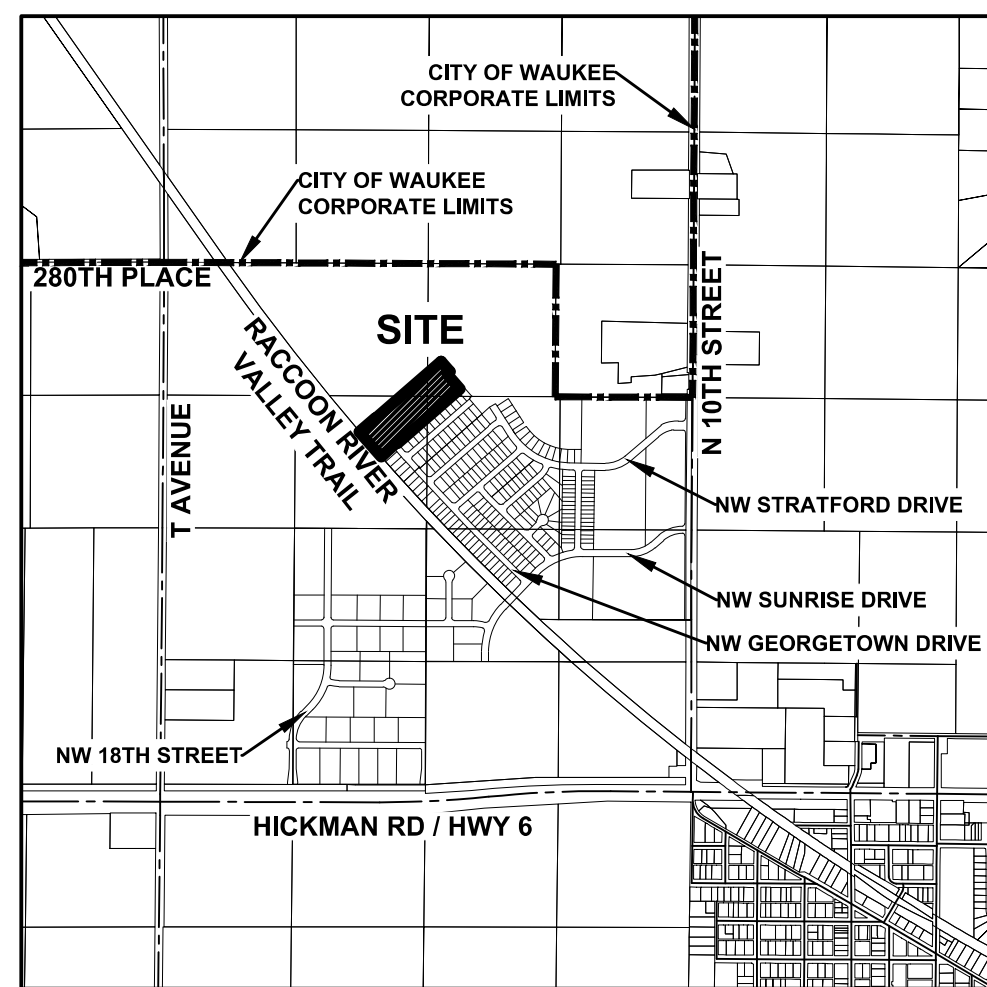


# CONSTRUCTION PLANS FOR: STRATFORD CROSSING PLAT 9

## WAUKEE, IOWA

### VICINITY MAP

NOT TO SCALE



### WAUKEE, IOWA

### INDEX OF SHEETS

| NO.   | DESCRIPTION                               |
|-------|---|
| 1     | TITLE SHEET                               |
| 2-3   | TYPICAL SECTIONS AND DETAILS              |
| 4     | QUANTITIES, GENERAL, AND REFERENCE NOTES  |
| 5     | HYDRANT COVERAGE PLAN                     |
| 6     | GRADING PLAN                              |
| 7     | EROSION AND SEDIMENT CONTROL PLAN         |
| 8-12  | SANITARY AND STORM SEWER PLAN AND PROFILE |
| 13-15 | WATER MAIN PLAN AND PROFILE               |
| 16    | INTERSECTION DETAILS                      |

### LEGAL DESCRIPTION

A PART OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER AND A PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER AND A PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER AND A PART OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER, ALL IN SECTION 29, 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:

BEGINNING AT THE NORTH CORNER OF STRATFORD CROSSING PLAT 8, AN OFFICIAL PLAT; THENCE SOUTH 48°36'04" WEST ALONG THE NORTHWESTERLY LINE OF SAID STRATFORD CROSSING PLAT 8, A DISTANCE OF 865.00 FEET; THENCE NORTH 41°23'56" WEST CONTINUING ALONG SAID NORTHWESTERLY LINE, 7.00 FEET; THENCE SOUTH 48°36'04" WEST CONTINUING ALONG SAID NORTHWESTERLY LINE, 211.54 FEET TO THE NORTHEASTERLY RIGHT OF WAY LINE OF THE FORMER RAILROAD LAND LYING IN SAID SOUTHEAST QUARTER OF THE NORTHWEST QUARTER; THENCE NORTHWESTERLY ALONG SAID NORTHEASTERLY LINE A CURVE CONCAVE NORTHEASTERLY WHOSE RADIUS IS 22868.31 FEET, WHOSE ARC LENGTH IS 280.00 FEET AND WHOSE CHORD BEARS NORTH 41°24'00" WEST, 280.00 FEET; THENCE NORTH 48°36'04" EAST, 151.55 FEET; THENCE NORTH 41°23'56" WEST, 43.00 FEET; THENCE NORTH 48°36'04" EAST, 671.60 FEET; THENCE NORTH 43°15'56" EAST, 316.37 FEET TO THE WESTERLY LINE OF STRATFORD CROSSING PLAT 6, AN OFFICIAL PLAT; THENCE SOUTH 33°02'09" EAST ALONG SAID WESTERLY LINE, 174.15 FEET; THENCE SOUTHWESTERLY CONTINUING ALONG SAID WESTERLY LINE AND A CURVE CONCAVE SOUTHEASTERLY WHOSE RADIUS IS 873.55 FEET, WHOSE ARC LENGTH IS 13.46 FEET AND WHOSE CHORD BEARS SOUTH 56°42'41" WEST, 13.46 FEET; THENCE SOUTH 33°47'35" EAST CONTINUING ALONG SAID WESTERLY LINE, 60.00 FEET; THENCE SOUTH 41°23'56" EAST CONTINUING ALONG SAID WESTERLY LINE, 131.76 FEET; THENCE SOUTH 56°59'12" WEST CONTINUING ALONG SAID WESTERLY LINE, 15.16 FEET TO THE POINT OF BEGINNING AND CONTAINING 8.30 ACRES (361,627 SQUARE FEET). THE PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.

### GENERAL LEGEND

| PROPOSED                         | EXISTING                  |
|----------------------------------|---------------------------|
| PROPERTY BOUNDARY                | SANITARY MANHOLE          |
| SECTION LINE                     | WATER VALVE BOX           |
| CENTER LINE                      | FIRE HYDRANT              |
| RIGHT OF WAY                     | WATER CURB STOP           |
| BUILDING SETBACK                 | WELL                      |
| PERMANENT EASEMENT               | STORM SEWER MANHOLE       |
| TEMPORARY EASEMENT               | STORM SEWER SINGLE INTAKE |
| TYPE SW-501 STORM INTAKE         | STORM SEWER DOUBLE INTAKE |
| TYPE SW-502 STORM INTAKE         | FLARED END SECTION        |
| TYPE SW-503 STORM INTAKE         | DECIDUOUS TREE            |
| TYPE SW-505 STORM INTAKE         | CONIFEROUS TREE           |
| TYPE SW-506 STORM INTAKE         | DECIDUOUS SHRUB           |
| TYPE SW-512 STORM INTAKE         | CONIFEROUS SHRUB          |
| TYPE SW-513 STORM INTAKE         | ELECTRIC POWER POLE       |
| TYPE SW-401 STORM MANHOLE        | GUY ANCHOR                |
| TYPE SW-402 STORM MANHOLE        | STREET LIGHT              |
| FLARED END SECTION               | POWER POLE W/ TRANSFORMER |
| TYPE SW-301 SANITARY MANHOLE     | UTILITY POLE W/ LIGHT     |
| STORM/SANITARY CLEANOUT          | ELECTRIC BOX              |
| WATER VALVE                      | ELECTRIC MANHOLE OR VAULT |
| FIRE HYDRANT ASSEMBLY            | TRAFFIC SIGN              |
| SIGN                             | TELEPHONE JUNCTION BOX    |
| DETECTABLE WARNING PANEL         | TELEPHONE MANHOLE/VAULT   |
| WATER CURB STOP                  | TELEPHONE POLE            |
| STORM SEWER STRUCTURE NO.        | GAS VALVE BOX             |
| STORM SEWER PIPE NO.             | CABLE TV JUNCTION BOX     |
| SANITARY SEWER STRUCTURE NO.     | CABLE TV MANHOLE/VAULT    |
| SANITARY SEWER PIPE NO.          | MAIL BOX                  |
| SANITARY SERVICE                 | BENCHMARK                 |
| STORM SEWER                      | SOIL BORING               |
| STORM SERVICE                    | UNDERGROUND TV CABLE      |
| WATERMAIN WITH SIZE              | GAS MAIN                  |
| WATER SERVICE                    | FIBER OPTIC               |
| SAWCUT (FULL DEPTH)              | UNDERGROUND TELEPHONE     |
| SILT FENCE                       | OVERHEAD ELECTRIC         |
| USE AS CONSTRUCTED (UAC)         | UNDERGROUND ELECTRIC      |
| MINIMUM OPENING ELEVATION (MOE)  | FIELD TILE                |
| MINIMUM GRADE AT STRUCTURE (MGS) | SANITARY SEWER WITH SIZE  |
|                                  | STORM SEWER WITH SIZE     |
|                                  | WATER MAIN WITH SIZE      |

### OWNER

STRATFORD CROSSING, LLC  
9550 HICKMAN ROAD, SUITE 100  
CLIVE, IOWA 50325  
CONTACT: BILL SPENCER

### DEVELOPER

LANDMARK DEVELOPMENT SERVICES  
9550 HICKMAN ROAD, SUITE 100  
CLIVE, IOWA 50325  
CONTACT: BILL SPENCER

### ENGINEER

CIVIL DESIGN ADVANTAGE  
3405 SE CROSSROADS DRIVE, SUITE G  
GRIMES, IOWA 50111  
CONTACT: ERIN OLLENDIKE  
EMAIL: ERINO@CDA-ENG.COM  
PH. (515) 369-4400  
FX. (515) 369-4410

### SURVEYOR

CIVIL DESIGN ADVANTAGE  
3405 SE CROSSROADS DRIVE, SUITE G  
GRIMES, IOWA 50111  
CONTACT: CHARLIE MCGLOTHLEN  
EMAIL: CHARLIEM@CDA-ENG.COM  
PH. (515) 369-4400  
FX. (515) 369-4410

### ZONING

R-2 - ONE AND TWO FAMILY RESIDENTIAL DISTRICT

### DATE OF SURVEY

SEPTEMBER 15, 2017

### SUBMITTAL DATES

FIRST SUBMITTAL: 01/26/2021  
SECOND SUBMITTAL: 03/02/2021  
THIRD SUBMITTAL: 03/16/2021  
FINAL SUBMITTAL: 04/29/2021  
AS-BUILT SUBMITTAL: 10/11/2021

### BENCHMARKS

BENCHMARK #1  
USGS MONUMENT ALUMINUM ROD WITH CAP STAMPED G121 AND NGS ACCESS COVER 3" DEEP. EAST SIDE OF R AVE. (R16) 0.1 MILES SOUTH OF 300TH STREET.  
ELEVATION=1032.83

### BENCHMARK #2

PK NAIL 3" NORTH OF CENTERLINE EASTBOUND HIGHWAY 6 AT THE SE CORNER OF SW SE  
ELEVATION=1040.27

### BULK REGULATIONS

R-2; ONE- AND TWO- FAMILY RESIDENTIAL DISTRICT

FRONT YARD: 30 FEET  
SIDE YARD: A TOTAL OF 15 FEET - ONE SIDE MAY BE REDUCED TO NOT LESS THAN 7 FEET  
REAR YARD: 30 FEET

### UTILITY WARNING

THE 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.

### CONSTRUCTION SCHEDULE

ANTICIPATED START DATE: MARCH 2021  
ANTICIPATED FINISH DATE: SEPTEMBER 2021

### NOTES

- ANY CHANGES PROPOSED TO THE CONSTRUCTION DRAWINGS DURING CONSTRUCTION SHALL BE APPROVED IN WRITING BY THE WAUKEE ENGINEERING DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES MADE DURING CONSTRUCTION THAT HAVE NOT BEEN GRANTED APPROVAL IN WRITING BY THE WAUKEE ENGINEERING DEPARTMENT.
- THE RESULTS OF THE GEOTECHNICAL REPORT, BY THIELE GEOTECH, INC. (PN 02.17120.0) DATED JANUARY 25, 2018, HAVE BEEN PROVIDED TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT. THE CONSTRUCTION DRAWINGS ARE SUBJECT TO ANY CHANGES REQUIRED BY THE REPORT.

## 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.



**CIVIL DESIGN ADVANTAGE**

3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111

PH: (515) 369-4400 Fax: (515) 369-4410

PROJECT NO. 2012.684

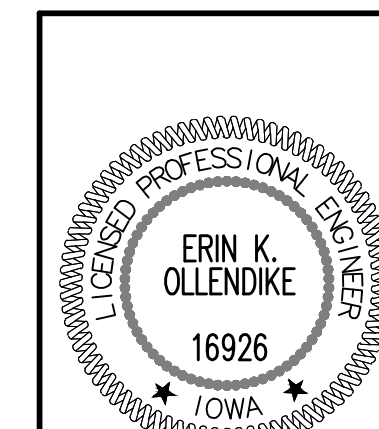


ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE SOILS REPORT PREPARED BY THIELE GEOTECH, INC. (PN 02.17120.0) DATED JANUARY 25, 2018.

THIS PROJECT REQUIRES AN IOWA NPDES PERMIT #2. 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 MOST RECENT EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2021 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED 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.

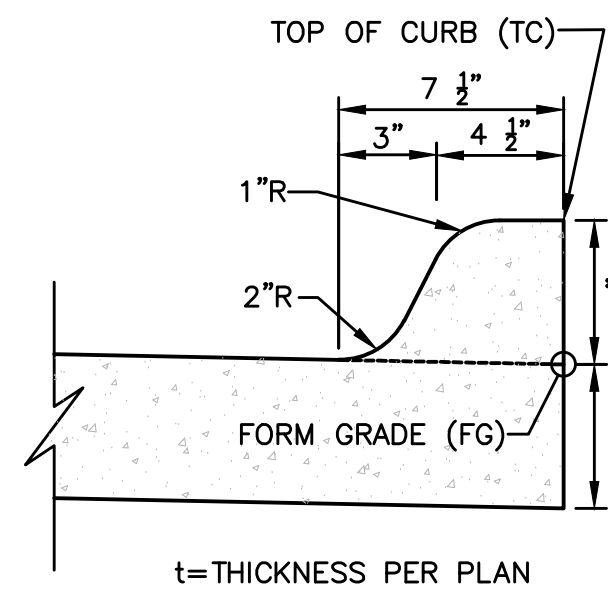
*Erin K. Ollendike*  
ERIN K. OLLENDIKE, P.E.

10/11/2021  
DATE

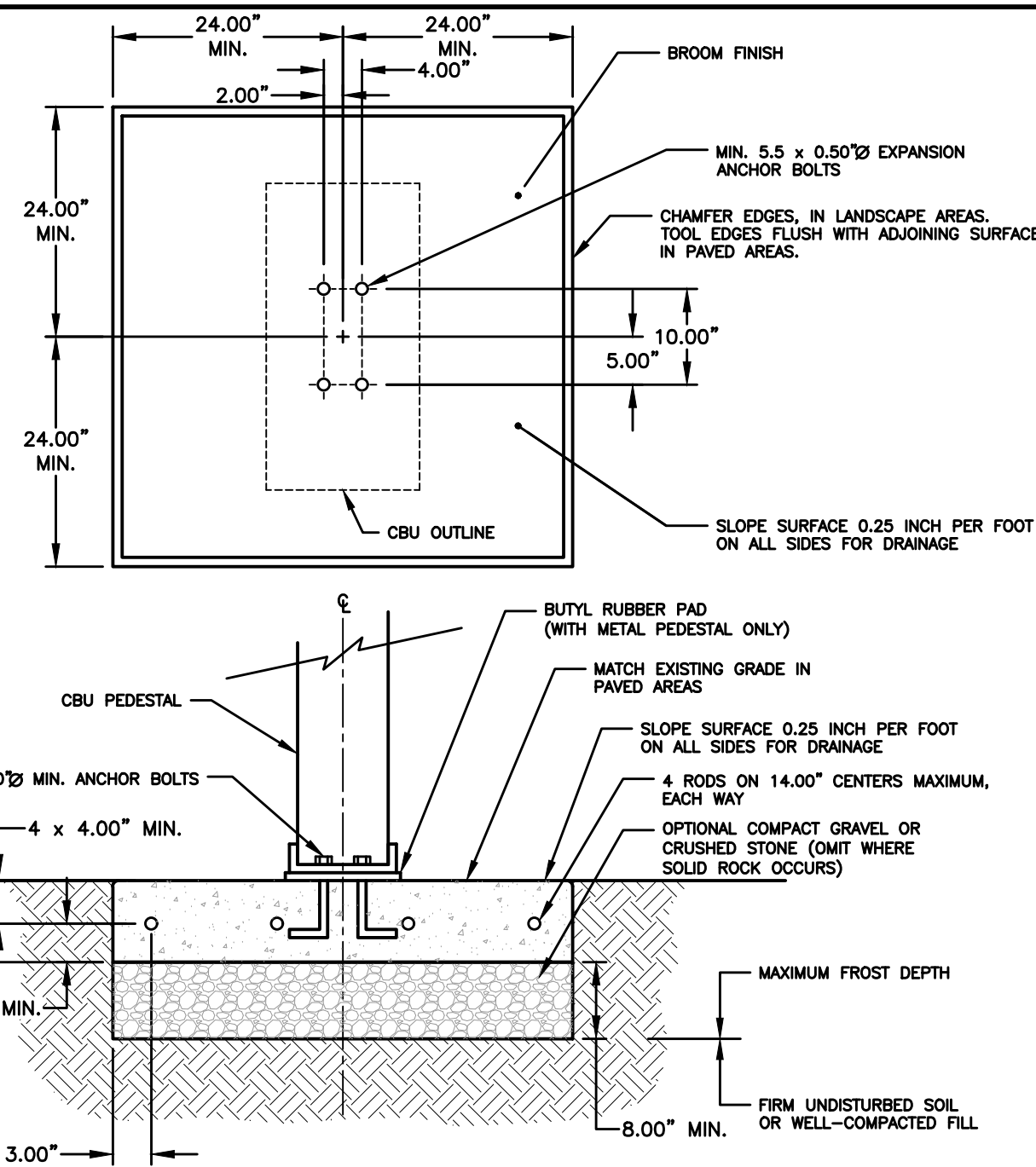
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MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021  
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ALL SHEETS

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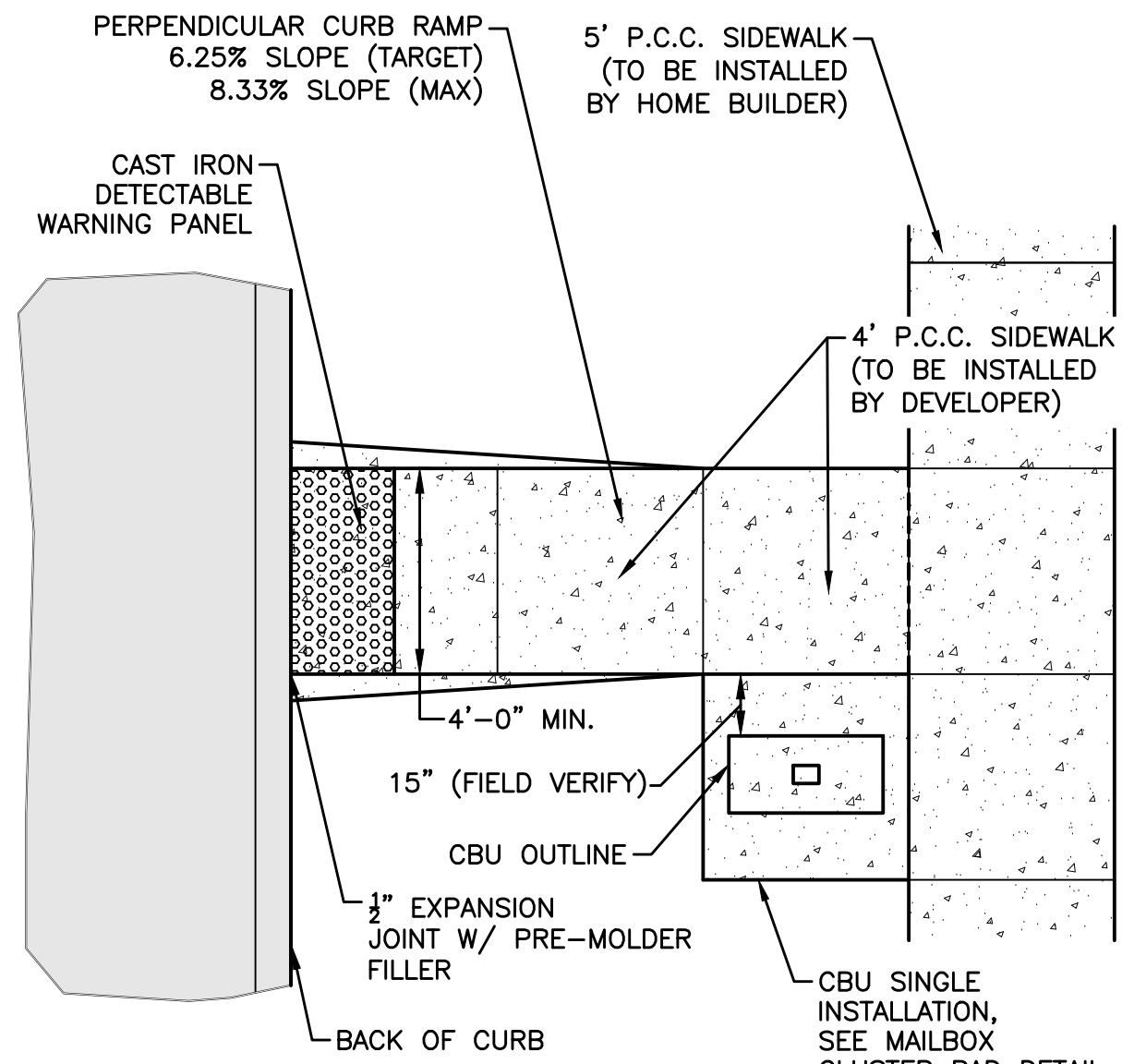


