

# SITE PLAN

## PRAIRIE CROSSING RETAIL

### DALLAS COUNTY, IOWA

### 505 NE VENTURE DRIVE, WAUKEE, IOWA

OFFICIAL'S  
STAMP

OFFICIAL'S  
STAMP



VICINITY MAP  
1" = 1000'



**PROJECT CONTACTS**

**SANITARY SEWER**  
WAUKEE PUBLIC WORKS DEPARTMENT  
805 UNIVERSITY AVENUE  
WAUKEE, IA 50263  
CONTACT: TIM ROYER  
PHONE: (515-418-1420)

**WATER MAIN**  
WAUKEE PUBLIC WORKS DEPARTMENT  
805 UNIVERSITY AVENUE  
WAUKEE, IA 50263  
CONTACT: TIM ROYER  
PHONE: 515-418-1420

**STORM SEWER**  
WAUKEE PUBLIC WORKS DEPARTMENT  
805 UNIVERSITY AVENUE  
WAUKEE, IA 50263  
CONTACT: TIM ROYER  
PHONE: 515-418-1420

**NATURAL GAS UTILITY**  
WAUKEE PUBLIC WORKS DEPARTMENT  
805 UNIVERSITY AVENUE  
WAUKEE, IA 50263  
CONTACT: TIM ROYER  
PHONE: 515-418-1420

**ELECTRIC**

MID AMERICAN ENERGY  
666 GRAND AVENUE  
DES MOINES, IA 50304  
CONTACT: MATT NOVY  
PHONE: 515-252-6130

**TELEPHONE**

CENTURY LINK  
2103 E UNIVERSITY  
DES MOINES, IA 50311  
CONTACT: DAVE HARRIS  
PHONE: 303-263-1250

**BUILDING DEPARTMENT**

204 W HICKMAN ROAD  
WAUKEE, IA 50263  
CONTACT: KEITH RASH  
PHONE: 515-418-1443

**HEALTH DEPARTMENT**

DALLAS COUNTY PUBLIC HEALTH  
25141 N AVENUE  
ADEL, IA 50003  
PHONE: 515-443-3150

**FIRE DEPARTMENT**

1300 SE LA GRANT PKWY  
WAUKEE, IA 50263  
FIRE MARSHALL: JUSTIN FREDERICK  
PH. 515-418-1448  
EMAIL: JFREDERICK@WAUKEE.ORG

**FRANCHISE UTILITIES**

- CONTRACT FOR ELECTRIC DISTRIBUTION SYSTEM SHALL BE EXECUTED WITH FINAL PLAT.
- NATURAL GAS, TELEPHONE, CABLE OR OTHER UTILITIES SHALL BE INSTALLED AFTER COMPLETION OF PLAT IMPROVEMENTS.

**BENCHMARK**

PRAIRIE CROSSING PLAT 3, WAUKEE, IOWA  
BURY BOLT ON HTD - EAST SIDE OF NE WESTGATE DR. AND  
70' SOUTH OF CL OF NE HORIZON DR.

ELEV. = 1021.480

**FEMA FLOOD ZONE**

ZONE 'X' ACCORDING TO THE FEMA FLOOD INSURANCE RATE  
MAPS (FIRM), COMMUNITY MAP NUMBER 18044C0355F WITH  
AN EFFECTIVE DATE OF DECEMBER 01, 2019  
\*\* FEMA FLOOD INSURANCE RATE MAPS ARE SUBJECT TO  
CHANGE \*\*  
(SEE FEMA FLOOD MAPS SERVICE CENTER FOR CURRENT  
MAPS)

GENERAL LEGEND	
PLAT BOUNDARY	EXISTING LOT LINE
SECTION LINE	SANITARY/STORM MANHOLE
LOT LINE	WATER VALVE
CENTERLINE	FIRE HYDRANT
EASEMENT LINE	STORM SEWER SINGLE INTAKE
FLARED END SECTION	STORM SEWER DOUBLE INTAKE
DRAIN BASIN OR SEDIMENT RISER	STORM SEWER ROUND INTAKE
DRAIN BASIN WITH SOLID GRATE	FLARED END SECTION
WATER VALVE	DECIDUOUS TREE
FIRE HYDRANT ASSEMBLY	CONIFEROUS TREE
BLOW-OFF HYDRANT	SHRUB
SCOUR STOP MAT	POWER POLE
TURF REINFORCEMENT MAT	STREET LIGHT
STORM SEWER WITH SIZE	GUY ANCHOR
SUBDRAIN	ELECTRIC TRANSFORMER
WATER SEWER WITH SIZE	GAS METER
WATER SERVICE	TELEPHONE RISER
PROPOSED CONTOUR	SIGN
SILT FENCE	CATV
ADDRESS	UNDERGROUND ELECTRIC
RIPRAP	UNDERGROUND GAS
	UNDERGROUND FIBER OPTIC
	UNDERGROUND TELEPHONE
	OVERHEAD ELECTRIC
	SANITARY SEWER WITH SIZE
	FATS, OIL & GREASE WITH SIZE
	STORM SEWER WITH SIZE
	WATER MAIN WITH SIZE
	EXISTING CONTOUR
	TREE LINE
	BUILDING SETBACK LINE
	PUBLIC UTILITY EASEMENT
	M.O.E.

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SUBMITTAL TABLE	
SUBMITTAL DATE	SUBMITTAL NOTES
JULY 26, 2022	INITIAL SUBMITTAL
AUGUST 22, 2022	
SEPTEMBER 13, 2022	
SEPTEMBER 30, 2022	
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**PROPERTY OWNER/DEVELOPER:**  
ALICES, L.C.,  
KNAPP PROPERTIES INC.  
5000 WESTOWN PARKWAY, SUITE 400  
WEST DES MOINES, IA 50266-5421  
CONTACT: TOM WITTMAN  
PH. 515-223-4000  
EMAIL: TOM.WITTMAN@KNAPPPROPERTIES.COM

**PROJECT MANAGER:**  
PAUL CLAUSEN, PE,  
CIVIL ENGINEERING CONSULTANTS  
2400 86TH STREET, #12  
DES MOINES, IOWA 50322  
PH. 515-276-4884 EXT. #211  
EMAIL: CLAUSEN@CECLAC.COM

**PROFESSIONAL LAND SURVEYOR:**  
JEFFERY A. GADDIS, PE, PLS.,  
CIVIL ENGINEERING CONSULTANTS  
2400 86TH STREET, #12  
DES MOINES, IOWA 50322  
515-276-4884 EXT. 221  
GADDIS@CECLAC.COM

**MUNICIPALITY PLANNER:**  
BILL WETTEE,  
PLANNER  
CITY OF WAUKEE  
PH. 515-418-1438  
EMAIL: WMETTEE@WAUKEE.ORG

**LEGAL DESCRIPTION:**  
LOT 1, PRAIRIE CROSSING PLAT 10, AN OFFICIAL PLAT, CITY OF WAUKEE,  
DALLAS COUNTY, IOWA, RECORDED IN BOOK 2022, PAGE 18313, SAID  
PARCEL CONTAINS 2.77 ACRES MORE OR LESS.

**ZONING / LAND USE:**  
G-1B - LARGE SCALE COMMERCIAL DISTRICT

**EXISTING USE**  
OPEN SPACE

**PROPOSED USE**  
COMMERCIAL RETAIL

**BULK REGULATIONS**

G-1B  
FRONT YARD SETBACK = 50 FEET WHEN ADJACENT TO A MAJOR THOROUGHFARE  
SIDE YARD SETBACK = 0 FEET  
SIDE YARD SETBACK = 40 FEET / IF ADJACENT TO 'R' DISTRICT  
REAR YARD SETBACK = 50 FEET  
MAXIMUM HEIGHT = 50 FEET (SEE CODE)  
MAXIMUM STORIES = 3 STORIES

**PARKING CALCULATIONS**

FLEX MULTI-TENANT @ SPACES / 1,000 SF (18,900 SF) 151.2 SPACES  
TOTAL REQUIRED PARKING 152 SPACES  
PROPOSED PARKING 165 SPACES

REQUIRED ADA STALLS 5 STANDARD AND 1 VAN  
PROVIDED 6 ADA STALLS (2 VAN ACCESSIBLE)

REQUIRED DRIVE-THRU QUEUING: 5 SPACES / DRIVE-THROUGH LANE  
PROVIDED DRIVE-THRU QUEUING: 11 SPACES

**BUILDING HEIGHT**

LOT 1 1-STORY 22'-0"

**BUILDING AREA**

18,900 S.F. (12 UNITS)

**IMPERVIOUS AREA**

92,002 S.F.

**PROPOSED CONSTRUCTION SCHEDULE**

GRADING ACTIVITIES: AUGUST, 2022  
UTILITY PLACEMENT: SEPTEMBER, 2022  
PAVEMENT: OCTOBER, 2022  
PUNCH LIST ITEMS: DECEMBER, 2022

\*\*\* THIS LAND SURVEYOR'S  
CERTIFICATION DOES NOT  
INCLUDE DESIGN SPOT  
ELEVATIONS, MINIMUM  
PROTECTION ELEVATIONS,  
MINIMUM OPENING ELEVATIONS,  
MINIMUM BASEMENT  
ELEVATIONS, DETENTION BASIN  
& STORM WATER EVENT  
ELEVATIONS, OR ANY OTHER  
ITEMS THAT MAY FALL UNDER  
THE PRACTICE OF A  
PROFESSIONAL CIVIL  
ENGINEER. \*\*\*

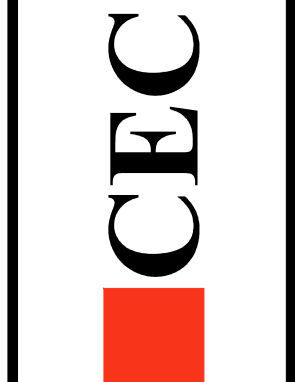


**CERTIFICATION**

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT  
WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL  
SUPERVISION AND THAT I AM A DULY LICENSED  
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE  
STATE OF IOWA.  
PAUL J.D. CLAUSEN, IOWA LICENSED NO. 23112 DATE  
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023.  
PAGES OR SHEETS COVERED BY THIS SEAL:  
ALL SHEETS

**PRELIMINARY**  
**PRAIRIE CROSSING RETAIL**  
 505 NE VENTURE DRIVE, WAUKEE, IOWA  
**COVER SHEET SITE PLAN**

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



DATE: September 30, 2022  
 DATE OF SURVEY: PC  
 DESIGNED BY: MEH  
 DRAWN BY:

SHEET  
 OF 16  
 E0822

**GENERAL NOTES:**

- 1. CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION:
a. CITY OF WAUKEE - ENGINEERING DEPARTMENT
b. ALICES, LLC
c. CIVIL ENGINEERING CONSULTANTS, INC. PHONE: 515.276.4884
d. IOWA ONE-CALL
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LEASES NEEDED TO CONSTRUCT THIS PROJECT.
3. ALL ELEVATIONS ARE PROPOSED FINISHED GRADE AT CENTERLINE UNLESS OTHERWISE NOTED.
4. THE LOCATION OF EXISTING FACILITIES AND APPURTENANCES SHOWN ON THIS PLAN ARE BASED ON AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING TO DETERMINE EXACT FACILITIES LOCATIONS. CIVIL ENGINEERING CONSULTANTS, INC. DOES NOT GUARANTEE THE LOCATION OF EXISTING FACILITIES AS SHOWN, OR THAT ALL EXISTING FACILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL PUBLIC AND PRIVATE UTILITY PROVIDERS SERVING THIS AREA, AND TO DETERMINE THE EXTENT AND PRECISE LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION BEGINS.
5. THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE RESULTING FROM THE CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC. OF EXISTING FACILITIES DOES OCCUR THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE UTILITY'S OWNER.
6. THE CONTRACTOR SHALL RECONNECT ALL FIELD TILE INTERCEPTED DURING CONSTRUCTION AND RECORD LOCATION FOR AS-BUILT PLANS.
7. CIVIL ENGINEERING CONSULTANTS, INC. IS NOT A GEOTECHNICAL ENGINEER.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR INSPECTIONS AS NEEDED.
9. ALL PROPOSED CHANGES TO THE PLAN SET DURING CONSTRUCTION SHALL RECEIVE WRITTEN APPROVAL FROM THE CITY OF WAUKEE ENGINEERING DEPARTMENT AND THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES THAT HAVE NOT BEEN GRANTED APPROVAL.
10. 2020 WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2022 EDITION OF SUDAS SHALL APPLY TO THIS PROJECT.
11. THE CONTRACTOR IS REQUIRED TO SET UP A PRE CONSTRUCTION MEET WITH THE CITY OF WAUKEE PUBLIC WORKS DEPARTMENT ONE WEEK PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR IS TO PROVIDE SUBMITTALS OF CONSTRUCTION MATERIALS TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL NOTIFY THE CITY OF WAUKEE ENGINEERING DEPARTMENT 48-HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ON A HOLIDAY OR WEEKEND.
14. ALL CONSTRUCTION STAKING SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A LICENSED ENGINEER OR LAND SURVEYOR.
15. A CERTIFIED AS-BUILT GRADING PLAN SHALL BE PROVIDED TO THE CITY OF WAUKEE PUBLIC WORKS DEPARTMENT PRIOR TO ACCEPTANCE OF PUBLIC IMPROVEMENTS AND APPROVAL OF THE FINAL PLAT.
16. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THE PLANS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ALL APPLICABLE SAFETY REGULATIONS.
17. THE CONTRACTOR SHALL CONDUCT CLEAN-UP, SURFACE RESTORATION, AND SURFACE REPLACEMENT ACTIVITIES AS CONSTRUCTION PROGRESSES. ALL DEBRIS SPILLED ON THE R.O.W. OR ON ADJACENT PROPERTY SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH DAY AND PRIOR TO ANY RAIN EVENT.
18. SIDEWALKS AND PEDESTRIAN RAMPS ARE TO BE DESIGNED AND INSTALLED PER THE LATEST PROWAGS AND ADA REQUIREMENTS. CURB RAMPS ARE TO BE STAKED OUT BY THE ENGINEER.
19. ALL TEMPORARY TRAFFIC CONTROLS MUST BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
20. THE CONTRACTOR SHALL PROTECT AND BACK FILL AROUND UNDERGROUND UTILITIES. BACK FILL SHALL BE IN 6-INCH LAYERS, COMPACTED TO 95% STANDARD PROCTOR DENSITY.

**NPDES/SWPPP**

- 1. THE OWNER AND/OR CONTRACTOR ARE REQUIRED TO OBTAIN A NPDES PERMIT AND FOLLOW THE REQUIREMENTS OF THE ASSOCIATED STORM WATER POLLUTION PREVENTION PLAN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
2. THE OWNER AND/OR CONTRACTOR ARE REQUIRED TO OBTAIN A CITY OF WAUKEE CGS5550 PERMIT.
3. DEBRIS SPILLED ONTO THE RIGHT-OF-WAY WILL BE PICKED UP BY THE END OF EACH WORKDAY AND PRIOR TO A RAIN EVENT.
4. STRIP BLACK DIRT AND RESPREAD. (Ø" MINIMUM).

**GRADING NOTES**

- 1. ONE WEEK PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY:
a. CITY OF WAUKEE - ENGINEERING DEPARTMENT
b. ALICES LLC
c. CIVIL ENGINEERING CONSULTANTS, INC. PHONE: 515.276.4884
d. IOWA ONE-CALL
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WAUKEE STANDARD SPECIFICATIONS, CODES, AND POLICES; SUDAS; AND IN ACCORDANCE WITH RECOMMENDATIONS CONTAINED IN GEOTECHNICAL EXPLORATION BY ALLENDER BUTKZE PN 221954.
3. ALL SPOT ELEVATIONS ARE AT GUTTER UNLESS NOTED OTHERWISE.
4. WAUKEE EROSION AND SEDIMENT CONTROL ORDINANCE IS APPLICABLE TO THIS SITE.
5. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND EXACT LOCATION OF THEIR FACILITIES BEFORE BEGINNING WORK.
6. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OF APPURTENANCE, OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
7. STRIP TOPSOIL FROM ALL AREAS WHICH ARE TO RECEIVE STRUCTURAL FILL.
8. AREAS TO RECEIVE FILL TO BE BENCHMARKED.
9. PREPARE BOTTOM OF BENCH FOR FILL BY DISCS TO A DEPTH OF 6-INCHES AND COMPACT. ANY LOCALIZED AREAS WHICH CANNOT BE SATISFACTORILY COMPACTED OR WHICH SHOW EVIDENCE OF PUMPING ACTION SHALL BE UNDERCUT AND RECOMPACTED WITH ON-SITE FILL.
10. ALL SITE GRADING FILL SHALL BE COMPACTED TO A DENSITY THAT IS NOT LESS THAN 95% STANDARD PROCTOR.
11. ALL AREAS WHICH ARE TO RECEIVE PAVING SHALL HAVE THE TOP 12-INCHES DISCED AND RECOMPACTED TO 95% STANDARD PROCTOR DENSITY.
12. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL MATCH URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, BETWEEN 0% AND 4% OVER OPTIMUM MOISTURE.
13. MAINTAIN ALL CUT AND FILL AREAS FOR SURFACE DRAINAGE AT ALL TIMES.
14. FINAL GRADES SHALL BE WITHIN 0.1' OF PLAN GRADE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL TOPSOIL REQUIREMENTS OF GENERAL PERMIT #2 ARE MET.
16. BACKFILL TO TOP OF ALL CURBS.

