

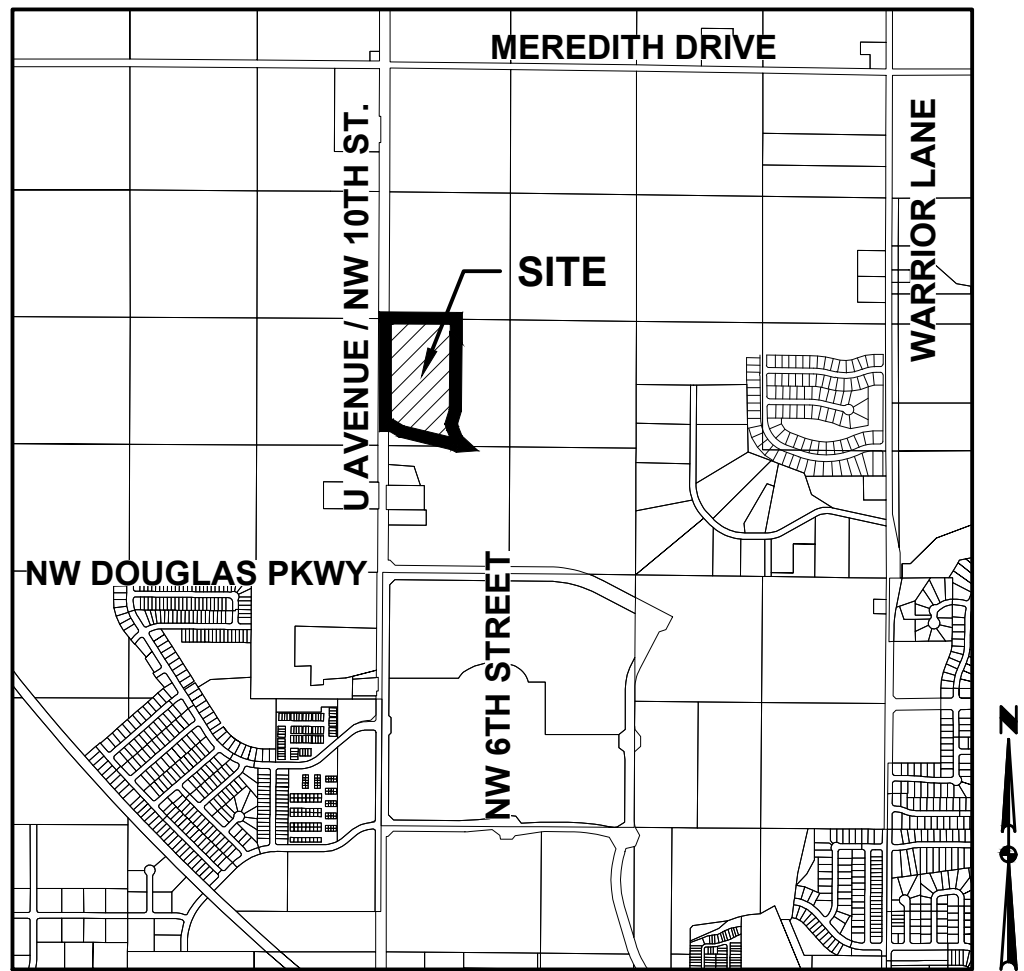
CONSTRUCTION PLANS FOR:

PARKSIDE PLAT 1

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

OWNER / APPICANT

PARKSIDE WAUKEE, LLC
1015 NW 10TH STREET
WAUKEE, IA 50263
CONTACT: DEREK TEMPLE
PH. (515) 601-5989

ENGINEER / SURVEYOR

CIVIL DESIGN ADVANTAGE
4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
CONTACT: JARED MURRAY
PH. (515) 369-4400

ZONING

R-2: ONE AND TWO FAMILY RESIDENTIAL DISTRICT

DEVELOPMENT SUMMARY

TOTAL AREA OF SITE = 22.34 AC (972,934 SF)

PARKLAND DEDICATION

PARKLAND REQUIRED:
SINGLE FAMILY: 52 UNITS X 3 PEOPLE/UNIT X
6.5 ACRES/1000 PEOPLE = 1.01 ACRES

FLOODPLAIN PARKLAND PROVIDED
1.52 ACRES/1.50 = 1.01 ACRES

DATE OF SURVEY

06/07/2021

SUBMITTAL DATES

1ST SUBMITTAL:	03/12/2024
2ND SUBMITTAL:	03/29/2024
3RD SUBMITTAL:	04/16/2024
FINAL SUBMITTAL:	04/26/2024
1ST AS-BUILT SUBMITTAL:	10/25/2024
2ND AS-BUILT SUBMITTAL:	12/05/2024

BULK REGULATIONS

- R-2: ONE AND TWO FAMILY RESIDENTIAL DISTRICT
- MINIMUM LOT AREA: 8,000 SF
 - MINIMUM LOT WIDTH: 65 FEET
 - FRONT YARD SETBACK: 30 FEET
 - SIDE YARD SETBACK: TOTAL 15 FEET - ONE SIDE MAY BE REDUCED TO NOT LESS THAN 7 FEET
 - REAR YARD SETBACK: 30 FEET
 - MAXIMUM BUILDING HEIGHT: 40 FT
 - MAXIMUM NUMBER OF STORIES: 3 STORIES

BENCHMARKS

- DALLAS COUNTY MONUMENT G134 AT THE INTERSECTION OF MEREDITH DRIVE AND WARRIOR LANE. ELEVATION=1018.84
- SANITARY MANHOLE @ THE SE CORNER OF WARRIOR LANE & GRACEWOOD DRIVE. ELEVATION=1019.45

CONSTRUCTION SCHEDULE

SPRING 2024 - SPRING 2025

NOTES

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

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

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2-4	TYPICAL SECTIONS AND DETAILS
5	QUANTITIES, GENERAL NOTES AND BID ITEM REFERENCE NOTES
6	LANDSCAPE PLAN
7	HYDRANT COVERAGE
8-9	GRADING PLAN
10-11	EROSION AND SEDIMENT CONTROL PLAN
12-23	STORM & SANITARY SEWER PLAN AND PROFILE
24-35	WATER MAIN PLAN AND PROFILE
36-39	INTERSECTION DETAILS

LEGAL DESCRIPTION

A PART OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER AND A PART OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER, ALL IN SECTION 21, 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:

THENCE SOUTH 00°27'36" WEST, 200.00 FEET; THENCE NORTH 89°32'24" WEST, 3.06 FEET; THENCE SOUTH 00°27'36" WEST, 754.84 FEET; THENCE SOUTH 17°15'16" WEST, 146.83 FEET; THENCE SOUTH 17°26'20" EAST, 52.53 FEET; THENCE SOUTH 21°52'02" EAST, 123.83 FEET; THENCE SOUTH 47°22'46" EAST, 95.12 FEET; THENCE SOUTH 85°32'32" WEST, 66.26 FEET; THENCE NORTH 61°40'18" WEST, 50.00 FEET; THENCE NORTH 76°23'21" WEST, 326.85 FEET; THENCE SOUTH 00°06'04" EAST, 179.06 FEET; THENCE NORTH 82°04'10" WEST, 392.08 FEET TO THE WEST LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER; THENCE NORTH 00°05'02" WEST ALONG SAID WEST LINE, 37.10 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER; THENCE NORTH 00°04'36" WEST ALONG THE WEST LINE OF SAID NORTHWEST QUARTER OF THE SOUTHWEST QUARTER, 1322.76 FEET TO THE POINT OF BEGINNING AND CONTAINING 22.34 ACRES (972,934 SQUARE FEET).

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.



4121 NW URBANDALE DRIVE, URBANDALE, IA 50322

PH: (515) 369-4400

PROJECT NO. 2402.122

GENERAL LEGEND

PROPOSED

PROPERTY BOUNDARY	—————
SECTION LINE	-----
CENTER LINE	-----
RIGHT OF WAY	- - - - R/W - - - -
BUILDING SETBACK	
PERMANENT EASEMENT	—— P/E ——
TEMPORARY EASEMENT	—— T/E ——
TYPE SW-501 STORM INTAKE	
TYPE SW-502 STORM INTAKE	
TYPE SW-503 STORM INTAKE	
TYPE SW-505 STORM INTAKE	
TYPE SW-506 STORM INTAKE	
TYPE SW-512 STORM INTAKE	
TYPE SW-513 STORM INTAKE	
TYPE SW-401 STORM MANHOLE	
TYPE SW-402 STORM MANHOLE	
FLARED END SECTION	
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	
SANITARY SERVICE	
STORM SEWER	
STORM SERVICE	
WATERMAIN WITH SIZE	
WATER SERVICE	
SAWCUT (FULL DEPTH)	
SILT FENCE	
USE AS CONSTRUCTED	(UAC)
MINIMUM PROTECTION ELEVATION	MPE

EXISTING

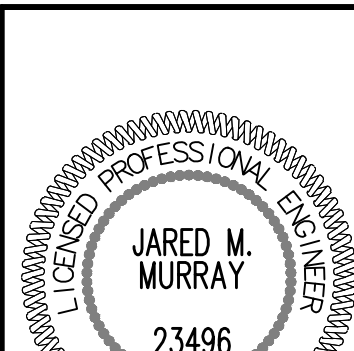
SANITARY MANHOLE	
WATER VALVE BOX	
FIRE HYDRANT	
WATER CURB STOP	
WELL	
STORM SEWER MANHOLE	
STORM SEWER SINGLE INTAKE	
STORM SEWER DOUBLE INTAKE	
FLARED END SECTION	
DECIDUOUS TREE	
CONIFEROUS TREE	
DECIDUOUS SHRUB	
CONIFEROUS SHRUB	
ELECTRIC POWER POLE	
GUY ANCHOR	
STREET LIGHT	
POWER POLE W/ TRANSFORMER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

ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE SOILS REPORT PREPARED BY CONSTRUCTION MATERIALS TESTING (CMT), (PN 242026PAR), DATED APRIL 16, 2024.

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

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

THE 2023 EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2024 EDITION OF THE SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.



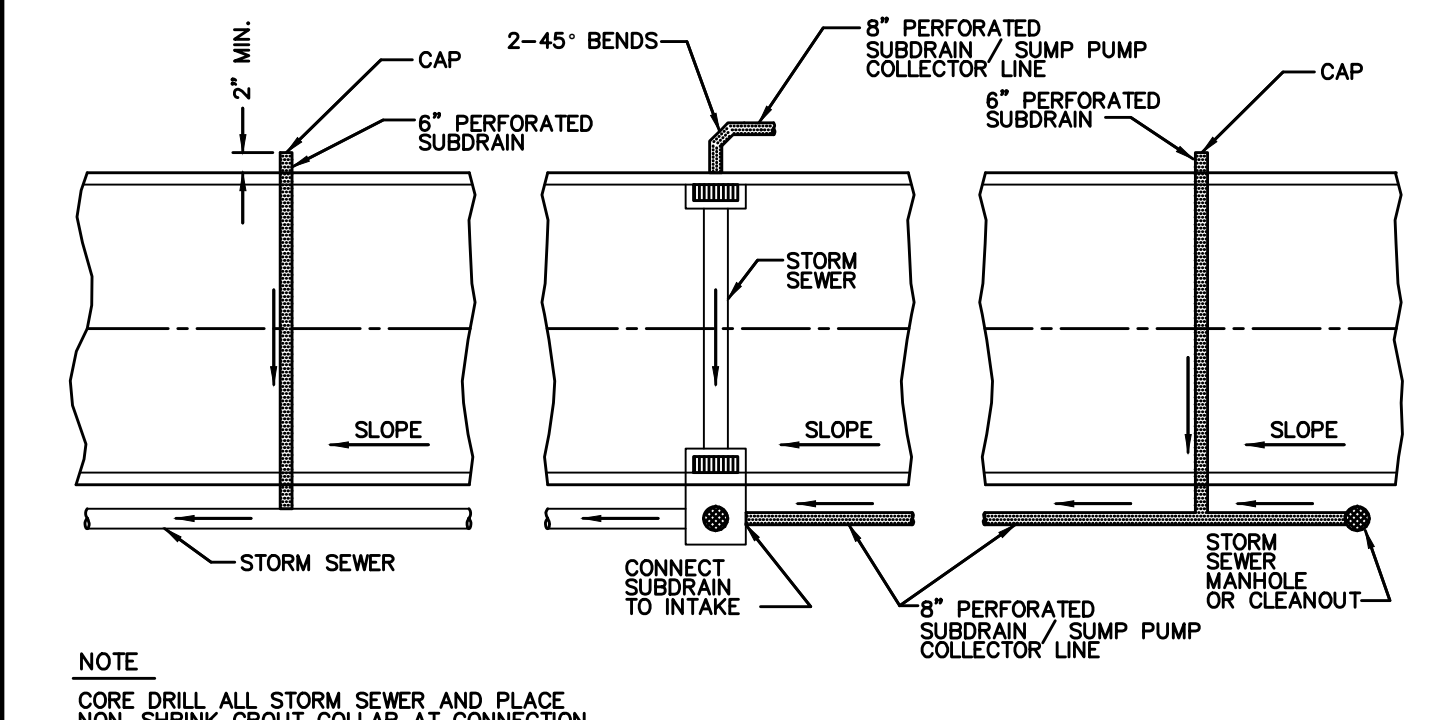
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Jared Murray 12/06/2024
JARED M. MURRAY, P.E. DATE

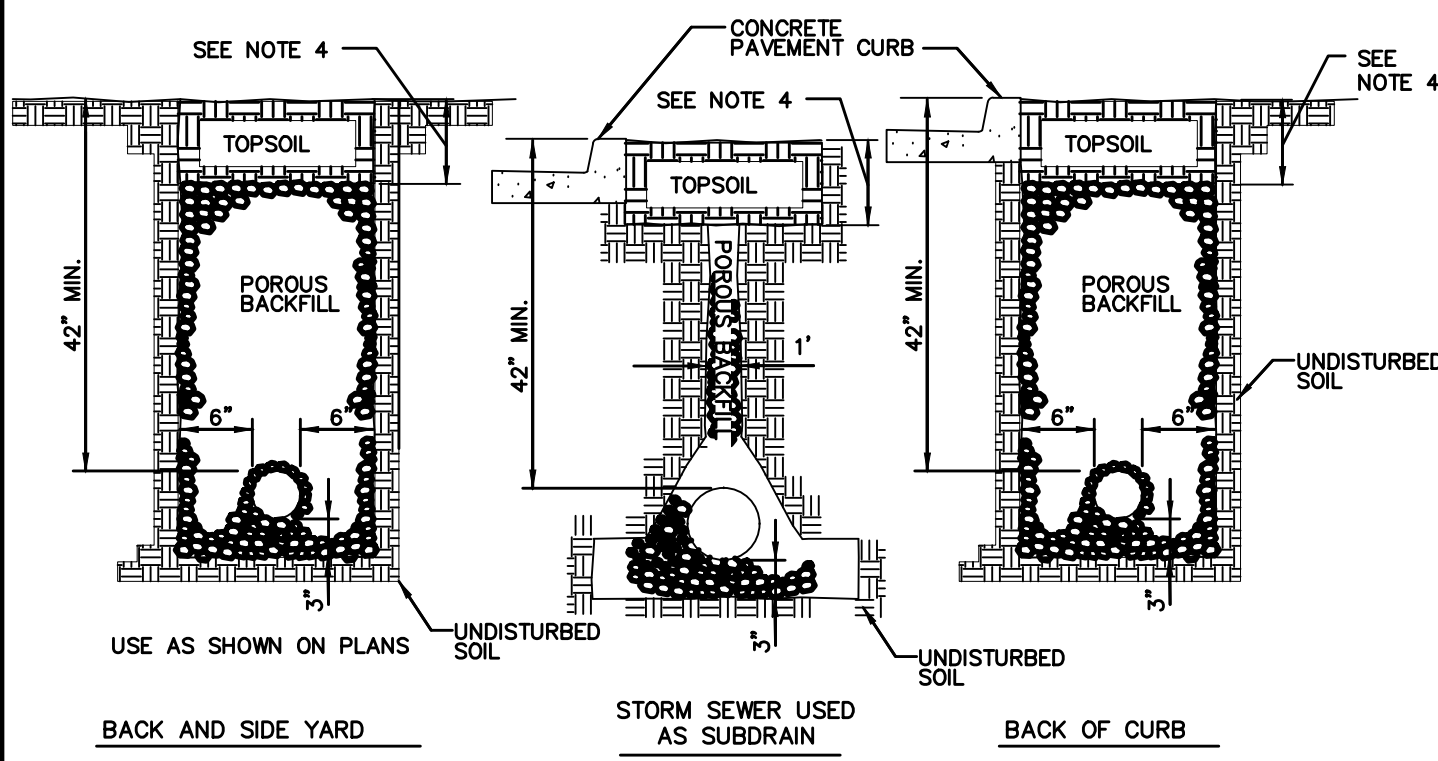
LICENSE NUMBER 23496
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025
PAGES OR SHEETS COVERED BY THIS SEAL:

SHEETS 1-5, 7-39

FILE: H:\2024\2402122\DWG\AS-BUILT\2402122-COV DET TAB-AS-BUILDING TYPICAL SECTIONS AND DETAILS.dwg
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PLOT BY: J. STONEBERG



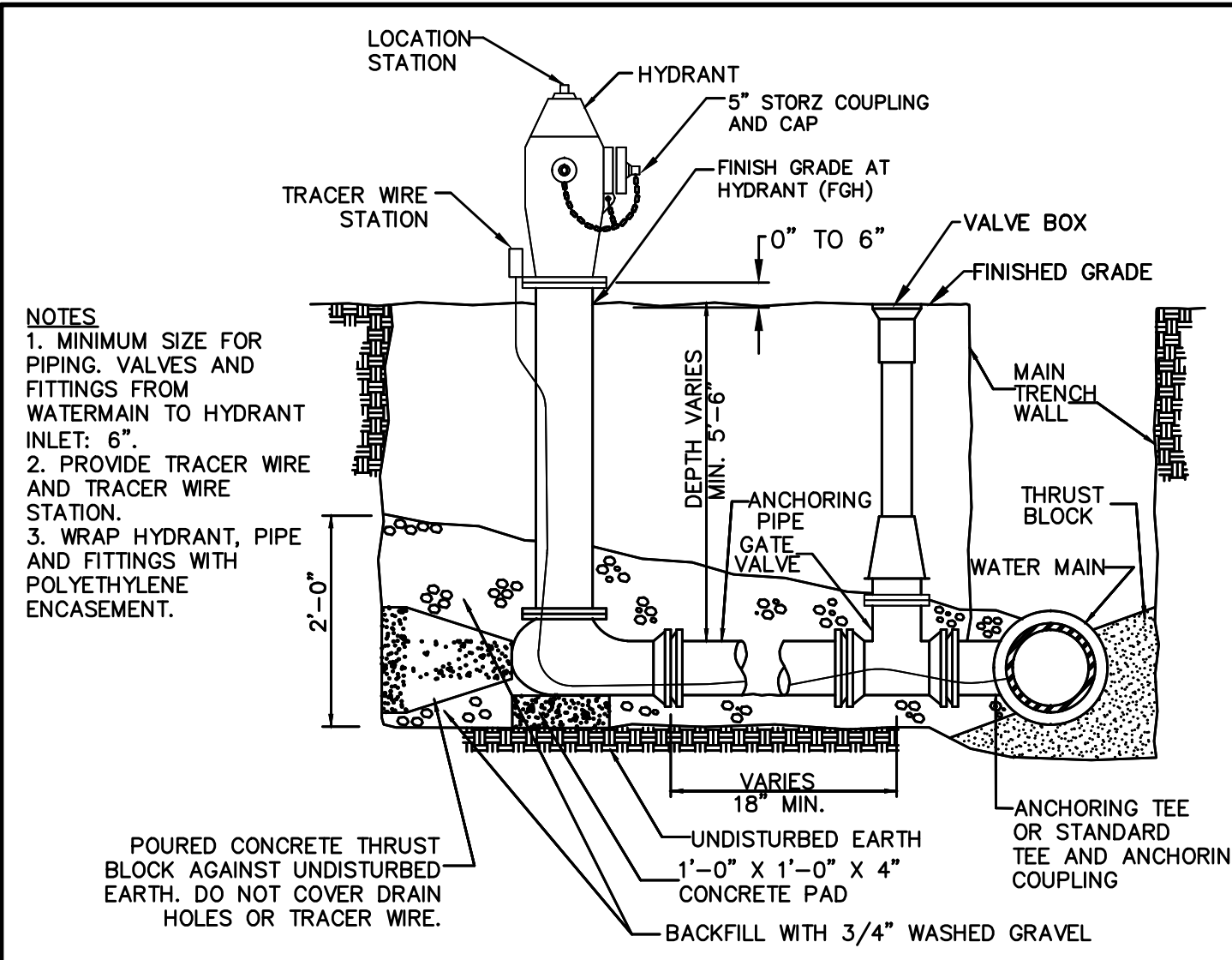
NOTE:
CORE DRILL ALL STORM SEWER AND PLACE
NON-SHRINK GROUT COLLAR AT CONNECTION.



NOTES:
1. SLOPE SUBDRAINS TO DRAIN.
2. 6" BACK OF CURB SUBDRAINS AND ALL BACK AND SIDE YARD SUBDRAINS; USE PEA GRAVEL FOR POROUS BACKFILL.
3. DIRECT PERFORATIONS DOWN FOR SUBDRAINS AND UP FOR SUMP PUMP COLLECTOR LINES.
4. 8" MIN OR TOP OF POROUS BACKFILL.

6" PERFORATED SUBDRAIN

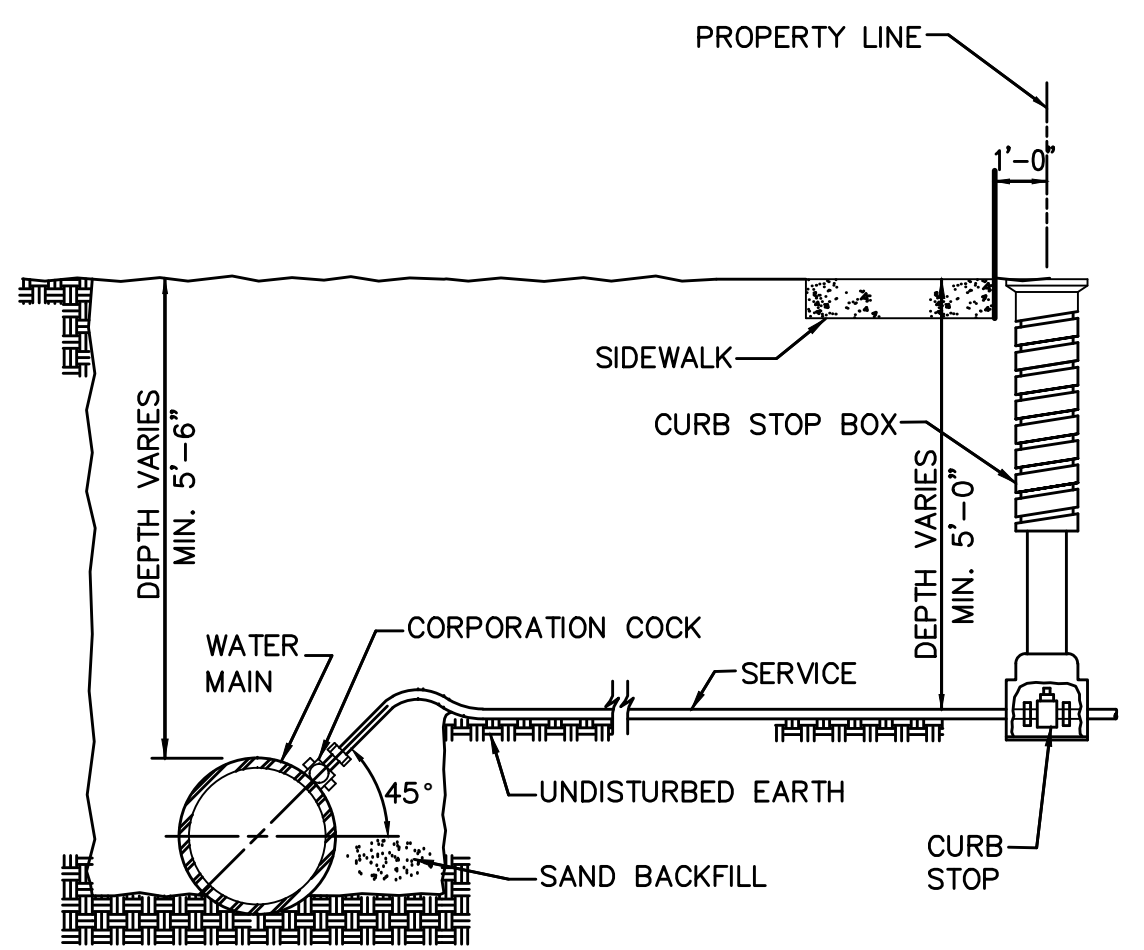
NOT TO SCALE



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

HYDRANT ASSEMBLY DETAIL

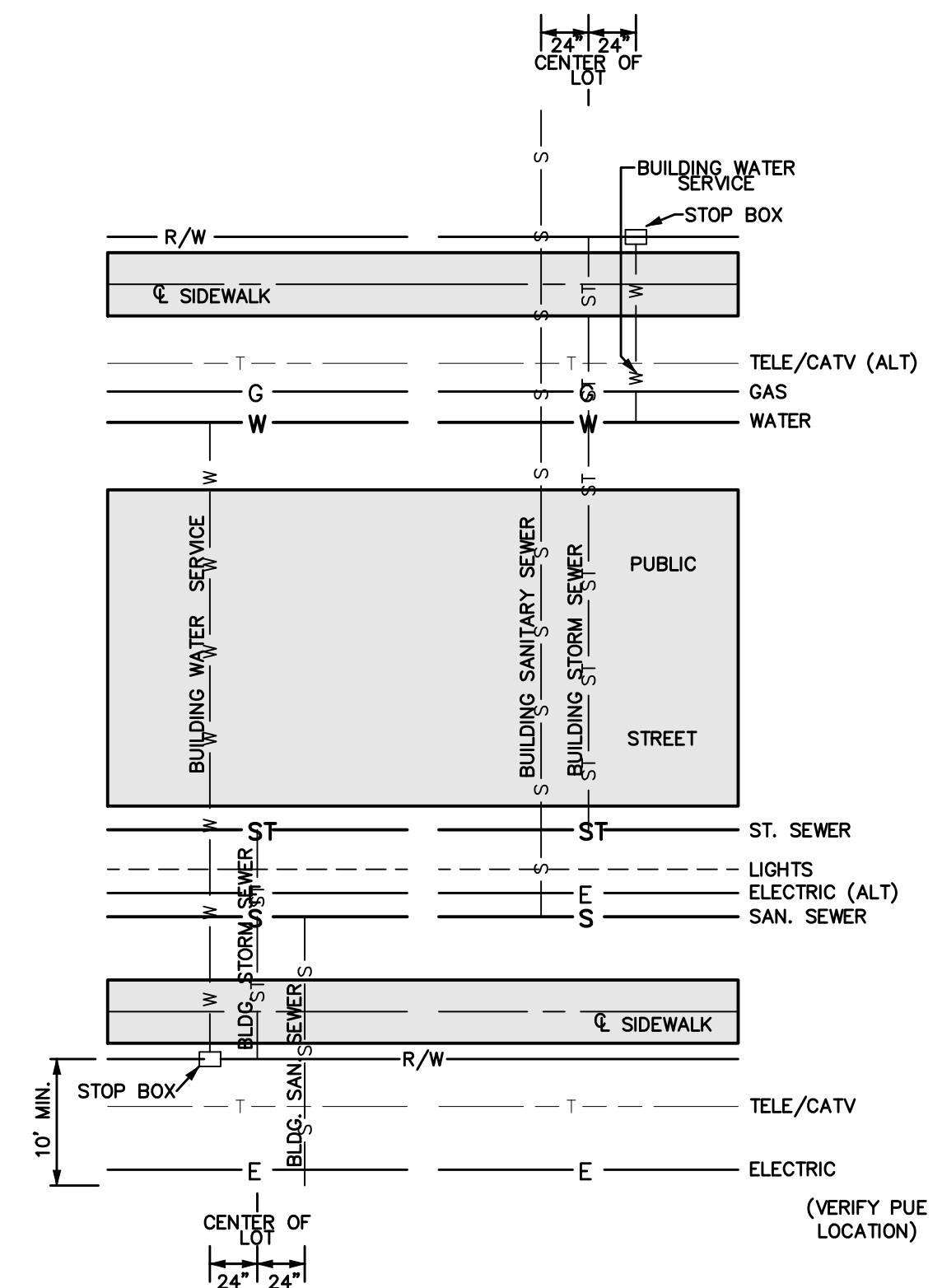
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NOTES:
1. TERMINATE CURB STOP BOX ROD 1'-6" BELOW FINISHED GRADE.

