

RECORD DRAWING

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RECORD DRAWINGS PRODUCED ON: 12/09/2020

KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

WAUKEE, IOWA



building strong communities.

1360 NW 121ST. Street
Clive, Iowa 50325
515-964-1229
fax 515-964-2370

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OWNER/APPLICANT

JERRY'S HOMES INC.
10430 NEW YORK AVE., SUITE C
URBANDALE, IOWA 50322
(515) 727-0356
ATTN: JAY COWAN

ENGINEER

McCLURE ENGINEERING
1360 NW 121ST STREET
CLIVE, IOWA 50325
(515) 964-1229
ATTN: JAKE BECKER
jbecker@meclure.com

DEVELOPMENT SCHEDULE

GRADING: FALL 2020
PRIVATE DETENTION & UTILITIES: SPRING 2021
PAVING: SPRING 2021

LAND COVER

IMPERVIOUS AREA: 51,328 SF (8.25%)
OPEN AREA: 570,784 SF (91.75%)
TOTAL AREA: 622,122 SF (100.0%)

ZONING

R-2 (ONE & TWO-FAMILY RESIDENTIAL DISTRICT)

BULK REGULATIONS

- MINIMUM LOT AREA: 8,000 SF
950 SF FOR SINGLE STORY
1,250 SF FOR TWO-STORY
(MIN 600 SF FIRST FLOOR)
350 SF PER LEVEL FOR SPLIT LEVEL
950 SF PER STORY FOR SPLIT FOYER
- MINIMUM LOT WIDTH: 65 FT
MINIMUM FRONT YARD: 30 FT
MINIMUM SIDE YARDS: TOTAL OF 15 FT, MIN. OF 7 FT PER SIDE
MINIMUM REAR YARD: 30 FT
MAXIMUM HEIGHT: 40 FT FOR PRINCIPAL BUILDING
14 FT FOR ACCESSORY BUILDINGS
3 STORIES FOR PRINCIPAL BUILDINGS
1 STORY FOR ACCESSORY BUILDINGS
- MINIMUM LOT WIDTH: 65 FT
- MINIMUM FRONT YARD: 30 FT
- MINIMUM SIDE YARDS: TOTAL OF 15 FT, MIN. OF 7 FT PER SIDE
- MINIMUM REAR YARD: 30 FT
- MAXIMUM HEIGHT: 40 FT FOR PRINCIPAL BUILDING
14 FT FOR ACCESSORY BUILDINGS
3 STORIES FOR PRINCIPAL BUILDINGS
1 STORY FOR ACCESSORY BUILDINGS
- MAXIMUM STORIES: 3 STORIES FOR PRINCIPAL BUILDINGS
1 STORY FOR ACCESSORY BUILDINGS

PRINCIPAL USES

PRINCIPAL PERMITTED USES ARE FOR SINGLE FAMILY RESIDENTIAL DEVELOPMENT.

UTILITIES

WATER: CITY OF WAUKEE
SEWER: CITY OF WAUKEE
NATURAL GAS: CITY OF WAUKEE
ELECTRIC: MIDAMERICAN ENERGY COMPANY
PHONE/CABLE: CENTURYLINK LOCAL NETWORK
MEDIACOM COMMUNICATIONS CORP
FIBER: MI-FIBER

BENCHMARK

BM #100 BURN BOLT ON HYDRANT, FIRST HYDRANT ON SOUTH SIDE OF TALLGRASS.
ELEV: 1025.61

SECTION, TOWNSHIP, RANGE

004 - 078 - 026

PARKLAND DEDICATION

REQUIRED: (# OF LOTS * 3 * 6 / 1000) = (62 * 3 * 6 / 1000) = 1.116 AC
THIS PARKLAND WAS DEDICATED AS PART OF THE STONE PRAIRIE DEVELOPMENT.

PAVEMENT

SE BLUESTEM DRIVE: 7" NON-REINFORCED PCC
SE CLOVER COURT: 7" NON-REINFORCED PCC
SE RED FERN DRIVE: 7" NON-REINFORCED PCC

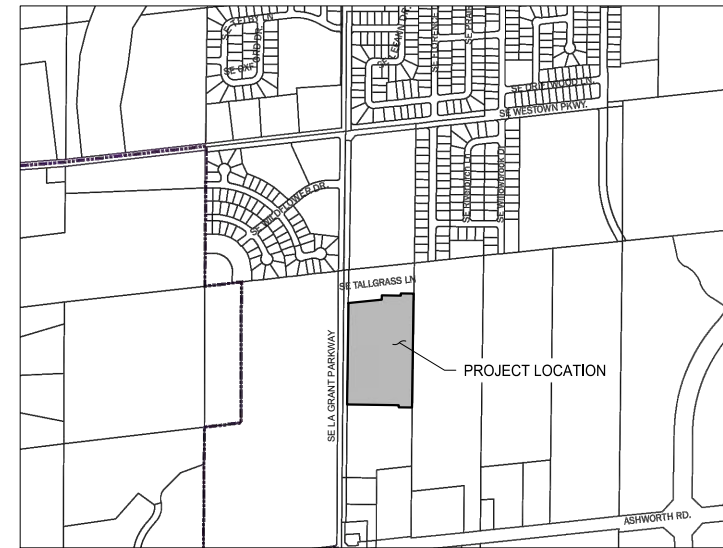
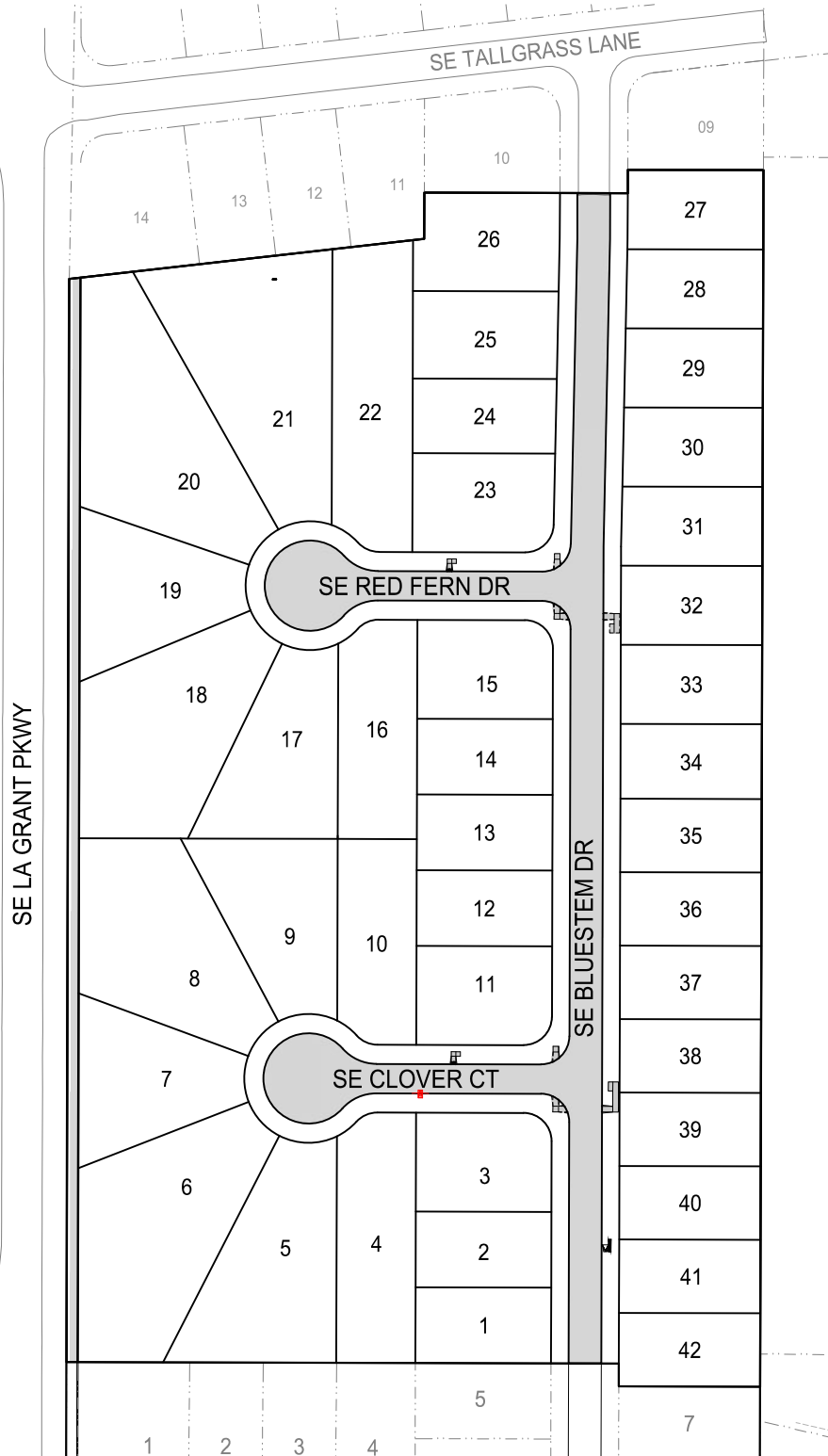
LANDSCAPING

REQUIRED: 1 OVERSTORY, 2 EVERGREENS 2 ORNAMENTAL PER 50 LF OF BUFFER
959 LF BUFFER = 20 OVERSTORY, 40 ORNAMENTAL, 40 EVERGREEN

PROVIDED: 20 OVERSTORY, 40 ORNAMENTAL, 40 EVERGREEN

NOTES

- DRIVEWAYS SHALL BE CONSTRUCTED TO AVOID MANHOLES, INTAKES AND CLEANOUTS WHERE FEASIBLE.
- DRIVEWAYS SHALL BE CONSTRUCTED TO, UNDER ALL CIRCUMSTANCES, AVOID ADA RAMPS, MAILBOX PADS, HYDRANTS, AND STREETLIGHTS.

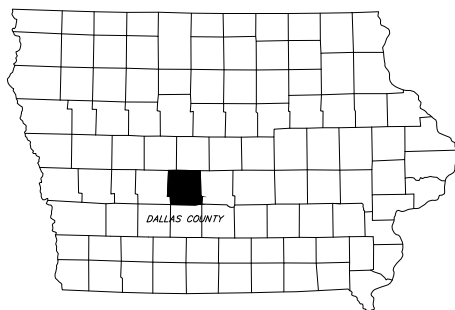
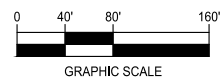


VICINITY MAP - CITY OF WAUKEE
NOT TO SCALE

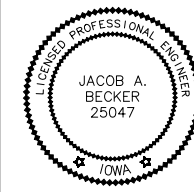
Sheet List Table		
Sheet No.	Sheet Title	Sheet Description
1	GN-01	COVER SHEET
2	GN-02	GENERAL NOTES AND LEGEND
3	GN-03	EXISTING CONDITIONS AND SURVEY CONTROL
4	GN-04	GENERAL LAYOUT AND DIMENSION PLAN
5	GR-01	GRADING PLAN
6	GR-02	SEDIMENT & EROSION CONTROL SHEET
7	SA-01	SANITARY SEWER PLAN AND PROFILE
8	SA-02	SANITARY SEWER PLAN AND PROFILE
9	ST-01	STORM SEWER PLAN AND PROFILE
10	ST-02	STORM SEWER PLAN AND PROFILE
11	ST-03	STORM SEWER PLAN AND PROFILE
12	ST-04	STORM SEWER PLAN AND PROFILE
13	WA-01	WATER PLAN AND PROFILE
14	WA-02	WATER PLAN AND PROFILE
15	PA-01	PAVING PLAN AND PROFILE
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17	JT-01	JOINTING DETAILS AND ADA RAMP DESIGN
18	JT-02	JOINTING DETAILS AND ADA RAMP DESIGN
19	LI-01	LIGHTING PLAN AND CUT SHEETS
20	LA-01	LANDSCAPE PLAN
21	DT-01	DETAILS
22	DT-02	DETAILS
23	DT-03	DETAILS

COVER SHEET

ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE IOWA STATEWIDE URBAN DESIGN STANDARDS.



IOWA STATE MAP
NO SCALE



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.

Jacob A. Becker, PE No. 25047
DATE: 10-9-2021
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021
PAGES OR SHEETS COVERED BY THIS SEAL:
SHEETS 1 - 23

KETTLESTONE RIDGE PLAT 6
CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

DRAWING NO.: GN-01
SHEET NO.: 1 / 23

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McCLURE ENGINEERING COMPANY

RECORD DRAWING

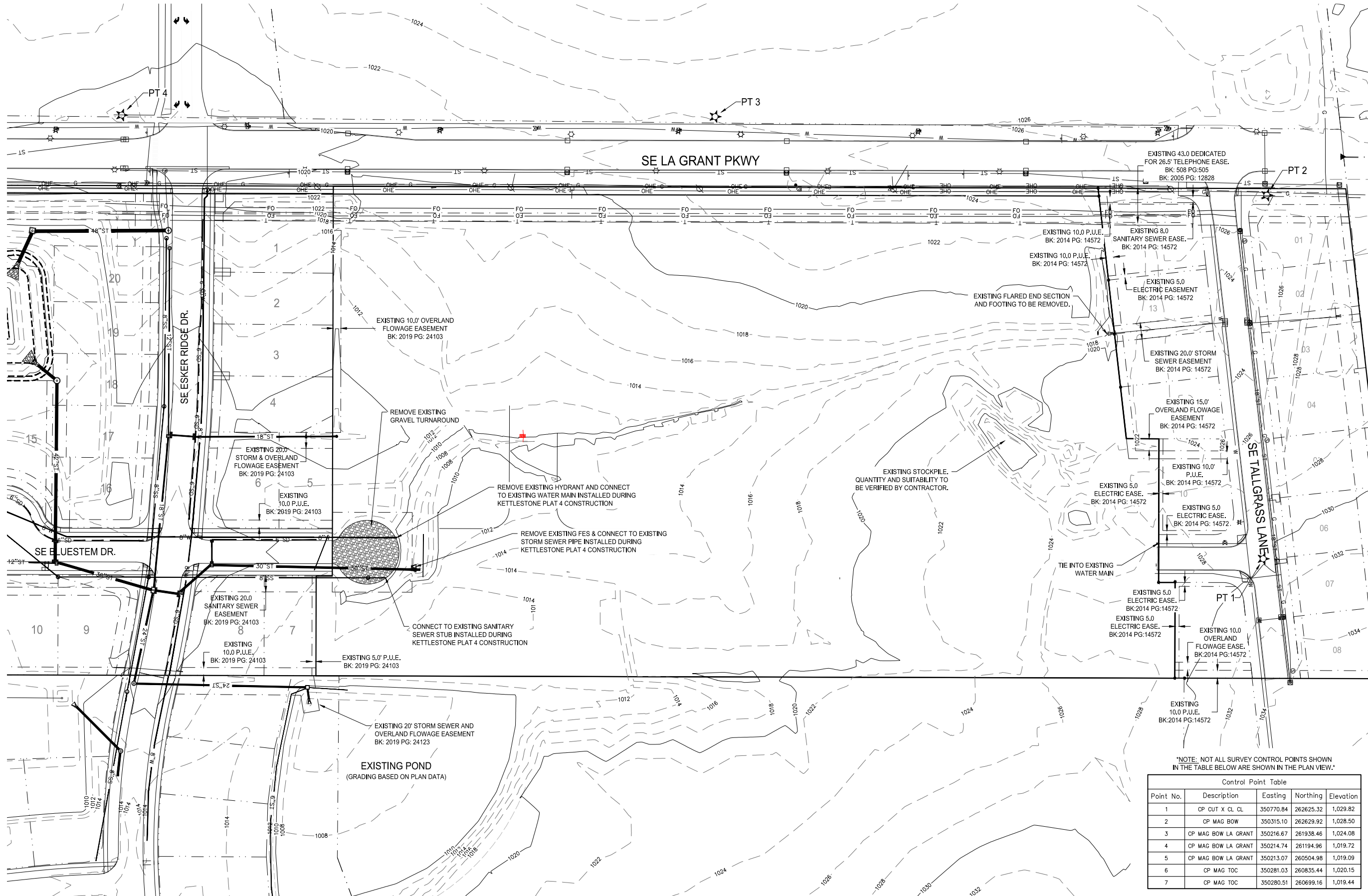
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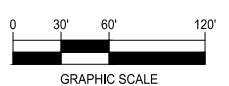
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EXISTING CONDITIONS AND SURVEY CONTROL



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NOTE: NOT ALL SURVEY CONTROL POINTS SHOWN IN THE TABLE BELOW ARE SHOWN IN THE PLAN VIEW.

Point No.	Description	Easting	Northing	Elevation
1	CP CUT X CL CL	350770.84	262625.32	1,029.82
2	CP MAG BOW	350315.10	262629.92	1,028.50
3	CP MAG BOW LA GRANT	350216.67	261938.46	1,024.08
4	CP MAG BOW LA GRANT	350214.74	261194.96	1,019.72
5	CP MAG BOW LA GRANT	350213.07	260504.98	1,019.09
6	CP MAG TOC	350281.03	260835.44	1,020.15
7	CP MAG TOC	350280.51	260699.16	1,019.44

ENGINEER
J. BECKER

DRAWN BY
J. BECKER

CHECKED BY
C. SMITH

FIELD BOOK NO.

DRAWING NO. **GN-03**

SHEET NO. **3 / 23**

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RECORD DRAWING

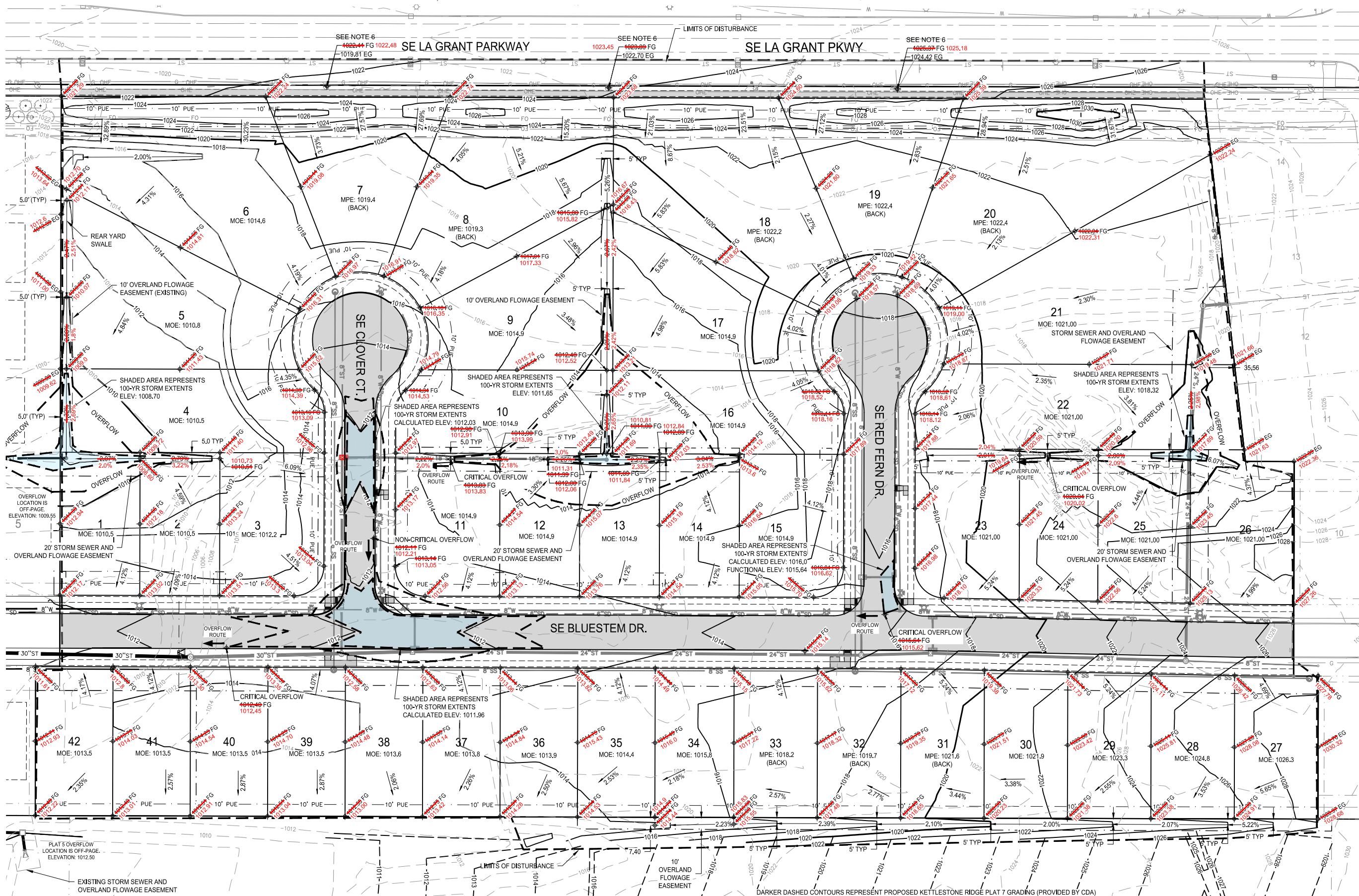
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GRADING NOTES:

- 1) REAR YARD DRAINAGE SWALES SHALL BE 2.0% MINIMUM RUNNING SLOPE. DESIGN/TARGET IS GENERALLY 2.25%.
- 2) SITE SHALL BE GRADED SO LOCALIZED PONDING DOES NOT OCCUR.
- 3) SILT FENCE AND OTHER EROSION CONTROL METHODS ARE TO BE INSTALLED PER THE SWPPP AND SUDAS STANDARDS.
- 4) LIMITS OF DISTURBANCE = 15.0 ACRES
- 5) FINAL DISCHARGE LOCATION FOR STORM WATER WILL BE DITCHES TO SUGAR CREEK TO THE RACCOON RIVER.
- 6) COORDINATE GRADING AROUND POLE WITH FRANCHISE UTILITY OWNER. POLE RELOCATION AND/OR ELEVATION CHANGE MAY BE REQUIRED.
- 7) MOE'S ARE GENERALLY ESTABLISHED AT 1.0' ABOVE EITHER THE ADJACENT OVERFLOW OR LOWEST LOT ELEVATION,

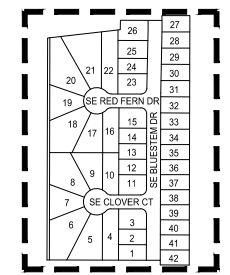
WHICHEVER IS HIGHER. SOME EXCEPTIONS EXIST. ELEVATIONS ARE LISTED AS A MINIMUM, AND HOMEOWNER SHOULD TAKE IN TO ACCOUNT DRAINAGE AROUND THE FINISHED GRADE OF HOMES, OFTEN RESULTING IN HIGHER ELEVATIONS THAN THOSE LISTED IN THESE PLANS.
 8) LOTS 7, 8, 18, 19, 20, 31, 32, 33 ARE "FRONT DRAINING" LOTS AND CONTAIN A "MPE (BACK)" DESIGNATION. THIS IS GENERALLY 1FT ABOVE THE HIGHEST REAR CORNER OF THE EXPECTED BUILDING ENVELOPE. THIS SHOULD BE THE PROTECTION ELEVATION OF FINISHED FLOOR ELEVATION AT THE BACK OF THE HOME. WHILE NOT REQUIRED, IT WOULD BE PRUDENT OF THE HOMEOWNER TO PREPARE A DETAILED LOT GRADING PLAN FOR THESE LOTS AT THE TIME A BUILDING PERMIT IS SUBMITTED TO ENSURE ADEQUATE DRAINAGE AROUND THE BUILDING.



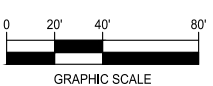
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GRADING PLAN



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 2211013-040
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DRAWING NO. GR-01
 SHEET NO. 5 / 23

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BEST MANAGEMENT PRACTICES NOTE
 BMPs ARE DISCUSSED IN MORE DETAIL IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
 AND WILL INCLUDE: GOOD HOUSEKEEPING, PREVENTATIVE MAINTENANCE, VISUAL INSPECTIONS, SPILL
 PREVENTION AND RESPONSE, SEDIMENT AND EROSION PREVENTION, TRADITIONAL STORM WATER
 MANAGEMENT PRACTICES, BMPs TO ADDRESS PARTICULAR POLLUTANT SOURCES, EMPLOYEE TRAINING,
 AND RECORD KEEPING AND REPORTING.

