

ASBUILT PUBLIC IMPROVEMENTS

ALYVIA - PLAT 1

WAUKEE, IOWA

LEGAL DESCRIPTION:

THE WEST 650.75 FEET OF THE NORTH 661.25 FEET OF THE NW1/4 NW1/4 OF SECTION 27, TOWNSHIP 74 NORTH, RANGE 26 WEST, EXCEPT THE FUTURE LOT 7 OF ALYVIA PLAT 1, CITY OF WAUKEE, DALLAS COUNTY, IOWA THAT IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NW CORNER OF SAID NW1/4 NW1/4; THENCE N89°54'13"E, 650.77 FEET ALONG THE NORTH LINE OF SAID NW1/4 NW1/4 TO THE NE CORNER OF SAID WEST 650.75 FEET; SAID NE CORNER ALSO BEING ON THE WEST LINE OF FOX CREEK ESTATES PLAT 4, AN OFFICIAL PLAT RECORDED IN BOOK 2017, PAGE 13271 AT THE DALLAS COUNTY RECORDER'S OFFICE; THENCE S00°24'16"W, 222.45 FEET ALONG THE EAST LINE OF SAID WEST 650.75 FEET OF THE NORTH 661.25 FEET, SAID EAST LINE ALSO COINCIDING WITH THE SAID WEST LINE OF FOX CREEK ESTATES PLAT 4, TO THE SW CORNER OF LOT 12 OF SAID FOX CREEK ESTATES PLAT 4; THENCE S00°21'16"W, 438.75 FEET ALONG SAID EAST LINE AND SAID WEST LINE OF FOX CREEK ESTATES PLAT 4 TO THE SE CORNER OF SAID WEST 650.75 FEET OF THE NORTH 661.25 FEET; THENCE S01°54'31"W, 650.84 FEET ALONG THE SOUTH LINE OF SAID WEST 650.75 FEET OF THE NORTH 661.25 FEET TO THE SW CORNER OF SAID WEST 650.75 FEET OF THE NORTH 661.25 FEET, SAID POINT ALSO BEING ON THE WEST LINE OF SAID NW1/4 NW1/4; THENCE N00°22'56"E, 661.14 FEET ALONG SAID WEST LINE TO THE POINT OF BEGINNING AND CONTAINING 10.00 ACRES INCLUDING 0.77 ACRES OF PUBLIC RIGHT-OF-WAY EASEMENT MORE OR LESS.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS AND THE CURRENT EDITION OF SUDAS STANDARD SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
 - CITY OF WAUKEE PUBLIC WORKS DEPARTMENT.
 - SILCO 9, LLC
 - CIVIL ENGINEERING CONSULTANTS, INC.
 - IOWA ONE-CALL
 - IOWA DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR SETTING UP A PRECONSTRUCTION MEETING WITH THE CITY OF WAUKEE ENGINEERING DEPARTMENT AT LEAST ONE WEEK PRIOR TO CONSTRUCTION.
- ALL TESTING IS TO BE COMPLETED PER CITY OF WAUKEE STANDARD SPECIFICATIONS. ALL TESTING IS TO BE WITNESSED BY THE CITY OF WAUKEE.
- THE CONTRACTOR IS TO PROVIDE SUBMITTALS OF CONSTRUCTION MATERIALS TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
- THE LOCATION OF EXISTING FACILITIES AND APPURTENANCES SHOWN ON THIS PLAN ARE BASED ON AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING TO DETERMINE EXACT FACILITIES LOCATIONS. CIVIL ENGINEERING CONSULTANTS, INC. DOES NOT GUARANTEE THE LOCATION OF EXISTING FACILITIES AS SHOWN OR THAT ALL EXISTING FACILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL PUBLIC AND PRIVATE UTILITY PROVIDERS SERVING THIS AREA, AND IOWA ONE-CALL, TO DETERMINE THE EXTENT AND PRECISE LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE RESULTING FROM THE CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC., OF EXISTING FACILITIES DOES OCCUR THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE UTILITY'S OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY FARM TILE DAMAGE DURING CONSTRUCTION AND RECORDING LOCATION OF TILE.
- ANY CHANGES TO THE CONSTRUCTION DRAWINGS DURING CONSTRUCTION SHALL BE APPROVED IN WRITING BY THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES MADE DURING CONSTRUCTION THAT HAVE NOT BEEN APPROVED IN WRITING BY THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF WAUKEE ENGINEERING DEPARTMENT 48-HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ON A HOLIDAY OR WEEKEND.
- ALL CONSTRUCTION STAKING SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A LICENSED ENGINEER OR LAND SURVEYOR.
- A CERTIFIED AS-BUILT GRADING PLAN SHALL BE PROVIDED TO THE CITY OF WAUKEE PUBLIC WORKS DEPARTMENT PRIOR TO ACCEPTANCE OF PUBLIC IMPROVEMENTS AND APPROVAL OF THE FINAL PLAN.
- ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THE PLANS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ALL APPLICABLE SAFETY REGULATIONS.
- THE CONTRACTOR SHALL CONDUCT CLEAN-UP, SURFACE RESTORATION, AND SURFACE REPLACEMENT ACTIVITIES AS CONSTRUCTION PROGRESSES. ALL DEBRIS SPILLED ON THE ROAD OR ON ADJACENT PROPERTY SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH DAY AND PRIOR TO ANY RAIN EVENT.
- IF DISCREPANCY EXISTS BETWEEN THE DETAILED PLANS AND THE QUANTITIES, THE PLANS SHALL GOVERN.
- THE CITY OF WAUKEE REQUIRES ALL HANDICAP ACCESS RAMPS AND LANDING PADS TO BE CONSTRUCTED AS PART OF THE PUBLIC IMPROVEMENTS (SHADED). SIDEWALKS ARE NOT TO BE CONSTRUCTED AS PART OF THESE IMPROVEMENTS.
- SIDEWALKS AND PEDESTRIAN RAMPS ARE TO BE DESIGNED AND INSTALLED PER THE LATEST PROWAG AND ADA REQUIREMENTS. CURB RAMPS ARE TO BE STAKED OUT BY THE ENGINEER.
- ALL TEMPORARY TRAFFIC CONTROLS MUST BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PROTECT AND BACK FILL AROUND UNDERGROUND UTILITIES. BACK FILL SHALL BE IN 6-INCH LAYERS, COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- THE HOMEOWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE DETENTION PONDS AND ALL STORM SEWER LOCATED OUTSIDE OF THE RIGHT-OF-WAY.

SANITARY NOTES

- CASTING TYPES ARE FROM SUDAS SPECS.
- CONNECTIONS TO EXISTING MANHOLES ARE TO BE CORE DRILLED AND USE A LINK SEAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATIONS OF ALL SANITARY SEWER SERVICES & PROVIDING THIS INFORMATION TO THE ENGINEER.
- THE CONTRACTOR SHALL CLEAN AND VIDEO TAPE THE SANITARY SEWER AT PROJECT COMPLETION. A COPY OF THE VIDEO AND THE REPORT SHALL BE SUBMITTED TO THE CITY OF WAUKEE PUBLIC WORKS DEPARTMENT AFTER THE VIDEO INSPECTION.
- ALL MANHOLES AND MANHOLE CASTINGS MUST BE ROTATED AS REQUIRED TO AVOID MANHOLE CONFLICTS WITH SIDEWALKS.
- ALL SANITARY MANHOLES SHALL BE VACUUM TESTED.
- ONE WEEK PRIOR TO SANITARY SEWER CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF WAUKEE AND THE HOMEOWNER OF 870 NE BADGER LANE. CONTRACTOR SHALL MAINTAIN ACCESS TO 870 NE BADGER LANE. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ALL SIDEWALK, FENCE, DRIVEWAY, AND SOD AS PART OF THE SANITARY SEWER CONSTRUCTION. ALL NEW SOD SHALL BE WATERED UNTIL ESTABLISHED BY THE CONTRACTOR.

STORM NOTES

- PROVIDE A 3" WIDE CLAY WATER STOP, APRON GUARDS & CONCRETE FOOTINGS ON ALL FLARED END SECTIONS. CONTRACTOR SHALL TIE THE LAST THREE PIPE JOINTS AT THE FLARED END SECTION.
- ALL STORM SEWER ARE TO BE CLEANED AND VIDEO TAPED UPON COMPLETION. A COPY OF THE VIDEO SHALL BE PROVIDED TO THE CITY OF WAUKEE PUBLIC WORKS DEPARTMENT.
- PAVEMENT REINFORCEMENT IS REQUIRED WHERE EARTH COVER OVER STORM SEWERS IS LESS THAN 2 FEET.

WATER NOTES

- FOLLOW WAUKEE STANDARD SPECIFICATIONS FOR PIPE MATERIALS, FIRE HYDRANTS, CURB STOPS, VALVES AND INSTALLATION.
- THE CONTRACTOR SHALL PROTECT AND BACKFILL AROUND ALL UTILITIES AND STRUCTURES. BACKFILL SHALL BE IN ACCORDANCE WITH WAUKEE STANDARD SPECIFICATIONS.
- HYDRANTS, MANHOLE COVERS AND VALVE BOXES SHALL BE SET TO CONFORM TO FINISHED PAVEMENT ELEVATIONS.
- HYDRANTS SHALL BE SET NOT MORE THAN 4 FEET FROM CENTER OF WATER MAIN.
- AN APPROVED SANDLE SHALL BE USED FOR ALL WATER SERVICE TAPS.
- ALL SERVICE LINES SHALL BE TESTED WITH WATER MAIN.
- WHERE SEWERS CROSS OVER OR LESS THAN 18-INCHES BELOW A WATER MAIN:
 - FOR STORM SEWERS FLEXIBLE O-RING-GASKET JOINTS RATED AT 15 PSI OR GREATER SHALL BE UTILIZED UNTIL THE NORMAL DISTANCE FROM THE SEWER TO THE WATER MAIN IS AT LEAST 10'
 - ONE FULL LENGTH OF WATER MAIN SHALL BE LOCATED SO THAT BOTH JOINTS AREA AS FAR AS POSSIBLE FROM THE SEWER.
 - THE SEWER MUST BE ADEQUATELY SUPPORTED.
 - A LOW PERMEABLE SOIL SHALL BE USED FOR BACKFILL WITHIN 10' OF THE POINT OF CROSSING.
- ALL HYDRANTS SHALL HAVE 4" STORM FITTINGS INCLUDING ANY RELOCATED HYDRANTS.
- ALL STORM SEWER CROSSINGS ABOVE THE WATER MAIN WILL NEED TO INSTALL O-RING JOINT PIPE FOR 20' CENTERED OVER THE WATER MAIN. SEWER CROSSINGS MAY ALSO FOLLOW THE IDNR WATER SUPPLY ENGINEERING SECTION ALTERNATIVE SOLUTIONS TO MEETING REQUIREMENTS FOUND IN SUBPARAGRAPH 567 IAC 43.3(2) "A" (3).

PAVING NOTES

- ALL STREET PAVING SHALL BE 7-INCH NON-REINFORCED P.C.C.
- ALL SIDEWALKS & RAMPS SHALL BE 4-INCH NON REINFORCED P.C.C.
- ALL STREETS SHALL HAVE 6-INCH CURBS.

UTILITY CONTACTS

- SANITARY SEWER** - WAUKEE PUBLIC WORKS DEPARTMENT (515-418-7420)
- WATER MAIN** - WAUKEE PUBLIC WORKS DEPARTMENT (515-418-7420)
- STORM SEWER** - WAUKEE PUBLIC WORKS DEPARTMENT (515-418-7420)
- NATURAL GAS UTILITY** - CITY OF WAUKEE (515-418-1420)
- ELECTRIC** - MID AMERICAN ENERGY (515-252-6547)

QUANTITIES

SANITARY SEWER

- 5391 L.F. 8-INCH SANITARY SEWER
- 13 EA. SANITARY SERVICES
- 3 EA. SW-301 MANHOLE

WATER MAIN

- 403 L.F. 8-INCH WATER MAIN
- 1 EA. 8-INCH VALVE
- 1 EA. 11.25" 8-INCH BEND
- 1 EA. 22.5" 8-INCH BEND
- 1 EA. 45" 8-INCH BEND
- 2 EA. HYDRANT, REDUCER & 6-INCH VALVE
- 13 EA. WATER MAIN SERVICES

PAVING

- 1191 S.Y. 7-INCH NON-REINFORCED P.C.C.
- 2166 S.Y. 12" SUBGRADE PREP.
- 873 L.F. 6" SUBDRAIN
- 1 EA. DEPRESSED SIDEWALK/CBU
- 3 EA. STREET LIGHTS

PAVING - REMOVAL AND REPLACEMENT

- 64 S.Y. SIDEWALK
- 57 S.Y. DRIVEWAY

STORM SEWER

- 3225 L.F. 8-INCH PVC
- 234 L.F. 12-INCH RCP CLASS III
- 43 L.F. 15-INCH RCP CLASS III
- 108 L.F. 18-INCH RCP CLASS III
- 43 L.F. 24-INCH RCP CLASS III
- 1 EA. SW-505 INTAKE W/ SW-603 'R' GRATE
- 1 EA. SW-506 INTAKE W/ SW-602 'E' CASTING & SW-603 'R' GRATE
- 5 EA. SW-401 MANHOLE W/ SW-602 'E' CASTING
- 36"x36" SW-518 INTAKE W/ SW-602 'E' CASTING
- 1 EA. 48"x48" SW-513 INTAKE W/ SW-602 'E' CASTING
- 5 EA. 12-INCH FLARED END SECTION
- 1 EA. 21-INCH FLARED END SECTION
- 2 EA. 24-INCH FLARED END SECTION
- 43 TN. CLASS 'E' REVETMENT STONE
- 13 EA. STORM SERVICES

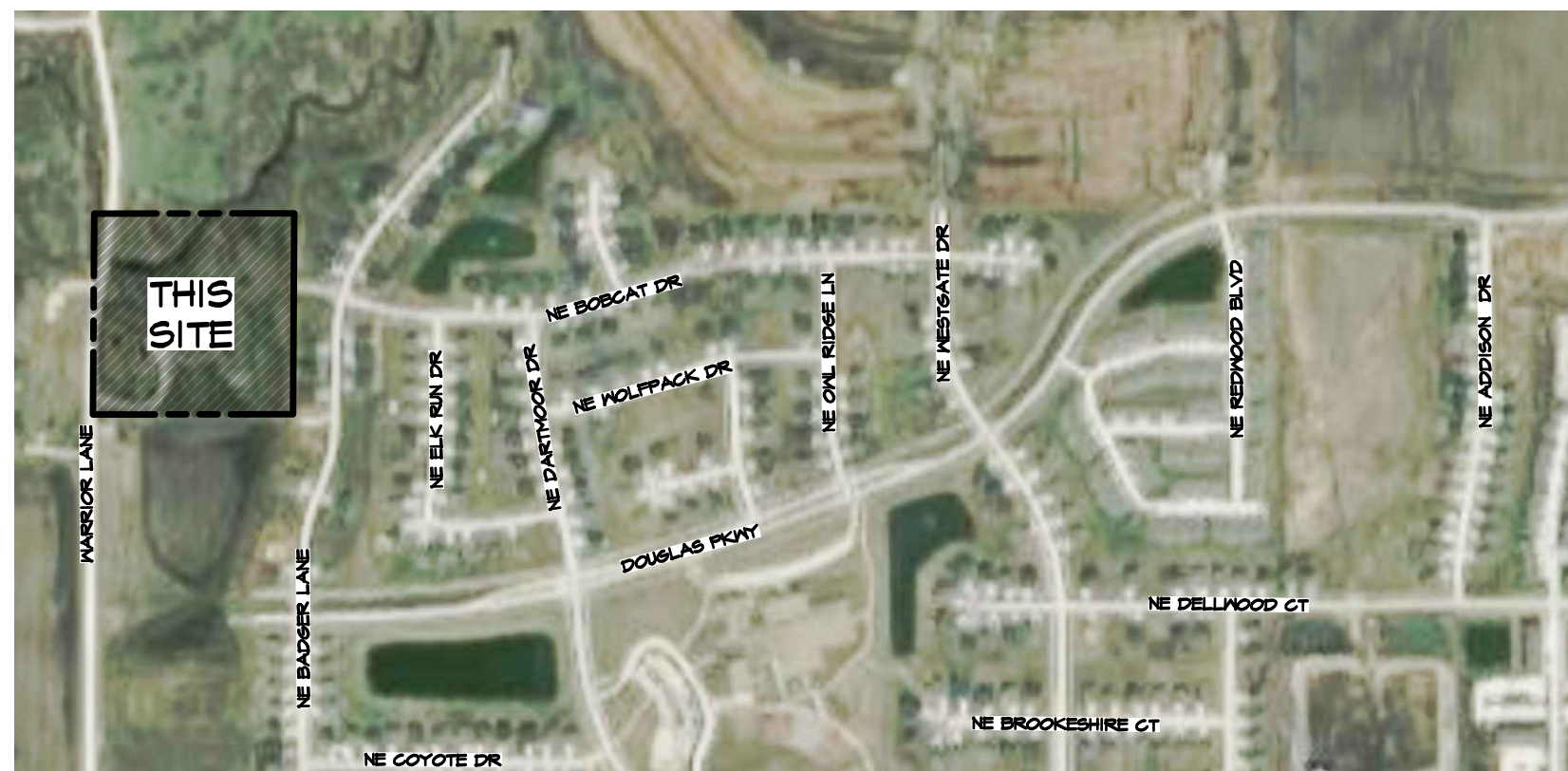
FLOOD ZONE

ZONE 'X' ACCORDING TO FEMA FLOOD INSURANCE RATE MAPS. COMMUNITY-PANEL #19153C0165F MAP REVISED FEBRUARY 1, 2014.

FEMA MAPS ARE SUBJECT TO CHANGES AND REVISIONS. PLEASE SEE FLOOD MAP SERVICE CENTER FOR CURRENT MAPS.

NOTES

- STREET LOT 'A' & 'B' BE DEEDED TO THE CITY OF WAUKEE FOR STREET PURPOSES.