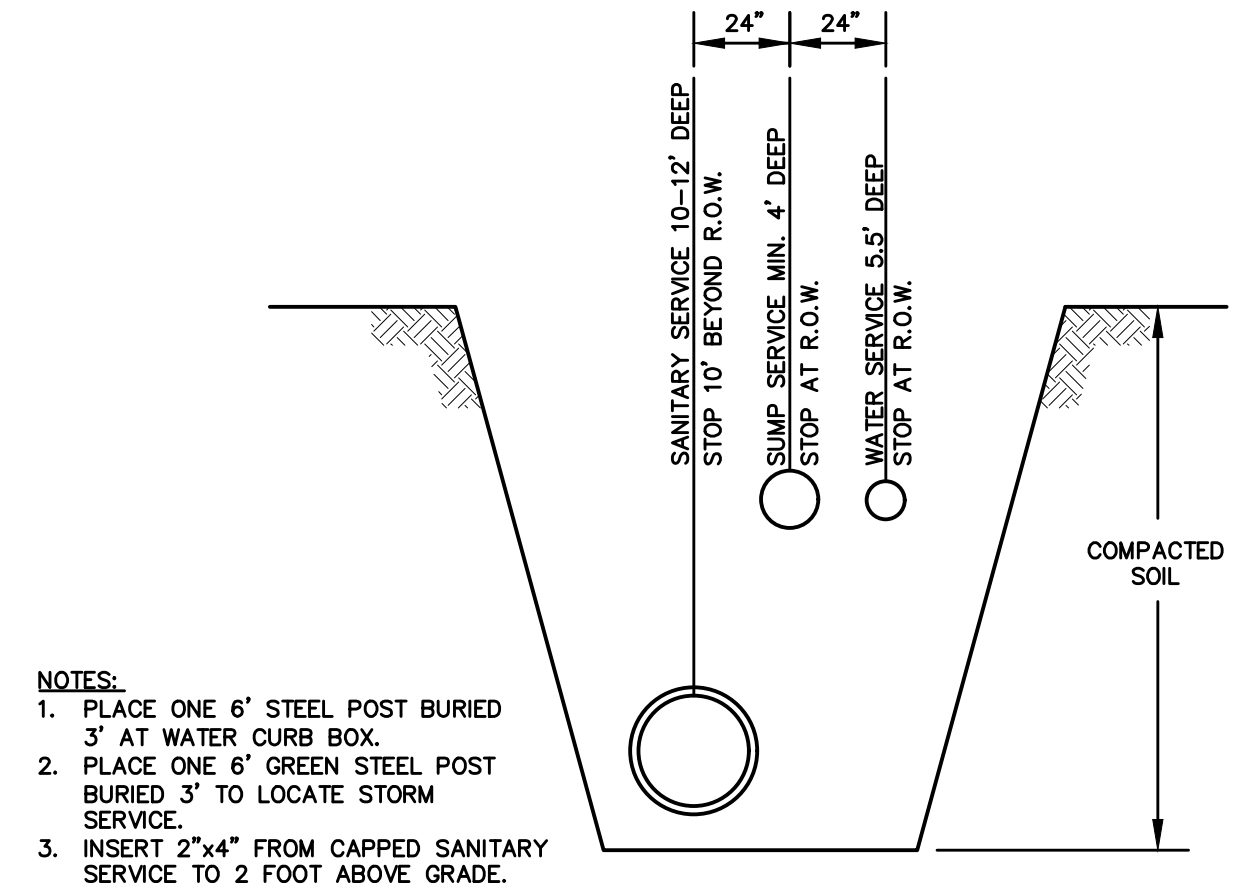
WATER SERVICE CONNECTION

NOT TO SCALE



CITY OF WAUKEE UTILITY SERVICE LOCATIONS

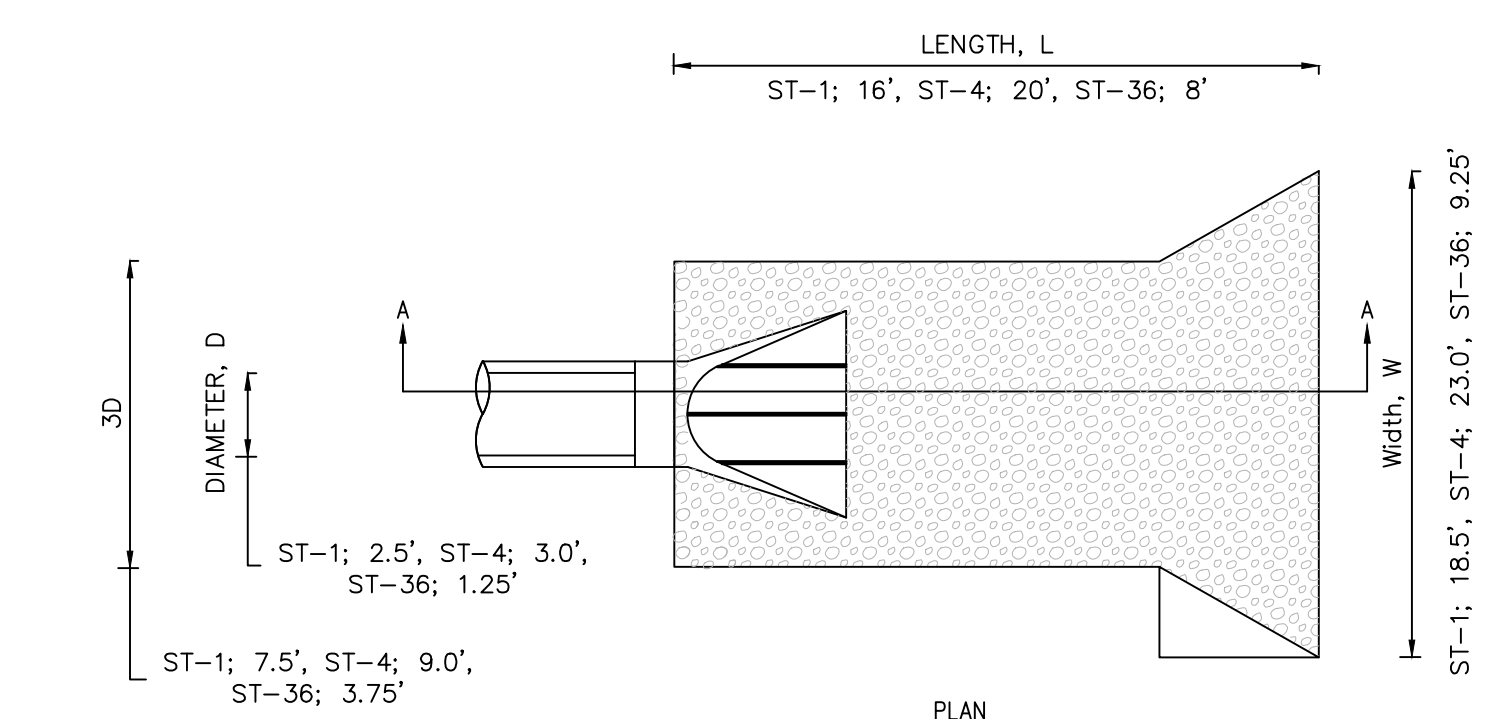
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NOTES:
1. PLACE ONE 6" STEEL POST BURIED 3' AT WATER CURB BOX.
2. PLACE ONE 6" GREEN STEEL POST BURIED 3' TO LOCATE STORM SERVICE.
3. INSERT 2"x4" FROM CAPPED SANITARY SERVICE TO 2 FOOT ABOVE GRADE.

SERVICE LOCATION DETAIL

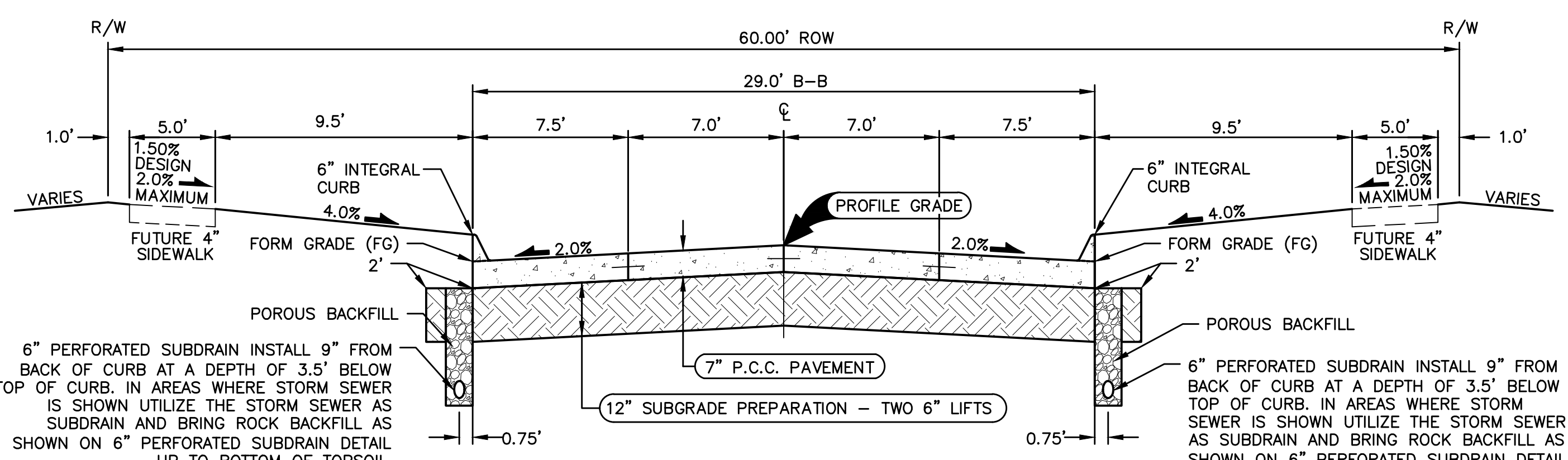
NOT TO SCALE



NOTE:
1. THE LAST THREE SECTIONS AND THE APRON SHALL BE CONNECTED WITH PIPE CONNECTIONS PER SECTION 4030.302C OF SDAS.
2. INSTALL A 3' CLAY WATERSTOP AT ALL STORM SEWER OUTLETS.

ROCK APRON FOR PIPE OUTLET

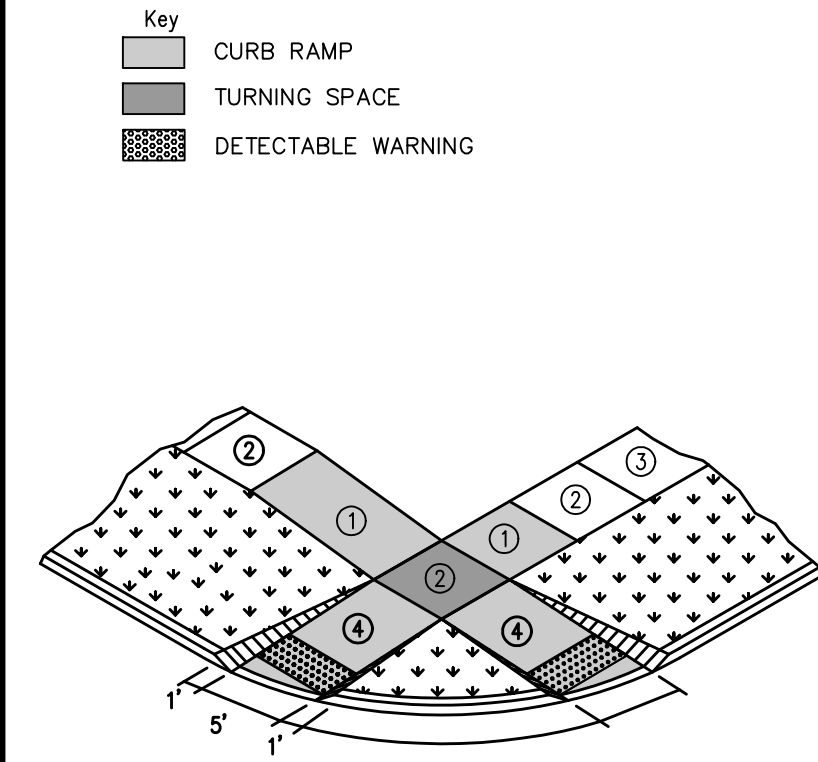
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NOTES:
1. PREPARE SUBGRADE IN 2 - 6" LIFTS.
2. MAXIMUM C JOINT SPACING IS 15'.

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

NOT TO SCALE NW ROLLAND ROAD, NW NOAH RUN,
NW STEVEN STREET, NW LINDA LANE

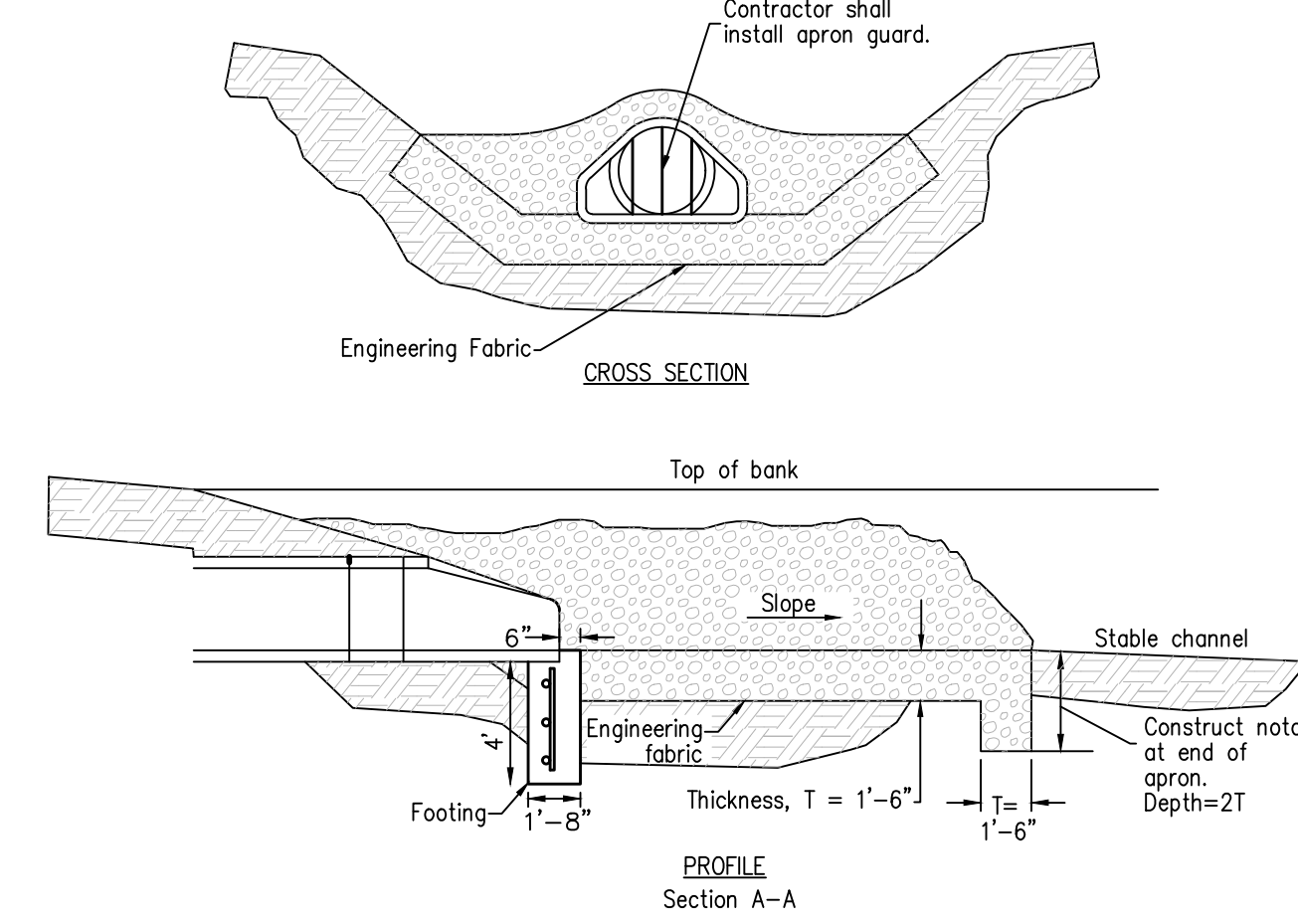


Key
CURB RAMP
TURNING SPACE
DETECTABLE WARNING

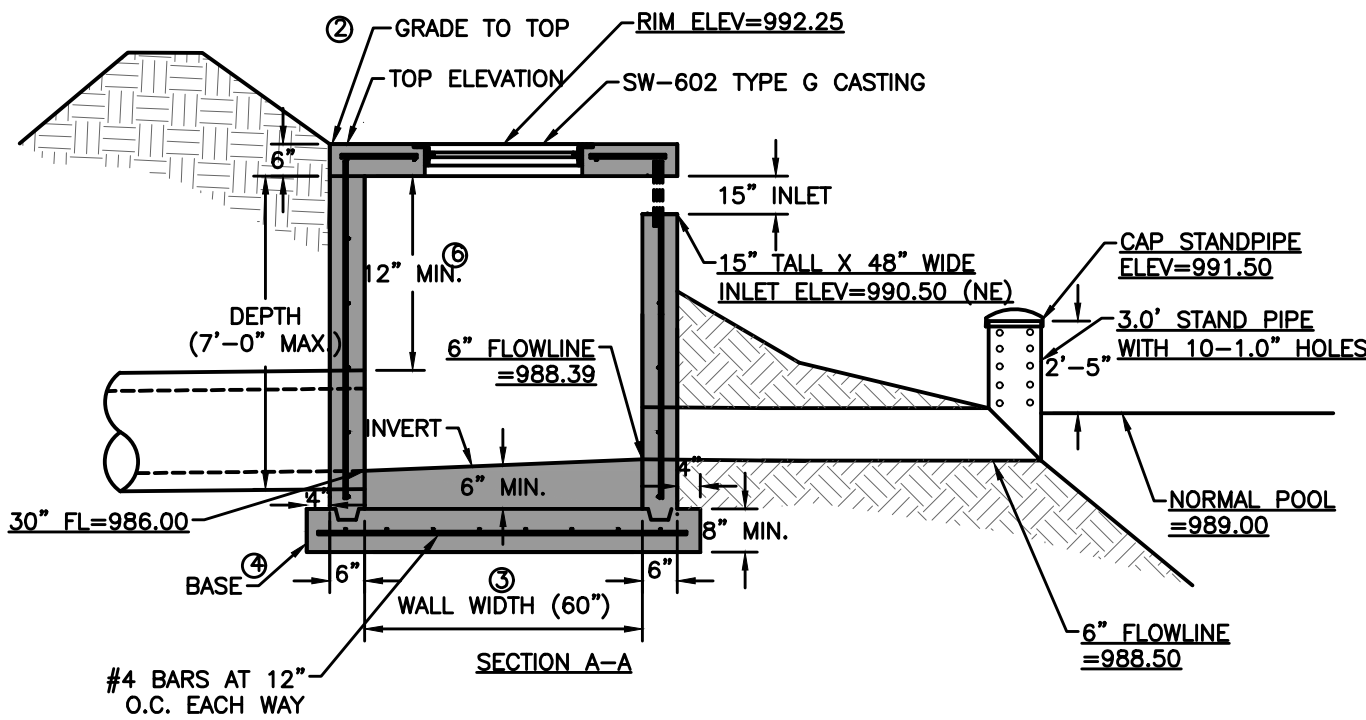
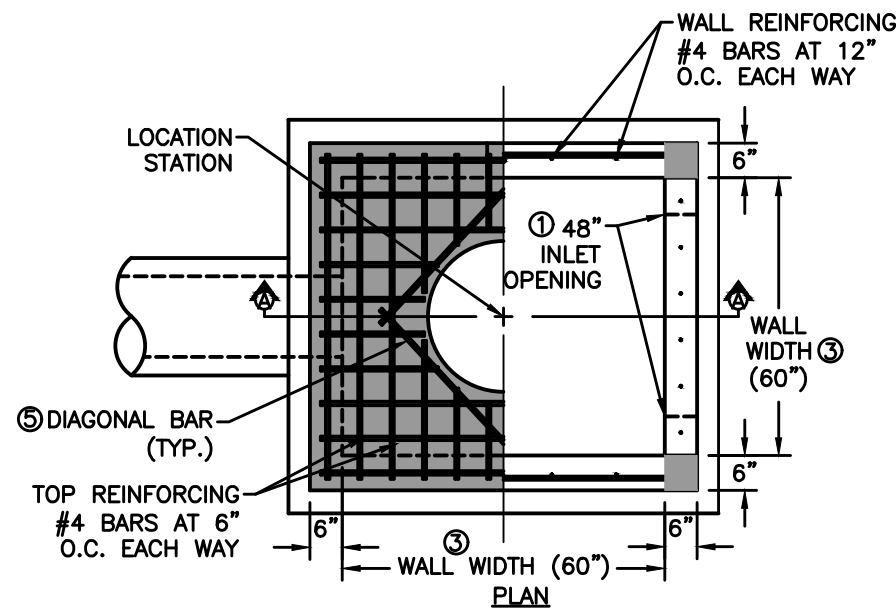
① Parallel Curb Ramp: Target cross slope of 1.5% with a maximum cross slope of 2.0%. The length of the parallel ramp is not to exceed 15 feet, regardless of resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.
② Turning Space: Target slope of 1.5% with a maximum slope perpendicular 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 RAMP FOR CLASS B OR C SIDEWALKS

NOT TO SCALE



- ① 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.
- CONSTRUCT 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.
- ② GRADE TO TOP ELEVATION ON CLOSED SIDES.
- ③ WALL WIDTHS VARY WITH PIPE DIAMETER. 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.

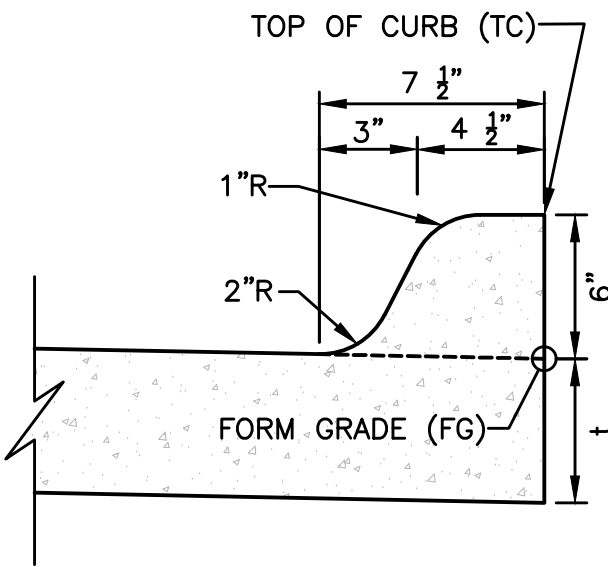


NOTE: TO PROTECT THE STANDPIPES DURING CONSTRUCTION INSTALL FILTER FABRIC AROUND BOTTOM HALF OF STANDPIPE AND INSTALL TEMPORARY EROSION STONE AROUND PIPE. IN ORDER TO CONVERT SEDIMENT BASIN INTO A PERMANENT FINAL CONDITION, REMOVE THE FILTER FABRIC AND EROSION STONE AROUND THE STANDPIPE AND CLEAN OUT SEDIMENT AROUND PIPE. FOR LONG TERM & POST-CONSTRUCTION MAINTENANCE, REFER TO THE IOWA STORM WATER MANAGEMENT MANUAL, SECTION 9.11-4.

NOTE: ONCE ALL LOTS IN FUTURE PARKSIDE PLATS HAVE BEEN DEVELOPED, THE TEMPORARY SEDIMENT BASIN CAN BE REMOVED.

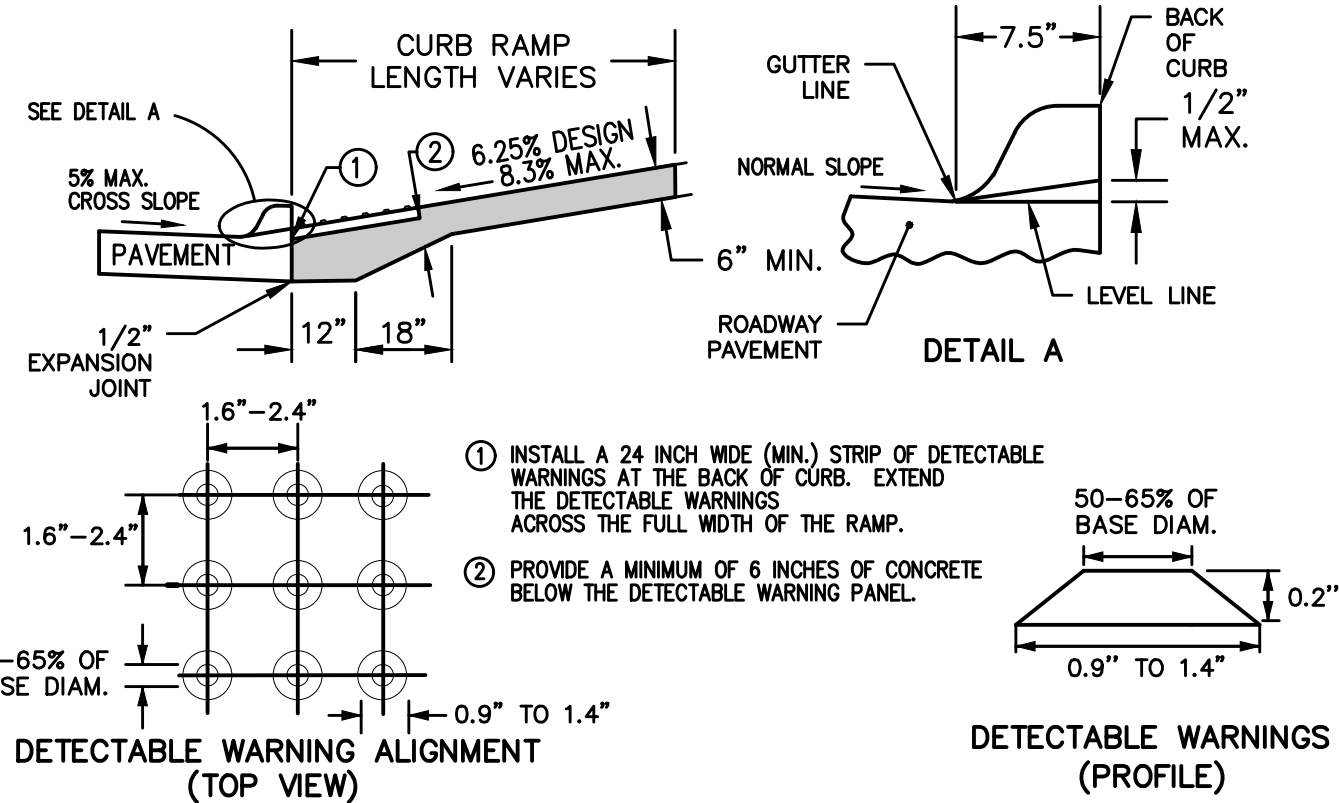
5'X5' SW-513 INTAKE W/ STANDPIPE (ST-2)

NOT TO SCALE



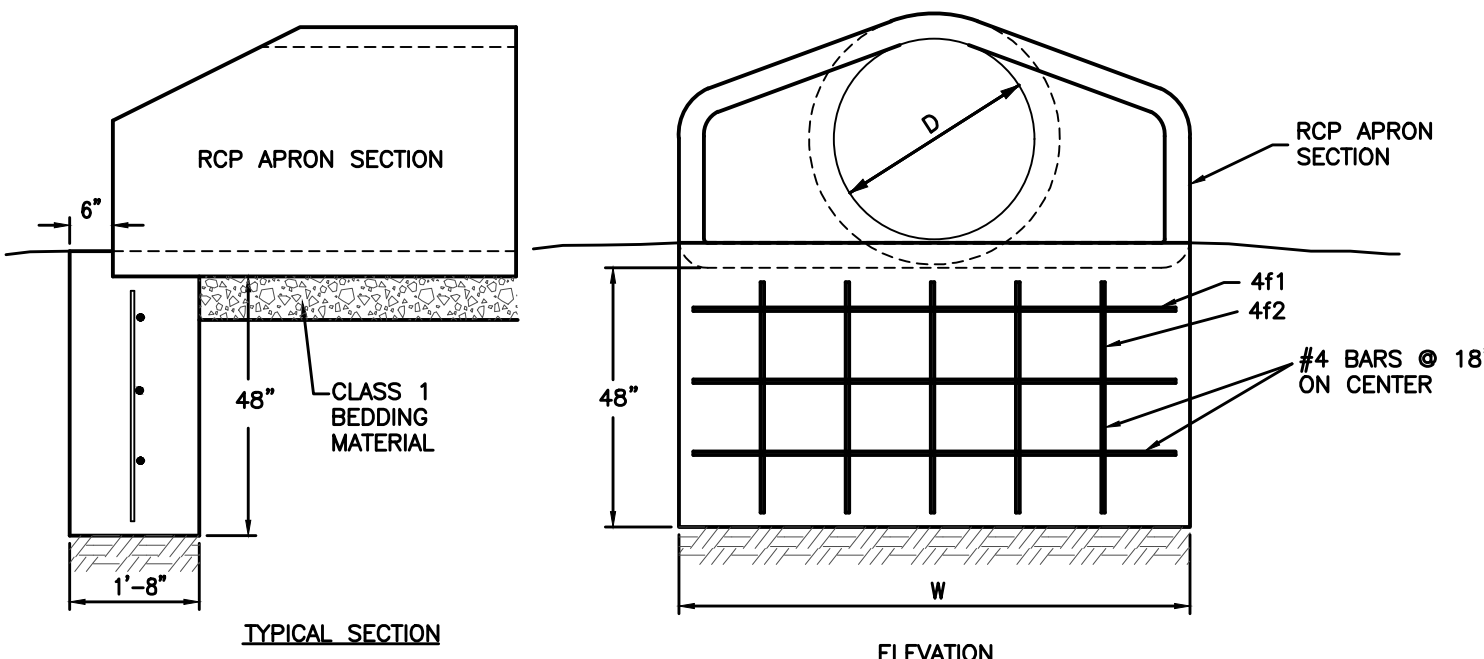
INTEGRAL 6" STANDARD SPOT ELEVATION REFERENCE DETAIL

NOT TO SCALE



DETECTABLE WARNING DETAIL

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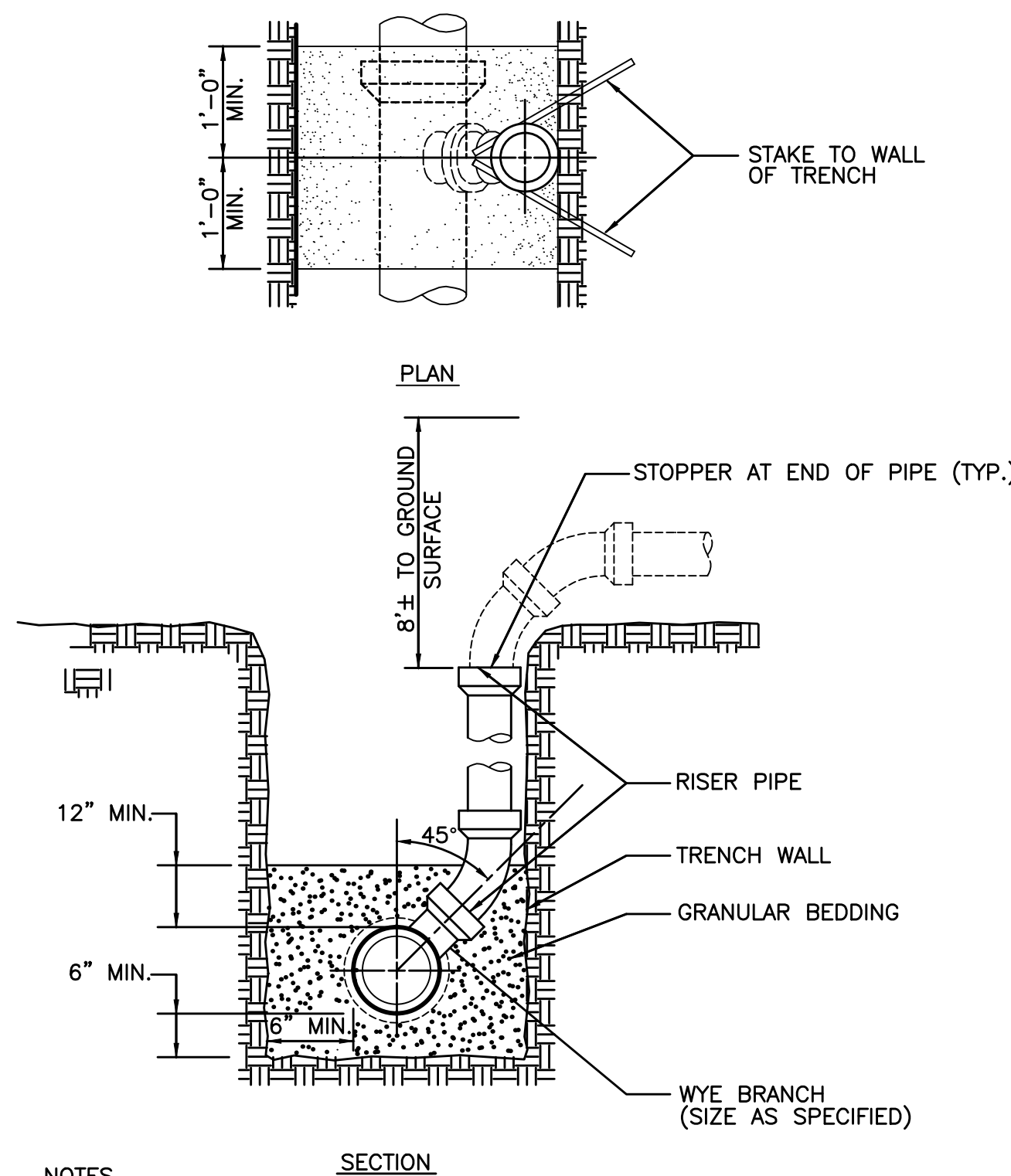


- NOTES:
1. INSTALL A 3 FOOT CLAY WATER STOP AT ALL STORM SEWER OUTLETS.
 2. TRASH GUARDS ARE NOT ALLOWED ON PIPES LARGER THAN 48" IN DIAMETER.