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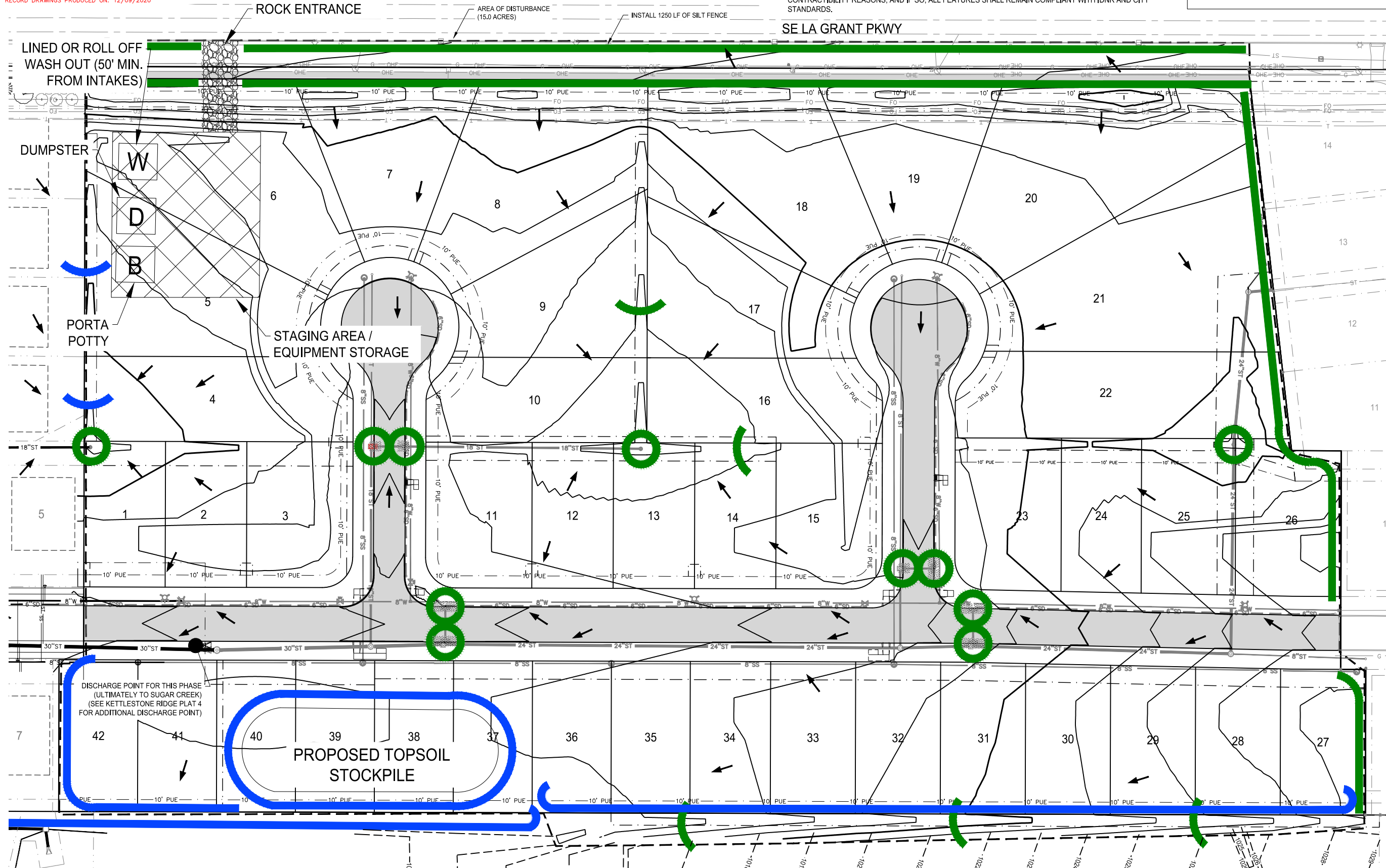
ITEM	ESTIMATED EROSION CONTROL QUANTITIES	QTY.
EROSION CONTROL SEEDING	14.5	AC
SILT FENCE / MULCH LOG	5500	LF
INTAKE PROTECTION DROP IN DEVICE	12	EA
STABILIZED CONSTRUCTION ENTRANCE	1	EA

NOTES:

- 1) THIS SEDIMENT AND EROSION CONTROL SHEET IS FOR INFORMATIONAL PURPOSES ONLY AND IS SUPPLEMENTAL TO THE STORM WATER POLLUTION PREVENTION PLAN THAT IS NOT PREPARED AT THE TIME OF THIS WRITING. WHERE DISCREPANCIES OR OMISSIONS OCCUR, THE SWPPP AS PREPARED SHOULD GOVERN.
- 2) STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- 3) UPON COMPLETION OF THE PROJECT, ALL REMAINING BARE SOIL AREAS WILL BE SEEDDED WITH SUDAS SEED MIX TYPE 4 AND STRAW MULCHED UNTIL HOME CONSTRUCTION BEGINS.
- 4) APPROXIMATE AREA OF DISTURBANCE IS 15.0 ACRES.
- 5) CONTRACTOR MAY ELECT TO LOCATE FEATURES IN LOCATIONS OTHER THAN SHOWN ON THIS PLAN FOR CONTRACTABILITY REASONS, AND IF SO, ALL FEATURES SHALL REMAIN COMPLIANT WITH IDNR AND CITY STANDARDS.

LEGEND:

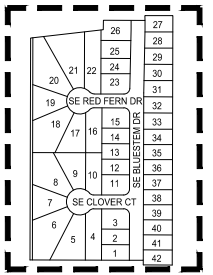
-  SILT FENCE
-  BELOW GRADE INTAKE PROTECTION (POST PAVING)
-  SILT FENCE OR MULCH LOG
-  AREA OF DISTURBANCE



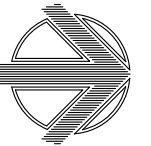
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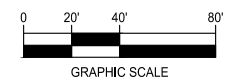
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SEDIMENT & EROSION CONTROL SHEET



NORTH



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
 2211013-040
 JUNE 22, 2020

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 7.7.2020
 7.21.2020
 12.09.2020 ASBUILT

ENGINEER: J. BECKER
 DRAWN BY: J. BECKER
 CHECKED BY: C. SMITH
 FIELD BOOK NO.:

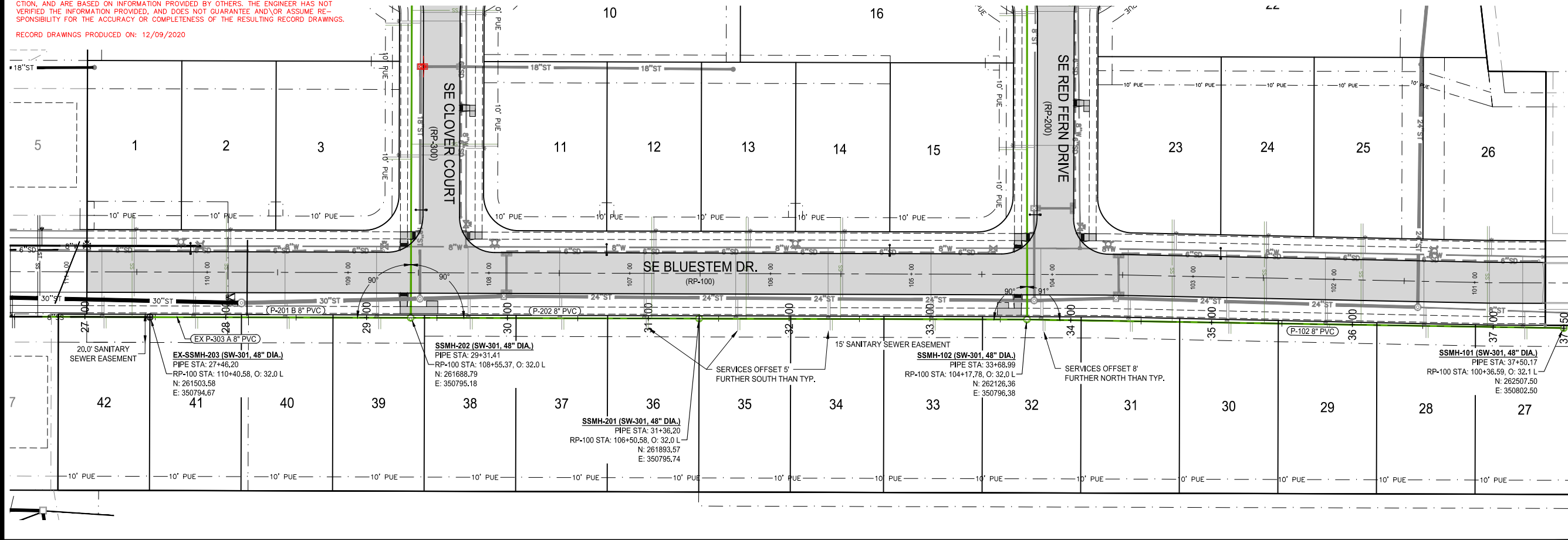
DRAWING NO. GR-02
 SHEET NO. 6 / 23

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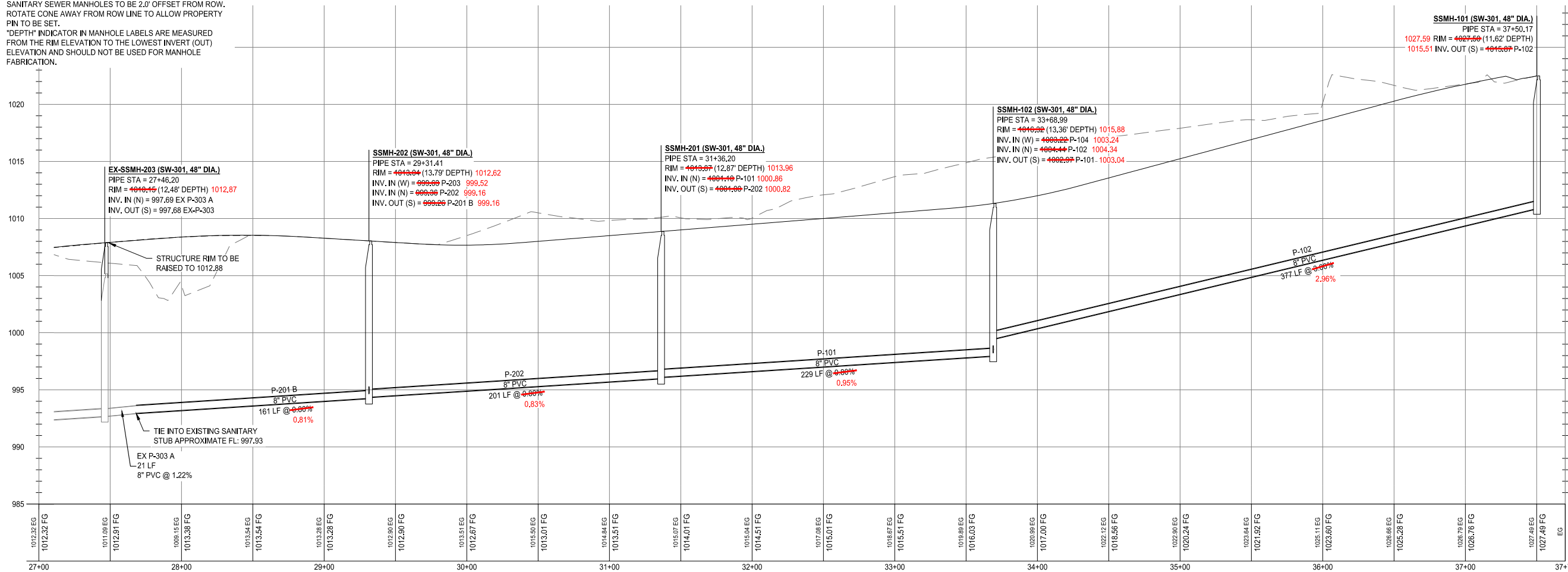
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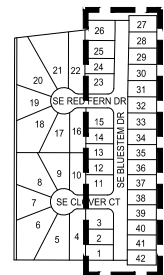
- NOTES:
- SANITARY SEWER MANHOLES TO BE 2.0' OFFSET FROM ROW. ROTATE CONE AWAY FROM ROW LINE TO ALLOW PROPERTY PIN TO BE SET.
 - "DEPTH" INDICATOR IN MANHOLE LABELS ARE MEASURED FROM THE RIM ELEVATION TO THE LOWEST INVERT (OUT) ELEVATION AND SHOULD NOT BE USED FOR MANHOLE FABRICATION.



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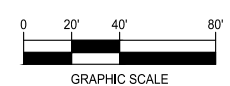
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SANITARY SEWER PLAN AND PROFILE



NORTH



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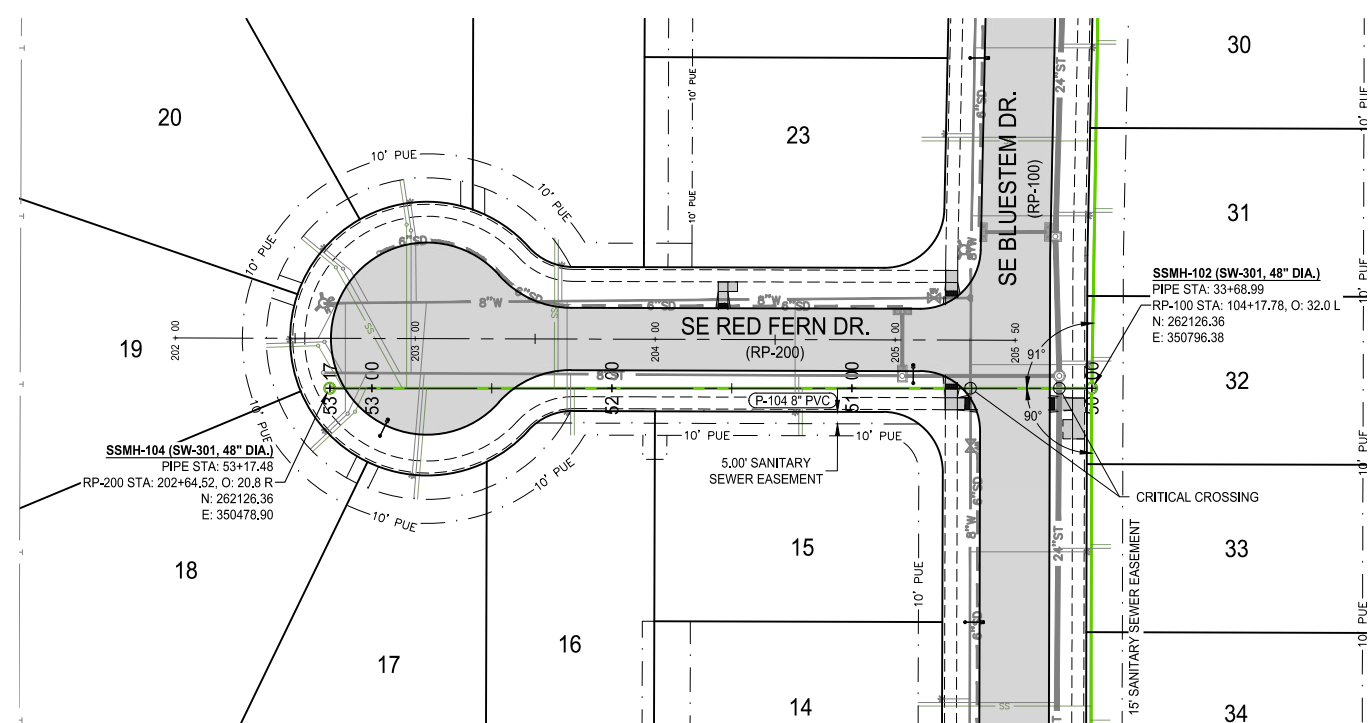
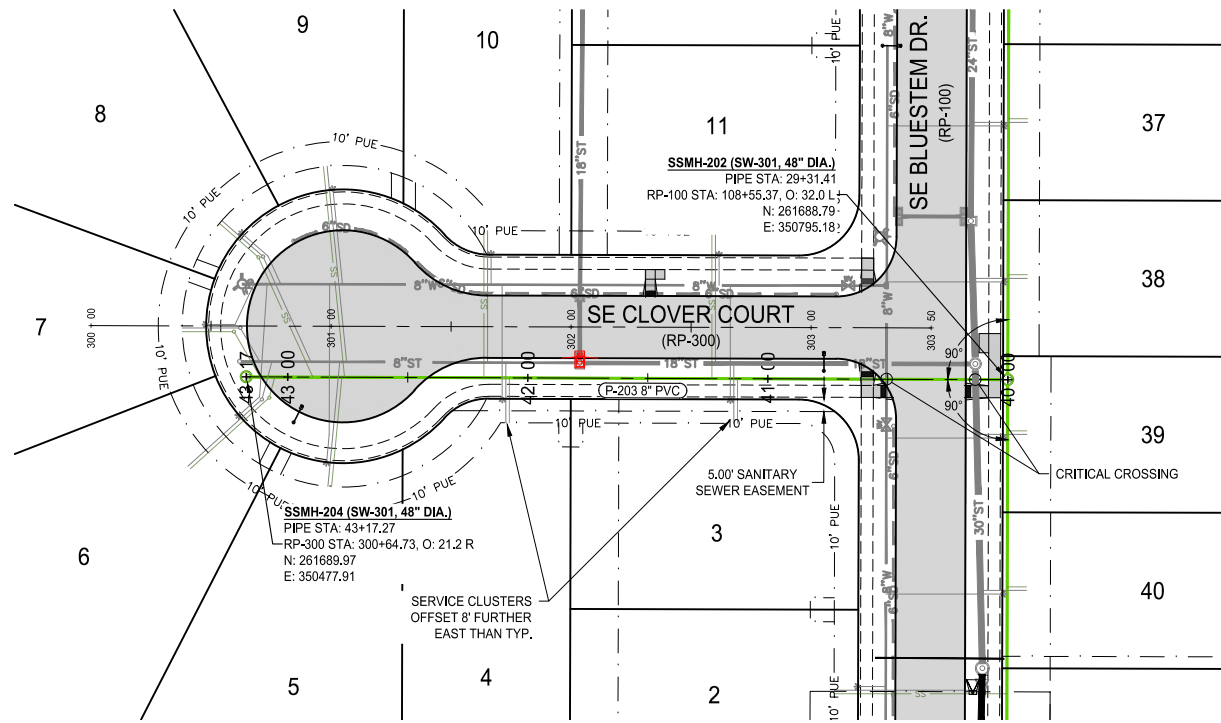
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SHEET NO.: 7 / 23

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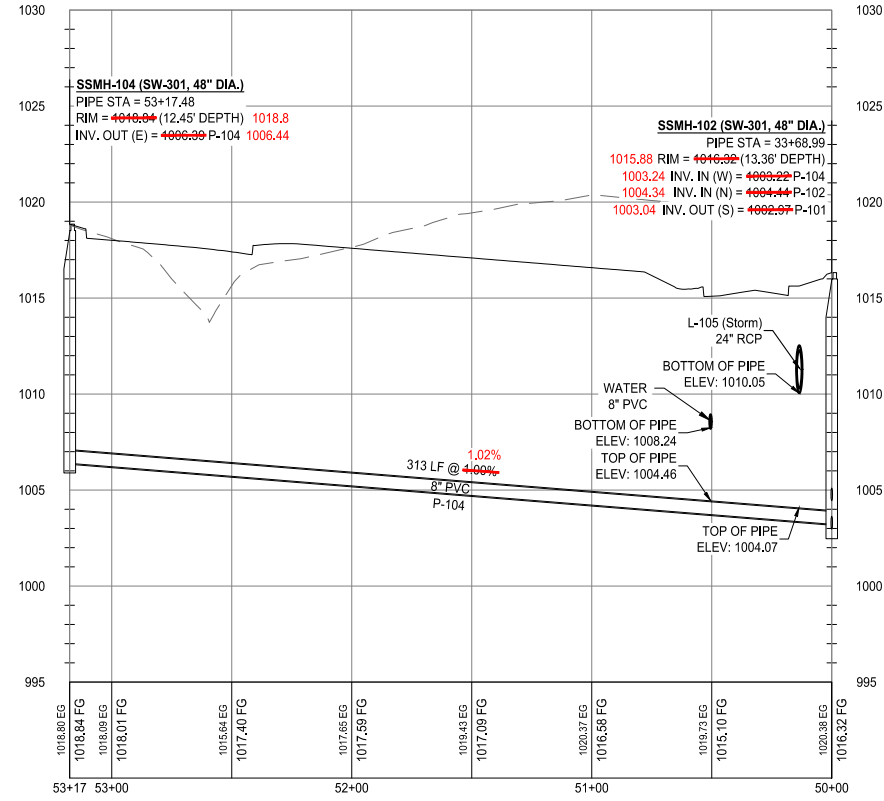
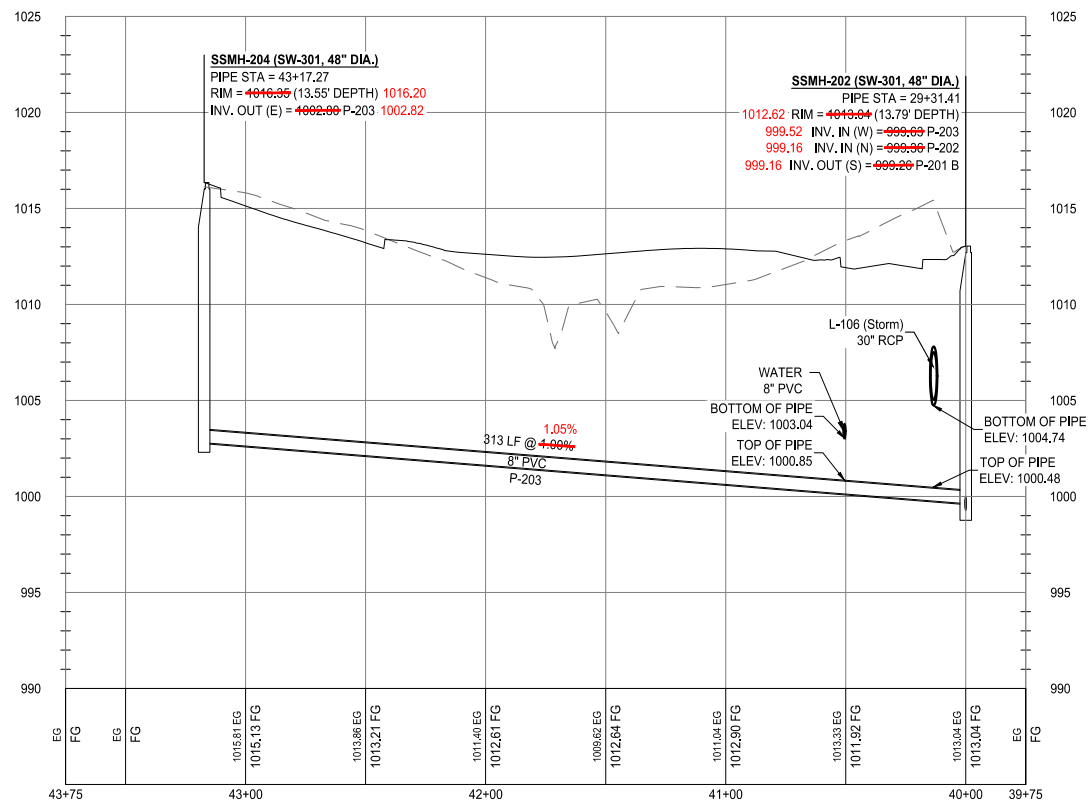
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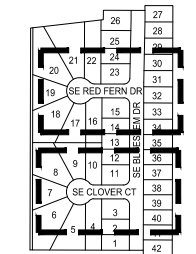
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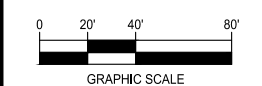
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SANITARY SEWER PLAN AND PROFILE



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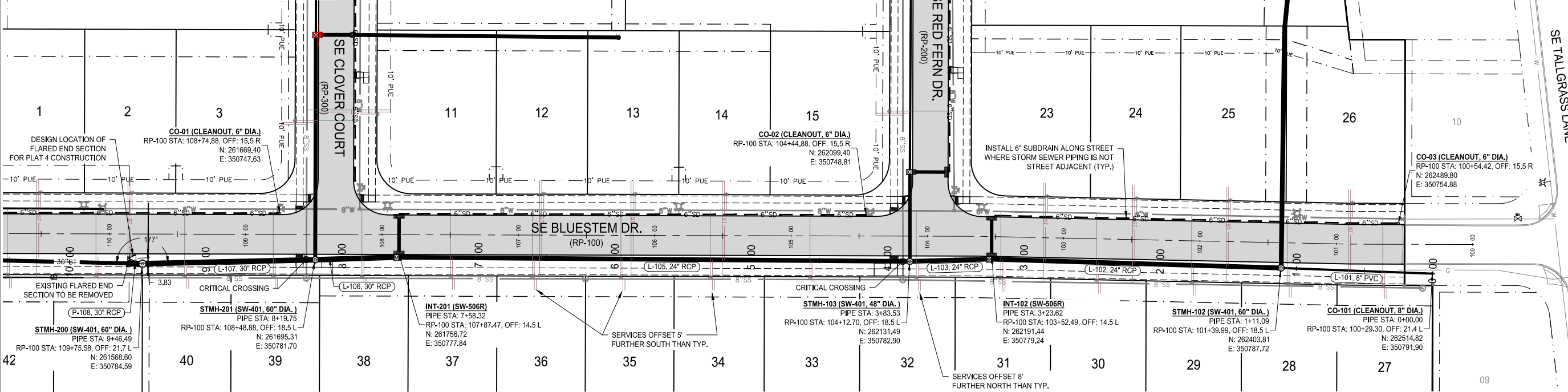
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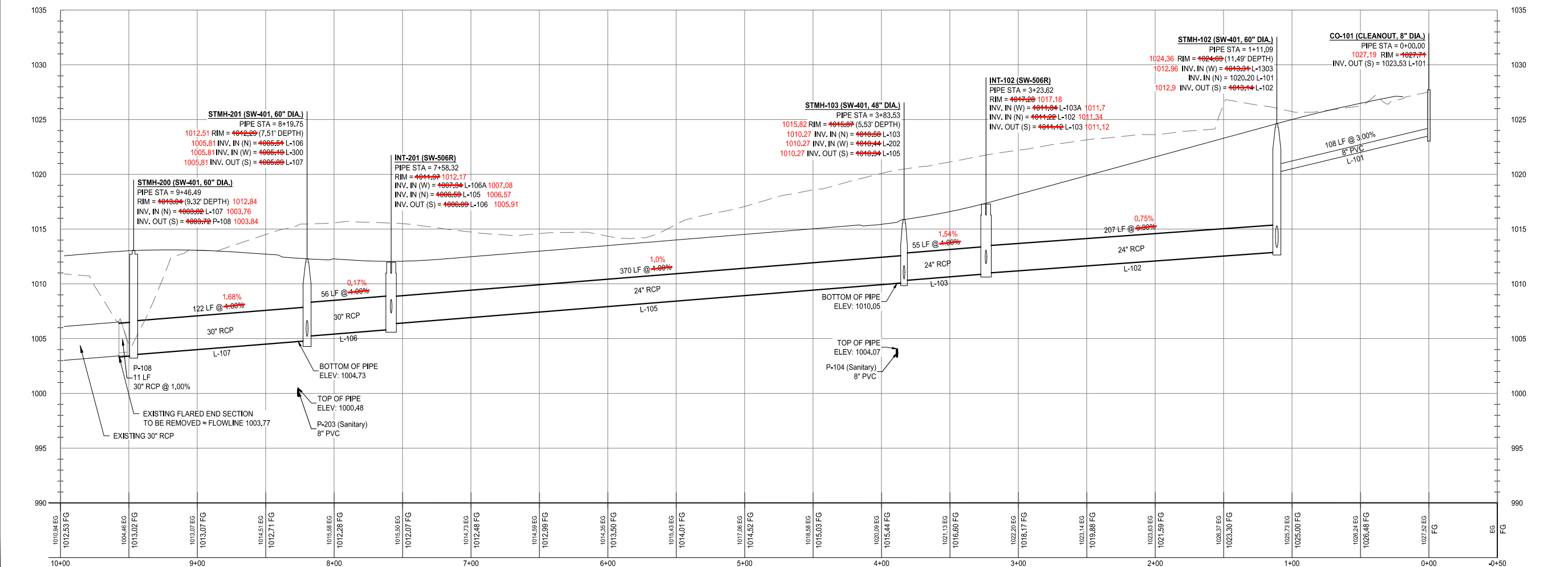
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RECORD DRAWINGS PRODUCED ON: 12/09/2020



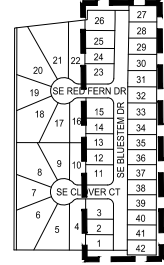
NOTES:
1) "DEPTH" INDICATOR IN MANHOLE LABELS ARE MEASURED FROM THE RIM ELEVATION TO THE LOWEST INVERT (OUT) ELEVATION AND SHOULD NOT BE USED FOR MANHOLE FABRICATION.