**INTEGRAL 6" STANDARD SPOT ELEVATION REFERENCE DETAIL**  
NOT TO SCALE



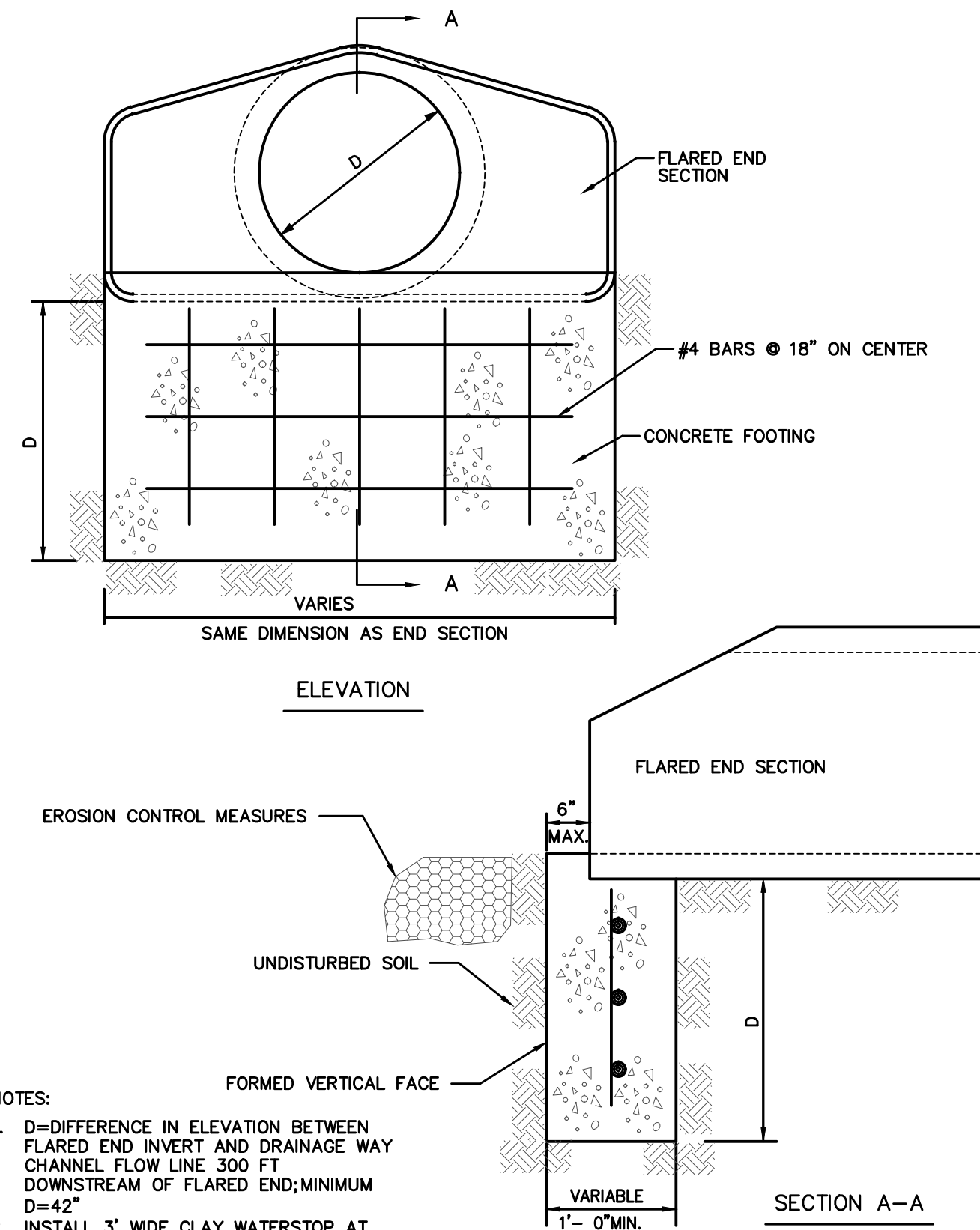
- NOTES:
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN. - 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50" - 4.00" SLUMP IN ACCORDANCE WITH ACI 301.
  - REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
  - EXPANSION BOLTS SHALL BE EQUIVALENT TO THE FOLLOWING PROVIDERS:
    - HILTI KWIK BOLT (WWW.LSHILTI.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"
    - ITW RAMSET REDHEAD TRUBOLT (WWW.RAMSET-REDHEAD.COM) GALVANIZED, 1/2" DIAMETER X 7" OVERALL LENGTH; CATALOG NUMBER: W6-12706. ENSURE THAT MIN. EMBEDMENT IS CONCRETE IS AT LEAST 4-1/8"
    - RAM STUD (WWW.RAM.COM) GALVANIZED, 1/2" X 5-1/2" OVERALL LENGTH; CATALOG NUMBERS: 7724. ENSURE THAT MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4"

**MAILBOX CLUSTER PAD DETAIL**  
NOT TO SCALE



- INSTALLATION NOTE:
- MAILBOX PADS TO BE INSTALLED WITH THE PLAT IMPROVEMENTS.
  - CLUSTER MAILBOX TO BE LOCATED ON THE NO PARKING/STREET LIGHT SIDE OF STREET.
  - DO NOT LOCATE AT INTERSECTION.
  - LOCATE NEAR SHARED PROPERTY LINE PER APPROVED PLAN.
  - DETERMINE SIDEWALK SIDE OF MAILBOX PAD ELEVATION ASSUMING CONSTANT 4% SLOPE FROM BACK OF CURB TO SIDEWALK SIDE OF MAILBOX PAD. RESULTING SLOPE FROM BACK OF CURB TO STREET SIDE OF MAILBOX PAD WILL BE GREATER THAN 4%. FOR EXAMPLE, FOR A 29' WIDE PAVEMENT WITH A 60' WIDE R.O.W. AND A 2% MAILBOX PAD CROSS SLOPE, THE RESULTING SLOPE FROM THE BACK OF CURB TO THE STREET SIDE OF MAILBOX PAD IS 6.2%.

**MAILBOX PAD DETAIL**  
NOT TO SCALE

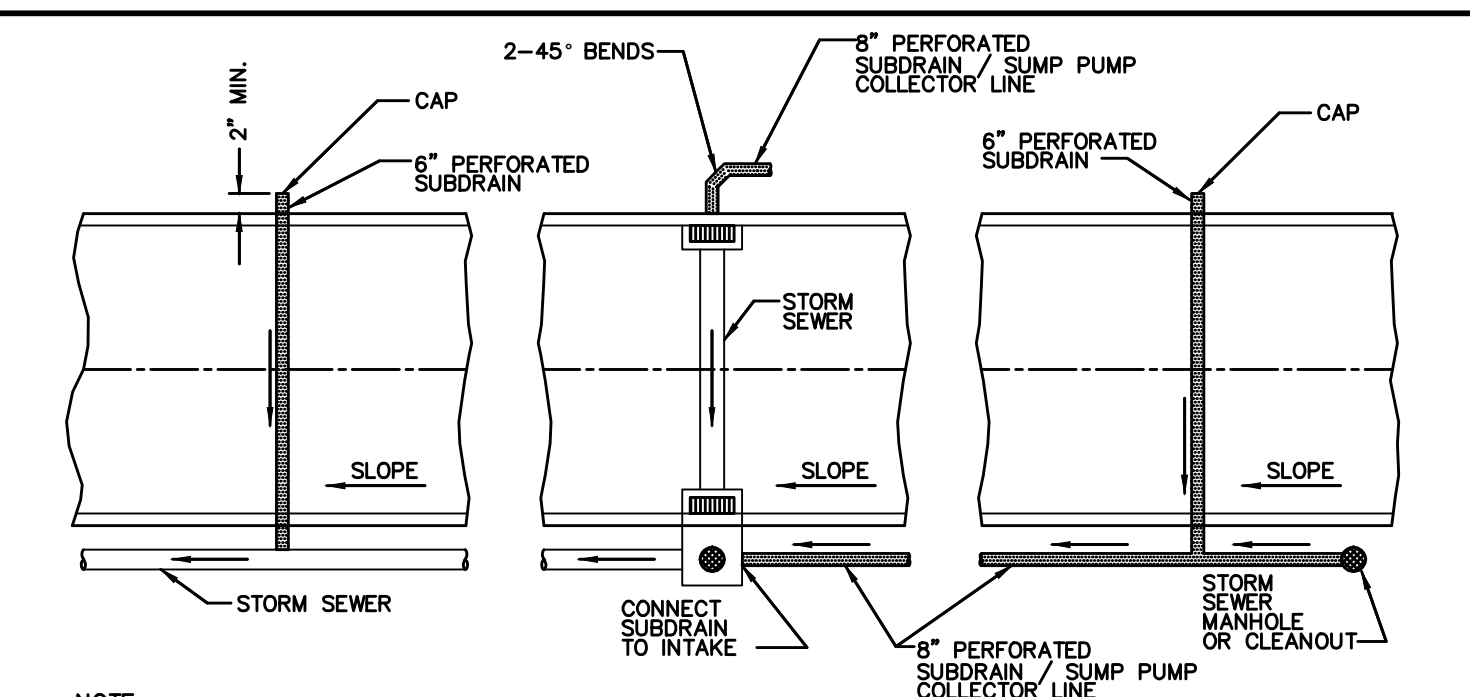


- NOTES:
- D=DIFFERENCE IN ELEVATION BETWEEN FLARED END INVERT AND DRAINAGE WAY CHANNEL FLOW LINE 300 FT DOWNSTREAM OF FLARED END; MINIMUM D=42"
  - INSTALL 3' WIDE CLAY WATERSTOP AT FLARED END SECTION PIPE JOINT.
  - TRASH GUARDS ARE NOT ALLOWED ON PIPES 48" OR LARGER.

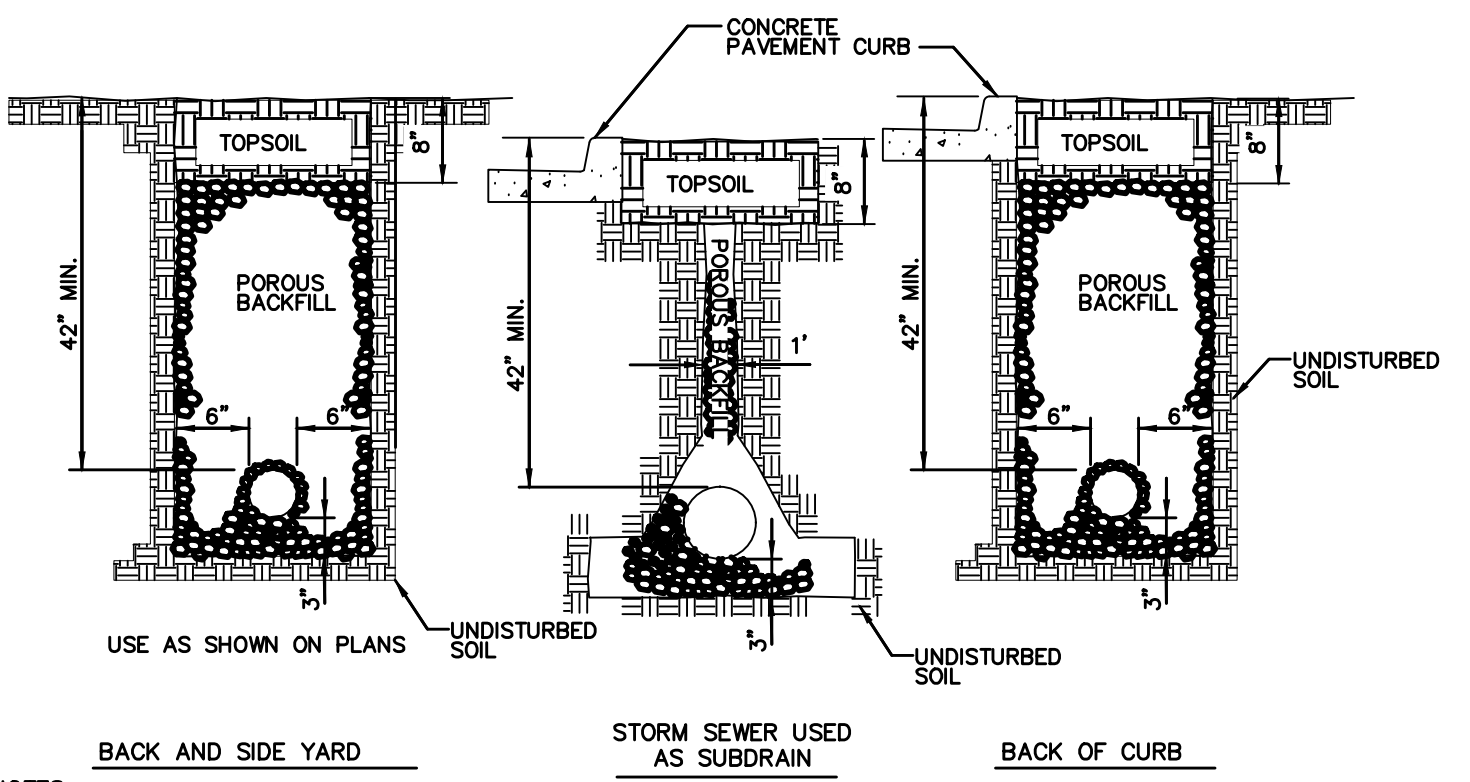
REINFORCING BAR LIST

| 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     |

**RCP APRON FOOTING DETAIL**  
NOT TO SCALE

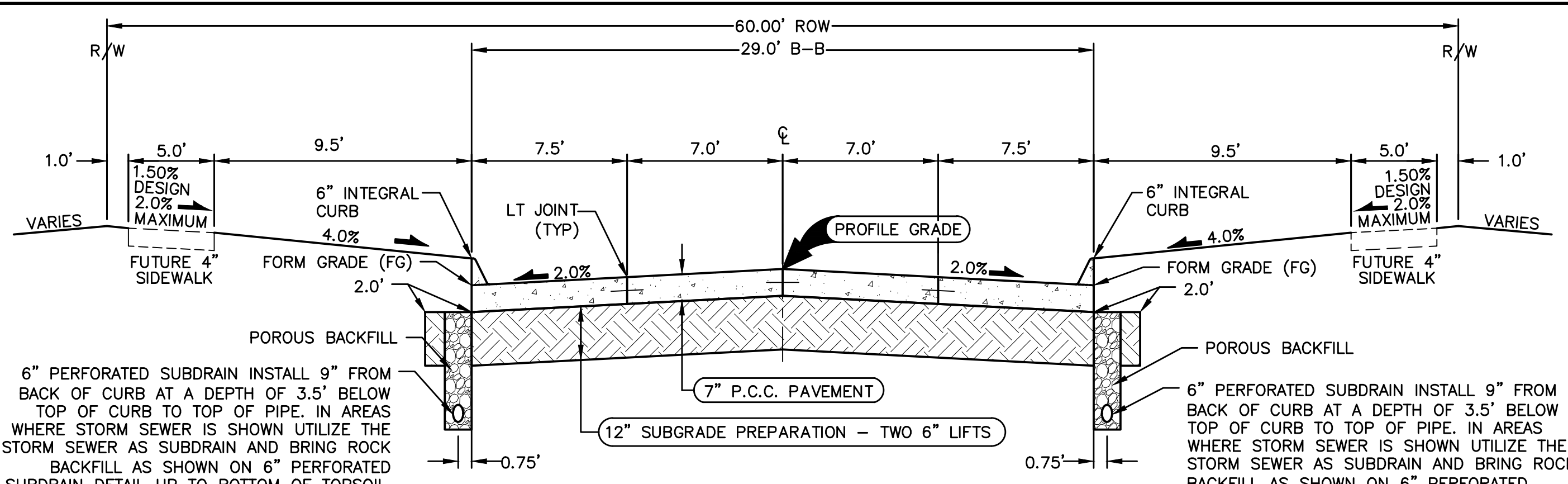


NOTE: CORE DRILL ALL STORM SEWER AND PLACE NON-SHRINK GROUT COLLAR AT CONNECTION.



- NOTES:
- SLOPE SUBDRAINS TO DRAIN.
  - 6" BACK OF CURB SUBDRAINS AND ALL BACK AND SIDE YARD SUBDRAINS; USE PEA GRAVEL FOR POROUS BACKFILL.
  - DIRECT PERFORATIONS DOWN FOR SUBDRAINS AND UP FOR SUMP PUMP COLLECTOR LINES.

