 24" RCP STORM PIPE - FOR PROFILE SEE SHEET C-105
- CONNECT NEW 24" RCP STORM PIPE TO EXISTING BOX CULVERT PER DETAIL C4, SHEET C-502.
- "ALLEY" GUTTER PER CITY OF ALBUQUERQUE STD DWG 2415B. SEE DETAIL C5, SHEET C-501.
- 6" ROOF DRAIN OUTLET LOCATION - SEE PLUMBING
- 3" ROOF DRAIN UNDER CONC. SIDEWALK, OUTLET THROUGH CURB
- 24" WIDE SIDEWALK CULVERT PER CITY OF ALBUQUERQUE STD DWG 2236. SEE DETAIL A1, SHEET C-501.
- CONCRETE RUNDOWN AT ROOF DRAIN OUTLET. SEE DETAIL B5, SHEET C-503
- "LAWSON AQUATICS DRAIN THE DECK SYSTEM" OR APPROVED EQUAL. RIM ELEVATION = 5359.42 TYP.
- 3" PVC WITH LONG SWEEP FITTINGS PER CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS
- 12" HDPE WITH LONG SWEEP FITTINGS PER CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS
- 24"x24" NDS CATCH BASIN PER DETAIL C5, SHEET C-502
- 18" RCP STORM PIPE - FOR PROFILE SEE SHEET C-105
- ADJUST EXISTING STORM MANHOLE RIM TO NEW ELEV. 5371.41
- EXISTING ENTRANCE SIGN TO REMAIN UNDISTURBED
- COBBLE PAD PER DETAIL D1, SHEET C-501. SIZE SHOWN ON PLAN

LEGEND

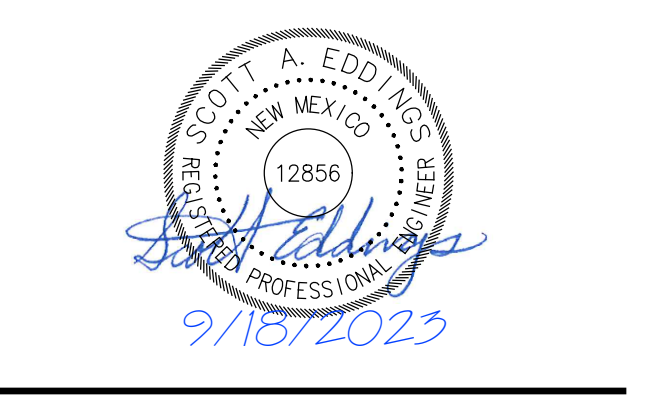
- CURB & GUTTER
- CONC. SIDEWALK
- ASPHALT PAVEMENT
- BUILDING

EXISTING SITE LEGEND

- EXISTING CURB & GUTTER
- EXISTING FENCE
- EXISTING STORM DRAIN
- EXISTING OVERHEAD ELEC.
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING TELE. PED
- EXISTING ELEC. BOX
- EXISTING COMM. BOX
- EXISTING BOLLARD
- EXISTING CLEANOUT
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING MANHOLE
- EXISTING STOP SIGN

NOTE: FOR SPECIFICATION INFORMATION, REFER TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS

HUITT ZOLLARS
6501 Americas Parkway NE, Suite 830
Albuquerque, New Mexico 87110-5375
505.883.8114
www.huitt-zollars.com