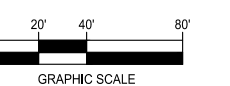
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STORM SEWER PLAN AND PROFILE



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

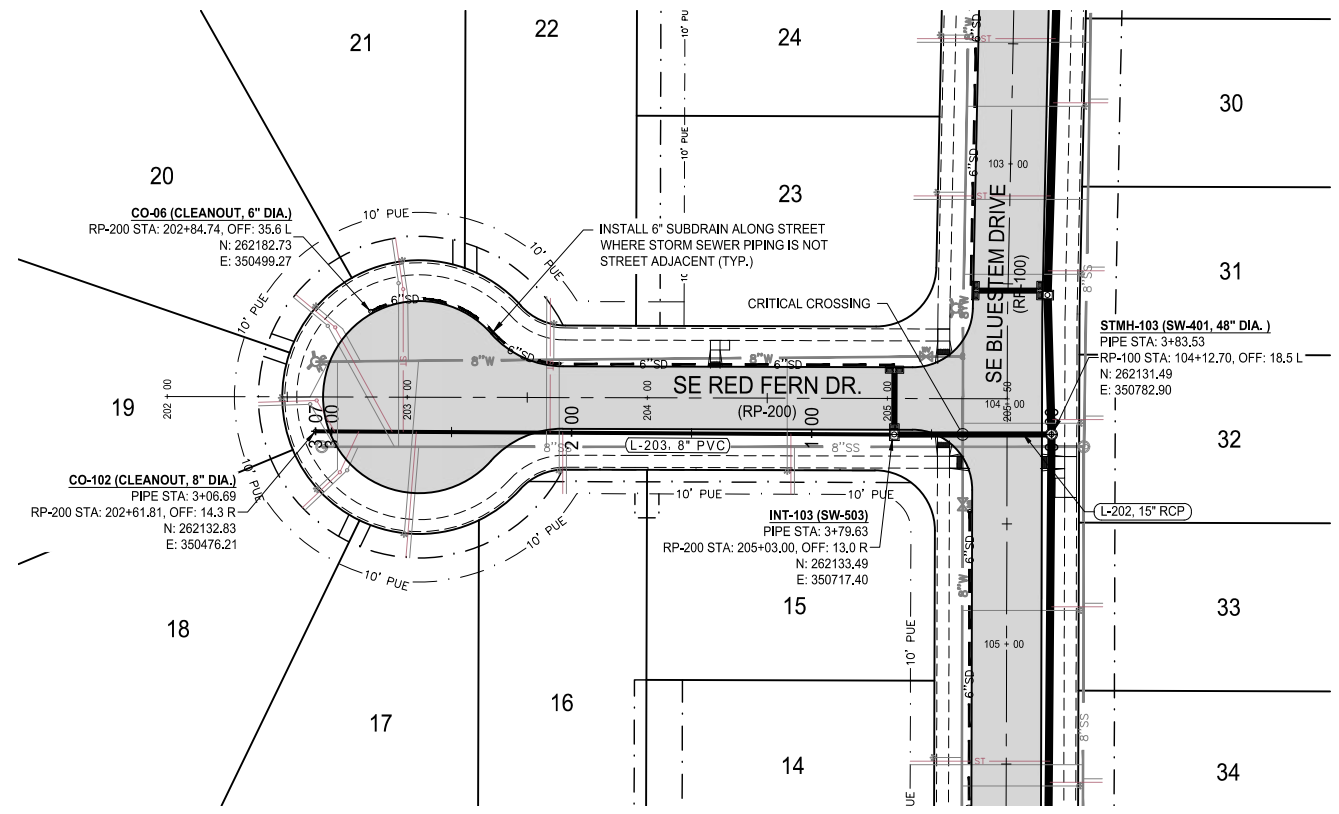
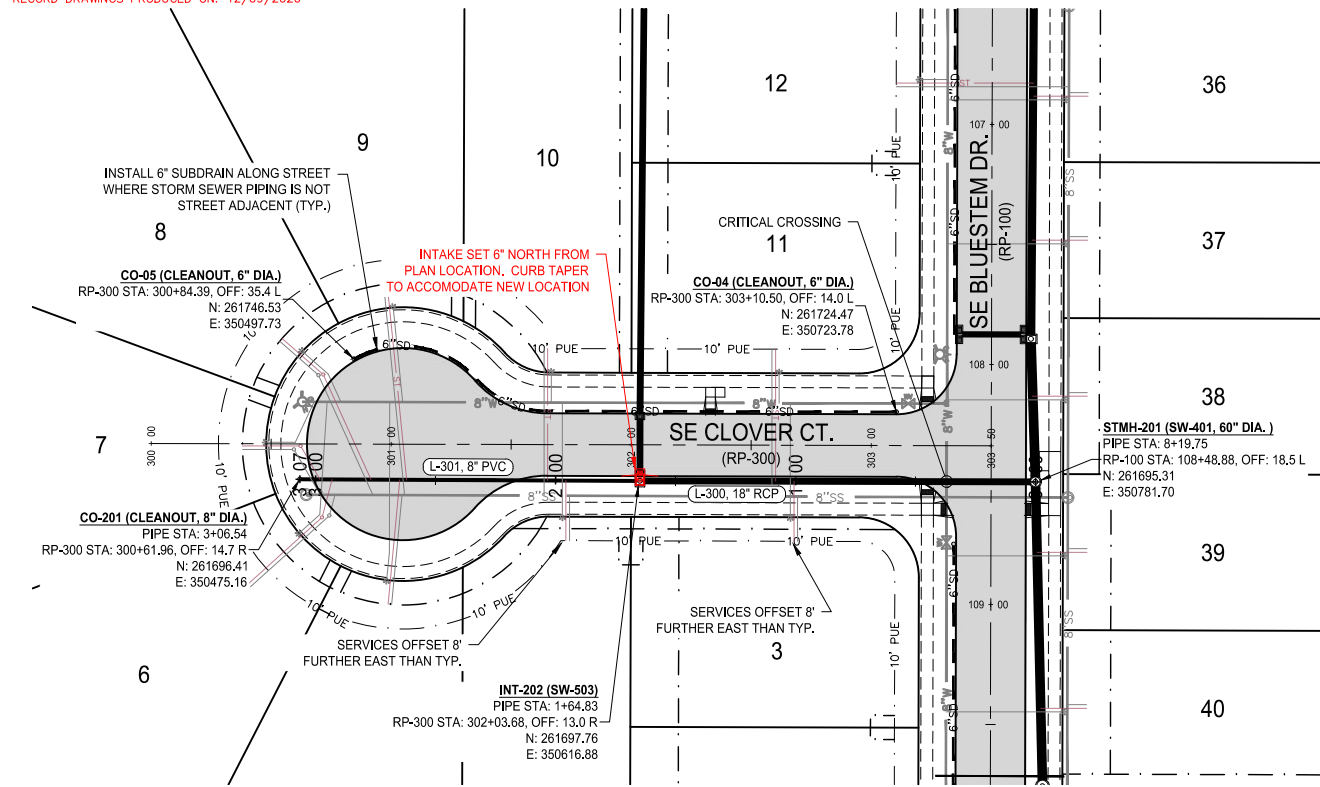
ENGINEER: J. BECKER
CHECKED BY: C. SMITH
DRAWN BY: J. BECKER
FIELD BOOK NO.:

DRAWING NO. ST-01
SHEET NO. 9 / 23

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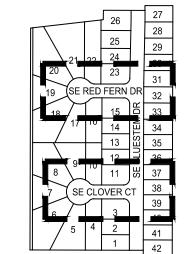
RECORD DRAWINGS PRODUCED ON: 12/09/2020



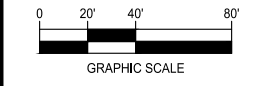
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STORM SEWER PLAN AND PROFILE



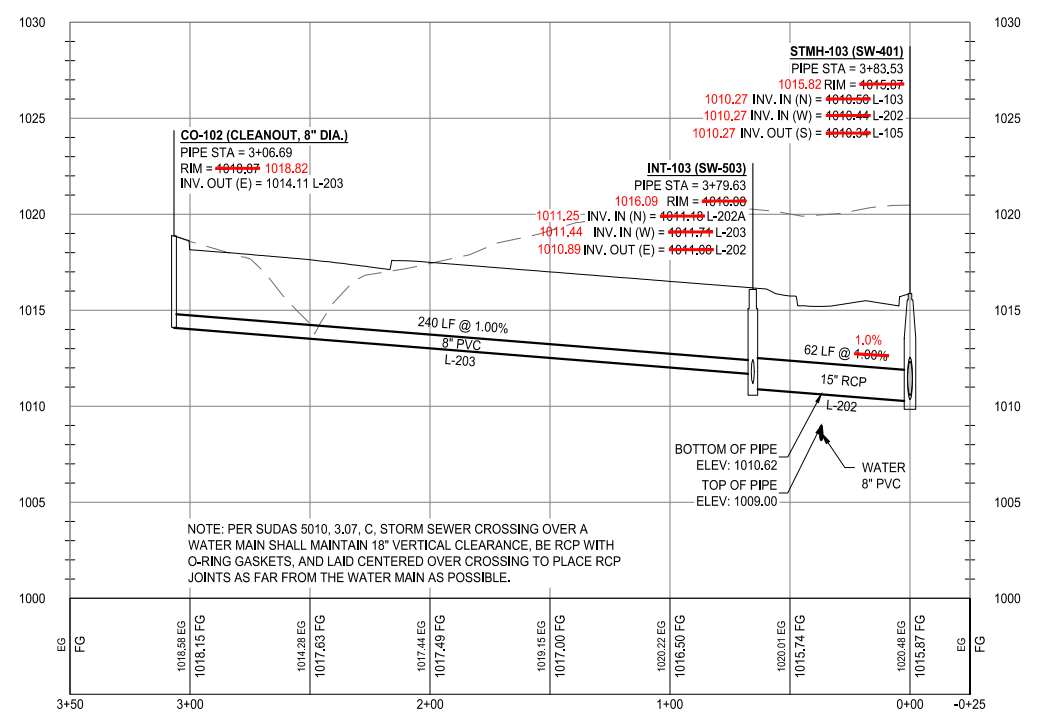
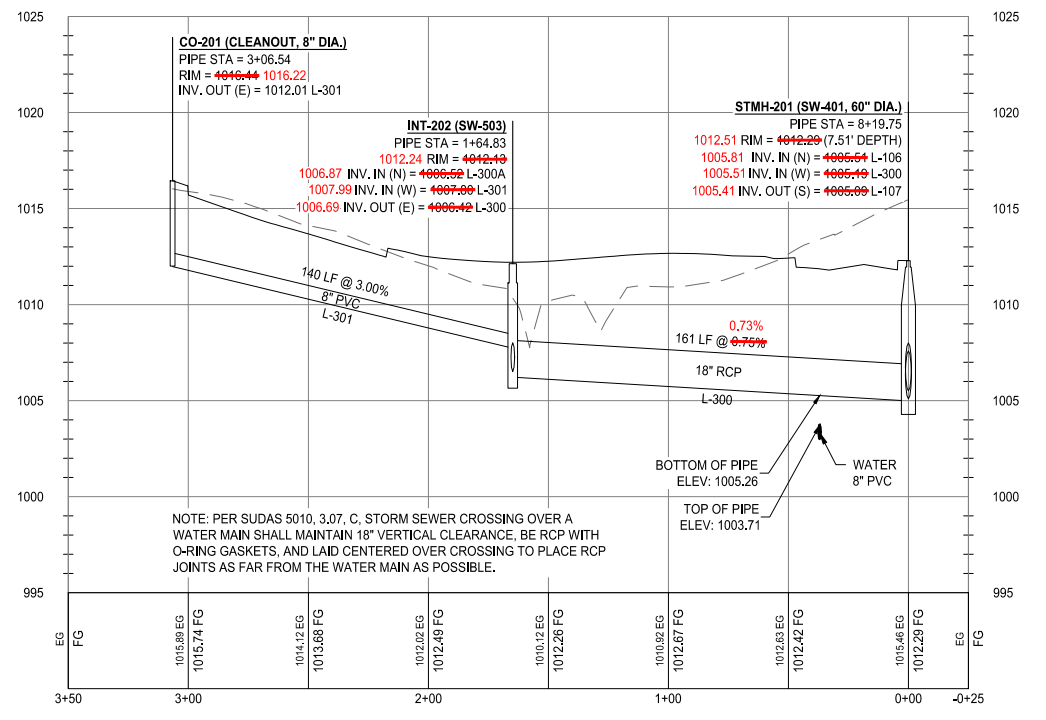
KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
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ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

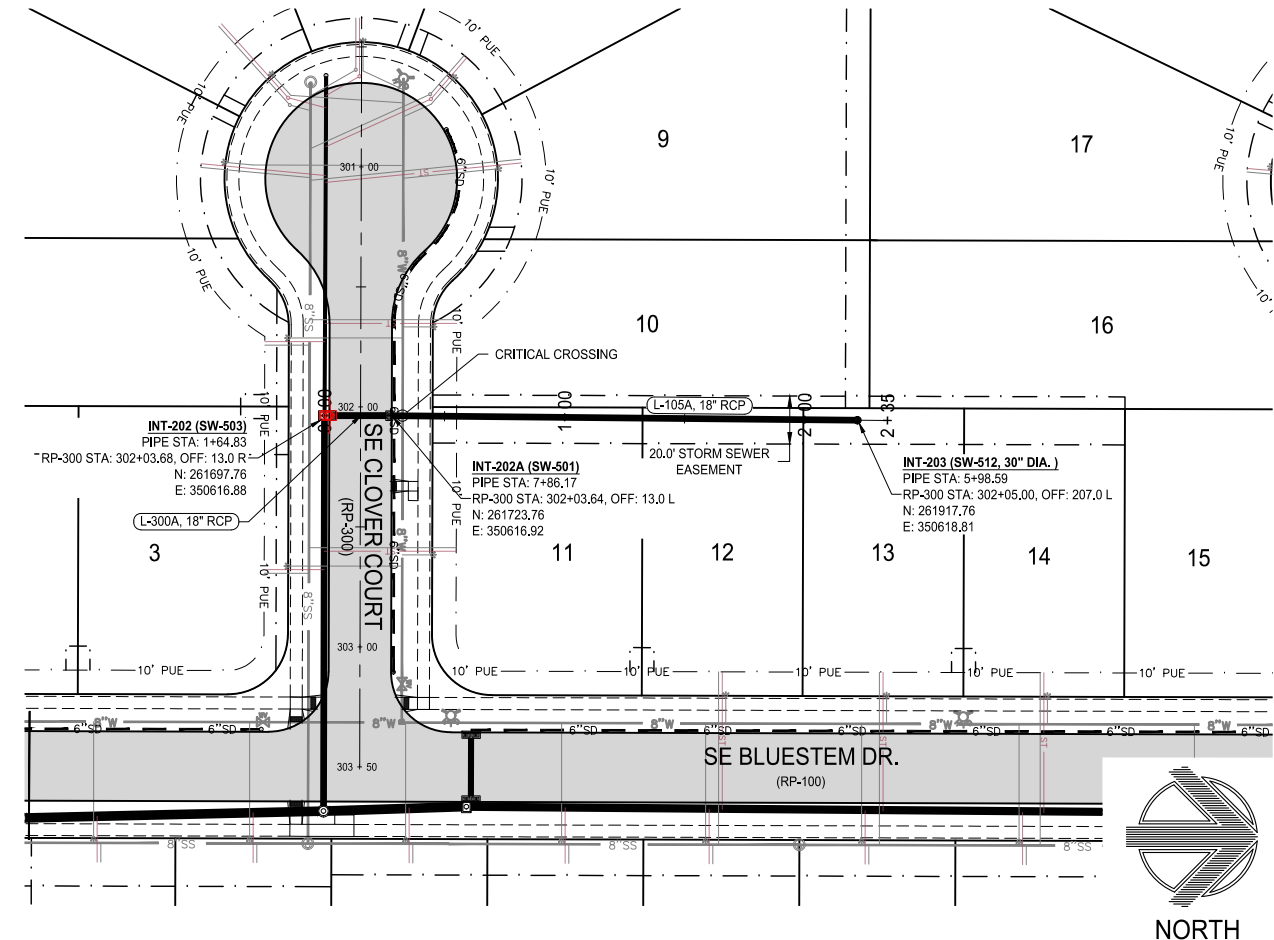
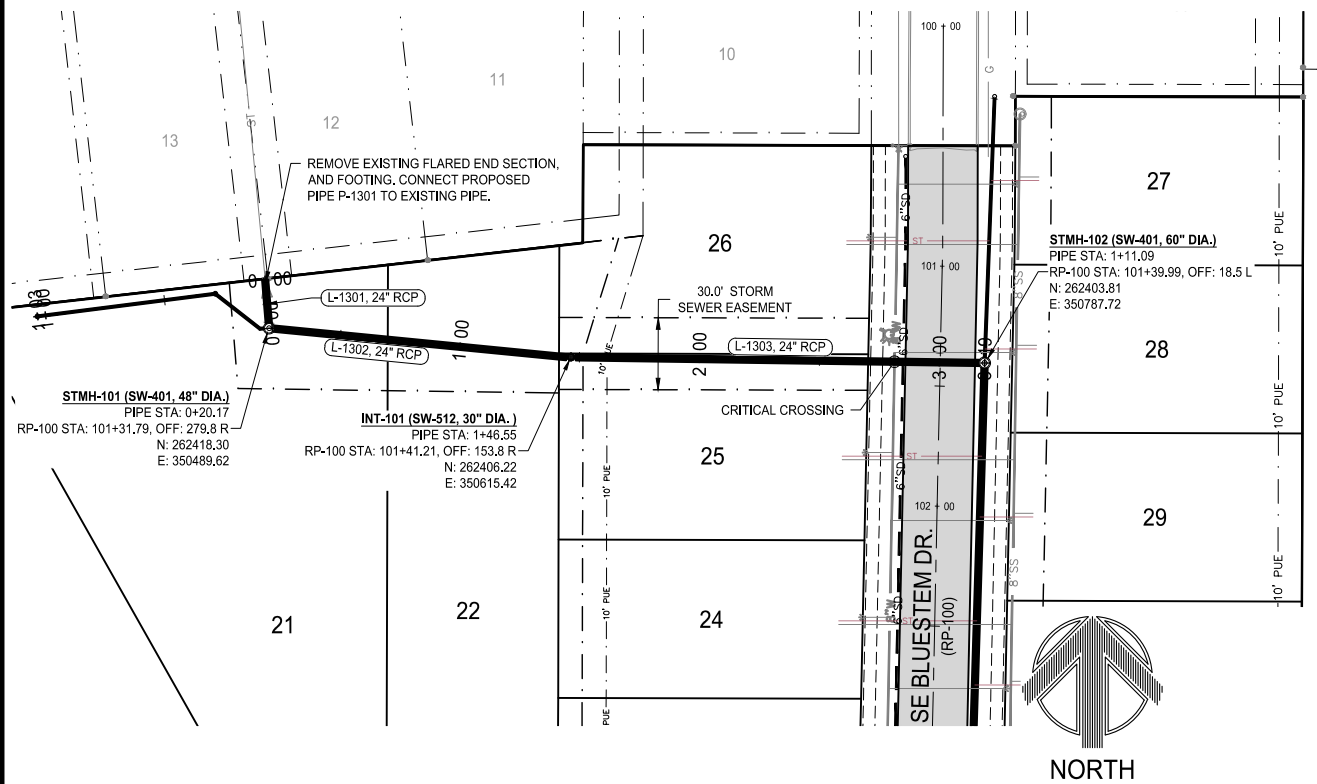
DRAWING NO. ST-02
SHEET NO. 10 / 23



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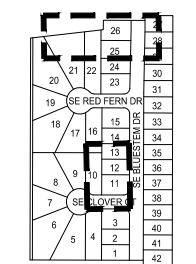
RECORD DRAWINGS PRODUCED ON: 12/09/2020