**6" PERFORATED SUBDRAIN**



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

**29' B/B P.C.C. ROADWAY WITH 60' R.O.W.**  
NOT TO SCALE NW GEORGETOWN DRIVE/NW BRANDYWINE LANE

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PLOT BY: MATTHEW THOMPSON

DATE: 10/11/2021  
10/11/2021  
04/29/2021  
03/16/2021  
03/02/2021  
01/26/2021

REVISIONS: AS-BUILT SUBMITTAL, FINAL SUBMITTAL, THIRD SUBMITTAL, SECOND SUBMITTAL, FIRST SUBMITTAL

3405 S.E. CROSSROADS DRIVE, SUITE G  
GRIMES, IOWA 50111  
PHONE: (515) 369-4400 FAX: (515) 369-4410

TECH: ENGINEER: EKO

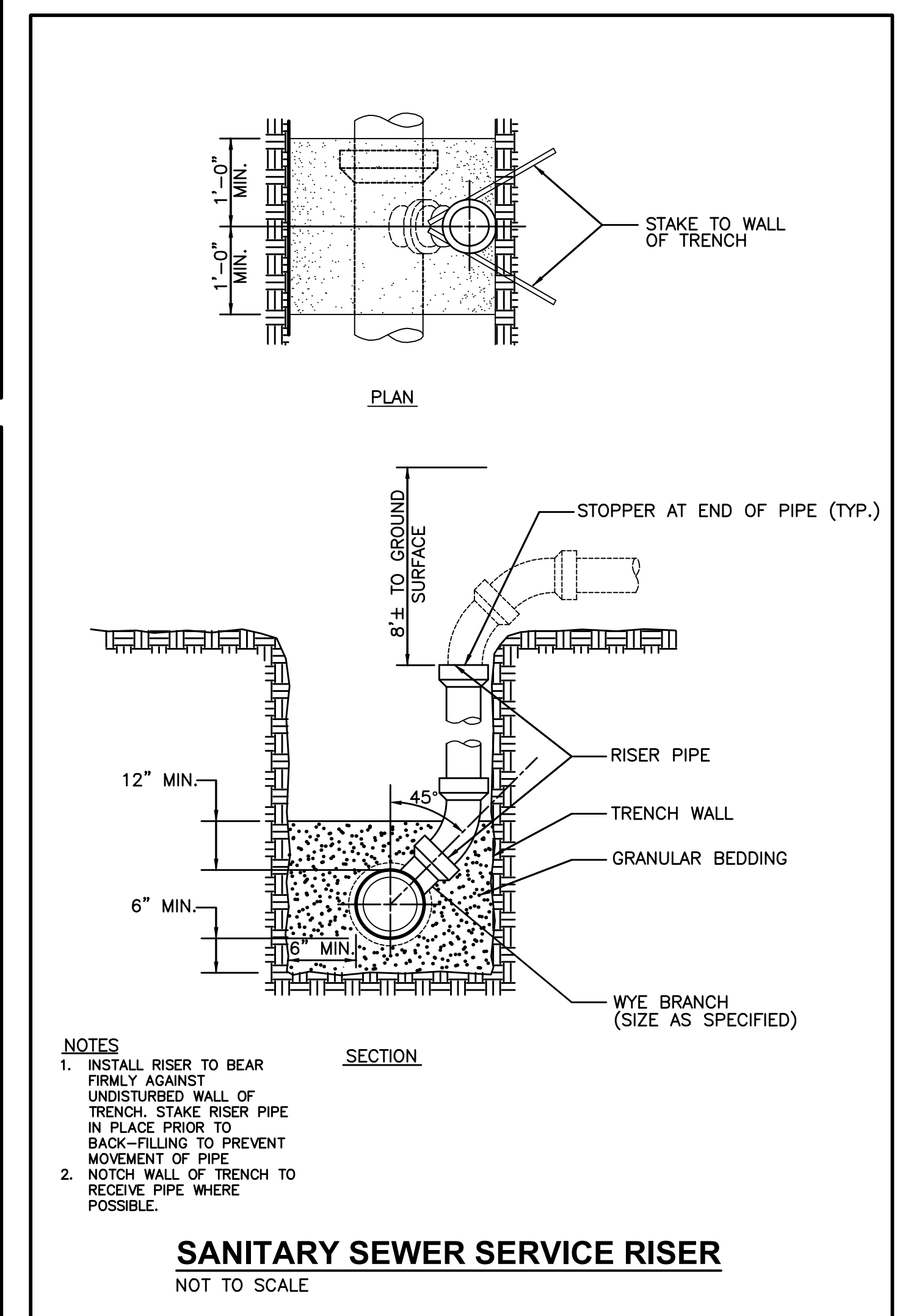
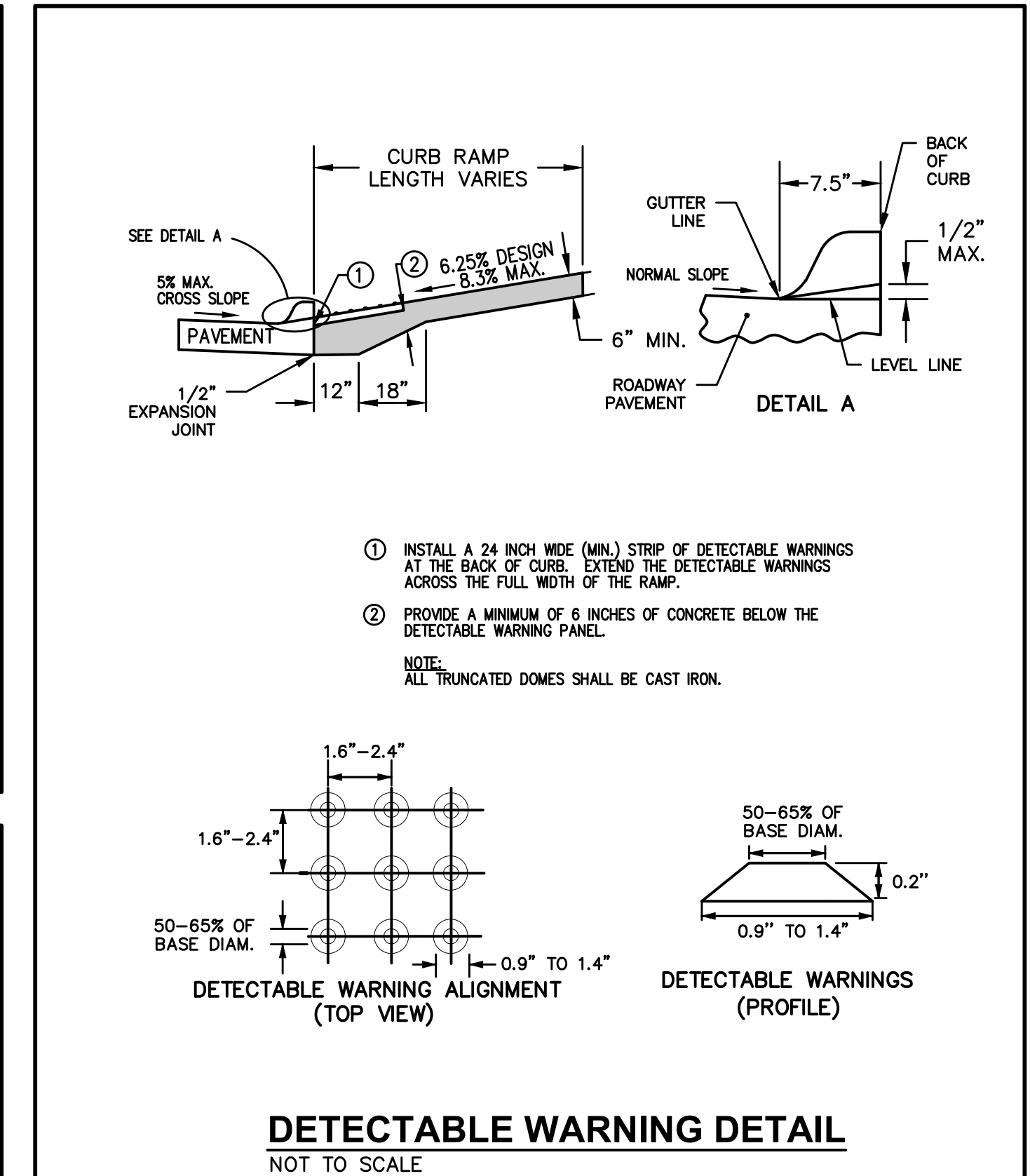
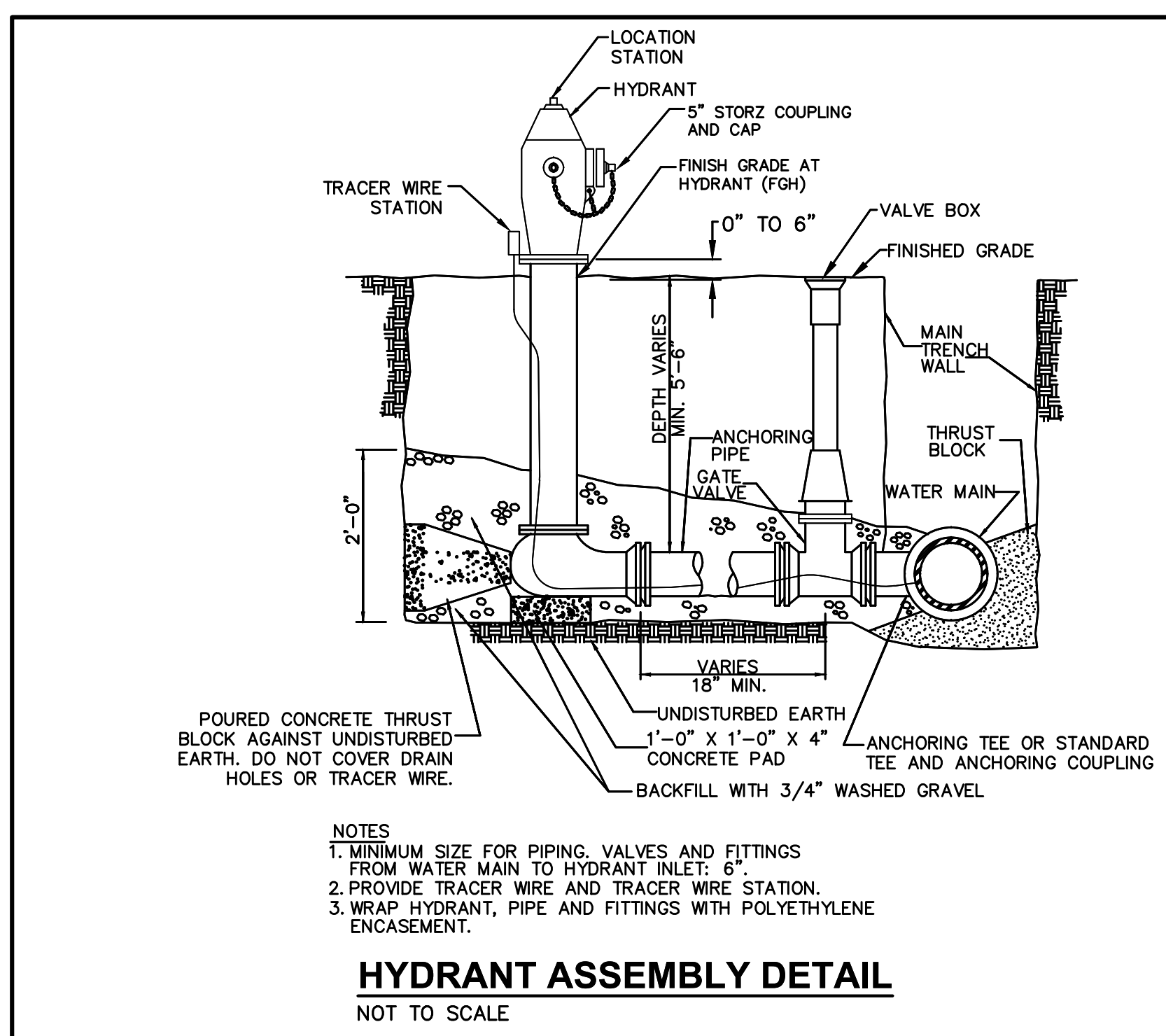
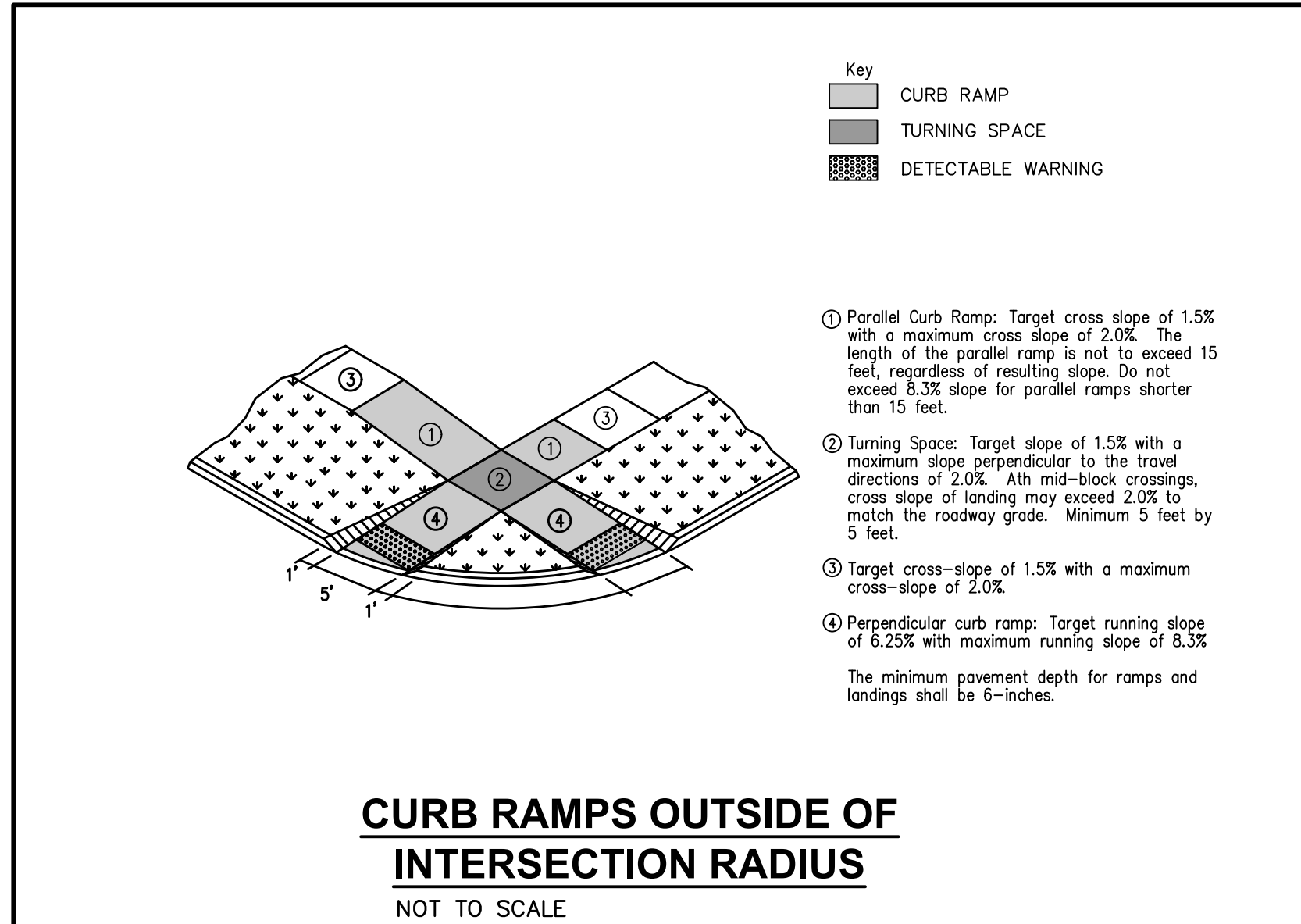
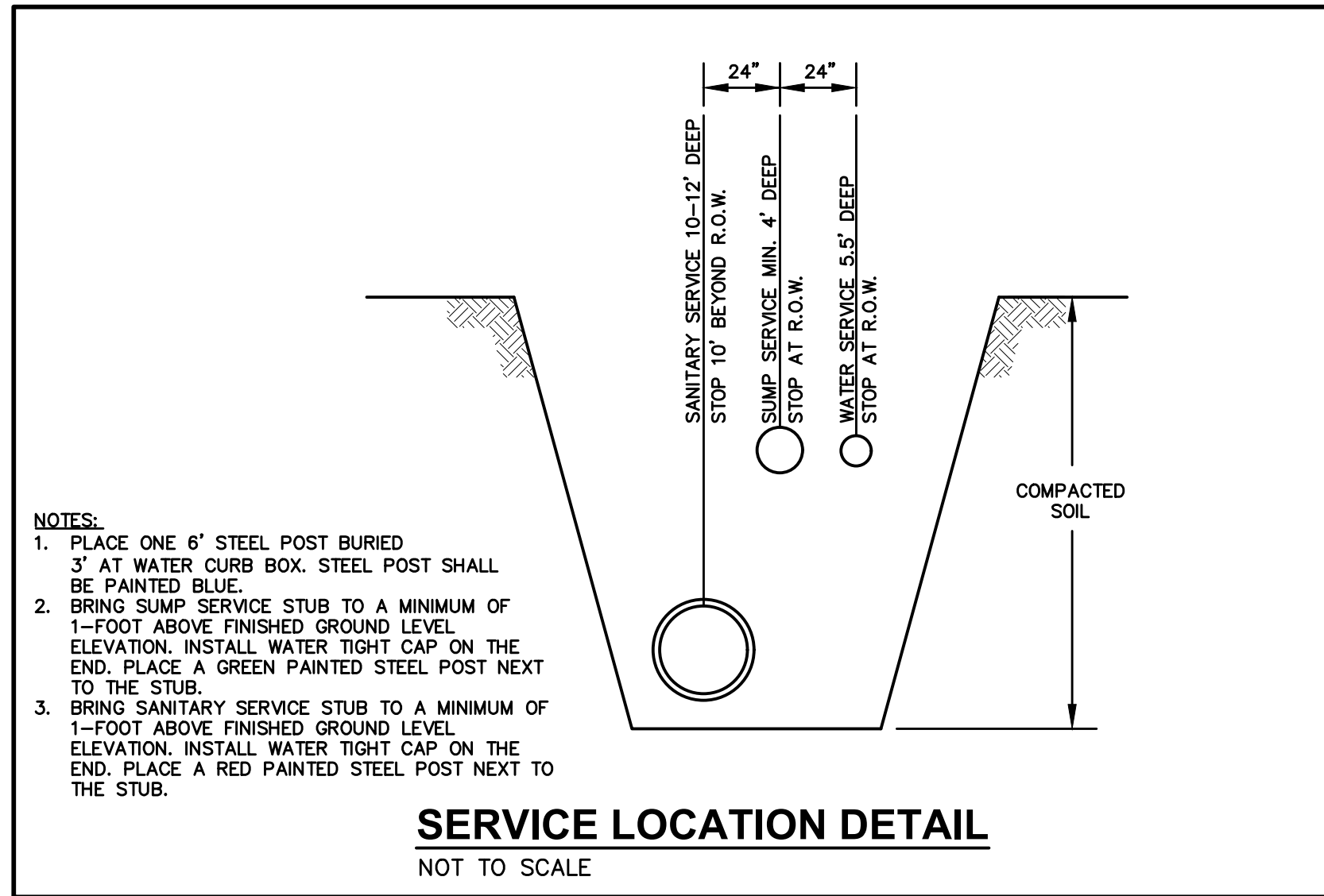
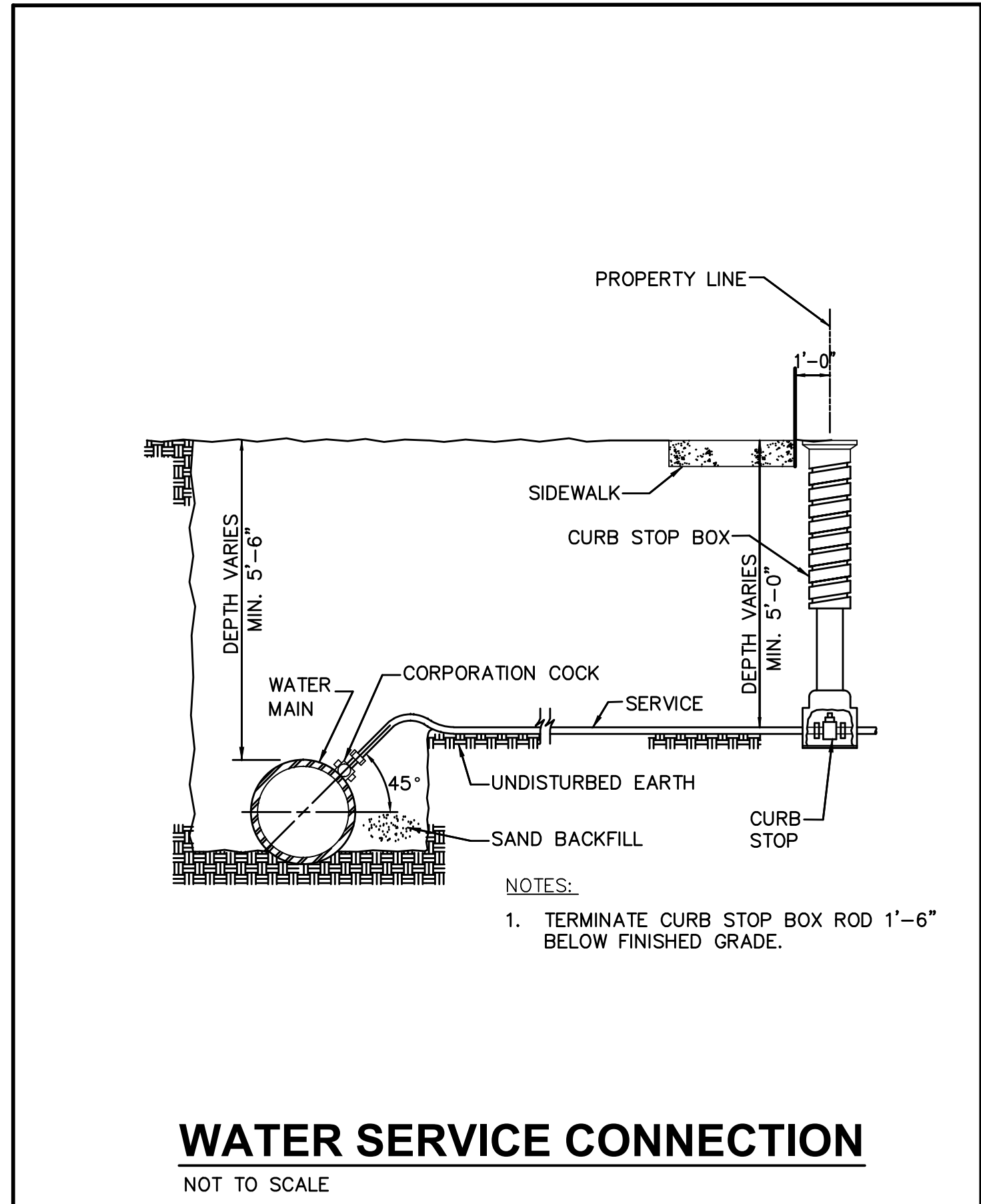
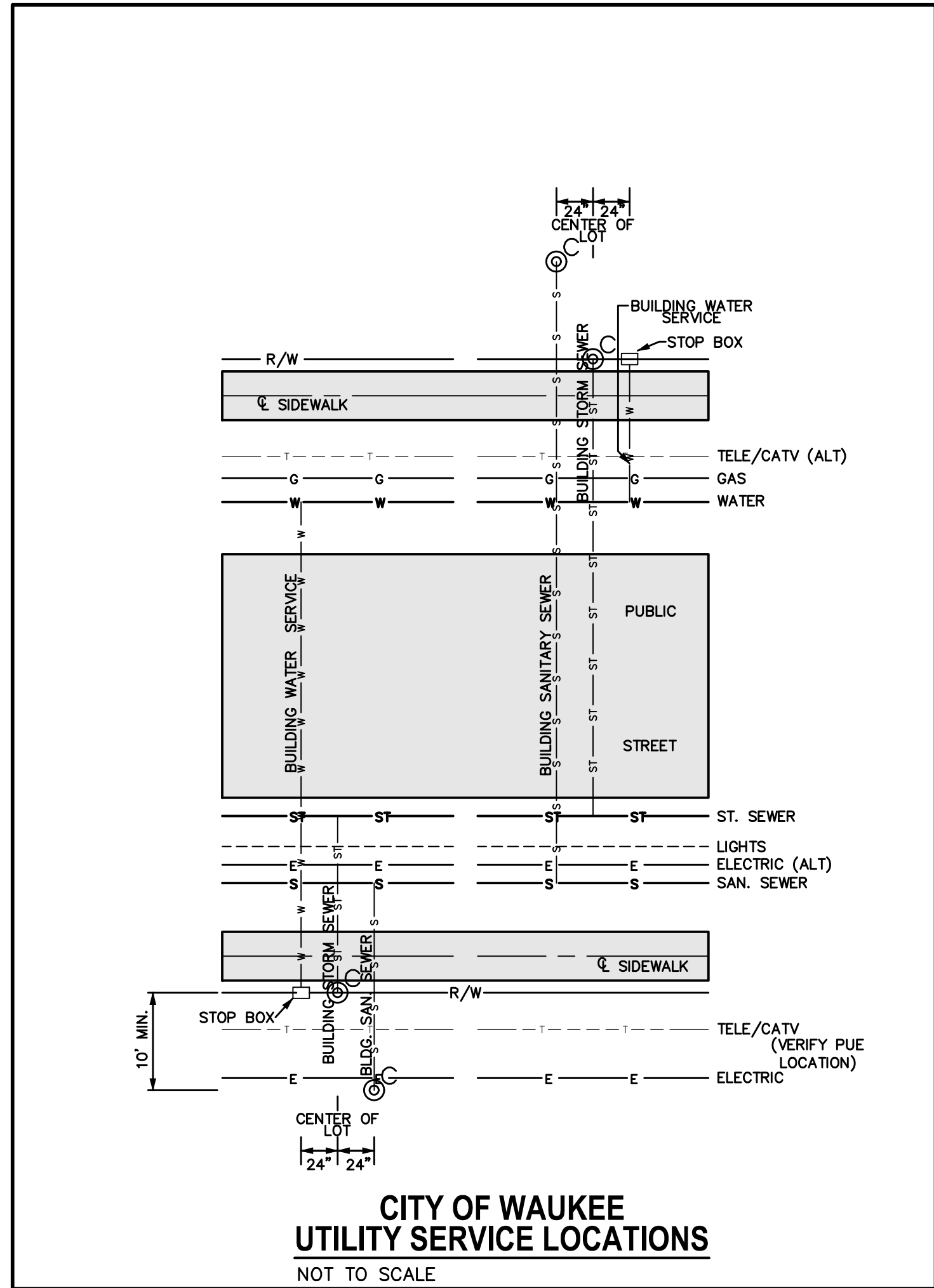
**ESA**  
CIVIL DESIGN ADVANTAGE

