

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

November 21, 2019

Holden Rennaker
Short Elliot Hendrickson Inc.
934 Main Avenue, Unit C
Durango, CO 81301

RE: **Monterey Place Apts**
2306-2320 Central SW
Grading Plan Stamp Date: 11/13/19
Drainage Report Stamp Date: 11/13/19
Hydrology File: J12D030

Dear Mr. Rennaker,

PO Box 1293

Based on the submittal received on 11/20/19 the above-referenced Grading Plan and Drainage Report are approved for Work Order and Building Permit.

Albuquerque

Prior to Certificate of Occupancy (For Information):

NM 87103

www.cabq.gov

1. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
2. A Bernalillo County Recorded [Private Facility Drainage Covenant](#) is required for the storm water quality ponds. The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) regarding the routing and recording process for covenants. The routing and recording process for covenants can take a month or longer; Hydrology recommends beginning this process as soon as possible as to not delay approval for certificate of occupancy.
3. City acceptance and close-out of the public Work Order will be required, unless a financial guarantee has been posted.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana M. Peterson
Senior Engineer, Planning Dept.
Development Review Services



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	\$ 5080.00	461615	305	PCDMD	24_MS4	7547210	\$ 5080.00
TOTAL AMOUNT						TOTAL DEPOSIT	\$5080.00

Hydrology#: J12D030 Name: Monterey Place Apts, 29310sf imp.
Payment In-Lieu For Storm Water Quality
Volume Requirement

Address/Legal Description: 2306-2320 Central SW
Lots 2-6, Blk 6, Traction Park and City Electric Addn

DEPARTMENT NAME: Planning Department/Development Review Services, Hydrology

PREPARED BY Dana Peterson PHONE 924-3695

BUSINESS DATE 10/1/19

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 11/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

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

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



Building a Better World
for All of Us®

November 14th, 2019

Dana Peterson, PE
Development Review Services – Hydrology Section
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

RE: Monterey Place Drainage Submittal for Building Permit (Hydrology File: J12D030)

Mr. Peterson,

Thank you for the comments you provided on the Grading and Drainage Plan for the Monterey Place Apartments project (PR-2019-002331 and CPN 631982) on October 01, 2019. Below in blue are SEH's responses to Comments 1-4 for "Prior to Building Permit and Work Order."

1. Remove all "Conceptual/Not for Construction" markings and stamp, sign and date the plan.
[All markings were removed and the plan stamped and dated.](#)
2. All drainage calculations and findings, to include those presented in the response letter, need to be provided in a bound report, stamped/signed by the engineer.
[The calculations and findings have been included in a bound report that is stamped/signed.](#)
3. 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.
[An Erosion and Sediment Plan and Notice of Intent will be submitted 14 days prior to earth disturbance.](#)
4. Payment of the Fee in Lieu (Amount = 635CF x \$8/CF = \$5080, per sheet C-102) of onsite management of the SWQV must be made. Include a copy of the paid receipt when resubmitting.
[The fee was paid and a copy of the paid receipt was included with the resubmittal.](#)

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 934 Main Ave., Durango, CO 81301

SEH is 100% employee-owned | sehinc.com | 970-385-4546 | 970-385-4502 fax

Development Review Services – Hydrology Section
Monterey Place
September 25th, 2019

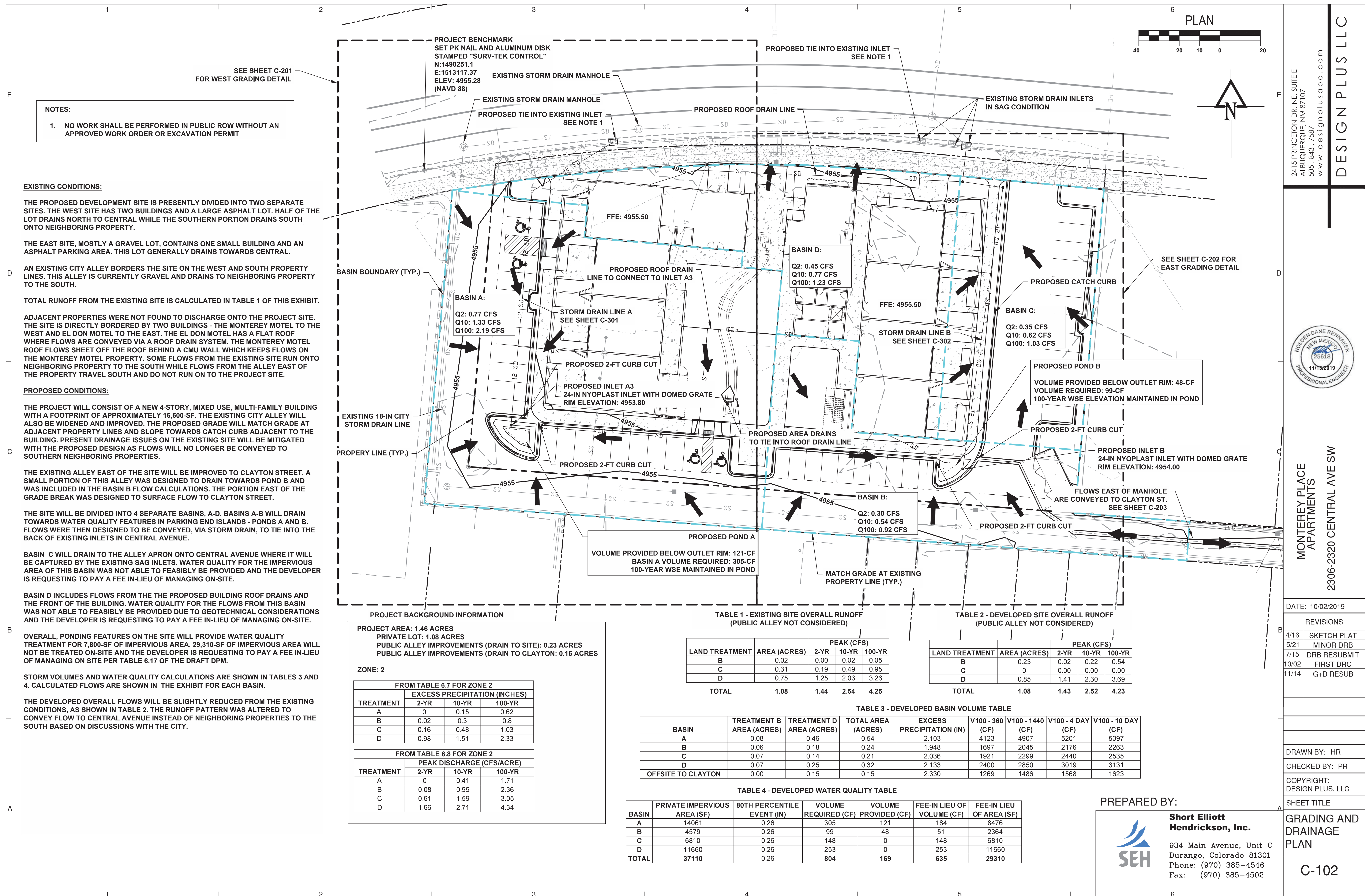
Additional comments 5-7 were provided “For Information” for Prior to Certificate of Occupancy. SEH appreciates these comments and will address when appropriate.

Please let me know if you have any questions or concerns.