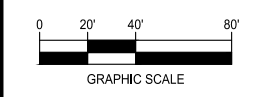
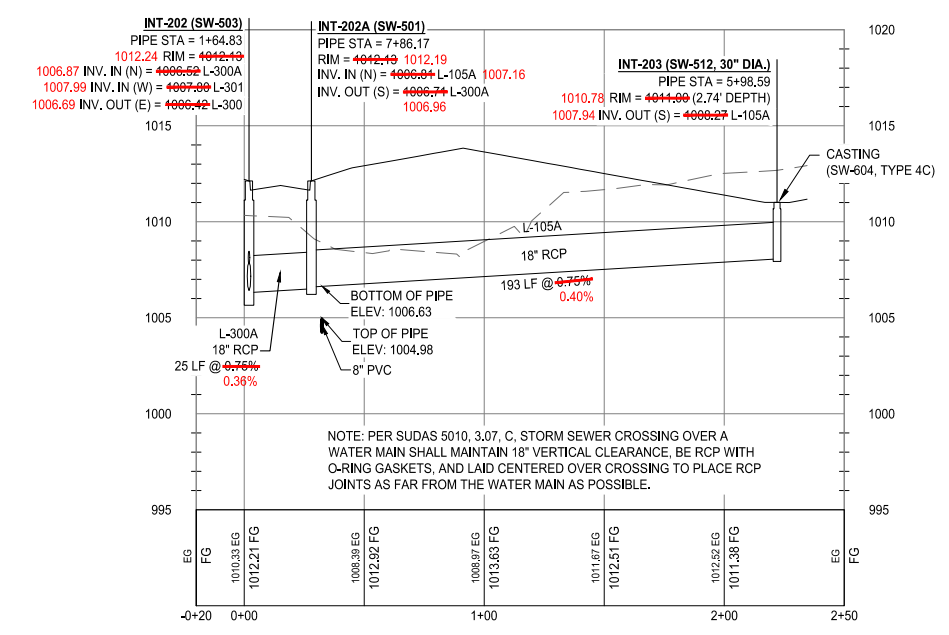
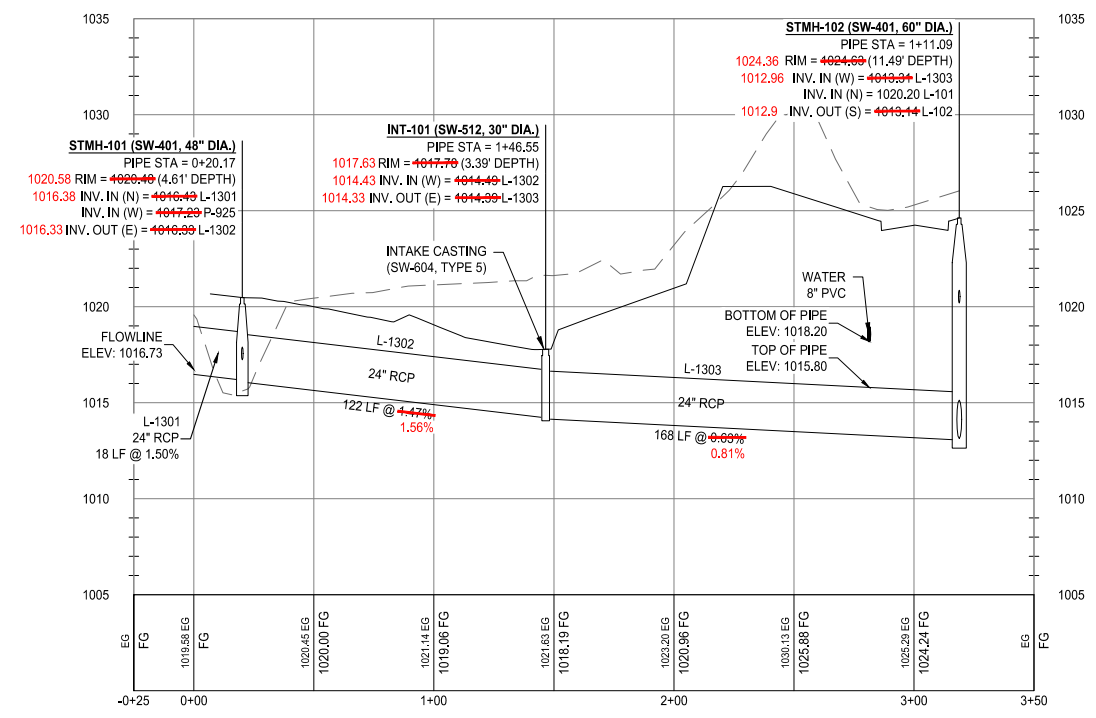
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STORM SEWER PLAN AND PROFILE



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

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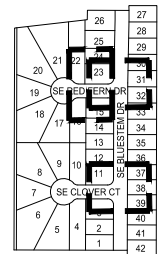
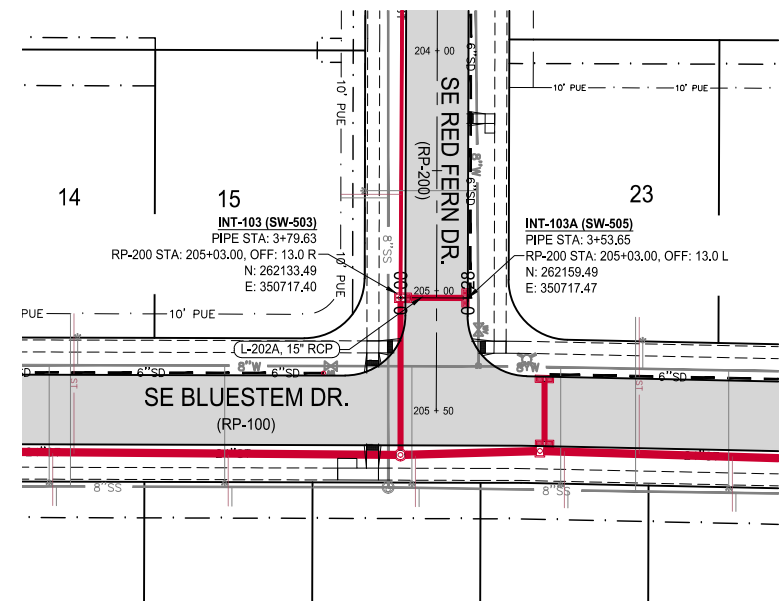
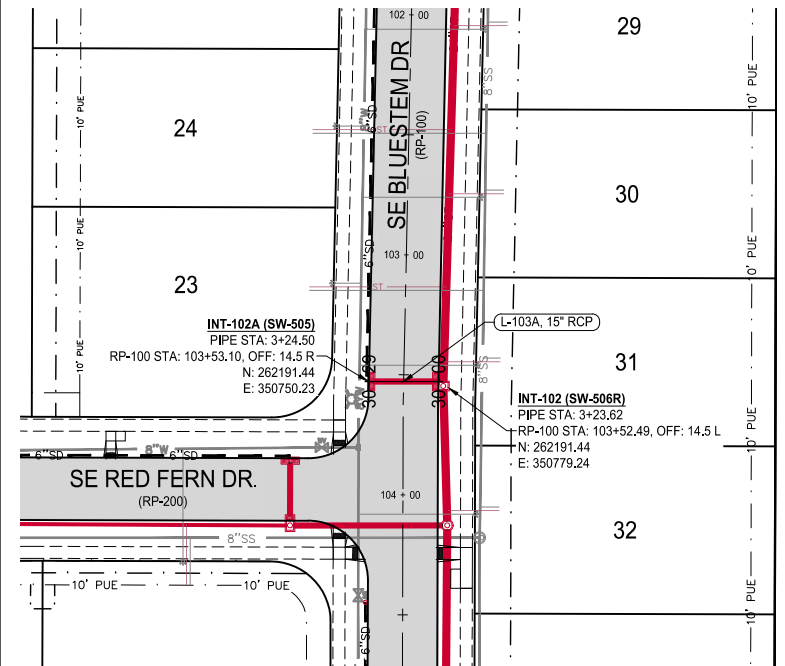
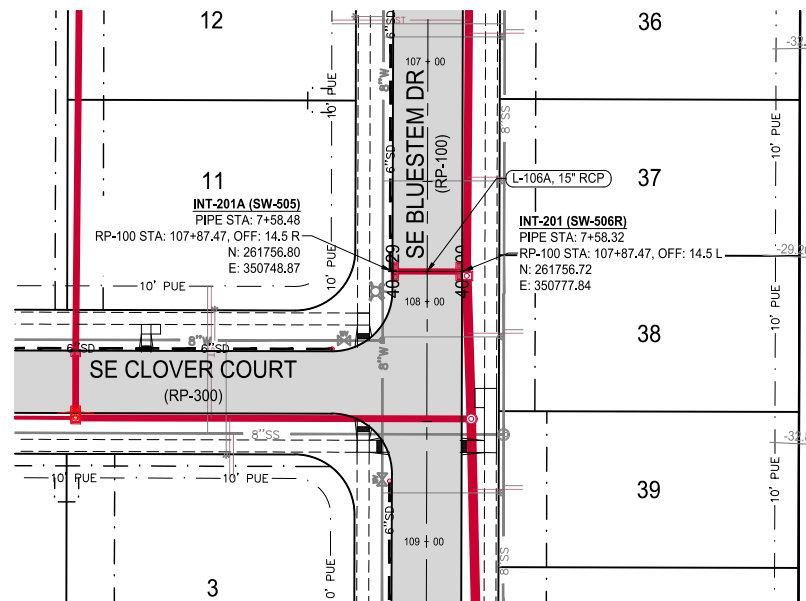
ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:
DRAWING NO.: ST-03
SHEET NO.: 11 / 23

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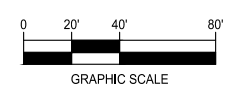
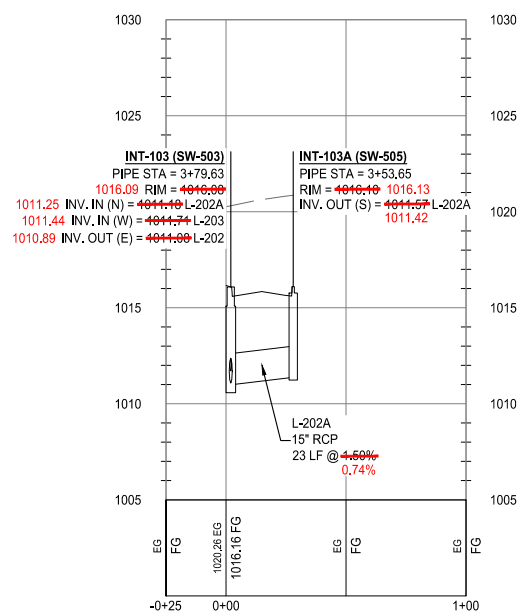
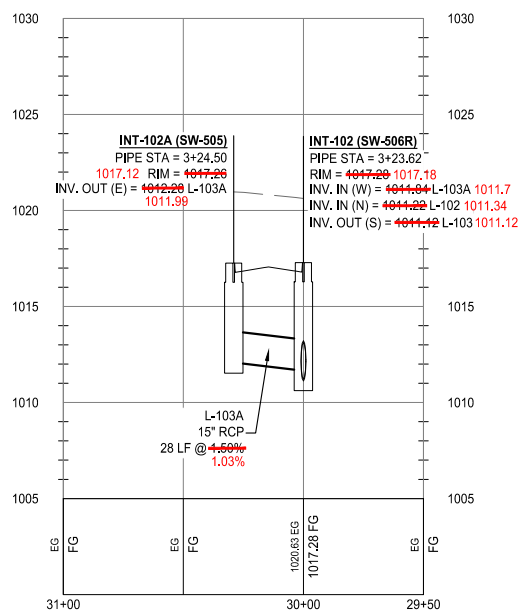
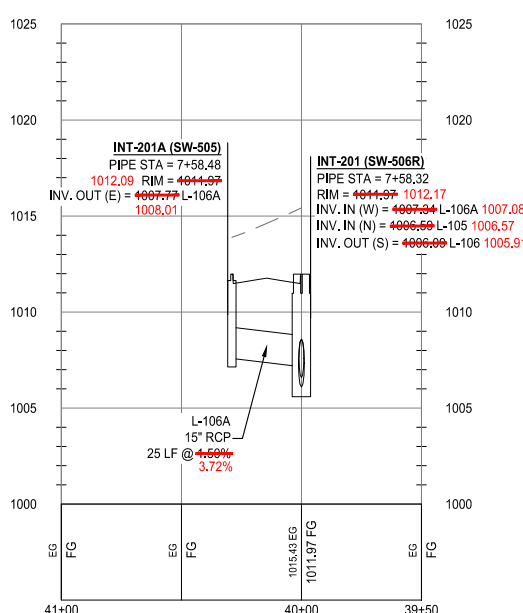
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RECORD DRAWINGS PRODUCED ON: 12/09/2020



STORM SEWER PLAN AND PROFILE



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
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ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

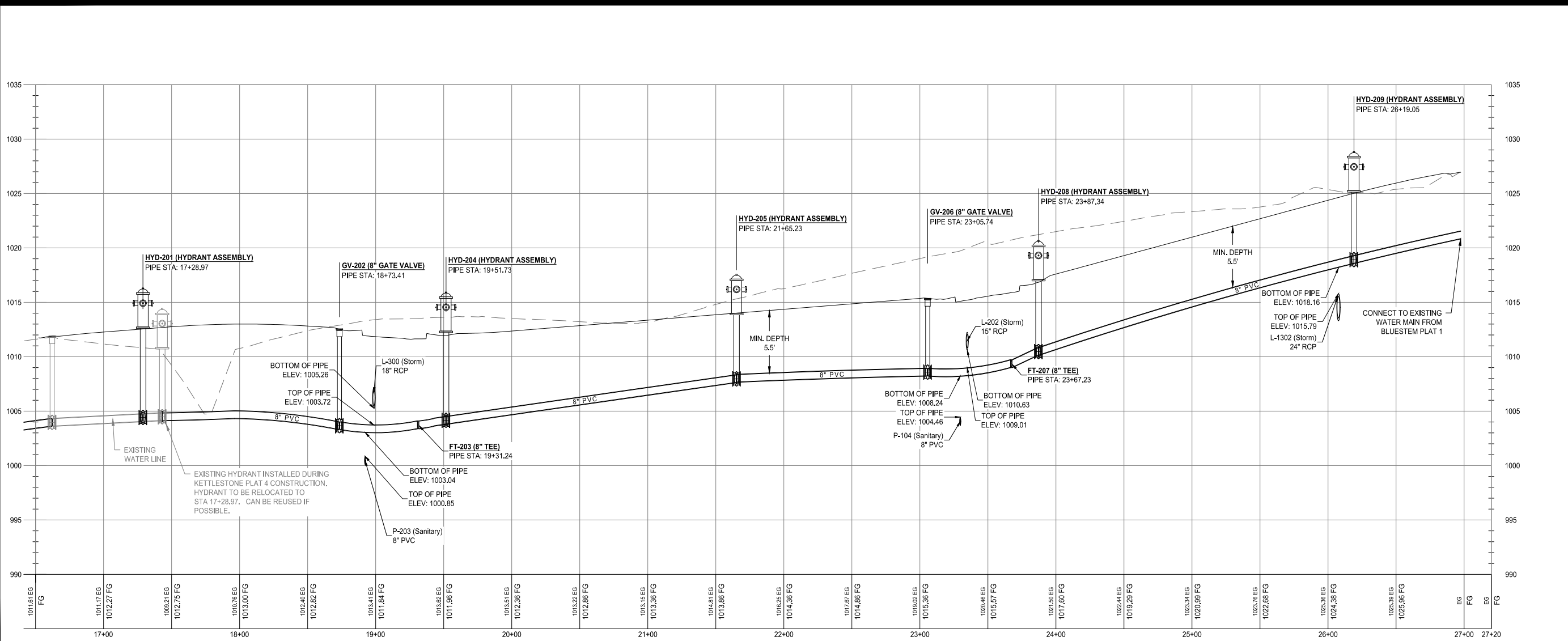
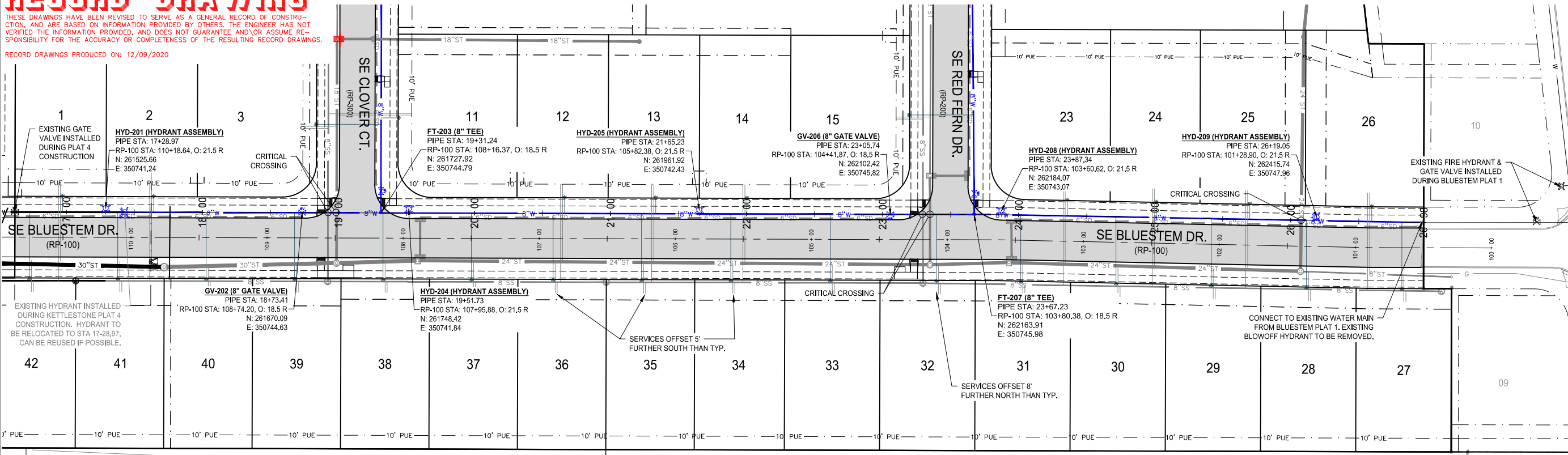
DRAWING NO. ST-04
SHEET NO. 12 / 23

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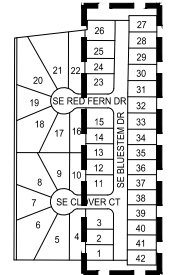
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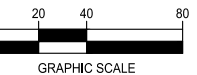
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WATER PLAN AND PROFILE



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
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12.09.2020 ASBUILT

ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

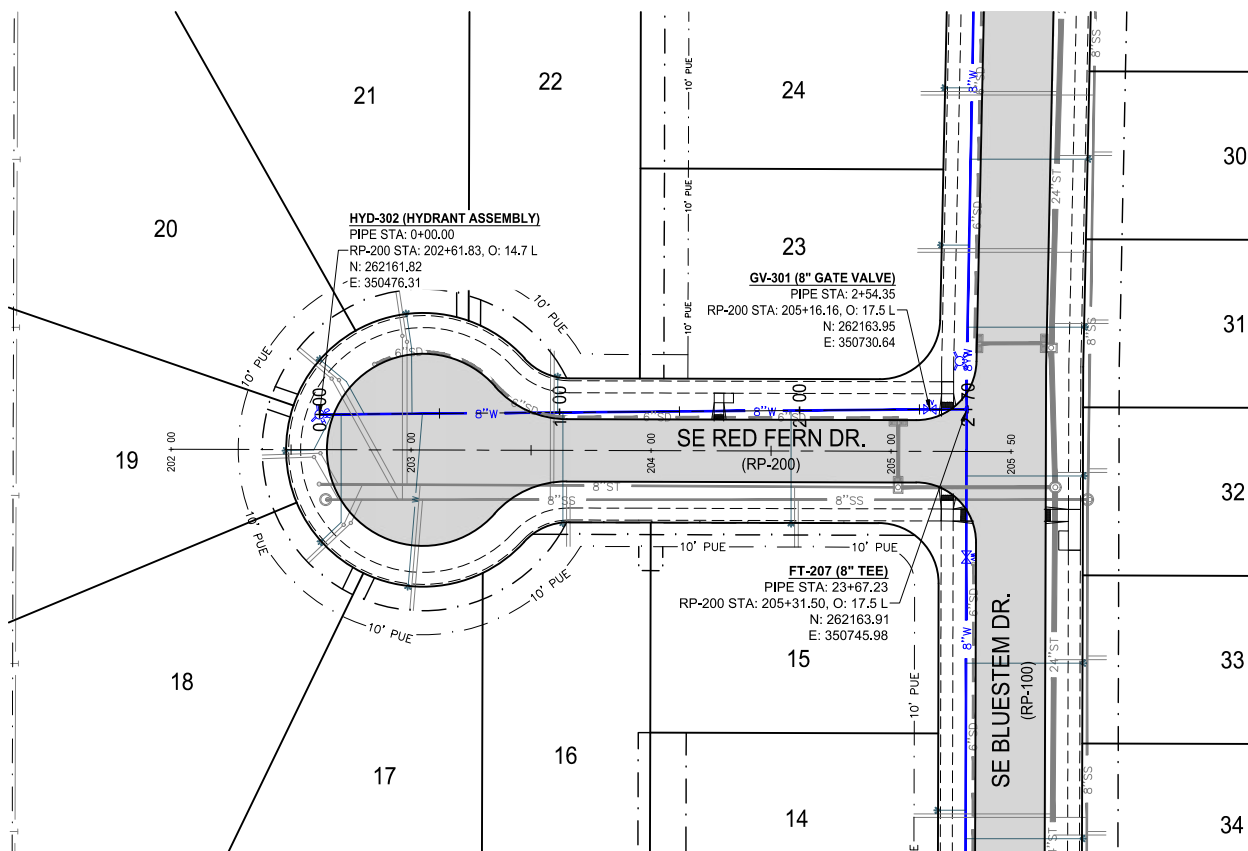
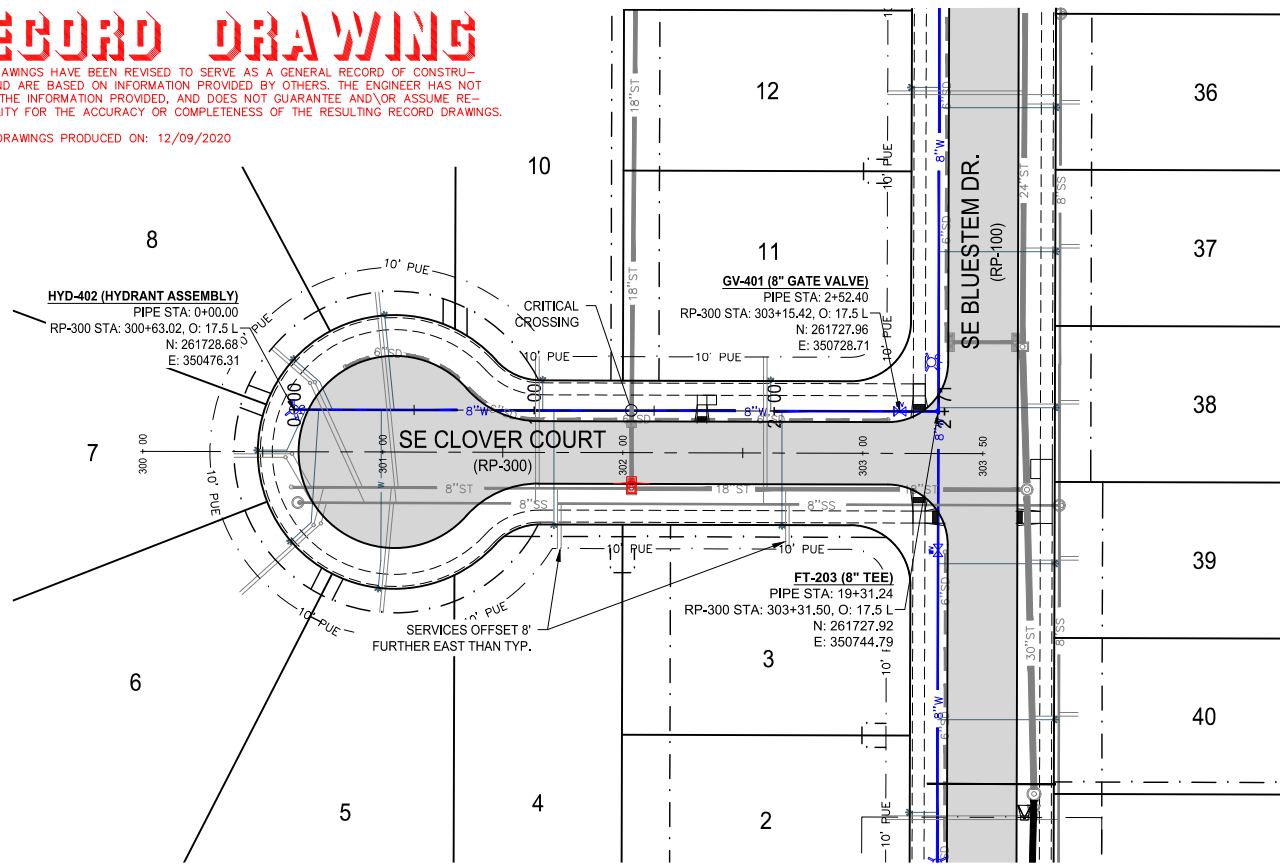
DRAWING NO. WA-01
SHEET NO. 13 / 23

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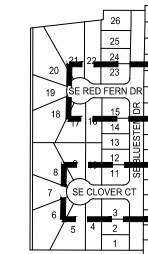
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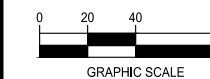
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WATER PLAN AND PROFILE



NORTH



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

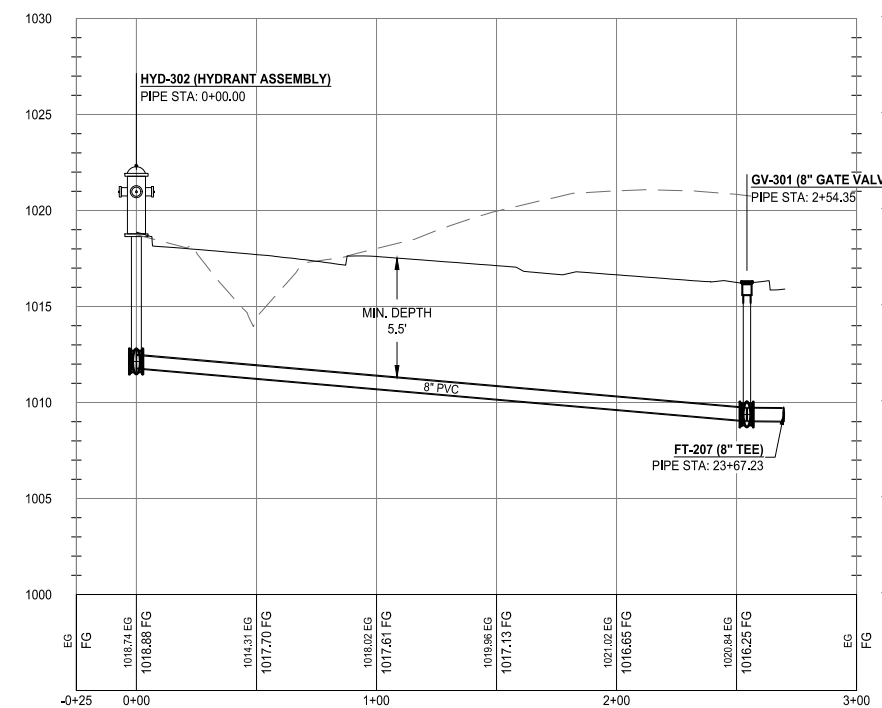
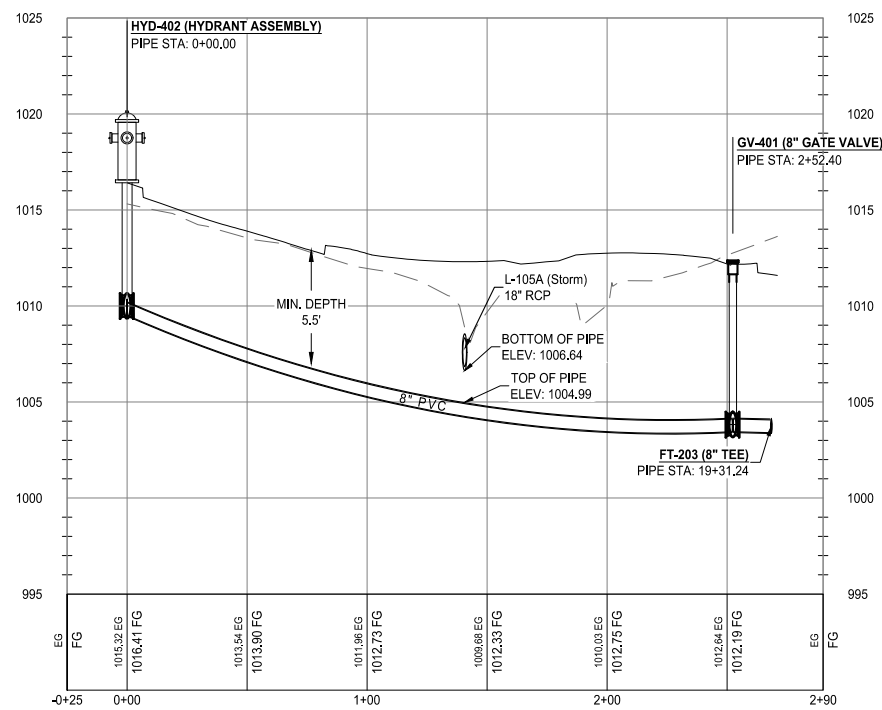
Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

DRAWING NO. SHEET NO.