VICINITY SKETCH

SCALE: 1" = 600'

PROPERTY OWNER:

CARRIER, JOHN D JR & BRENDA D JTRS
500 NE BROOKSHIRE CT
WAUKEE, IA 50263

PROPERTY LOCATION:

3301 N WARRIOR LANE
WAUKEE, IA 50325

PREPARED FOR:

SILCO 9, LLC
6205 MILLS CIVIC PARKWAY, SUITE 200
WEST DES MOINES, IOWA 50266-8004
ATTN: JAKE RIED

PROJECT MANAGER:

ED ARP
CIVIL ENGINEERING CONSULTANTS, INC.
2400 86TH STREET, UNIT 12
DES MOINES, IA 50322
PHONE: 515-276-4884
EMAIL: ARP@CEC.IAG.COM

PROPOSED CONSTRUCTION SCHEDULE

GRADING ACTIVITIES: JULY, 2019
UTILITY PLACEMENT: AUGUST, 2019
PAVEMENT: SEPTEMBER, 2019
PUNCH LIST ITEMS: NOVEMBER, 2019

ZONING

LOTS 1-6, 8-13 R-2 SINGLE FAMILY RESIDENTIAL
LOT 7 A-1 AGRICULTURAL

BULK REGULATIONS

R-2

FRONT YARD SETBACK: 30'
REAR YARD SETBACK: 30'
SIDE YARD SETBACK: 15' TOTAL (MIN. SIDE 7')
LOT WIDTH: 65'
LOT AREA: 8,000 SF

A-1

FRONT YARD SETBACK: 75'
REAR YARD SETBACK: 50'
SIDE YARD SETBACK: 50' TOTAL - MIN. SIDE 20' (DWELLING)
75' CORNER LOT ADJACENT TO STREET)
50' EACH SIDE (OTHER PERMITTED USES)
200'
5 ACRES (DWELLING USE ONLY)
NO MINIMUM LOT AREA (OTHER PERMITTED USES)

LOT WIDTH:
LOT AREA:

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	DEMO
3	DIMENSION PLAN
4	SANITARY SEWER PLAN
5	SANITARY SEWER PLAN
6	STORM SEWER PLAN
7	STORM SEWER PLAN
8	STORM SEWER PLAN

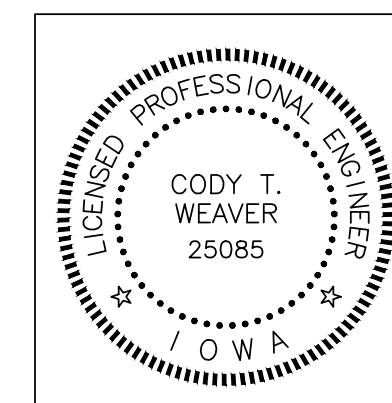
Sheet List Table	
Sheet Number	Sheet Title
9	WATER MAIN & PAVING PLAN
10	WATER MAIN & PAVING PLAN
11	LOT 1 & 2 SERVICE DETAIL
12	PAVEMENT DETAILS
13	GRADING PLAN
14	DETAILS
15	SWPPP NOTES
16	SWPPP
17	STREET LIGHTING PLAN

GENERAL LEGEND

PROPOSED	EXISTING
--- PLAT BOUNDARY	--- LOT LINE
--- SECTION LINE	○ SANITARY/STORM MANHOLE
--- LOT LINE	○ WATER VALVE
--- CENTERLINE	○ FIRE HYDRANT
--- EASEMENT LINE	□ STORM SEWER SINGLE INTAKE
FLARED END SECTION	□ STORM SEWER DOUBLE INTAKE
TYPE SW-501 STORM INTAKE	□ STORM SEWER ROUND INTAKE
TYPE SW-502 STORM INTAKE	△ FLARED END SECTION
TYPE SW-503 STORM INTAKE	○ DECIDUOUS TREE
TYPE SW-504 STORM INTAKE	○ CONIFEROUS TREE
TYPE SW-505 STORM INTAKE	○ SHRUB
TYPE SW-506 STORM INTAKE	○ POWER POLE
TYPE SW-511 STORM INTAKE	○ STREET LIGHT
TYPE SW-512 STORM INTAKE	○ GUY ANCHOR
TYPE SW-513 STORM INTAKE	○ ELECTRIC TRANSFORMER
TYPE SW-401 STORM MANHOLE	○ GAS METER
TYPE SW-402 STORM MANHOLE	○ TELEPHONE RISER
TYPE SW-403 STORM MANHOLE	○ SIGN
TYPE SW-403 STORM MANHOLE	--- CATV --- UNDERGROUND TELEVISION
TYPE SW-301 SANITARY MANHOLE	--- UGE --- UNDERGROUND ELECTRIC
TYPE SW-302 SANITARY MANHOLE	--- G --- UNDERGROUND GAS
TYPE SW-304 SANITARY MANHOLE	--- UGFO --- UNDERGROUND FIBER OPTIC
STORM/SANITARY CLEANOUT	--- UGT --- UNDERGROUND TELEPHONE
WATER VALVE	--- OHN --- OVERHEAD ELECTRIC
FIRE HYDRANT ASSEMBLY	--- SAN --- SANITARY SEWER WITH SIZE
BLOW-OFF HYDRANT	--- ST --- STORM SEWER WITH SIZE
DETECTABLE WARNING PANEL	--- W --- WATER MAIN WITH SIZE
SANITARY SEWER WITH SIZE	--- 926 --- EXISTING CONTOUR
SANITARY SERVICE	--- TREELINE ---
STORM SEWER WITH SIZE	--- B.S.L. --- BUILDING SETBACK LINE
STORM SERVICE	--- P.U.E. --- PUBLIC UTILITY EASEMENT
WATER SEWER WITH SIZE	--- M.O.E. --- MINIMUM OPENING ELEVATION
WATER SERVICE	--- C.C.# --- CRITICAL CROSSING
PROPOSED CONTOUR	--- C.C.# --- CRITICAL CROSSING LOCATION
SILT FENCE	
RIP RAP	
ADDRESS	



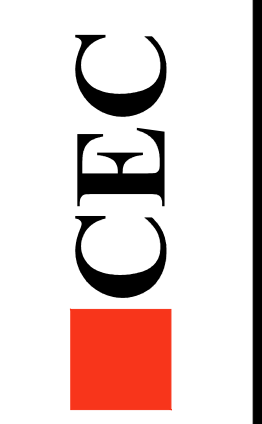
CERTIFICATION



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.

Cody T. Weaver 07-14-2020
CODY T. WEAVER, IOWA LIC. NO. 25085 DATE MY LICENSE RENEWAL DATE IS DECEMBER 31, 2020
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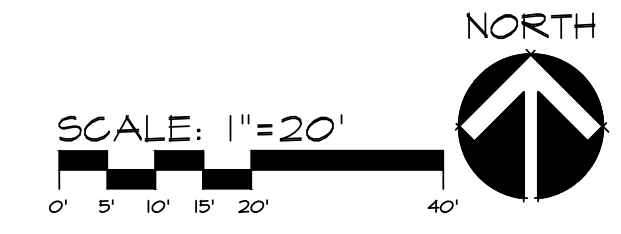
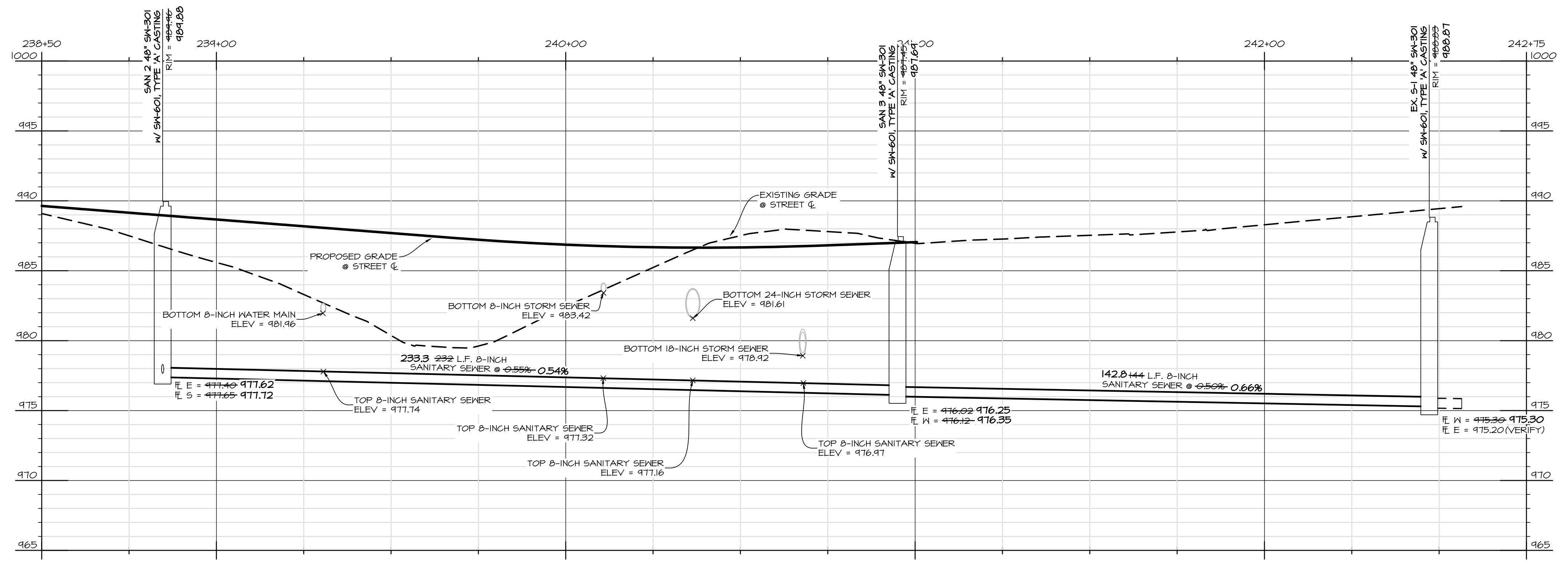
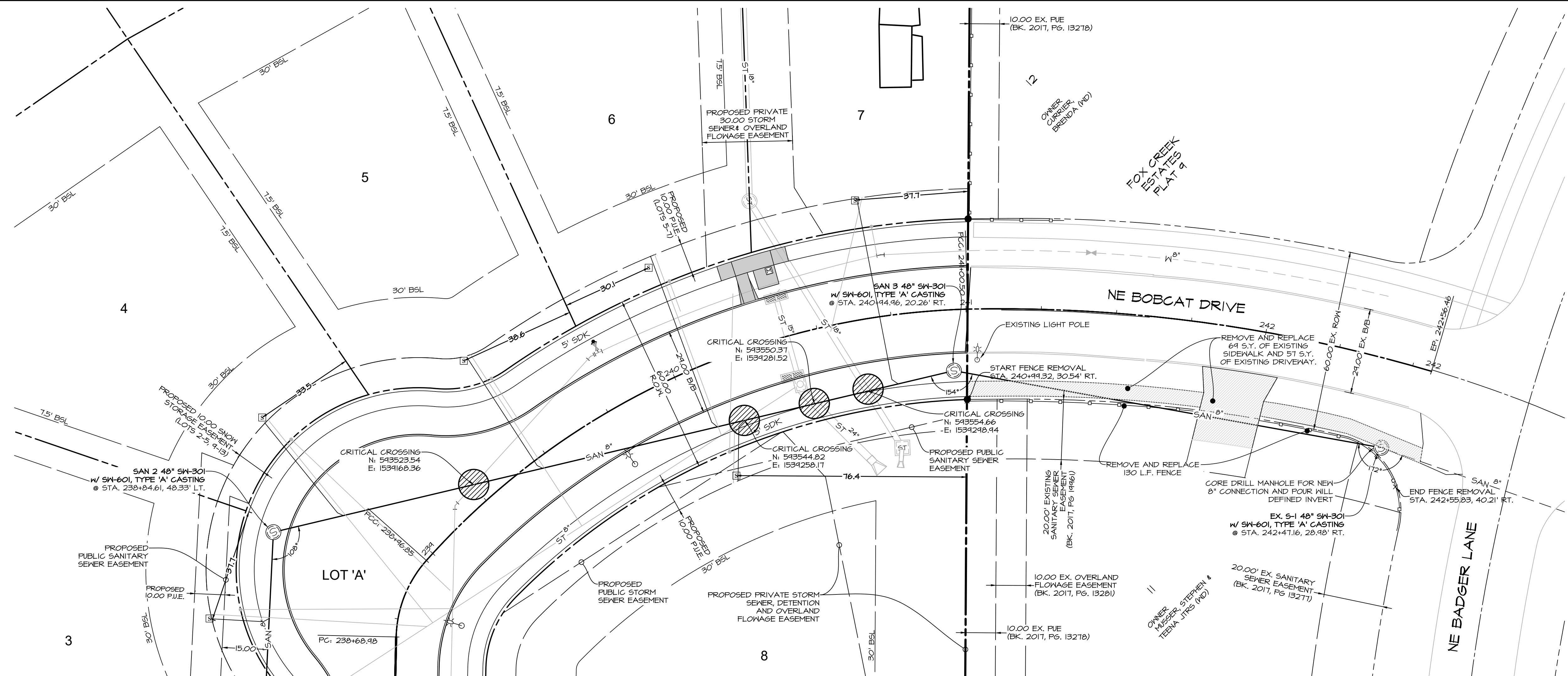
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2400 86th Street Unit 12 Des Moines, Iowa 50322
515.276.4884 Fax: 515.276.7084 mail@cec.iac.com



DATE: ASBUILT 7-14-2020	8-19-2019 - FINAL
8-16-2019 - 5TH SUBMITTAL	
8-15-2019 - 4TH SUBMITTAL	
07-24-2019 - 3RD SUBMITTAL	
DATE OF SURVEY: 08/14/2019	ASP
DESIGNED BY: [Signature]	DRAIN BY: [Signature]

ALYVIA - PLAT 1
WAUKEE, IOWA
COVER

SHEET 0 OF 21
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DRAWN BY:		CM

ALYVIA - PLAT 1
 WAUKEE, IOWA

SANITARY SEWER PLAN

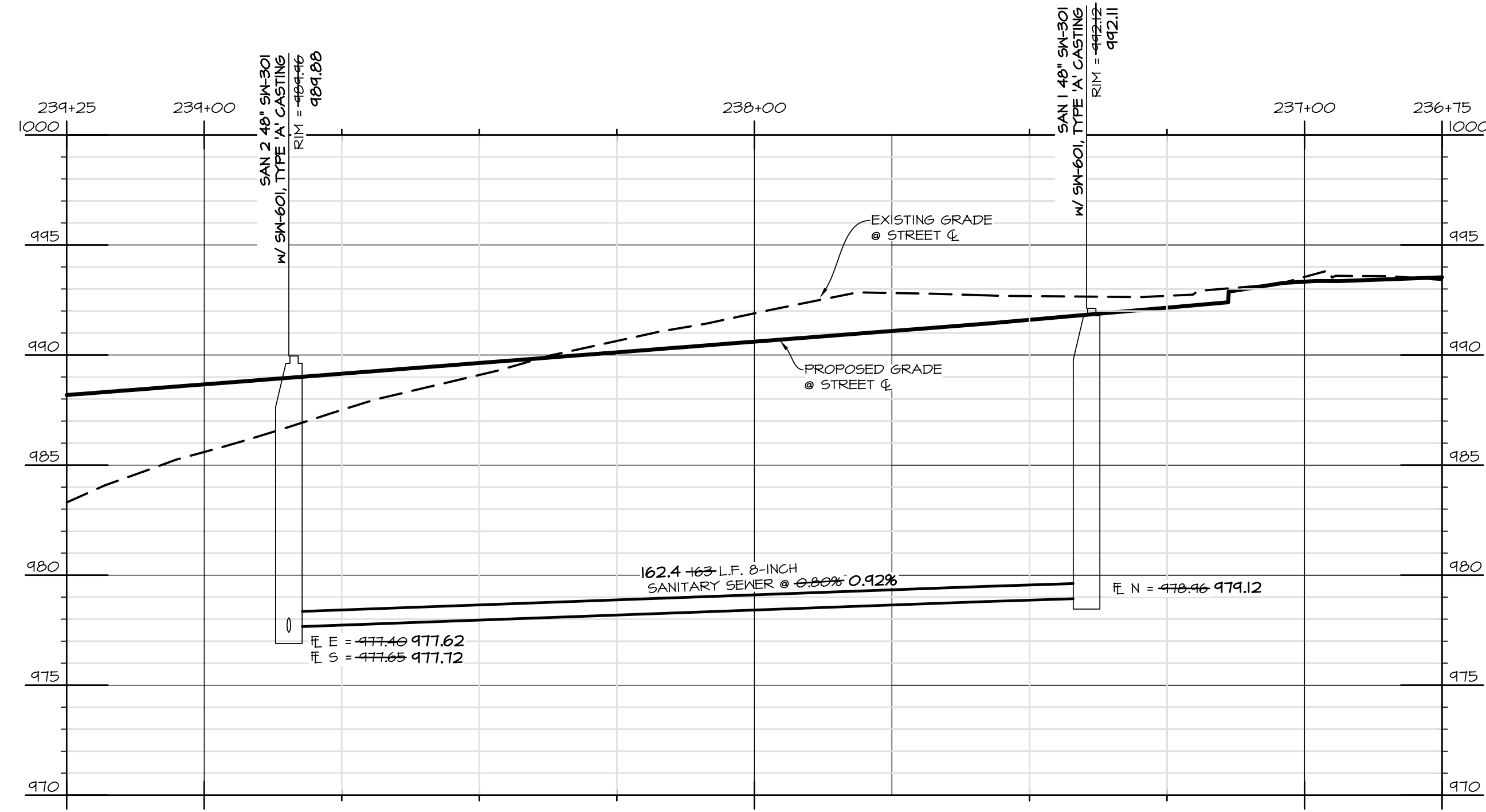
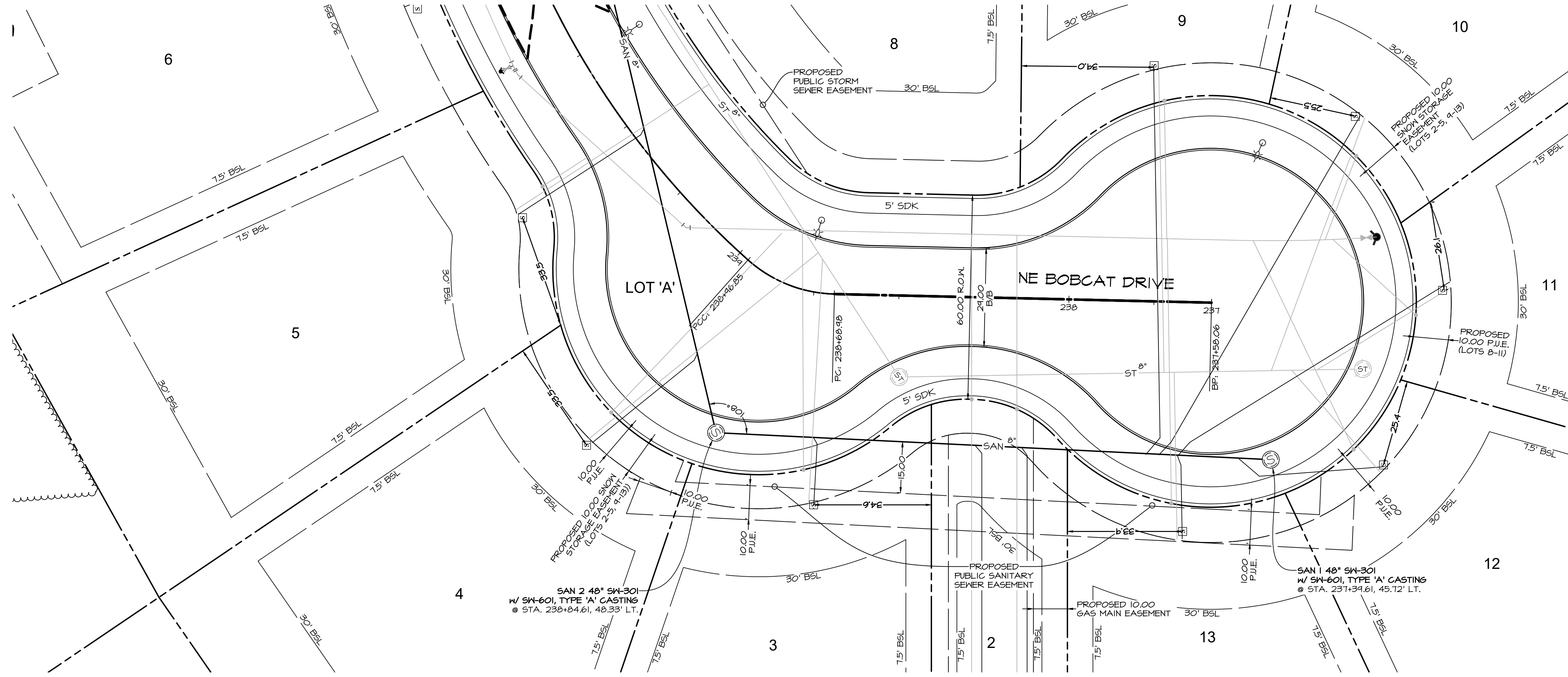
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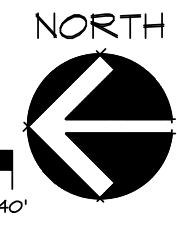
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SCALE: 1"=20'