RCP APRON FOOTING DETAIL

NOT TO SCALE

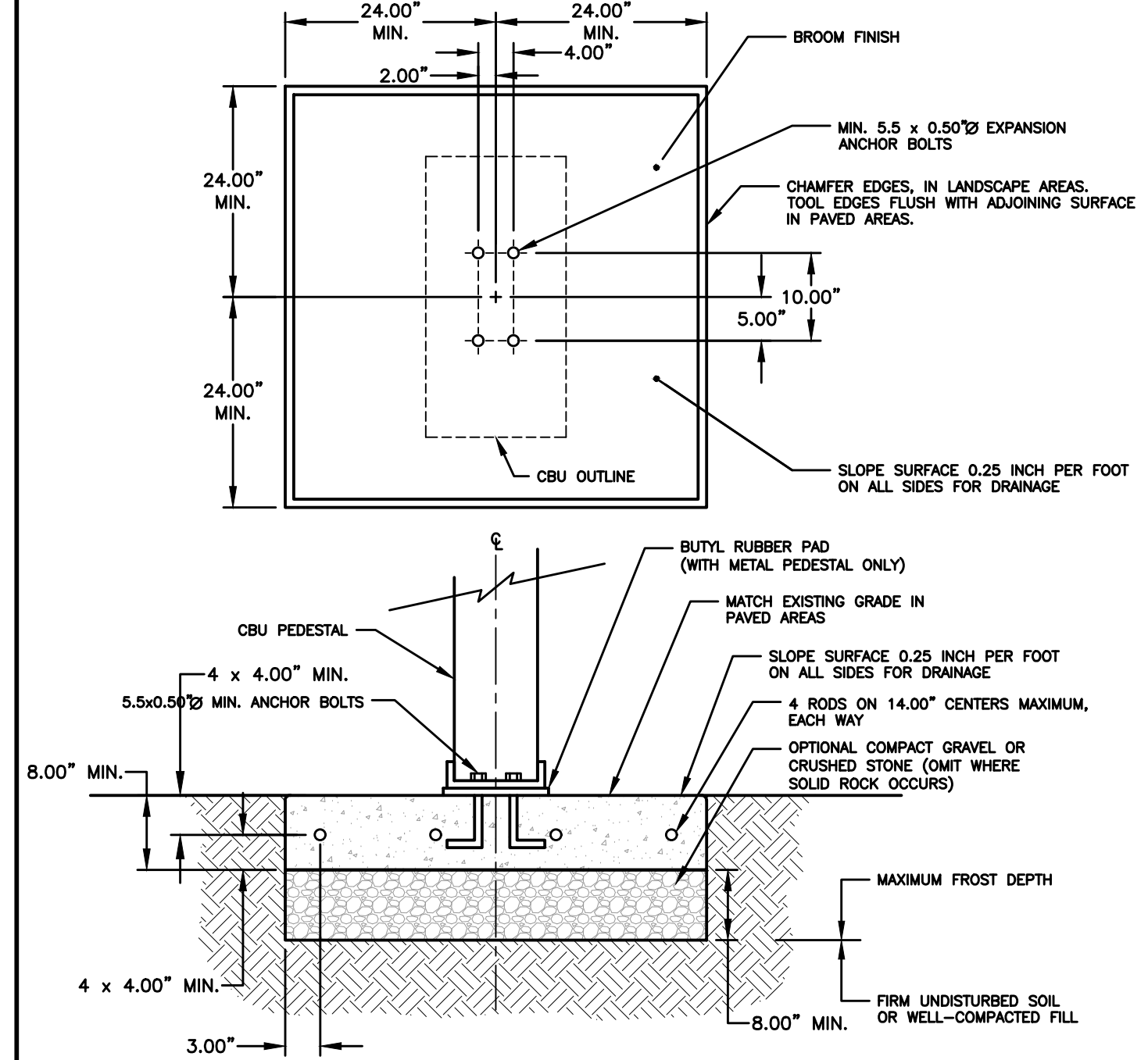
REINFORCING BAR LIST													
D	W	Mark	Size	Length	Count		D	W	Mark	Size	Length	Count	
12"	2'-4"	4f1	4	2'-0"	3		48"	7'-10"	4f1	4	7'-6"	3	
		4f2	4	3'-8"	2				4f2	4	3'-8"	6	
15"	2'-10"	4f1	4	2'-6"	3		54"	8'-5"	4f1	4	8'-1"	3	
		4f2	4	3'-8"	2				4f2	4	3'-8"	6	
18"	3'-5"	4f1	4	3'-1"	3		60"	8'-11"	4f1	4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



- NOTES:
1. INSTALL RISER TO BEAR FIRMLY AGAINST UNDISTURBED WALL OF TRENCH. STAKE RISER PIPE IN PLACE PRIOR TO BACK-FILLING TO PREVENT MOVEMENT OF PIPE.
 2. NOTCH WALL OF TRENCH TO RECEIVE PIPE WHERE POSSIBLE.

SANITARY SEWER SERVICE RISER

NOT TO SCALE



- NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN. - 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50" - 4.00" SLUMP IN ACCORDANCE WITH ACI 301.
 2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
 3. EXPANSION BOLTS SHALL BE EQUIVALENT TO THE FOLLOWING PROVIDERS:
A. HILTI KWIK BOLT (WWW.HILTI.COM) 1/2" DIAMETER X 5-1/2" OVERALL LENGTH, GALVANIZED. CATALOG # 000-453-696 KB II 12-512, STAINLESS STEEL: CATALOG # 000-454-744. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3-1/2".
B. ITW RAMSET REDHEAD TRUBOLT (WWW.RAMSET-REDHEAD.COM) GALVANIZED, 1/2" DIAMETER X 7" OVERALL LENGTH; CATALOG NUMBER: WS-12700. ENSURE THAT MIN. EMBEDMENT IS CONCRETE IS AT LEAST 4-1/8".
C. RAWL STUD (WWW.RAWL.COM) GALVANIZED, 1/2" X 5-1/2" OVERALL LENGTH; CATALOG NUMBER: 7724. ENSURE THAT MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4".

MAILBOX CLUSTER PAD DETAIL

NOT TO SCALE

REVISIONS		DATE	BY
2ND AS-BUILT SUBMITTAL	12/05/2024	JMM	JDS
1ST AS-BUILT SUBMITTAL	10/25/2024	JMM	JDS
FINAL SUBMITTAL	04/26/2024	JMM	JDS
3RD SUBMITTAL	04/16/2024	JMM	JDS
2ND SUBMITTAL	03/29/2024	JMM	JDS
1ST SUBMITTAL	03/12/2024	JMM	JDS

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

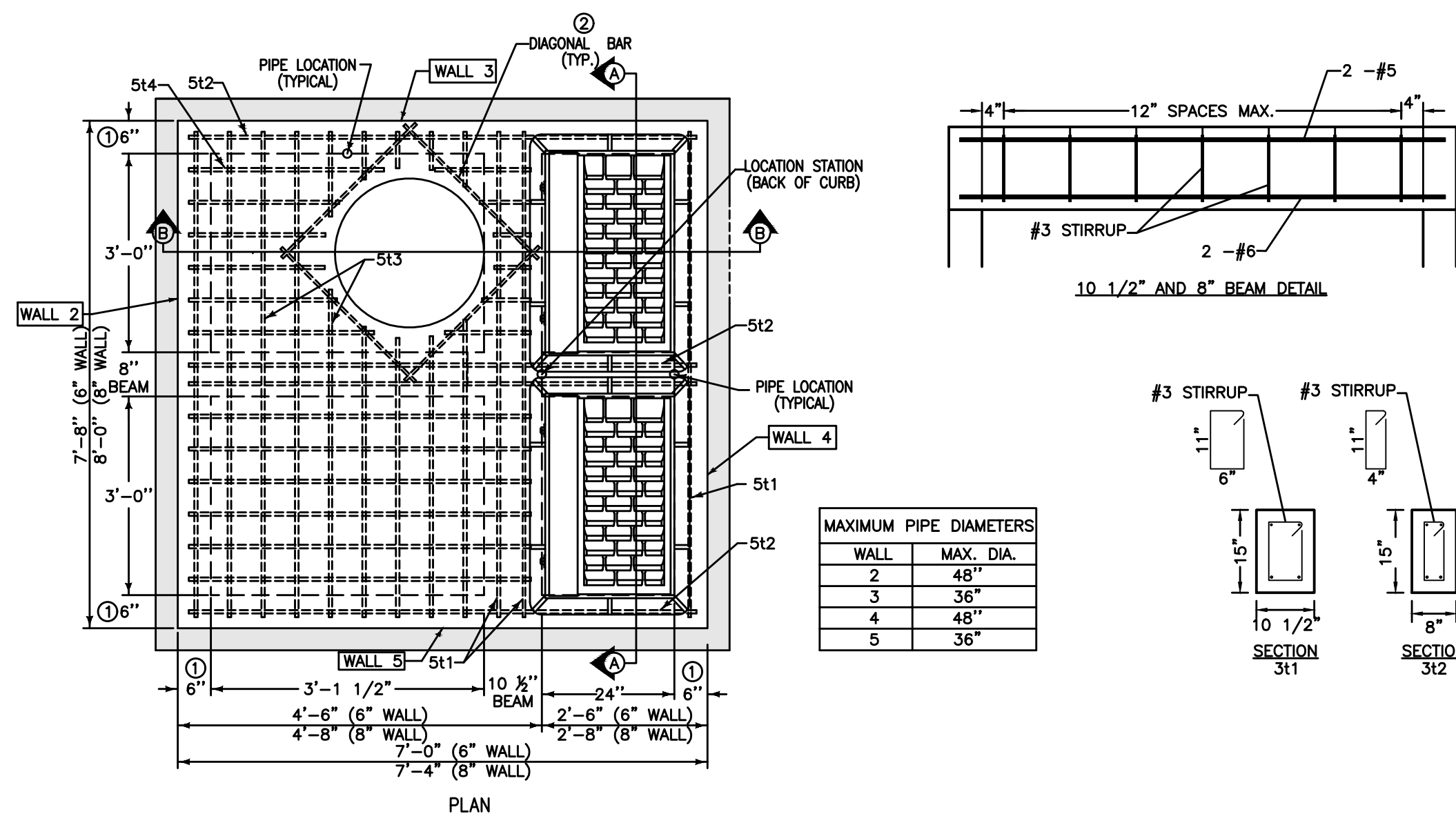
TECH: JDS

ENGINEER: JMM



WAUKEE, IOWA

PARKSIDE PLAT 1 TYPICAL SECTIONS AND DETAILS

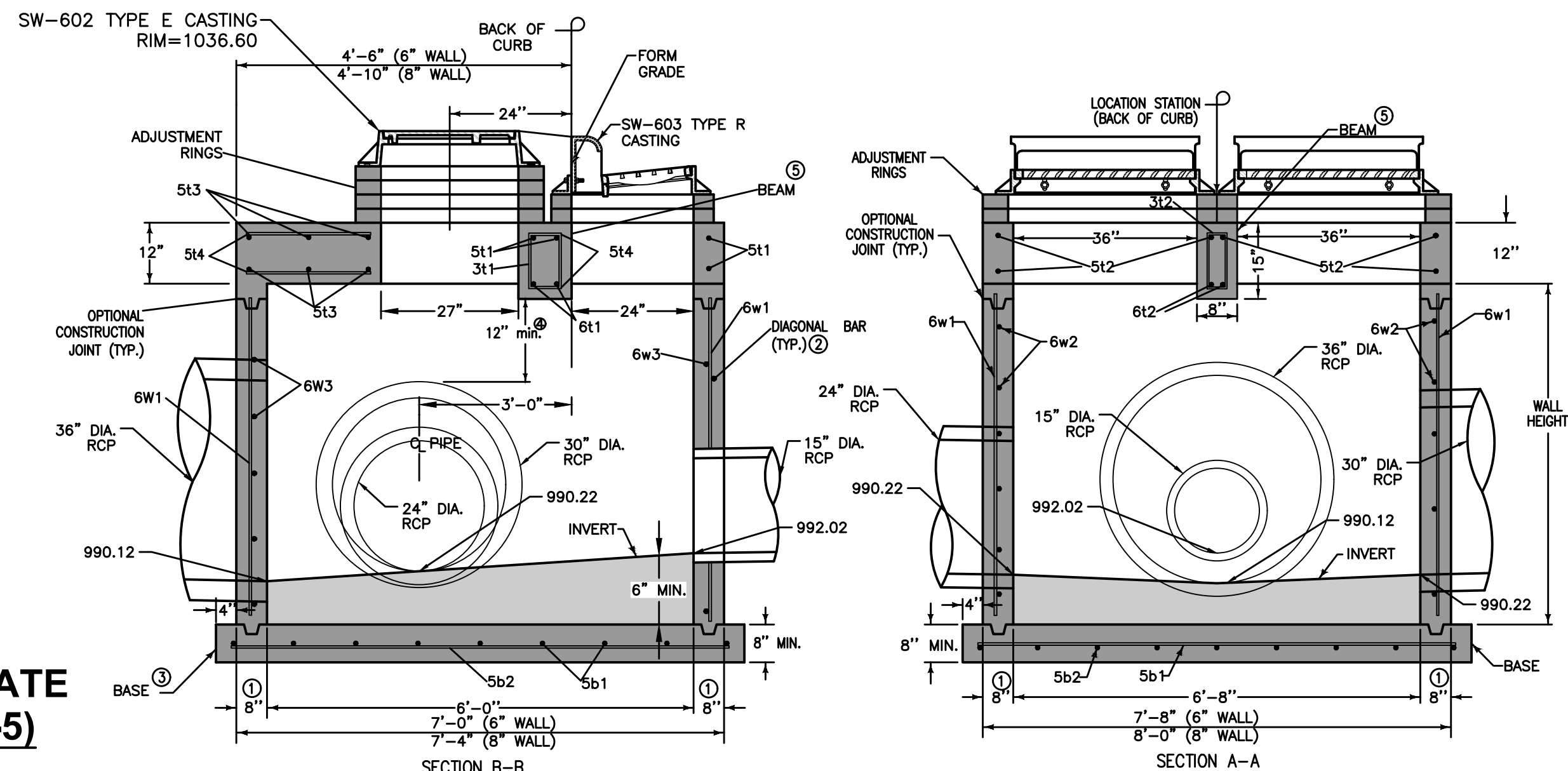


REINFORCING BAR LIST									
MARK	SIZE	LOCATION	SHAPE	COUNT		LENGTH		SPACING	
				6" WALL	8" WALL	6" WALL	8" WALL	6" WALL	8" WALL
31t	3	TOP		7	7	3'-2 1/2" *	3'-2 1/2" *	12" 12"	
32t	3	TOP		2	8	2'-10" *	2'-10" *	10 3/4" 10 3/4"	
5b1	5	BASE		9	9	7'-10" *	8'-2" *	12 1/4" 12 3/4"	
5b2	5	BASE		9	9	8'-2" *	8'-6" *	11 3/4" 12 1/4"	
6w1	6	WALLS		30	30	WALL HEIGHT	MINUS 4"	12" 12"	
6w2	6	WALLS		VARIABLES	VARIABLES	7'-8"	8'-0"	12" 12"	
6w3	6	WALLS		VARIABLES	VARIABLES	7'-4"	7'-8"	12" 12"	
5b1	5	TOP		4	4	7'-8"	7'-8"	SEE DETAILSEE DETAIL	
5b2	5	TOP		6	6	7'-8"	7'-8"	SEE DETAILSEE DETAIL	
5b3	5	TOP		18	18	7'-4"	7'-8"	8" 8"	
5b4	5	TOP		24	24	5'-2"	5'-4"	5 1/4" 6"	
6t1	6	TOP		2	2	7'-4"	7'-8"	SEE DETAILSEE DETAIL	
6t2	6	TOP		2	2	7'-8"	8'-0"	SEE DETAILSEE DETAIL	

- ① USE 8" WALL OPTION FOR INTAKE DEPTHS GREATER THAN 7'-0" AND LESS THAN 10'-0".
- ② INSTALL FOUR #4 DIAGONAL BARS AT MANHOLE OPENING AND AT ALL PIPE OPENINGS.
- ③ 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.
- ④ 12 INCH MINIMUM WALL HEIGHT ABOVE ALL PIPES.
- ⑤ CONSTRUCT 8"x15" AND 10 ½"x15" P.C. CONCRETE BEAMS INTEGRAL WITH 12" P.C. CONCRETE FLAT TOP.

SW-506 MODIFIED DOUBLE GRATE INTAKE WITH MANHOLE (ST-5)

NOT TO SCALE



FILE: H:\2024\240212\DWG\AS-BUILTS\240212--COV DET TAB--AS-BUILT.DWG
PLOT: 12/17/2024 12:17 PM
PLOTED BY: JMM, STONEBERG
DATE: 12/17/2024 6:32 AM
TIME: 6:32 AM
USER: JMM

ESTIMATED PROJECT QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1	COMBINED CLEARING AND GRUBBING	AC	23.17
2	STRIPPING, SALVAGING AND SPREAD TOPSOIL	LS	1
3	CLASS 10 EXCAVATION	LS	1
4	SUBGRADE PREPARATION	SY	34,361
5	SANITARY SEWER GRAVITY MAIN, 8" DIA, PVC	LF	2,794
6	SANITARY SEWER SERVICE STUB, 4" DIA	EA	52
7	SUBDRAIN, 6" PERFORATED PVC	LF	2,550
8	STORM SEWER, TRENCHED, 8" PERFORATED PVC	LF	757
9	STORM SEWER, TRENCHED, 10" PVC	LF	11
11	STORM SEWER, TRENCHED, 15" RCP	LF	834
12	STORM SEWER, TRENCHED, 18" RCP	LF	1,141
13	STORM SEWER, TRENCHED, 24" RCP	LF	465
14	STORM SEWER, TRENCHED, 30" RCP	LF	266
15	STORM SEWER, TRENCHED, 36" RCP	LF	168
16	STORM SEWER SERVICE STUB, 4" DIA	EA	52
17	STORM SEWER, 8" CMP APRON W/ APRON GUARD	EA	1
18	STORM SEWER, 15" RCP APRON W/ FOOTING & APRON GUARD	EA	5
19	STORM SEWER, 18" RCP APRON W/ FOOTING & APRON GUARD	EA	3
20	STORM SEWER, 30" RCP APRON W/ FOOTING & APRON GUARD	EA	1
21	STORM SEWER, 36" RCP APRON W/ FOOTING & APRON GUARD	EA	1
22	WATER MAIN, 8" DIA	LF	2,800
23	WATER MAIN, 8" DIA, TRENCHLESS	LF	60
24	WATER MAIN, 12" DIA	LF	1,585
25	WATER SERVICE STUB, 1" DIA	EA	52
26	VALVE, 8" DIA	EA	7
27	VALVE, 12" DIA	EA	4
28	FIRE HYDRANT ASSEMBLY	EA	14
29	TEMPORARY FIRE HYDRANT	EA	3
30	MANHOLE, SW-301, 48" (SANITARY SEWER)	EA	12
31	MANHOLE, SW-401, 48" (STORM SEWER)	EA	5
32	MANHOLE, SW-401, 60" (STORM SEWER)	EA	2
33	MANHOLE, SW-401, 72" (STORM SEWER)	EA	1
34	INTAKE, SW-501	EA	5
35	INTAKE, SW-503	EA	5
36	INTAKE, SW-505	EA	4
37	INTAKE, SW-506	EA	3
38	INTAKE, SW-506 MOD	EA	1
39	INTAKE, SW-513, 5 FT. X 5 FT.	EA	1
40	PAVEMENT, 7" P.C.C.	SY	8,542
41	PAVEMENT, 8" P.C.C.	SY	777
42	PAVEMENT, 4" P.C.C. SIDEWALK	SY	13
43	PAVEMENT, 6" P.C.C. SIDEWALK RAMPS	SY	153
44	DETECTABLE WARNING PANELS	SF	200
45	SEEDING, FERTILIZING, AND MULCHING	AC	20.21
46	TRAFFIC CONTROL	LS	1
47	EROSION CONTROL	LS	1
48	SUBDRAIN CLEANOUT	EA	6
49	MAILBOX PAD	EA	2
50	ROCK OUTLET PROTECTION, CLASS 'E' RIP RAP	TON	45
51	PERMANENT ROAD CLOSURE, URBAN, SI-182	EA	5
52	TURF REINFORCEMENT MAT - ROLLMAX P300 PERMANENT TRM	SF	2,160

GENERAL NOTES

1.

ALL CONSTRUCTION SHALL CONFORM TO THE 2023 EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND TO THE 2024 EDITION OF SUDAS STANDARD SPECIFICATIONS. THE WAUKEE STANDARD SPECIFICATIONS SHALL GOVERN IF ANY DISCREPANCIES.
2.

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
3.

THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 800-292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
4.

THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT OR SIDEWALK NOT TO BE REMOVED THAT IS DAMAGED DUE TO OPERATING HIS EQUIPMENT ON THE PAVEMENT OR SIDEWALK. PAVEMENT REPLACEMENT SHALL COMPLY WITH THE WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
5.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK BETWEEN ALL SUPPLIERS AND SUBCONTRACTORS INVOLVED IN THE PROJECT. INCLUDING STAGING OF CONSTRUCTION DETAILS.
6.

THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN THE PROPOSED AND EXISTING RIGHT OF WAY, CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7.

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY (48 HRS NOTICE) THE FOLLOWING:

A. CITY OF WAUKEE ENGINEERING DEPARTMENT

B. APPROPRIATE UTILITY COMPANIES

C. OWNER

D. CIVIL DESIGN ADVANTAGE
- *

48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO WEEKEND AND HOLIDAY WORK.
8.

PRIOR TO CONSTRUCTION, THE PROJECT MANAGER SHALL CONTACT THE WAUKEE ENGINEERING DEPARTMENT AND SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST ONE WEEK PRIOR TO THE ANTICIPATED START OF CONSTRUCTION.
9.

SPECIAL CARE SHALL BE TAKEN WHEN FORMING AT INTERSECTIONS SO THE PROFILES SHOWN ON THE PLANS AND THE ELEVATIONS SHOWN ON THE INTERSECTION DETAILS ARE OBTAINED. SHORT LENGTHS OF FORMS OR FLEXIBLE FORMS MAY BE NECESSARY AT THESE LOCATIONS.
10.

TO OBTAIN THE CORRECT FORM GRADES AT LOW POINTS WHERE INTAKES ARE LOCATED, THE CONTRACTOR MUST EXERCISE ADDITIONAL CARE WHEN PAVING FULL WIDTH PAVEMENTS. THIS MAY REQUIRE POURING ONE HALF OF THE PAVEMENT AT A TIME OR OTHER METHODS APPROVED BY THE ENGINEER.
11.

THE CONTRACTOR MAY BE REQUIRED AS DIRECTED BY THE ENGINEER OR THE CITY, TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY. THIS SHALL BE INCIDENTAL TO THE BID ITEM TRAFFIC CONTROL. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ROAD BARRICADES AT END OF EXISTING PAVEMENTS UNTIL THE PROJECT IS ACCEPTED.
12.

PLAN AND PROFILE SHEETS INCLUDED IN THE PROJECT ARE FOR THE PURPOSE OF ALIGNMENT, LOCATION AND SPECIFIC DIRECTIONS FOR WORK TO BE PERFORMED UNDER THIS CONTRACT. IRRELEVANT DATA ON THESE SHEETS IS NOT TO BE CONSIDERED A PART OF THIS CONTRACT.
13.

THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
14.

THE CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH AND COMPLY WITH OSHA STANDARDS. NOTHING WITHIN THESE PLANS SHALL RELIEVE THE CONTRACTOR OF THIS REQUIREMENT.
15.

ALL MATERIAL TESTING SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.
16.

PRIOR TO ANY WORK AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER, ENGINEER, AND/OR ARCHITECT, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANY REPRESENTATIVES. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
17.

ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
18.

ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.
19.

SIDEWALKS, ACCESSIBLE CURB RAMPS AND SIDEWALK RAMPS INCLUDING RAISED TRUNCATED DOME AND DETECTABLE WARNINGS AND WARNING PANELS SHALL BE DESIGNED AND INSTALLED TO THE LATEST P.R.O.W.A.G. AND A.D.A. REQUIREMENTS.
20.

PLACE 3/4" EXPANSION JOINT BETWEEN ALL P.C.C. PAVEMENT/SIDEWALKS AND BUILDINGS. PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALKS AND P.C.C PAVEMENT. THE PCC RAMP JOINT LOCATED AT THE BACK OF CURB AND ALL EXPANSION JOINTS SHALL BE SEALED.
21.

REMOVE DEBRIS SPILLED INTO R.O.W. AT THE END OF EACH WORK DAY AND BEFORE RAIN EVENTS.
22.

DO NOT STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN THE R.O.W.
23.

ALL PROPERTY PINS SHALL BE PROTECTED FROM GRADING OR OTHER OPERATIONS. ANY PINS DISTURBED SHALL BE RESET AT THE CONTRACTOR'S EXPENSE.
24.

IN THE EVENT OF A DISCREPANCY BETWEEN DETAILED PLANS AND QUANTITIES, THE DETAILED PLANS SHALL GOVERN.
25.

ALL FIELD TILES ENCOUNTERED SHALL BE REPAIRED AND CONNECTED TO STORM SEWERS WHERE POSSIBLE. LOCATIONS SHALL BE PROVIDED TO THE ENGINEER FOR NOTATION ON AS-BUILTS.
26.

ALL CONSTRUCTION STAKING TO BE COMPLETED UNDER THE DIRECTION OF A LICENSED ENGINEER OR LAND SURVEYOR. ALL CURB DROPS AND SIDEWALK/SHARED USE PATH SHALL ALSO BE STAKED UNDER THE DIRECTION OF A LICENSED ENGINEER OR LAND SURVEYOR
27.

THE CONTRACTOR SHALL SUBMIT A LIST OF CONSTRUCTION MATERIALS TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
28.

A GEOTECHNICAL ENGINEER SHALL BE ONSITE DURING CONSTRUCTION AND FOR PROOF ROLLING TO INSPECT SOILS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE GEOTECHNICAL ENGINEER IS PRESENT. A COPY OF ALL REPORTS AND FINDINGS REQUIRING ALTERATION FROM THE APPROVED PLAN SET IS TO BE PROVIDED TO THE WAUKEE ENGINEERING DEPARTMENT FOR REVIEW AND DISCUSSION PRIOR TO COMMENCING WITH PAVING WITHIN THE PROJECT.
29.

THE CONTRACTOR SHALL COORDINATE ALL EXISTING PUBLIC UTILITY CONNECTIONS WITH THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
30.

ALL TESTING SHALL BE COMPLETED ACCORDING TO THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE WAUKEE ENGINEERING DEPARTMENT SHALL BE PRESENT TO WITNESS ALL TESTING.
31.

AS-BUILTS SHALL BE PROVIDED TO THE WAUKEE ENGINEERING DEPARTMENT INCLUDING ALL UTILITIES AND AS-BUILT GRADES FOR DRAINAGE SWALES, OVERFLOWS, ACCESSIBLE RAMPS AND DETENTION FACILITIES. THE CONTRACTOR SHALL PROVIDE INFORMATION TO THE DESIGN ENGINEER FOR INCLUSION ON THE RECORD AS-BUILT DRAWINGS.
32.

THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND TELEVISION ALL STORM AND SANITARY SEWERS. THE CITY OF WAUKEE ENGINEERING DEPARTMENT SHALL WITNESS AND APPROVE ALL CLEANING AND TELEVISION PRIOR TO PAVING. A COPY OF THE VIDEOS AND A HARD COPY OF THE INSPECTION REPORT SHALL BE PROVIDED TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT. ALL SANITARY SEWER MANHOLES ARE TO BE VACUUM TESTED.
33.

ALL FIRE HYDRANTS INCLUDING ANY RELOCATED HYDRANTS SHALL HAVE 5-INCH STORZ FITTINGS.
34.

ALL PROPOSED PEDESTRIAN CROSSINGS SHALL BE INSTALLED AS PART OF THE PLAT IMPROVEMENTS.
35.

ALL CONNECTIONS TO EXISTING MANHOLES ARE TO BE CORE DRILLED AND USE A LINK SEAL.
36.

ANY FIELD FENCE LOCATED WITHIN THE PROPERTY IS TO BE REMOVED.
37.

ALL EXISTING AND PROPOSED MANHOLES SHALL HAVE A MINIMUM OF 1 - 4" ADJUSTING RING TO ALLOW FOR FUTURE ADJUSTMENT SHOULD THE STRUCTURE END UP IN A DRIVEWAY.
38.

THE RESULTS OF THE GEOTECHNICAL EXPLORATION ARE TO BE PROVIDED TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT AND THE PLAN IS SUBJECT TO ANY CHANGES REQUIRED BY THE REPORT.
39.

THIS SITE WILL HAVE SAWCUTTING AND CONCRETE GRINDING SO PROTECTION OF STORM SEWERS AND DRAINAGE WAYS FROM SLURRY WILL NEED TO OCCUR FOR ALL OFFSITE DISCHARGE.

ESTIMATE REFERENCE INFORMATION	
Data listed below is for informational purpose only and shall not constitute a basis for any extra work orders.	
ITEM NO.	DESCRIPTION
	THE 2023 EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2024 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.
	ALL REFERENCES TO SECTIONS AND FIGURES ARE TO THE SUDAS STANDARD SPECIFICATIONS. CITY OF WAUKEE STANDARD DETAILS SHALL GOVERN IF ANY DISCREPANCIES.
1	CLEAR AND GRUB ALL AREAS AFFECTED BY GRADING OPERATIONS. THE CONTRACTOR SHALL FIELD VERIFY CLEARING AND GRUBBING NEEDS PRIOR TO BIDDING. INCLUDES REMOVAL OF ANY EXISTING FIELD FENCE. ALL MATERIAL THAT IS REMOVED FROM THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. INCLUDED REMOVAL OF EXISTING CROPS FOR CONSTRUCTION OF TEMPORARY ACCESS. DO NOT DISTURB CROPS OUTSIDE OF THE PROJECT LIMITS. AREA SHOWN FOR REFERENCE ONLY.
2	STRIP, SALVAGE AND RE-SPREAD TOPSOIL PER SECTION 2010 OF SUDAS STANDARD SPECIFICATIONS OR PROVIDE THE CITY WITH A TOPSOIL PRESERVATION PLAN. TOPSOIL TO BE RESPREAD SHALL BE FREE OF ROCK AND DEBRIS AND BE SUITABLE FOR THE GROWTH OF GRASS. COORDINATE LOCATION OF STOCKPILE WITH OWNER.
3	EXCAVATION INCLUDES ALL WORK NECESSARY TO ACHIEVE PROPER GRADES AS SHOWN IN THE PLANS. NO PAYMENT FOR OVERHAUL SHALL BE ALLOWED.
4	REFER TO SHEET 4 FOR TYPICAL LOCATIONS AND THICKNESS.
5	SANITARY SEWER SHALL BE PVC TRUSS PIPE. ANY CONNECTIONS TO EXISTING SANITARY SEWER SHALL BE CONSIDERED INCIDENTAL. REFER TO FIG. 3010.101 AND 3010.103 FOR PIPE EMBEDMENT DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. EXISTING SANITARY SEWER WILL NEED TO BE RETESTED AFTER SADDLE WYE INSTALLATION. REFER TO SHEET 17 FOR LOCATION TRENCHLESS SANITARY SEWER TO BE INSTALLED PER SUDAS 3020.304.
5-15	REFER TO FIGURE 3010.102 FOR TRENCH BEDDING AND BACKFILL ZONE DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. CONNECTIONS TO EXISTING STORM SEWER PIPE AND STRUCTURES SHALL BE CONSIDERED INCIDENTAL. WRAP ALL PIPE JOINTS IN ENGINEERING FABRIC. CLEAN AND TELEWISE SANITARY AND STORM SEWER PRIOR TO PAVING AND PROVIDE TELEVISION REPORT TO CITY IN HARD COPY AND DISC FORMAT. TELEVISION SHALL BE CONSIDERED INCIDENTAL. ALL STORM SEWER PIPE THAT CROSSES OVER WATERMAIN SHALL HAVE O-RING GASKETS JOINT RATED AT 13 PSI OR GREATER. O-RING GASKET JOINTS SHALL BE INSTALLED ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER TO THE SEWER IS AT LEAST 10 FEET. THE ROCK CHIMNEY IS INCIDENTAL TO STORM SEWER CONSTRUCTION WHEN THE STORM SEWER HAS DUAL PURPOSE OF STORM SEWER AND SUBDRAIN. REFER TO SHEET 2 FOR THE CITY STANDARD SUBDRAIN DETAIL.
6,16,26	REFER TO DETAILS ON SHEETS 2, 3 AND PLAN AND PROFILE SHEETS FOR LOCATION AND DEPTH. BRINGING STORM AND SANITARY SERVICES TO GROUND LEVEL, PLACING A WATERTIGHT CAP AND INSTALLING A POST SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.
17-21	THE LAST THREE SECTIONS AND APRON SHALL BE CONNECTED WITH PIPE CONNECTORS. REFER TO FIG. 4030.221 - RCP APRON SECTION FOOTING FOR FOOTING CONSTRUCTION DETAILS. APRON GUARD REQUIRED ON ALL APRONS. RCP APRON FOOTING, PIPE APRON GUARD AND PIPE CONNECTORS TO BE CONSIDERED INCIDENTAL. INSTALL CLAY WATERSTOPS AT ALL RCP APRONS, MIN. 3' LONG.
22, 24-27	REFER TO FIG. 3010.101 AND FIG. 3010.104 FOR TRENCH BEDDING AND BACKFILL ZONE DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. REFER TO FIG. 5010.101 FOR THRUST BLOCK DETAILS. REFER TO FIG. 5010.102 FOR TRACER SYSTEM DETAILS. ALL FITTINGS, POLYETHYLENE WRAP, THRUST BLOCKS, AND TRACER WIRE SYSTEM SHALL BE CONSIDERED INCIDENTAL.
23	REEFER TO SUDAS SECTION 3020 FOR TRENCHLESS CONSTRUCTION DETAILS.
28	REFER TO FIG. 5020.201 - FIRE HYDRANT ASSEMBLY FOR FIRE HYDRANT CONSTRUCTION DETAILS. INCLUDES ANCHORING TEE, ANCHORING ELBOW, GATE VALVE, VALVE BOX, ANCHORING PIPE, ANCHORING COUPLING, ELBOWS, 5" STORZ FITTINGS, POLYETHYLENE WRAP, THRUST BLOCK AND TRACER WIRE SYSTEM AND FIRE HYDRANT.
29	REFER TO WATERMAIN PLAN AND PROFILE SHEETS FOR LOCATIONS OF TEMPORARY BLOWOFF HYDRANTS. ANY RELOCATED FIRE HYDRANTS ARE TO INCLUDE 5-INCH STORZ FITTINGS.
30	REFER TO FIG.6010.301 - CIRCULAR SANITARY SEWER MANHOLE (SW-301) FOR CONSTRUCTION DETAILS. CASTINGS IN PAVEMENT SHALL BE TYPE A COVER WITH WITH PRO-RING ADJUSTMENT RINGS PER 2023 CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. WHEN CASTINGS ARE NOT IN PAVEMENT, INSTALL MANHOLE CONE SECTION, MANHOLE STEPS, AND RING/COVER CASTING SUCH THAT SEPARATION IS MAINTAINED BETWEEN MANHOLE COVERS AND PAVED AREAS (BACK OF CURB, SIDEWALK PAVEMENT, SIDEWALK APPROACHES/RAMPS). ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED.
31-33	REFER TO FIG. 6010.401 - CIRCULAR STORM SEWER MANHOLE (SW-401) FOR CONSTRUCTION DETAILS. MANHOLE INSIDE DIAMETERS GREATER THAN 48" SHALL BE CONSIDERED INCIDENTAL.