NORTH DOMINGO BACA AQUATIC CENTER
PHASE 1

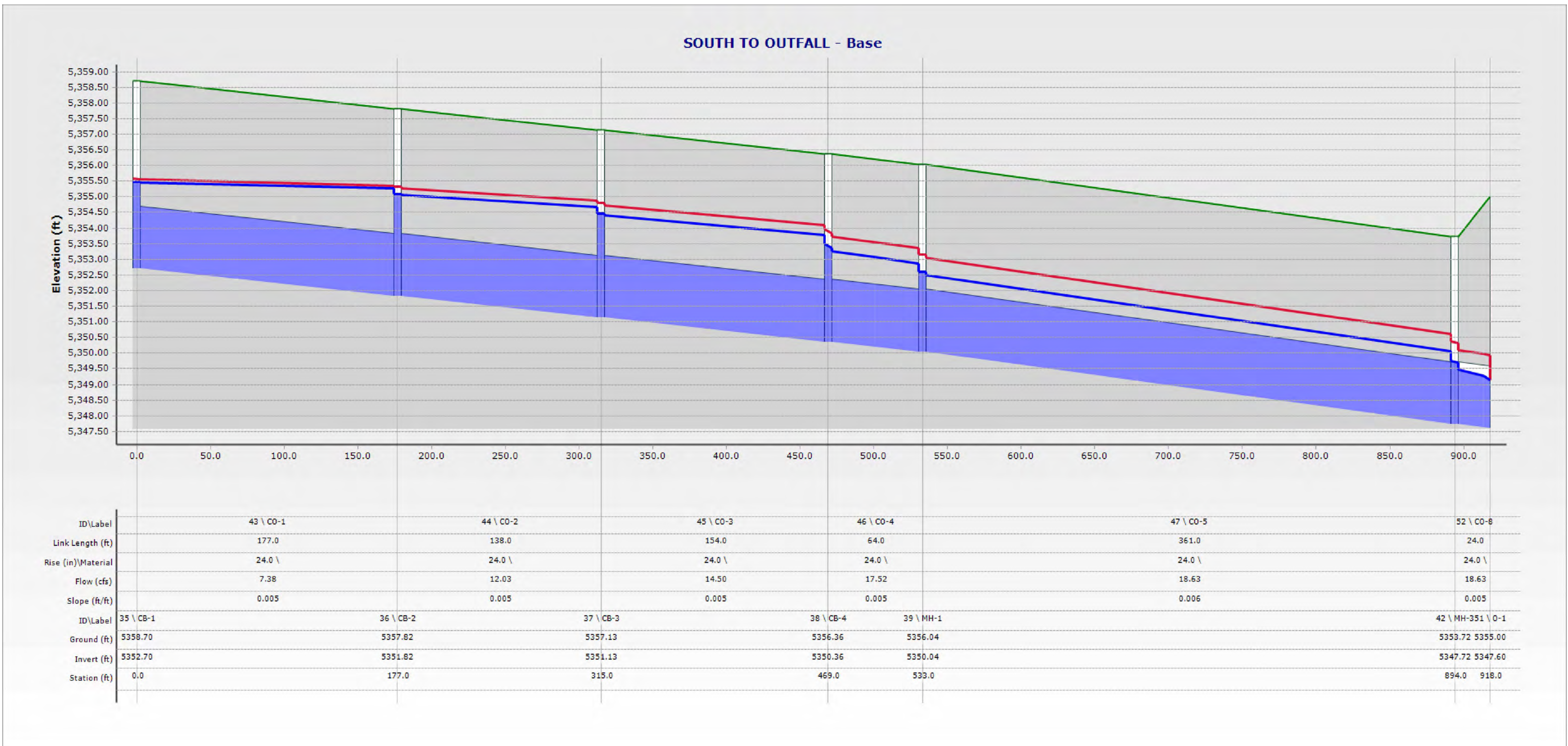
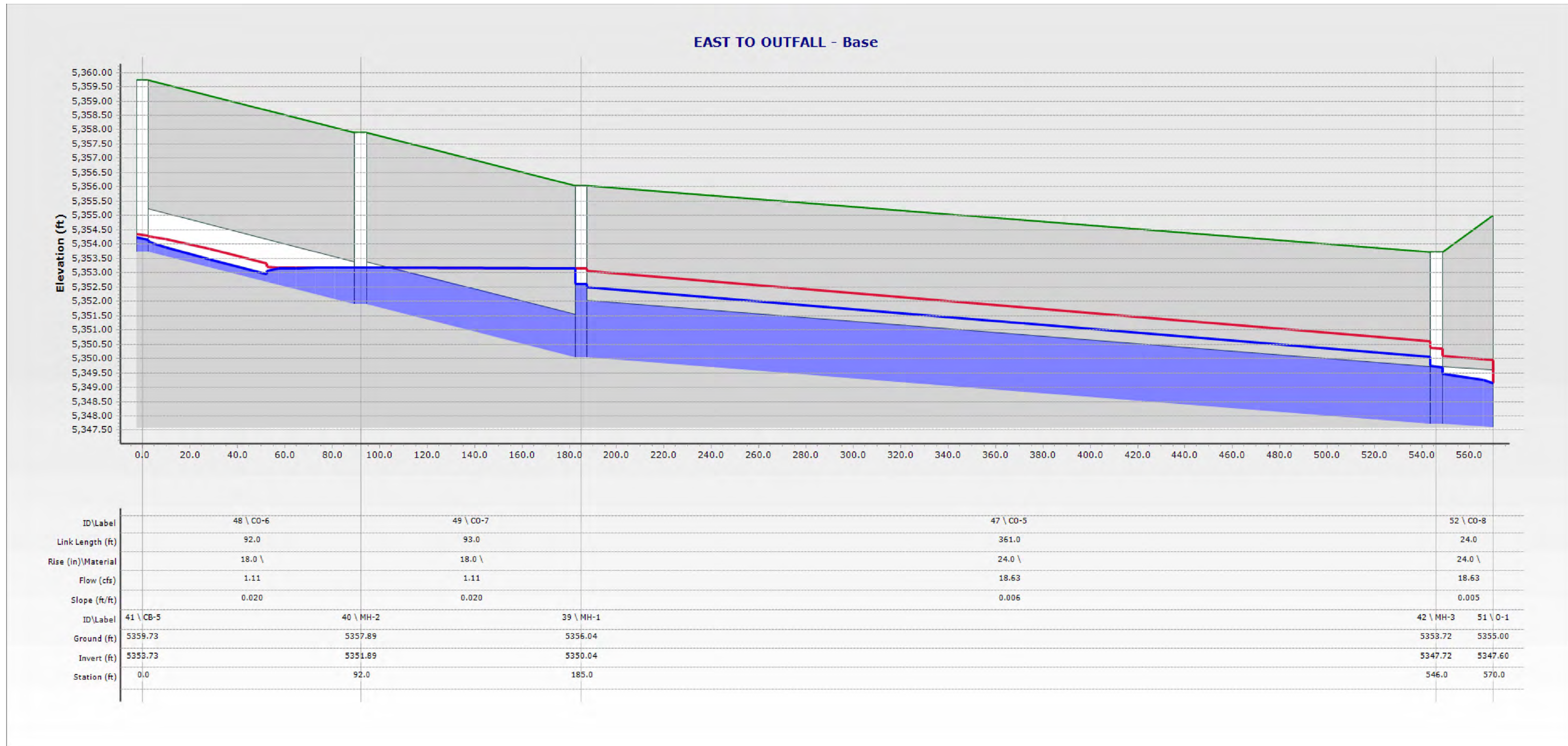
7521 Carmel Ave. NE
Albuquerque, NM 87113

