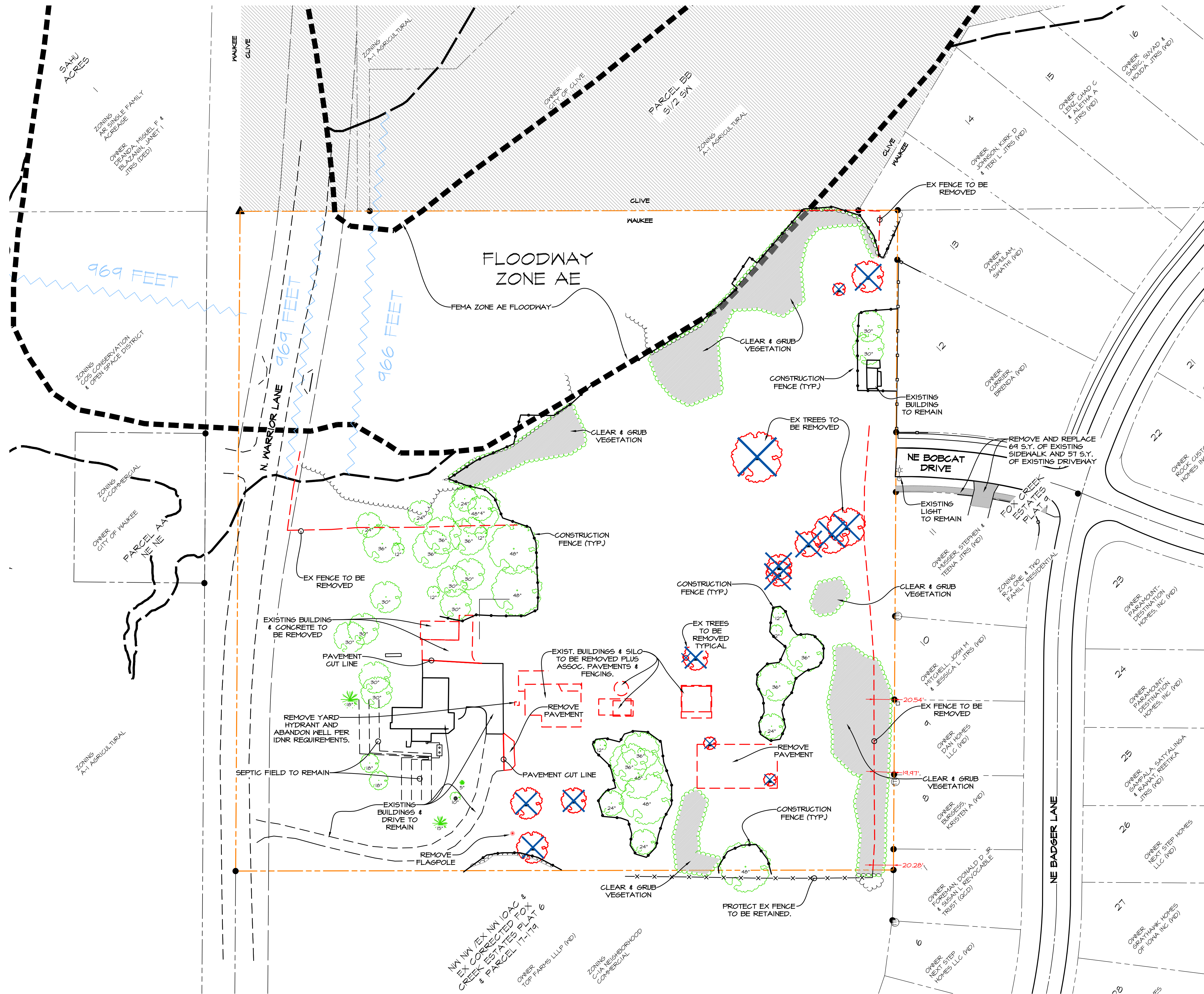


PLOT BY: CODY MEYER AND FULL BLEED D (84.00 X 22.00 INCHES) 2019-07-24 11:11 AUTOCAD PDF (GENERAL DOCUMENTATION) PC3

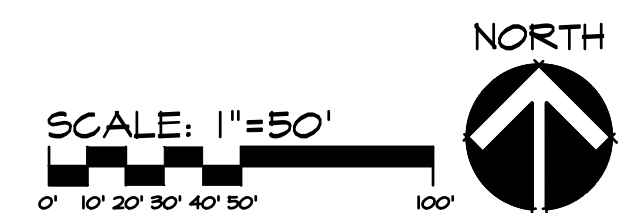


DEMO NOTES

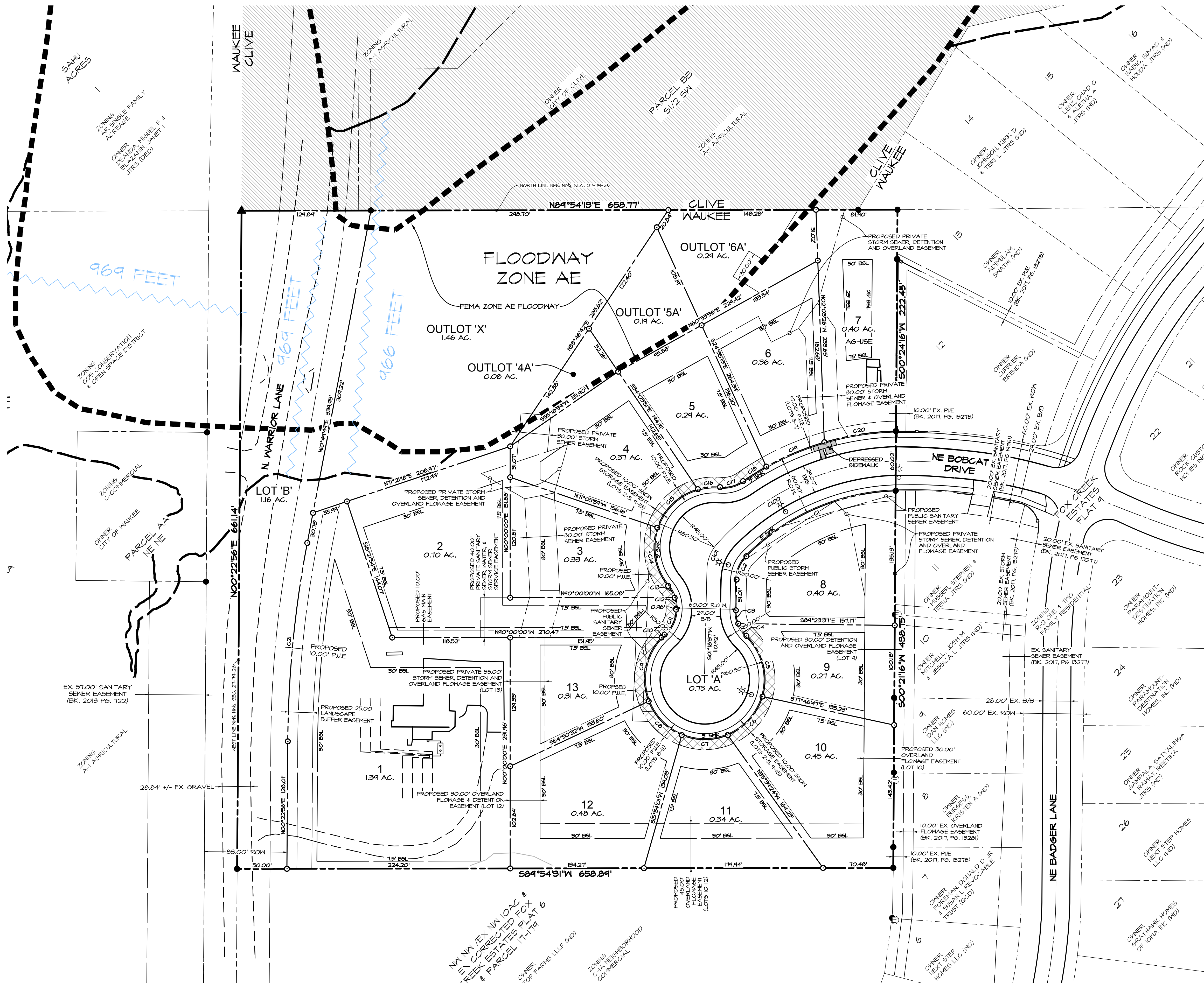
1. A DEMOLITION PERMIT IS REQUIRED FOR THE DEMOLITION OF ALL STRUCTURES. CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FOR THE CITY OF WAIKIKI DEVELOPMENT SERVICES DEPARTMENT.
2. A WELL ABANDONMENT PERMIT IS REQUIRED BY THE DALLAS COUNTY ENVIRONMENTAL HEALTH DEPARTMENT.

QUANTITIES

0.60 AC.	CLEARING & GRUBBING
2,075 LF.	TREE PROTECTION FENCING

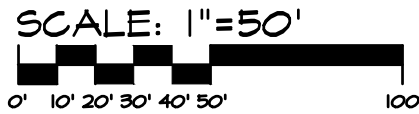


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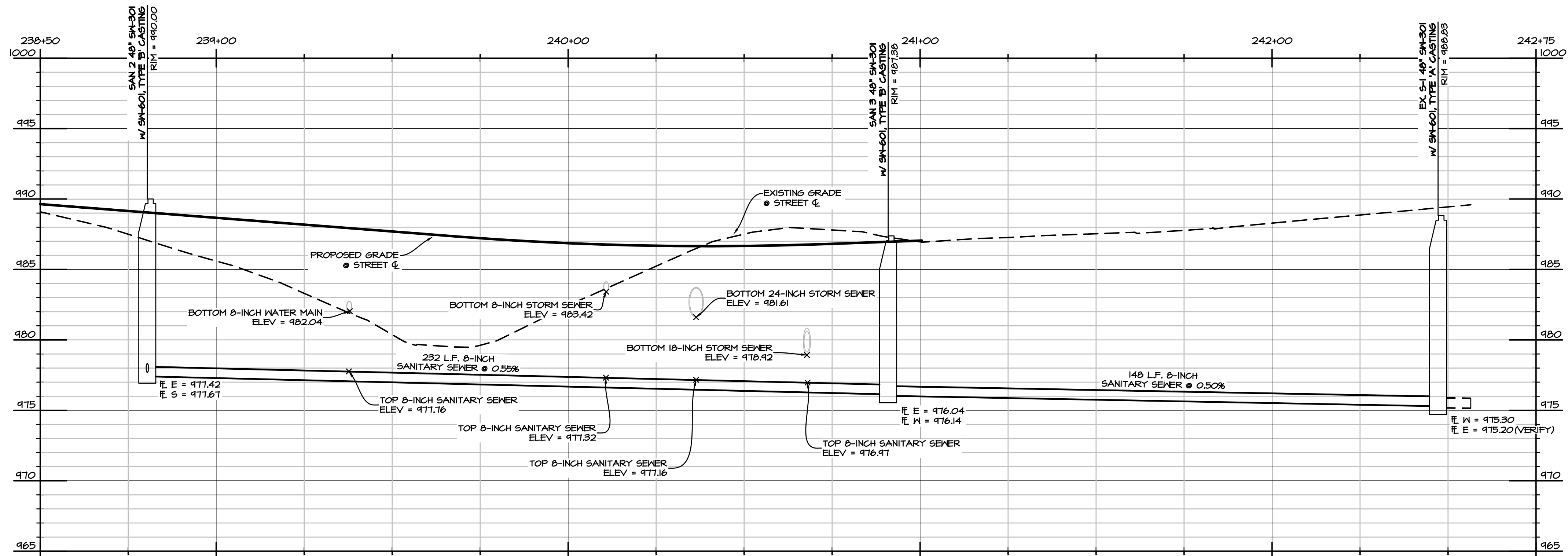
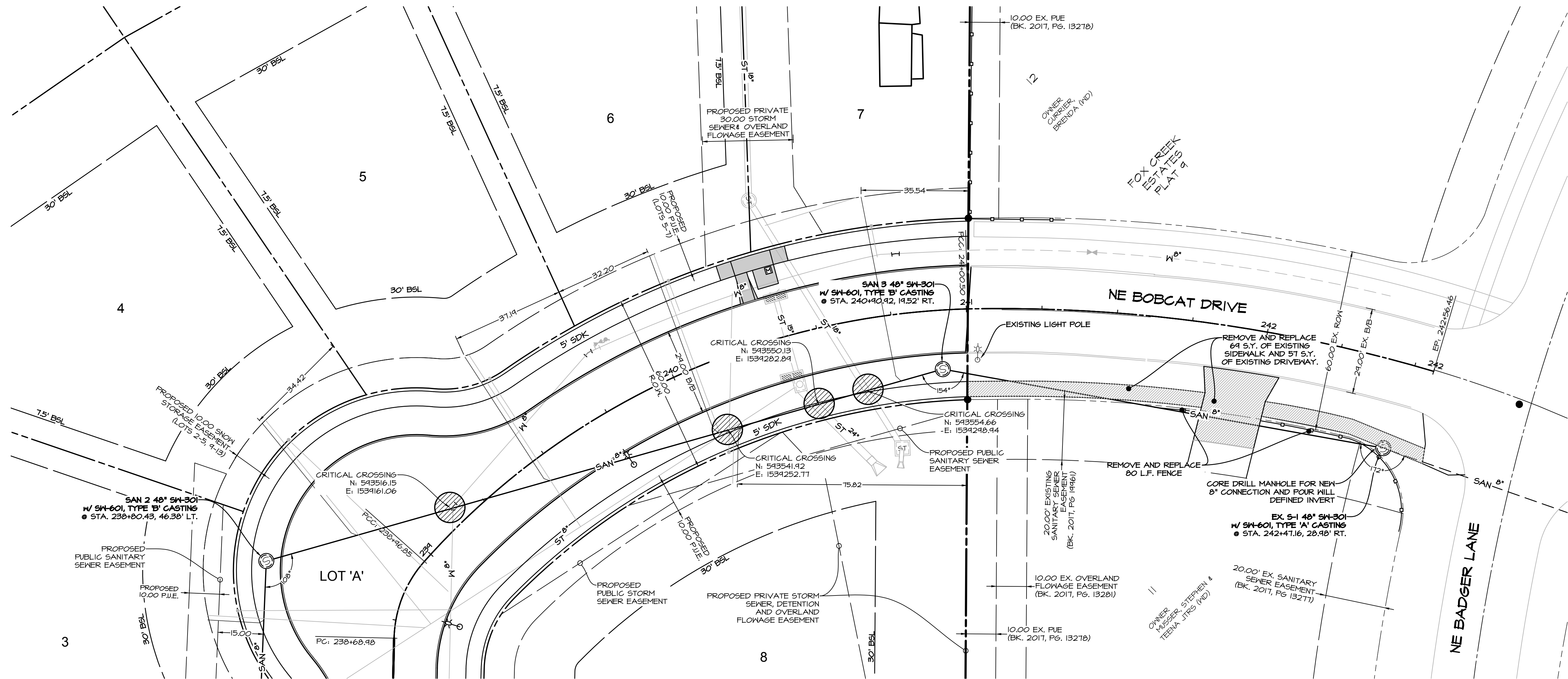


CENTERLINE CURVE DATA					
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD
C100	46°40'23"	250.00'	203.65'	107.86'	198.07'
C101	40°25'31"	34.50'	21.87'	14.54'	27.24'

CENTERLINE CURVE DATA					
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD
C1	43°38'31"	220.00'	167.57'	88.04'	163.55'
C2	43°11'27"	34.50'	26.01'	13.66'	25.40'
C3	22°44'04"	34.50'	13.64'	6.94'	13.60'
C4	24°47'44"	34.50'	14.93'	7.58'	14.81'
C5	62°45'58"	60.50'	66.28'	36.90'	63.01'
C6	51°03'09"	60.50'	53.91'	28.84'	52.14'
C7	44°41'57"	60.50'	47.30'	24.94'	46.11'
C8	46°20'19"	60.50'	48.93'	25.84'	47.81'
C9	65°20'24"	60.50'	64.00'	38.80'	65.32'
C10	4°10'41"	60.50'	4.41'	2.21'	4.41'
C11	46°56'40"	34.50'	28.27'	14.98'	27.48'
C12	18°51'58"	34.50'	11.36'	5.73'	11.31'
C13	22°25'26"	34.50'	13.50'	6.84'	13.42'
C14	58°52'45"	60.50'	62.17'	34.15'	54.47'
C15	55°13'17"	60.50'	58.31'	31.64'	56.08'
C16	21°23'58"	60.50'	22.60'	11.43'	22.47'
C17	40°26'33"	34.50'	24.35'	12.71'	23.85'
C18	5°38'31"	280.00'	27.57'	13.80'	27.56'
C19	12°57'22"	280.00'	63.32'	31.71'	63.18'
C20	14°56'26"	280.00'	73.01'	36.71'	72.81'
C21	10°26'53"	1100.00'	200.54'	100.57'	200.31'



PLOT BY: CODY MEYER AND FULL BLEED D (34.00 X 22.00 INCHES) 2018-01-24 11: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3



SCALE: 1"=20'



ALYVIA - PLAT 1
WAUKESHA, IOWA
SANITARY SEWER PLAN

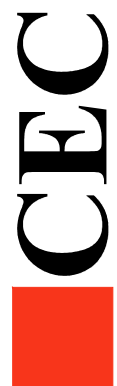
SHEET
4
OF 17

AI0883

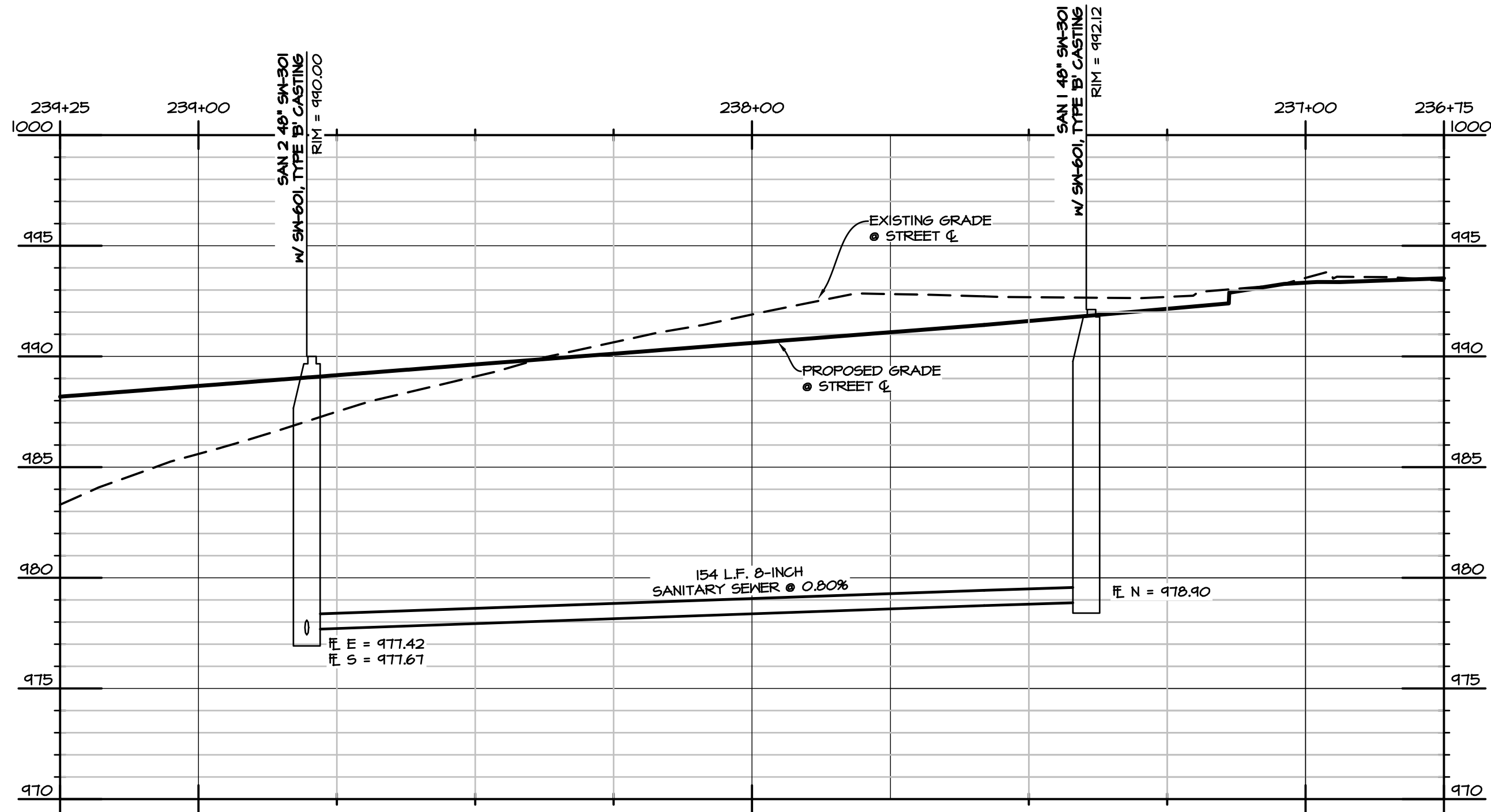
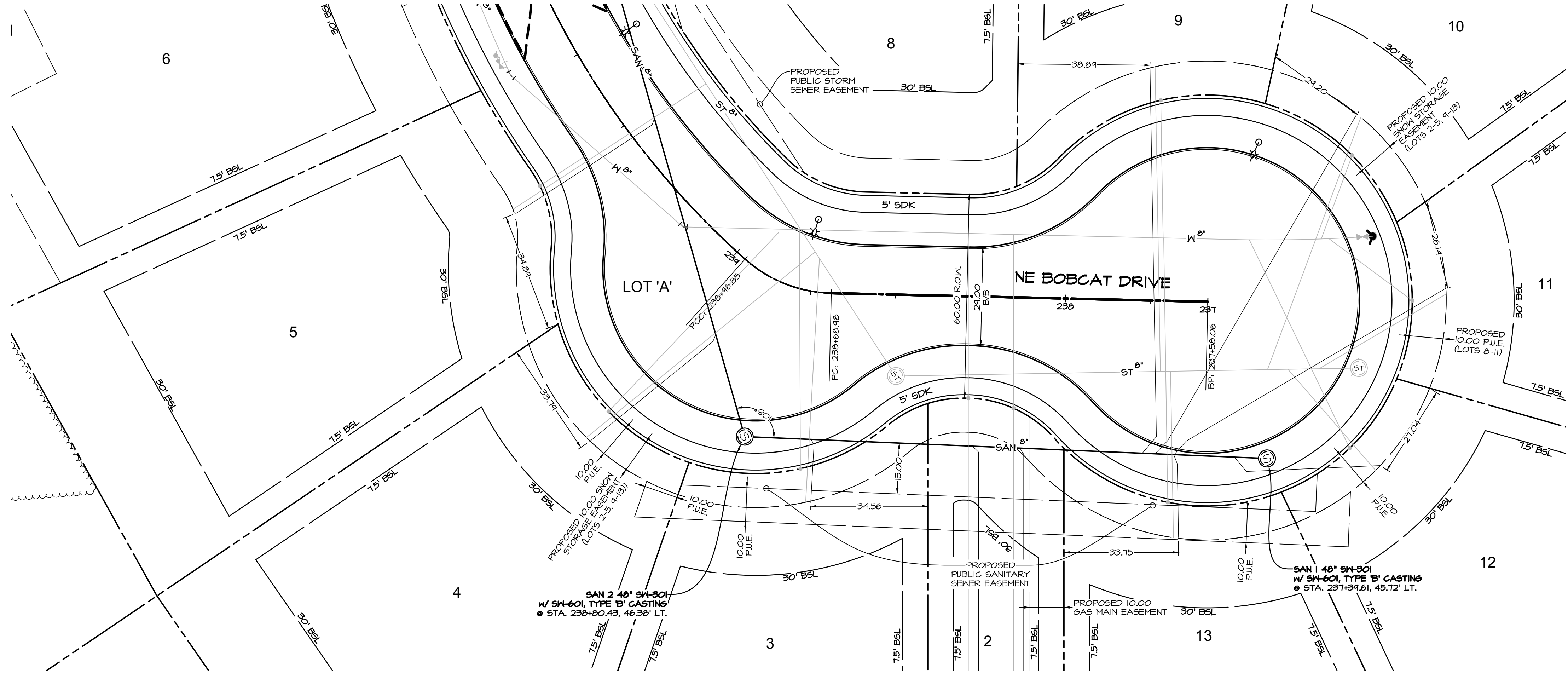
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	01-02-2018 - 2ND SUBMITTAL
DATE OF SURVEY:	06-11-2018 - 1ST SUBMITTAL
DESIGNED BY:	03/14/2018
DRAWN BY:	ARP
	CM

Civil Engineering Consultants, Inc.