ESTIMATE REFERENCE INFORMATION	
Data listed below is for informational purpose only and shall not constitute a basis for any extra work orders.	
ITEM NO.	DESCRIPTION
34-38	REFER TO FIG. 6010.514 - BOXOUTS FOR GRATE INTAKES. REFER TO FIG. 6010.603 - CASTINGS FOR GRATE INTAKES FOR TYPE R GRATE DETAILS AND FIG. 6010.602 - CASTINGS FOR STORM SEWER MANHOLES FOR TYPE E CASTING DETAILS. THE MAXIMUM HEIGHT OF ADJUSTING RINGS ALLOWED FOR INTAKE CASTINGS IS 6". THE MAXIMUM HEIGHT OF ADJUSTING RINGS ALLOWED FOR MANHOLE CASTINGS IS 12".
34	REFER TO FIG. 6010.501 - SINGLE GRATE INTAKE (SW-501) FOR CONSTRUCTION DETAILS.
35	REFER TO FIG. 6010.503 - SINGLE GRATE INTAKE WITH MANHOLE (SW-503) FOR CONSTRUCTION DETAILS.
36	REFER TO FIG. 6010.505 - DOUBLE GRATE INTAKE (SW-505) FOR CONSTRUCTION DETAILS.
37	REFER TO FIG. 6010.506 - DOUBLE GRATE INTAKE WITH MANHOLE (SW-506) FOR CONSTRUCTION DETAILS.
38	REFER TO SHEET 4 FOR CONSTRUCTION DETAILS.
39	REFER TO FIG. 6010.513 - OPEN-SIDED AREA INTAKE FOR CONSTRUCTION DETAILS.
40-41	REFER TO FIG. 7010.101 - JOINTS (PV-101) FOR JOINT DETAILS. MAXIMUM C AND CD JOINT SPACING IS 15 FEET.
43	REFER TO FIG. 7030.204 - GENERAL SIDEWALK AND ACCESSIBLE RAMP DETAILS AND FIG. 7030.208 - CURB RAMPS WITHIN INTERSECTION RADIUS FOR CLASS B OR C SIDEWALK FOR CONSTRUCTION DETAILS. DETECTABLE WARNING PANELS TO BE CAST IRON WITH A NATURAL FINISH. ACCESSIBLE CURB RAMPS INCLUDING TURNING SPACES SHALL BE 6" THICK P.C.C.
44	REFER TO SHEET 3 FOR CONSTRUCTION DETAILS. ALL TRUNCATED DOMES SHALL BE CAST IRON.
45	THE SITE SEEDING SHALL CONFORM TO THE SPECIFICATION FOR TYPE (1) PERMANENT LAWN MIXTURE AND TYPE (4) URBAN TEMPORARY EROSION CONTROL SEED MIXTURE. SEEDING QUANTITIES -TYPE 1 PERMANENT LAWN MIXTURE = 0.83 AC -TYPE 4 URBAN TEMPORARY EROSION CONTROL MIXTURE = 19.38 AC
46	ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ROAD BARRICADES AT END OF EXISTING PAVEMENTS UNTIL THE PROJECT IS ACCEPTED. THE MESSAGE BOARD WILL BE REQUIRED AT LEAST 1 WEEK IN ADVANCE OF ANY LANE CLOSURES.
47	REFER TO SHEET 9 AND 10 OF THE CONSTRUCTION DRAWINGS FOR EROSION AND SEDIMENT CONTROLS. REFER TO SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR SPECIFIC DETAILS.
48	REFER TO SANITARY AND STORM PLAN AND PROFILE SHEETS FOR LOCATION.
49	REFER TO SHEET 3 FOR CONSTRUCTION DETAILS. MAILBOX PADS ARE LOCATED BETWEEN LOTS 35 AND 36, AND SOUTHWEST CORNER OF LOT 44.
50	INSTALL ENGINEERING FABRIC UNDER ALL RIP RAP. ENGINEERING FABRIC SHALL BE CONSIDERED INCIDENTAL. REFER TO STORM AND SANITARY SEWER PLAN AND PROFILE SHEETS FOR LOCATIONS.
51	REFER TO PLAN AND PROFILE SHEETS FOR LOCATIONS. REFER TO IDOT STANDARD ROAD PLAN SI-182 FOR CONSTRUCTION DETAILS. EACH LOCATION CONSISTS OF FIVE SIGNS WITH POSTS PER SI-182.
52	TURF REINFORCEMENT MATS SHALL BE ROLLMAX P300 PERMANENT TRM OR APPROVED EQUAL. TRM SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. REFER TO GRADING PLAN FOR LOCATIONS.

DATE

12/05/2024

10/25/2024

04/26/2024

04/16/2024

03/29/2024

03/12/2024

REVISIONS

2ND AS-BUILT SUBMITTAL

1ST AS-BUILT SUBMITTAL

FINAL SUBMITTAL

3RD SUBMITTAL

2ND SUBMITTAL

1ST SUBMITTAL

4121 NW URBANDALE DRIVE

URBANDALE, IA 50322

PHONE: (515) 369-4400

TECH: JDS

ENGINEER: JMM

P

A

CIVIL DESIGN ADVANTAGE

WAUKEE, IOWA

PARKSIDE PLAT 1

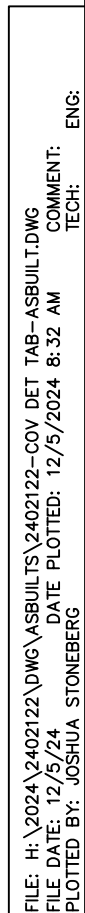
QUANTITIES, GENERAL NOTES AND

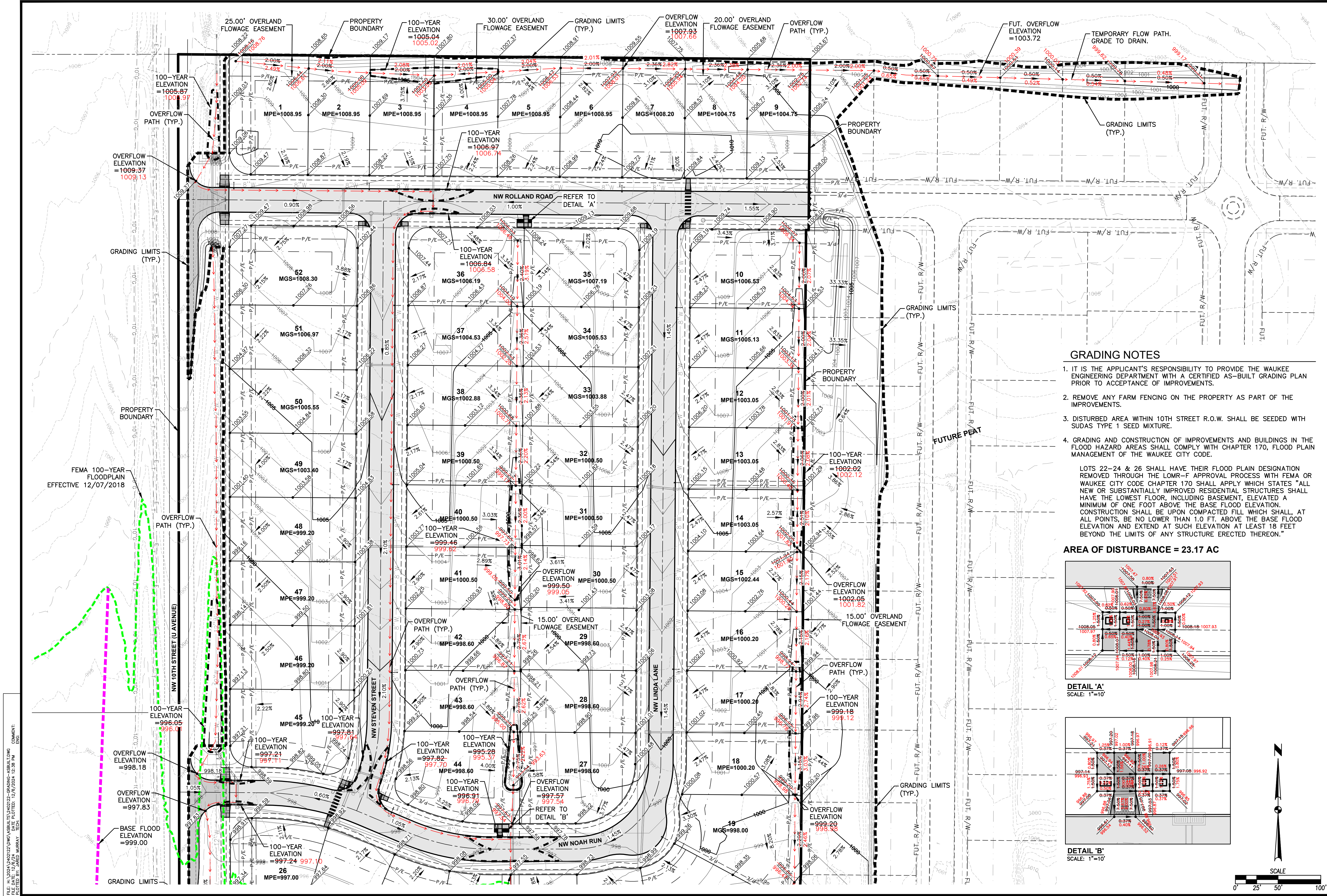
BID ITEM REFERENCE NOTES

5

39

2402.122



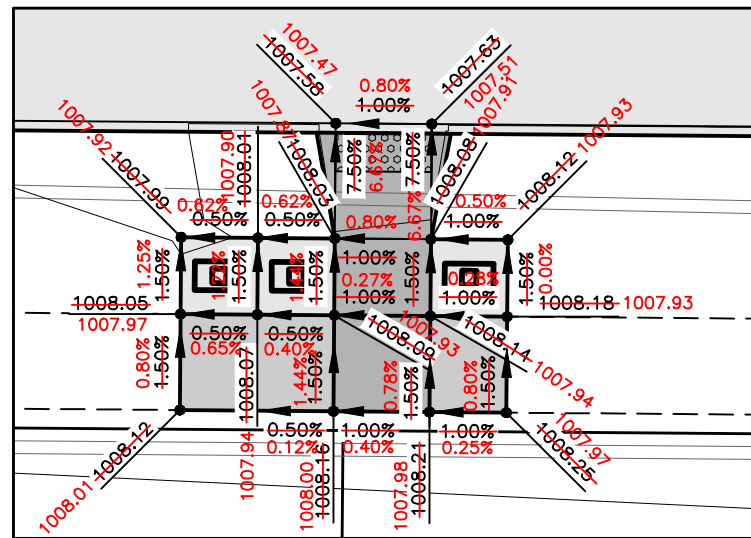


GRADING NOTES

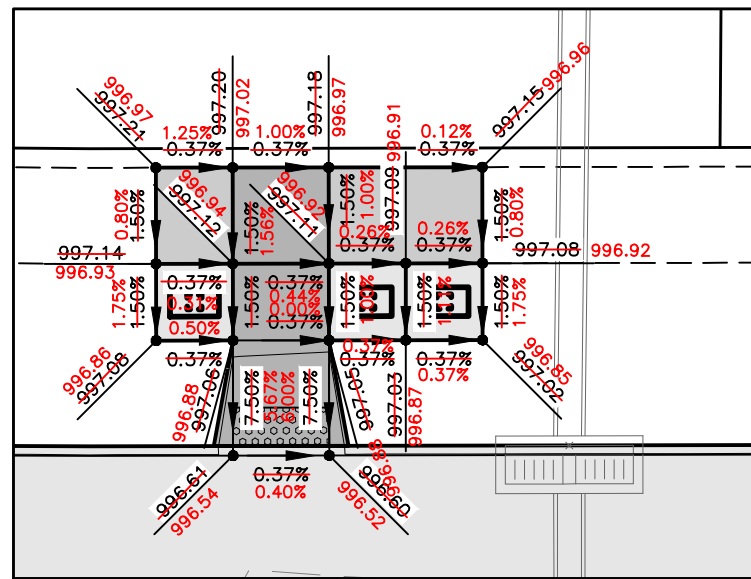
- IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE THE WAUKEE ENGINEERING DEPARTMENT WITH A CERTIFIED AS-BUILT GRADING PLAN PRIOR TO ACCEPTANCE OF IMPROVEMENTS.
- REMOVE ANY FARM FENCING ON THE PROPERTY AS PART OF THE IMPROVEMENTS.
- DISTURBED AREA WITHIN 10TH STREET R.O.W. SHALL BE SEEDED WITH SUDAS TYPE 1 SEED MIXTURE.
- GRADING AND CONSTRUCTION OF IMPROVEMENTS AND BUILDINGS IN THE FLOOD HAZARD AREAS SHALL COMPLY WITH CHAPTER 170, FLOOD PLAIN MANAGEMENT OF THE WAUKEE CITY CODE.

LOTS 22-24 & 26 SHALL HAVE THEIR FLOOD PLAIN DESIGNATION REMOVED THROUGH THE LOMR-F APPROVAL PROCESS WITH FEMA OR WAUKEE CITY CODE CHAPTER 170 SHALL APPLY WHICH STATES "ALL NEW OR SUBSTANTIALLY IMPROVED RESIDENTIAL STRUCTURES SHALL HAVE THE LOWEST FLOOR, INCLUDING BASEMENT, ELEVATED A MINIMUM OF ONE FOOT ABOVE THE BASE FLOOD ELEVATION. CONSTRUCTION SHALL BE UPON COMPACTED FILL WHICH SHALL, AT ALL POINTS, BE NO LOWER THAN 1.0 FT. ABOVE THE BASE FLOOD ELEVATION AND EXTEND AT SUCH ELEVATION AT LEAST 18 FEET BEYOND THE LIMITS OF ANY STRUCTURE ERECTED THEREON."

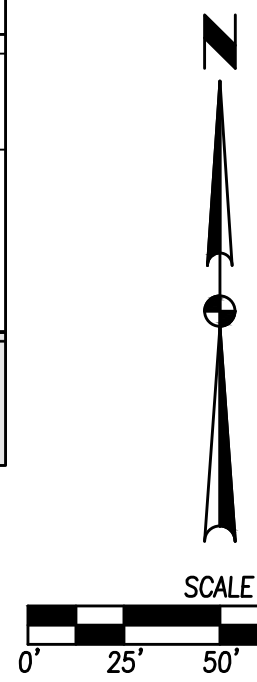
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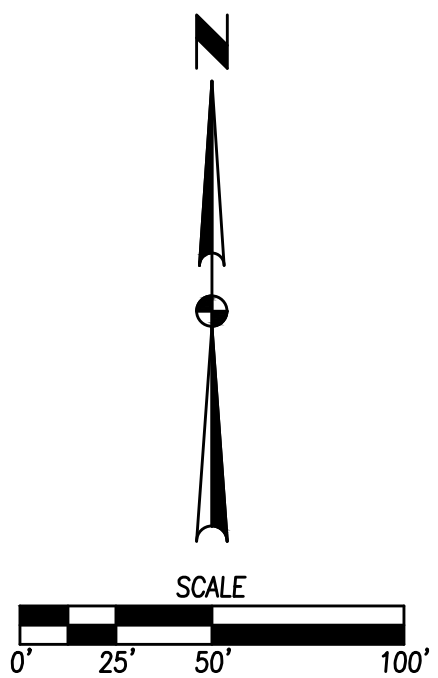
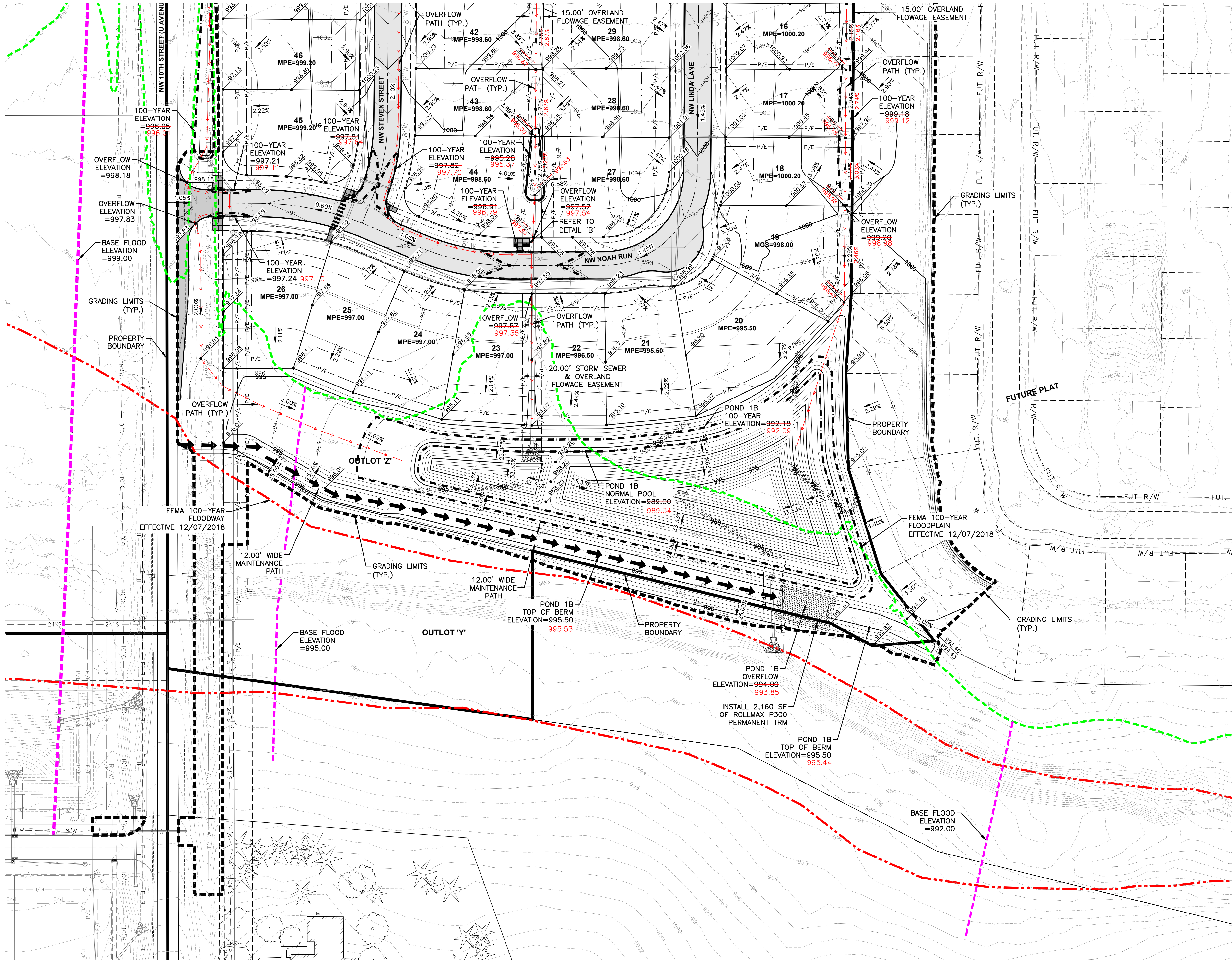
DETAIL 'A'
SCALE: 1"=10'



DETAIL 'B'
SCALE: 1"=10'



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DATE: 12/12/2024
PLOTTER: HP DesignJet T1200
PLOTTER: HP DesignJet T1200
DRAWN BY: JMM
CHECKED BY: JMM
DATE: 12/12/2024



PARKSIDE PLAT 1

GRADING PLAN

9/39
2402.122

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

DATE	REVISIONS
12/05/2024	2ND AS-BUILT SUBMITTAL
10/25/2024	1ST AS-BUILT SUBMITTAL
04/26/2024	FINAL SUBMITTAL
04/16/2024	3RD SUBMITTAL
03/29/2024	2ND SUBMITTAL
03/12/2024	1ST SUBMITTAL

ENGINEER: JMM

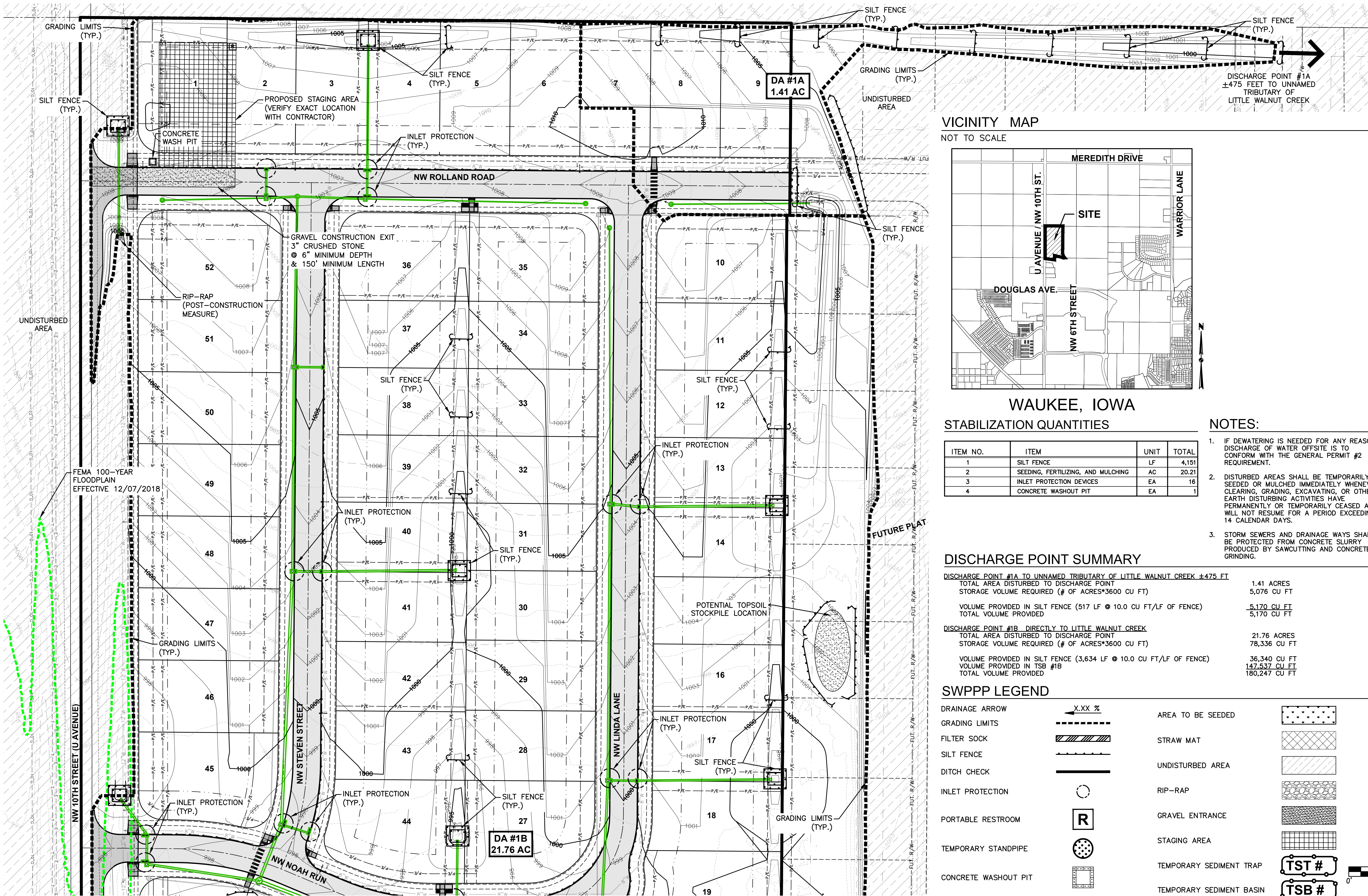
TECH: JDS



WAUKEE, IOWA

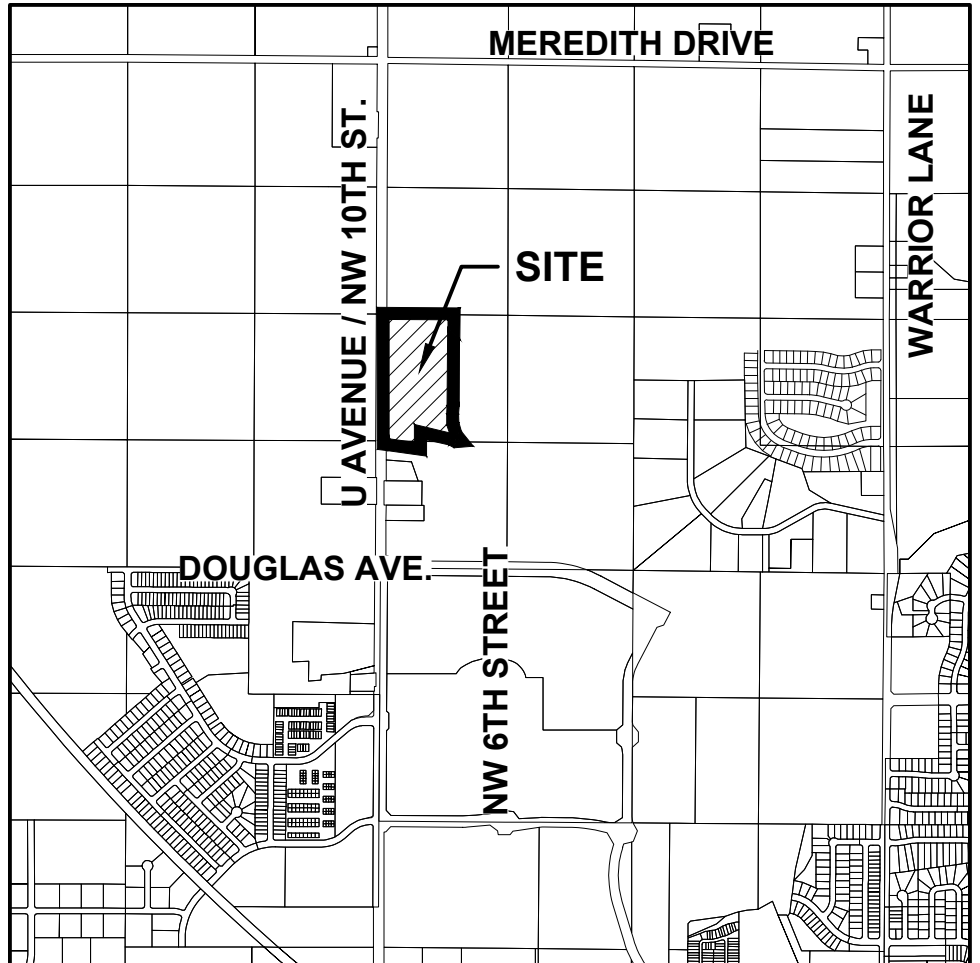
PARKSIDE PLAT 1

EROSION AND SEDIMENT CONTROL PLAN



VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

STABILIZATION QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	4,151
2	SEEDING, FERTILIZING, AND MULCHING	AC	20.21
3	INLET PROTECTION DEVICES	EA	16
4	CONCRETE WASHOUT PIT	EA	1

NOTES:

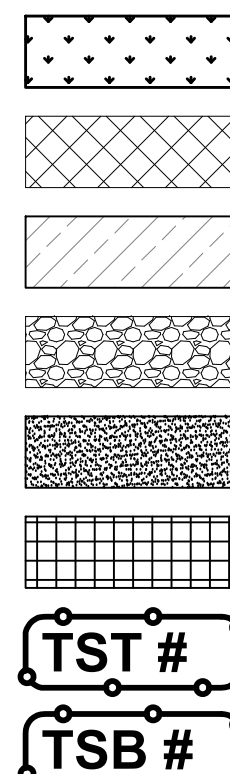
- IF DEWATERING IS NEEDED FOR ANY REASON, DISCHARGE OF WATER OFFSITE IS TO CONFORM WITH THE GENERAL PERMIT #2 REQUIREMENT.
- DISTURBED AREAS SHALL BE TEMPORARILY SEEDED OR MULCHED IMMEDIATELY WHENEVER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY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

DISCHARGE POINT SUMMARY

DISCHARGE POINT #1A TO UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK ±475 FT		
TOTAL AREA DISTURBED TO DISCHARGE POINT	1.41 ACRES	
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	5,076 CU FT	
VOLUME PROVIDED IN SILT FENCE (517 LF @ 10.0 CU FT/LF OF FENCE)	5,170 CU FT	
TOTAL VOLUME PROVIDED	5,170 CU FT	
DISCHARGE POINT #1B DIRECTLY TO LITTLE WALNUT CREEK		
TOTAL AREA DISTURBED TO DISCHARGE POINT	21.76 ACRES	
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	78,336 CU FT	
VOLUME PROVIDED IN SILT FENCE (3,634 LF @ 10.0 CU FT/LF OF FENCE)	36,340 CU FT	
VOLUME PROVIDED IN TSB #1B	147,537 CU FT	
TOTAL VOLUME PROVIDED	180,247 CU FT	

SWPPP LEGEND

DRAINAGE ARROW	X.XX %	AREA TO BE SEEDED
GRADING LIMITS	---	STRAW MAT
FILTER SOCK		UNDISTURBED AREA
SILT FENCE	---	RIP-RAP
DITCH CHECK	---	GRAVEL ENTRANCE
INLET PROTECTION	○	STAGING AREA
PORTABLE RESTROOM	R	TEMPORARY SEDIMENT TRAP
TEMPORARY STANDPIPE	●	TEMPORARY SEDIMENT BASIN
CONCRETE WASHOUT PIT	□	



DATE
12/05/2024
2ND AS-BUILT SUBMITTAL
10/25/2024
1ST AS-BUILT SUBMITTAL
04/26/2024
FINAL SUBMITTAL
04/16/2024
3RD SUBMITTAL
03/29/2024
2ND SUBMITTAL
03/12/2024
1ST SUBMITTAL