WA-02 14 / 23

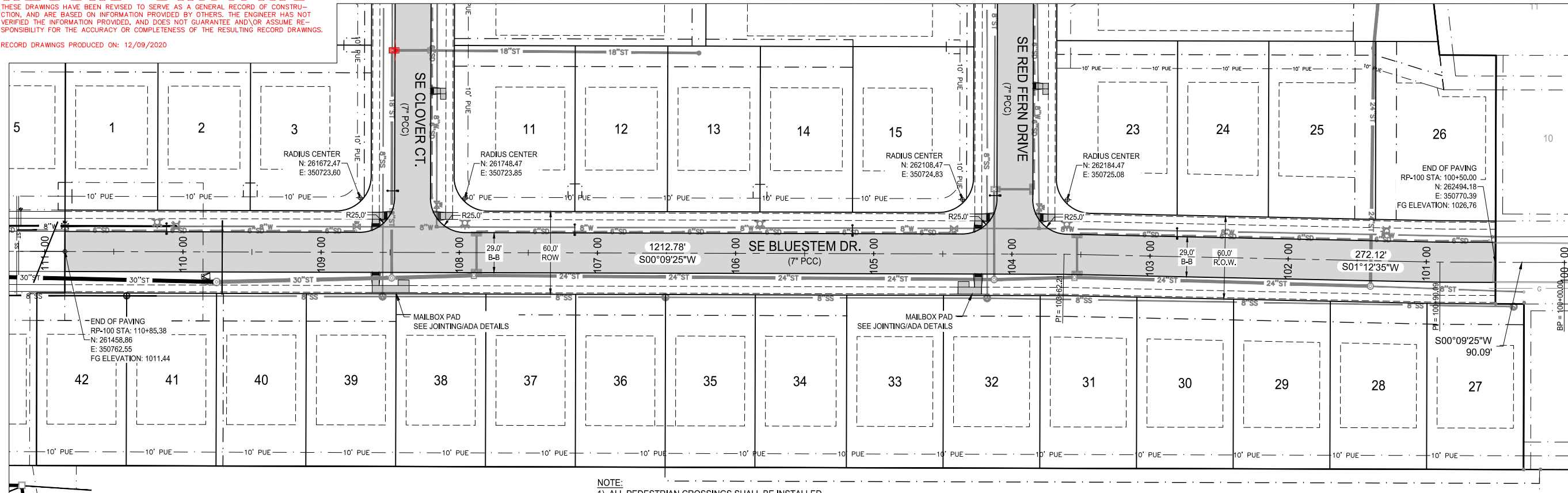


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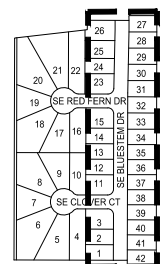
NOTE:
 1) ALL PEDESTRIAN CROSSINGS SHALL BE INSTALLED AS PART OF THE PUBLIC IMPROVEMENTS.
 2) ALL PEDESTRIAN RAMPS SHALL BE INSTALLED WITH TRUNCATED DOMES.



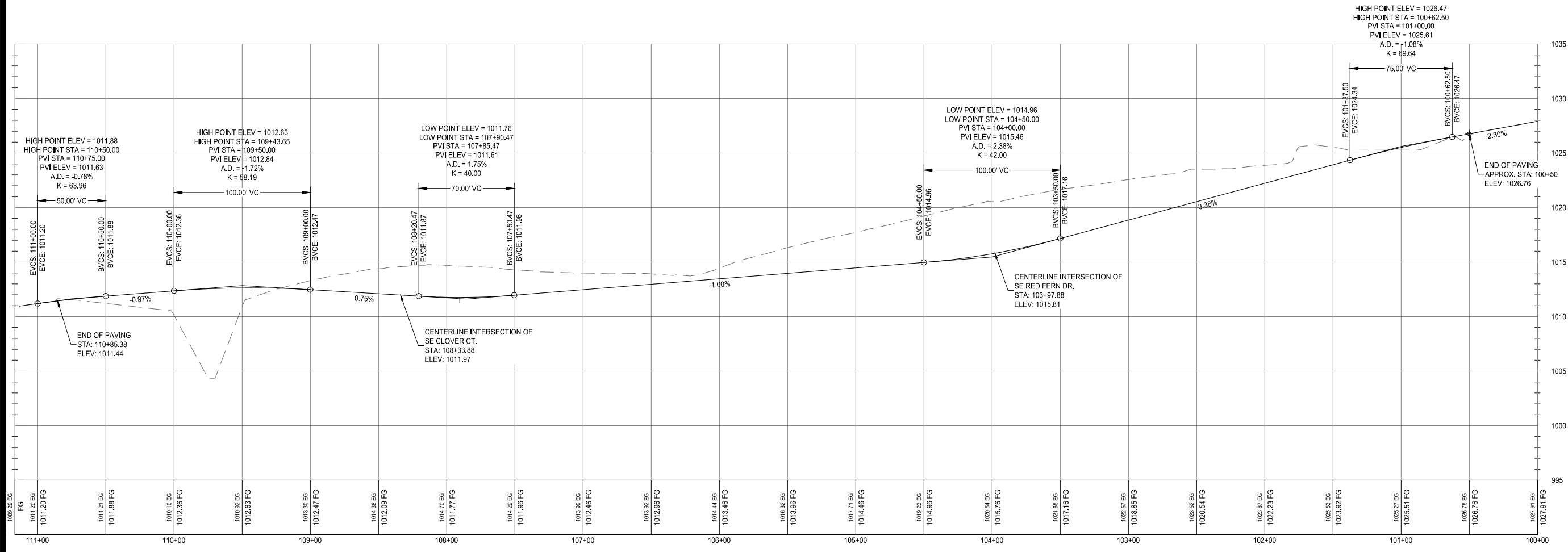
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PAVING PLAN AND PROFILE



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
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 JUNE 22, 2020

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 7.7.2020
 7.21.2020
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ENGINEER: J. BECKER
 DRAWN BY: J. BECKER

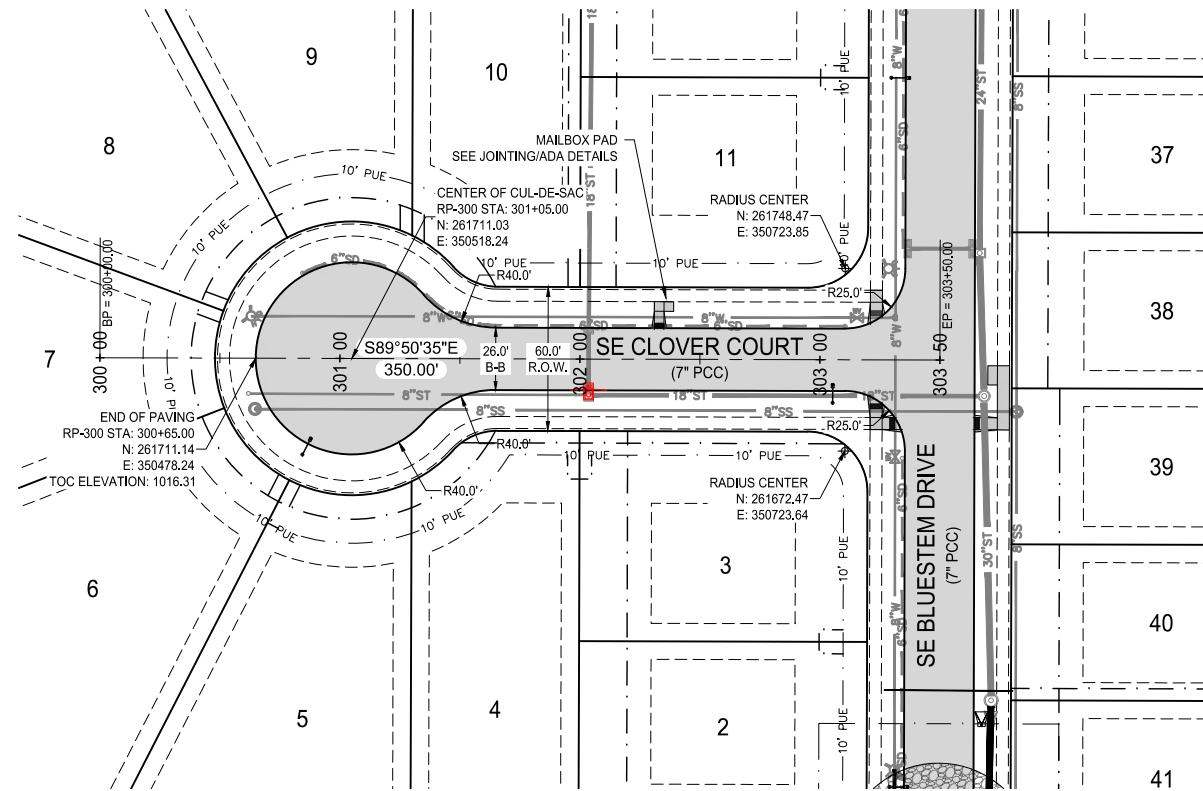
CHECKED BY: C. SMITH
 FIELD BOOK NO.:

DRAWING NO.: PA-01
 SHEET NO.: 15 / 23

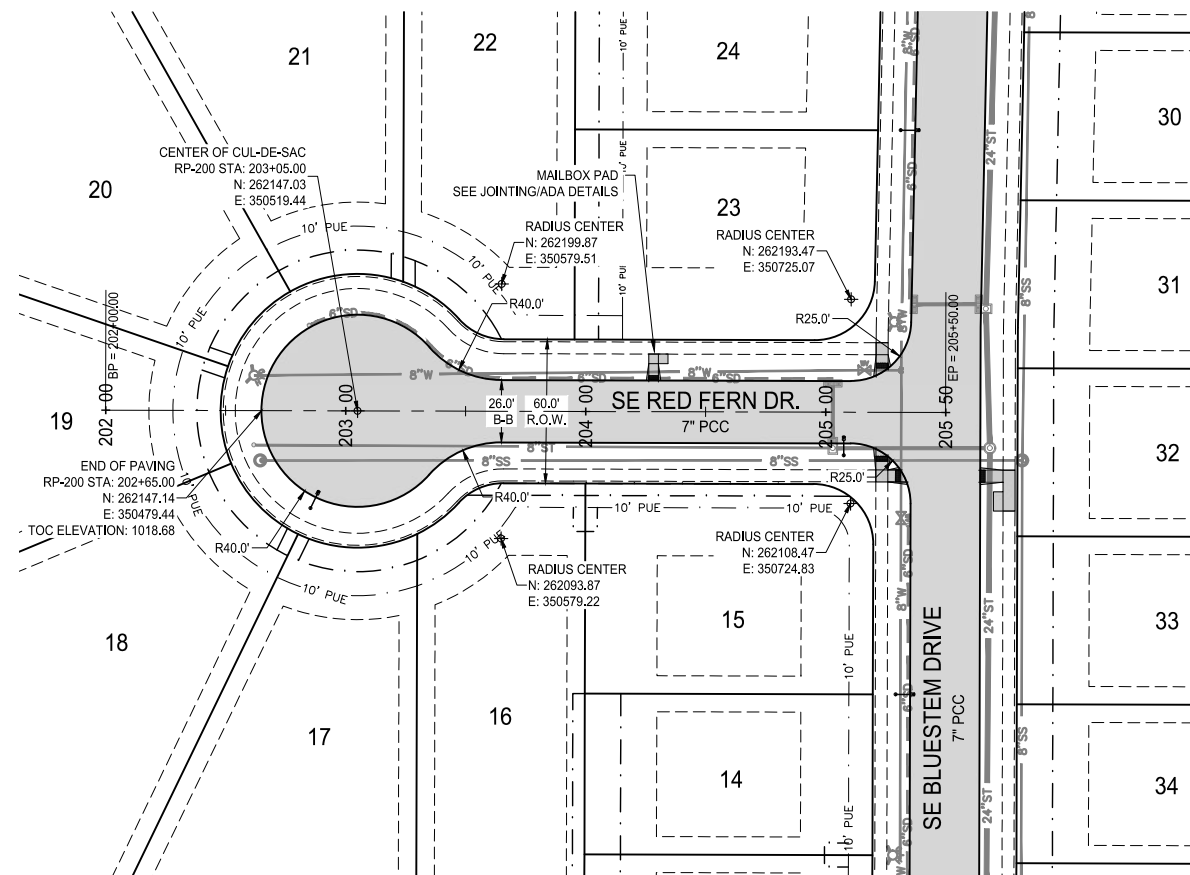
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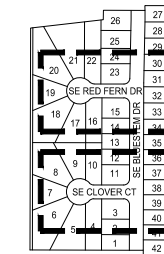
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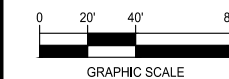
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PAVING PLAN AND PROFILE



NORTH



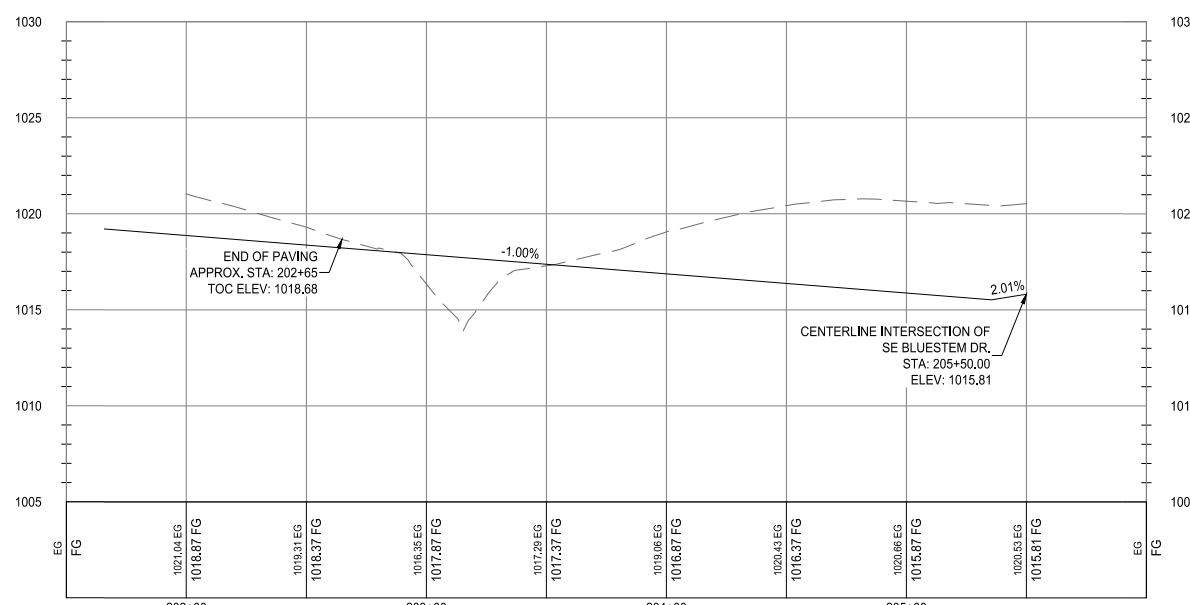
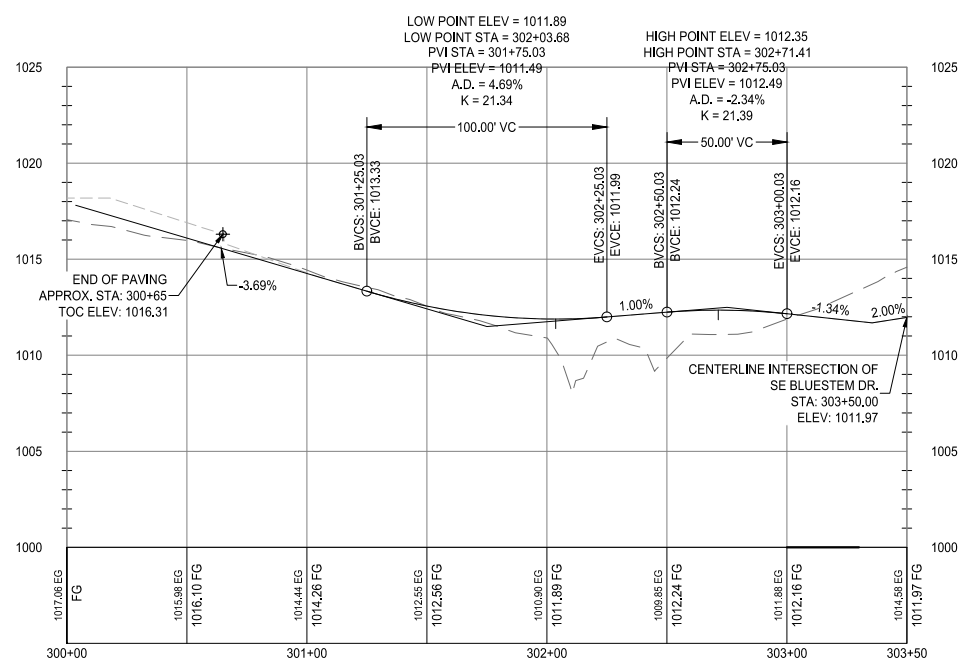
KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 AS BUILT

ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

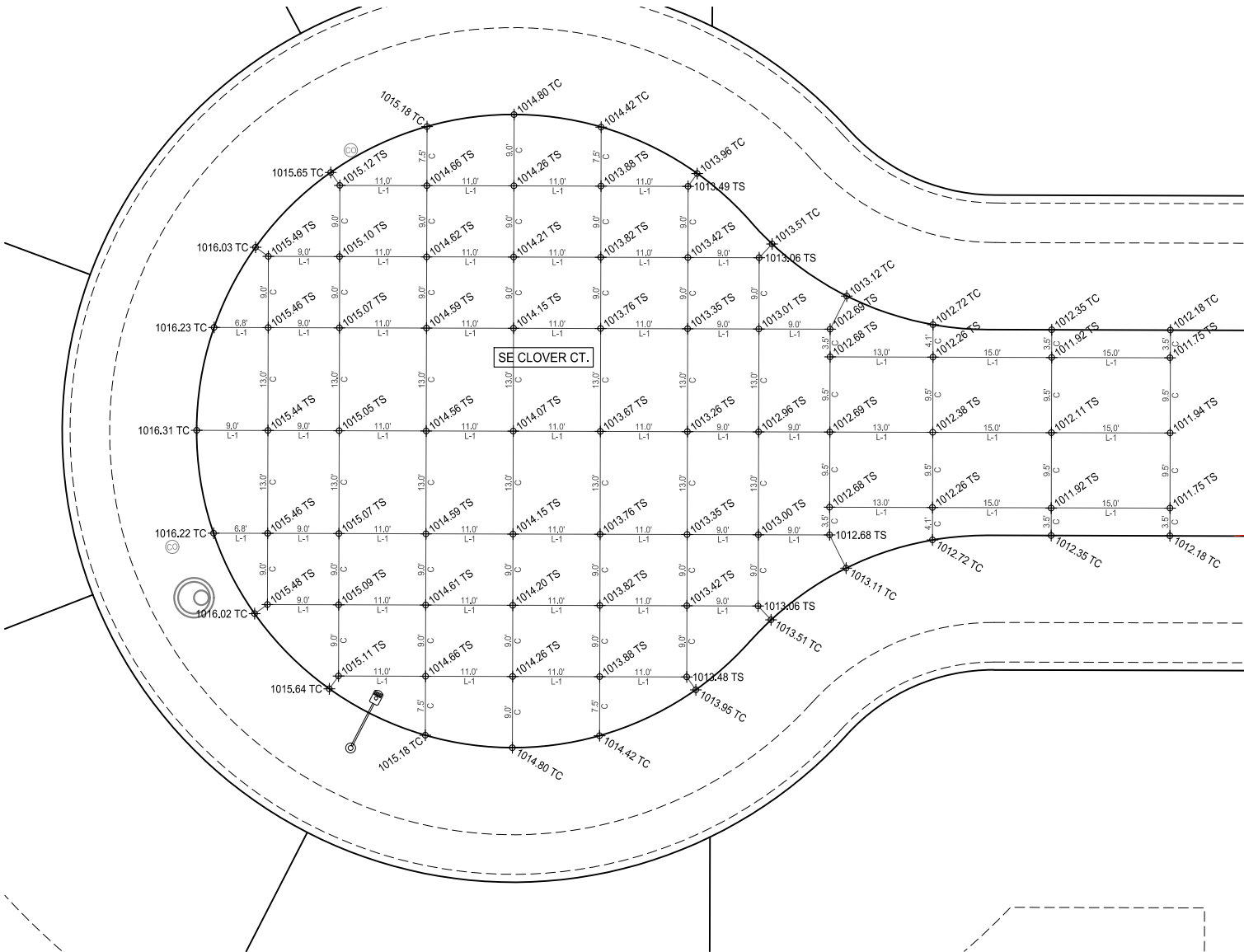
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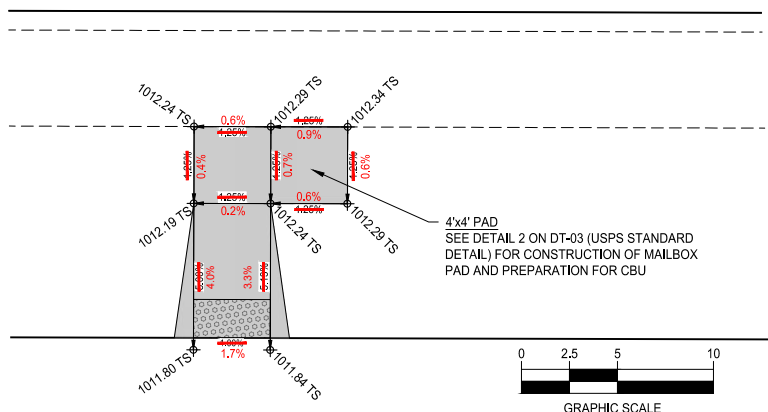
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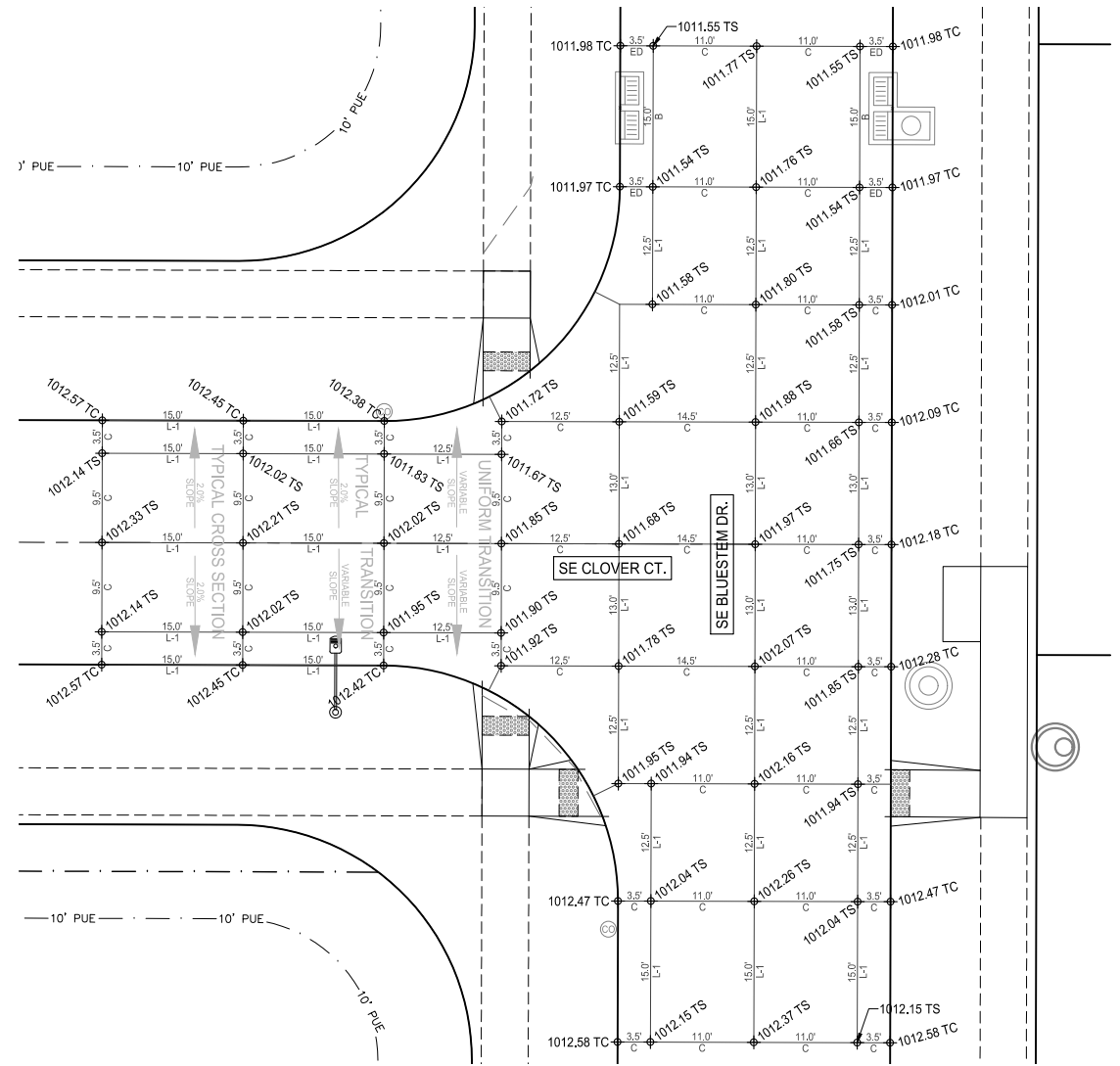