WAUKEE, IOWA

**STRATFORD CROSSING PLAT 9**  
TYPICAL SECTIONS AND DETAILS

2/16  
2012.684

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| AS-BUILT SUBMITTAL | 04/29/2021 |
| FINAL SUBMITTAL    | 03/16/2021 |
| THIRD SUBMITTAL    | 03/02/2021 |
| SECOND SUBMITTAL   | 03/02/2021 |
| FIRST SUBMITTAL    | 01/26/2021 |

3405 S.E. CROSSROADS DRIVE, SUITE G  
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TECH: ENGINEER: EKO

WAUKEE, IOWA

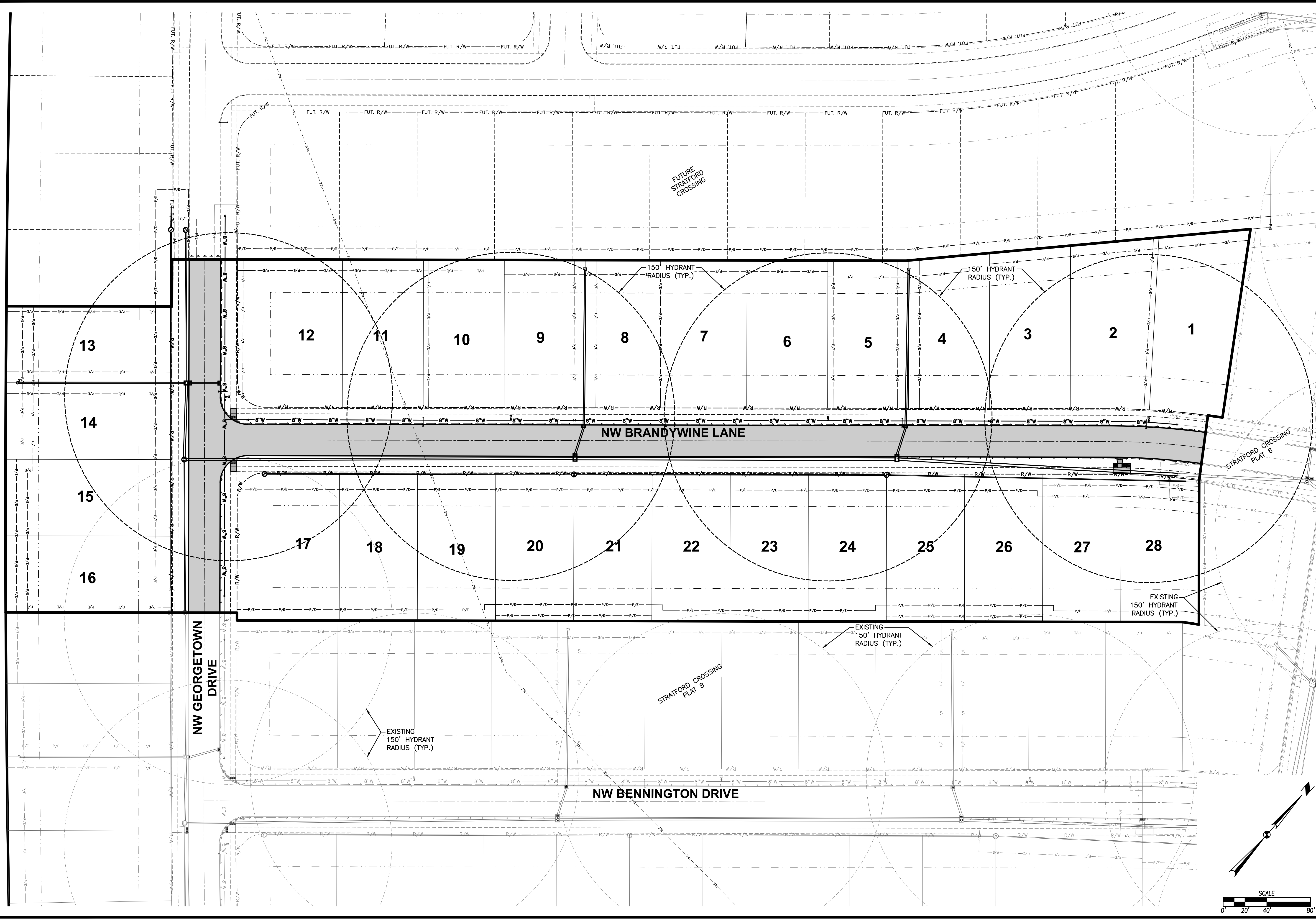
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 CIVIL DESIGN ADVANTAGE

**STRATFORD CROSSING PLAT 9**  
 DETAILS

3/16  
 2012.684

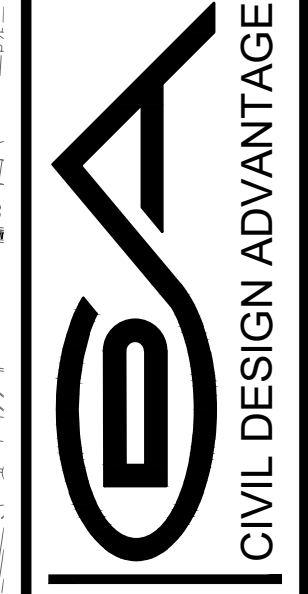


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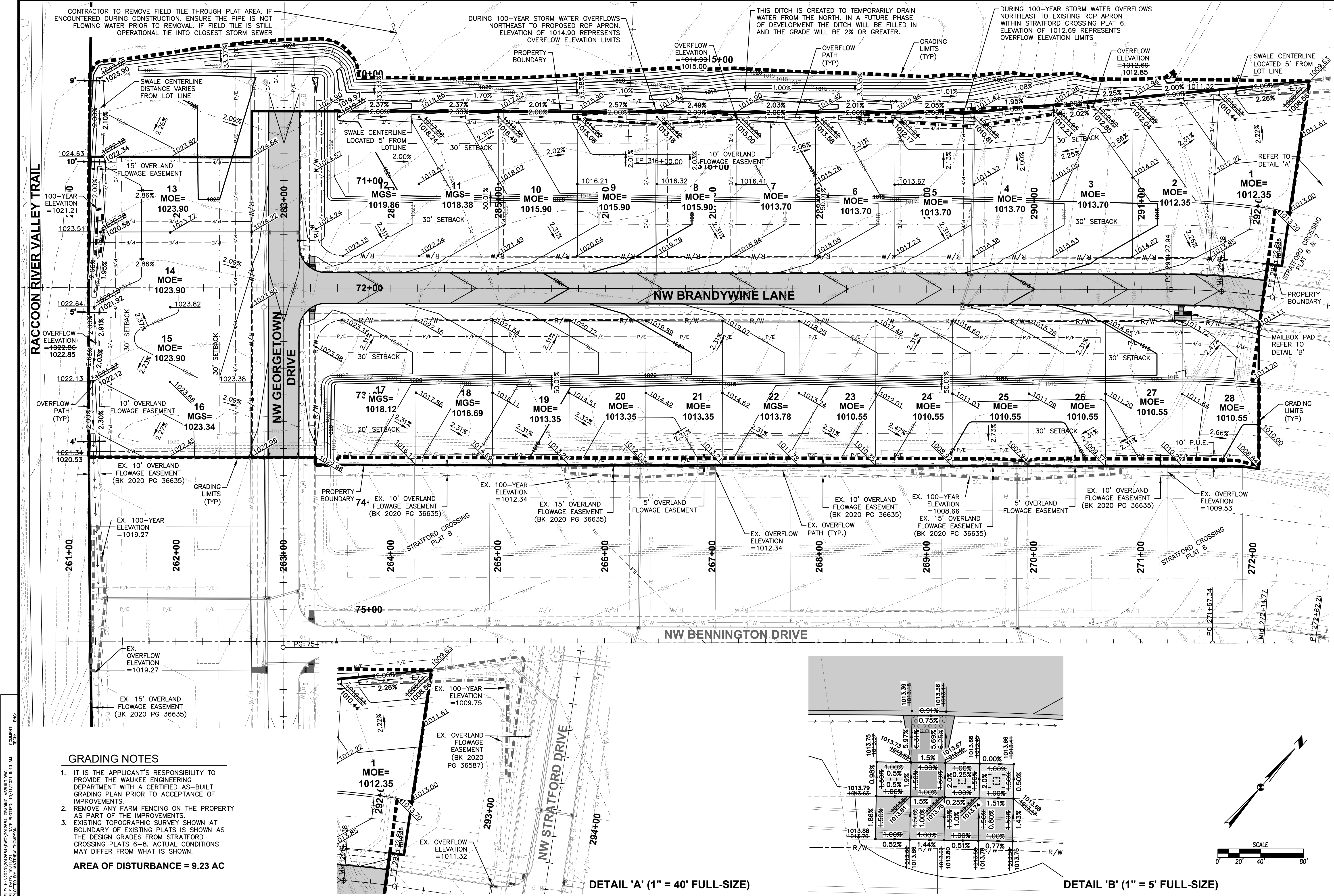
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| FINAL SUBMITTAL    | 04/29/2021 |
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 ENGINEER: EKO  
 TECH:



WAUKEE, IOWA

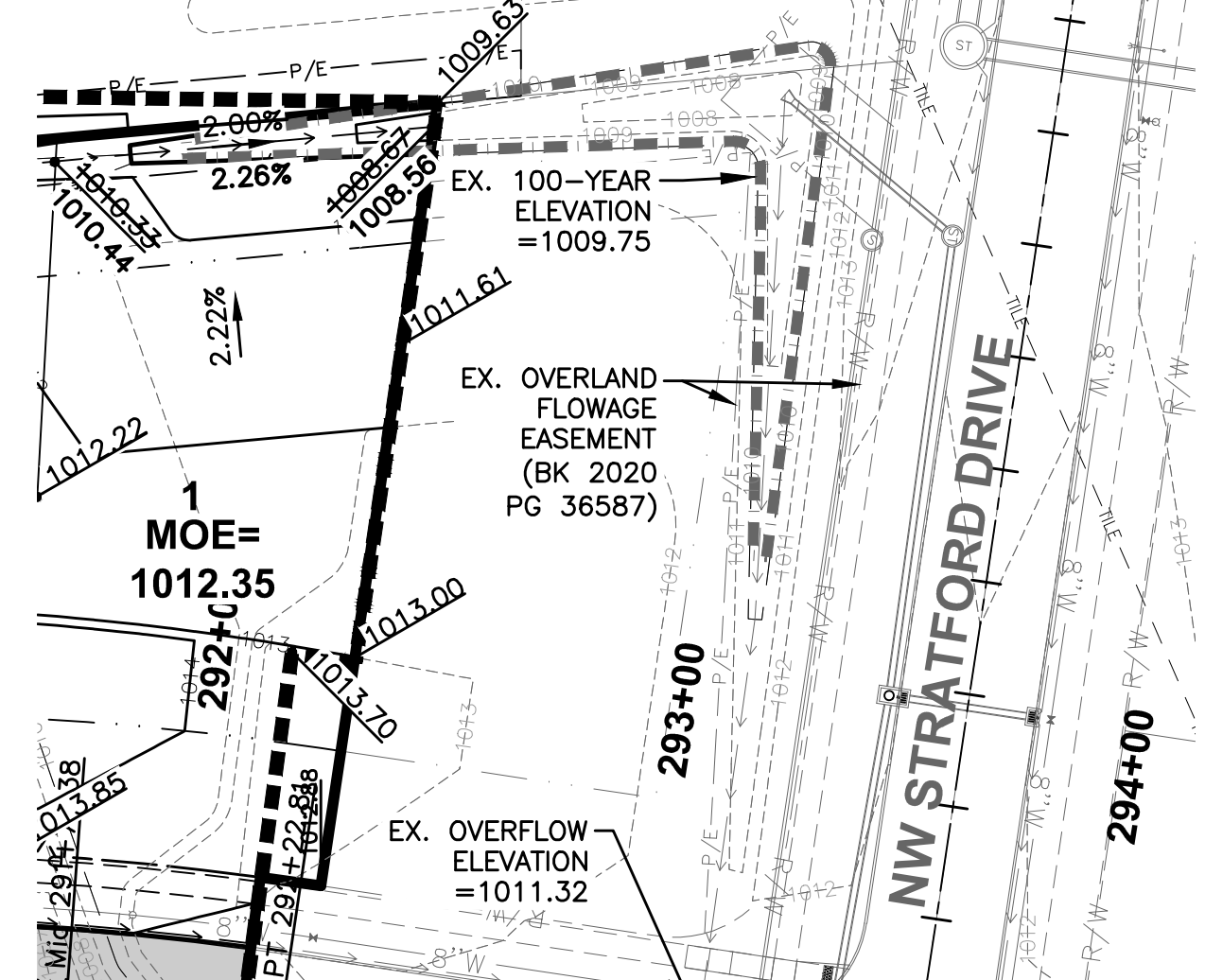
**STRATFORD CROSSING PLAT 9**  
**HYDRANT COVERAGE PLAN**



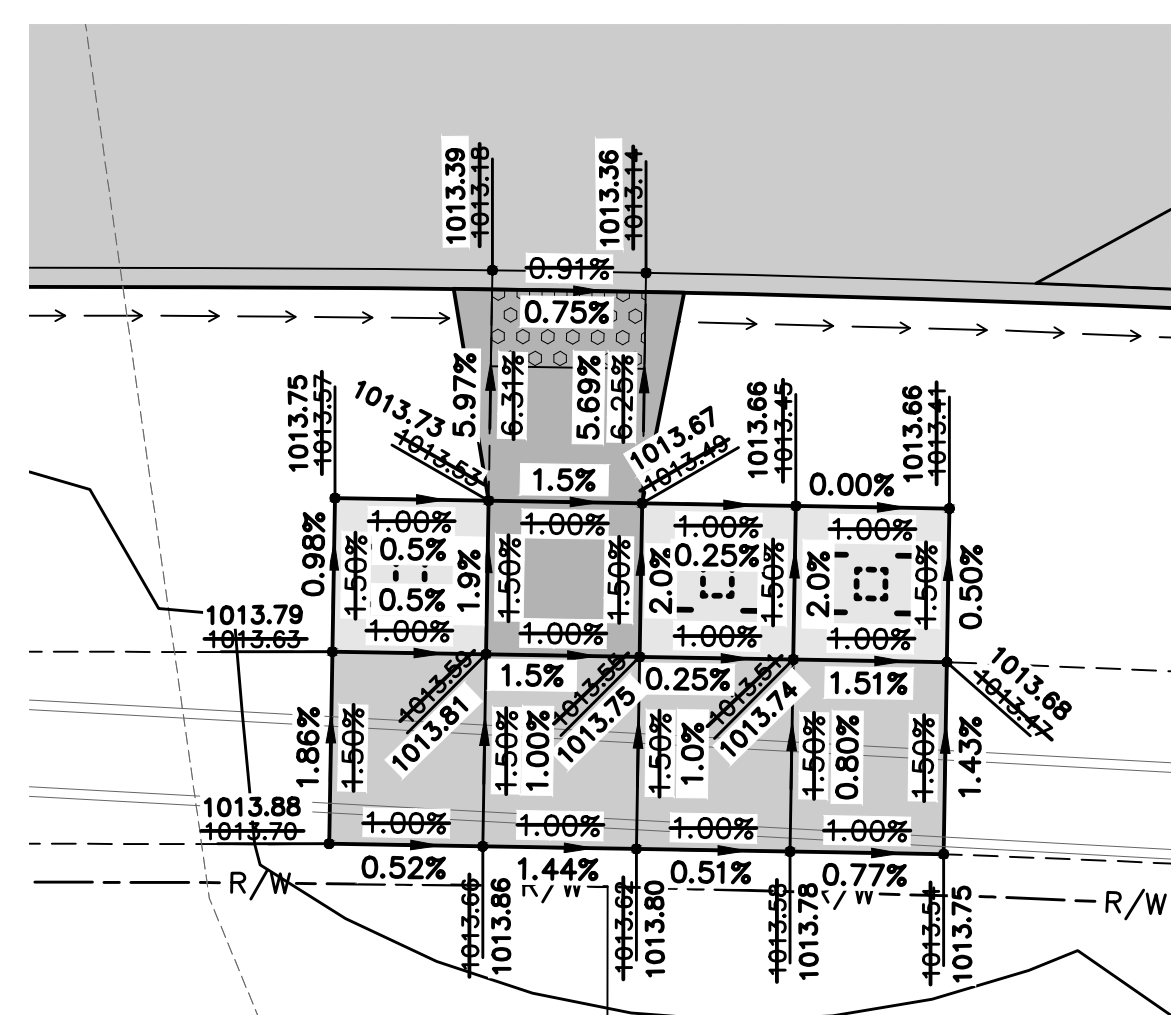
**GRADING NOTES**

- 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.
- EXISTING TOPOGRAPHIC SURVEY SHOWN AT BOUNDARY OF EXISTING PLATS IS SHOWN AS THE DESIGN GRADES FROM STRATFORD CROSSING PLATS 6-8. ACTUAL CONDITIONS MAY DIFFER FROM WHAT IS SHOWN.

