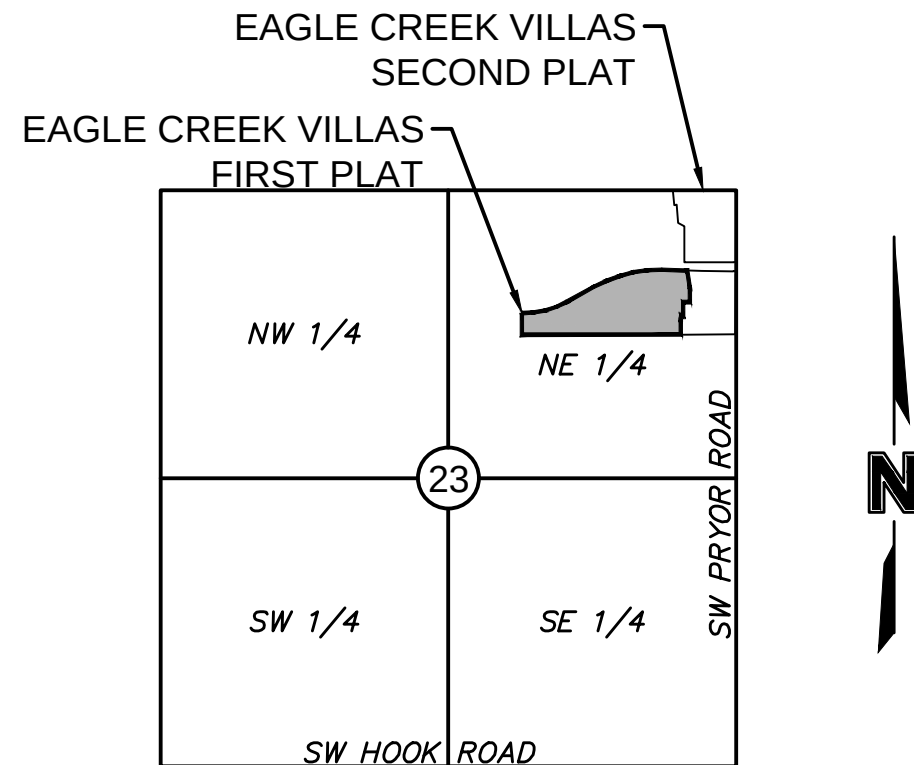




VICINITY MAP
SEC 23, TWP 47, RGE 32
SCALE 1"=2000'