1 JOINT DETAIL - SE CLOVER CT CUL-DE-SAC

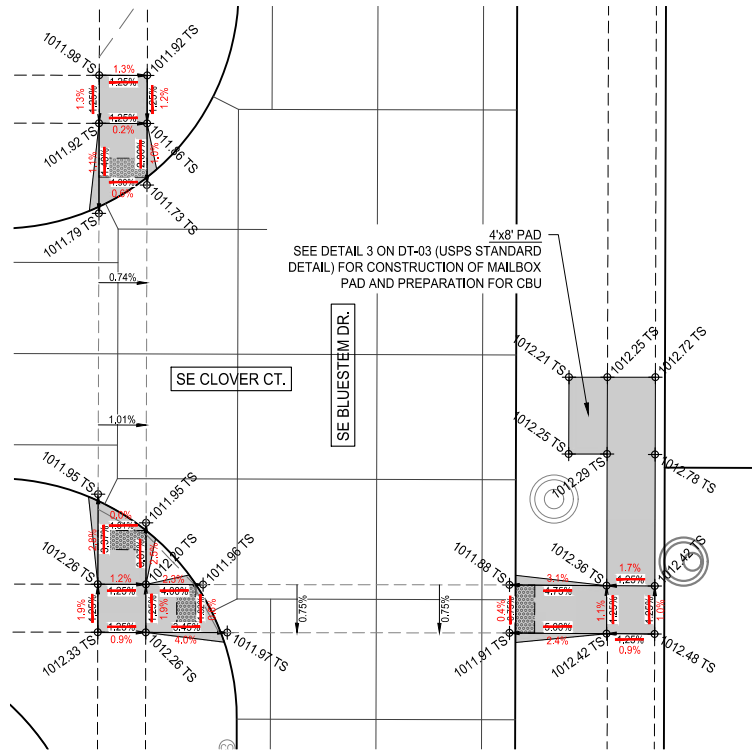


3 ADA DETAIL - SE CLOVER CT. MAILBOX

- ADA NOTES AND DISCUSSIONS:**
1. ENSURE GRADE BREAKS AT TOPS OF RAMPS ARE PERPENDICULAR TO RAMP DIRECTION.
 2. IT MAY BE PRUDENT TO HAVE INSPECTION STAFF PRESENT AFTER FORMS ARE SET AND BEFORE CONCRETE IS POURED TO VERIFY THE RAMPS AS CONSTRUCTED WOULD MEET ADA STANDARDS, SLOPES. THUS COMMON SQUARE ELEVATIONS, ARE BASED ON DESIGN ELEVATIONS OF PROPOSED PAVEMENT. GRADES AND ELEVATIONS SHOWN MAY NEED ADJUSTED BASED ON CURB/GUTTER AS-BUILT ELEVATIONS TO MAINTAIN ADA COMPLIANCE.



2 JOINTING DETAIL - SE BLUESTEM DRIVE AND SE CLOVER CT.



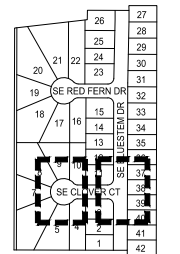
4 ADA DETAIL - SE BLUESTEM DRIVE AND SE CLOVER CT.



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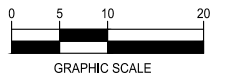
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JOINTING DETAILS AND ADA DESIGN



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KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
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JUNE 22, 2020

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7.7.2020
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ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

DRAWING NO. JT-01
SHEET NO. 17 / 23

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RECORD DRAWING

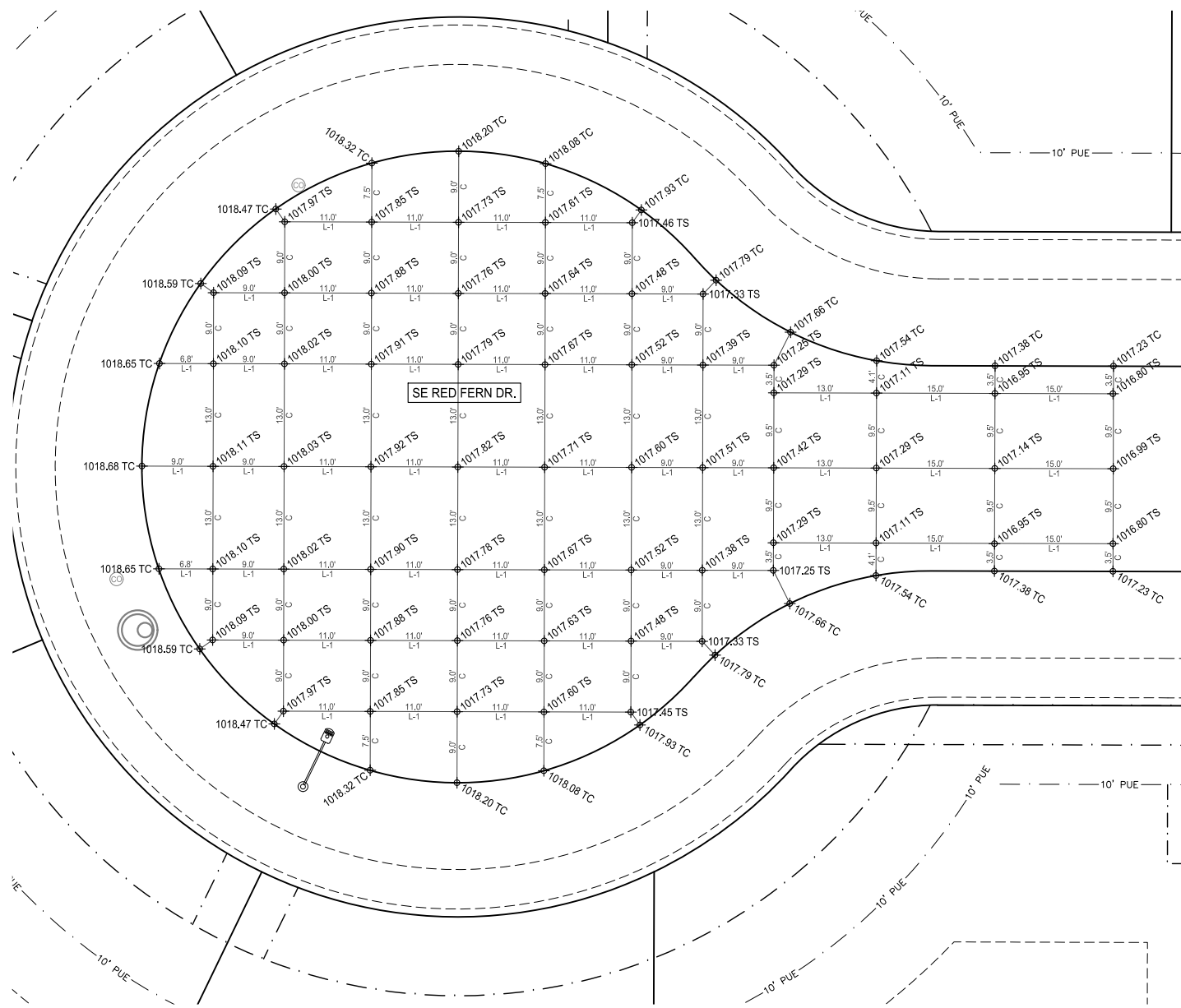
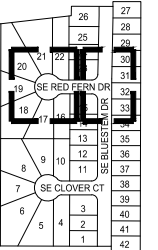
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RECORD DRAWINGS PRODUCED ON: 12/09/2020

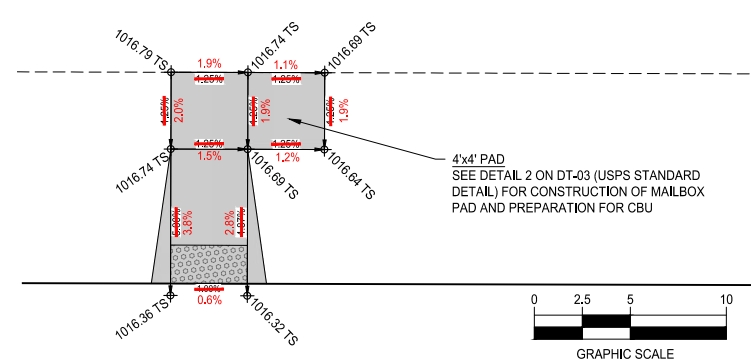
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Clive, Iowa 50325
515-964-1229
fax 515-964-2370

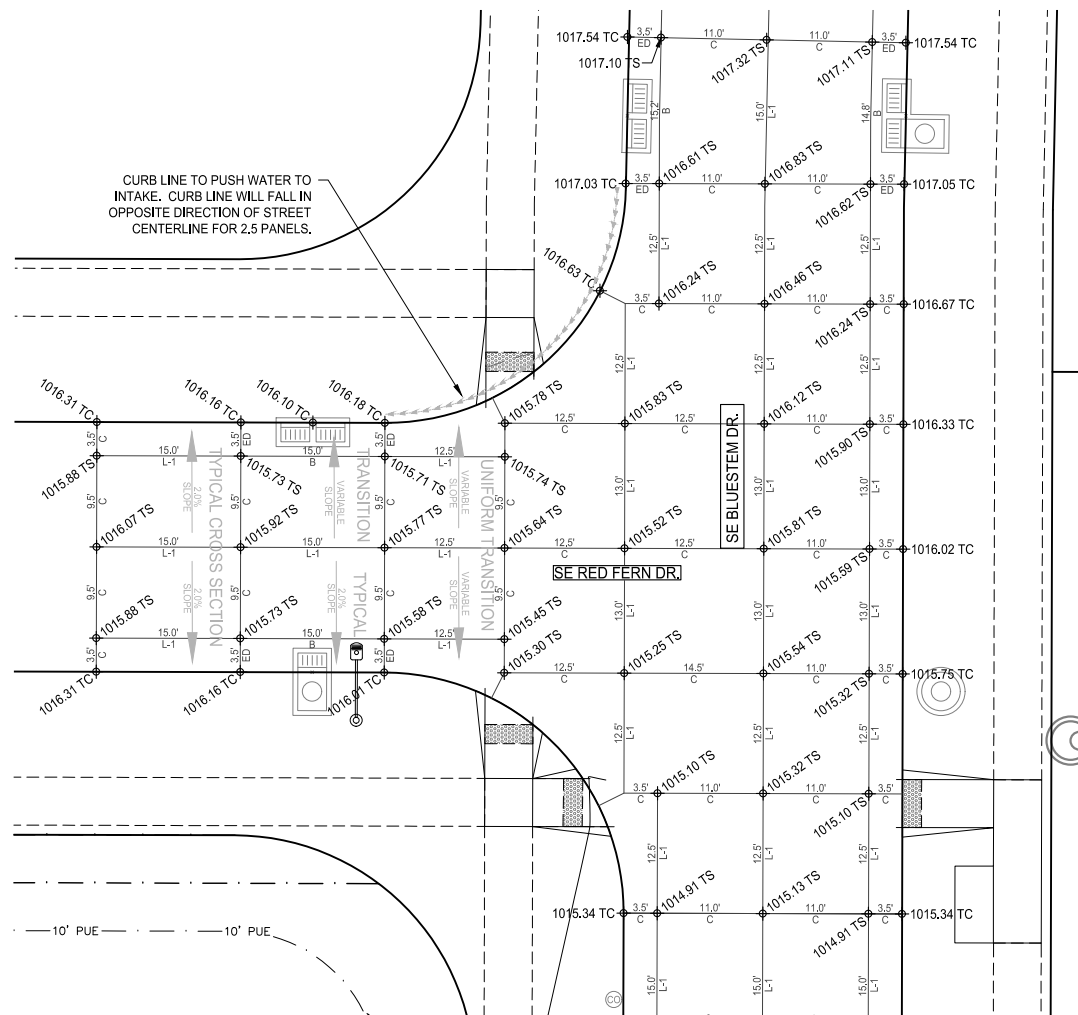
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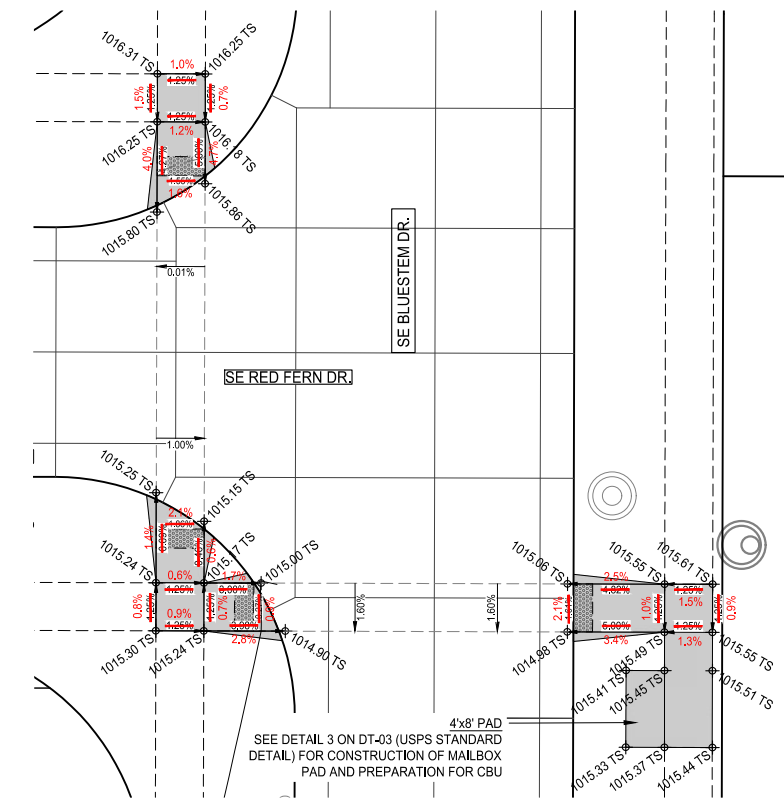
1 JOINT DETAIL - SE RED FERN DR. CUL-DE-SAC



3 ADA DETAIL - SE RED FERN DR. MAILBOX



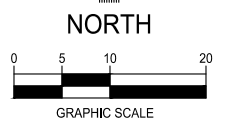
2 JOINTING DETAIL - SE BLUESTEM DR & SE RED FERN DR.



4 ADA DETAIL - BLUESTEM DR & SE RED FERN DR.

- ADA NOTES AND DISCUSSIONS:**
1. ENSURE GRADE BREAKS AT TOPS OF RAMPS ARE PERPENDICULAR TO RAMP DIRECTION.
 2. IT MAY BE PRUDENT TO HAVE INSPECTION STAFF PRESENT AFTER FORMS ARE SET AND BEFORE CONCRETE IS POURED TO VERIFY THE RAMPS AS CONSTRUCTED WOULD MEET ADA STANDARDS, SLOPES. THIS COMMON SQUARE ELEVATIONS, ARE BASED ON DESIGN ELEVATIONS OF PROPOSED PAVEMENT. GRADES AND ELEVATIONS SHOWN MAY NEED ADJUSTED BASED ON CURB/GUTTER AS-BUILT ELEVATIONS TO MAINTAIN ADA COMPLIANCE.
 - 3.

JOINTING DETAILS AND ADA DESIGN



KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

ENGINEER
J. BECKER

DRAWN BY
J. BECKER

CHECKED BY
C. SMITH

FIELD BOOK NO.

DRAWING NO.
JT-02

SHEET NO.
18 / 23

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RECORD DRAWING

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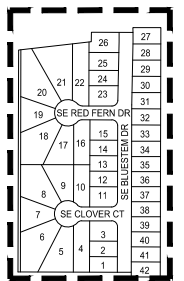
RECORD DRAWINGS PRODUCED ON: 12/09/2020



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fax 515-964-2370

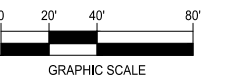
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LIGHTING PLAN AND CUT SHEETS



NORTH



GRAPHIC SCALE

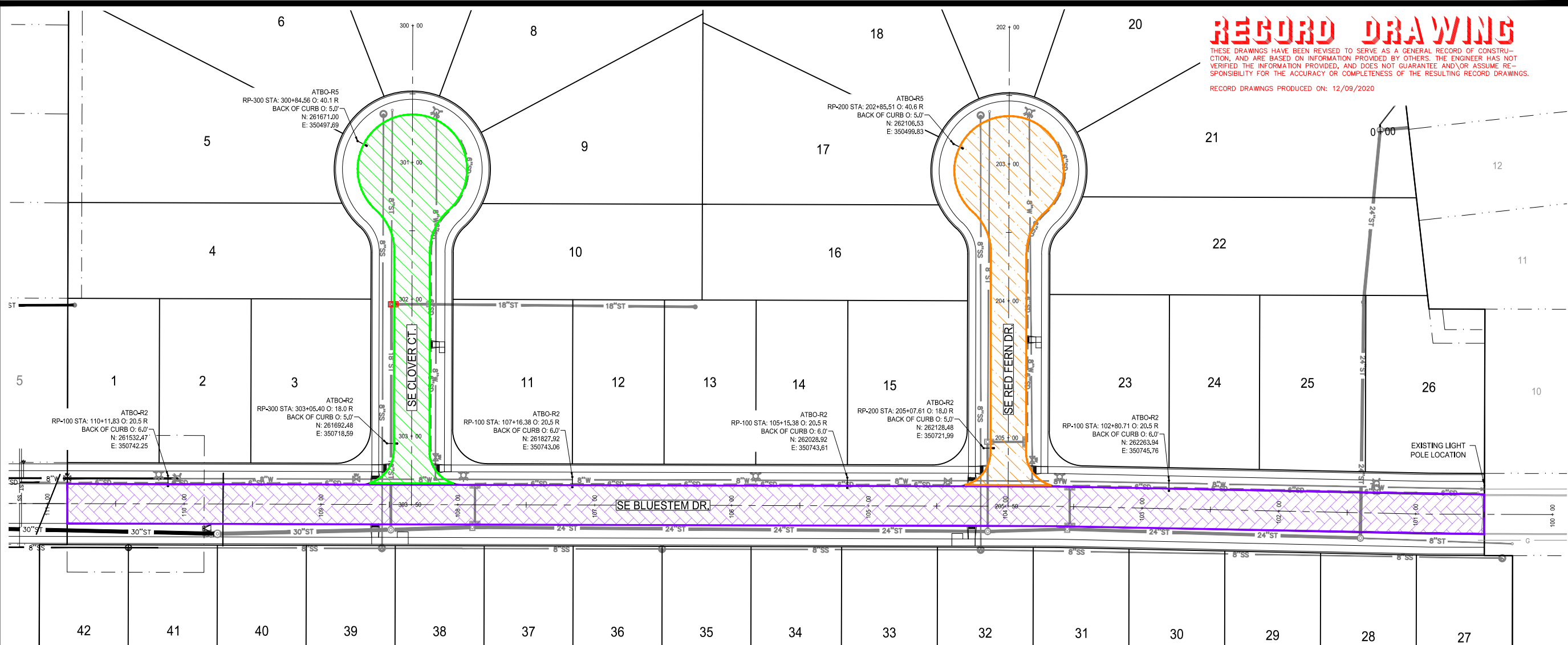
KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

ENGINEER
J. BECKER
CHECKED BY
C. SMITH

DRAWN BY
J. BECKER
FIELD BOOK NO.
-
DRAWING NO.
LI-01
SHEET NO.
19 / 23

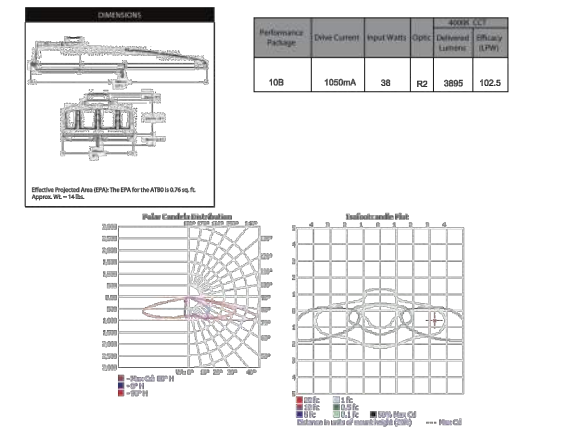


Autobahn Series ATB0 Roadway Lighting

ORDERING INFORMATION

ATB0	20BLEDE53	MVOLT	R2
Series	Performance Packages	Voltage	Optics
ATB0 Autobahn LED Roadway, Small	20BLEDE53 208 Chips, 525mA Driver	MVOLT Multi-volt; 120-277V	R2 Roadway Type II

BK / XL	RFD200704	RFD Description
MISC	RFD200704	100W HPS NEMA label, "I" detail mounted below NEMA label and Mark Carton; MEC Item ID 323-332791
BK Black		
XL Not CSA listed		



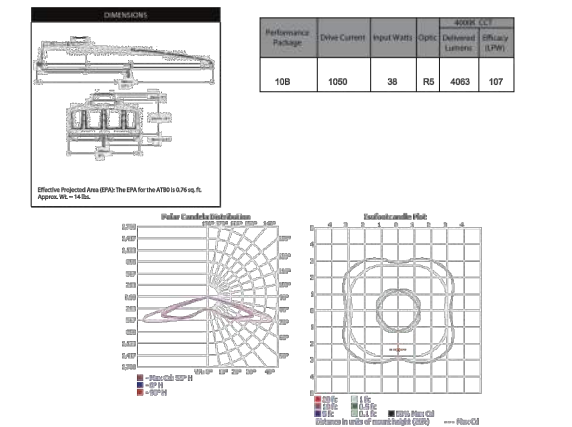
American Electric Lighting
Acuity Brands Lighting, Inc.
3823 Columbus Rd., S.W., Grandville, OH 43023
Phone: 800-537-5710 Fax: 740-587-6114
www.americanelectricalighting.com

Autobahn Series ATB0 Roadway Lighting

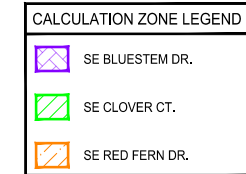
ORDERING INFORMATION

ATB0	20BLEDE53	MVOLT	R5
Series	Performance Packages	Voltage	Optics
ATB0 Autobahn LED Roadway, Small	20BLEDE53 208 Chips, 525mA Driver	MVOLT Multi-volt; 120-277V	R5 Roadway Type V

BK / XL	RFD200705	RFD Description
MISC	RFD200705	100W HPS NEMA label, "I" detail mounted below NEMA label and Mark Carton; MEC Item ID 323-332794
BK BLACK		
XL Not CSA listed		



American Electric Lighting
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3823 Columbus Rd., S.W., Grandville, OH 43023
Phone: 800-537-5710 Fax: 740-587-6114
www.americanelectricalighting.com



Statistics

Description	Avg	Min	Avg/Min
SE Bluestem Dr.	0.27 fc	0.04 fc	6.8:1
SE Clover Ct.	0.23 fc	0.06 fc	3.8:1
SE Red Fern Dr.	0.23 fc	0.06 fc	3.8:1

Schedule

Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
ATB0-R2	6	American Electric Lighting	ATB0 20BLEDE53 R2	ATB0 SERIES 37W LED 525MA TYPE 2 4000K CCT	LED	3807	0.85	37
ATB0-R5	2	American Electric Lighting	ATB0 20BLEDE53 R5	ATB0 SERIES LED 525MA TYPE 5 4000K / 5000K CCT	LED	4869	0.85	36

- #### NOTES:
- ALL LIGHT POLES SHALL BE AS FOLLOWS:
 - MIDAMERICAN CODE 21-1738 POLE w/6' MAST ARM.
 - 28.0' MOUNTING HEIGHT ABOVE FINISHED GRADE.
 - POLE AND MAST ARM SHALL BE GALVANIZED.
 - ALL LIGHTS SHALL BE LED FIXTURES.
 - TOTAL NUMBER OF LIGHTS PROPOSED = 8 LIGHTS
 - CALCULATION ZONES ARE REPRESENTED BY COLOR
 - LIGHT POLES TYPICALLY PLACED FROM 3' TO 6' FROM BACK OF CURB, ADJUST AS NECESSARY TO AVOID CONFLICTS WITH UTILITIES.

