

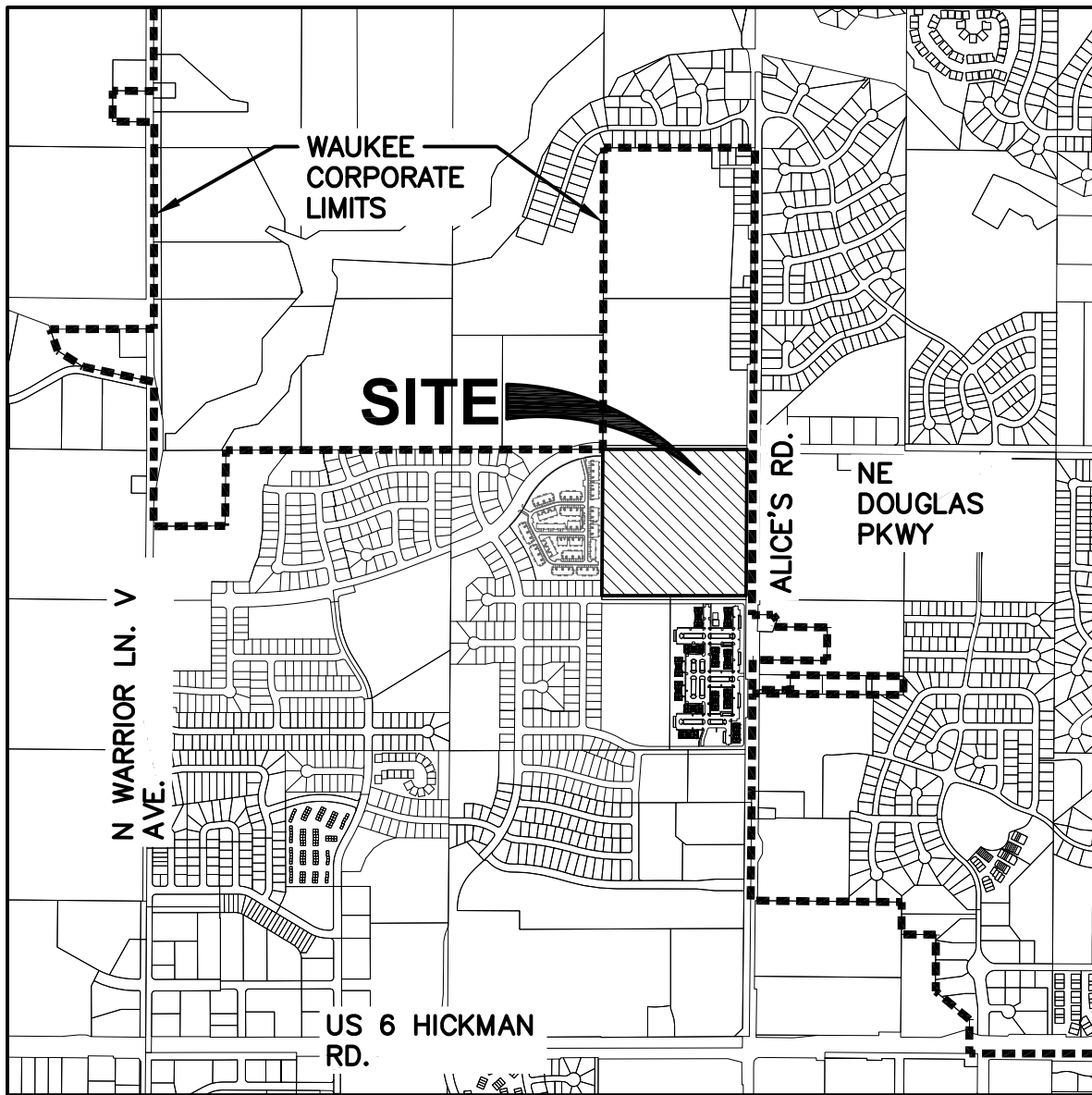
CONSTRUCTION PLANS FOR:

THE LANDING AT SHADOW CREEK PLAT 4

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

OWNER/DEVELOPER

LANDING AT SHADOW CREEK, LLC
CONTACT: BILL SPENCER
3405 SE CROSSROADS DRIVE, SUITE E
GRIMES, IA 50111
PH. (515) 986-5994

PROJECT MANAGER

LANDMARK DEVELOPMENT SERVICES
CONTACT: NICK HALFHILL
3405 SE CROSSROADS DRIVE, SUITE E
GRIMES, IA 50111
PH. (515) 986-5994

ENGINEER/ SURVEYOR

CIVIL DESIGN ADVANTAGE
CONTACT: ERIN OLLENDIKE
3405 SE CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PH. (515) 369-4400
FX. (515) 369-4410

BENCHMARKS

1. STORM SEWER MANHOLE RIM LOCATED AT THE N.E. CORNER OF WARRIOR LANE AND FOX RUN TRAIL INTERSECTION. MANHOLE IS LOCATED 4' FROM THE EAST BACK OF CURB LINE OF WARRIOR LANE AND 46' NORTH OF FOX RUN TRAIL CENTERLINE. ELEVATION = 1014.23
2. SANITARY SEWER MANHOLE RIM LOCATED ON THE WEST SIDE OF NE DARTMOOR DRIVE, 121' +/- NORTH OF THE CENTERLINE OF NE BOWMAN DRIVE. MANHOLE IS LOCATED 9' FROM THE WEST BACK OF CURB LINE OF NE DARTMOOR DRIVE. ELEVATION = 1020.12

SUBMITTAL DATES

FIRST SUBMITTAL: 02/22/2016
SECOND SUBMITTAL: 03/29/2016
THIRD SUBMITTAL: 04/21/2016
FOURTH SUBMITTAL: 05/12/2016
FINAL SUBMITTAL: 06/03/2016
AS-BUILT SUBMITTAL: 12/22/2016

NOTES

1. ANY CHANGES PROPOSED TO THE CONSTRUCTION DRAWINGS DURING CONSTRUCTION SHALL BE APPROVED IN WRITING BY THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES MADE DURING CONSTRUCTION THAT HAVE NOT BEEN GRANTED APPROVAL IN WRITING BY THE CITY OF WAUKEE ENGINEERING 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.

ZONING

R-2 ONE AND TWO FAMILY RESIDENTIAL DISTRICT
R-4 ROW DWELLING AND TOWNHOME DISTRICT
C-1 COMMUNITY AND HIGHWAY SERVICE COMMERCIAL DISTRICT

BULK REGULATIONS

R-2 ONE AND TWO FAMILY RESIDENTIAL DISTRICT

MINIMUM LOT AREA: 8,000 SQUARE FEET (SINGLE-FAMILY)
10,000 SQUARE FEET (TWO-FAMILY)
MINIMUM FLOOR AREA: 950 SQUARE FEET (SINGLE STORY SINGLE-FAMILY)
750 SQUARE FEET (SINGLE STORY TWO-FAMILY)
1,250 SQUARE FEET (MULTI-STORY SINGLE-FAMILY)
1,050 SQUARE FEET (MULTI-STORY TWO-FAMILY)
MINIMUM LOT WIDTH: 65 FEET (SINGLE-FAMILY)
80 FEET (TWO-FAMILY)
FRONT YARD SETBACK: 30 FEET
SIDE YARD SETBACK: 7 FEET (15 FEET TOTAL)
REAR YARD SETBACK: 30 FEET

R-4 ROW DWELLING AND TOWNHOME DISTRICT

MINIMUM LOT AREA: 3,500 SQUARE FEET
MINIMUM FLOOR AREA: 800 SQUARE FEET
MINIMUM LOT WIDTH: 25 FEET PER UNIT (75 FEET TOTAL)
FRONT YARD SETBACK: 30 FEET
SIDE YARD SETBACK: 7 FEET (15 FEET TOTAL)
REAR YARD SETBACK: 30 FEET

C-1 COMMUNITY AND HIGHWAY SERVICE COMMERCIAL DISTRICT

MINIMUM LOT AREA: NO MINIMUM
MINIMUM LOT WIDTH: NO MINIMUM
FRONT YARD SETBACK: 30 FEET
SIDE YARD SETBACK: NO MINIMUM
REAR YARD SETBACK: 30 FEET

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2-4	TYPICAL SECTIONS AND DETAILS
5	QUANTITIES AND REFERENCE NOTES
6	HYDRANT COVERAGE PLAN
7-8	GRADING PLAN
9-10	EROSION & SEDIMENT CONTROL PLAN
11-22	STORM AND SANITARY SEWER PLAN AND PROFILE
23-29	WATERMAIN PLAN AND PROFILE
30-32	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

BOOK 491, PAGE 79
EXCEPT BOOK 2007 PAGE 19461

THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 27, TOWNSHIP 79 NORTH, RANGE 26 WEST OF THE FIFTH PRINCIPAL MERIDIAN IN THE CITY OF WAUKEE, DALLAS COUNTY, IOWA.

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	
SANITARY SERVICE	
STORM SEWER	
STORM SERVICE	
WATERMAIN WITH SIZE	
WATER SERVICE	
SAWCUT (FULL DEPTH)	
SILT FENCE	
USE AS CONSTRUCTED	(UAC)
MINIMUM PROTECTION ELEVATION	MPE
TOP OF PROPOSED GROUND	TG
MINIMUM OPENING ELEVATION	MOE
MINIMUM GRADE AT 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	
GAS MAIN	
FIBER OPTIC	
UNDERGROUND TELEPHONE	
OVERHEAD ELECTRIC	
UNDERGROUND ELECTRIC	
FIELD TILE	
SANITARY SEWER W/ SIZE	
STORM SEWER W/ SIZE	
WATER MAIN W/ SIZE	

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 2016 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.

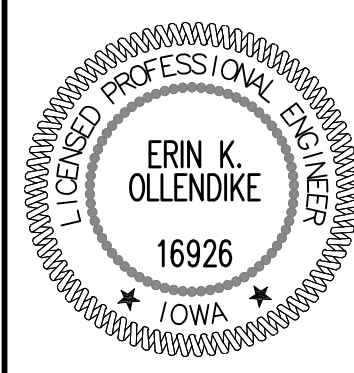
CA
CIVIL DESIGN ADVANTAGE

3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111

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

PROJECT NO. 1505.276

IOWA
ONE CALL
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.

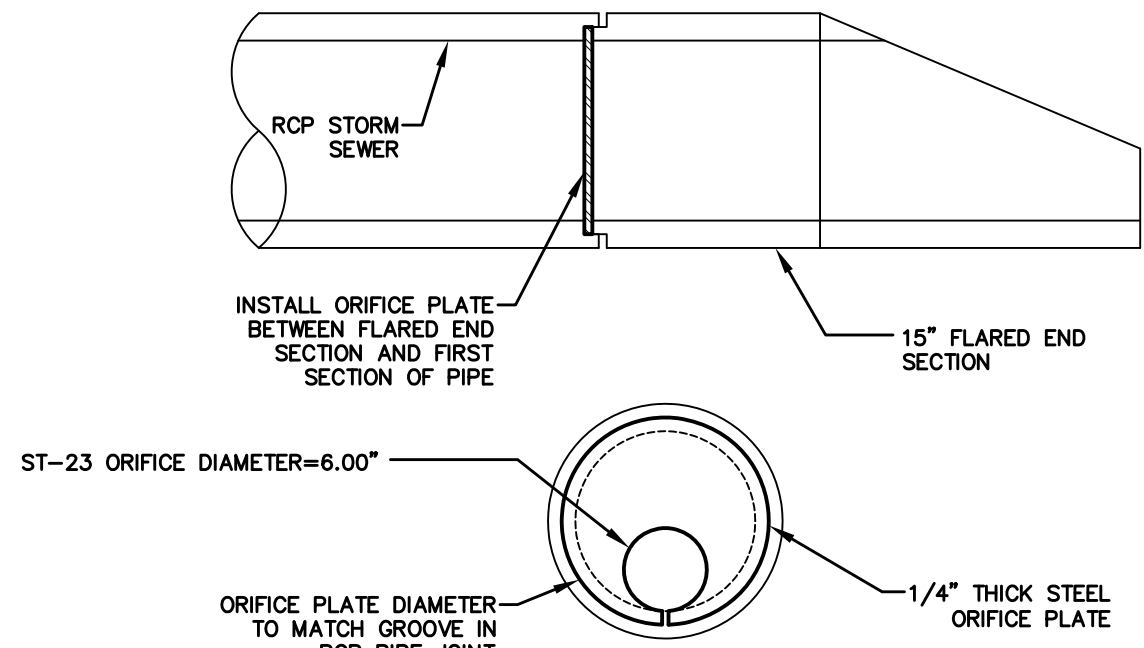
ERIN K. OLLENDIKE, P.E.

DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2017
PAGES OR SHEETS COVERED BY THIS SEAL:

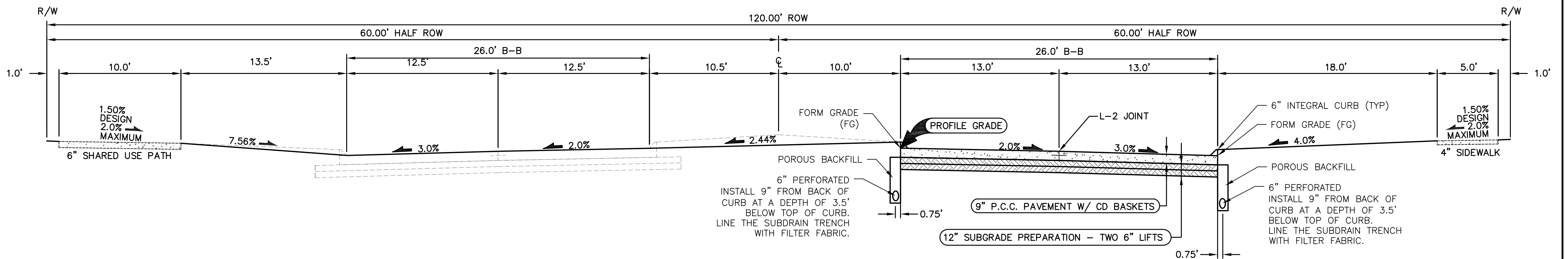
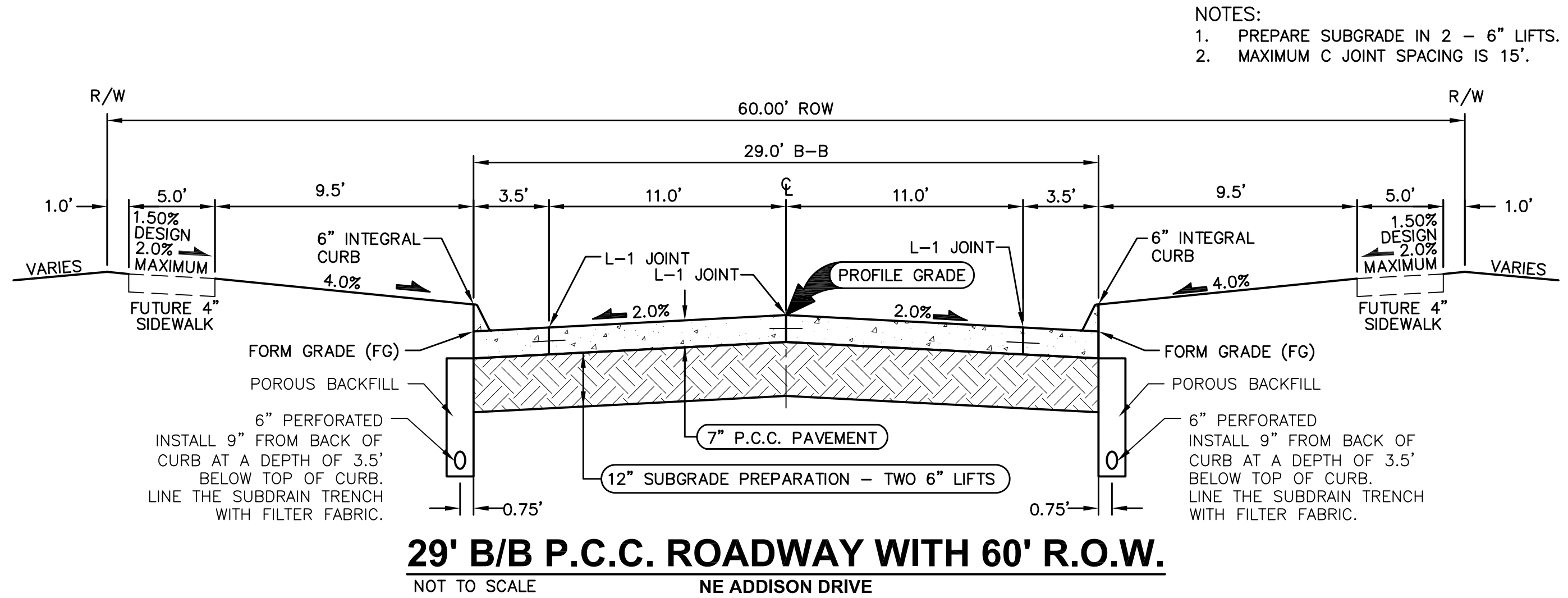
SHEETS 1-32

FILE: H:\2015\1505276\DWG\1505276-DOV-BET-TAB.DWG COMMENT: 12/27/2016 5:25 PM
PLOTTER: HP DesignJet 5000 PS
PLOTTER: HP DesignJet 5000 PS



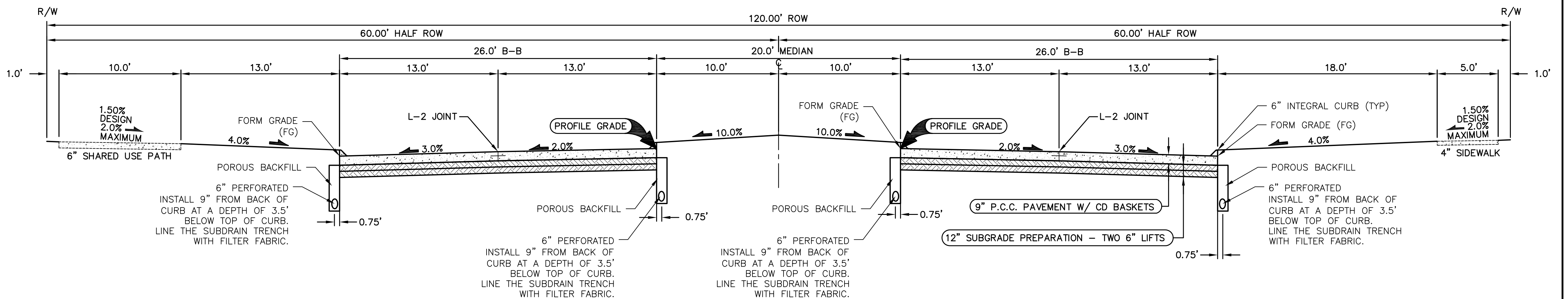
ST-23 ORIFICE PLATE DETAIL

NOT TO SCALE



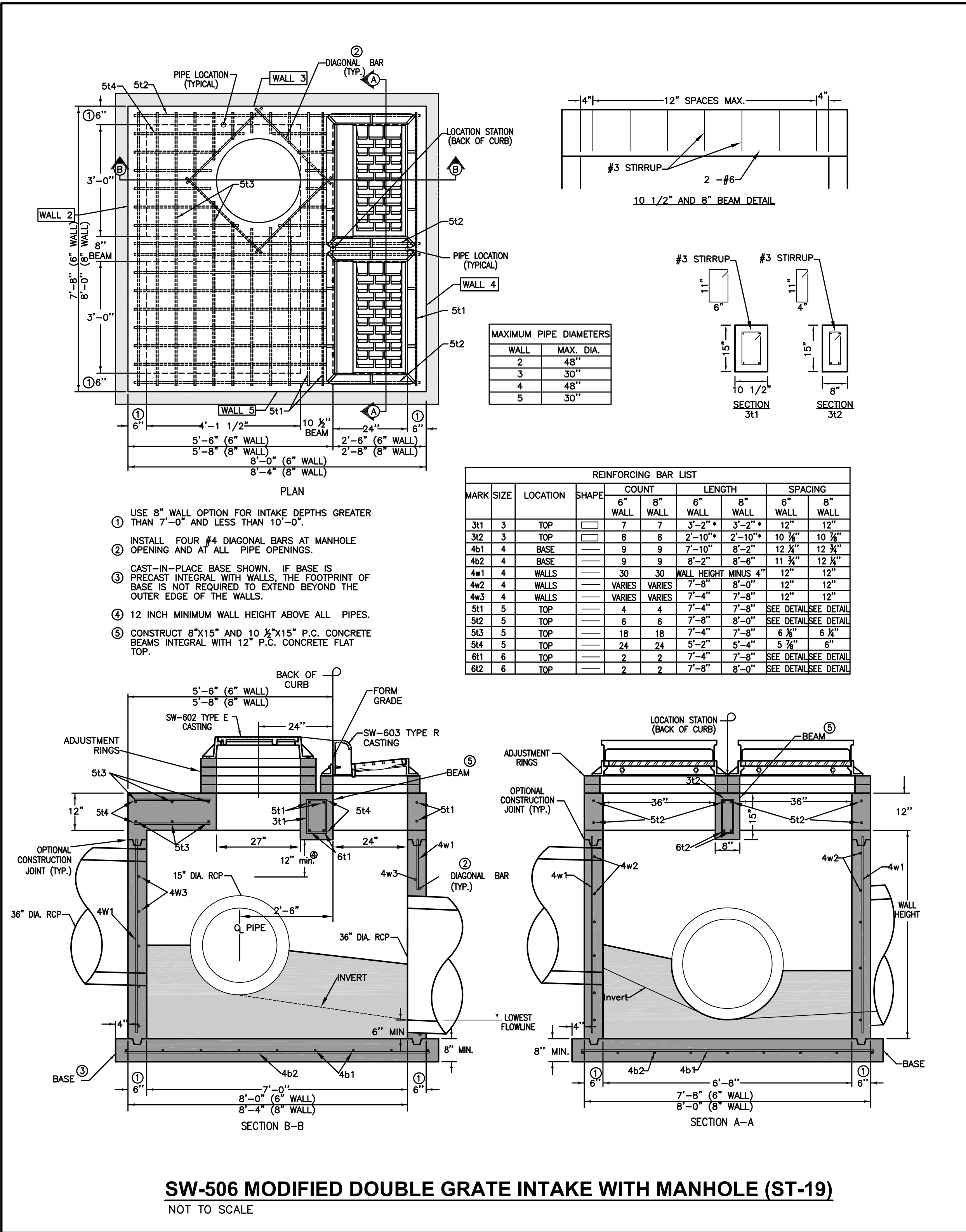
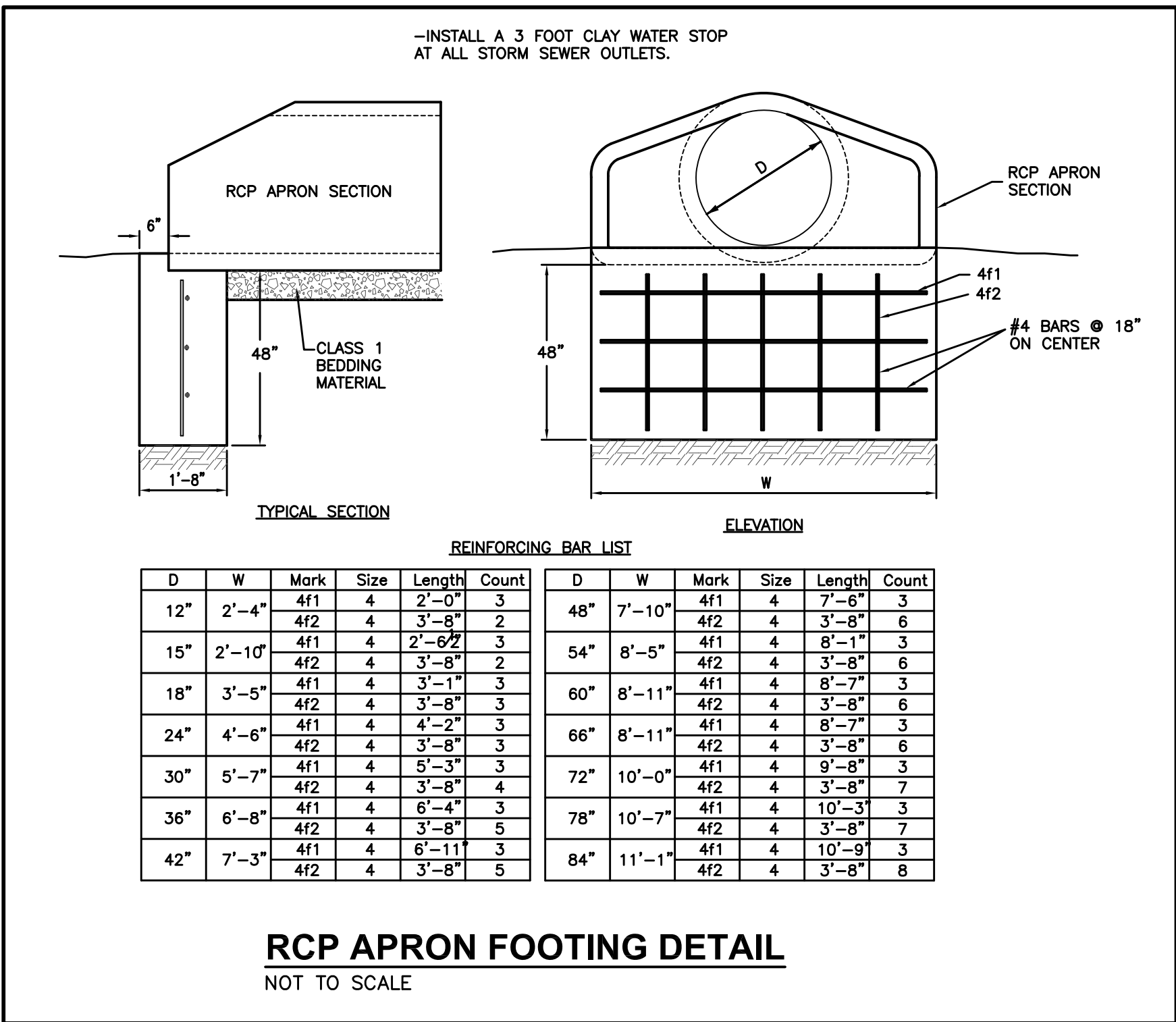
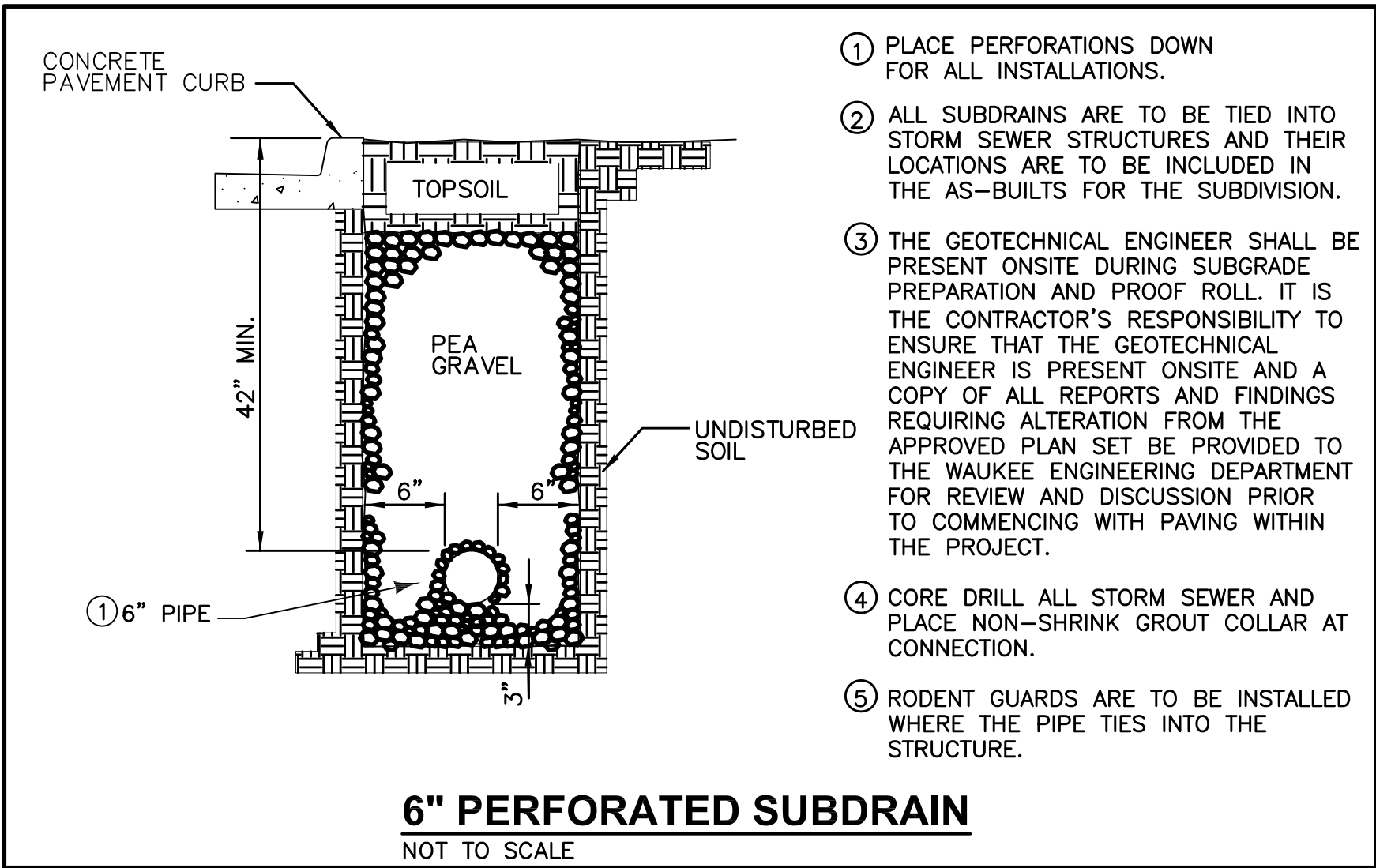
NE DOUGLAS PARKWAY (PARTIAL BUILD) WITH 120' R.O.W.

NOT TO SCALE

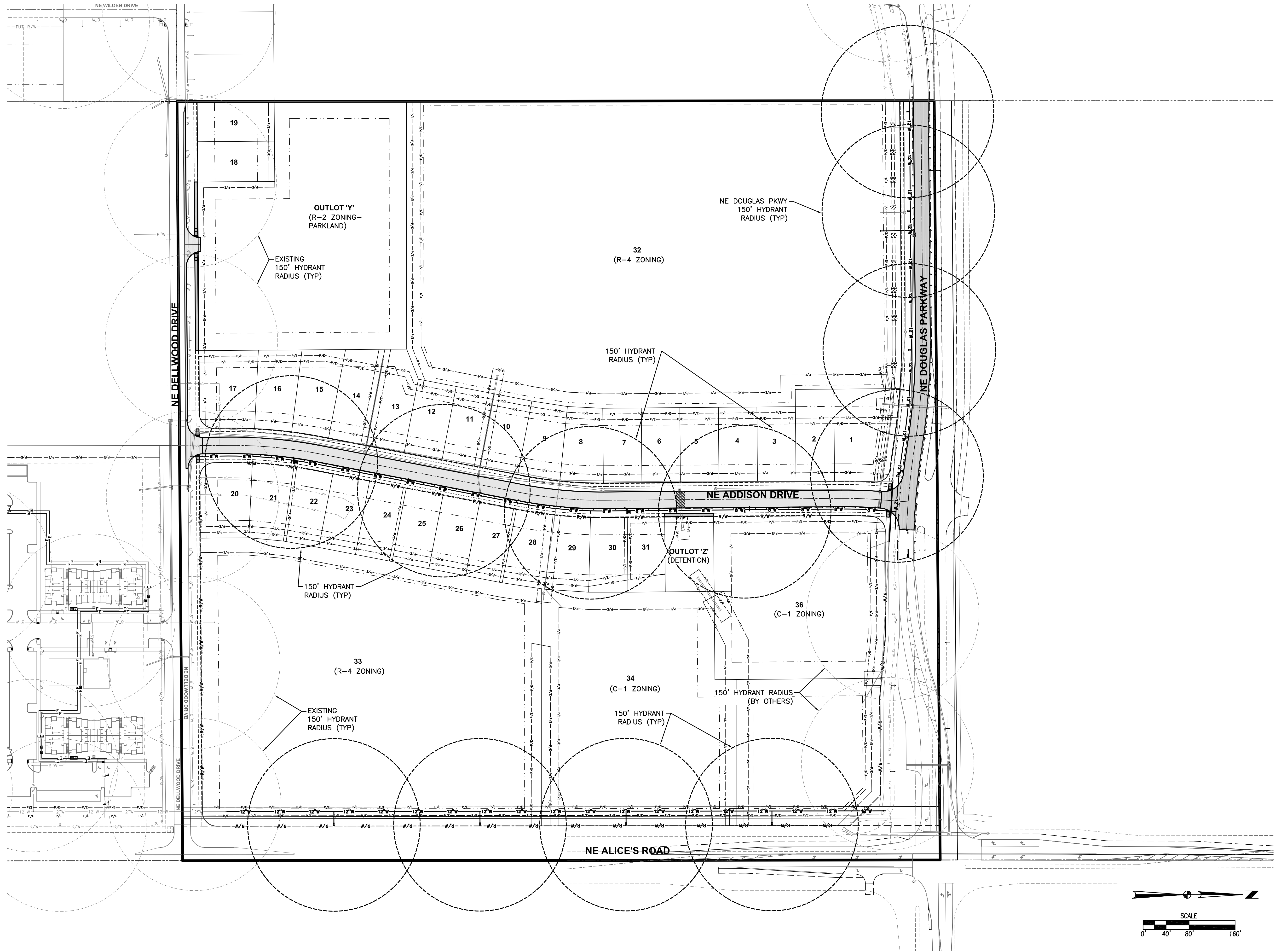


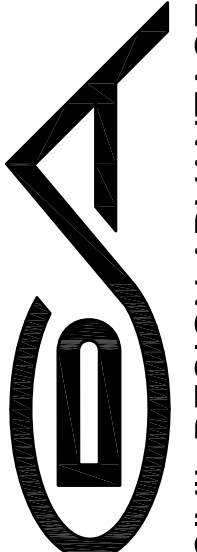
NE DOUGLAS PARKWAY (FULL BUILD) WITH 120' R.O.W.

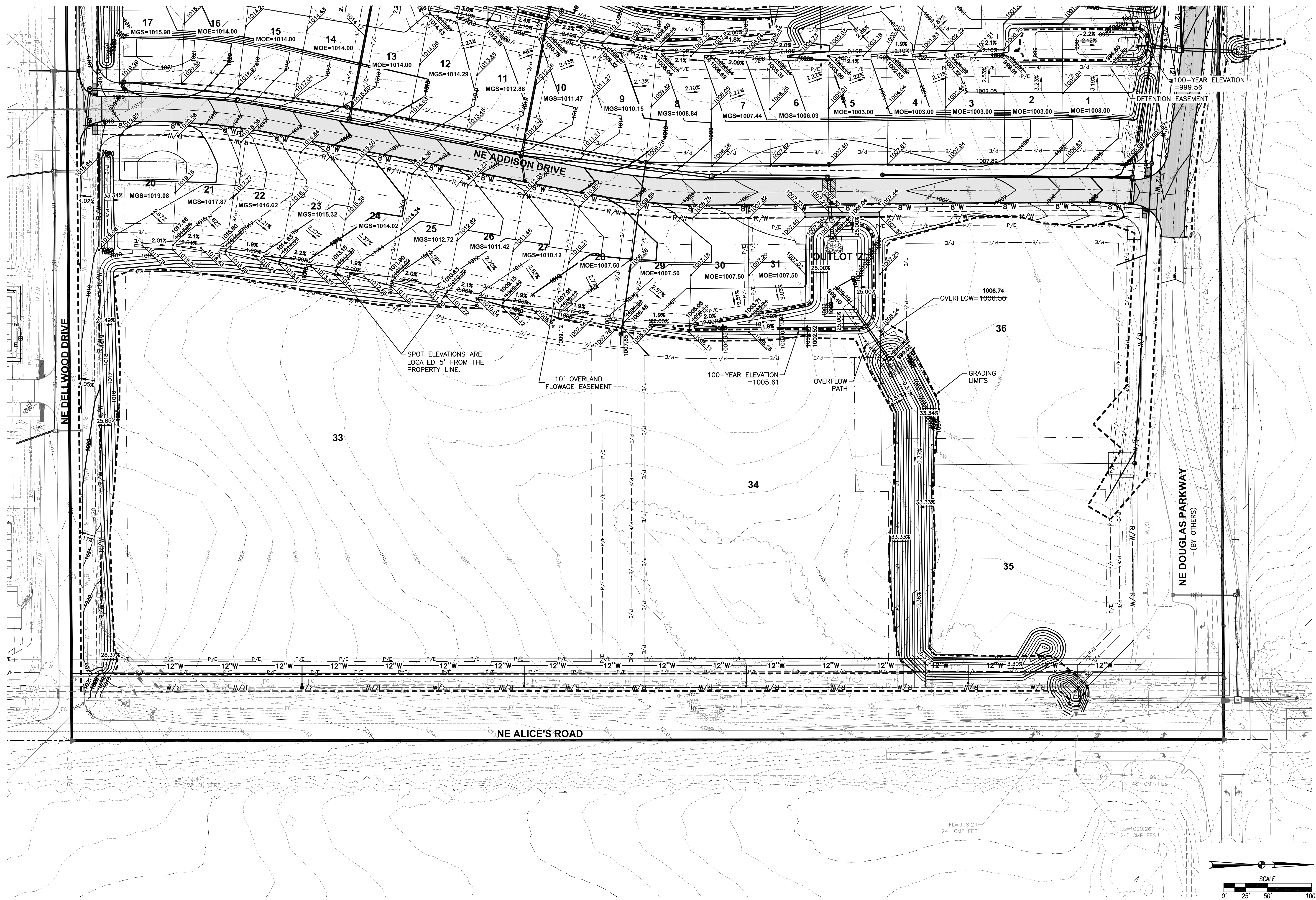
NOT TO SCALE



FILE: H:\2015\1505276\DWG\1505276-DOV-DET-TAB.DWG COMMENT: DOV DET TYP
PLOTED BY: EAP HEROLD DATE: 12/21/2016 5:26 PM



	6 32 1505.276	LANDING AT SHADOW CREEK PLAT 4 HYDRANT COVERAGE PLAN	 CIVIL DESIGN ADVANTAGE WAUKEE, IOWA	3405 S.E. CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PHONE: (515) 369-4400 FAX: (515) 369-4410	ENGINEER: EKO	EI: GH
				REVISIONS		
				DATE		
				AS-BUILT SUBMITTAL		
				REVISED WATERMAN		
FINAL SUBMITTAL						
FOURTH SUBMITTAL						
THIRD SUBMITTAL						
SECOND SUBMITTAL						
FIRST SUBMITTAL						



REVISIONS	DATE
REVISED WATERMAIN	08/01/16
FINAL SUBMITTAL	06/03/16
FOURTH SUBMITTAL	05/12/16
THIRD SUBMITTAL	04/21/16
SECOND SUBMITTAL	03/29/16
FIRST SUBMITTAL	02/22/16



CIVIL DESIGN ADVANTAGE

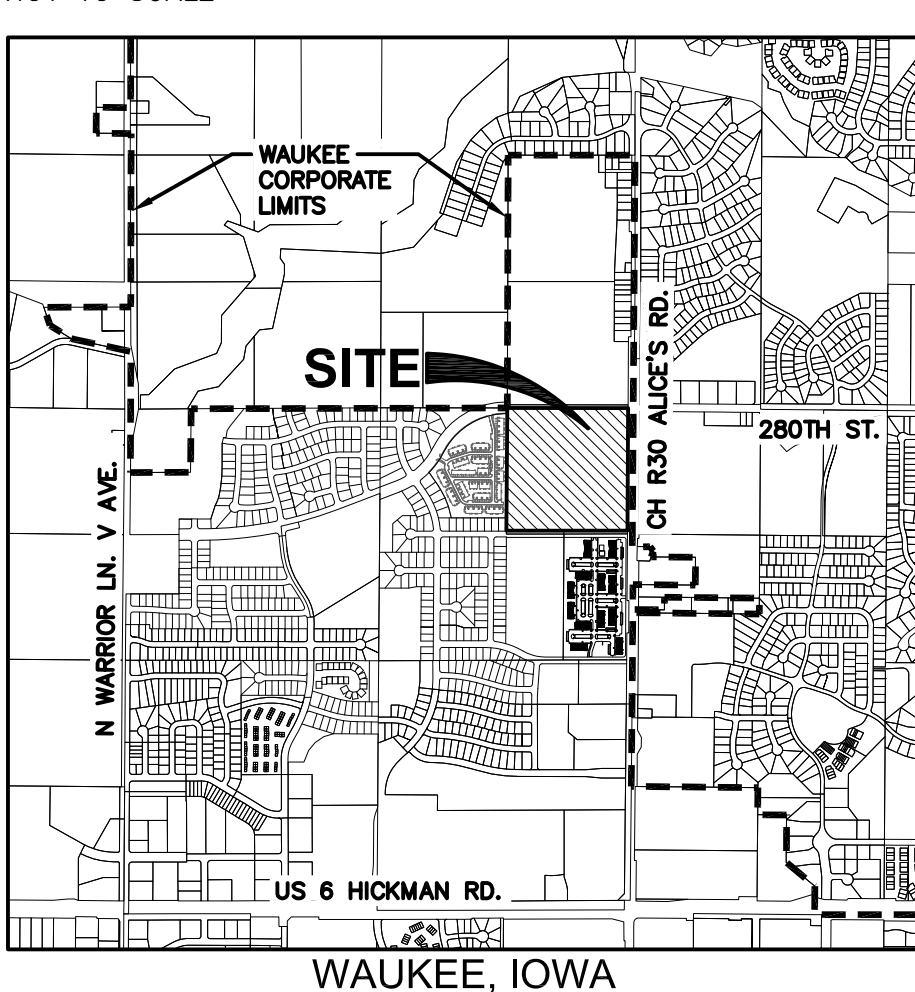
LANDING AT SHADOW CREEK PLAT 4

GRADING PLAN

LANDING AT SHADOW CREEK PLAT 4

EROSION AND SEDIMENT CONTROL PLAN

VICINITY MAP



STABILIZATION QUANTITIES

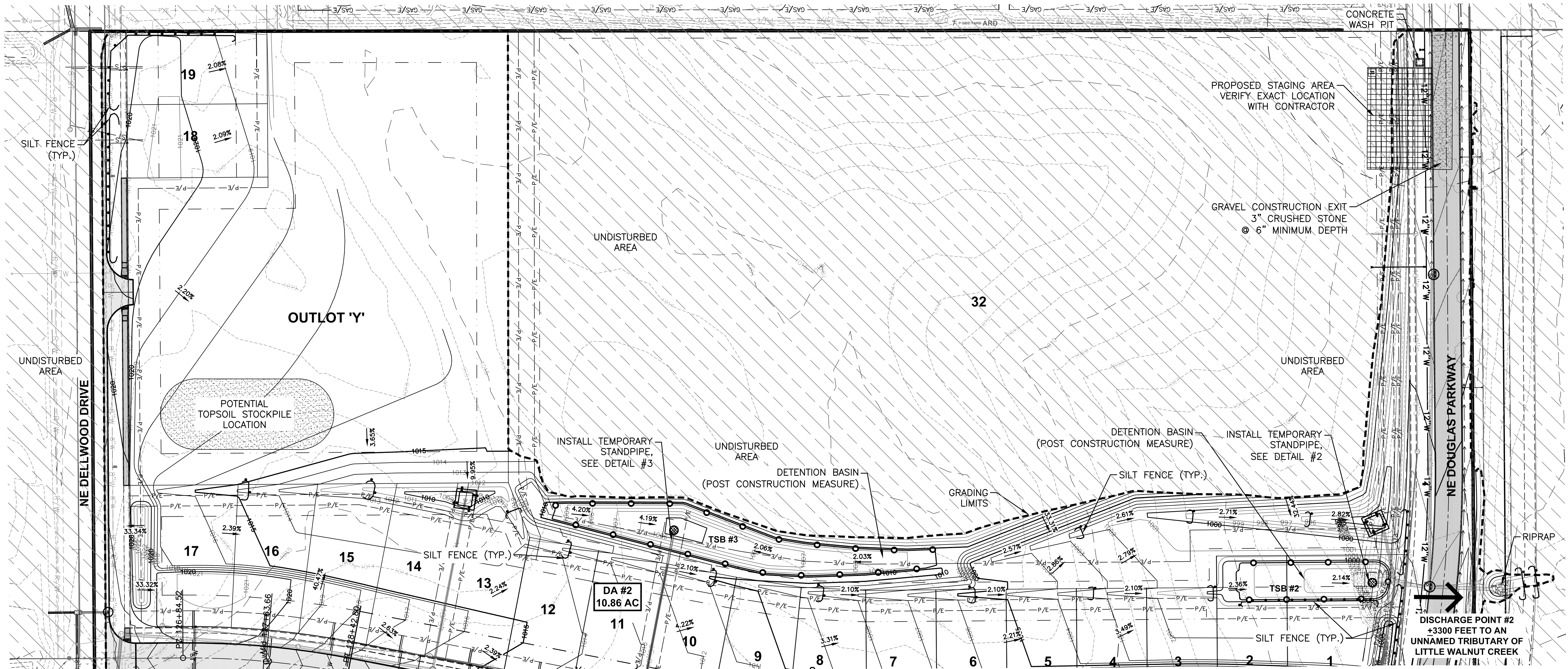
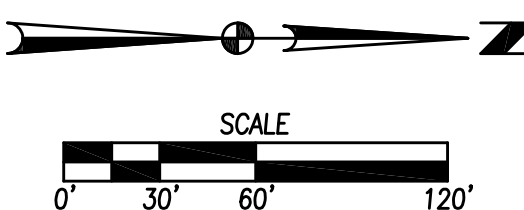
ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	2,681
2	SEEDING, FERTILIZING, AND MULCHING	AC	15.73
3	INLET PROTECTION DEVICES	EA	11
4	CONCRETE WASHOUT PIT	EA	1
6	12" HDPE TEMPORARY STANDPIPE	EA	1
7	15" HDPE TEMPORARY STANDPIPE	EA	1
8	18" HDPE TEMPORARY STANDPIPE	EA	1

DISCHARGE POINT SUMMARY

DISCHARGE POINT #1 TO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK ±3600 FT	5.71 ACRES
TOTAL AREA DISTURBED TO DISCHARGE POINT	20,556 CU FT
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	
VOLUME PROVIDED IN SILT FENCE (1,329 LF @ 4.5 CU FT/LF OF FENCE)	5,981 CU FT
VOLUME PROVIDED IN TSB #1	16,578 CU FT
TOTAL VOLUME PROVIDED	22,559 CU FT
DISCHARGE POINT #2 TO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK ±3300 FT	10.86 ACRES
TOTAL AREA DISTURBED TO DISCHARGE POINT	39,096 CU FT
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	
VOLUME PROVIDED IN SILT FENCE (1,252 LF CALC. AVG. @ 12.2 CU FT/LF OF FENCE)	15,274 CU FT
VOLUME PROVIDED IN TSB #2	8,505 CU FT
VOLUME PROVIDED IN TSB #3	18,301 CU FT
TOTAL VOLUME PROVIDED	42,080 CU FT

SWPPP LEGEND

DRAINAGE ARROW	X.XX %	AREA TO BE SEED	
GRADING LIMITS		STRAW MAT	
FILTER SOCK		UNDISTURBED AREA	
SILT FENCE		RIPRAP	
DITCH CHECK		GRAVEL ENTRANCE	
INLET PROTECTION		STAGING AREA	
PORTABLE RESTROOM	R	TEMPORARY SEDIMENT BASIN	TSB #
CONCRETE WASHOUT PIT			
TEMPORARY STANDPIPE			



FILE: H:\2015\1505276\SWPPP.DWG COMMENTS: DATE PLOTTED: 12/21/2016 5:31 PM PLOTTED BY: GALE HEROLD

DATE
12/22/16
AS-BUILT SUBMITTAL
08/01/16
REVISED WATERMAN
06/03/16
FINAL SUBMITTAL
05/12/16
FOURTH SUBMITTAL
04/21/16
THIRD SUBMITTAL
03/29/16
SECOND SUBMITTAL
02/22/16
FIRST SUBMITTAL

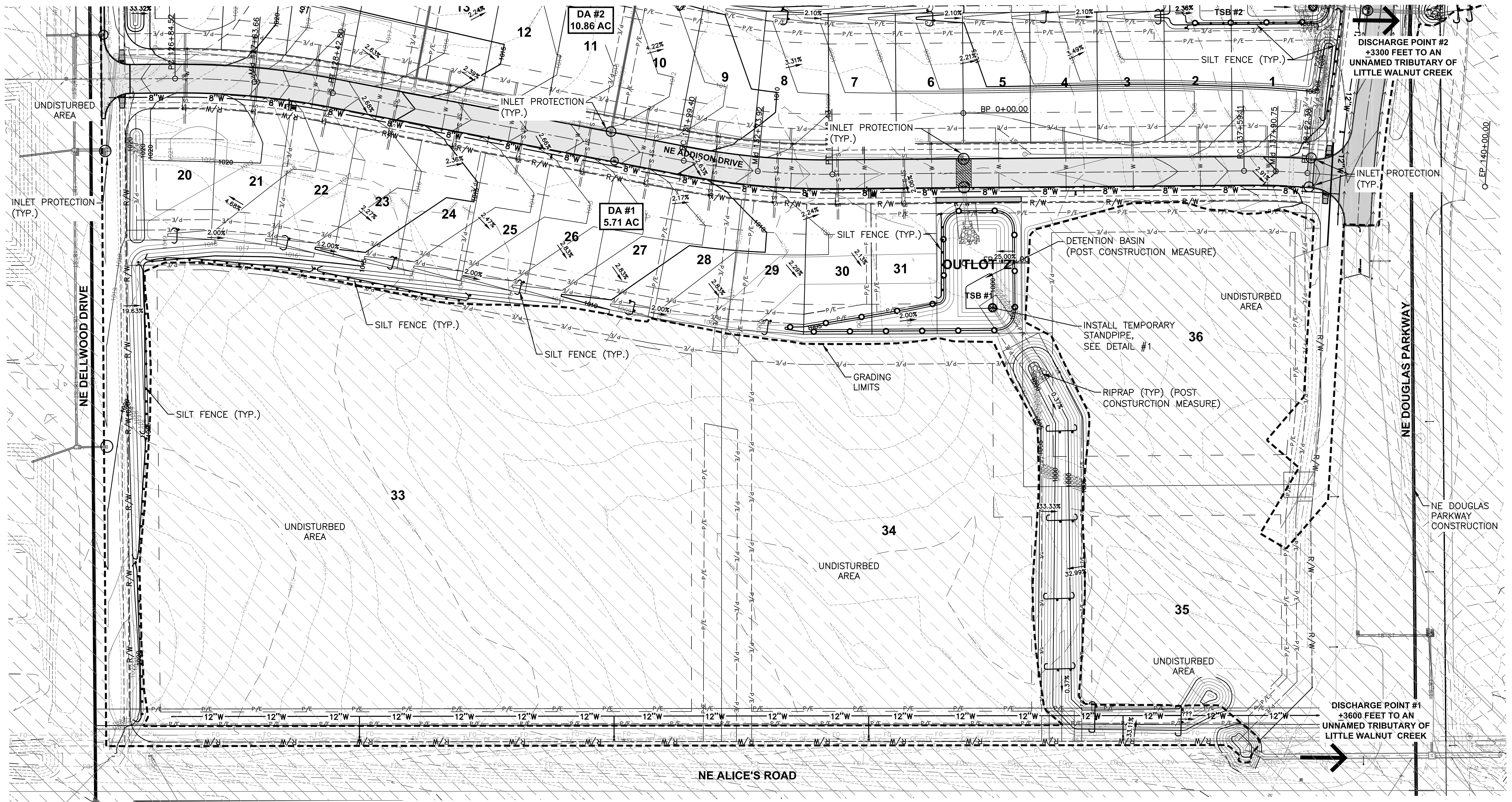
REVISIONS

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

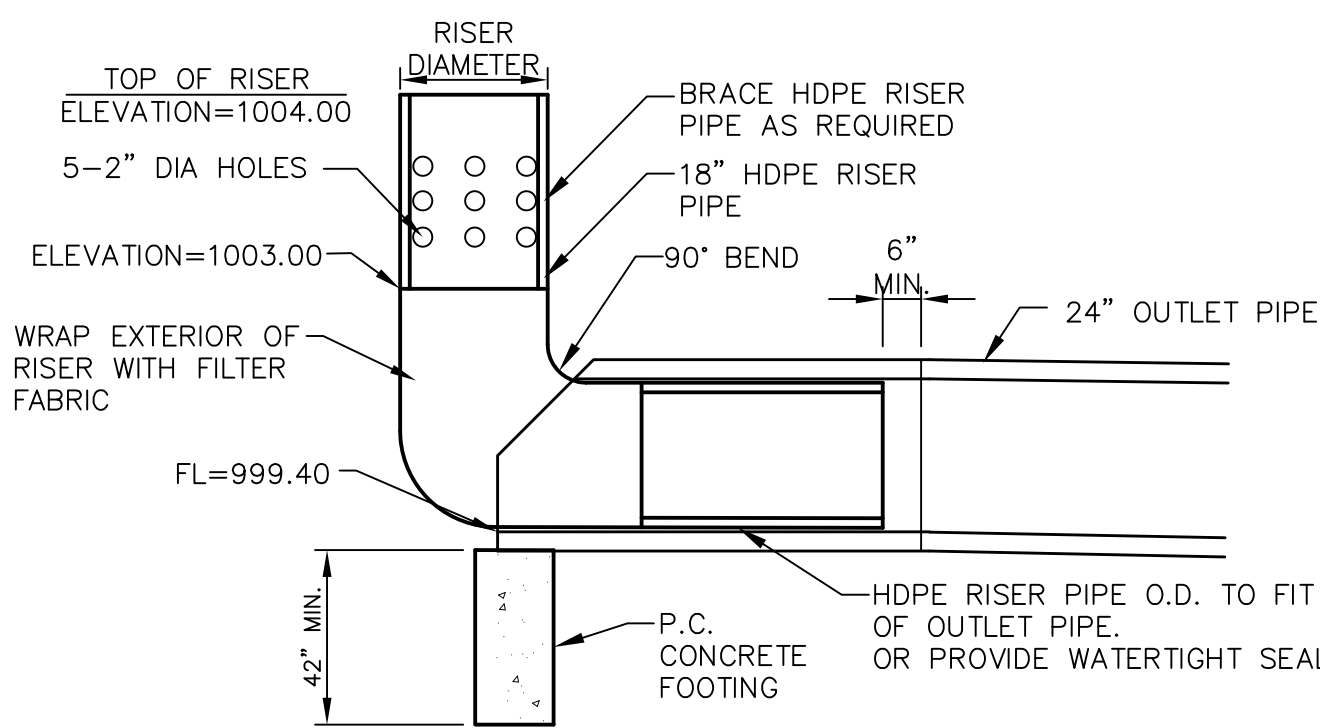
32
1505.276

LANDING AT SHADOW CREEK PLAT 4
EROSION & SEDIMENT CONTROL PLAN
CIVIL DESIGN ADVANTAGE
WAUKEEZ, IOWA

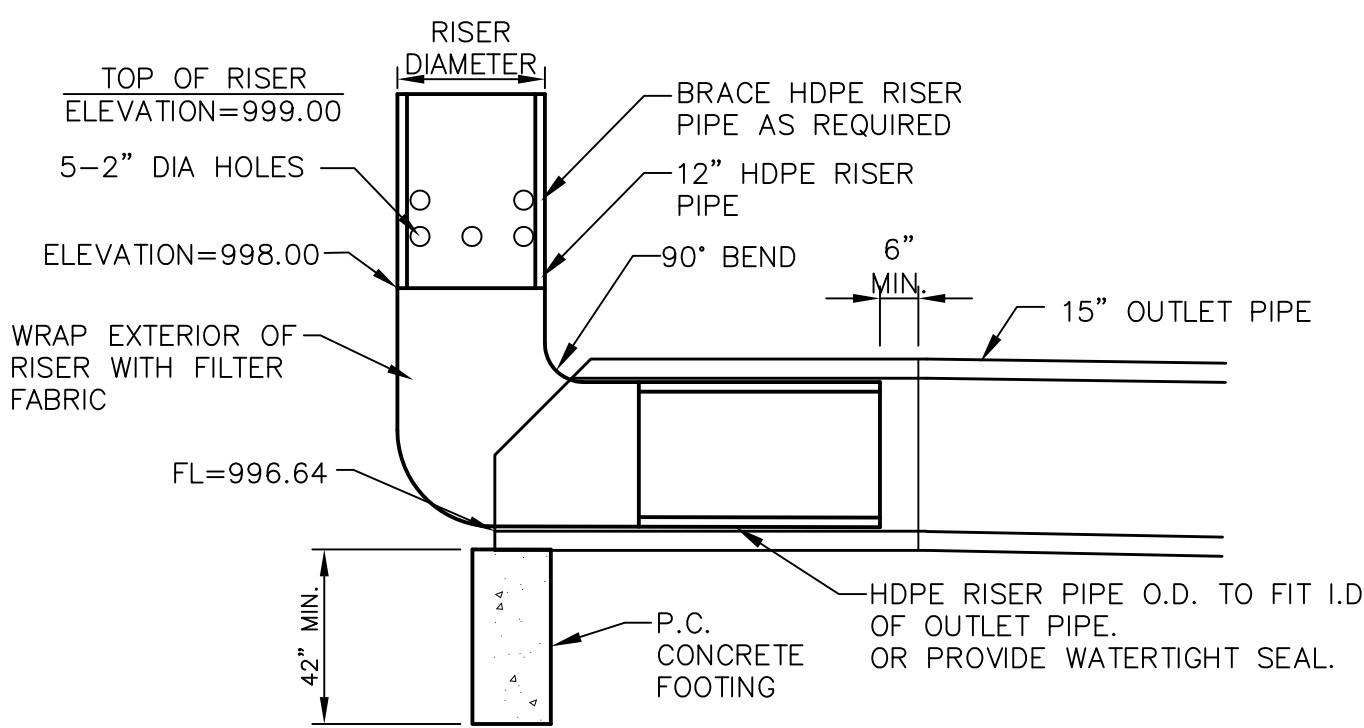
FILE: H:\2015\1505276\DWG\1505276-SWPPP.DWG COMMENT: DATE PLOTTED: 12/21/2016 5:31 PM
PLOTTER: HP PLOTTER
DRAWN BY: GALE HEROLD



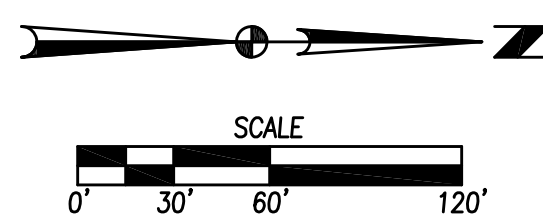
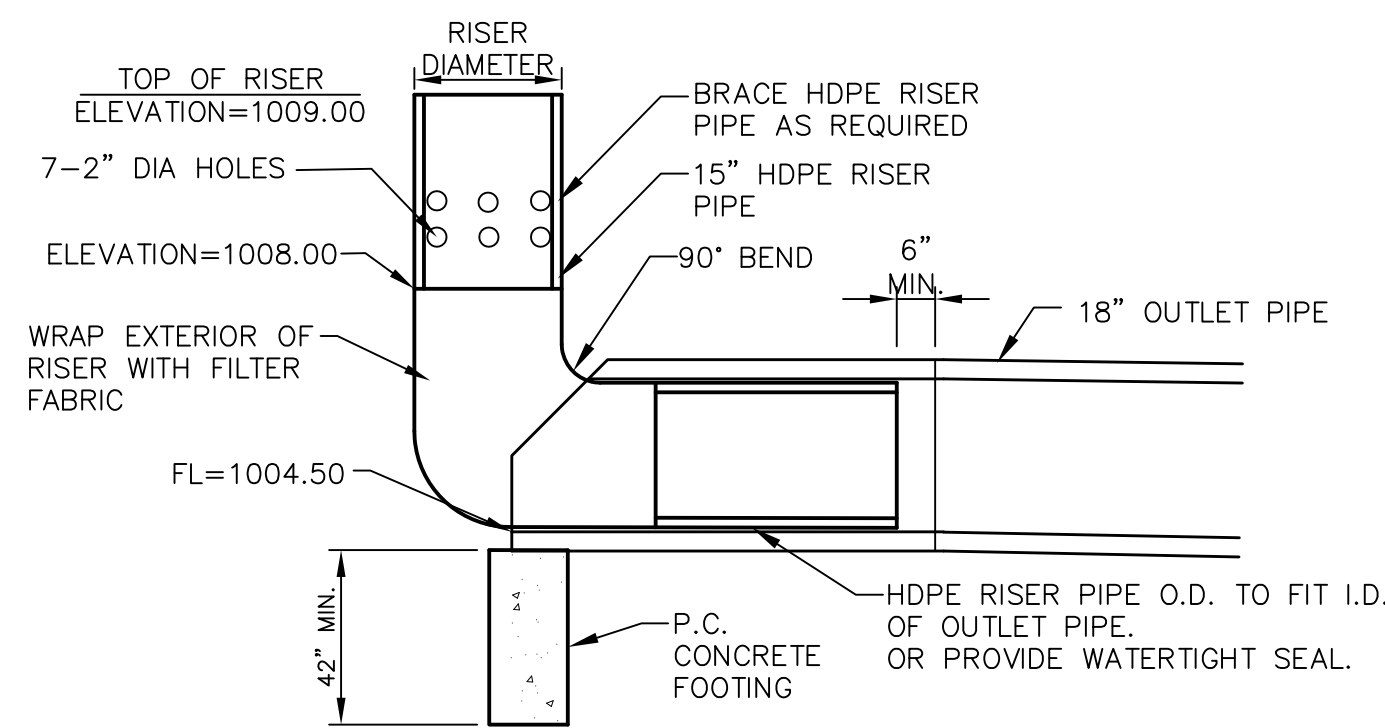
TEMPORARY STAND PIPE #1 DETAIL
NOT TO SCALE



TEMPORARY STAND PIPE #2 DETAIL
NOT TO SCALE



TEMPORARY STAND PIPE #3 DETAIL
NOT TO SCALE



DATE	
12/22/16	AS-BUILT SUBMITTAL
08/07/16	REVISED WATERMAIN
06/03/16	FINAL SUBMITTAL
05/12/16	FOURTH SUBMITTAL
04/27/16	THIRD SUBMITTAL
03/29/16	SECOND SUBMITTAL
02/22/16	FIRST SUBMITTAL

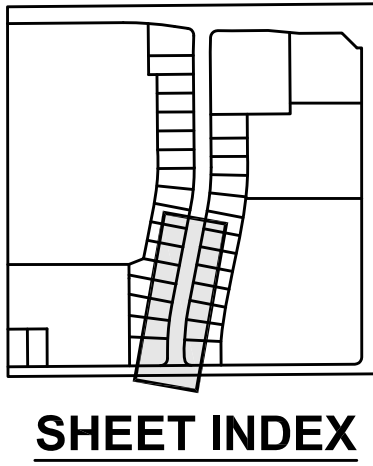
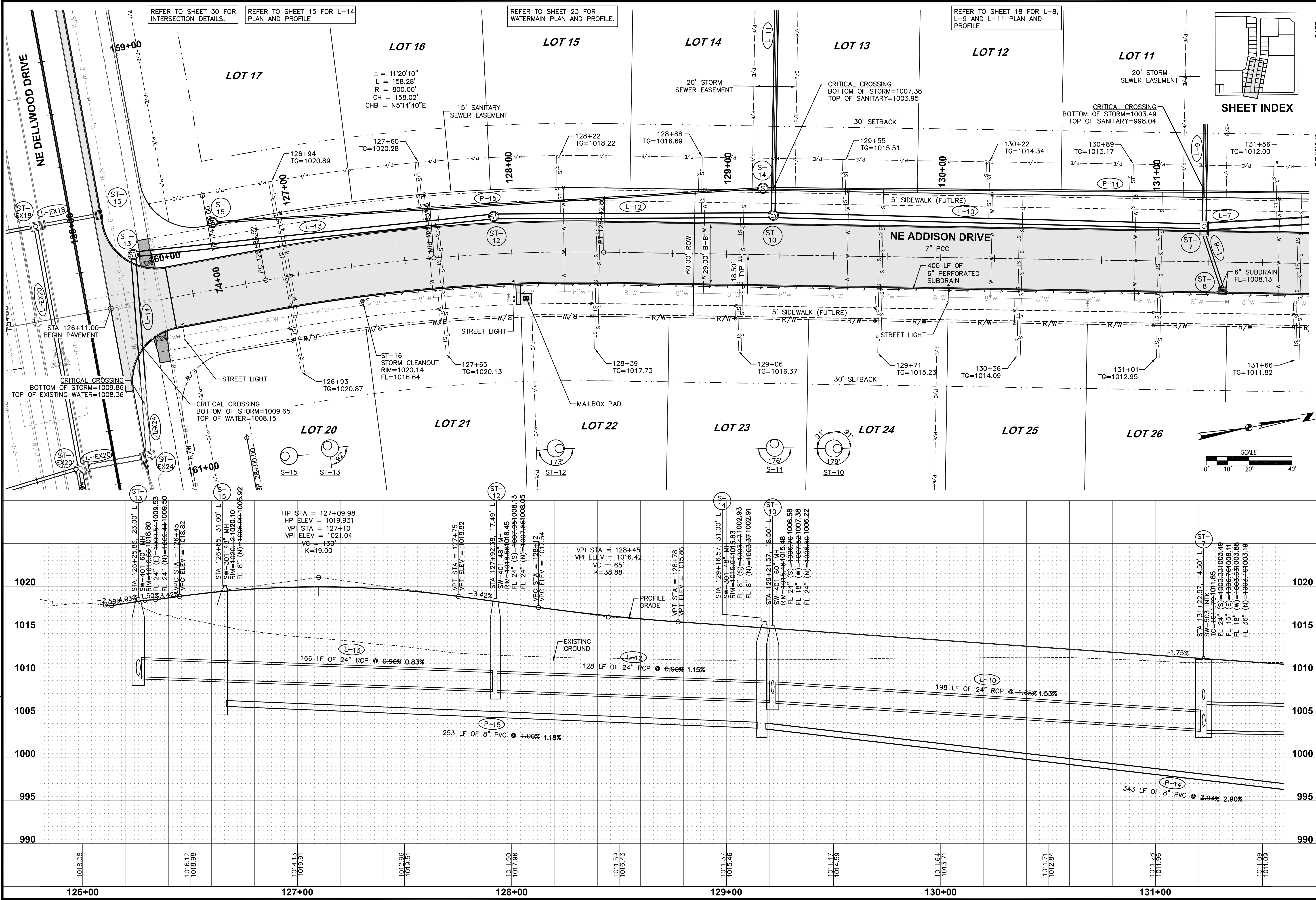
REVISIONS	
3405 S.E. CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PHONE: (515) 369-4400 FAX: (515) 369-4410	ENGINEER: EKO EI: GH

CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

10 LANDING AT SHADOW CREEK PLAT 4

EROSION & SEDIMENT CONTROL PLAN

1505.276



11

32

1505.276

LANDING AT SHADOW CREEK PLAT 4

STORM & SANITARY SEWER 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

DATE

12/22/16

AS-BUILT SUBMITTAL

08/01/16

REVISED WATERMAIN

06/03/16

FINAL SUBMITTAL

05/12/16

FOURTH SUBMITTAL

04/21/16

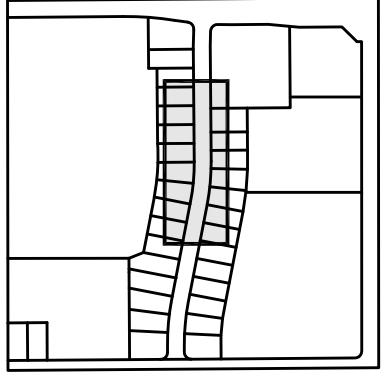
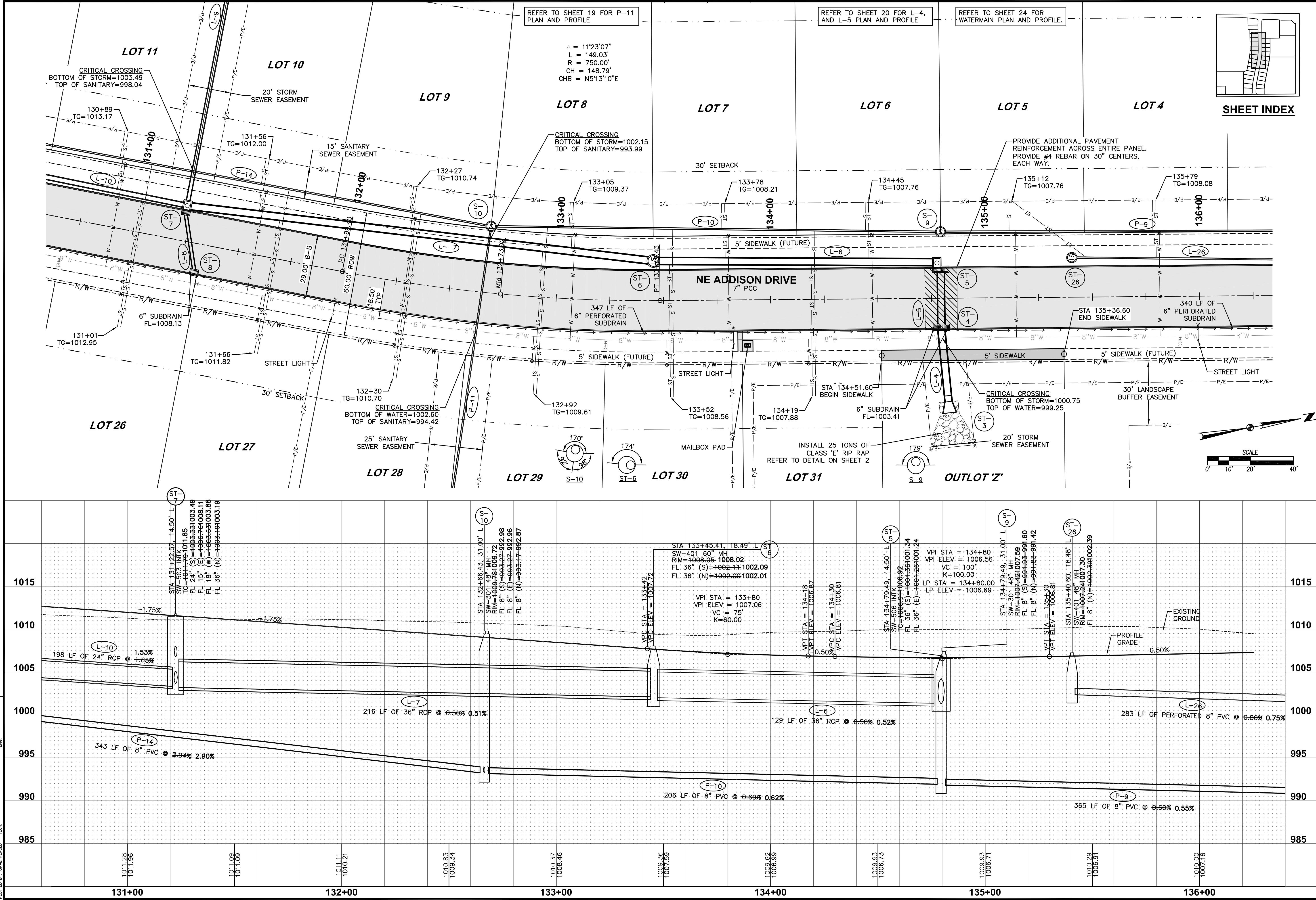
THIRD SUBMITTAL

03/29/16

FIRST SUBMITTAL

02/22/16

FILE: H:\2015\1505276\DWG\1505276-PWP-AS-BUILD.DWG
COMMENTS: AS-BUILT SUBMITTAL
PLOT DATE: 12/21/2016 5:38 PM
PLOTTER: HP DesignJet 2445



SHEET INDEX

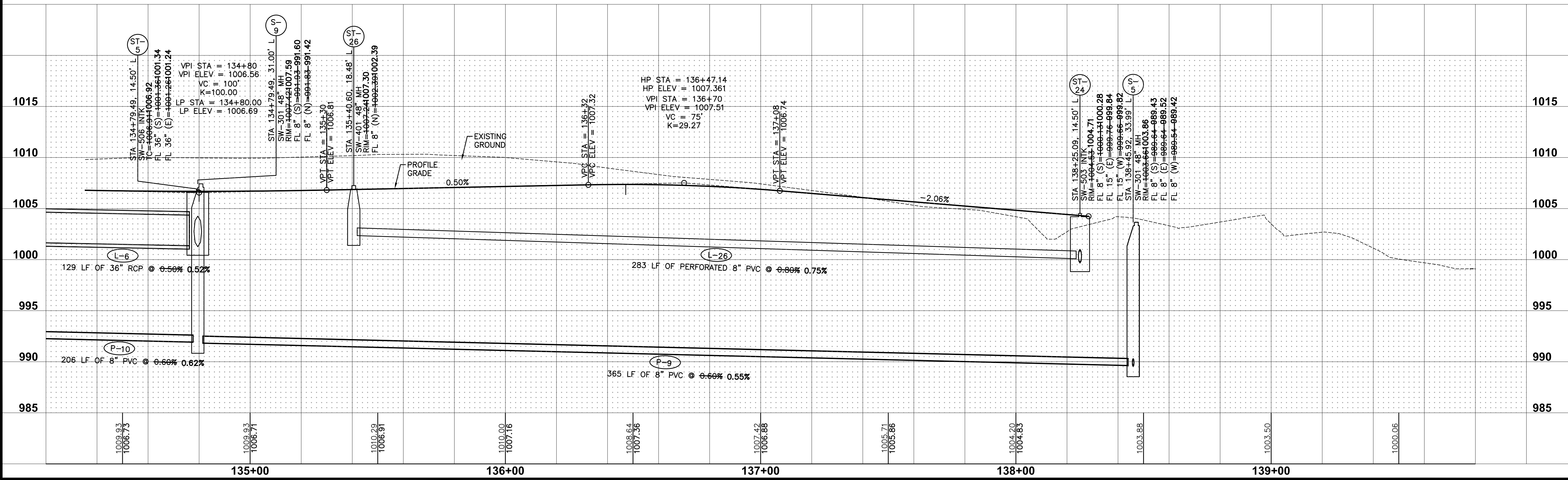
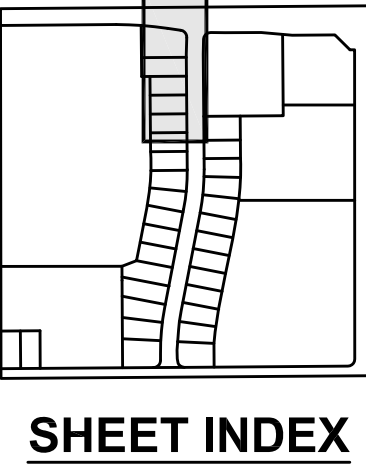
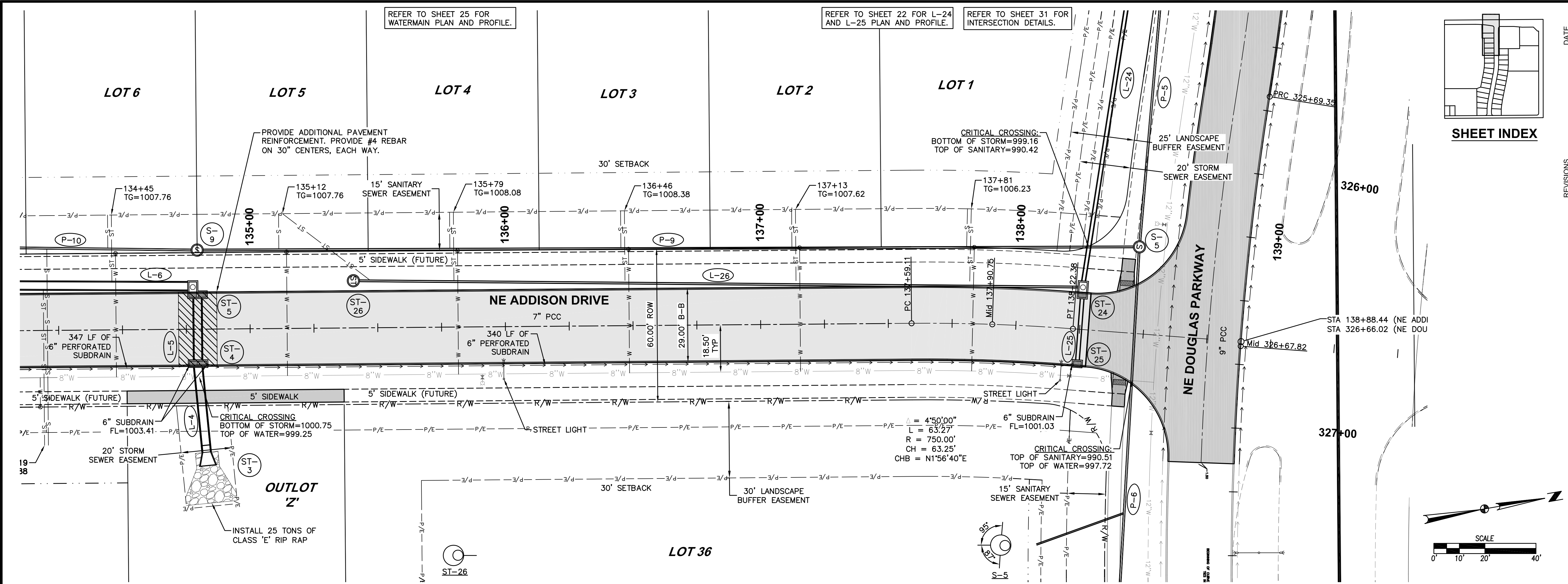
REVISIONS		DATE
AS-BUILT SUBMITTAL	12/22/16	
REVISED WATERMAIN	08/01/16	
FINAL SUBMITTAL	06/03/16	
FOURTH SUBMITTAL	05/12/16	
THIRD SUBMITTAL	04/21/16	
SECOND SUBMITTAL	03/29/16	
FIRST SUBMITTAL	02/22/16	

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

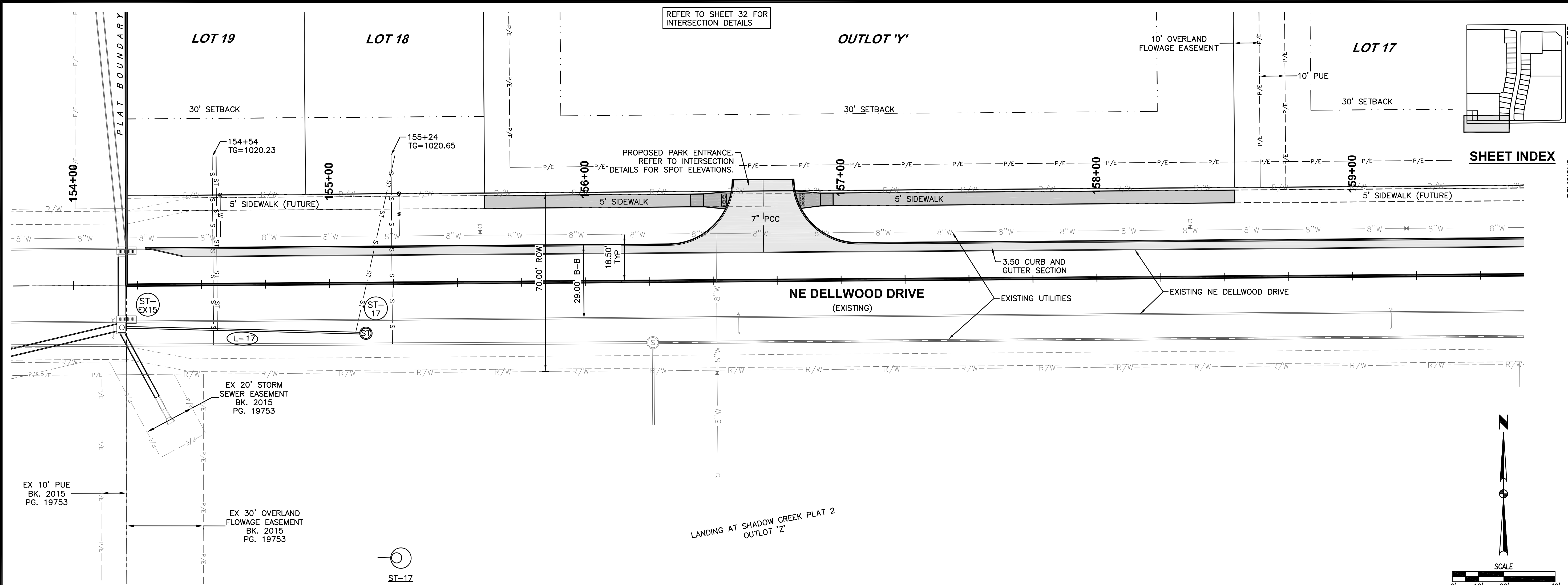
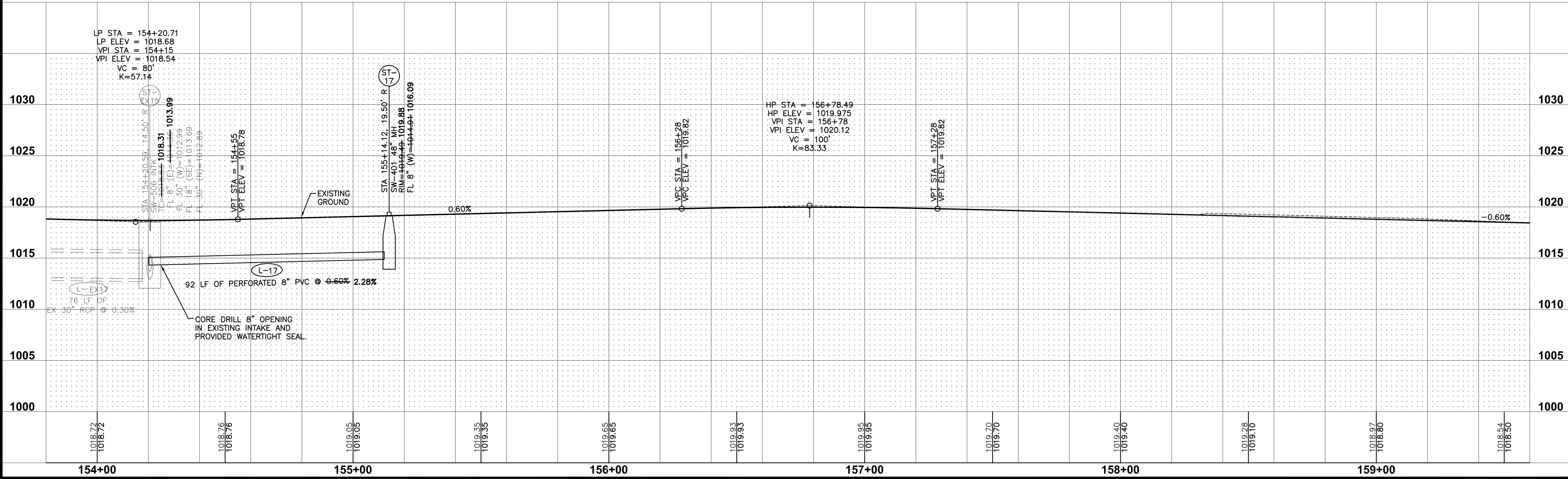
12/32
1505.276

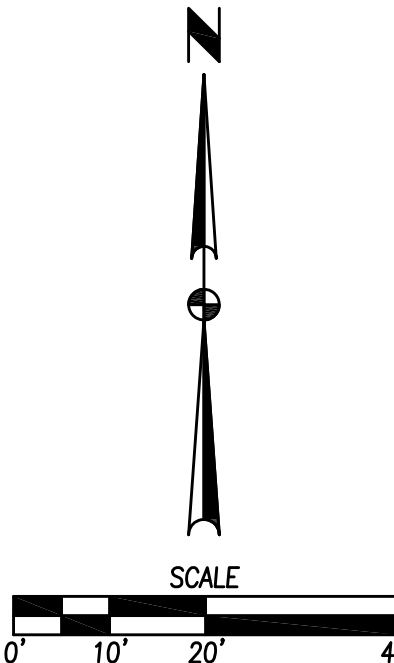
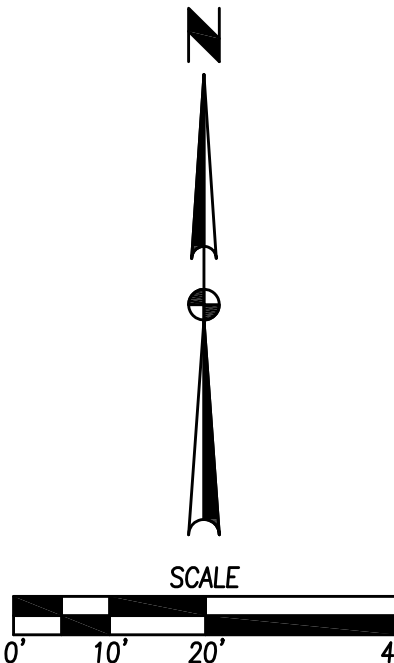
LANDING AT SHADOW CREEK PLAT 4
STORM & SANITARY SEWER PLAN AND PROFILE

CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

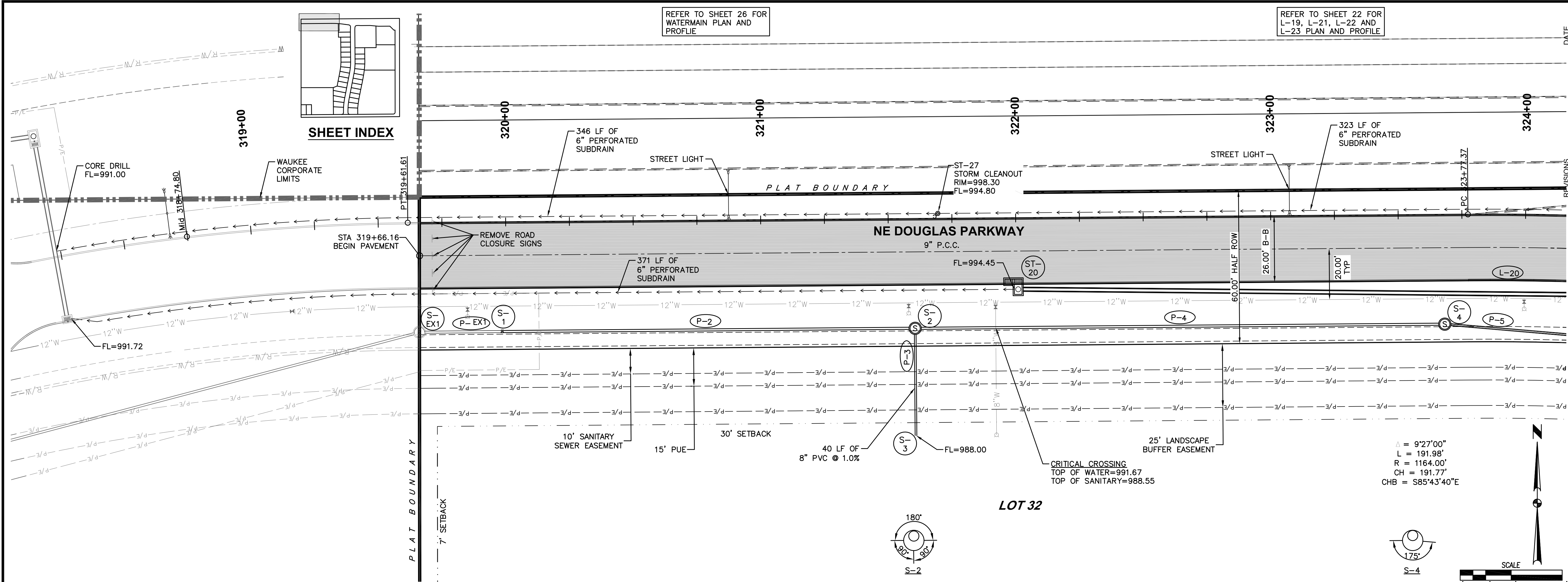
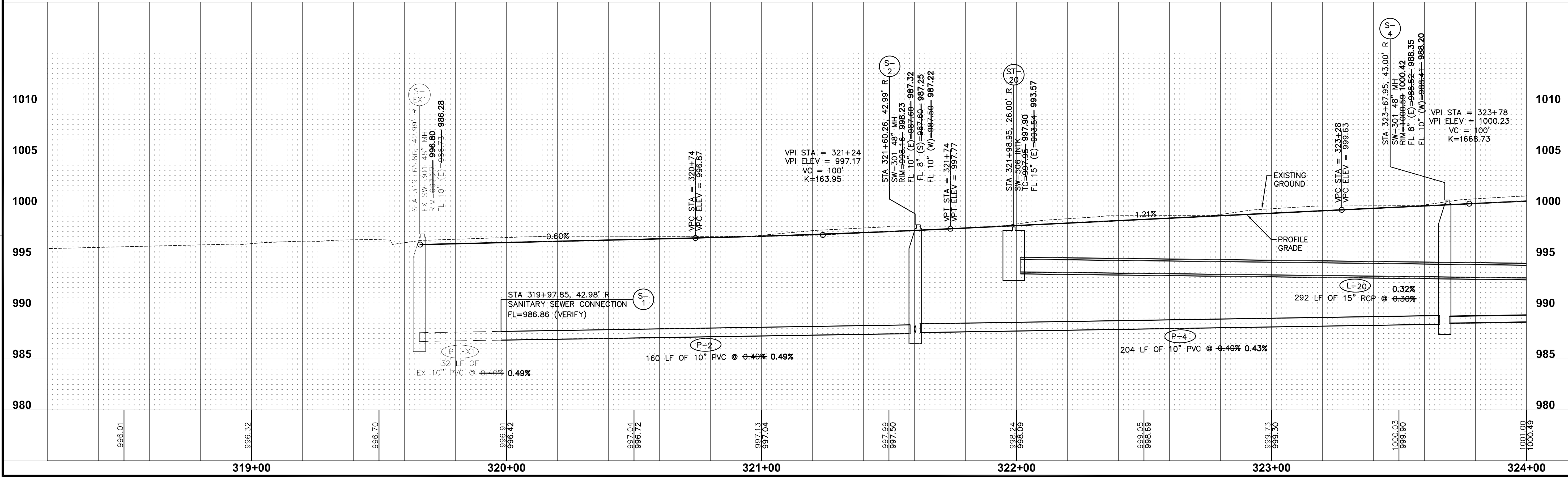


FILE: H:\2015\509276\DWG\509276-TMP-AS-BUILD.DWG COMMENTS: 12/21/2016 5:37 PM
PLOTTER: HP DesignJet 5000 PS
PLOTTER: HP DesignJet 5000 PS

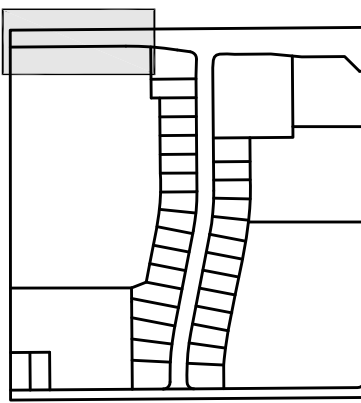




FILE: H:\2015\1505276\DWG\1505276-PNP-AS-BUILD.DWG COMMENTS:
DATE: 12/21/2016 5:38 PM
PLOTTER: B1, 24" x 36" HPGL
PLOT SCALE: 1"=40'



SHEET INDEX



REFER TO SHEET 26 FOR
WATERMAIN PLAN AND
PROFILE

REFER TO SHEET 22 FOR
L-19, L-21, L-22 AND
L-23 PLAN AND PROFILE

12/22/16
08/01/16
06/03/16
05/12/16
04/21/16
03/29/16
02/22/16

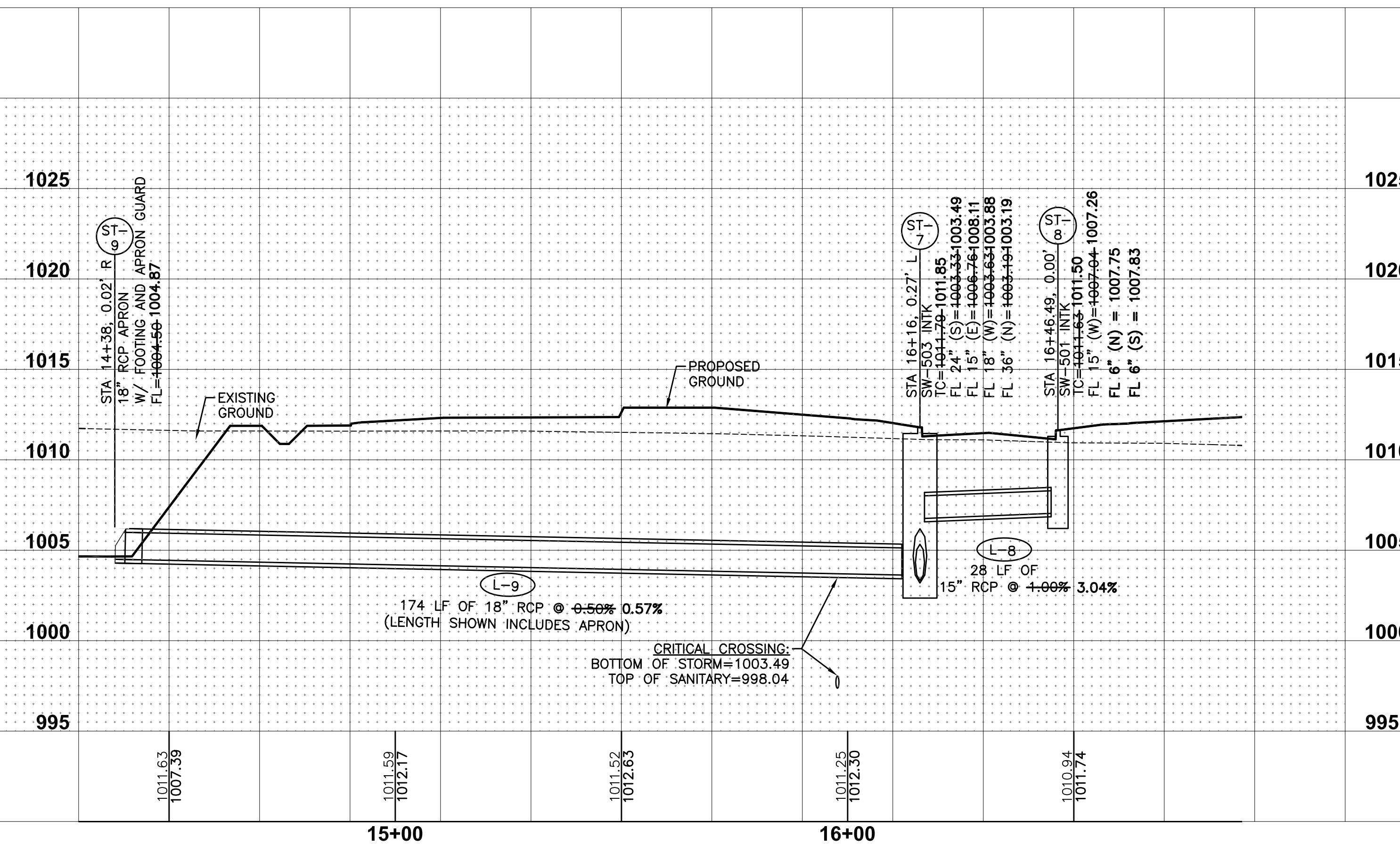
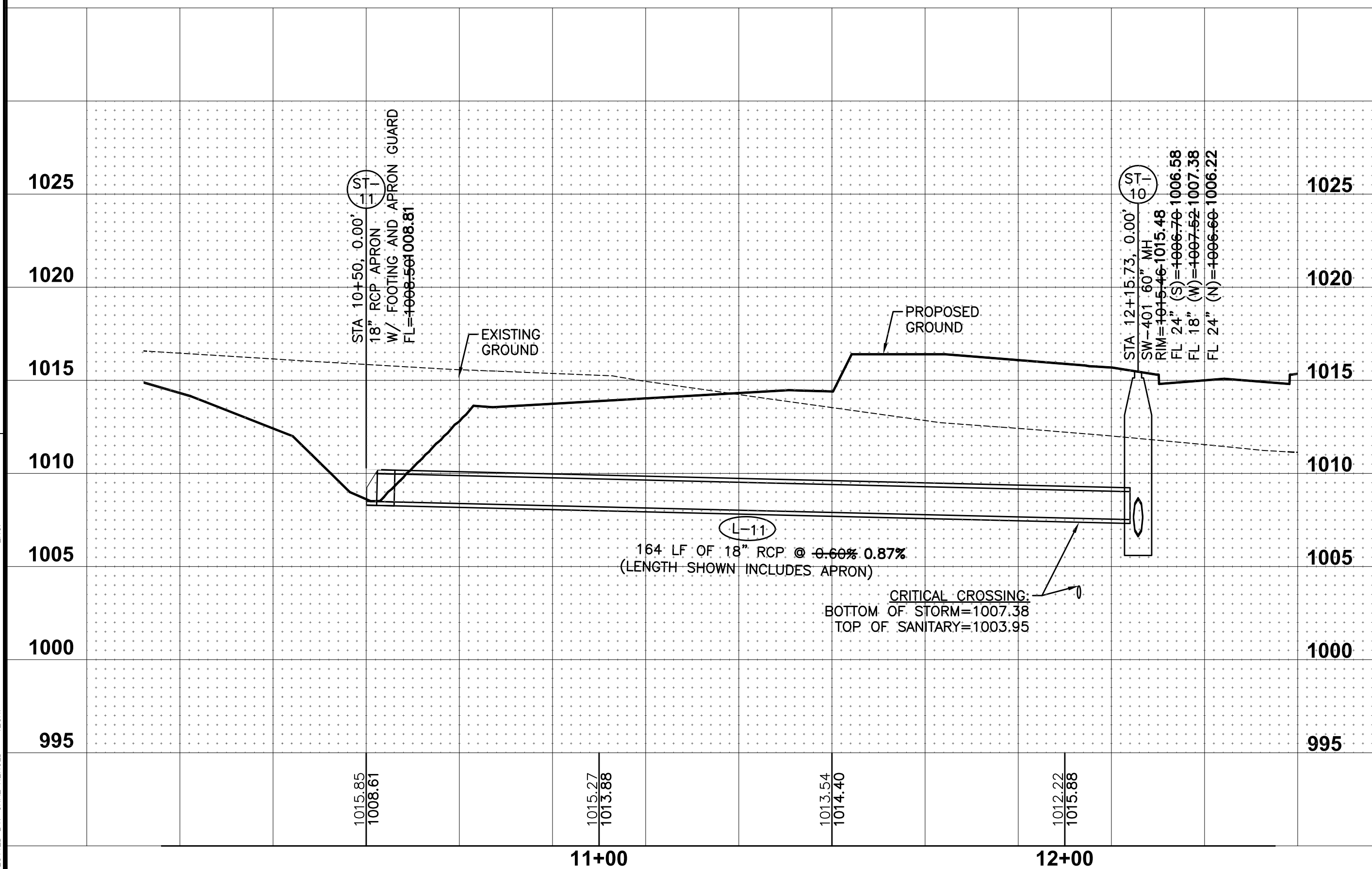
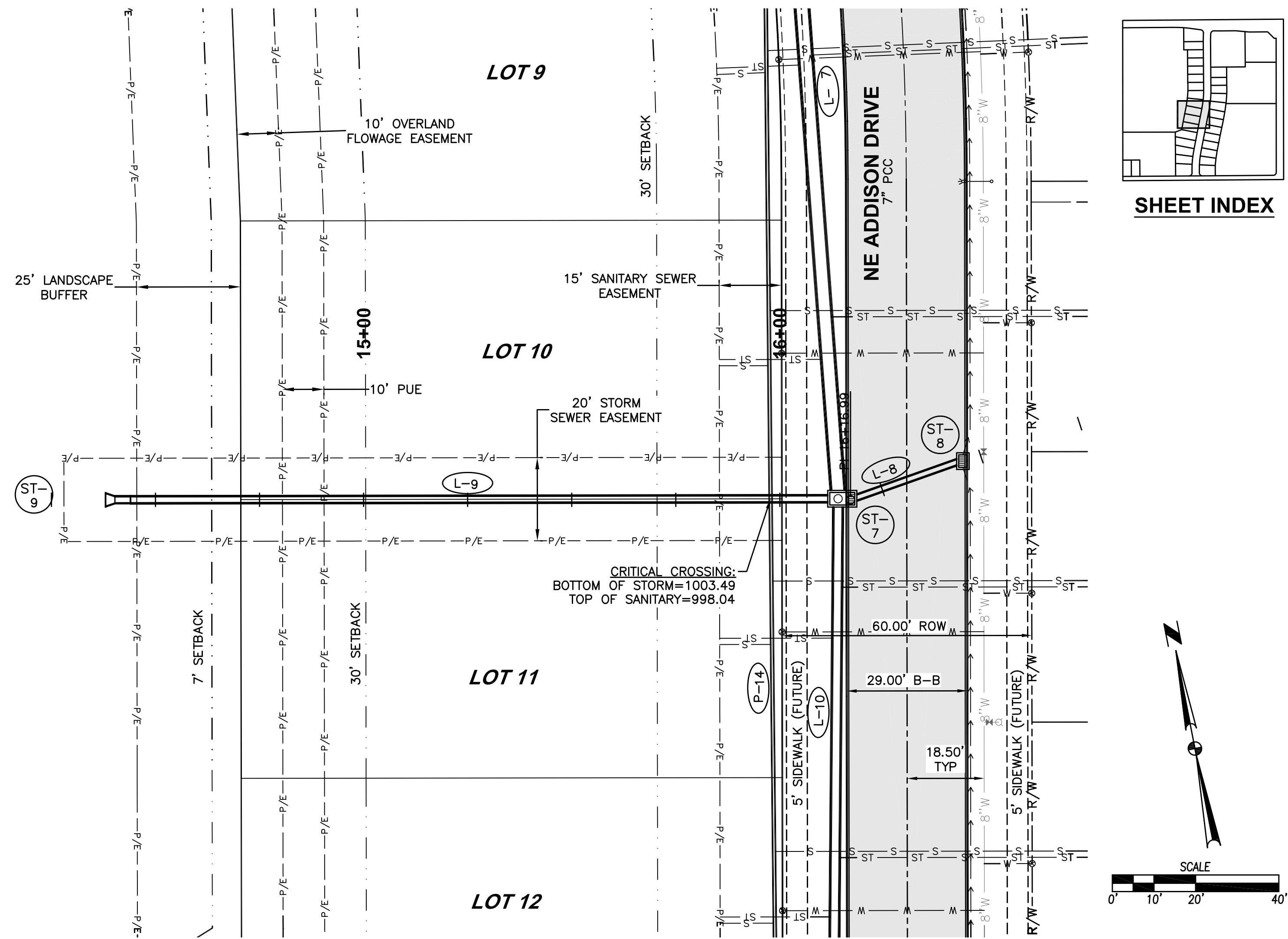
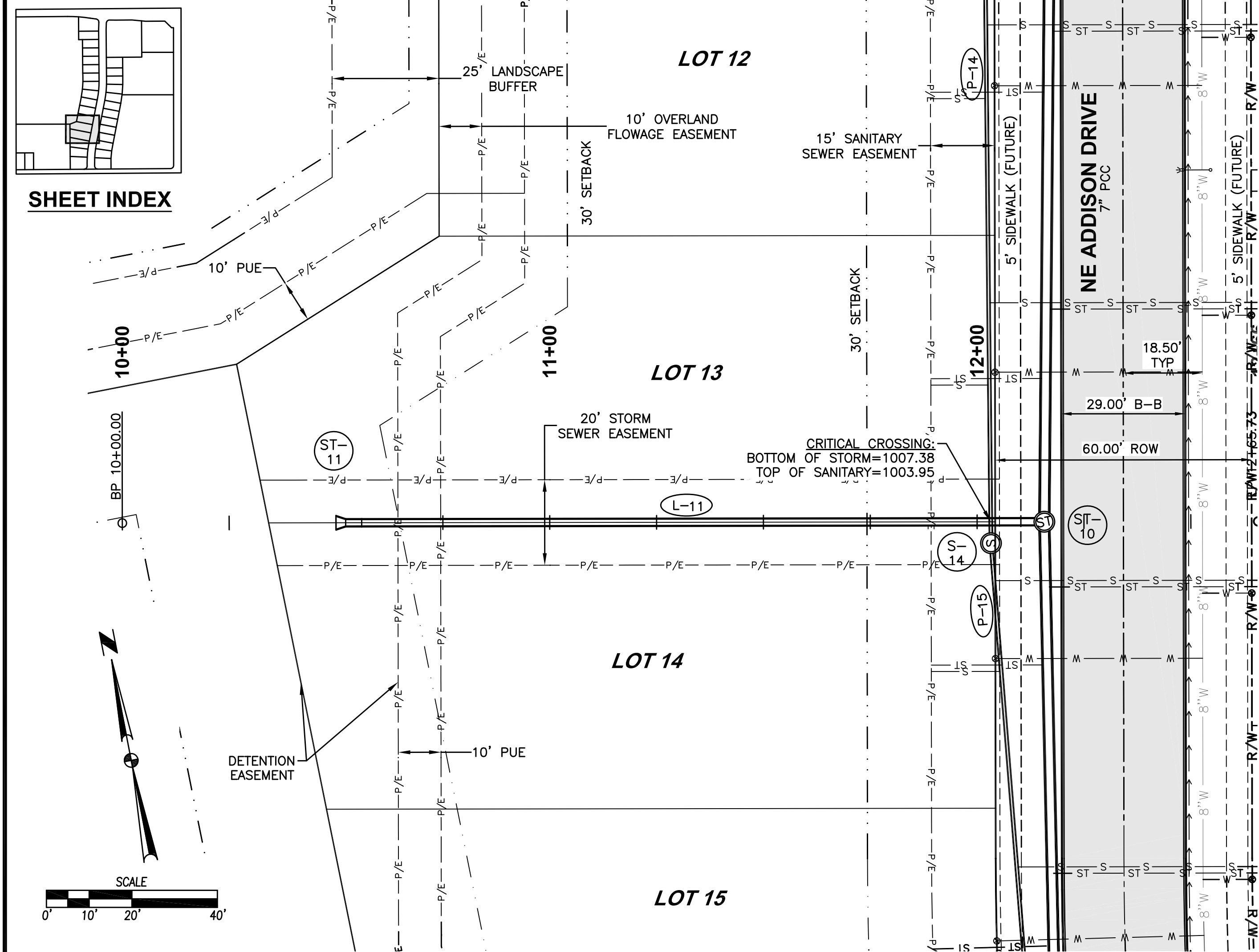
AS-BUILT SUBMITTAL
REVISED WATERMAIN
FINAL SUBMITTAL
FOURTH SUBMITTAL
THIRD SUBMITTAL
SECOND SUBMITTAL
FIRST SUBMITTAL

DATE
REVISIONS

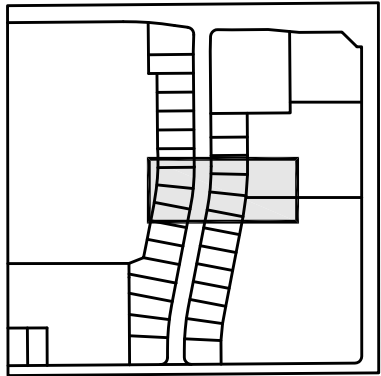
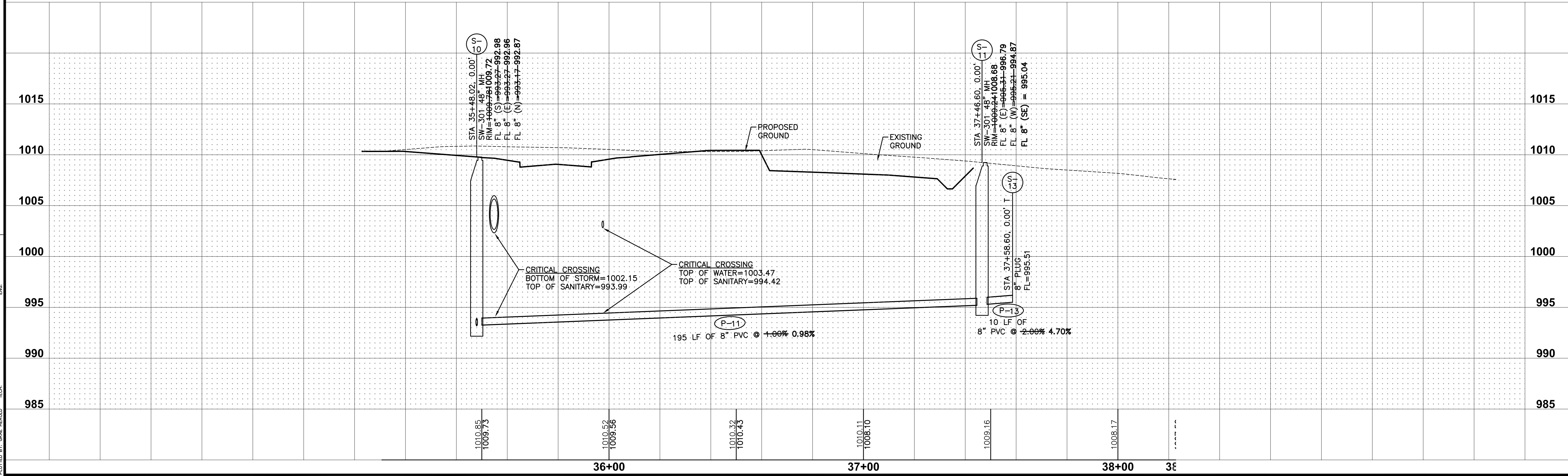
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
Ei: GH

CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

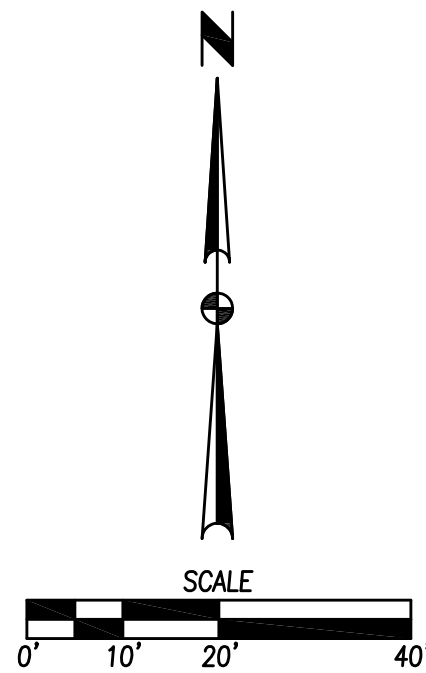
LANDING AT SHADOW CREEK PLAT 4
STORM & SANITARY SEWER PLAN AND PROFILE
16/32
1505.276



FILE: H:\2015\1505276\DWG\1505276-PWP-AS-BUILD.DWG
DATE: 12/21/2016 5:35 PM
DRAWN BY: JACOB HEROLD
CHECKED BY: JACOB HEROLD
COMMENTS:

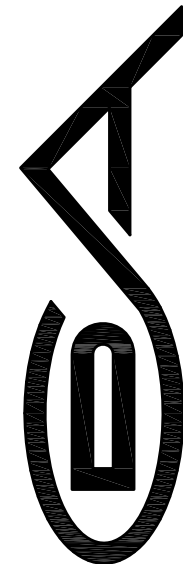


SHEET INDEX



REVISIONS	DATE
AS-BUILT SUBMITTAL	12/22/16
REVISED WATERMAIN	08/01/16
FINAL SUBMITTAL	06/03/16
FOURTH SUBMITTAL	05/12/16
THIRD SUBMITTAL	04/21/16
SECOND SUBMITTAL	03/29/16
FIRST SUBMITTAL	02/22/16

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



WAUKEE, IOWA

LANDING AT SHADOW CREEK PLAT 4
STORM & SANITARY SEWER PLAN AND PROFILE

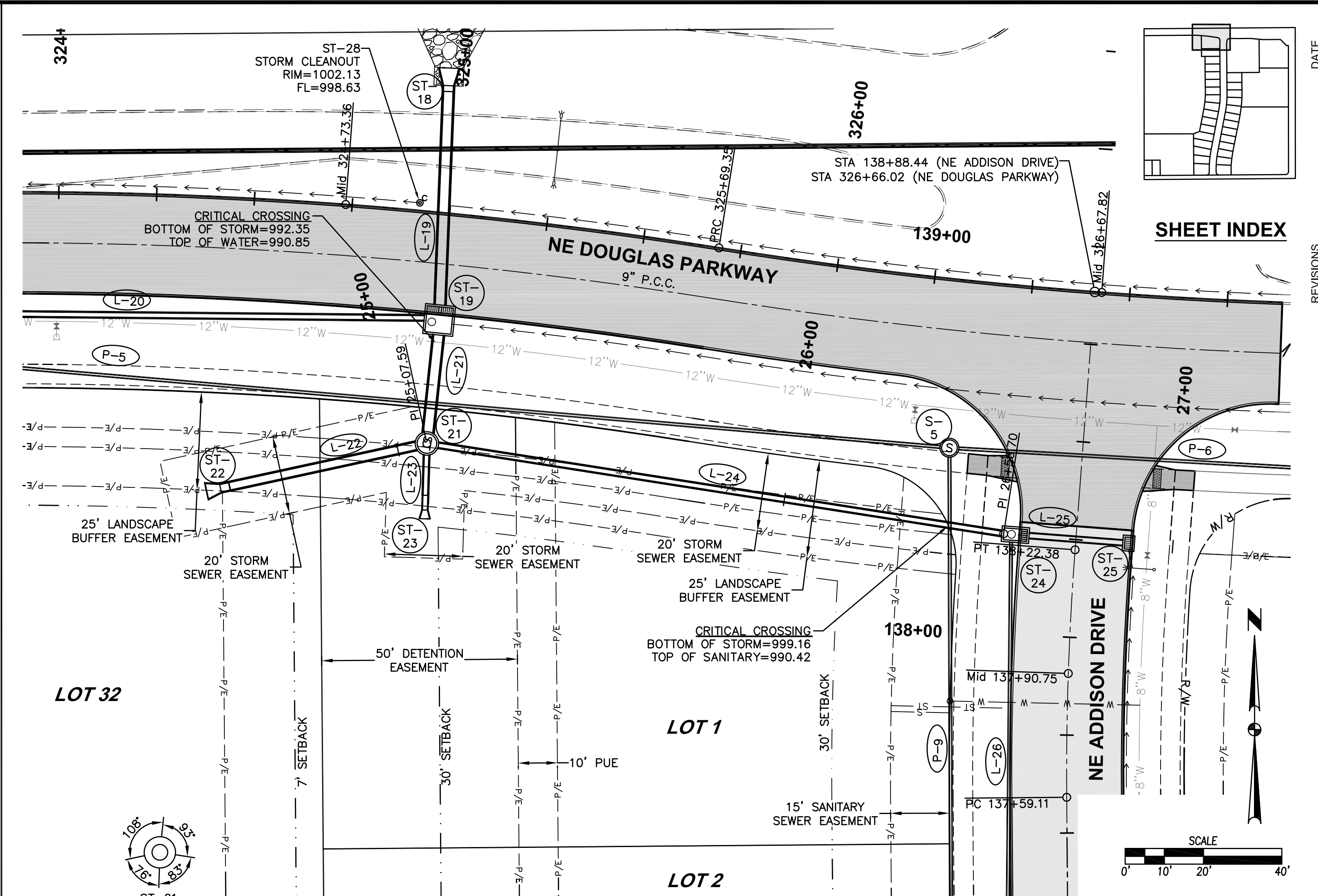
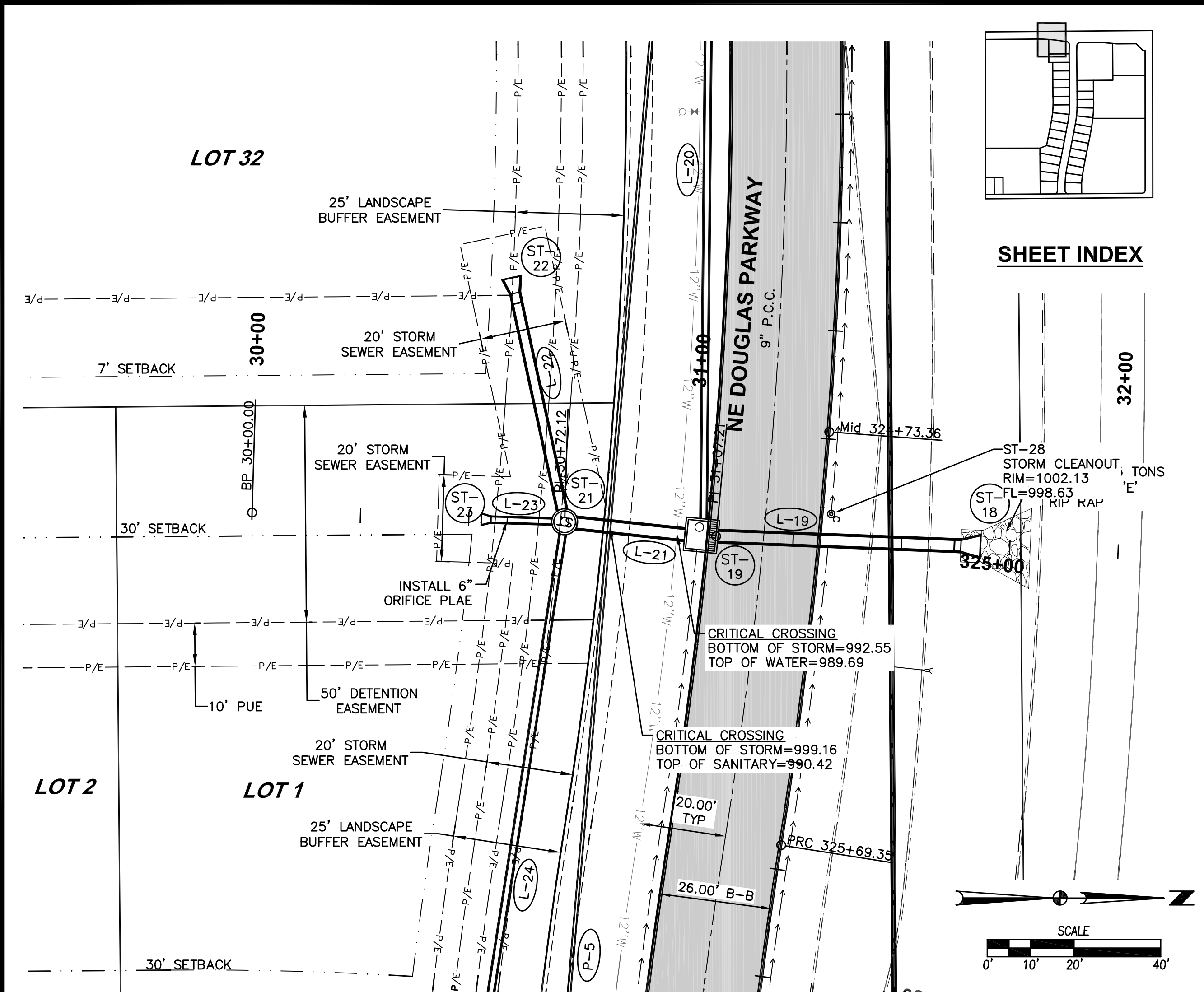
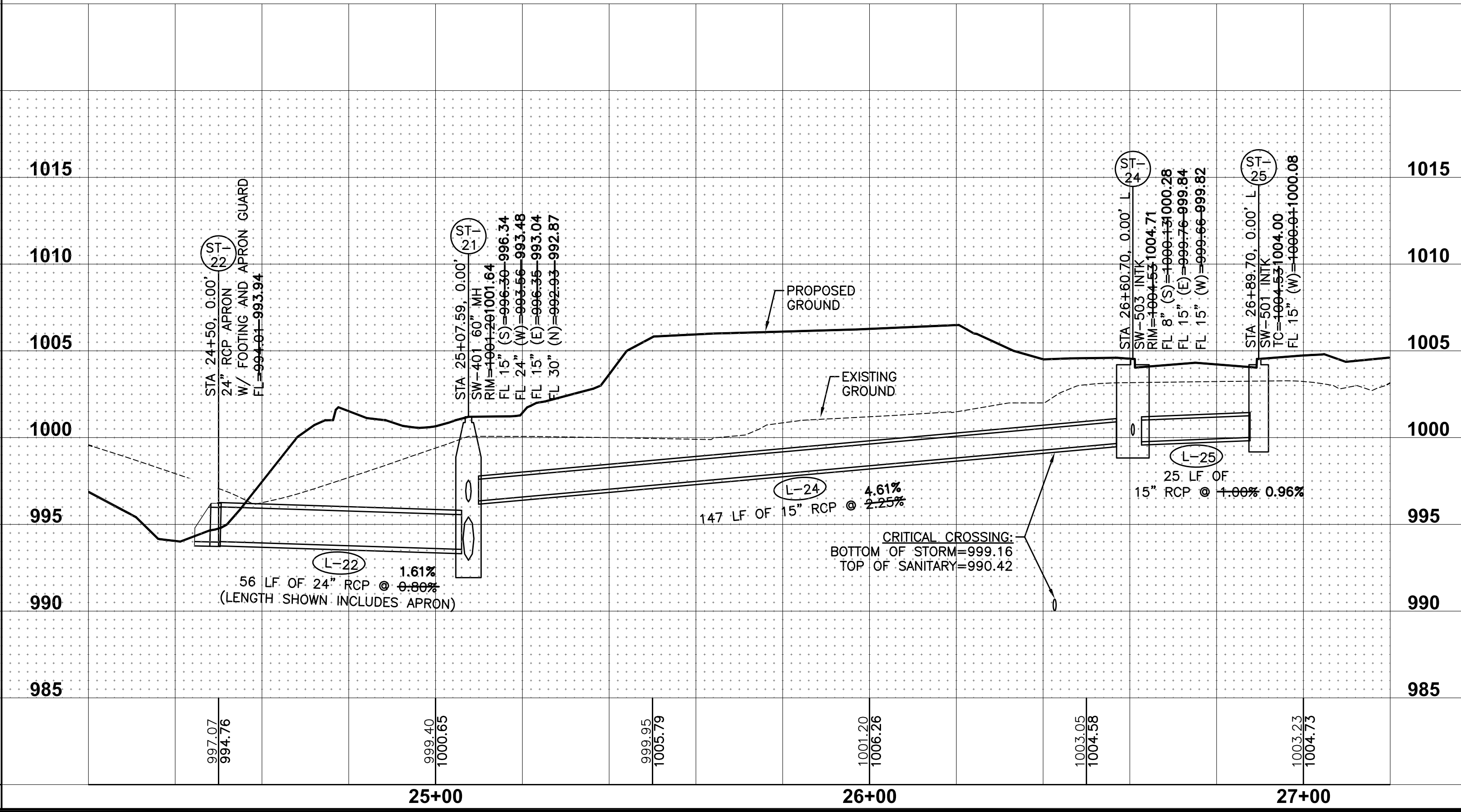
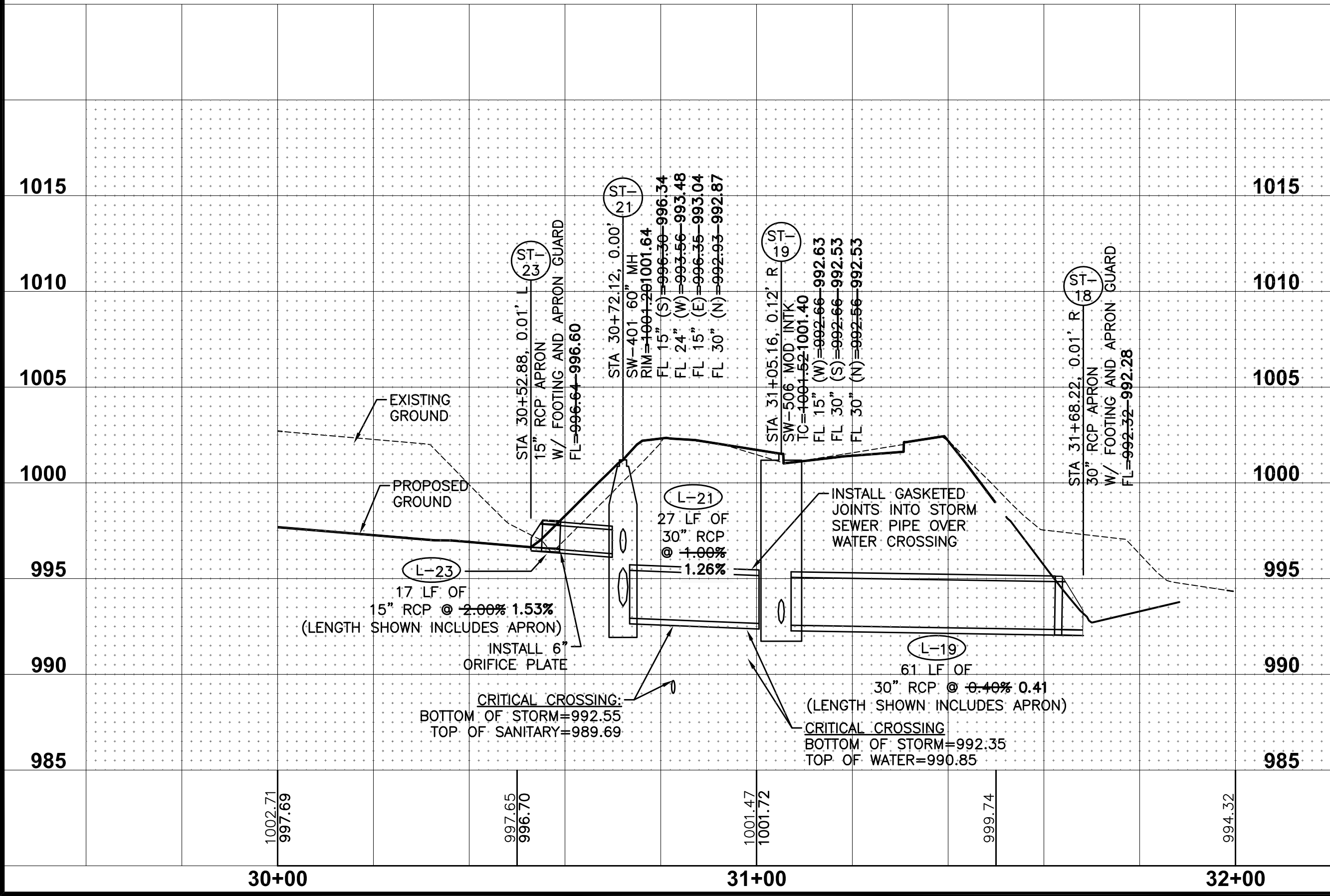
19/32

1505.276

ENGINEER: EKO

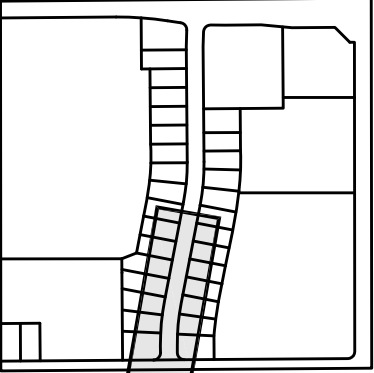
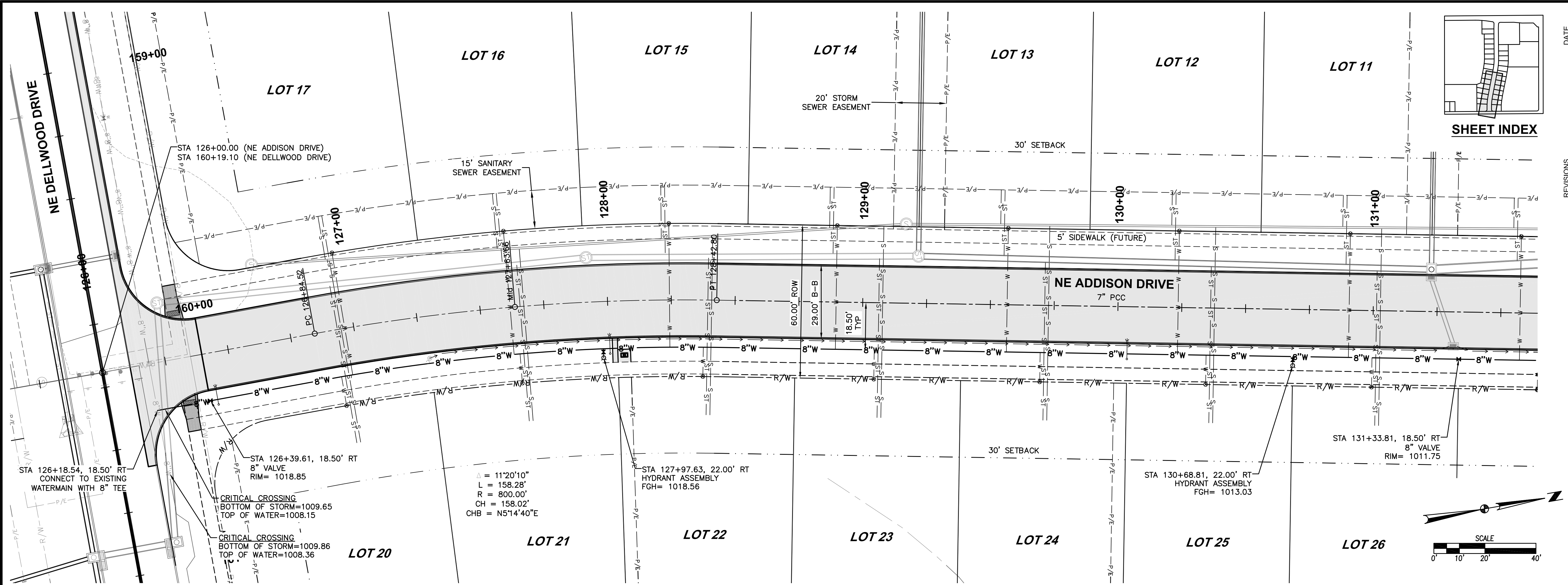
EI: GH

FILE: H:\2015\1505276\DWG\1505276-RP-AS-BUILD.DWG
DATE: 12/21/2016 5:34 PM
DRAWN BY: J. HERRICK
CHECKED BY: J. HERRICK
COMMENTS:

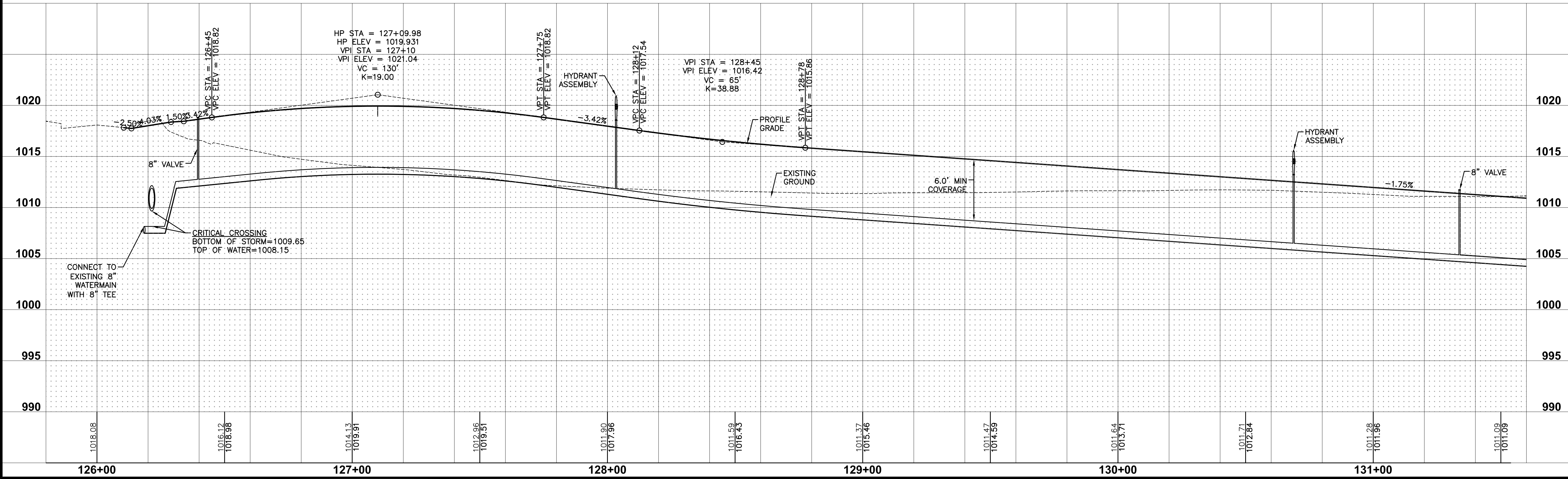
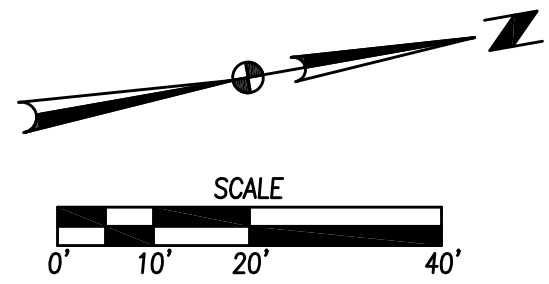


DATE	REVISIONS
12/22/16	AS-BUILT SUBMITTAL
08/07/16	REVISED WATERMAIN
06/03/16	FINAL SUBMITTAL
05/12/16	FOURTH SUBMITTAL
04/21/16	THIRD SUBMITTAL
03/29/16	SECOND SUBMITTAL
02/22/16	FIRST SUBMITTAL

FILE: H:\2015\1505276-DWG\1505276-PWP WATERMAIN.DWG
DATE PLOTTED: 12/21/2016 5:41 PM
DRAWN BY: J. K. HEROLD
CHECKED BY: J. K. HEROLD
COMMENTS:



SHEET INDEX



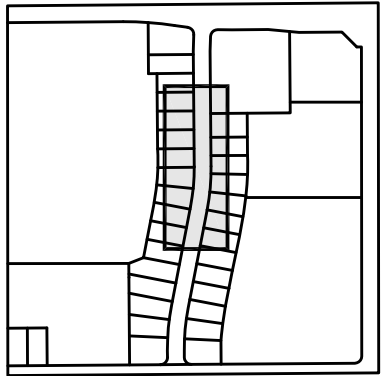
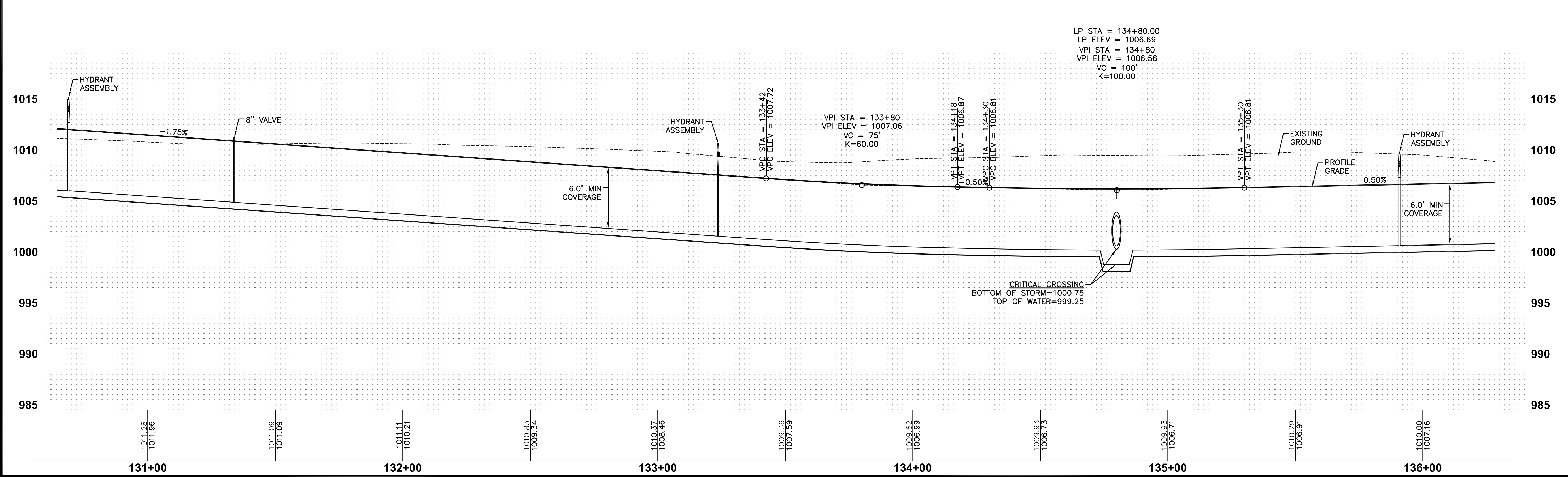
REVISIONS		DATE
AS-BUILT SUBMITTAL	12/22/16	
REVISED WATERMAIN	08/01/16	
FINAL SUBMITTAL	06/03/16	
FOURTH SUBMITTAL	05/12/16	
THIRD SUBMITTAL	04/21/16	
SECOND SUBMITTAL	03/29/16	
FIRST SUBMITTAL	02/22/16	

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

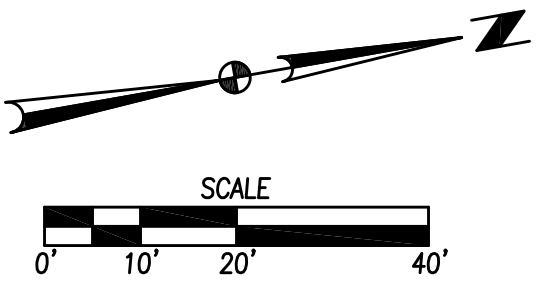
23
32
1505.276

LANDING AT SHADOW CREEK PLAT 4
WATERMAIN PLAN & PROFILE

CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

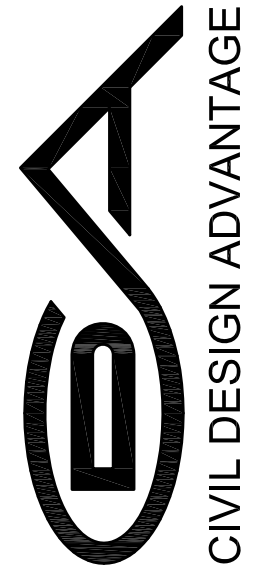


SHEET INDEX



REVISIONS	DATE
AS-BUILT SUBMITTAL	12/22/16
REVISED WATERMAIN	08/01/16
FINAL SUBMITTAL	06/03/16
FOURTH SUBMITTAL	05/12/16
THIRD SUBMITTAL	04/21/16
SECOND SUBMITTAL	03/29/16
FIRST SUBMITTAL	02/22/16

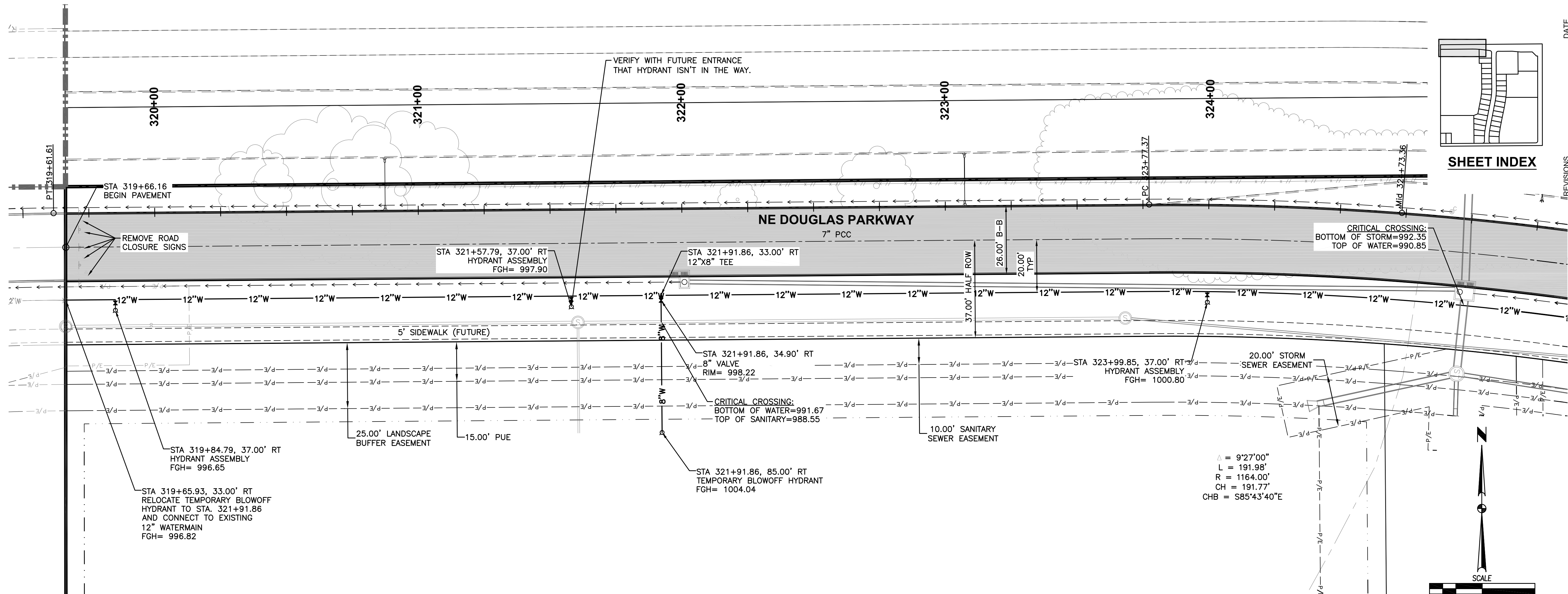
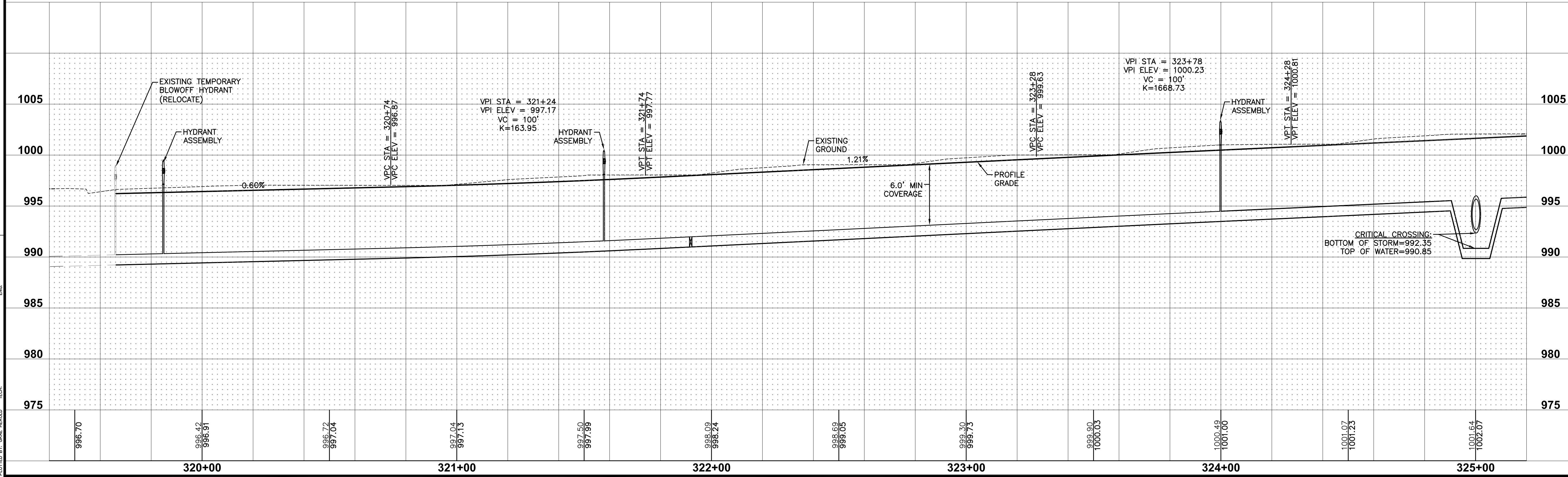
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
EI: GH



WAUKEE, IOWA

LANDING AT SHADOW CREEK PLAT 4
WATERMAIN PLAN & PROFILE

FILE: H:\2015\1505276-IMP WATERMAIN.DWG COMMENT: DATE: 12/21/2016 5:40 PM
PLOTTER: HP PLOTTER
PLOTTER: HP PLOTTER



SHEET INDEX

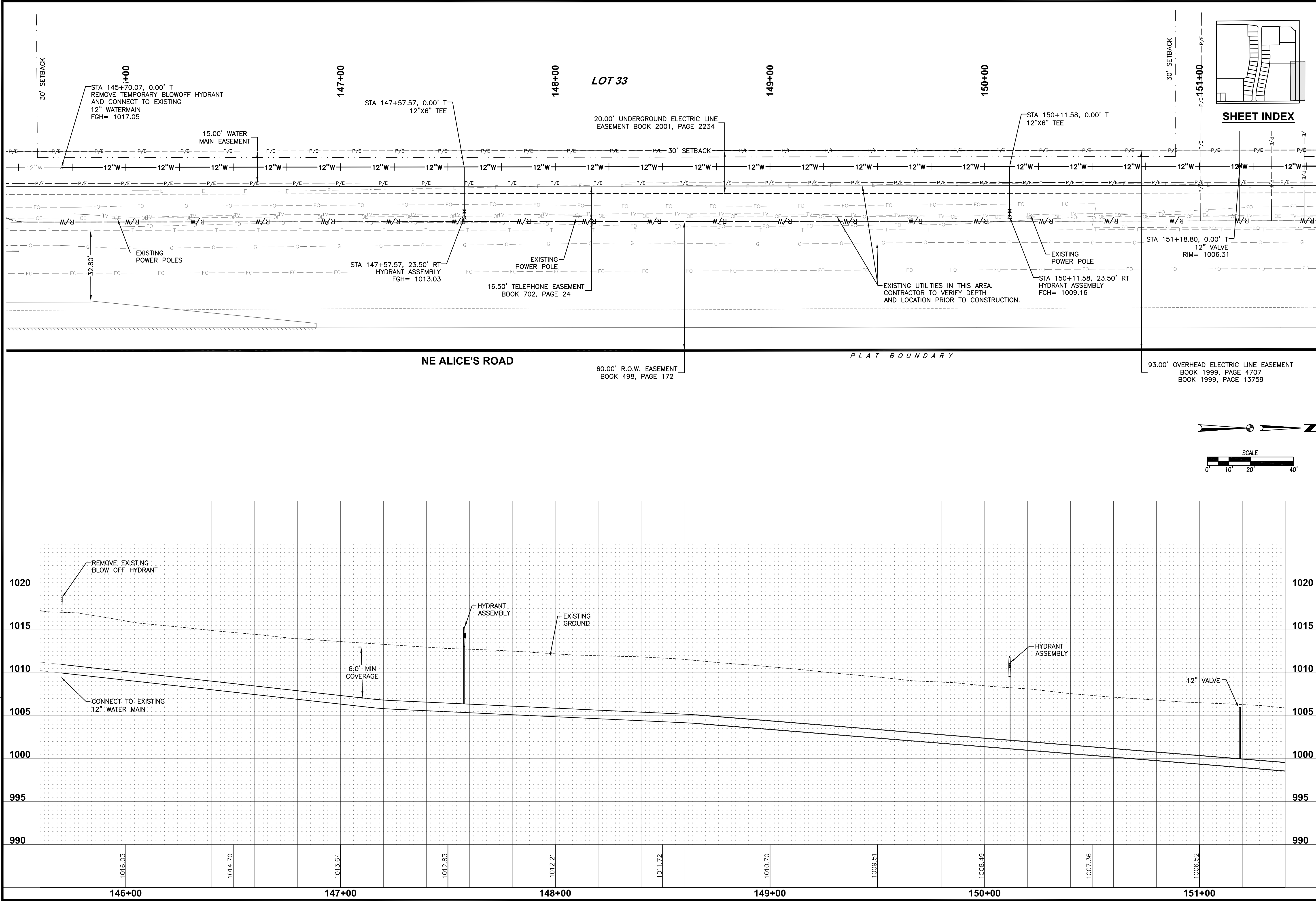
REVISIONS	DATE
AS-BUILT SUBMITTAL	12/22/16
REVISED WATERMAIN	08/01/16
FINAL SUBMITTAL	06/03/16
FOURTH SUBMITTAL	05/12/16
THIRD SUBMITTAL	04/21/16
SECOND SUBMITTAL	03/29/16
FIRST SUBMITTAL	02/22/16

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

LANDING AT SHADOW CREEK PLAT 4
WATERMAIN PLAN & PROFILE

26/32
1505.276

FILE: H:\2015\1505276-DWG\1505276-DWG WATERMAIN.DWG COMMENT: DATE: 12/21/2016 5:40 PM
PLOTTER: HP DesignJet 2400C PLOTTED BY: J. K. HEROLD



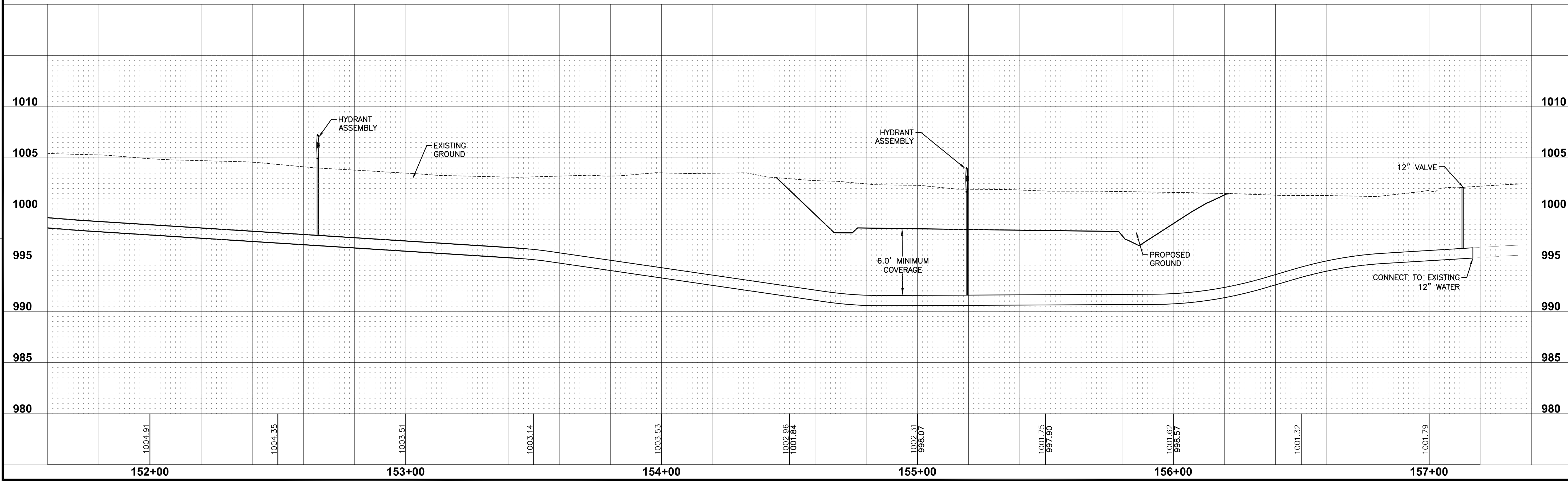
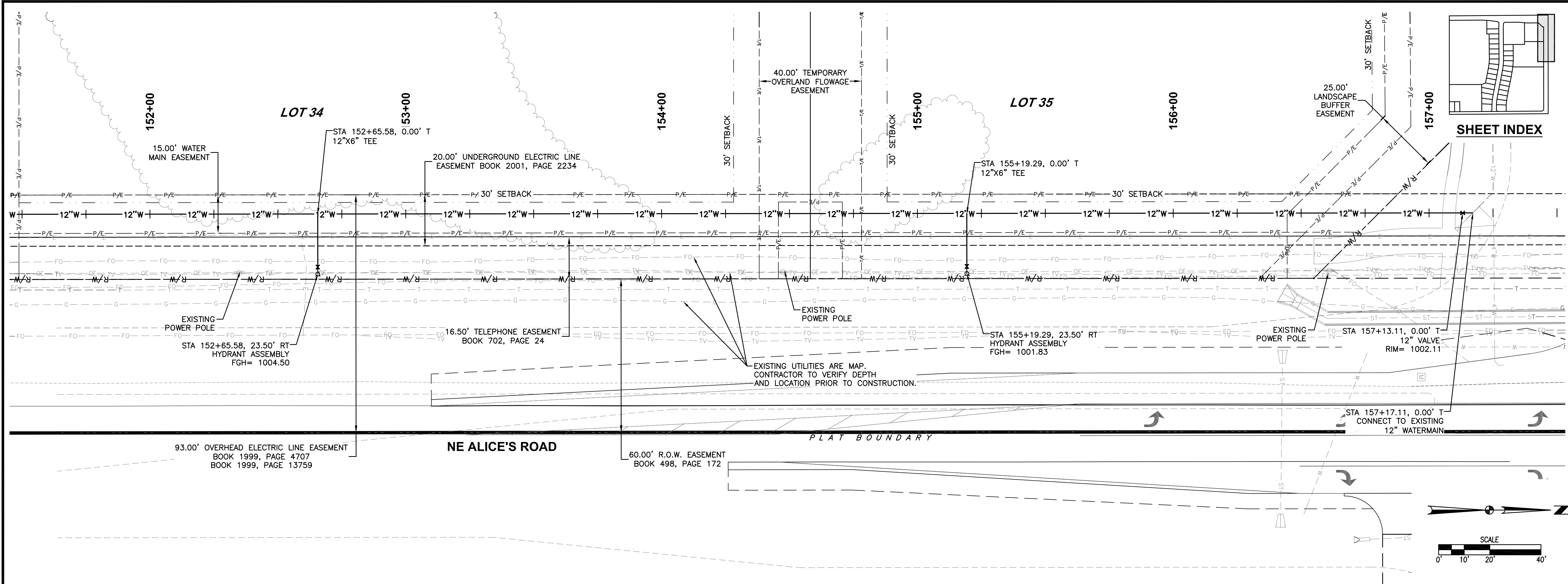
REVISIONS		DATE
AS-BUILT SUBMITTAL	12/22/16	
REVISED WATERMAIN	08/01/16	
FINAL SUBMITTAL	06/03/16	
FOURTH SUBMITTAL	05/12/16	
THIRD SUBMITTAL	04/21/16	
SECOND SUBMITTAL	03/29/16	
FIRST SUBMITTAL	02/22/16	

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

LANDING AT SHADOW CREEK PLAT 4
WATERMAIN PLAN & PROFILE

28/32
1505.276

FILE: H:\2015\1509276\DWG\1509276-PROP WATERMAIN.DWG COMMENT: DATE PLOTTED: 12/21/2016 5:40 PM PLOTTED BY: KARE HEROLD TECH



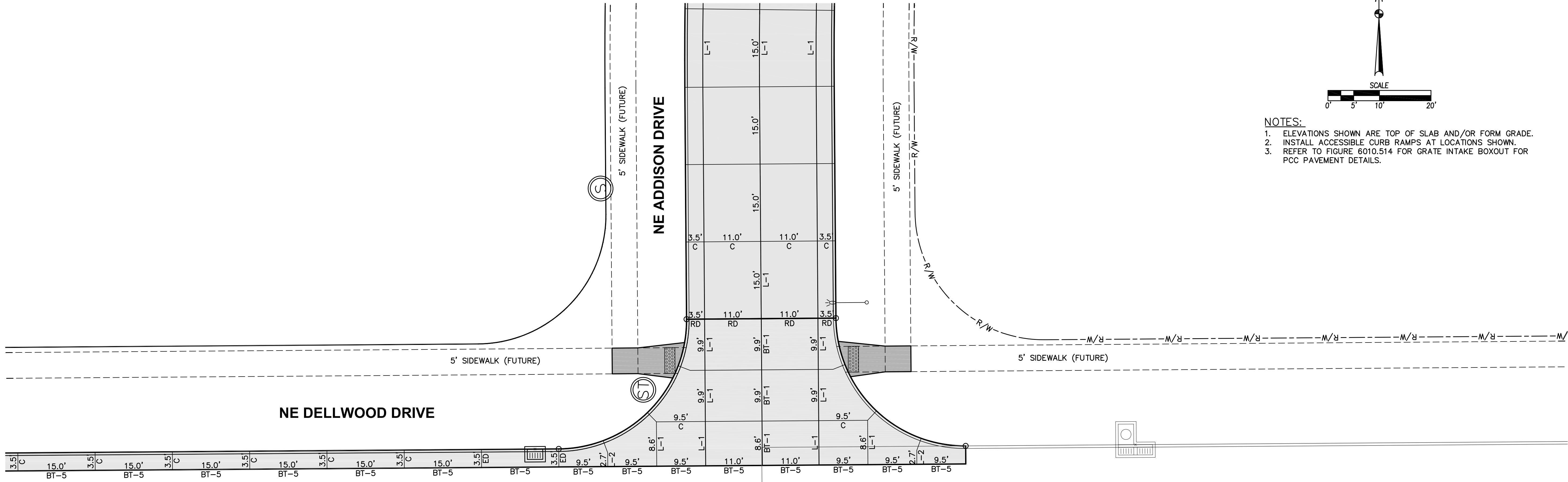
REVISIONS		DATE
AS-BUILT SUBMITTAL	12/22/16	
REVISED WATERMAIN	08/01/16	
FINAL SUBMITTAL	06/03/16	
FOURTH SUBMITTAL	05/12/16	
THIRD SUBMITTAL	04/21/16	
SECOND SUBMITTAL	03/29/16	
FIRST SUBMITTAL	02/22/16	

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

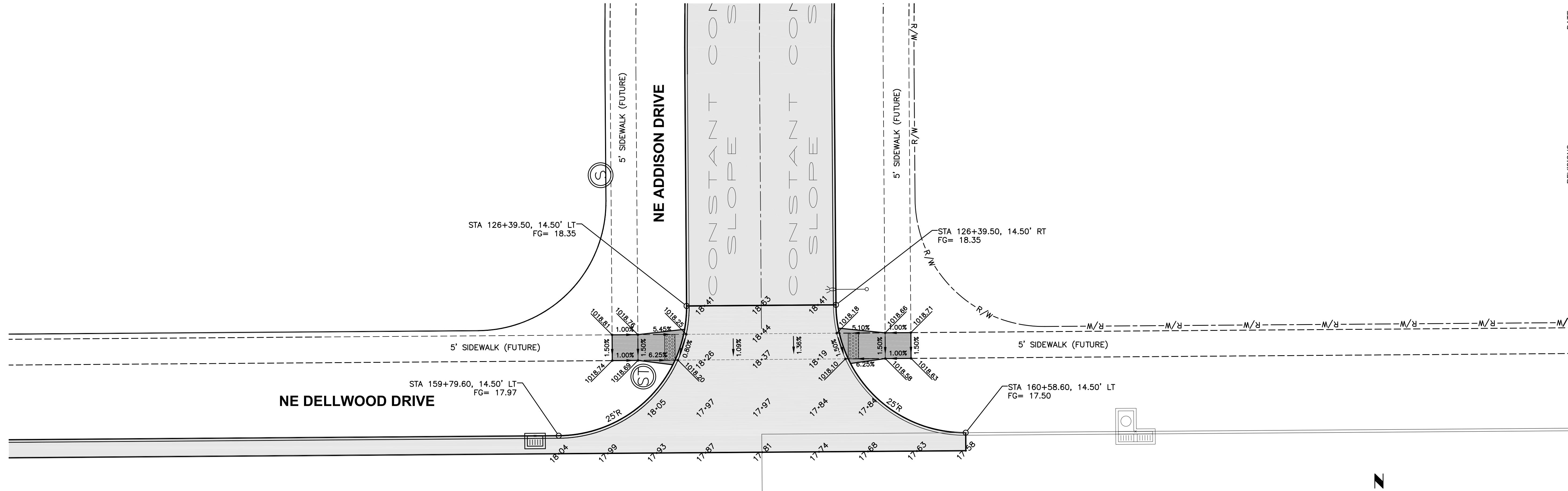
LANDING AT SHADOW CREEK PLAT 4
WATERMAIN PLAN & PROFILE

29/32
1505.276

FILE: H:\2015\1505276\1505276-INTERSECTIONS.DWG DATE PLOTTED: 12/21/2016 5:44 PM
PLOTTER: HP DesignJet T1200 COMMENT: DWG
DRAWN BY: GAE



JOINTING LAYOUT

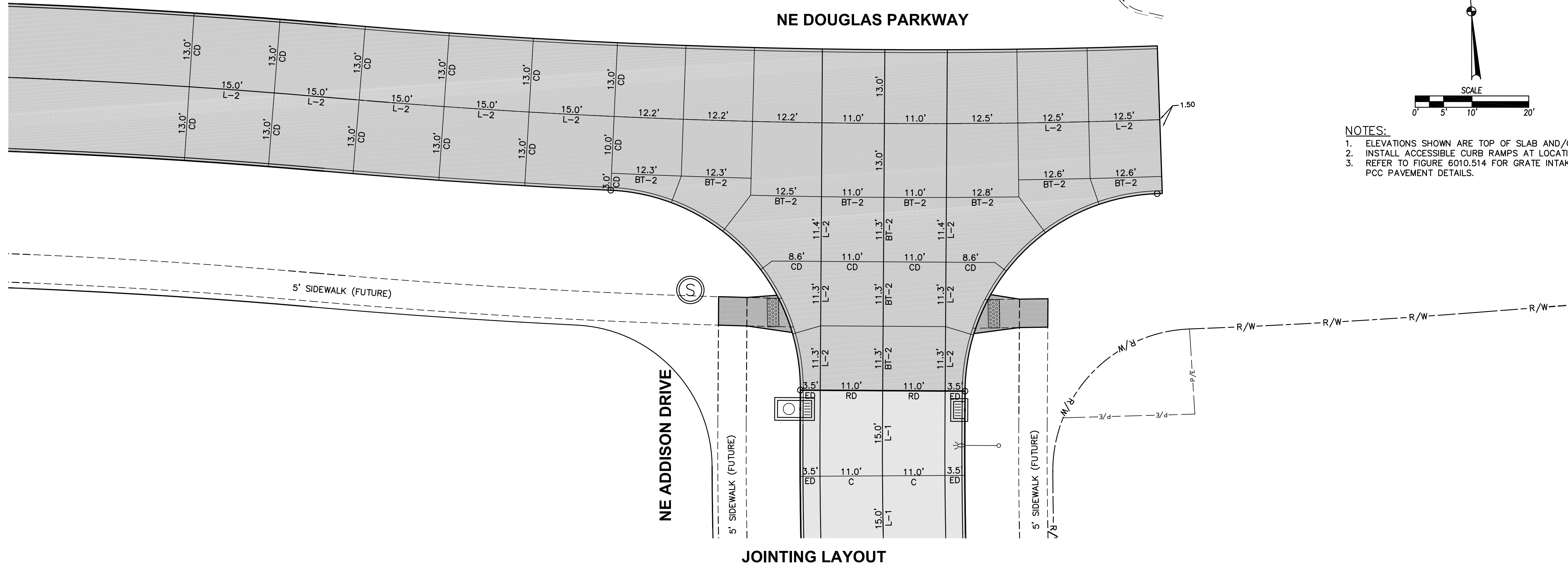


GEOMETRICS AND STAKING LAYOUT

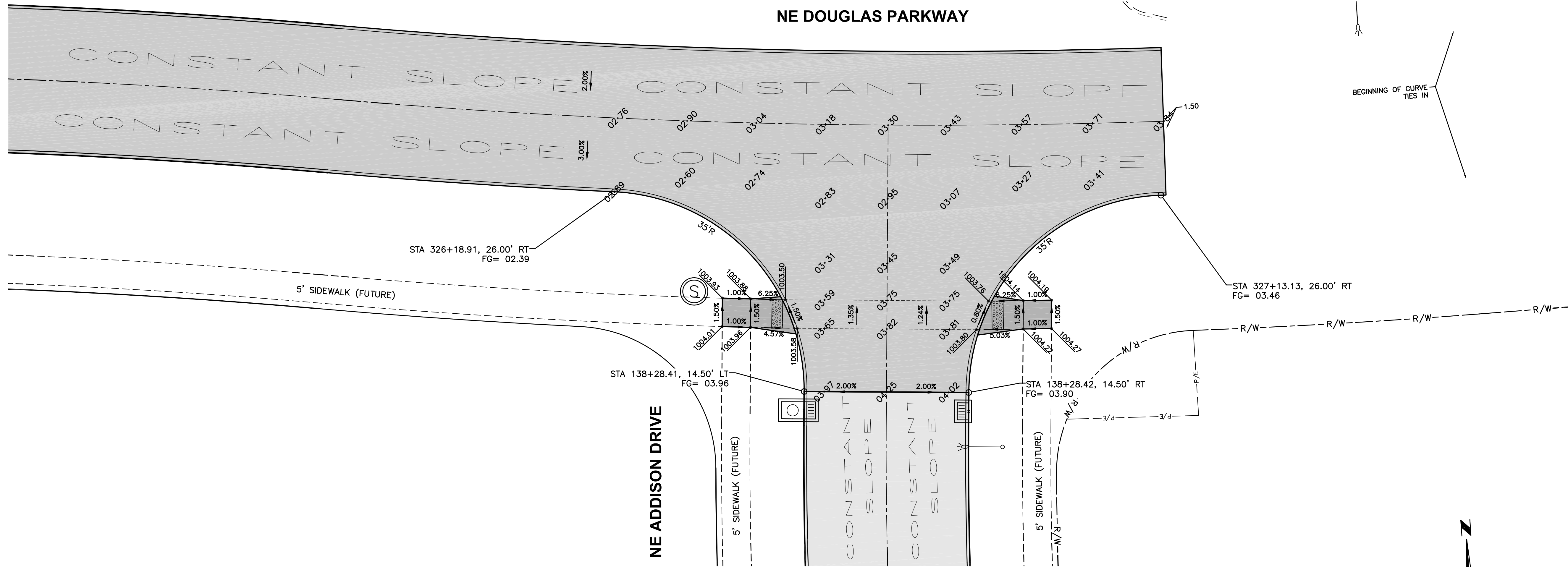
- NOTES:
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
 3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

REVISIONS	DATE
AS-BUILT SUBMITTAL	12/22/16
REVISED WATERMAIN	08/01/16
FINAL SUBMITTAL	06/03/16
FOURTH SUBMITTAL	05/12/16
THIRD SUBMITTAL	04/21/16
SECOND SUBMITTAL	03/29/16
FIRST SUBMITTAL	02/22/16

FILE: H:\2015\1505276\1505276-INTERSECTIONS.DWG DATE PLOTTED: 12/21/2016 5:43 PM COMMENT: INTERSECTION DETAIL
PLOT BY: GALE HEROLD



JOINTING LAYOUT



GEOMETRICS AND STAKING LAYOUT

- NOTES:
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 2. INSTALL ACCESSIBLE CURB RAMP AT LOCATIONS SHOWN.
 3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

31
32

1505.276

LANDING AT SHADOW CREEK PLAT 4
INTERSECTION DETAILS

Waukee, Iowa

Civil Design Advantage

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

ENGINEER: EKO
EI: GH

REVISIONS

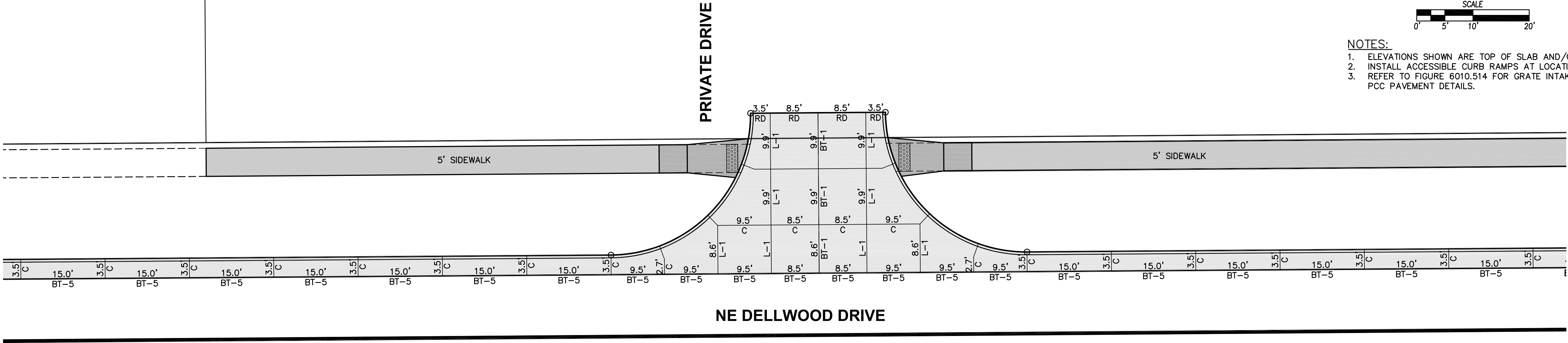
AS-BUILT SUBMITTAL	12/22/16
REVISED WATERMAN	08/01/16
FINAL SUBMITTAL	06/03/16
FOURTH SUBMITTAL	05/12/16
THIRD SUBMITTAL	04/21/16
SECOND SUBMITTAL	03/29/16
FIRST SUBMITTAL	02/22/16

DATE

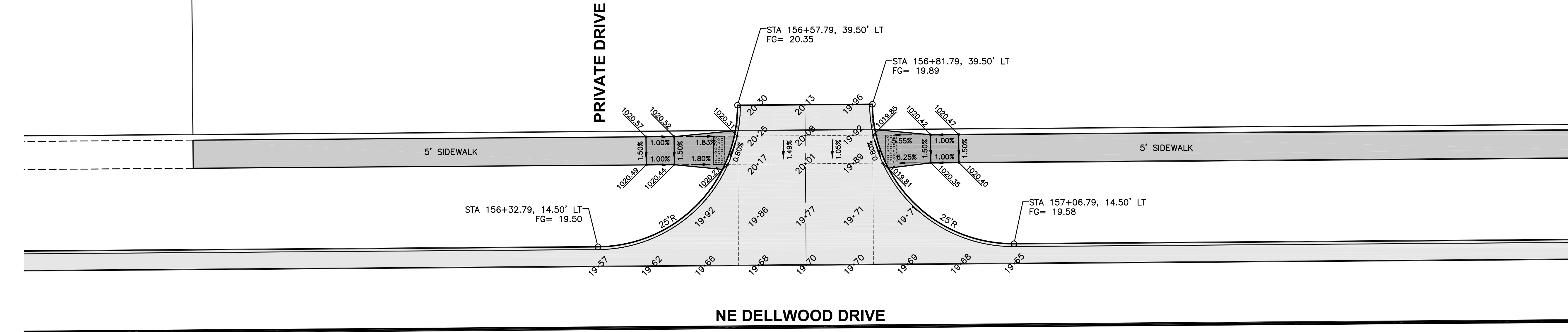
12/22/16
08/01/16
06/03/16
05/12/16
04/21/16
03/29/16
02/22/16

FILE: H:\2015\1505276\1505276-INTERSECTIONS.DWG
DATE PLOTTED: 12/21/2016 5:43 PM
PLOTTER: HP DesignJet 5000
DRAWN BY: GALE HEROLD

COMMENTS:
NONE

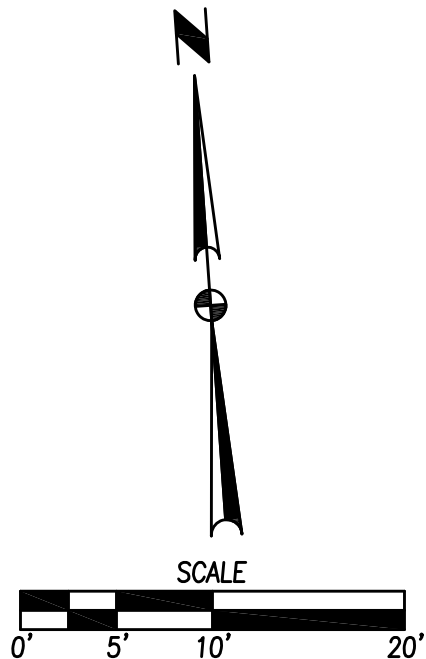


JOINTING LAYOUT



GEOMETRICS AND STAKING LAYOUT

- NOTES:
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 2. INSTALL ACCESSIBLE CURB RAMP AT LOCATIONS SHOWN.
 3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.



32/32

1505.276

LANDING AT SHADOW CREEK PLAT 4
INTERSECTION DETAILS

Waukee, Iowa

Civil Design Advantage

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

REVISIONS

DATE

12/22/16

AS-BUILT SUBMITTAL

09/01/16

REVISED WATERMAIN

06/03/16

FINAL SUBMITTAL

05/12/16

FOURTH SUBMITTAL

04/21/16

THIRD SUBMITTAL

03/29/16

SECOND SUBMITTAL

02/22/16

FIRST SUBMITTAL