ALYVIA - PLAT 1
WAUKEE, IOWA
SANITARY SEWER PLAN

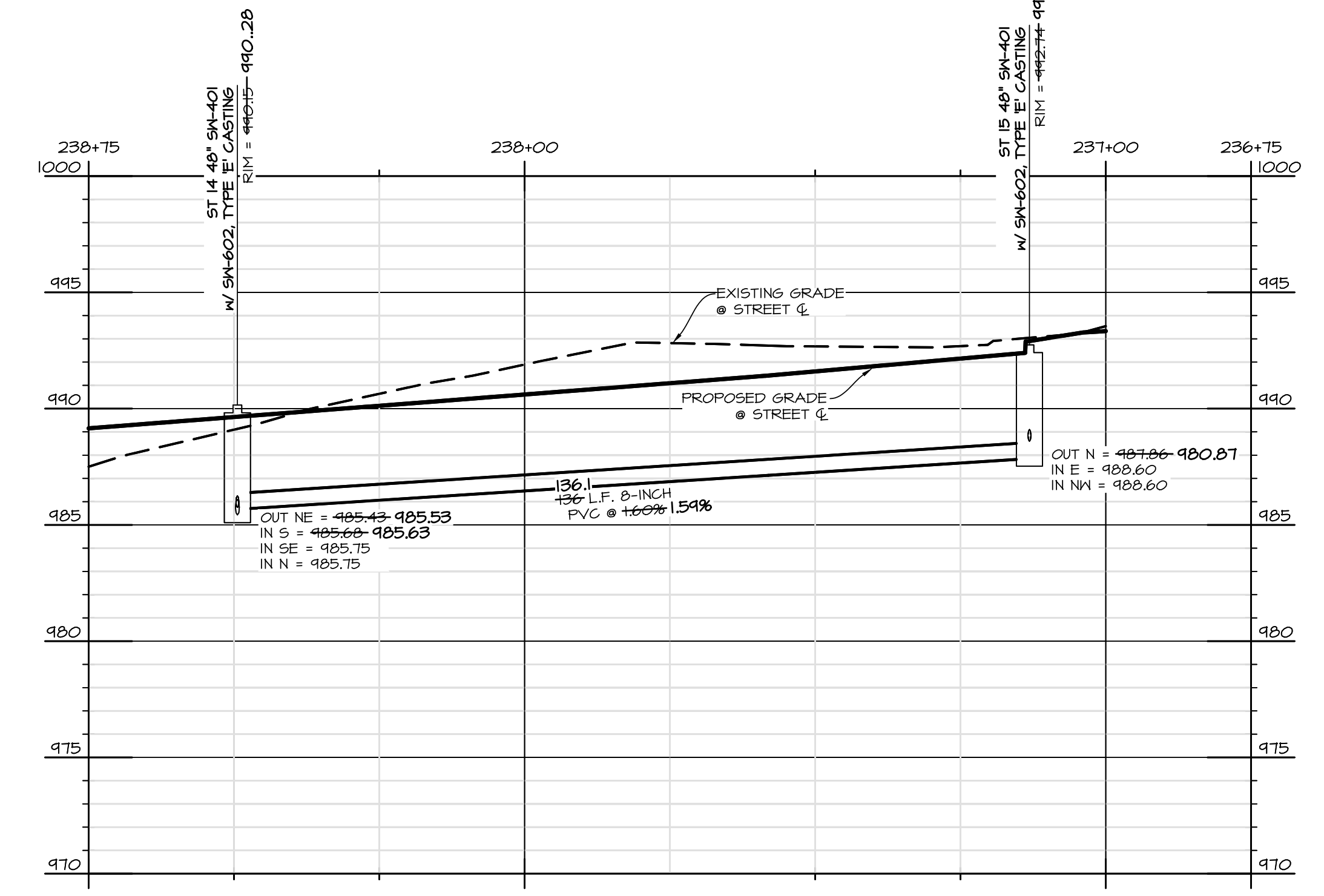
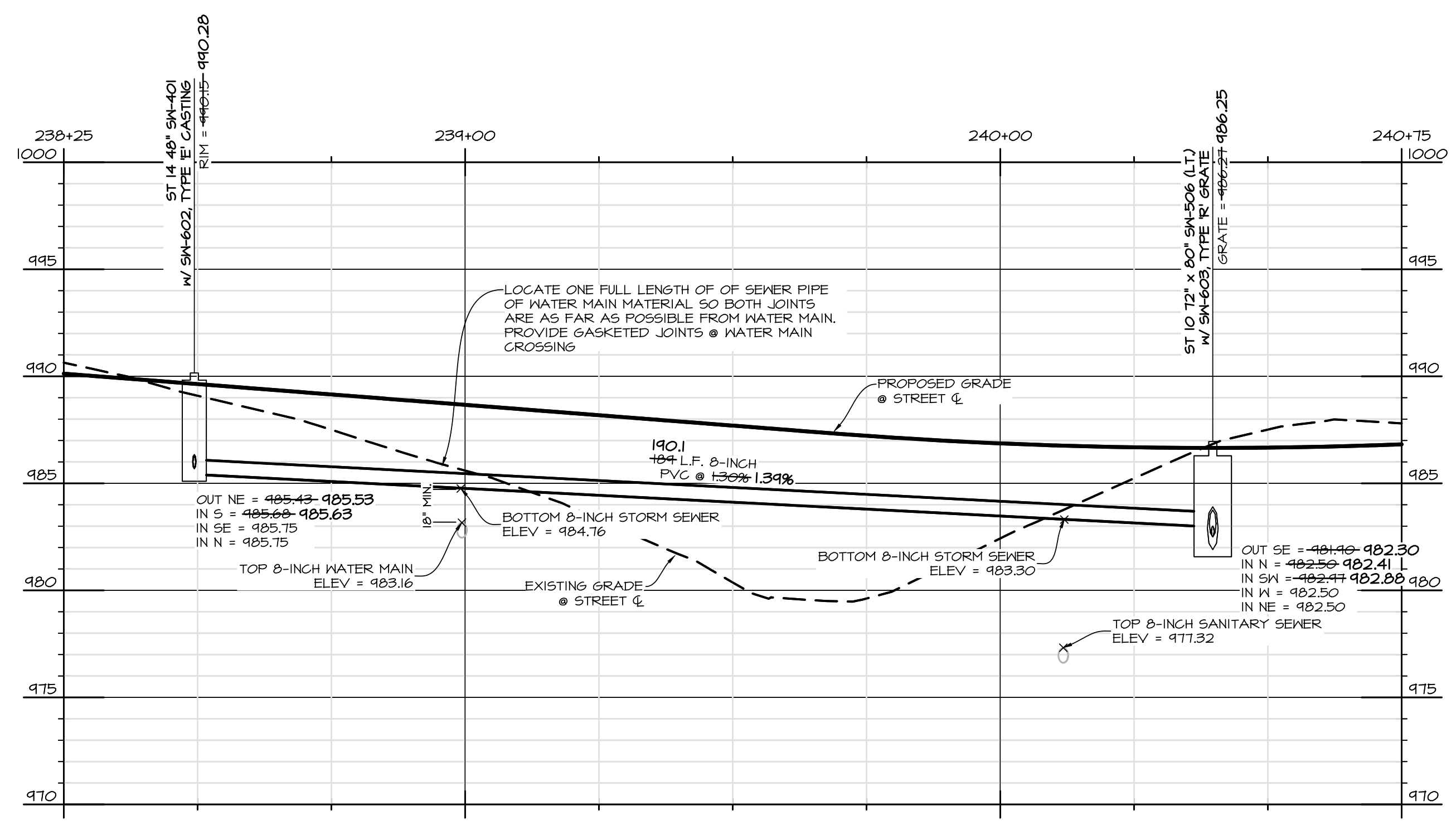
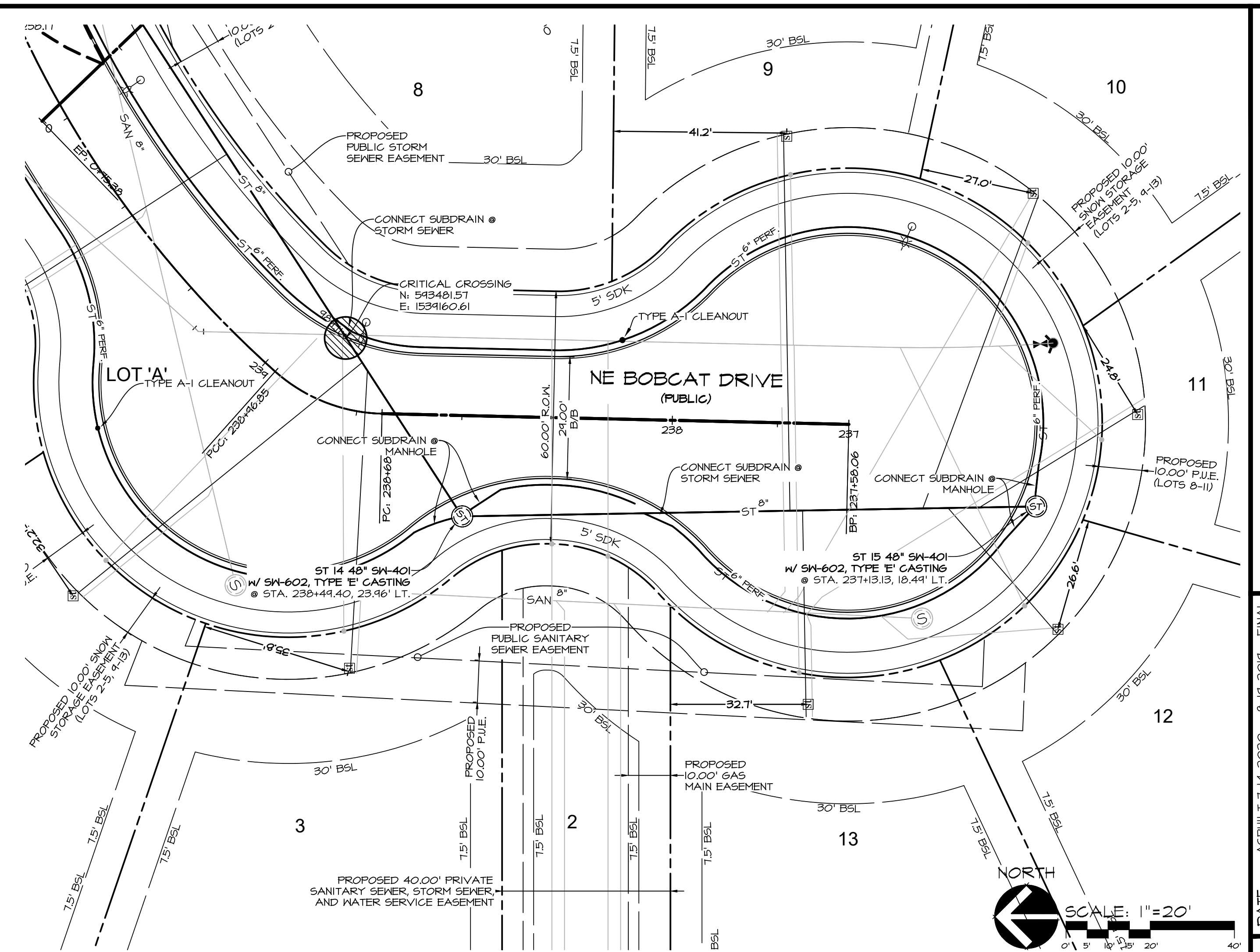
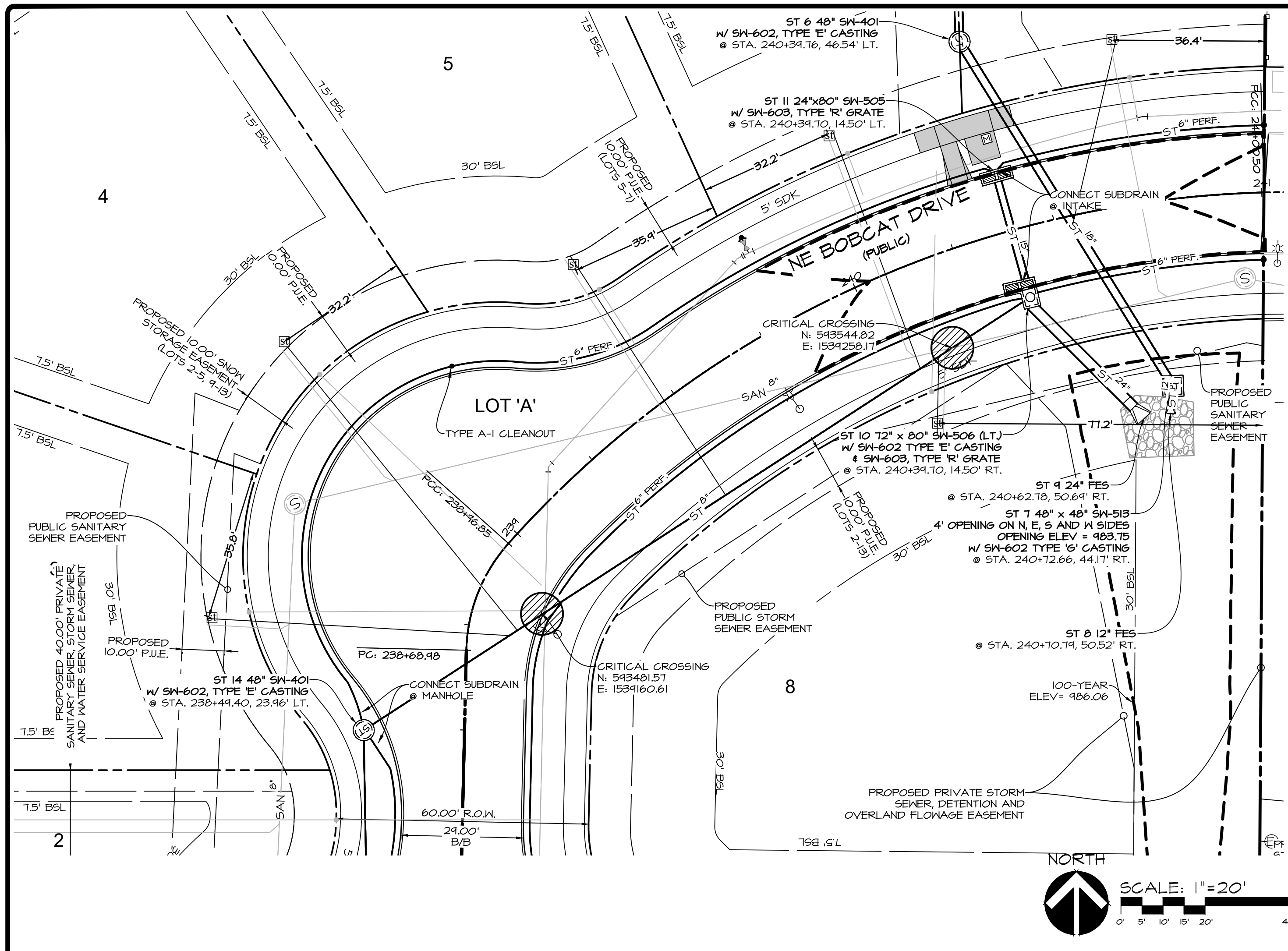
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2400 86th Street Unit 12 Des Moines, Iowa 50322
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CEC

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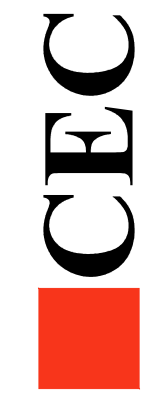
ALYVIA - PLAT 1
 WAUKEE, IOWA

STORM SEWER PLAN

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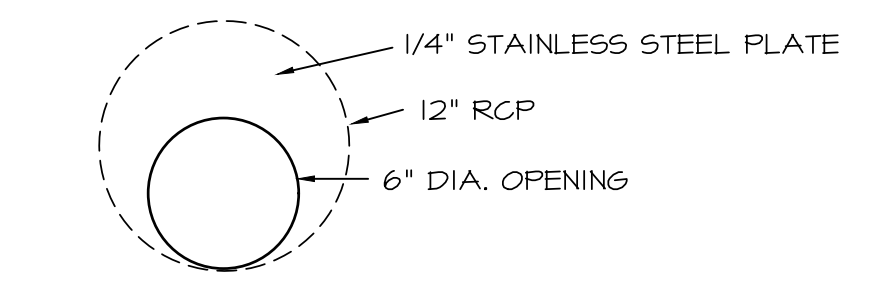
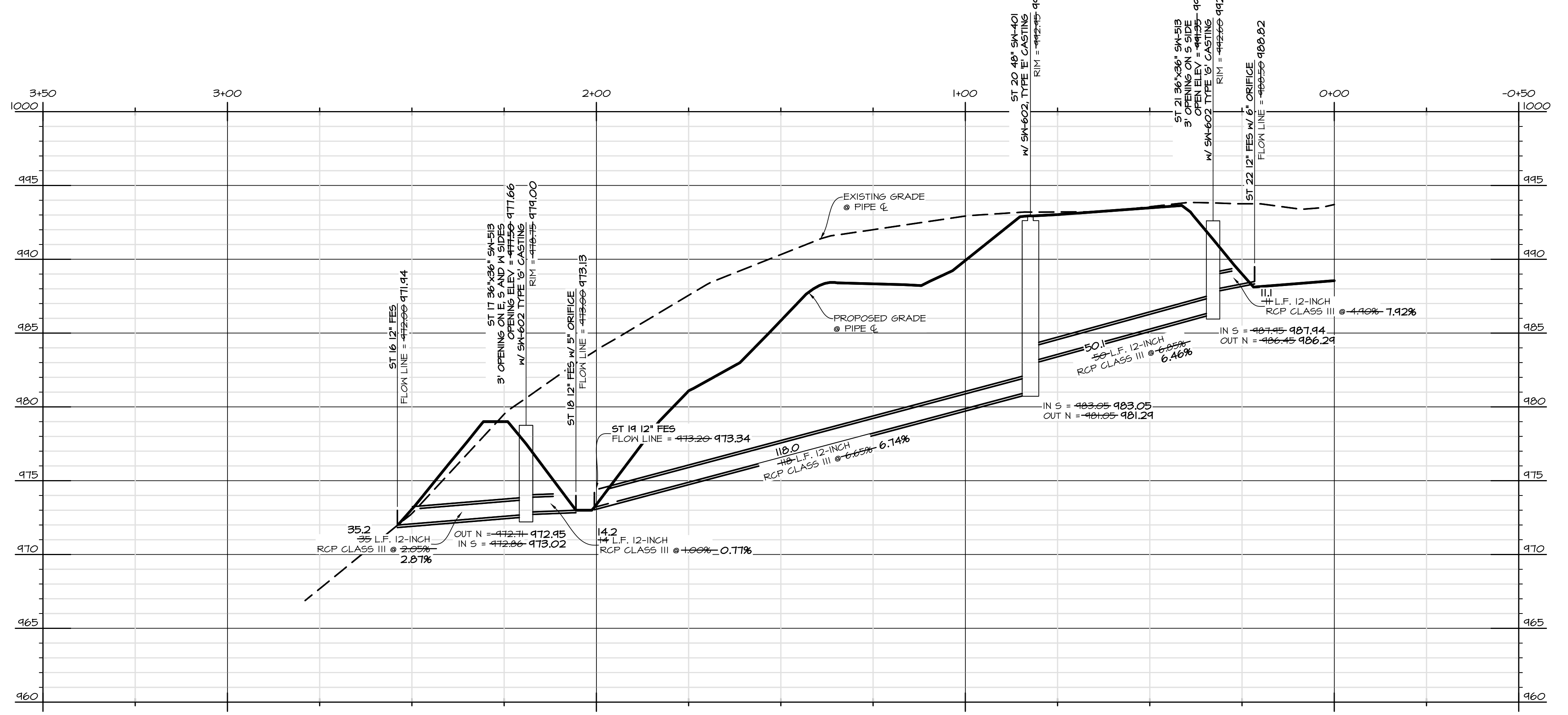
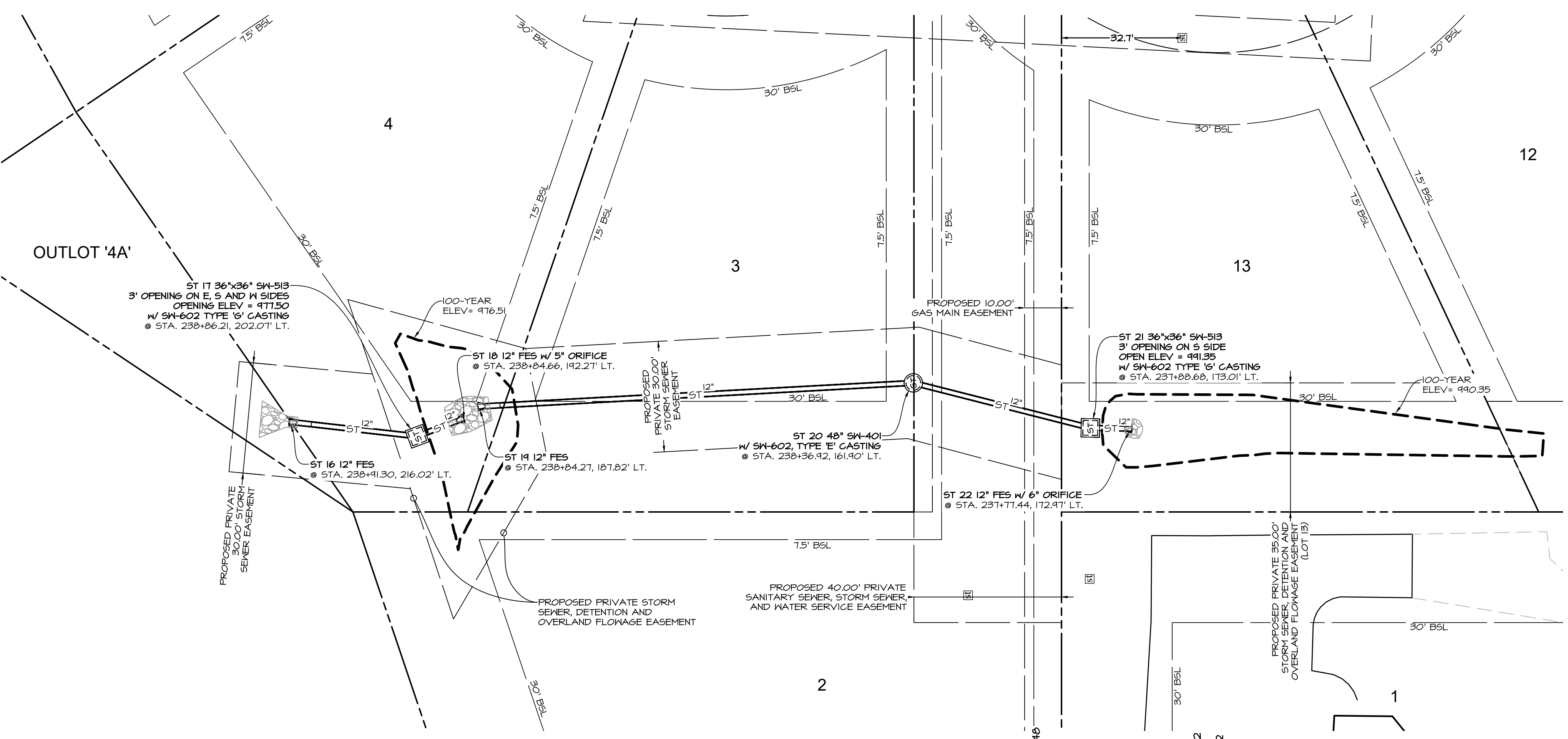
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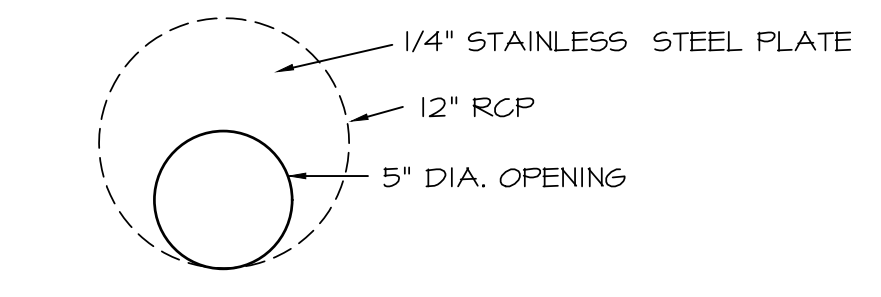
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	8-16-2019 - 5TH SUBMITTAL	
	8-15-2019 - 4TH SUBMITTAL	
DATE OF SURVEY:	07-24-2018 - 3RD SUBMITTAL	08/14/2018
DESIGNED BY:		ARP
DRAWN BY:		CM