Sincerely,



Holden Rennaker, PE (CO, NM, OR)
Short Elliot Hendrickson Inc.
Email: hrennaker@sehinc.com
Phone: 970-459-9012



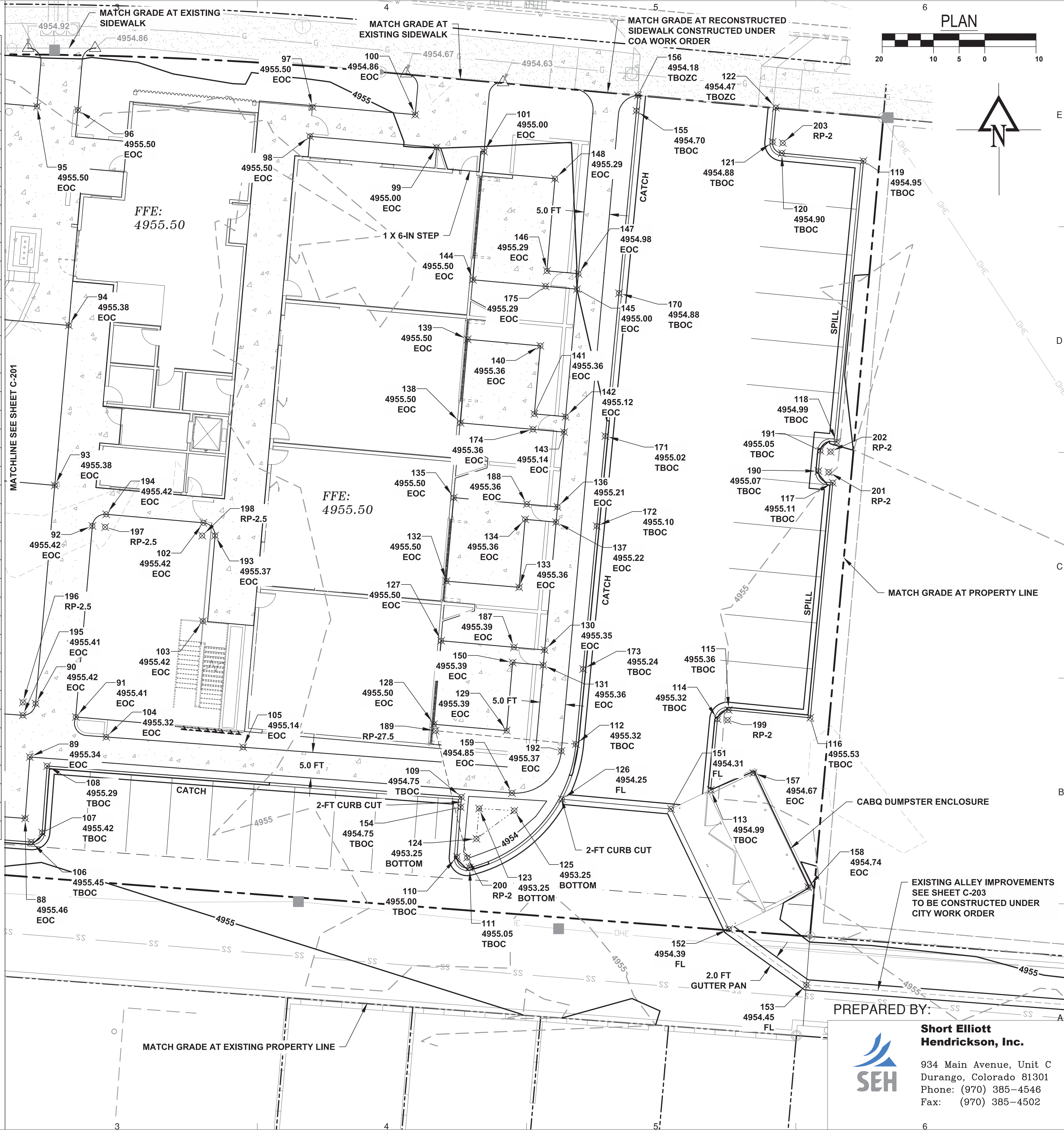
Point Table				
Point #	Northing	Easting	Elevation	Description
88	1490105.24	1513285.10	4955.46	EOC
89	1490117.21	1513286.00	4955.34	EOC
90	1490127.62	1513287.13	4955.42	EOC
91	1490125.01	1513294.97	4955.41	EOC
92	1490162.23	1513298.20	4955.42	EOC
93	1490170.15	1513290.86	4955.38	EOC
94	1490201.32	1513293.60	4955.38	EOC
95	1490243.98	1513287.40	4955.50	EOC
96	1490243.28	1513295.37	4955.50	EOC
97	1490243.89	1513341.12	4955.50	EOC
98	1490238.16	1513340.62	4955.50	EOC
99	1490236.00	1513365.29	4955.00	EOC
100	1490242.39	1513361.15	4954.86	EOC
101	1490235.19	1513374.57	4955.00	EOC
102	1490162.85	1513319.84	4955.42	EOC
103	1490143.68	1513319.72	4955.42	EOC
104	1490121.11	1513300.89	4955.32	EOC
105	1490119.11	1513327.60	4955.14	EOC
106	1490100.64	1513286.26	4955.45	TBOC
107	1490102.49	1513288.41	4955.42	TBOC
108	1490115.45	1513289.37	4955.29	TBOC
109	1490109.42	1513370.15	4954.75	TBOC
110	1490097.74	1513369.28	4955.00	TBOC
111	1490095.65	1513371.75	4955.05	TBOC
112	1490119.71	1513392.47	4955.32	TBOC
113	1490110.80	1513418.74	4954.99	TBOC
114	1490124.57	1513420.06	4955.32	TBOC
115	1490126.38	1513422.24	4955.36	TBOC
116	1490124.85	1513438.17	4955.53	TBOC
117	1490170.64	1513442.54	4955.11	TBOC
118	1490178.61	1513443.31	4954.99	TBOC
119	1490233.36	1513448.54	4954.95	TBOC
120	1490234.88	1513432.61	4954.90	TBOC
121	1490237.06	1513430.81	4954.88	TBOC
122	1490243.75	1513431.45	4954.47	TBOZC
123	1490107.16	1513373.61	4953.25	BOTTOM
124	1490101.28	1513373.08	4953.25	BOTTOM
125	1490106.75	1513380.47	4953.25	BOTTOM
126	1490108.98	1513389.74	4954.25	FL
127	1490139.86	1513366.21	4955.50	EOC
128	1490123.59	1513364.78	4955.50	EOC
129	1490122.35	1513378.96	4955.39	EOC
130	1490138.05	1513386.37	4955.35	EOC
131	1490135.09	1513386.11	4955.36	EOC
132	1490151.48	1513367.23	4955.50	EOC
133	1490150.27	1513381.41	4955.36	EOC
134	1490163.52	1513382.57	4955.36	EOC
135	1490167.75	1513368.66	4955.50	EOC
136	1490165.94	1513388.88	4955.21	EOC
137	1490162.98	1513388.61	4955.22	EOC