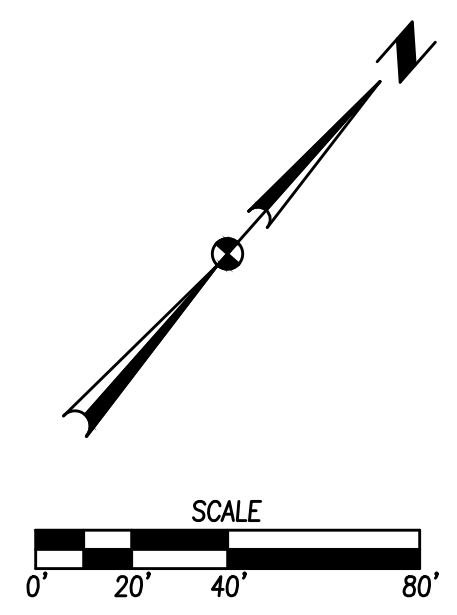
**AREA OF DISTURBANCE = 9.23 AC**



**DETAIL 'A' (1" = 40' FULL-SIZE)**



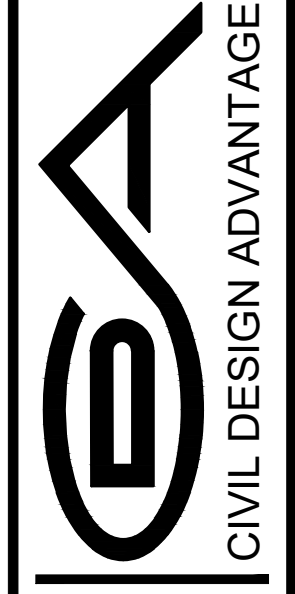
**DETAIL 'B' (1" = 5' FULL-SIZE)**



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 DATE PLOTTED: 10/17/2021 9:43 AM

| DATE       | REVISIONS          |
|------------|--------------------|
| 10/11/2021 | AS-BUILT SUBMITTAL |
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| 03/02/2021 | SECOND SUBMITTAL   |
| 01/26/2021 | FIRST SUBMITTAL    |

3405 S.E. CROSSROADS DRIVE, SUITE G  
 GRIMES, IOWA 50111  
 PHONE: (515) 369-4400 FAX: (515) 369-4410  
 ENGINEER: EKO



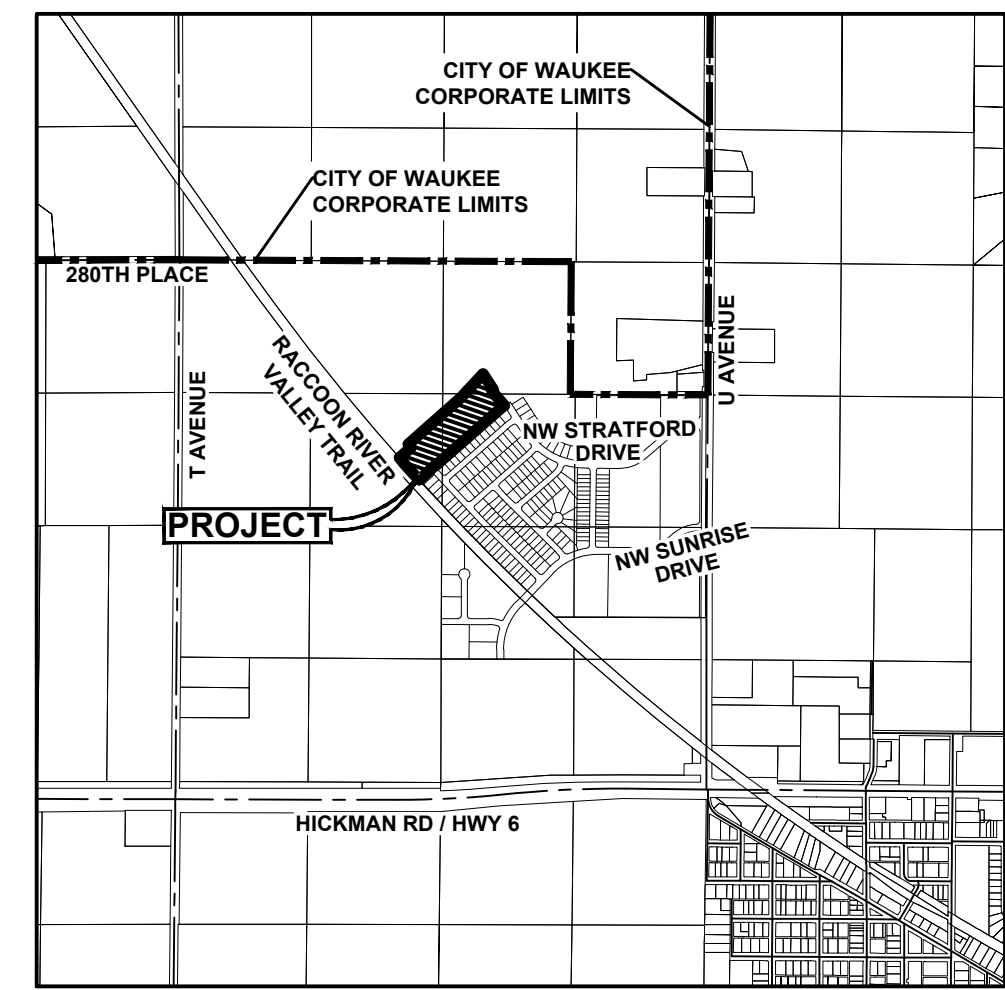
**STRATFORD CROSSING PLAT 9**  
**GRADING PLAN**

# STRATFORD CROSSING PLAT 9

## EROSION AND SEDIMENT CONTROL PLAN

### VICINITY MAP

NOT TO SCALE

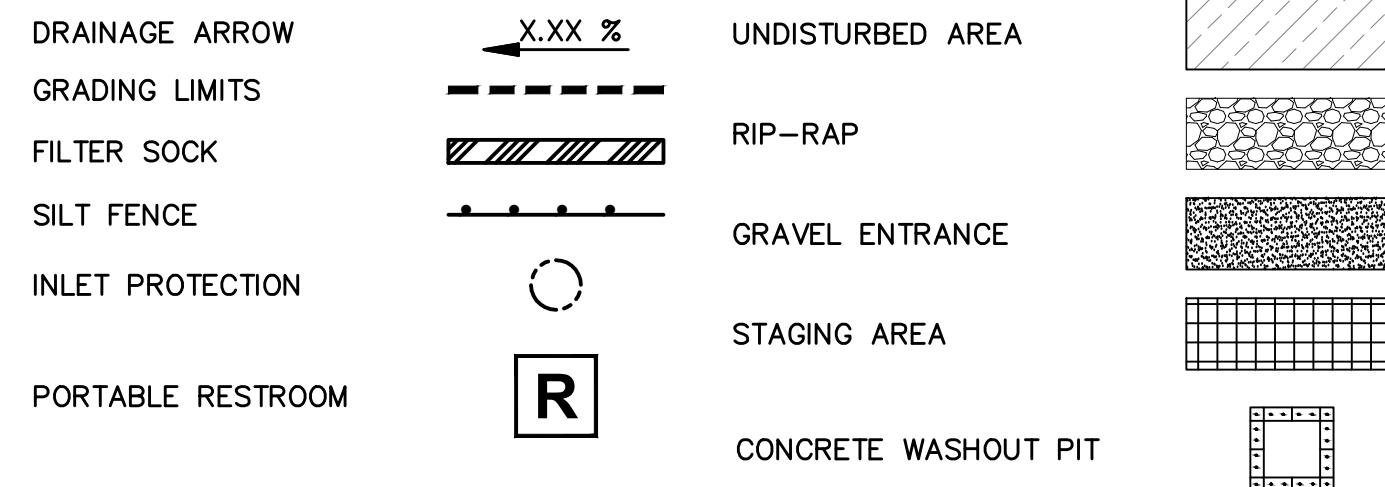


WAUKEE, IOWA

### STABILIZATION QUANTITIES

| ITEM NO. | ITEM                               | UNIT | TOTAL |
|----------|------------------------------------|------|-------|
| 1        | SILT FENCE                         | LF   | 2,605 |
| 2        | FILTER SOCK                        | LF   | 60    |
| 3        | SEEDING, FERTILIZING, AND MULCHING | AC   | 8.40  |
| 4        | INLET PROTECTION DEVICES           | EA   | 6     |
| 5        | CONCRETE WASHOUT PIT               | EA   | 1     |

### SWPPP LEGEND

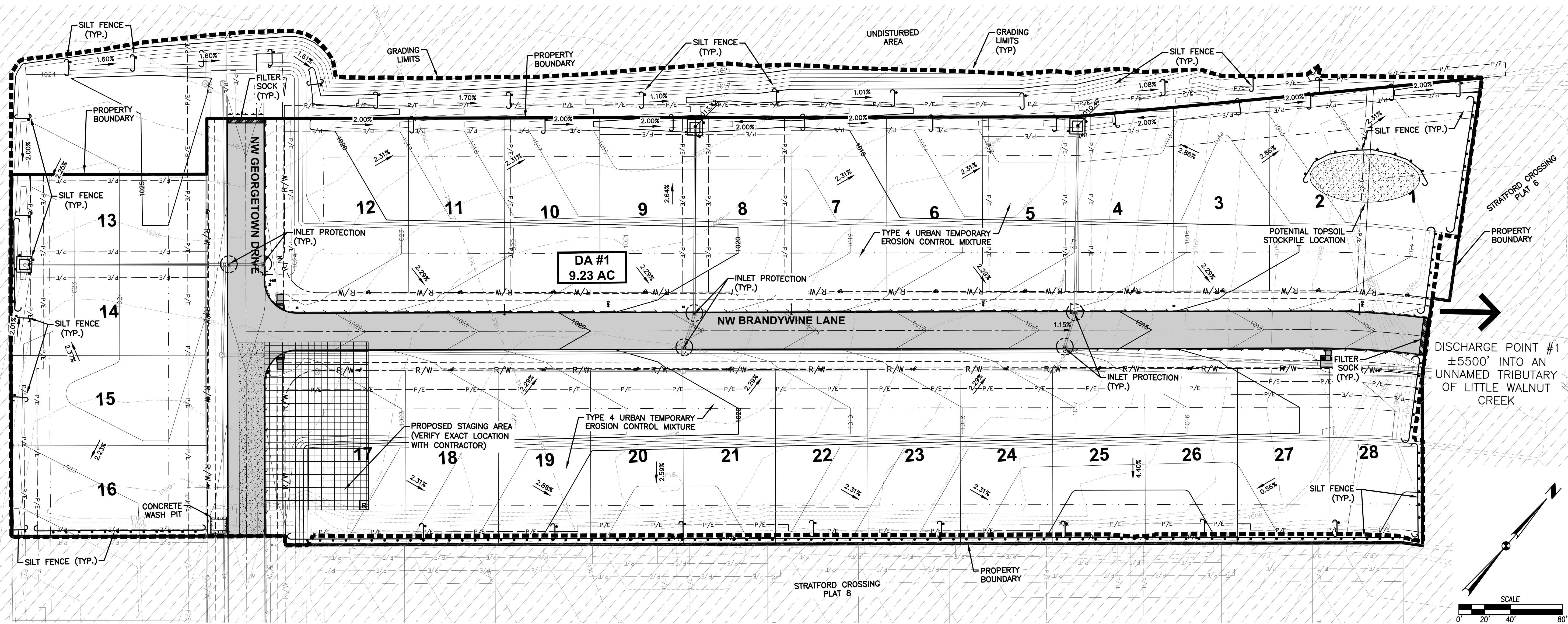


### DISCHARGE POINT SUMMARY

|  |              |
|--|--------------|
| DISCHARGE POINT #1 TO LITTLE WALNUT CREEK ±5500 FT                           | 9.23 ACRES   |
| TOTAL AREA DISTURBED TO DISCHARGE POINT                                      | 33,228 CU FT |
| STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)                              |              |
| VOLUME PROVIDED IN SILT FENCE DITCH CHECK (1505 LF @ 15.0 CU FT/LF OF FENCE) | 22,575 CU FT |
| VOLUME PROVIDED IN SILT FENCE IN SWALE (1100 LF @ 10.0 CU FT/LF OF FENCE)    | 11,000 CU FT |
| VOLUME PROVIDED IN FILTER SOCK (60 LF @ 2.0 CU FT/LF OF SOCK)                | 120 CU FT    |
| TOTAL VOLUME PROVIDED  | 33,695 CU FT |

### 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.



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 PLOTTED BY: WALTER THOMPSON

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 PHONE: (515) 369-4400 FAX: (515) 369-4410  
 TECH: \_\_\_\_\_  
 ENGINEER: EKO

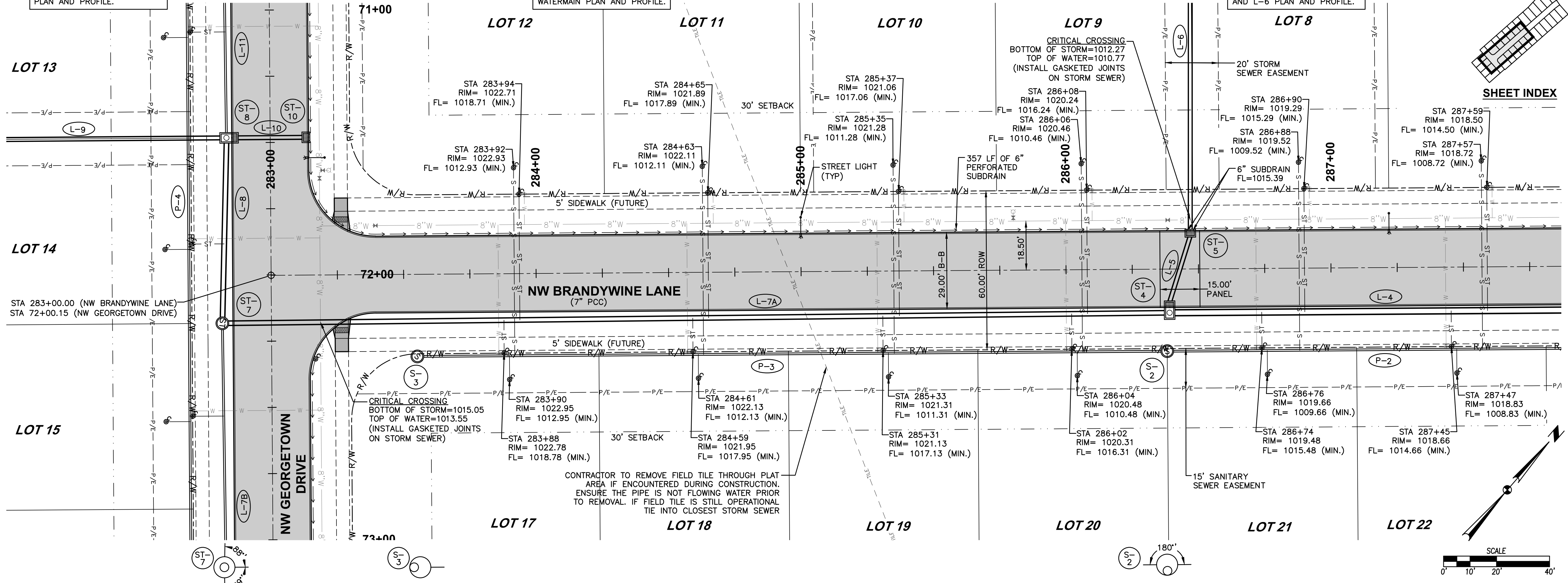
**STRATFORD CROSSING PLAT 9**  
**EROSION AND SEDIMENT CONTROL PLAN**  
 WAUKEE, IOWA

7 / 16  
 2012.684

REFER TO SHEET 12 FOR L-9  
PLAN AND PROFILE.

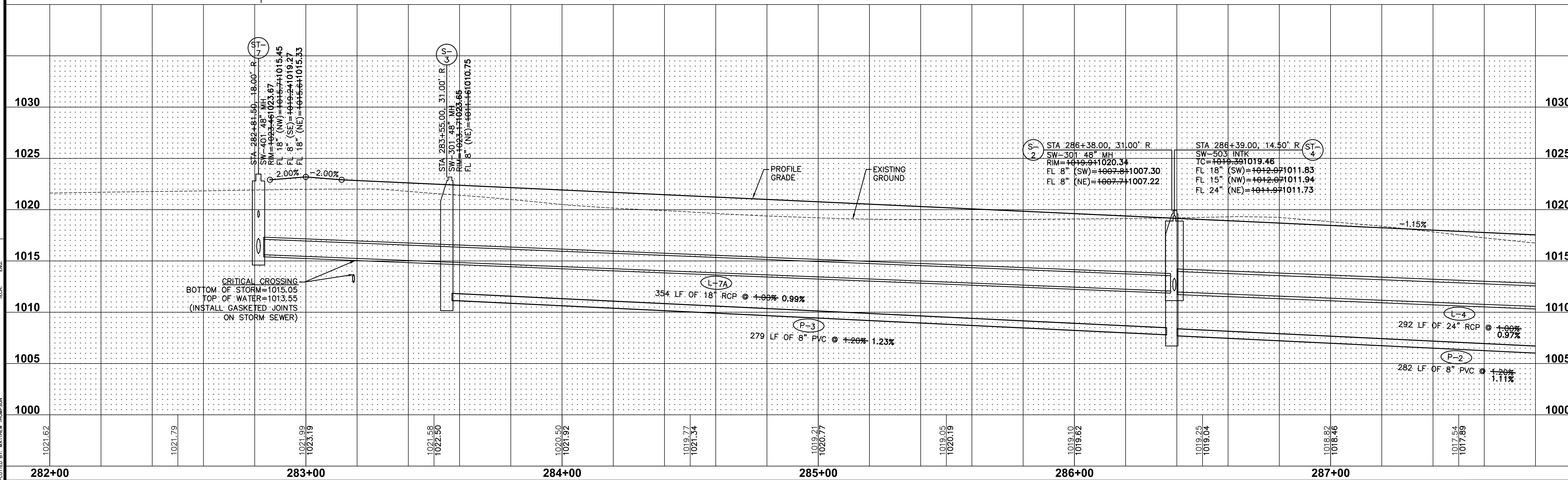
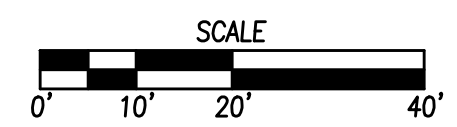
REFER TO SHEET 13 FOR  
WATERMAIN PLAN AND PROFILE.

REFER TO SHEET 11 FOR L-5  
AND L-6 PLAN AND PROFILE.



**SHEET INDEX**

|                    |            |
|--------------------|------------|
| DATE               | 10/11/2021 |
| AS-BUILT SUBMITTAL | 04/29/2021 |
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| THIRD SUBMITTAL    | 03/02/2021 |
| FIRST SUBMITTAL    | 01/26/2021 |



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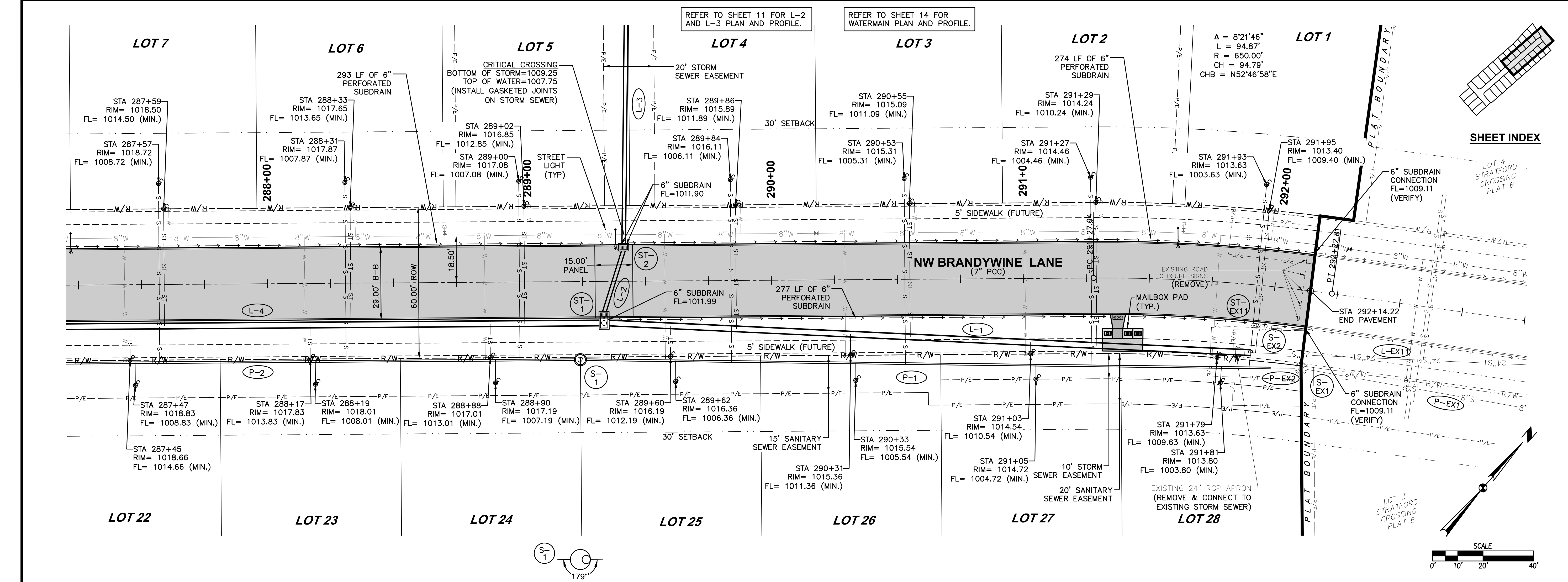
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**STRATFORD CROSSING PLAT 9**  
SANITARY AND STORM SEWER PLAN AND PROFILE  
WAUKEE, IOWA

**EDA**  
CIVIL DESIGN ADVANTAGE

3405 S.E. CROSSROADS DRIVE, SUITE G  
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PHONE: (515) 369-4400 FAX: (515) 369-4410

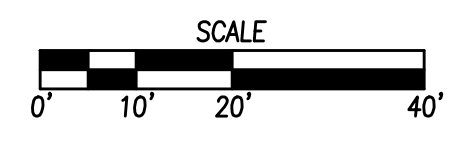
TECH: ENGINEER: EKO



REFER TO SHEET 11 FOR L-2 AND L-3 PLAN AND PROFILE.  
 REFER TO SHEET 14 FOR WATERMAIN PLAN AND PROFILE.