ALYVIA - PLAT I
 WAUKEE, IOWA
 STORM SEWER PLAN

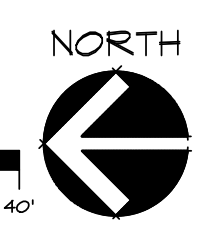
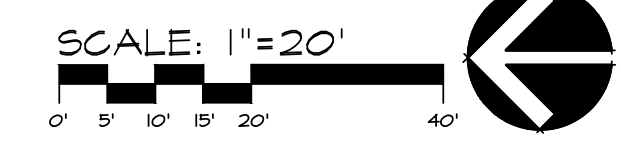
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 A1883



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

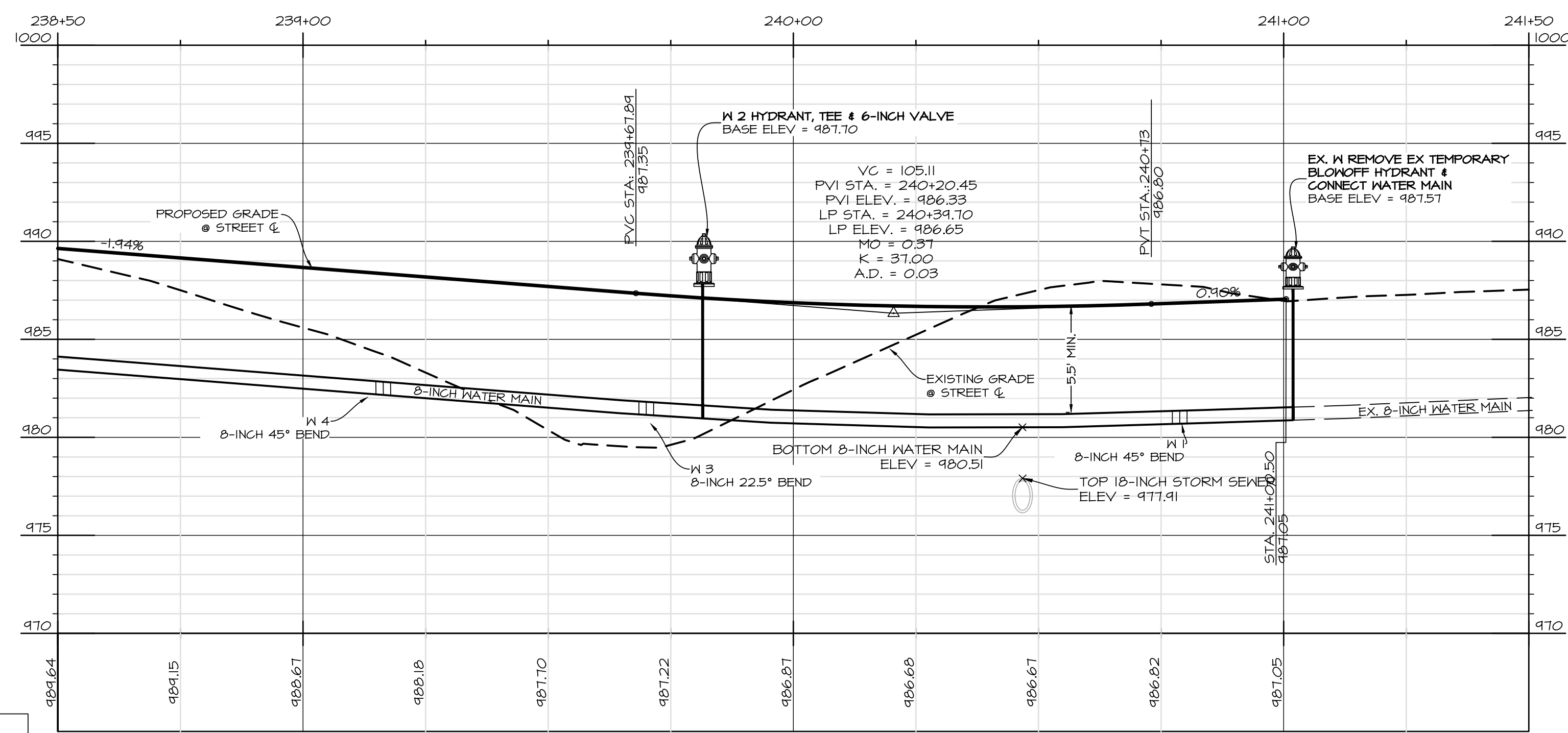
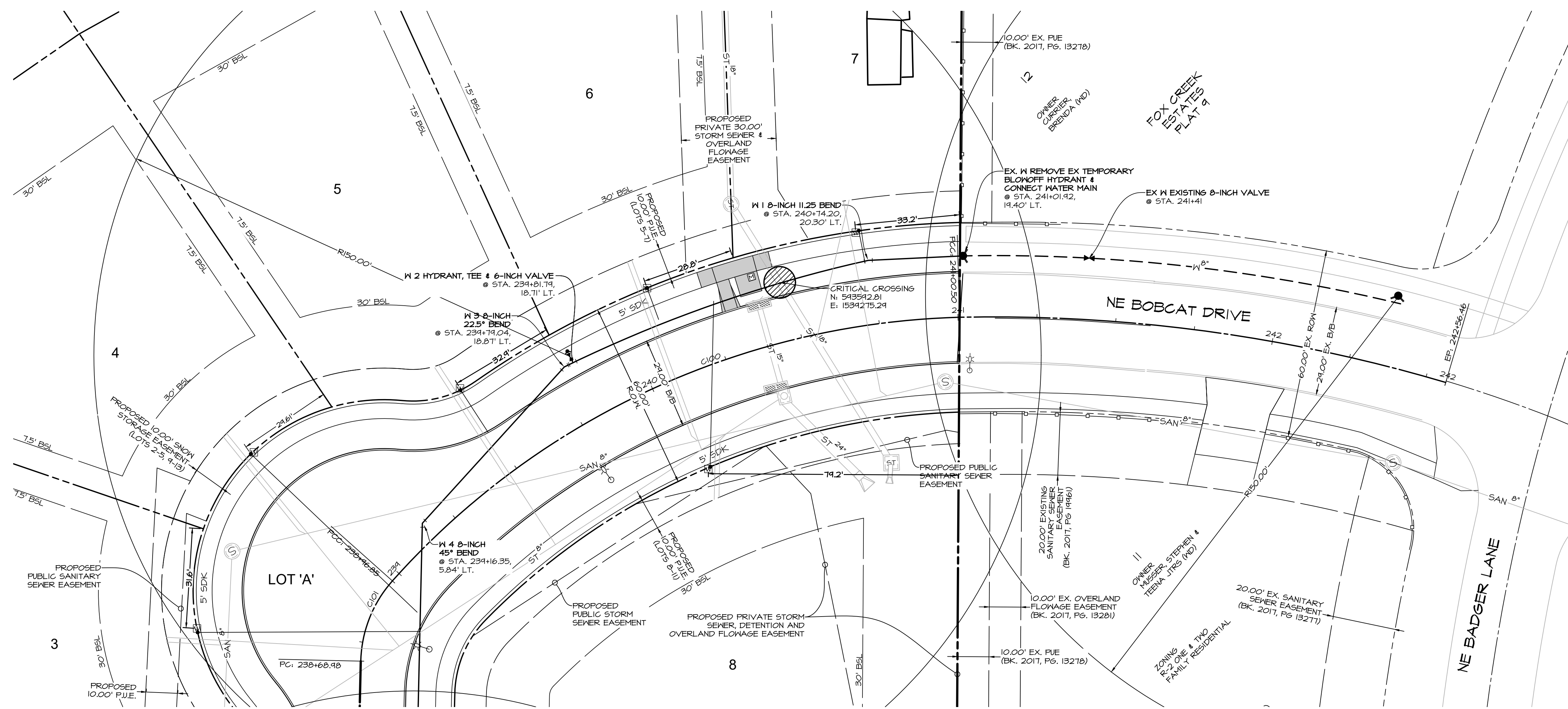


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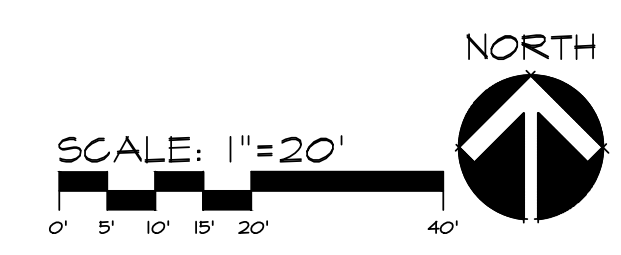


PLOT BY: CODY MEYER AN5 EXPAND D (84.00 X 22.00 INCHES) 2020-07-14 11:11 AUTOCAD PDF (GENERAL DOCUMENTATION) PC3

G:\A-FILES\A-1883\1883_cdr.dwg\p\A5\A5_Sewer.dwg 7 STORM SEWER PLAN 7/14/2020 10:58:12 AM cmeier; AutoCAD PDF (General Documentation) pc3; ANSI expand D (84.00 x 22.00 inches); 1:1



CENTERLINE CURVE DATA						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CH. BEARING
C101	040°25'31"	34.50'	21.87'	14.54'	27.24'	N21°31'22"E
C100	046°40'22"	250.00'	203.65'	107.86'	198.06'	N65°04'18"E



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DATE: ASBUILT 7-14-2020 8-19-2019 - FINAL
8-16-2019 - 5TH SUBMITTAL
8-15-2019 - 4TH SUBMITTAL
07-24-2019 - 3RD SUBMITTAL
08/14/2019
ARP
CMT

DATE OF SURVEY:
DESIGNED BY:
DRAWN BY:

ALYVIA - PLAT 1
WAUKEE, IOWA

WATER MAIN & PAYING PLAN

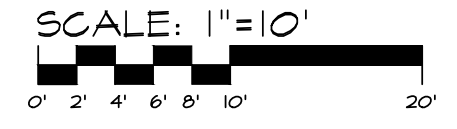
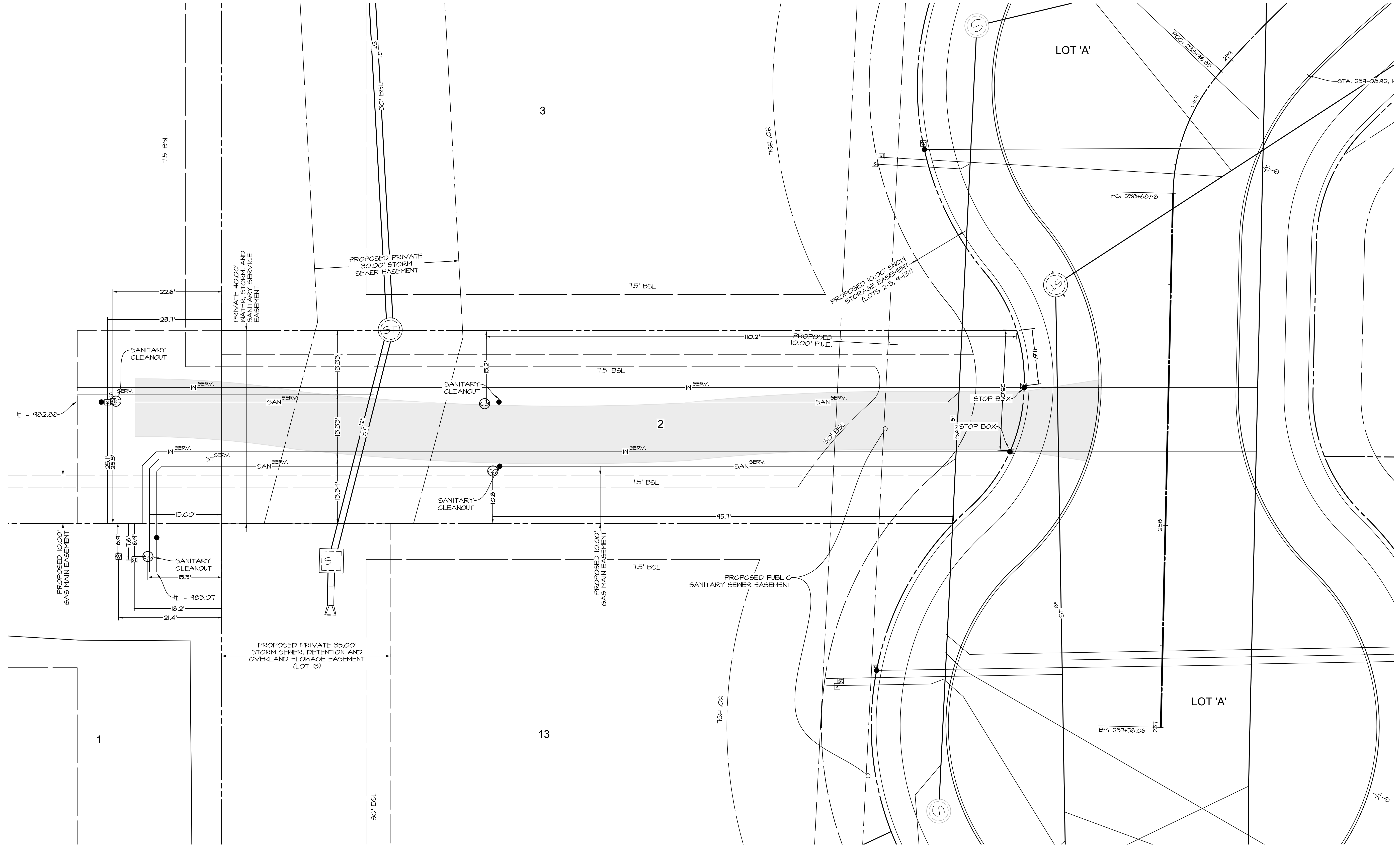
SHEET
OF 21

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PLOT BY: CODY MEYER AN5 EXPAND D (84.00 X 22.00 INCHES) 2020-07-14 11:11 AUTOCAD PDF (GENERAL DOCUMENTATION) P23
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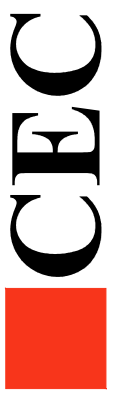
ALYVIA - PLAT 1
WAUKEE, IOWA

LOT 1 & 2 SERVICE DETAIL

SHEET
OF 21

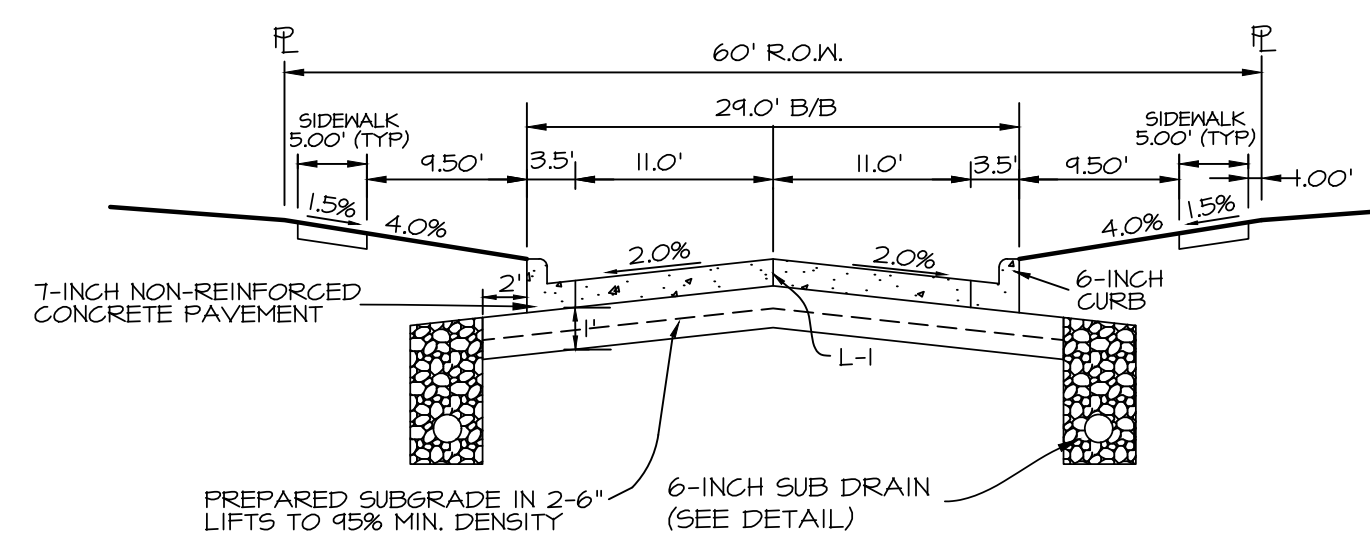
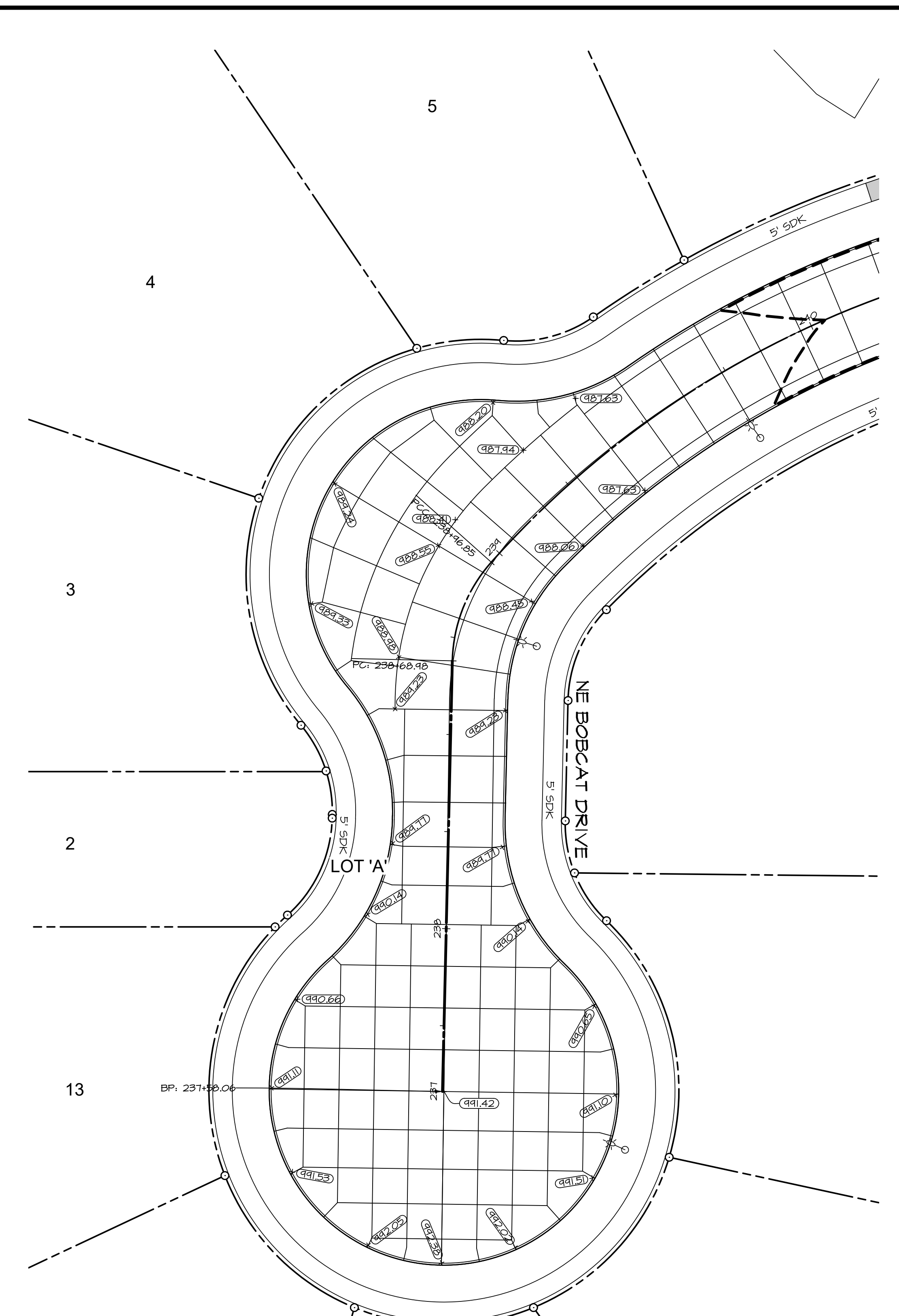
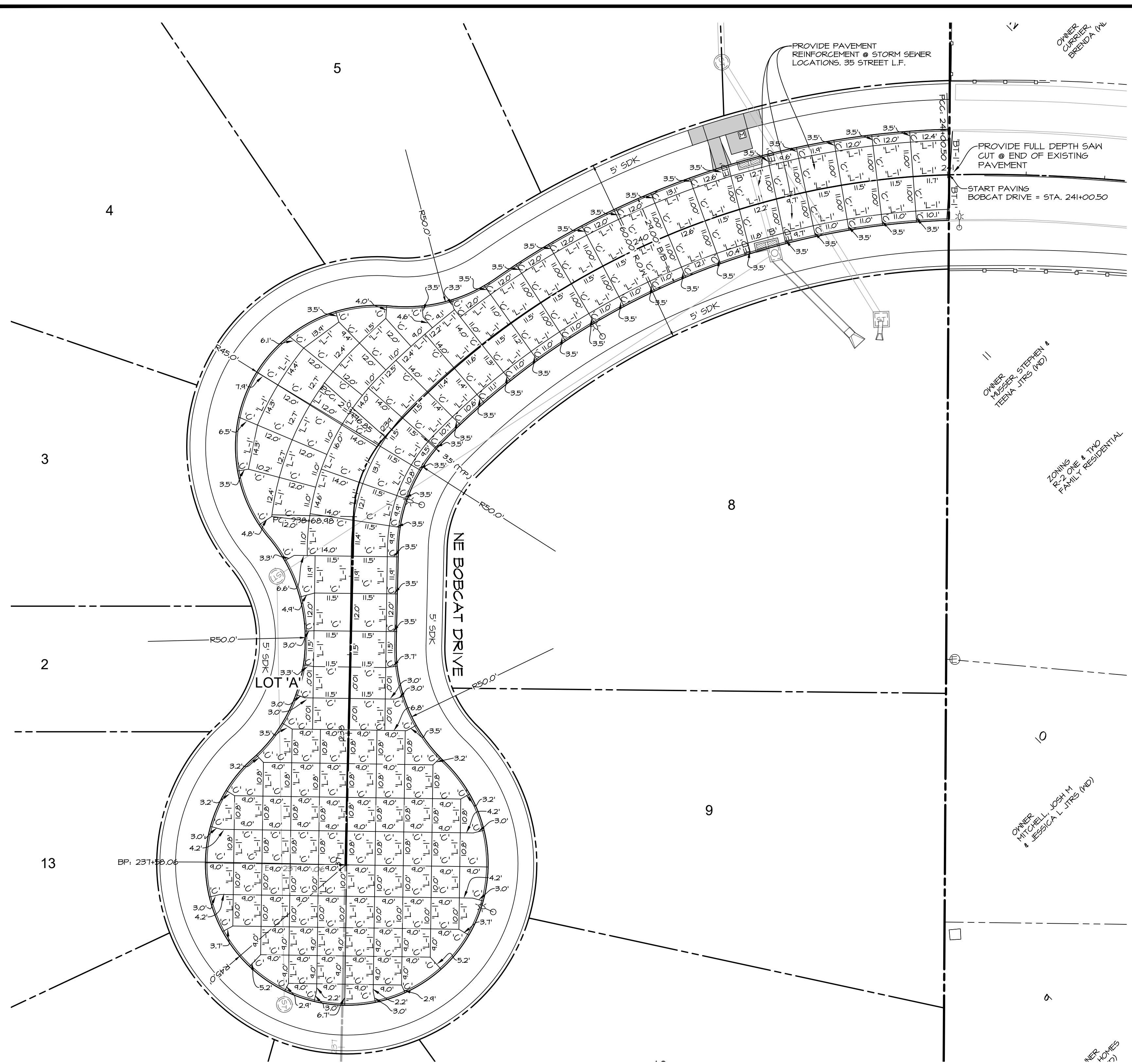
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DATE:	ASBUILT 7-14-2020	8-19-2019 - FINAL
	8-16-2019 - 5TH SUBMITTAL	
	8-15-2019 - 4TH SUBMITTAL	
DATE OF SURVEY:	07-24-2019 - 3RD SUBMITTAL	08/14/2019
DESIGNED BY:		ARP
DRAWN BY:		CM