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RECORD DRAWING

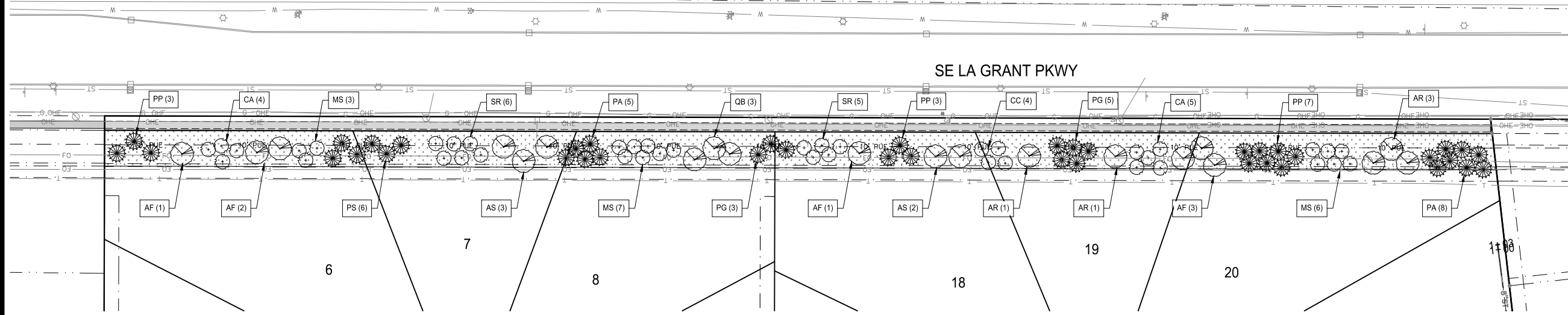
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BUFFER REQUIREMENTS	BUFFER LENGTH	TREES REQUIRED
1 OVERSTORY TREES PER 50 LF OF BUFFER	x (959 \ 50) = 20 (20 x 1) =	20 OVERSTORY
2 EVERGREENS TREES PER 50 LF OF BUFFER	x (959 \ 50) = 20 (10 x 2) =	40 EVERGREEN
3 ORNAMENTAL TREES PER 50 LF OF BUFFER	x (959 \ 50) = 20 (10 x 2) =	40 ORNAMENTAL

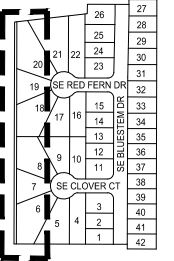
BUFFER PLANTING PROPOSED

OVERSTORY TREES	= 20
EVERGREEN	= 40
ORNAMENTAL	= 40

= SODDED AREA (BUFFER ALONG SE LA GRANT PKWY)

LANDSCAPE PLAN NOTES:

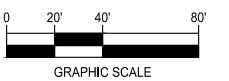
1. PLANT QUANTITIES ARE FOR INFORMATION ONLY; DRAWING SHALL PREVAIL IF CONFLICT OCCURS. CONTRACTOR IS RESPONSIBLE FOR CALCULATING OWN QUANTITIES AND BASING BID ACCORDINGLY.
2. CONTRACTOR SHALL PLACE SHREDDED HARDWOOD BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3". WALNUT PRODUCTS ARE PROHIBITED.
3. KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z-60.1-2004, OR MOST RECENT EDITION.
4. THE CONTRACTOR SHALL REPORT SUBSURFACE SOIL OR DRAINAGE PROBLEMS TO THE LANDSCAPE ARCHITECT.
5. THE CONTRACTOR SHALL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL TREES WITHIN 21 DAYS FOLLOWING THE AWARD OF CONTRACT. TIMELY PROCUREMENT OF ALL PLANT MATERIAL IS ESSENTIAL TO THE SUCCESSFUL COMPLETION AND INITIAL ACCEPTANCE OF THE PROJECT.
6. SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION TO THE LANDSCAPE ARCHITECT AND CITY FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.
7. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT SCHEDULE. THE CONTRACTOR SHALL SUPPLY PLANTS IN QUANTITY AS SHOWN ON DRAWINGS.
8. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT FOR APPROVAL BY THE OWNER PRIOR TO PLANTING.
9. ALL OF "OUTLOT Z" SHALL BE SEEDED WITH TYPE I MIX.
10. ALL DISTURBED AREAS NOT OTHERWISE COVERED BY BUILDING, PAVEMENT, AND LANDSCAPE BEDS SHALL BE SEEDED WITH SUDAS TYPE 4 EROSION CONTROL SEED MIX.
11. ALL STREET TREES ARE TO BE PLANTED AT THE TIME OF LOT DEVELOPMENT. ALL STREET TREES ARE TO BE PLANTED WITHIN THE KETTLESTONE LANDSCAPING DESIGN GUIDE AS PROVIDED BY THE CITY OF WAUKEE.



LANDSCAPE PLAN



NORTH



GRAPHIC SCALE

KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

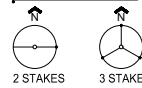
Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

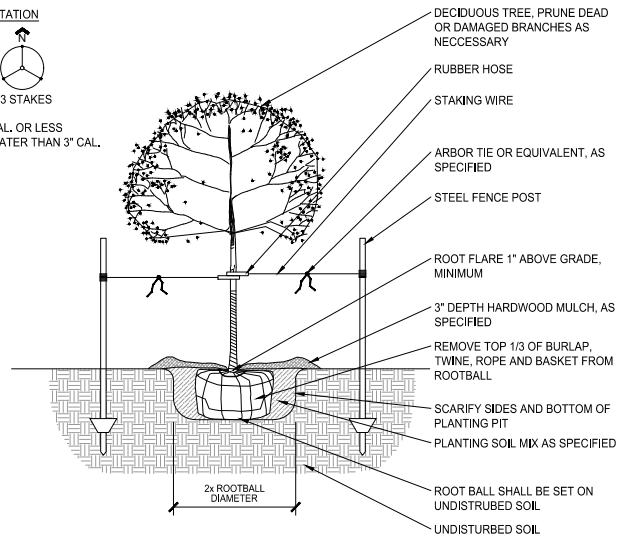
ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

DRAWING NO. LA-01
SHEET NO. 20 / 23

STAKING ORIENTATION

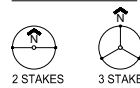


2 STAKES - 3" CAL. OR LESS
3 STAKES - GREATER THAN 3" CAL.

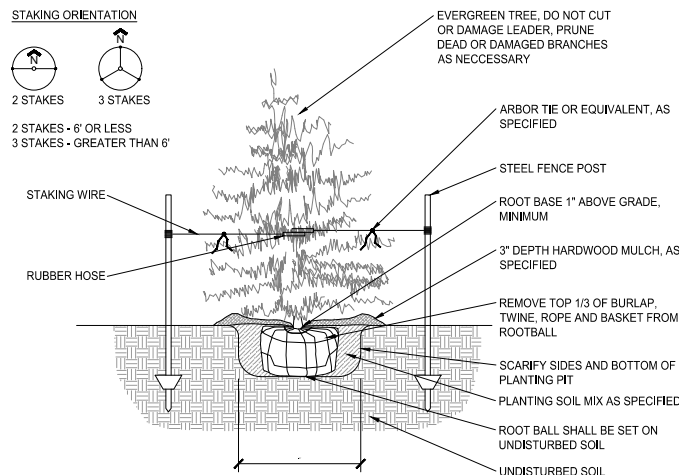


1 DETAIL: DECIDUOUS TREE / ORNAMENTAL TREE PLANTING
1/2" = 1'-0"

STAKING ORIENTATION



2 STAKES - 6" OR LESS
3 STAKES - GREATER THAN 6"



2 DETAIL: EVERGREEN TREE PLANTING
1/2" = 1'-0"

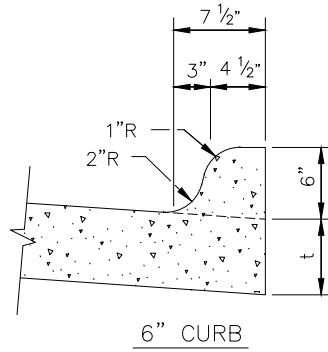
Kettlestone Ridge Plat 6 Buffer Plant Schedule

Abbreviation	Botanical Name	Common Name	Condition	Min. Height	Quantity
Overstory Trees					
AF	Acer x freemanii 'Jeffsred'	Autumn Blaze Maple	1.5" Caliper	8 feet	7
AR	Acer rubrum 'Red Sunset'	Red Sunset Maple	1.5" Caliper	8 feet	5
AS	Acer saccharum 'Balista'	Fall Fiesta Sugar Maple	1.5" Caliper	8 feet	5
QB	Quercus bicolor	Swamp White Oak	1.5" Caliper	8 feet	3
TOTAL =					20
Evergreen Trees					
PA	Picea abies	Norway Spruce	6'	6 feet	13
PG	Picea glauca	Black Hills Spruce	6'	6 feet	8
PP	Picea pungens	Blue Spruce	6'	6 feet	13
PS	Pinus strobus	White Pine	6'	6 feet	6
TOTAL =					40
Ornamental Trees					
CA	Crataegus ambigua	Russian Hawthorne	6' Clump	6 feet	9
CC	Cercis canadensis	Redbud	6' Clump	6 feet	4
MS	Malus 'Spring Snow'	Spring Snow Crabapple	1.5" Caliper	6 feet	16
SR	Syringa reticulata	Japanese Tree Lilac	6' Clump	6 feet	11
TOTAL =					40

RECORD DRAWING

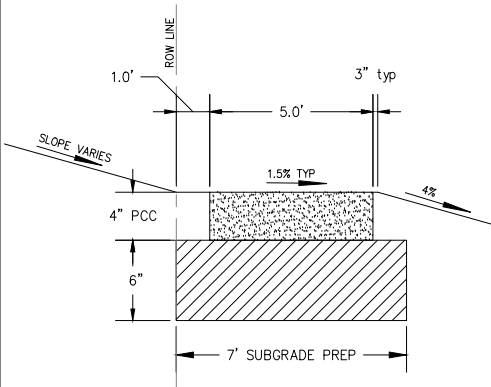
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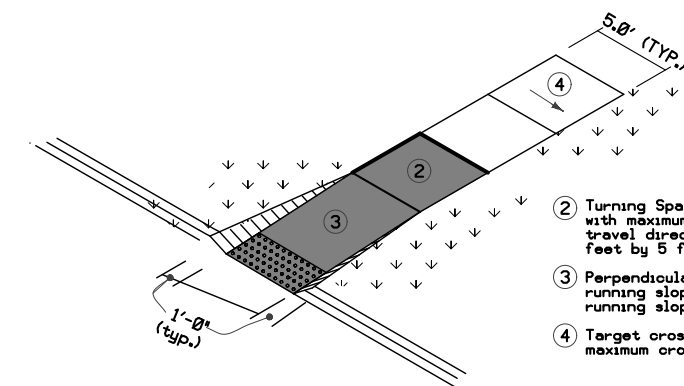
6" STANDARD CURB (STD.DWG.NO.23)

1 NOT TO SCALE



5' SIDEWALK CROSS SECTION

NO SCALE



2 SIDEWALK DETAIL

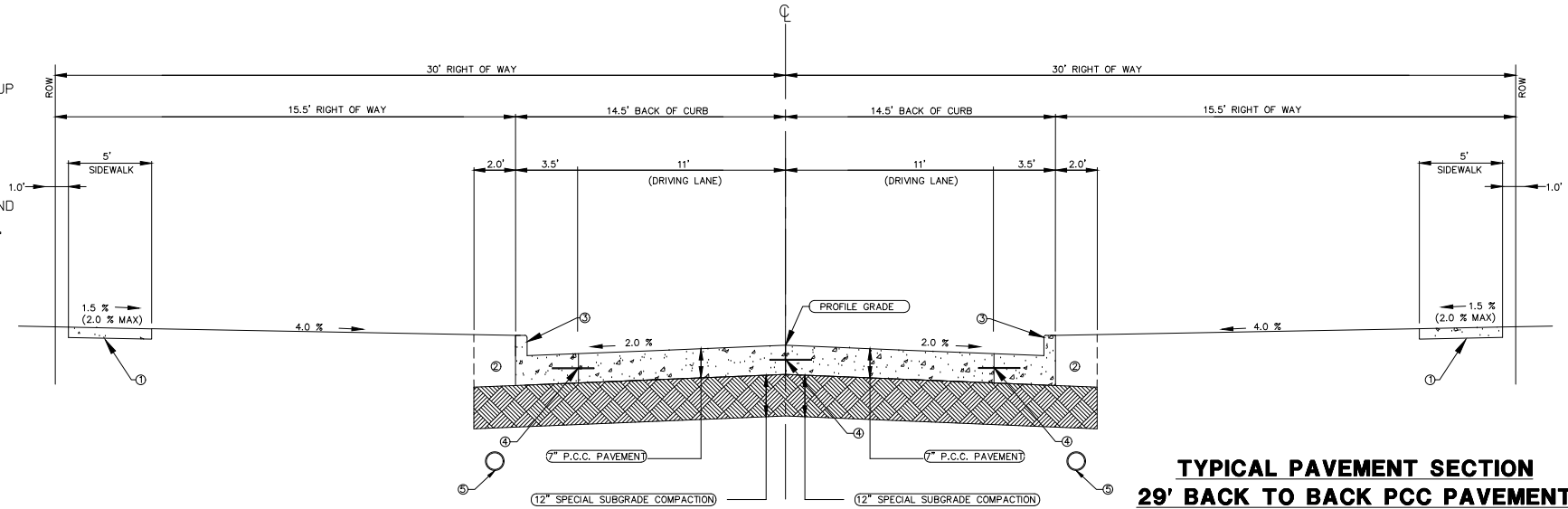
NOT TO SCALE, PLAN VIEW

- ① CONTRACTOR RESPONSIBLE FOR SIDEWALK RAMP UP TO AND INCLUDING THE "COMMON SQUARE".
- ② EXCAVATE AND BACKFILL 2.0'.
- ③ 6" STANDARD CURB
- ④ L OR L-1 JOINT
- ⑤ 6" PERFORATED SUBDRAIN TO BE INSTALLED BEHIND BACK OF CURB WHERE THERE IS NO STORM SEWER.

NOTE:

1. NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER SUCH AS INTERSECTIONS. REFER TO OTHER DRAWINGS FOR DETAILS.

LOCATION
ROAD IDENTIFICATION
SE BLUESTEM DRIVE



TYPICAL PAVEMENT SECTION 29' BACK TO BACK PCC PAVEMENT

NO SCALE

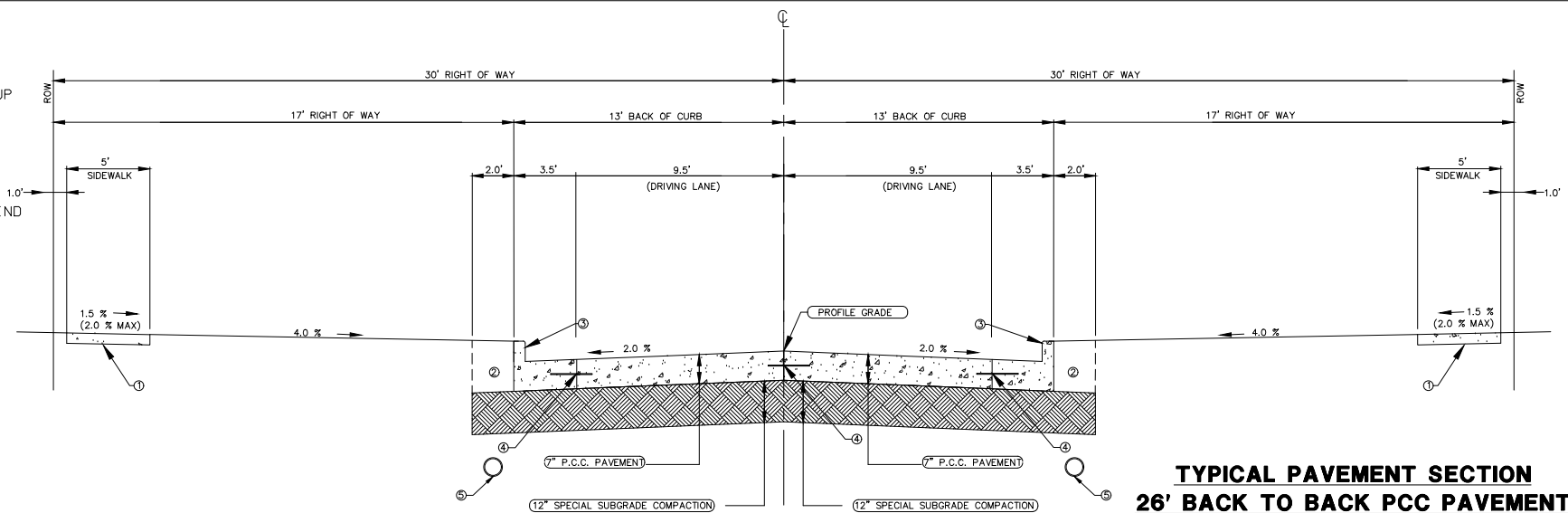
NOTE: SEE "CITY OF WAUKEE ROW UTILITY DETAIL" ON DT-02 FOR UTILITY LOCATIONS AND NOTES

- ① CONTRACTOR RESPONSIBLE FOR SIDEWALK RAMP UP TO AND INCLUDING THE "COMMON SQUARE".
- ② EXCAVATE AND BACKFILL 2.0'.
- ③ 6" STANDARD CURB
- ④ L OR L-1 JOINT
- ⑤ 6" PERFORATED SUBDRAIN TO BE INSTALLED BEHIND BACK OF CURB WHERE THERE IS NO STORM SEWER.

NOTE:

1. NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER SUCH AS INTERSECTIONS. REFER TO OTHER DRAWINGS FOR DETAILS.

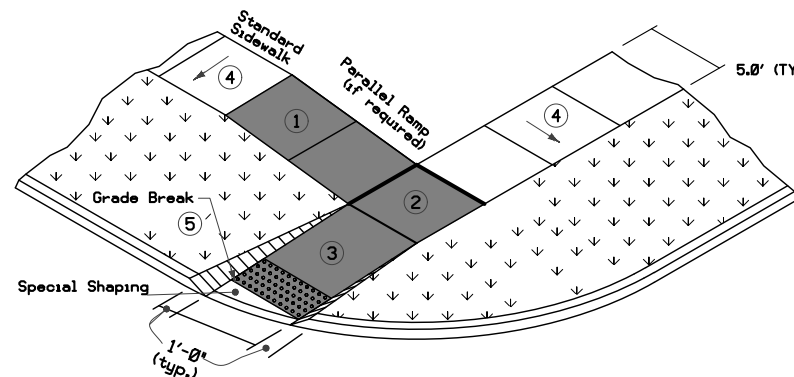
LOCATION
ROAD IDENTIFICATION
SE CLOVER CT. SE RED FERN DR.



TYPICAL PAVEMENT SECTION 26' BACK TO BACK PCC PAVEMENT

NO SCALE

NOTE: SEE "CITY OF WAUKEE ROW UTILITY DETAIL" ON DT-02 FOR UTILITY LOCATIONS AND NOTES



3 RIGHT OF WAY SIDEWALK DETAIL

NOT TO SCALE, PLAN VIEW

- ① Parallel Curb Ramps: If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.
- ② The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.
- ③ Turning Spaces: Target slope of 1.5% with maximum slope perpendicular to the travel directions of 2.0%. Minimum 5 feet by 5 feet.
- ④ Perpendicular Curb Ramp: Target running slope of 6.25% with maximum running slope of 8.3%.
- ⑤ Target cross slope of 1.5% with a maximum cross slope of 2.0%.
Match pedestrian street crossing cross slope or flatter.

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515-964-1229
fax 515-964-2370

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DETAILS

KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

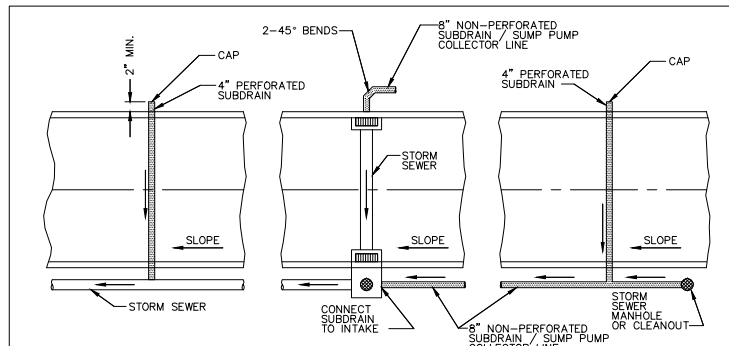
ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

DRAWING NO. SHEET NO.

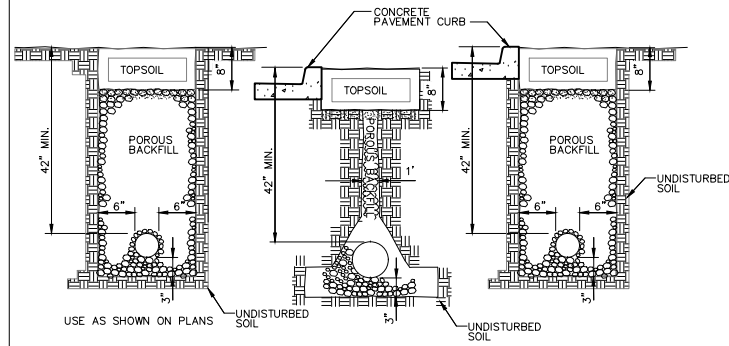
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RECORD DRAWINGS PRODUCED ON: 12/09/2020



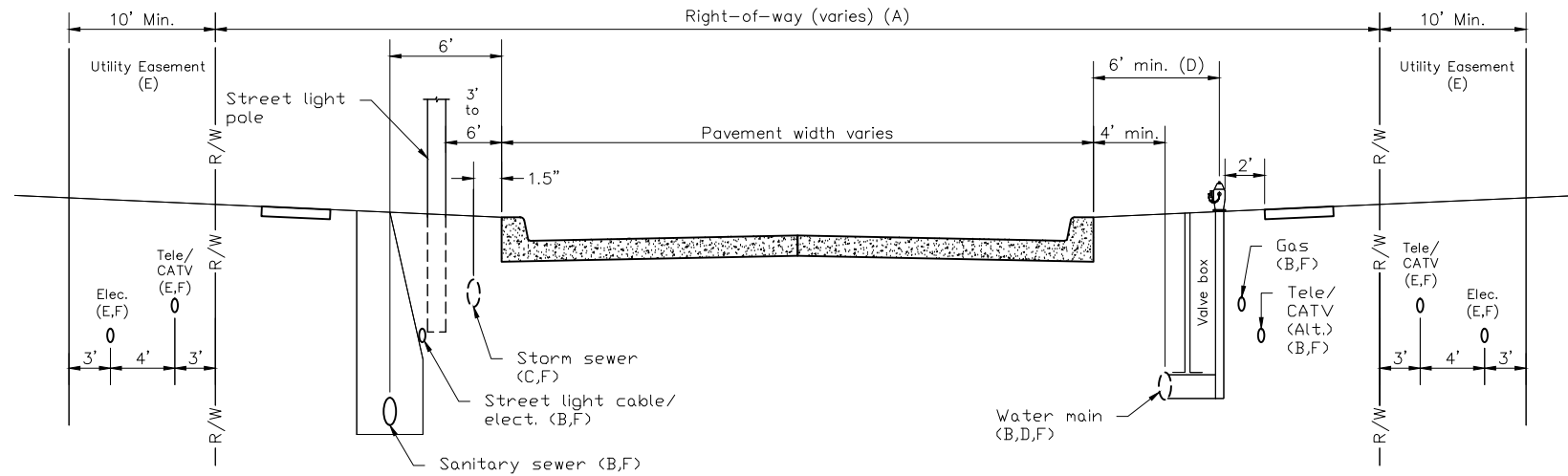
NOTE
CORE DRILL ALL STORM SEWER AND PLACE NON-SHRINK GROUT COLLAR AT CONNECTION.



BACK AND SIDE YARD STORM SEWER USED AS SUBDRAIN BACK OF CURB

NOTES
1. SLOPE SUBDRAINS TO DRAIN.
2. 4" AND 6" BACK OF CURB SUBDRAINS AND ALL BACK AND SIDE YARD SUBDRAINS; USE PEA GRAVEL FOR POROUS BACKFILL.

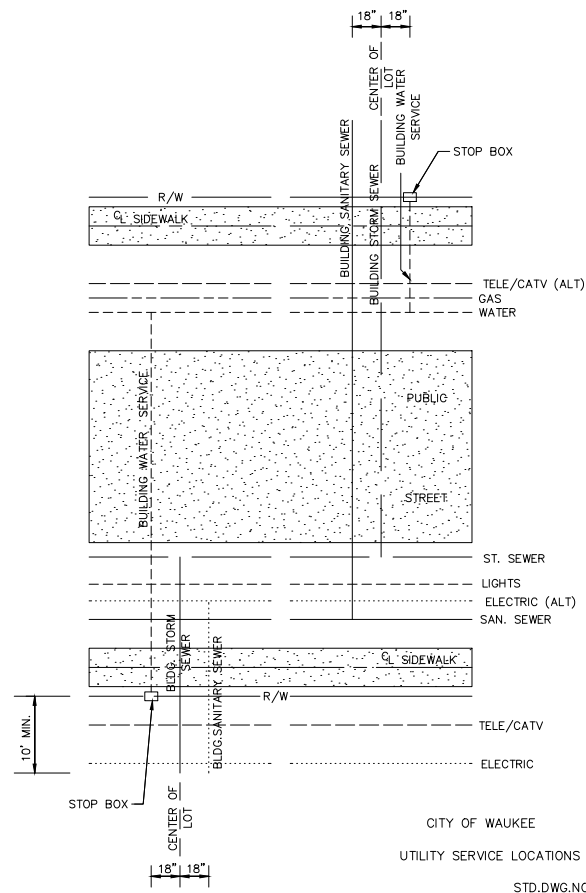
CITY OF WAUKEE
SUBDRAINS
STD.DWG.NO.37 REV. 2



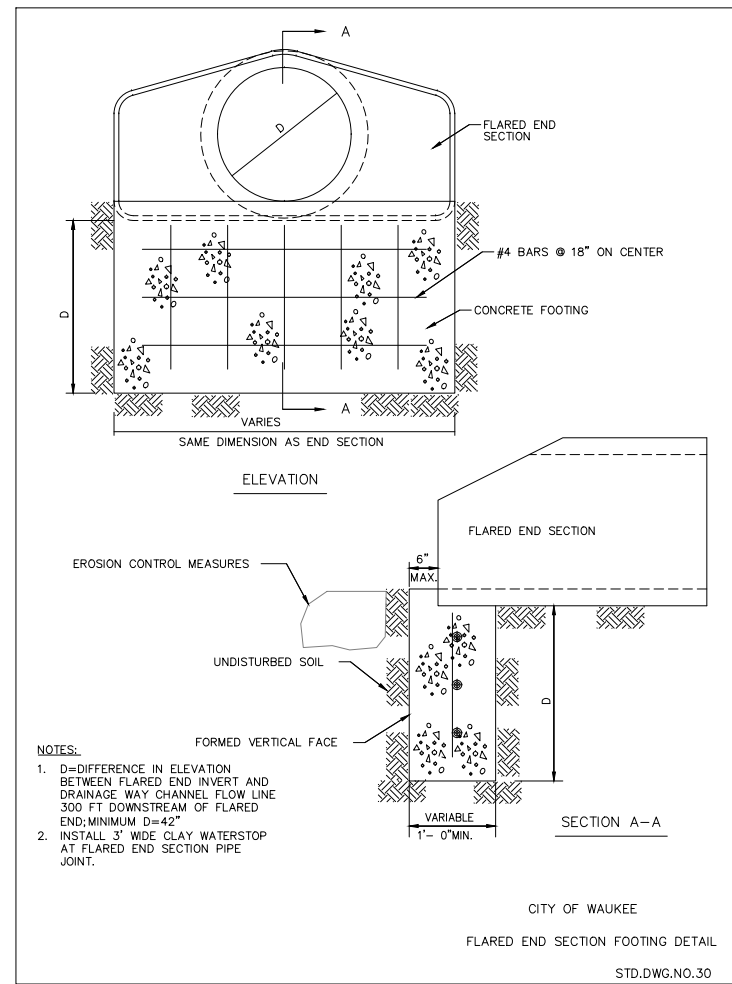
GENERAL NOTES

- A. ROW width varies.
- B. When utilities are in the ROW, the following should be adhered to utilities otherwise provided/approved:
 1. All utilities should be buried. When overhead utilities are allowed to cross the roadway, then minimum vertical clearances are 20 feet for the main cable, and 18 feet for services.
 2. Telephone, cable TV, and water: install on the east and south side of the road.
 3. Gas and electric: install on the west and north side of the road.
 4. Sanitary sewer: install on the west and south side of the road.
- C. Storm Sewers: The normal location for a storm sewer is 1.5 feet from back of curb. When combination manholes and intakes are used, the location increases to 5 feet.
- D. Water mains, Valves, and Hydrants:
 1. The normal water main location is 5.5 feet behind the back of curb. In areas of combination manholes and intakes, this distance is increased to a minimum of 6 feet.
 2. For local streets and minor collectors with limited ROW, use a 90° anchoring elbow between the hydrant tee and the valve. For maintenance purpose, the minimum distance between the centerline of the valve box and the face of the hydrant is 18 inches.
- E. Utility Easement: Telephone, fiber optic, cable TV, electric, and gas lines should be located in front or rear yard easements. Normally telephone and cable TV lines are placed in rear yard easements and fiber optic, electric, and gas lines in front yard easements. Upon approval of the jurisdiction, these utilities may be placed in the right of way at the alternative location when easements do not exist.
- F. Depth of bury:
 - Cable TV (CATV): 3 feet minimum.
 - Electric (Elec.): The recommended depth of bury for electric cable is 4 feet. The minimum depth of bury for electric lines as per the National Electric Safety Code is:
 - 8kV to 5kV cable - 30 inches minimum.
 - Up to 600-volt cable - 24 inches minimum.
 - Street light cable - 18 inches minimum.
 - Gas: 3 feet minimum.
 - Water: varies
 - Sanitary Sewer: Varies
 - Storm sewer: Varies. Approximately 4 feet.
 - Telephone (Tele.)/Fiber optic (F.O.): 3 feet minimum.

CITY OF WAUKEE UTILITY ROW DETAIL

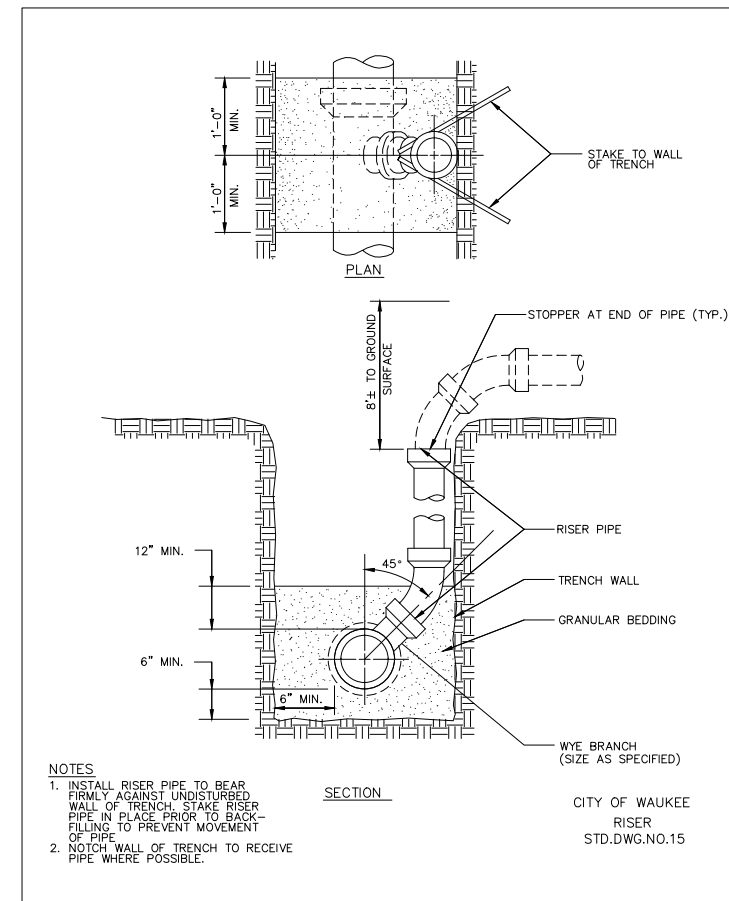


CITY OF WAUKEE
UTILITY SERVICE LOCATIONS
STD.DWG.NO.1A



NOTES:
1. D=DIFFERENCE IN ELEVATION BETWEEN FLARED END INVERT AND DRAINAGE WAY CHANNEL FLOW LINE 300 FT DOWNSTREAM OF FLARED END; MINIMUM D=42"
2. INSTALL 3" WIDE CLAY WATERSTOP AT FLARED END SECTION PIPE JOINT.

CITY OF WAUKEE
FLARED END SECTION FOOTING DETAIL
STD.DWG.NO.30



NOTES
1. INSTALL RISER PIPE 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.

CITY OF WAUKEE
RISER
STD.DWG.NO.15

building strong communities.

1360 NW 121ST. Street
Clive, Iowa 50325
515-964-1229
fax 515-964-2370

NOTICE
McClure Engineering Company waives any and all responsibility and liability for problems which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for problems which arise from failure to obtain and/or follow the engineers guidance with respect to any errors, omissions, inconsistencies, ambiguities, or conflicts which are alleged.

DETAILS

KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBULT

ENGINEER DRAWN BY
J. BECKER J. BECKER
CHECKED BY FIELD BOOK NO.
C. SMITH -

DRAWING NO. SHEET NO.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO SERVE AS A GENERAL RECORD OF CONSTRUCTION AND ARE BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE INFORMATION PROVIDED, AND DOES NOT GUARANTEE AND/OR ASSUME RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE RESULTING RECORD DRAWINGS.

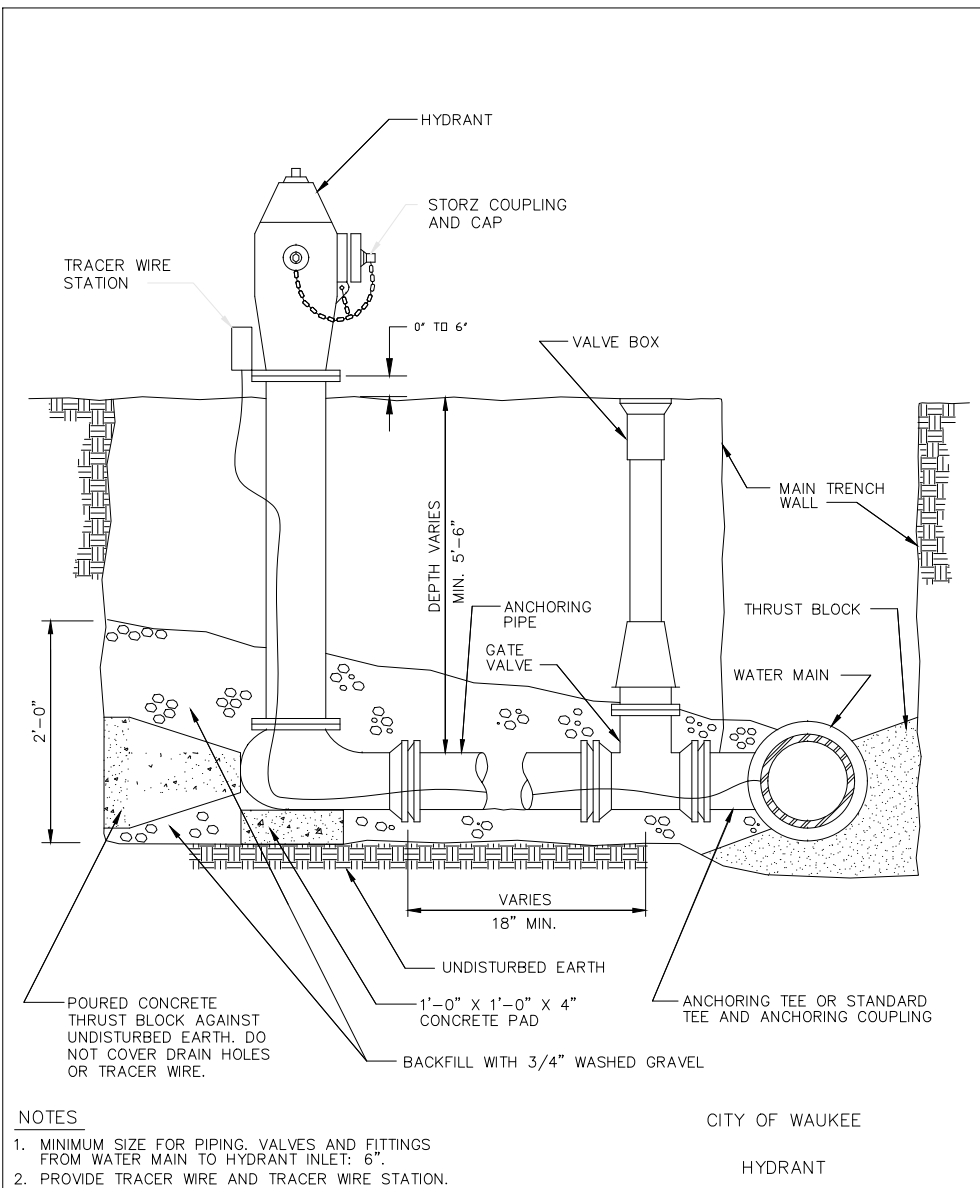
RECORD DRAWINGS PRODUCED ON: 12/09/2020



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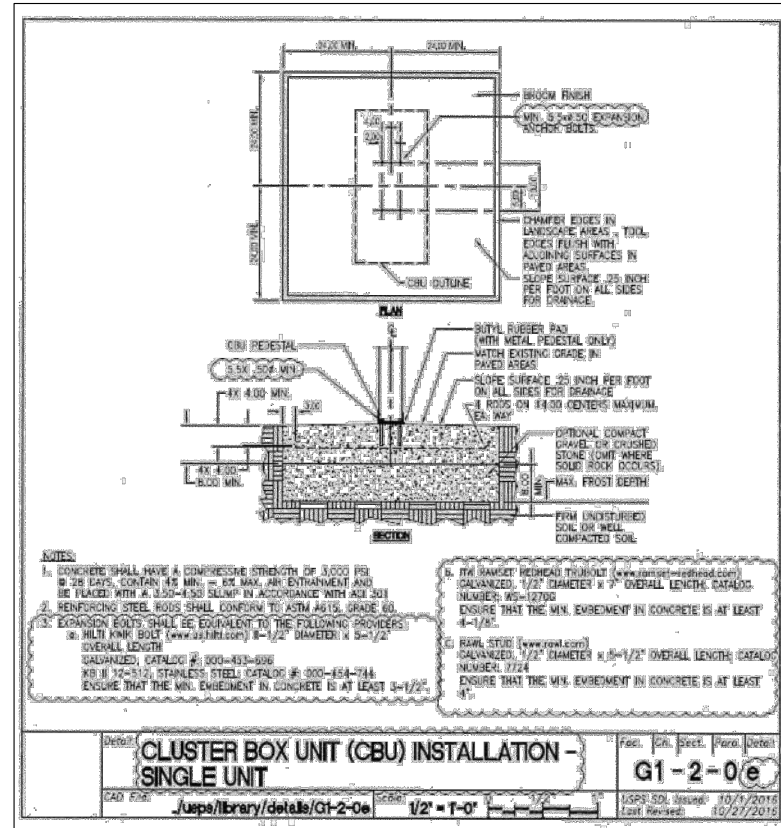
- NOTES
1. MINIMUM SIZE FOR PIPING, VALVES AND FITTINGS FROM WATER MAIN TO HYDRANT INLET: 6".
 2. PROVIDE TRACER WIRE AND TRACER WIRE STATION.
 3. WRAP HYDRANT, PIPE AND FITTINGS WITH POLYETHYLENE ENCASUREMENT.

1 CITY OF WAUKEE HYDRANT DETAIL
NOT TO SCALE

STD.DWG.NO.34 REV.1

CITY OF WAUKEE

HYDRANT



- NOTES
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI. IN 28 DAYS, CONTAIN 4% MIN. AIR MAX. AIR ENTRAINMENT AND BE FINISHED WITH A LEAD-LASSI SLEMP IN ACCORDANCE WITH AASHTO M 208.
 2. REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60. EXPANSION BOLTS SHALL BE EQUIVALENT TO THE FOLLOWING PROVIDERS: SERRALL LENGTH GALVANIZED, CATALOG # 300-451-606 OR # 12-512, STAINLESS STEEL CATALOG # 300-454-744. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3-1/2".
 3. RAWL STUD (www.rawl.com) GALVANIZED, CATALOG # 300-453-856 OR # 12-512, STAINLESS STEEL CATALOG # 300-454-744. NUMBER: 1224. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4-1/2".
 4. 1/2" RAYSECT REDHEAD TRUBOLT (www.rayspect-redhead.com) GALVANIZED, 1/2" DIAMETER X 7" OVERALL LENGTH, CATALOG NUMBER: 16-12700. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4-1/2".
 5. 1/2" RAYSECT REDHEAD TRUBOLT (www.rayspect-redhead.com) GALVANIZED, 1/2" DIAMETER X 10-1/2" OVERALL LENGTH, CATALOG NUMBER: 17224. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4-1/2".

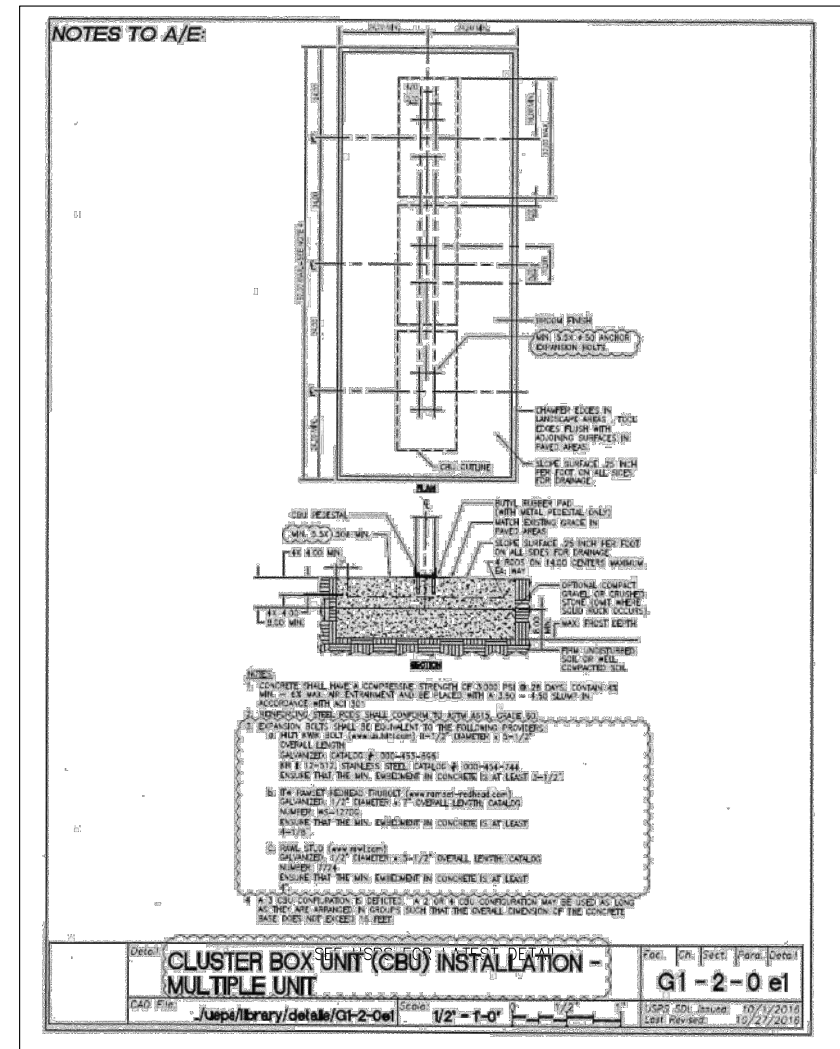
CLUSTER BOX UNIT (CBU) INSTALLATION - SINGLE UNIT

G1-2-0e

CAD File: /usps/library/details/G1-2-0e Scale: 1/2" = 1'-0" USPS SOL Issue: 10/1/2016 Last Revised: 10/27/2016

SEE USPS FOR LATEST DETAIL

2 SE CLOVER CT & SE RED FERN DR MAILBOX PAD INSTALLATION



- NOTES
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS, CONTAIN 4% MIN. AIR MAX. AIR ENTRAINMENT AND BE FINISHED WITH A LEAD-LASSI SLEMP IN ACCORDANCE WITH AASHTO M 208.
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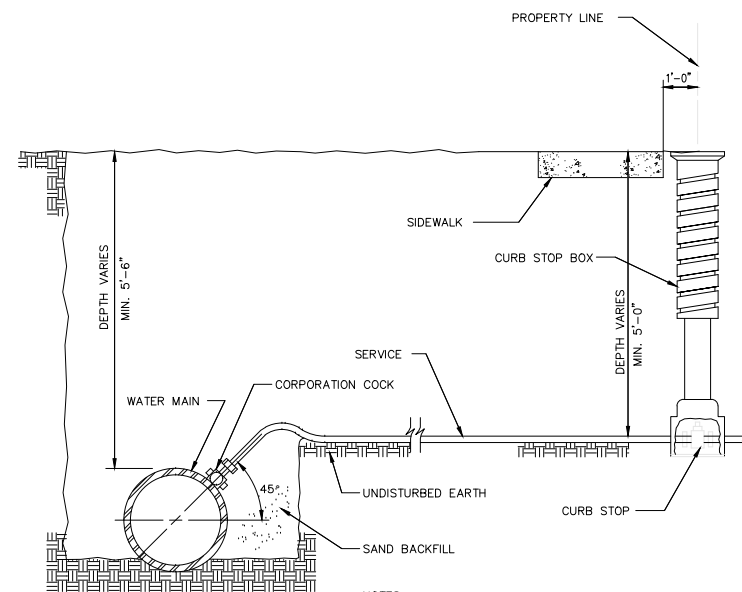
CLUSTER BOX UNIT (CBU) INSTALLATION - MULTIPLE UNIT

G1-2-0e1

CAD File: /usps/library/details/G1-2-0e1 Scale: 1/2" = 1'-0" USPS SOL Issue: 10/1/2016 Last Revised: 10/27/2016

SEE USPS FOR LATEST DETAIL

3 SE BLUESTEM DR MAILBOX PAD INSTALLATION



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

CITY OF WAUKEE
SERVICE CONNECTION
STD.DWG.NO.32 REV.1

KETTLESTONE RIDGE PLAT 6 CONSTRUCTION DRAWINGS

Waukee, Iowa
2211013-040
JUNE 22, 2020

REVISIONS
7.7.2020
7.21.2020
12.09.2020 ASBUILT

ENGINEER: J. BECKER
DRAWN BY: J. BECKER
CHECKED BY: C. SMITH
FIELD BOOK NO.:

DRAWING NO. DT-03
SHEET NO. 23 / 23