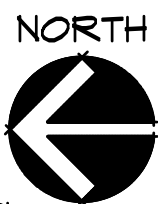
2400 86th Street, Unit 12, Des Moines, Iowa 50322
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PLOT BY: CODY MEYER ANSI FULL BLEED D (34.00 X 22.00 INCHES) 2014-01-24 11 AUTOCAD PDF (GENERAL DOCUMENTATION) PC3



SCALE: 1"=20'

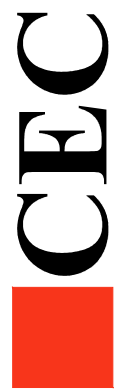


ALYVIA - PLAT 1
WAUKEE, IOWA
SANITARY SEWER PLAN

SHEET
OF 17

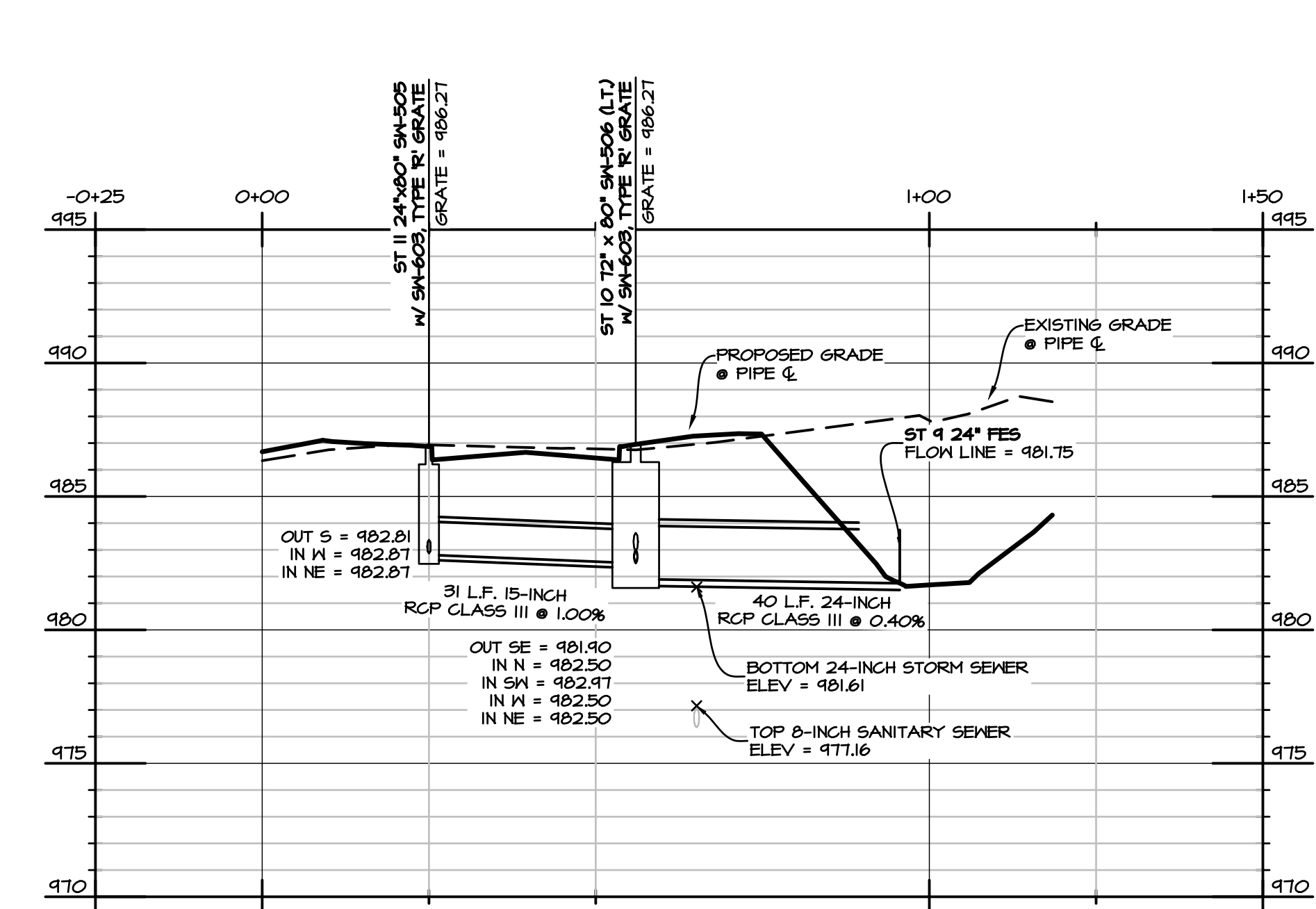
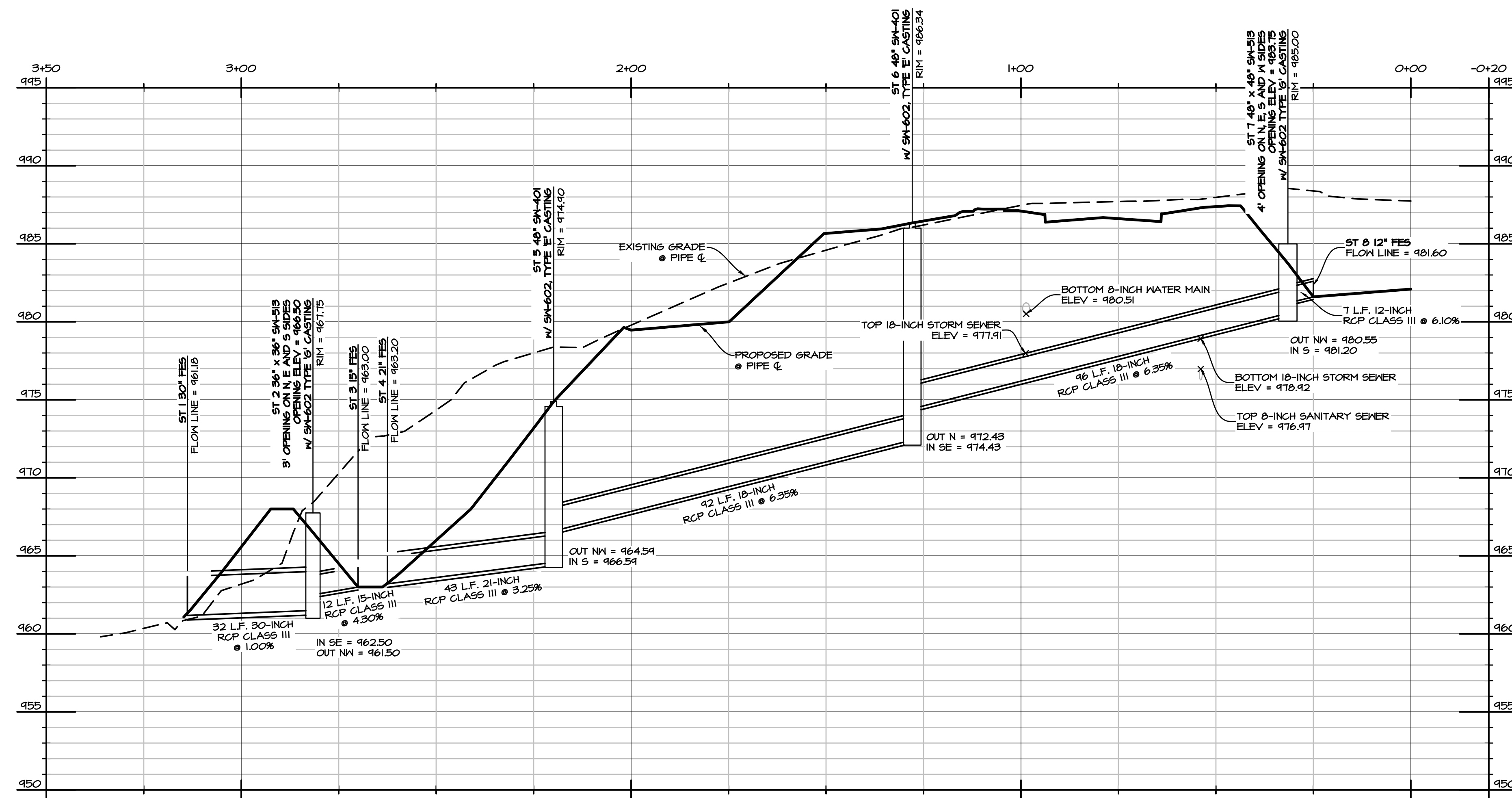
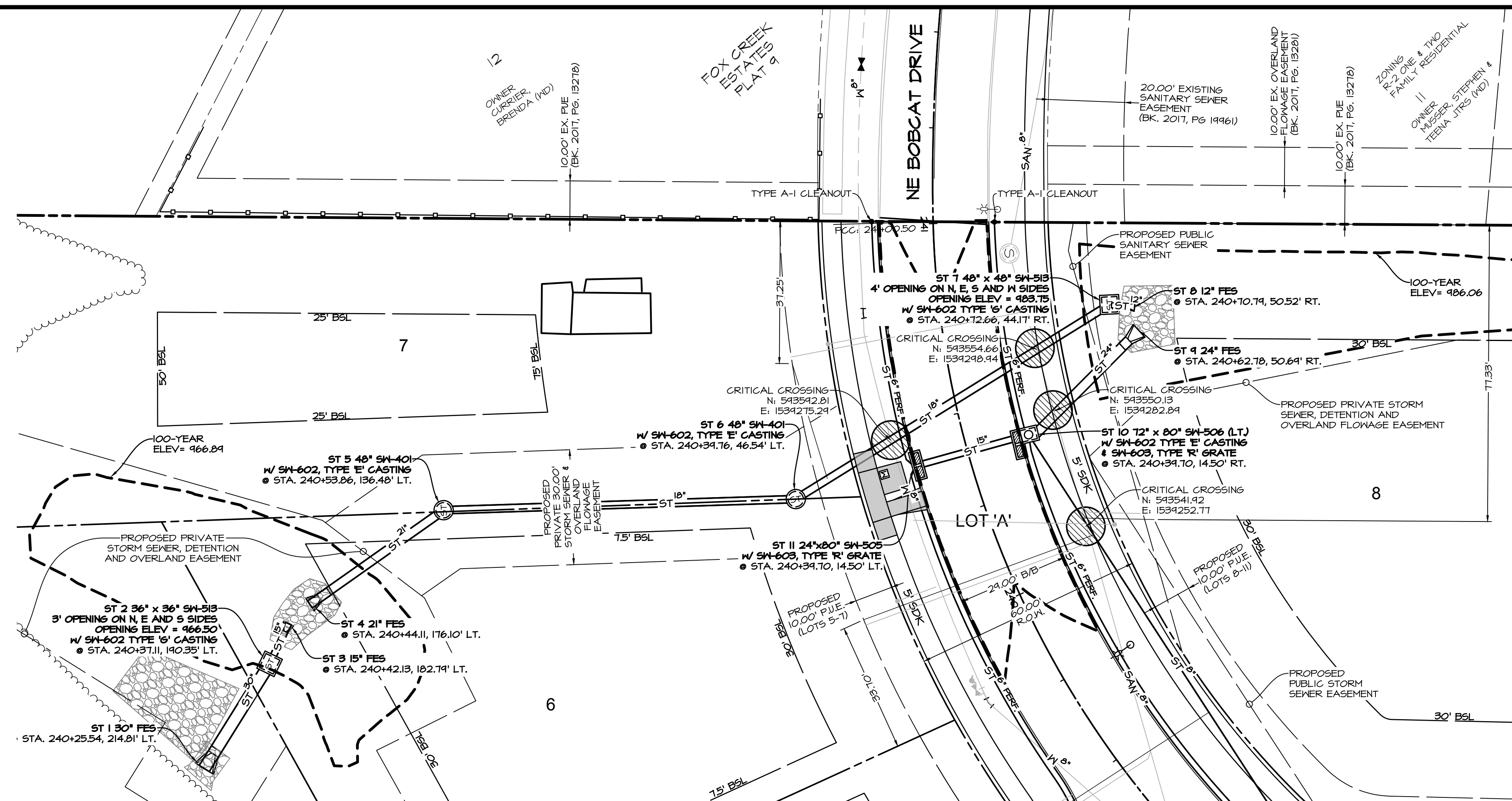
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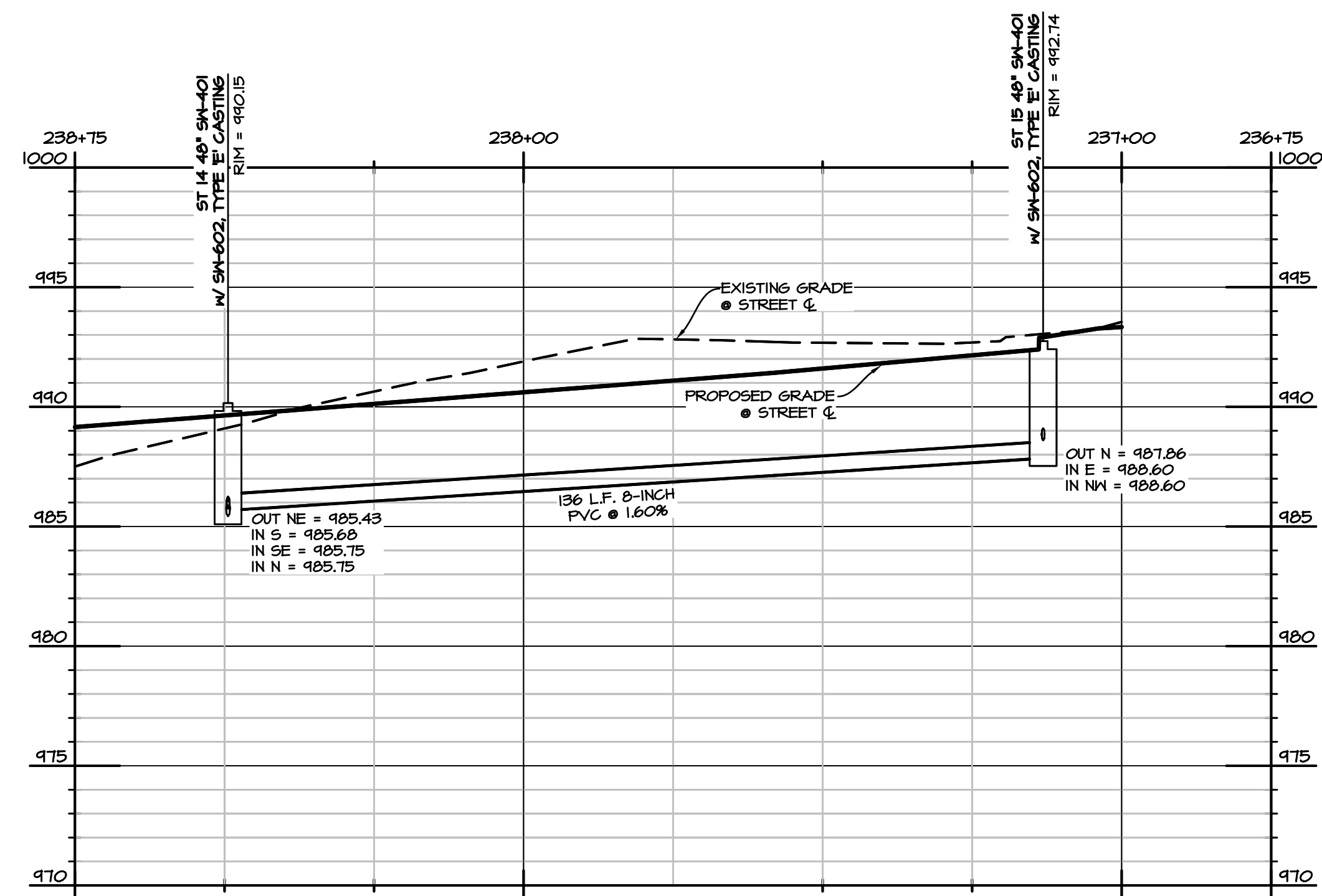
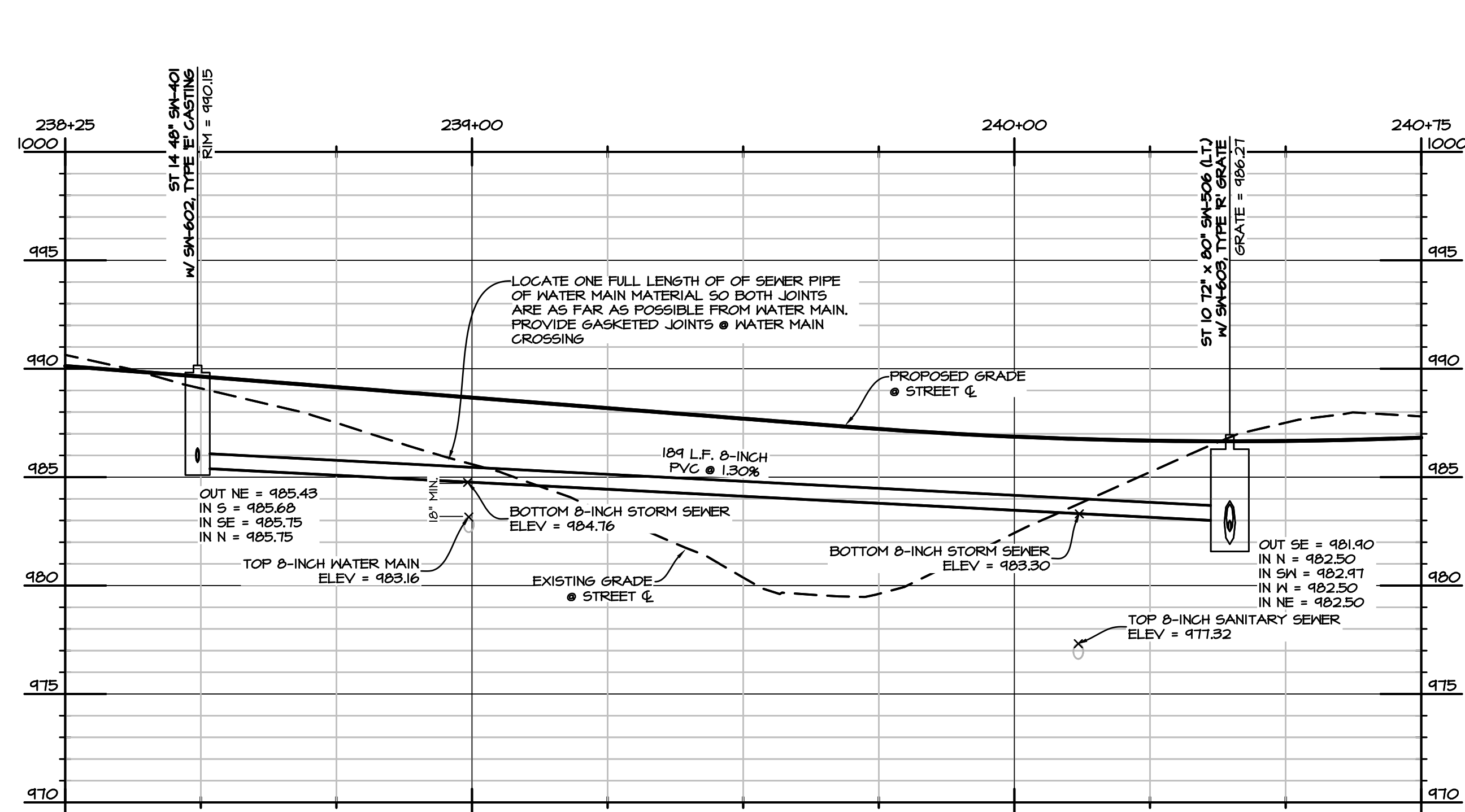
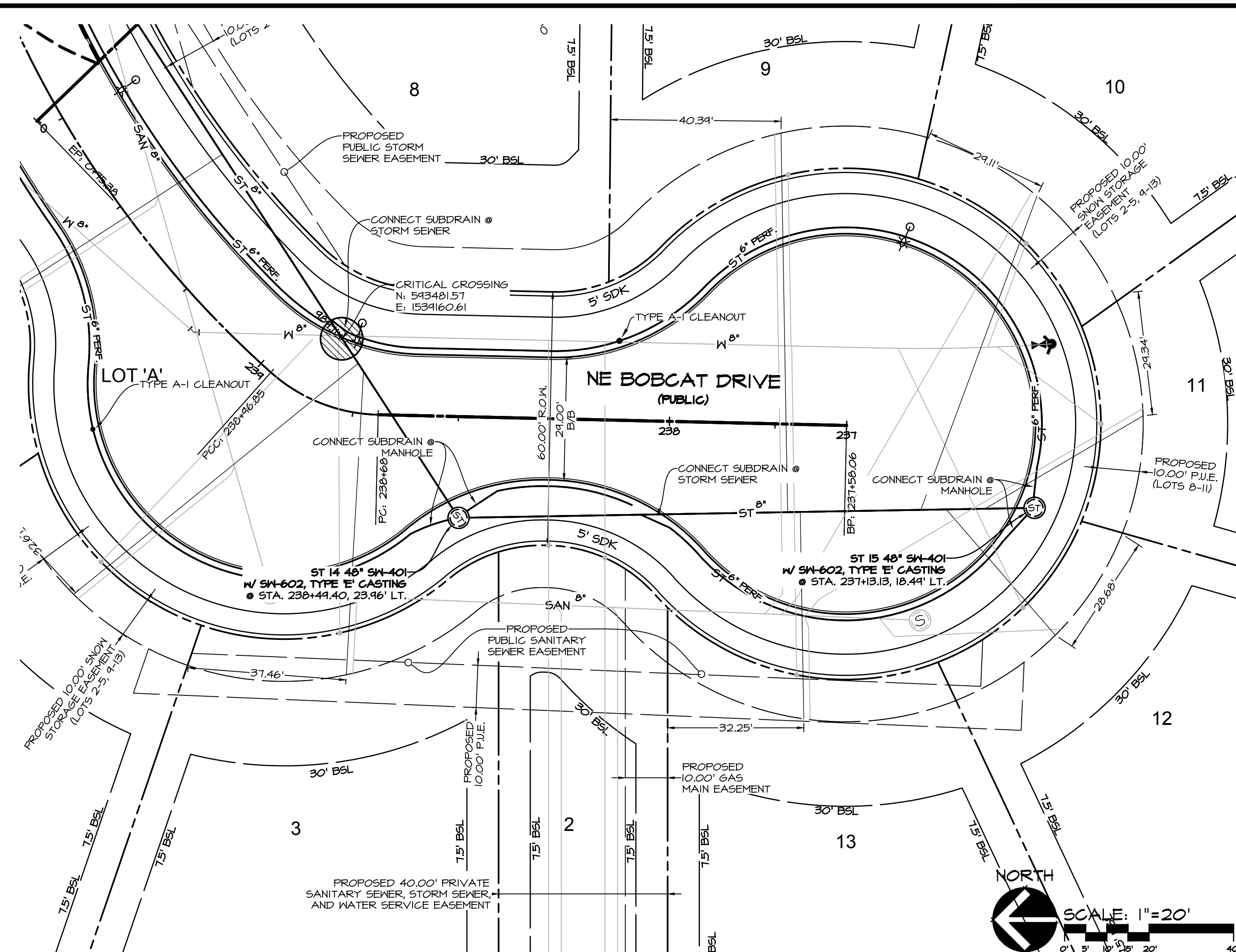
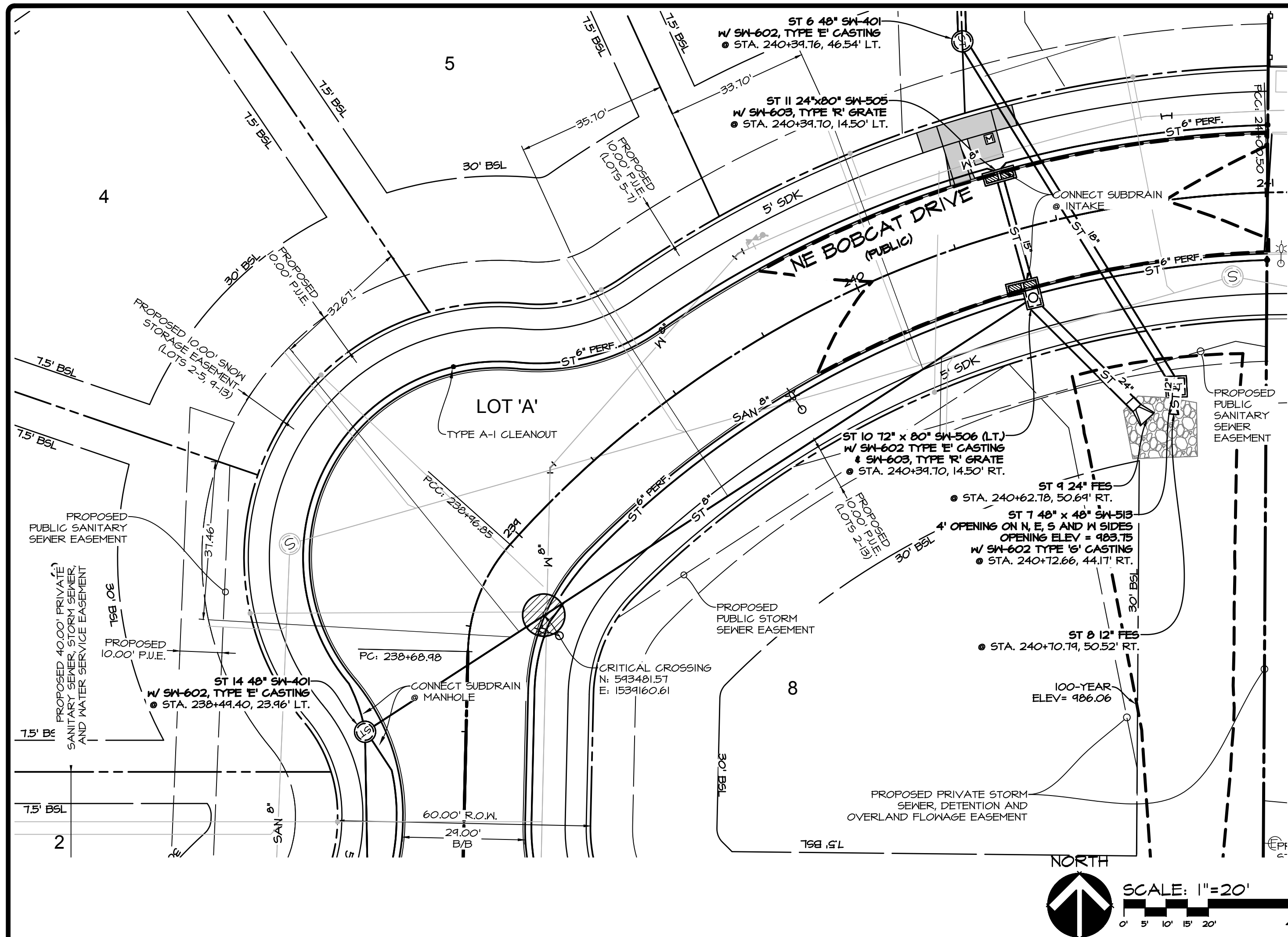
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01-02-2014 - 2ND SUBMITTAL
06-11-2014 - 1ST SUBMITTAL
DATE OF SURVEY: 03/14/2014
DESIGNED BY: ARP
DRAWN BY: CM