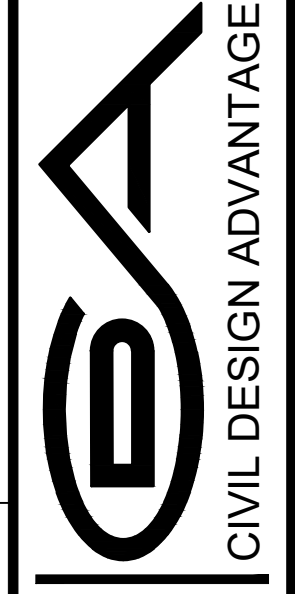
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 $L = 94.87'$   
 $R = 650.00'$   
 $CH = 94.79'$   
 $CHB = N52^{\circ}46'58''E$

SHEET INDEX



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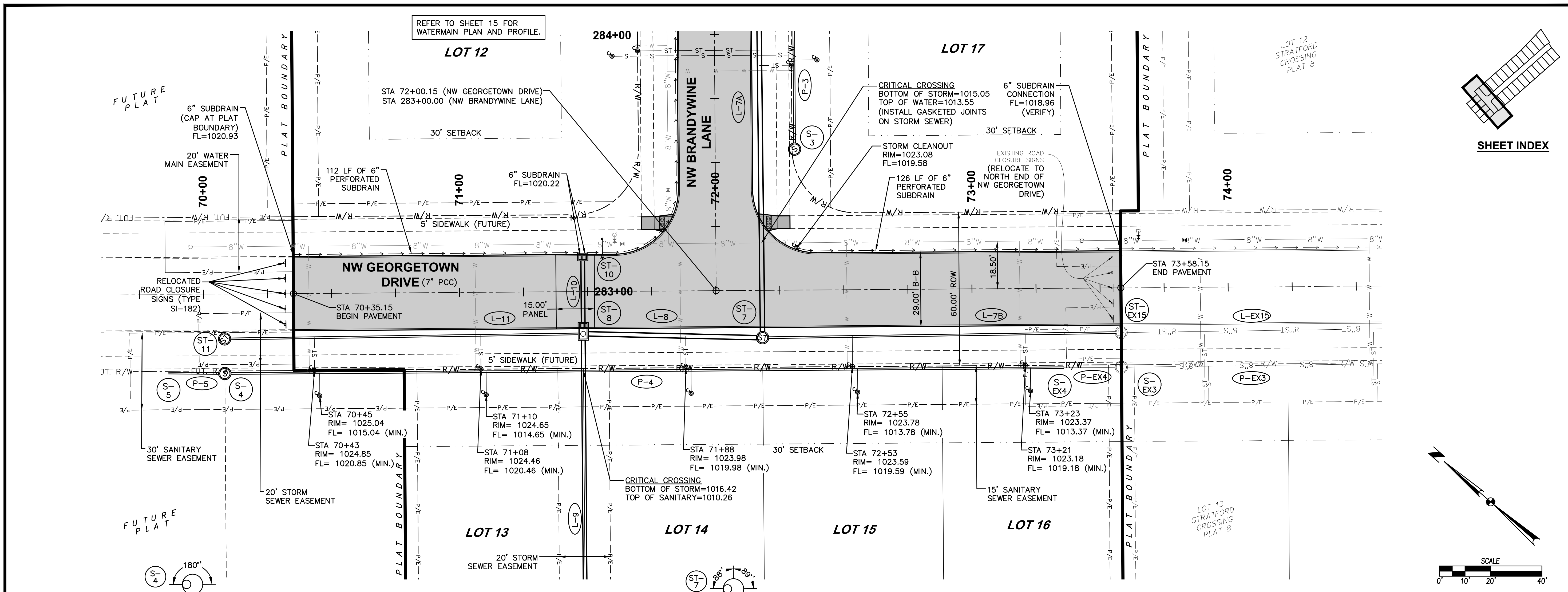
3405 S.E. CROSSROADS DRIVE, SUITE G  
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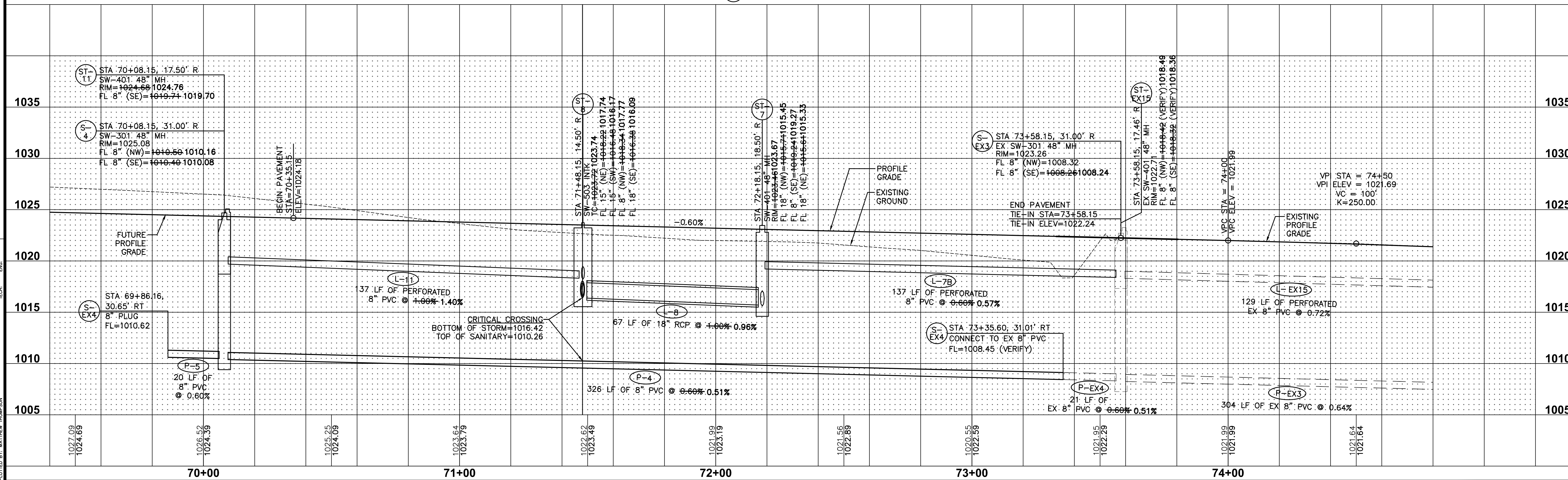
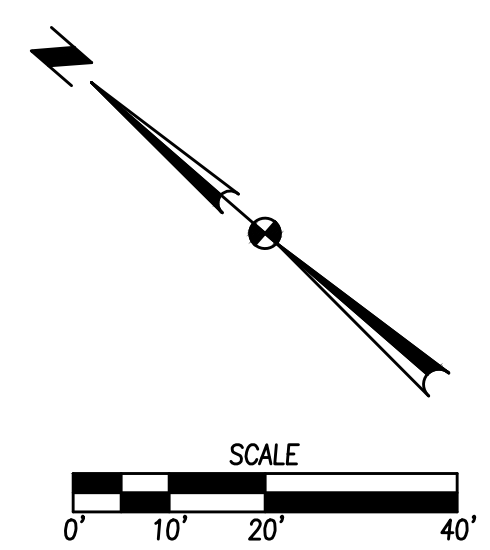
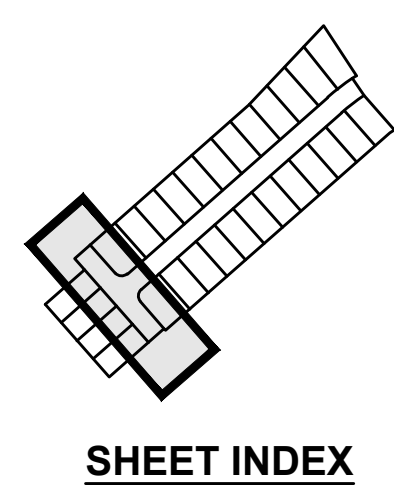
**STRATFORD CROSSING PLAT 9**  
 SANITARY AND STORM SEWER PLAN AND PROFILE  
 WAUKEE, IOWA

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 PLOTTED BY: WATERBURY THOMPSON

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REFER TO SHEET 15 FOR WATERMAIN PLAN AND PROFILE.



|                    |            |
|--------------------|------------|
| DATE               | 10/11/2021 |
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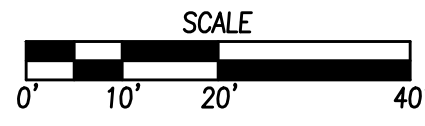
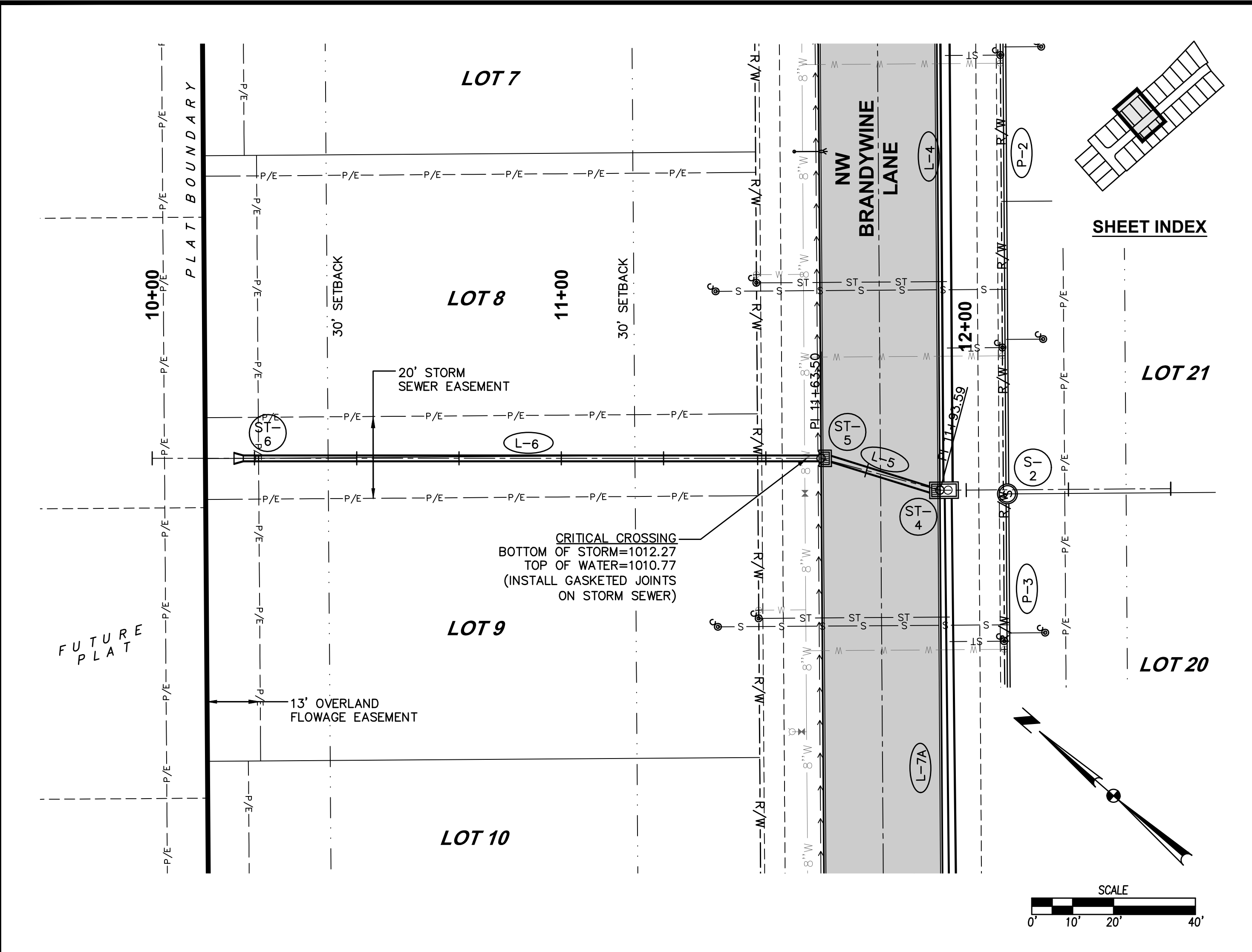
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**ES&A**  
CIVIL DESIGN ADVANTAGE

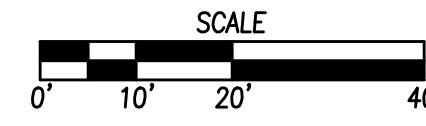
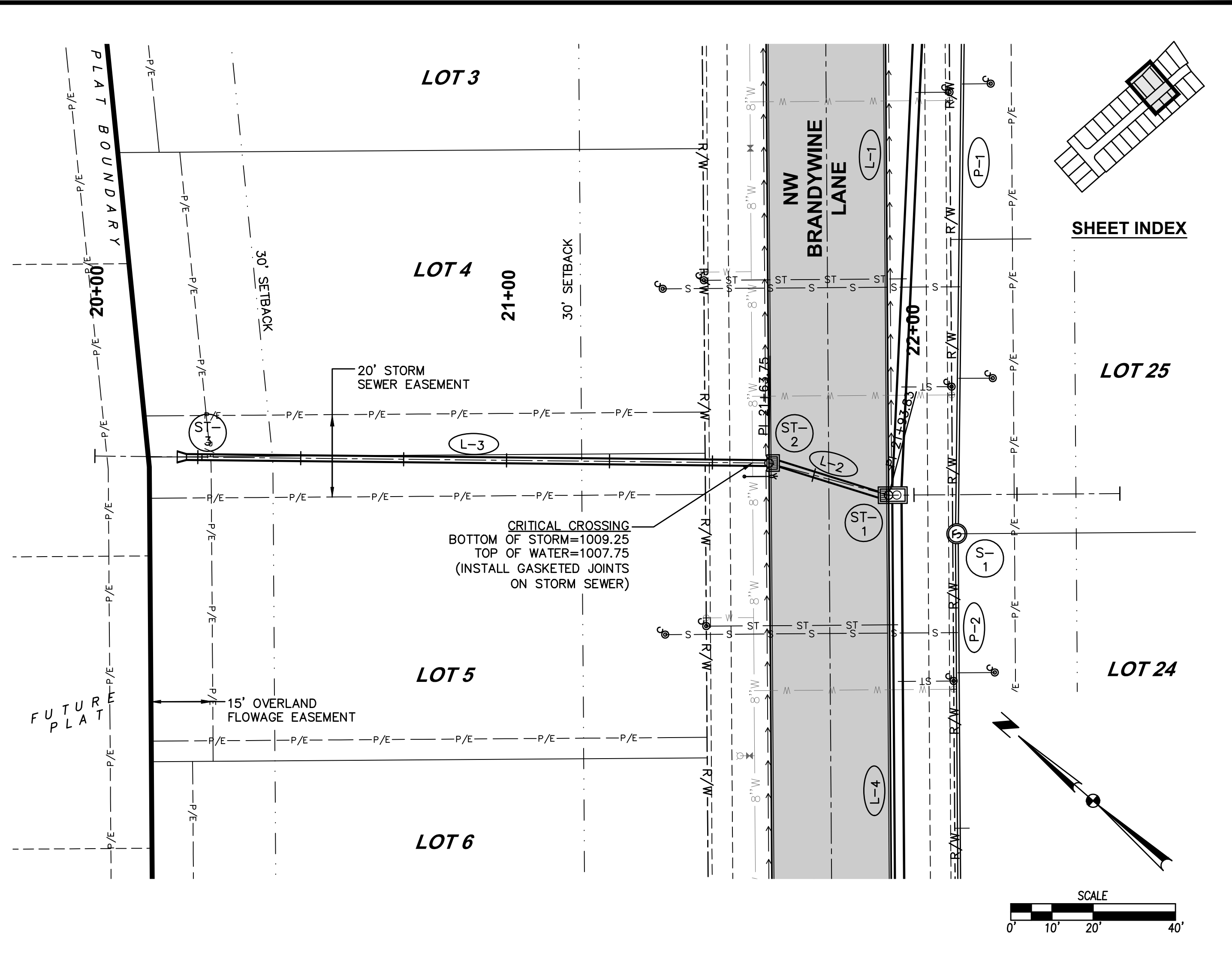
**STRATFORD CROSSING PLAT 9**  
SANITARY AND STORM SEWER PLAN AND PROFILE  
WAUKEE, IOWA