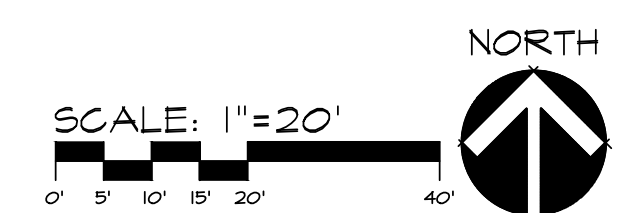
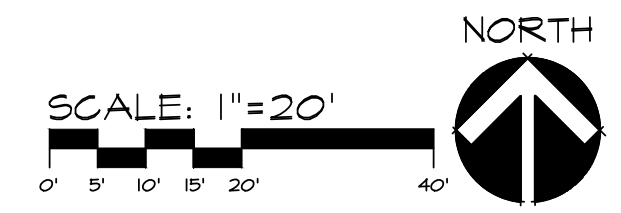


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PLOT BY: CODY MEYER AN51 EXPAND D (84.00 X 22.00 INCHES) 2020-07-14 11:11 AUTOCAD PDF (GENERAL DOCUMENTATION) PCS



TYPICAL 24' B/B CROSS SECTION
NO SCALE



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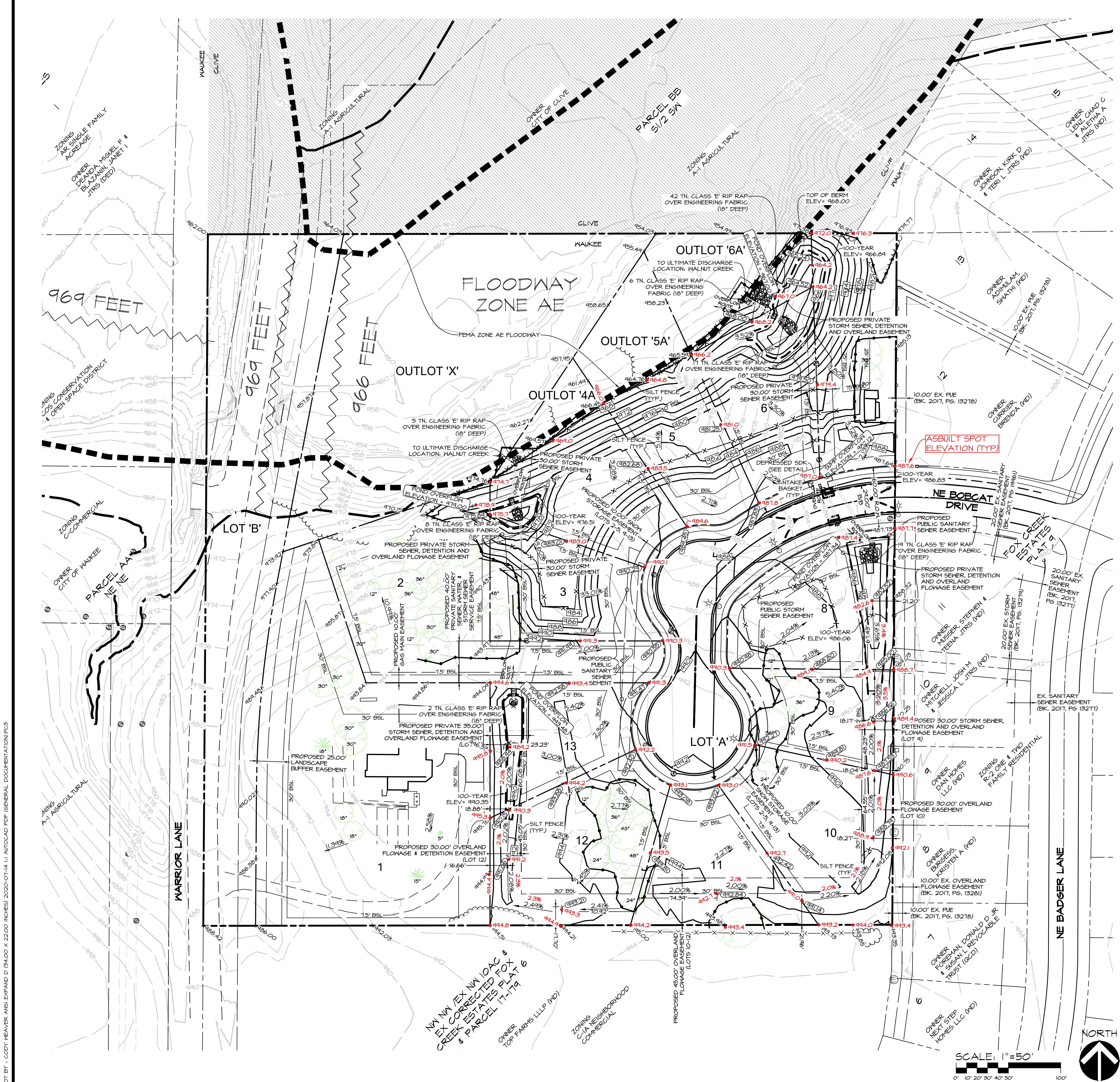
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	8-15-2019 - 4TH SUBMITTAL	
	07-24-2019 - 3RD SUBMITTAL	
DATE OF SURVEY:	08/14/2019	ARP
DESIGNED BY:		CM
DRAWN BY:		

ALYVIA - FLAT 1
WAUKEE, IOWA

PAVEMENT DETAILS

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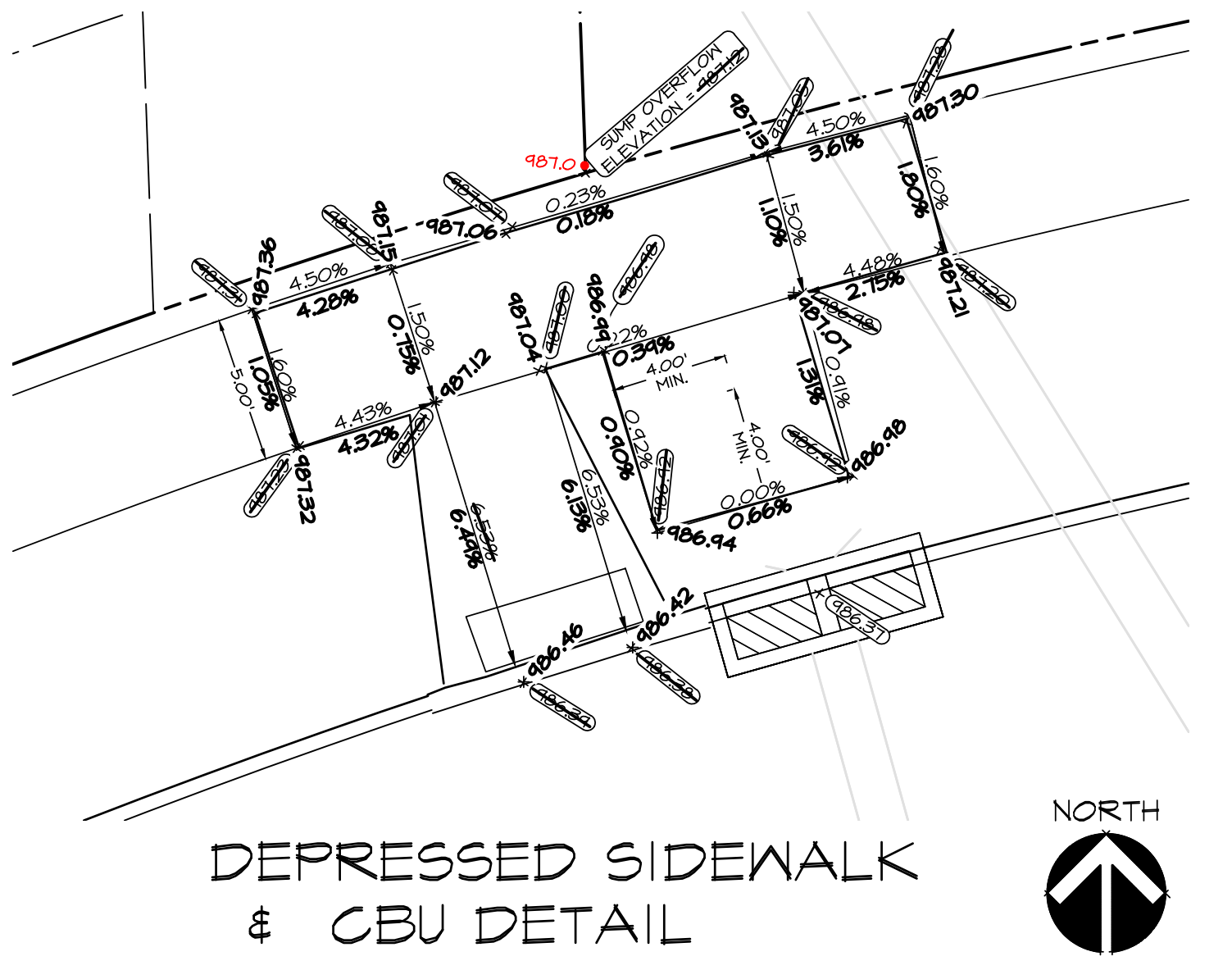
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ELEVATIONS		
LOT NUMBER	MINIMUM PROTECTION ELEVATION (M.P.E.)	MINIMUM OPENING ELEVATION (M.O.E.)
1	994.80	REFER TO THE SPOT ELEVATIONS AND CONTOURS SHOWN. OPENINGS SHOULD BE A MINIMUM OF ONE FOOT HIGHER THAN THE ADJACENT GRADE AT THE FRONT OR SIDE 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	990.00	
10	993.00	
11	995.00	
12	994.80	
13	994.80	

- 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.

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	



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8-15-2019 - 4TH SUBMITTAL
07-24-2019 - 3RD SUBMITTAL
09/14/2019 ARP
DESIGNED BY: CM
DRAWN BY: CM

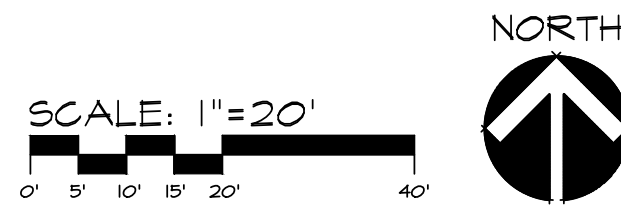
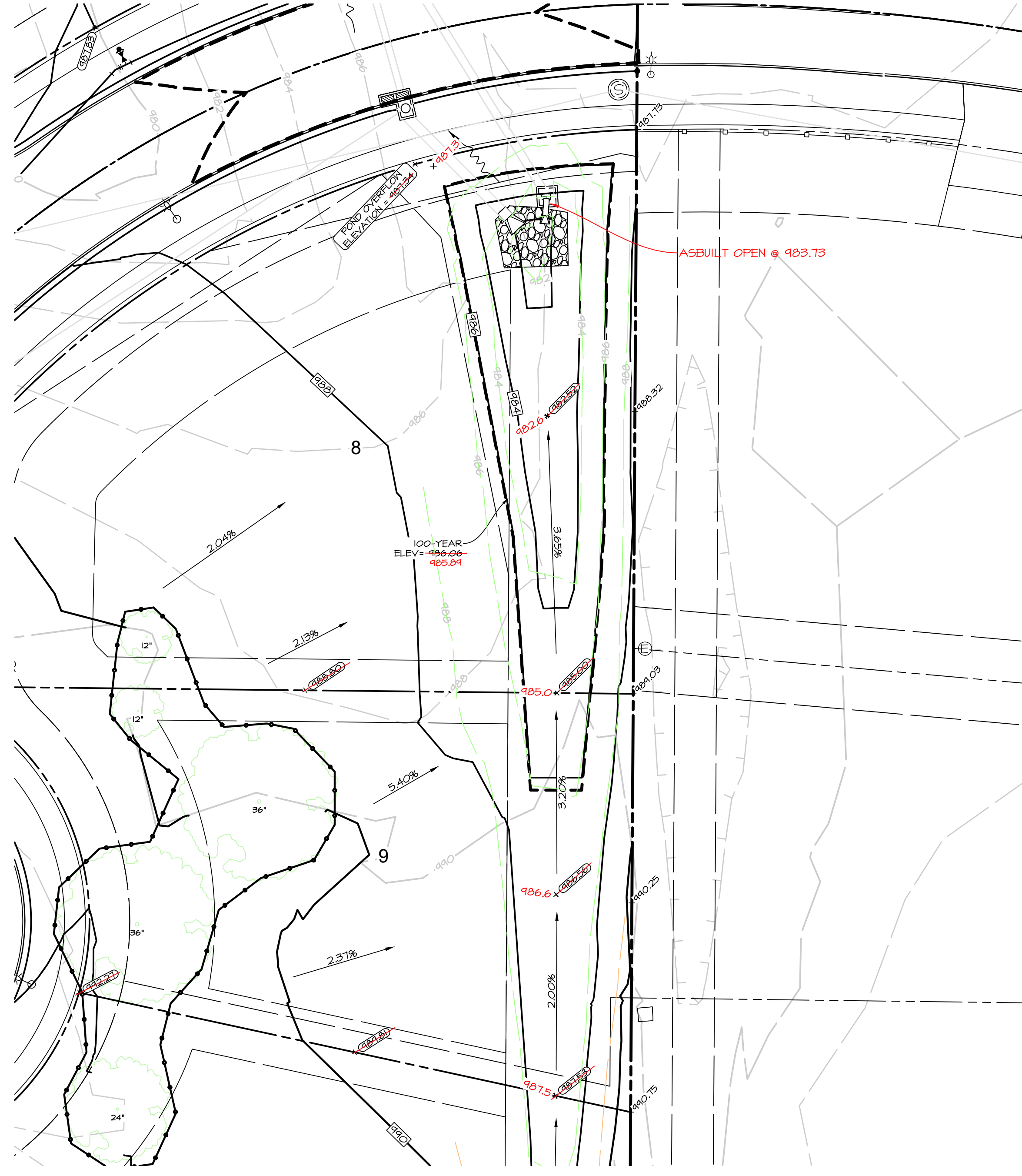
ALYVIA - FLAT 1
WAUKEE, IOWA

GRADING PLAN

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G:\A-FILES\A-1820\1820_cdr.dwg (1820) - Ais - Asbuilt Survey\ASBUILT DRAWINGS\89\89.plt\Case6\POND.dwg, SE POND, 7/14/2020 11:02:24 AM, creator: AutoCAD PLOT (General Documentation)pc3, ANSI expand D (34.00 x 22.00 inches), 1:1