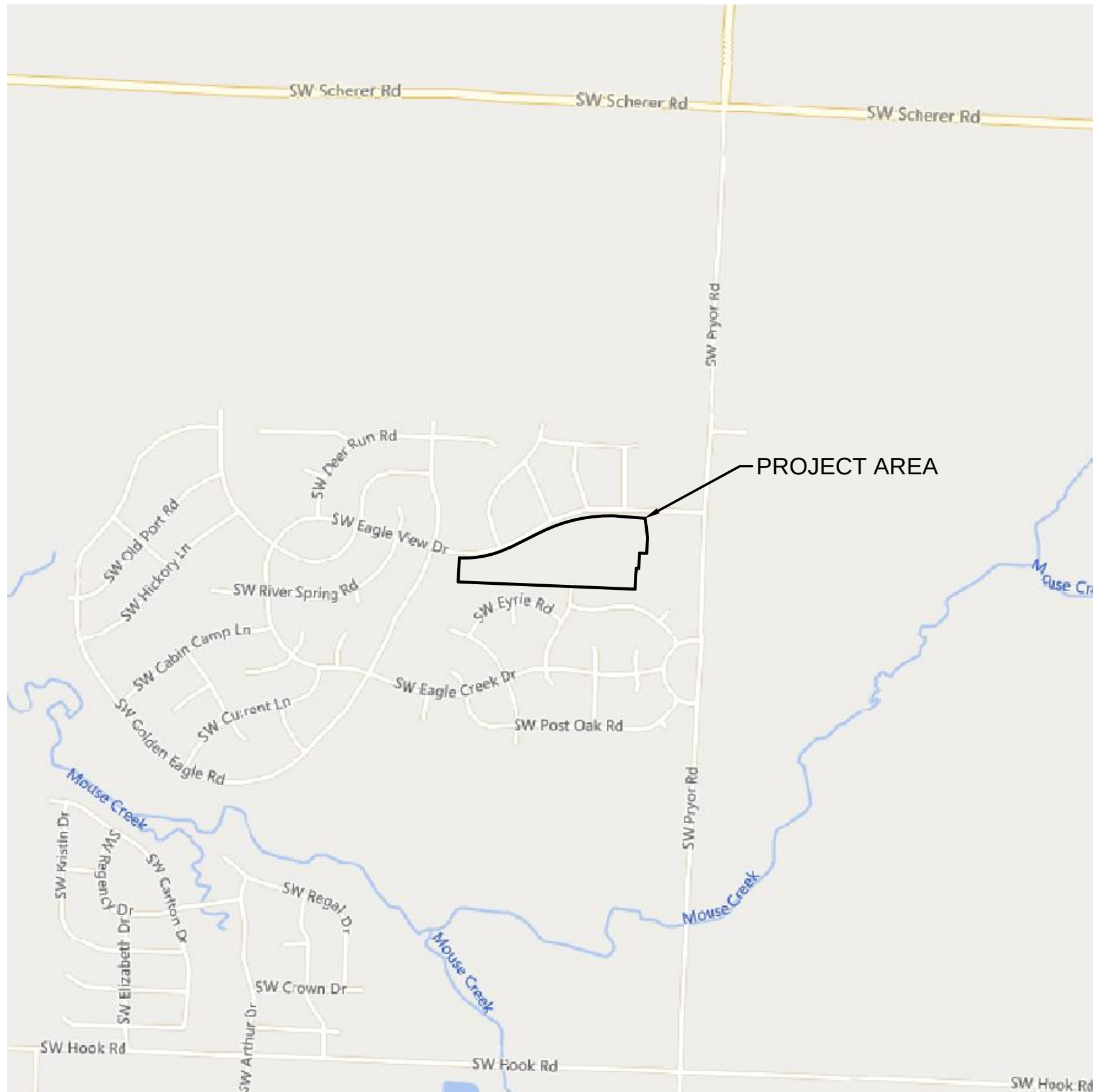
PROJECT TEAM & UTILITY CONTACT LIST	
<u>OWNER / DEVELOPER</u> HUNT MIDWEST REAL ESTATE DEVELOPMENT, INC 8300 NE UNDERGROUND DRIVE KANSAS CITY, MO 64161 CONTACT: AARON SCHMIDT PHONE: 816.455.2500 EMAIL: ASCHMIDT@HUNT MIDWEST.COM	<u>UTILITY SERVICE NUMBERS</u> NAME: LEE'S SUMMIT PUBLIC WORKS PHONE: 816-969-1800 NAME: LEE'S SUMMIT WATER UTILITIES PHONE: 816-969-1900
<u>ENGINEER</u> OLSSON 1301 BURLINGTON ST. SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: STEPHEN SAYLOR, P.E. PHONE: 816.442.6061 EMAIL: SSAYLOR@OLSSON.COM	NAME: SPIRE PHONE: 314-342-0500 NAME: AT&T PHONE: 800-286-8313 NAME: EVERGY PHONE: 816-471-5275
<u>SURVEYOR</u> OLSSON 1301 BURLINGTON ST. SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JASON ROUDEBUSH PHONE: 816.361.1772 EMAIL: JROUDEBUSH@OLSSON.COM	NAME: SPECTRUM PHONE: 877-772-2253 NAME: GOOGLE FIBER PHONE: 877-454-6959

- ☐ NOT FOR CONSTRUCTION
- ☒ REVIEWED FOR CONSTRUCTION



EAGLE CREEK VILLAS FIRST PLAT STREET & STORM SEWER PLANS

SECTION 23, TOWNSHIP 47 N, RANGE 32 W.
IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



PROPERTY DESCRIPTION:

