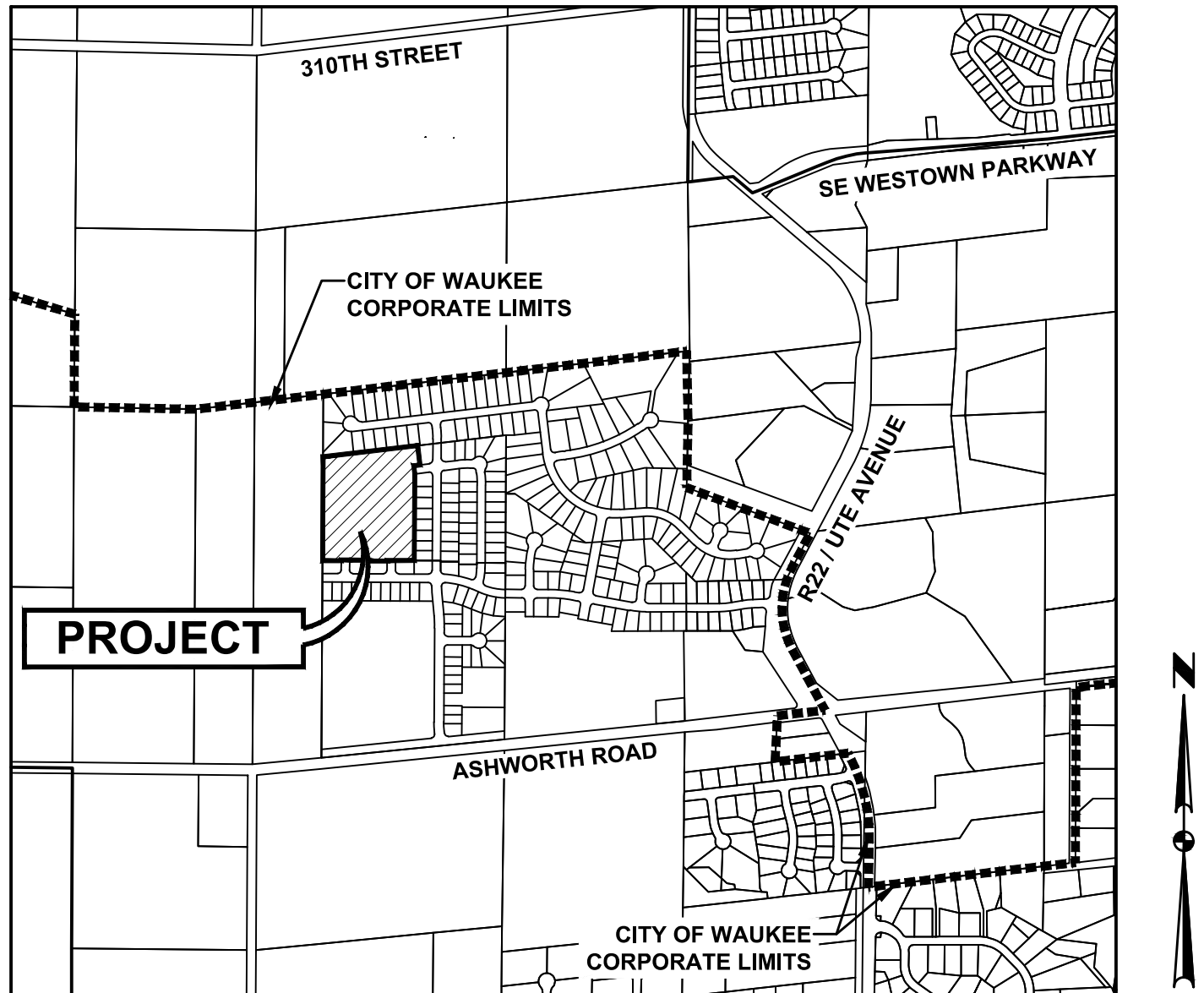


CONSTRUCTION PLANS FOR: ASHWORTH ACRES PLAT 3

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

DEVELOPER / APPLICANT

ASHWORTH LAND, LLC
9550 HICKMAN ROAD, SUITE 101
CLIVE, IA 50325

ENGINEER / SURVEYOR

CIVIL DESIGN ADVANTAGE, LLC
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PH: 515-369-4400
CONTACT: ERIN OLLENDIKE

ZONING

EXISTING: R-2: ONE AND TWO-FAMILY
RESIDENTIAL DISTRICT

DEVELOPMENT SUMMARY:

TOTAL AREA OF SITE = 12.00 ACRES
(522,542 SF)

PARKLAND DEDICATION

PARKLAND REQUIRED:
LOW DENSITY RESIDENTIAL: 40 UNITS * 3
PERSONS/HOUSEHOLD * 6/1000 = 0.72 AC

PARKLAND PROVIDED W/ PLAT 1 IMPROVEMENTS:
2.30 AC

DATE OF SURVEY:

DECEMBER 22, 2017

SUBMITTALS

FIRST SUBMITTAL: 01/12/2021
SECOND SUBMITTAL: 01/29/2021
FINAL SUBMITTAL: 02/10/2021

BULK REGULATIONS:

R-2
FRONT YARD: 30 FEET
SIDE YARD: A TOTAL OF 15 FEET; ONE SIDE MAY BE REDUCED TO NOT
LESS THAN 7 FEET
REAR YARD: 30 FEET

BENCHMARKS

CAPPED REBAR ON EAST BOUNDARY LINE 35 FEET SOUTH OF DAYBREAK
DRIVE.
ELEVATION=1019.51

CAPPED 1/2" REBAR ON EAST BOUNDARY LINE 500 FEET +/- NORTH OF
DAY BREAK DRIVE.
ELEVATION=1028.95

DALLAS COUNTY BM# G121, EAST SIDE OF R16 0.1 MILE SOUTH OF 300TH
STREET.
ELEVATION=1032.82

BURY BOLT ON HYDRANT @ NW CORNER OF DAYBREAK DRIVE & CRESCENT
DRIVE.
ELEVATION=1023.95

NOTES

1. ANY CHANGES PROPOSED TO THE CONSTRUCTION DRAWINGS DURING
CONSTRUCTION SHALL BE APPROVED IN WRITING BY THE DEVELOPMENT
SERVICES DEPARTMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES MADE DURING
CONSTRUCTION THAT HAVE NOT BEEN GRANTED APPROVAL IN WRITING BY
THE DEVELOPMENT SERVICES DEPARTMENT.
3. THE RESULTS OF THE GEOTECHNICAL REPORT ARE TO BE PROVIDED TO
THE CITY OF WAUKEE ENGINEERING DEPARTMENT. THE CONSTRUCTION
DRAWINGS ARE SUBJECT TO ANY CHANGES REQUIRED BY THE REPORT.

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2-3	TYPICAL SECTIONS AND DETAILS
4	QUANTITIES, GENERAL NOTES AND BID ITEM REFERENCE NOTES
5	HYDRANT COVERAGE
6	GRADING PLAN
7	EROSION AND SEDIMENT CONTROL PLAN
8-15	SANITARY & STORM SEWER PLAN AND PROFILE
16-21	WATER MAIN PLAN AND PROFILE
22-23	INTERSECTION DETAILS

AS-BUILT DRAWINGS

AS-BUILT PLANS ARE BASED ON SURVEYED INVERT ELEVATIONS AND
INFORMATION SUPPLIED BY THE CONTRACTOR. CIVIL DESIGN
ADVANTAGE TAKES NO RESPONSIBILITY FOR UNAUTHORIZED CHANGES
TO THE PLANS WITHOUT CITY/OWNER KNOWLEDGE. FIELD VERIFICATION
OF UTILITIES OR OTHER PLAN ELEMENTS IS ALWAYS RECOMMENDED.

LEGAL DESCRIPTION

A PART OF PARCEL 'A' AND PARCEL 'B' OF THE SOUTHEAST QUARTER, AS SHOWN ON THE PLAT OF
SURVEY RECORDED IN BOOK 1998, PAGE 360, BEING IN SECTION 6, TOWNSHIP 78 NORTH, RANGE 26 WEST
OF THE 5TH PRINCIPAL MERIDIAN IN THE CITY OF WAUKEE, DALLAS COUNTY, IOWA AND MORE
PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF ASHWORTH ACRES PLAT 1, AN OFFICIAL PLAT; THENCE NORTH
00°18'08" EAST ALONG THE WESTERLY LINE OF SAID PARCEL 'A', 747.04 FEET TO THE NORTHWEST CORNER
OF SAID PARCEL 'A'; THENCE NORTH 83°15'36" EAST ALONG THE NORTHERLY LINE OF SAID PARCEL 'A'
AND PARCEL 'B', 685.42 FEET; THENCE SOUTH 06°44'24" EAST, 140.00 FEET; THENCE SOUTH 83°15'36"
WEST, 45.11 FEET; THENCE SOUTH 06°44'24" EAST, 60.00 FEET; THENCE SOUTH 00°18'08" WEST, 622.68
FEET TO THE NORTHERLY LINE OF SAID ASHWORTH ACRES PLAT 1; THENCE CONTINUING SOUTH 00°18'08"
WEST ALONG SAID NORTHERLY LINE, 2.20 FEET; THENCE NORTH 89°41'52" WEST CONTINUING ALONG SAID
NORTHERLY LINE, 195.00 FEET; THENCE SOUTH 00°18'08" WEST CONTINUING ALONG SAID NORTHERLY LINE,
3.50 FEET; THENCE NORTH 89°41'52" WEST CONTINUING ALONG SAID NORTHERLY LINE, 135.00 FEET;
THENCE NORTH 00°18'08" EAST CONTINUING ALONG SAID NORTHERLY LINE, 6.50 FEET; THENCE NORTH
89°41'52" WEST CONTINUING ALONG SAID NORTHERLY LINE, 195.00 FEET; THENCE SOUTH 00°18'08" WEST
CONTINUING ALONG SAID NORTHERLY LINE, 5.17 FEET; THENCE NORTH 89°41'52" WEST CONTINUING ALONG
SAID NORTHERLY LINE, 135.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 12.00 ACRES (522,542
SQUARE FEET). THE PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.

UTILITY NOTE

ANY UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY AND RECORDS OBTAINED BY THIS
SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES
IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE
UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN.

GENERAL LEGEND

PROPOSED

SECTION LINE	----
CENTER LINE	----
RIGHT OF WAY	--- R/W ---
PERMANENT EASEMENT	--- P/E ---
TEMPORARY EASEMENT	--- T/E ---
TYPE SW-501 STORM INTAKE	
TYPE SW-503 STORM INTAKE	
TYPE SW-505 STORM INTAKE	
TYPE SW-506 STORM INTAKE	
TYPE SW-513 STORM INTAKE	
TYPE SW-401 STORM MANHOLE	
TYPE SW-402 STORM MANHOLE	
TYPE SW-301 SANITARY MANHOLE	
STORM/SANITARY CLEANOUT	
WATER VALVE	
FIRE HYDRANT ASSEMBLY	
SIGN	
DETECTABLE WARNING PANEL	
WATER CURB STOP	
STORM SEWER STRUCTURE NO.	
STORM SEWER PIPE NO.	
SANITARY SEWER STRUCTURE NO.	
SANITARY SEWER PIPE NO.	
SANITARY SEWER WITH SIZE	8"S
SANITARY SERVICE	S S
STORM SEWER	ST ST
STORM SERVICE	ST ST
WATERMAIN WITH SIZE	8"W
WATER SERVICE	W W
SAWCUT (FULL DEPTH)	
SILT FENCE	
USE AS CONSTRUCTED	(UAC)
TOP OF PROPOSED GROUND	TG
MINIMUM PROTECTION ELEVATION	MPE
MINIMUM GRADE AT EXPOSED STRUCTURE	MGS

EXISTING

SANITARY MANHOLE	
WATER VALVE BOX	
FIRE HYDRANT	
WATER CURB STOP	
WELL	
STORM SEWER MANHOLE	
STORM SEWER SINGLE INTAKE	
STORM SEWER DOUBLE INTAKE	
FLARED END SECTION	
DECIDUOUS TREE	
CONIFEROUS TREE	
DECIDUOUS SHRUB	
CONIFEROUS SHRUB	
ELECTRIC POWER POLE	
GUY ANCHOR	
STREET LIGHT	
POWER POLE W/ TRANSFORMER	
UTILITY POLE W/ LIGHT	
ELECTRIC BOX	
ELECTRIC TRANSFORMER	
ELECTRIC MANHOLE OR VAULT	
TRAFFIC SIGN	
TELEPHONE JUNCTION BOX	
TELEPHONE MANHOLE/VAULT	
TELEPHONE POLE	
GAS VALVE BOX	
CABLE TV JUNCTION BOX	
CABLE TV MANHOLE/VAULT	
MAIL BOX	
BENCHMARK	
SOIL BORING	
UNDERGROUND TV CABLE	TV
GAS MAIN	G
FIBER OPTIC	FO
UNDERGROUND TELEPHONE	T
OVERHEAD ELECTRIC	OE
UNDERGROUND ELECTRIC	E
FIELD TILE	TILE
SANITARY SEWER W/ SIZE	8"S
STORM SEWER W/ SIZE	15" RCP
WATER MAIN W/ SIZE	8"W

ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE SOILS REPORT
PREPARED BY CONSTRUCTION MATERIALS TESTING (CMT), (PN 1802025AAA) DATED MAY 4, 2018.

THIS PROJECT REQUIRES AN IOWA NPDES PERMIT #2. CIVIL DESIGN ADVANTAGE WILL PROVIDE THE
PERMITS AND THE INITIAL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE CONTRACTORS
USE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE SWPPP
THROUGHOUT CONSTRUCTION AND MEETING LOCAL, STATE AND FEDERAL REQUIREMENTS.

THIS DESIGN SPECIFICALLY PREPARED FOR USE AT THE LOCATION SHOWN. USE IN ANY OTHER MANNER
EXCEEDS THE INTENDED PURPOSE OF THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS.

THE MOST RECENT EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC
IMPROVEMENTS AND THE 2021 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL
WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.



CIVIL DESIGN ADVANTAGE

3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111

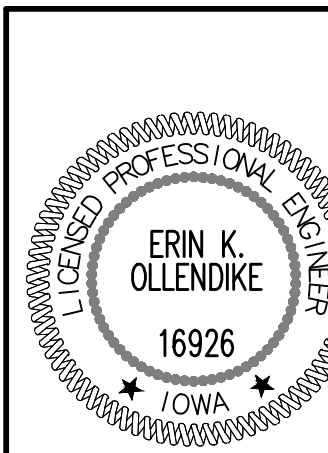
PH: (515) 369-4400 Fax: (515) 369-4410

PROJECT NO. 2012.685



1-800-292-8989

www.iowaonecall.com



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS
PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF IOWA.

Erin K. Ollendike

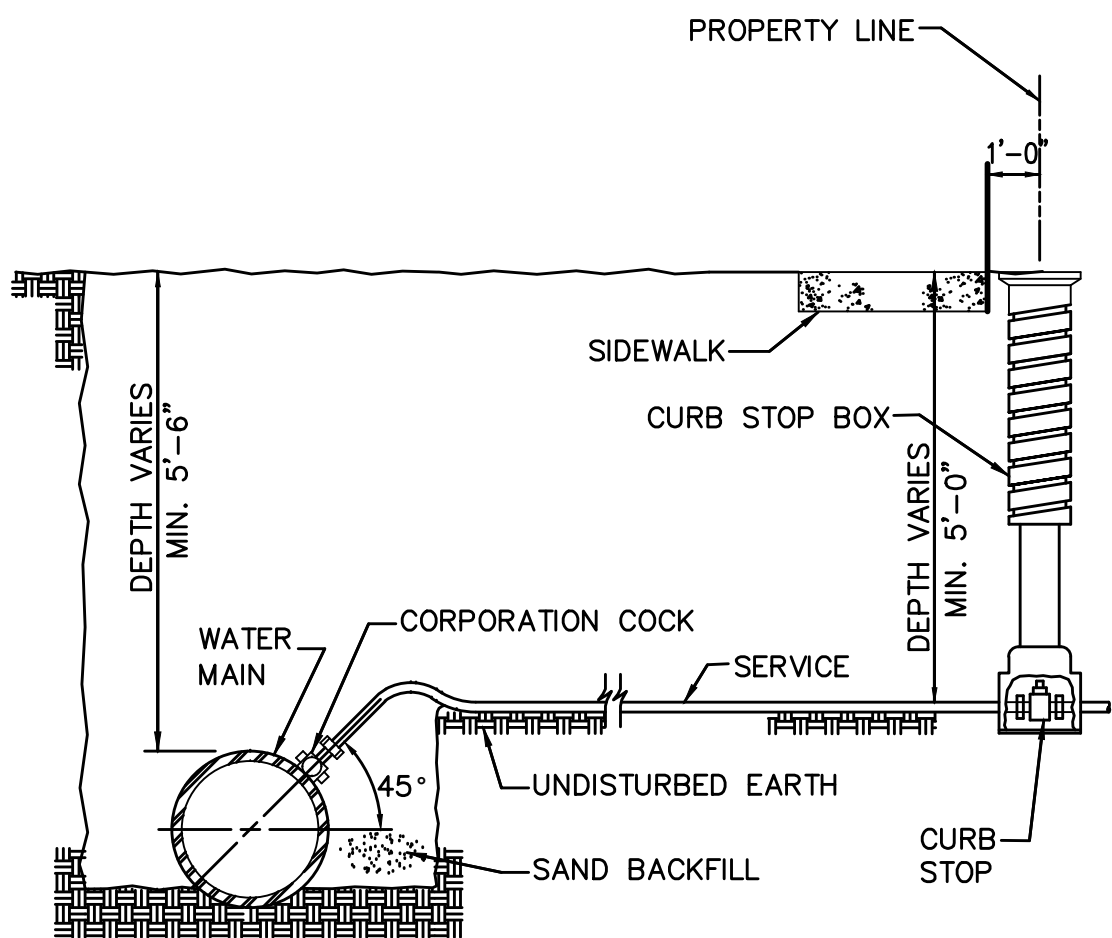
12-07-2021

ERIN K. OLLENDIKE, P.E.

DATE

LICENSE NUMBER 16926
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021
PAGES OR SHEETS COVERED BY THIS SEAL:

SHEETS 1-23

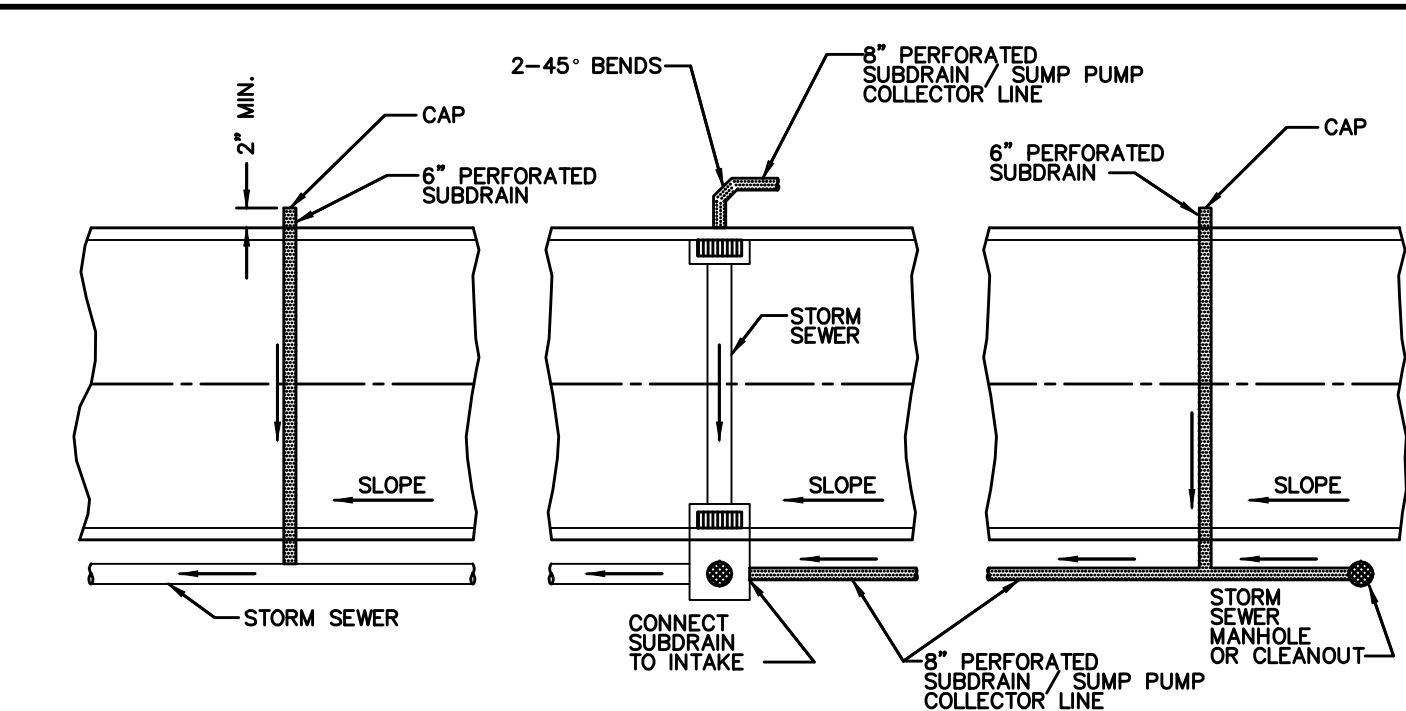


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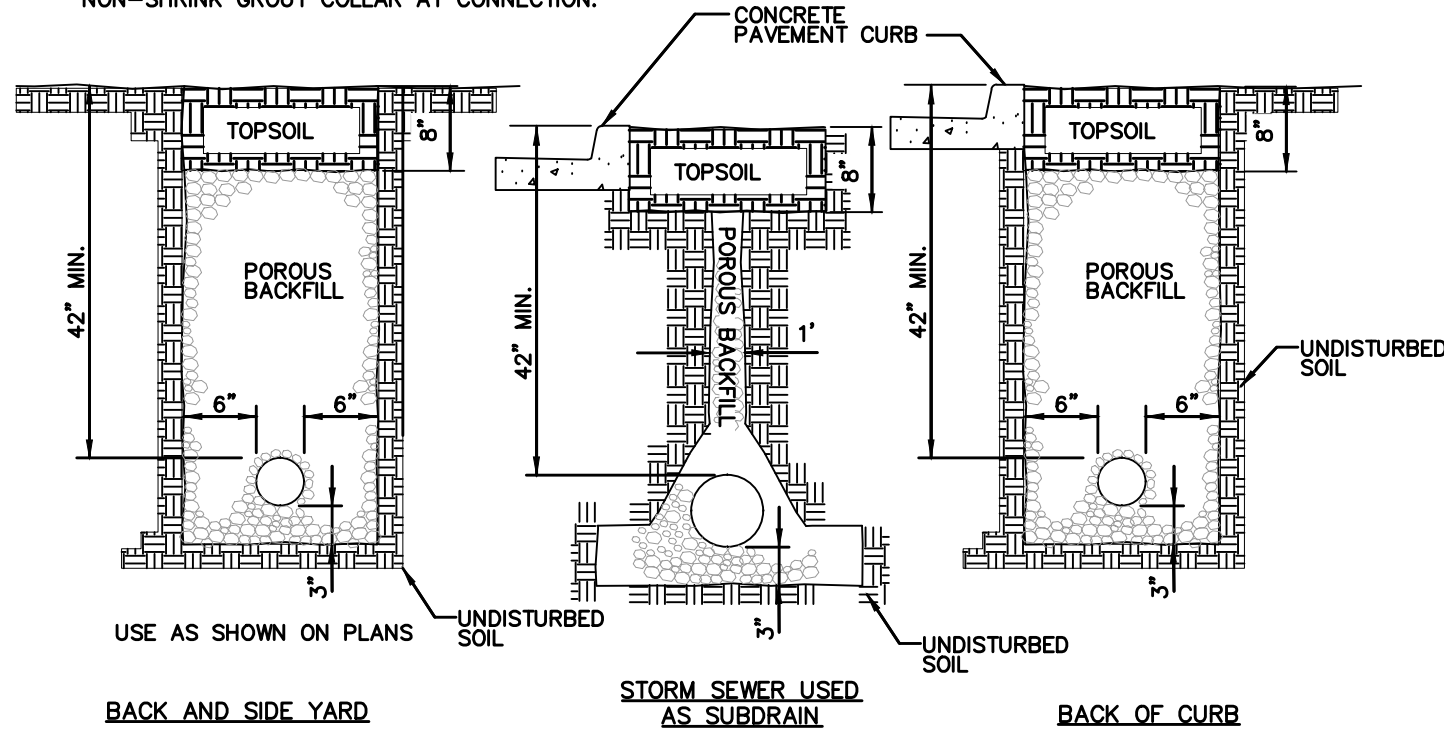
1. TERMINATE CURB STOP BOX ROD 1'-6" BELOW FINISHED GRADE.

WATER SERVICE CONNECTION

NOT TO SCALE



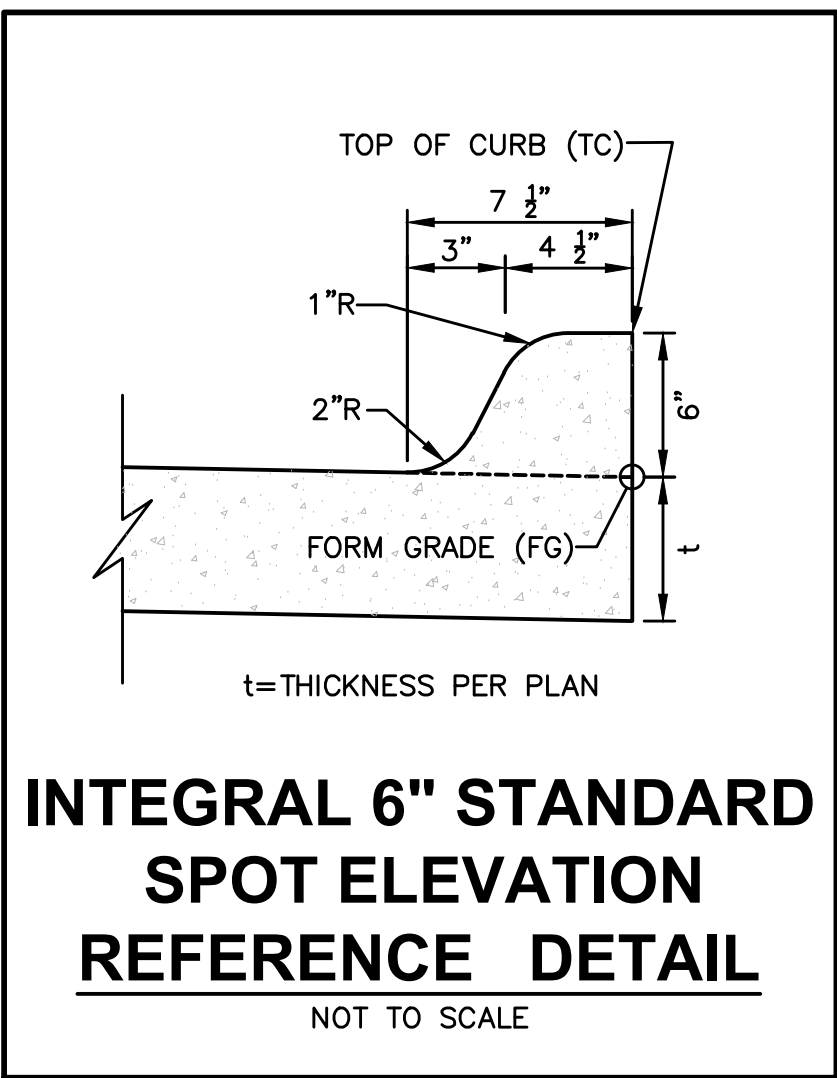
NOTE:
CORE DRILL ALL STORM SEWER AND PLACE NON-SHRINK GROUT COLLAR AT CONNECTION.



NOTES:

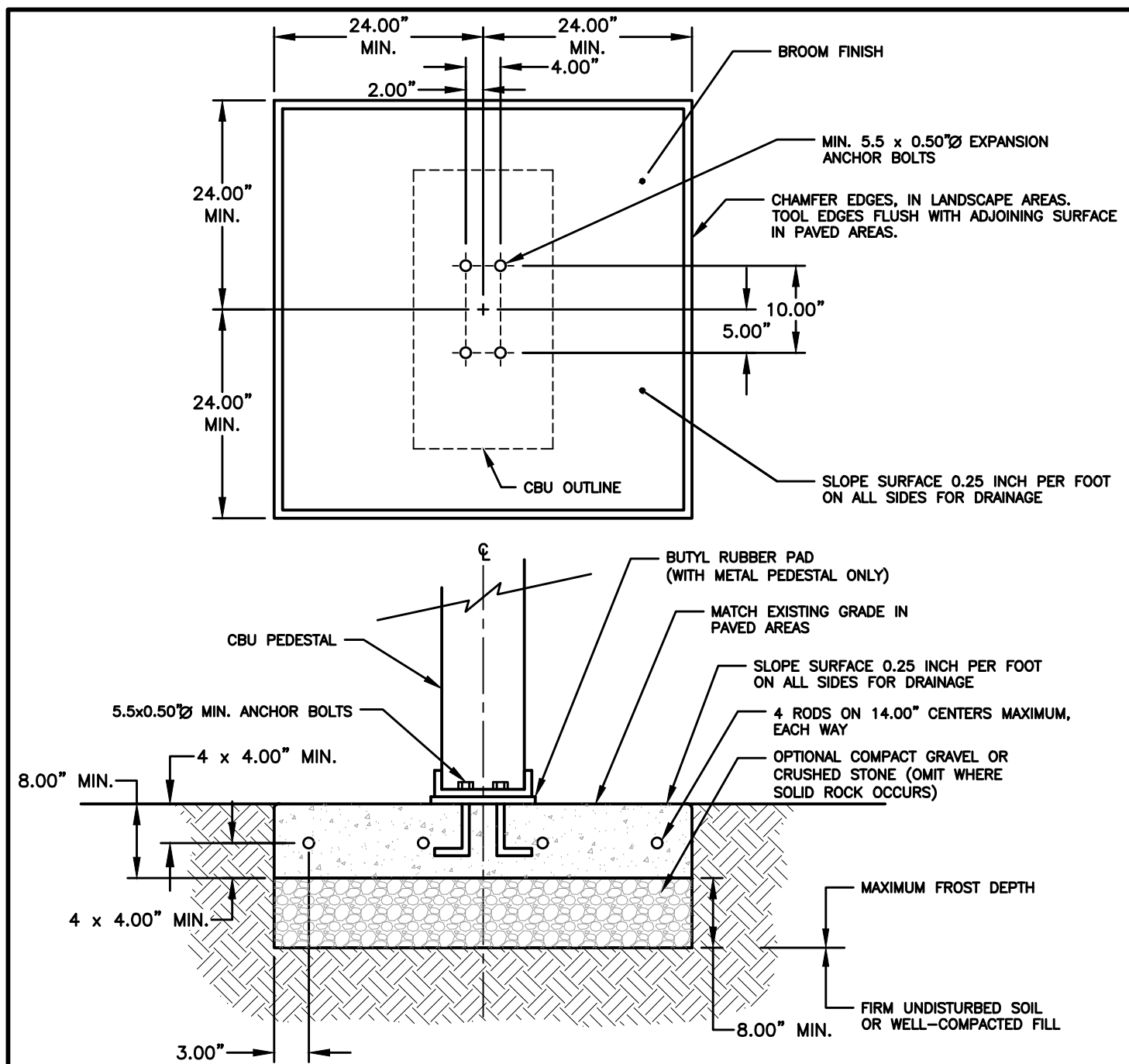
1. SLOPE SUBDRAINS TO DRAIN.
2. 6" BACK OF CURB SUBDRAINS AND ALL BACK AND SIDE YARD SUBDRAINS; USE PEA GRAVEL FOR POROUS BACKFILL.
3. DIRECT PERFORATIONS DOWN FOR SUBDRAINS AND UP FOR SUMP PUMP COLLECTOR LINES.

6" PERFORATED SUBDRAIN



INTEGRAL 6" STANDARD SPOT ELEVATION REFERENCE DETAIL

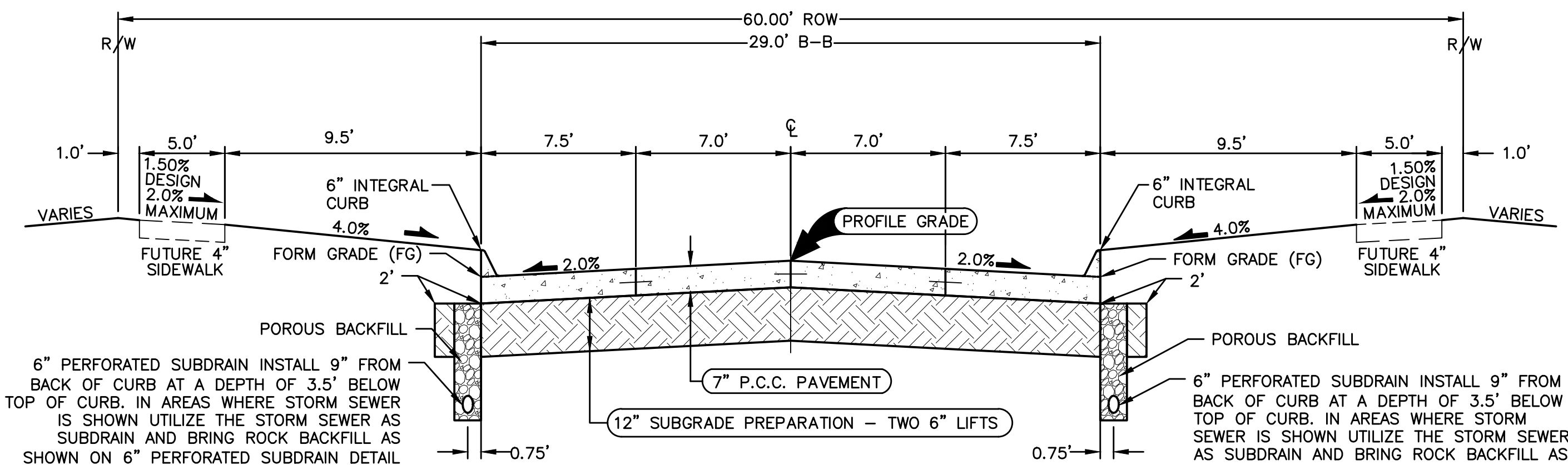
NOT TO SCALE



- NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN. - 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50" - 4.00" SLUMP IN ACCORDANCE WITH ACI 301.
 2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
 3. EXPANSION BOLTS SHALL BE EQUIVALENT TO THE FOLLOWING PROVIDERS:
A. HILTI KWIK BOLT (WWW.HILTI.COM) 1/2" DIAMETER X 5-1/2" OVERALL LENGTH. GALVANIZED, CATALOG # 000-453-686 KB II 12-512, STAINLESS STEEL: CATALOG # 000-454-744. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3-1/2".
B. ITW RAMSET REDHEAD TRUBOLT (WWW.RAMSET-REDHEAD.COM) GALVANIZED, 1/2" DIAMETER X 7" OVERALL LENGTH; CATALOG NUMBER: WS-12705. ENSURE THAT MIN. EMBEDMENT IS CONCRETE IS AT LEAST 4-1/8".
C. RAWL STUD (WWW.RAWL.COM) GALVANIZED, 1/2" X 5-1/2" OVERALL LENGTH; CATALOG NUMBER: 7724. ENSURE THAT MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4".

MAILBOX CLUSTER PAD DETAIL

NOT TO SCALE



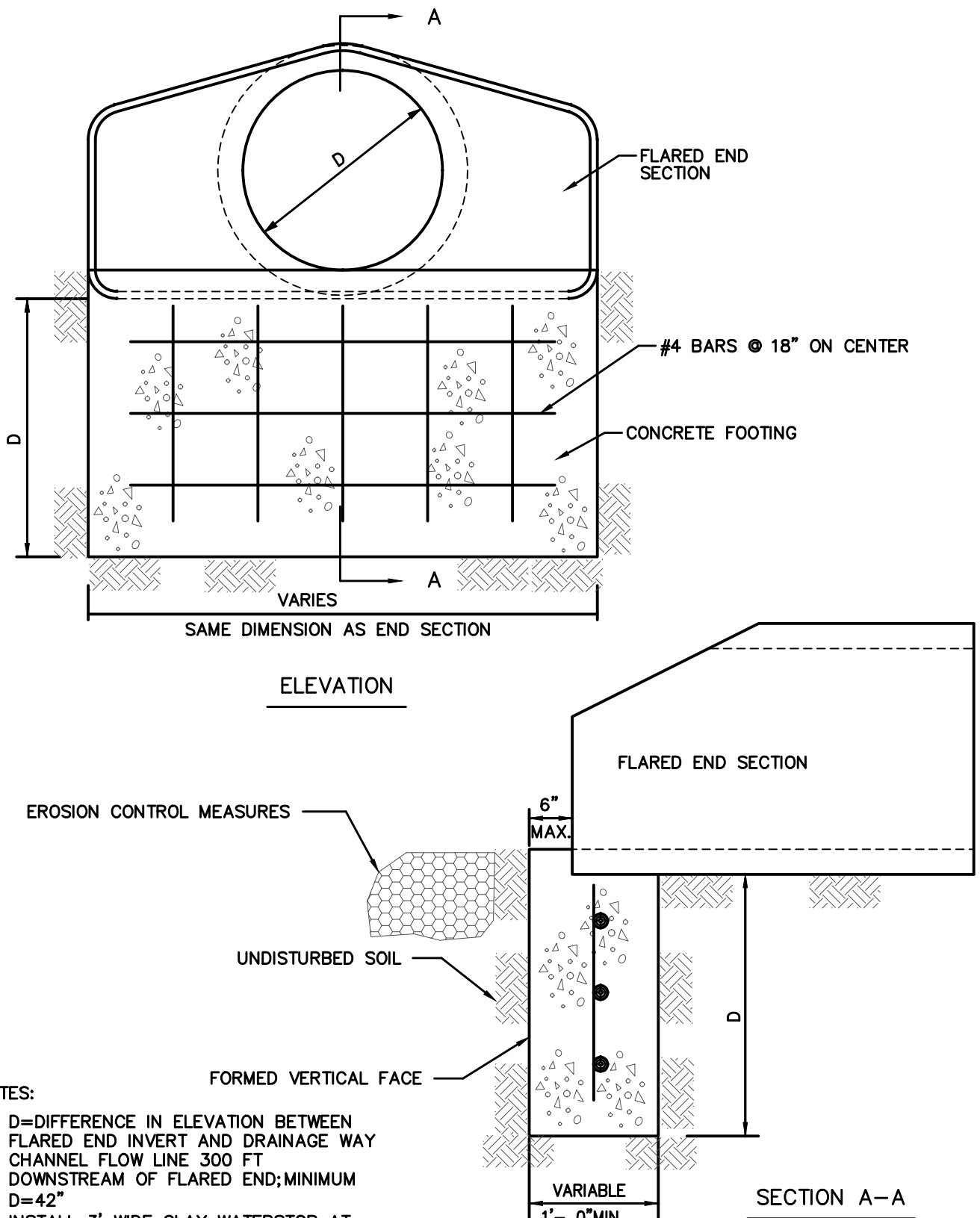
NOTES:

1. PREPARE SUBGRADE IN 2 - 6" LIFTS.
2. MAXIMUM C JOINT SPACING IS 15'.

29' B/B P.C.C. ROADWAY WITH 60' R.O.W.

NOT TO SCALE

ASHLER DRIVE, ADOBE DRIVE, AVALON DRIVE



NOTES:

1. D=DIFFERENCE IN ELEVATION BETWEEN FLARED END INVERT AND DRAINAGE WAY CHANNEL FLOW LINE 300 FT DOWNSTREAM OF FLARED END; MINIMUM D=42"
2. INSTALL 3' WIDE CLAY WATERSTOP AT FLARED END SECTION PIPE JOINT.
3. TRASH GUARDS ARE NOT ALLOWED ON PIPES 48" OR LARGER.

REINFORCING BAR LIST

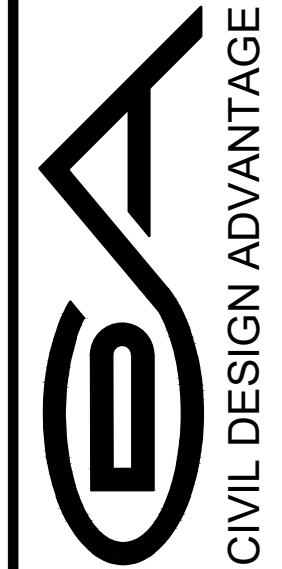
D	W	Mark	Size	Length	Count	D	W	Mark	Size	Length	Count
12"	2'-4"	4f1	4	2'-0"	3	48"	7'-10"	4f1	4	7'-6"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
15"	2'-10"	4f1	4	2'-6"	3	54"	8'-5"	4f1	4	8'-1"	3
		4f2	4	3'-8"	2			4f2	4	3'-8"	6
18"	3'-5"	4f1	4	3'-1"	3	60"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	3			4f2	4	3'-8"	6
24"	4'-6"	4f1	4	4'-2"	3	66"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	3			4f2	4	3'-8"	6
30"	5'-7"	4f1	4	5'-3"	3	72"	10'-0"	4f1	4	9'-8"	3
		4f2	4	3'-8"	4			4f2	4	3'-8"	7
36"	6'-8"	4f1	4	6'-4"	3	78"	10'-7"	4f1	4	10'-3"	3
		4f2	4	3'-8"	5			4f2	4	3'-8"	7
42"	7'-3"	4f1	4	6'-11"	3	84"	11'-1"	4f1	4	10'-9"	3
		4f2	4	3'-8"	5			4f2	4	3'-8"	8

RCP APRON FOOTING DETAIL

NOT TO SCALE

DATE	REVISIONS
07/28/2021	AS-BUILT SUBMITTAL
02/10/2021	FINAL SUBMITTAL
01/29/2021	SECOND SUBMITTAL
01/12/2021	FIRST SUBMITTAL

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
EI: GH



CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

ASHWORTH ACRES PLAT 3
TYPICAL SECTIONS AND DETAILS



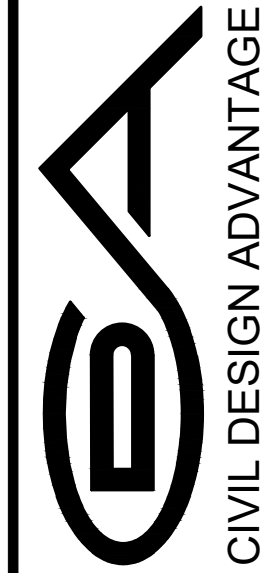
ASHWORTH ACRES PLAT 3

TYPICAL SECTIONS AND DETAILS

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ENGINEER: EKO

ENGINEER: GH



WAUKEE, IOWA

ASHWORTH ACRES PLAT 3

HYDRANT COVERAGE

5/23

2012.685



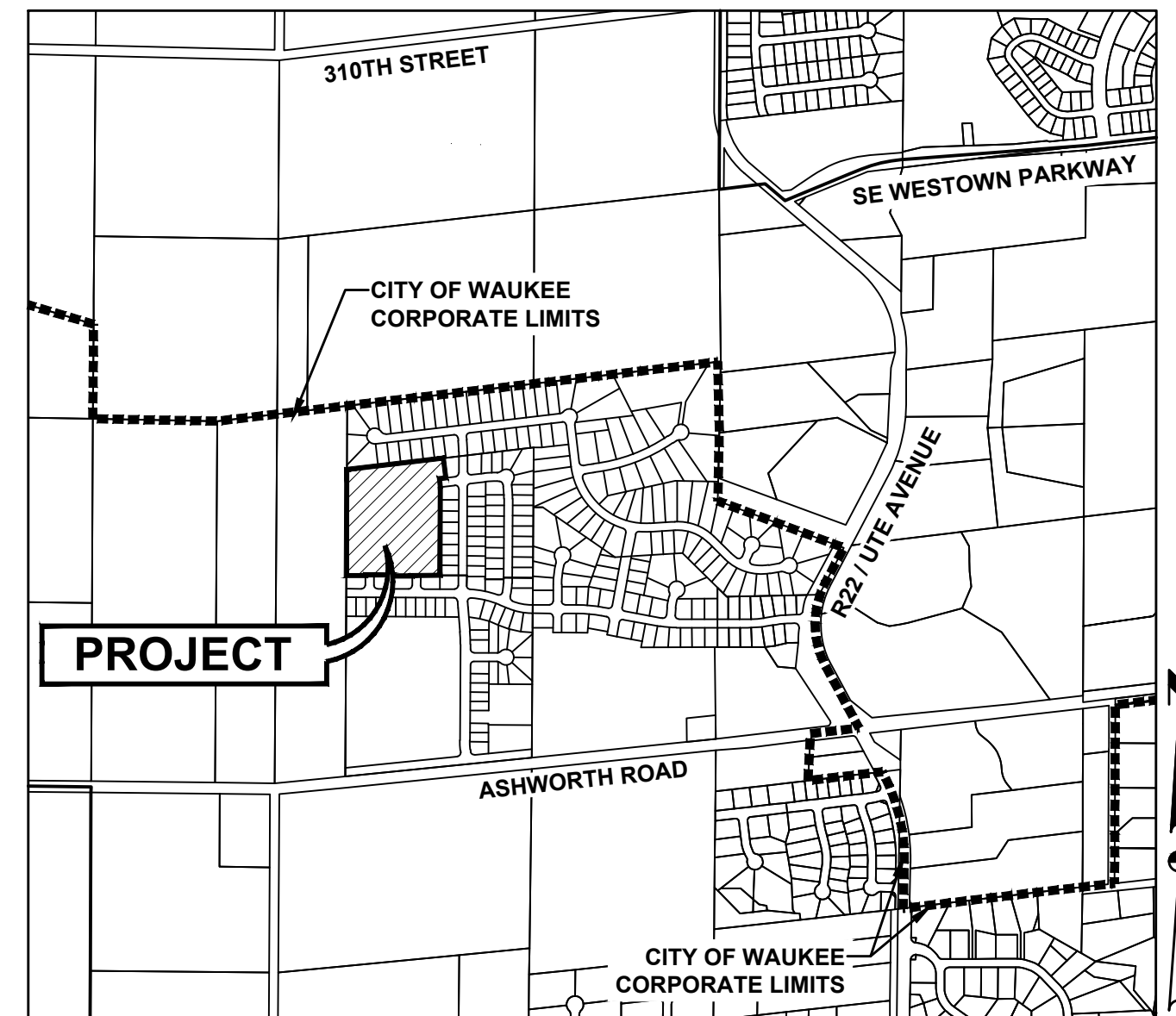
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07/28/2021	AS-BUILT SUBMITTAL
02/10/2021	FINAL SUBMITTAL
01/29/2021	SECOND SUBMITTAL
01/12/2021	FIRST SUBMITTAL

ASHWORTH ACRES PLAT 3

EROSION AND SEDIMENT CONTROL PLAN

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

STABILIZATION QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	2,893
2	FILTER SOCK	LF	117
3	SEEDING, FERTILIZING, AND MULCHING	AC	10.82
4	INLET PROTECTION DEVICES	EA	12
5	CONCRETE WASHOUT PIT	EA	1

DISCHARGE POINT SUMMARY

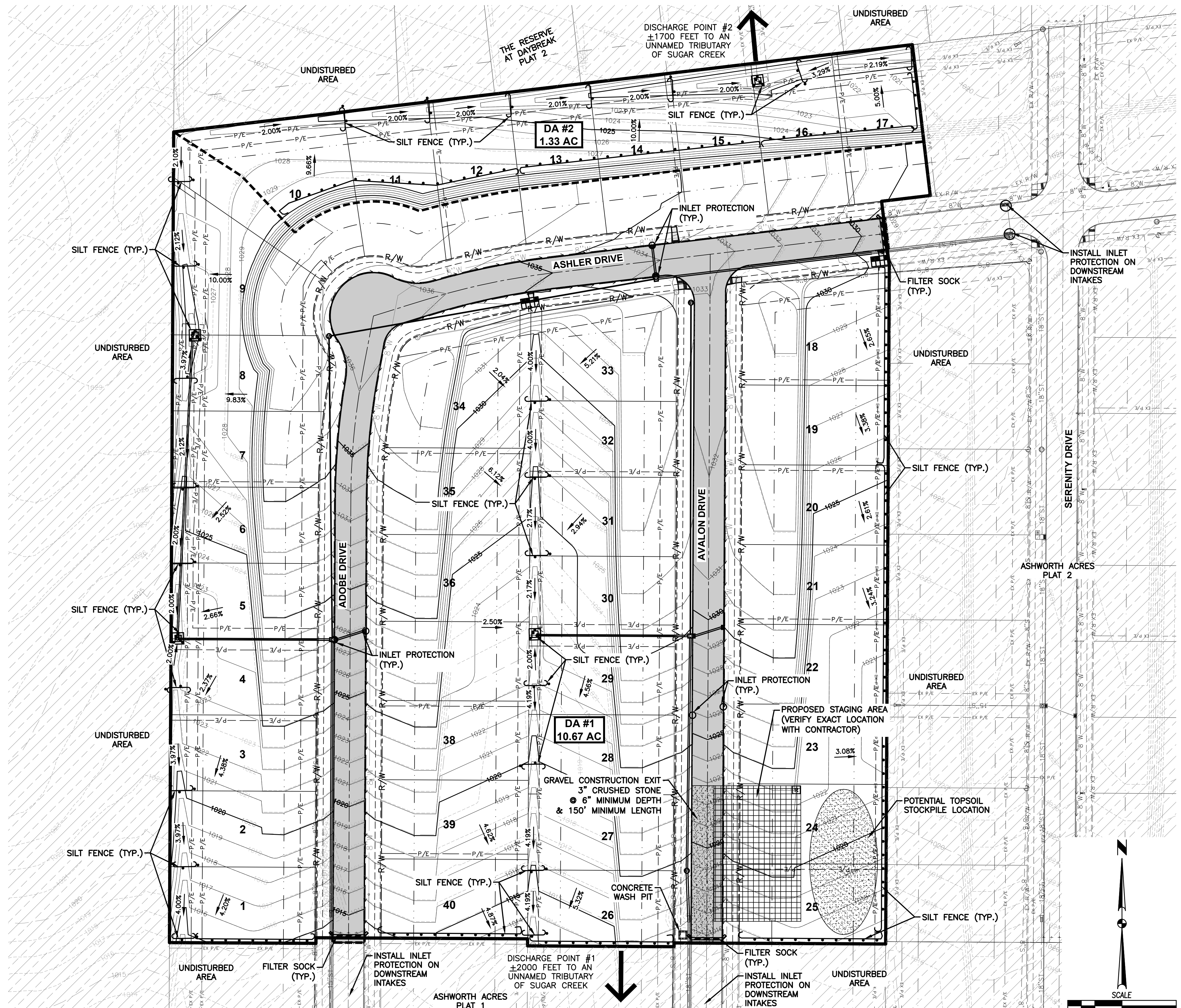
DISCHARGE POINT #1 TO AN UNNAMED TRIBUTARY OF SUGAR CREEK ±2000 FT	10.67 ACRES
TOTAL AREA DISTURBED TO DISCHARGE POINT	38,412 CU FT
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	
VOLUME PROVIDED IN FILTER SOCK (117 LF @ 2.0 CU FT/LF OF SOCK)	234 CU FT
VOLUME PROVIDED IN SILT FENCE (1,919 LF @ 9.0 CU FT/LF OF FENCE)	17,271 CU FT
VOLUME PROVIDED IN EXISTING TSB #1 (INSTALLED WITH PLAT 1)	147,715 CU FT
TOTAL VOLUME PROVIDED	165,220 CU FT
DISCHARGE POINT #2 TO AN UNNAMED TRIBUTARY OF SUGAR CREEK ±1700 FT	1.33 ACRES
TOTAL AREA DISTURBED TO DISCHARGE POINT	4,788 CU FT
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	
VOLUME PROVIDED IN SILT FENCE (974 LF @ 9.0 CU FT/LF OF FENCE)	8,766 CU FT
TOTAL VOLUME PROVIDED	8,766 CU FT

NOTES:

- IF DEWATERING IS NEEDED FOR ANY REASON, DISCHARGE OF WATER OFFSITE IS TO CONFORM WITH THE GENERAL PERMIT #2 REQUIREMENT.
- DISTURBED AREAS SHALL BE TEMPORARILY SEEDED OR MULCHED IMMEDIATELY WHENEVER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- STORM SEWERS AND DRAINAGE WAYS SHALL BE PROTECTED FROM CONCRETE SLURRY PRODUCED BY SAWCUTTING AND CONCRETE GRINDING.

SWPPP LEGEND

DRAINAGE ARROW	X.XX %	UNDISTURBED AREA
GRADING LIMITS	---	RIP-RAP
FILTER SOCK		GRAVEL ENTRANCE
SILT FENCE	---	STAGING AREA
INLET PROTECTION	○	TEMPORARY SEDIMENT BASIN
PORTABLE RESTROOM	R	
CONCRETE WASHOUT PIT	□	



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07/28/2021	AS-BUILT SUBMITTAL
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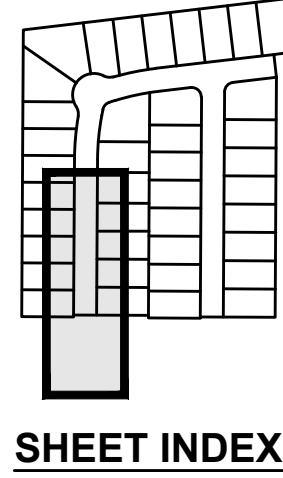
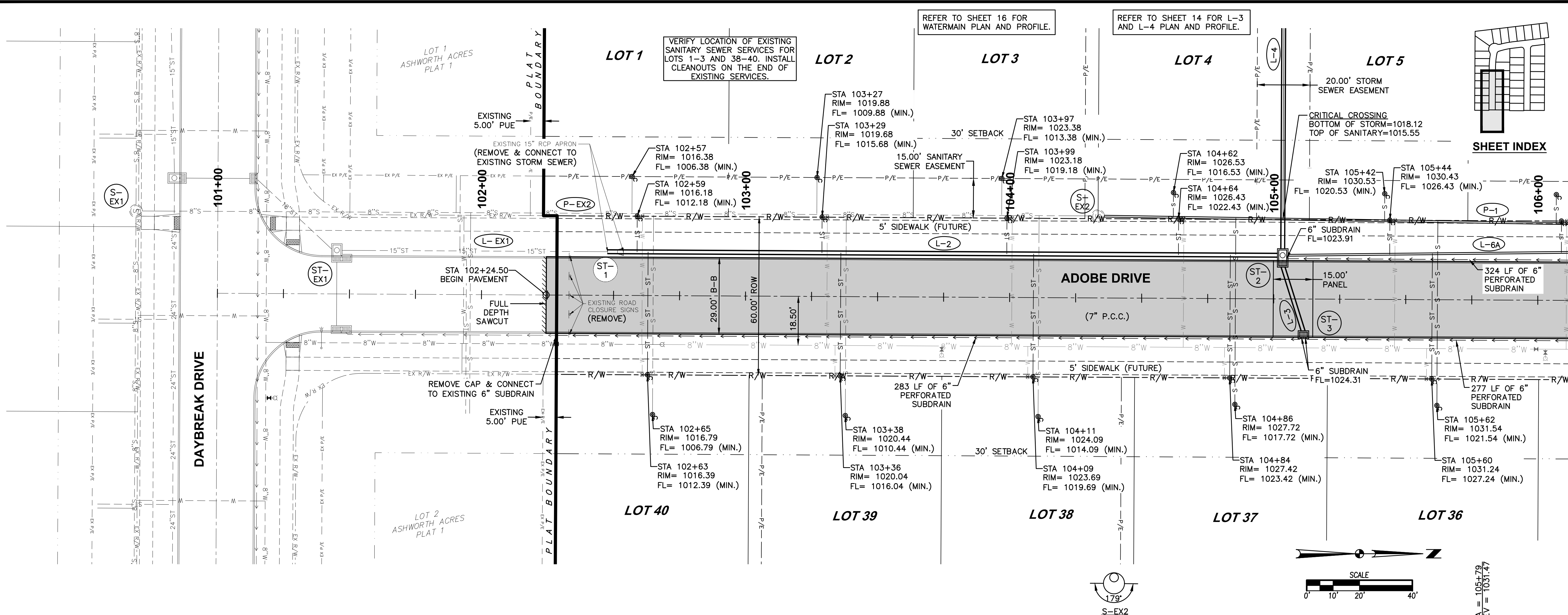
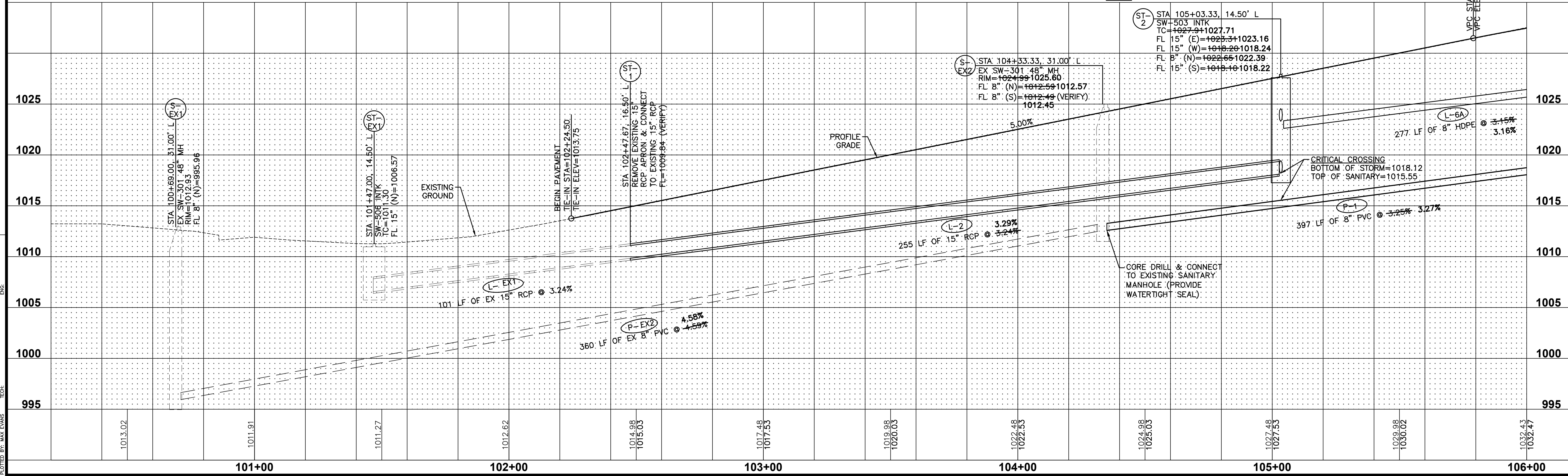
3405 S.E. CROSSROADS DRIVE, SUITE G
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ENGINEER: EKO
EI: GH



CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

ASHWORTH ACRES PLAT 3
EROSION AND SEDIMENT CONTROL PLAN

FILE: H:\2020\202685\DWG\202685-PNP-SANITARY-STORM-AS-BUILD.DWG
DATE: 7/26/2021 9:02 AM
PLOT: 7/26/2021 9:02 AM
PLOTTER: HP DesignJet 500
PLOT BY: WAK EVANS



8
23
2012.685

ASHWORTH ACRES PLAT 3
SANITARY AND STORM SEWER PLAN AND PROFILE

WAUKEE, IOWA

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO

EL: GH

DATE

AS-BUILT SUBMITTAL
07/28/2021

FINAL SUBMITTAL
02/10/2021

SECOND SUBMITTAL
01/29/2021

FIRST SUBMITTAL
01/12/2021

REVISIONS

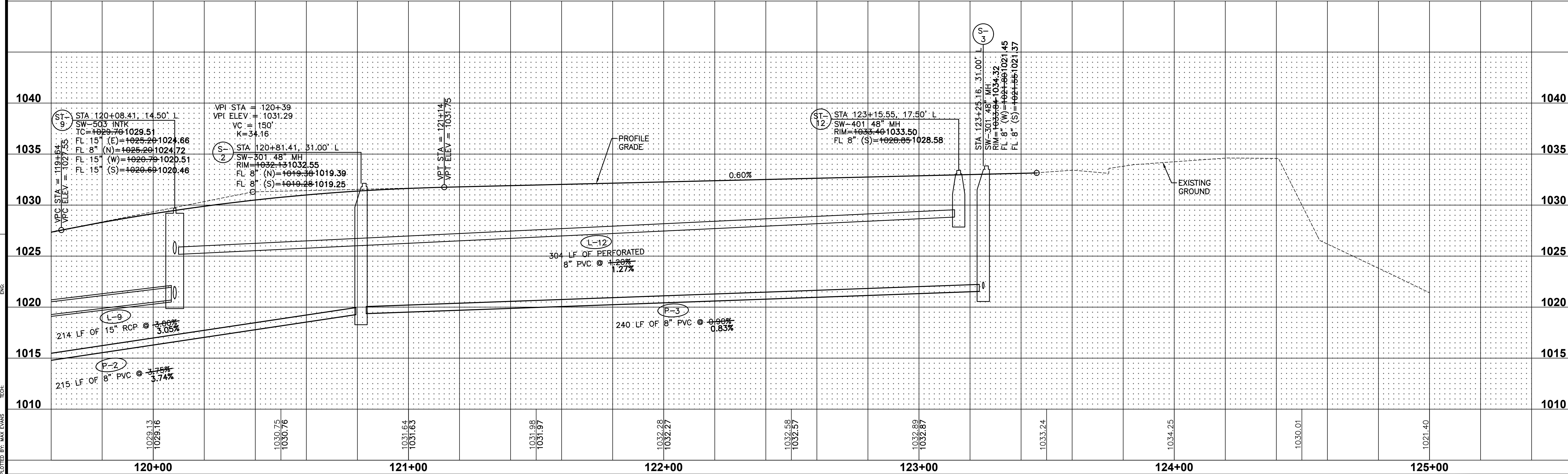
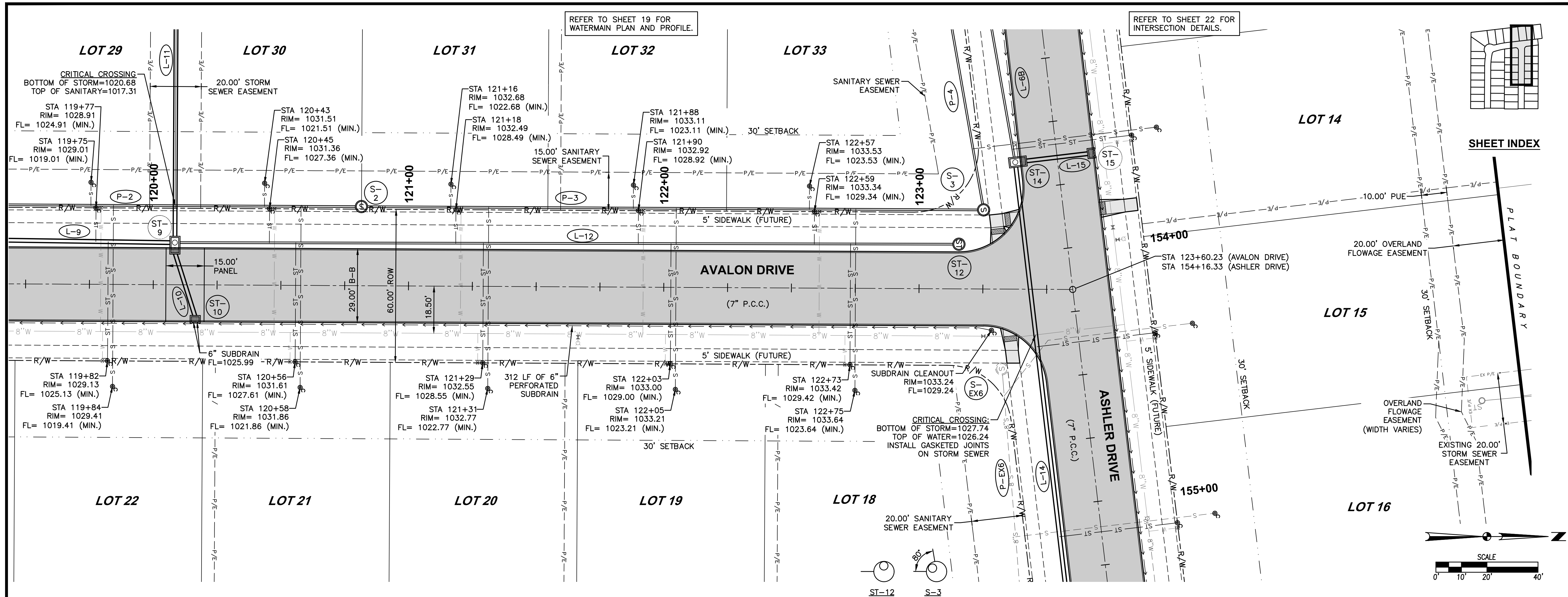
DATE

07/28/2021

02/10/2021

01/29/2021

01/12/2021

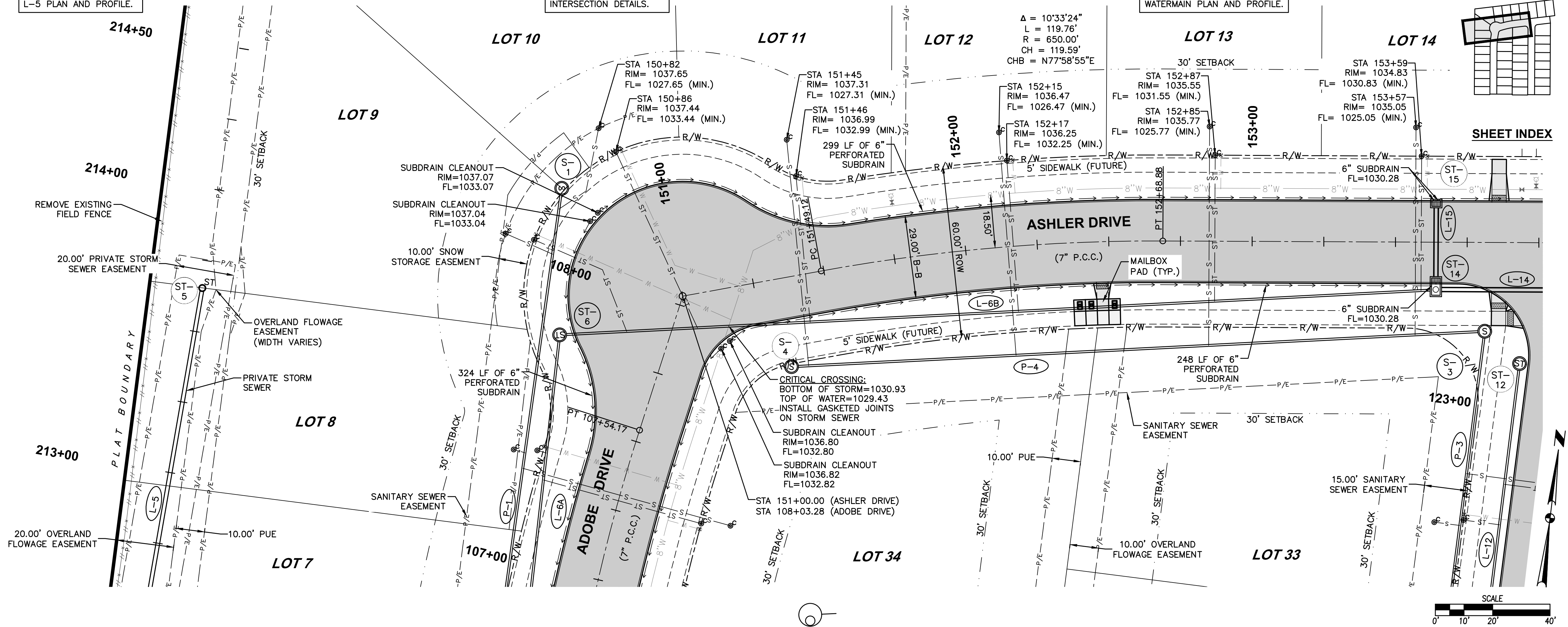


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DATE: 07/28/2021 9:04 AM
PLOT: 12/23
PLOTED BY: WAK EVANS

REFER TO SHEET 14 FOR
L-5 PLAN AND PROFILE.

REFER TO SHEET 23 FOR
INTERSECTION DETAILS.

REFER TO SHEET 20 FOR
WATERMAIN PLAN AND PROFILE.