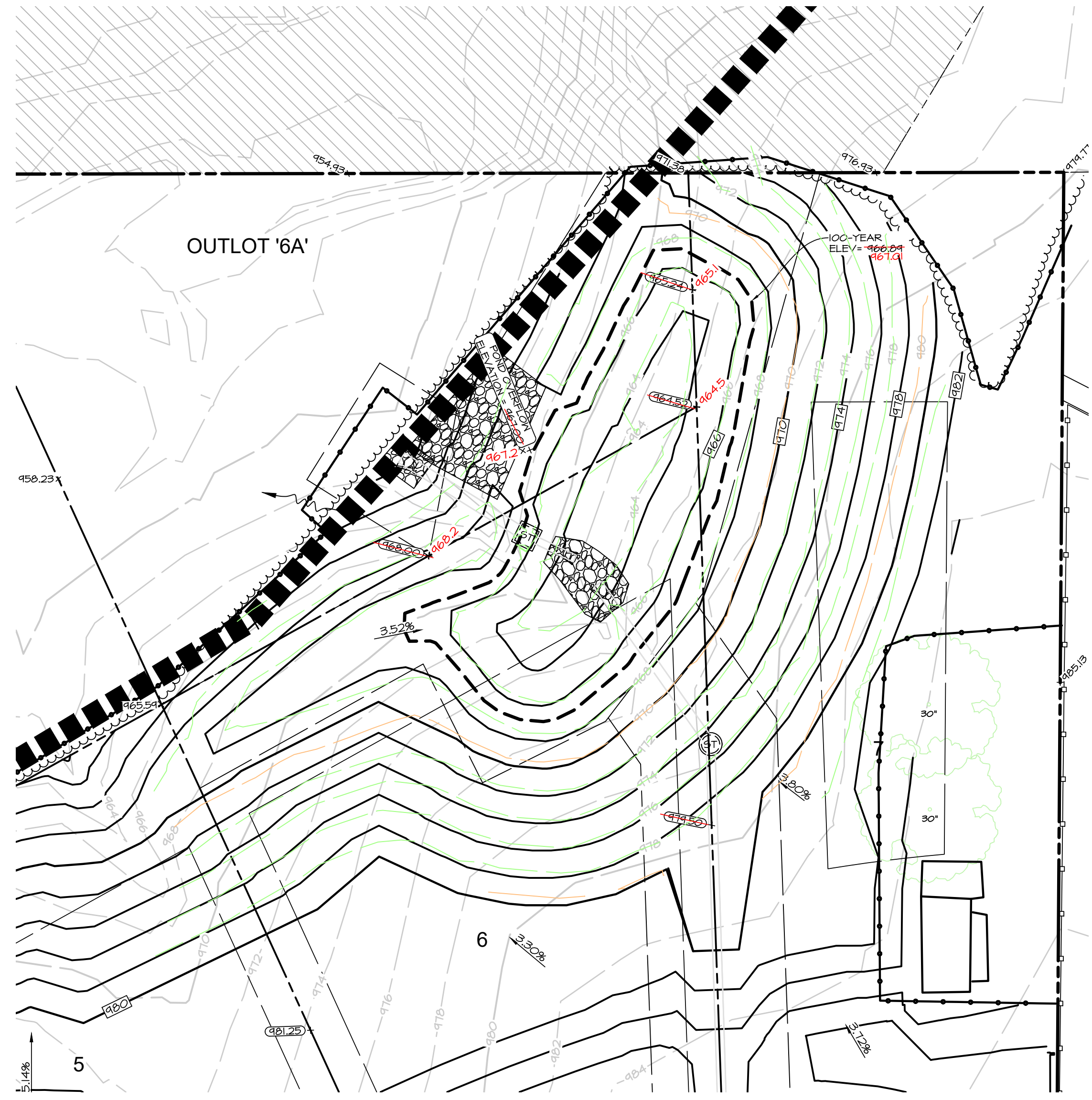
PLOT BY: CODY MEYER ANSI EXPAND D (34.00 X 22.00 INCHES) 2020-07-14 11:11 AUTOCAD PLOT (GENERAL DOCUMENTATION)PC3



ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
981.60	0	N/A	N/A	0
982.00	157	0.40	31	31
983.00	824	1.00	490	522
984.00	1579	1.00	1202	1723
985.00	2447	1.00	2013	3736
986.00	3621	1.00	3034	6770
987.00	5420	1.00	4520	11291
987.30	6030	0.30	1717	13008

REQUIRED STORAGE @ 100 YR = 7,028 CF

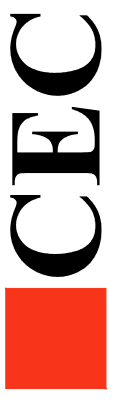
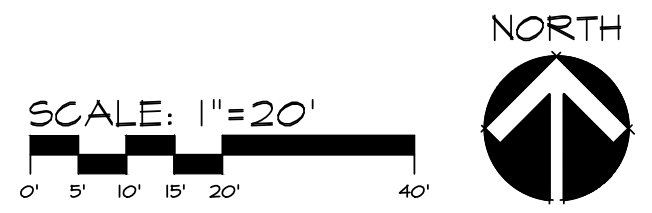
ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
981.71	31	N/A	N/A	0
982.00	97	0.30	19	19
983.00	881	1.00	489	508
984.00	1673	1.00	1277	1784
985.00	2751	1.00	1531	3982
985.36	3189	0.36	1069	5052
986.00	4095	0.64	2331	7383
986.83	5686	0.83	4035	11418



ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
963.00	335	N/A	N/A	0
964.00	1058	1.00	697	697
965.00	1833	1.00	1446	2142
966.00	2716	1.00	2275	4417
967.00	3772	1.00	3244	7661
968.00	5376	1.00	4574	12235

REQUIRED STORAGE @ 100 YR = 7,316 CF

ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
963.00	36	0	0	0
964.00	815	1.00	310	310
965.00	1848	1.00	1297	1607
966.00	2727	1.00	2273	3880
967.00	3850	1.00	3272	7152
967.19	4136	0.19	758	7910

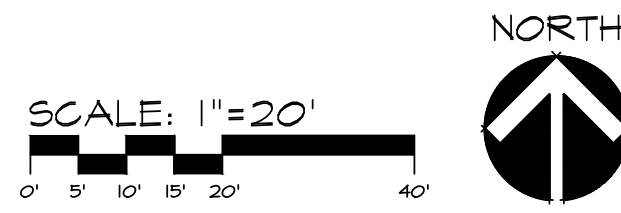
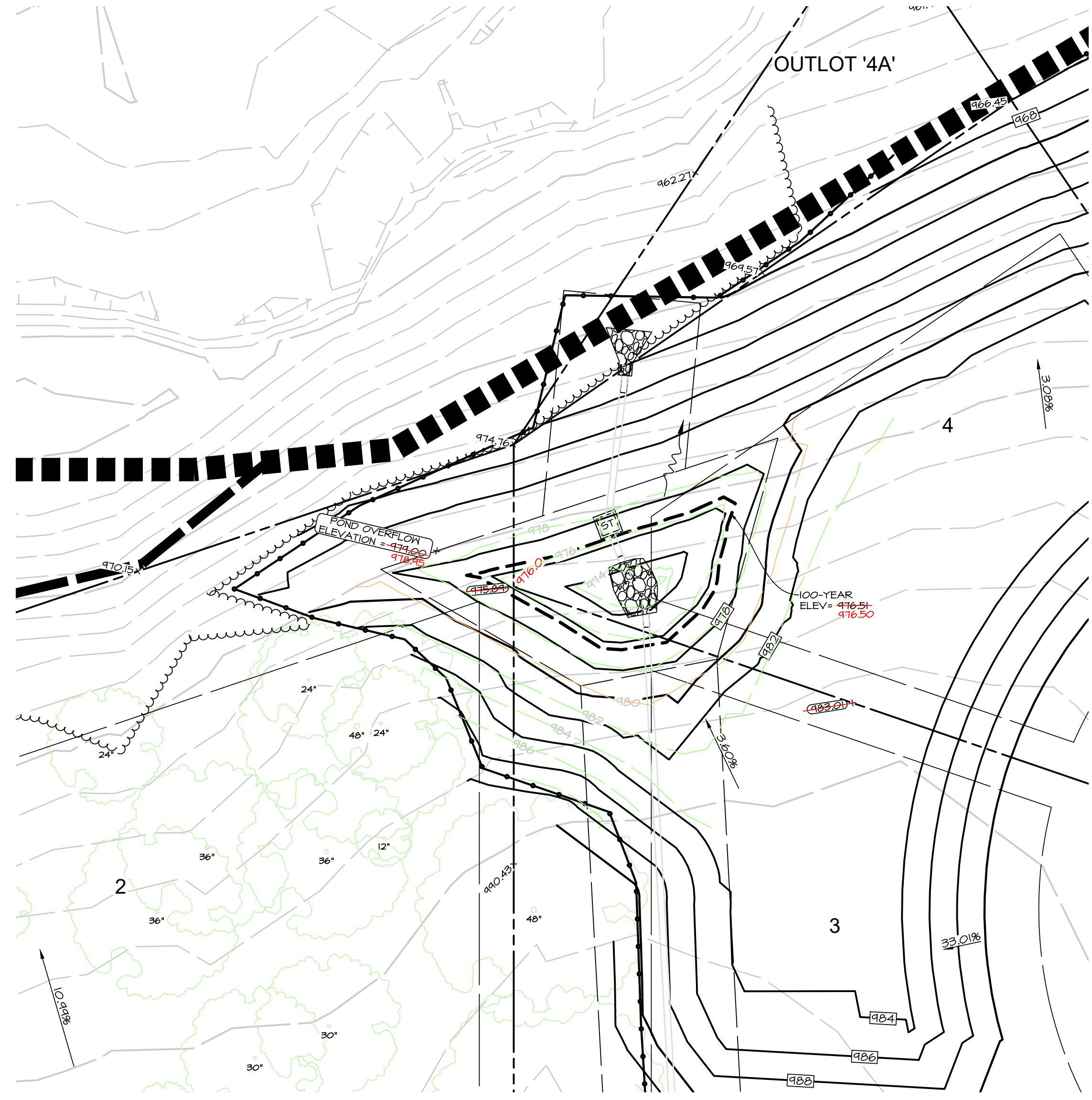


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 07-24-2019 - 3RD SUBMITTAL
 DATE OF SURVEY: 08/14/2019
 DESIGNED BY: ARP
 DRAWN BY: CM

ALYIA - PLAT I
 WAUKEE, IOWA
 NE POND ASBUILT

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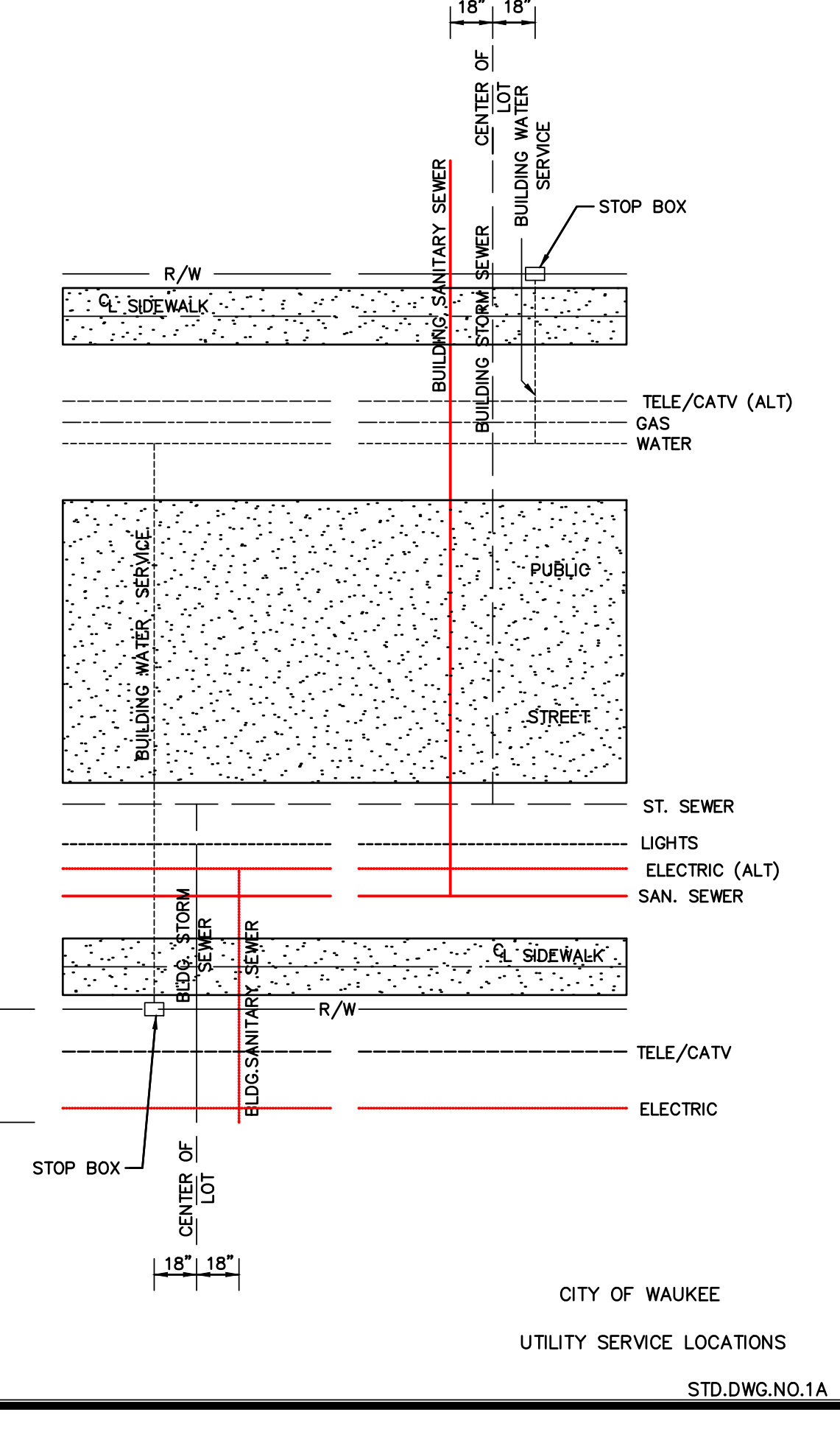
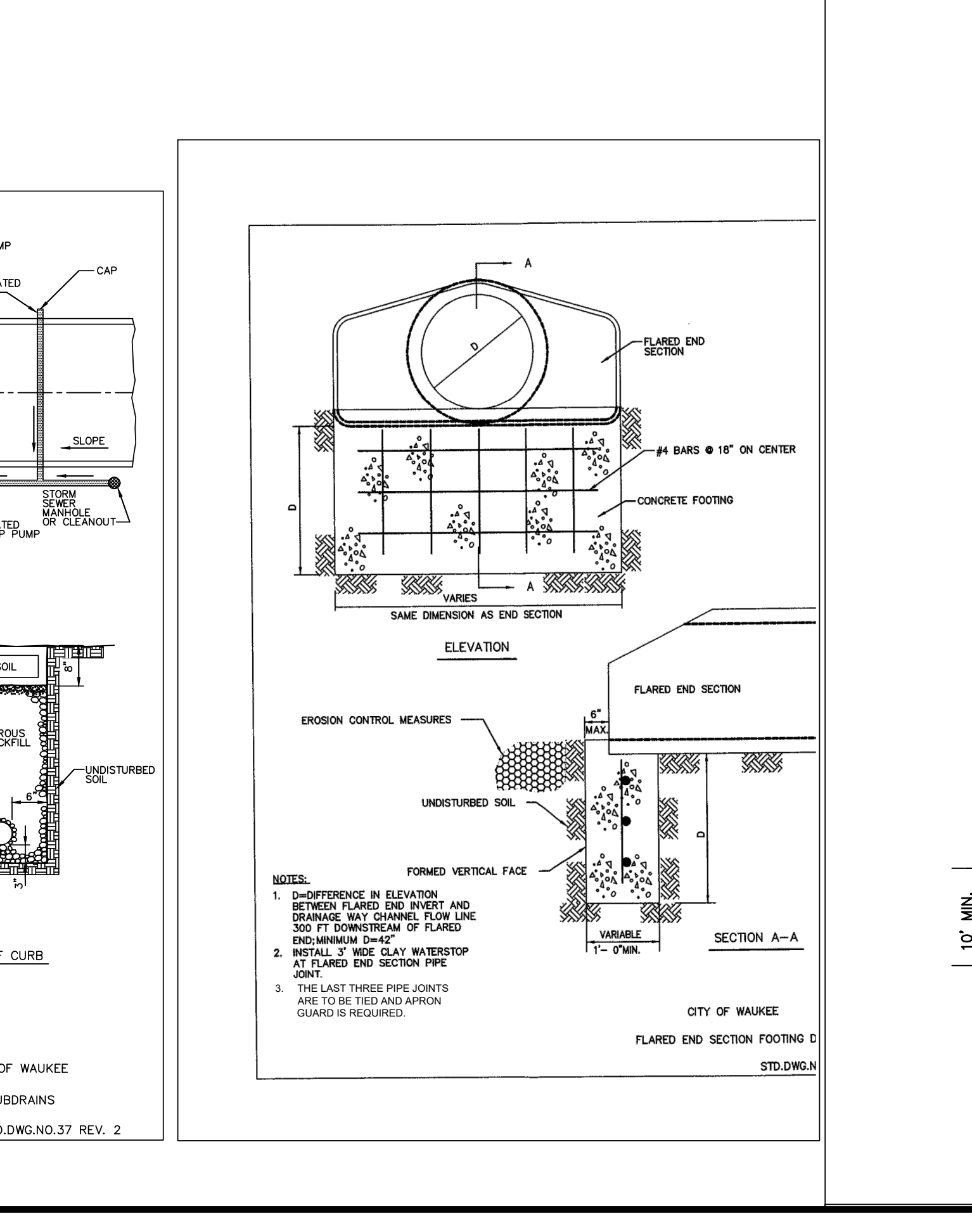
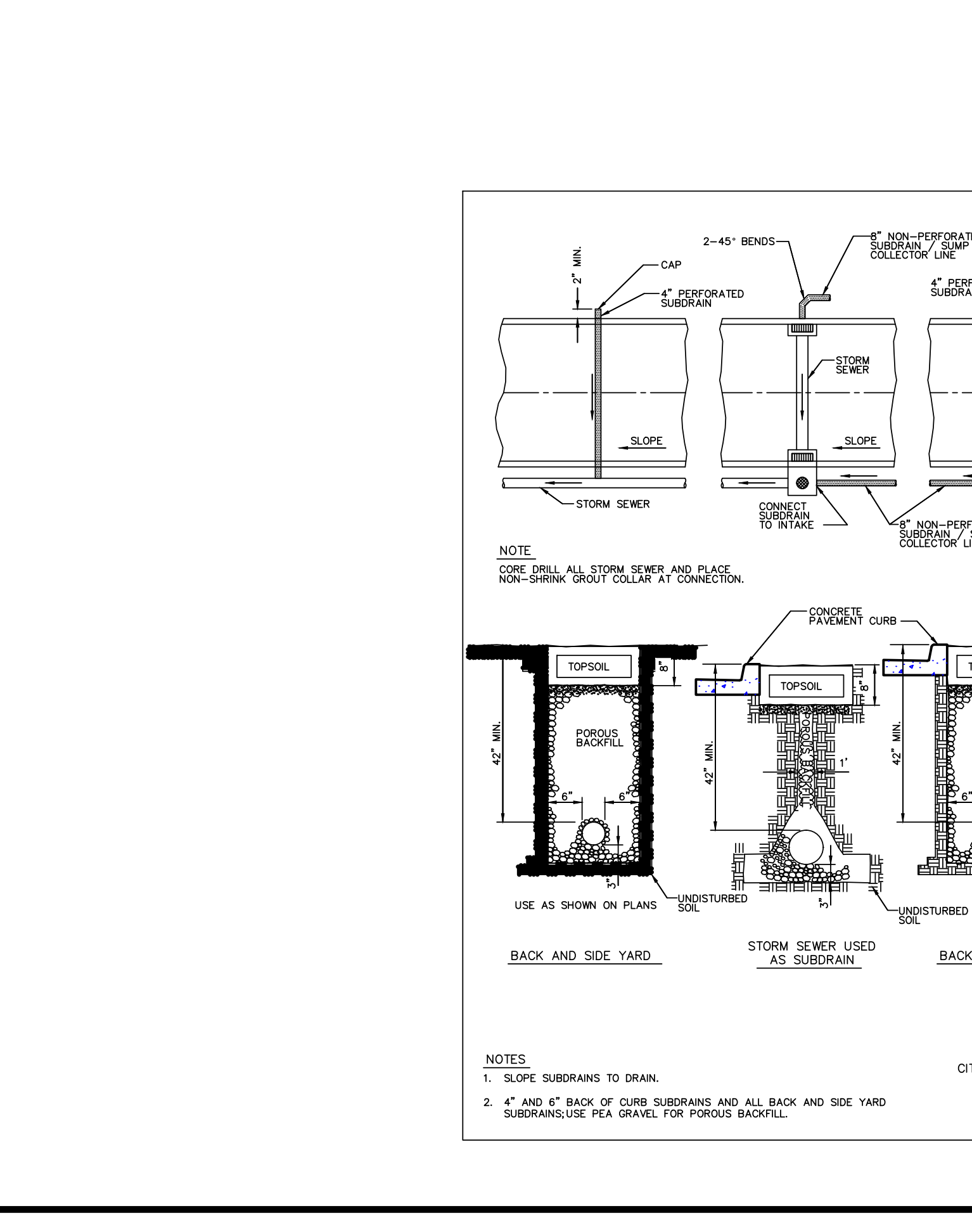
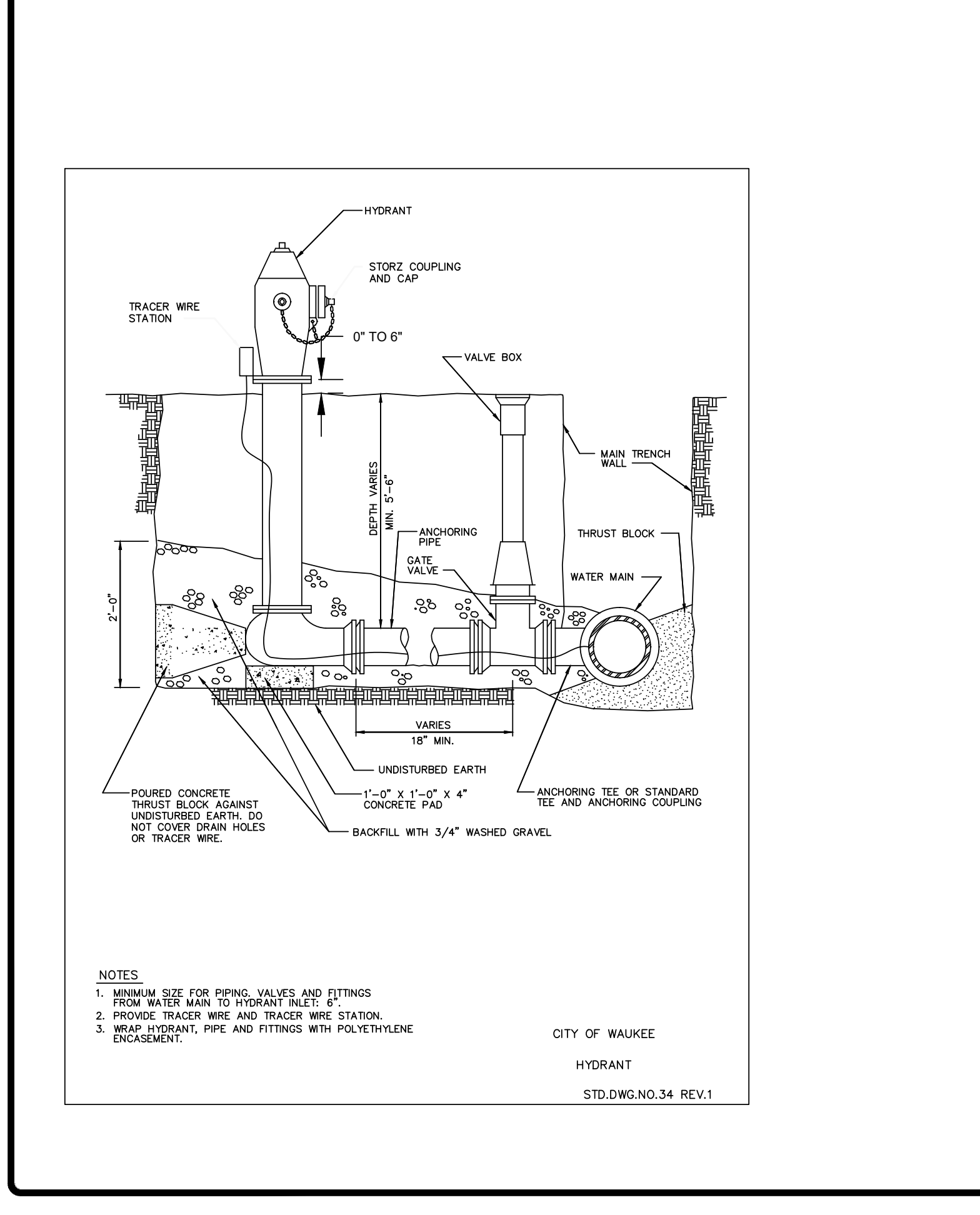
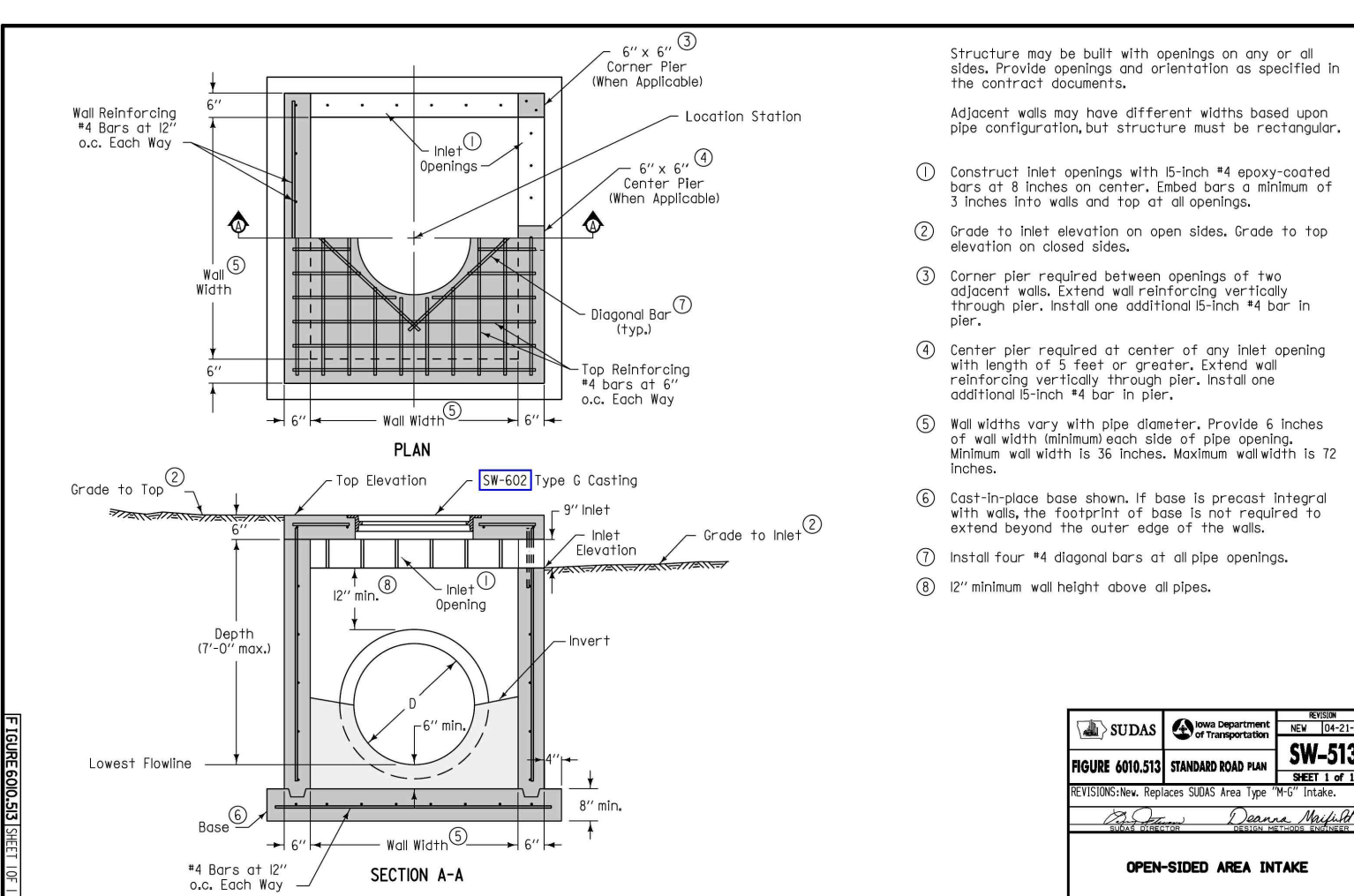
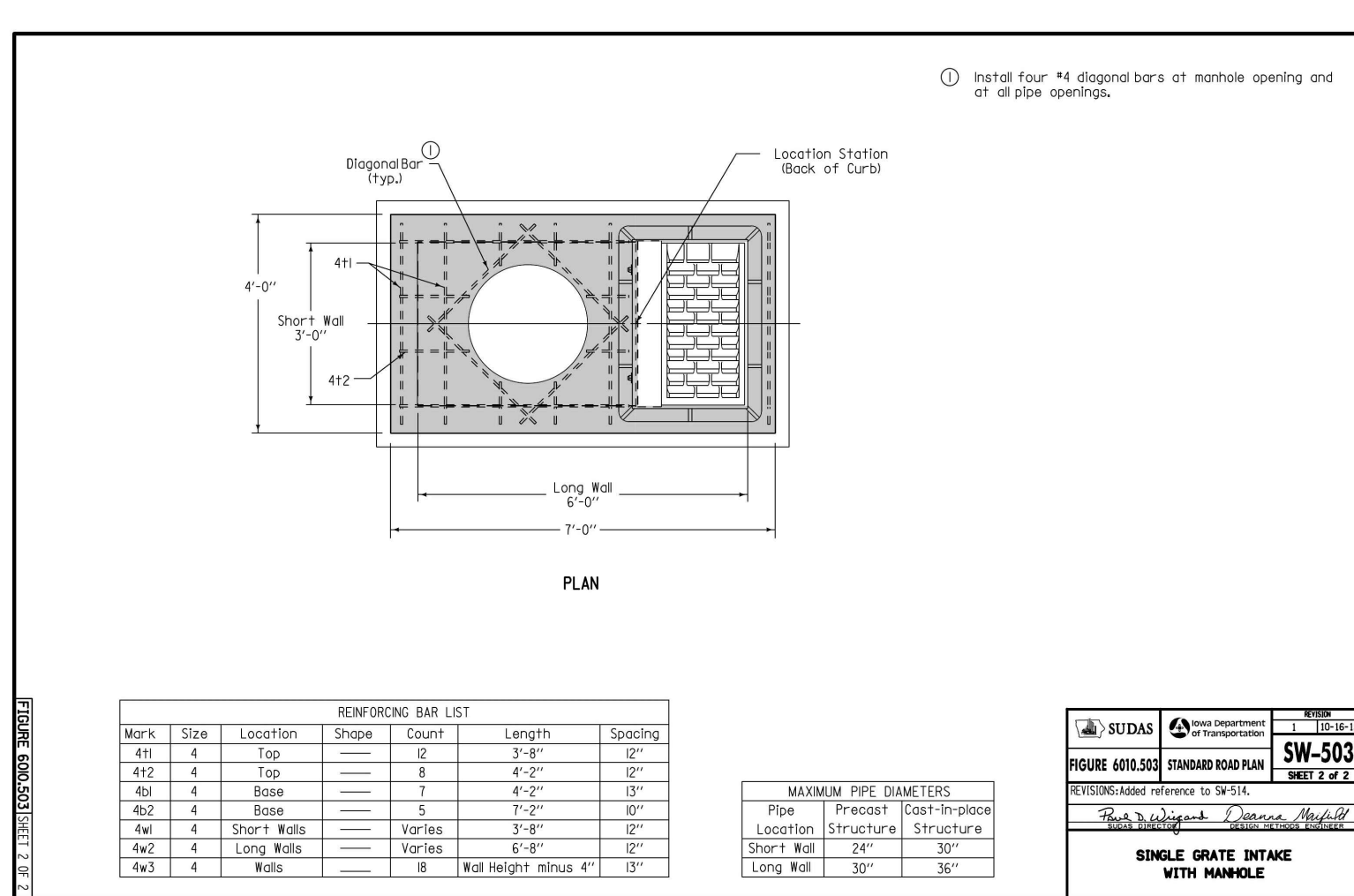
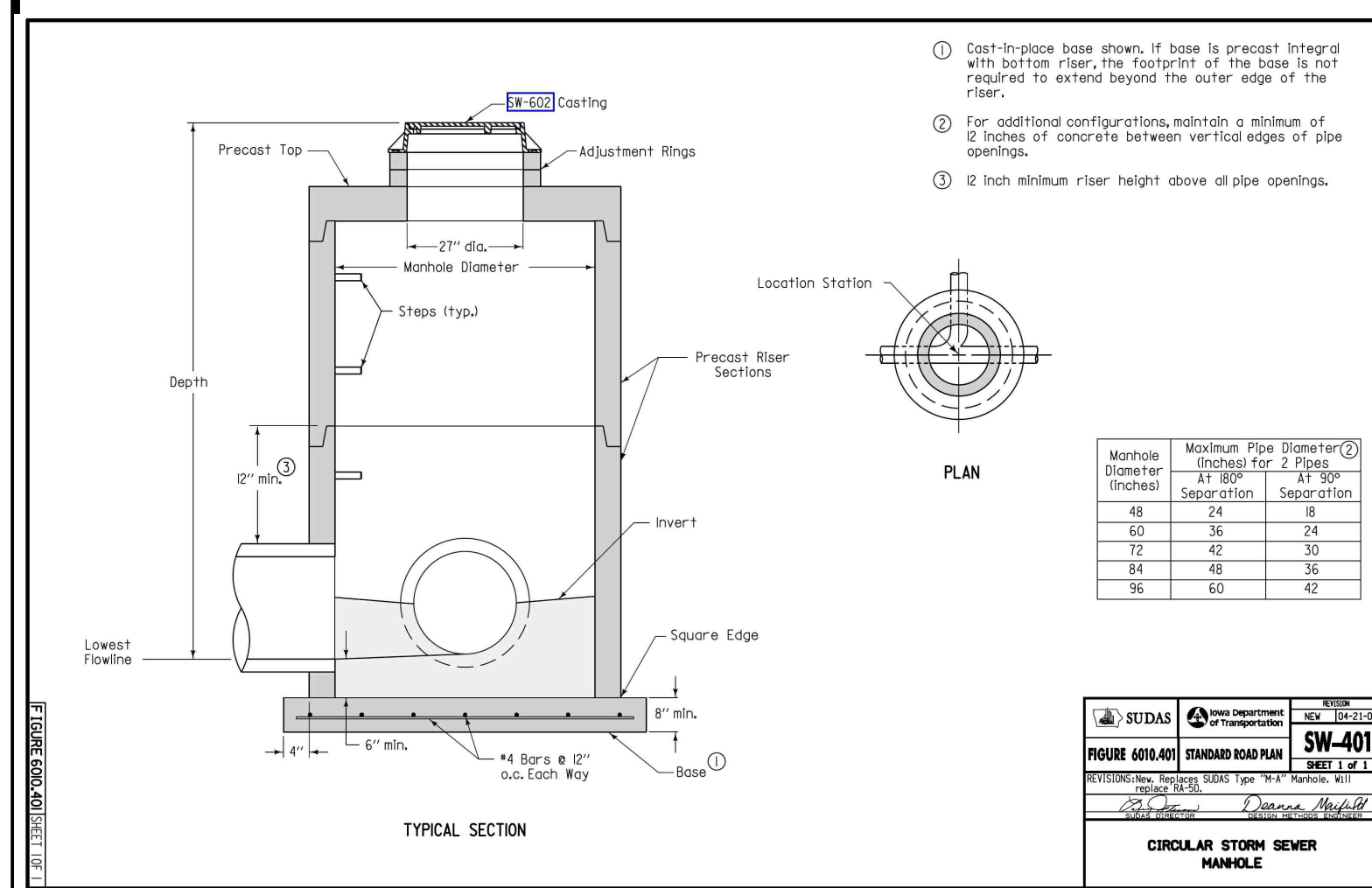
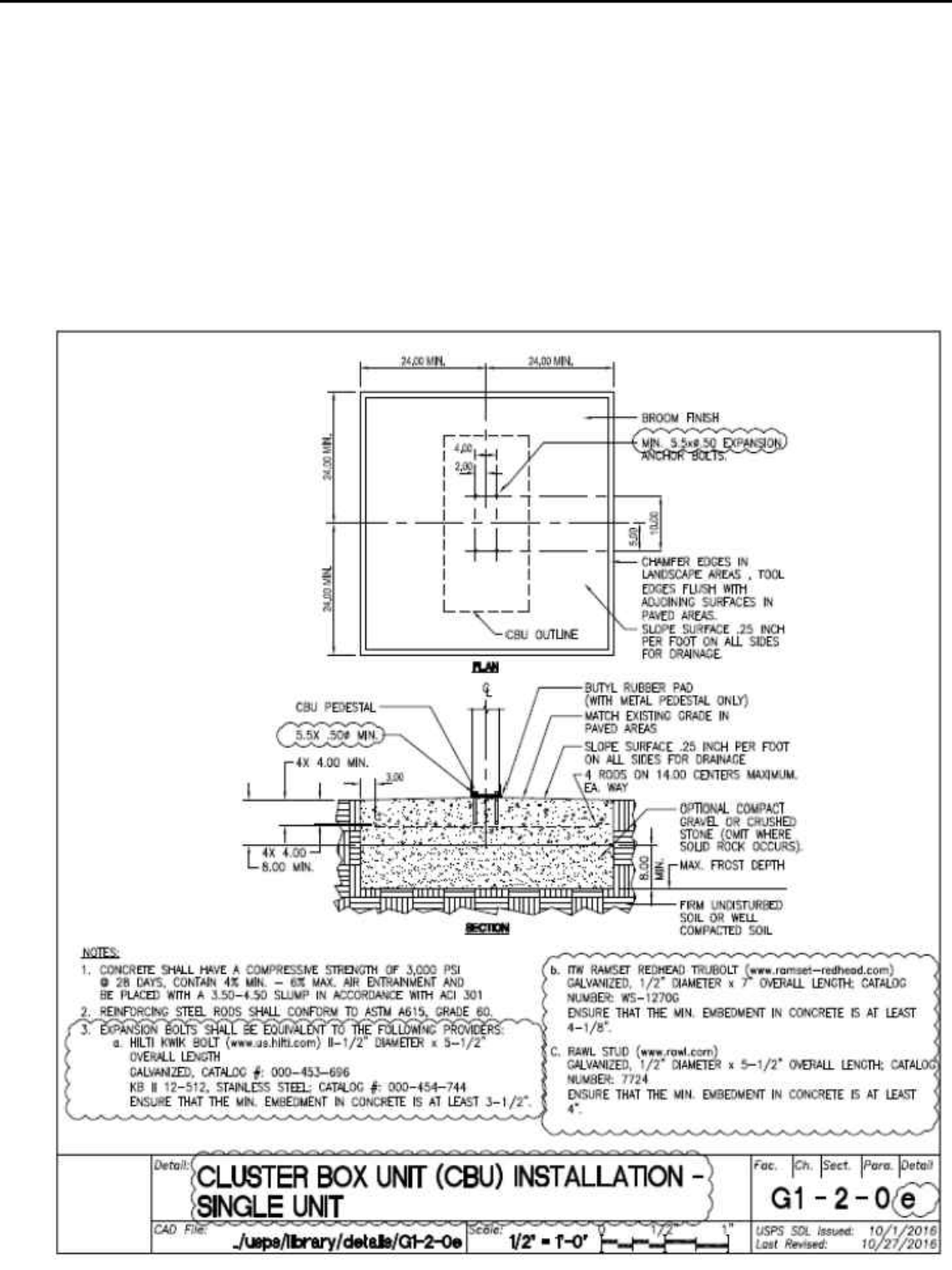
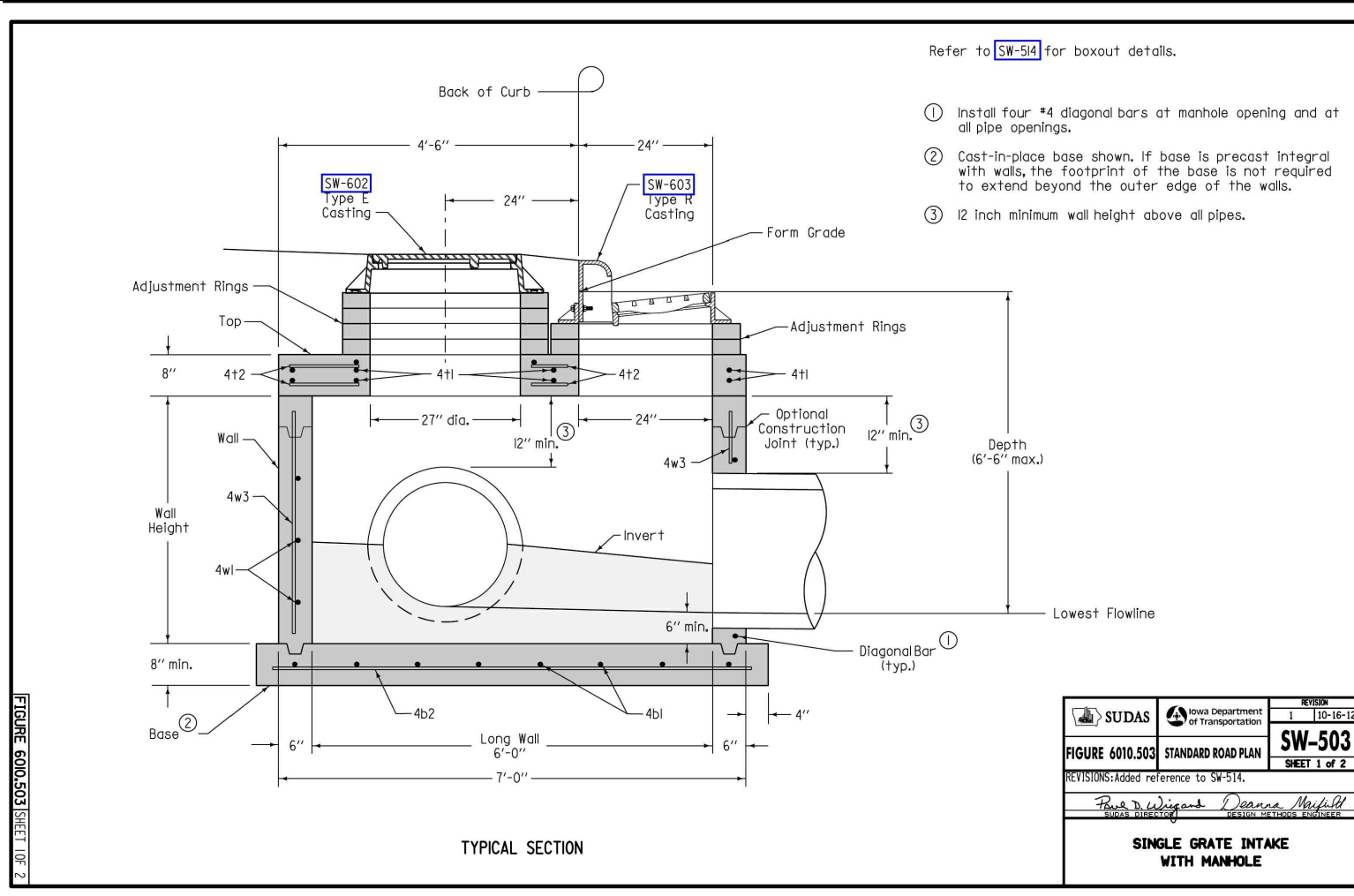
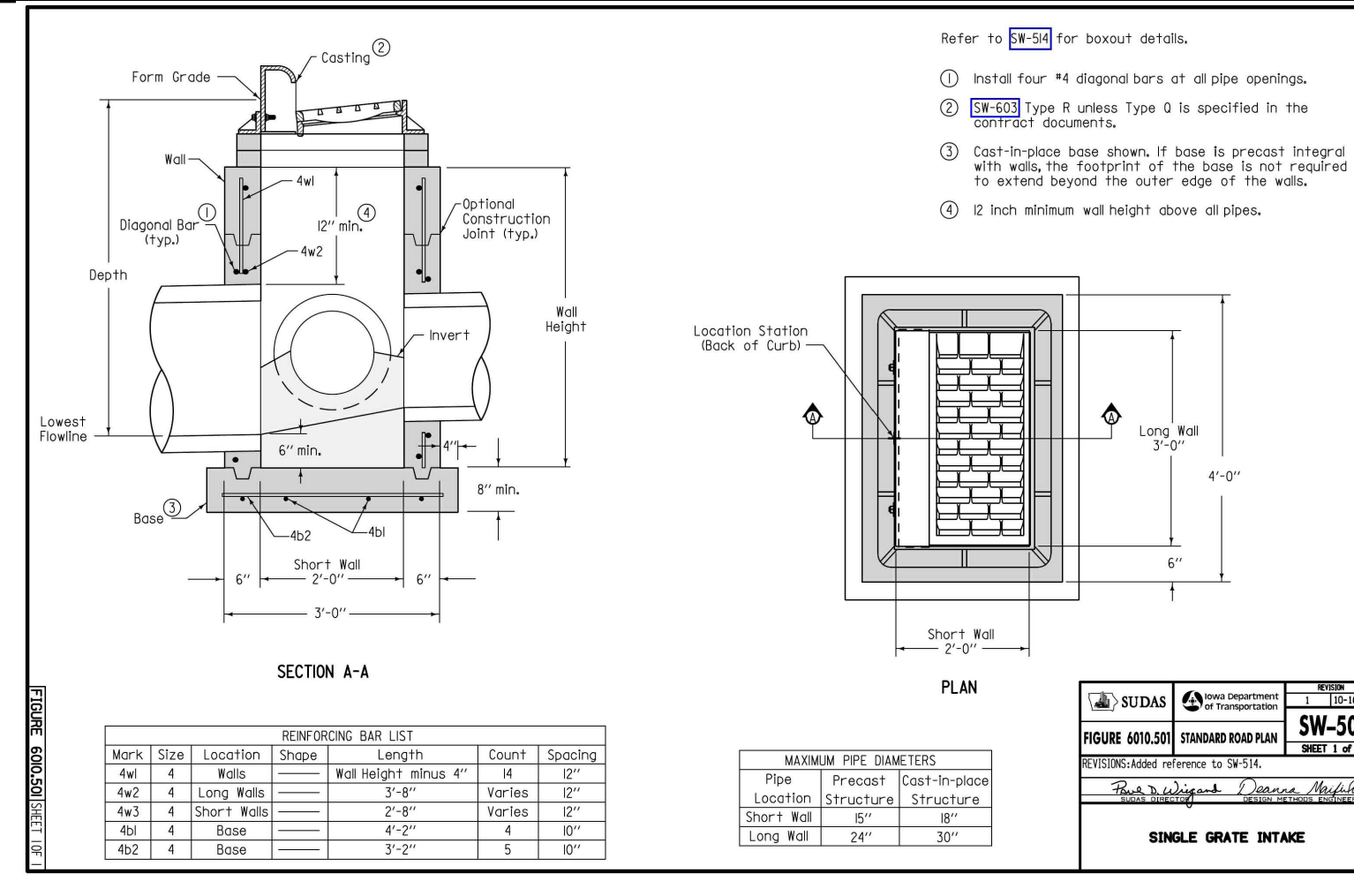
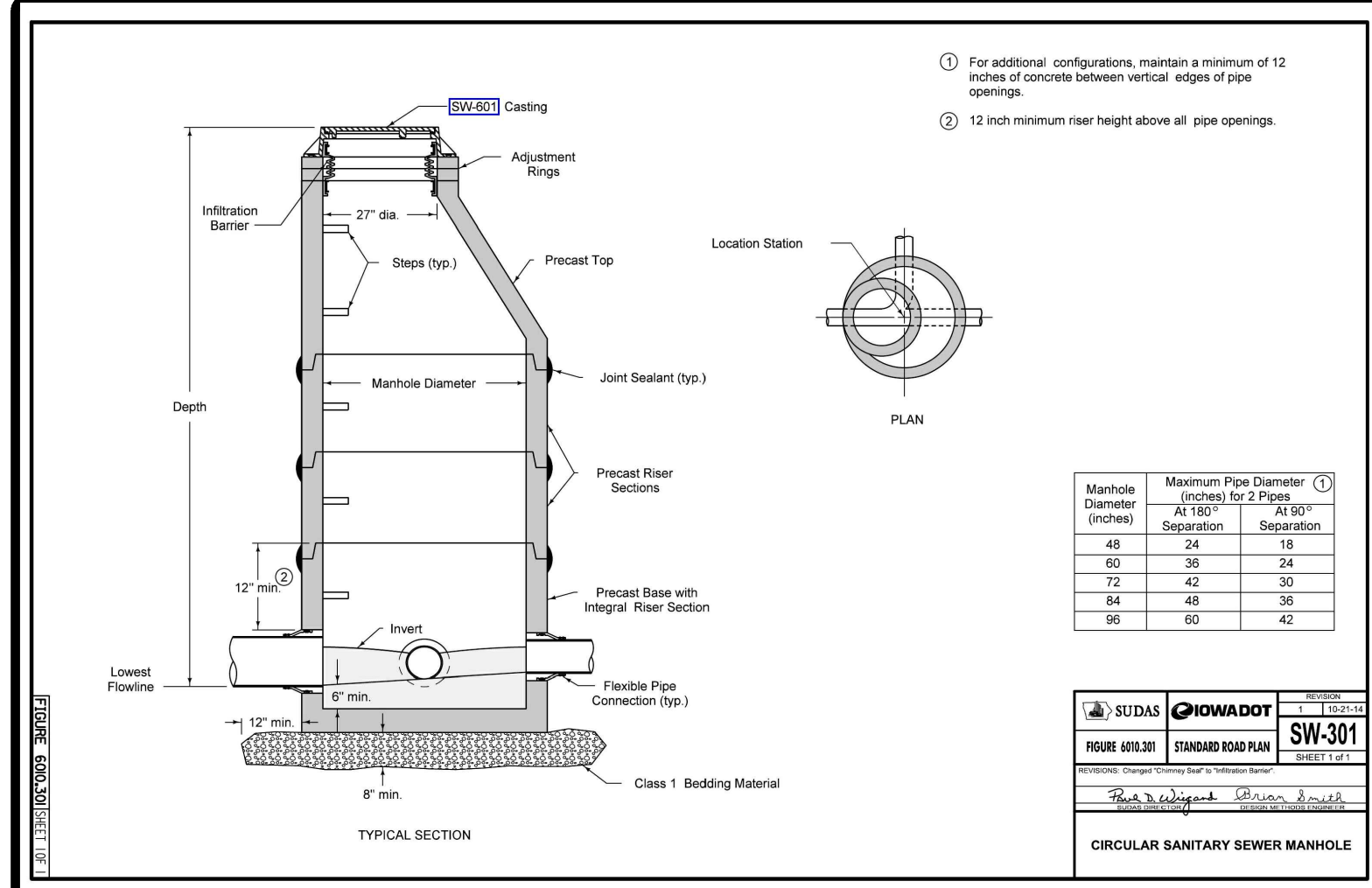


DESIGN STORAGE TABLE				
ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
973.00	40	N/A	N/A	0
974.00	177	1.00	109	109
975.00	395	1.00	286	395
976.00	693	1.00	544	939
977.00	1075	1.00	884	1823
978.00	1542	1.00	1309	3131
979.00	2451	1.00	1997	5128

REQUIRED STORAGE @ 100 YR = 1,391 CF

ASBUILT STORAGE TABLE				
ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
973.08	2	N/A	N/A	0
974.00	130	0.93	61	61
975.00	389	1.00	259	321
976.00	766	1.00	577	898
977.00	1223	1.00	994	1892
977.52	1496	0.52	707	2599
978.00	1773	0.48	785	3384
978.52	2116	0.52	1011	4395
978.95	2404	0.43	961	5356

PLOT BY: CODY MEYER ANS1 EXPAND D (84.00 X 22.00 INCHES) 2020-07-14 11:11 AUTOCAD PDF (GENERAL DOCUMENTATION) PC3



STORM WATER POLLUTION PREVENTION PLAN

1. SITE DESCRIPTION/APPLICANT/SCHEDULE

- OWNER/APPLICANT: SILO 9, LLC
6205 MILLS CIVIC 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 SWALES
- STORM WATER MANAGEMENT
- FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES 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 VEHICULAR 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 SEEDING 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 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 RESEEDDED. - 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 SWALES 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 70% 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 3/4 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 HOMEBUILDING SHALL BE ACTIVELY COVERED UNDER THE GENERAL PERMIT #2 AUTHORIZATION FOR ALYVIA FLAT 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 DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATIONS, ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS SUCH AS DEWATERING 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 EXPOSURE 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

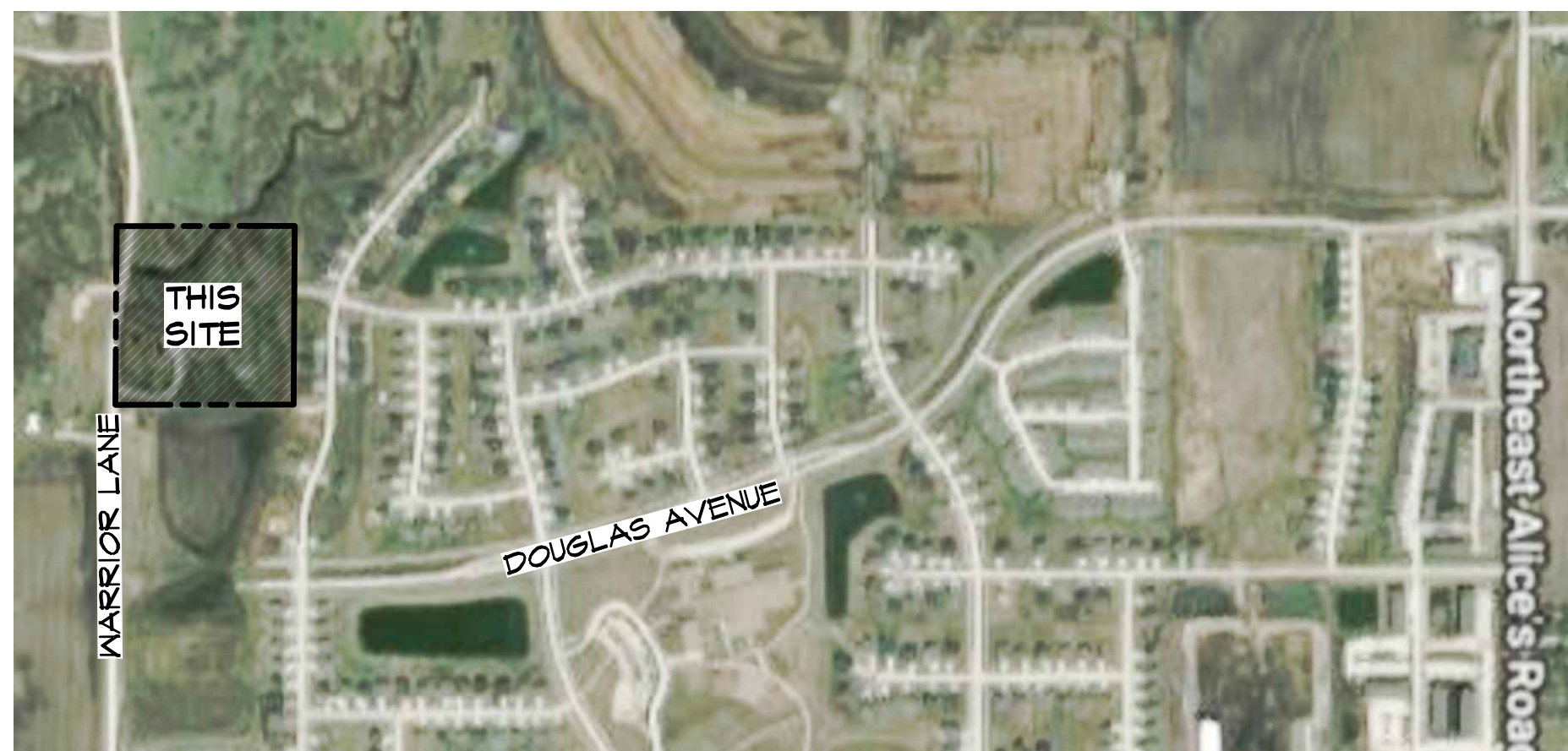
- IOWA LAW REQUIRES THAT A HAZARDOUS CONDITION OR SPILL IS REPORTED NOT MORE THAN SIX HOURS AFTER THE ONSET OF SAID CONDITION OR SPILL. THE IDNR AND LOCAL OR COUNTY SHERIFF'S OFFICE SHALL BE NOTIFIED.
- MODIFY THE SWPPP WITHIN 5 CALENDAR DAYS OF A HAZARDOUS CONDITION. THE PLAN UPDATE SHALL INCLUDE THE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

QUANTITIES

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

AREA OF DISTURBANCE

5.32 ACRES

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: _____

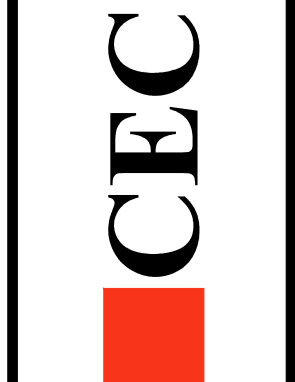
COMPANY: _____

SUBCONTRACTOR

NAME / TITLE: _____

COMPANY: _____

Civil Engineering Consultants, Inc.
2400 86th Street Unit 12 Des Moines, Iowa 50322
515.276.4884 Fax: 515.276.7084 mail@cecinc.com



DATE: ASBUILT 7-14-2020 8-19-2019 - FINAL
8-16-2019 - 5TH SUBMITTAL
8-15-2019 - 4TH SUBMITTAL
07-24-2019 - 3RD SUBMITTAL
DATE OF SURVEY: 08/14/2019
DESIGNED BY: ANP
DRAWN BY: CRT

GENERAL CONTRACTOR
NAME / TITLE: _____
COMPANY: _____
TELEPHONE NUMBER: _____

SUBCONTRACTOR
NAME / TITLE: _____
COMPANY: _____

SUBCONTRACTOR
NAME / TITLE: _____
COMPANY: _____

ALYVIA - FLAT 1
WAUKEE, IOWA
SWPPP-NOTES

SHEET
OF 21
A1803



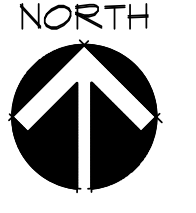
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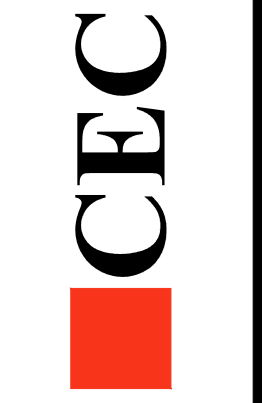
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ALYVIA - PLAT 1
WAUKEE, IOWA
SWPPP

SHEET 16 OF 21
A1883

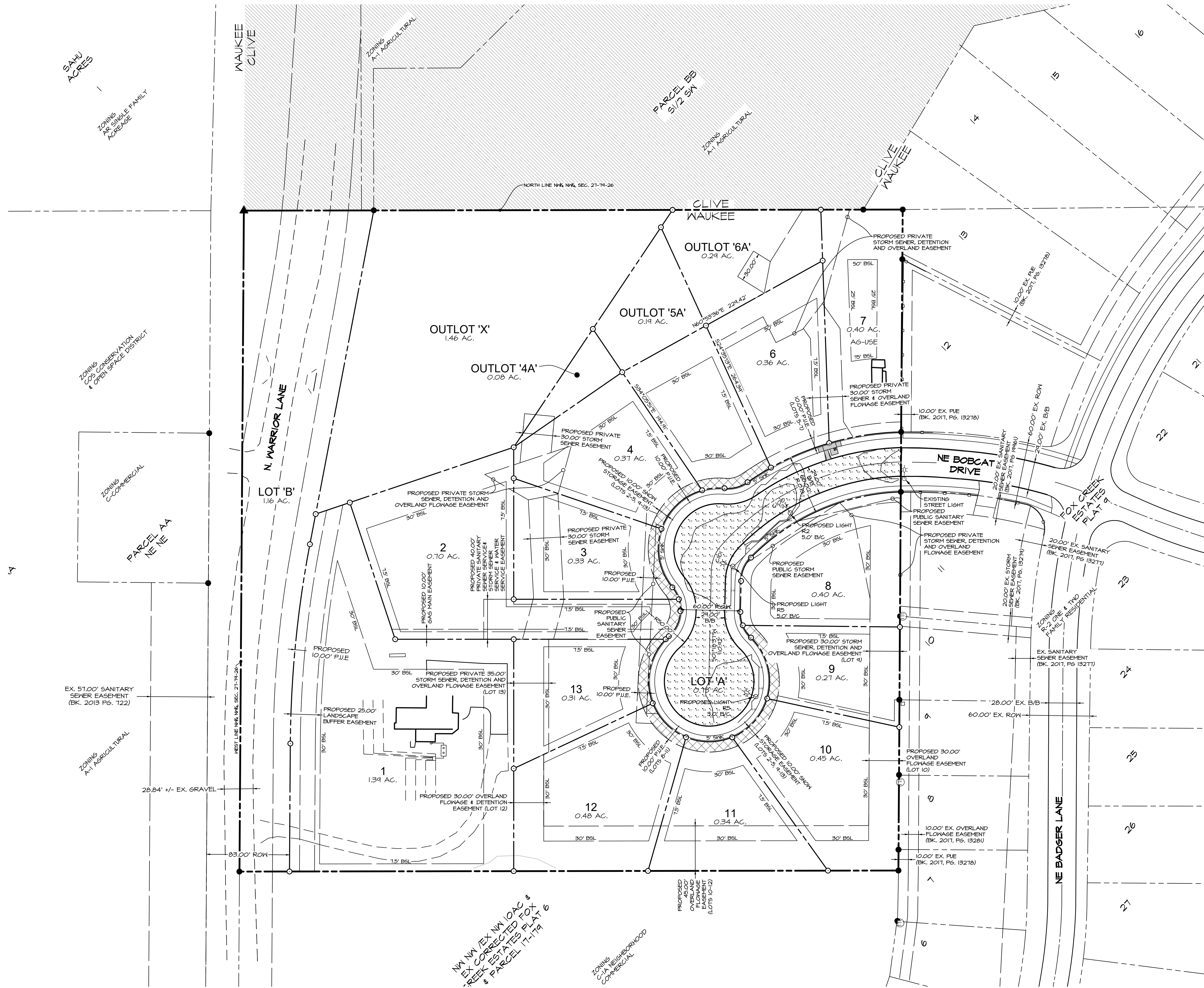
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	8-16-2019 - 5TH SUBMITTAL	
	8-15-2019 - 4TH SUBMITTAL	
DATE OF SURVEY:	07-24-2019	3RD SUBMITTAL
DESIGNED BY:	08/14/2019	ARP
DRAWN BY:		CM



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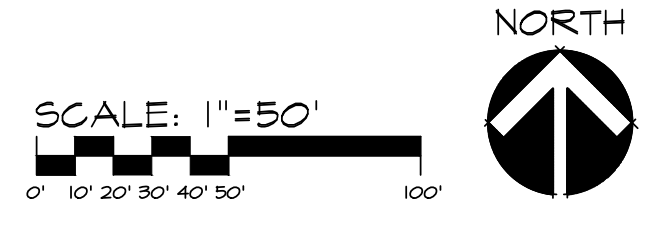
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LOCAL STREETS

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



Civil Engineering Consultants, Inc. CEC

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07-24-2019 - 3RD SUBMITTAL
03/14/2019
DESIGNED BY: ARP
DRAWN BY: CM

ALYVIA - PLAT 1
WAUKEE, IOWA

STREET LIGHTING PLAN

SHEET 17 OF 21
A1883