A TRACT OF LAND IN THE NORTHEAST ARTER OF SECTION 23 TOWNSHIP 47 NORTH, RANGE 32 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI BEING BOUNDED AND DESCRIBED BY OR UNDER THE DIRECT SUPERVISION OF JASON S ROUDEBUSH, P.L.S. 202014092 AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID NORTHEAST QUARTER, THENCE NORTH 02°46'08" EAST, ON THE EAST LINE OF SAID NORTHEAST QUARTER 1,323.83 FEET TO THE SOUTHEAST CORNER OF THE NORTH HALF OF SAID NORTHEAST QUARTER, ALSO BEING THE NORTHEAST CORNER OF EAGLE CREEK - FIFTH PLAT, A SUBDIVISION OF LAND IN SAID LEE'S SUMMIT RECORDED OCTOBER 9, 2001 AS INSTRUMENT NUMBER 2001100882127 OF JACKSON COUNTY, MISSOURI, THENCE NORTH 87°41'31" WEST, ON SAID NORTH LINE 51.77 FEET TO THE SOUTHWEST CORNER OF SAID FIFTH PLAT, THENCE SOUTH 87°41'31" WEST, ON THE SOUTH LINE OF SAID NORTH HALF OF SAID NORTHEAST QUARTER, ALSO BEING THE NORTH LINE OF SAID EAGLE CREEK - FIFTH PLAT, 51.77 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE NORTH 87°41'31" WEST ON SAID SOUTH LINE AND SAID NORTH LINE, 675.87 FEET TO THE NORTHWEST CORNER OF SAID EAGLE CREEK - FIFTH PLAT, ALSO BEING THE NORTHEAST CORNER OF EAGLE CREEK - SIXTH PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED OCTOBER 9, 2001 AS INSTRUMENT NUMBER 2001100882129 IN BOOK 70 AT PAGE 15 IN SAID OFFICE OF RECORDER OF DEEDS, JACKSON COUNTY, MISSOURI; THENCE NORTH 87°41'31" WEST ON SAID SOUTH LINE, ALSO BEING THE NORTH LINE OF SAID EAGLE CREEK - SIXTH PLAT, 704.45 FEET TO THE NORTHWEST CORNER OF SAID EAGLE CREEK - SIXTH PLAT, ALSO BEING THE EASTERLY LINE OF TRACT C OF EAGLE CREEK - SEVENTH PLAT, LOTS 230 THRU 282, INCLUSIVE, AND TRACT C, A SUBDIVISION OF LAND IN SAID LEE'S SUMMIT RECORDED APRIL 25, 2003 AS INSTRUMENT NUMBER 2003040500001 IN BOOK 70 AT PAGE 15 IN SAID OFFICE OF RECORDER OF DEEDS, JACKSON COUNTY, MISSOURI; THENCE NORTH 87°41'31" WEST ON SAID SOUTH LINE AND SAID EASTERLY LINE, 81.41 FEET, THENCE LEAVING SAID SOUTH LINE, NORTH 02°46'08" EAST, ON SAID EASTERLY LINE, 197.92 FEET TO THE NORTHEAST CORNER OF SAID TRACT C, ALSO BEING A POINT ON THE EXISTING SOUTHERLY RIGHT-OF-WAY LINE SW EAGLE VIEW DRIVE, AS ESTABLISHED BY SAID EAGLE CREEK - SEVENTH PLAT, LOTS 230 THRU 282, INCLUSIVE, AND TRACT C; THENCE EASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT HAVING AN INITIAL TANGENT BEARING OF SOUTH 86°54'35" EAST WITH A RADIUS OF 830.00 FEET, A CENTRAL ANGLE OF 29°39'14" AND AN ARC DISTANCE OF 429.57 FEET; THENCE NORTH 63°26'11" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 285.62 FEET; THENCE EASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED CURVE WITH A RADIUS OF 1,270.00 FEET, A CENTRAL ANGLE OF 30°39'22" AND AN ARC DISTANCE OF 618.00 FEET; THENCE SOUTH 88°30'39" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 195.10 FEET; THENCE LEAVING SAID SOUTHERLY RIGHT-OF-WAY LINE, SOUTH 26°46'29" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 259.61 FEET; THENCE SOUTH 02°31'58" WEST, 50.00 FEET, THENCE WESTERLY ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF NORTH 87°41'31" WEST WITH A RADIUS OF 1,025.00 FEET, A CENTRAL ANGLE OF 40°39'21" AND AN ARC DISTANCE OF 83.29 FEET; THENCE SOUTH 02°18'29" WEST, 123.38 FEET TO THE POINT OF BEGINNING, CONTAINING 669.406 SQUARE FEET OR 15.37 ACRES, MORE OR LESS.

BENCHMARK

BENCHMARK NO. 1
CHISELED SQUARE ON THE NORTHWEST CORNER OF 6' X 4' CURB INLET THAT IS ON THE SOUTH SIDE OF SW EAGLEVIEW DRIVE AND WEST OF SW BURNINGWOOD LANE, STRAIGHT SOUTH OF A 6' X 4' CURB INLET.
ELEVATION = 1002.10