REVISIONS

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

TECH: JDS
ENGINEER: JMM

10
39

2402.122

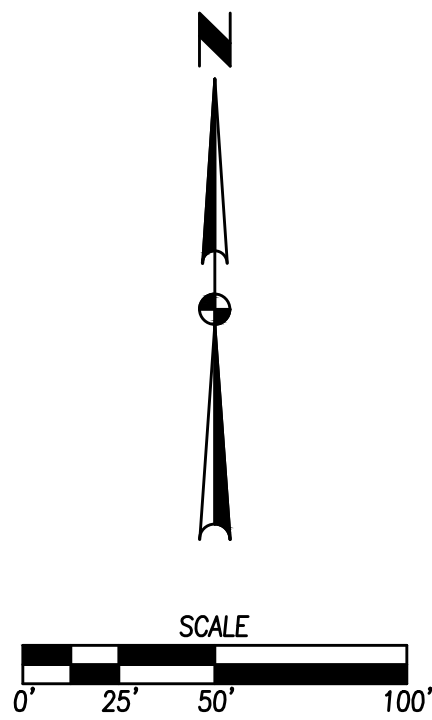
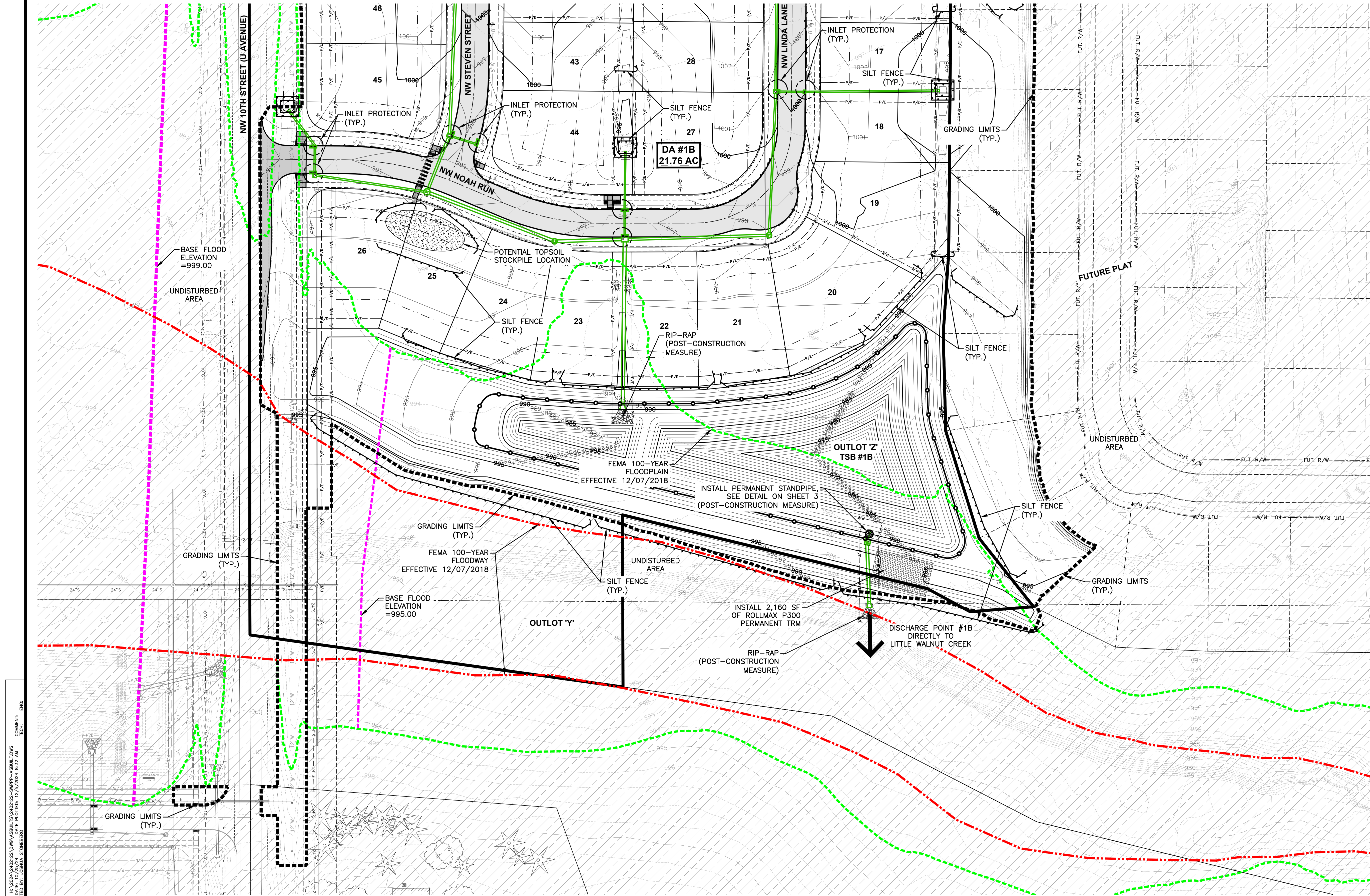
PARKSIDE PLAT 1

EROSION AND SEDIMENT CONTROL PLAN

WAUKEE, IOWA

CIVIL DESIGN ADVANTAGE

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PLOT: 11/39
PLOT: 11/39
PLOT: 11/39



11

39

2402.122

EA

CIVIL DESIGN ADVANTAGE

WAUKEE, IOWA

PARKSIDE PLAT 1

EROSION AND SEDIMENT CONTROL PLAN

11/39

2402.122

EA

12/05/2024

10/25/2024

04/26/2024

04/16/2024

03/29/2024

03/12/2024

2ND AS-BUILT SUBMITTAL

1ST AS-BUILT SUBMITTAL

FINAL SUBMITTAL

3RD SUBMITTAL

2ND SUBMITTAL

1ST SUBMITTAL

REVISIONS

2ND AS-BUILT SUBMITTAL

1ST AS-BUILT SUBMITTAL

FINAL SUBMITTAL

3RD SUBMITTAL

2ND SUBMITTAL

1ST SUBMITTAL

4121 NW URBANDALE DRIVE

URBANDALE, IA 50322

PHONE: (515) 369-4400

TECH: JDS

ENGINEER: JMM

12/05/2024	2ND AS-BUILT SUBMITTAL
10/25/2024	1ST AS-BUILT SUBMITTAL
04/26/2024	FINAL SUBMITTAL
04/16/2024	3RD SUBMITTAL
03/29/2024	2ND SUBMITTAL
03/12/2024	1ST SUBMITTAL

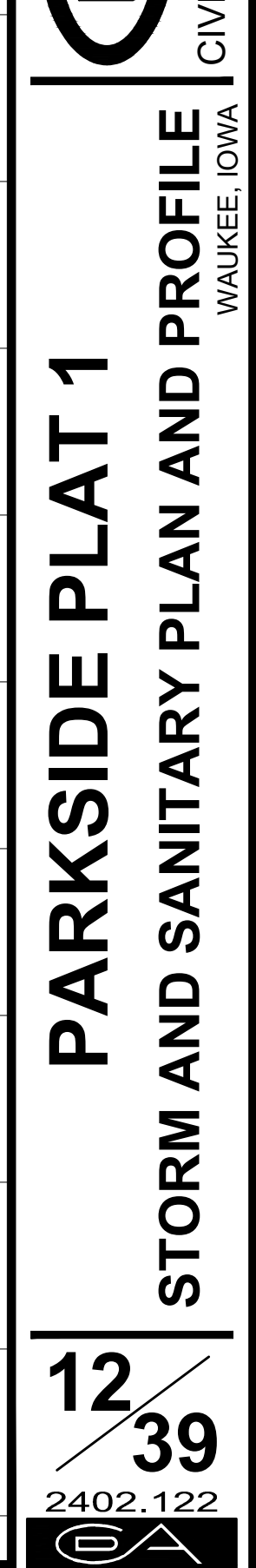
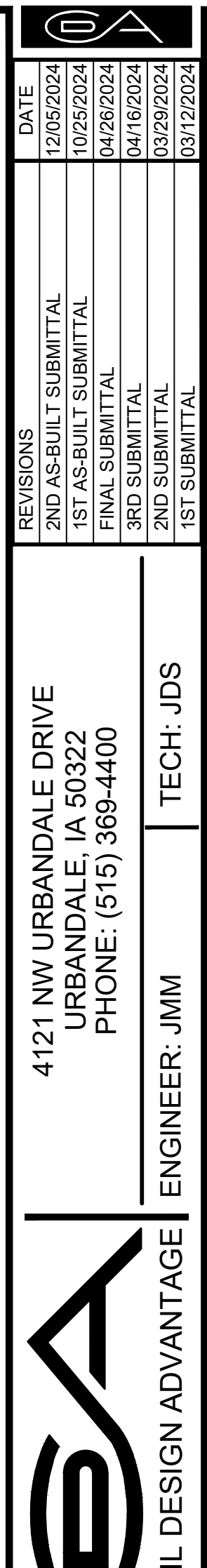
4121 NW URBANDALE DRIVE

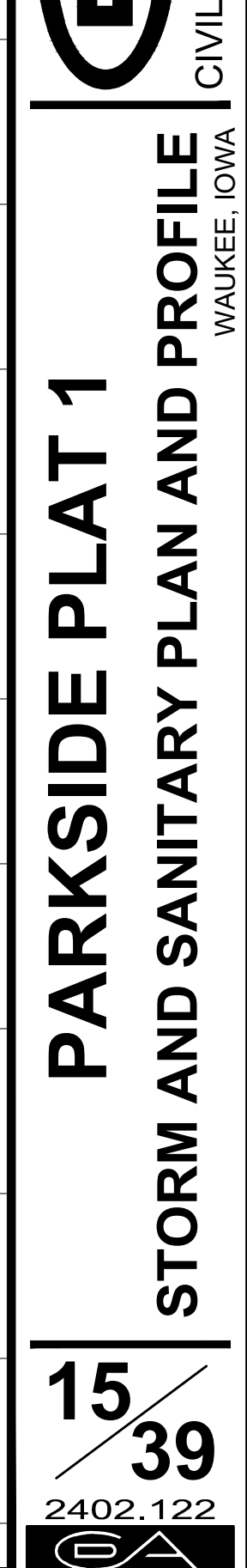
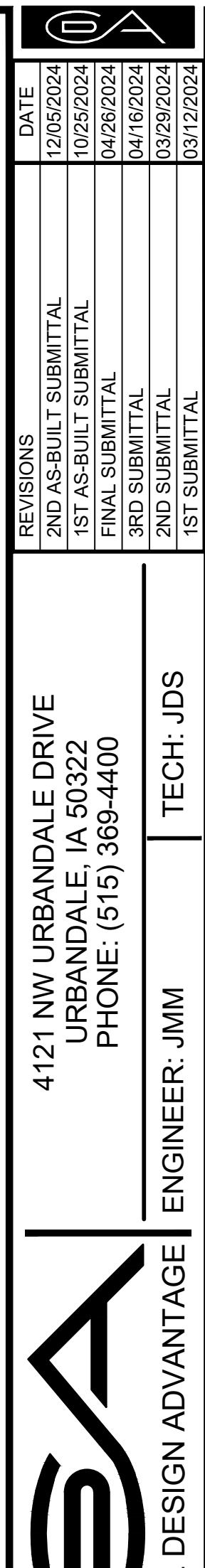
URBANDALE, IA 50322

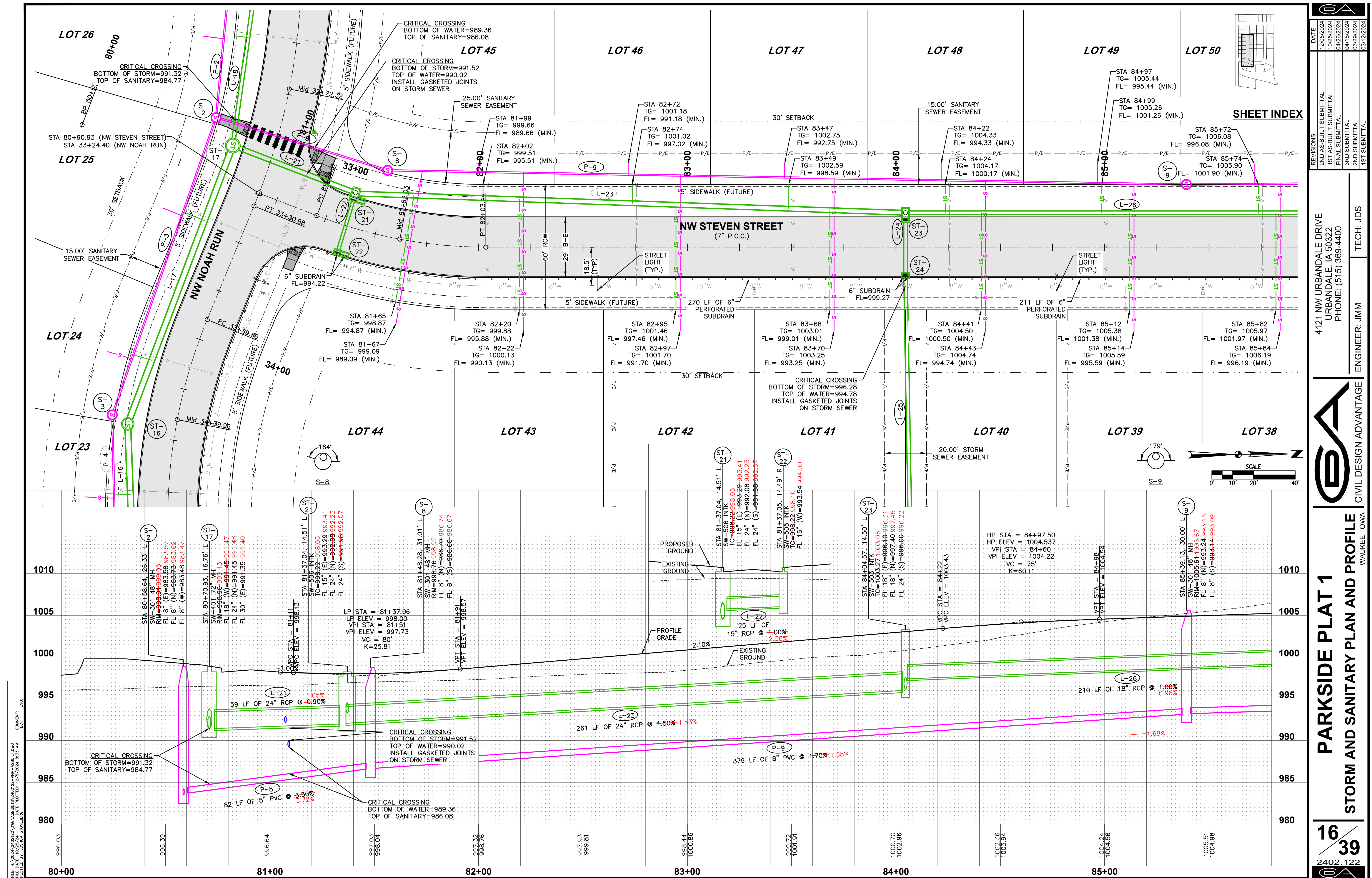
PHONE: (515) 369-4400

TECH: JDS

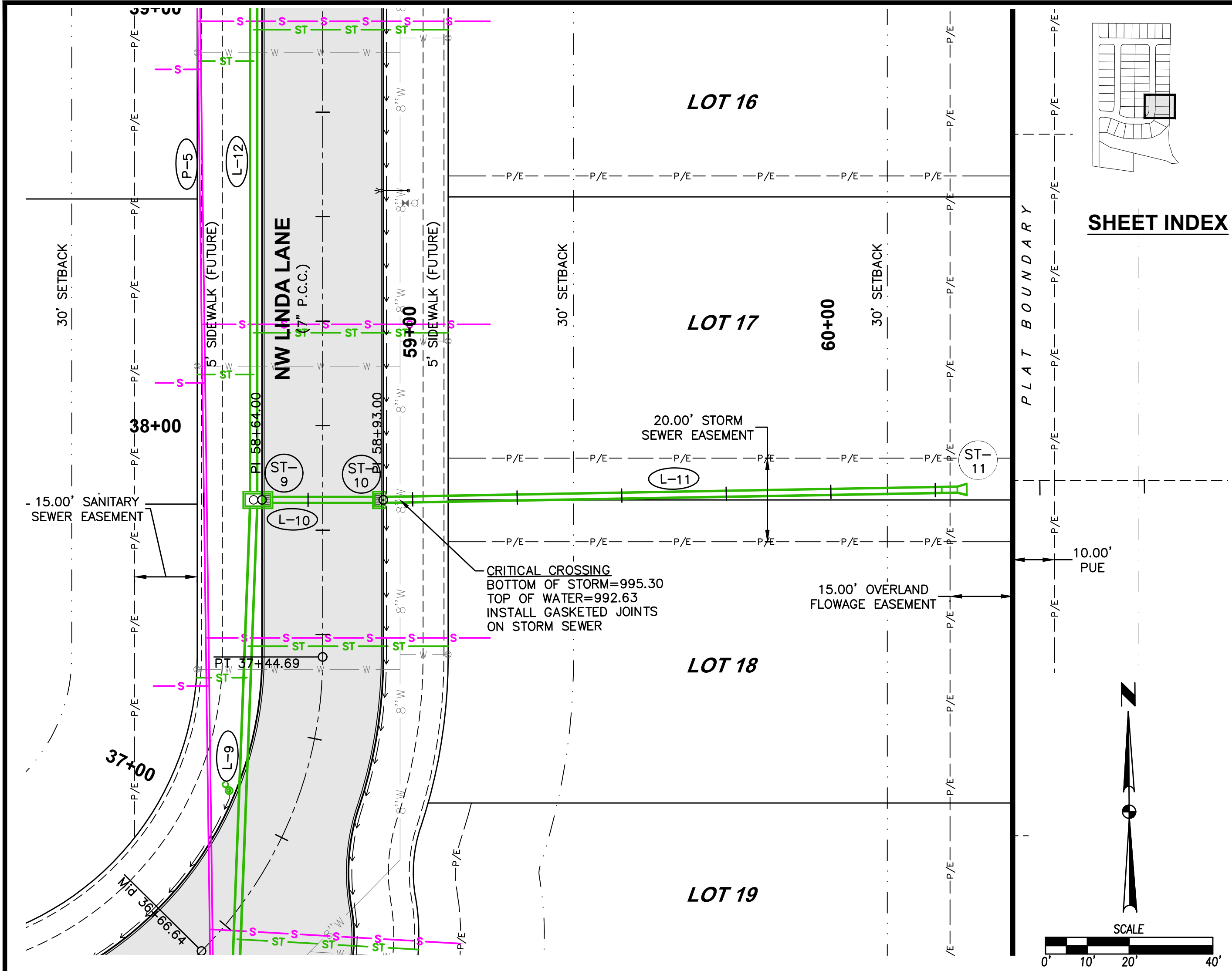
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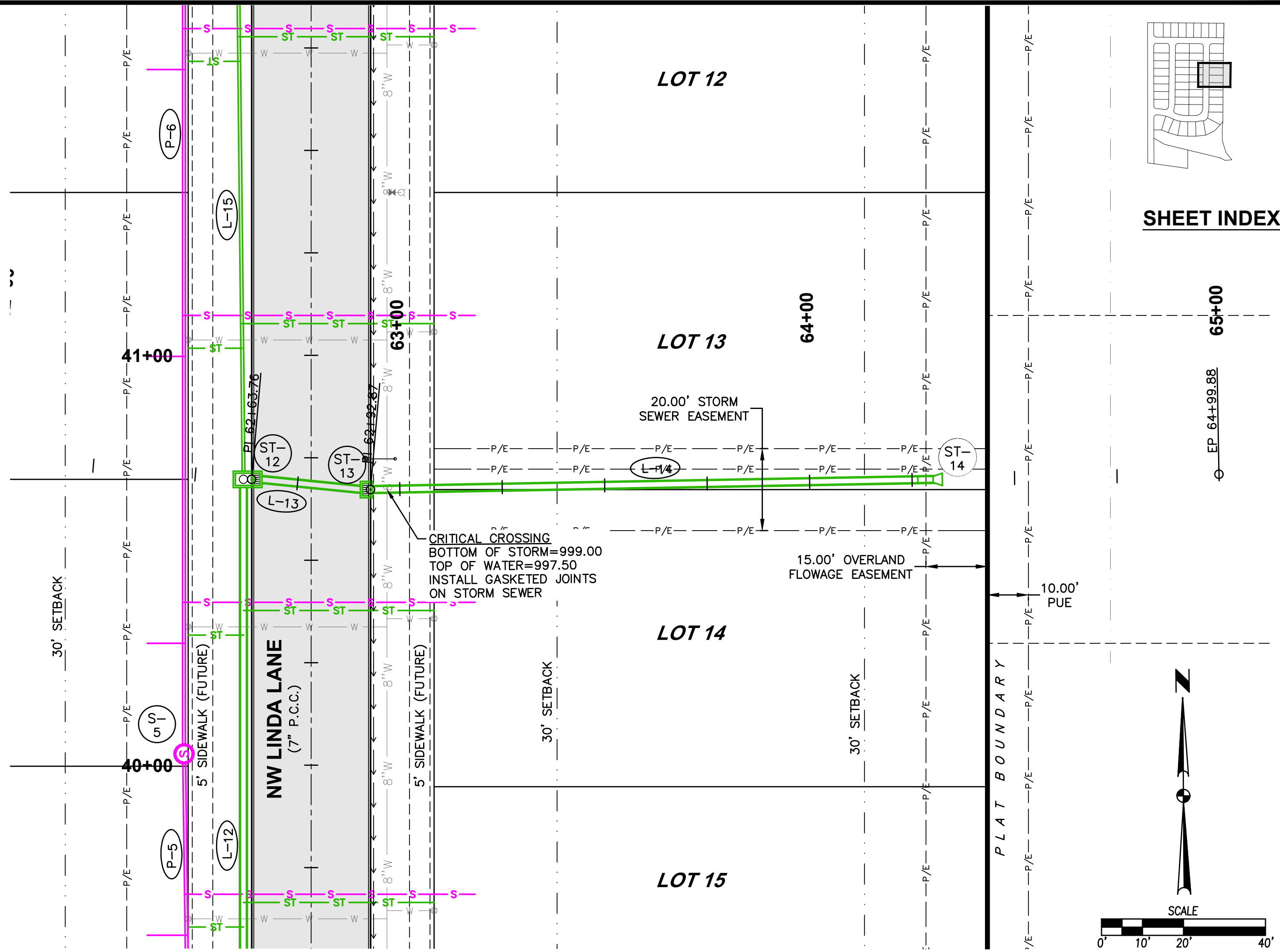
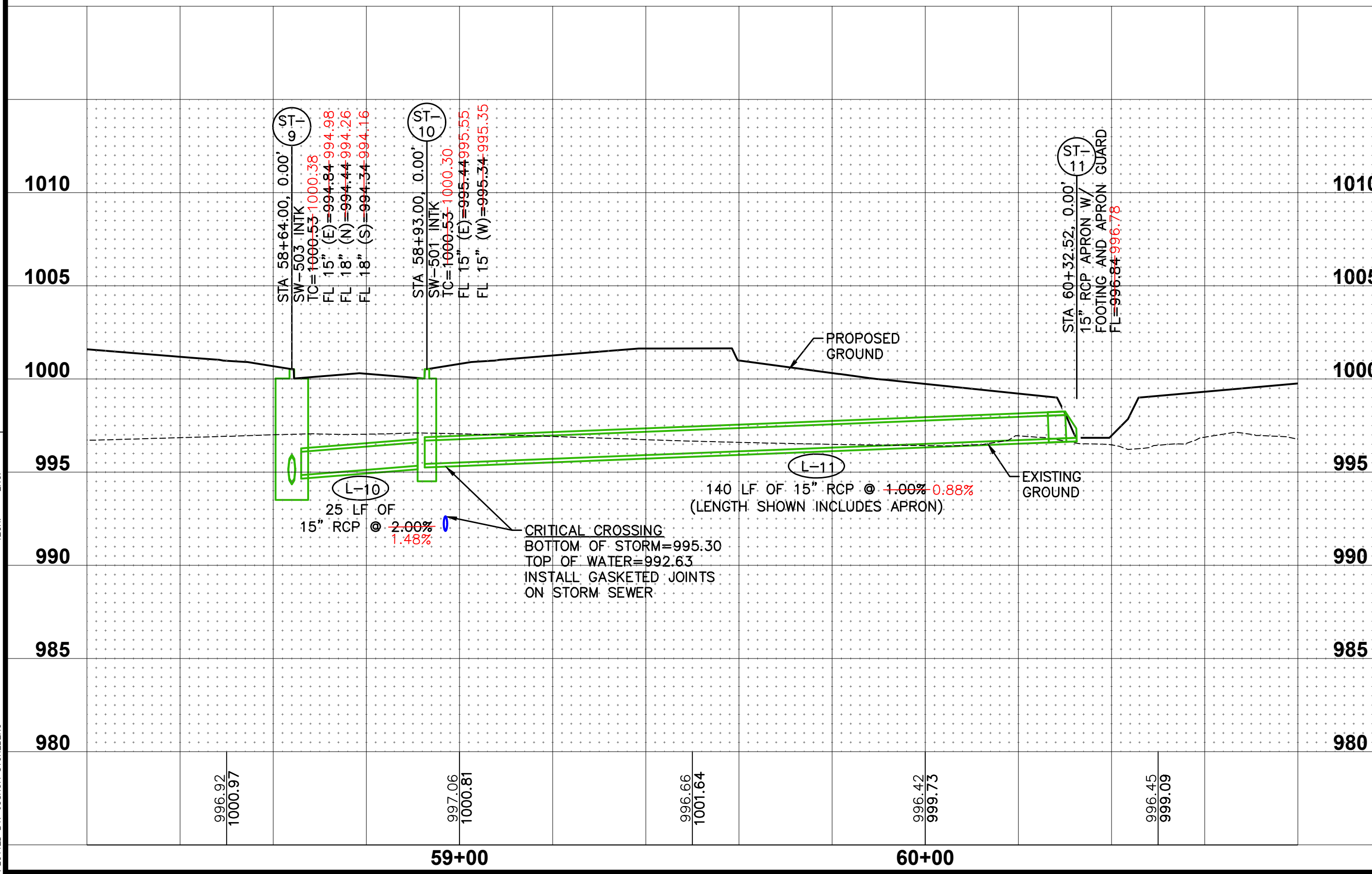




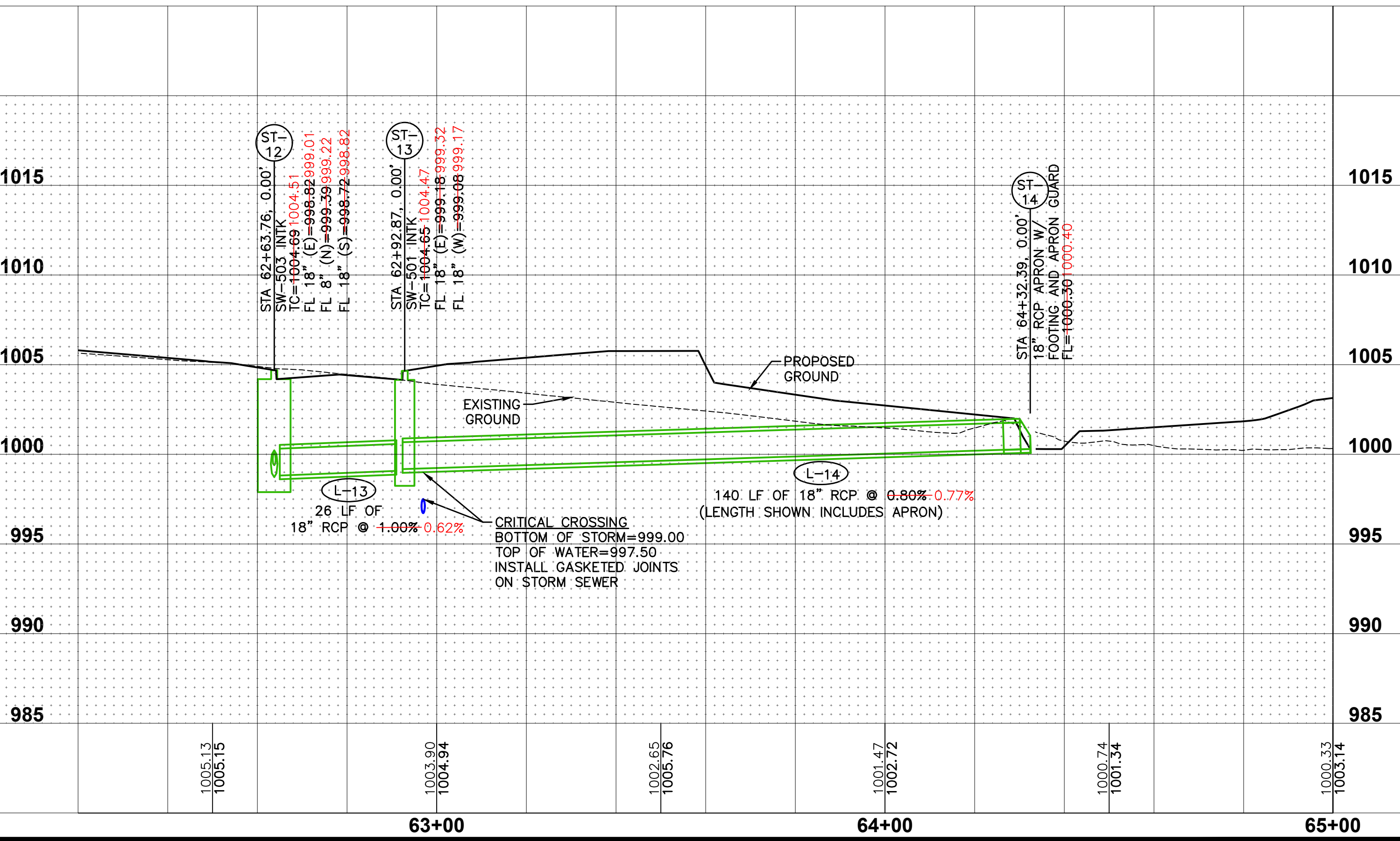
PARKSIDE PLAT 1			REVISIONS	DATE
		CIVIL DESIGN ADVANTAGE WAUKEE, IOWA 4121 NW URBANDALE DRIVE URBANDALE, IA 50322 PHONE: (515) 369-4400	2ND AS-BUILT SUBMITTAL	12/05/2024
			3RD AS-BUILT SUBMITTAL	10/25/2024
			FINAL SUBMITTAL	04/25/2024
			3RD SUBMITTAL	04/16/2024
			2ND SUBMITTAL	03/29/2024
			1ST SUBMITTAL	03/12/2024