**10**  
**16**  
2012.684

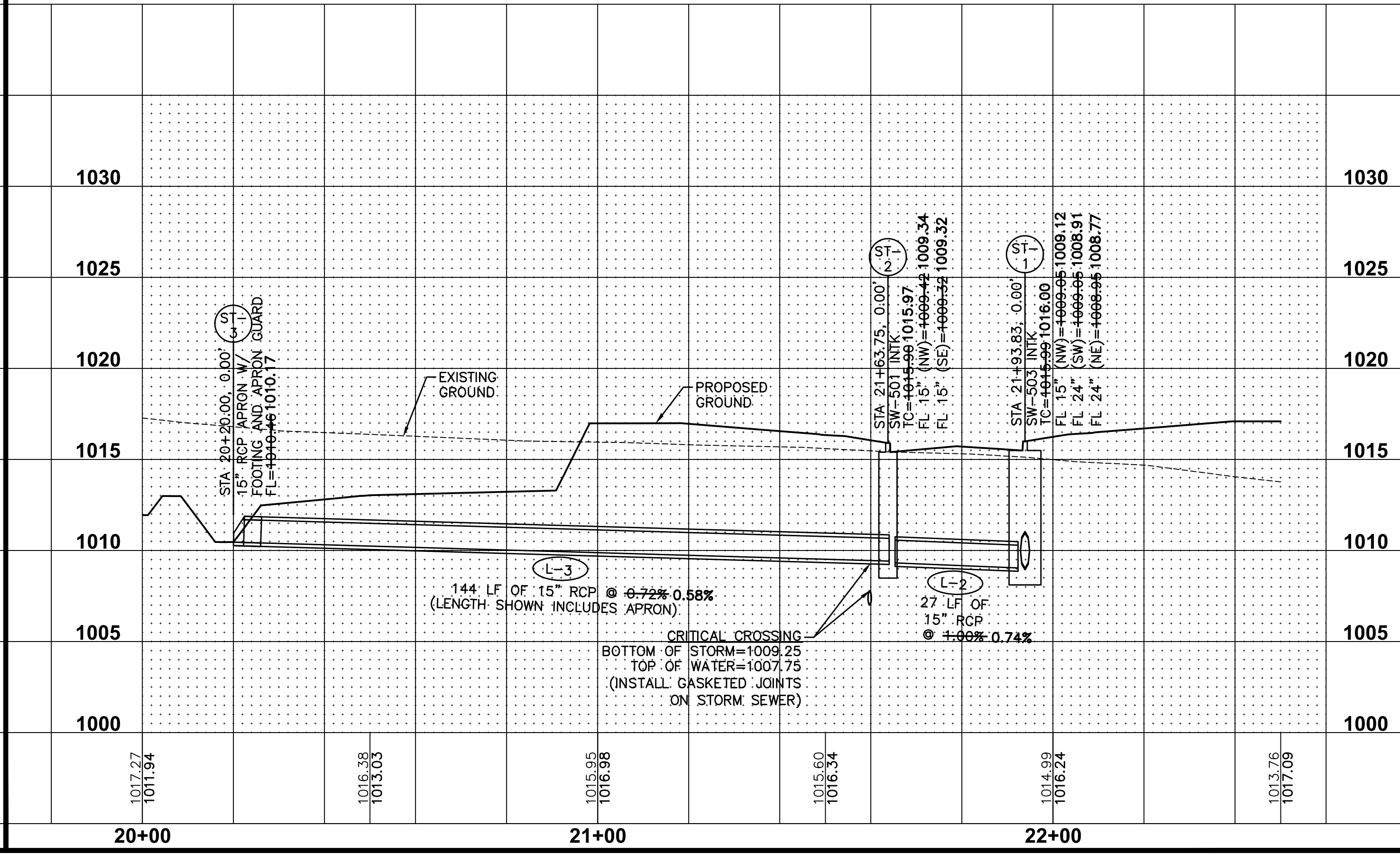
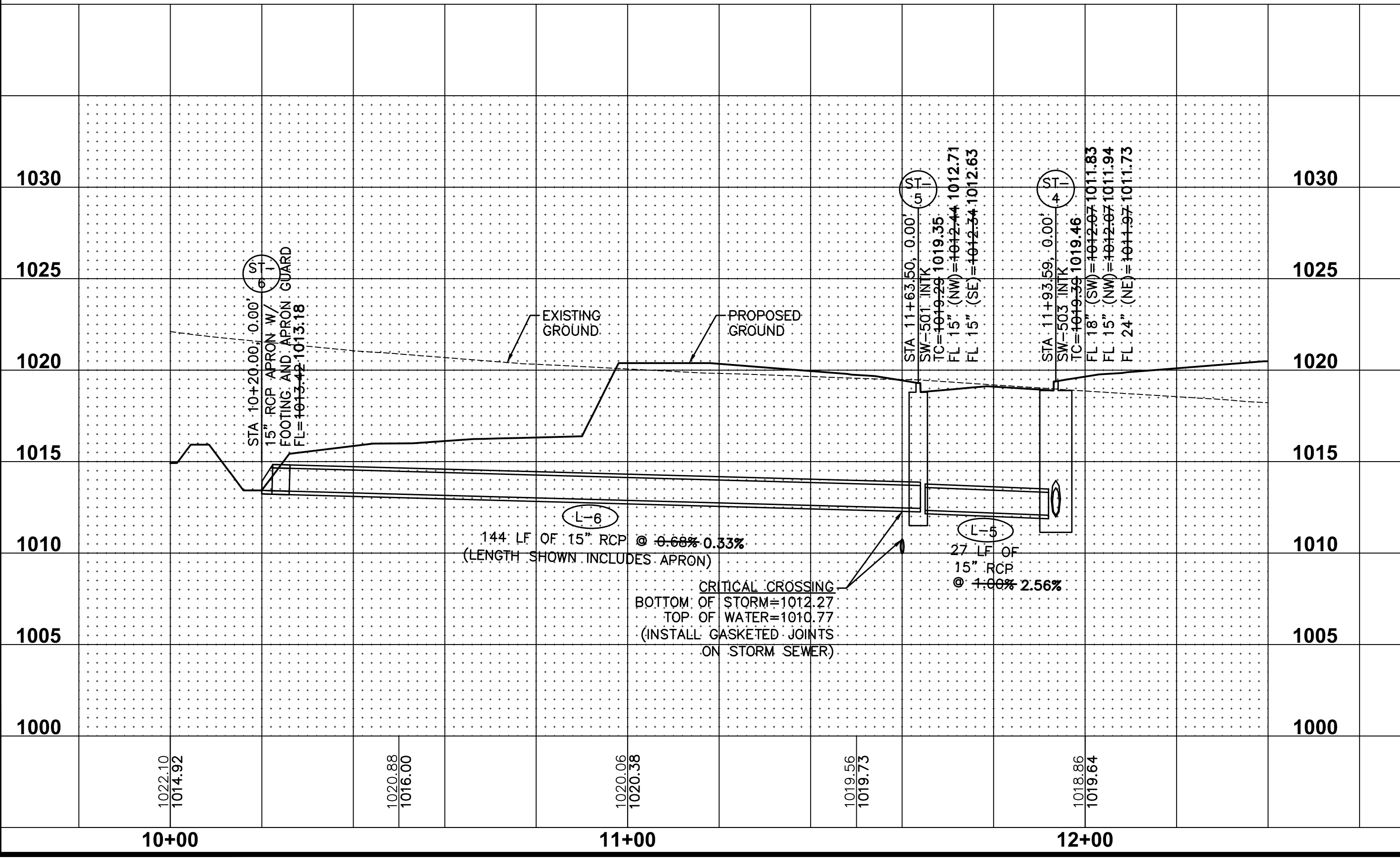
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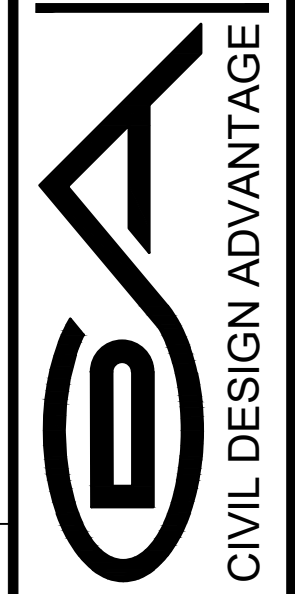
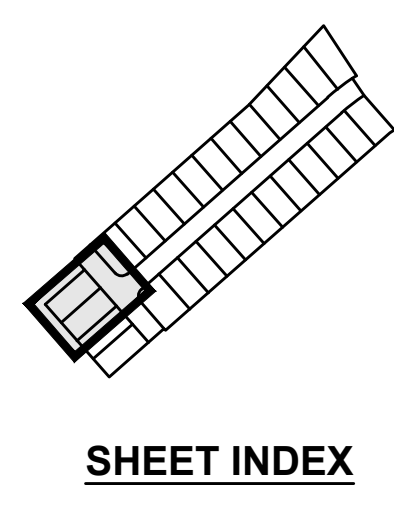
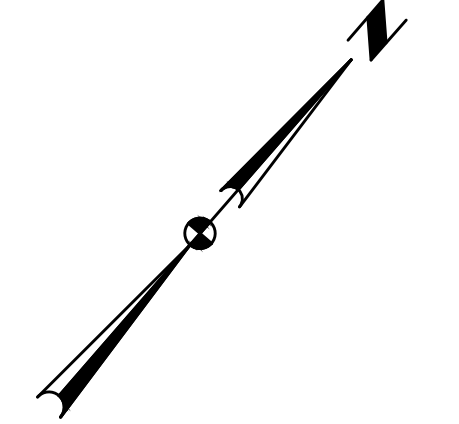
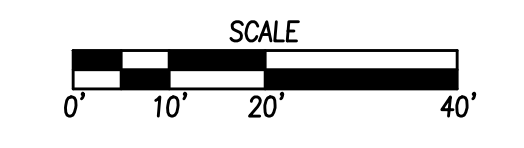
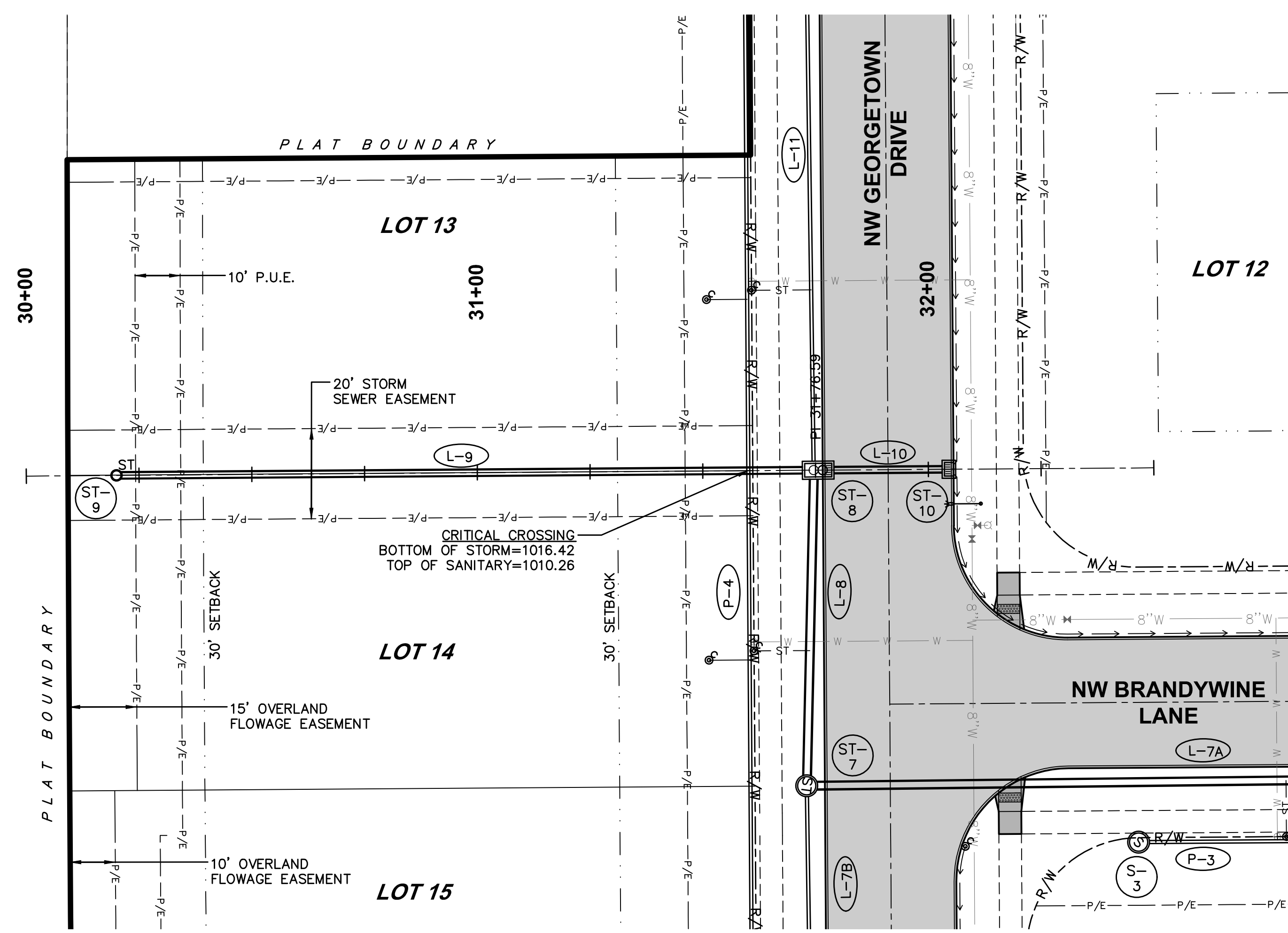
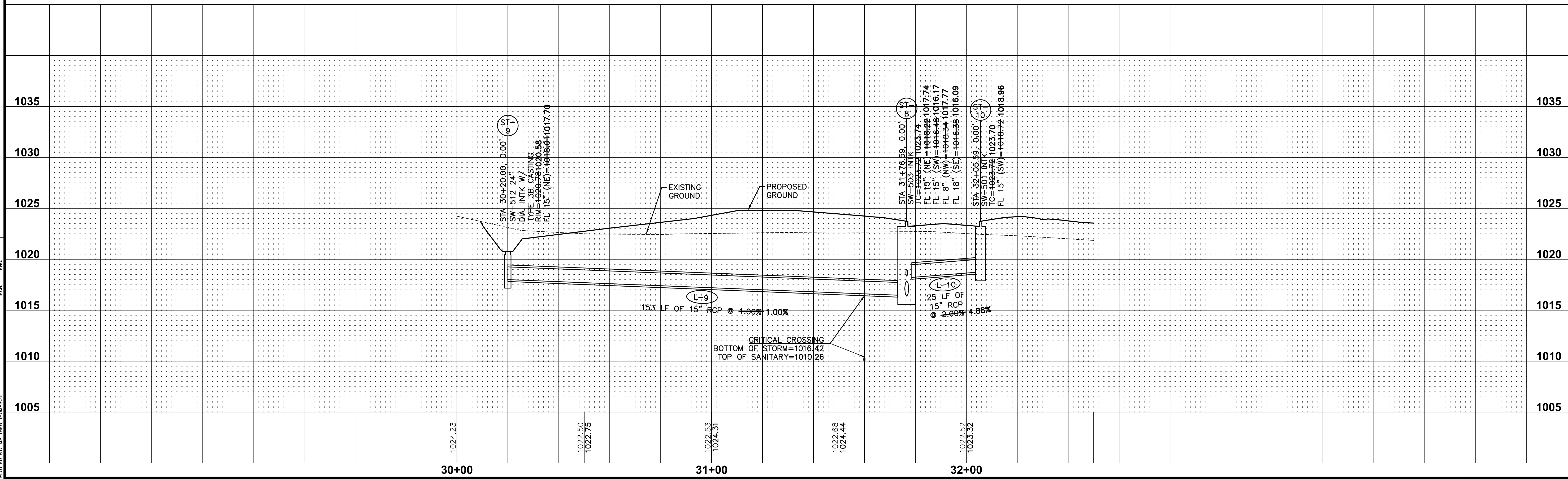
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**ESA**  
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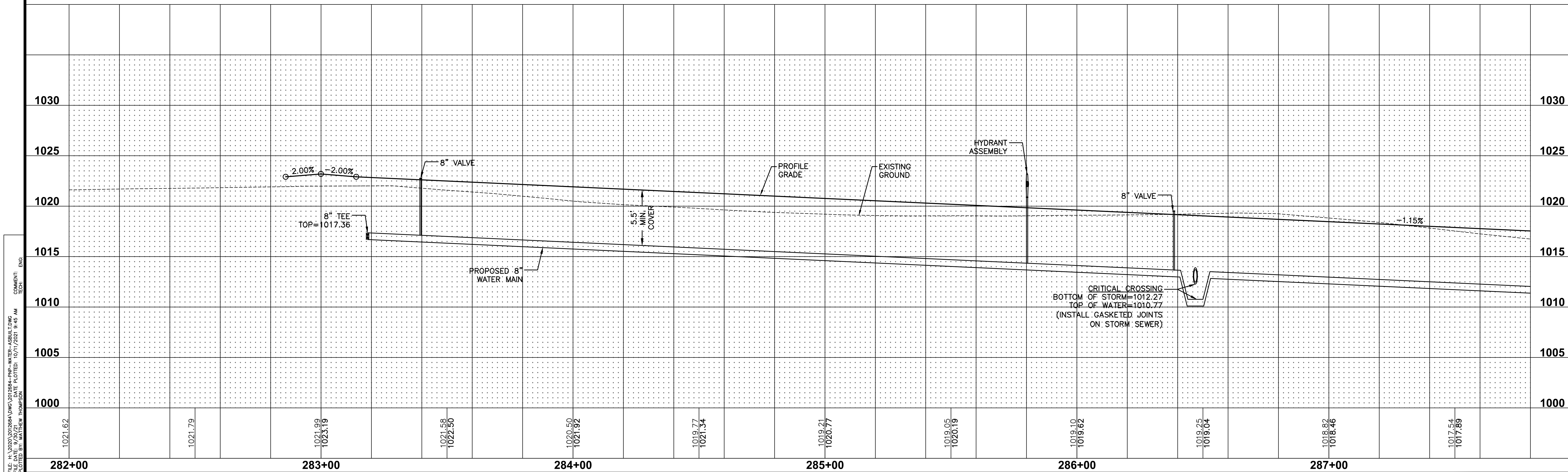
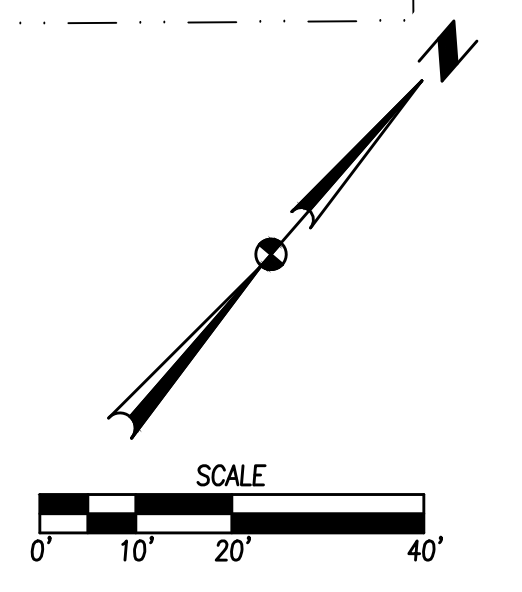
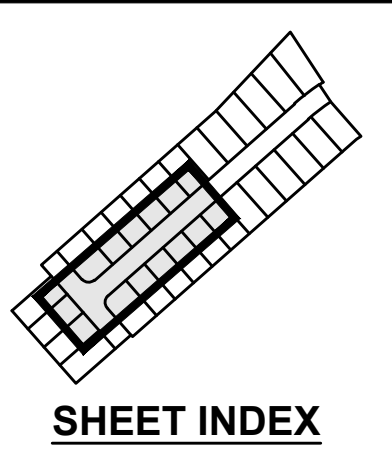
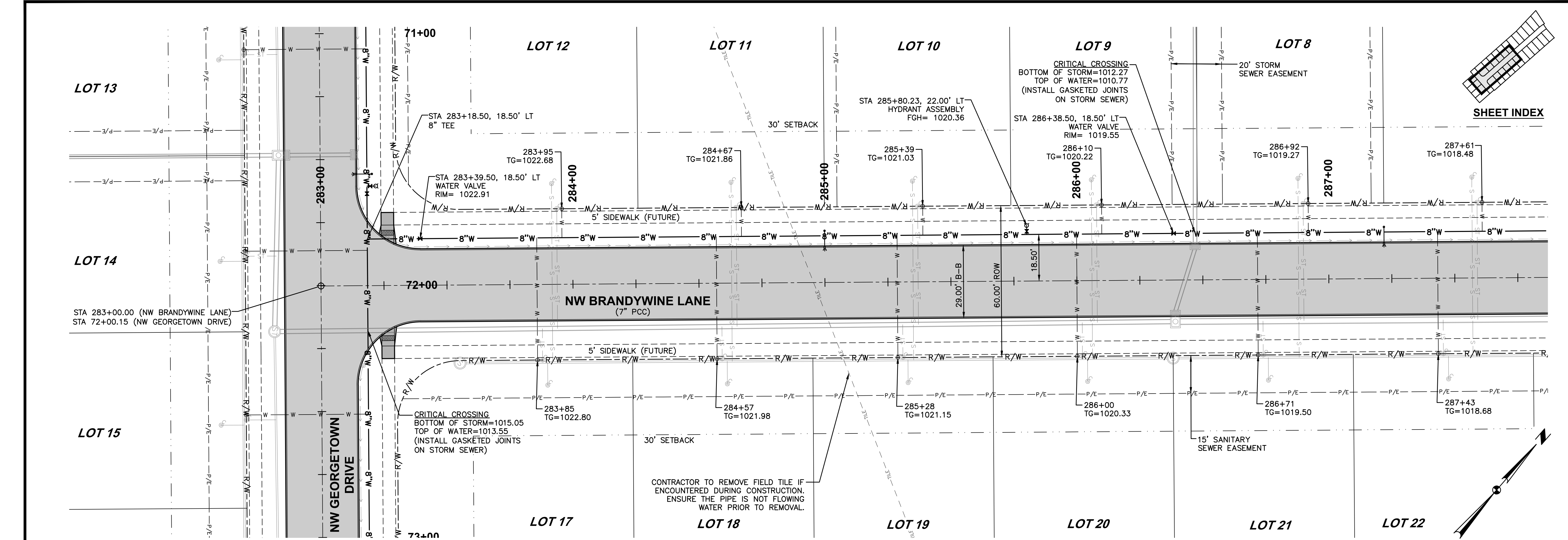
**STRATFORD CROSSING PLAT 9**  
 SANITARY AND STORM SEWER PLAN AND PROFILE  
 WAUKEE, IOWA

**11**  
**16**  
 2012.684

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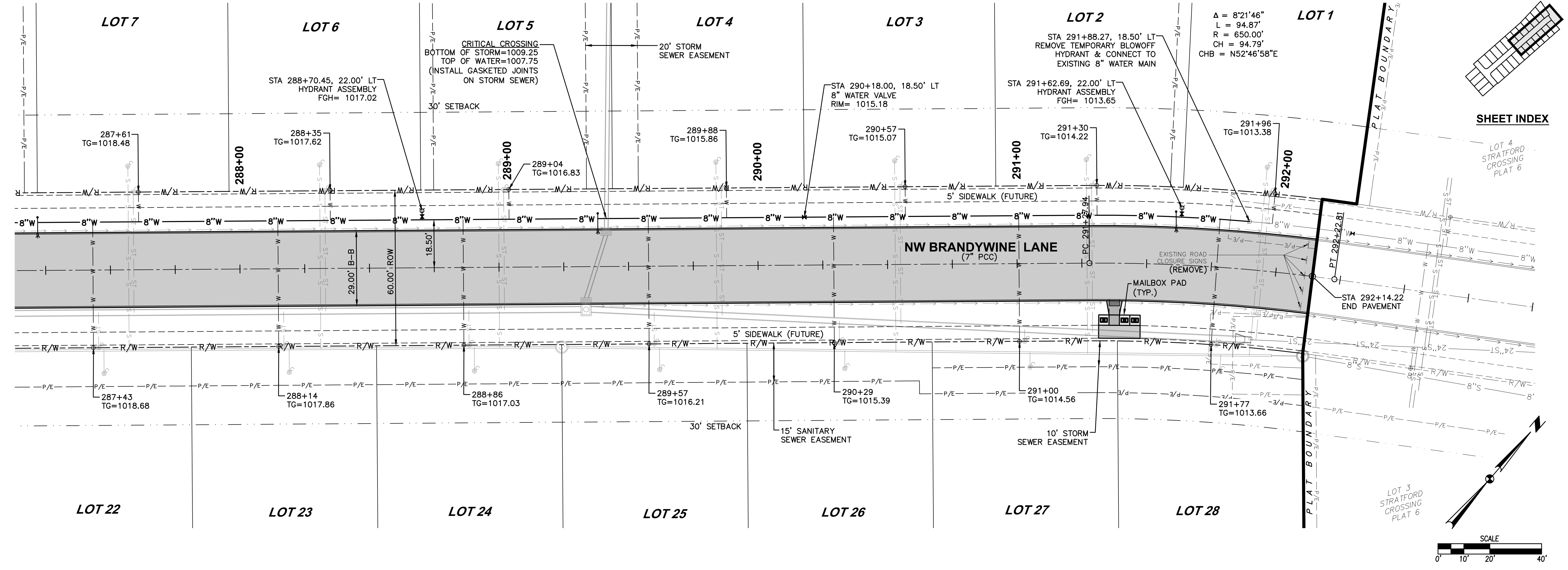
**ES&A**  
 CIVIL DESIGN ADVANTAGE