SHEET LIST TABLE	
SHEET #	SHEET TITLE
C101	TITLE SHEET
C102	GENERAL NOTES
C103	GENERAL LAYOUT
C104	GRADING PLAN (FOR REFERENCE ONLY)
C105	GRADING PLAN (FOR REFERENCE ONLY)
C106	SWALE 1 PLAN & PROFILE
C107	SWALE 2 PLAN & PROFILE
C108	SWALE 3 PLAN & PROFILE
C109	SWALE 4 PLAN & PROFILE
C110	SWALE 4 PLAN & PROFILE CONT.
C111	ROAD PLAN & PROFILE (SW RAMBLING VINE ROAD)
C112	ROAD PLAN & PROFILE (SW RAMBLING VINE ROAD)
C113	ROAD PLAN & PROFILE (SW RAMBLING VINE ROAD)
C114	ROAD PLAN & PROFILE (SW PHEASANT TRAIL)
C115	ROAD PLAN & PROFILE (SW SUNCATCHER ROAD)
C116	ROAD PLAN & PROFILE (SW BURNINGWOOD LANE)
C117	TRAFFIC CONTROL PLAN
C118	INTERSECTION SITE DISTANCE PLAN
C119	INTERSECTION SITE DISTANCE PROFILES
C120	INTERSECTION SITE DISTANCE PROFILES
C121	SW RAMBLING VINE RD & SW EAGLE VIEW DR
C122	SW RAMBLING VINE RD AND SW PHEASANT TRAIL
C123	SW RAMBLING VINE RD & SW SUNCATCHER RD
C124	SW RAMBLING VINE RD & SW BURNINGWOOD LN
C125	SW SUNCATCHER RD & SW EAGLE VIEW DR
C126	SW BURNINGWOOD LN & SW EAGLE VIEW DR
C127	STORM SEWER PLAN & PROFILE (LINE 1)
C128	STORM SEWER PLAN & PROFILE (LINE 1)
C129	STORM SEWER PLAN & PROFILE (LINE 1)
C130	STORM SEWER PLAN & PROFILE (LINE 1)
C131	STORM SEWER PLAN & PROFILE (LINE 2)
C132	STORM SEWER PLAN & PROFILE (LINE 2 & 3)
C133	STORM SEWER PLAN & PROFILE (LINE 4)
C134	STORM SEWER PLAN & PROFILE (LINE 5 & 6)
C135	STORM SEWER PLAN & PROFILE (LINE 7 & 8)
C136	STORM SEWER PLAN & PROFILE (LINE 9)
C137	WATER QUALITY BASIN PLAN
C138	MASTER DRAINAGE PLAN
C139	DRAINAGE PLAN
C140	DRAINAGE TABLES (10-YEAR)
C141	DRAINAGE TABLES (100-YEAR)
C142	DETAIL SHEET
C143	DETAIL SHEET
C144	DETAIL SHEET

OLSSON HAS BEEN RETAINED TO PROVIDE AS-BUILT DRAWINGS FOR THIS PROJECT.

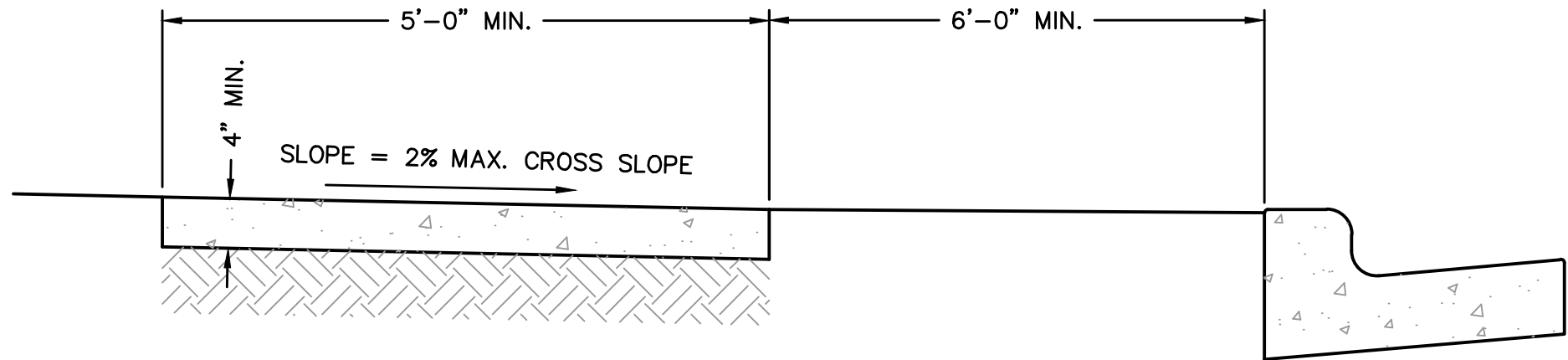
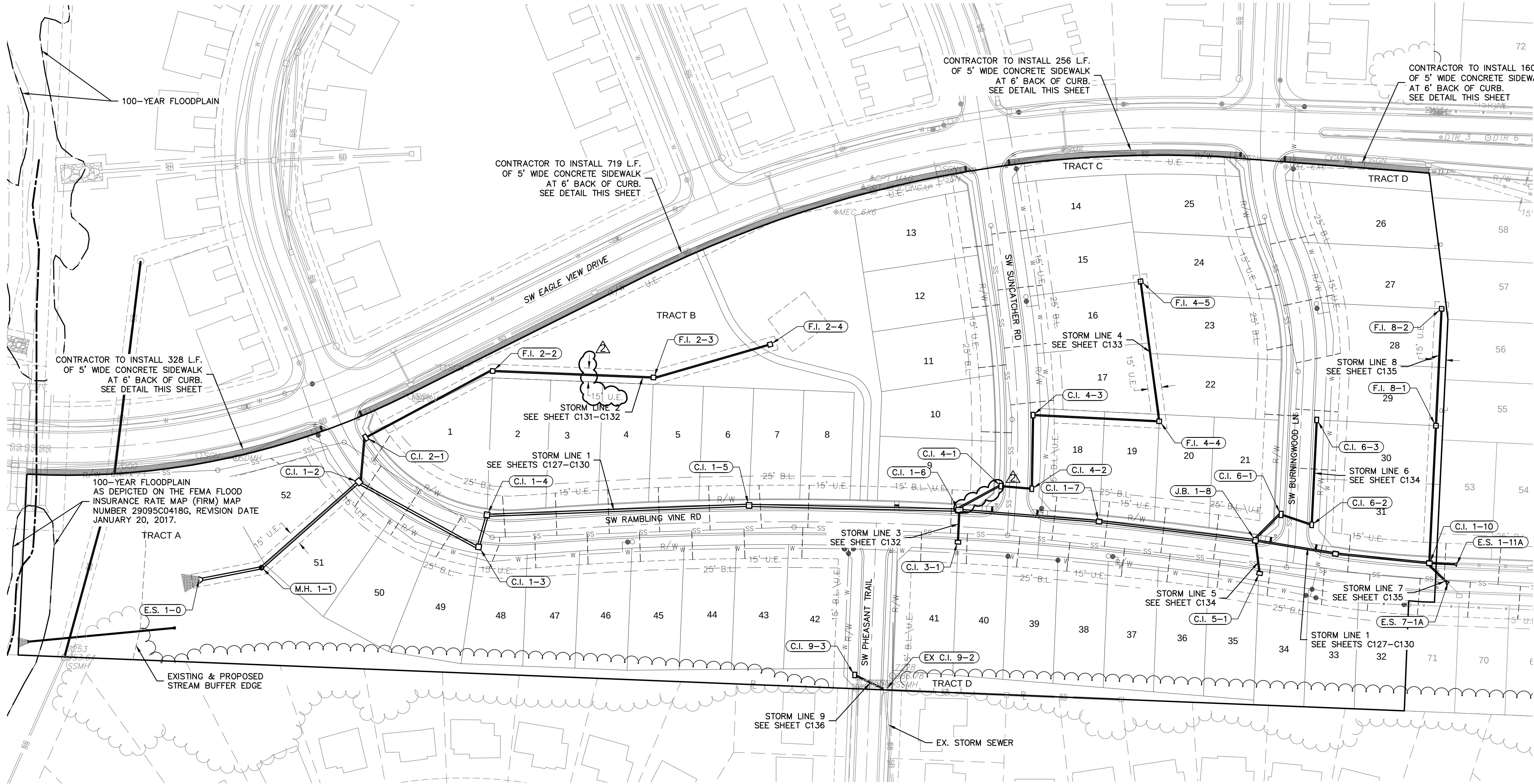

STEPHEN SAYLOR, P.E.
CIVIL ENGINEER
MO#2018021248

5/29/2024

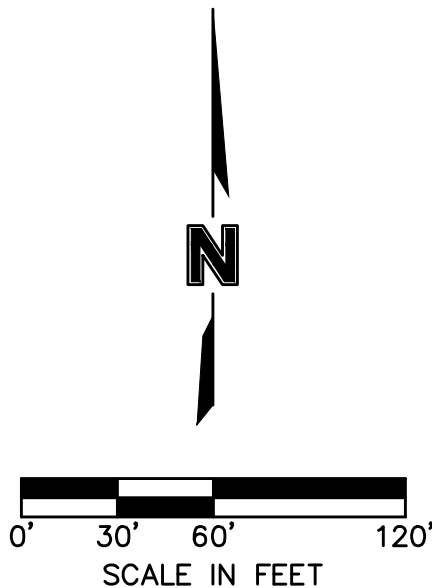
DATE

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DATE: May 29, 2024 1:12pm XREFS: C_PUTIL_A202467 C_XBASE_A202467



DETAIL 1: STANDARD CONCRETE WALK DETAIL
NOT TO SCALE



REVISIONS		
REV. NO.	DATE	REVISIONS DESCRIPTION
1	02/23/2024	REVISED PER CITY COMMENTS
2	04/02/2024	REVISED PER CITY COMMENTS

GENERAL LAYOUT STREET & STORM SEWER PLANS		2023
EAGLE CREEK VILLAS FIRST PLAT		
LEE'S SUMMIT, MISSOURI		

drawn by: _____ CW
checked by: _____ SS
approved by: _____ JS
QA/QC by: _____ JS
project no.: A20-2467
drawing no.: C_GEN01_A202467
date: 02/23/2024

LOT FILL INFORMATION			
LOT NUMBER	MAX DEPTH OF FILL (OVER 2' PLACED)	FILL PLACED ON EXISTING SLOPES > 5:1	PROPOSED SLOPES > 3:1
1			
2			
3			
4			
5		X	
6			
7			
8			
9			
10			
11			
12			
13	4.0	X	
14			
15			
16		X	
17	3.0	X	
18	3.0	X	
19	3.0	X	
20	3.0	X	
21	3.0	X	
22			
23		X	
24			
25			
26			
27			
28			
29			
30			
31			
32			
33		X	
34		X	
35	3.0	X	
36	3.0	X	
37	3.0	X	
38	7.0		
39	6.0		
40	6.0	X	
41	4.0	X	
42	3.0		
43	3.0		
44			
45			
46			
47			
48			
49			
50		X	
51	3.0	X	
52	3.0	X	

X Indicates condition applies to lot

GENERAL NOTES:

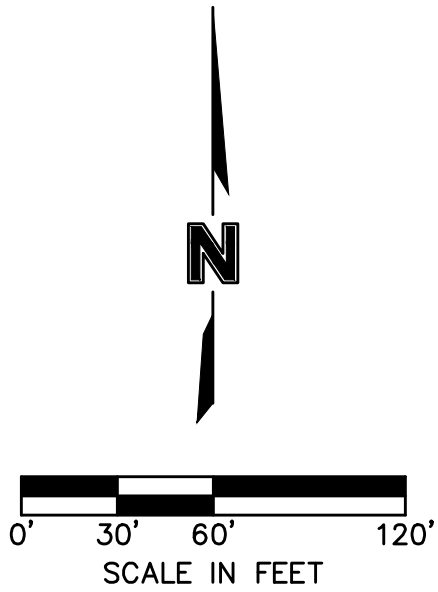
1. CONTRACTOR SHALL ADHERE TO THE "DESIGN AND CONSTRUCTION MANUAL" SECTION 2100 AS ADOPTED BY THE CITY OF LEE'S SUMMIT (LATEST EDITION), FOR EXCAVATION AND EMBANKMENT WORK WITHIN THE PROPOSED RIGHT-OF-WAY.
2. AREAS OF CONSTRUCTION SHALL BE STRIPPED OF ALL VEGETATION, ORGANIC MATTER AND TOPSOIL TO A DEPTH AS RECOMMENDED BY GEOTECHNICAL ENGINEER AND OR TESTING AGENCY. SOILS REMOVED DURING SITE STRIPPING SHOULD BE EVALUATED TO DETERMINE IF PORTIONS OF THE TOPSOIL STRATUM MAY BE UTILIZED AS STRUCTURAL FILL WITHIN PAVEMENT AREAS. ANY MATERIAL NOT DEEMED AS SUITABLE FILL MATERIAL BY THE GEOTECHNICAL ENGINEER AND OR TESTING AGENCY SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR AT HIS EXPENSE.
3. ALL EMBANKMENT OUTSIDE OF RIGHT-OF-WAY SHOULD BE PLACED IN CONTROLLED LIFTS HAVING A MAXIMUM LOOSE LIFT THICKNESS OF 8". EMBANKMENT SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR COMPACTION). MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN A RANGE OF -0 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT.

EARTHWORK QUANTITIES		
LOCATION	CUT (C.Y.)	FILL (C.Y.)
STREET	10,606	1,038
SWALE	1,743	393
SITE	67,079	40,131
TOTAL	79,428	41,562

EARTHWORK QUANTITIES NOTES:

1. EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
2. EARTHWORK QUANTITIES DO NOT TAKE INTO CONSIDERATION EXCAVATION, REMOVAL AND DISPOSAL OF MATERIAL DEEMED UNSUITABLE BY A GEOTECHNICAL ENGINEER. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND FOR REPLACING IT WITH SUITABLE MATERIAL.

LEGEND	
	EXISTING INDEX CONTOURS
	EXISTING INTERMEDIATE CONTOURS
	PROPOSED INDEX CONTOURS
	PROPOSED INTERMEDIATE CONTOURS



Olsson - Civil Engineering
Missouri Certificate of Authority #001592
1301 Burlington Street
North Kansas City, MO 64116
TEL 816.361.1177
www.olson.com

5/29/2024

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

1

2

3

4

REVISED PER CITY COMMENTS

REVISED PER CITY COMMENTS

GRADING PLAN (FOR REFERENCE ONLY)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: _____

checked by: _____

approved by: _____

QA/QC by: _____

project no.: A20-2467

drawing no.: C_GRD01_A202467

date: 02/23/2024

SHEET

C104

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LOT FILL INFORMATION			
LOT NUMBER	MAX DEPTH OF FILL (OVER 2' PLACED)	FILL PLACED ON EXISTING SLOPES > 5:1	PROPOSED SLOPES > 3:1
53			
54			
55			
56			
57		X	
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73	8.0	X	
74	11.0		
75	12.0		
76	12.0		
77	11.0		
78	11.0		
79	11.0		
80	4.0	X	
81		X	
82	4.0		
83	5.0	X	
84		X	
85		X	
86	4.0		
87	5.0		
88	3.0	X	
89	4.0	X	
90	7.0	X	
91	8.0	X	
92	8.0	X	
93	7.0		
94	7.0		
95	7.0		
96	6.0	X	
X Indicates condition applies to lot			

GENERAL NOTES:

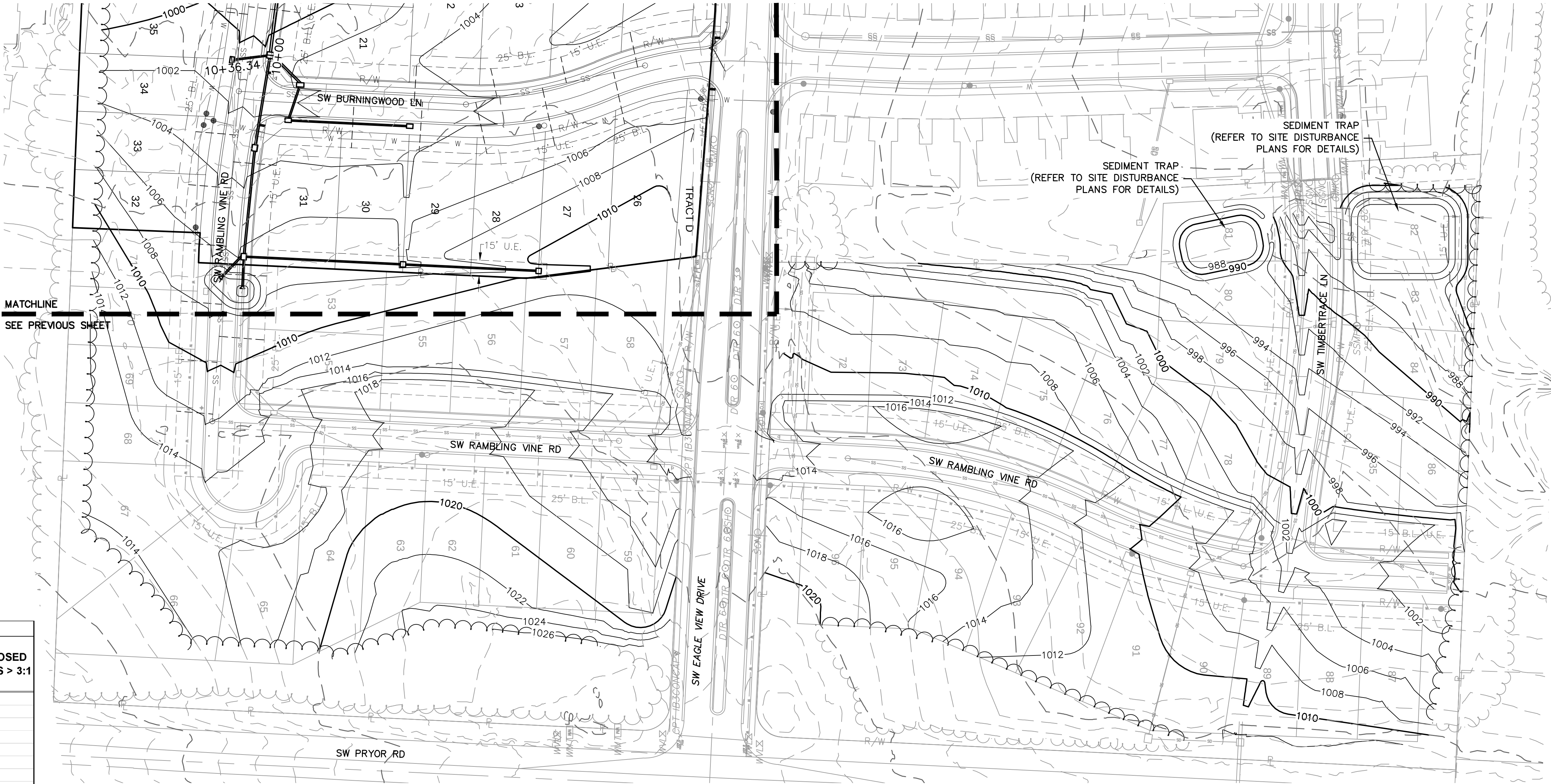
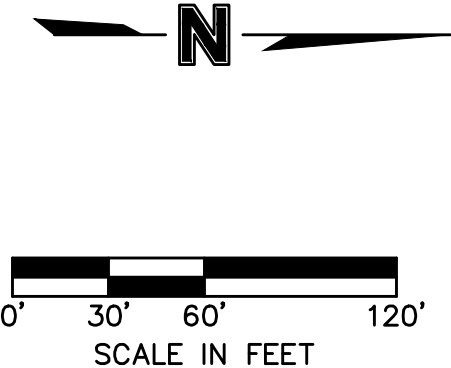
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LEGEND	
-100-	EXISTING INDEX CONTOURS
-100-	EXISTING INTERMEDIATE CONTOURS
100	PROPOSED INDEX CONTOURS
100	PROPOSED INTERMEDIATE CONTOURS