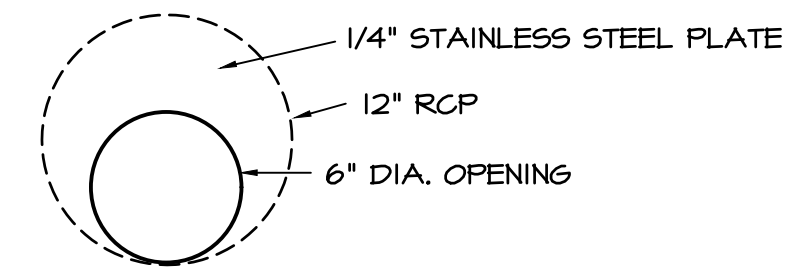
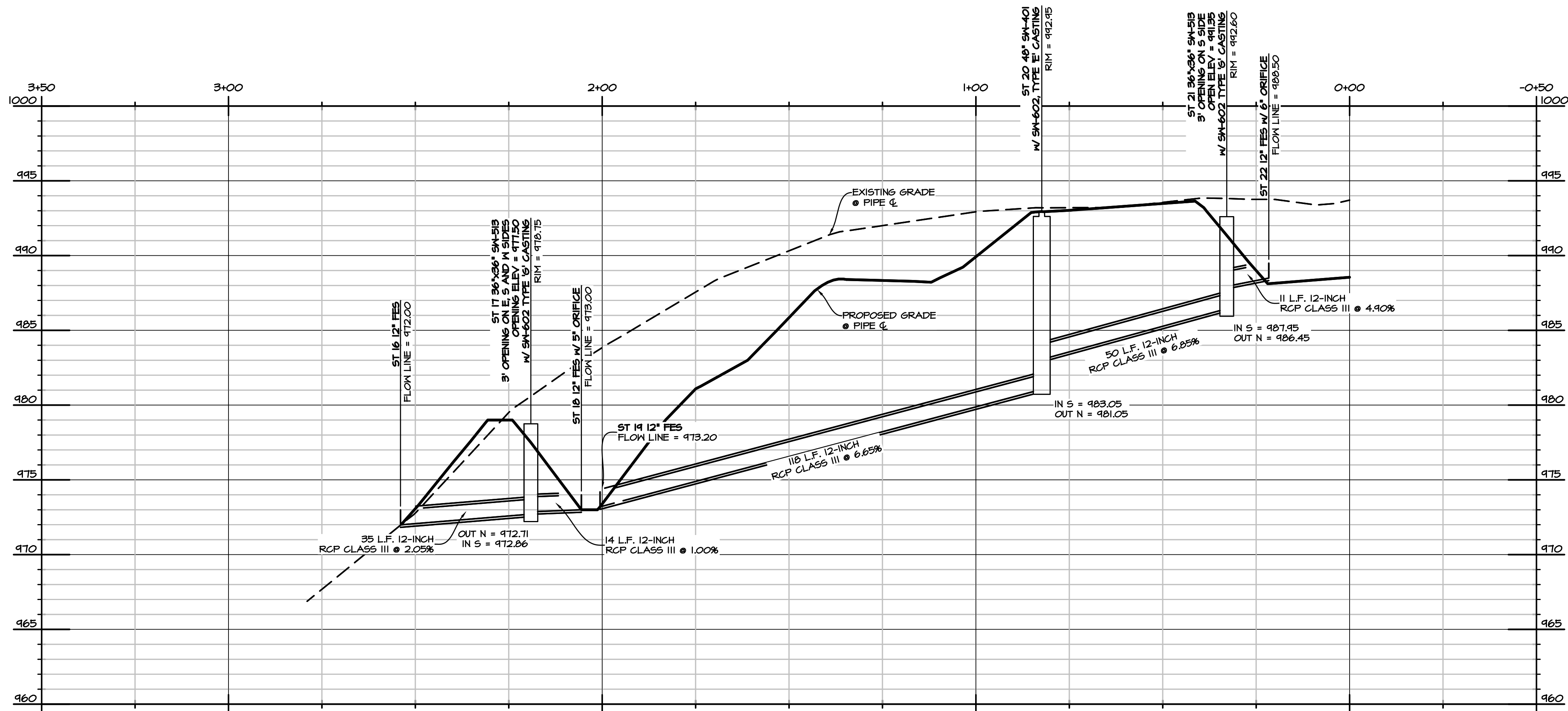
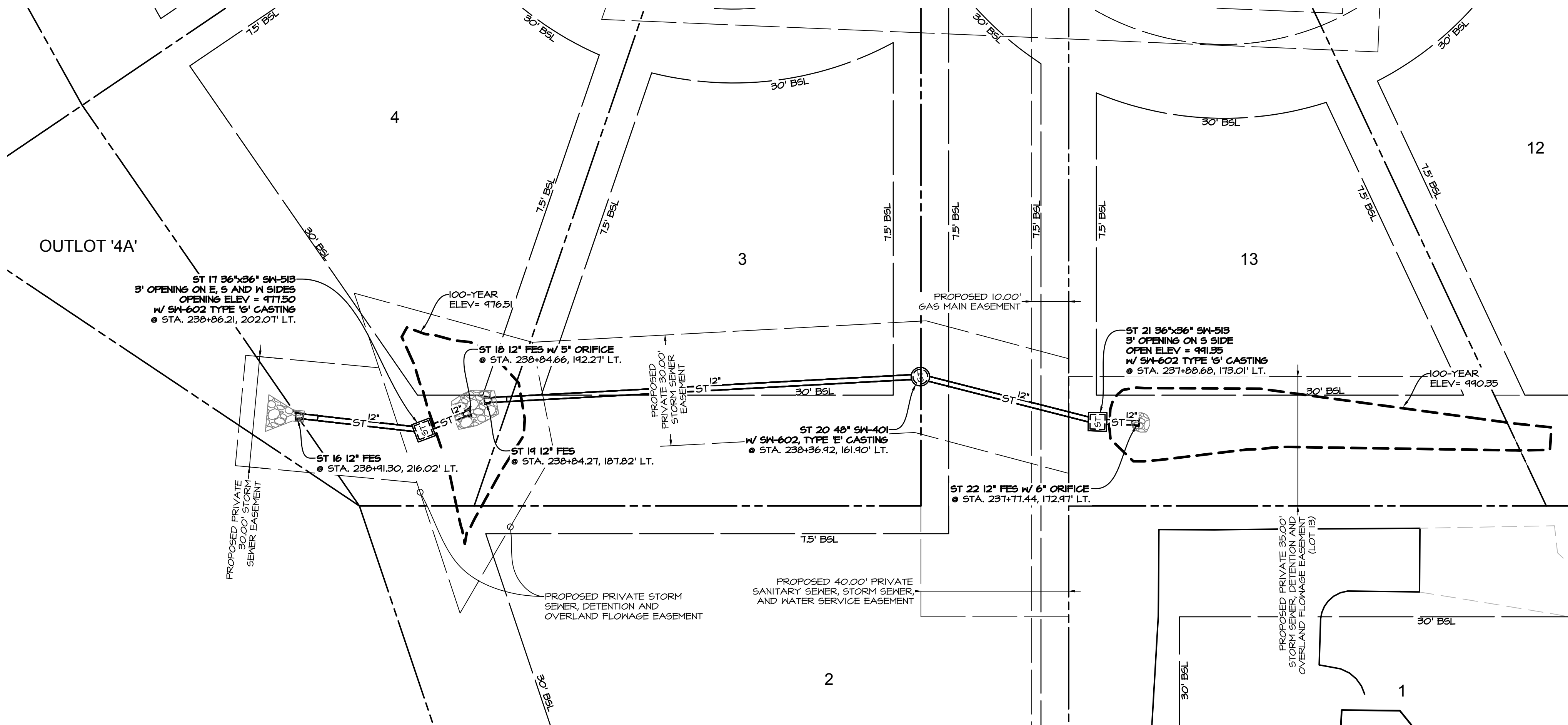
Civil Engineering Consultants, Inc.

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515.276.4884 Fax: 515.276.7084 mail@cecinc.com

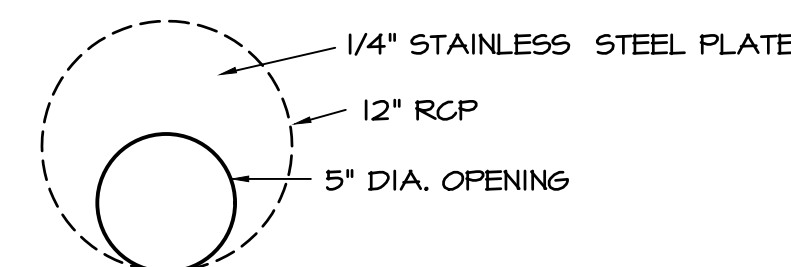




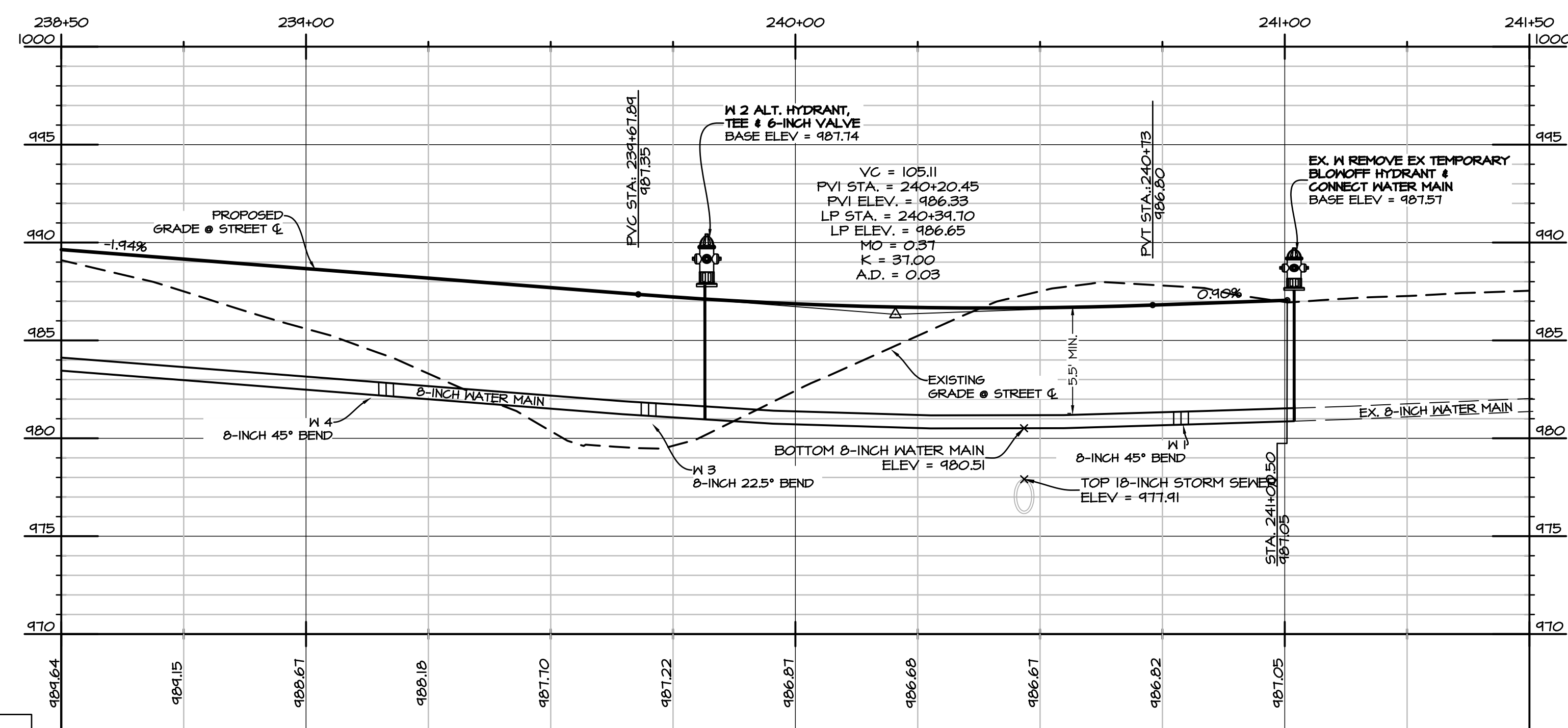
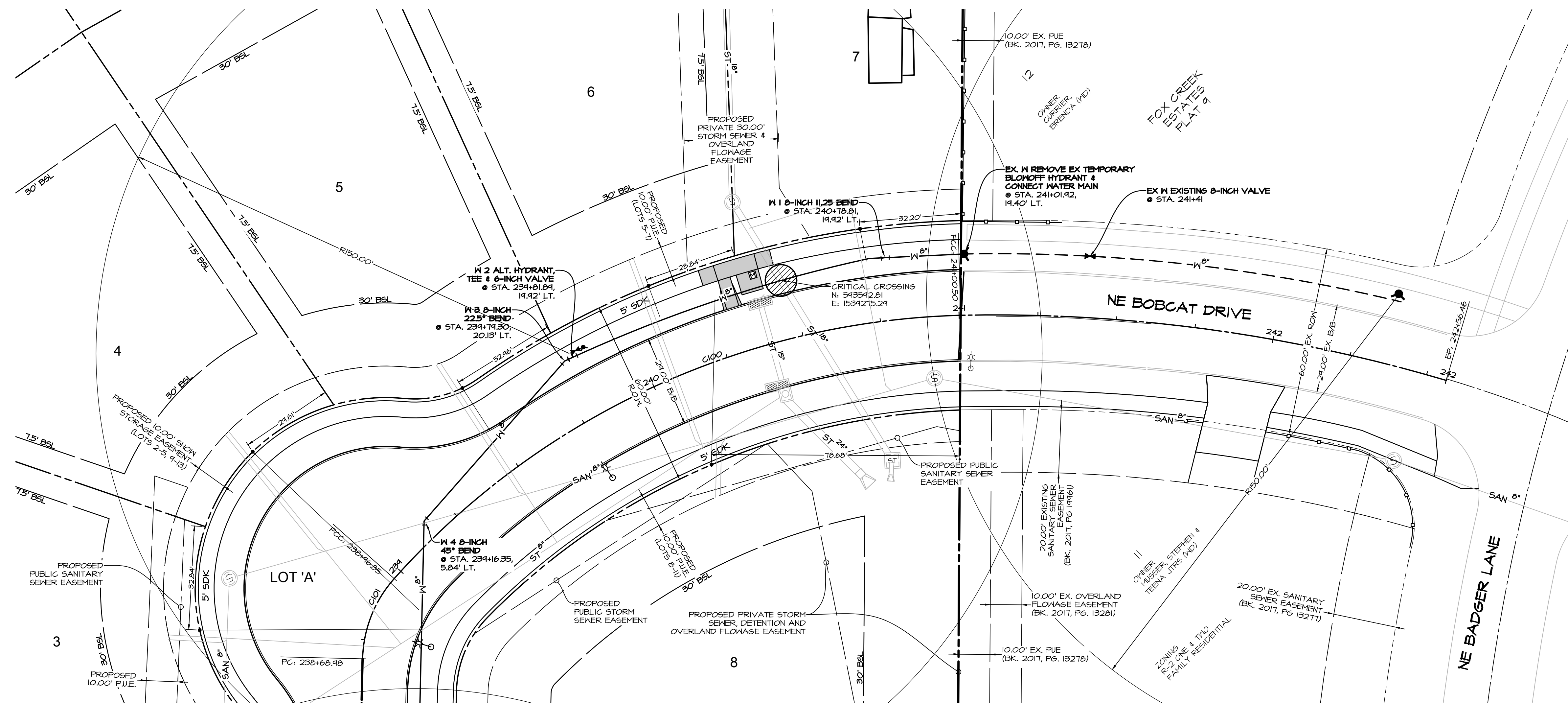
PLOT BY: CODY MEYER AND/ FULL BLEED D (34.00 X 22.00 INCHES) 2019-07-24 11: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3