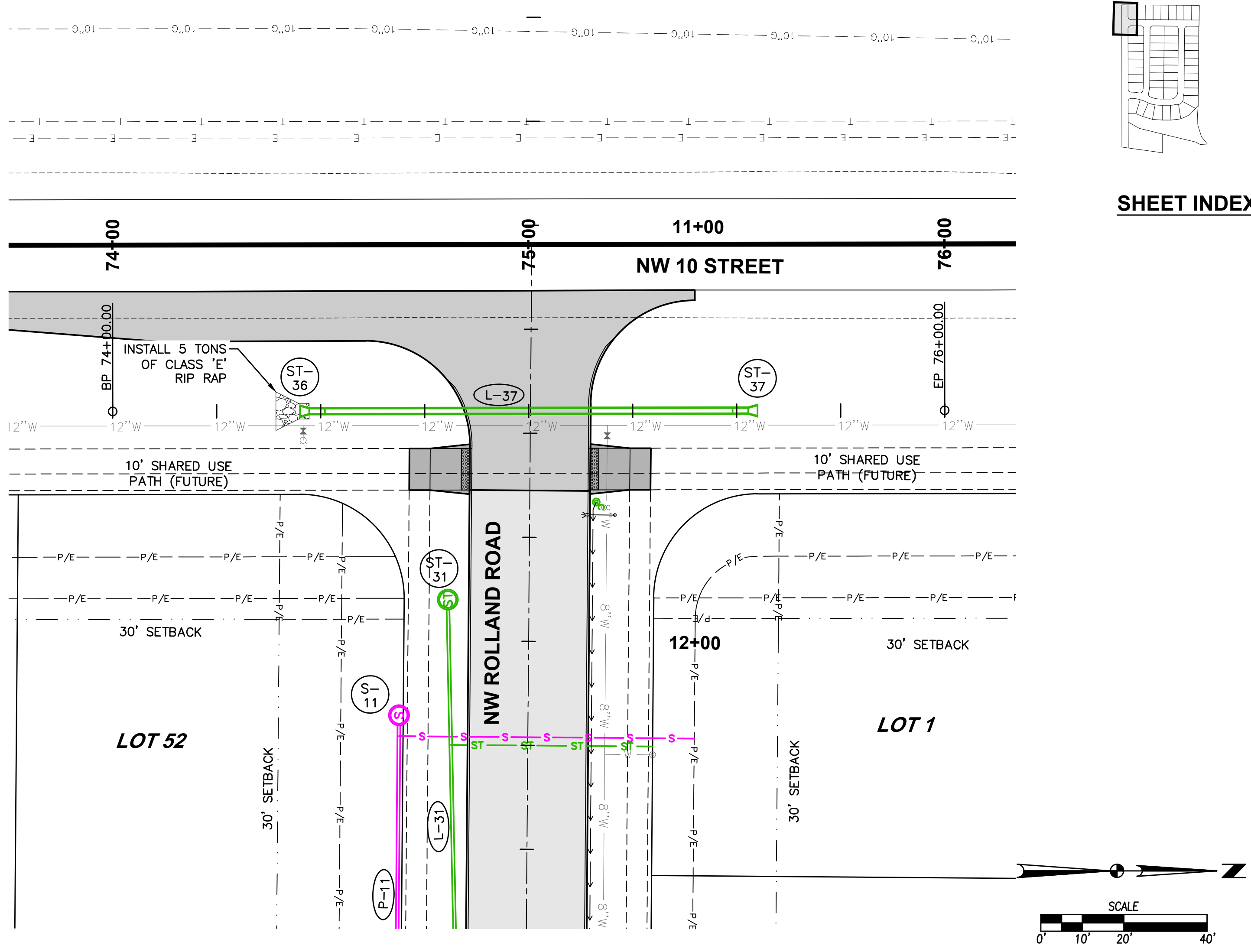
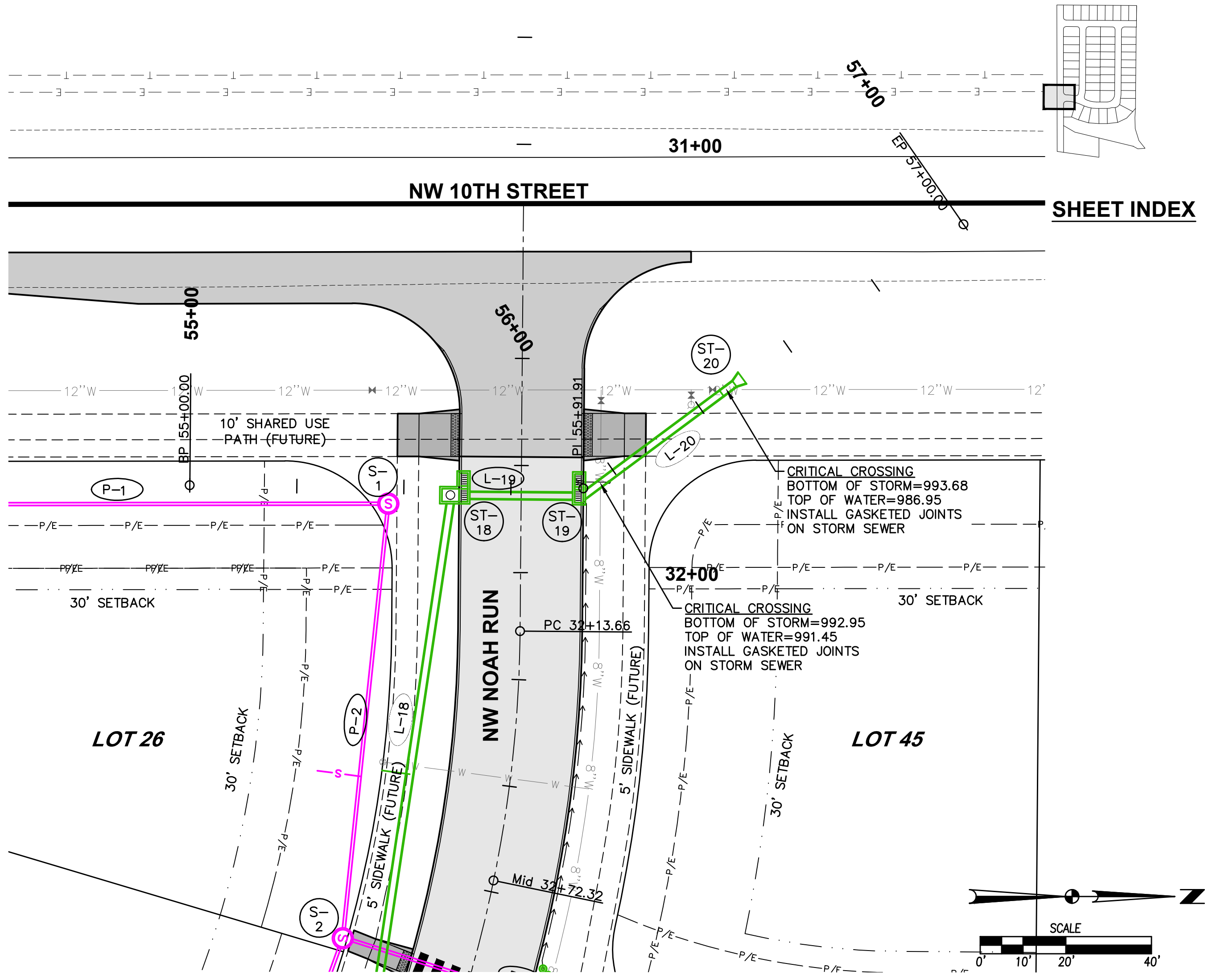
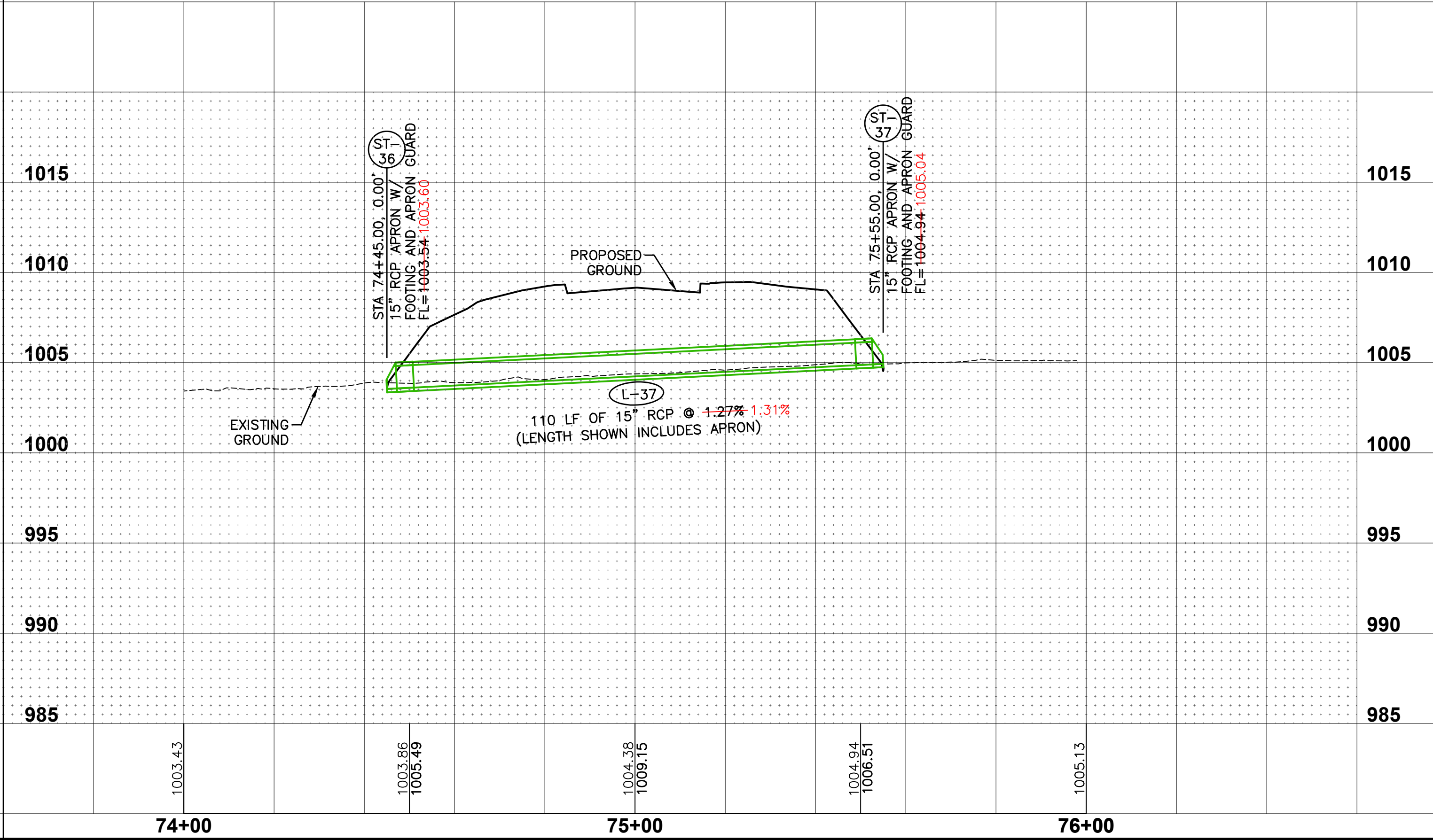
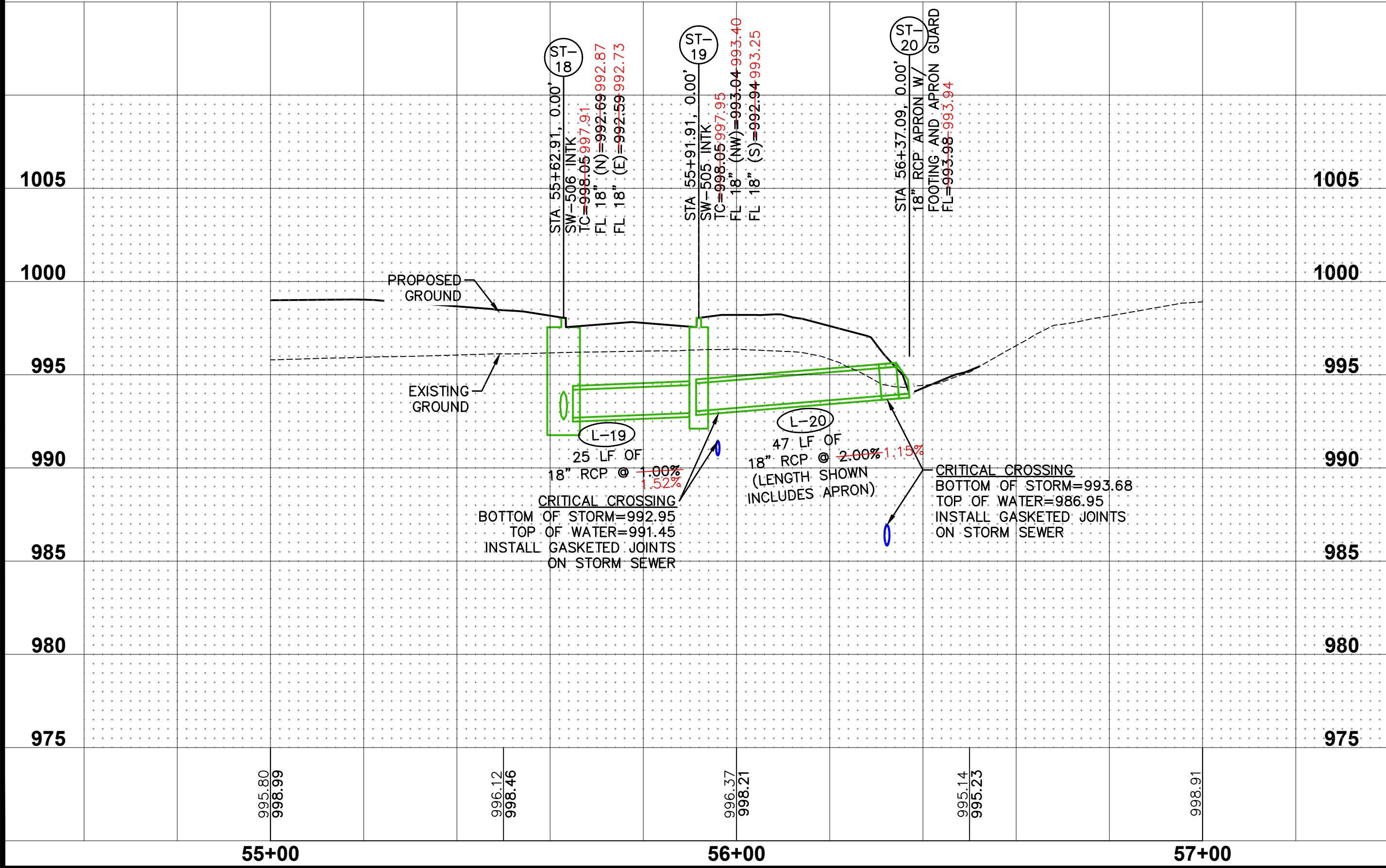
SHEET INDEX



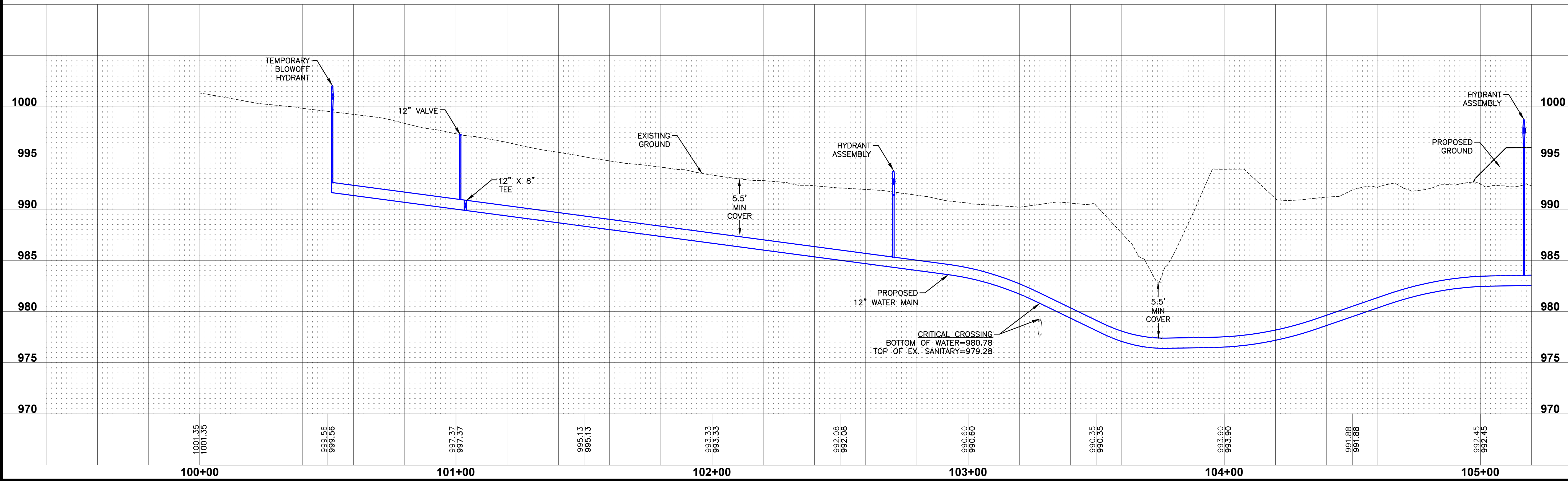
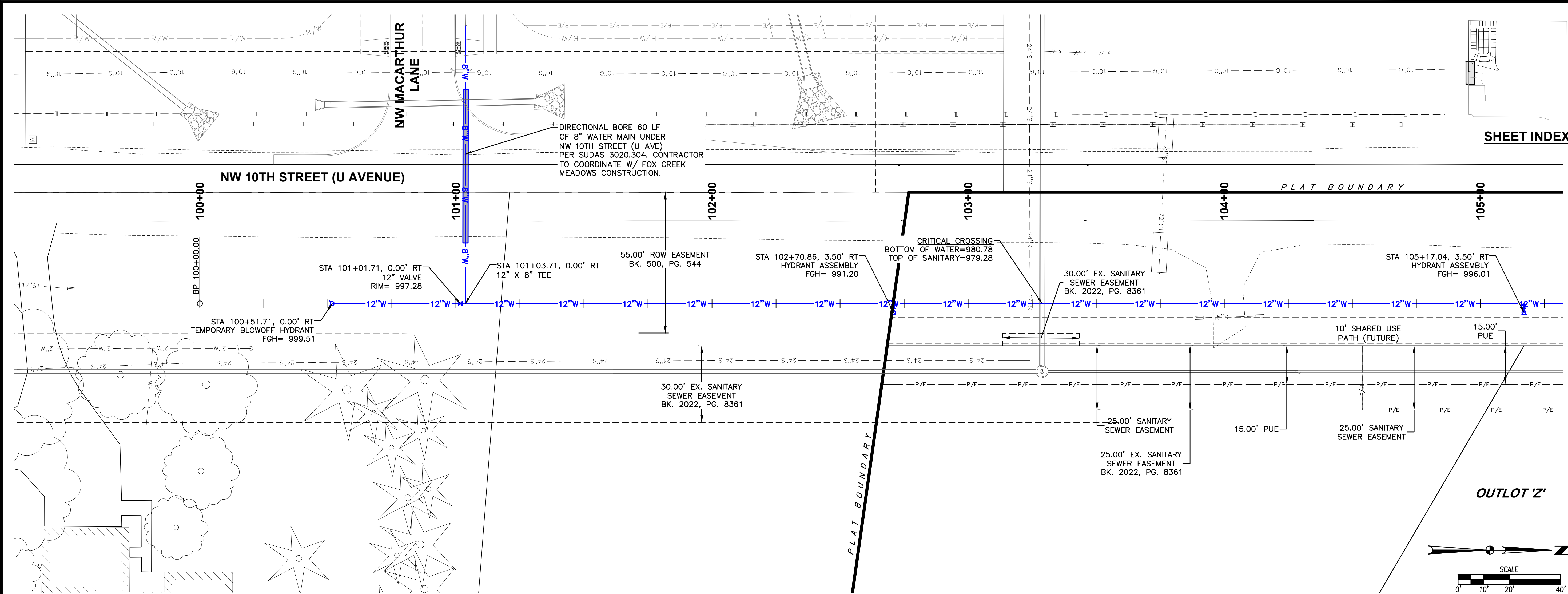
SHEET INDEX



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COMMENTS: STORM SEWER



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PLOTTER: HP DesignJet T1200
PLOT: 12/5/2024 8:34 AM
PLOTTER: HP DesignJet T1200



DATE	
12/05/2024	2ND AS-BUILT SUBMITTAL
10/25/2024	1ST AS-BUILT SUBMITTAL
04/26/2024	FINAL SUBMITTAL
04/16/2024	3RD SUBMITTAL
03/29/2024	2ND SUBMITTAL
03/12/2024	1ST SUBMITTAL

REVISIONS	
12/05/2024	2ND AS-BUILT SUBMITTAL
10/25/2024	1ST AS-BUILT SUBMITTAL
04/26/2024	FINAL SUBMITTAL
04/16/2024	3RD SUBMITTAL
03/29/2024	2ND SUBMITTAL
03/12/2024	1ST SUBMITTAL

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

TECH: JDS

ENGINEER: JMM

PARKSIDE PLAT 1

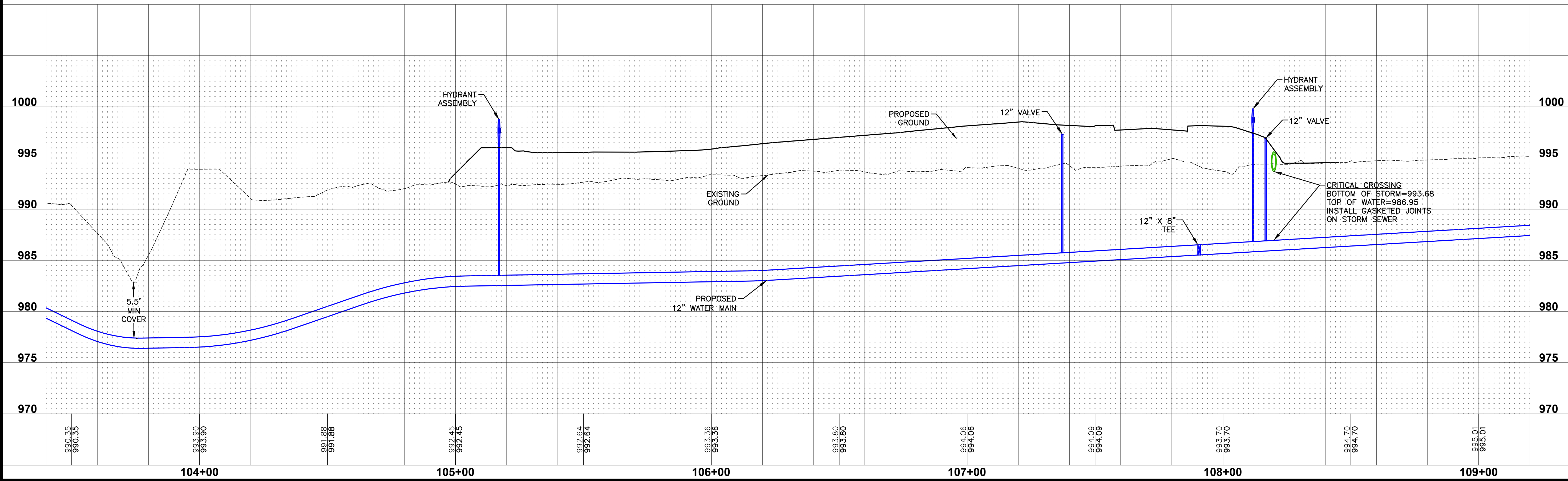
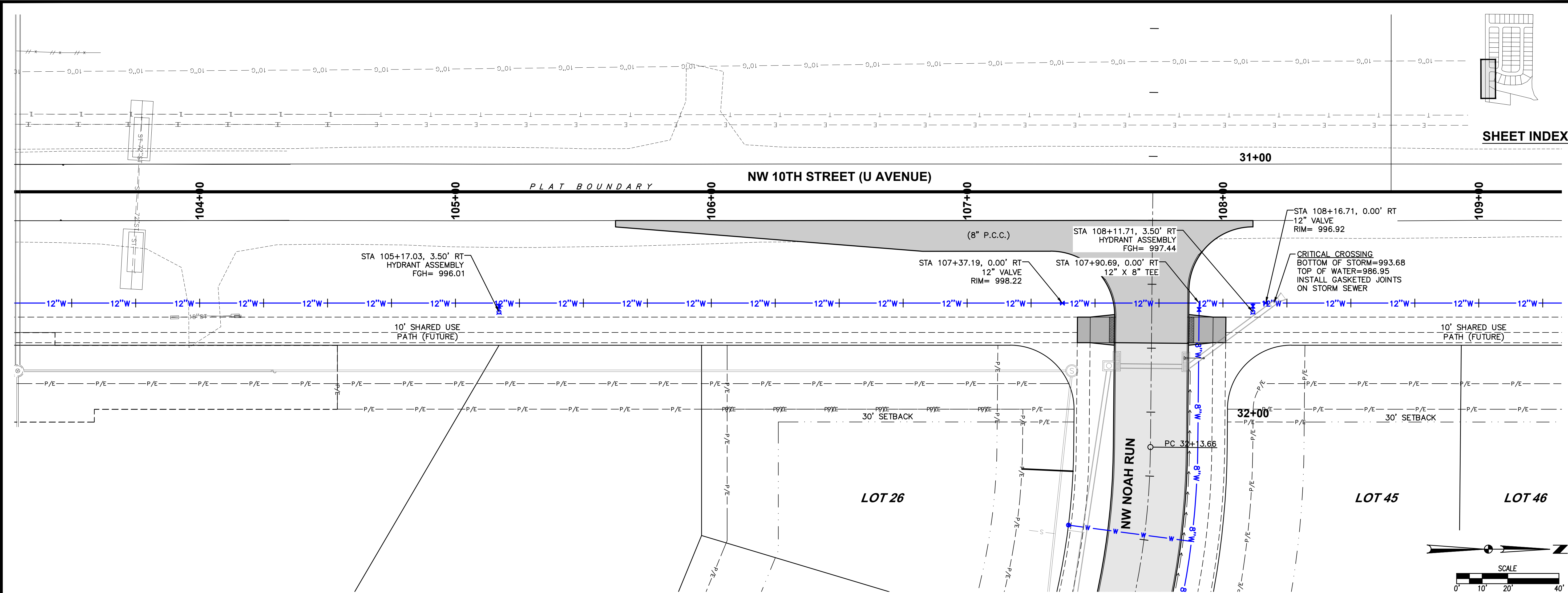
WATERMAIN PLAN AND PROFILE

WAUKEE, IOWA

24/39

2402.122

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PLOTTER: HP DesignJet 5000
PLOT SCALE: 1"=40'
DESIGNED BY: JMM
CHECKED BY: JMM
ENR: JMM



SHEET INDEX

DATE

12/05/2024

2ND AS-BUILT SUBMITTAL

10/25/2024

1ST AS-BUILT SUBMITTAL

04/26/2024

FINAL SUBMITTAL

04/16/2024

3RD SUBMITTAL

03/29/2024

2ND SUBMITTAL

03/12/2024

1ST SUBMITTAL

03/12/2024

REVISIONS

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

TECH: JDS

ENGINEER: JMM

25

39

2402.122

PARKSIDE PLAT 1

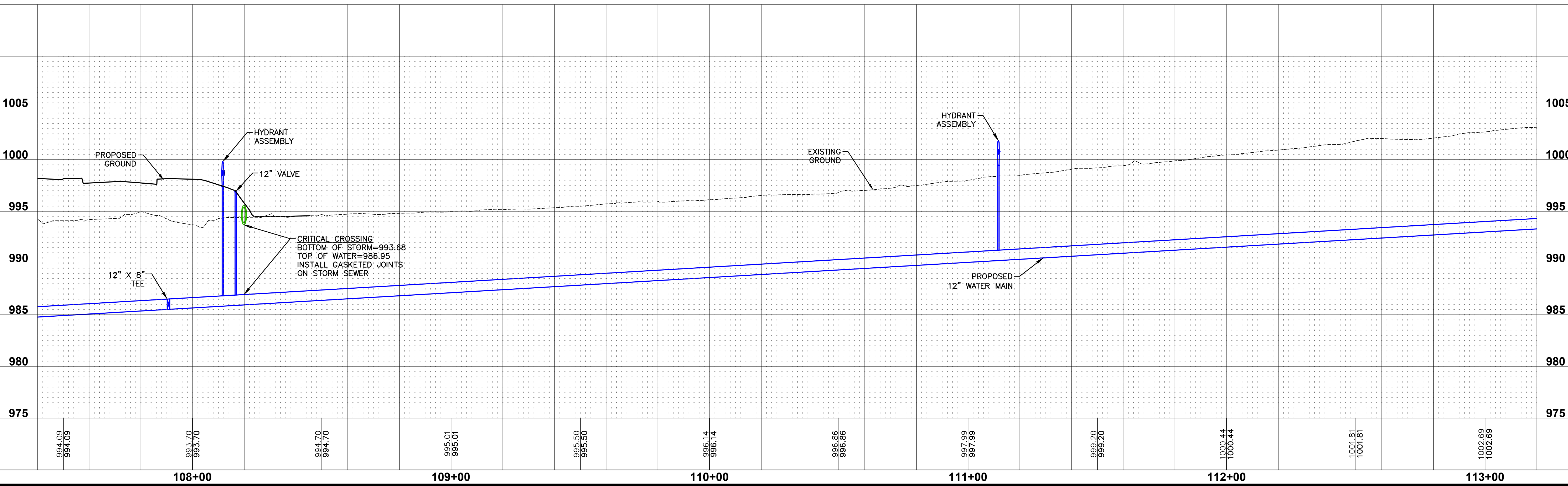
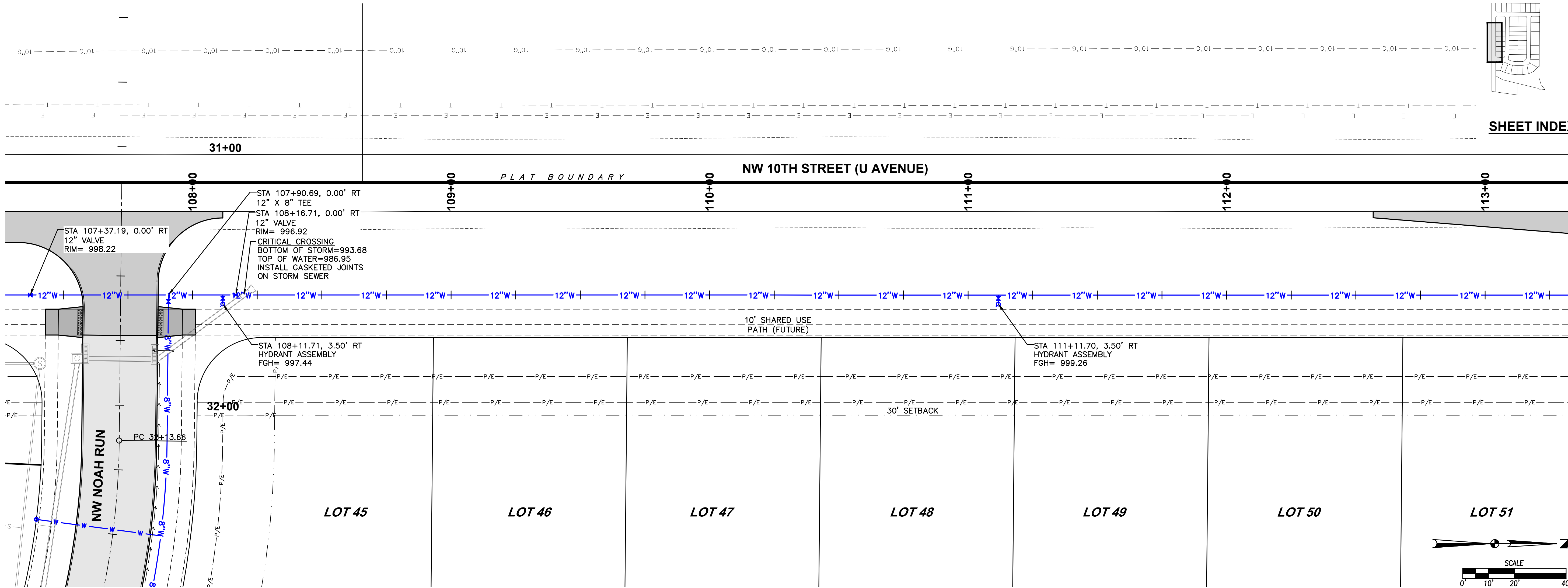
WATERMAIN PLAN AND PROFILE

WAUKEE, IOWA

CIVIL DESIGN ADVANTAGE

EA

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PLOTTER: HP DesignJet T1200
PLOTTER: HP DesignJet T1200