**SANITARY NOTES**

- 1. CASTING TYPES ARE FROM SUDAS SPECS.
2. CONNECTIONS TO EXISTING MANHOLES ARE TO BE CORE DRILLED AND USE A LINK SEAL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATIONS OF ALL SANITARY SEWER SERVICES & PROVIDING THIS INFORMATION TO THE ENGINEER.
4. THE CONTRACTOR SHALL CLEAN AND VIDEO TAPE THE SANITARY SEWER AT PROJECT COMPLETION. A COPY OF THE VIDEO AND THE REPORT SHALL BE SUBMITTED TO THE CITY OF WAUKEE PUBLIC WORKS DEPARTMENT AFTER THE VIDEO INSPECTION.
5. ALL MANHOLES AND MANHOLE CASTINGS MUST BE ROTATED AS REQUIRED TO AVOID MANHOLE CONFLICTS WITH SIDEWALKS.
6. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED.
7. ALL MANHOLES TO HAVE 18" BARRIERS.

**STORM NOTES**

- 1. PROVIDE A 3' WIDE CLAY WATER STOP, AN APRON GUARDS & CONCRETE FOOTINGS ON ALL FLARED END SECTIONS. CONTRACTOR SHALL TIE THE LAST THREE PIPE JOINTS AT THE FLARED END SECTION.
2. ALL STORM SEWER ARE TO BE CLEANED AND VIDEO TAPED UPON COMPLETION. A COPY OF THE VIDEO SHALL BE PROVIDED TO THE CITY OF WAUKEE PUBLIC WORKS DEPARTMENT.
3. PAVEMENT REINFORCEMENT IS REQUIRED WHERE EARTH COVER OVER STORM SEWERS IS LESS THAN 2 FEET.
4. STORM SERVICES INSTALLED INTO STORM STRUCTURES MUST BE CORE DRILLED. KEEP THE SERVICE AS MUCH ABOVE THE STRUCTURE FLOW LINE AS POSSIBLE TO AVOID SURCHARGE.
5. STORM SEWER SHALL BE OPEN JOINTED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATIONS OF ALL STORM SEWER SERVICES & PROVIDING THIS INFORMATION TO ENGINEER.
7. ALL PRIVATE INFRASTRUCTURE SHALL BE OWNED AND MAINTAINED BY OWNER.

**WATER NOTES**

- 1. FOLLOW 2020 WAUKEE STANDARD SPECIFICATIONS FOR PIPE MATERIALS, FIRE HYDRANTS, CURB STOPS, VALVES AND INSTALLATION.
2. THE CONTRACTOR SHALL PROTECT AND BACKFILL AROUND ALL UTILITIES AND STRUCTURES. BACKFILL SHALL BE IN ACCORDANCE WITH 2020 WAUKEE STANDARD SPECIFICATIONS.
3. HYDRANTS, MANHOLE COVERS AND VALVE BOXES SHALL BE SET TO CONFORM TO FINISHED PAVEMENT ELEVATIONS.
4. HYDRANTS SHALL BE SET NOT MORE THAN 4 FEET FROM CENTER OF WATER MAIN.
5. AN APPROVED SADDLE SHALL BE USED FOR ALL WATER SERVICE TAPS.
6. ALL SERVICE LINES SHALL BE TESTED WITH WATER MAIN.
7. WHERE SEWERS CROSS OVER OR LESS THAN 18-INCHES BELOW A WATER MAIN:
a. FOR STORM SEWERS FLEXIBLE O-RING-GASKET JOINTS RATED AT 13 PSI OR GREATER SHALL BE UTILIZED UNTIL THE NORMAL DISTANCE FROM THE SEWER TO THE WATER MAIN IS AT LEAST 10'.
b. ONE FULL LENGTH OF WATER MAIN SHALL BE LOCATED SO THAT BOTH JOINTS AREA AS FAR AS POSSIBLE FROM THE SEWER.
c. THE SEWER MUST BE ADEQUATELY SUPPORTED.
d. A LOW PERMEABLE SOIL SHALL BE USED FOR BACKFILL WITHIN 10' OF THE POINT OF CROSSING.
8. ALL STORM SEWER CROSSING ABOVE THE WATER MAIN WILL NEED TO INSTALL O-RING JOINT PIPE FOR 20' CENTERED OVER THE WATER MAIN.
9. ALL HYDRANTS SHALL HAVE 5" STORZ FITTINGS INCLUDING ANY RELOCATED HYDRANTS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATION OF ALL WATER SERVICES AND PROVIDING THIS INFORMATION TO ENGINEER AND CITY OF WAUKEE.
11. SPECIAL CARE MUST BE USED TO AVOID AIR ENTRAPMENT AT AREA WHERE WATER MAIN DIPS.

**PAVING NOTES**

- 1. ALL ELEVATIONS ARE PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED.
2. ALL PAVING SHALL HAVE 6-INCH CURBS UNLESS NOTED OTHERWISE.
3. PROVIDE CURB DROPS FOR SIDEWALKS AT INTERSECTIONS AS SHOWN ON CONSTRUCTION DOCUMENTS.
4. CONTRACTOR SHALL FOLLOW PAVEMENT RECOMMENDATIONS OF GEOTECHNICAL REPORT PREPARED BY ALLENDER BUTKZE PN 221954.
5. CITY OF WAUKEE SHALL BE NOTIFIED OF ALL SUBGRADE TREATMENTS PRIOR TO USE.
6. SPECIAL CARE IS REQUIRED IN AREAS OF FILL TO MINIMIZE THE AMOUNT OF SETTLEMENT AND POTENTIAL FOR CRACKING.

**SODDING NOTES**

- 1. SOD SHALL BE FOUR WAY BLEND CONTAINING 25% OF EACH OF FOLLOWING: KENTUCKY BLUEGRASS AND ONE OTHER BLUEGRASS, CREEPING RED FESCUE, AND TALL FESCUE. CONTENT MAY VARY UP TO 5%.
2. SOD SHALL BE CUT AT UNIFORM THICKNESS OF APPROXIMATELY 1" PLUS OR MINUS 1/4".
3. BEFORE STRIPPING, SOD SHALL BE MOWED TO UNIFORM HEIGHT OF 2 1/2".
4. SOD SHALL BE REASONABLY FREE OF DISEASE AND SOIL-BORNE INSECTS.
5. SOD SHALL BE FREE OF OBJECTIONABLE GRASSY AND BROADLEAF WEEDS.
6. SOD SHALL BE HARVESTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY NOT ADVERSELY AFFECT SURVIVAL OF SOD.
7. SOD SHALL BE CUT, DELIVERED AND INSTALLED IN TIME PERIOD OF 36 HOURS.
8. SOD BED SHALL BE IN FIRM BUT UNCOMPACTED CONDITION WITH RELATIVELY FINE TEXTURE AND FREE OF FOOTPRINTS DEEPER THAN 1/2" AT TIME OF SODDING.
9. SOD SHALL BE LAID WITH STAGGERED JOINTS AT RIGHT ANGLES TO DIRECTION OF SLOPE.
10. SOD SHALL BE STAKED ON ALL SLOPES THAT ARE 4:1 OR STEEPER.
11. IN ABSENCE OF ADEQUATE RAINFALL, SOD SHALL BE WATERED BY AUTOMATIC IRRIGATION SYSTEM. SUBSEQUENT IRRIGATION SHALL MAINTAIN MOISTURE TO DEPTH OF 4 INCHES.
12. SOD SHALL NOT BE MOWN UNTIL IT IS FIRMLY ROOTED. NO MORE THAN 1/3 OF GRASS LEAF SHALL BE REMOVED AT ANY ONE TIME.
13. ANY IRRIGATION SYSTEM IS BY IRRIGATION DESIGN-BUILD CONTRACTOR WITH 10 YEARS EXPERIENCE IN DESIGN AND INSTALLATION OF COMMERCIAL IRRIGATION SYSTEMS, AND SHALL CARRY ONE-YEAR WARRANTY.

**PLANTING NOTES**

- 1. ALL SITE WORK, SODDING AND LANDSCAPING SHALL MEET THE REQUIREMENTS OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (S.U.D.A.S.).
2. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1).
3. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR PERIOD OF ONE YEAR FROM DATE OF INITIAL ACCEPTANCE.
4. CONTRACTOR SHALL REMOVE TREE STAKES ONE YEAR AFTER INSTALLATION.
5. NO PLANT MATERIAL SHALL BE SUBSTITUTED WITHOUT AUTHORIZATION OF LANDSCAPE ARCHITECT AND WAUKEE COMMUNITY DEVELOPMENT DEPARTMENT.
6. ALL TREES, SHRUBS, BEDS SHALL BE MULCHED WITH AT LEAST 3-INCHES SHREDDED HARDWOOD MULCH UNO.
7. CONTRACTOR SHALL VERIFY LOCATION AND PROTECT ALL UTILITIES AND STRUCTURES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY CONTRACTOR AT CONTRACTOR'S EXPENSE TO SATISFACTION OF OWNER OF UTILITY.
8. ONE WEEK PRIOR TO INSTALLATION, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT.
9. CONTRACTOR SHALL STAKE LOCATION OF PLANTS FOR LANDSCAPE ARCHITECT'S APPROVAL BEFORE DIGGING HOLES.
10. REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, MUST BE MAINTAINED FOR LIFE OF CERTIFICATE OF OCCUPANCY.
11. TOPSOIL SHALL BE LOAM SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY DPS. REGARDLESS, TOPSOIL SHALL NOT BE MIXTURE OF CONTRASTING TEXTURED SUBSOILS, AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 " IN DIAMETER.
12. ALL DISTURBED AREAS INCLUDING R.O.W. SHALL BE SODDED. SEE PLAN.

**FIRE SAFETY CONSTRUCTION NOTE**

- 1. APPROVED FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED AS SOON AS CONSTRUCTION COMMENCES. IF PAVING IS NOT INSTALLED PRIOR TO BUILDING CONSTRUCTION COMMENCING AFTER FOOTINGS INSTALLED, AN APPROVED ROUTE AROUND THE EXTERIOR OF THE BUILDING TO EXTEND WITHIN 100 FEET OF ALL PORTIONS OF THE EXTERIOR WALLS SHALL BE PROVIDED AND COMPLY WITH THE REQUIREMENTS OF SECTION 503.2 OF THE IFC.

Civil Engineering Consultants, Inc.
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Table with 2 columns: Field Name, Value. Fields include PUBLISH DATE, DATE OF SURVEY, DESIGNED BY, DRAINED BY.

PRAIRIE CROSSING RETAIL
505 NE VENTURE DRIVE, WAUKEE, IOWA
NOTES & INFORMATION SHEET

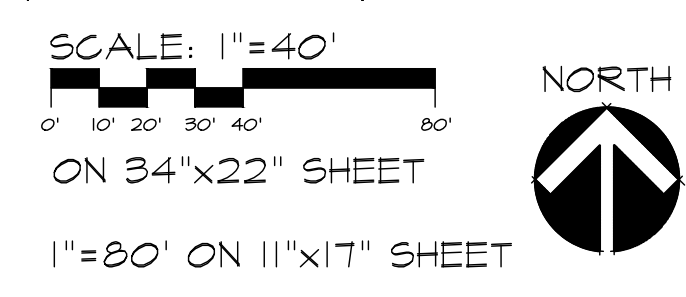
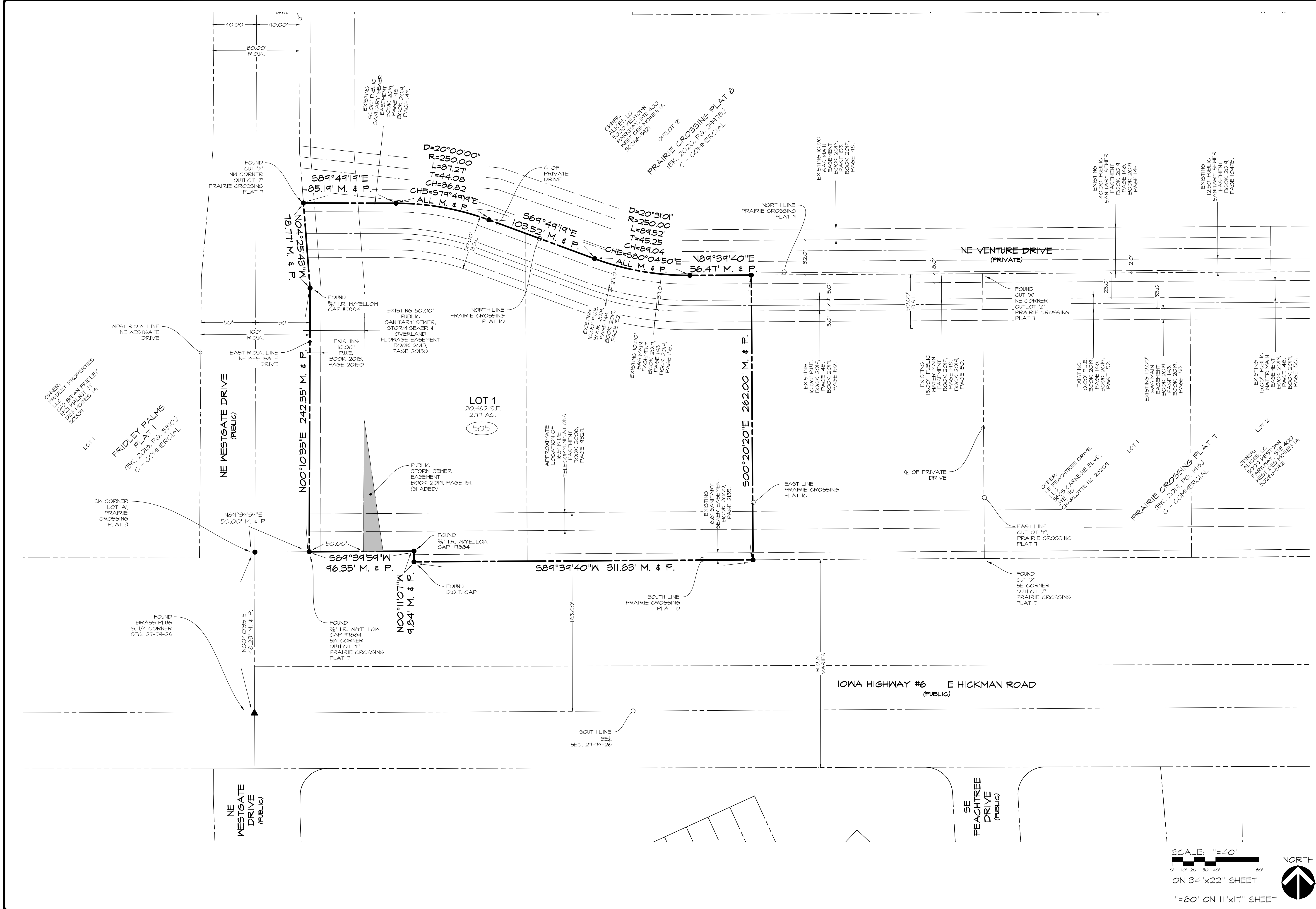
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PLOT BY: DAVID ZOBRIST - 2022/09/30 - G:\E-FILES\800\FR23\_CTD Drawings\Construction Documents\Site Plan\FR23\_SF NOTES & INFO.dwg | ANS1 EXPAND D (8400 X 2200 INCHES) - AUTOCAD PDF (GENERAL DOCUMENTATION)P3 - CEC-XES TEST.CTB - PLOT SCALE = 1:1