ASHWORTH ACRES PLAT 3
SANITARY AND STORM SEWER PLAN AND PROFILE

12/23
2012.685

WAUKEE, IOWA



ENGINEER: EKO
EII: GH

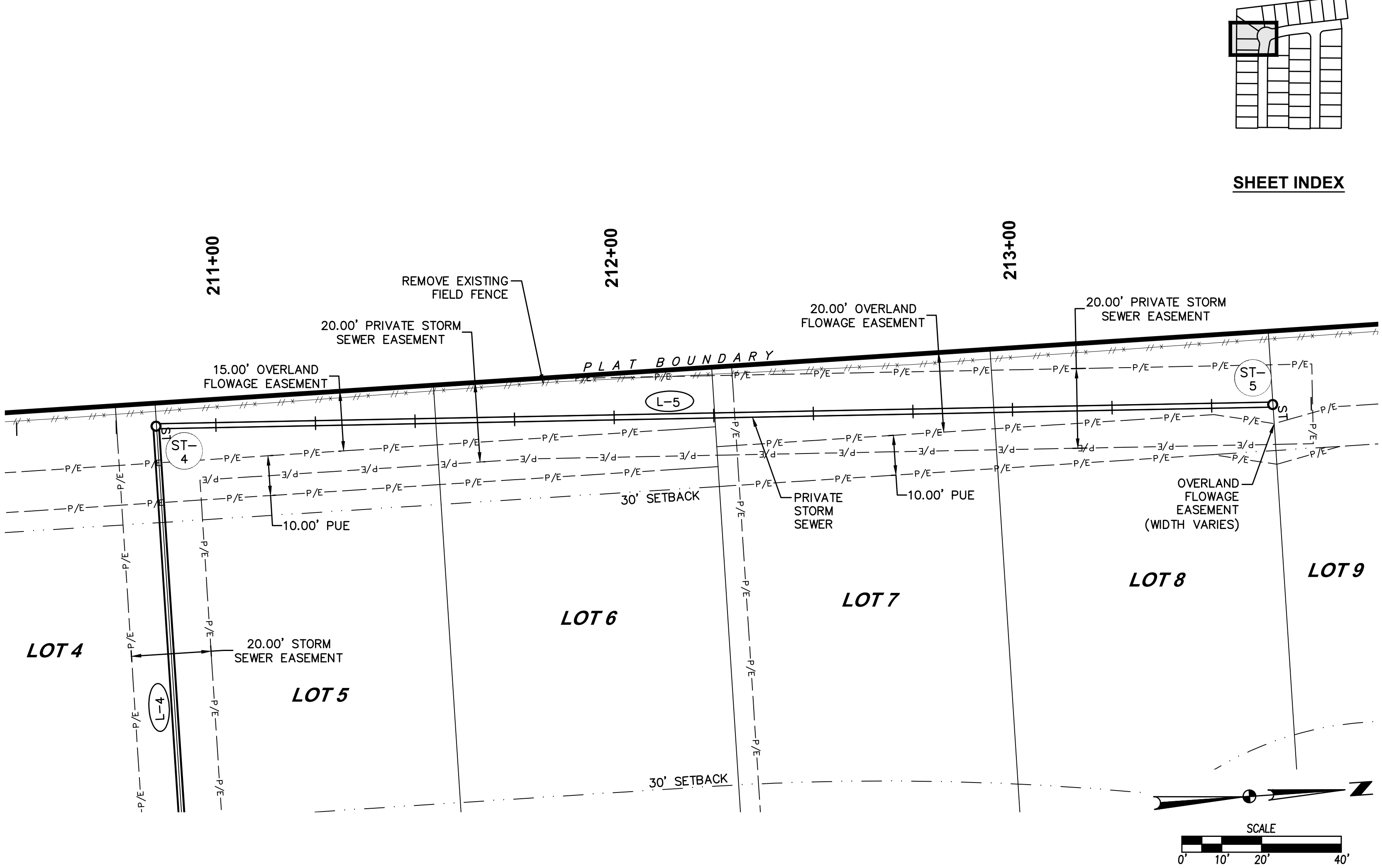
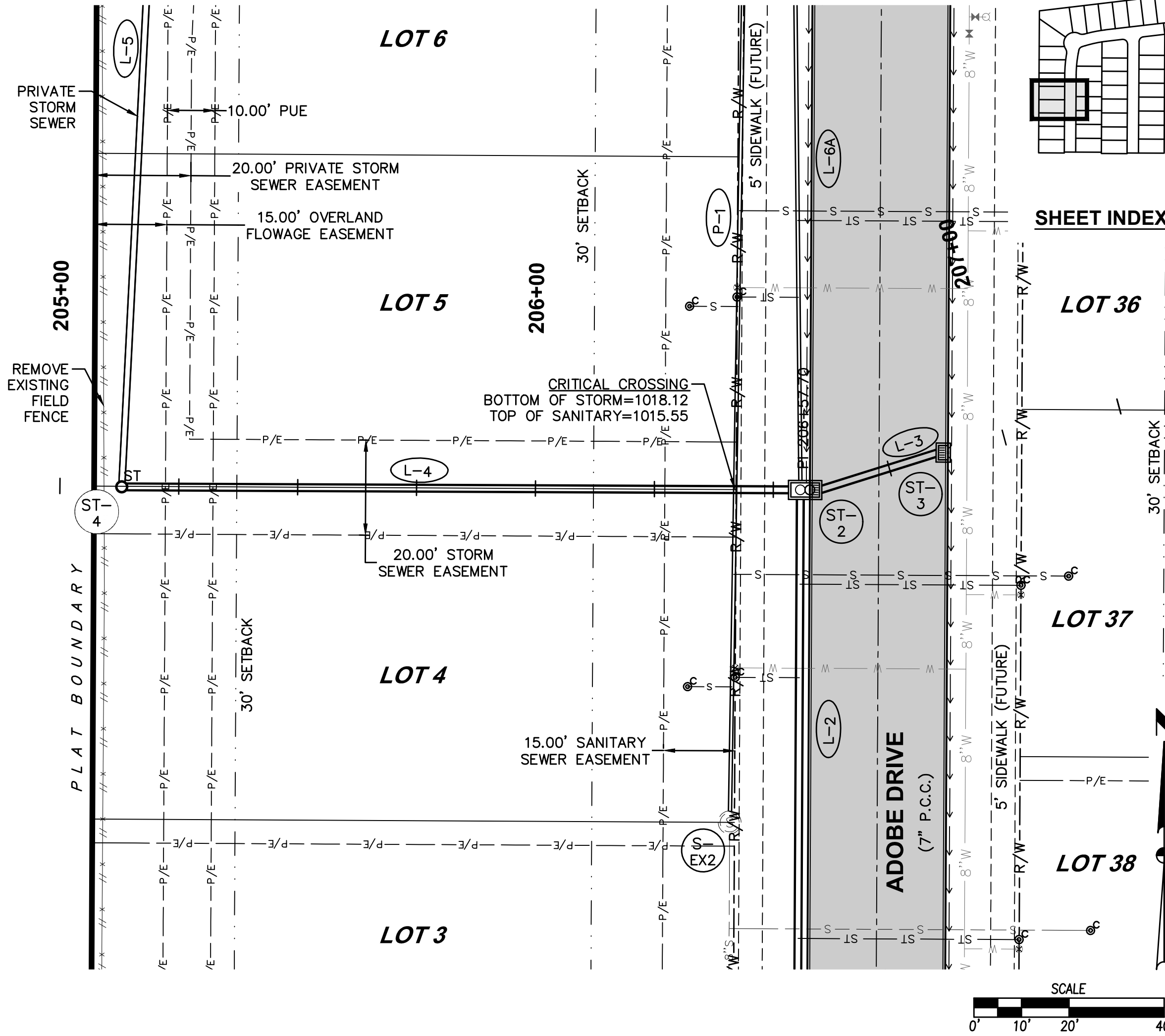
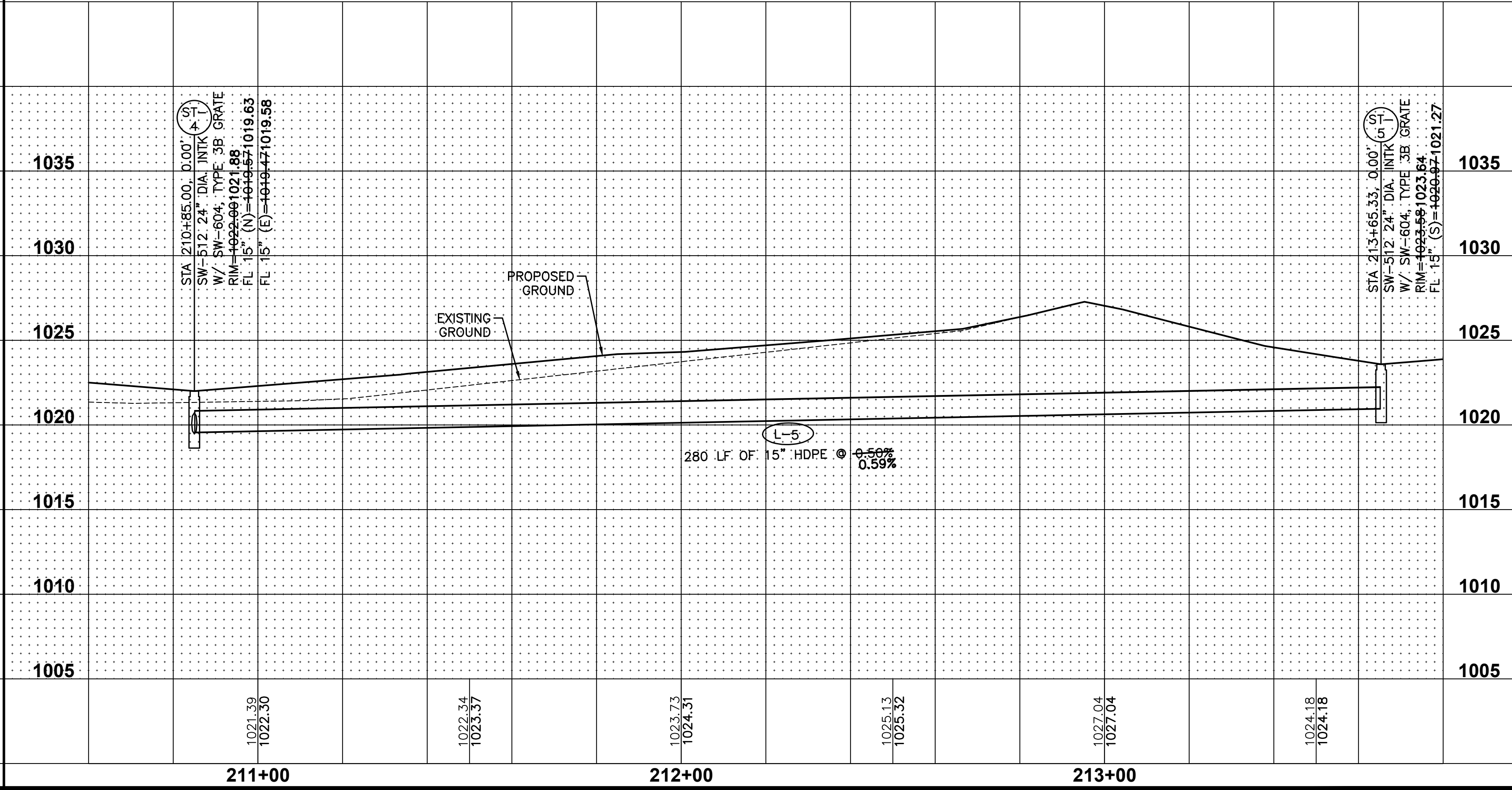
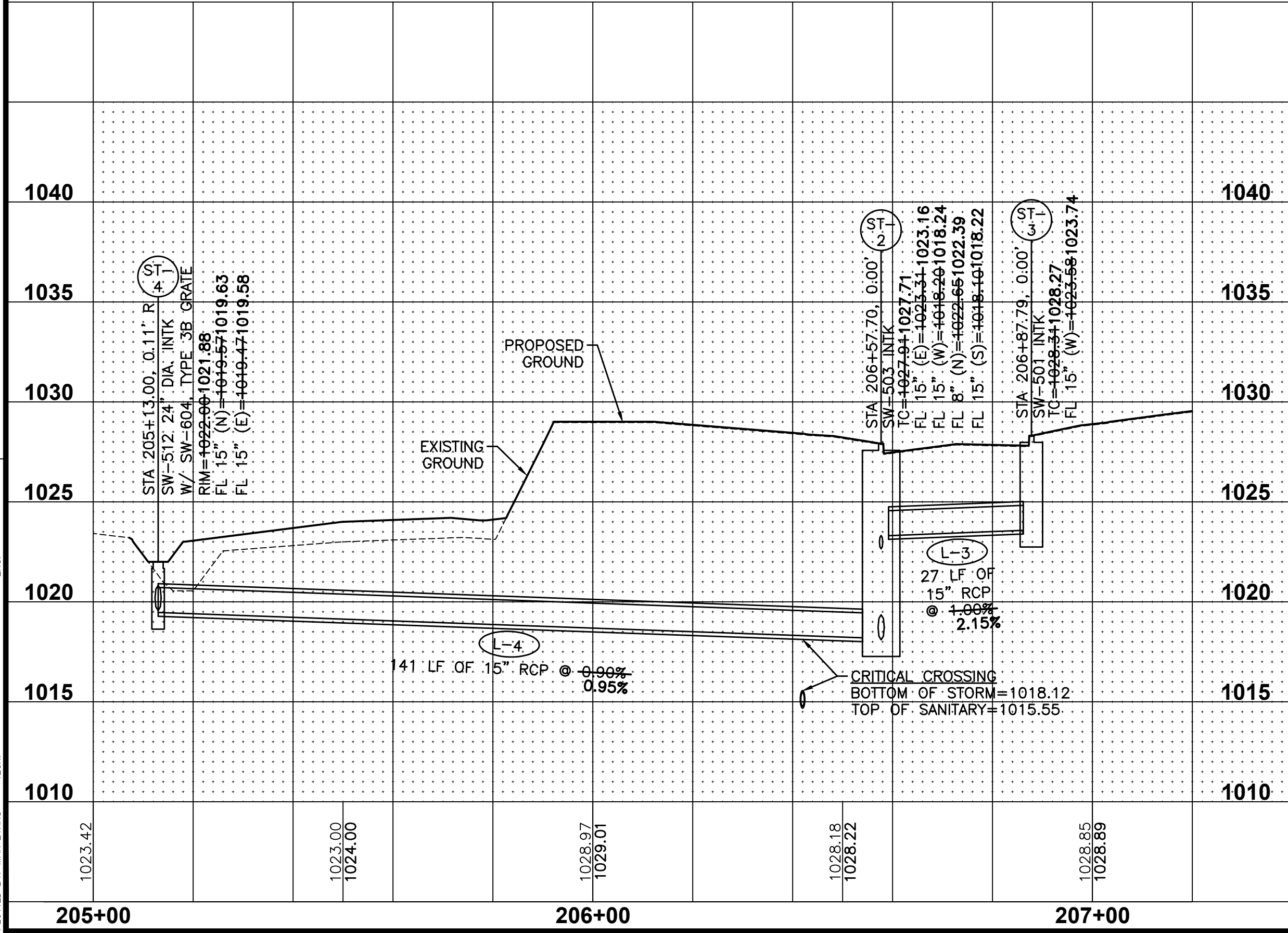
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

REVISIONS
AS-BUILT SUBMITTAL
FINAL SUBMITTAL
SECOND SUBMITTAL
FIRST SUBMITTAL

DATE
07/28/2021
02/10/2021
01/29/2021
01/12/2021



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ASHWORTH ACRES PLAT 3

SANITARY AND STORM SEWER PLAN AND PROFILE

WAUKEE, IOWA

DATE

07/28/2021

REVISIONS

AS-BUILT SUBMITTAL

FINAL SUBMITTAL

SECOND SUBMITTAL

FIRST SUBMITTAL

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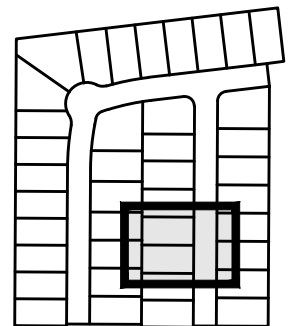
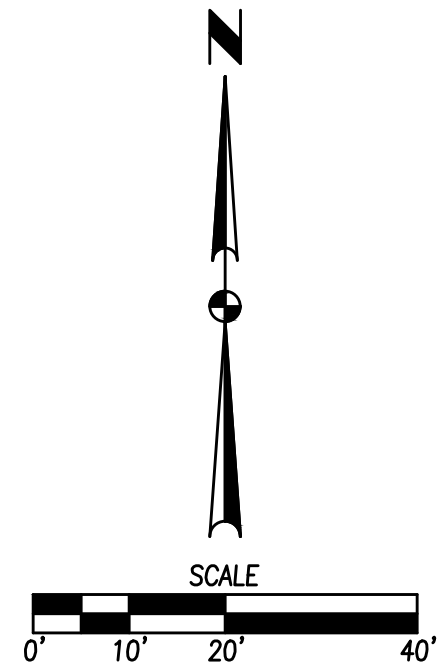
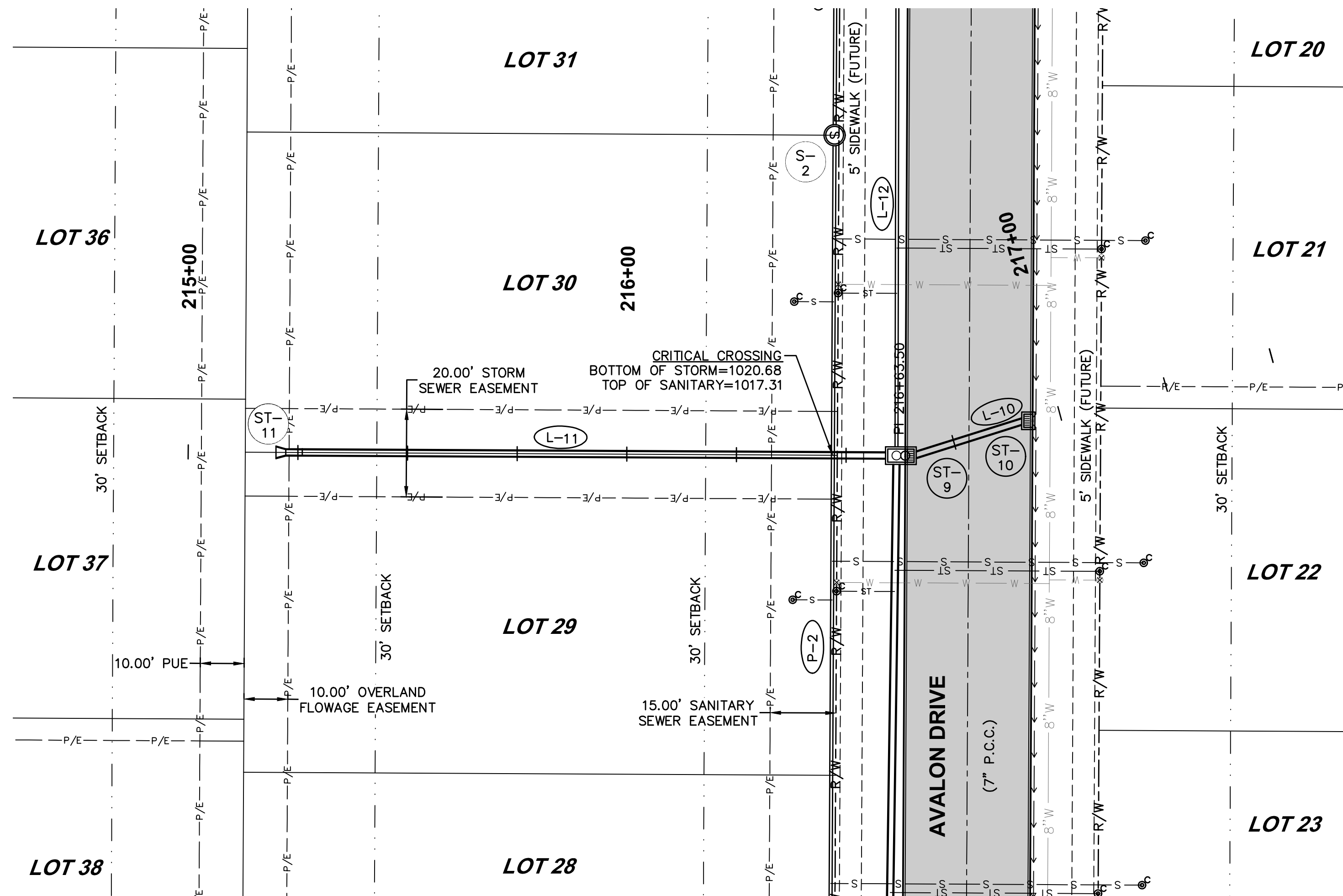
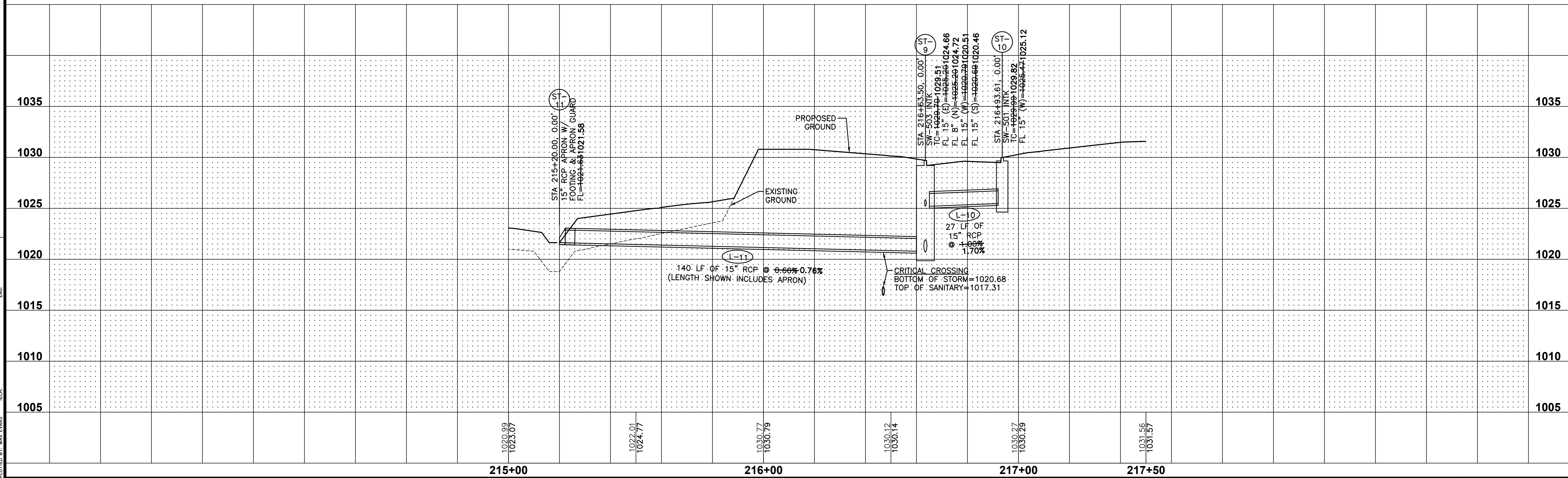
GRIMES, IOWA 50111

PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: EKO

EI: GH

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ASHWORTH ACRES PLAT 3

SANITARY AND STORM SEWER PLAN AND PROFILE

WAUKEE, IOWA



CIVIL DESIGN ADVANTAGE

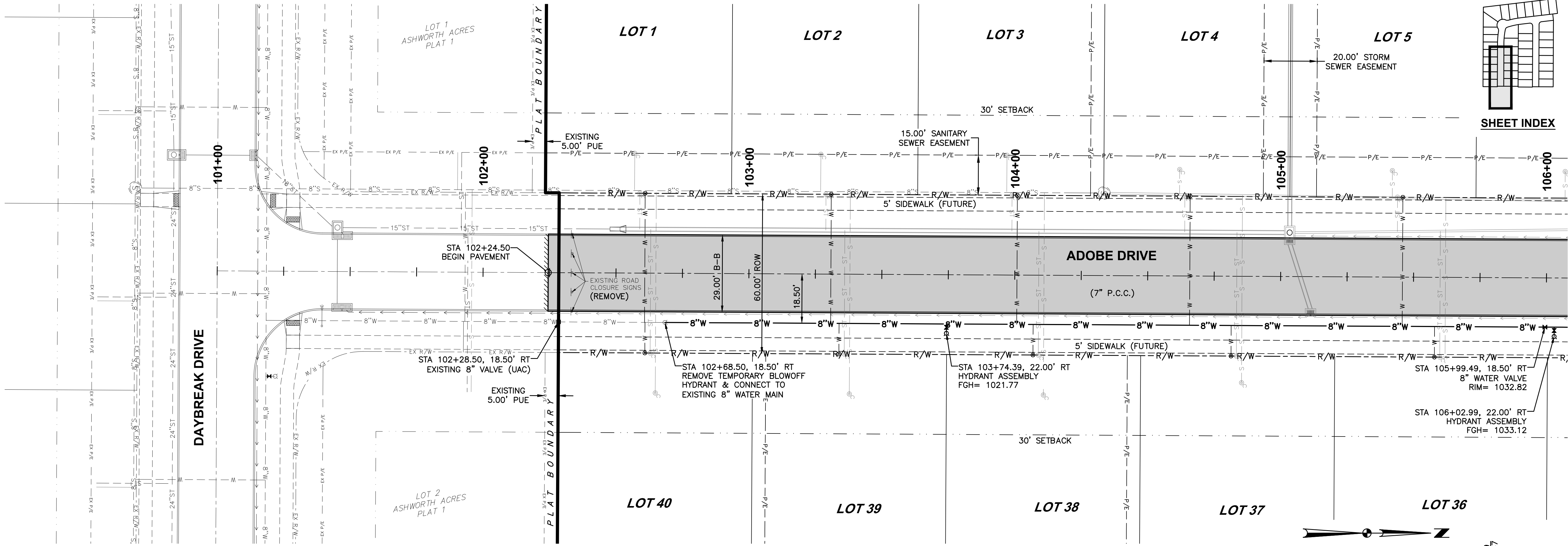
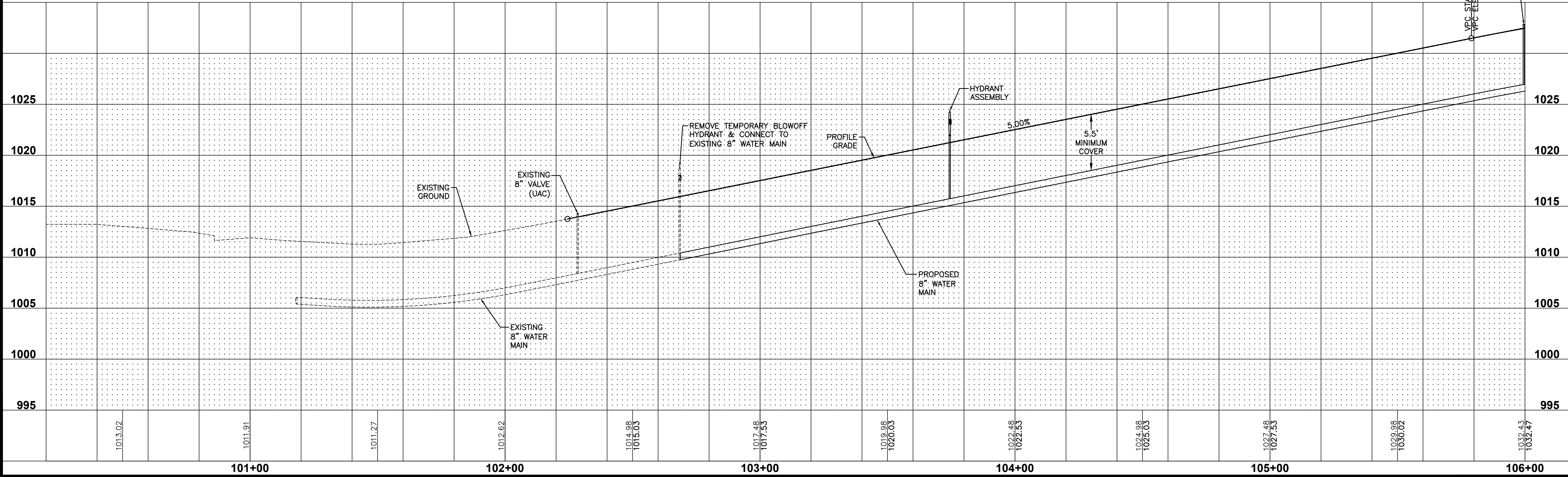
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
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ENGINEER: EKO

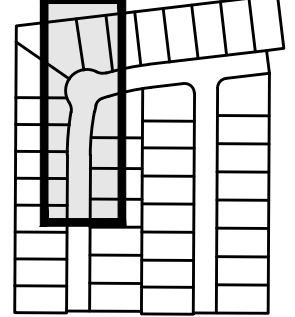
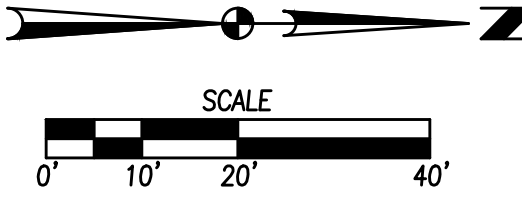
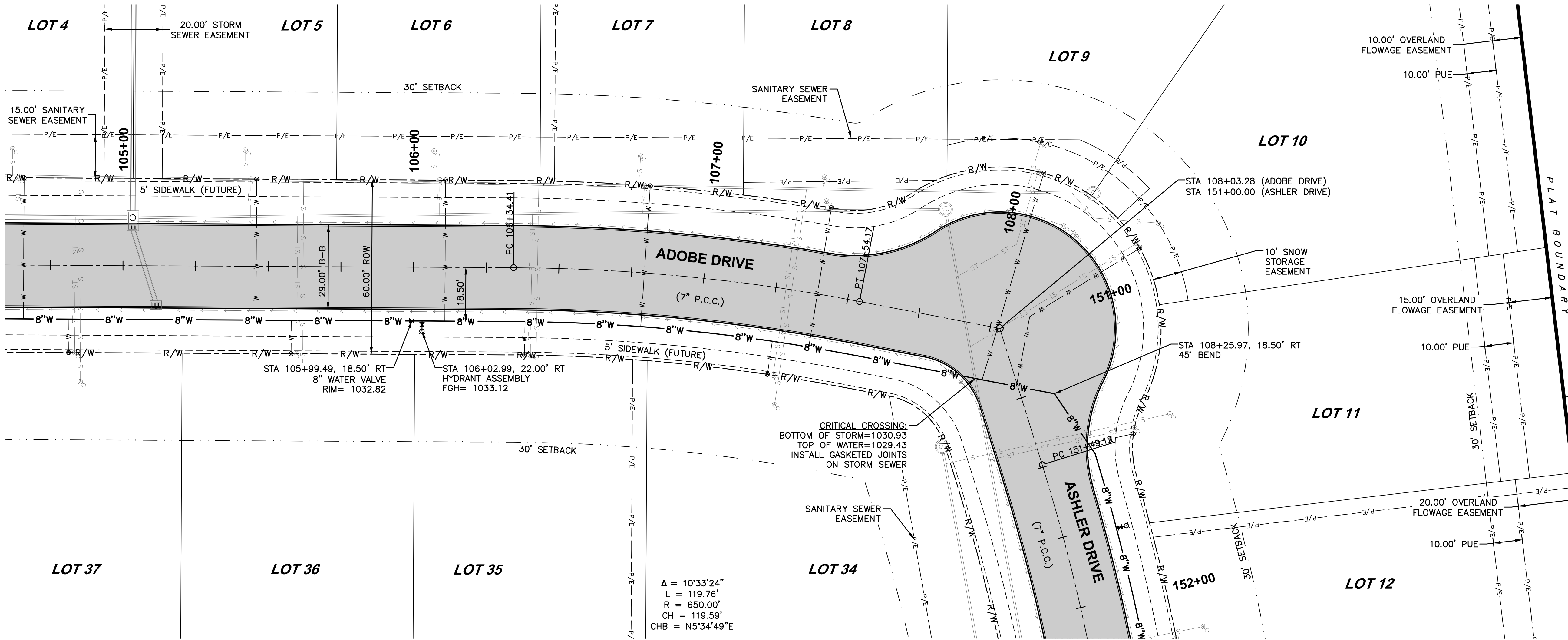
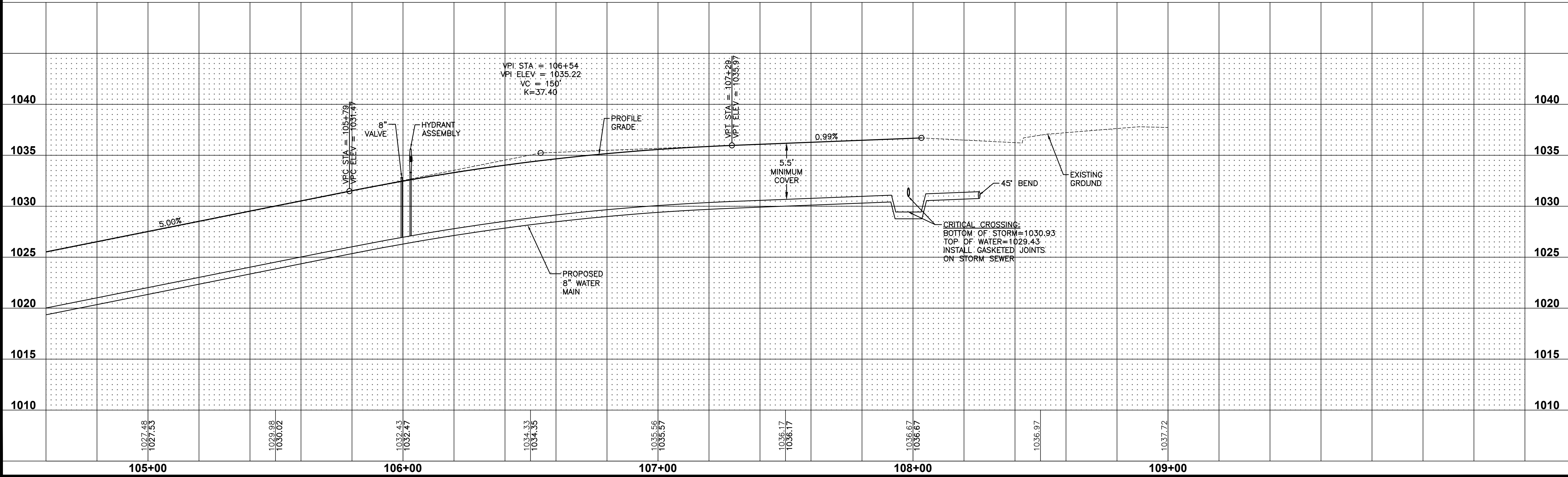
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REVISIONS	DATE
AS-BUILT SUBMITTAL	07/28/2021
FINAL SUBMITTAL	02/10/2021
SECOND SUBMITTAL	01/29/2021
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CHECKED BY: JAE EVANS



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DRAWN BY: JAE
CHECKED BY: JAE
COMMENTS:



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ASHWORTH ACRES PLAT 3

WATER MAIN PLAN AND PROFILE

WAUKEE, IOWA

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DATE

07/28/2021

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REVISIONS

AS-BUILT SUBMITTAL

FINAL SUBMITTAL

SECOND SUBMITTAL

FIRST SUBMITTAL

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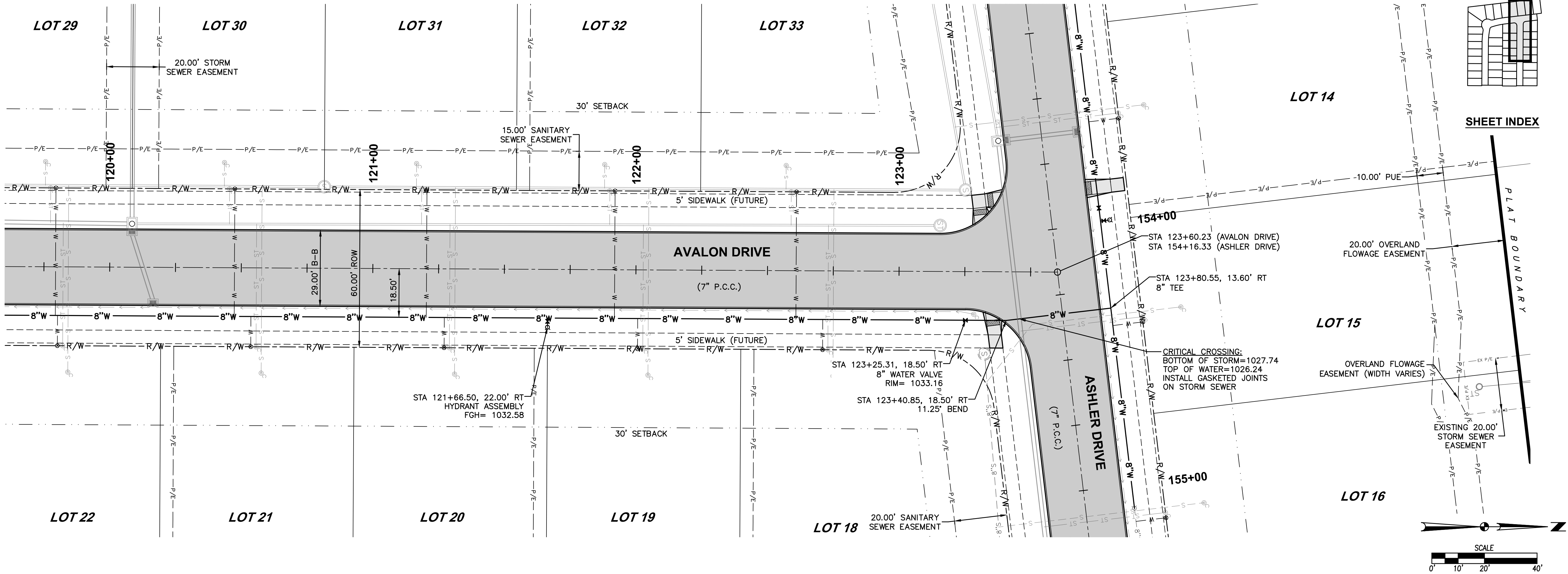
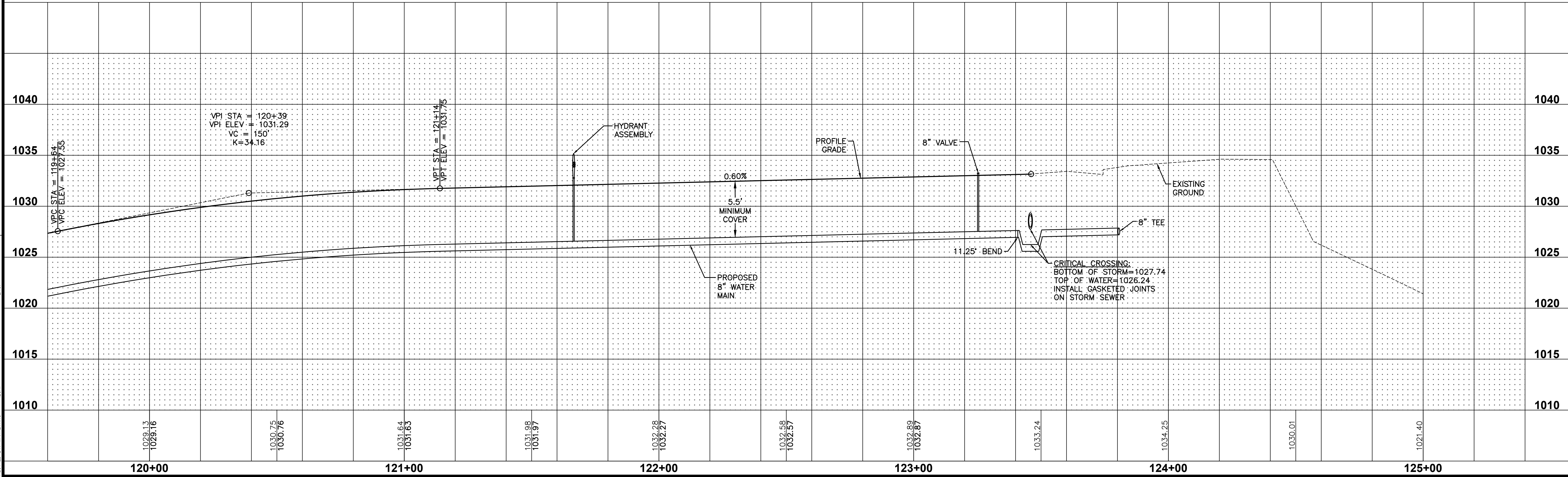
GRIMES, IOWA 50111

PHONE: (515) 369-4400 FAX: (515) 369-4410

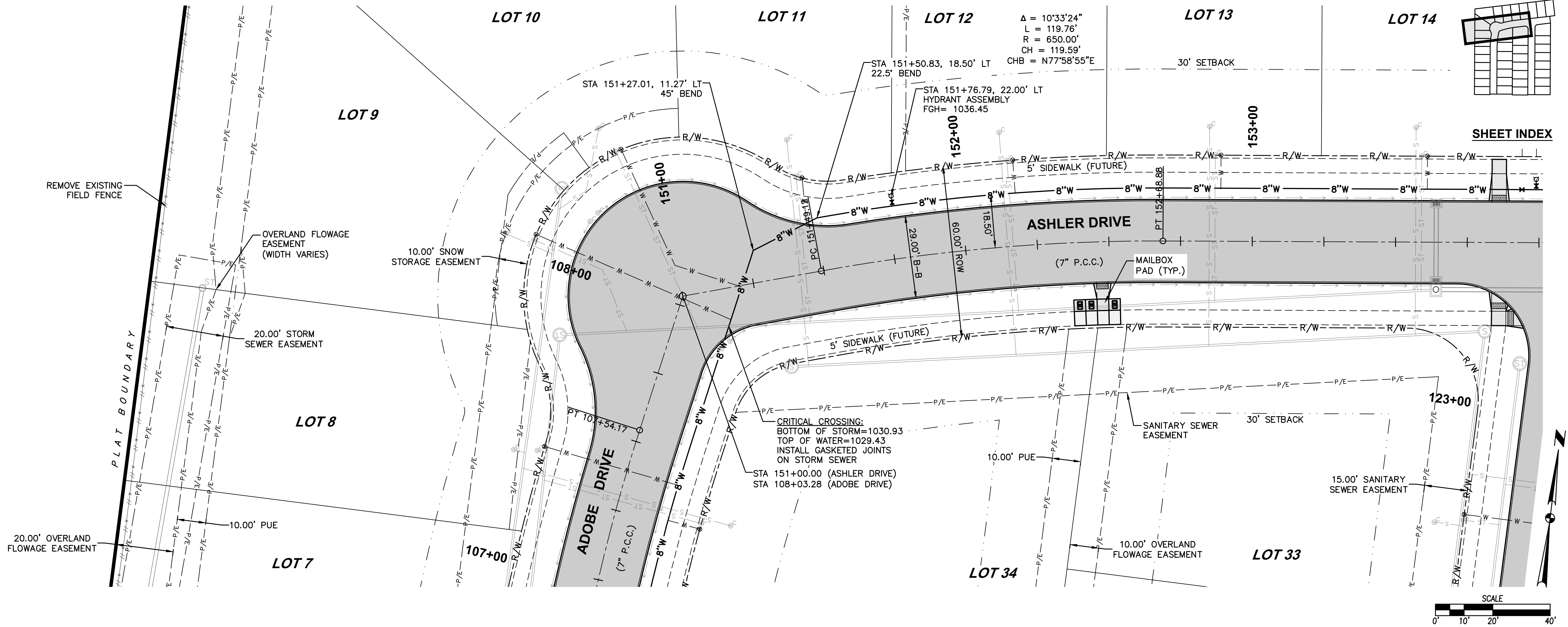
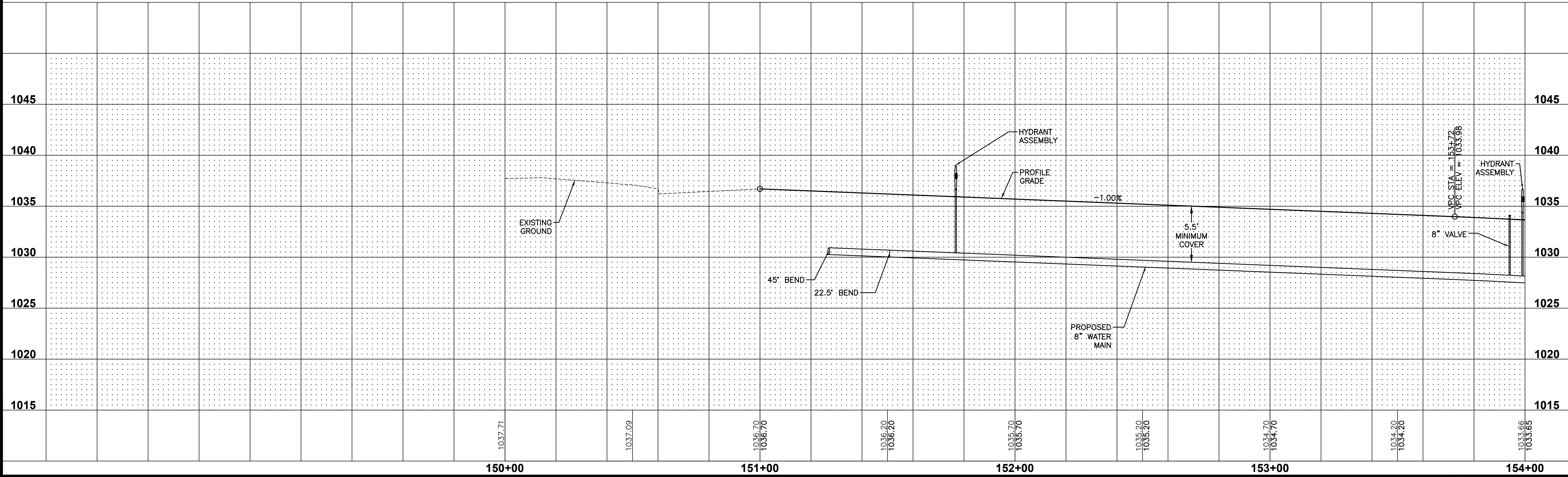
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EI: GH

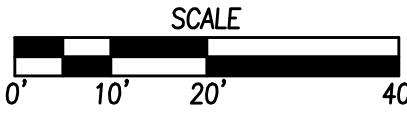
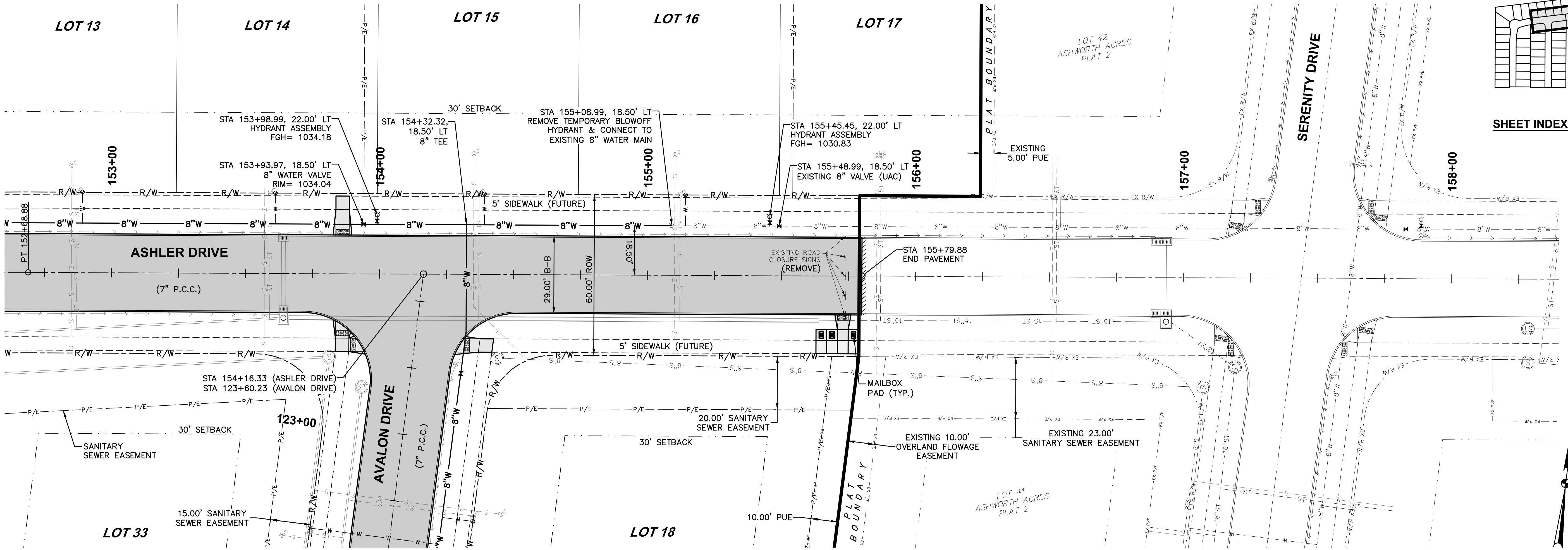
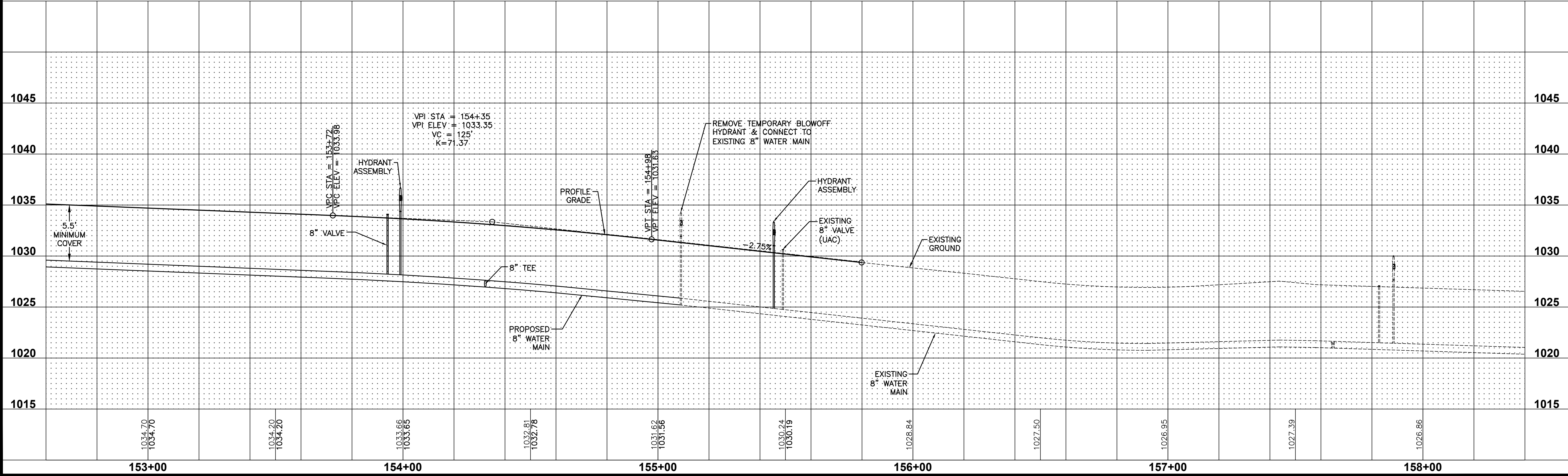
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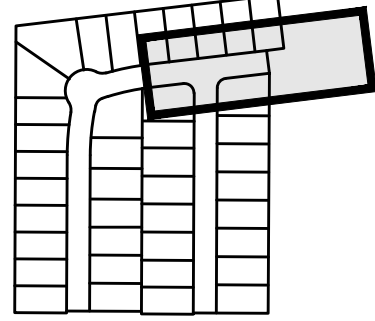
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CHECKED BY: JAE EVANS
COMMENTS:



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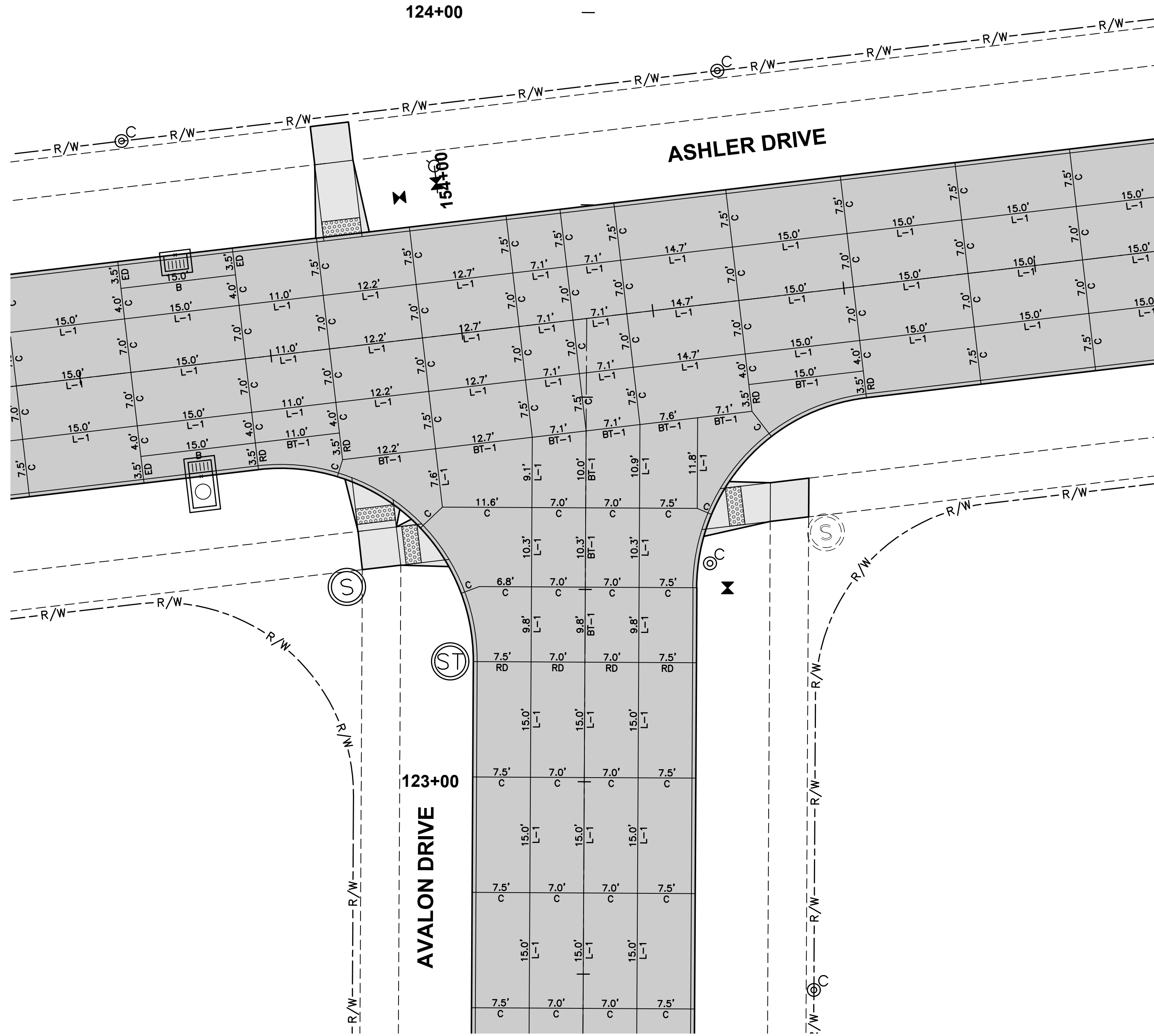
ASHWORTH ACRES PLAT 3
WATER MAIN PLAN AND PROFILE



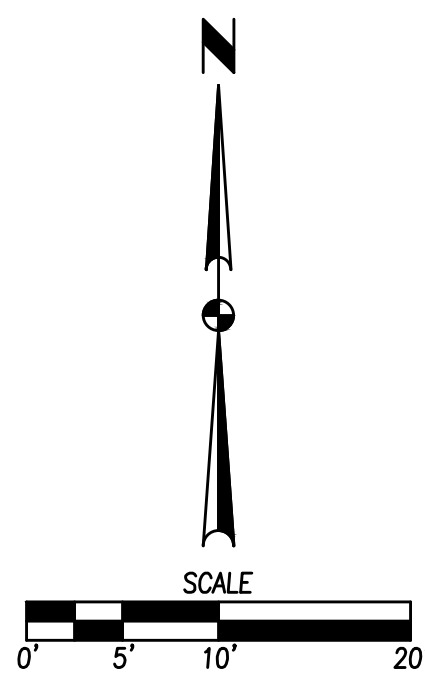
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO EI: GH

REVISIONS	
AS-BUILT SUBMITTAL	07/28/2021
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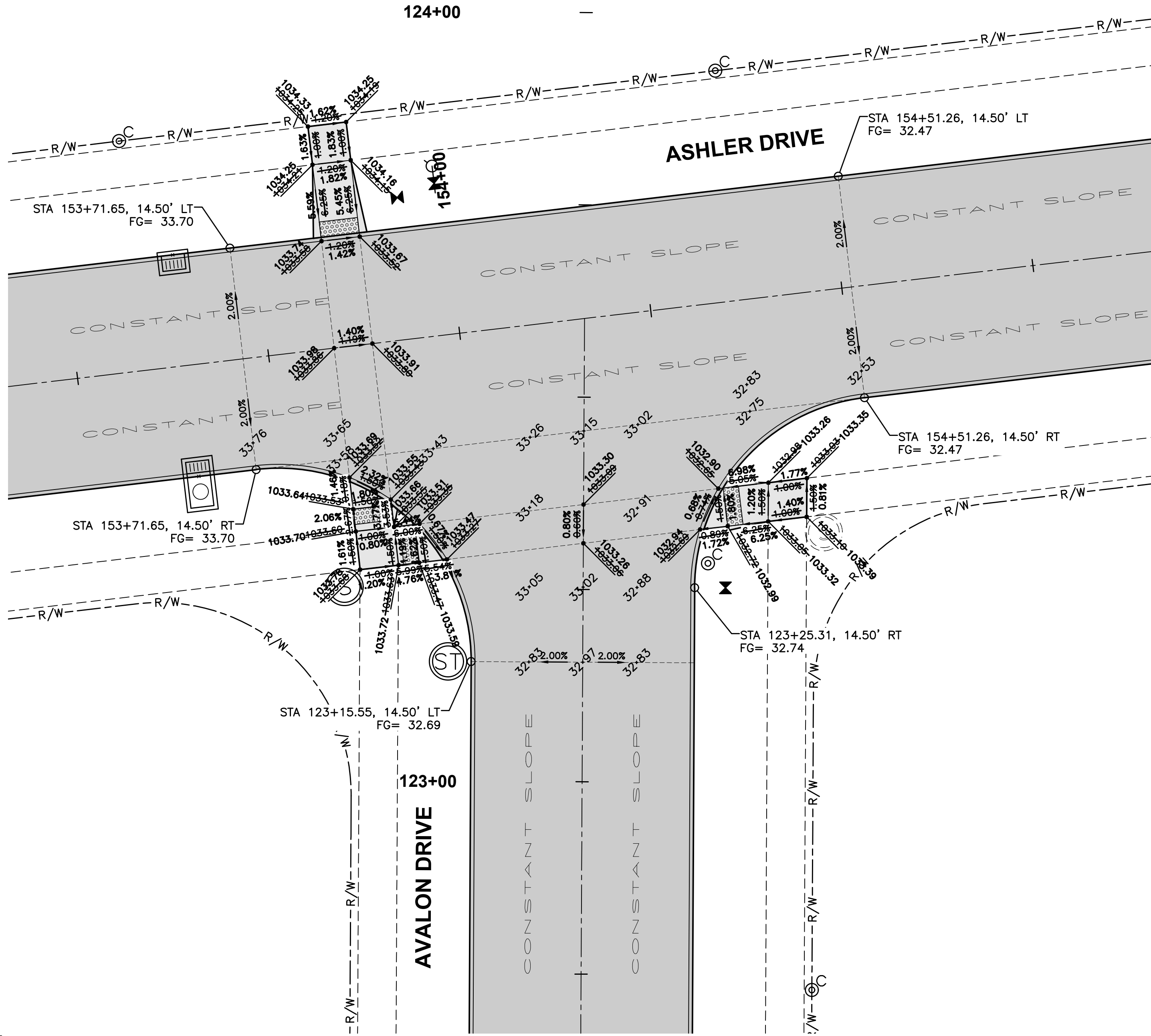


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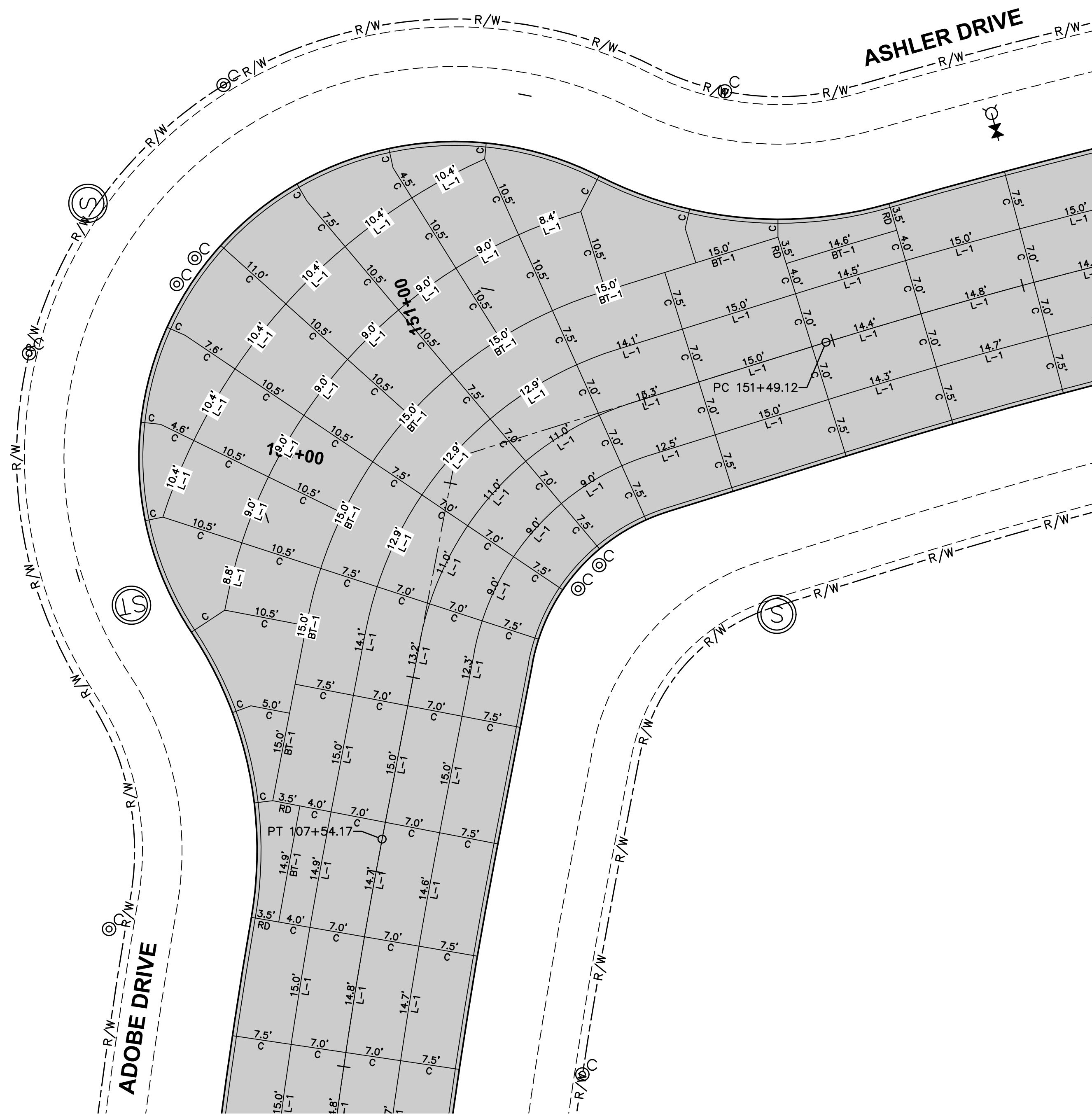


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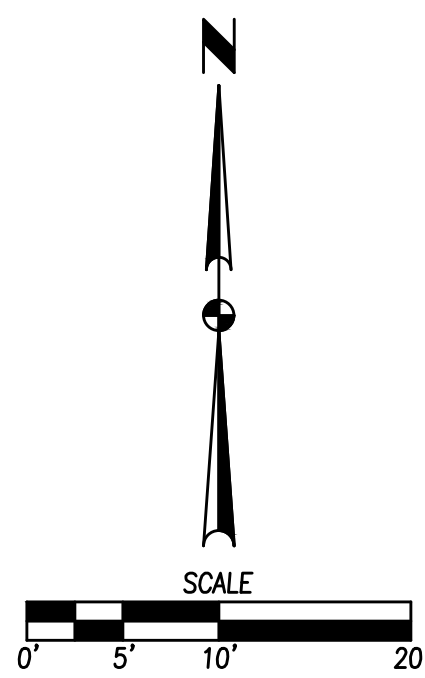
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2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
4. ADD 1000 TO 4 DIGIT SPOT ELEVATIONS TO OBTAIN PROJECT DATUM.



GEOMETRICS AND STAKING LAYOUT

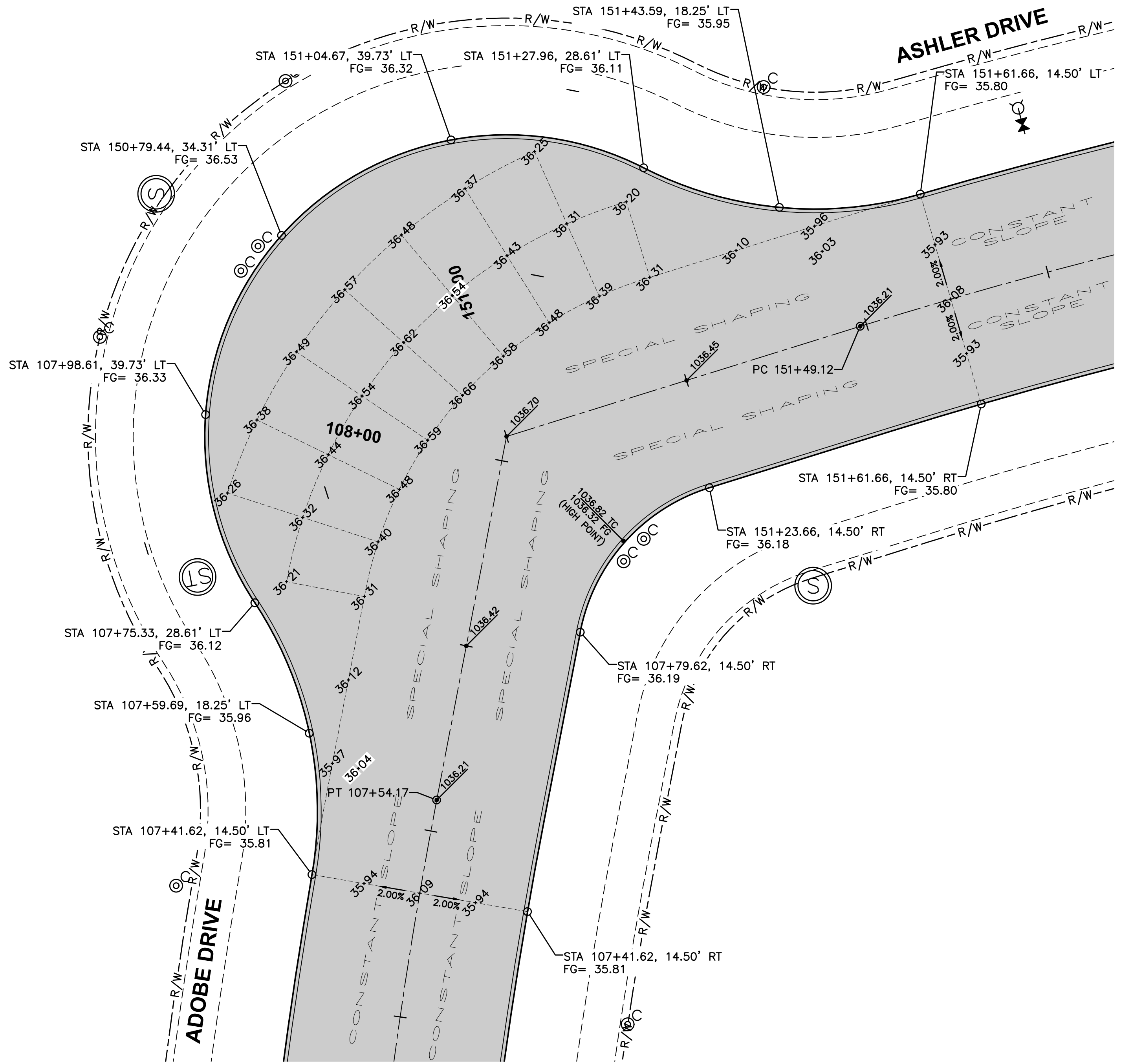


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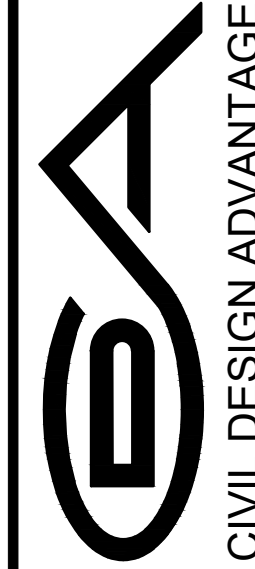
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1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
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GEOMETRICS AND STAKING LAYOUT

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WAUKEE, IOWA

ASHWORTH ACRES PLAT 3
INTERSECTION DETAILS

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REVISIONS

DATE	REVISIONS
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ENGINEER: EKO
EII: GH