ORIFICE DETAIL: ST 22
NO SCALE
NOTE: PLACE ORIFICE PLATE IN FIRST SECTION OF PIPE DOWNSTREAM FROM THE INLET F.E.S.



ORIFICE DETAIL: ST 18
NO SCALE
NOTE: PLACE ORIFICE PLATE IN FIRST SECTION OF PIPE DOWNSTREAM FROM THE INLET F.E.S.

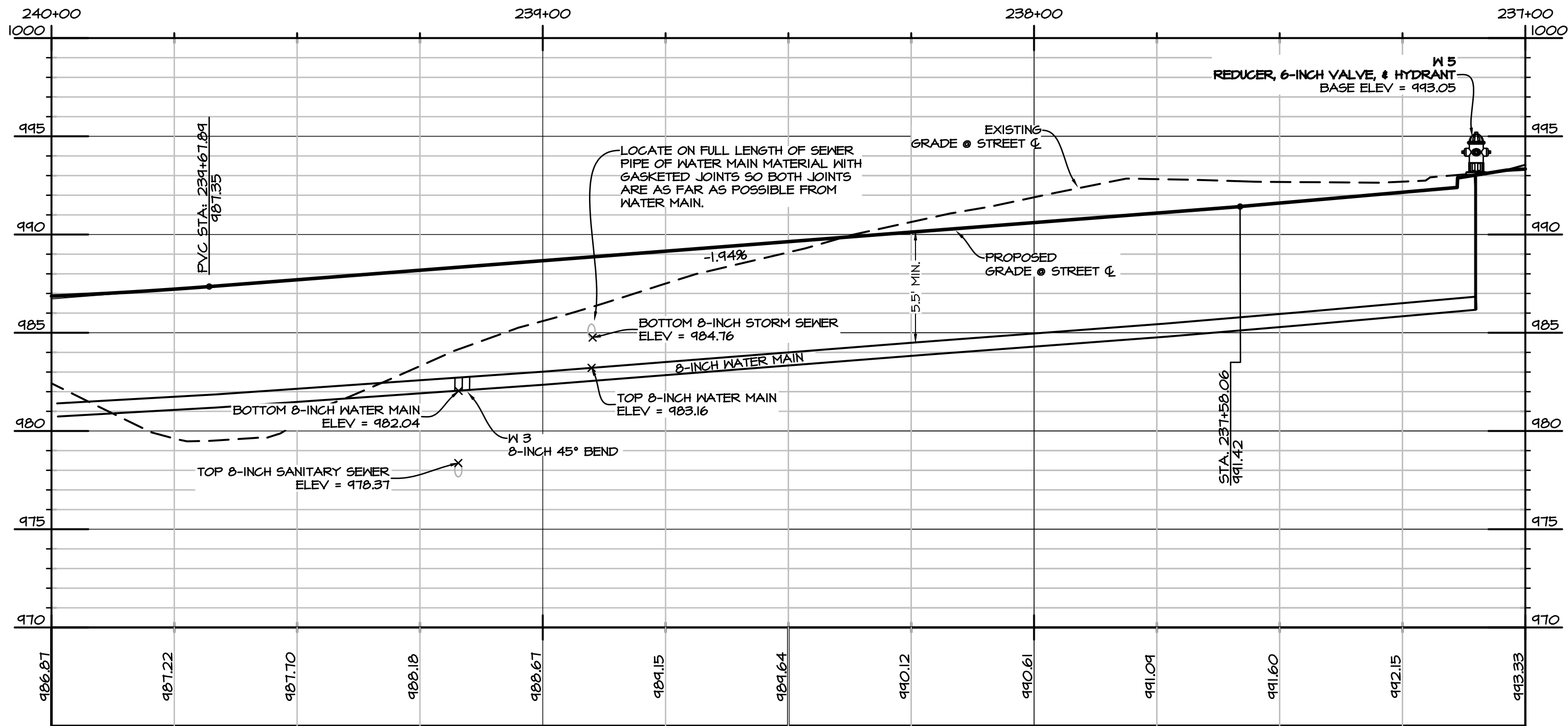
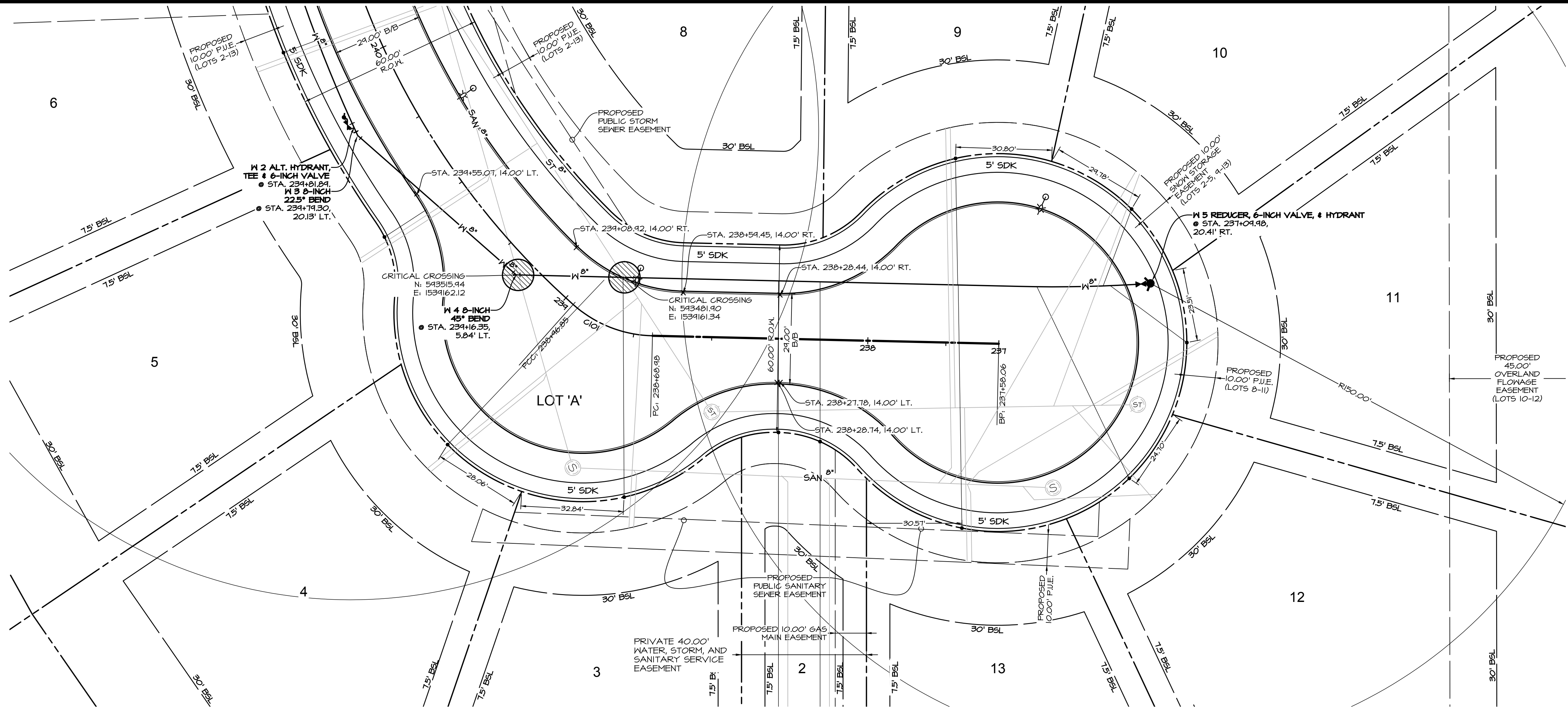


CENTERLINE CURVE DATA						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CH. BEARING
C101	040°25'31"	39.50'	27.87'	14.54'	27.29'	N21°31'22"E
C100	046°40'22"	250.00'	203.65'	107.86'	198.06'	N65°04'18"E



PLOT BY: CODY MEYER AND/ FULL BLEED D (34.00 X 22.00 INCHES) 2019-07-24 11: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3

CENTERLINE CURVE DATA						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CH. BEARING
C101	040°25'31"	39.50'	27.87'	14.54'	27.29'	N21°31'22"E



SCALE: 1"=20'



ALYVIA - PLAT 1
WAUKEE, IOWA

WATER MAIN & PAYING PLAN

SHEET
OF 17

AI083

DATE:

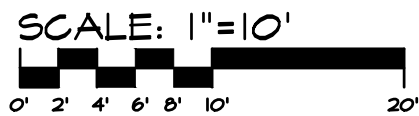
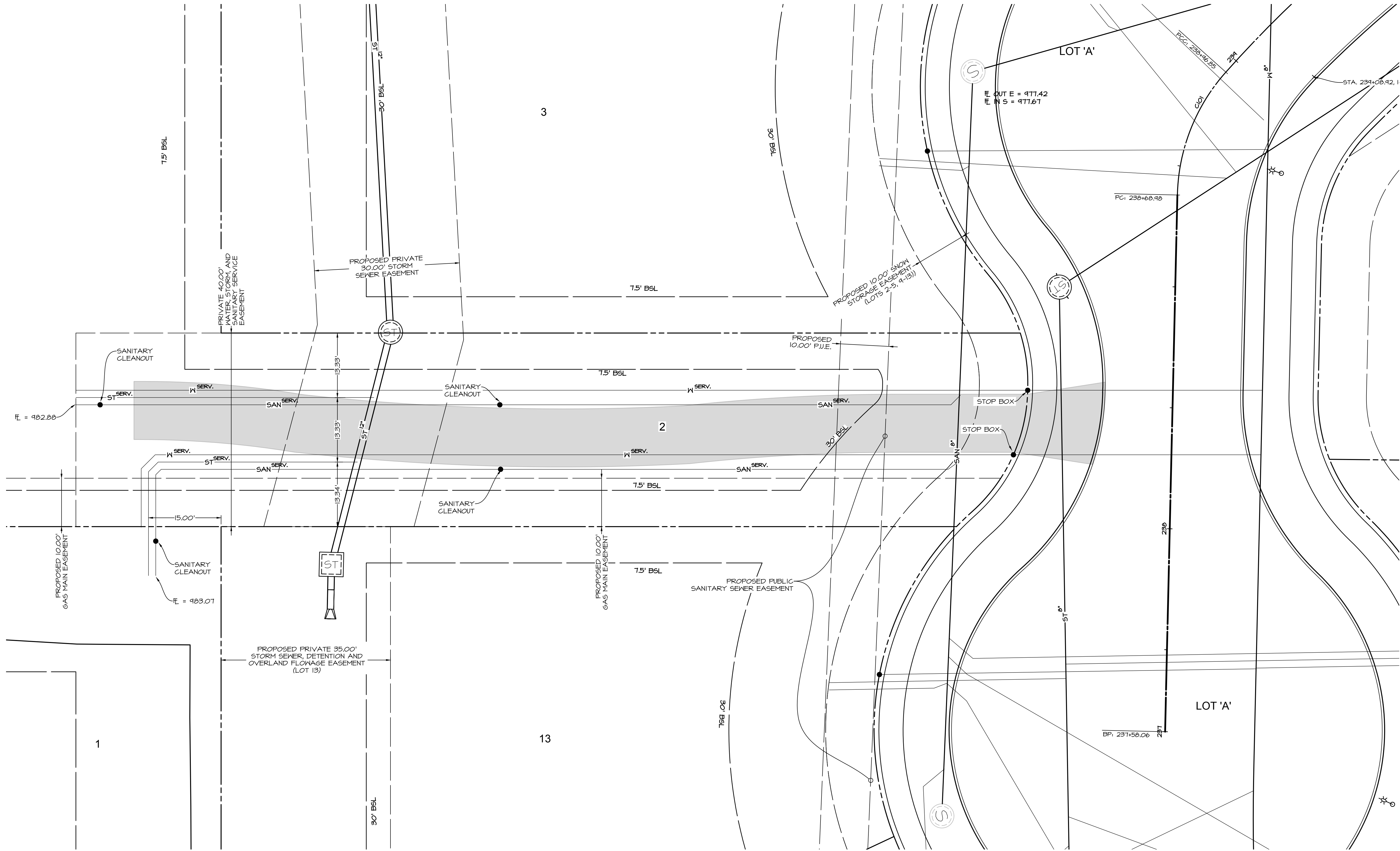
07-24-2019 - 3RD SUBMITTAL
07-02-2019 - 2ND SUBMITTAL
06-11-2019 - 1ST SUBMITTAL
DATE OF SURVEY: 03/14/2019
DESIGNED BY: ARP
DRAWN BY: CM

Civil Engineering Consultants, Inc.



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ALYVIA - PLAT 1
WAUKEE, IOWA

LOT 1 & 2 SERVICE DETAIL

SHEET
OF 17

AI0883

DATE:

01-24-2019 - 3RD SUBMITTAL

01-02-2019 - 2ND SUBMITTAL

06-11-2019 - 1ST SUBMITTAL

DATE OF SURVEY: 03/14/2019

DESIGNED BY: ARP

DRAWN BY: CM

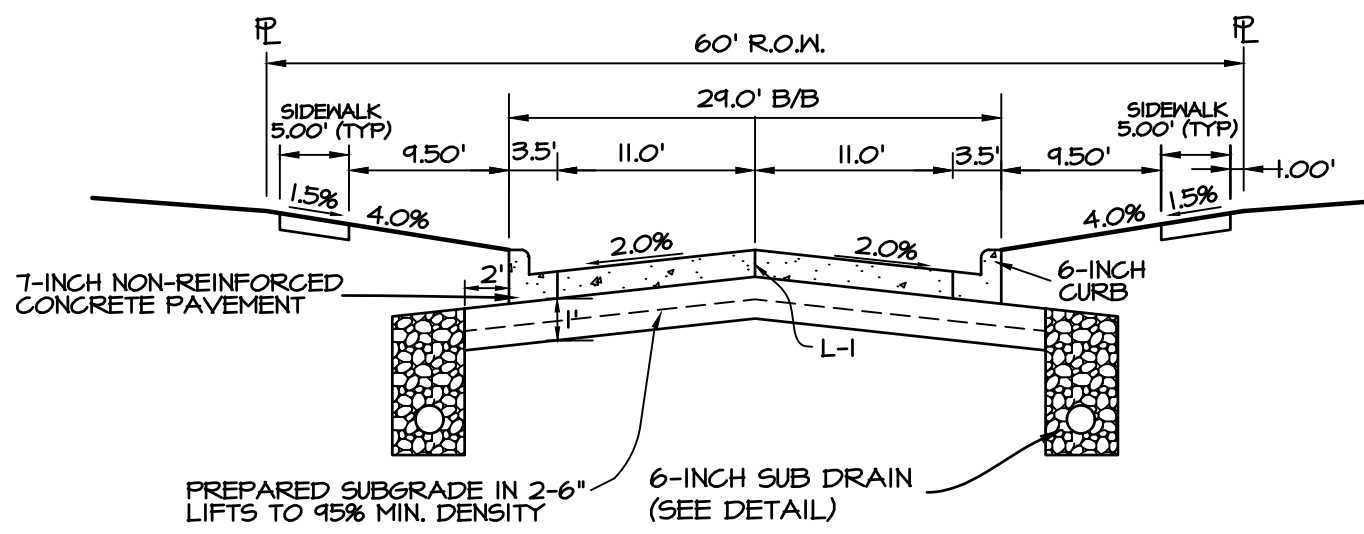
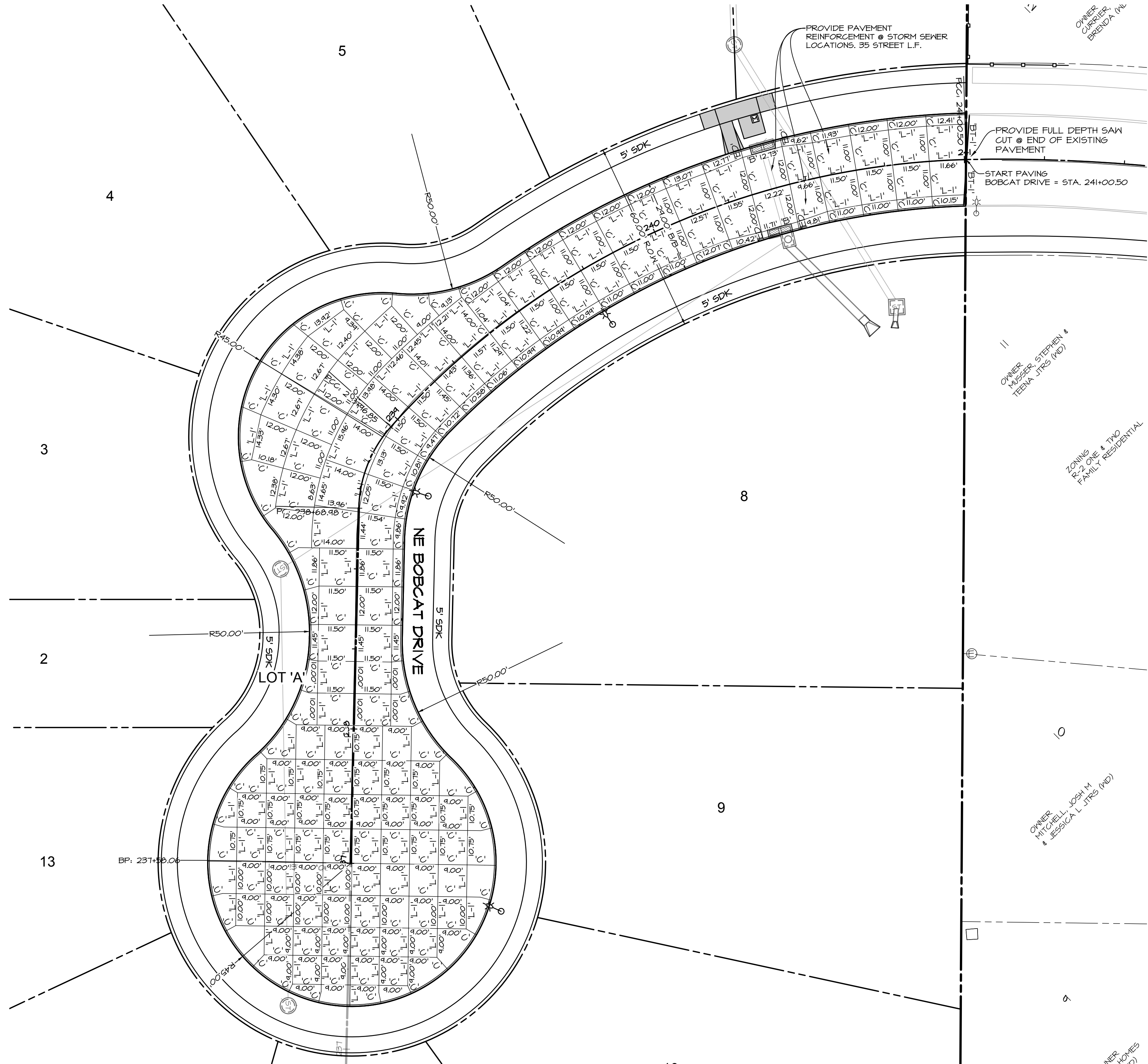


CEC

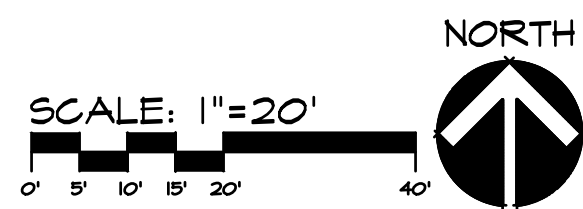
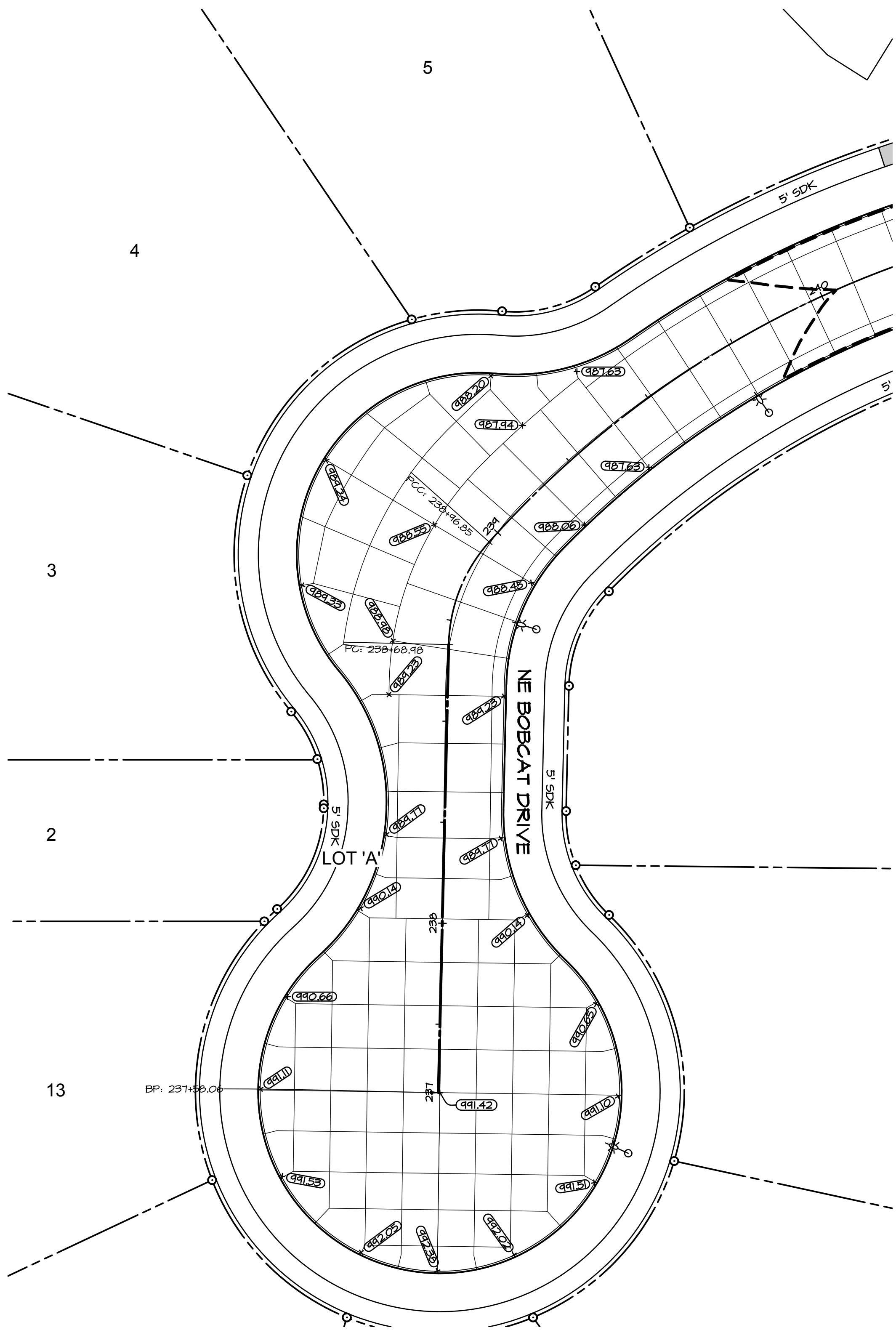
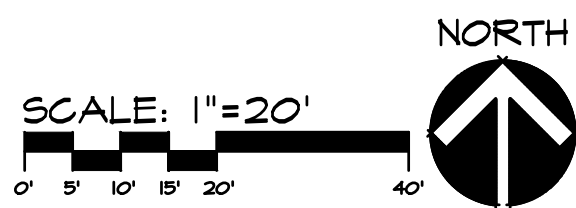
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TYPICAL 29' B/B CROSS SECTION
NO SCALE



ALYVIA - PLAT 1
MAUKEE, IOWA

SHEET
17

A1883

PAVEMENT DETAILS

DATE:	07-24-2019 - 3RD SUBMITTAL
	07-02-2019 - 2ND SUBMITTAL
	06-11-2019 - 1ST SUBMITTAL
DATE OF SURVEY:	03/14/2019
DESIGNED BY:	ARP
DRAWN BY:	CM



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PLOT BY: CODY MEYER AND FULL BLEED D (84.00 X 22.00 INCHES) 2019-07-24 11: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3



SCALE: 1"=50'
0' 10' 20' 30' 40' 50' 100'

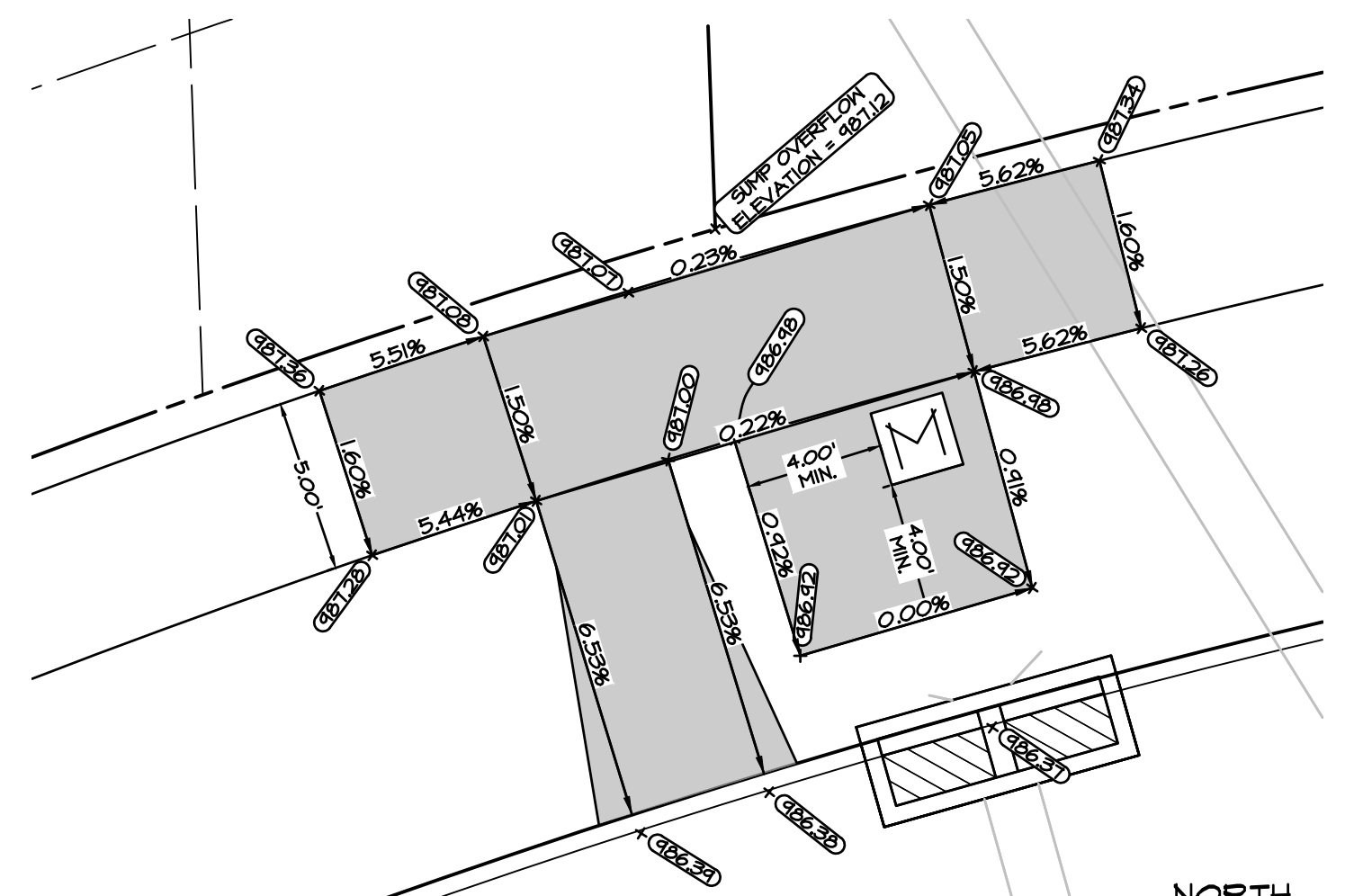


ELEVATIONS		
LOT NUMBER	MINIMUM BASEMENT ELEVATION (M.B.E.)	M.B.E. NOTES:
3	981.60	CONTRACTOR SHALL VERIFY SERVICE STUB FLOWLINE ELEVATION PRIOR TO HOME CONSTRUCTION.
4	981.60	
5	981.30	
6	981.20	
7	980.90	
8	980.30	
9	984.30	
10	984.40	
11	984.00	
12	983.10	
13	982.60	

ELEVATIONS		
LOT NUMBER	MINIMUM PROTECTION ELEVATION (M.P.E.)	MINIMUM OPENING ELEVATION (M.O.E.)
1	994.75	REFER TO THE SPOT ELEVATIONS AND CONTOURS SHOWN. OPENINGS SHOULD BE A MINIMUM OF ONE FOOT HIGHER THAN THE ADJACENT GRADE AT THE FRONT OR SIDE YARD ON THE LOT LINE.
2	980.00	
3	980.00	
4	980.00	
5	969.00	
6	969.00	
7	969.00	
8	988.50	
9	989.00	
10	993.00	
11	995.00	
12	994.75	
13	994.75	

ELEVATION NOTES:

- M.P.E. = 1-2' HIGHER THAN THE 100-YEAR ELEVATION OF THE NEAREST SWALE, DRY POND OR FLOODWAY
- M.O.E. = 1' HIGHER THAN THE ADJACENT ELEVATION AT THE FRONT OR SIDE YARD LOT LINE
- ALL BASEMENT FINISH FLOOR ELEVATIONS SHALL BE A MINIMUM OF TWO FEET ABOVE THE FEMA FLOODWAY ELEVATION.
- ALL ELEVATIONS ARE ONLY VALID IF GRADES HAVE BEEN VERIFIED AT THE TIME OF HOME CONSTRUCTION. ANY GRADING CHANGES THAT OCCUR AFTER HOME CONSTRUCTION MAY MAKE ELEVATIONS NULL AND VOID.