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PRELIMINARY

PRAIRIE CROSSING RETAIL

505 NE VENTURE DRIVE, WAUKEE, IOWA

GEOMETRIC SHEET

DATE:	September, 30, 2022
DATE OF SURVEY:	
DESIGNED BY:	PC
DRAWN BY:	MEH

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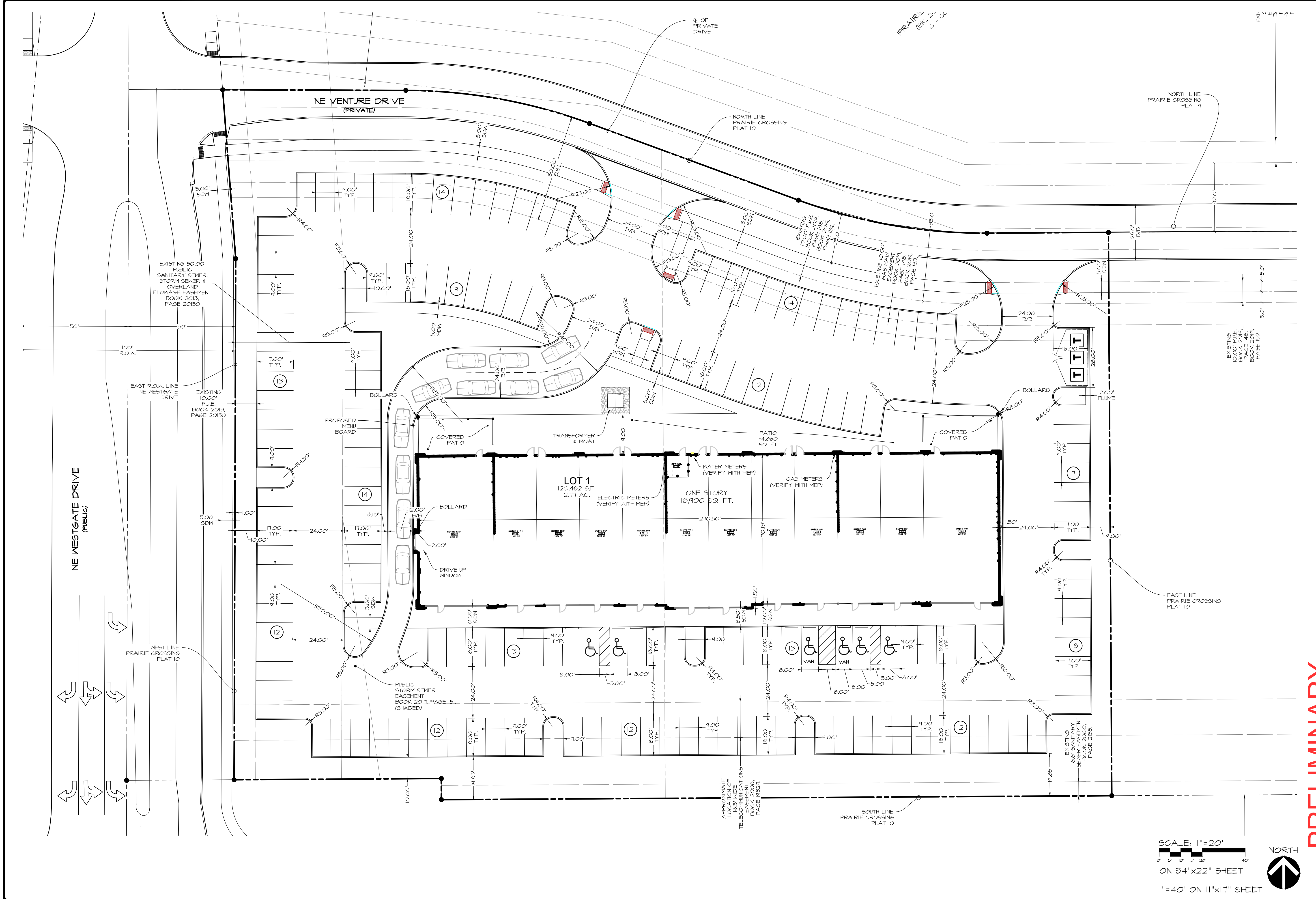
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515.276.4884 · mail@cecinc.com

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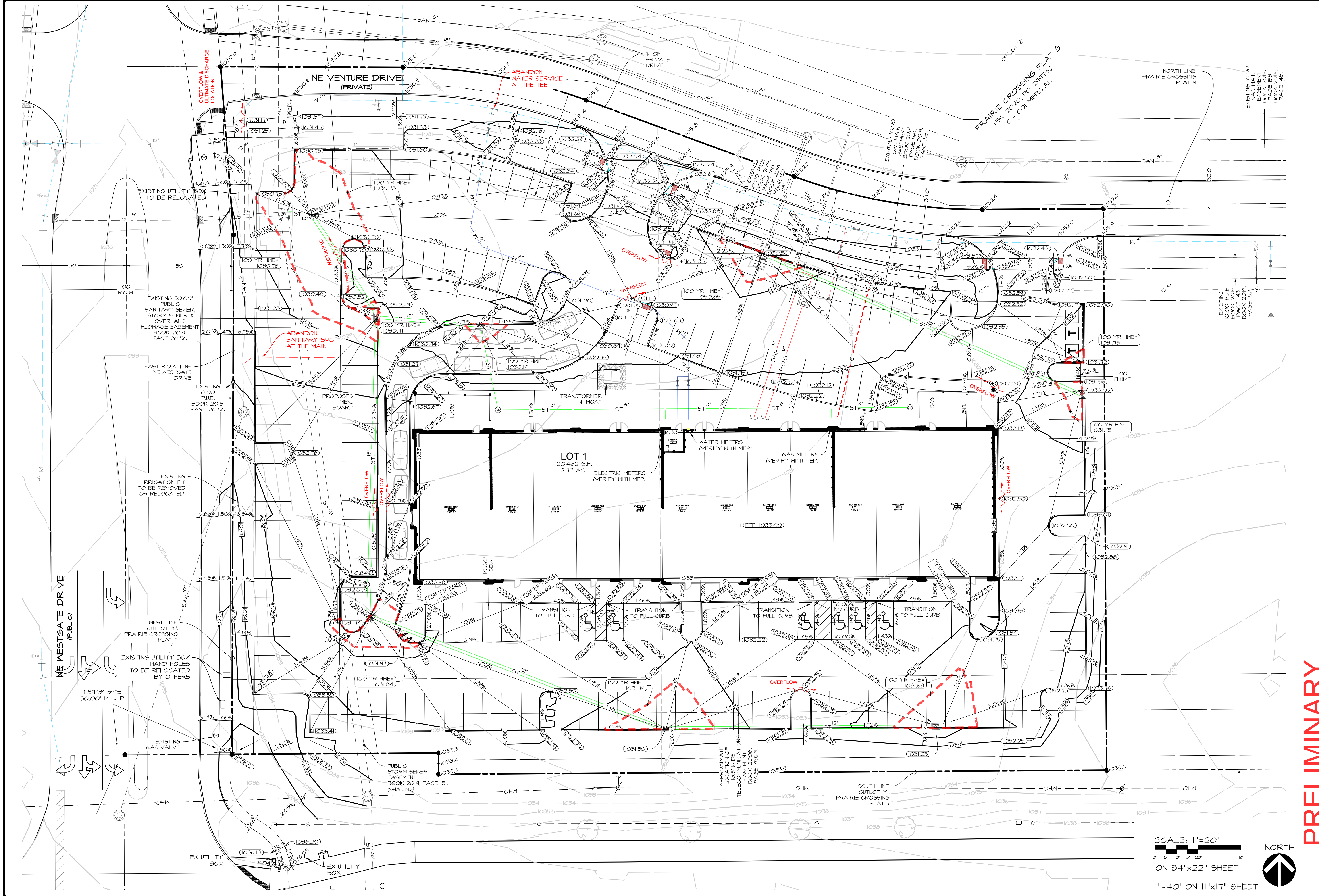
NORTH

**PRELIMINARY**  
**PRAIRIE CROSSING RETAIL**  
 505 NE VENTURE DRIVE, WAUKEE, IOWA  
**DIMENSION PLAN**

DATE: September 30, 2022  
 DATE OF SURVEY: PC  
 DESIGNED BY: MEH  
 DRAWN BY: MEH

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SCALE: 1"=20'  
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 ON 34"x22" SHEET  
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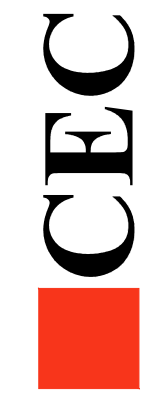
**PRELIMINARY**

**PRAIRIE CROSSING RETAIL**  
 505 NE VENTURE DRIVE, WAUKEE, IOWA  
**GRADING PLAN**

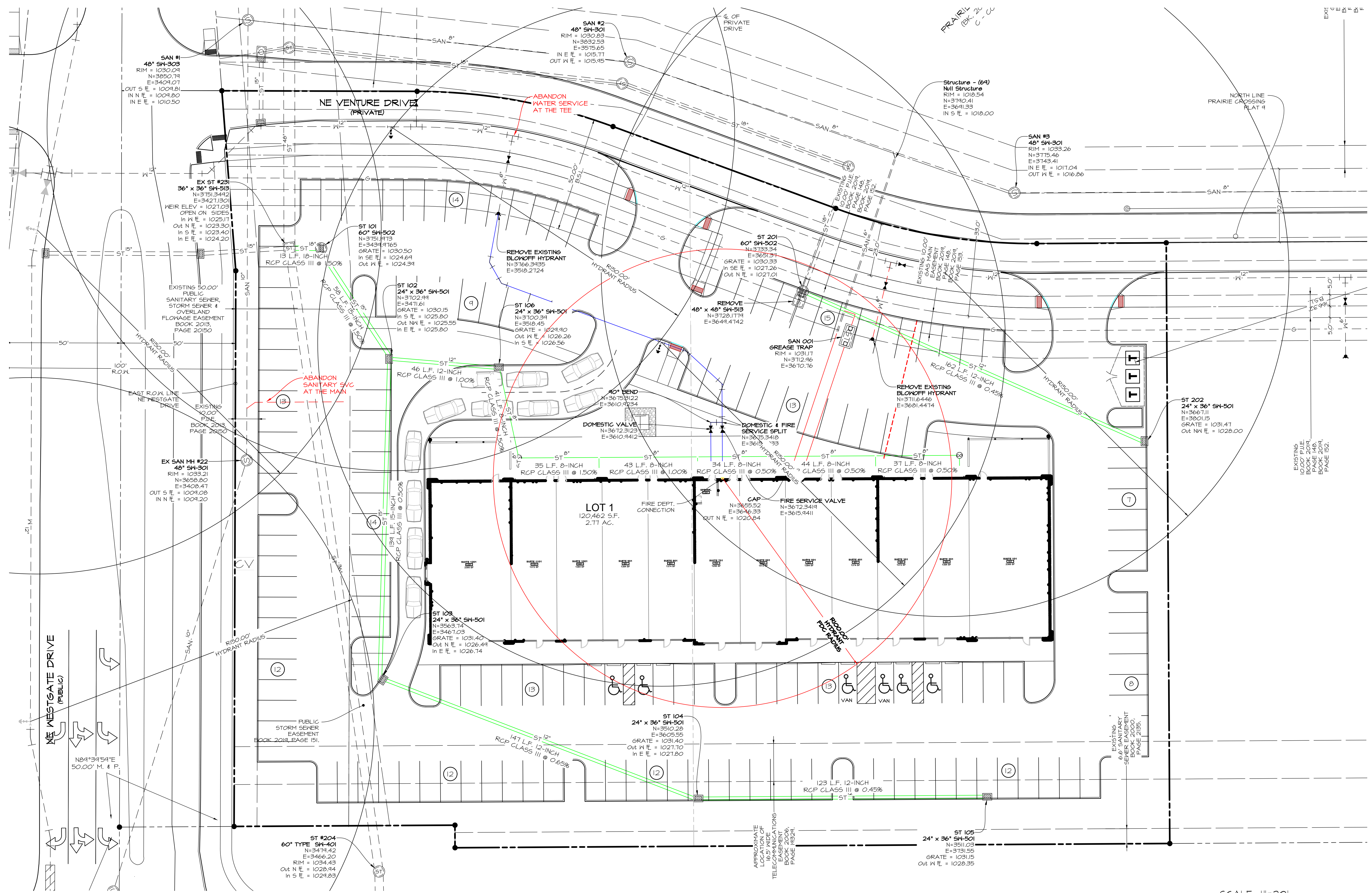
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DATE: September 30, 2022  
 DATE OF SURVEY: PC  
 DESIGNED BY: MEH  
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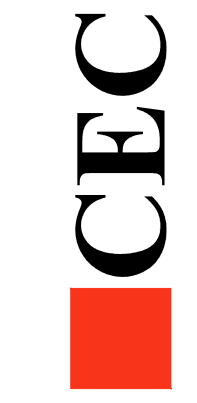
**PRELIMINARY**

**PRAIRIE CROSSING RETAIL**  
 505 NE VENTURE DRIVE, WAUKEE, IOWA  
**HYDRANT RADIUS PLAN**

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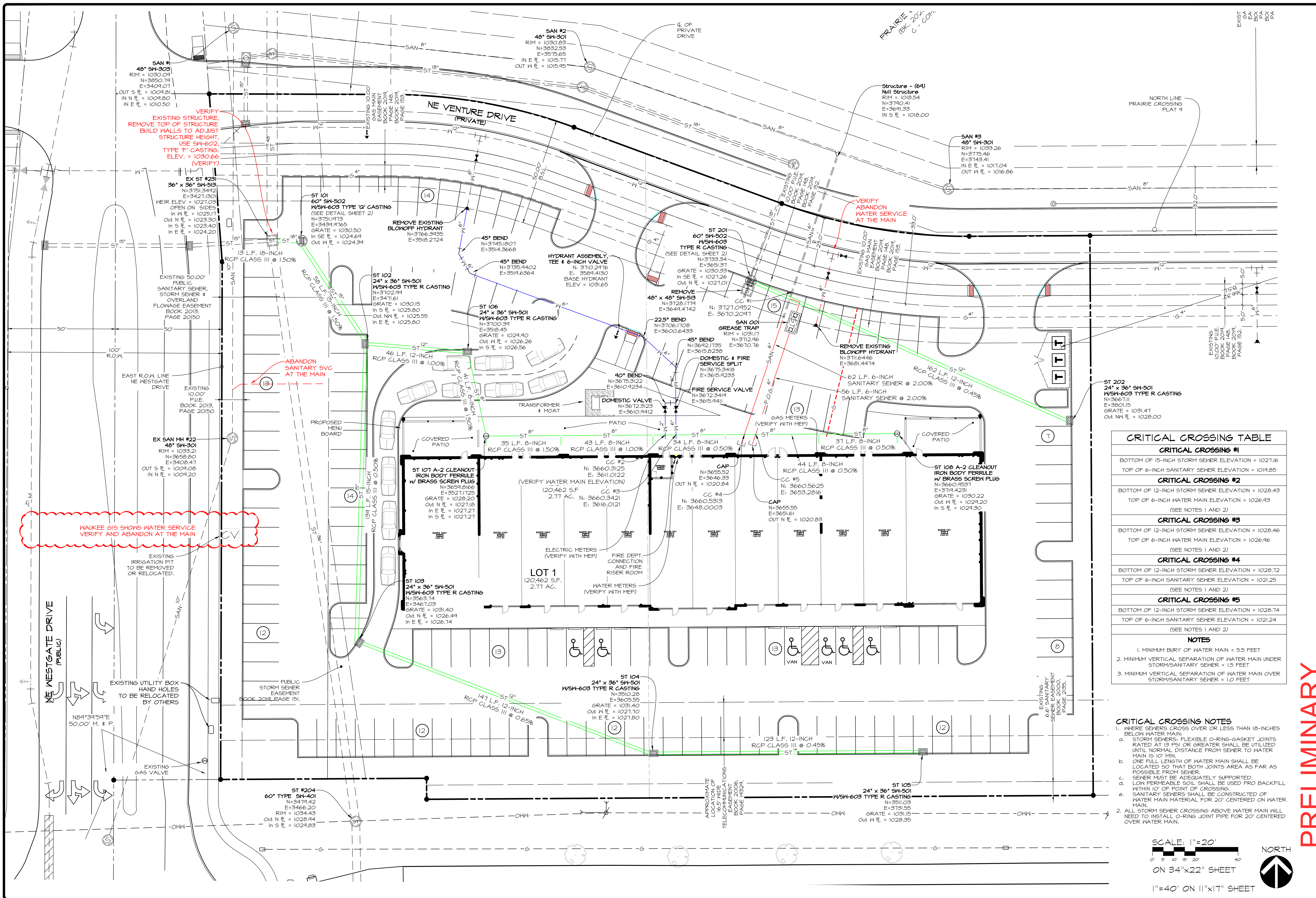
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DATE: September 30, 2022  
 DATE OF SURVEY:  
 DESIGNED BY: PC  
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Q:\E-FILES\800\0822\_CTD Drawings\Construction Documents\Site Plan\ER22.SP HYDRANT RADIUS.dwg 9/30/2022 4:06:30 PM - lsohnst, l1