WATER MAIN PLAN AND PROFILE

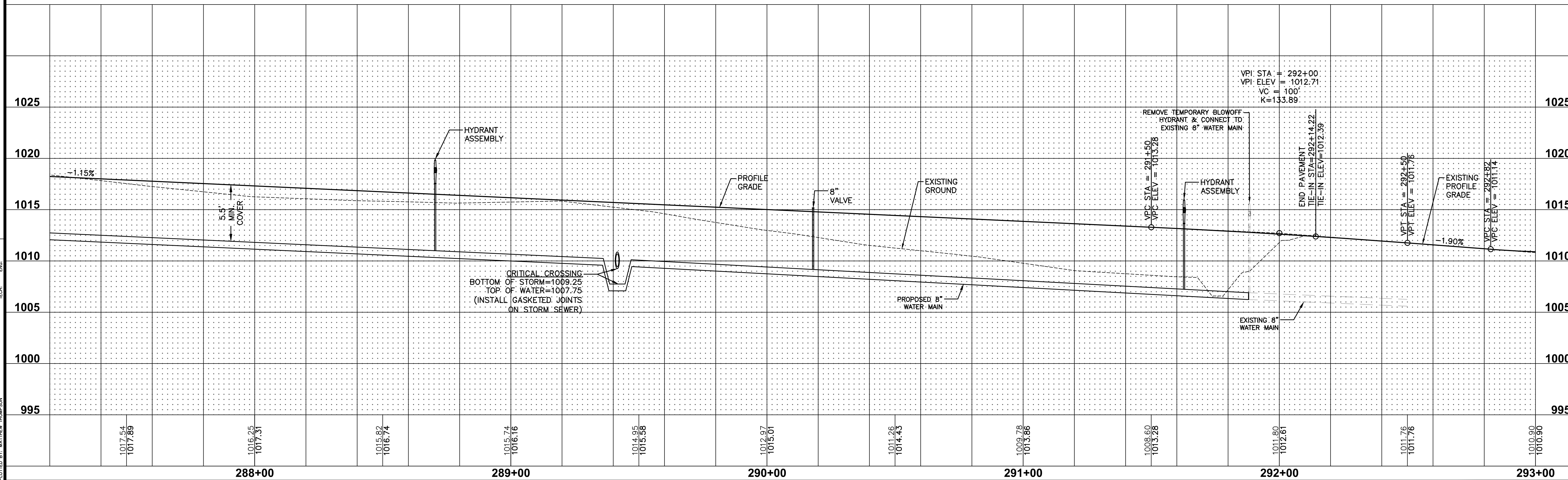
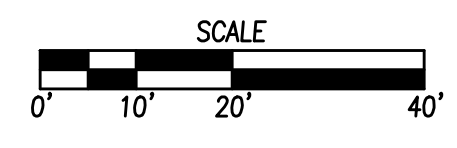
WAUKEE, IOWA

**13**  
**16**  
 2012.684

TECH: ENGINEER: EKO



$\Delta = 8'21'46''$   
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 $R = 650.00'$   
 $CH = 94.79'$   
 $CHB = N52'46'58''E$



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03/02/2021

**FIRST SUBMITTAL**  
01/26/2021

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**REVISIONS**

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PHONE: (515) 369-4400 FAX: (515) 369-4410

**TECH:**

**ENGINEER: EKO**

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**ES&A**  
CIVIL DESIGN ADVANTAGE

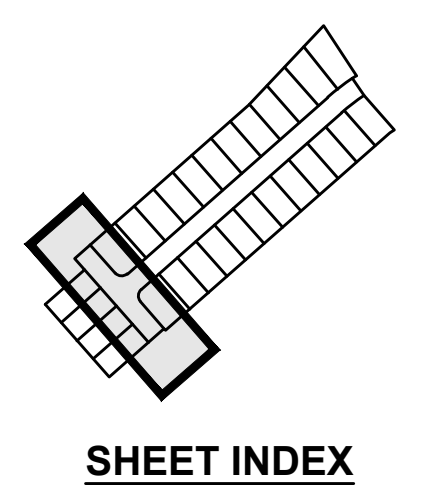
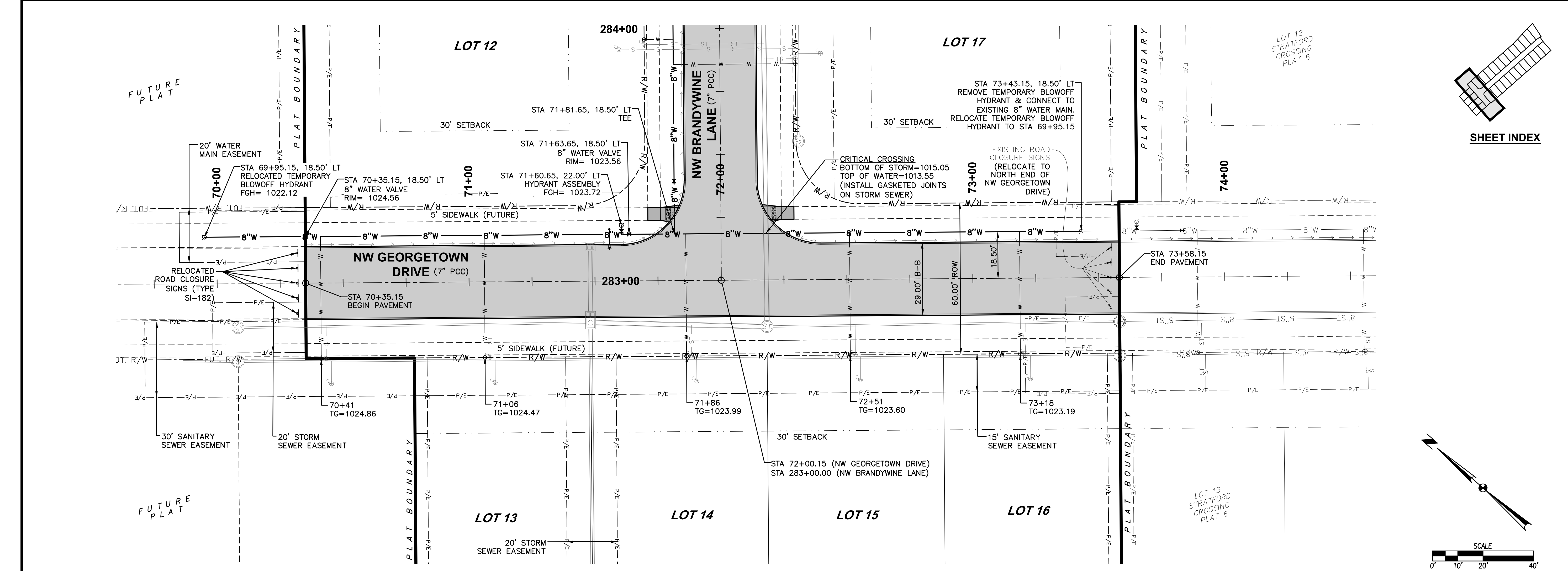
**WAUKEE, IOWA**

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**STRATFORD CROSSING PLAT 9**  
WATER MAIN PLAN AND PROFILE

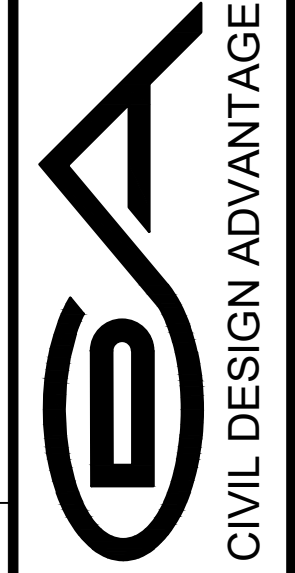
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**14**  
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2012.684

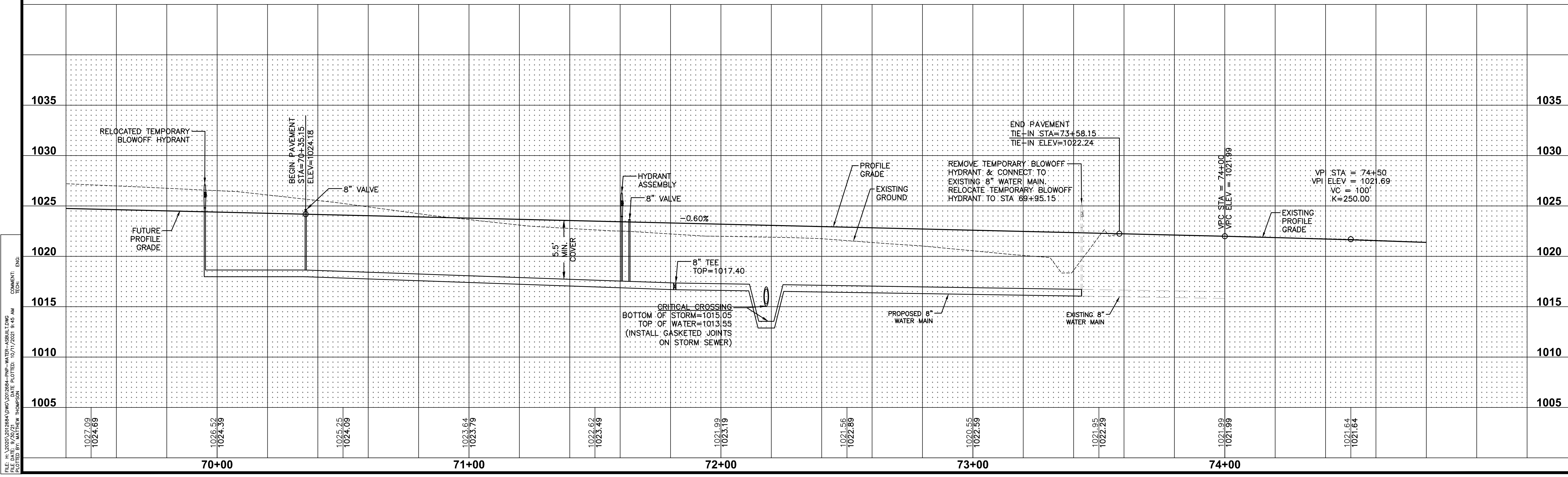


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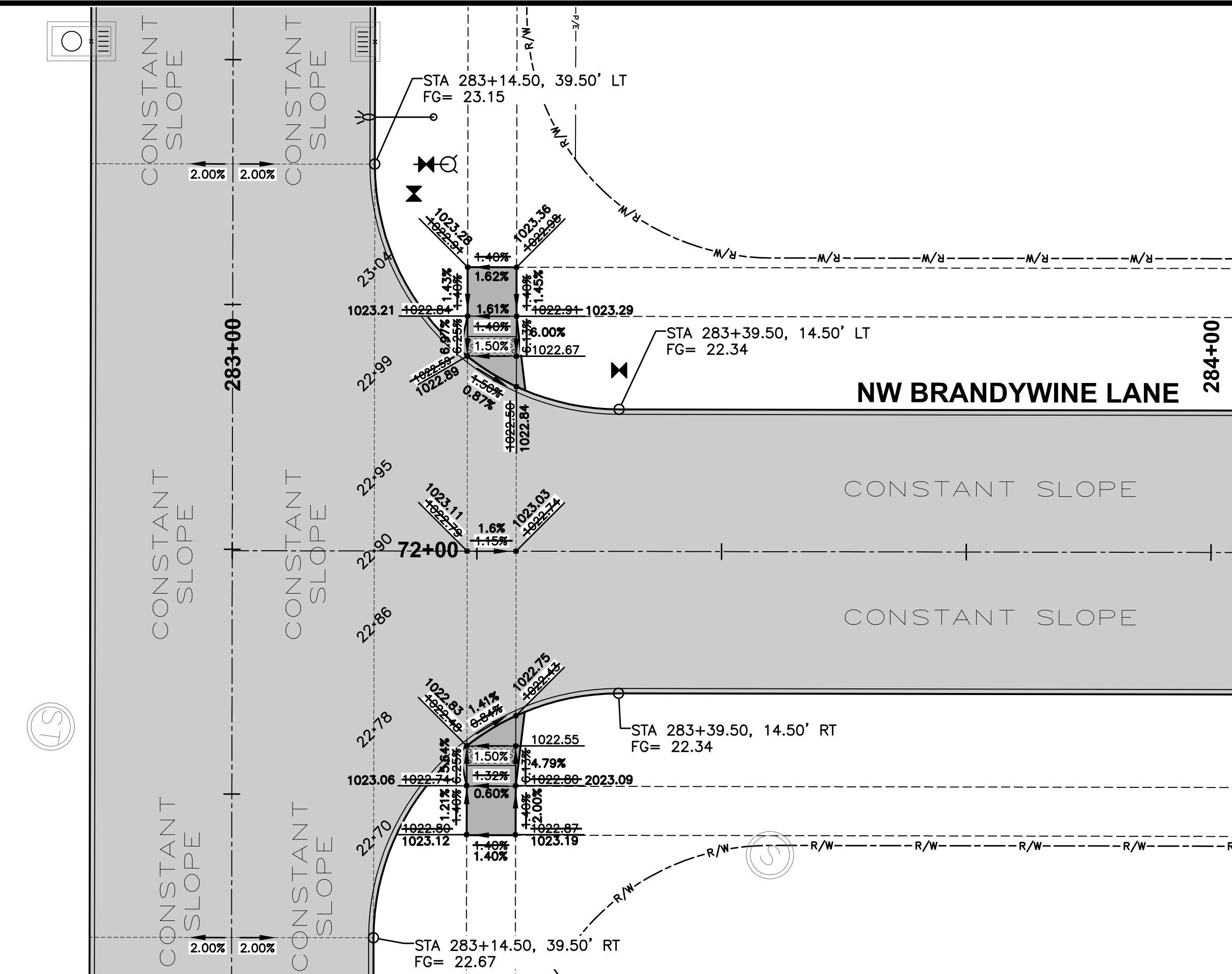
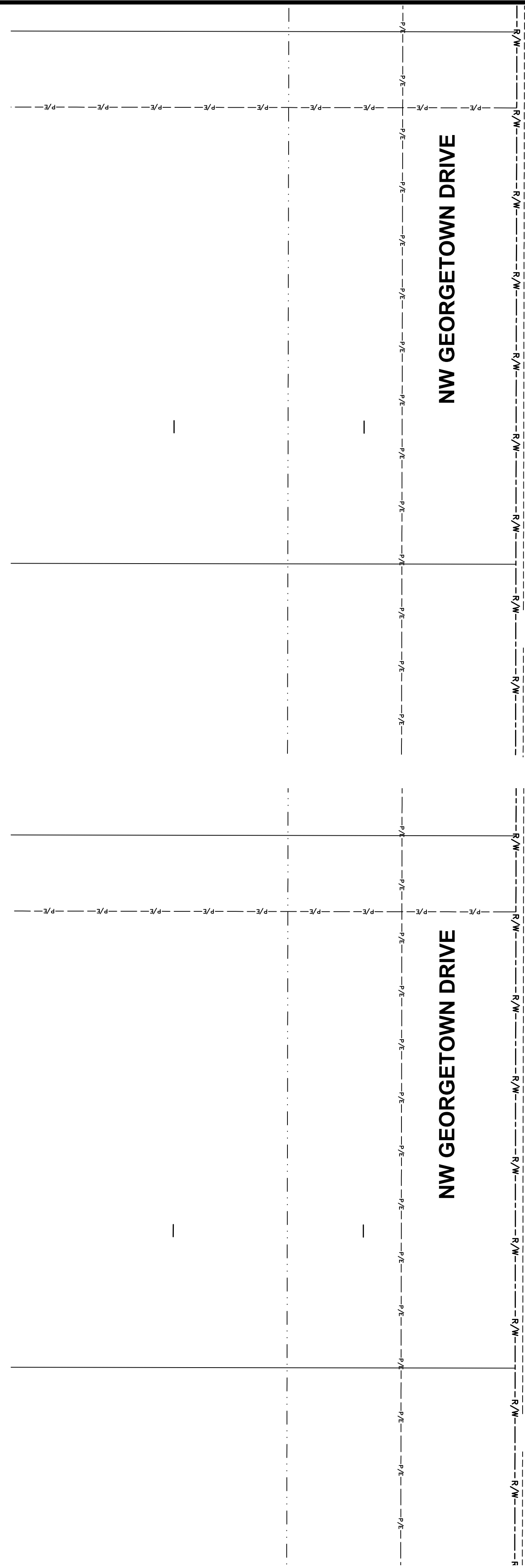


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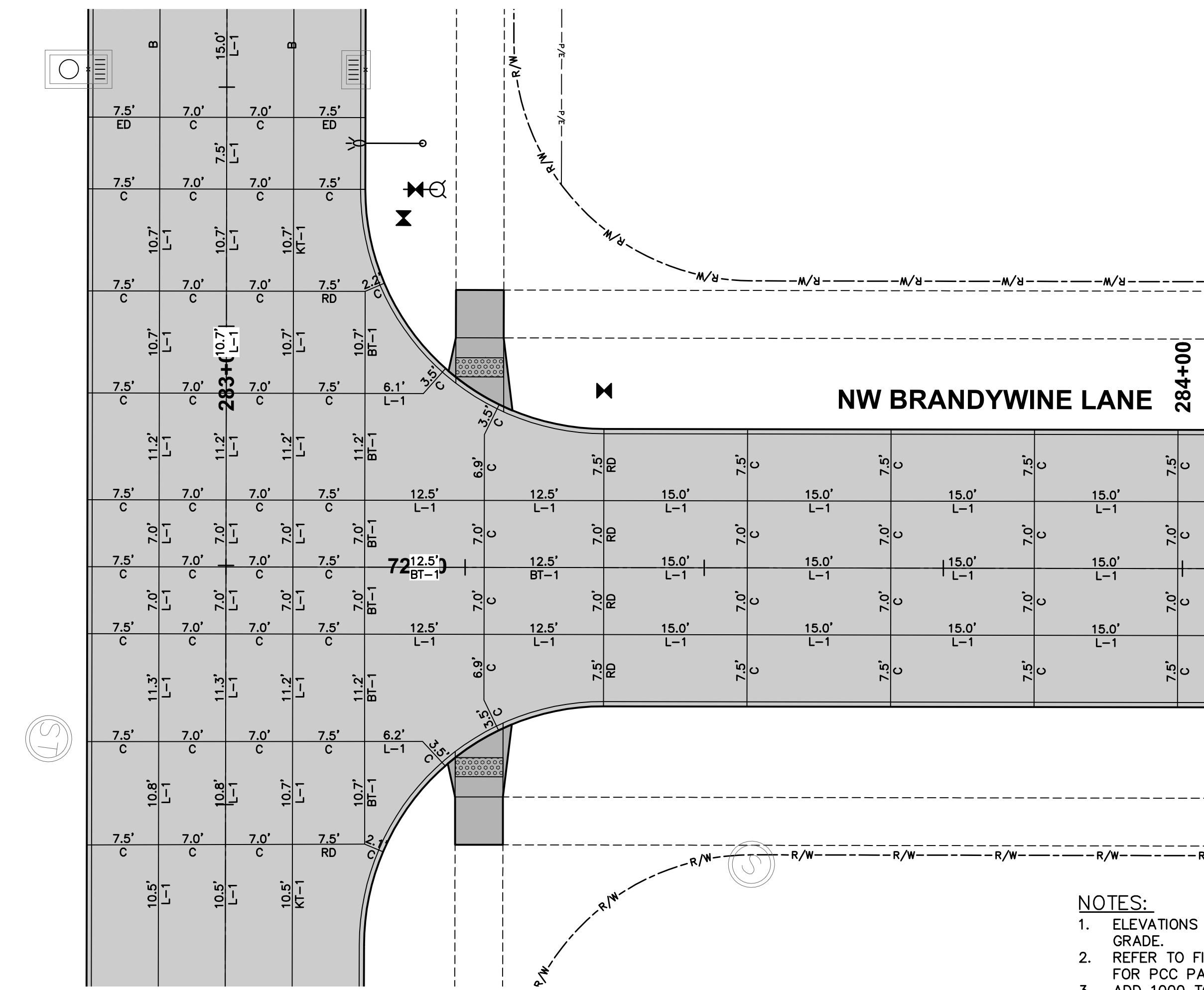


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**STRATFORD CROSSING PLAT 9**  
**WATER MAIN PLAN AND PROFILE**

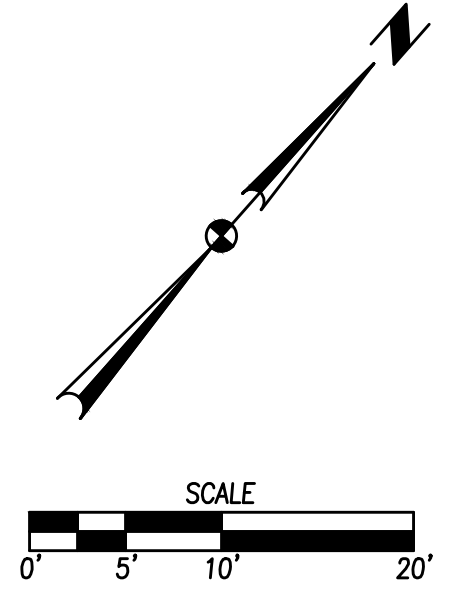


**GEOMETRICS AND STAKING LAYOUT**



**JOINTING LAYOUT**

- NOTES:**
- ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
  - REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
  - ADD 1000 TO FOUR DIGIT SPOT ELEVATIONS TO OBTAIN PROJECT DATUM.



|                    |            |
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**ESA**  
 CIVIL DESIGN ADVANTAGE

WAUKEE, IOWA

**STRATFORD CROSSING PLAT 9**  
**INTERSECTION DETAILS**

16/16  
 2012.684

ENGINEER: EKO  
 TECH: