

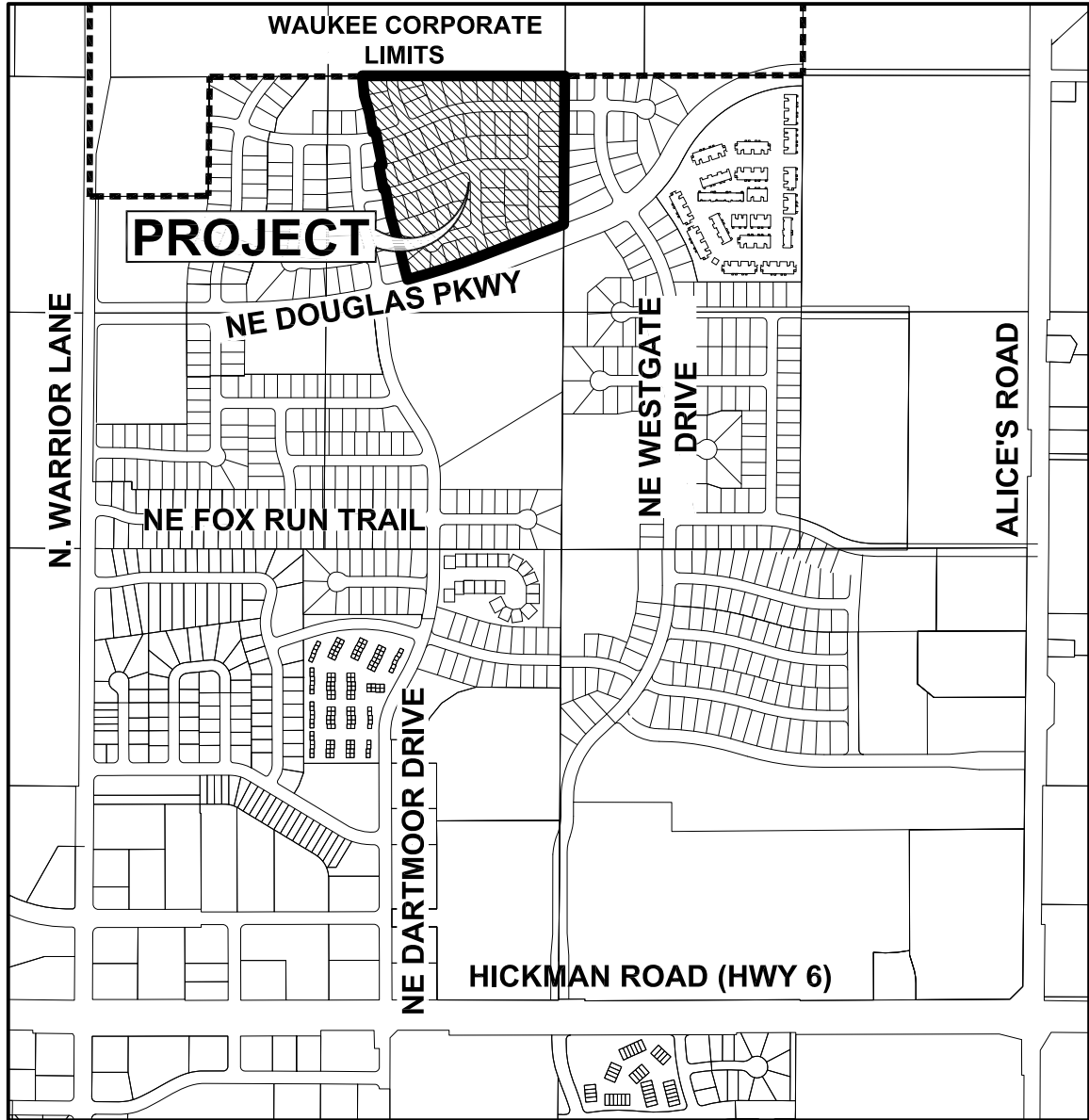
CONSTRUCTION PLANS FOR:

FOX CREEK ESTATES PLAT 7

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

OWNER/DEVELOPER

FOX CREEK WAUKEE, LLC
CONTACT: BILL ELSON
3705 GRAND AVENUE
DES MOINES, IA 50309
PH. (515) 255-3306

PROJECT MANAGER

LANDMARK DEVELOPMENT SERVICES, INC.
CONTACT: BILL SPENCER
3405 SE CROSSROADS DRIVE, SUITE E
GRIMES, IOWA 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

ZONING

R-2 ONE AND TWO FAMILY RESIDENTIAL DISTRICT

BULK REGULATIONS

- MIN. LOT AREA = 8,000 SF (SINGLE-FAMILY)
- 30' FRONT YARD SETBACK:
- 30' REAR SIDE YARD SETBACK:
- 15' SIDE YARD SETBACK
(TOTAL=15', MIN. SIDE=7')

SUBMITTAL DATES

FIRST SUBMITTAL:	07/13/2015
SECOND SUBMITTAL:	08/07/2015
THIRD SUBMITTAL:	09/16/2015
FOURTH SUBMITTAL:	09/28/2015
FIFTH SUBMITTAL:	10/21/2015
FINAL SUBMITTAL:	03/07/2016
AS-BUILT SUBMITTAL:	01/05/2017

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

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.

UTILITY NOTE

THE 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. A REQUEST WAS MADE TO IOWA ONE CALL FOR THE UTILITIES TO LOCATE THEIR UTILITIES IN THE FIELD.

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2-3	TYPICAL SECTIONS AND DETAILS
4	QUANTITIES AND REFERENCE NOTES
5	HYDRANT COVERAGE PLAN
6	GRADING PLAN
7-8	EROSION & SEDIMENT CONTROL PLAN
9-19	STORM AND SANITARY SEWER PLAN AND PROFILE
20-28	WATERMAIN PLAN AND PROFILE
29-31	INTERSECTION DETAILS

LEGAL DESCRIPTION

A PART OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 79 NORTH, RANGE 26 WEST OF THE FIFTH PRINCIPAL MERIDIAN IN THE CITY OF WAUKEE, DALLAS COUNTY, IOWA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF LOT 1, FOX CREEK ESTATES PLAT 6, AN OFFICIAL PLAT IN THE CITY OF WAUKEE; THENCE NORTH 15°04'55" WEST ALONG THE EASTERLY LINE OF SAID FOX CREEK ESTATES PLAT 6, A DISTANCE OF 98.65 FEET; THENCE NORTH 13°28'48" WEST CONTINUING ALONG SAID EASTERLY LINE, 93.02 FEET; THENCE NORTH 16°37'33" WEST CONTINUING ALONG SAID EASTERLY LINE, 86.67 FEET; THENCE NORTH 16°43'56" WEST CONTINUING ALONG SAID EASTERLY LINE, 85.00 FEET; THENCE NORTH 11°12'51" WEST CONTINUING ALONG SAID EASTERLY LINE, 98.47 FEET; THENCE NORTH 11°27'30" WEST CONTINUING ALONG SAID EASTERLY LINE, 60.00 FEET; THENCE WESTERLY CONTINUING ALONG SAID EASTERLY LINE AND A CURVE CONCAVE NORTHERLY WHOSE RADIUS IS 1090.00 FEET, WHOSE ARC LENGTH IS 11.16 FEET AND WHOSE CHORD BEARS SOUTH 78°50'05" WEST, 11.16 FEET; THENCE NORTH 10°52'19" WEST CONTINUING ALONG SAID EASTERLY LINE, 131.00 FEET; THENCE NORTH 81°35'59" EAST CONTINUING ALONG SAID EASTERLY LINE, 18.86 FEET; THENCE NORTH 11°59'47" WEST CONTINUING ALONG SAID EASTERLY LINE, 190.00 FEET; THENCE WESTERLY CONTINUING ALONG SAID EASTERLY LINE AND A CURVE CONCAVE NORTHERLY WHOSE RADIUS IS 770.00 FEET, WHOSE ARC LENGTH IS 15.10 FEET AND WHOSE CHORD BEARS SOUTH 78°33'56" WEST, 15.10 FEET; THENCE NORTH 10°52'21" WEST CONTINUING ALONG SAID EASTERLY LINE, 108.76 FEET; THENCE NORTH 16°37'58" WEST CONTINUING ALONG SAID EASTERLY LINE, 100.69 FEET; THENCE NORTH 06°12'43" WEST CONTINUING ALONG SAID EASTERLY LINE, 109.59 FEET TO THE NORTHEAST CORNER OF SAID FOX CREEK ESTATES PLAT 6; THENCE NORTH 89°32'02" EAST ALONG THE NORTH LINE OF SAID NORTHWEST QUARTER, 1125.30 FEET TO THE NORTH QUARTER CORNER OF SAID SECTION 27; THENCE SOUTH 00°03'22" EAST ALONG THE EAST LINE OF SAID NORTHWEST QUARTER, 825.78 FEET TO THE SOUTHWEST CORNER OF LOT 33, THE LANDING AT SHADOW CREEK PLAT 2, AN OFFICIAL PLAT IN THE CITY OF WAUKEE; THENCE SOUTH 68°38'34" WEST ALONG THE NORTHERLY RIGHT-OF-WAY LINE OF NORTHEAST DOUGLAS PARKWAY, 489.84 FEET; THENCE WESTERLY CONTINUING ALONG SAID NORTHERLY RIGHT-OF-WAY LINE AND A CURVE CONCAVE NORTHERLY WHOSE RADIUS IS 3940.00 FEET, WHOSE ARC LENGTH IS 431.53 FEET AND WHOSE CHORD BEARS SOUTH 71°46'49" WEST, 431.31 TO THE POINT OF BEGINNING AND CONTAINING 23.21 ACRES (10,100,965 SQUARE FEET).

PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.

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.



3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111

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

PROJECT NO. 1504.229

GENERAL LEGEND

PROPOSED

SECTION LINE

CENTER LINE

RIGHT OF WAY

PERMANENT EASEMENT

TEMPORARY EASEMENT

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

MINIMUM PROTECTION ELEVATION

TOP OF PROPOSED GROUND

MINIMUM OPENING ELEVATION

MINIMUM GRADE AT STRUCTURE

---R/W---R/W---

---P/A---P/A---

---X---X---

ST-10

L-10

S-10

P-10

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

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 1-31

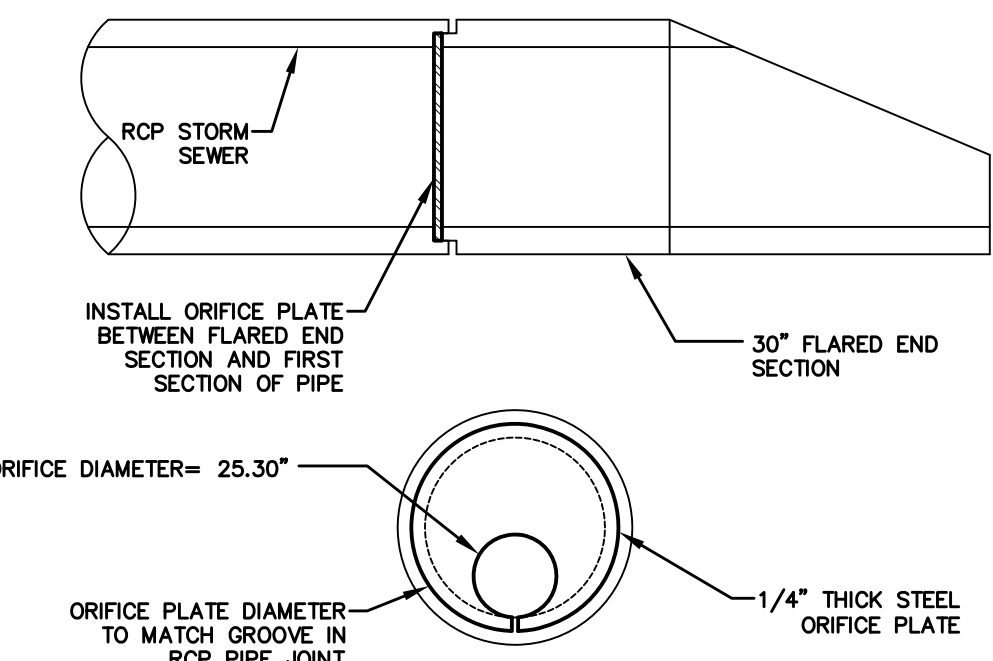


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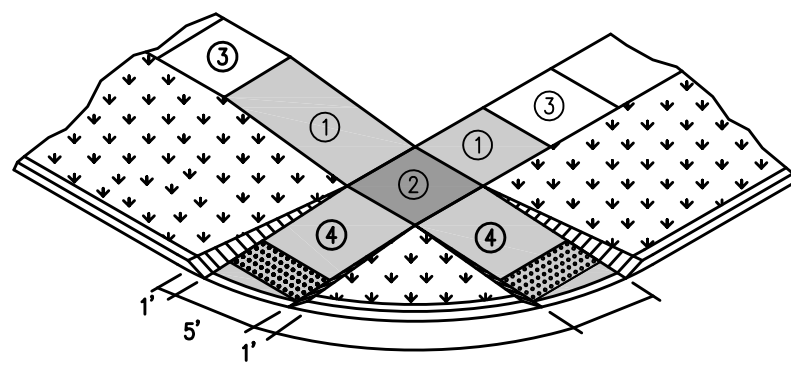
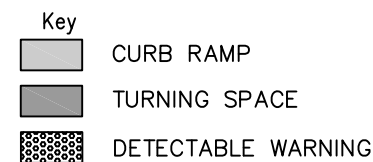
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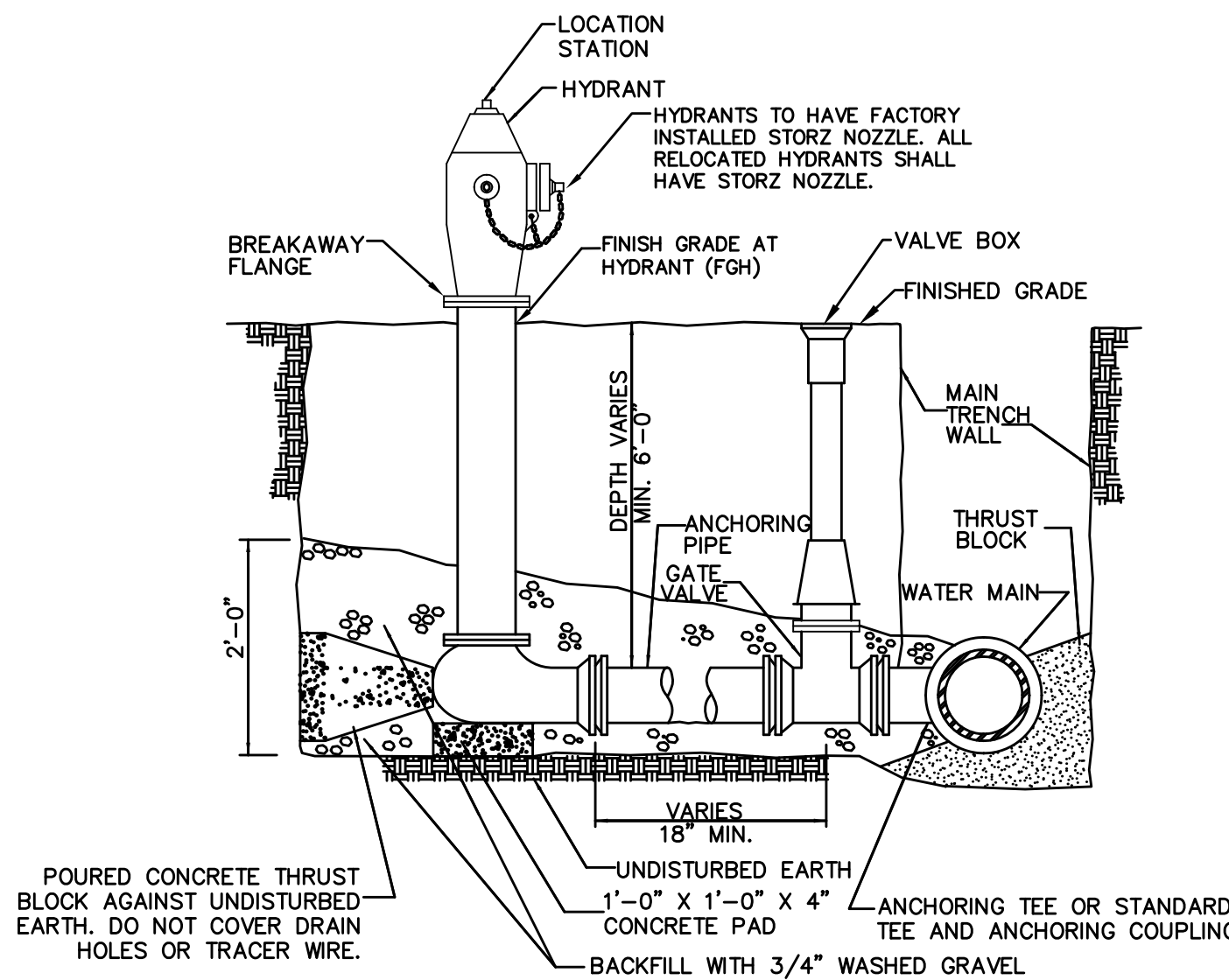


ORIFICE PLATE DETAIL FOR ST-4
NOT TO SCALE



- 1 Parallel Curb Ramp: Target cross slope of 1.5% with a maximum cross slope of 2.0%. The length of the parallel ramp is not to exceed 15 feet, regardless of resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.
 - 2 Turning Space: Target slope of 1.5% with a maximum slope perpendicular to the travel directions of 2.0%. At mid-block crossings, cross slope of landing may exceed 2.0% to match the roadway grade. Minimum 5 feet by 5 feet.
 - 3 Target cross-slope of 1.5% with a maximum cross-slope of 2.0%.
 - 4 Perpendicular curb ramp: Target running slope of 6.25% with maximum running slope of 8.3%.
- The minimum pavement depth for ramps and landings shall be 6-inches.

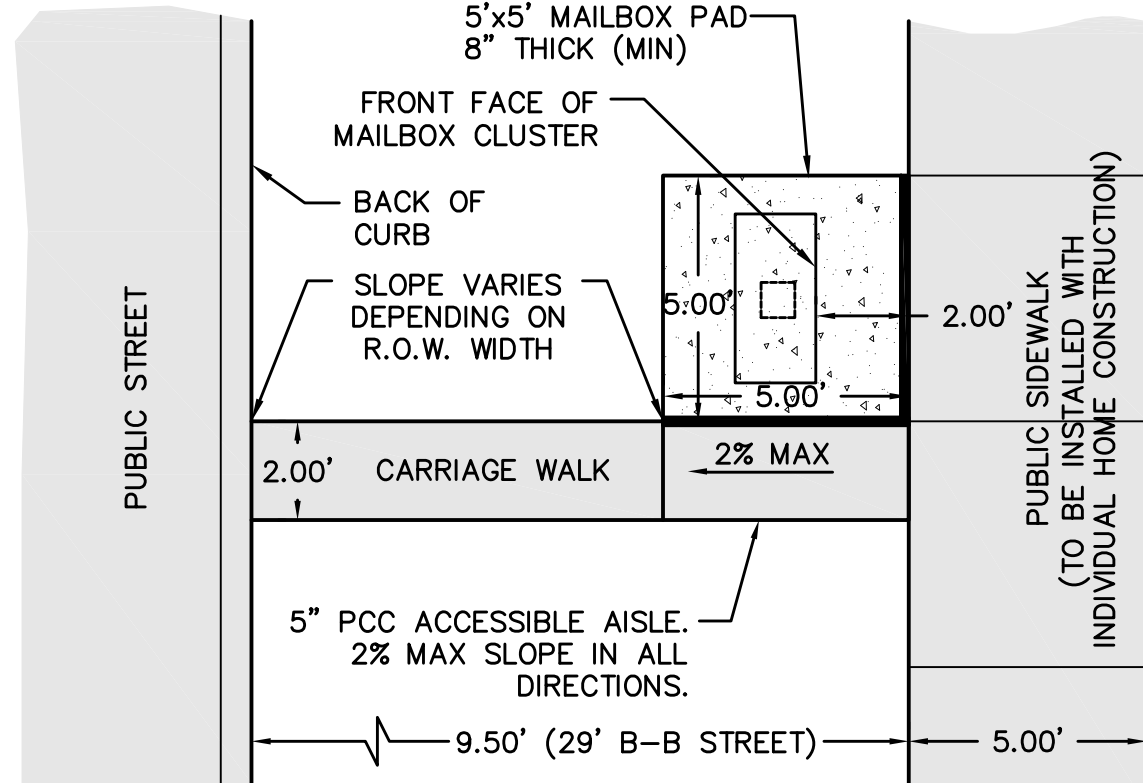
CURB RAMPS OUTSIDE OF INTERSECTION RADIUS
NOT TO SCALE



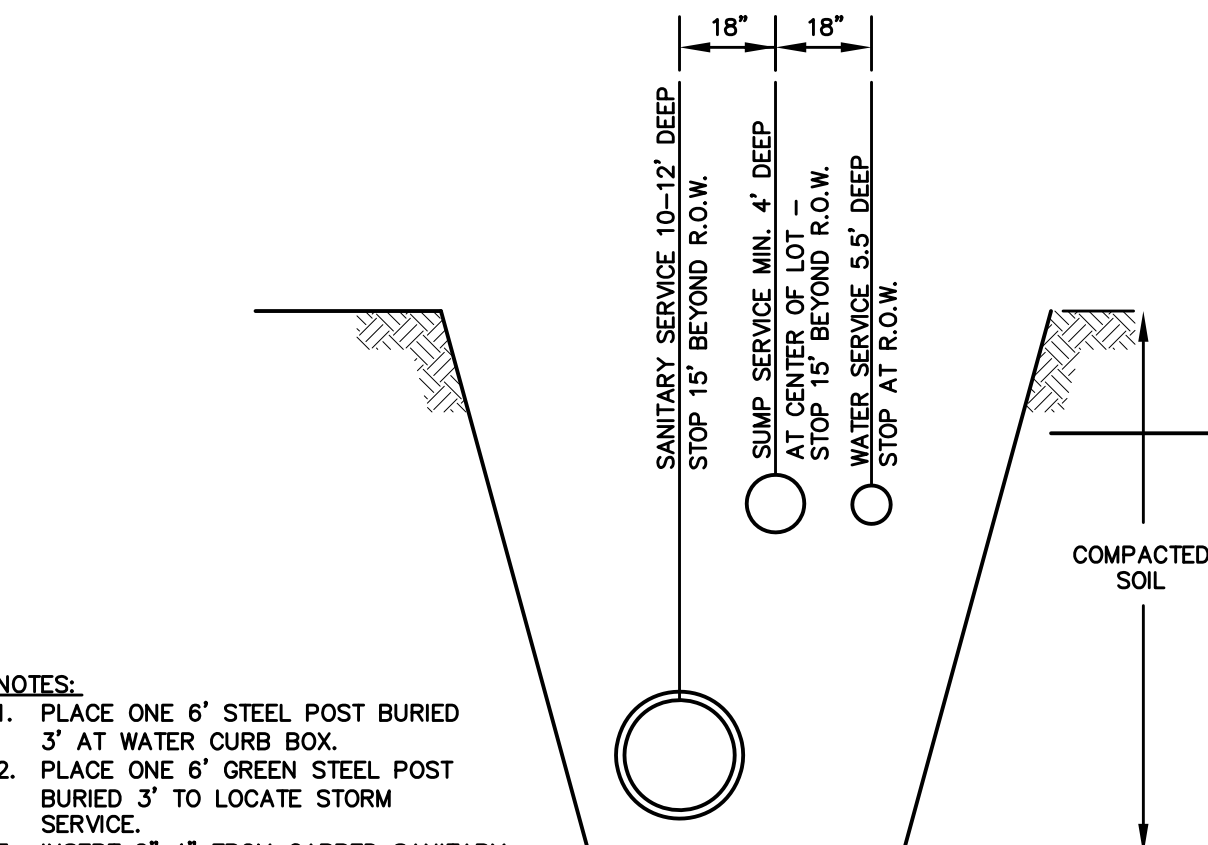
- NOTES
1. MINIMUM SIZE FOR PIPING, VALVES AND FITTINGS FROM WATER MAIN TO HYDRANT INLET: 6".
 2. PROVIDE TRACER WIRE AND TRACER WIRE STATION.
 3. WRAP HYDRANT, PIPE AND FITTINGS WITH POLYETHYLENE ENCASEMENT.

HYDRANT ASSEMBLY DETAIL
NOT TO SCALE

- INSTALLATION NOTE:**
1. MAILBOX PADS TO BE INSTALLED BY DEVELOPER.
 2. CLUSTER MAILBOX TO BE LOCATED ON THE PARKING/STREET LIGHT SIDE OF STREET.
 3. DO NOT LOCATE AT INTERSECTION.
 4. LOCATE NEAR SHARED PROPERTY LINE PER APPROVED PLAN.
 5. DETERMINE SIDEWALK SIDE OF MAILBOX PAD ELEVATION ASSUMING CONSTANT 4% SLOPE FROM BACK OF CURB TO SIDEWALK SIDE OF MAILBOX PAD. RESULTING SLOPE FROM BACK OF CURB TO STREET SIDE OF MAILBOX PAD WILL BE GREATER THAN 4%. FOR EXAMPLE, FOR A 29' WIDE PAVEMENT WITH A 60' WIDE R.O.W. AND A 2% MAILBOX PAD CROSS SLOPE, THE RESULTING SLOPE FROM THE BACK OF CURB TO THE STREET SIDE OF MAILBOX PAD IS 6.2%.

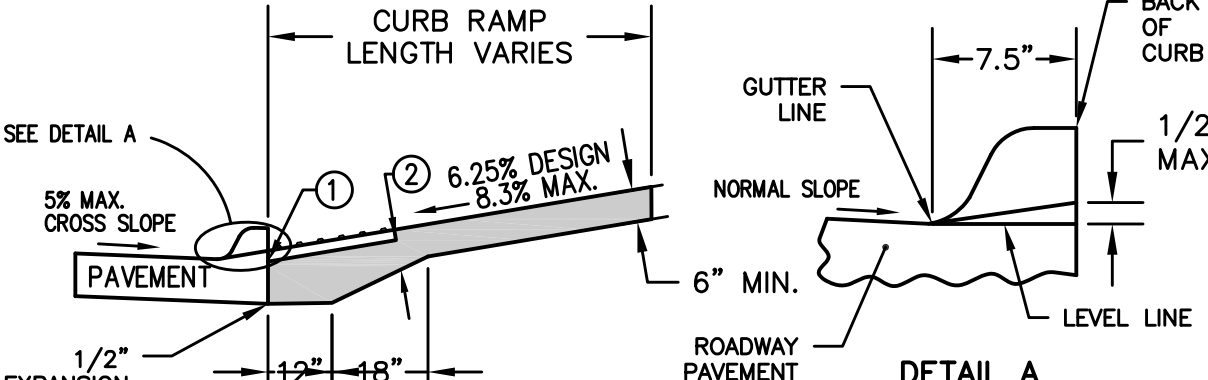


MAILBOX PAD DETAIL
NOT TO SCALE

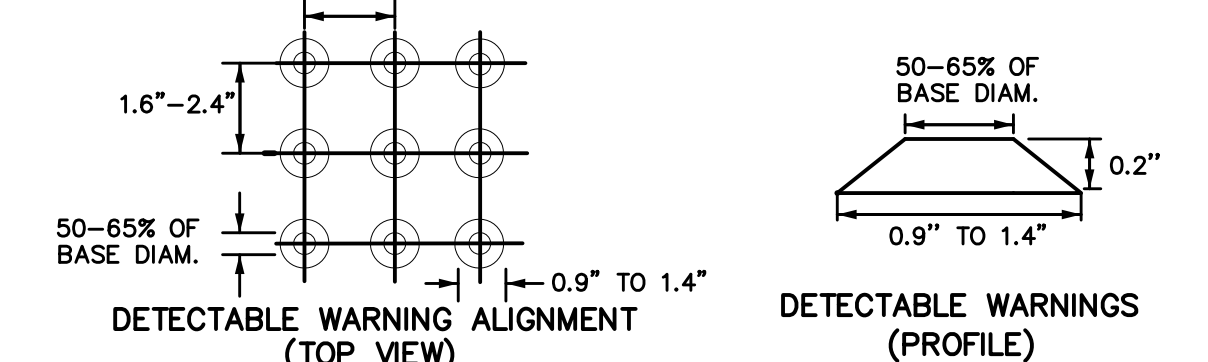


- NOTES:
1. PLACE ONE 6' STEEL POST BURIED 3' AT WATER CURB BOX.
 2. PLACE ONE 6' GREEN STEEL POST BURIED 3' TO LOCATE STORM SERVICE.
 3. INSERT 2"x4" FROM CAPPED SANITARY SERVICE TO 2 FOOT ABOVE GRADE.

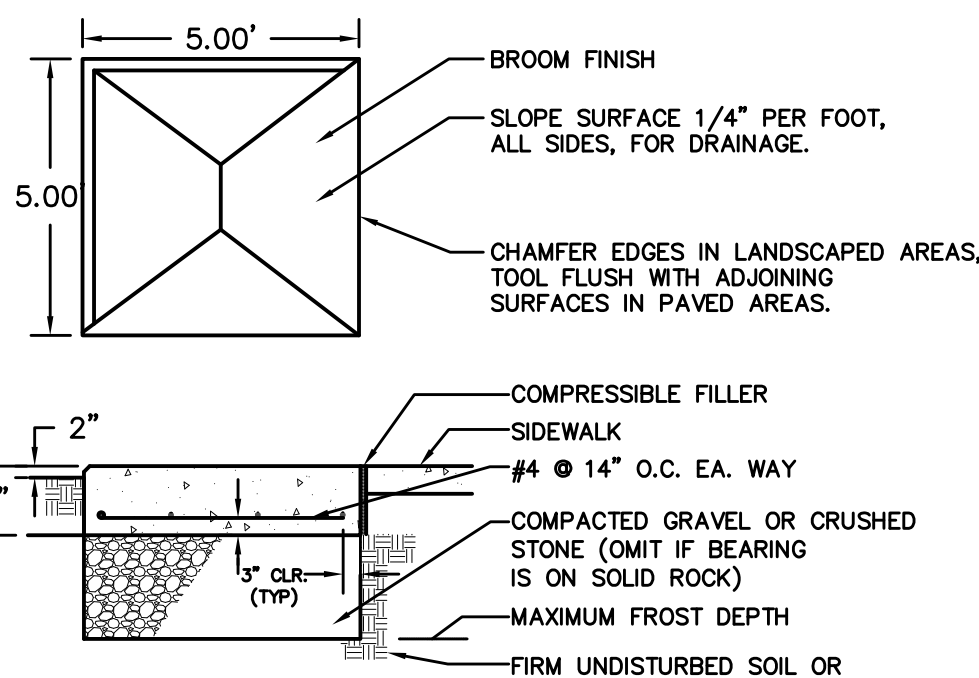
SERVICE LOCATION DETAIL
NOT TO SCALE



1. INSTALL A 24 INCH WIDE (MIN.) STRIP OF DETECTABLE WARNINGS AT THE BACK OF CURB. EXTEND THE DETECTABLE WARNINGS ACROSS THE FULL WIDTH OF THE RAMP.
2. PROVIDE A MINIMUM OF 6 INCHES OF CONCRETE BELOW THE DETECTABLE WARNING PANEL.

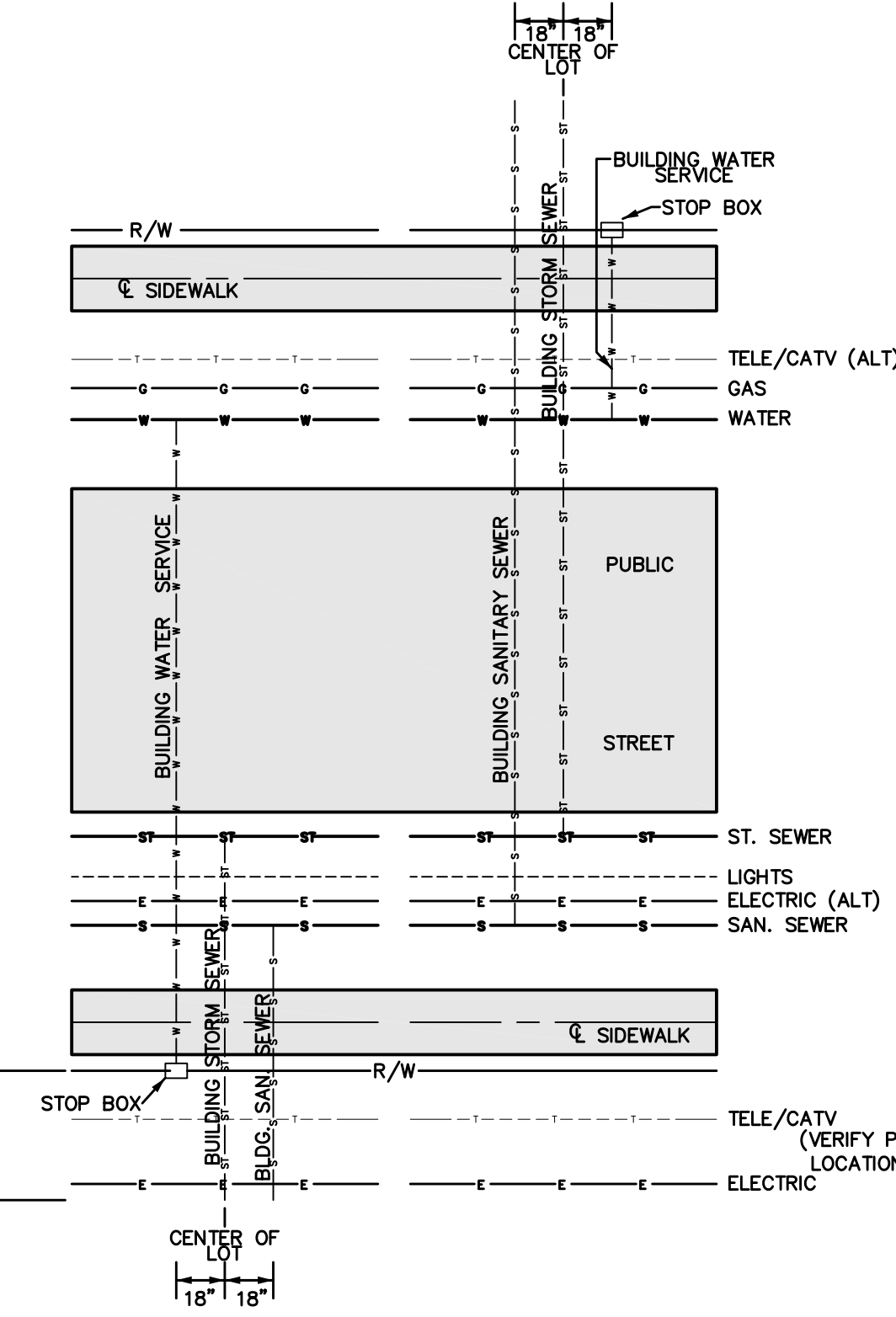


DETECTABLE WARNING DETAIL
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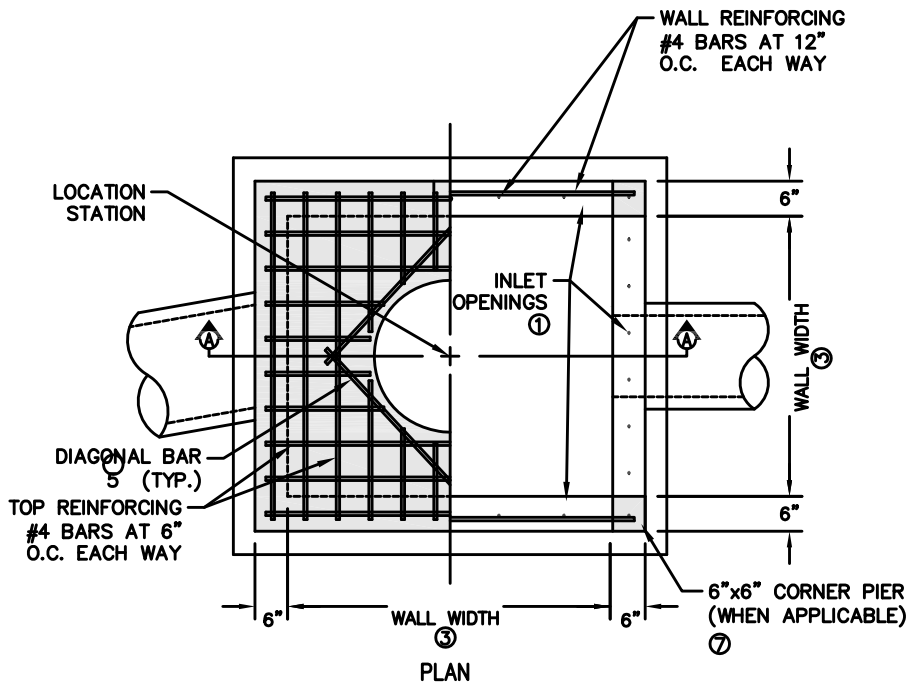


- GENERAL NOTES**
1. CONCRETE: C4 MIX.
 2. REINFORCING STEEL: ASTM A615, GRADE 60.
 3. THIS BASE DETAIL CAN BE USED FOR NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS (NDCBU) CLUSTER BOXES AND PARCEL LOCKERS WITH 4"x10" BOLT PATTERN.
 4. REQUIRED EXPANSION BOLT CAPACITY, BASED ON CALCULATED DESIGN LOAD= 3100 LBS TENSION, 2000 LBS SHEAR.
 5. MAILBOX PADS TO BE INSTALLED BY DEVELOPER.

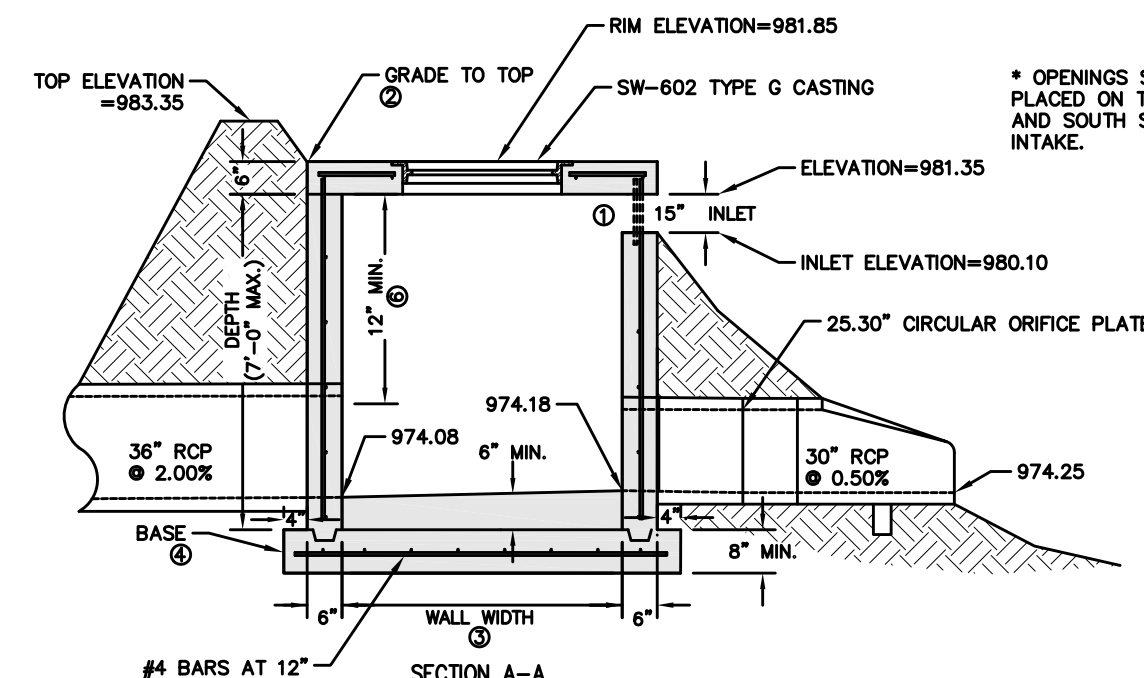
MAILBOX PAD DETAIL
NOT TO SCALE



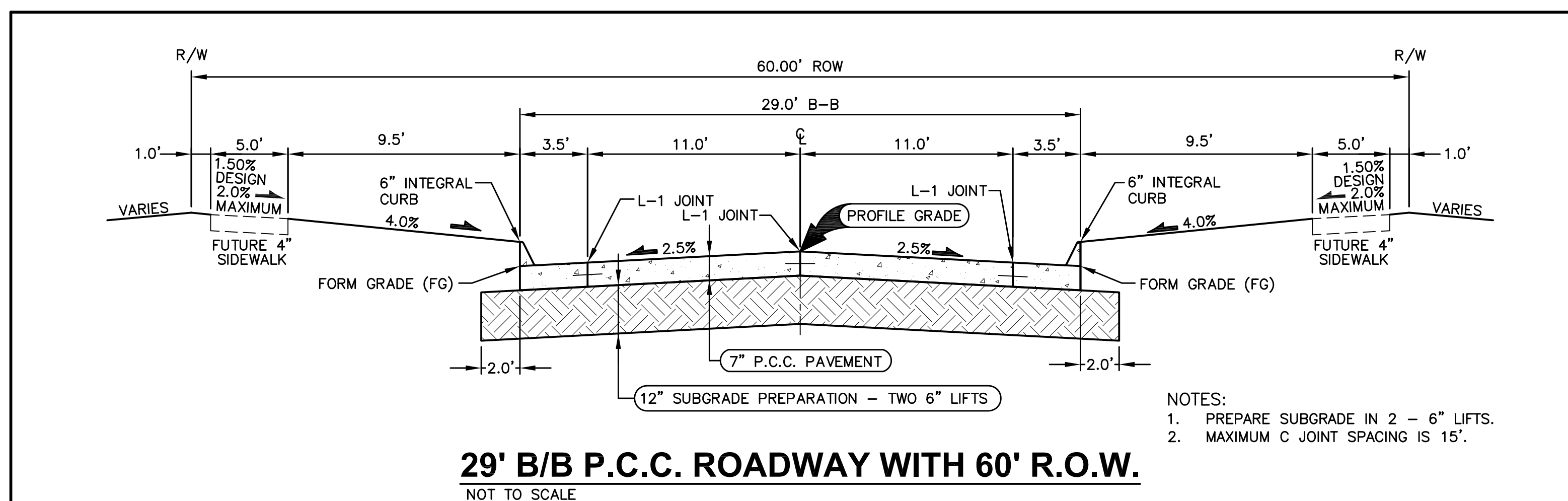
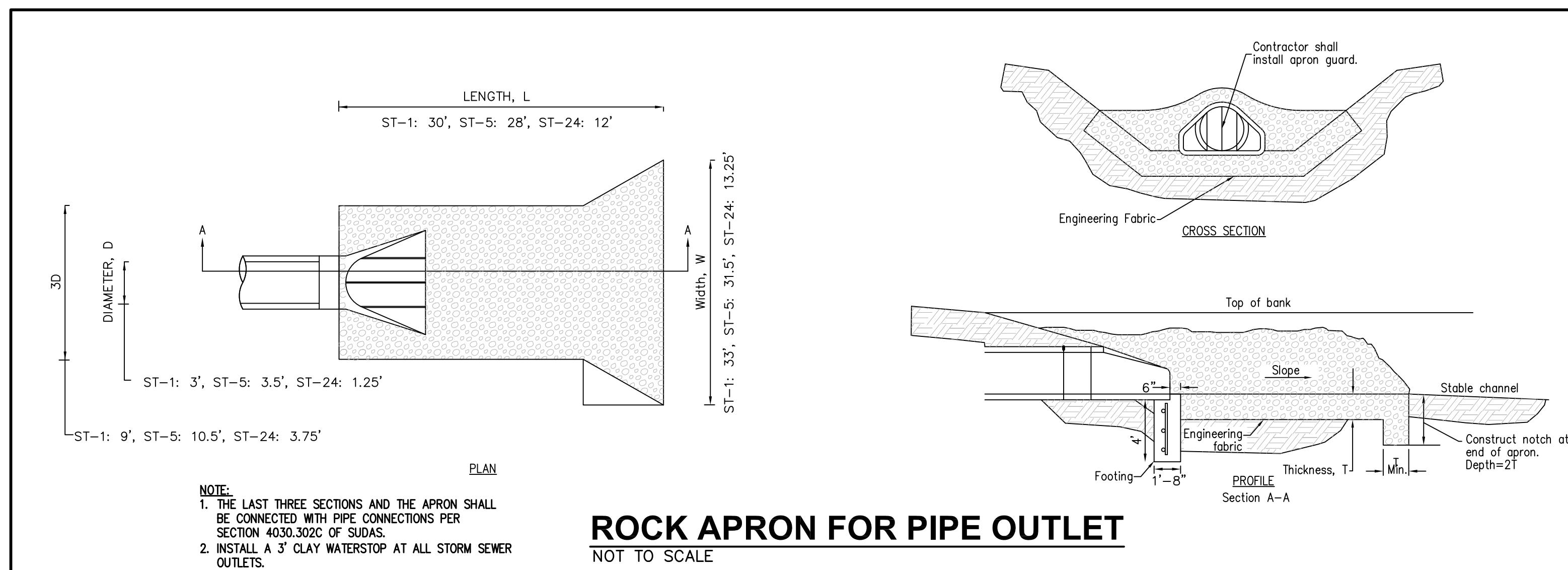
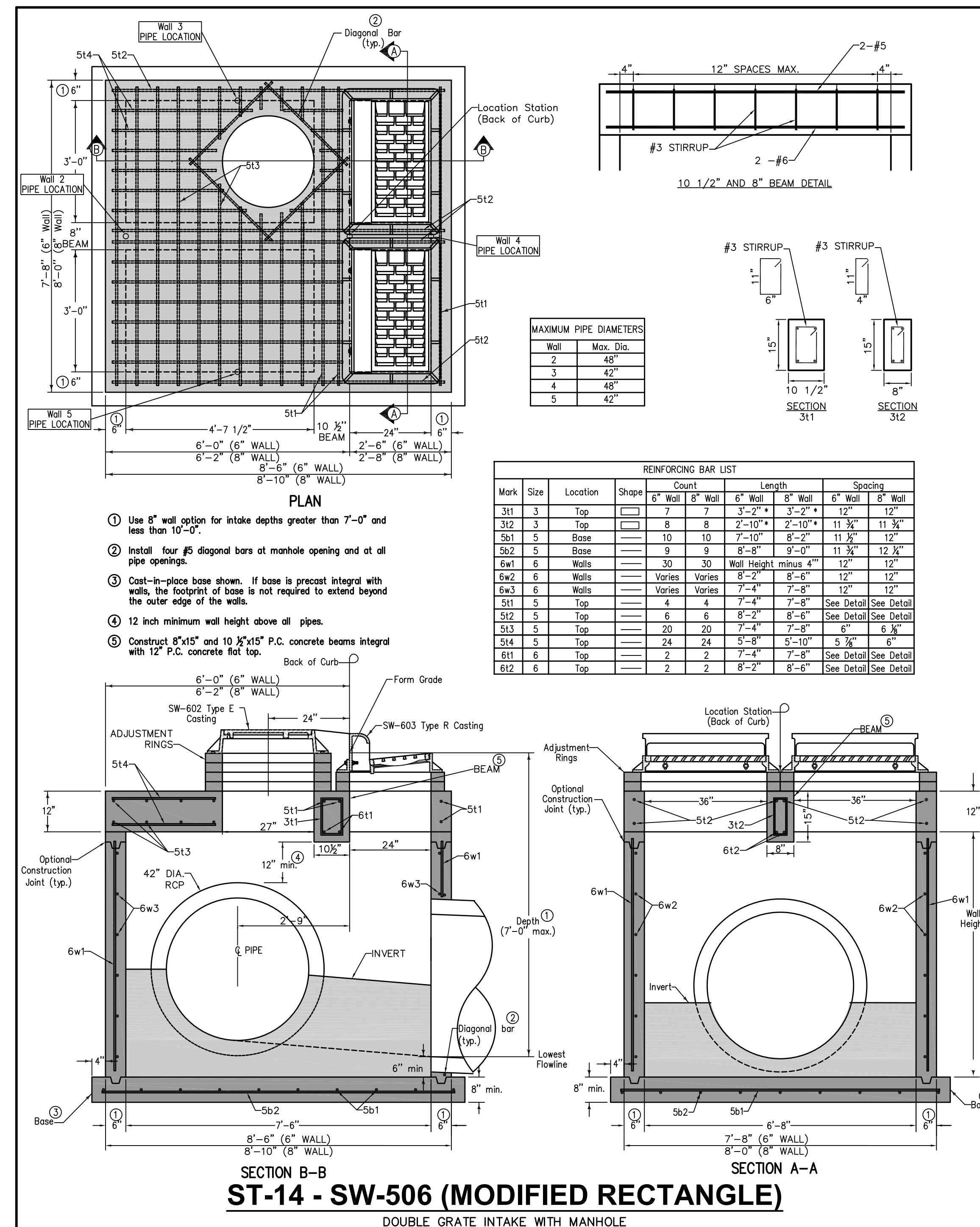
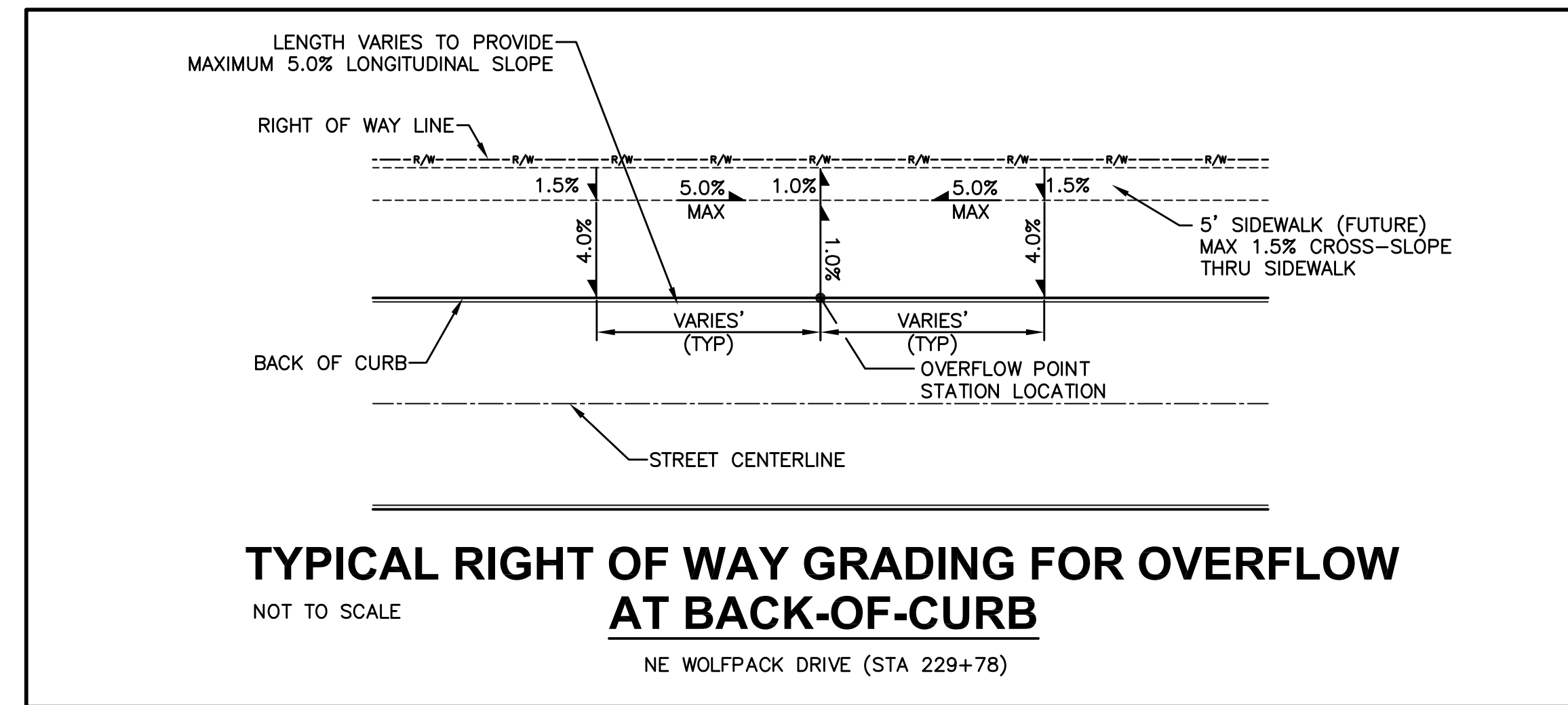
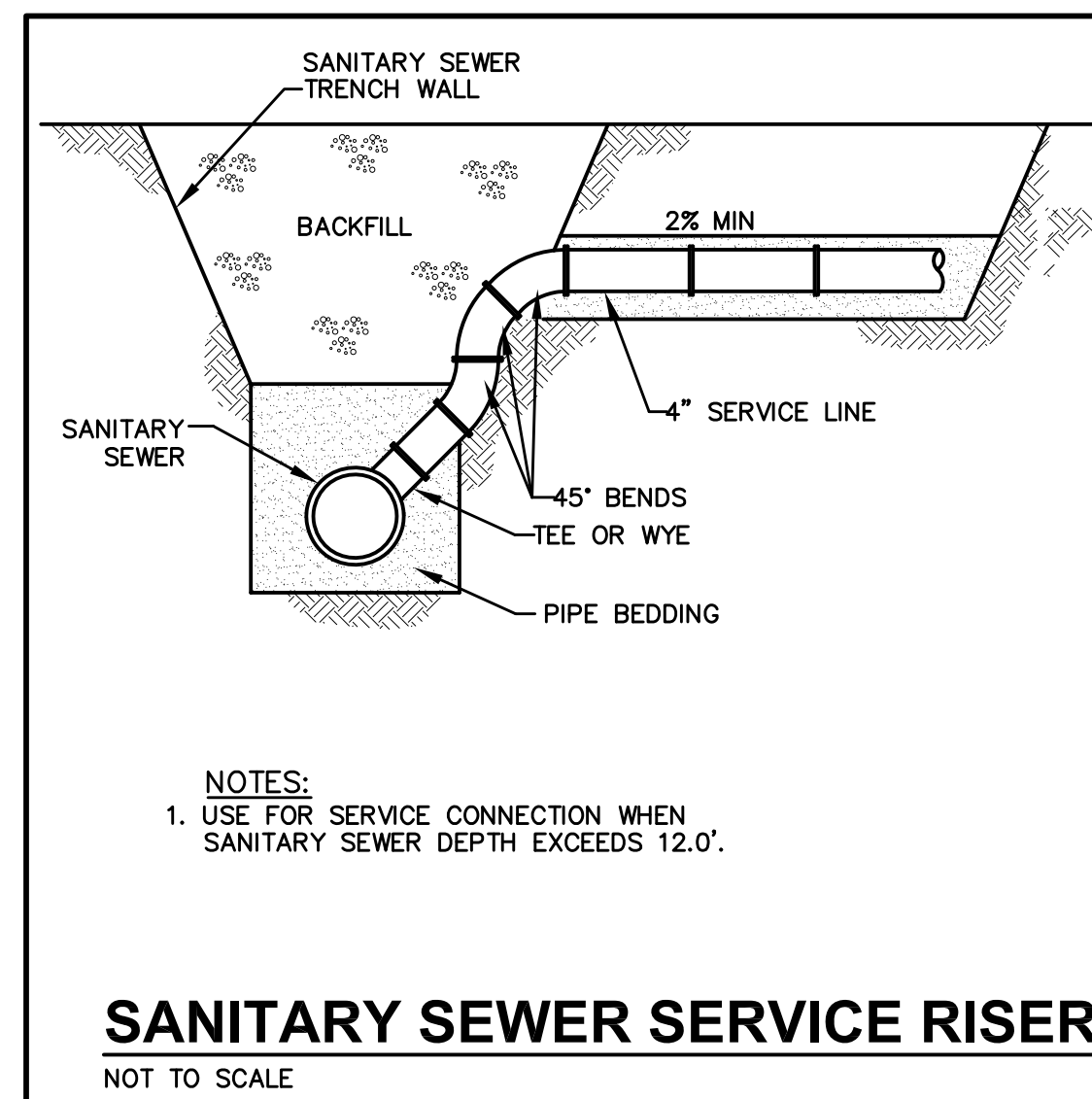
CITY OF WAUKEE UTILITY SERVICE LOCATIONS
NOT TO SCALE

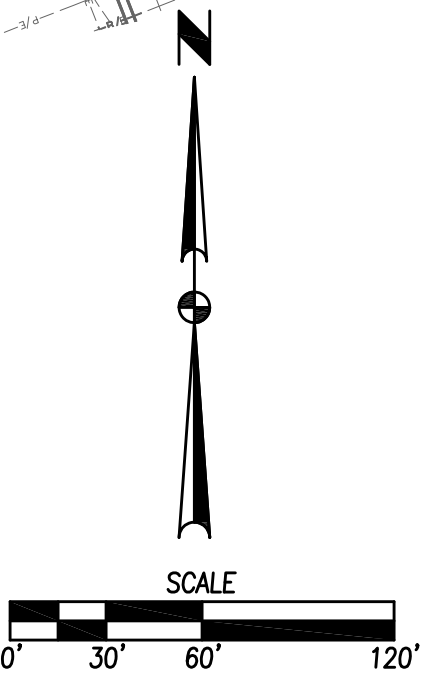
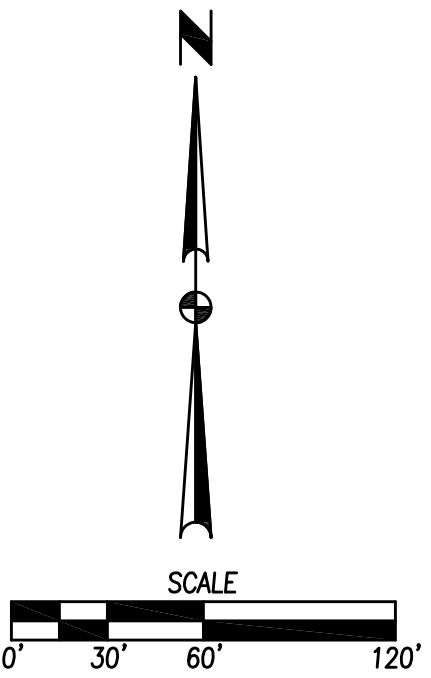


- STRUCTURE MAY BE BUILT WITH OPENINGS ON ANY OR ALL SIDES. PROVIDE OPENINGS AND ORIENTATION AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- ADJACENT WALLS MAY HAVE DIFFERENT WIDTHS BASED UPON PIPE CONFIGURATION, BUT STRUCTURE MUST BE RECTANGULAR.
1. CONSTRUCT 3 INLET OPENINGS WITH 15-INCH #4 EPOXY-COATED BARS AT 8 INCHES ON CENTER. EMBED BARS A MINIMUM OF 3 INCHES INTO WALLS AND TOP AT ALL OPENINGS. CONSTRUCT 3 INLET OPENINGS 15" TALL AND 54" WIDE.
 2. GRADE TO INLET ELEVATION ON OPEN SIDES. GRADE TO TOP ELEVATION ON CLOSED SIDES.
 3. WALL WIDTH IS 72" FOR ST-3. PROVIDE 6 INCHES OF WALL WIDTH (MINIMUM) EACH SIDE OF PIPE OPENING. MINIMUM WALL WIDTH IS 36 INCHES. MAXIMUM WALL WIDTH IS 72 INCHES.
 4. CAST-IN-PLACE BASE SHOWN. IF BASE IS PRECAST INTEGRAL WITH WALLS, THE FOOTPRINT OF BASE IS NOT REQUIRED TO EXTEND BEYOND THE OUTER EDGE OF THE WALLS.
 5. INSTALL FOUR #4 DIAGONAL BARS AT ALL PIPE OPENINGS.
 6. 12" MINIMUM WALL HEIGHT ABOVE ALL PIPES.
 7. CORNER PIER REQUIRED BETWEEN OPENINGS OF TWO ADJACENT WALLS. EXTEND WALL REINFORCING VERTICALLY THROUGH PIER. INSTALL ONE ADDITIONAL 15-INCH #4 BAR IN PIER.



ST-3 6'x6' POND OUTLET STRUCTURE (SW-513)
NOT TO SCALE

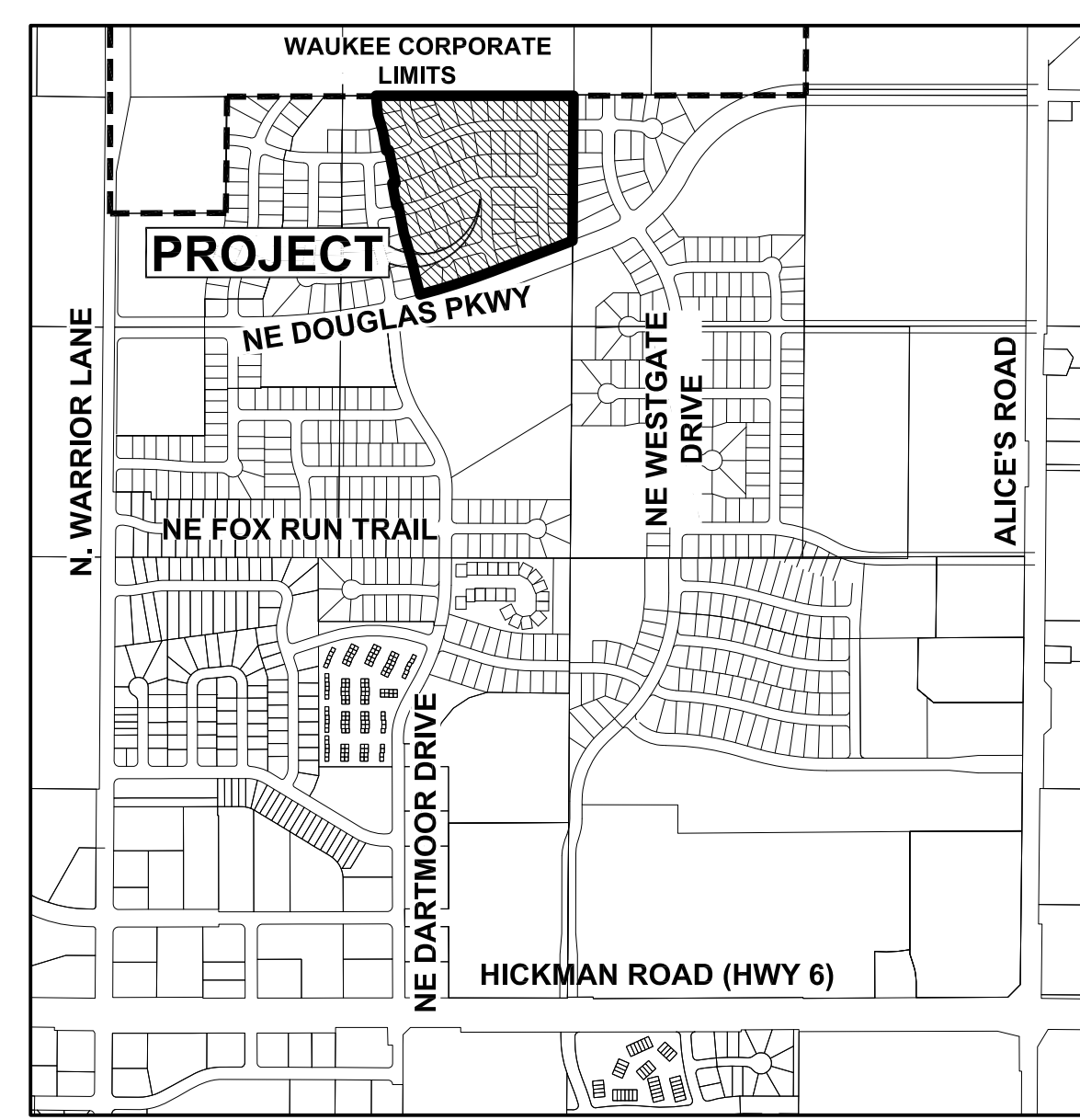




PLANT SCHEDULE					
CODE	QTY	DESCRIPTION	SIZE	COND	
AM	4	AUTUMN BLAZE MAPLE	ACER RUBRUM 'AUTUMN BLAZE'	1.5" CAL	B&B
CS	15	CHANTILLON PEAR	PYRUS CALLERYANA 'GLENS FORM'	1.5" CAL	B&B
BS	15	COLORADO BLUE SPRUCE	PICEA PUNGENS	6" HT.	B&B
CM	4	CRIMSON KING MAPLE	ACER PLATANOIDES	2" CAL	B&B
RO	4	RED OAK	QUERCUS RUBRA	2" CAL	B&B
DS	25	DOUGLAS FIR	PSUEDOTSUGA MENZIESII	6" HT.	B&B
SC	3	SPRING SNOW CRAB	MALUS X 'SPRING SNOW'	1.5" CAL	B&B

FOX CREEK ESTATES PLAT 7

VICINITY MAP
NOT TO SCALE



WAUKEE, IOWA

EROSION AND SEDIMENT CONTROL PLAN

SWPPP LEGEND

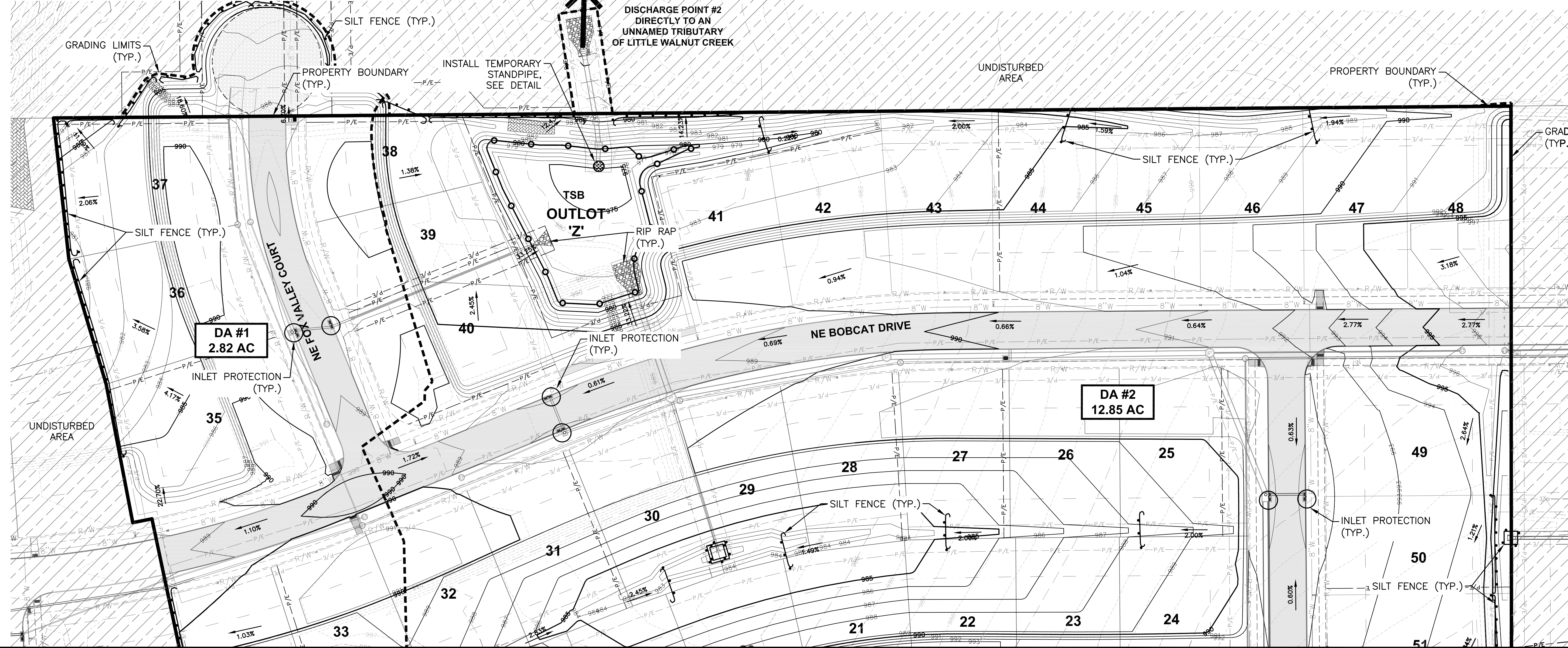
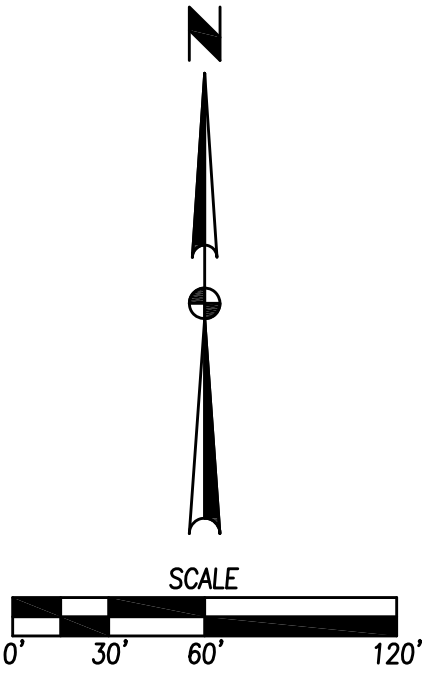
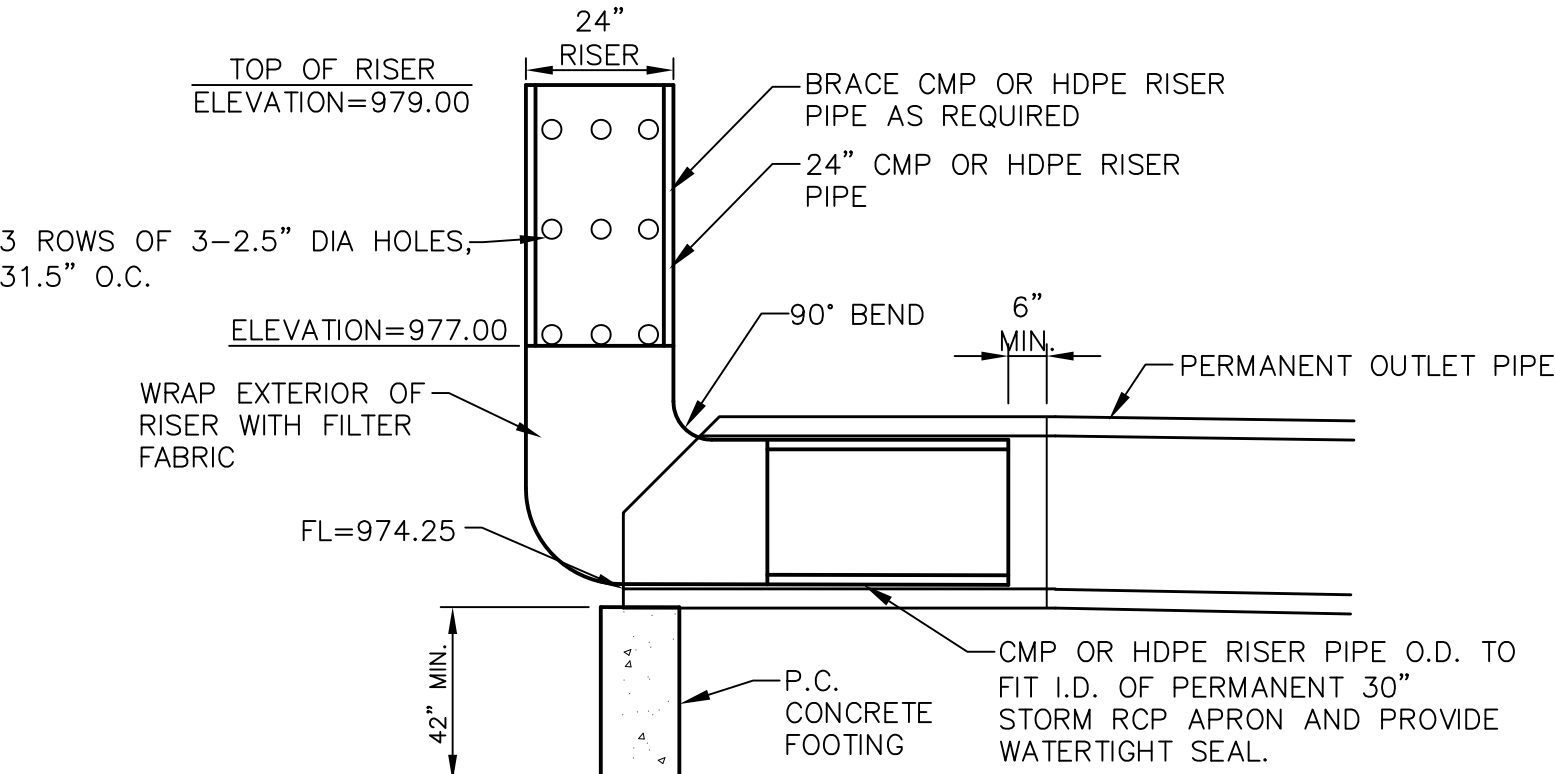
DRAINAGE ARROW		AREA TO BE SEEDED	
GRADING LIMITS		STRAW MAT	
FILTER SOCK		UNDISTURBED AREA	
SILT FENCE		RIPRAP	
INLET PROTECTION		GRAVEL ENTRANCE	
PORTABLE RESTROOM		STAGING AREA	
CONCRETE WASHOUT PIT		TEMPORARY SEDIMENT BASIN	
TEMPORARY STANDPIPE			

STABILIZATION QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	3,672
2	FILTER SOCK	LF	40
3	SEEDING, FERTILIZING, AND MULCHING	AC	20.51
4	INLET PROTECTION DEVICES	EA	24
5	CONCRETE WASHOUT PIT	EA	1
6	24" CMP/HDPE TEMPORARY STANDPIPE	EA	1

TEMPORARY STAND PIPE DETAIL

NOT TO SCALE



COMMENTS:
DATE PLOTTED: 1/3/2017 2:35 PM
PLOT BY: GAE HEROLD
DWG NO: 1504229

DATE

01/05/17
03/07/15
10/21/15
09/28/15
09/16/15
08/07/15
07/13/15

REVISIONS

AS-BUILT SUBMITTAL
FINAL SUBMITTAL
FIFTH SUBMITTAL
FOURTH SUBMITTAL
THIRD SUBMITTAL
SECOND SUBMITTAL
FIRST SUBMITTAL

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

FOX CREEK ESTATES PLAT 7
EROSION AND SEDIMENT CONTROL PLAN
WAUKEE, IOWA

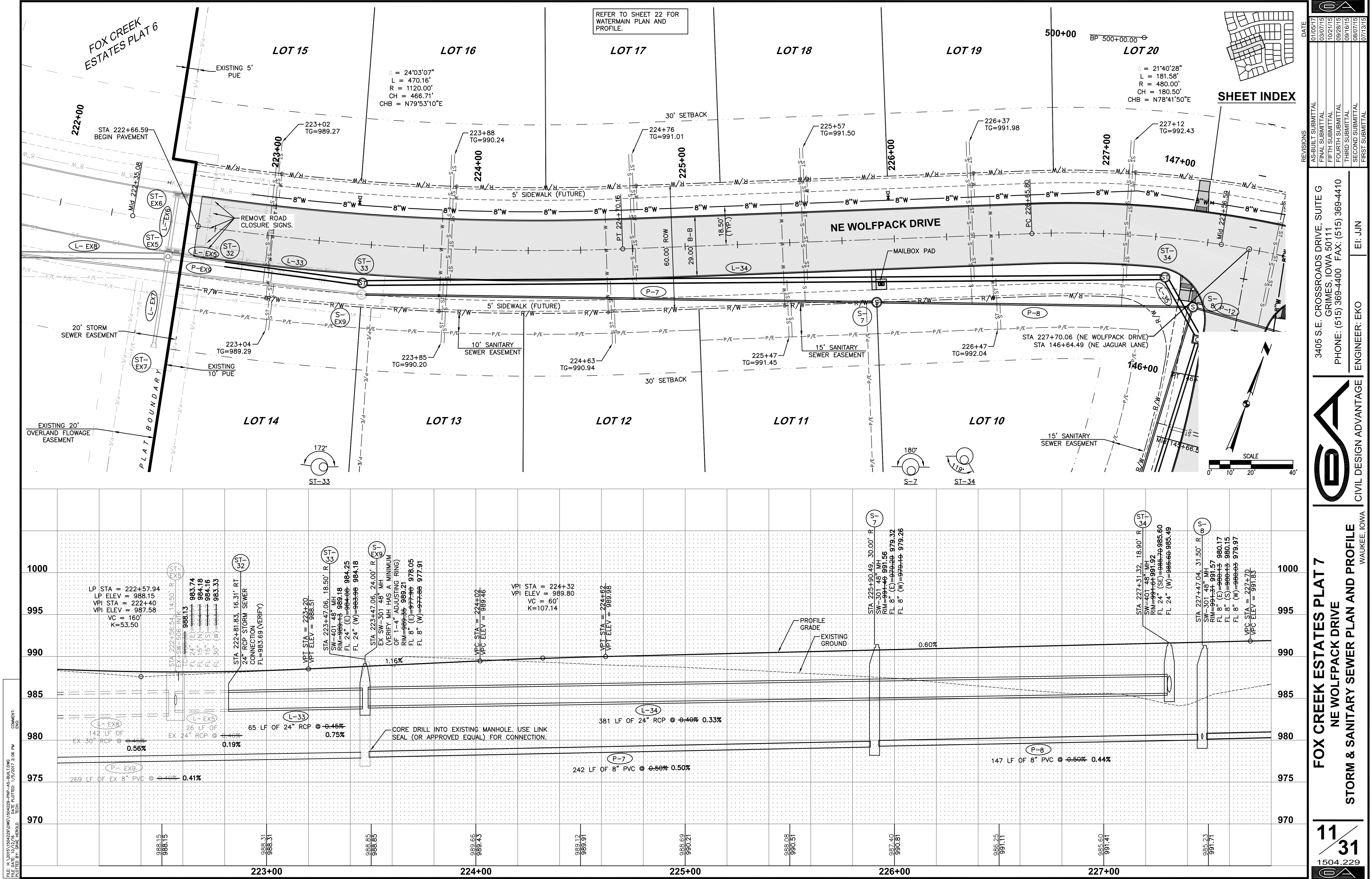
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31
1504.229

<u>DISCHARGE POINT #1 TO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK ±500 FT</u>	
TOTAL AREA DISTURBED TO DISCHARGE POINT	2.82 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	10,152 CU FT
VOLUME PROVIDED IN SILT FENCE (400 LF @ 4.5 CU FT/LF OF FENCE)	1,800 CU FT
VOLUME PROVIDED IN SILT FENCE WITHIN SWALES (146 LF @ 15 CU FT/LF)	2,190 CU FT
VOLUME PROVIDED IN MISCELLANEOUS SILT FENCE (392 LF - CALCULATED)	12,059 CU FT
TOTAL VOLUME PROVIDED	16,049 CU FT

<u>DISCHARGE POINT #2 DIRECTLY TO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK</u>	
TOTAL AREA DISTURBED TO DISCHARGE POINT	12.85 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	46,260 CU FT
VOLUME PROVIDED IN SILT FENCE (324 LF @ 4.5 CU FT/LF OF FENCE)	1,458 CU FT
VOLUME PROVIDED IN SILT FENCE WITHIN SNALES (528 LF @ 15 CU T/7/ LF)	7,920 CU FT
VOLUME PROVIDED IN MISCELLANEOUS SILT FENCE (242 LF - CALCULATED)	4,310 CU FT
VOLUME PROVIDED IN TSB	34,140 CU FT
TOTAL VOLUME PROVIDED	47,828 CU FT

<u>DISCHARGE POINT #3 TO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK ±800 FT</u>		
TOTAL AREA DISTURBED TO DISCHARGE POINT		7.37 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)		26,532 CU FT
VOLUME PROVIDED IN SILT FENCE (332 LF @ 9.0 CU FT/LF OF FENCE)		2,988 CU FT
VOLUME PROVIDED IN SILT FENCE WITHIN SWALES (221 LF @ 15 CU FT/LF)		3,315 CU FT
VOLUME PROVIDED IN MISCELLANEOUS SILT FENCE (1,087 LF - CALCULATED)		2,739 CU FT
VOLUME PROVIDED IN FILTER SOCK (40 LF @ 2.0 CU FT/LF)		80 CU FT
TOTAL VOLUME PROVIDED		30,122 CU FT





DATE

01/05/17

AS-BUILT SUBMITTAL

03/07/15

FINAL SUBMITTAL

10/21/15

FIFTH SUBMITTAL

09/28/15

FOURTH SUBMITTAL

09/16/15

THIRD SUBMITTAL

08/07/15

SECOND SUBMITTAL

07/13/15

FIRST SUBMITTAL

07/13/15

REVISIONS

DATE

AS-BUILT SUBMITTAL

03/07/15

FINAL SUBMITTAL

10/21/15

FIFTH SUBMITTAL

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09/16/15

THIRD SUBMITTAL

08/07/15

SECOND SUBMITTAL

07/13/15

FIRST SUBMITTAL

07/13/15

3405 S.E. CROSSROADS DRIVE, SUITE G

GRIMES, IOWA 50111

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

ENGINEER: EKO

EI: JJN

11

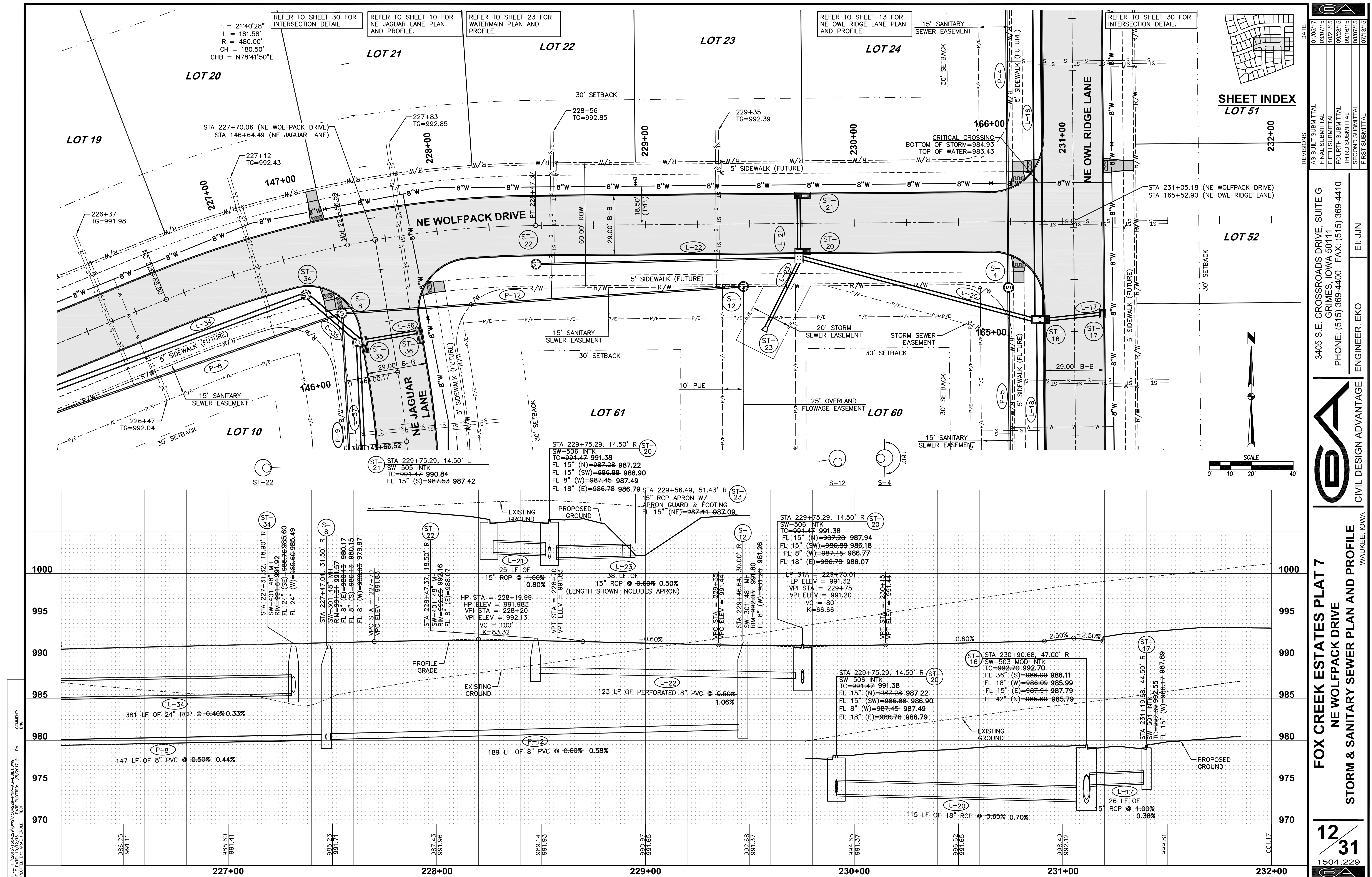
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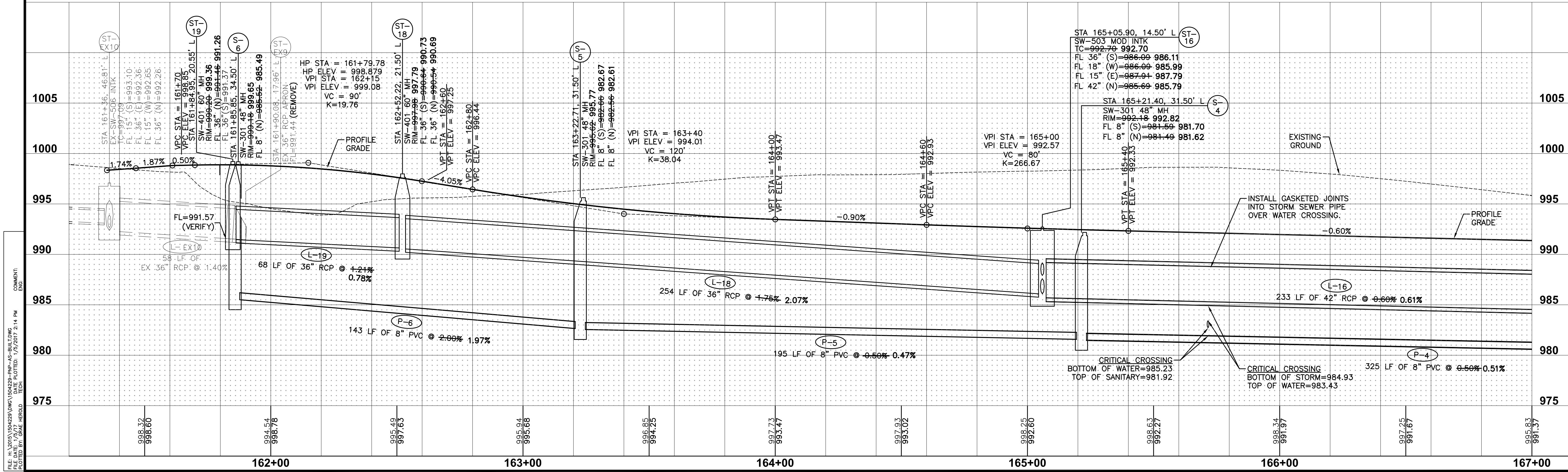
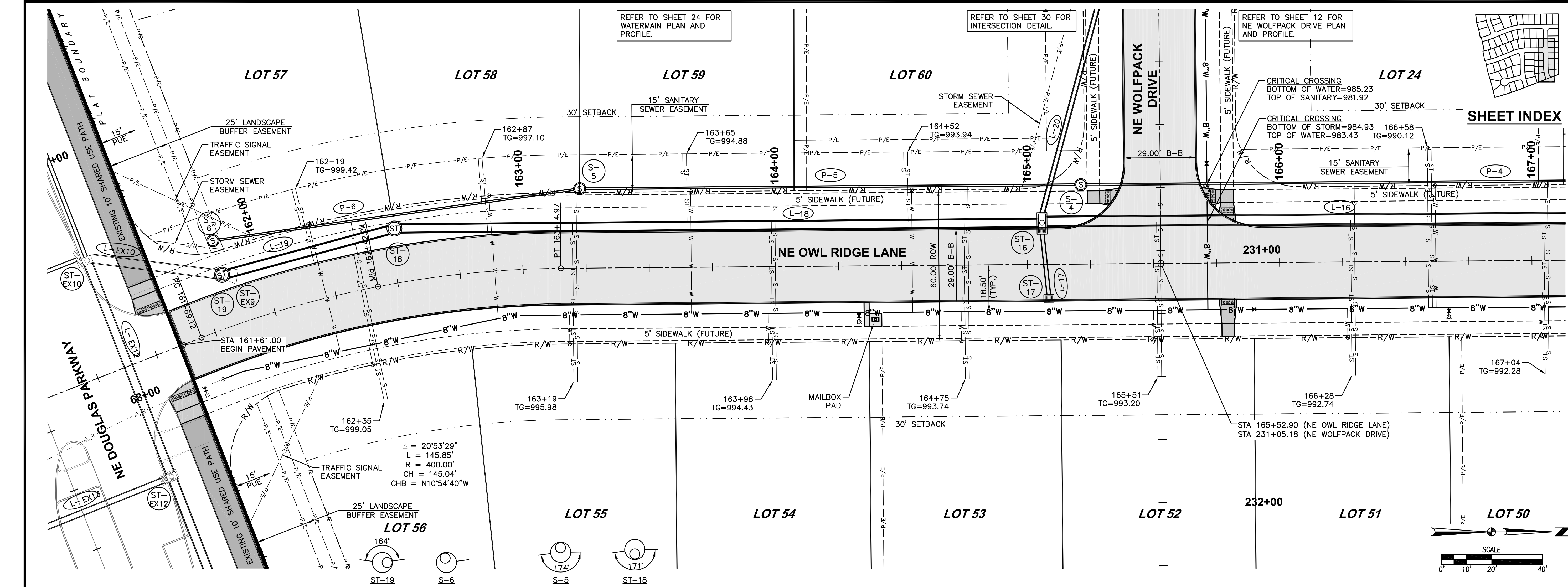
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1504.229





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01/05/17
03/07/15
10/21/15
09/28/15
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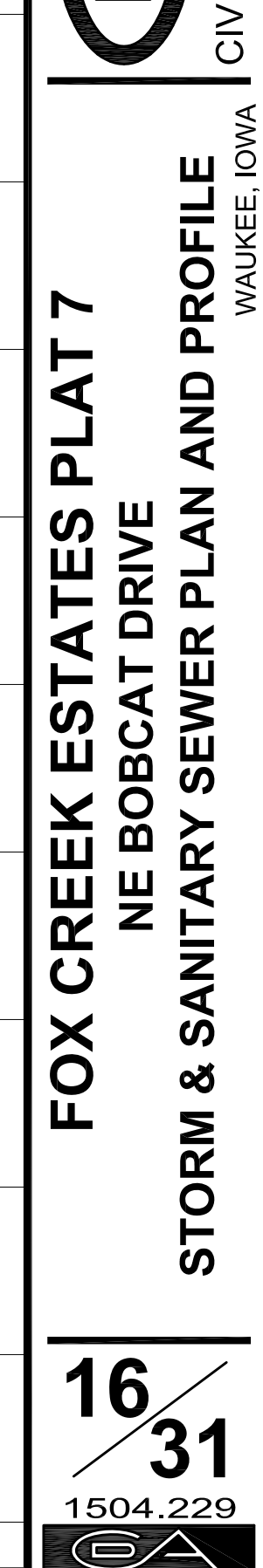
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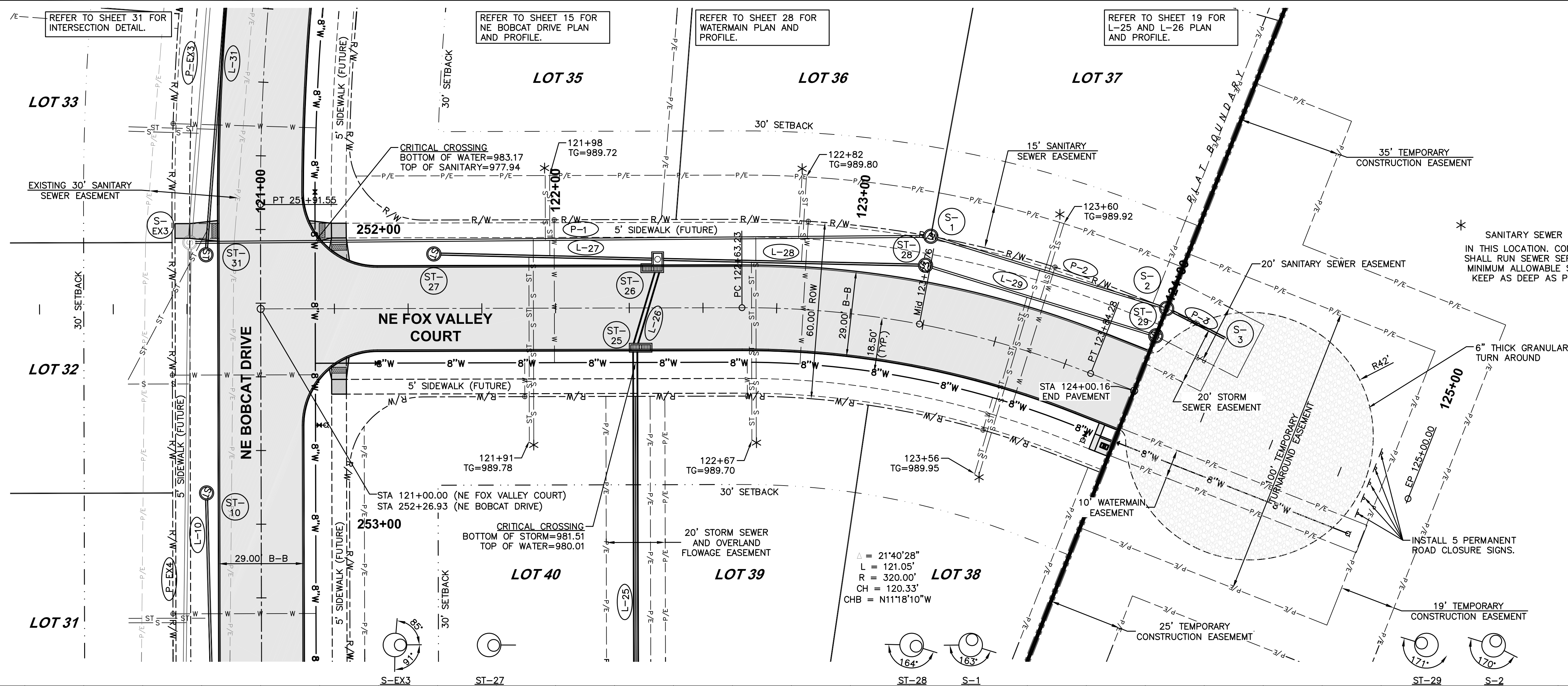
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

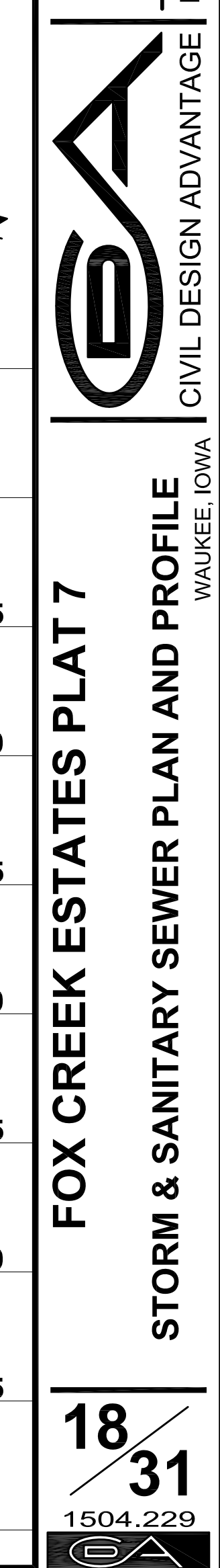
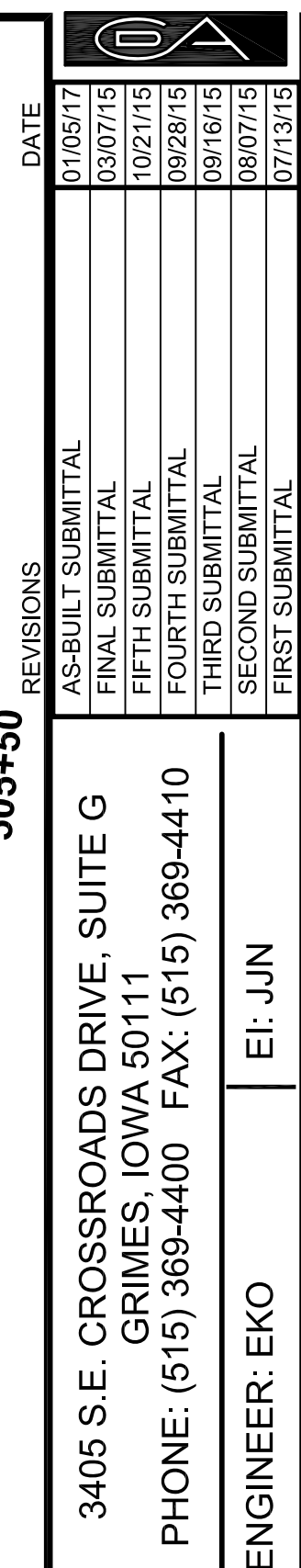
ENGINEER: EKO
E.I.: J.J.N.

FOX CREEK ESTATES PLAT 7
NE OWL RIDGE LANE
STORM & SANITARY SEWER PLAN AND PROFILE

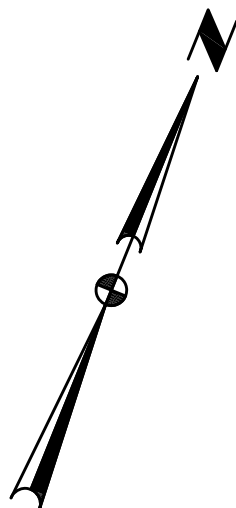
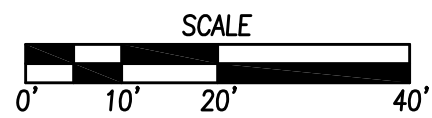
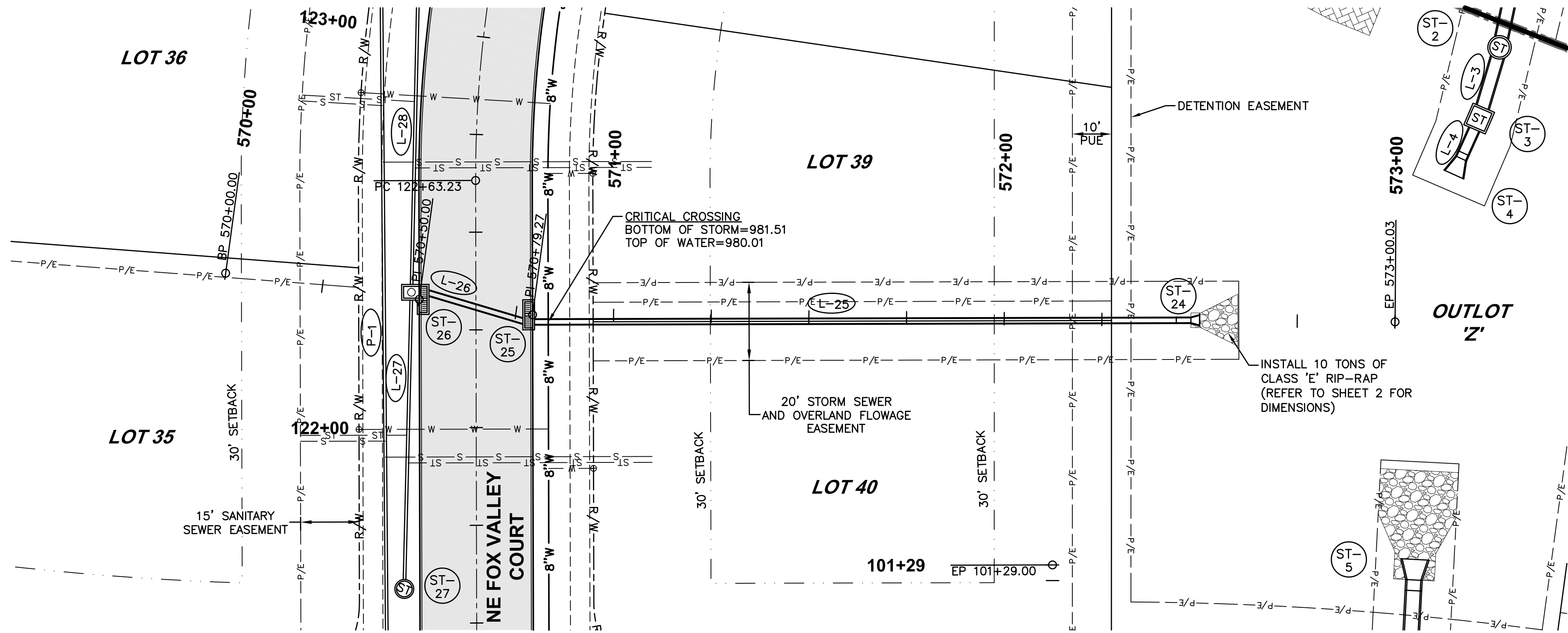
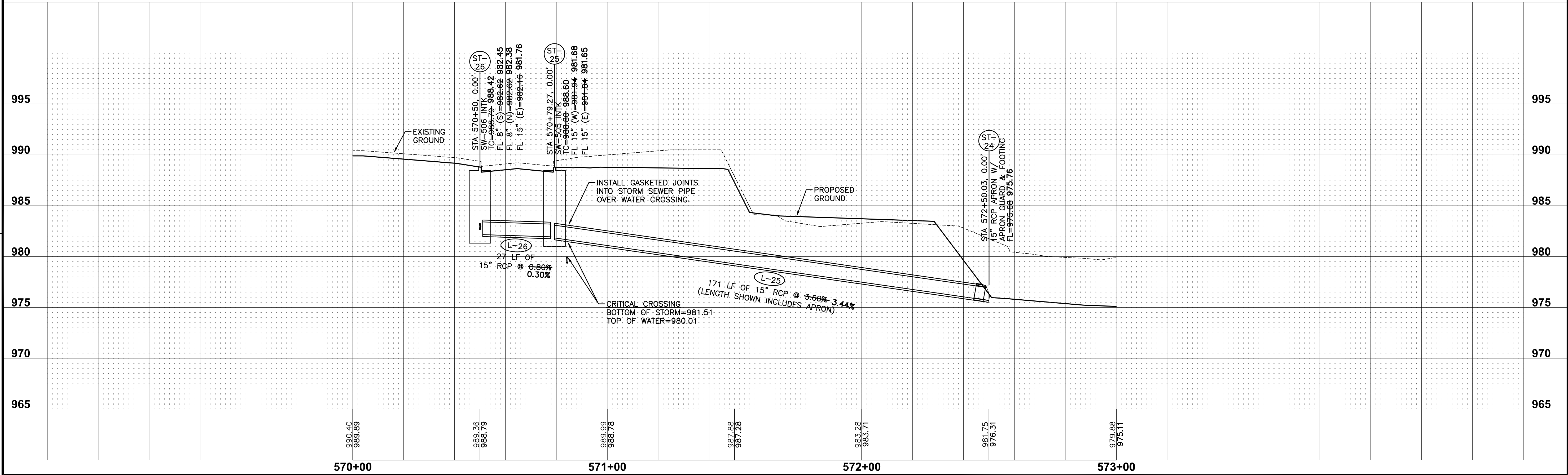
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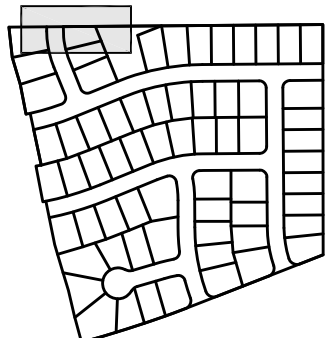




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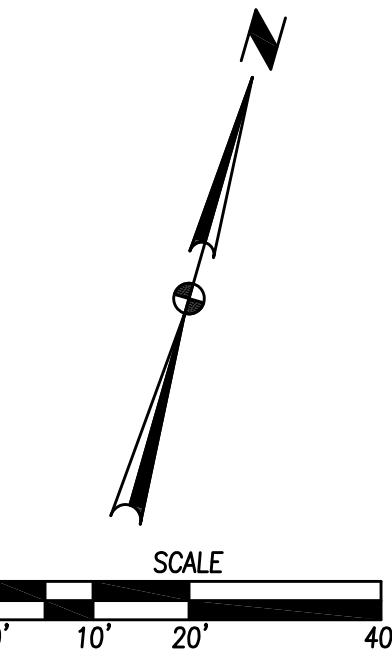
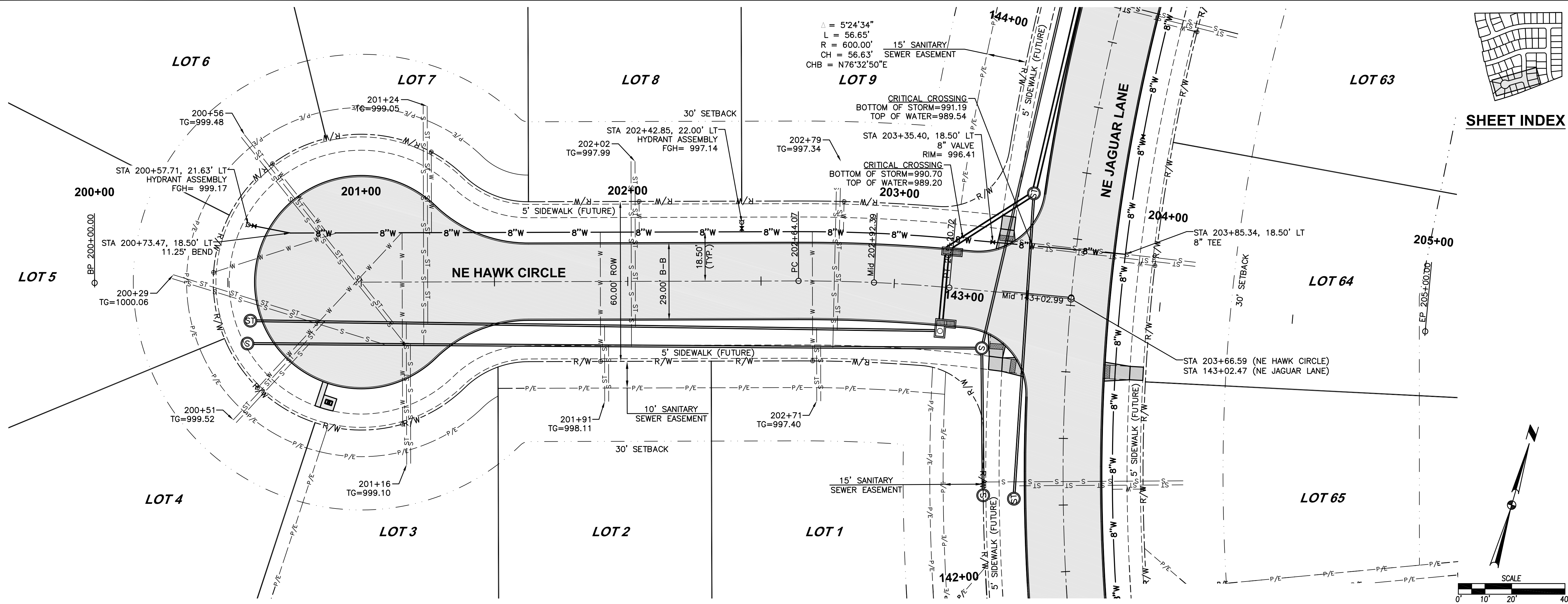
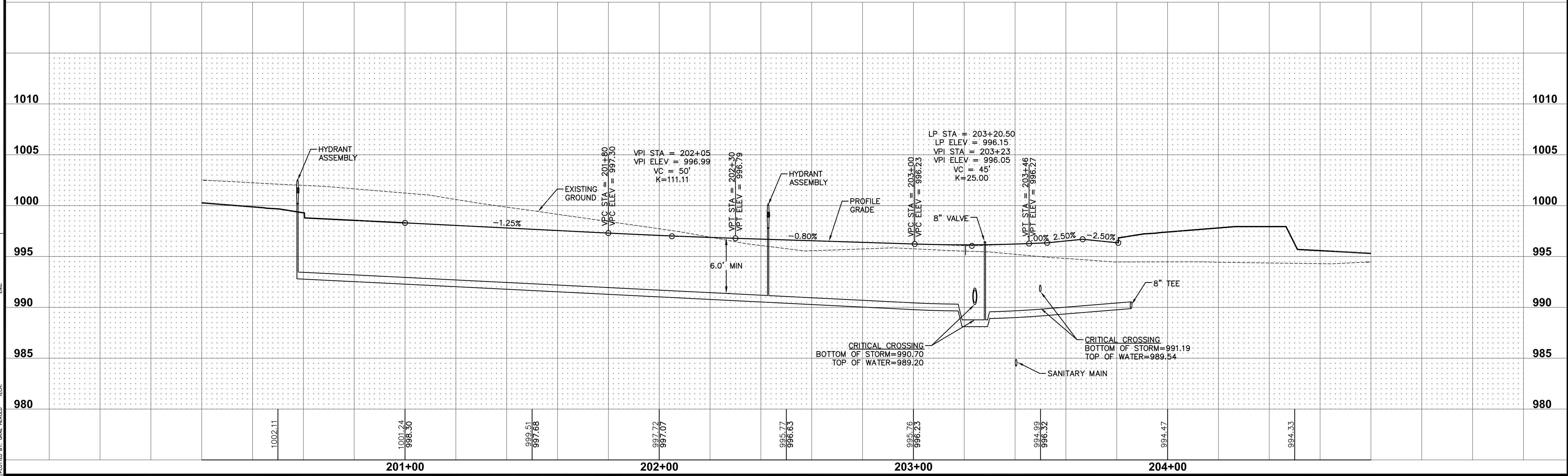


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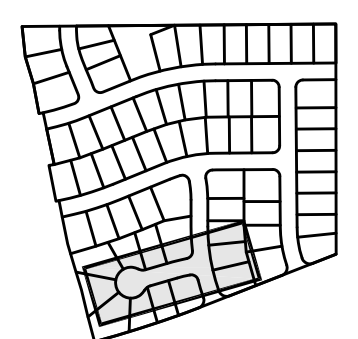


REVISIONS	DATE
AS-BUILT SUBMITTAL	01/05/17
FINAL SUBMITTAL	03/07/15
FIFTH SUBMITTAL	10/21/15
FOURTH SUBMITTAL	09/28/15
THIRD SUBMITTAL	09/16/15
SECOND SUBMITTAL	08/07/15
FIRST SUBMITTAL	07/13/15

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COMMENTS:



SHEET INDEX



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FINAL SUBMITTAL	03/07/15	
FIFTH SUBMITTAL	10/21/15	
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SECOND SUBMITTAL	08/07/15	
FIRST SUBMITTAL	07/13/15	

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

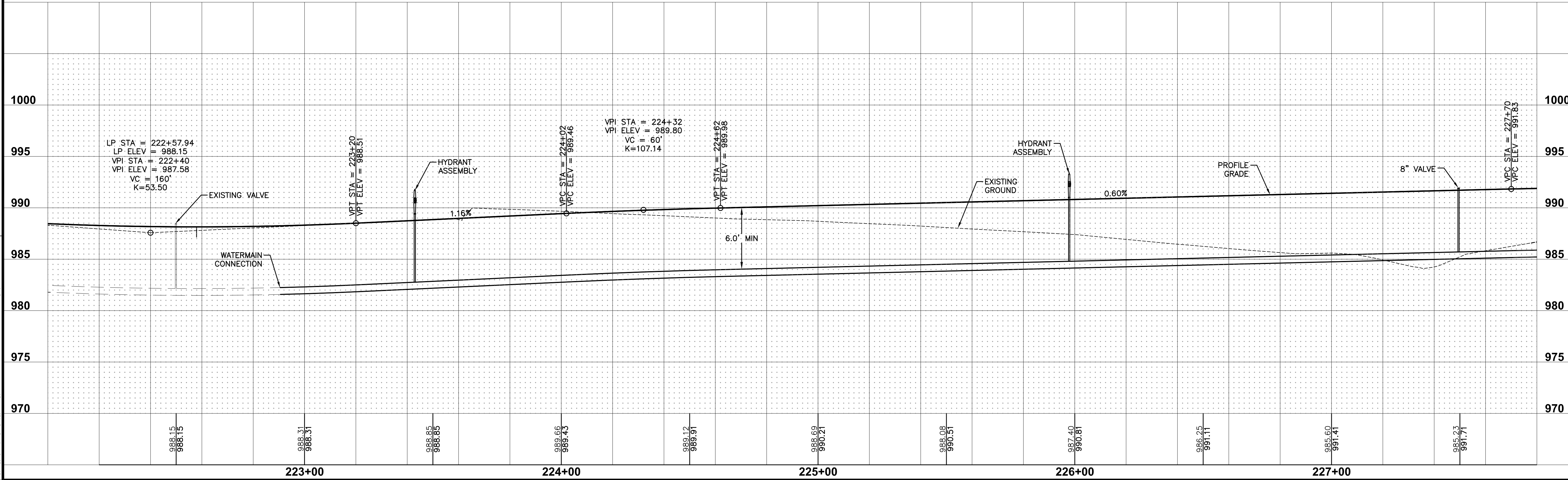
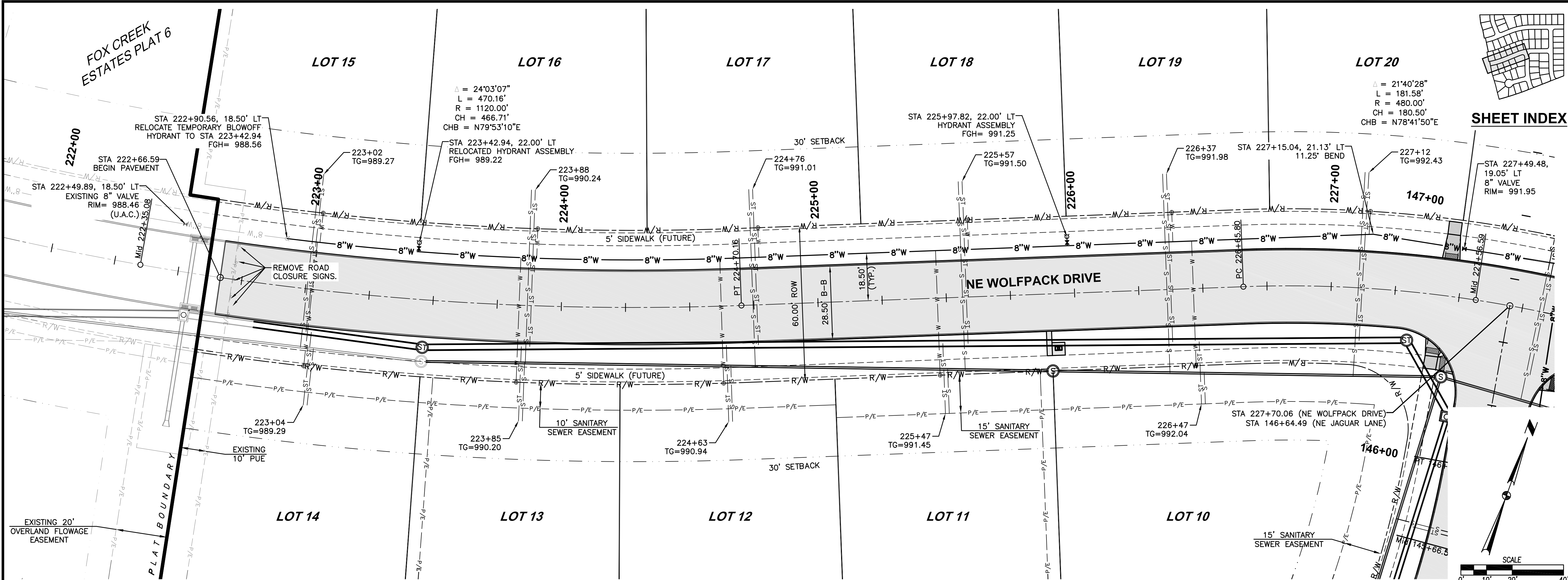
WAUKEE, IOWA

FOX CREEK ESTATES PLAT 7
NE HAWK CIRCLE
WATERMAIN PLAN AND PROFILE

20/31

1504.229

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01/05/17
03/07/15
10/21/15
09/28/15
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08/07/15
07/13/15

AS-BUILT SUBMITTAL
FINAL SUBMITTAL
FIFTH SUBMITTAL
FOURTH SUBMITTAL
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FIRST SUBMITTAL

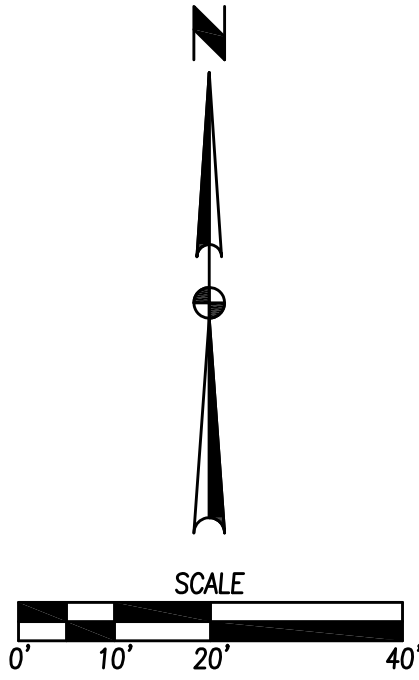
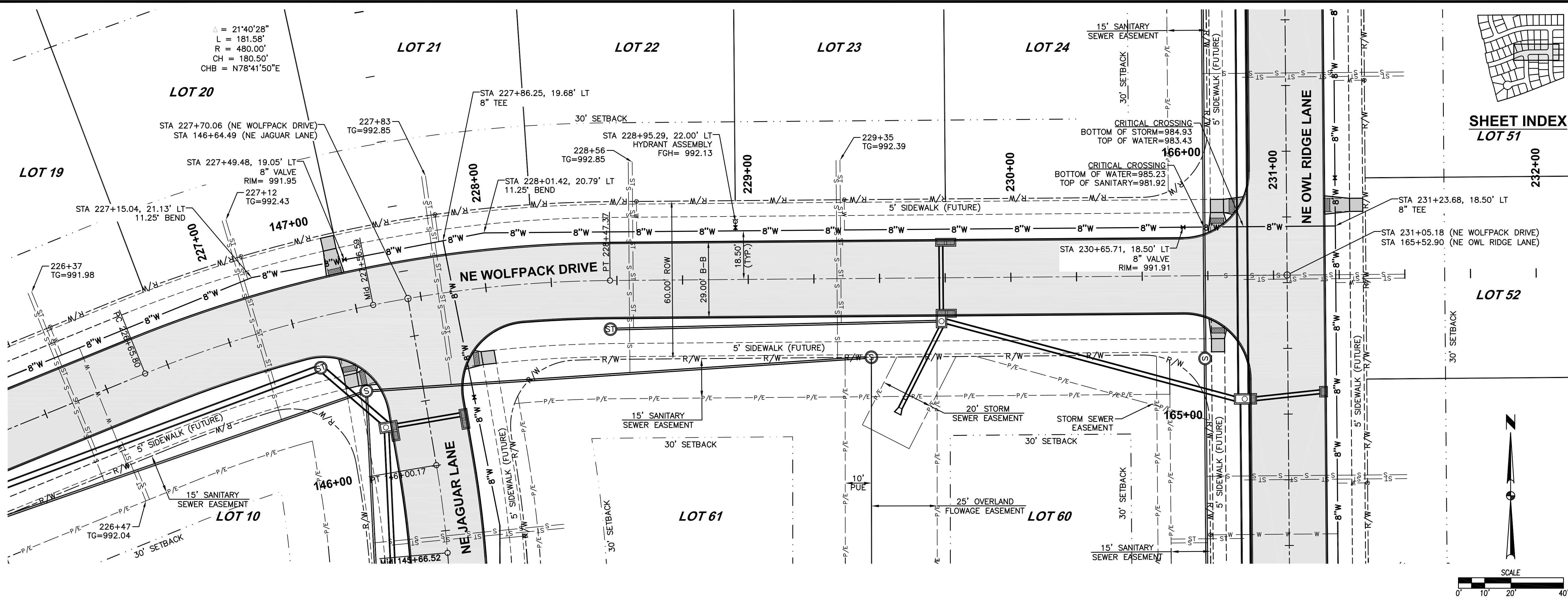
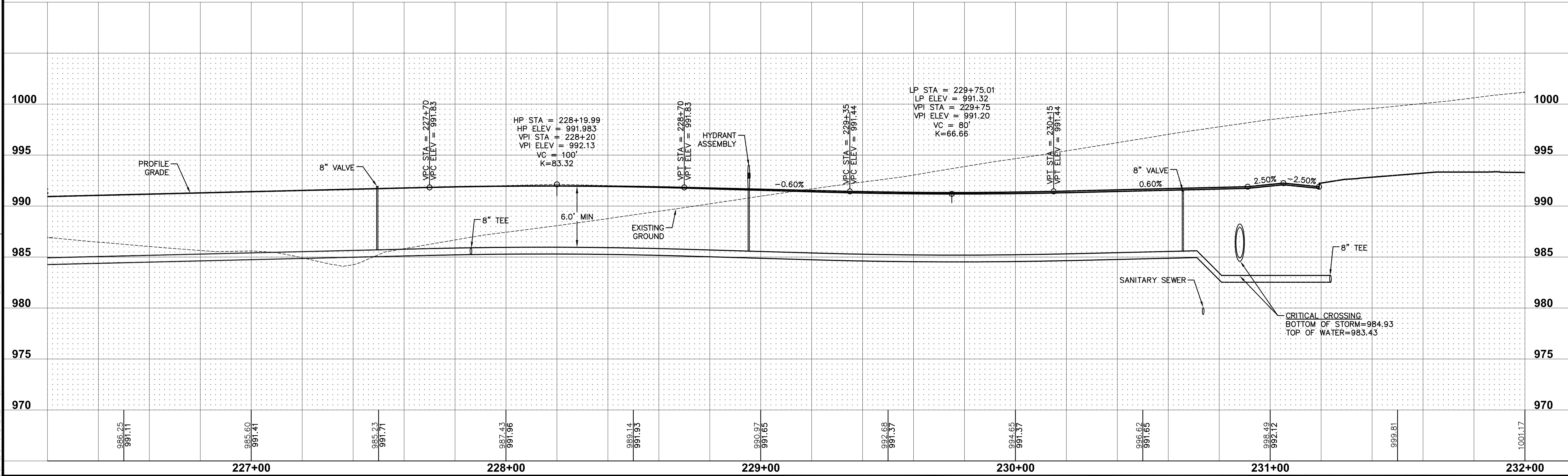
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: EKO
Ei: JJN

CIVIL DESIGN ADVANTAGE
WAUKEE, IOWA

FOX CREEK ESTATES PLAT 7
NE WOLPACK DRIVE
WATERMAIN PLAN AND PROFILE

22/31
1504.229

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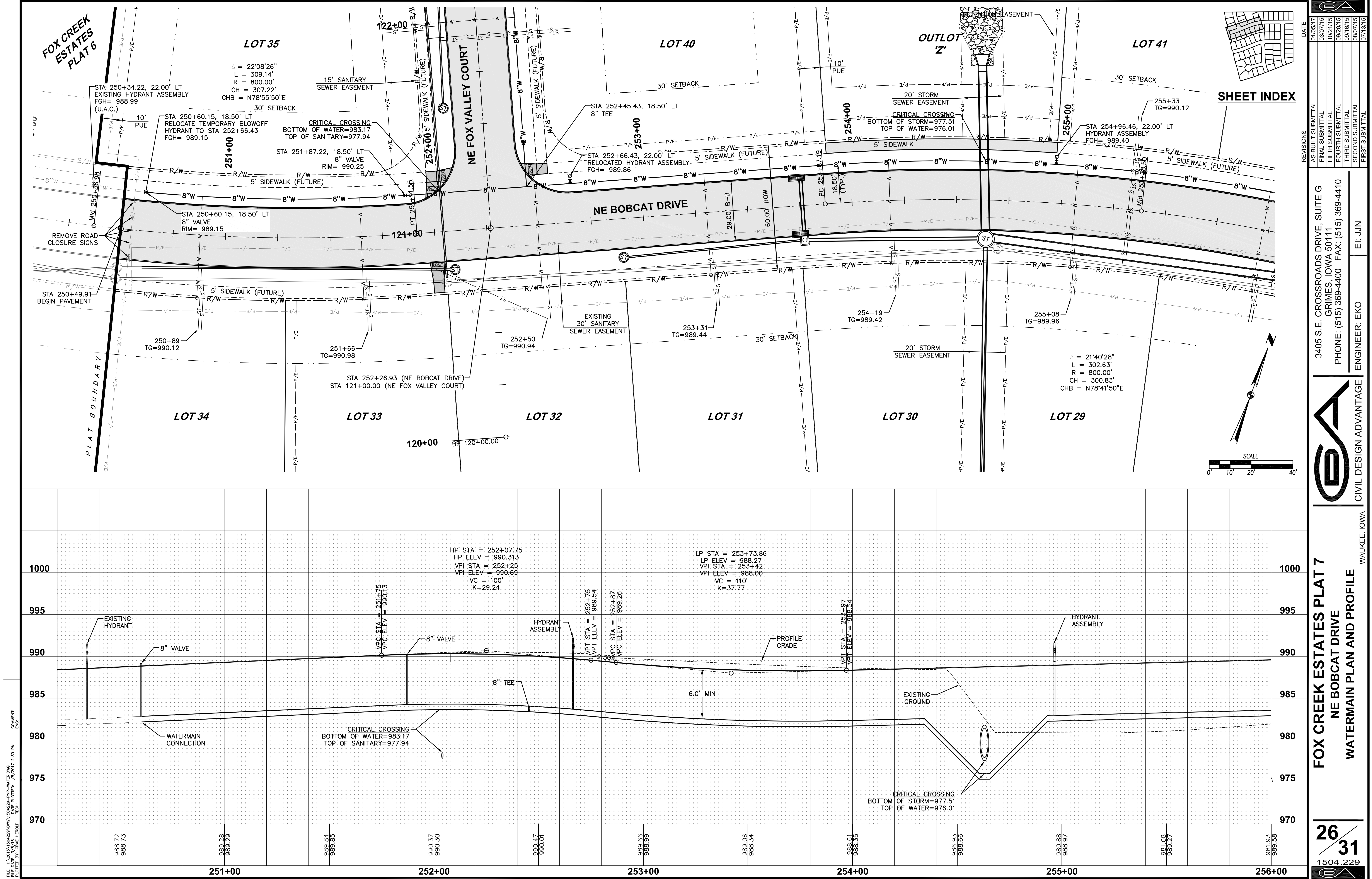


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LOT 51

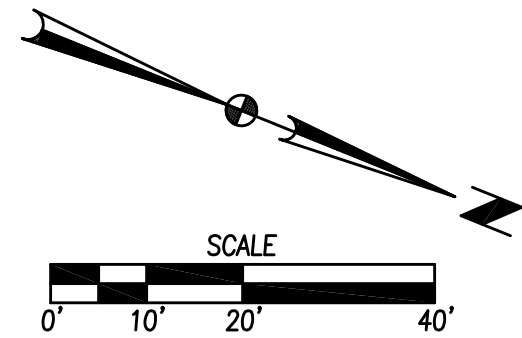
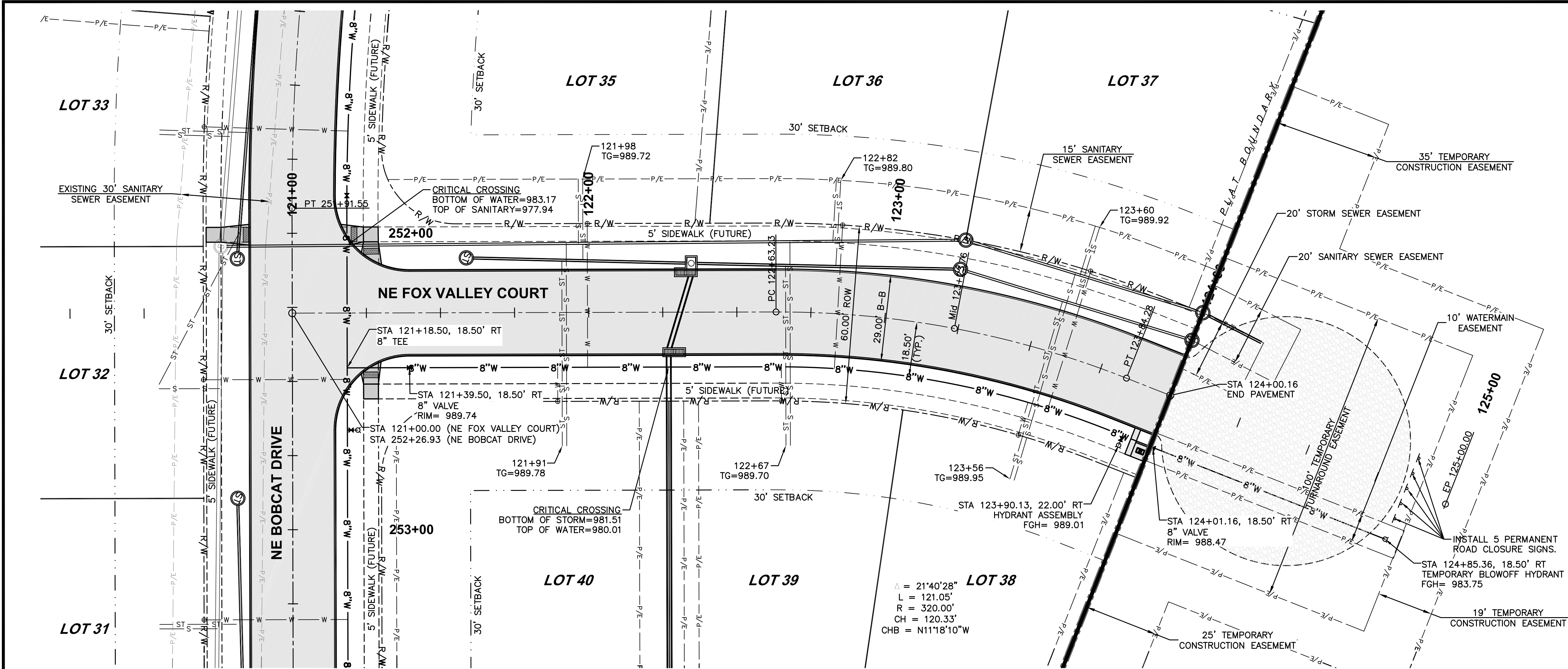
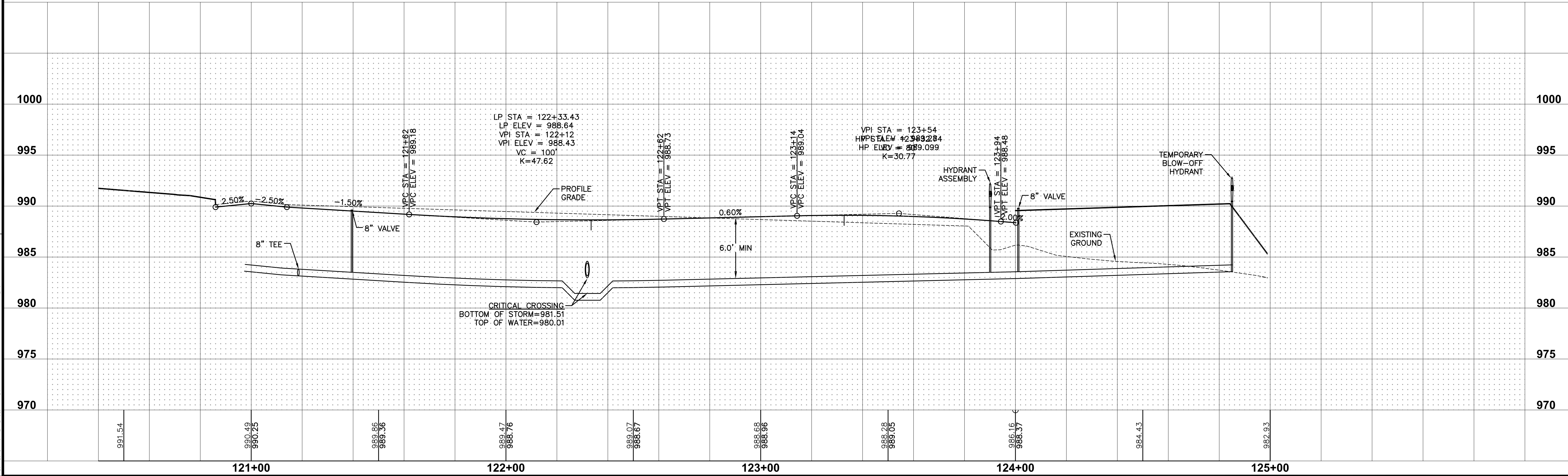
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01/05/17	AS-BUILT SUBMITTAL
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10/21/15	FIFTH SUBMITTAL
09/28/15	FOURTH SUBMITTAL
09/16/15	THIRD SUBMITTAL
08/07/15	SECOND SUBMITTAL
07/13/15	FIRST SUBMITTAL

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

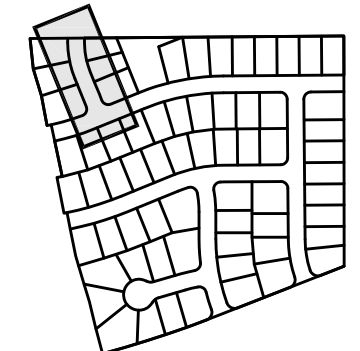
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REVISIONS		DATE
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FINAL SUBMITTAL	03/07/15	
FIFTH SUBMITTAL	10/21/15	
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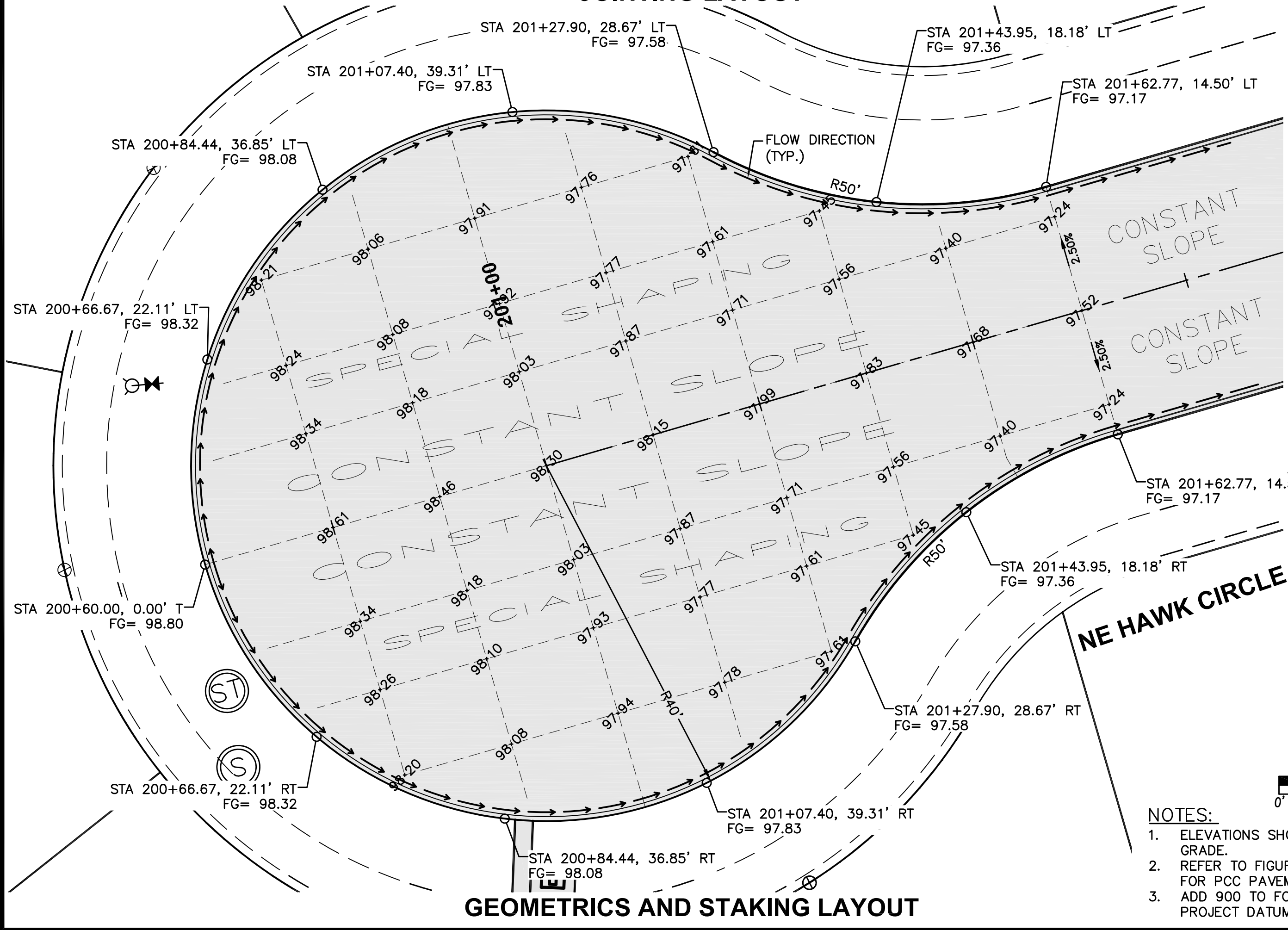
3405 S.E. CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PHONE: (515) 369-4400 FAX: (515) 369-4410	ENGINEER: EKO E.I.: JJN
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CIVIL DESIGN ADVANTAGE, INC.
WAUKEE, IOWA

FOX CREEK ESTATES PLAT 7
NE FOX VALLEY DRIVE
WATERMAIN PLAN AND PROFILE

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1504.229

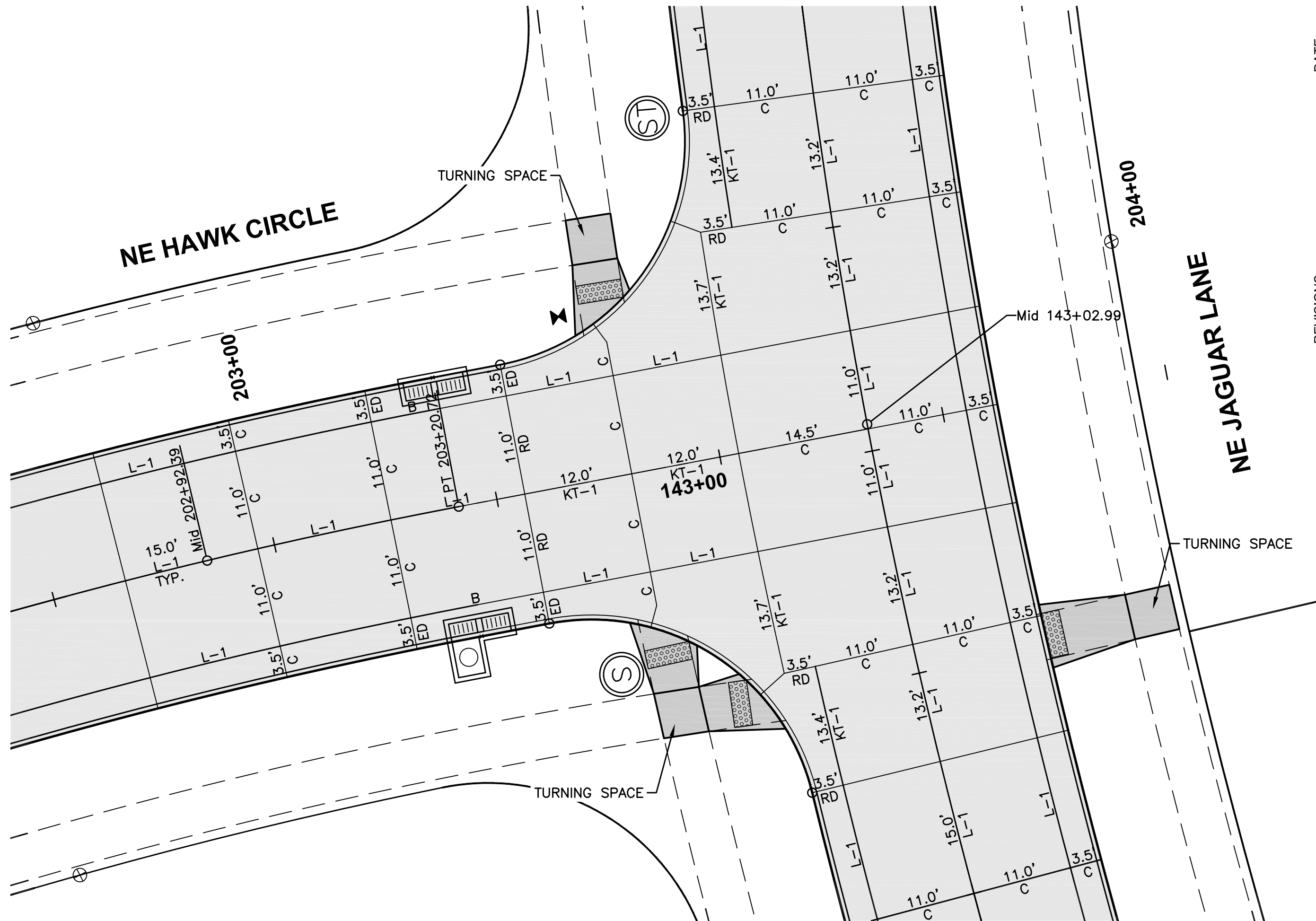
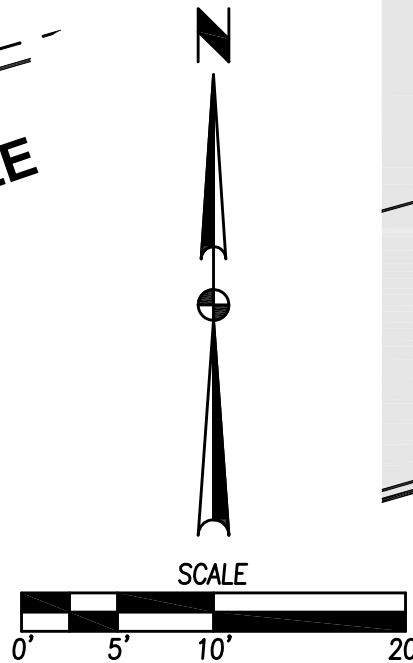
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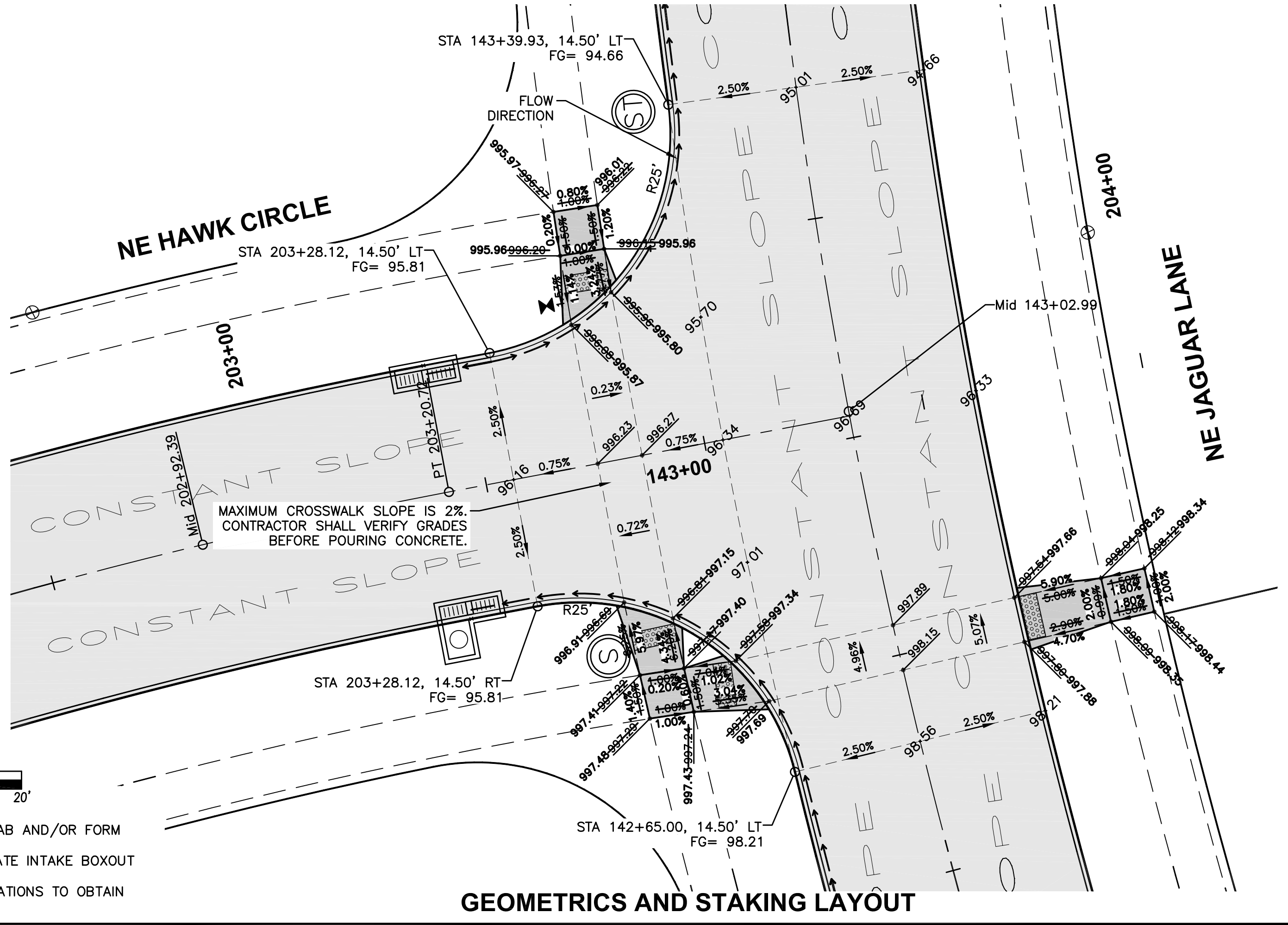
GEOMETRICS AND STAKING LAYOUT

NOTES:

1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
3. ADD 900 TO FOUR DIGIT SPOT ELEVATIONS TO OBTAIN PROJECT DATUM.



JOINTING LAYOUT



GEOMETRICS AND STAKING LAYOUT

REVISIONS		DATE
AS-BUILT SUBMITTAL	01/05/17	
FINAL SUBMITTAL	03/07/15	
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3405 S.E. CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PHONE: (515) 369-4400 FAX: (515) 369-4410	ENGINEER: EKO Ei: JLN
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CIVIL DESIGN ADVANTAGE

WAUKEE, IOWA

FOX CREEK ESTATES PLAT 7

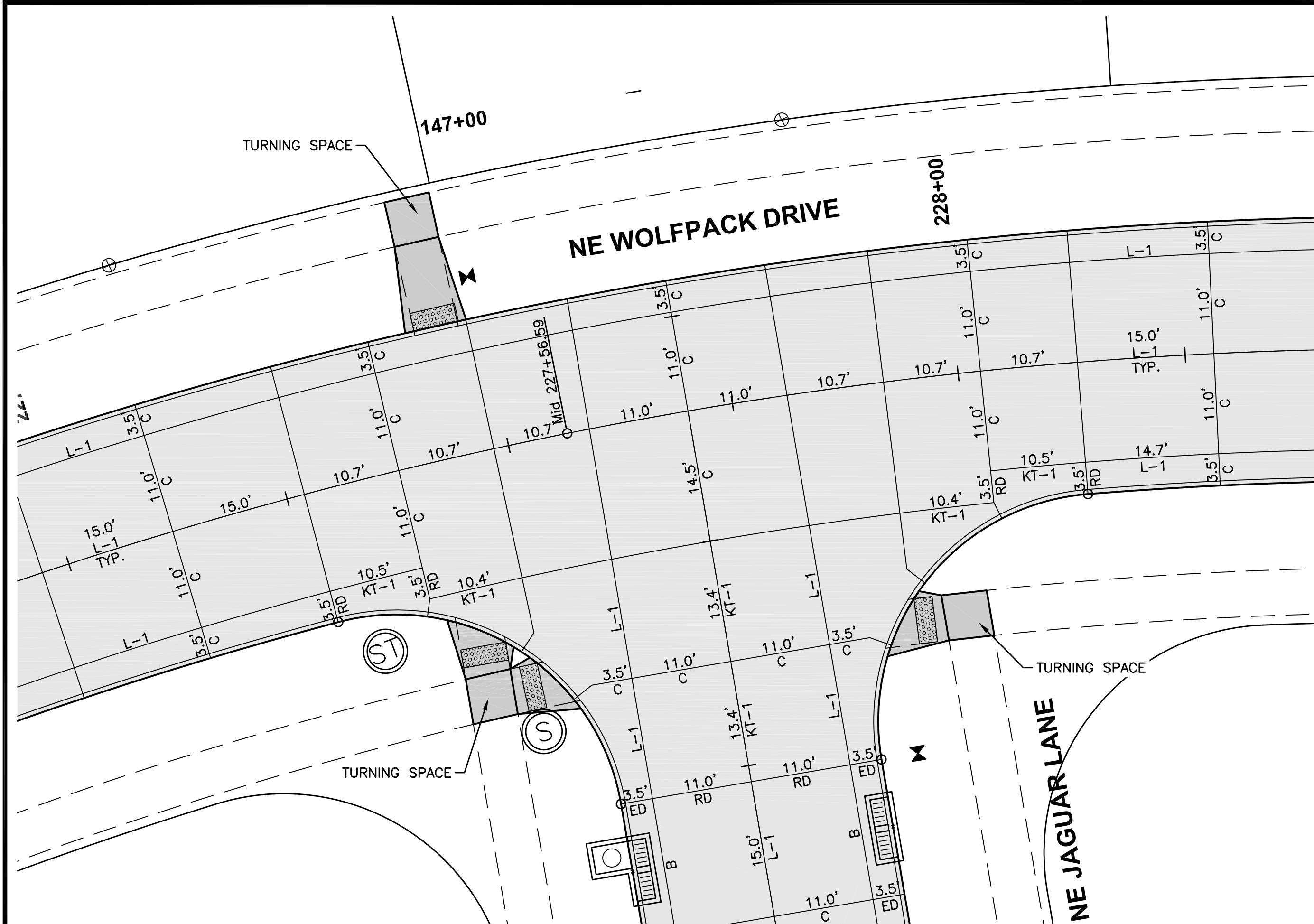
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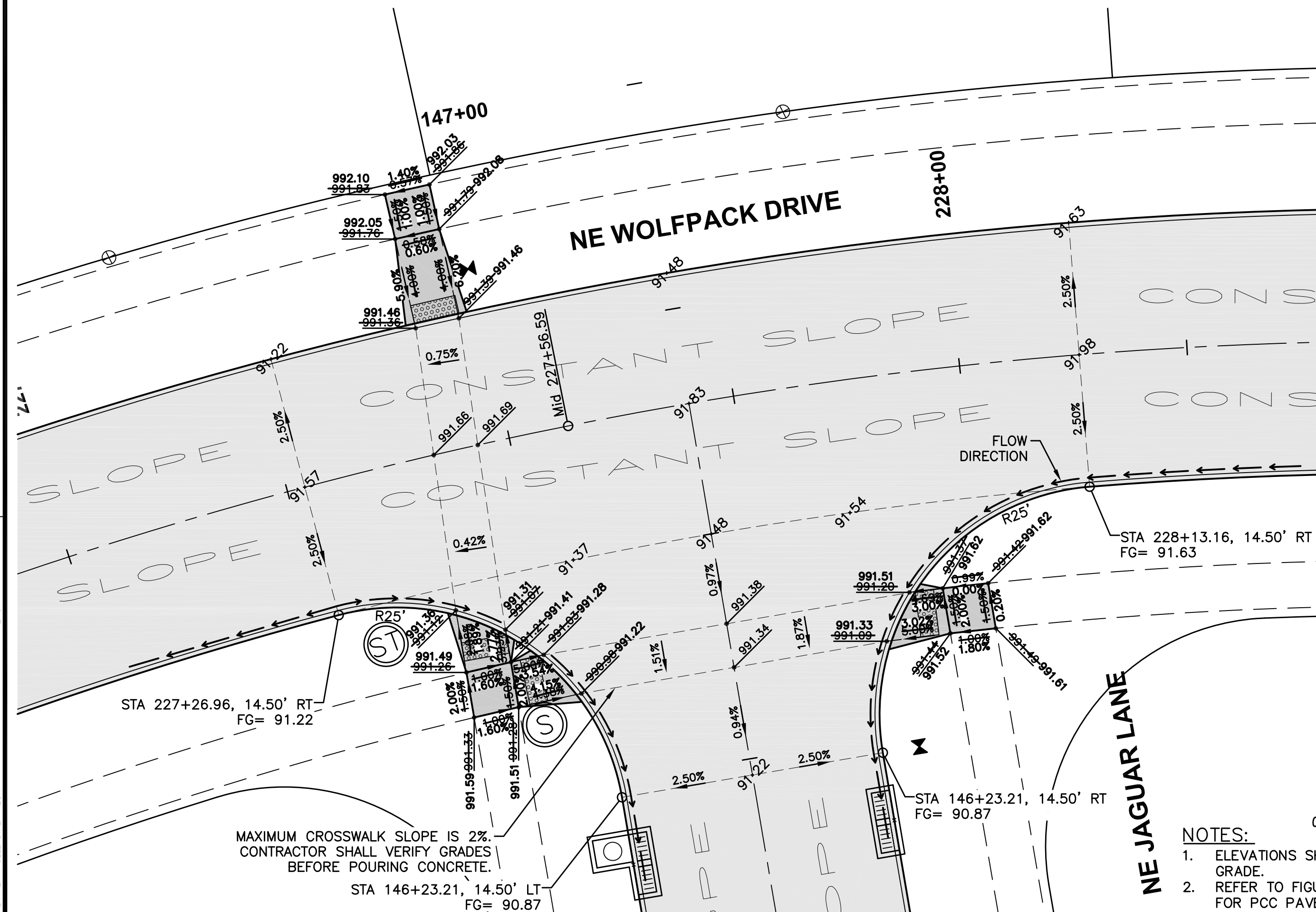
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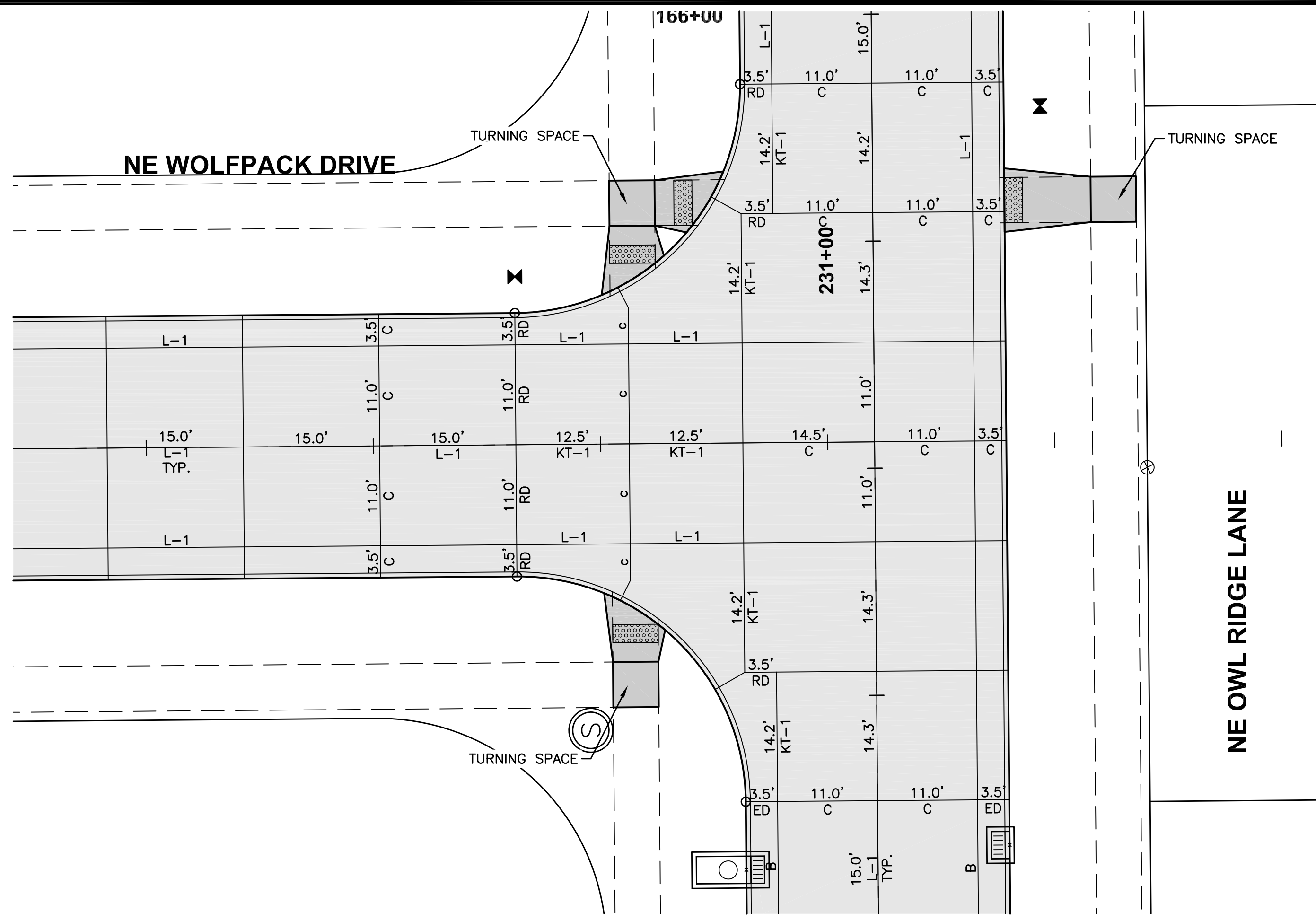
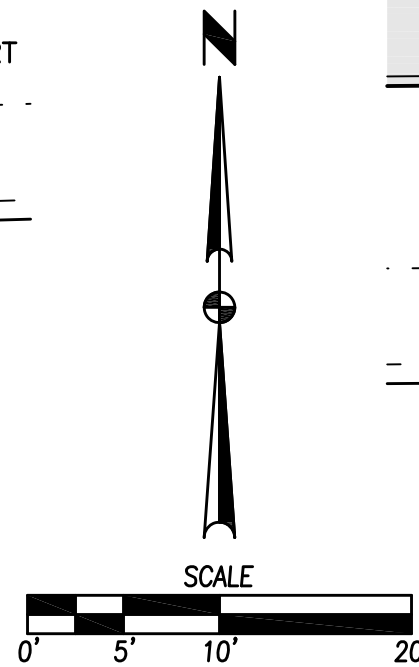
JOINTING LAYOUT



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