VERIFY EXISTING STRUCTURE REMOVE TOP OF STRUCTURE BUILD WALLS TO ADJUST STRUCTURE HEIGHT USE SM-602 TYPE 'F' CASTING. ELEV. = 1030.66 (VERIFY)

ABANDON SANITARY SVC AT THE MAIN

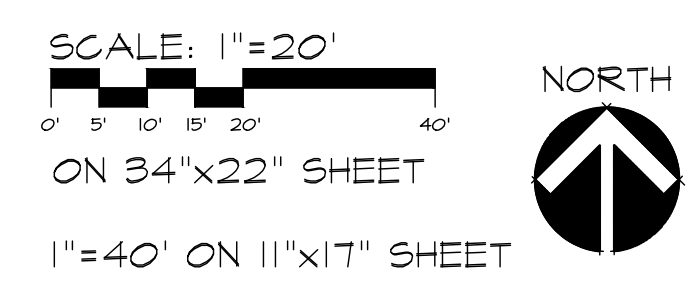
WAUKEE 615 SHOWS WATER SERVICE VERIFY AND ABANDON AT THE MAIN

VERIFY ABANDON WATER SERVICE AT THE MAIN

CRITICAL CROSSING TABLE	
<b>CRITICAL CROSSING #1</b>	BOTTOM OF 15-INCH STORM SEWER ELEVATION = 1027.16 TOP OF 6-INCH SANITARY SEWER ELEVATION = 1019.85
<b>CRITICAL CROSSING #2</b>	BOTTOM OF 12-INCH STORM SEWER ELEVATION = 1028.43 TOP OF 6-INCH WATER MAIN ELEVATION = 1026.93 (SEE NOTES 1 AND 2)
<b>CRITICAL CROSSING #3</b>	BOTTOM OF 12-INCH STORM SEWER ELEVATION = 1028.46 TOP OF 6-INCH WATER MAIN ELEVATION = 1026.96 (SEE NOTES 1 AND 2)
<b>CRITICAL CROSSING #4</b>	BOTTOM OF 12-INCH STORM SEWER ELEVATION = 1028.72 TOP OF 6-INCH SANITARY SEWER ELEVATION = 1021.25 (SEE NOTES 1 AND 2)
<b>CRITICAL CROSSING #5</b>	BOTTOM OF 12-INCH STORM SEWER ELEVATION = 1028.74 TOP OF 6-INCH SANITARY SEWER ELEVATION = 1021.24 (SEE NOTES 1 AND 2)
<b>NOTES</b>	
1. MINIMUM BURY OF WATER MAIN = 5.5 FEET	
2. MINIMUM VERTICAL SEPARATION OF WATER MAIN UNDER STORM/SANITARY SEWER = 1.5 FEET	
3. MINIMUM VERTICAL SEPARATION OF WATER MAIN OVER STORM/SANITARY SEWER = 1.0 FEET	

**CRITICAL CROSSING NOTES**

- WHERE SEWERS CROSS OVER OR LESS THAN 18-INCHES BELOW WATER MAIN:
  - STORM SEWERS: FLEXIBLE O-RING-GASKET JOINTS RATED AT 13 PSI OR GREATER SHALL BE UTILIZED UNTIL NORMAL DISTANCE FROM SEWER TO WATER MAIN IS 10' MIN.
  - ONE FULL LENGTH OF WATER MAIN SHALL BE LOCATED SO THAT BOTH JOINTS AREA AS FAR AS POSSIBLE FROM SEWER.
  - SEWER MUST BE ADEQUATELY SUPPORTED.
  - LOW PERMEABLE SOIL SHALL BE USED FRO BACKFILL WITHIN 10' OF POINT OF CROSSING.
  - SANITARY SEWERS SHALL BE CONSTRUCTED OF WATER MAIN MATERIAL FOR 20' CENTERED ON WATER MAIN.
- ALL STORM SEWER CROSSING ABOVE WATER MAIN WILL NEED TO INSTALL O-RING JOINT PIPE FOR 20' CENTERED OVER WATER MAIN.



**PRELIMINARY**

**PRAIRIE CROSSING RETAIL**  
505 NE VENTURE DRIVE, WAUKEE, IOWA

**UTILITY PLAN**

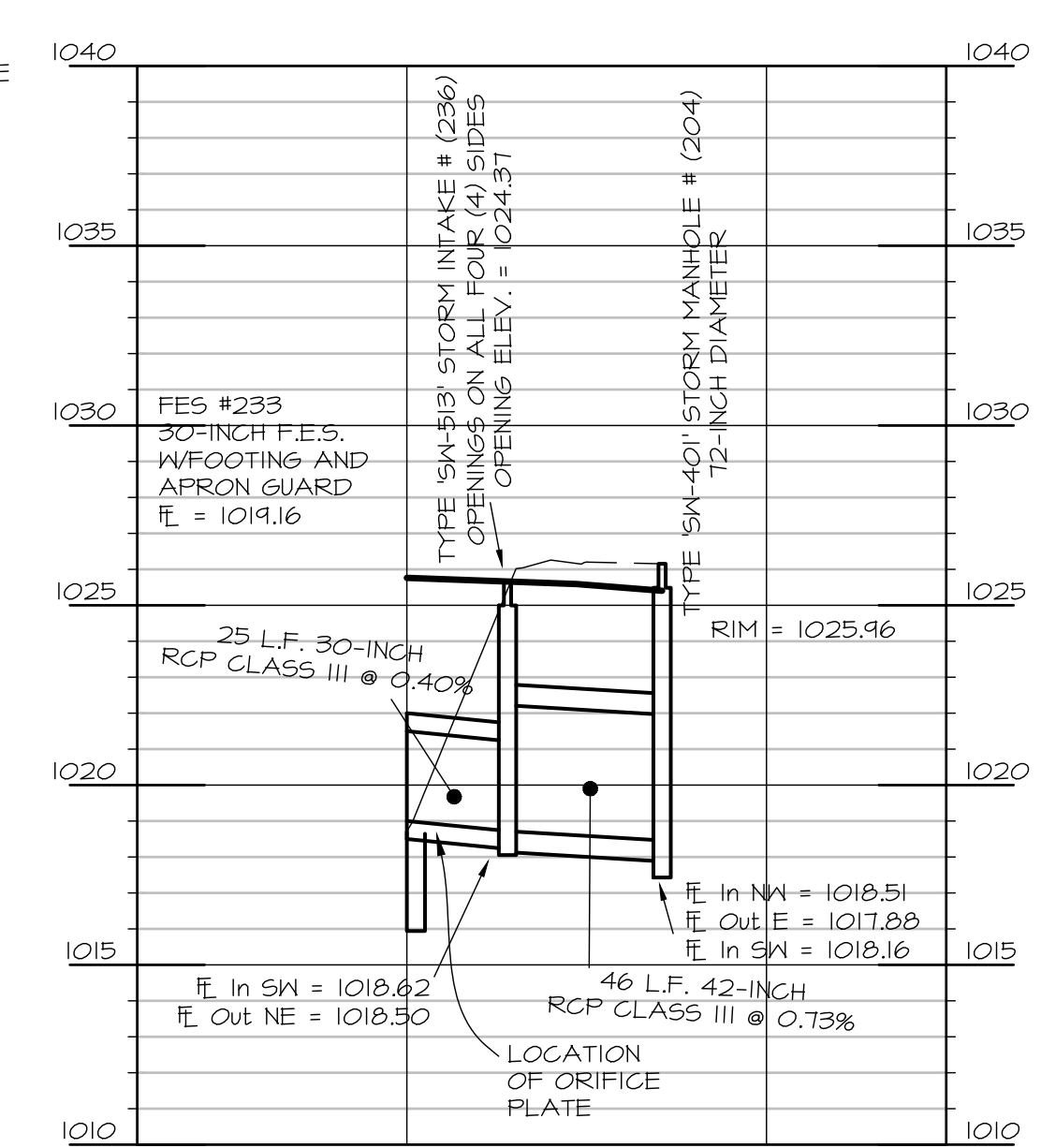
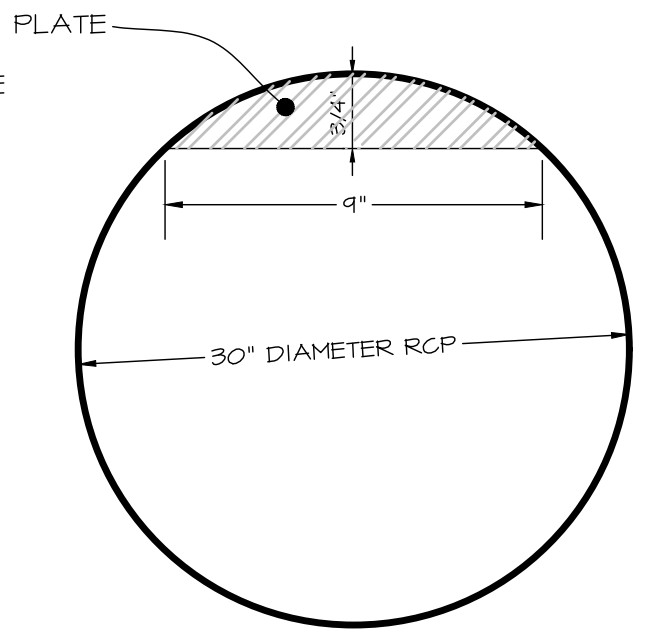
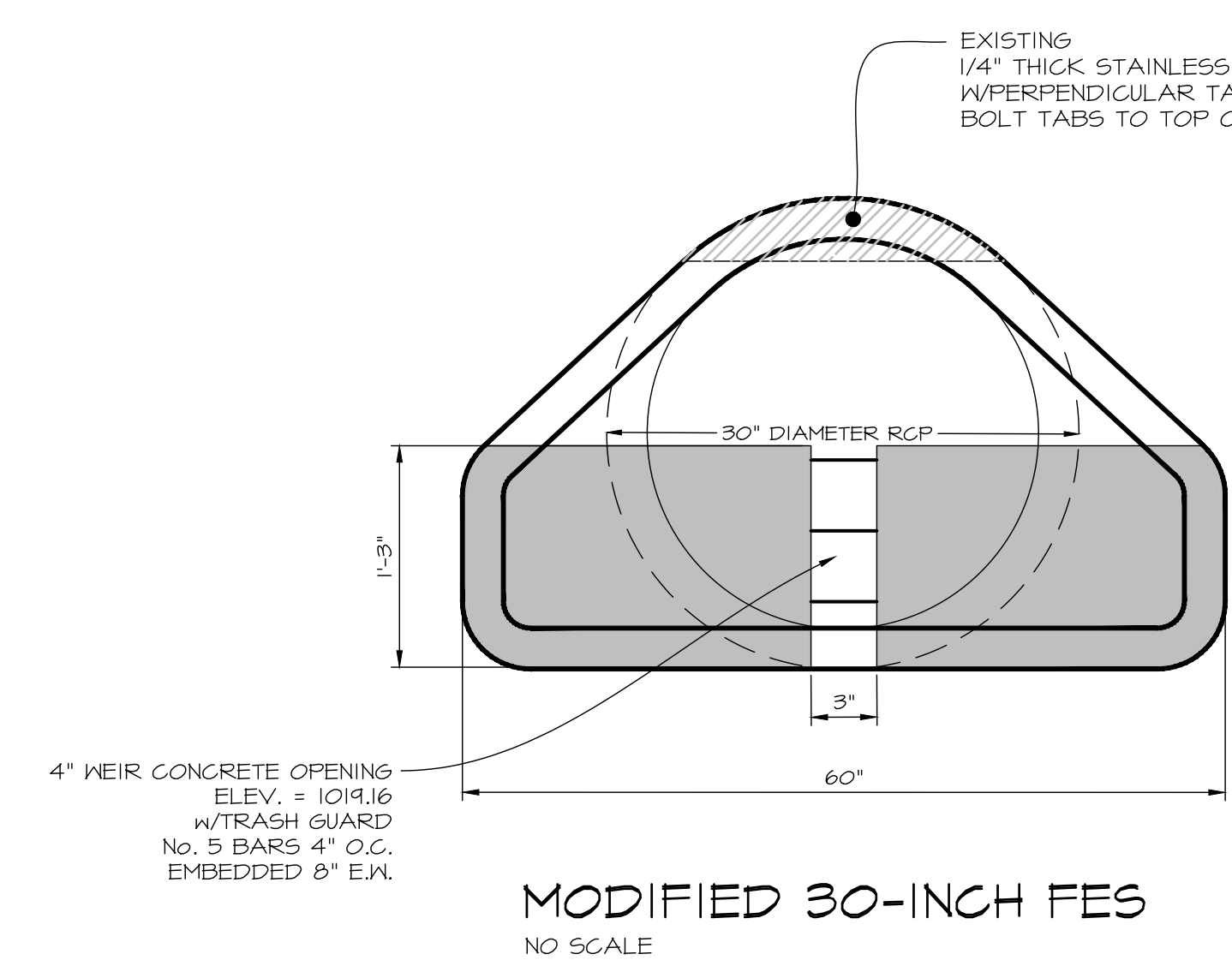
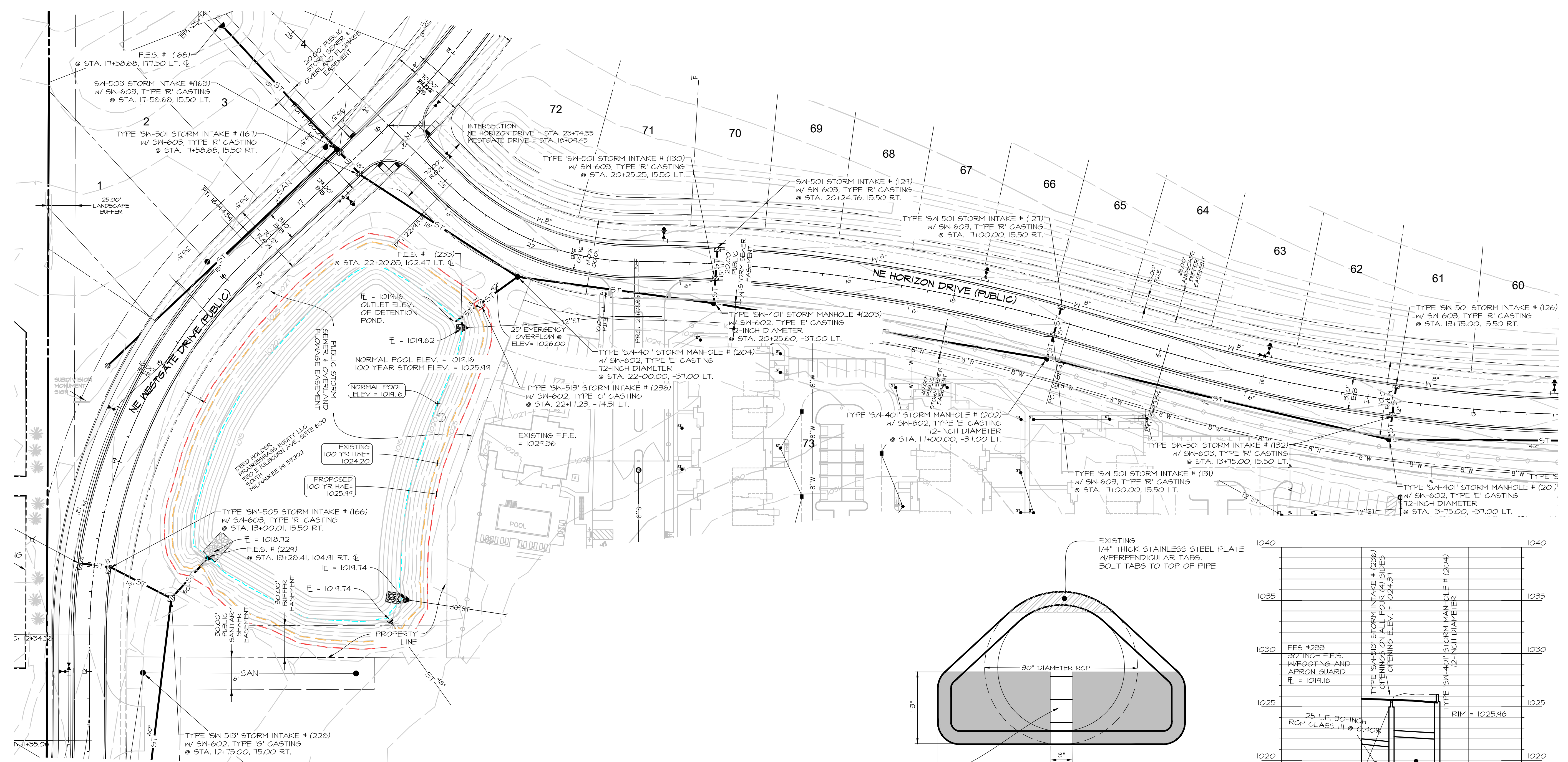
DATE: September 30, 2022  
DATE OF SURVEY: PC  
DESIGNED BY: MEH  
DRAWN BY:

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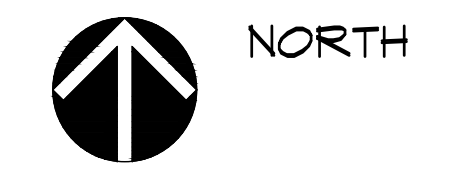
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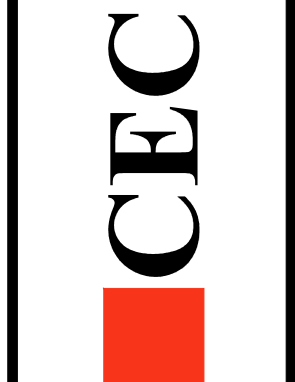
- LEGEND**
- EXISTING/PROPOSED
  - - - SAN 8" PLAT BOUNDARY
  - - - ST 18" SANITARY SEWER & SIZE
  - - - W 8" STORM SEWER & SIZE
  - - - W 8" WATER MAIN & SIZE
  - MANHOLE
  - STORM INTAKE
  - ▽ FIRE HYDRANT
  - ▽ VALVE
  - ▽ FLARED END SECTION

SCALE: 1"=50'  
0' 10' 20' 30' 40' 50' 100'  
ON 34"x22" SHEET  
1"=100' ON 11"x17" SHEET



**PRELIMINARY**  
**PRAIRIE CROSSING RETAIL**  
 505 NE VENTURE DRIVE, WAUKEE, IOWA  
**EXISTING POND MODIFICATION**

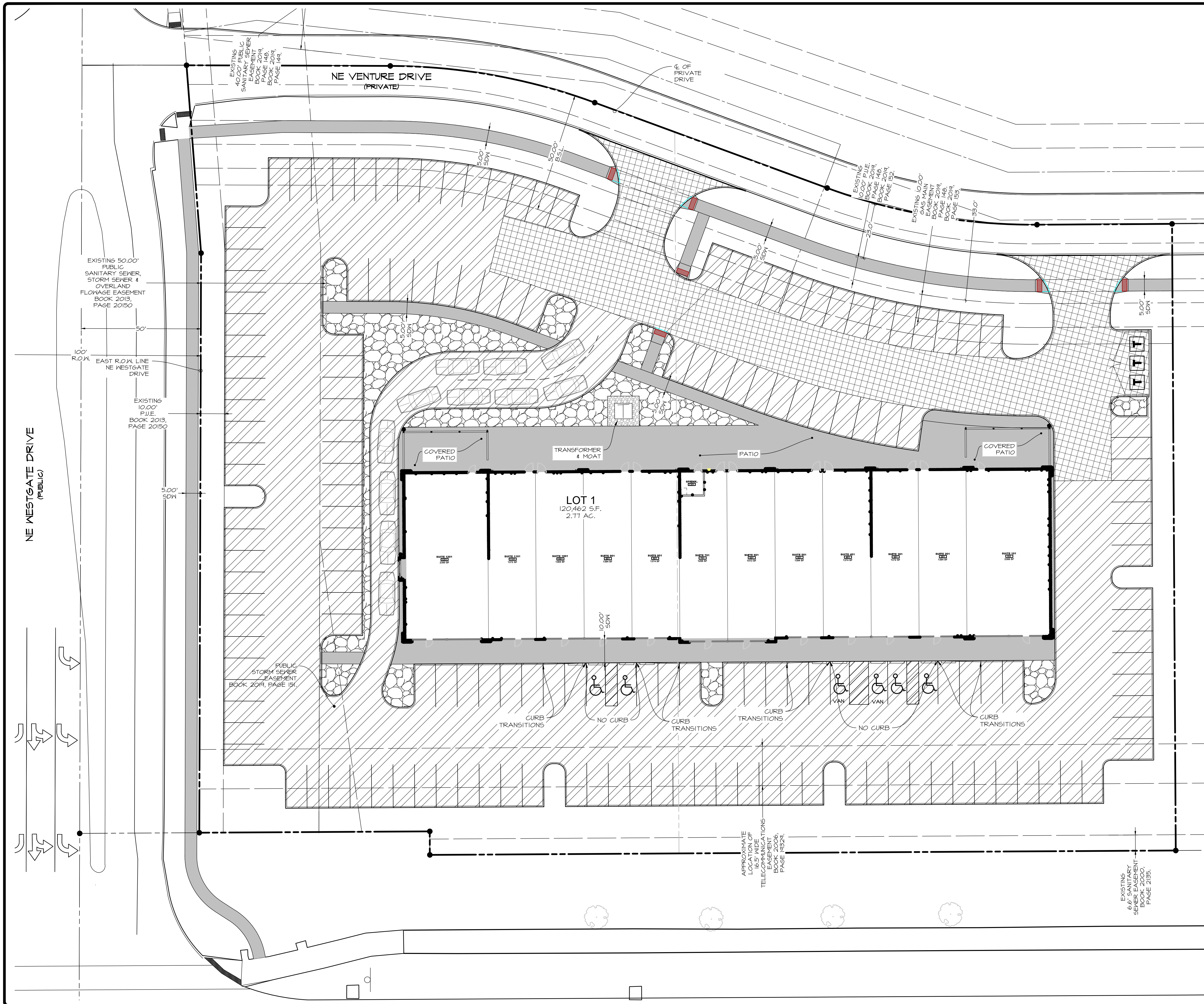
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DATE: September 30, 2022  
 DATE OF SURVEY:  
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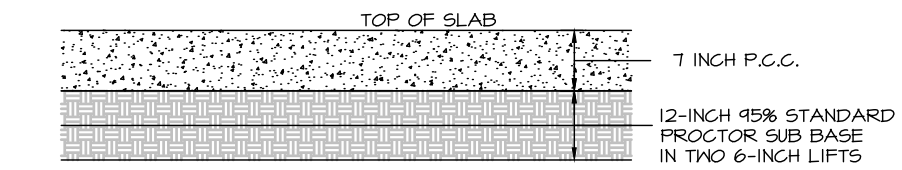
**PAVING LEGEND**

THICKNESS TO ADHERE TO GEOTECHNICAL ENGINEERS RECOMMENDATIONS

7 INCH NON REINFORCED P.C.C.	± 1140 SQ. YDS.
6 INCH NON REINFORCED P.C.C.	± 5371 SQ. YDS.
5 INCH NON REINFORCED P.C.C.	± 1425 SQ. YDS.
LANDSCAPING ROCK	± 510 SQ. YDS.

**PCC PAVEMENT NOTES**

1. ALL PAVING SHALL BE IN ACCORDANCE WITH SDAS STANDARD SPECIFICATIONS, 2022 VERSION.
2. PAVEMENT SHALL CONFORM TO THE ALLENDER BUTZKE GEOTECHNICAL REPORT NO. FN 221859.
3. CURBS SHALL BE CAST INTEGRAL WITH CONCRETE PAVEMENT UNLESS NOTED OTHERWISE. EDGES SHALL BE ROUNDED BUT NOT ROLLED.
4. PCC SIDEWALKS SHALL BE 5 INCHES THICK. SIDEWALKS WITHIN THE SITE SHALL HAVE TRANSVERSE CONSTRUCTION JOINTS SPACING SHALL BE AT 5 FEET. EXPANSION JOINTS WHERE WALK MEETS OTHER WALKS, BACK OF CURBS, FIXTURES OR OTHER STRUCTURES, AND AT INTERVALS NOT EXCEEDING 50 FEET.
5. ALL PAVEMENT HAS CURBS UNLESS NOTED OTHERWISE.



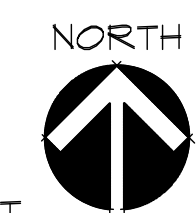
**7 INCH PCC PAVING SECTION**

NO SCALE

SCALE: 1"=20'

ON 34"x22" SHEET

1"=40' ON 11"x17" SHEET



**PRELIMINARY**

**PRAIRIE CROSSING RETAIL**  
505 NE VENTURE DRIVE, WAUKEE, IOWA

**PAVING PLAN**

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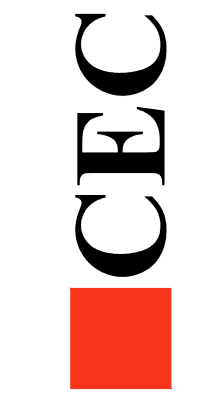
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DATE OF SURVEY: PC

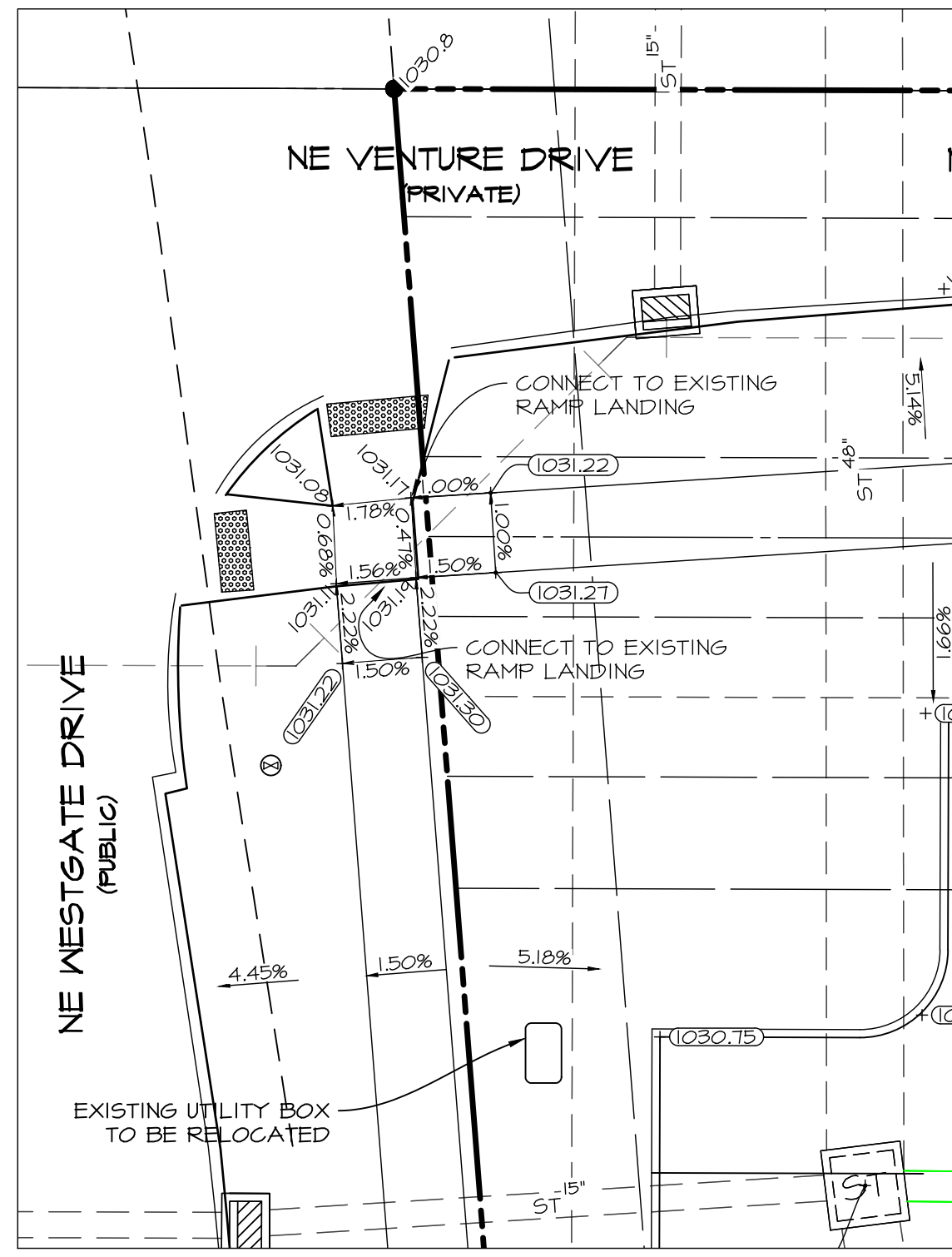
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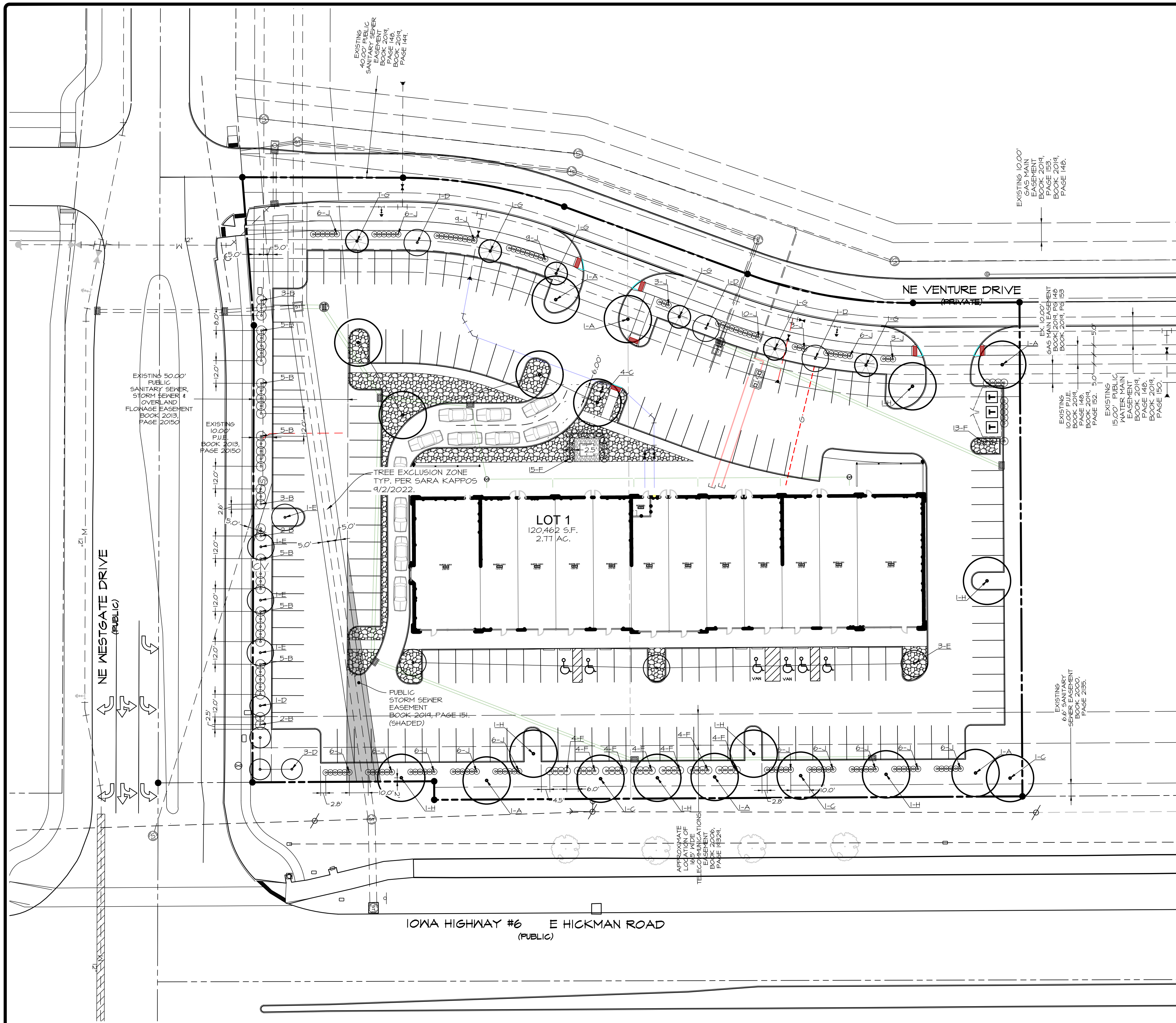
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**PLANT SCHEDULE**