City of Albuquerque
1801 4th St. NW, Albuquerque, NM, 87102
CITY PROJECT NO.: **705286**
PROJECT NO.: R312254.01
DRAWN BY: STAFF
REVIEWED BY: STAFF
APPROVED BY: STAFF

ISSUE DRAWING LOG:		
MARK	DATE	DESCRIPTION
5	09/18/2023	PHASE 1 100% CD'S
4	08/21/2023	PHASE 1 95% CD'S
3	07/07/2023	PHASE 0 BID DOCUMENTS
2	12/09/2022	DESIGN DEVELOPMENT
1	09/09/2022	SCHEMATIC DESIGN

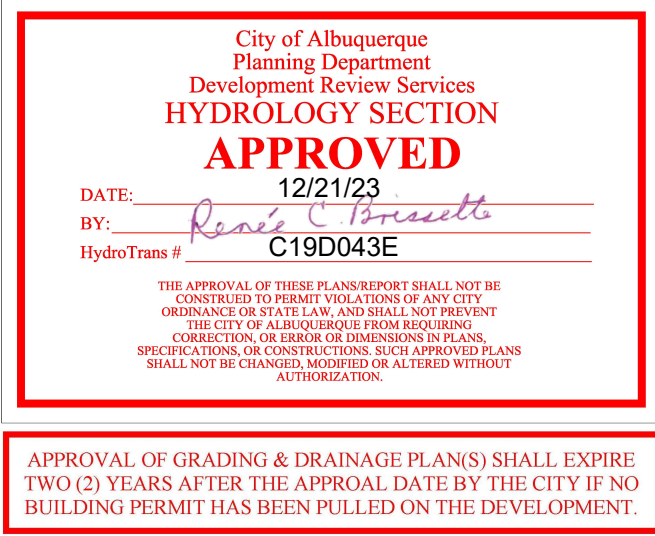
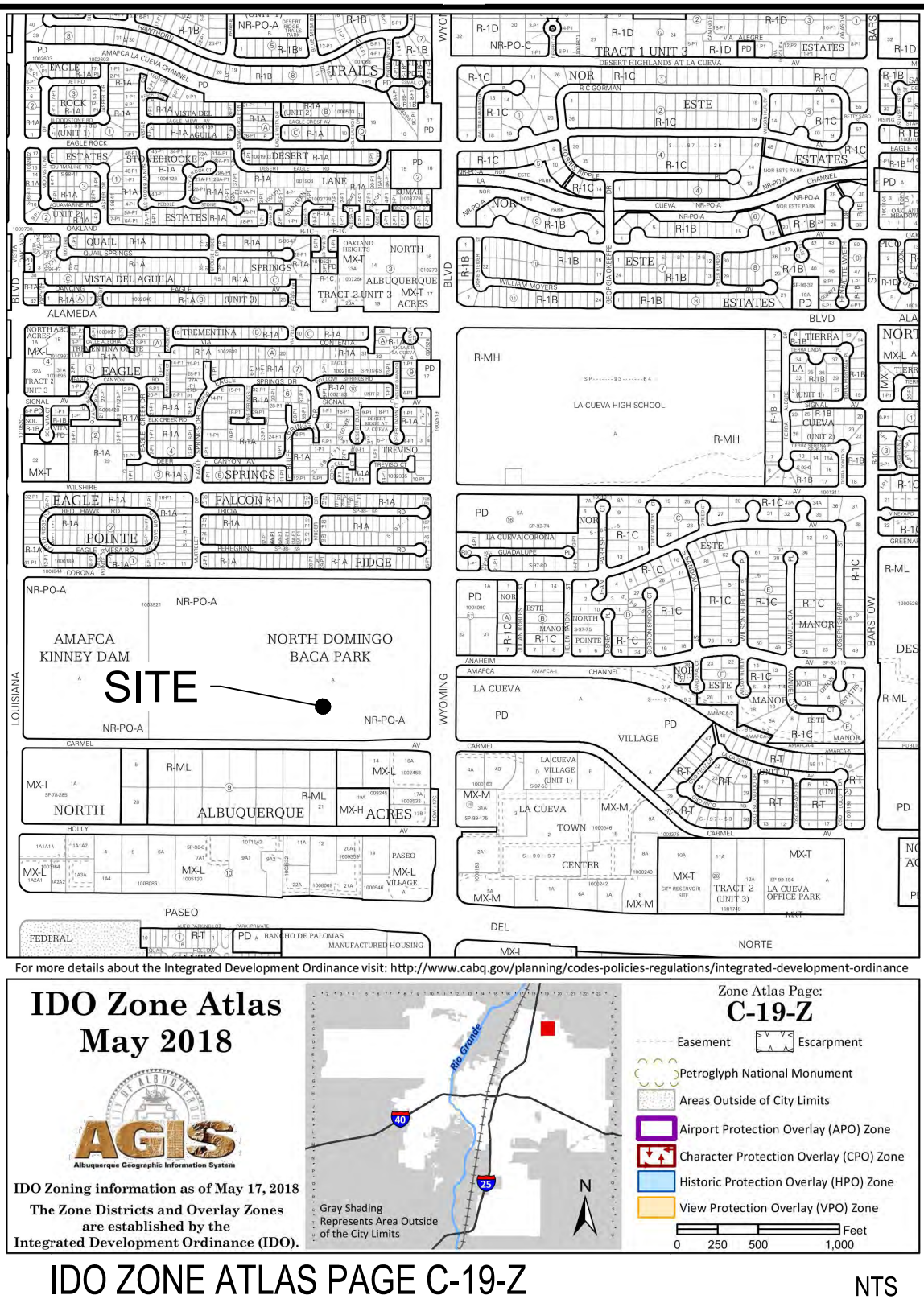
GRADING PLAN

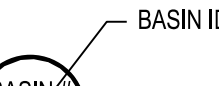
C-104
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Label	Start Node	Stop Node	Diameter (in)	Length (3D) (ft)	Flow (cfs)	Velocity (ft/s)	Invert (Start) (ft)	Invert (Stop) (ft)	Elevation Ground (Start) (ft)	Elevation Ground (Stop) (ft)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)
CO-1	CB-1	CB-2	24.0	41.2	7.38	2.35	5,352.70	5,351.82	5,358.70	5,357.82	5,355.46	5,355.27
CO-2	CB-2	CB-3	24.0	38.6	12.03	3.83	5,351.82	5,351.13	5,357.82	5,357.13	5,355.05	5,354.66
CO-3	CB-3	CB-4	24.0	43.2	14.50	4.62	5,351.13	5,350.36	5,357.13	5,356.36	5,354.40	5,353.77
CO-4	CB-4	MH-1	24.0	42.4	17.52	5.58	5,350.36	5,350.04	5,356.36	5,356.04	5,353.25	5,352.87
CO-5	MH-1	MH-3	24.0	153.7	18.63	5.93	5,350.04	5,347.72	5,356.04	5,353.72	5,352.50	5,350.06
CO-6	CB-5	MH-2	18.0	78.3	1.11	4.93	5,353.73	5,351.89	5,359.73	5,357.89	5,354.12	5,353.17
CO-7	MH-2	MH-1	18.0	68.6	1.11	4.92	5,351.89	5,350.04	5,357.89	5,356.04	5,353.17	5,353.16
CO-8	MH-3	O-1	24.0	41.3	18.63	5.93	5,347.72	5,347.60	5,353.72	5,353.00	5,349.46	5,349.15

A1 HYDRAULIC ANALYSIS - STORMCAD OUTPUT



LEGEND	
	 BASIN BOUNDARY
	DISCHARGE LOCATION
	FLOW DIRECTION
	BASIN NUMBER
	STORMCAD LABEL

EXISTING DRAINAGE CONDITIONS

THIS SITE IS UNDER THE NORTH DOMINGO BACA MASTER PLAN AND DISCHARGES TO THE MCKINNEY DAM. STORM WATER FACILITIES ARE EXISTING AND SIZED FOR STORMWATER FLOWS ATTRIBUTABLE FROM THIS PROJECT. EXISTING CONDITIONS SITE DISCHARGE RATE IS 11.91 CFS.

FLOOD ZONE

PER THE FEMA MAP NUMBER 350100141G DATED SEPTEMBER 26, 2008 SHOWS THE SITE IS LOCATED WITHIN ZONE AO WITH A 1' DEPTH INUNDATION.

PROPOSED DRAINAGE CONDITIONS

DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE NORTH DOMINGO BACA MASTER PLAN.

THE TOTAL SITE AREA IS APPROXIMATELY 4.37 ACRES WITH THE FOLLOWING ESTIMATED LAND TREATMENTS FOR BASIN 100:

PROPOSED CONDITION SITE DISCHARGE RATE IS 18.63 CFS OR APPROXIMATELY 6.72 CFS ABOVE EXISTING CONDITION DISCHARGE RATE. THE ADDITIONAL RUNOFF WILL ROUTE THROUGH THE EXISTING CULVERT AND DISCHARGE INTO MCKINNEY DAM.

HUITT-ZOLLARS IS IN THE PROCESS OF PREPARING A LOMR WHICH WILL CONSIDER THE PREVIOUS DRAINAGE PROJECTS THAT HAVE MODIFIED THE FLOOD ZONE WITHIN THE PROJECT SITE. THE PREVIOUS PROJECTS HAVE EFFECTIVELY REMOVED THIS PROJECT SITE FROM THE FLOOD AREA AND WILL BE REFLECTED IN THE LOMR PRIOR TO CERTIFICATE OF OCCUPANCY.

STORM WATER QUALITY

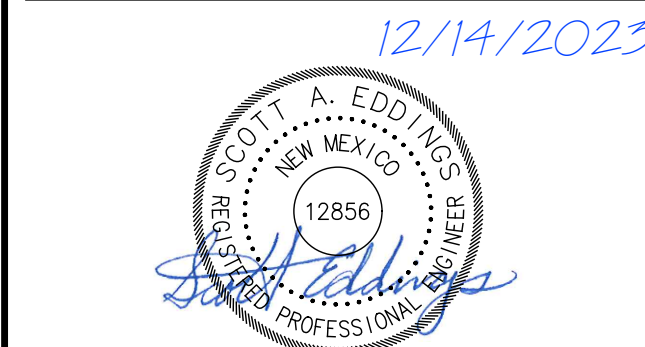
EXISTING SITE IS PARTIALLY PAVED AND THE EXISTING PAVED AREAS DISCHARGE INTO THE EXISTING STORM DRAIN WITHOUT WATER QUALITY.

WATER QUALITY REQUIREMENTS TREATING THE PAVED AREAS WILL REQUIRE A TOTAL OF 5396 CF BEING TREATED THROUGH THE DRAINAGE FACILITIES. THE PROJECT ROUTES THE ENTIRE RUNOFF THROUGH THE CULVERT LEADING TO THE MCKINNEY DAM. THE ROUTING OF THE RUNOFF THROUGH THE MCKINNEY DAM QUALIFIES THE RUNOFF AS FULLY TREATED.

VOLUME = 190.464 SF * 0.34in/12 = 5396 CUBIC FEET

NOTE: FOR SPECIFICATION INFORMATION, REFER TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS

HUITT ZOLLARS
6501 Americas Parkway NE, Suite 830
Albuquerque, New Mexico 87110-5375
505.883.8114
www.huitt-zollars.com



NORTH DOMINGO BACA AQUATIC CENTER

PHASE 1

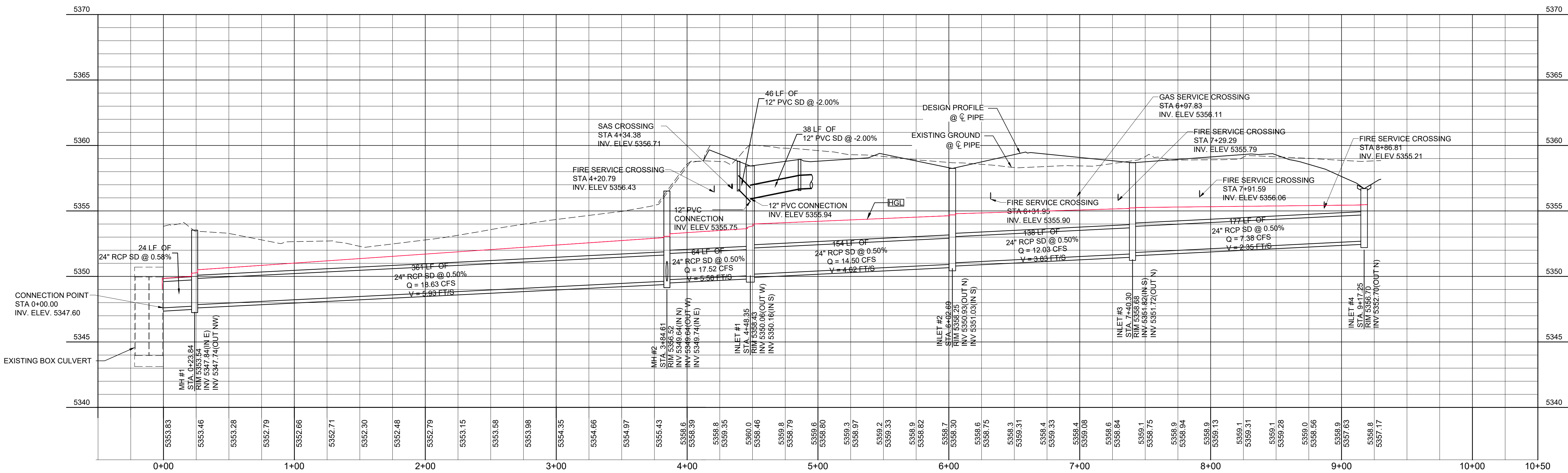
7521 Carmel Ave. NE
Albuquerque, NM 87113

City of Albuquerque
1801 4th St. NW, Albuquerque, NM. 87102
CITY PROJECT NO.: **705286**
PROJECT NO.: R312254.01
DRAWN BY: STAFF
REVIEWED BY: STAFF
APPROVED BY: STAFF
ISSUE DRAWING LOG:

MARK	DATE	DESCRIPTION
5	09/18/2023	PHASE 1 100% CD'S
4	08/21/2023	PHASE 1 95% CD'S
3	07/07/2023	PHASE 0 BID DOCUMENTS
2	12/09/2022	DESIGN DEVELOPMENT
1	09/09/2022	SCHEMATIC DESIGN

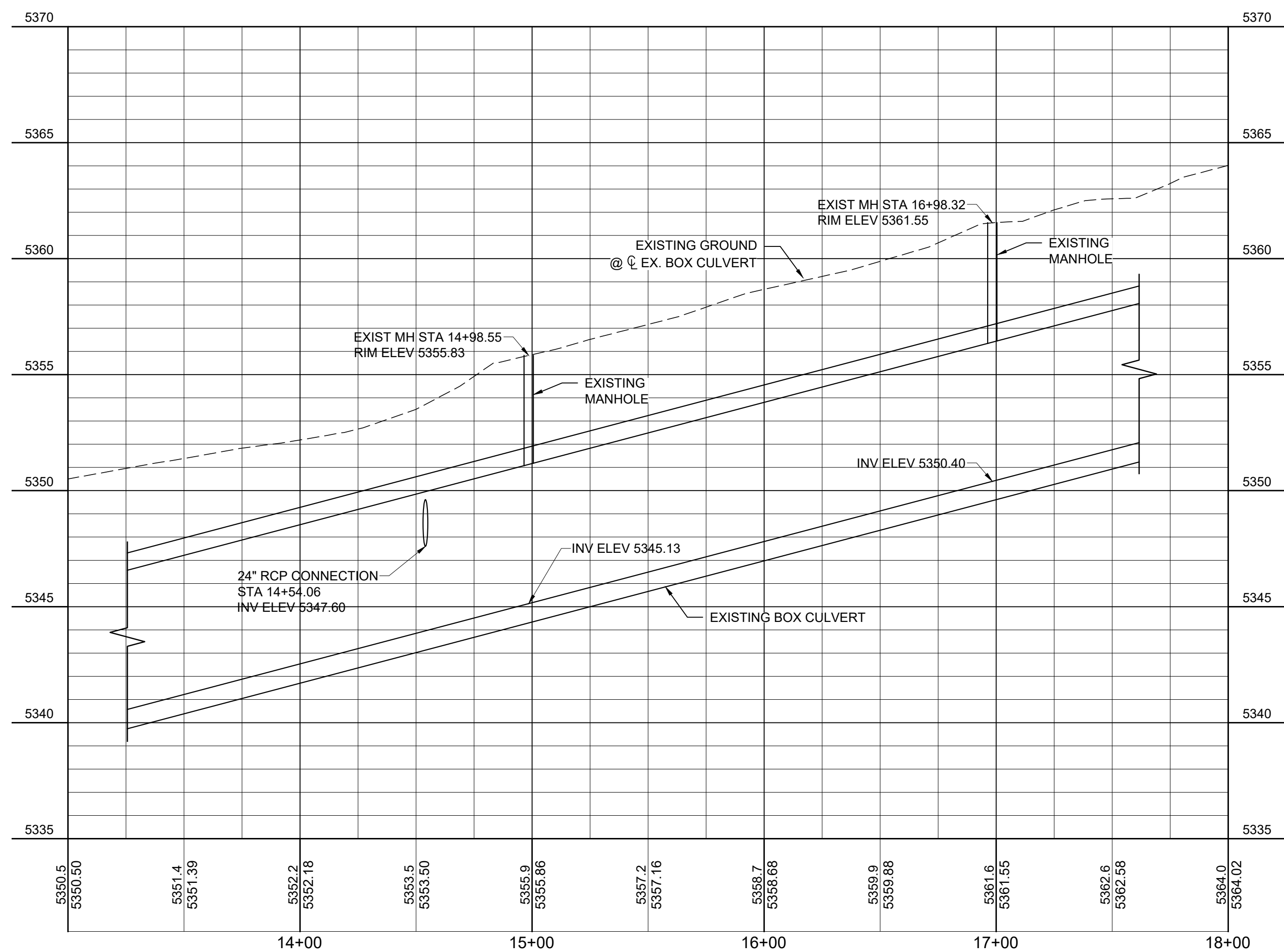
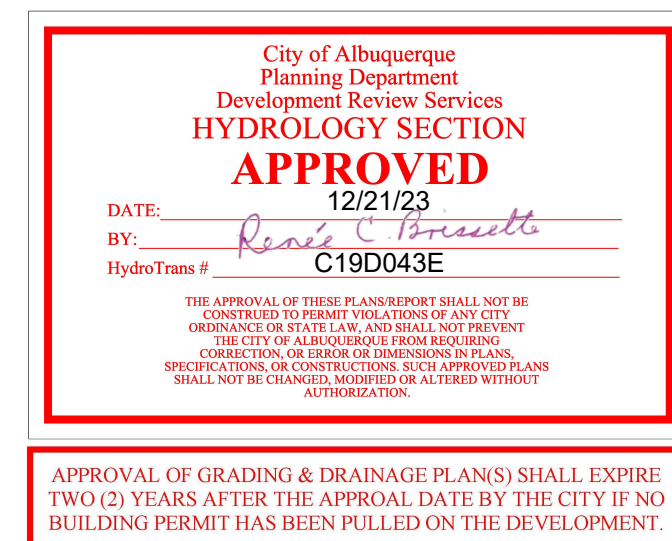
DRAINAGE PLAN

C-110A
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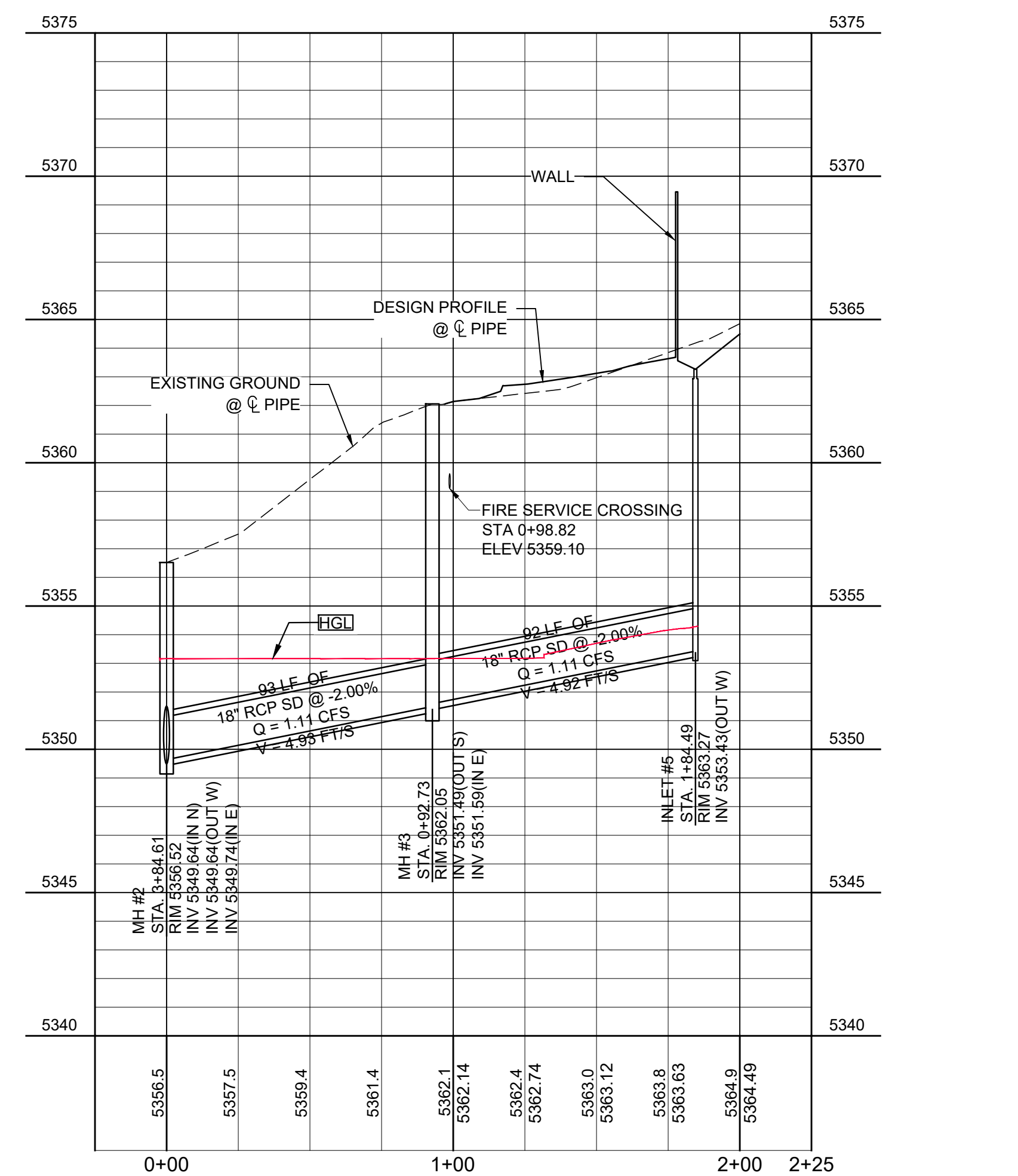
D1 STORM DRAIN PROFILE
1" = 4'-0" HORIZ.
1" = 4'-0" VERT.

0 40' 80'
SCALES: HORIZ. 1" = 40'
VERT. 1" = 4'



A1 EXISTING BOX CULVERT PROFILE AT CONNECTION
1" = 4'-0" HORIZ.
1" = 4'-0" VERT.

0 40' 80'
SCALES: HORIZ. 1" = 40'
VERT. 1" = 4'



A5 STORM DRAIN PROFILE - NORTH
1" = 4'-0" HORIZ.
1" = 4'-0" VERT.

0 40' 80'
SCALES: HORIZ. 1" = 40'
VERT. 1" = 4'

NOTE: FOR SPECIFICATION INFORMATION, REFER TO
CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS
FOR PUBLIC WORKS



NORTH DOMINGO BACA AQUATIC CENTER

PHASE 1

7521 Carmel Ave. NE
Albuquerque, NM 87113

City of Albuquerque
1801 4th St. NW, Albuquerque, NM, 87102
CITY PROJECT NO.: **705286**
PROJECT NO.: R312254.01
DRAWN BY: STAFF
REVIEWED BY: STAFF
APPROVED BY: STAFF

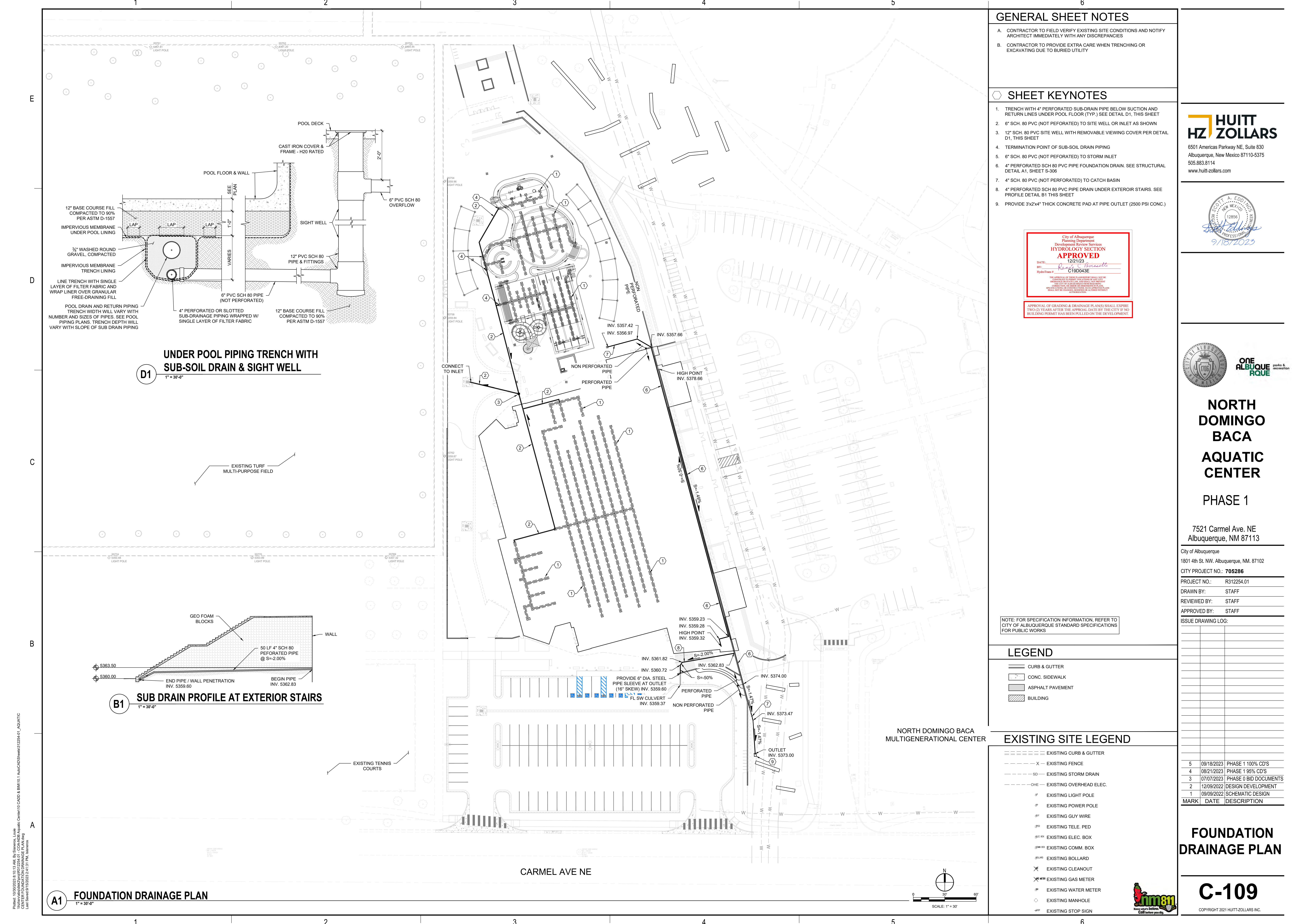
ISSUE DRAWING LOG:

MARK	DATE	DESCRIPTION
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4	08/21/2023	PHASE 1 95% CD'S
3	07/07/2023	PHASE 0 BID DOCUMENTS
2	12/09/2022	DESIGN DEVELOPMENT
1	09/09/2022	SCHEMATIC DESIGN

STORM DRAIN PROFILE

C-105

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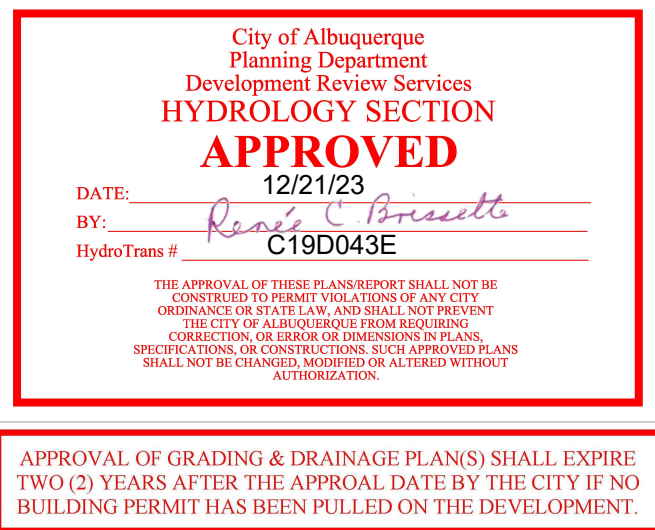


GENERAL SHEET NOTES

- A. CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS AND NOTIFY ARCHITECT IMMEDIATELY WITH ANY DISCREPANCIES
- B. CONTRACTOR TO PROVIDE EXTRA CARE WHEN TRENCHING OR EXCAVATING DUE TO BURIED UTILITY

SHEET KEYNOTES

1. TRENCH WITH 4\"/>



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.

LEGEND

- CURB & GUTTER
- CONC. SIDEWALK
- ASPHALT PAVEMENT
- BUILDING

EXISTING SITE LEGEND

- — — — — EXISTING CURB & GUTTER
- — — — — X — EXISTING FENCE
- — — — — SD — EXISTING STORM DRAIN
- — — — — OHE — EXISTING OVERHEAD ELEC.
- ⊕ — EXISTING LIGHT POLE
- ⊕ — EXISTING POWER POLE
- ⊕ — EXISTING GUY WIRE
- ⊕ — EXISTING TELE. PED
- ⊕ — EXISTING ELEC. BOX
- ⊕ — EXISTING COMM. BOX
- ⊕ — EXISTING BOLLARD
- ⊕ — EXISTING CLEANOUT
- ⊕ — EXISTING GAS METER
- ⊕ — EXISTING WATER METER
- ⊕ — EXISTING MAN-HOLE
- ⊕ — EXISTING STOP SIGN

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1	09/09/2022	SCHEMATIC DESIGN

FOUNDATION DRAINAGE PLAN

C-109

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Plotted: 10/20/2023 8:10:13 AM By: Silerena, Laila
\\huittzollars\shared\proj\R312254.01 - COA\AQB Aquatic Center\10 CAD\A & BM\10.1 AutoCAD\Sheet\312254-01_AQUATIC
Last Saved: 9/15/2023 2:41:31 PM, 11/16/2023