DEPRESSED SIDEWALK
& CBU DETAIL



ALYVIA - PLAT 1
MAUKEE, IOWA

GRADING PLAN

SHEET
OF 17

A1883

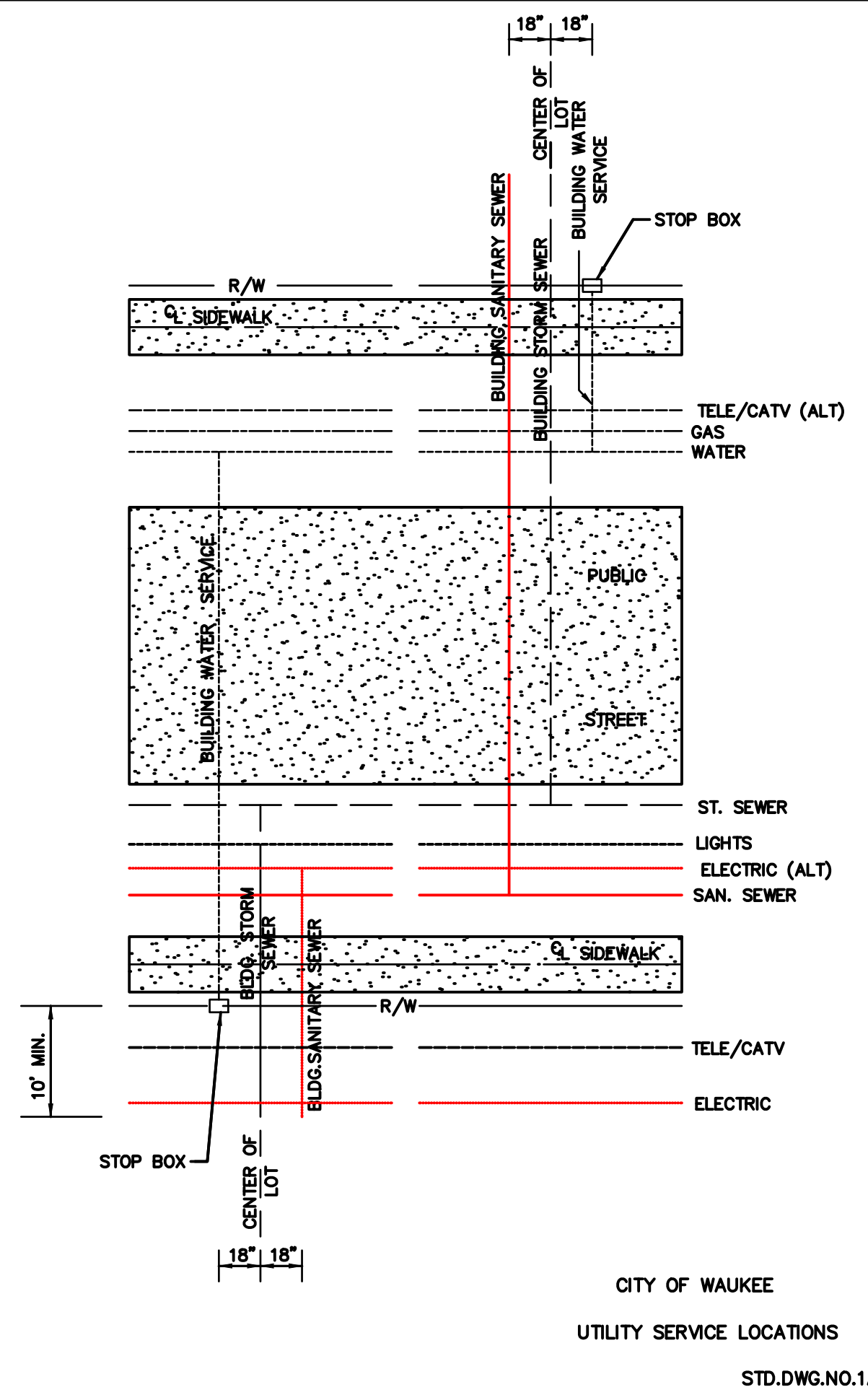
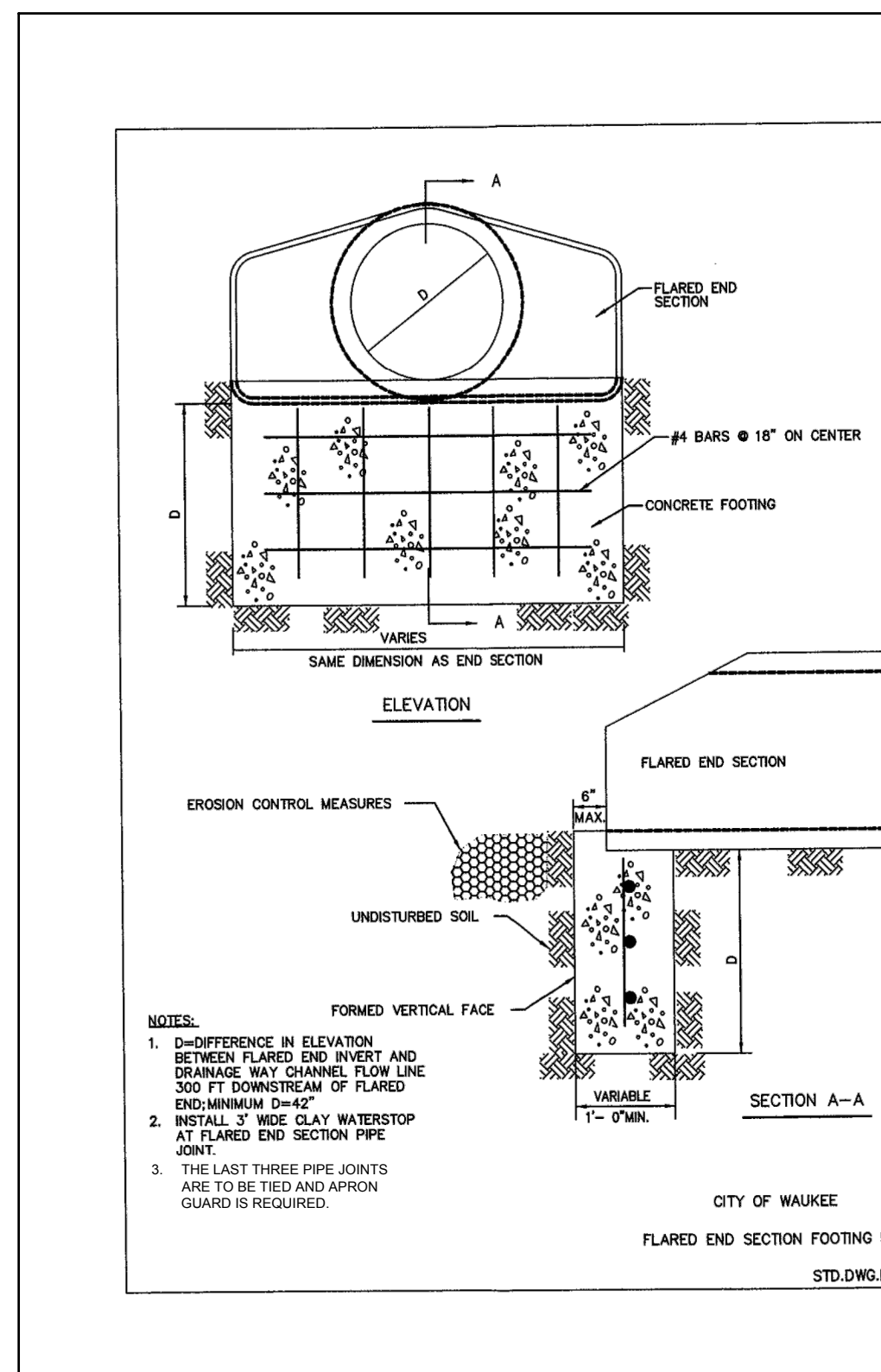
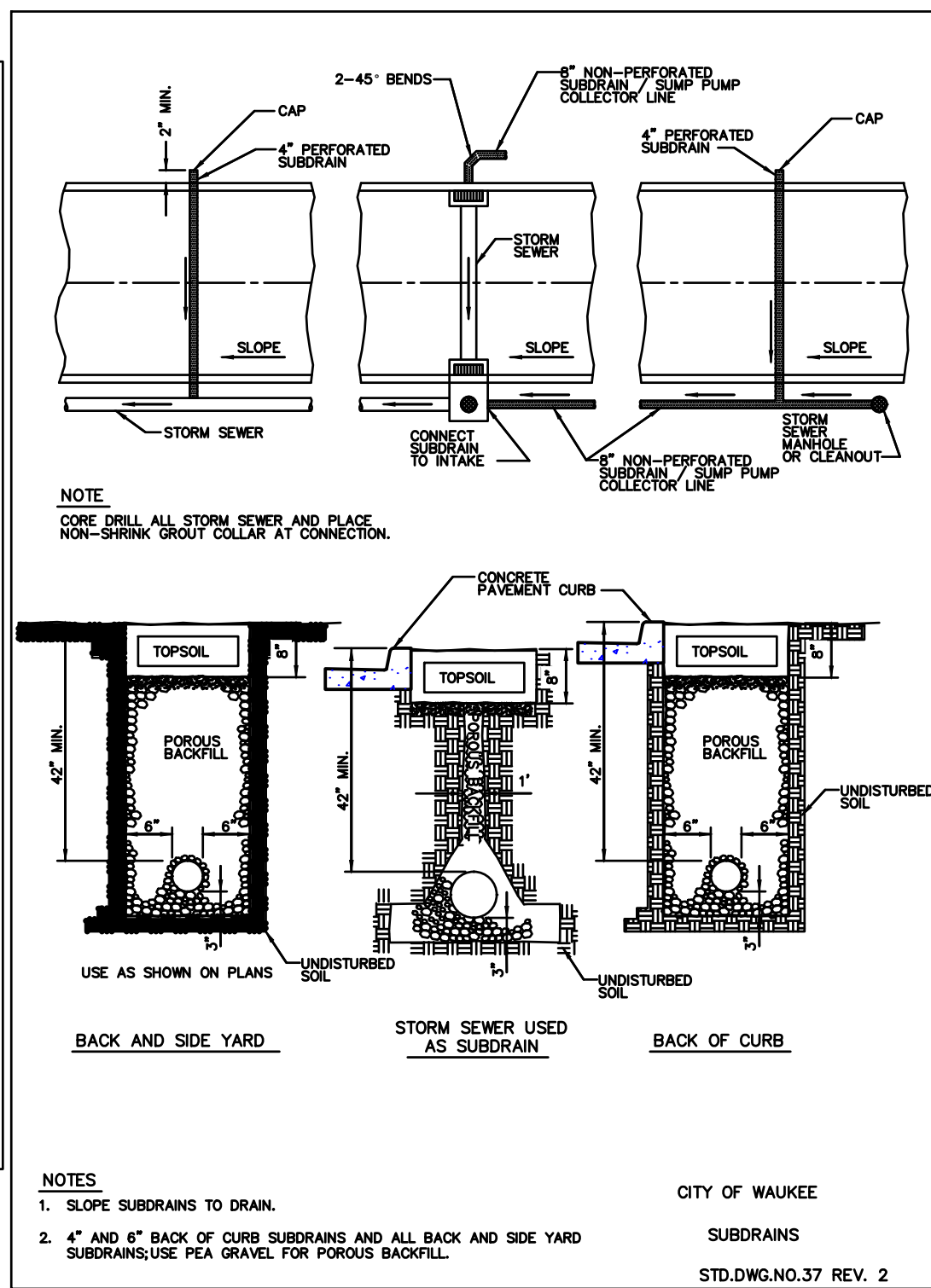
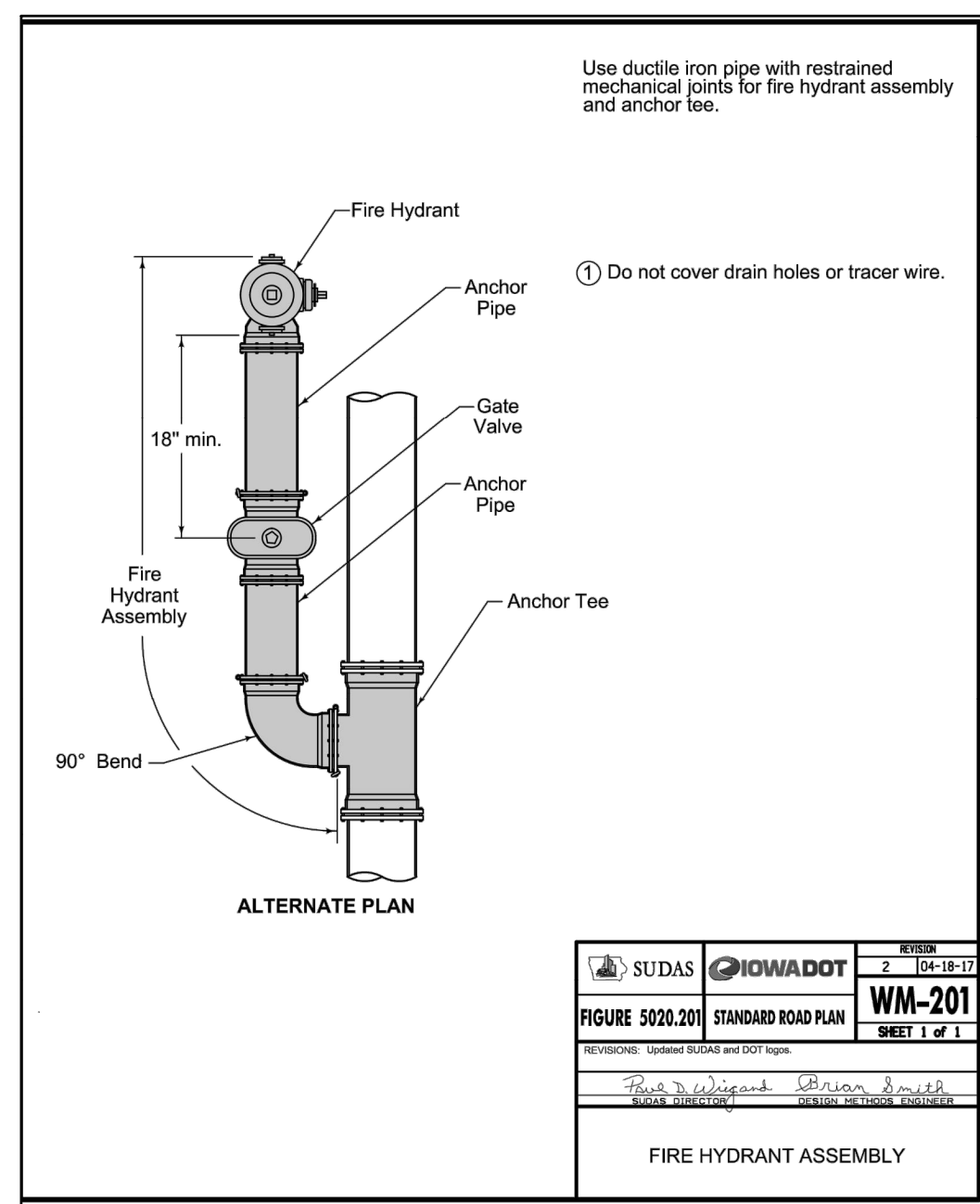
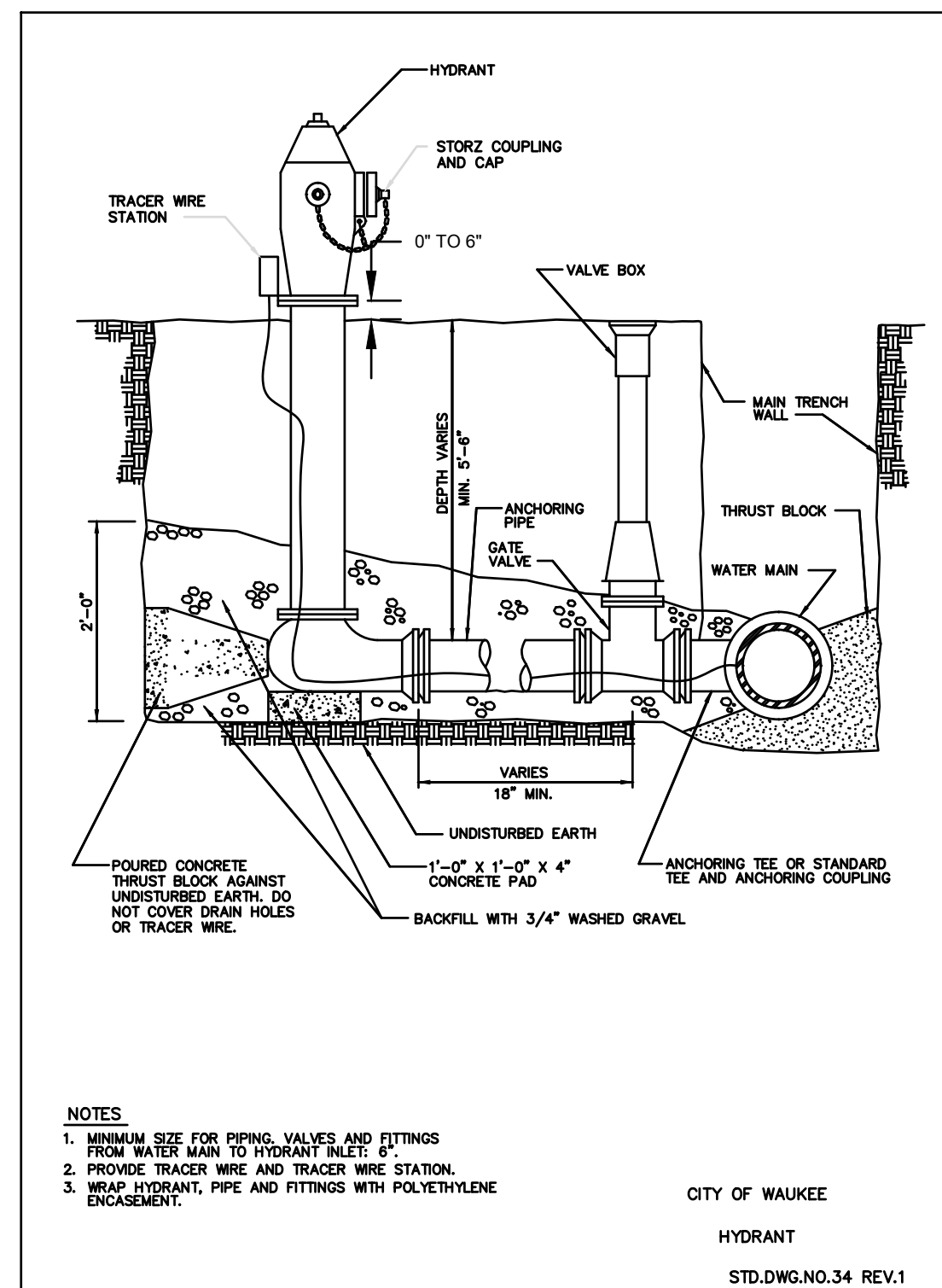
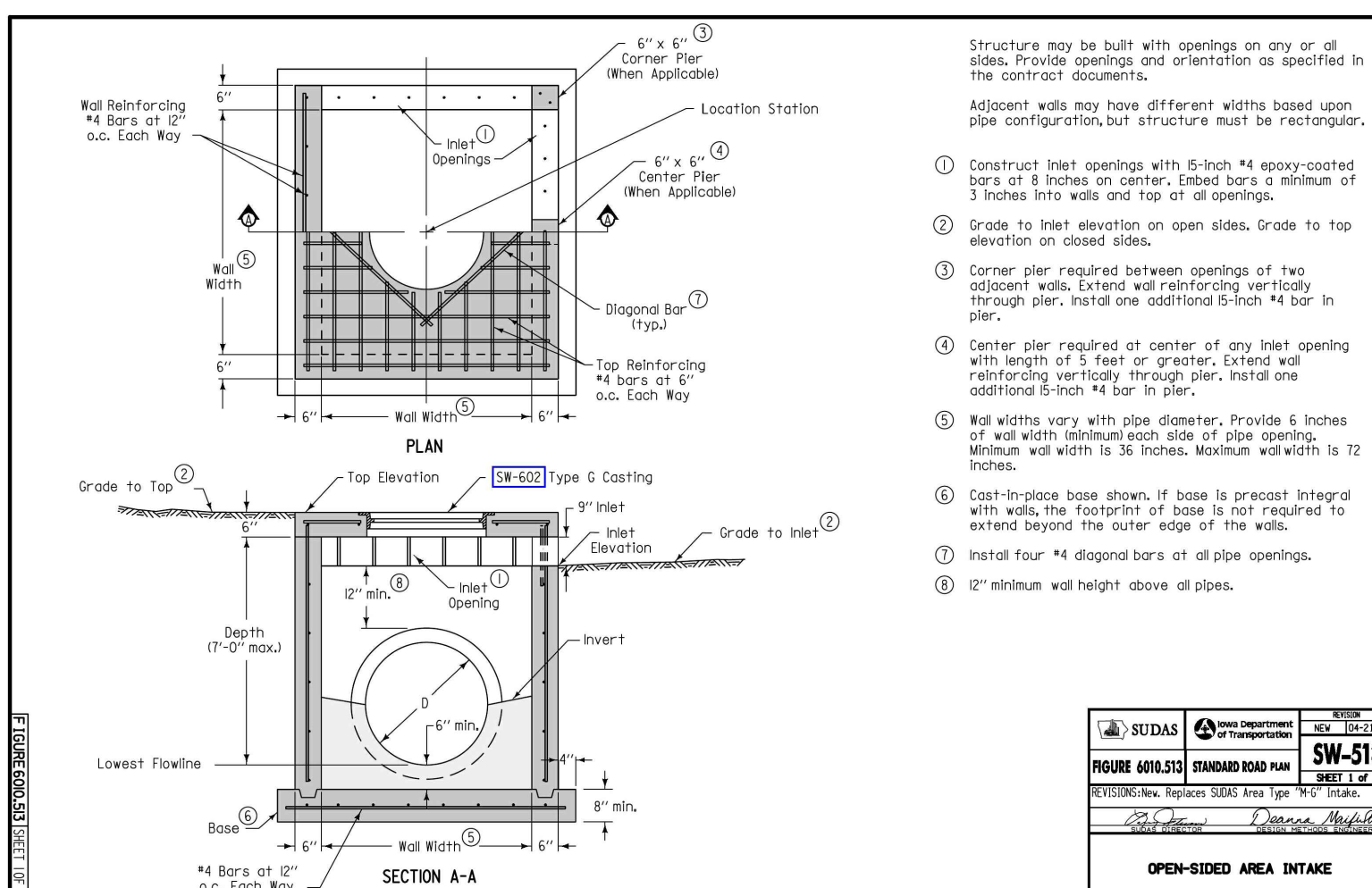
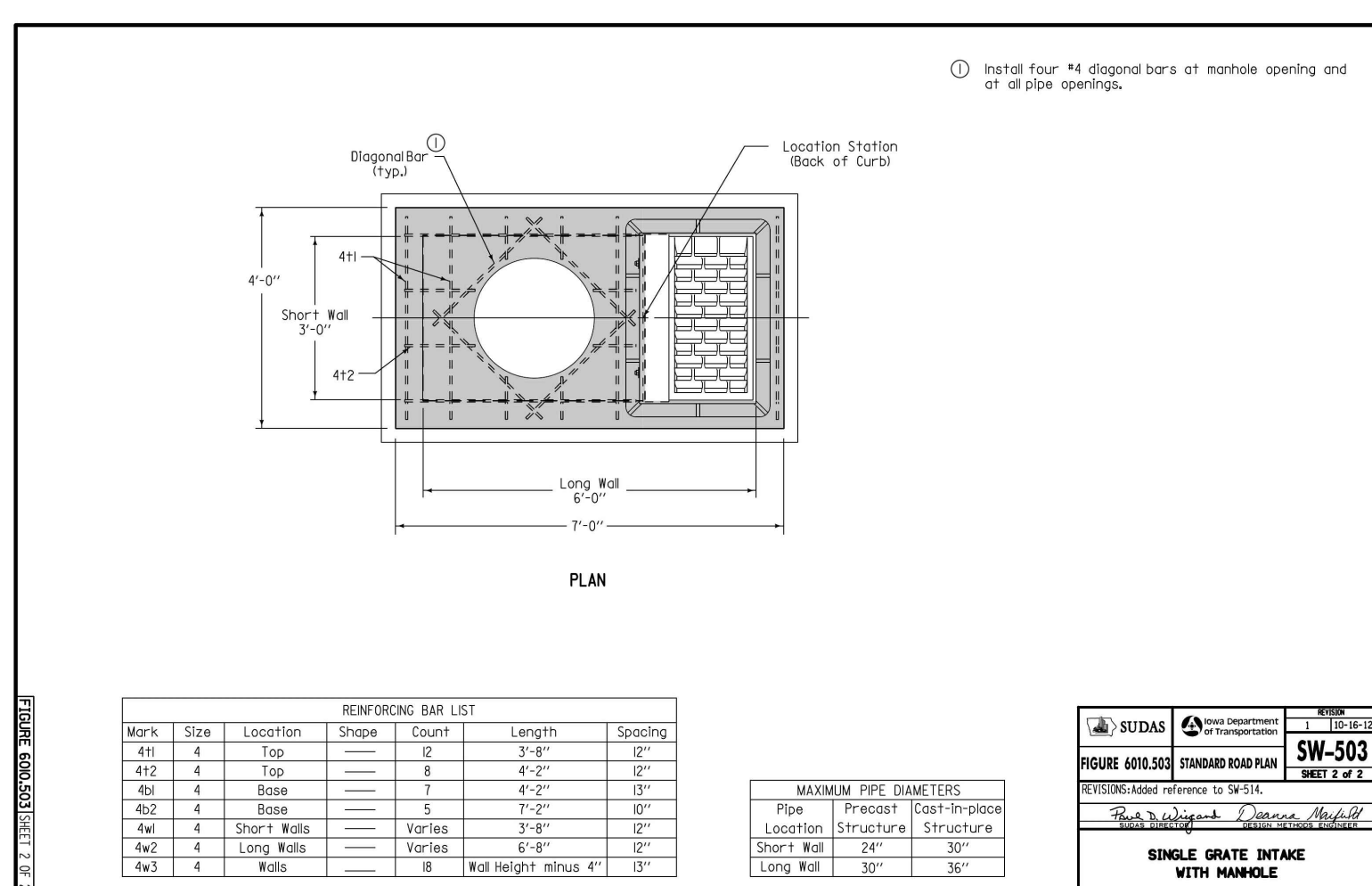
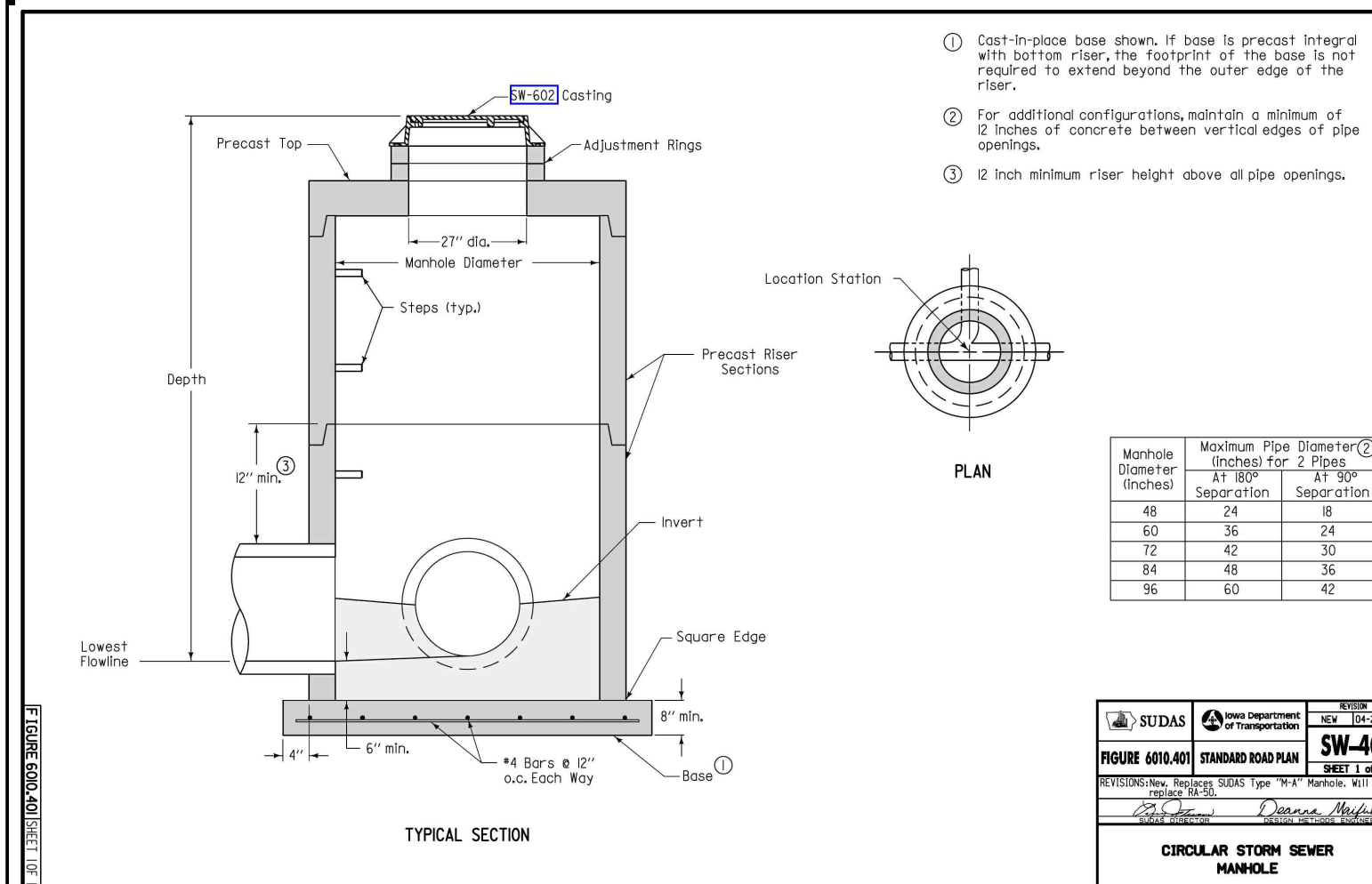
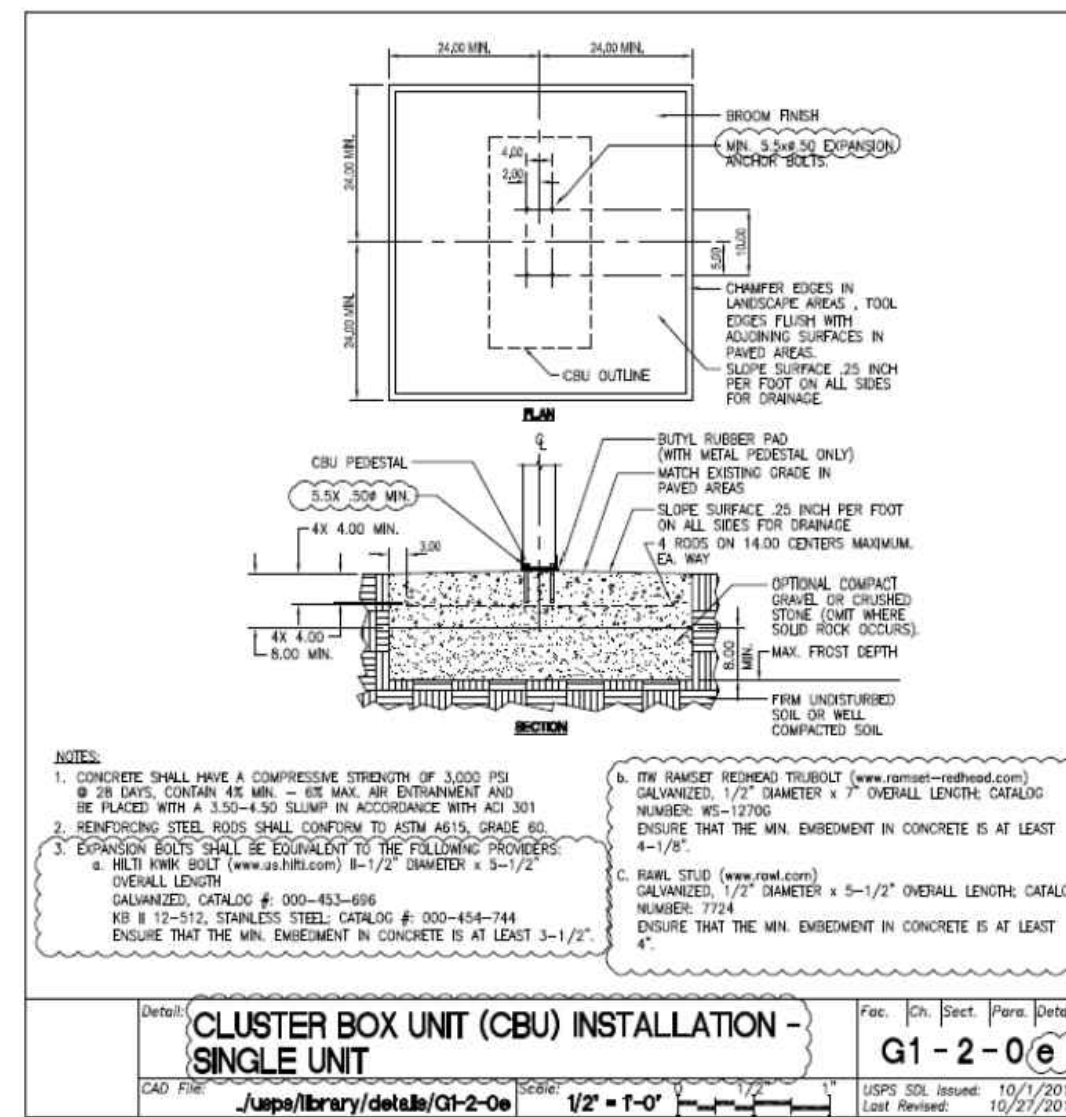
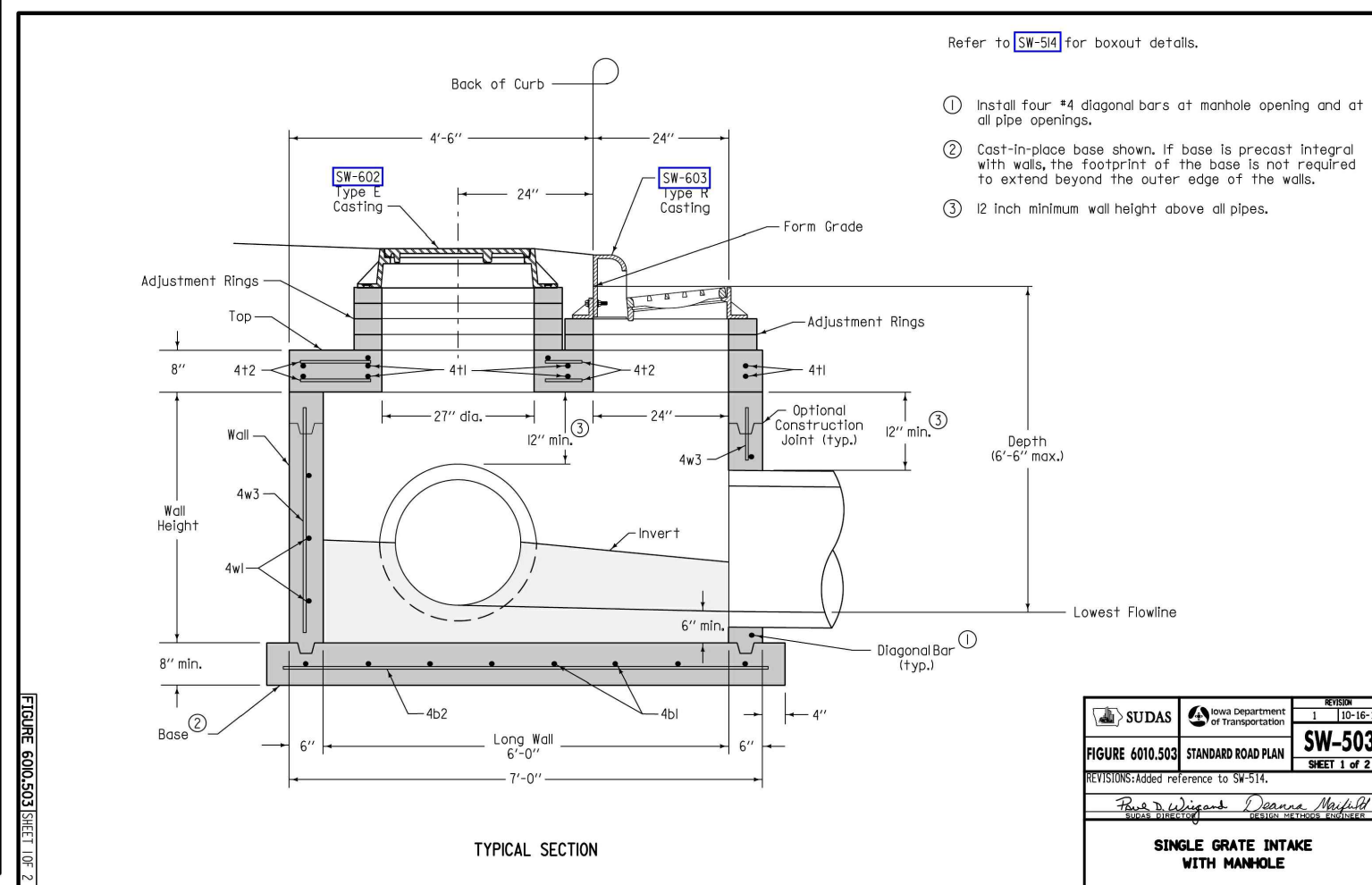
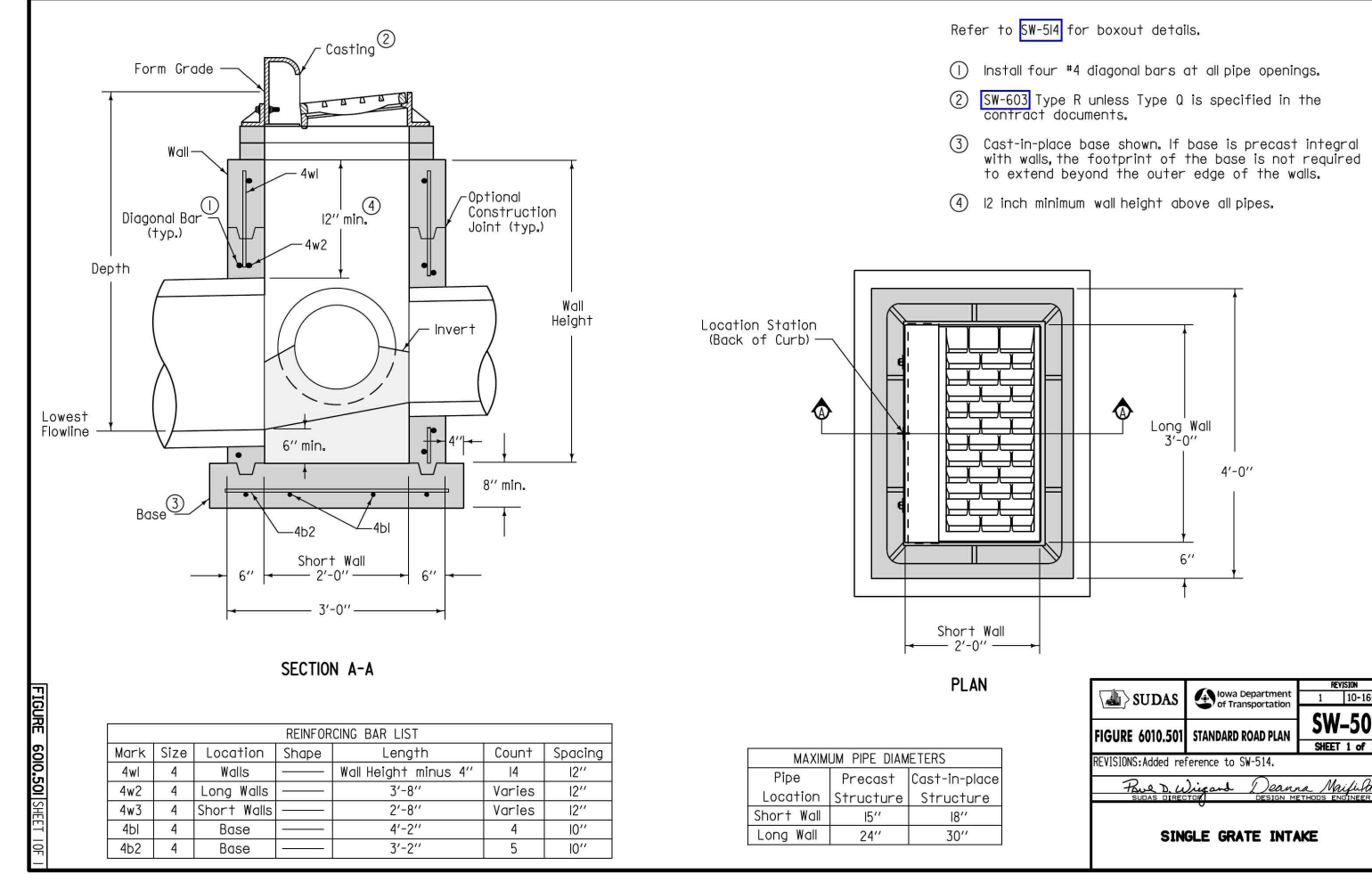
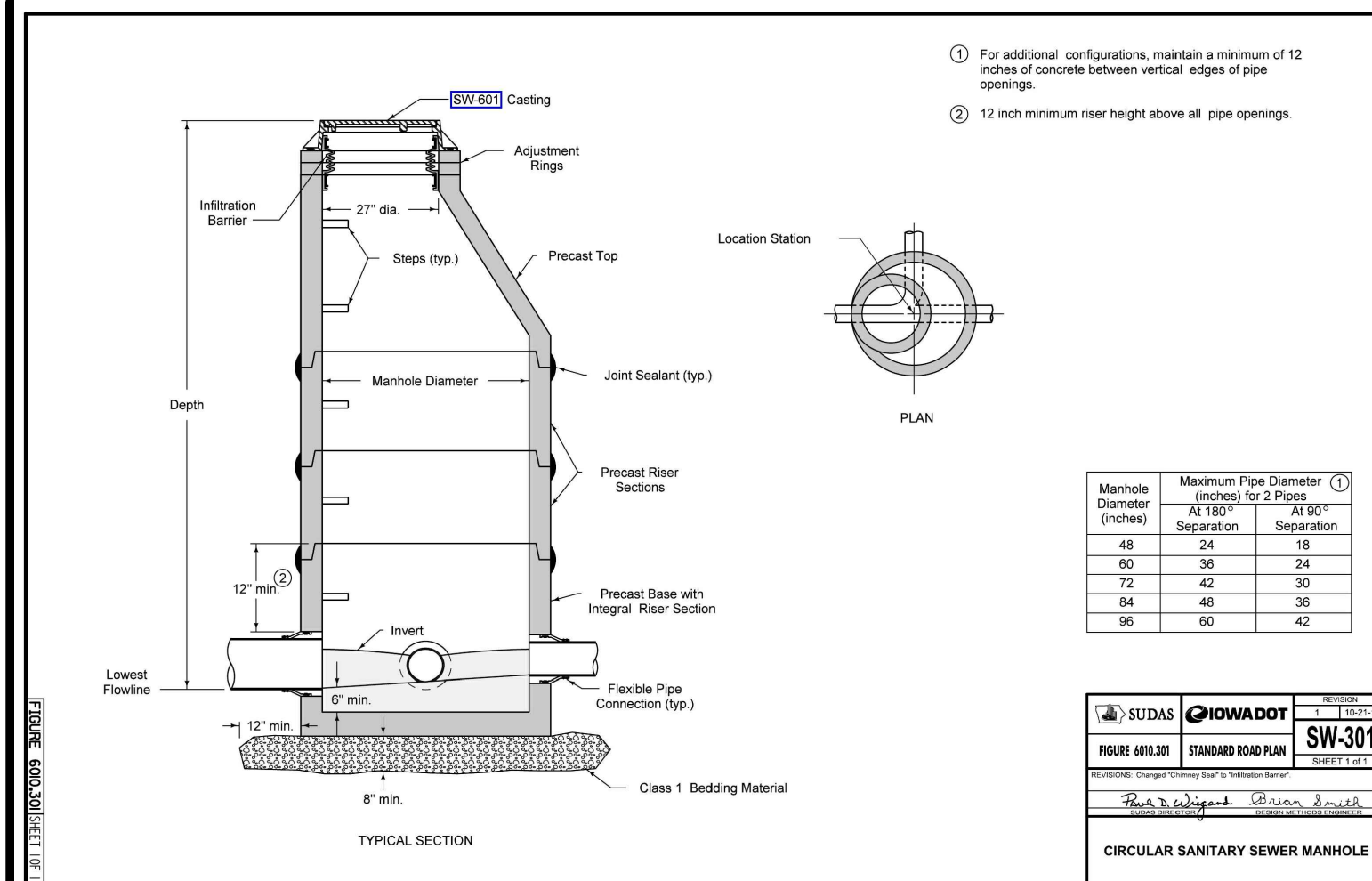
DATE:

07-24-2019 - 3RD SUBMITTAL
07-02-2019 - 2ND SUBMITTAL
06-11-2019 - 1ST SUBMITTAL
DATE OF SURVEY: 03/14/2019
DESIGNED BY: ARP
DRAWN BY: CM

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515.276.4884 · Fax: 515.276.7084 · mail@cecinc.com

CEC



STORM WATER POLLUTION PREVENTION PLAN

I. SITE DESCRIPTION/APPLICANT/SCHEDULE

- OWNER/APPLICANT: SILO 9, LLC
6205 MILLS CIRCLE PARKWAY, SUITE 200, WEST DES MOINES, IOWA 50266-8004
CONTACT: JAKE RIED, PHONE: 515-267-9001, EMAIL: JAKE@NEIGHBORHOODBUILDERS.COM
- LOCATION: A TRACT OF LAND IN THE NW 1/4 NW 1/4 OF SECTION 2, T19, R26W
- NATURE OF CONSTRUCTION ACTIVITY: GRADING AND CONSTRUCTION FOR SINGLE-FAMILY RESIDENTIAL LOTS
- AREAS: TOTAL SITE AREA = 10.00 ACRES
SITE AREA AFFECTED = 4.68 ACRES
- RUNOFF COEFFICIENT = 0.70 (RATIONAL METHOD)
- APPROXIMATE SLOPES ANTICIPATED: 3:1 OR FLATTER
- RUNOFF FROM THIS PROJECT WILL FLOW INTO LITTLE WALNUT CREEK.
- SOILS:
 - CLARION LOAM WITH SLOPES BETWEEN 9% TO 14%
 - CLARION LOAM, BEMIS MORAINES WITH SLOPES BETWEEN 2% TO 6%
 - COLAND-TERRILL COMPLEX WITH SLOPES BETWEEN 2% TO 5%
- ESTIMATED DATE WORK IS TO COMMENCE: JULY 2019
- ESTIMATED DATE WORK IS TO BE COMPLETED: SEPTEMBER 2020

2. CONTROLS

- EROSION AND SEDIMENT CONTROLS
- STABILIZATION PRACTICES
- EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND STABILIZE DISTURBED AREAS.
- PERMANENT SEEDING AND/OR SODDING AFTER CONSTRUCTION.
- VEGETATIVE BUFFER STRIPS THROUGHOUT PROJECT.
- PROTECTION OF TREES AND PRESERVATION OF MATURE VEGETATION WHEREVER POSSIBLE.
- STRUCTURAL PRACTICES
- ROCK OUTLET PROTECTION
- SILT FENCES
- DRAINAGE SHALES
- STORM WATER MANAGEMENT
- FLOW ATTENUATION BY USE OF OPEN VEGETATED SHALES AND NATURAL DEPRESSIONS.
- INFILTRATION OF RUNOFF ON SITE
- VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS TO PROVIDE NON-EROSIVE VELOCITY FLOWS.
- WASTE DISPOSAL
- ALL MATERIAL WASTES MUST BE REMOVED FROM THE SITE.
- OFF-SITE VEHICLE TRACKING OF SEDIMENTS SHALL BE MINIMIZED.
- STABILIZE THE ENTRANCE WITH 8-INCHES OF LIMESTONE.
- TOTAL COMPLIANCE WITH APPLICABLE STATE/LOCAL WASTE DISPOSAL REGULATIONS.
- CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE CONSTRUCTION ACTIVITY IS COMPLETE AND FINAL STABILIZATION HAS BEEN REACHED.

3. CONTRACTORS

- THE GENERAL CONTRACTOR SHALL HAVE THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE MEASURES CONTAINED IN THIS PLAN.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A CERTIFICATION STATEMENT BEFORE CONDUCTING ANY PROFESSIONAL SERVICE AT THE SITE RELATING TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES PERMIT. SEE CERTIFICATION THIS SHEET.
- PERSONS ACCOMPLISHING WORK UNDER THIS PERMIT:

NAME: _____
ADDRESS: _____

PHONE: _____

NAME: _____
ADDRESS: _____

PHONE: _____

NAME: _____
ADDRESS: _____

PHONE: _____

NAME: _____
ADDRESS: _____

PHONE: _____

4. IMPLEMENTATION / MAINTENANCE

- MAINTAIN EFFECTIVE OPERATING CONDITIONS OF ALL PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN.
- A CURB CUT SHALL BE ONE OF THE FIRST ITEMS OF CONSTRUCTION IN ORDER TO ACCESS THE SITE.
- "JUMPING THE CURB" IS NOT ALLOWED.
- PRIOR TO INITIAL GRADING, INSTALL PERIMETER SILT FENCE TO PROTECT UNDISTURBED AREAS.
- DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
- AFTER INITIAL GRADING PRIOR TO UTILITY CONSTRUCTION, ALL DISTURBED AREAS OUTSIDE THE PROPOSED RIGHT-OF-WAYS ARE TO HAVE TEMPORARY SEEDING AND MULCHING. CONTRACTORS AND SUBS ARE TO MINIMIZE DISTURBANCE TO THESE SEEDED AREAS THROUGH THE USE OF SPECIFIC ACCESS ROUTES WITHIN THE SITE.
- INSTALL ADDITIONAL CONTROLS AS CONSTRUCTION COMMENCES. PROVIDE SILT FENCE, INTAKE BASKETS, ECT. AS SOON AS POSSIBLE DURING CONSTRUCTION.
- TEMPORARY EARTH PILES SHALL HAVE DOWNSLOPE SILT FENCE PROTECTION.
- ALL INTAKES AND MANHOLES TO HAVE SILT FENCE AROUND THEM PRIOR TO PAVING AND INLET FILTERS AFTER PAVING. THESE FILTERS SHALL REMAIN IN PLACE UNTIL THE SITE HAS A PERENNIAL GROUND COVER.
- ALL INTAKES SHALL BE COVERED DURING CONSTRUCTION TO PREVENT SEDIMENTATION DEPOSITS WITHIN THE STORM SEWER UNTIL THE SITE HAS A PERENNIAL GROUND COVER. THE COVER SHALL BE CLEANED AFTER EVERY RAIN.
- ANY SOIL OR SPILL WASHED, TRACKED OR DROPPED ON TO ADJOINING RIGHT-OF-WAYS AND PROPERTY SHALL BE CLEANED UP BY THE CONTRACTOR IMMEDIATELY. EARTH RAMPS SHALL NOT BE CONSTRUCTED IN THE STREET GUTTER.
- MATERIAL OR EQUIPMENT STORAGE AREAS MUST BE WITHIN THE LIMITS OF SOIL DISTURBING ACTIVITY. THESE AREAS SHALL BE INSPECTED FOR POTENTIAL POLLUTANTS ENTERING THE SYSTEM.
- DURING CONSTRUCTION IF IT BECOMES EVIDENT THAT A DISTURBED AREA WILL NOT BE DISTURBED FOR A PERIOD EXCEEDING 14 DAYS, STABILIZATION OF THE DISTURBED AREAS SHALL INITIATE IMMEDIATELY.
- PERMANENT SEEDING AND MULCHING TO BE DONE IMMEDIATELY AFTER FINAL GRADING.
- ANY FAILED AREA OF SEEDING SHALL BE RESEED. - IN THE EVENT THAT SEEDING/MULCHING DOES NOT OCCUR PRIOR TO WINTER, ALL DISTURBED AREAS SHALL BE MULCHED.
- SILT FENCING SHALL BE CLEANED WHEN THEY HAVE LOST 50% OF THEIR CAPACITY.
- DRAINAGE SHALES REMAIN UNDISTURBED.
- ROCK OUTLET PROTECTION SHALL REMAIN INTACT.
- PERMANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED IMMEDIATELY AFTER FINAL GRADING IS COMPLETED. REPLANTING MAY BE REQUIRED TO ENSURE ADEQUATE VEGETATIVE COVER IS ESTABLISHED. ADEQUATE VEGETATIVE COVER IS CONSIDERED TO BE AT LEAST 10% COVERAGE OF THE SOIL SURFACE BY THE INTENDED SPECIES. IF NATIVE LANDSCAPE IS USED, THEN 10% COVERAGE BY THE COVER CROP IS REQUIRED.
- SOIL SHALL BE WATERED DURING DRY, WINDY CONDITIONS TO MINIMIZE EROSION.
- WORK REQUIRING ENTERING AND LEAVING THE SITE OVER COUNTY ROADWAYS INCLUDING MATERIAL DELIVERY AND MOVEMENT OF EQUIPMENT SHALL NOT BE PERMITTED DURING PERIODS WHEN THE GROUND IS EXCEPTIONALLY SOFT AND WET AND EROSION BY VEHICLE IS A CERTAINTY.
- SOIL STOCKPILES SHALL BE STABILIZED WITH VEGETATION OR COVERED. MOVING MAY BE REQUIRED IF THE VEGETATION BECOMES A NUISANCE.
- THE EROSION CONTROL CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION CONTROL MEASURES ONCE THE SITE HAS BEEN PERMANENTLY ESTABLISHED WITH GROUND COVER.
- THE CONCRETE WASHOUT AREA SHALL BE DESIGNED AND CONSTRUCTED PER SUDAS SECTION 11.050 AND SHALL HAVE AN IMPERMEABLE LINER TO CONTAIN ALL WASTE CONCRETE MATERIALS. WHEN THE CONTAINER IS ¾ FULL (AVOID SPILLOVER) THE PCC WASTE SHALL BE DISPOSED OF PROPERLY (SENT TO AN APPROPRIATE RECYCLING FACILITY). PCC WASTE SHALL NOT BE BURIED ON SITE.
- TRASH SHALL BE CLEANED UP DAILY OR PUT INTO A COVERED DUMPSTER.