MARK	Botanical name COMMON NAME	QUAN.	SIZE	ROOT TYPE	REMARKS
A	Acer saccharum subsp. nigrum 'Green Column' GREEN COLUMN MAPLE	6	1.5" CAL.	B&B	MATCHED, SPECIMEN
B	Cotoneaster nanshan CREEPING COTONEASTER	30	3 GAL.	CONT.	MATCHED, SPECIMEN
C	Liriodendron tulipifera 'JFS-O2' EMERALD CITY TULIP TREE	7	1.5" CAL.	B&B	MATCHED, SPECIMEN
D	Malus 'Hozam' HOLIDAY GOLD CRABAPPLE	7	1" CAL.	CONT.	MATCHED, SPECIMEN
E	Malus 'Suryam' SUGAR TYME CRABAPPLE	7	1" CAL.	CONT.	MATCHED, SPECIMEN
F	Philadelphus 'Snowbelle' SNOWBELLE MOCK ORANGE	56	3 GAL.	CONT.	MATCHED, SPECIMEN, MULCH BED
G	Pinus flexilis 'Vanderwolf's Pyramid' VANDERWOLF'S PYRAMID LIMBER PINE	6	7' HT.	B&B	MATCHED, SPECIMEN
H	Quercus macrocarpa 'JFS-KW3' URBAN PINNACLE OAK	7	1.5" CAL.	B&B	MATCHED, SPECIMEN
J	Spiraea betulifolia 'Tor' TOR JAPANESE SPIREA	115	3 GAL.	CONT.	MATCHED, SPECIMEN, MULCH BED

**NOTES**

- MULCH BEDS: 3" SHREDDED HARDWOOD MULCH - NATURAL COLOR.
- SOD ALL DISTURBED AREAS INCLUDING DISTURBED R.O.N.
- ALL MULCH BEDS TO HAVE SPADE CUT EDGE UNLESS NOTED OTHERWISE.
- ROOT FLARE TO BE AT OR ABOVE FINISHED GRADE TYPICAL.
- IF THERE IS A QUANTITY DISCREPANCY, PLAN QUANTITY GOVERNS.

**SIZES NOTED IN PLANT SCHEDULE ARE STRICT MINIMUM SIZES AND WILL BE VERIFIED DURING INITIAL ACCEPTANCE INSPECTION.**

**MINIMUM OF 10% OF EACH SPECIES SPECIFIED ARE TO HAVE PLANT IDENTIFICATION TAGS ATTACHED DURING INITIAL ACCEPTANCE. TAGS SHALL BE REMOVED AFTER PLANT MATERIAL HAS BEEN ACCEPTED.**

**ALL DECIDUOUS TREES ARE TO BE WRAPPED WITH TREE WRAP AND SHALL BE ATTACHED WITH COTTON STRINGS. TAPES AND PLASTIC FASTENERS ARE NOT ACCEPTABLE.**

**LANDSCAPING CALCULATIONS:**

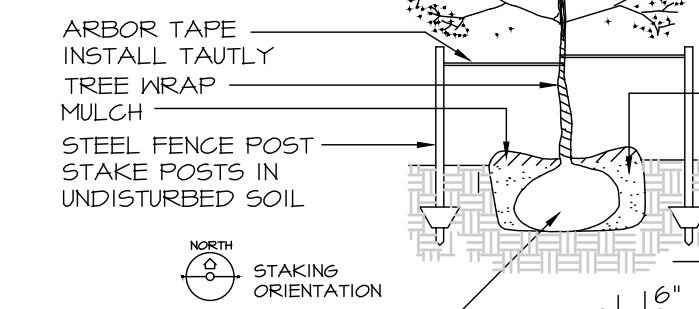
- OPEN SPACE REQUIREMENT: 20% OPEN SPACE REQUIRED.  
SITE AREA: 120,462 \* 20% = 24,092 S.F. REQ'D.  
OPEN SPACE PROVIDED: 28,460 S.F. (23.6%)
- 1 TREE + 1 SHRUB / 1000 S.F. REQUIRED OPEN SPACE.  
24,092 / 1000 = 24 PLANT UNITS OF 1 TREE + 1 SHRUB.
- 50% REQUIRED TREES TO BE OVERSTORY AND 25% REQUIRED TREES TO BE EVERGREEN.
- REQUIRED MINIMUMS: 12 OVERSTORY TREES + 6 EVERGREEN TREES + 24 SHRUBS.  
PROVIDED: 20 OVERSTORY TREES
- 6 EVERGREEN TREES  
14 UNDERSTORY TREES  
222 SHRUBS
- NO BUFFERS REQUIRED.

**PLANTING REGULATORY MINIMUM SIZES:**

- DECIDUOUS OVERSTORY: 8' HT.
- EVERGREEN OVERSTORY: 6' HT.
- DECIDUOUS ORNAMENTAL TREES: 6' HT.

SEE PLANT SCHEDULE FOR PLANT SIZES THIS SITE PLAN.

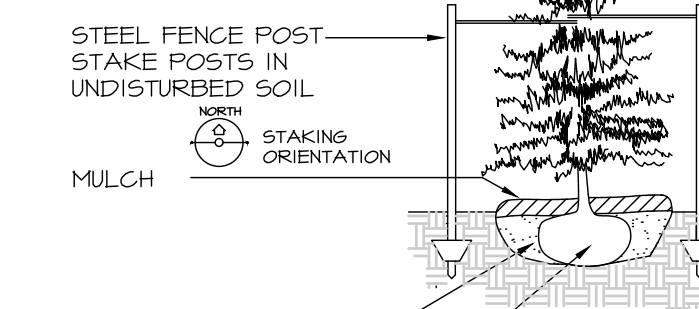
DO NOT CUT OR DAMAGE LEADER. ALL MATERIALS AS SPECIFIED.



ROOT BALL: REMOVE ENTIRE CONTAINER (CONTAINER GROWN) OR CUT ALL CORDS AND REMOVE COVERING FROM TOP OF ROOT BALL (BALL & BURLAPPED)

**DECIDUOUS TREE PLANTING AND STAKING DETAIL**  
NO SCALE

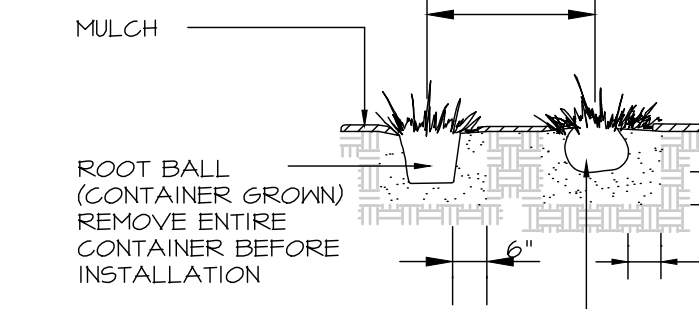
DO NOT CUT OR DAMAGE LEADER. ALL MATERIALS AS SPECIFIED.



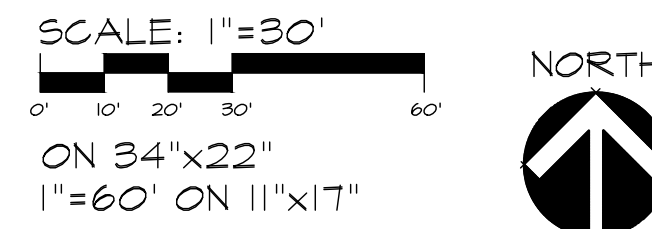
ROOT BALL: REMOVE ENTIRE CONTAINER (CONTAINER GROWN) OR CUT ALL CORDS AND REMOVE COVERING FROM TOP OF ROOT BALL (BALL & BURLAPPED)

**EVERGREEN TREE PLANTING AND STAKING DETAIL**  
NO SCALE

MULCH: ALL MATERIALS AS SPECIFIED-SEE SITE PLANS FOR SPACING



**SHRUB PLANTING DETAIL**  
NO SCALE



**PRELIMINARY**

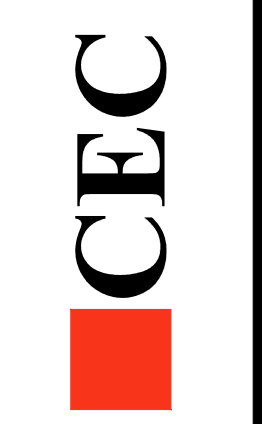
**PRAIRIE CROSSING RETAIL**  
505 NE VENTURE DRIVE, WAUKEE, IOWA  
**LANDSCAPING PLAN**

**SHEET**  
**16**

E0822

DATE: September 30, 2022  
DATE OF SURVEY: PC  
DESIGNED BY: REH  
DRAWN BY:

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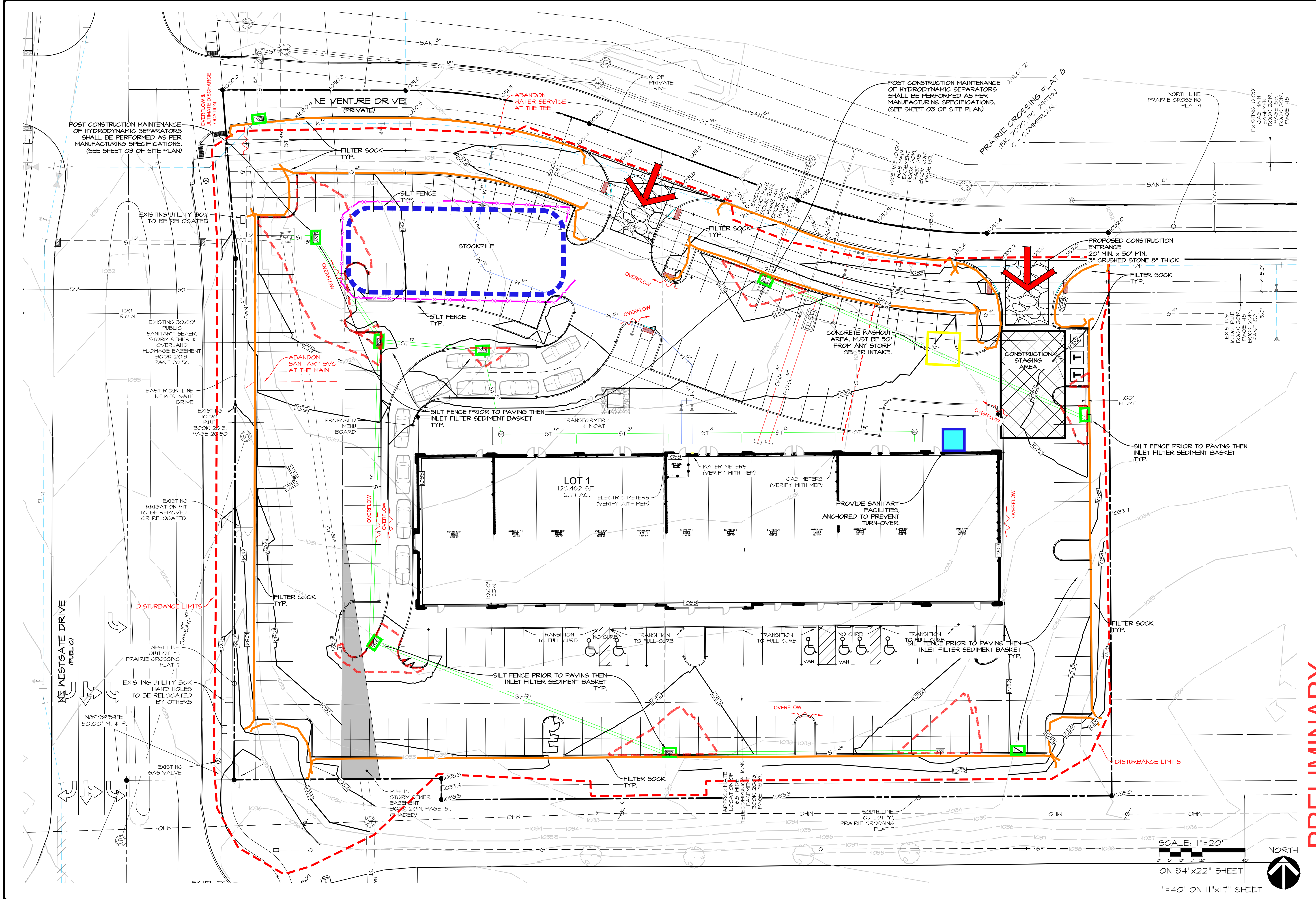
I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

BY: KENT R. ZARLEY DATE: IOWA REG. NO. 251  
MY LICENSE RENEWAL DATE IS: JUNE 30, 2023  
PAGES OR SHEETS COVERED BY THIS SEAL:  
THIS SHEET ONLY