SHEET INDEX

DATE

12/05/2024

2ND AS-BUILT SUBMITTAL

10/25/2024

1ST AS-BUILT SUBMITTAL

04/26/2024

FINAL SUBMITTAL

04/16/2024

3RD SUBMITTAL

03/29/2024

2ND SUBMITTAL

03/12/2024

1ST SUBMITTAL

03/12/2024

REVISIONS

2ND AS-BUILT SUBMITTAL

10/25/2024

1ST AS-BUILT SUBMITTAL

04/26/2024

FINAL SUBMITTAL

04/16/2024

3RD SUBMITTAL

03/29/2024

2ND SUBMITTAL

03/12/2024

1ST SUBMITTAL

03/12/2024

4121 NW URBANDALE DRIVE

URBANDALE, IA 50322

PHONE: (515) 369-4400

TECH: JDS

ENGINEER: JMM

26

39

2402.122

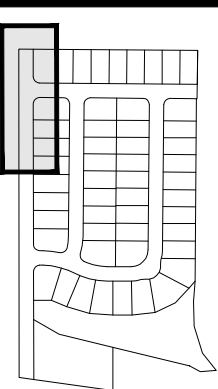
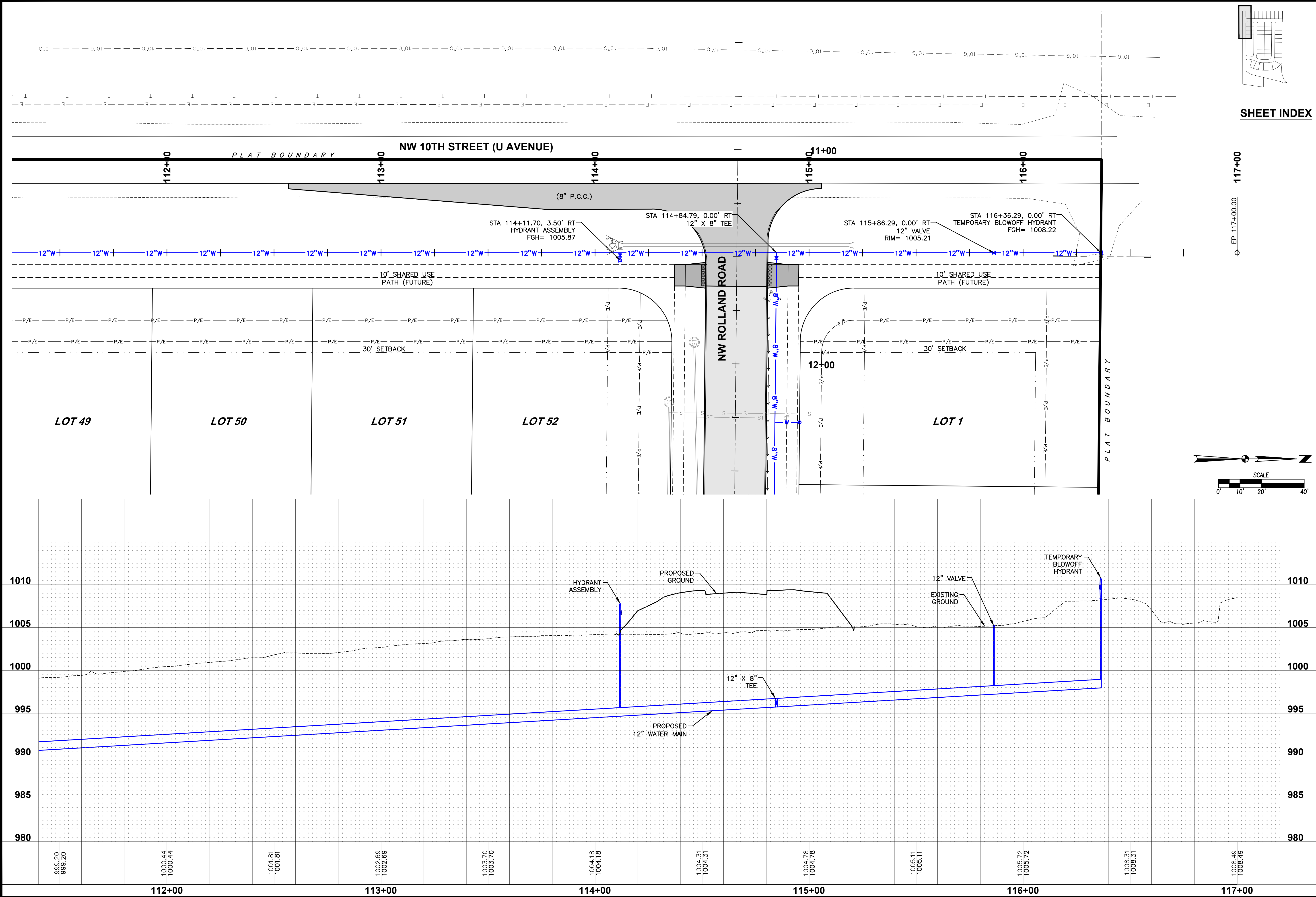
PARKSIDE PLAT 1

WATERMAIN PLAN AND PROFILE

WAUKEE, IOWA

CIVIL DESIGN ADVANTAGE

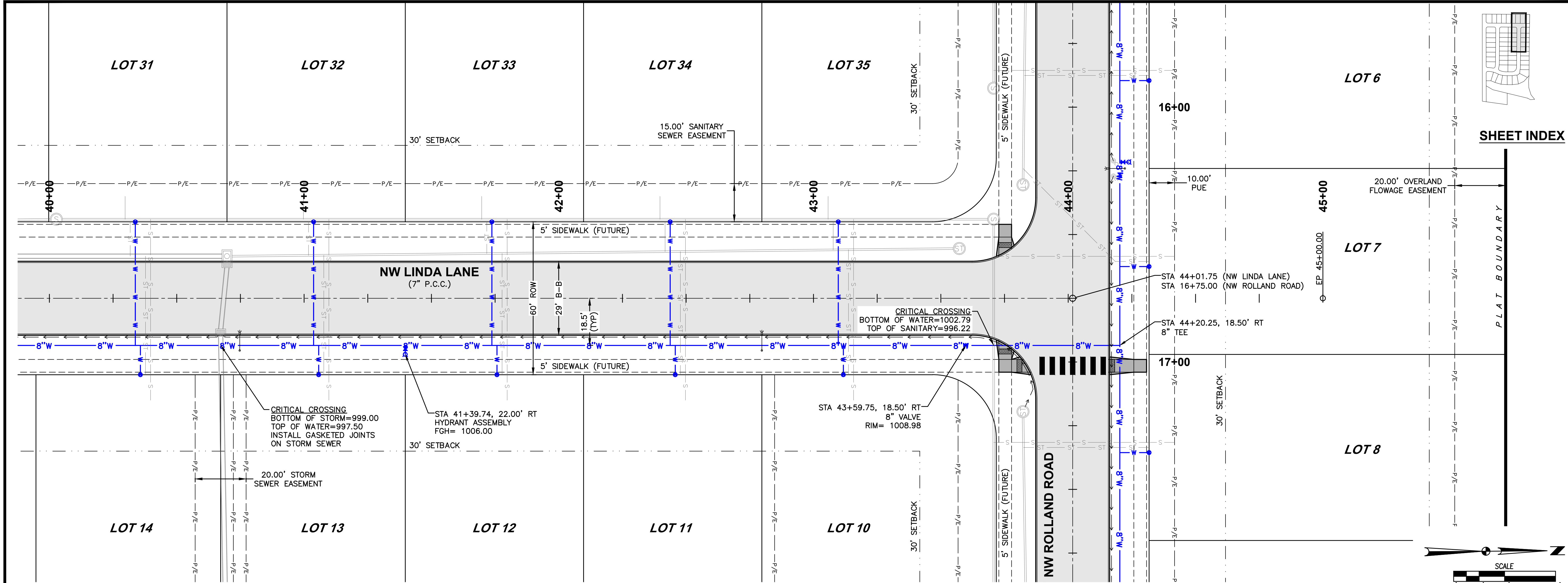
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PLOT BY: JMM, JDS, STONEBERG, ENS



SHEET INDEX

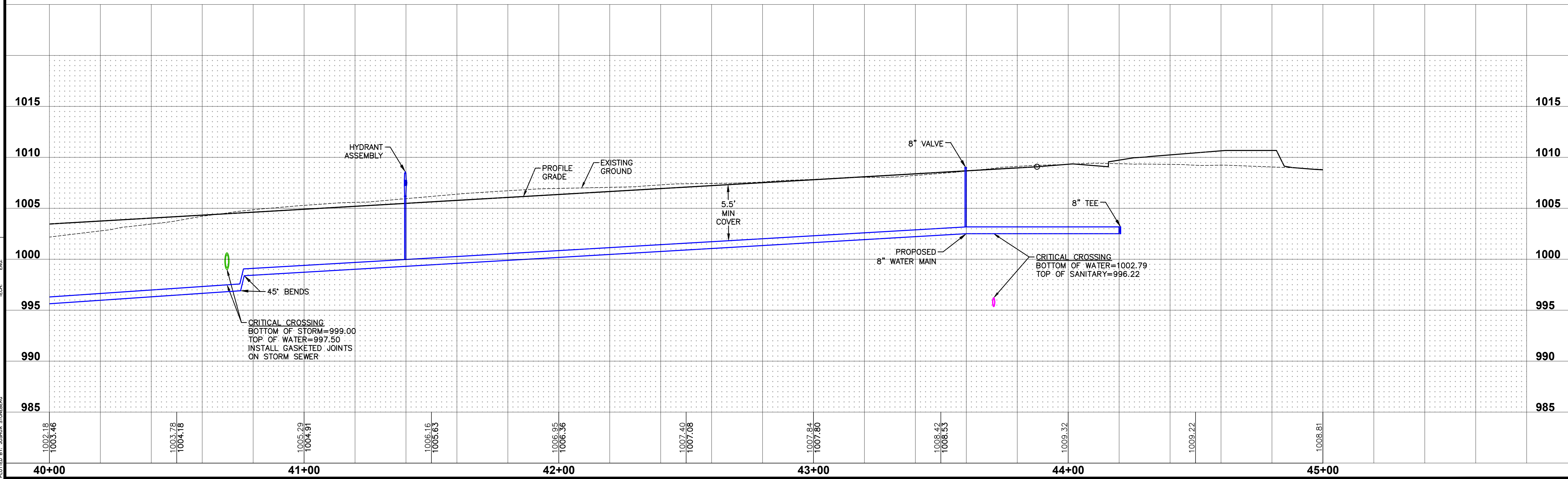
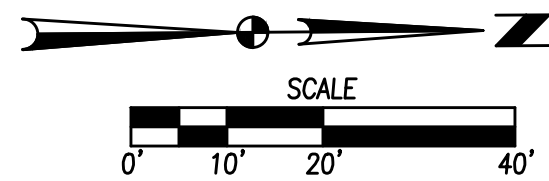
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	2ND AS-BUILT SUBMITTAL	10/25/2024
	1ST AS-BUILT SUBMITTAL	04/26/2024
	FINAL SUBMITTAL	04/16/2024
	3RD SUBMITTAL	03/29/2024
1ST SUBMITTAL	03/12/2024	
REVISIONS		
4121 NW URBANDALE DRIVE URBANDALE, IA 50322 PHONE: (515) 369-4400		
ENGINEER: JMM		TECH: JDS
PARKSIDE PLAT 1 WATERMAIN PLAN AND PROFILE		
27/39 2402.122		

FILE: H:\2024\240222\DWG\AS-BUILT\TS\240222-PNP-WATER-AS-BUILD.DWG
PLOT DATE: 12/15/2024 8:35 AM
PLOTTER: HP DesignJet 5000
PLOTTER: HP DesignJet 5000



SHEET INDEX

PLAT BOUNDARY



DATE	12/05/2024
2ND AS-BUILT SUBMITTAL	10/25/2024
1ST AS-BUILT SUBMITTAL	04/26/2024
FINAL SUBMITTAL	04/16/2024
3RD SUBMITTAL	03/29/2024
2ND SUBMITTAL	03/12/2024
1ST SUBMITTAL	

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

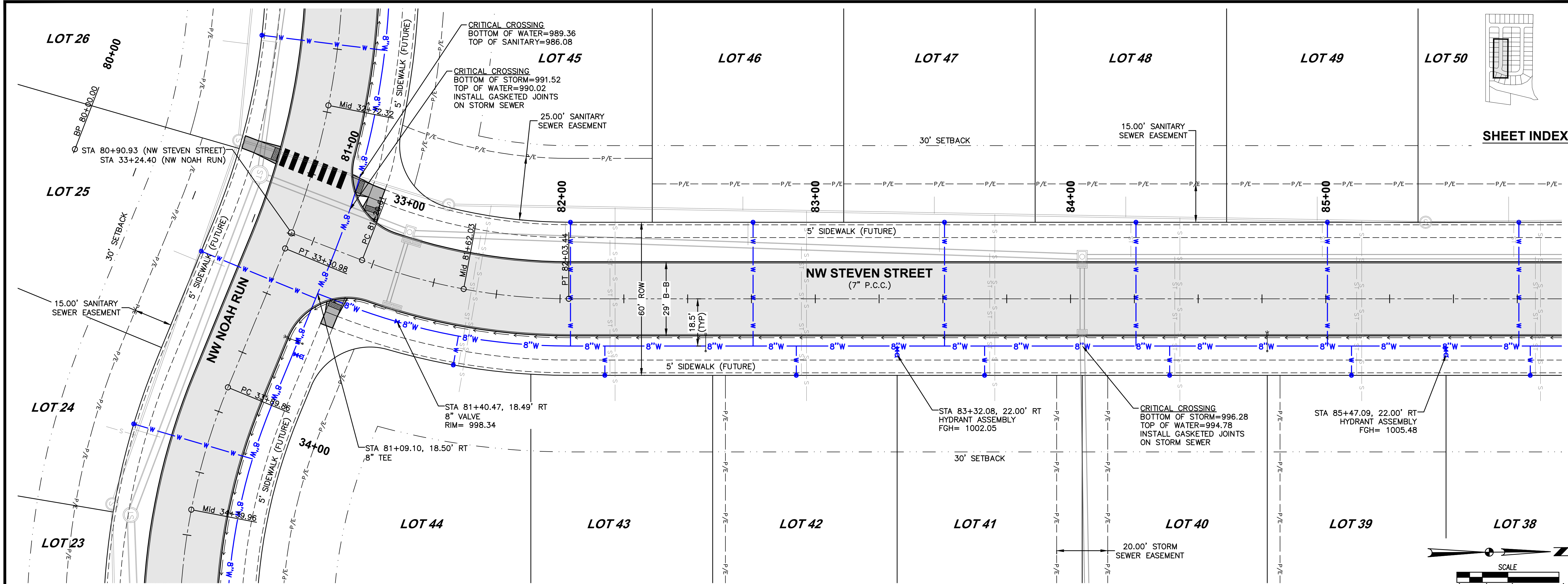
TECH: JDS
ENGINEER: JMM

PARKSIDE PLAT 1
WATERMAIN PLAN AND PROFILE

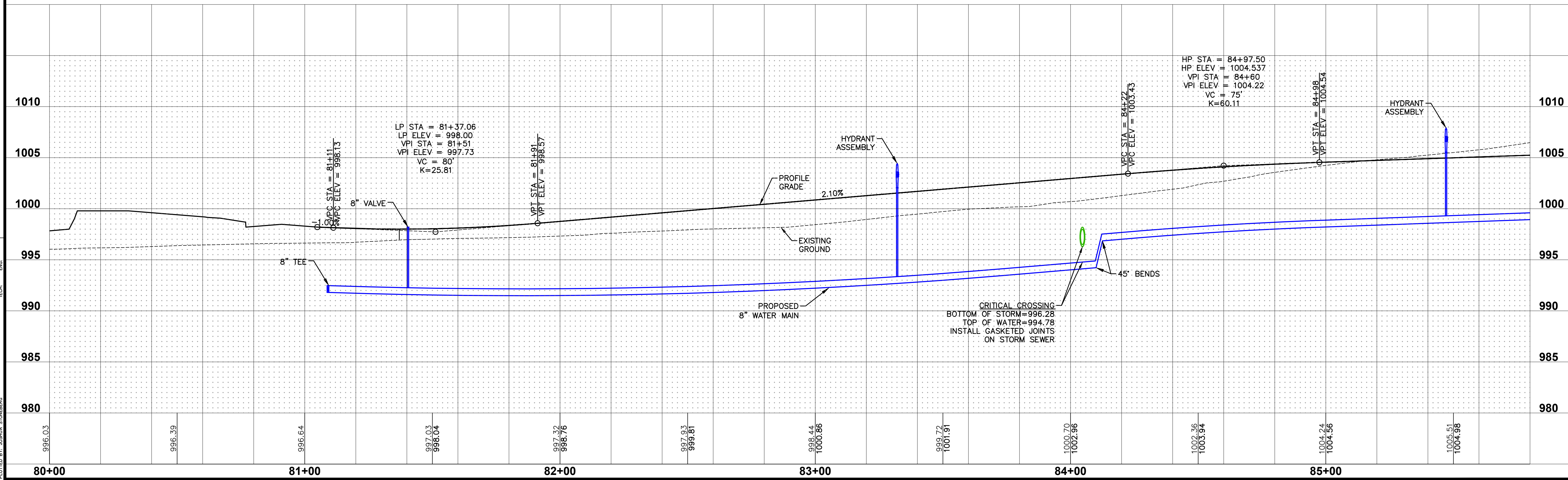
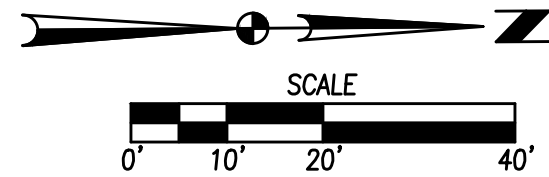
WAUKEE, IOWA

30/39
2402.122

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PLOT DATE: 12/15/2024 8:35 AM
PLOT BY: JMM
PLOT SCALE: 1"=40'



SHEET INDEX



DATE
12/05/2024
2ND AS-BUILT SUBMITTAL
10/25/2024
1ST AS-BUILT SUBMITTAL
04/26/2024
FINAL SUBMITTAL
04/16/2024
3RD SUBMITTAL
03/29/2024
2ND SUBMITTAL
03/12/2024
1ST SUBMITTAL

REVISIONS

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

TECH: JDS

ENGINEER: JMM

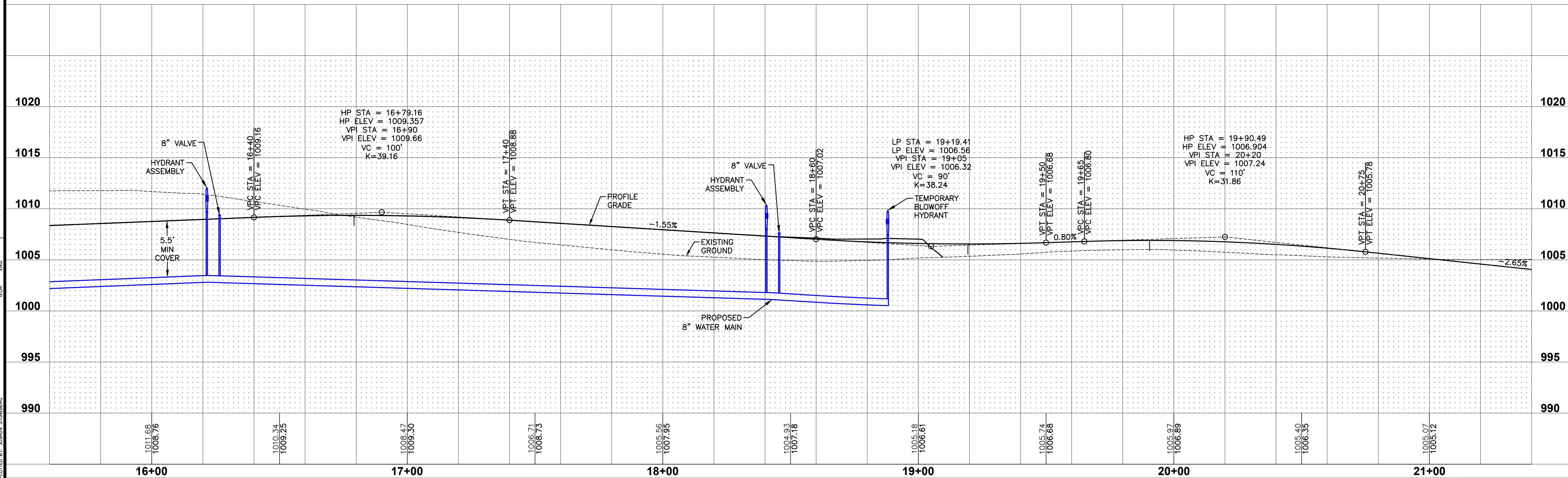
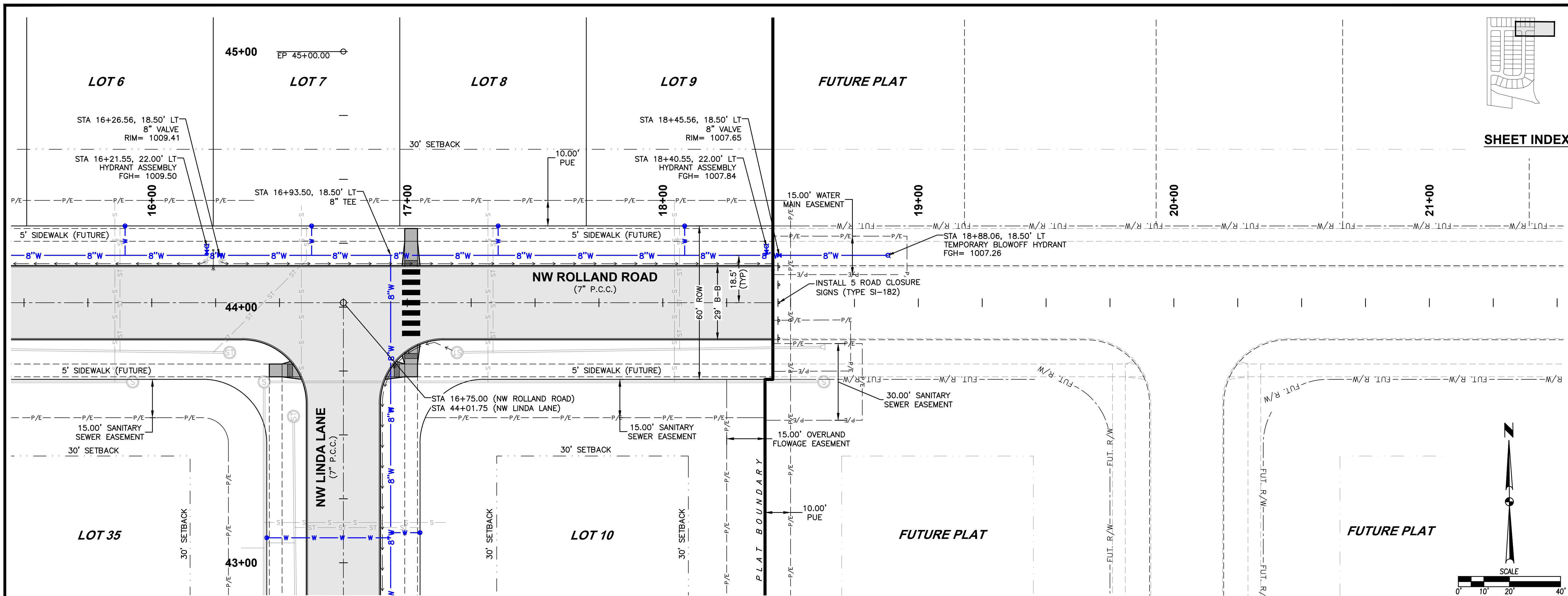
WAUKEE, IOWA

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39

2402.122

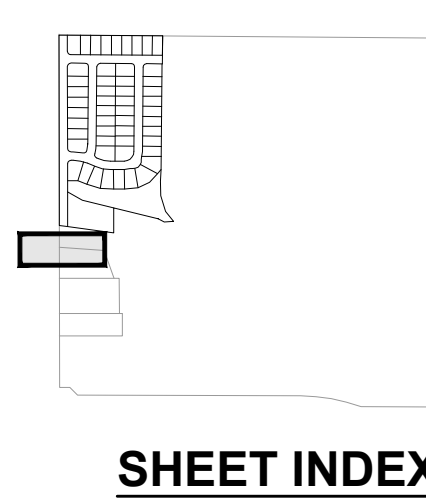
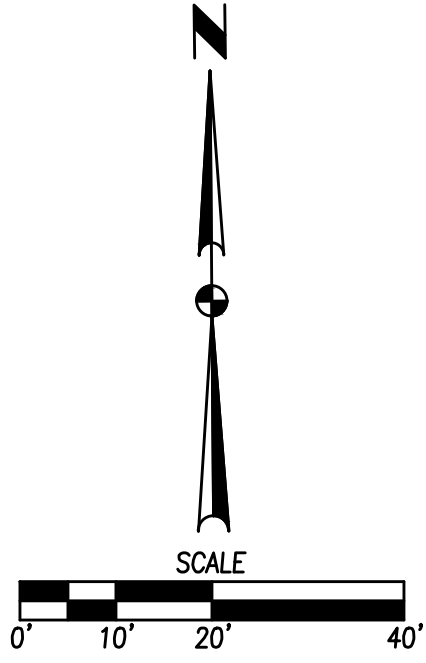
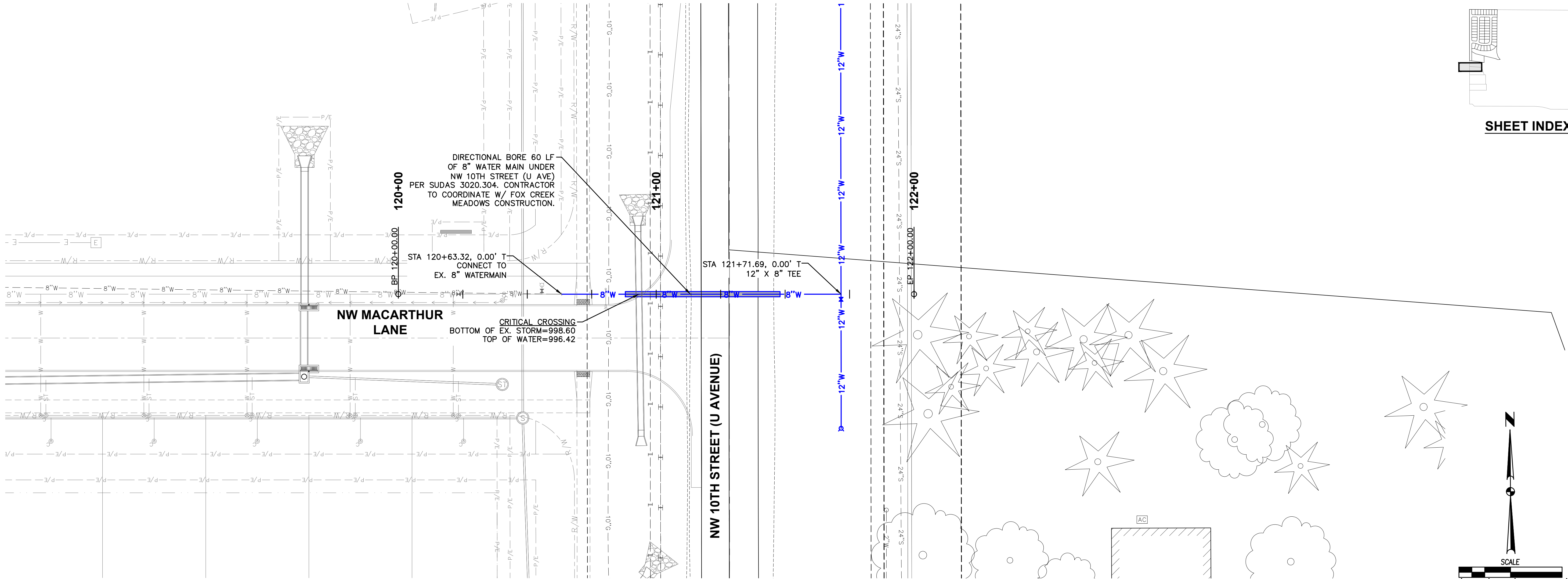
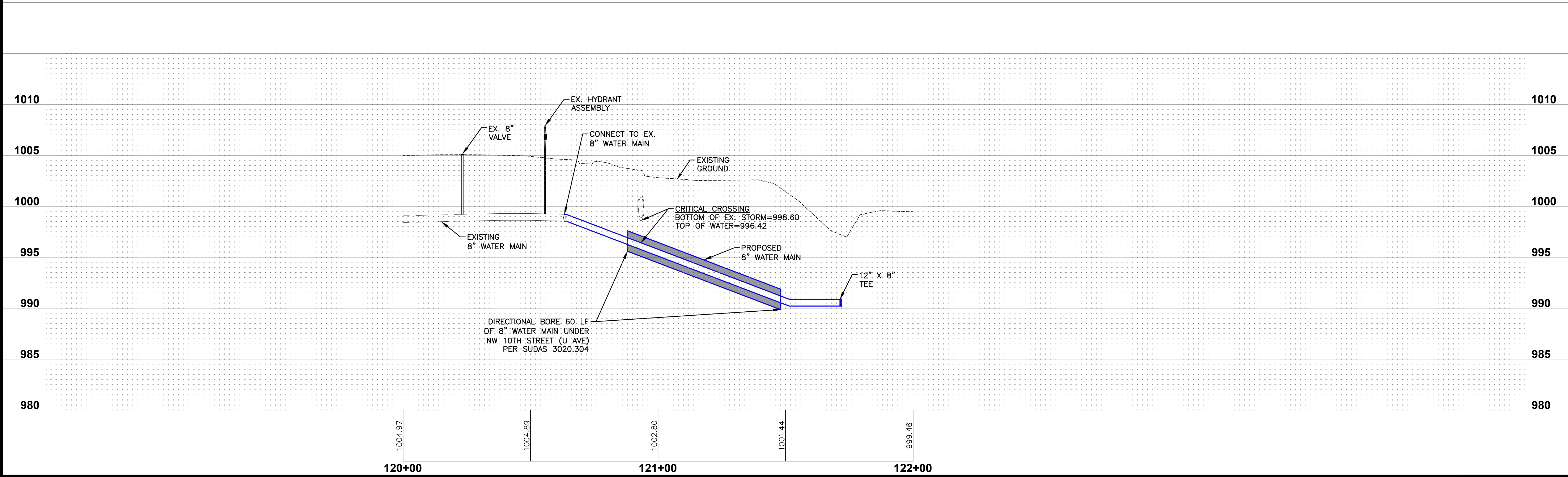
PARKSIDE PLAT 1

WATERMAIN PLAN AND PROFILE



PARKSIDE PLAT 1		CIVIL DESIGN ADVANTAGE	WISCONSIN
WATERMAIN PLAN AND PROFILE		WAUKESHA, WISCONSIN	DATE
		ENGINEER: JMM	REVISIONS
		TECH: JDS	2ND AS-BUILT SUBMITTAL 12/05/2024
			2ND AS-BUILT SUBMITTAL 10/25/2024
			FINAL SUBMITTAL 04/26/2024
			3RD SUBMITTAL 04/16/2024
			2ND SUBMITTAL 03/29/2024
			1ST SUBMITTAL 03/12/2024

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PLOT DATE: 12/15/2024 8:36 AM
PLOT BY: JMM
PLOT DATE: 12/15/2024 8:36 AM
PLOT BY: JMM



PARKSIDE PLAT 1
WATERMAIN PLAN AND PROFILE

WAUKEE, IOWA



ENGINEER: JMM

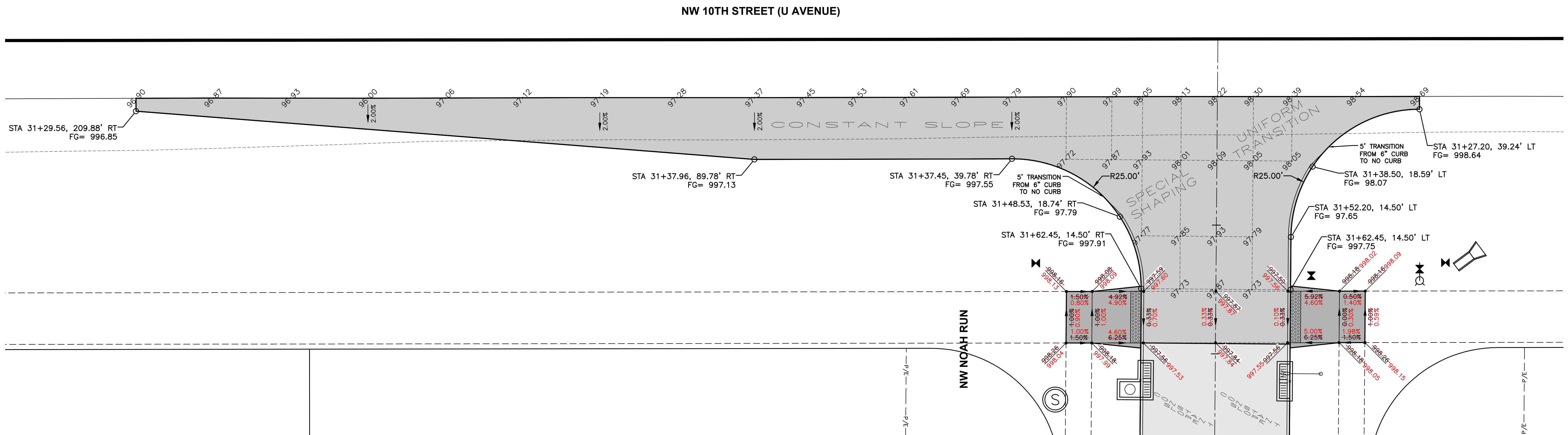
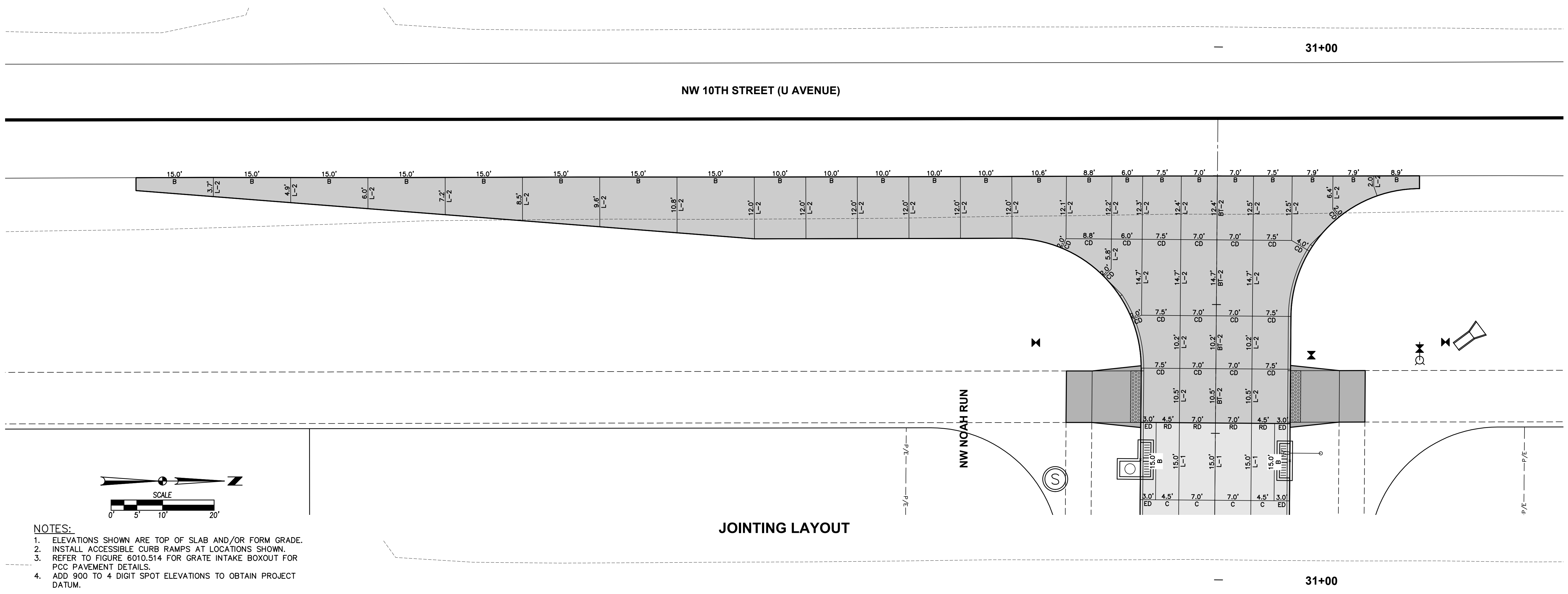
TECH: JDS

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

REVISIONS
2ND AS-BUILT SUBMITTAL
1ST AS-BUILT SUBMITTAL
FINAL SUBMITTAL
3RD SUBMITTAL
2ND SUBMITTAL
1ST SUBMITTAL

DATE
12/05/2024
10/25/2024
04/26/2024
04/16/2024
03/29/2024
03/12/2024





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 PLOTTED BY: JOSHUA STONEBERG
 COMMENT: TECH: ENG:

REVISIONS	DATE
2ND AS-BUILT SUBMITTAL	12/05/2024
1ST AS-BUILT SUBMITTAL	10/25/2024
FINAL SUBMITTAL	04/26/2024
3RD SUBMITTAL	04/16/2024
2ND SUBMITTAL	03/29/2024
1ST SUBMITTAL	03/12/2024

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400

ER: JMM | TECH: JD

4121 NW
URBA
PHON

ENGINEER: JMM



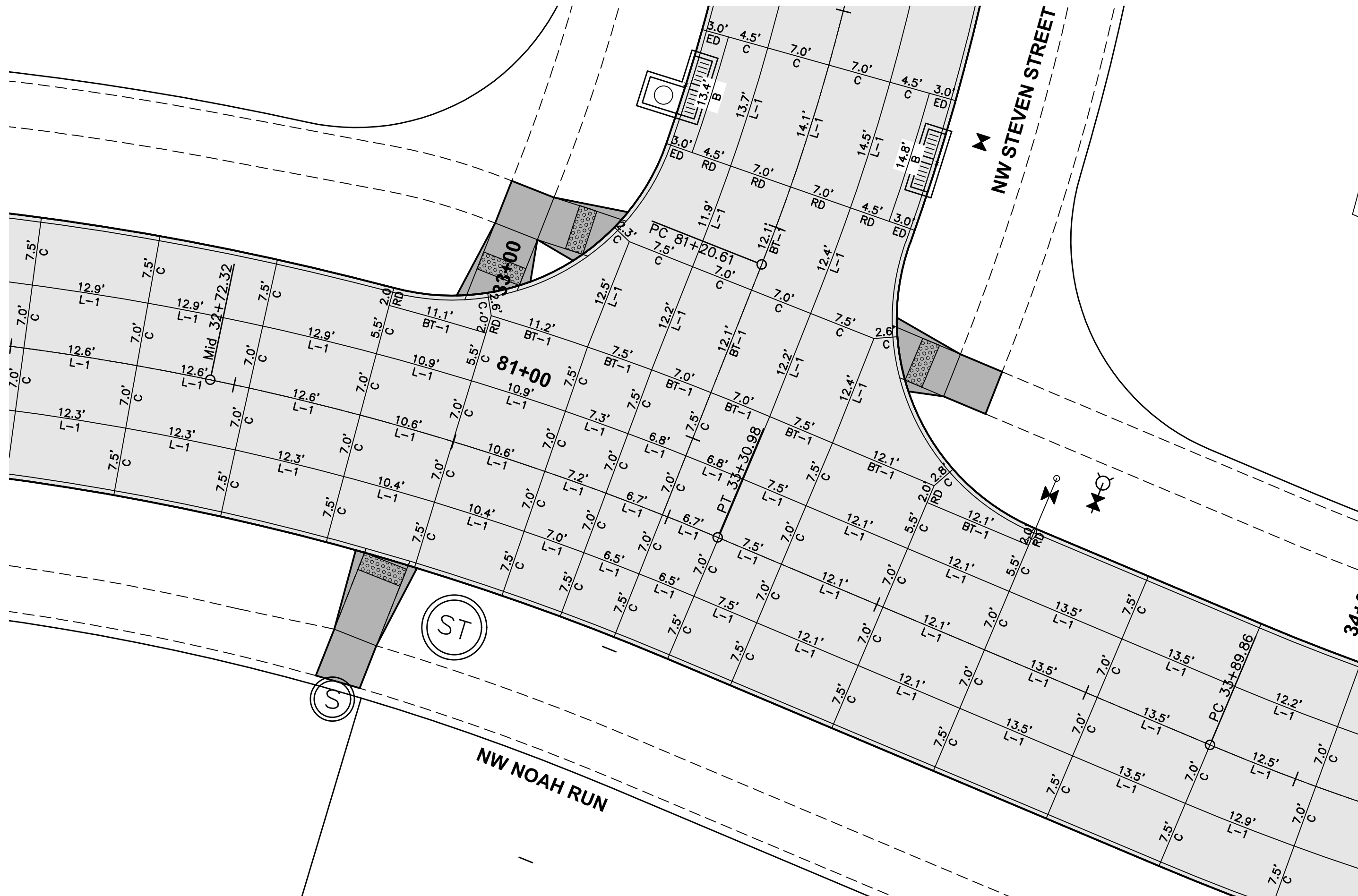
WAUKEE, IOWA

PARKSIDE PLAT 1

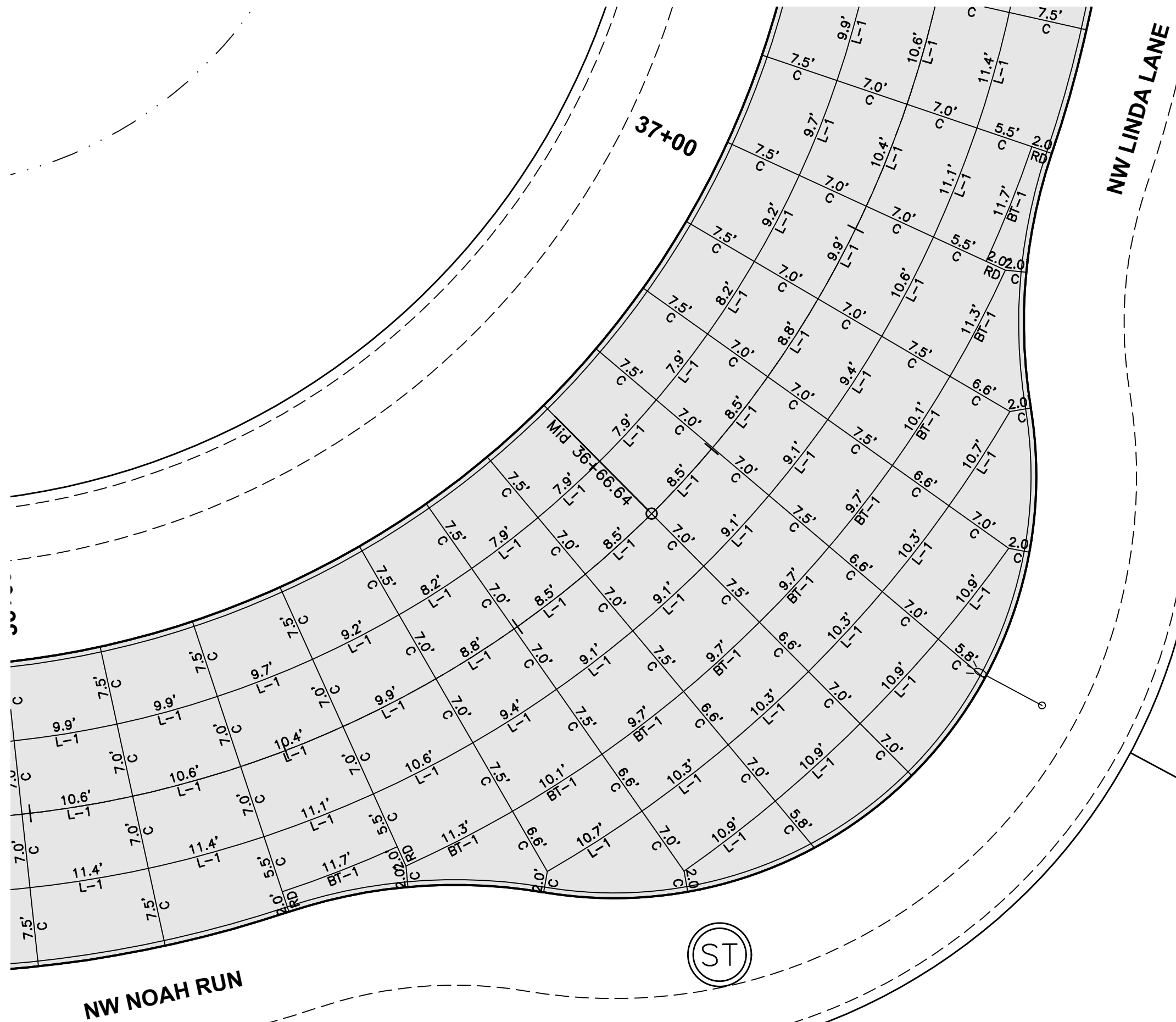
INTERSECTION DETAIL

36/39
2402.122
GA

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PLOT: 1
PLOTTER: HP DesignJet 500

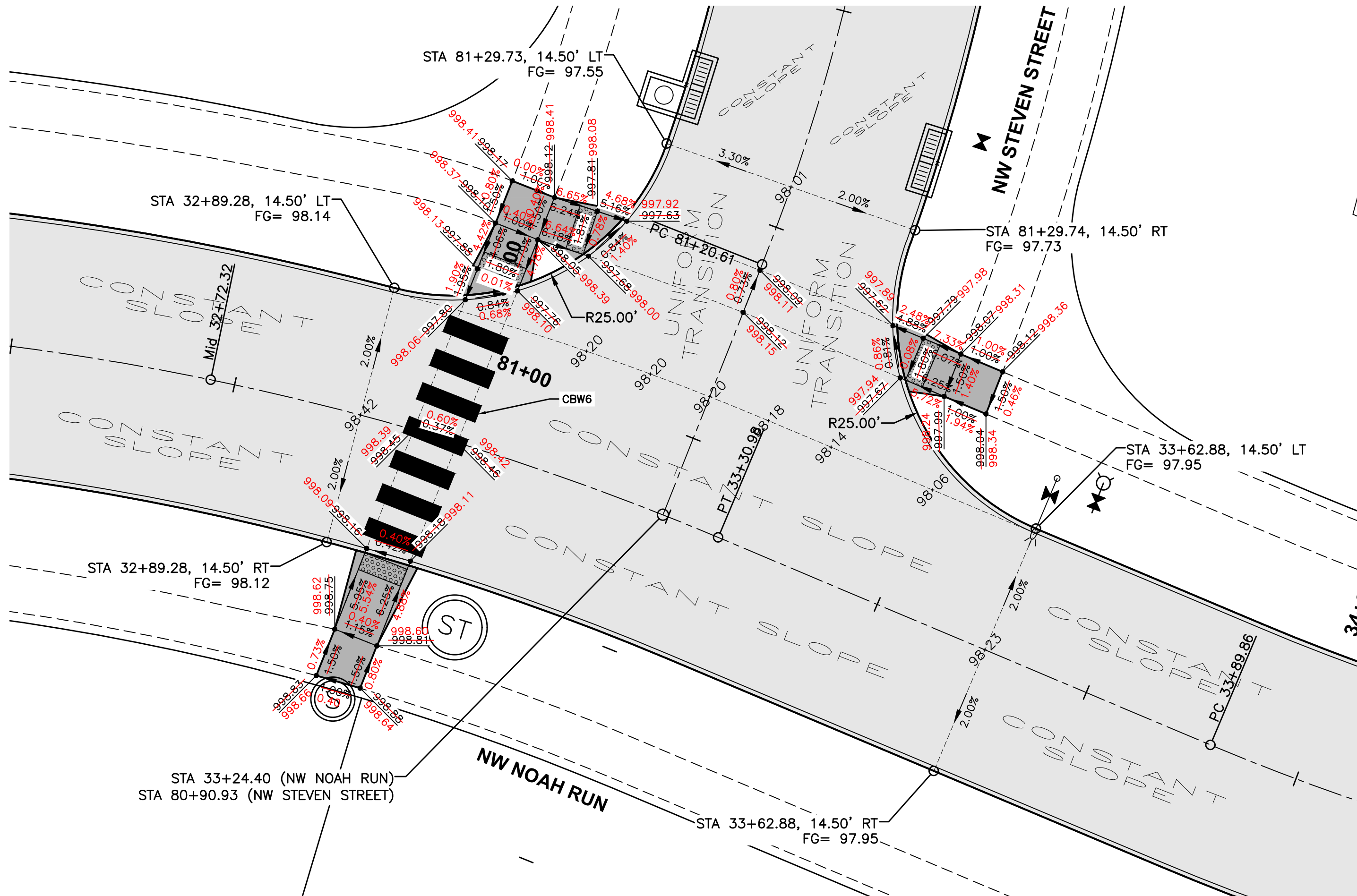


JOINTING LAYOUT

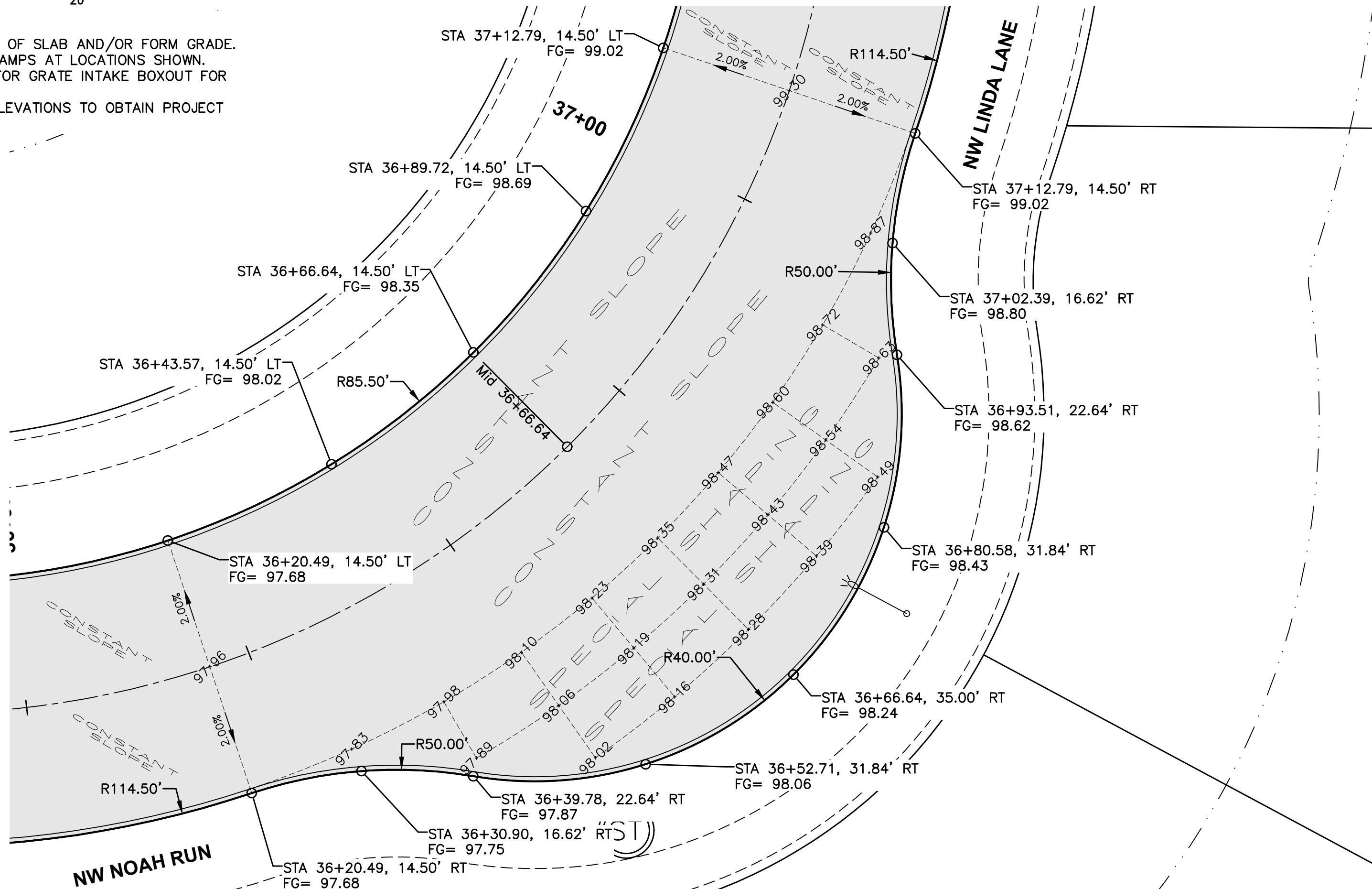


JOINTING LAYOUT

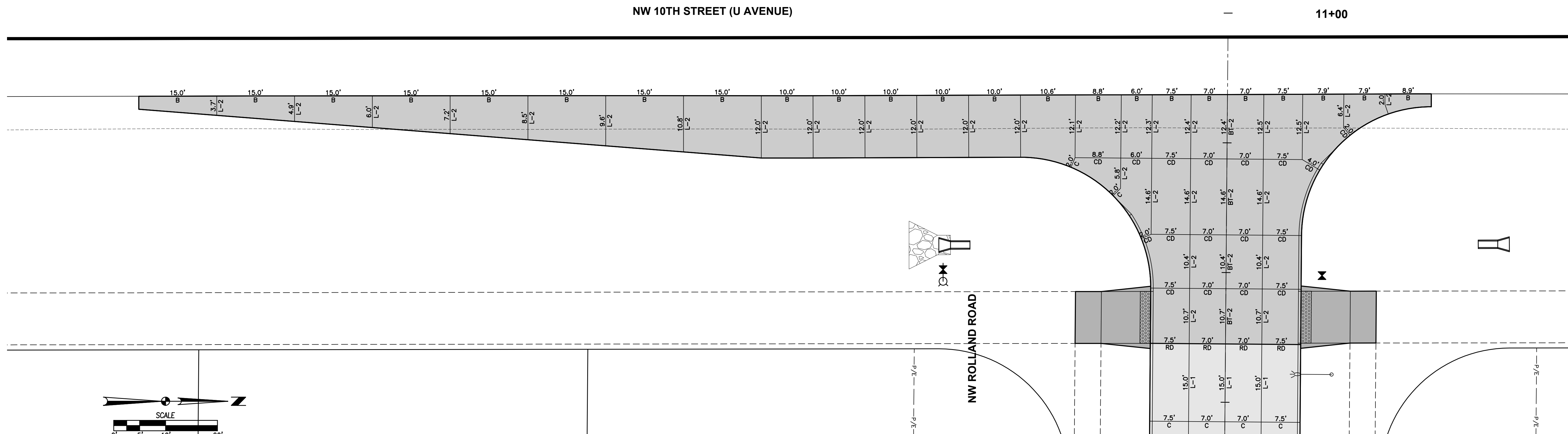
- NOTES:
- ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 - INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
 - REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
 - ADD 900 TO 4 DIGIT SPOT ELEVATIONS TO OBTAIN PROJECT DATUM.



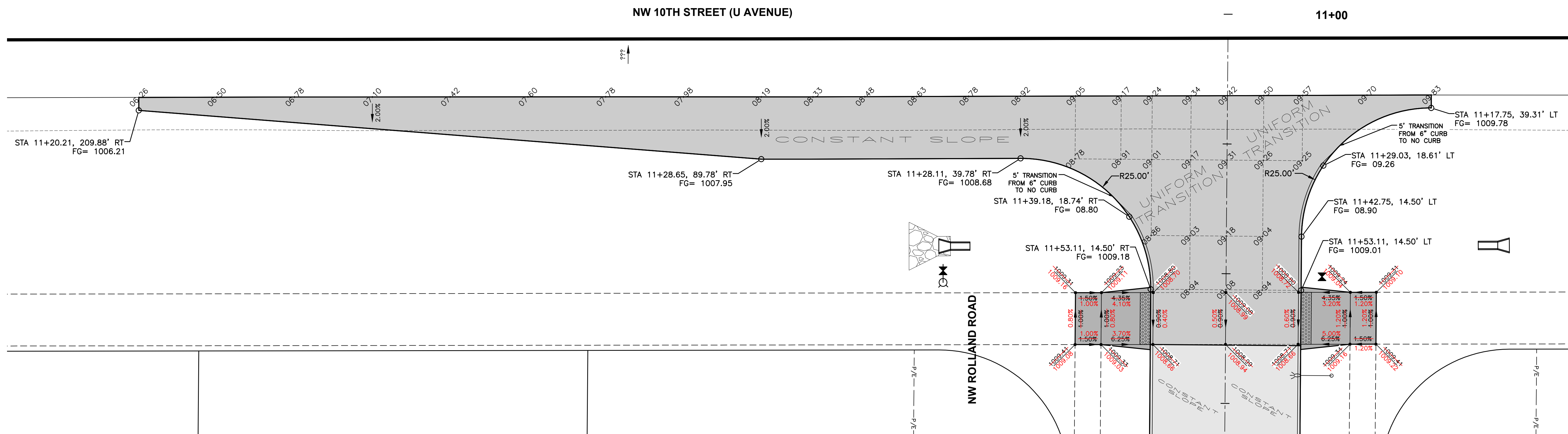
GEOMETRICS AND STAKING LAYOUT

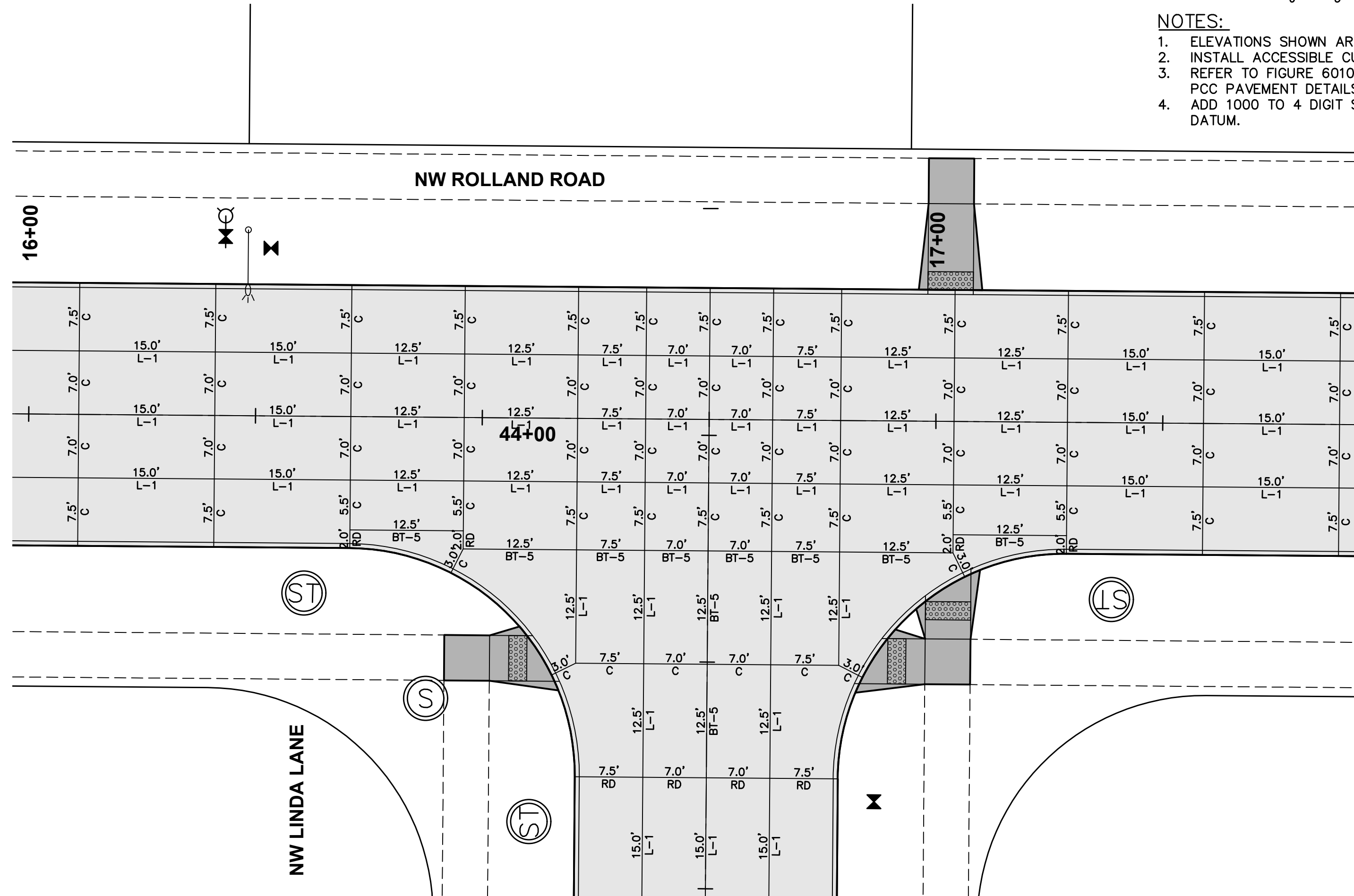


GEOMETRICS AND STAKING LAYOUT

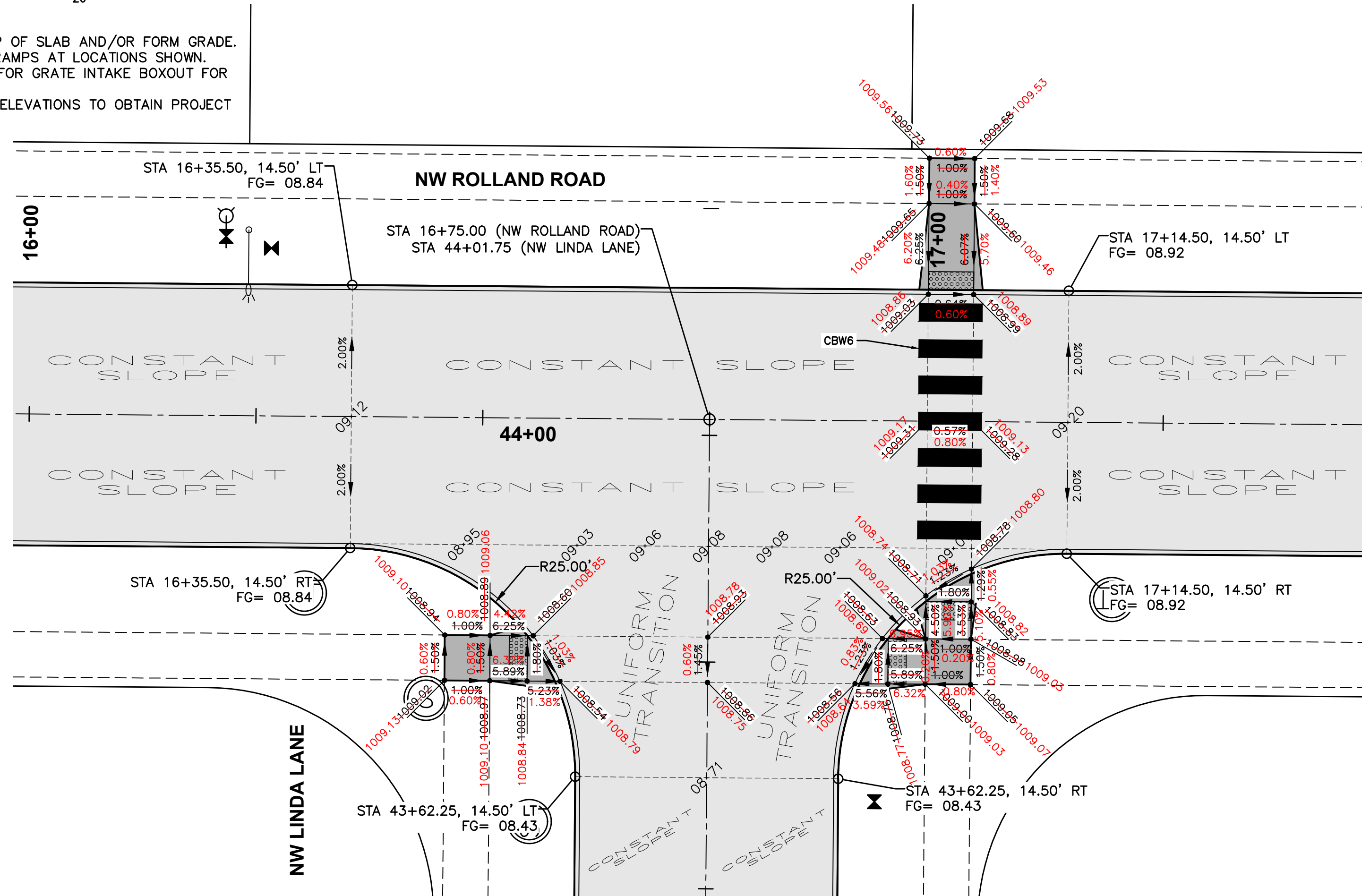
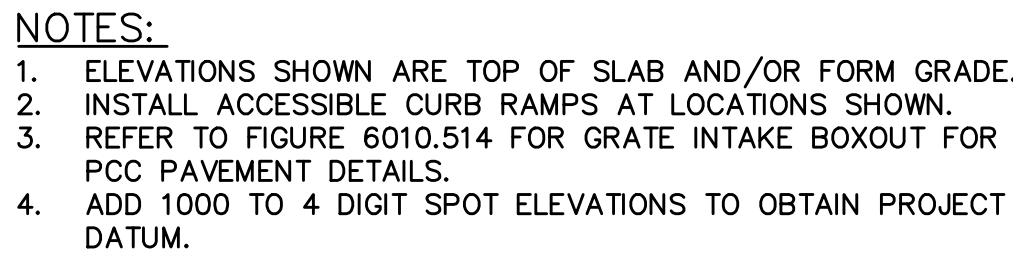


- NOTES:
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
 3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
 4. ADD 900 TO 4 DIGIT SPOT ELEVATIONS TO OBTAIN PROJECT DATUM.





JOINTING LAYOUT



GEOMETRICS AND STAKING LAYOUT

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
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WAUKEE, IOWA

PARKSIDE PLAT 1

INTERSECTION DETAIL