5. INSPECTIONS

- THE CONTRACTOR SHALL KEEP A COPY OF THE SWPPP ONSITE
- QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- INSPECT SITE FOR EVIDENCE OF, OR THE POTENTIAL OF, POLLUTANTS ENTERING THE DRAINAGE SYSTEM FROM STORED MATERIALS.
- OBSERVE EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE THAT THEY ARE OPERATING CORRECTLY, REPAIR AND REPLACE AS NECESSARY.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
- INSPECT DISCHARGE LOCATIONS TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- ANY MODIFICATIONS TO THE PLAN AS A RESULT OF AN INSPECTION SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS OF THE INSPECTION. IF IT IS DETERMINED TO BE IMPRACTICABLE TO MAKE THESE CHANGES WITHIN 72 HOURS OF THE INSPECTION, REASONING AND AN ESTIMATED DATE OF WHEN THE CHANGES WILL BE MADE SHALL BE DOCUMENTED IN THE PLANS.
- AN INSPECTION REPORT SHALL BE PREPARED AND RETAINED AS PART OF THE PREVENTION PLAN UNTIL PROJECT TERMINATION. THIS REPORT WILL CONTAIN THE FOLLOWING:
 - A SUMMARY OF THE SCOPE OF THE INSPECTION.
 - QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION.
 - MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE PREVENTION PLAN.
 - ANY ACTIONS TAKEN
 - SIGNATURE
- THE REPORTS SHALL CONFORM TO THE STANDARDS SET BY THE IOWA DNR. COPIES OF THESE REPORTS SHALL BE FORWARDED TO THE OWNER.
- THE CONTRACTOR IS TO TAKE NECESSARY ACTIONS TO CORRECT DEFICIENCIES FOUND DURING INSPECTIONS AS SOON AS PRACTICABLE BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER THE INSPECTION. IF IT IS DETERMINED THAT IT IS IMPRACTICABLE TO MAKE THESE CHANGES WITHIN 72 HOURS OF THE INSPECTION, THE REASONING AND AN ESTIMATED DATE OF WHEN THE CHANGES WILL BE MADE SHALL BE DOCUMENTED IN THE PLANS.
- SWPPP RECORDS SHALL BE RETAINED FOR AT LEAST THREE YEARS AFTER THE NOTICE OF DISCONTINUATION HAS BEEN FILED.
- ALL HOMEBUILDINGS SHALL BE ACTIVELY COVERED UNDER THE GENERAL PERMIT #2 AUTHORIZATION FOR ALYVIA PLAT 1.

6. NON-STORM WATER DISCHARGES

- WATER MAIN FLUSHING
- FLUSHED WATER WILL BE DISCHARGED INTO THE STORM SEWER SYSTEM WHERE, WHEN DISCHARGED, IT WILL UNDERGO EROSION AND SEDIMENT CONTROLS CONSISTING OF:
 - SILTATION BASIN
 - ROCK OUTLET PROTECTION (RIPRAP)
 - SILT FENCING
 - EXISTING VEGETATION
- FLUSHED WATER CONTAINING CHEMICALS (I.E. CHLORINE AND/OR DETERGENTS) NEED TO BE NEUTRALIZED PRIOR TO DISCHARGE TO THE CONTROLS LISTED.
- PETROLEUM STORAGE INCLUDING BUT NOT LIMITED TO FUEL, GEAR OIL, ENGINE OIL, HYDRAULIC OIL, WASTE OIL SHALL NOT BE STORED ON SITE.
- CONCRETE WASHOUT AREAS SHALL BE DESIGNED IN COMPLIANCE WITH SUDAS SPECIFICATION 11.050.
- PORTABLE TOILETS SHALL BE SECURED FROM OVERTURNING AND SHALL HAVE DOWNSLOPE SILT FENCE PROTECTION. THE HOLDING TANK WILL BE PUMPED OUT AS NEEDED AND DISPOSED OF OFF-SITE.
- CONTRACTOR SHALL CONTAIN AND PROPERLY DISPOSE OF ALL CONCRETE SAWCUTTING AND GRINDING.
- DISCHARGES FROM DEMATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEMATERING OF TRENCHES AND EXCAVATIONS, ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS SUCH AS DEMATERING BAGS OR EQUAL.
- THE FOLLOWING DISCHARGES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO
 - PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS
 - FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING
- THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS SHALL BE MINIMIZED. WASH WATERS SHALL BE TREATED IN A SEDIMENT BASIN OR EQUAL CONTROL.
- THE DISCHARGE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER PRESENT MATERIALS TO PRECIPITATION AND STORM WATER SHALL BE MINIMIZED.
- THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS SHALL BE MINIMIZED.

7. REPORT ANY HAZARDOUS CONDITIONS CONDITION AND UPDATE THE PLAN

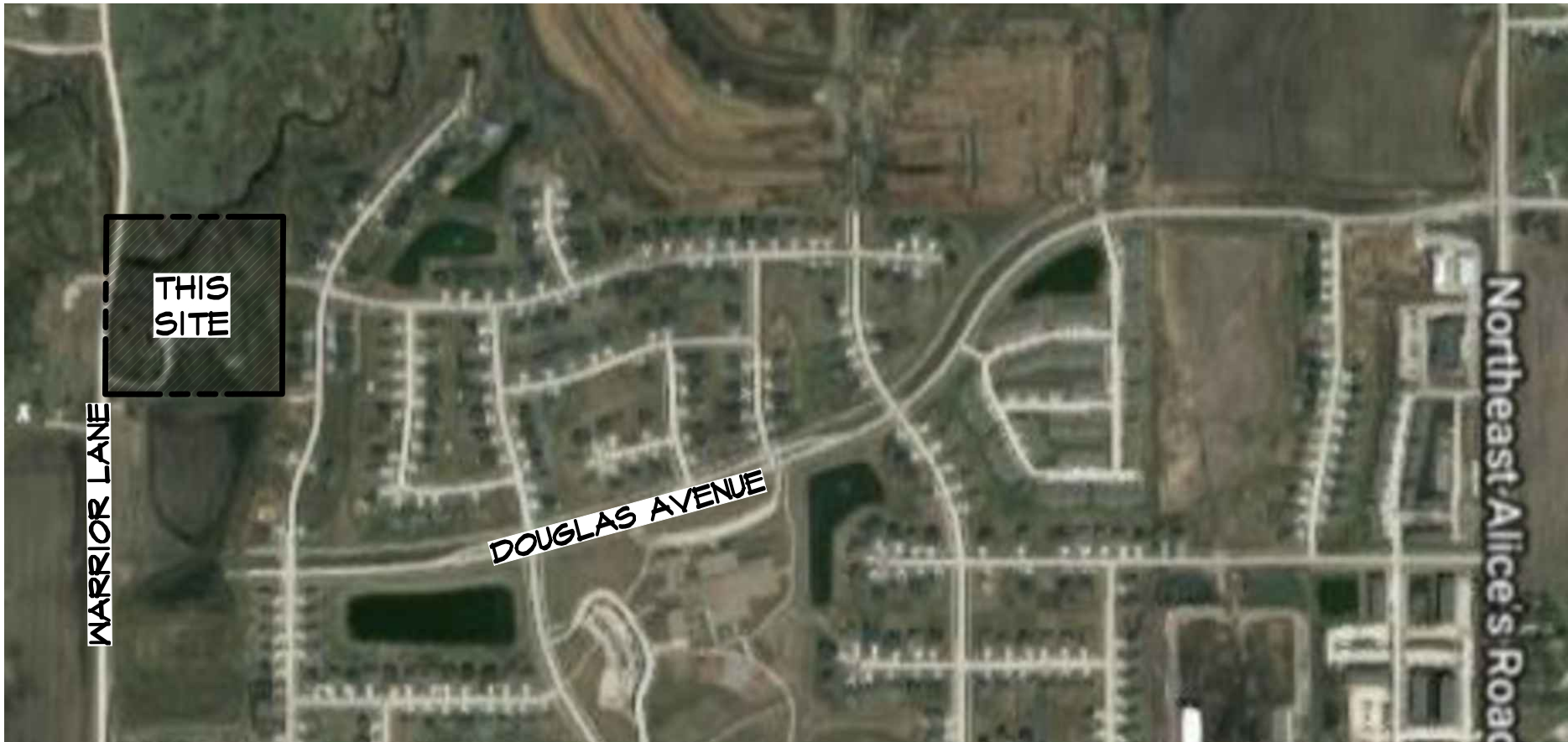
- IOWA LAW REQUIRES THAT A HAZARDOUS CONDITION OR SPILL IS REPORTED NOT MORE THAN SIX HOURS AFTER THE ONSET OF SAID CONDITION OR SPILL. THE IDNR AND LOCAL OR COUNTY SHERIFF'S OFFICE SHALL BE NOTIFIED.
- MODIFY THE SWPPP WITHIN 5 CALENDAR DAYS OF A HAZARDOUS CONDITION. THE PLAN UPDATE SHALL INCLUDE THE RELEASE AND CIRCUMSTANCES OF THE RELEASE AND PLANS TO PREVENT FUTURE REOCCURANCE OF SUCH RELEASES.

8. NOTICE OF DISCONTINUATION (NOD)

- WITHIN 30 DAYS OF FINAL SITE STABILIZATION THE OWNER OR GENERAL CONTRACTOR MUST SUBMIT A NOTICE OF DISCONTINUATION TO THE IDNR. THE NOD SHALL INCLUDE:
 - THE NAME OF THE OWNER OR OPERATOR TO WHICH COVERAGE UNDER THE GENERAL PERMIT WAS ISSUED
 - THE GENERAL PERMIT NUMBER AND THE PERMIT AUTHORIZATION NUMBER
 - THE DATE THE CONSTRUCTION SITE REACHED FINAL STABILIZATION
 - A SIGNED CERTIFICATION
- THE NOD SHALL BE MAILED TO:
STORM WATER COORDINATOR
IOWA DEPARTMENT OF NATURAL RESOURCES
502 E. 9TH STREET
DES MOINES, IOWA 50319-0034

SEQUENCE OF MAJOR ACTIVITIES

1. **PRE-CONSTRUCTION:** SOIL STABILIZATION AND EROSION CONTROL MEASURES WILL BE PLACED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION SHALL BE PRESERVED. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED.
2. INSTALL UPSTREAM DIVERSIONS, DOWN SLOPE AND SIDE SLOPE PERIMETER CONTROLS BEFORE COMMENCING LAND DISTURBING ACTIVITIES.
3. DO NOT DISTURB AN AREA UNLESS IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
4. COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
5. TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT ON SEASONAL WEATHER CHANGES.
6. IF INFILTRATION METHODS ARE USED, INSTALL THEM AFTER UPSTREAM IS STABILIZED.
7. DO NOT REMOVE PERIMETER CONTROLS UNTIL UPSTREAM AREAS ARE STABILIZED.
8. DISTURBED AREAS SHALL BE SEEDED, FERTILIZED AND MULCHED AS SOON AS POSSIBLE.
9. A NOTICE OF DISCONTINUATION WILL BE FILED ONCE THE SITE IS STABILIZED.



VICINITY SKETCH

SCALE: 1" = 600'

OWNER'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, BY MY SIGNATURE, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE, ALONG WITH THE CONTRACTOR AND SUBCONTRACTORS SIGNING SUCH CERTIFICATIONS, TO THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2 FOR "STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY" FOR CONSTRUCTION ACTIVITIES" AT THE IDENTIFIED SITE. AS A CO-PERMITTEE, I UNDERSTAND THAT I, AND MY ORGANIZATION, ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE CODE OF IOWA, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED UNDER THIS NPDES PERMIT AND THE TERMS OF THIS NPDES PERMIT.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME / TITLE: _____

COMPANY: SILO 9, LLC

TELEPHONE NUMBER: _____

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION. FURTHER, BY MY SIGNATURE, I UNDERSTAND THAT I AM BECOMING A CO-PERMITTEE, ALONG WITH THE OWNER(S) AND OTHER CONTRACTORS AND SUBCONTRACTORS SIGNING SUCH CERTIFICATIONS, TO THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2 FOR "STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES" AT THE IDENTIFIED SITE. AS A CO-PERMITTEE, I UNDERSTAND THAT I AND MY COMPANY ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE CODE OF IOWA, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED UNDER THIS NPDES PERMIT AND THE TERMS OF THIS NPDES PERMIT.

GENERAL CONTRACTOR

NAME / TITLE: _____

COMPANY: _____

TELEPHONE NUMBER: _____

SUBCONTRACTOR

NAME / TITLE: _____

COMPANY: _____

SUBCONTRACTOR

NAME / TITLE: _____

COMPANY: _____

SUBCONTRACTOR

NAME / TITLE: _____

COMPANY: _____

QUANTITIES

- 2125 LF SILT FENCE
- 4.68 ACRES SEEDING - TYPE 4 (TEMPORARY AS NEEDED)
- 4.68 ACRES SEEDING - TYPE 2 (PERMANENT)
- 2 EA INTAKE BASKETS

AREA OF DISTURBANCE

5.32 ACRES



DATE:	07-24-2019 - 3RD SUBMITTAL
	07-02-2019 - 2ND SUBMITTAL
	06-11-2019 - 1ST SUBMITTAL
DATE OF SURVEY:	03/14/2019
DESIGNED BY:	ARP
DRAWN BY:	GM

ALYVIA - PLAT 1
WAUKEE, IOWA
SWPPP NOTES

SHEET
OF 17

A1083



PLOT BY: CODY MEYER AND FULL BLEED D (34.00 X 22.00 INCHES) 2019-07-24 11:11 AUTOCAD PDF (GENERAL DOCUMENTATION) PC3



SCALE: 1"=50'



ALYVIA - PLAT 1
WAUKEGE, IOWA

SHEET
16
OF 17

SWPPP

DATE:

07-24-2019 - 3RD SUBMITTAL

07-02-2019 - 2ND SUBMITTAL

06-11-2019 - 1ST SUBMITTAL

DATE OF SURVEY:

03/14/2019

DESIGNED BY:

ARP

DRAWN BY:

CM

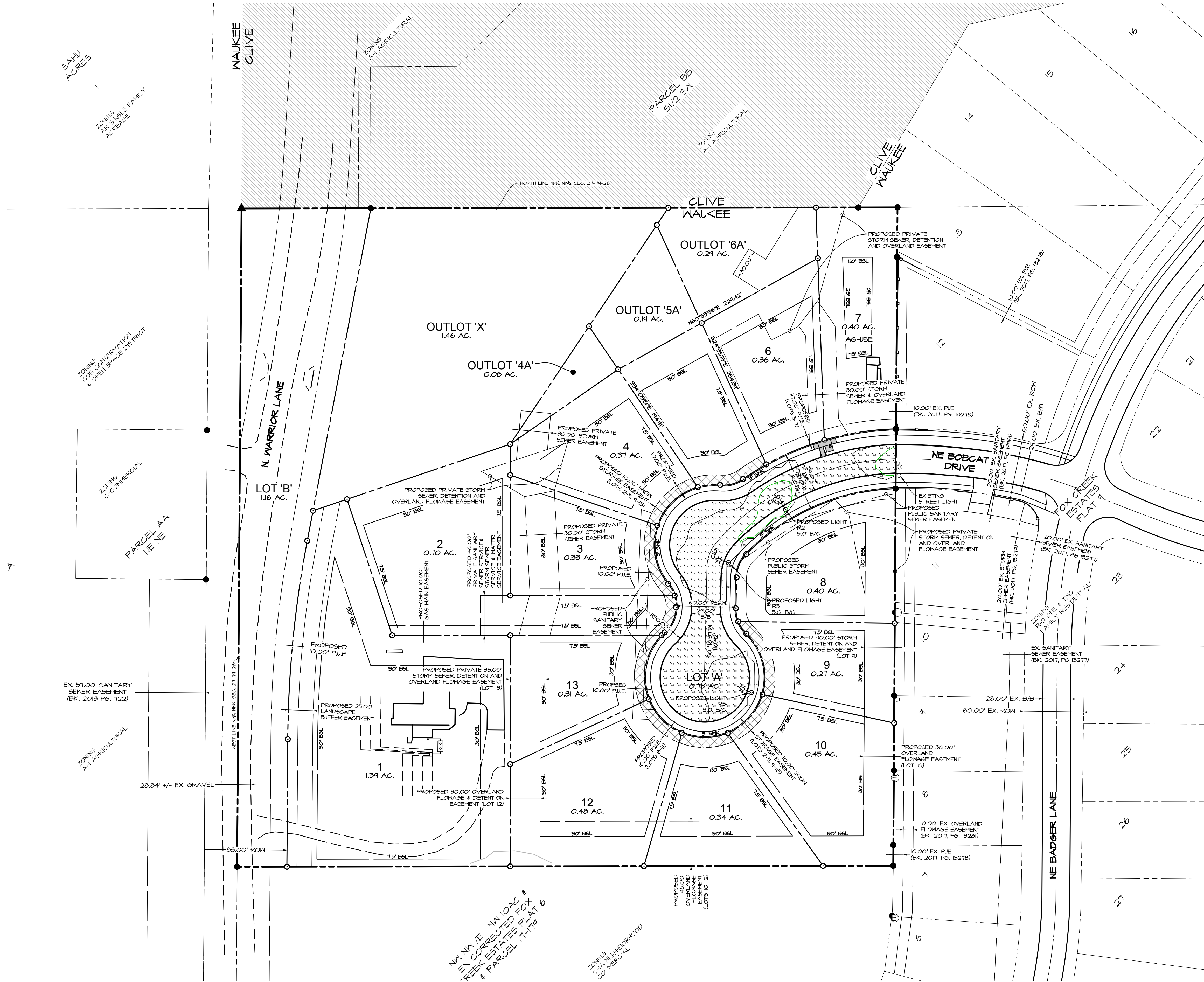


Civil Engineering Consultants, Inc.

2400 86th Street, Unit 12, Des Moines, Iowa 50322

515.276.4884 · Fax: 515.276.7084 · mail@cecinc.com

PLOT BY: CODY MEYER AND FULL BLEED D (84.00 X 22.00 INCHES) 2019-01-24 11 AUTOCAD PDF (GENERAL DOCUMENTATION) PC3



LOCAL STREETS	
STREETLIGHT INFORMATION	
STREETLIGHT QUANTITY	3
STREETLIGHT TYPE	ATBO LED E53 R2 - 1 EA. ATBO LED E53 R5 - 2 EA.
WATTAGE	35W LED
MAST LENGTH	6'
POLE HEIGHT/FIXTURE HEIGHT	28'/24.5'
STREETLIGHT SETBACK	3' TO 6' AS NECESSARY TO AVOID UTILITIES
SPACING	110'-130'
STREET WIDTH (CURB TO CURB)	24' 3/8"
LIGHT LOSS FACTOR	0.81
AVERAGE FC	0.40
UNIFORMITY	6.0

SCALE: 1"=50'



ALYVIA - PLAT 1
WAUKEE, IOWA

STREET LIGHTING PLAN

SHEET
OF 17

A1883

DATE:	01-24-2019 - 3RD SUBMITTAL
	01-02-2019 - 2ND SUBMITTAL
	06-11-2019 - 1ST SUBMITTAL
DATE OF SURVEY:	03/14/2019
DESIGNED BY:	ARP
DRAWN BY:	CM



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