**PRELIMINARY**



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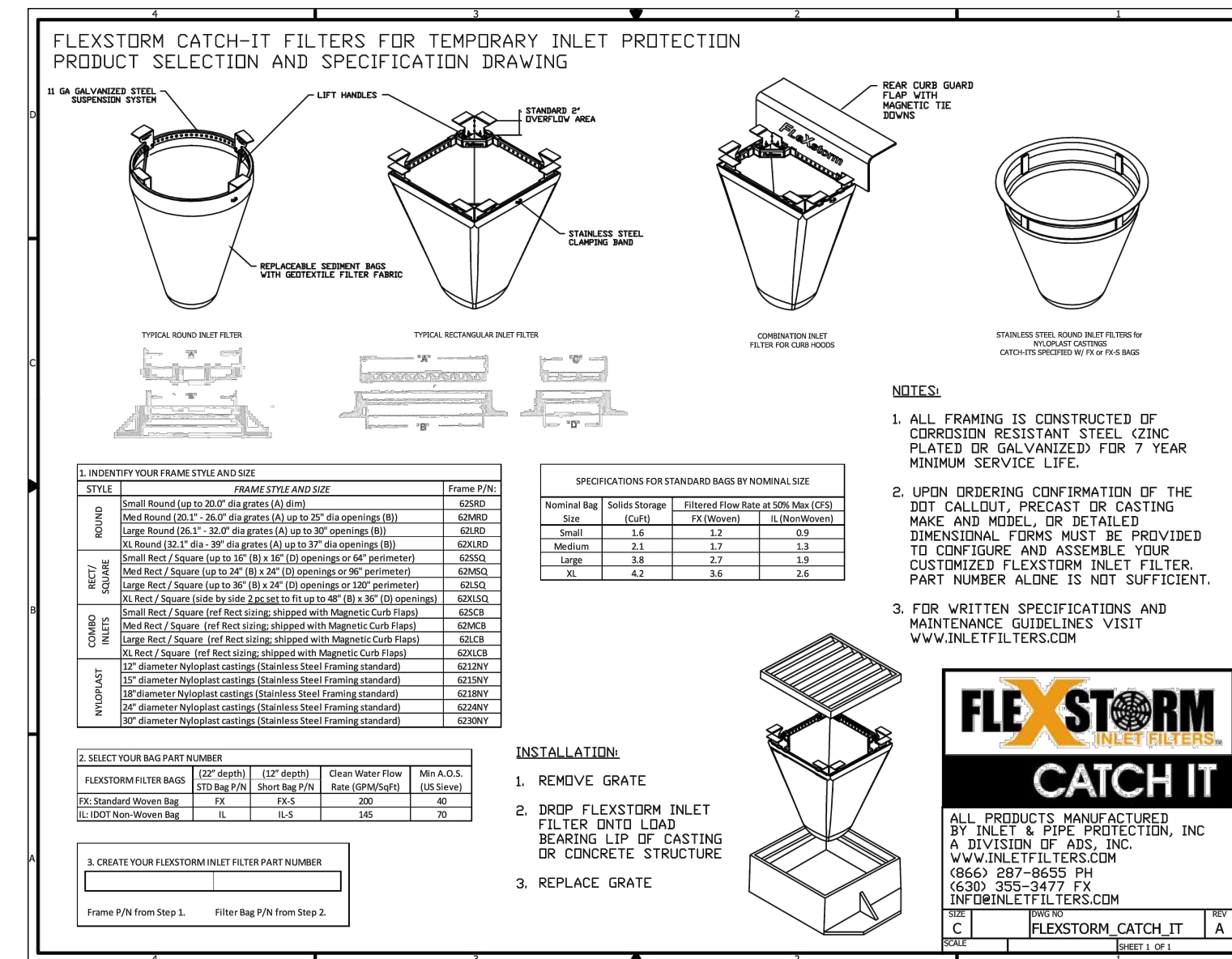
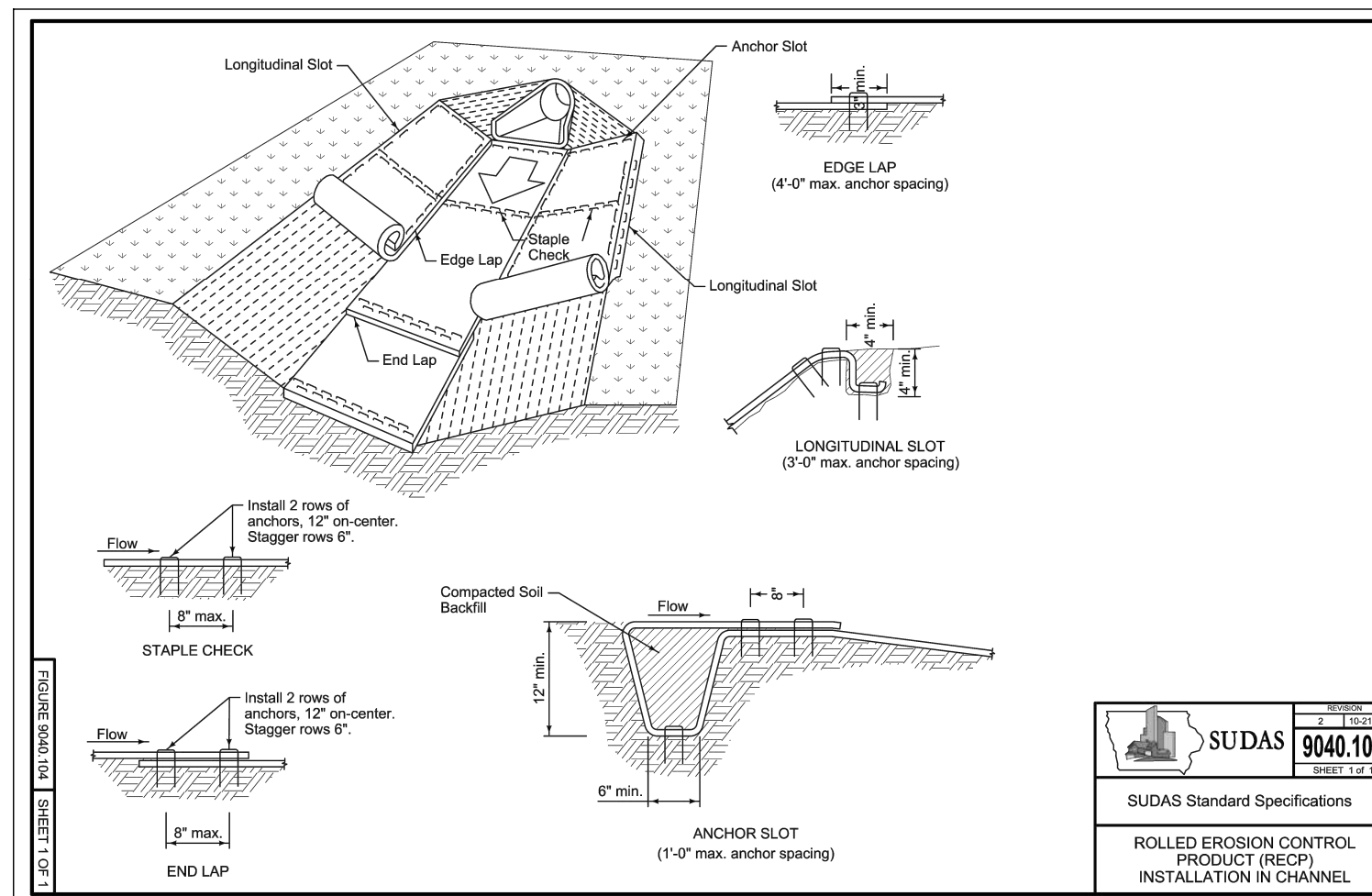
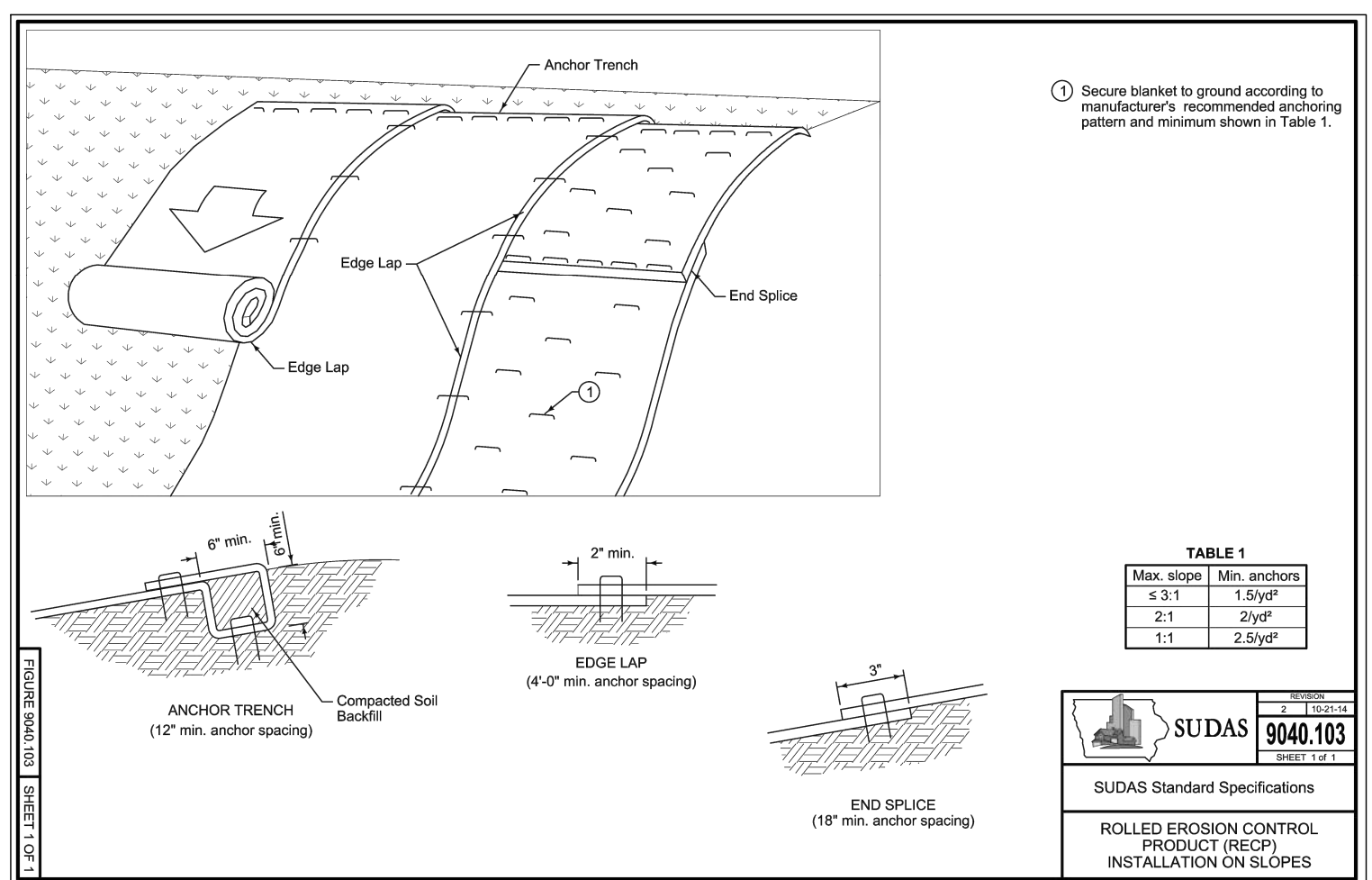
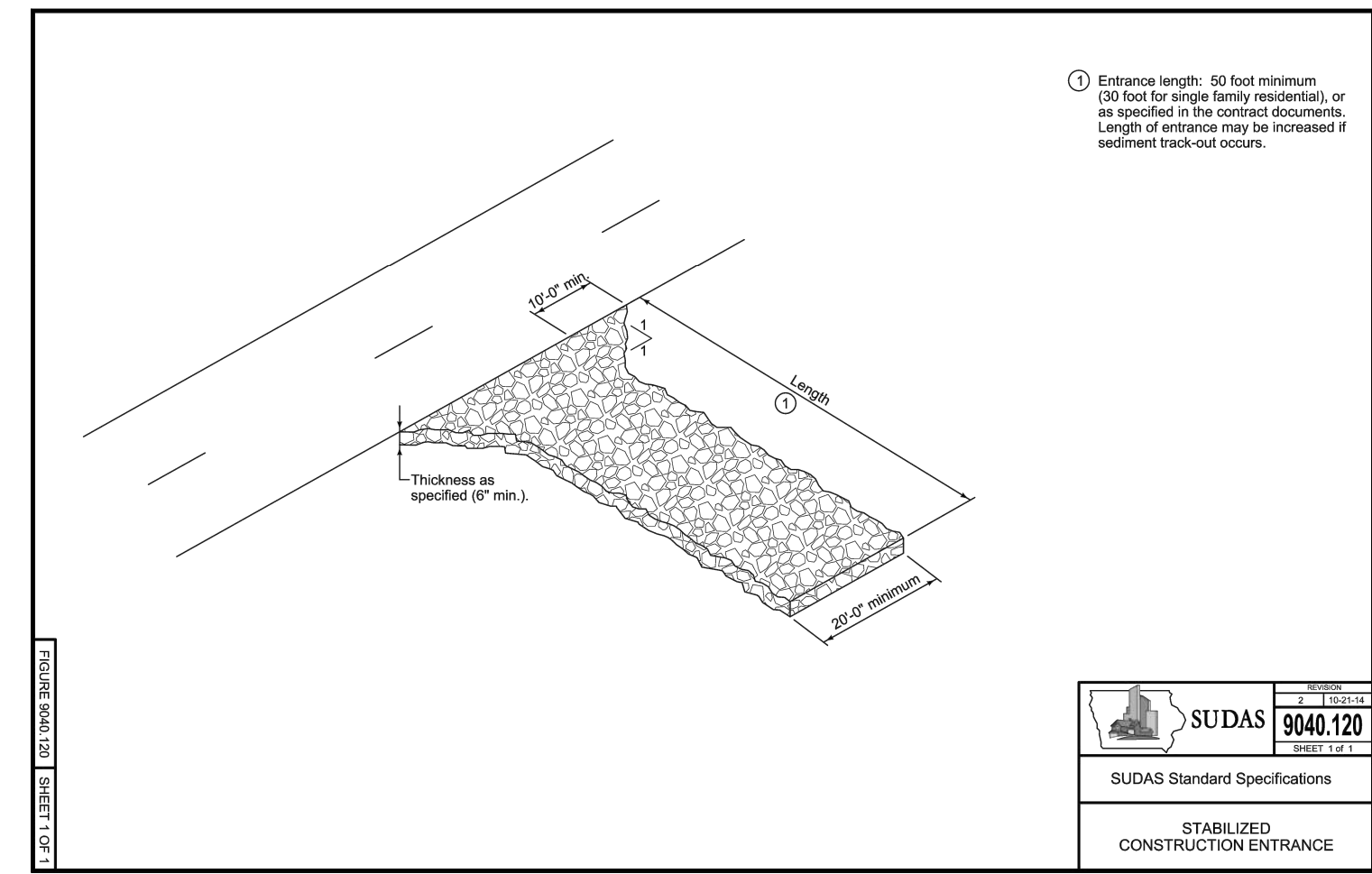
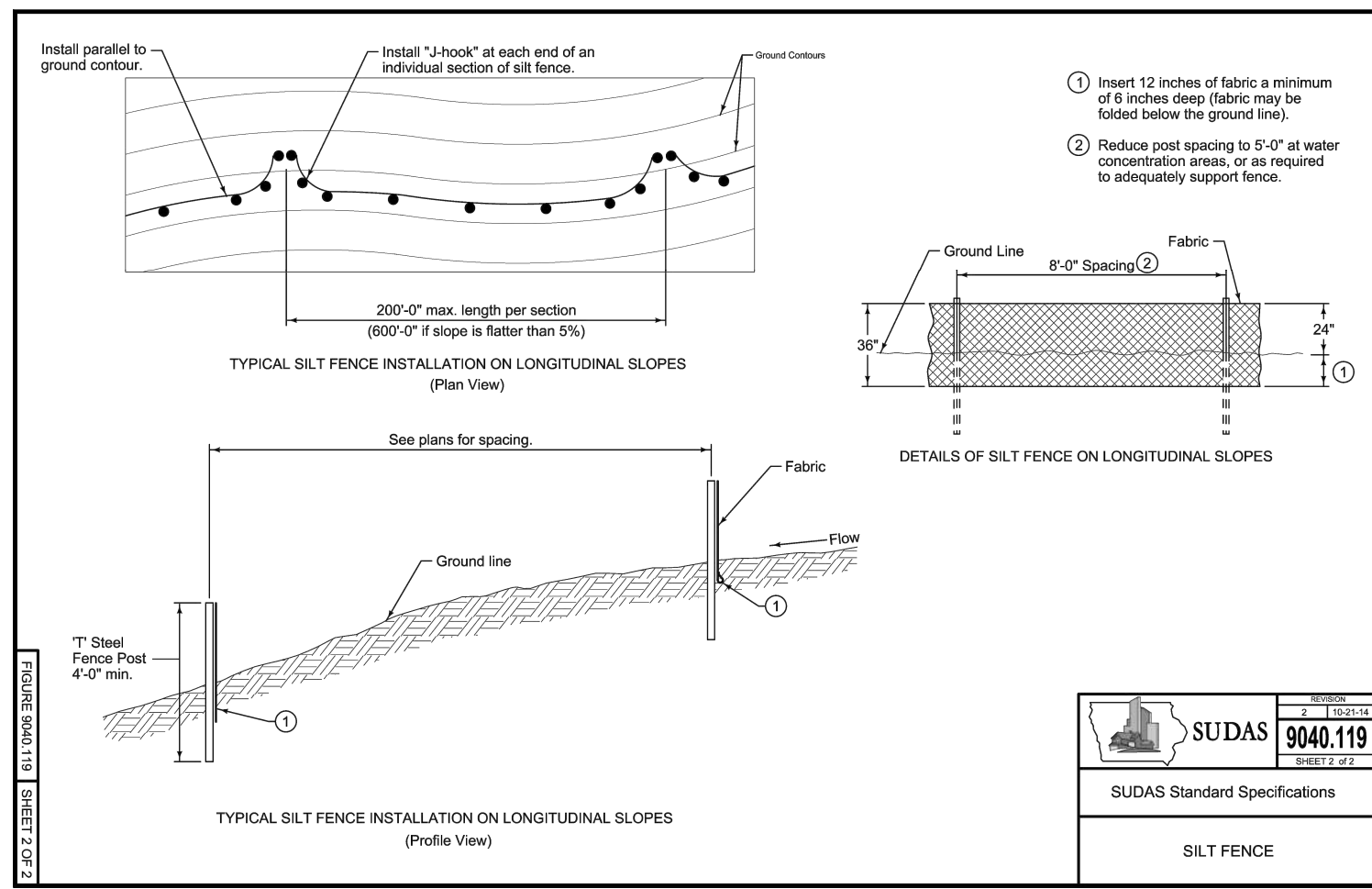
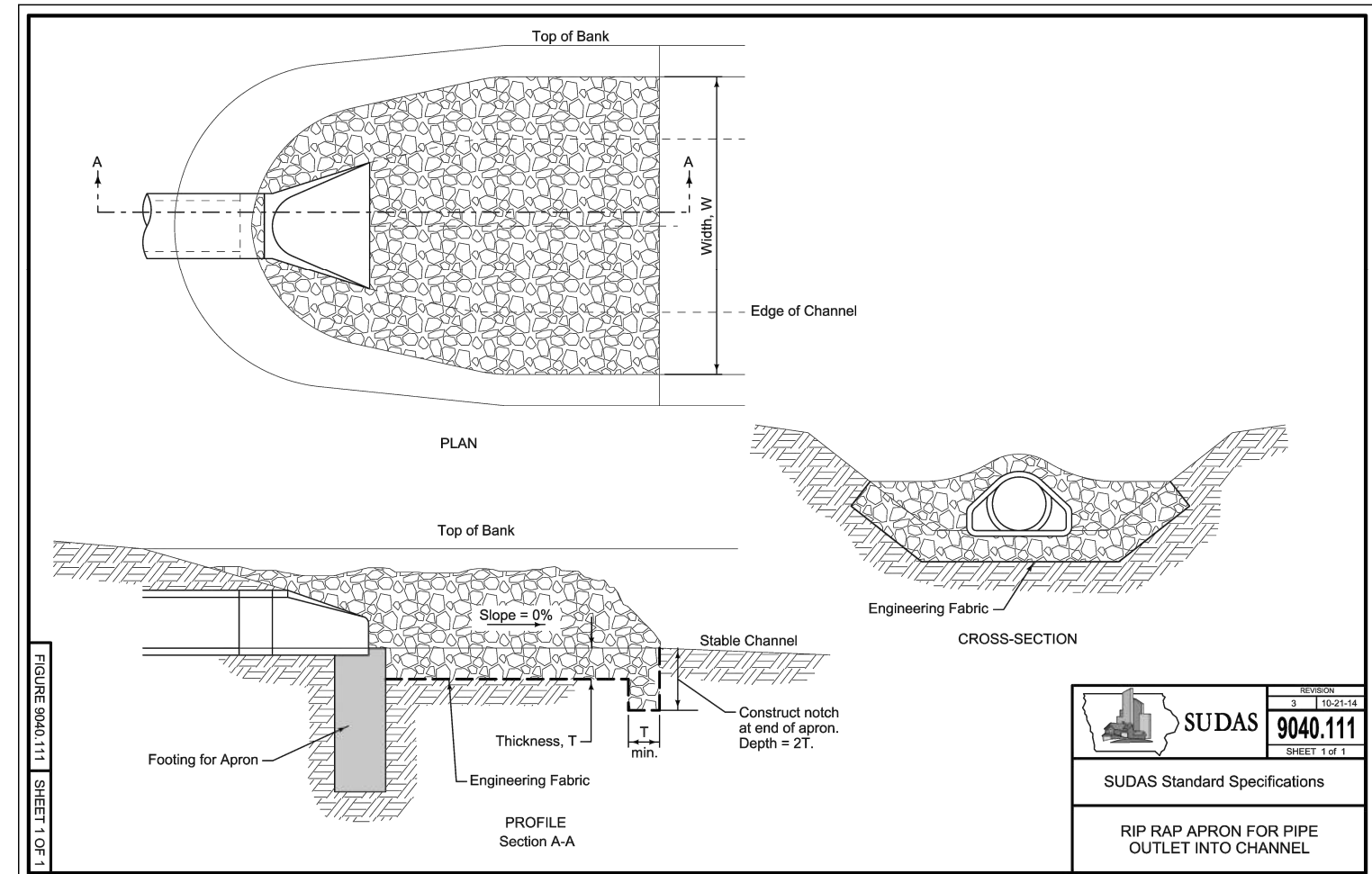
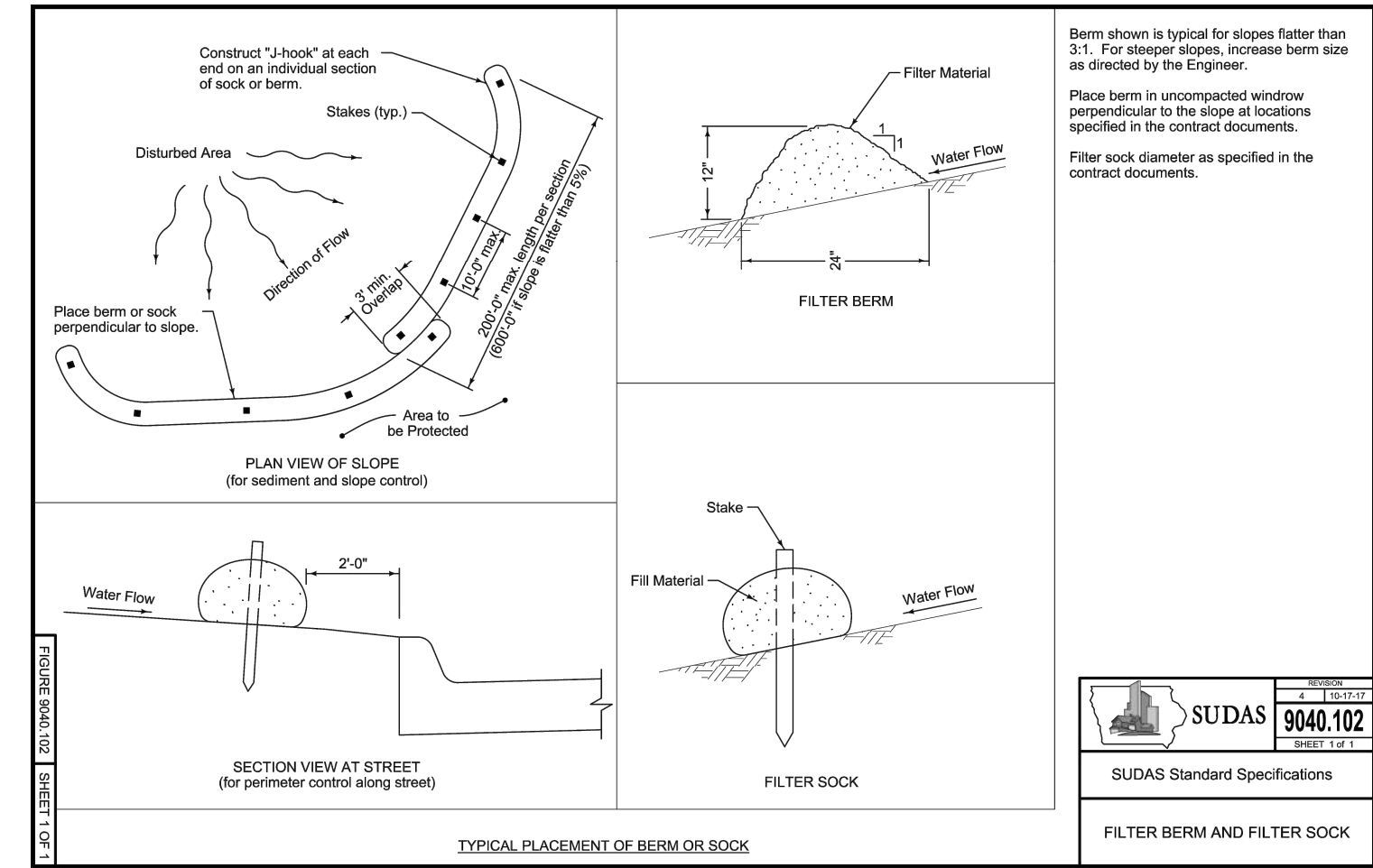
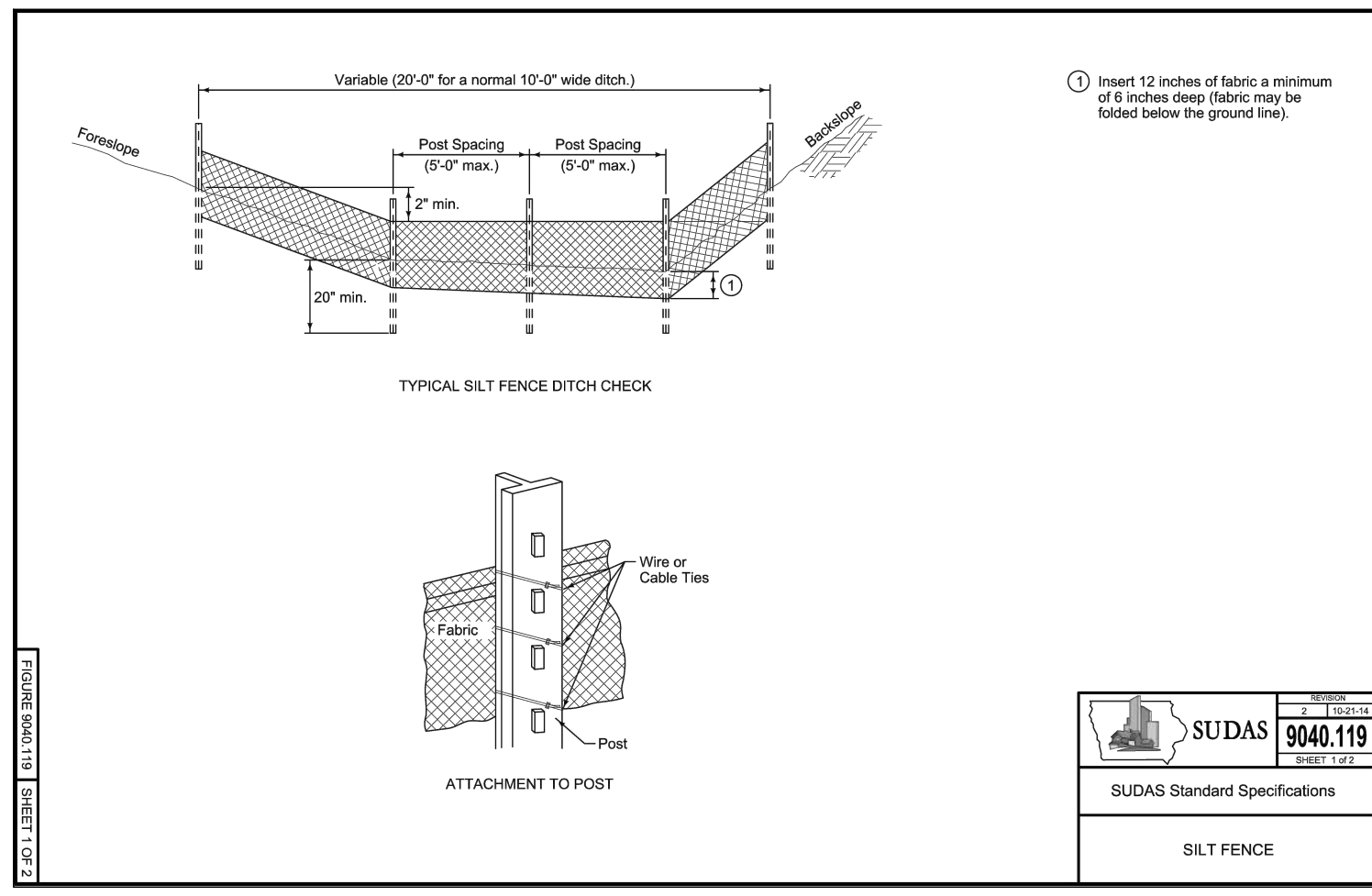
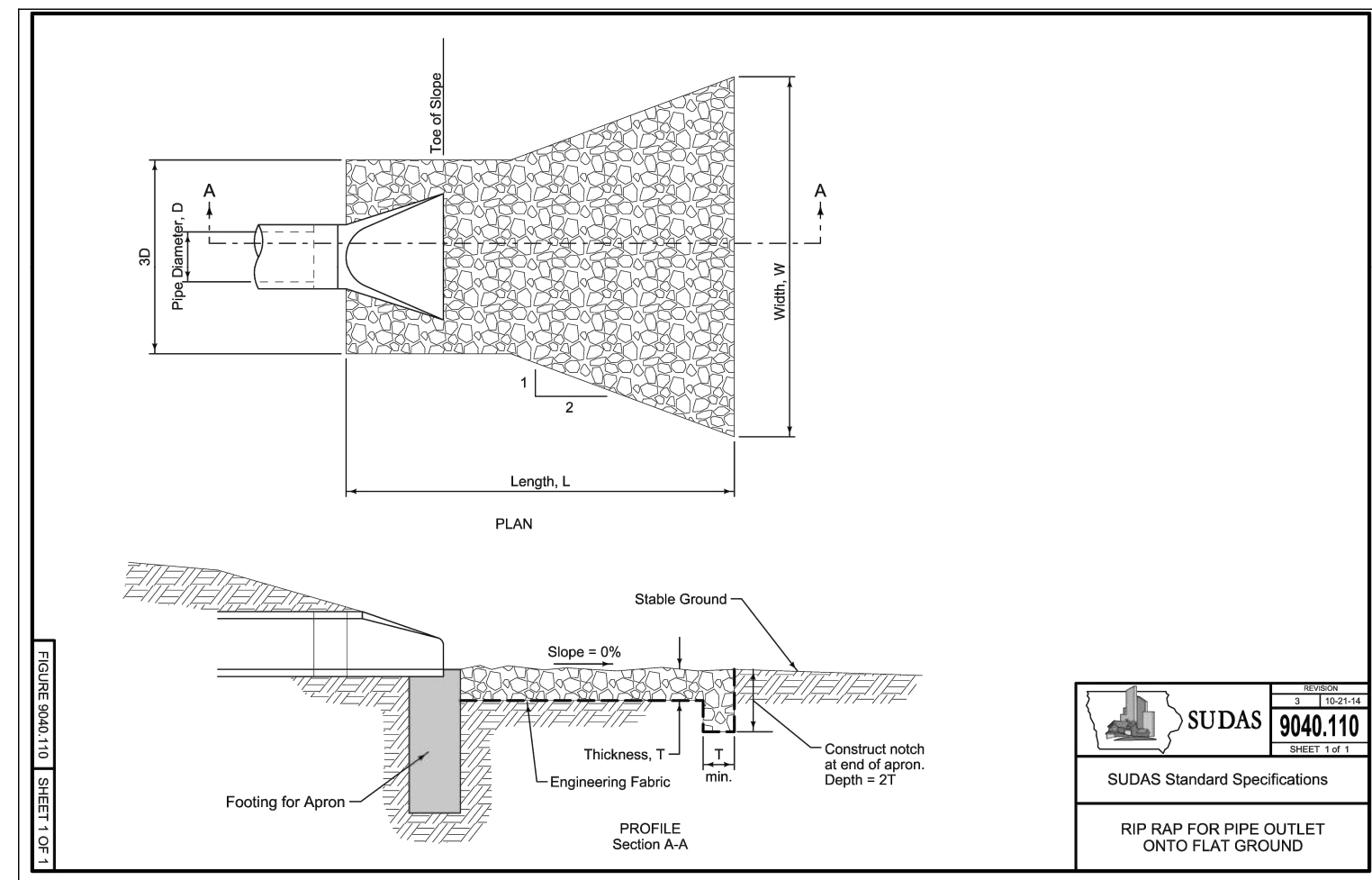
**PRELIMINARY**

**PRAIRIE CROSSING RETAIL**  
505 NE VENTURE DRIVE, WAUKEE, IOWA

**EROSION & SEDIMENT CONTROL - PLAN**

IDNR NPDES GP NO. 2 AUTHORIZATION NUMBER:  
41716-41345

DATE:	September 30, 2022
DATE OF SURVEY:	###
DESIGNED BY:	###
DRAWN BY:	###
	PC
	MEH



PRELIMINARY  
 PRAIRIE CROSSING RETAIL  
 505 NE VENTURE DRIVE, WAUKEE, IOWA  
 EROSION & SEDIMENT CONTROL - DETAILS  
 SHEET 16 OF 16  
 E0022

IDNR NPDES GP NO. 2 AUTHORIZATION NUMBER:  
 41716-41345

DATE: September 30, 2022  
 DATE OF SURVEY: XXX-XX-XX  
 DESIGNED BY: PC  
 DRAWN BY: MEH