Point Table				
Point #	Northing	Easting	Elevation	Description
138	1490182.33	1513369.96	4955.50	EOC
139	1490198.60	1513371.36	4955.50	EOC
140	1490197.33	1513385.54	4955.36	EOC
141	1490184.08	1513384.37	4955.36	EOC
142	1490183.53	1513390.45	4955.12	EOC
143	1490180.52	1513390.18	4955.14	EOC
144	1490210.20	1513372.38	4955.50	EOC
145	1490208.38	1513392.68	4955.00	EOC
146	1490211.95	1513386.82	4955.29	EOC
147	1490211.40	1513392.95	4954.98	EOC
148	1490229.91	1513388.39	4955.29	EOC
150	1490135.63	1513380.12	4955.39	EOC
151	1490107.07	1513411.01	4954.31	FL
152	1490083.65	1513422.30	4954.39	FL
153	1490072.80	1513437.40	4954.45	FL
154	1490107.42	1513370.00	4954.75	TBOC
155	1490243.16	1513404.27	4954.70	TBOC
156	1490246.14	1513404.55	4954.18	TBOZC
157	1490114.07	1513427.06	4954.67	EOC
158	1490091.85	1513437.77	4954.74	EOC
159	1490110.19	1513379.99	4954.85	EOC
170	1490207.60	1513400.87	4954.88	TBOC
171	1490179.75	1513398.21	4955.02	TBOC
172	1490162.22	1513396.54	4955.10	TBOC
173	1490134.35	1513393.87	4955.24	TBOC
174	1490181.06	1513384.10	4955.36	EOC
175	1490208.93	1513386.55	4955.29	EOC
187	1490138.59	1513380.39	4955.39	EOC
188	1490166.48	1513382.89	4955.36	EOC
189	1490122.33	1513365.10		RP-27.5
190	1490172.92	1513439.75	4955.07	TBOC
191	1490176.90	1513440.13	4955.05	TBOC
192	1490118.36	1513389.63	4955.37	EOC
193	1490160.35	1513322.12	4955.37	EOC
194	1490164.51	1513300.91	4955.42	EOC
195	1490125.34	1513284.64	4955.41	EOC
196	1490127.84	1513284.64		RP-2.5
197	1490162.01	1513300.69		RP-2.5
198	1490160.35	1513319.62		RP-2.5
199	1490124.38	1513422.05		RP-2
200	1490097.59	1513371.27		RP-2

LEGEND

TBOC - TOP BACK OF CURB
TBOZC - TOP BACK OF ZERO HEIGHT CURB
EOP - EDGE OF PAVEMENT
EOC - EDGE OF CONCRETE
FFE - FINISH FLOOR ELEVATION
BOTTOM - BOTTOM OF POND
RP-X - RADIUS POINT - RADIUS (X-FT)

NOTE: NO WORK SHALL BE PERFORMED IN THE PUBLIC ROW WITHOUT AN APPROVED WORK ORDER OR EXCAVATION PERMIT



2415 PRINCETON DR. NE, SUITE E
ALBUQUERQUE, NM 87107
505.843.7587
www.designplusllc.com

DESIGN PLUS LLC

HOLDEN DANE RENNIKER
NEW MEXICO
25618
11/13/2019
PROFESSIONAL ENGINEER

MONTEREY PLACE
APARTMENTS
2306-2320 CENTRAL AVE SW

DATE: 10/02/2019

REVISIONS

4/16	SKETCH PLAT
5/21	MINOR DRB
7/15	DRB RESUBMIT
10/02	FIRST DRC
11/14	G+D RESUB

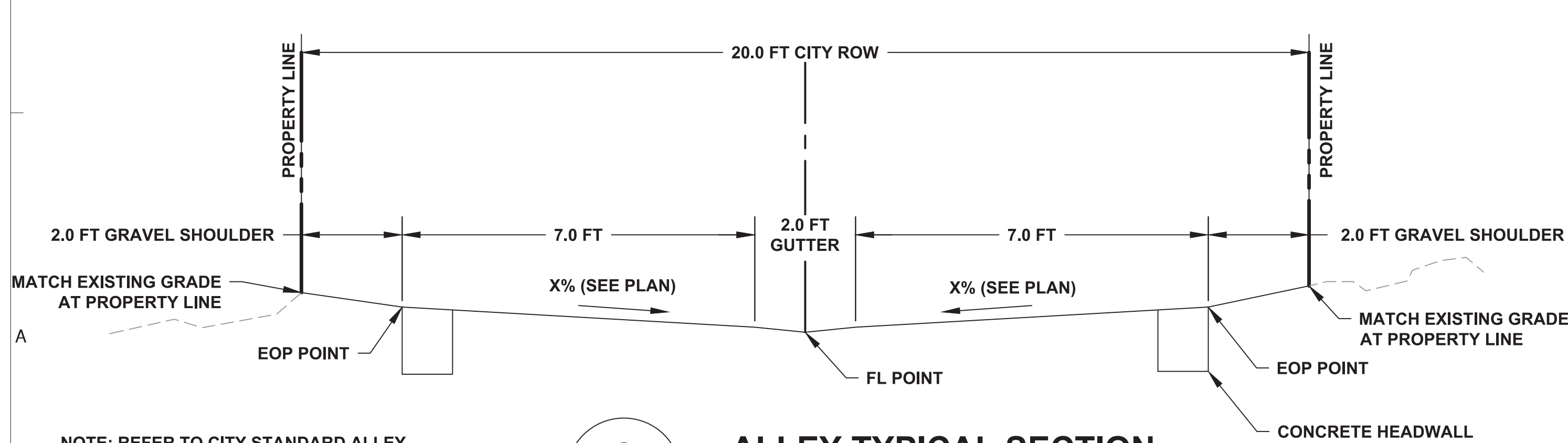
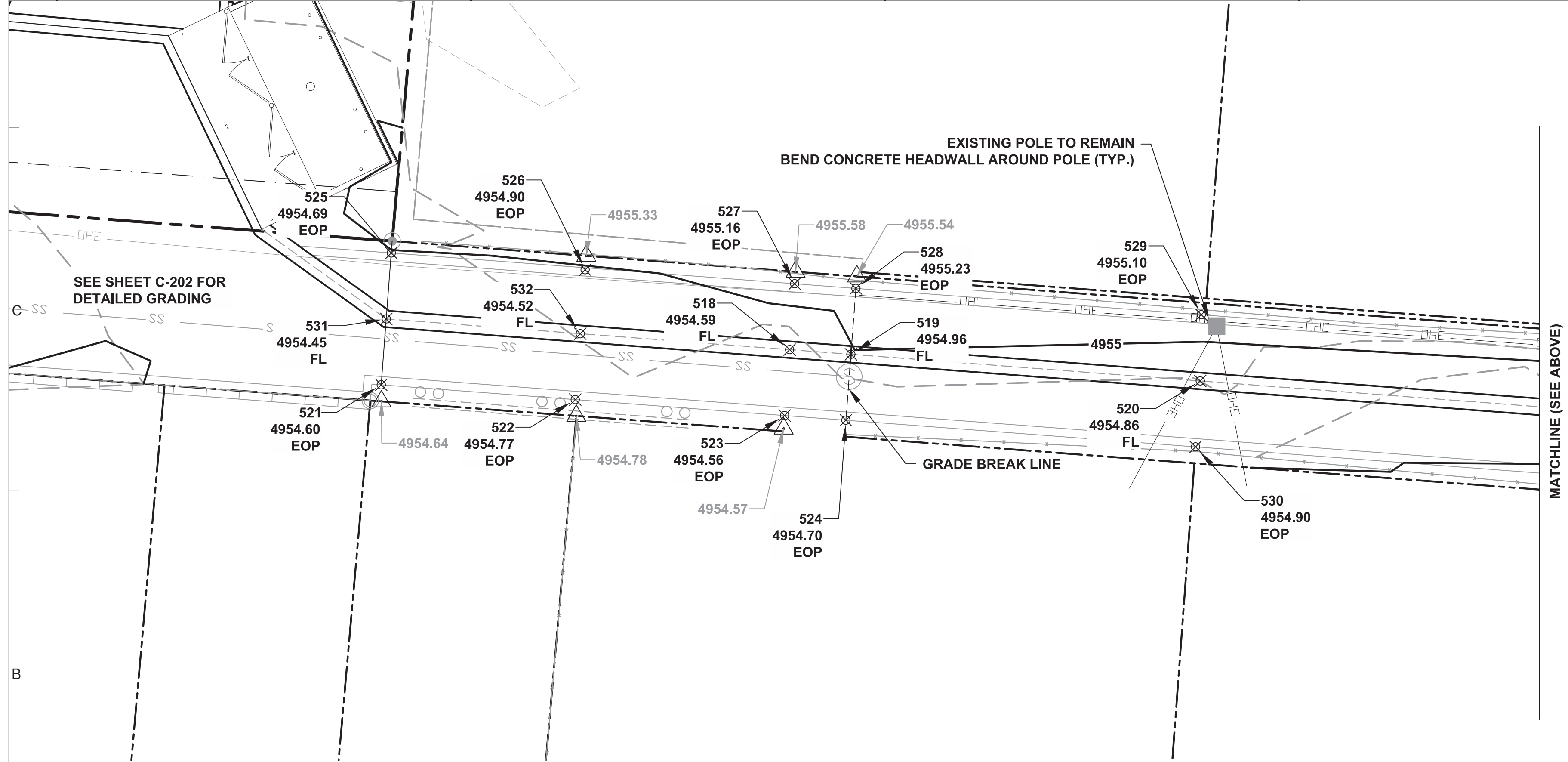
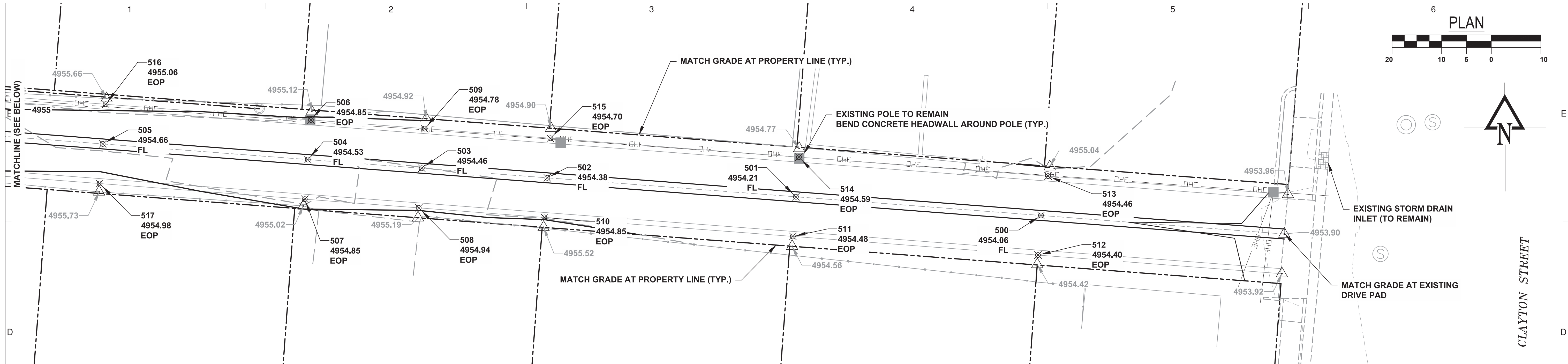
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SHEET TITLE
DETAILED
GRADING PLAN

C-202



NOTE: REFER TO CITY STANDARD ALLEY
DETAIL FOR CONCRETE DIMENSIONING AND
ALLEY SPECIFICATIONS

A
C-202

ALLEY TYPICAL SECTION

LEGEND:
EOP = EDGE OF PAVEMENT
FL = FLOWLINE

EXISTING ELEVATIONS ON PROPERTY
LINES ARE SHOWN IN GREY

NOTE: NO WORK SHALL BE PERFORMED IN
THE PUBLIC ROW WITHOUT AN APPROVED
WORK ORDER OR EXCAVATION PERMIT

PREPARED BY:



**Short Elliott
Hendrickson, Inc.**
934 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 385-4546
Fax: (970) 385-4502

MONTEREY PLACE
APARTMENTS
2306-2320 CENTRAL AVE SW

DATE: 10/02/2019

REVISIONS	
4/16	SKETCH PLAT
5/21	MINOR DRB
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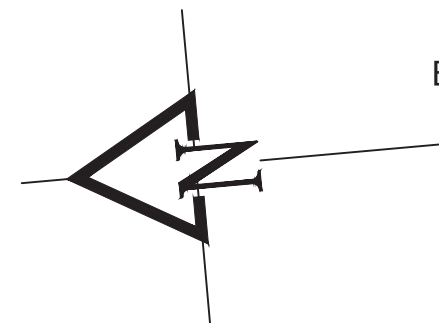
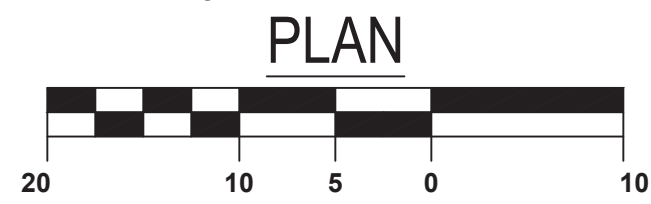
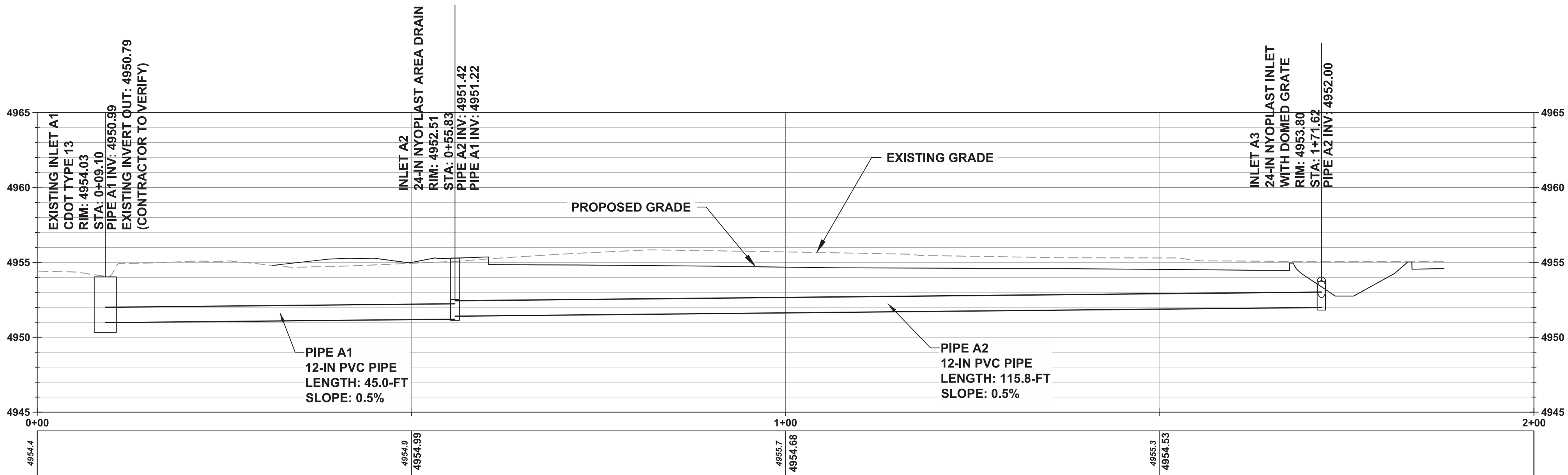
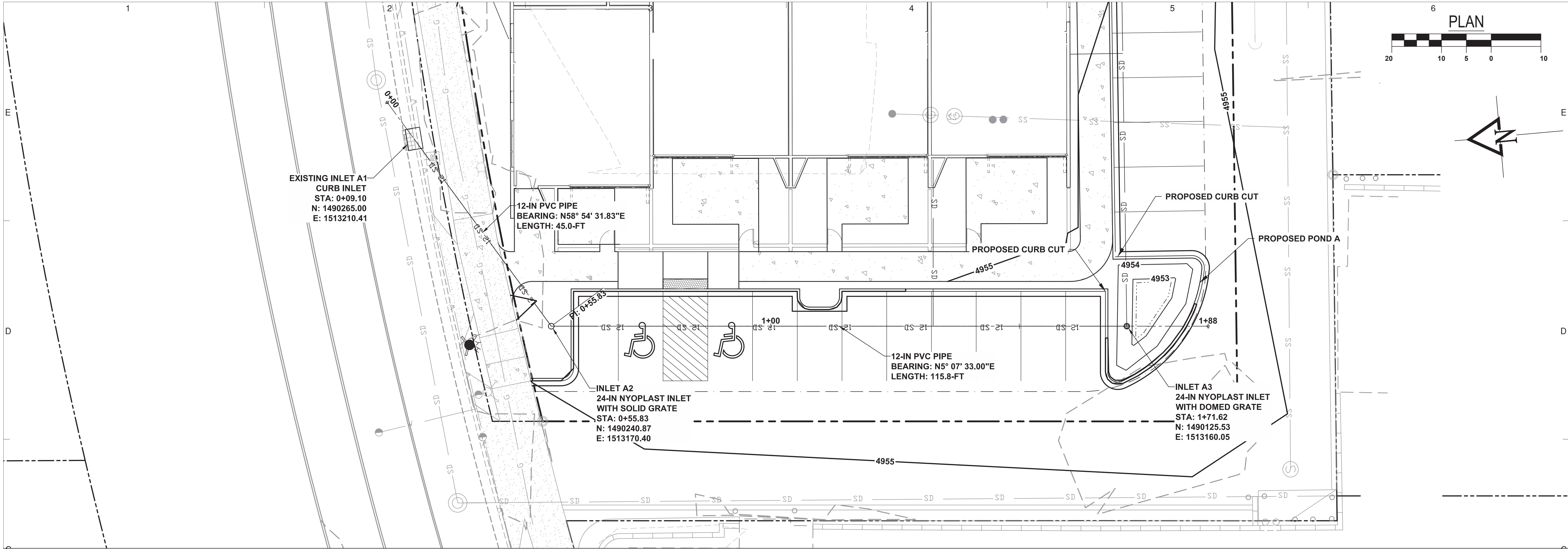
DETAILED
ALLEY
GRADING PLAN

C-203



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MONTEREY PLACE
APARTMENTS
2306-2320 CENTRAL AVE SW

DATE: 10/02/2019

REVISIONS	
4/16	SKETCH PLAT
5/21	MINOR DRB
7/15	DRB RESUBMIT
10/02	FIRST DRC
11/14	G+D RESUB

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SHEET TITLE

STORM A
P-PRO

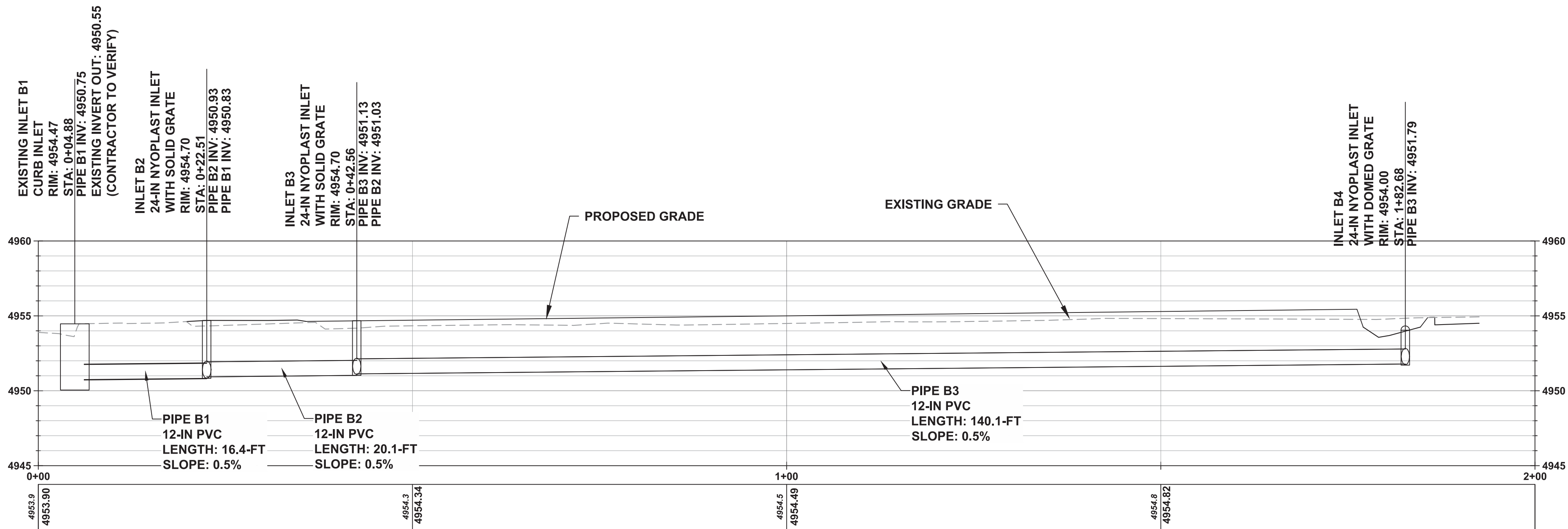
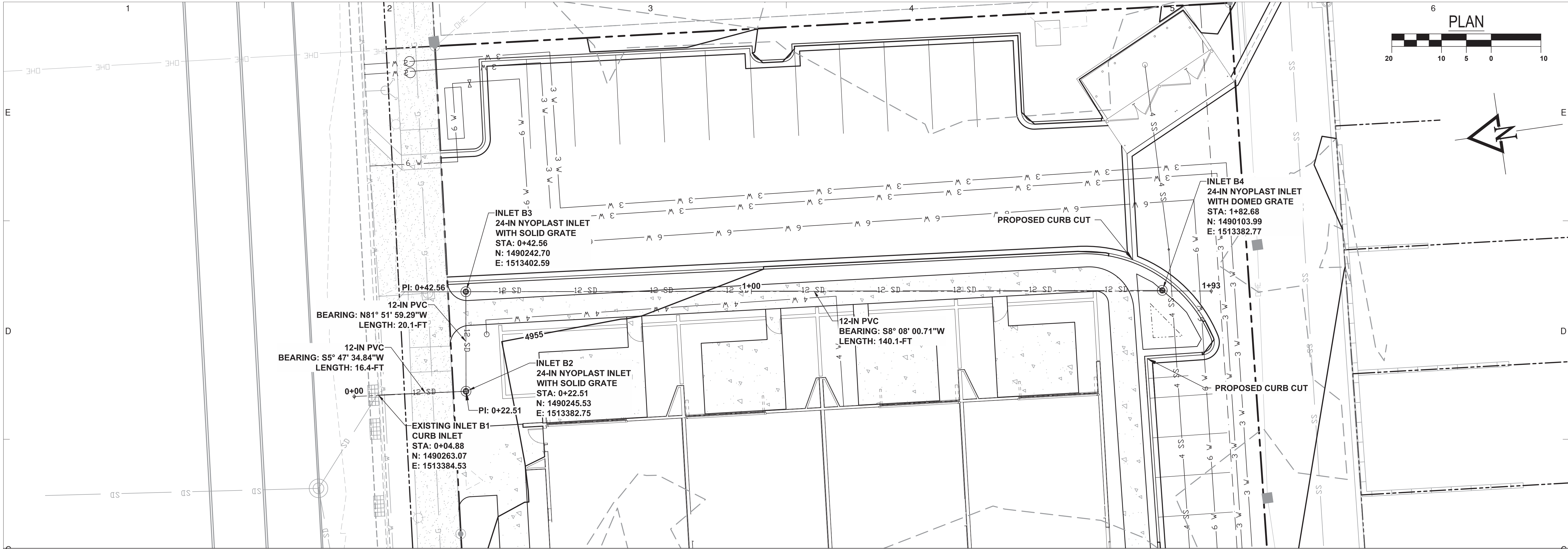
C-301

PREPARED BY:



**Short Elliott
Hendrickson, Inc.**

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PREPARED BY:



**Short Elliott
Hendrickson, Inc.**

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MONTEREY PLACE
APARTMENTS

2306-2320 CENTRAL AVE SW

DATE: 10/02/2019

REVISIONS

4/16	SKETCH PLAT
5/21	MINOR DRB
7/15	DRB RESUBMIT
10/02	FIRST DRC
11/14	G+D RESUB

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SHEET TITLE

STORM B
P-PRO

C-302



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DESIGN PLUS LLC

MONTEREY PLACE APARTMENTS

GRADING AND DRAINAGE PLAN SUPPLEMENTAL CALCULATIONS AND FINDINGS

ALBUQUERQUE, NM



November 13, 2019

Prepared by:

Short, Elliott, Hendrickson, Inc.
934 Main Ave., Unit C
Durango, CO 81301



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for All of Us®

INTRODUCTION

The Monterey Place Apartments project (Hydrology File J12D030) is a proposed mixed use apartment building located at 2306-2320 Central Avenue SW, Albuquerque, NM 87104. The project includes a 4-story building with a footprint of approximately 16,600-sf. The project also includes improvements in the City Right-of-Way. A Conceptual Grading and Drainage Plan was approved on May 22, 2019 by the Hydrology Section of the Planning Department.

The following report summarizes calculations and findings supplemental to the submitted Grading and Drainage Plan. The Grading and Drainage Plan highlights both the existing and proposed conditions and flow calculations for each basin. The following sections provide more detail into certain design elements of the drainage scheme.

WATER QUALITY

Water Quality was designed to be provided on-site to the maximum extent possible but was constrained by the density of the development as well as geotechnical considerations. The geotechnical report prohibits ponding adjacent to the building and the bioswale shown on the Conceptual Grading and Drainage Plan as providing 233-cf of water quality volume had to be removed from the plan.

As the design advanced on Ponds A and B, the amount of water quality provided by each was reduced from what was shown on the Conceptual Plan in order to provide adequate conveyance.

The developer paid a fee in lieu of providing water quality as calculated by the Hydrology Section.

The following tables for Ponds A and B describe the volume calculations between the pond bottom and outlet structure rim elevation – representing the water quality volume provided by each pond. Volumes were calculated using the conical method for contour areas.

Pond A:

Stage (ft)	Contour Area (sq. ft)	Incremental Volume (cf)	Cumulative Volume (cf)
0.00	50	0	0
0.25	77	16	16
0.75	145	54	70
1.05	196	51	121

Pond B:

Stage (ft)	Contour Area (sq. ft)	Incremental Volume (cf)	Cumulative Volume (cf)
0.00	20	0	0
0.25	46	8	8
0.75	119	40	48

STORMWATER CONVEYANCE

The development was designed to utilize a series of curb cuts, inlets and storm drain to convey flow from the site to existing inlets in Central Ave. The following sub-sections detail the sizing calculations of each component.

Curb Cuts

The *Hydraflow Express Extension for AutoCad Civil3D 2018* was used to model the proposed curb cuts to determine their capacity. The curbs were modelled as a 2-ft wide rectangular channel with a 0.5% slope, the minimum slope into the ponds. *Express* output is attached and shows that the capacity of these curb cuts is 3.9 cfs – larger than the 100-year of any single basin on the project.

Nyoplast Inlets

Each pond will have a 24-in diameter Nyoplast inlet with a Dome Grate. The Nyoplast 24" Dome Grate Inlet Capacity Chart was used to determine the head on the 100-year storm. To model 50% clogging, the Capacity modelled was twice the flow from the 100-year storm as calculated on the Drainage Plan.

The rims of each inlet were set to contain the 100-year water surface elevation to not extend outside of the proposed limits of Ponds A and B.

Storm Drain Lines A and B

Two separate 12-in PVC storm drain lines were designed to convey flow from Ponds A and B to the existing inlets in Central Avenue. The *Hydraflow Storm Sewer Extension for AutoCad Civil3D 2018* was used to model each of the proposed storm drain lines and calculate the Hydraulic Grade Line of each system during the 100-year storm.

Storm Sewer output is attached and demonstrates the HGL remains in the pipe during the 100-year storm.

PROPOSED ALLEY EXTENSION IMPROVEMENTS

A condition of project approval in DRB was the requirement to pave the existing dirt alley from the project's eastern boundary to Clayton St. Several residents in the area have expressed drainage concerns in this alley as the alley is very flat and generally flows towards the property owners to the south.

Based on discussions with the City Hydrology Department the alley was graded to hold grade at all property lines and drain to a gutter pan at the center of the alley. The majority of the alley will slope east towards Clayton St. while a western portion will be conveyed to Pond B.

It should be noted that although this alley was designed to help alleviate several drainage problems in this area, there will be no grading on the lots of adjacent homeowners. If low points exist on neighboring properties, they will continue to exist. Flows from the alley will be conveyed to a center gutter pan instead of to the properties on the south which is largely the case presently.

A detailed alley grading plan is included in this submittal.

ATTACHMENTS

- Output from Hydraflow Express Extension for Civil 3D (Curb Cut Capacity)
- Nyoplast 24" Dome Grate Inlet Capacity Charts
- Output from Hydraflow Storm Sewer Extension for Civil 3D (Storm Drain Lines A-B)

Channel Report

Monterey Place Curb Cut

Rectangular

Bottom Width (ft) = 2.00
Total Depth (ft) = 0.50

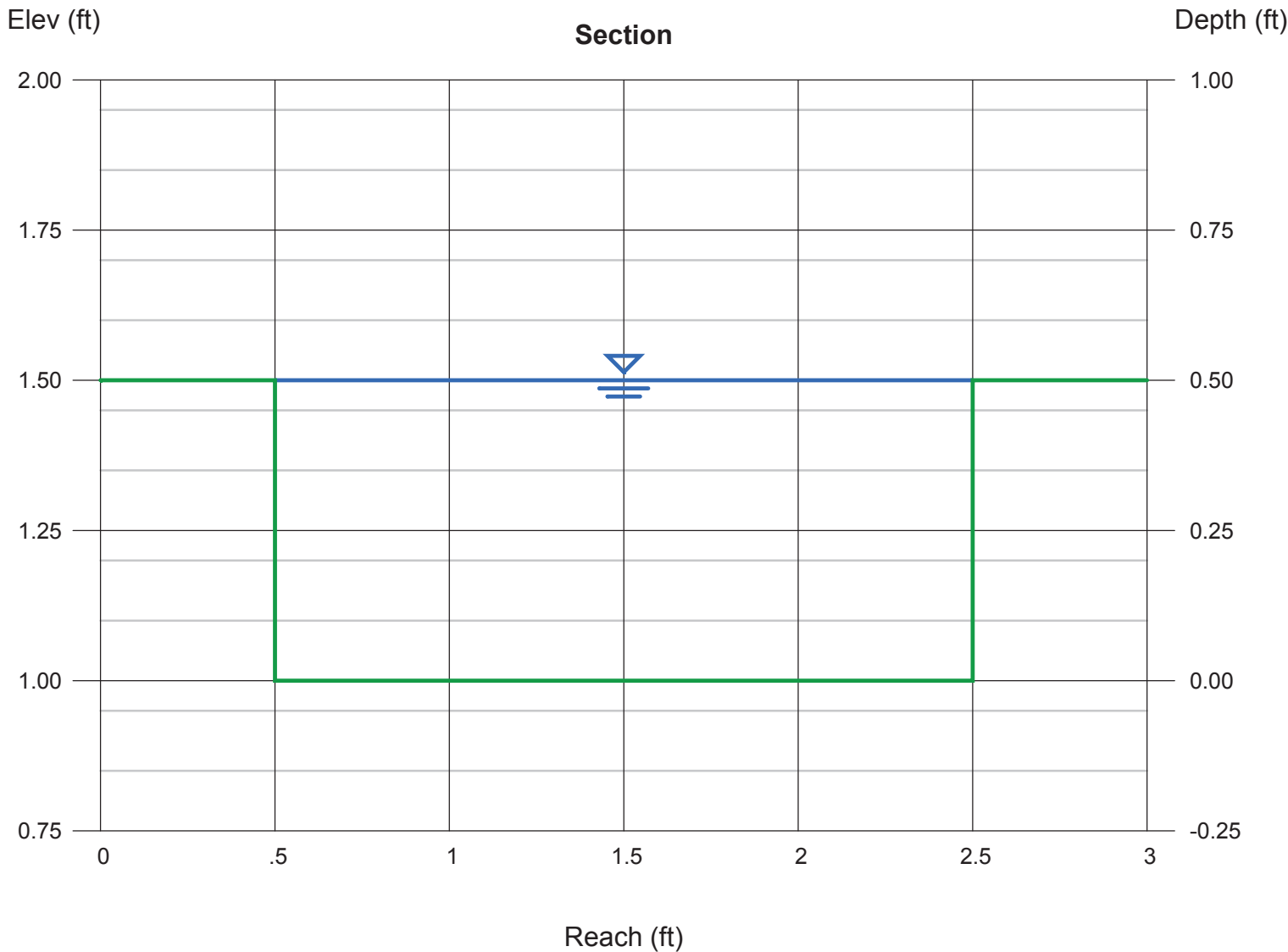
Invert Elev (ft) = 1.00
Slope (%) = 0.50
N-Value = 0.013

Calculations

Compute by: Known Depth
Known Depth (ft) = 0.50

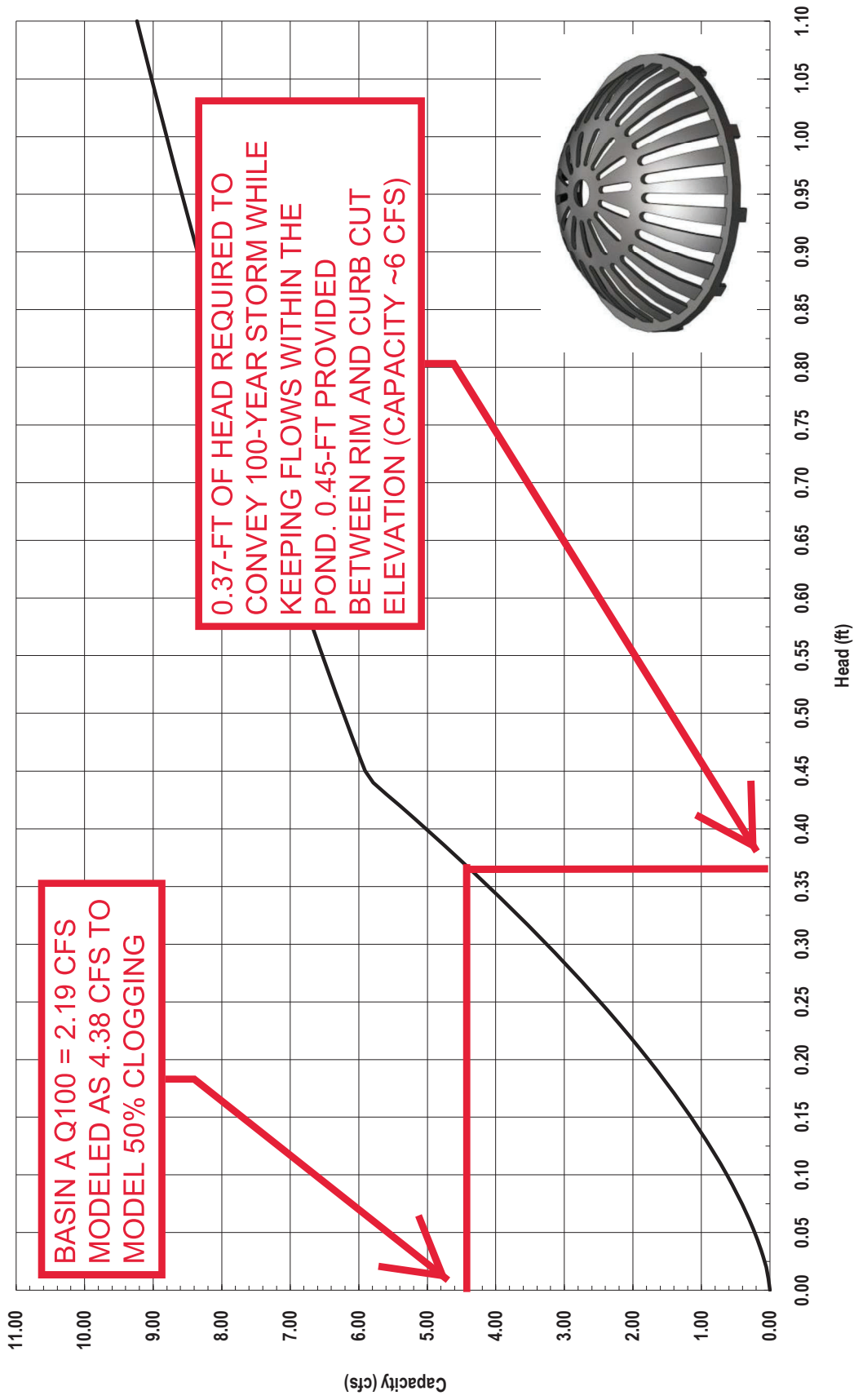
Highlighted

Depth (ft) = 0.50
Q (cfs) = 3.884
Area (sqft) = 1.00
Velocity (ft/s) = 3.88
Wetted Perim (ft) = 3.00
Crit Depth, Yc (ft) = 0.49
Top Width (ft) = 2.00
EGL (ft) = 0.73



MONTEREY PLACE INLET A3

Nyloplast 24" Dome Grate Inlet Capacity Chart

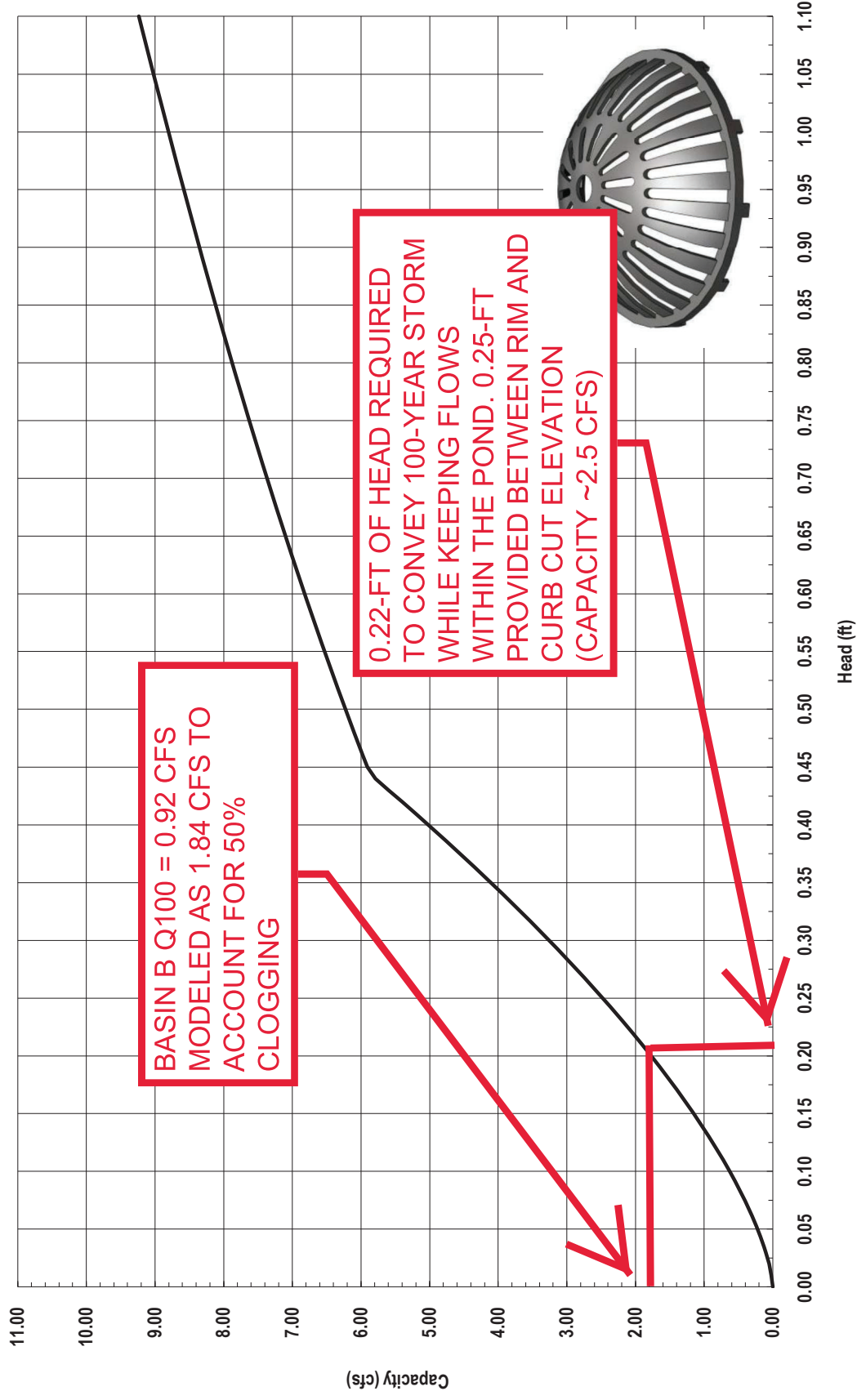


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MONTEREY PLACE INLET B3

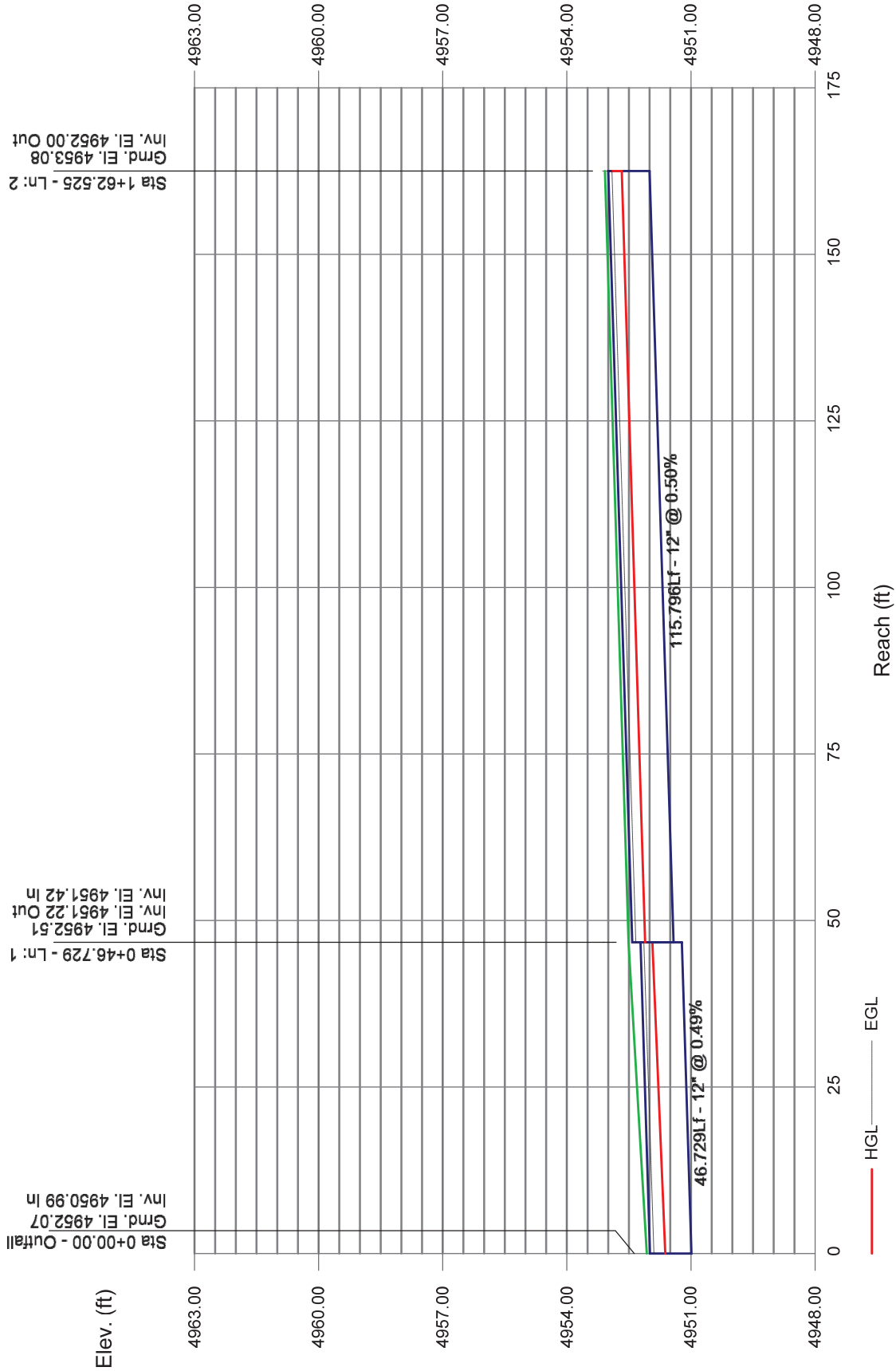
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Storm Sewer Profile



Storm Sewer Profile