GRADING PLAN (FOR REFERENCE ONLY)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: CWR
checked by: SS
approved by: JS
QA/QC by: JS
project no.: A20-2467
drawing no.: C_GRD01_A202467
date: 02/23/2024



REVISIONS		BY
REV. NO.	REVISIONS DESCRIPTION	DATE

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Missouri Certificate of Authority #001592
1301 Burlington Street
North Kansas City, MO 64116
TEL 816.361.1177
www.olsson.com

67-A\40-Design\AutoCAD\Final Plans\Sheets\NCV\Street & Storm\C_SWL01_A202467.dwg
XREFS: C_PUTIL_A202467 C_XBASE_A202467 C_FBASE_A202467 C_PBASE_A202467 C_PBND
USER: smars



PG. VARIES*
VARIES L

PG. 0.00
2.50' L

1'
3'

PG. 0.00
2.50' R

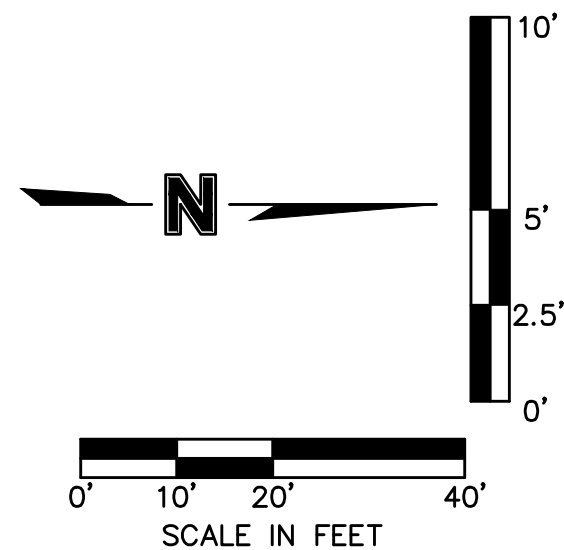
PG. VARIES*
VARIES R

N.T.S.

SWALE TYPICAL SECTION A-A, B-B & C-C

*NOTE: SEE TABLE FOR SWALE DEPTH

1. CONTRACTOR SHALL CONSTRUCT SWALES WITH MINIMUM SLOPE, WIDTH AND DEPTH AS SHOWN IN THE SWALE DESIGN TABLES.
2. AS-BUILT SURVEY IS REQUIRED/APPROVED BY CITY FOR ALL SWALES AND PRIOR TO APPROVAL FOR ANY BUILDING FOUNDATION PERMIT. CONTRACTOR SHALL BE REQUIRED TO REGRADE SWALES AT CONTRACTOR'S EXPENSE IF ABOVE REQUIREMENTS ARE NOT MET.

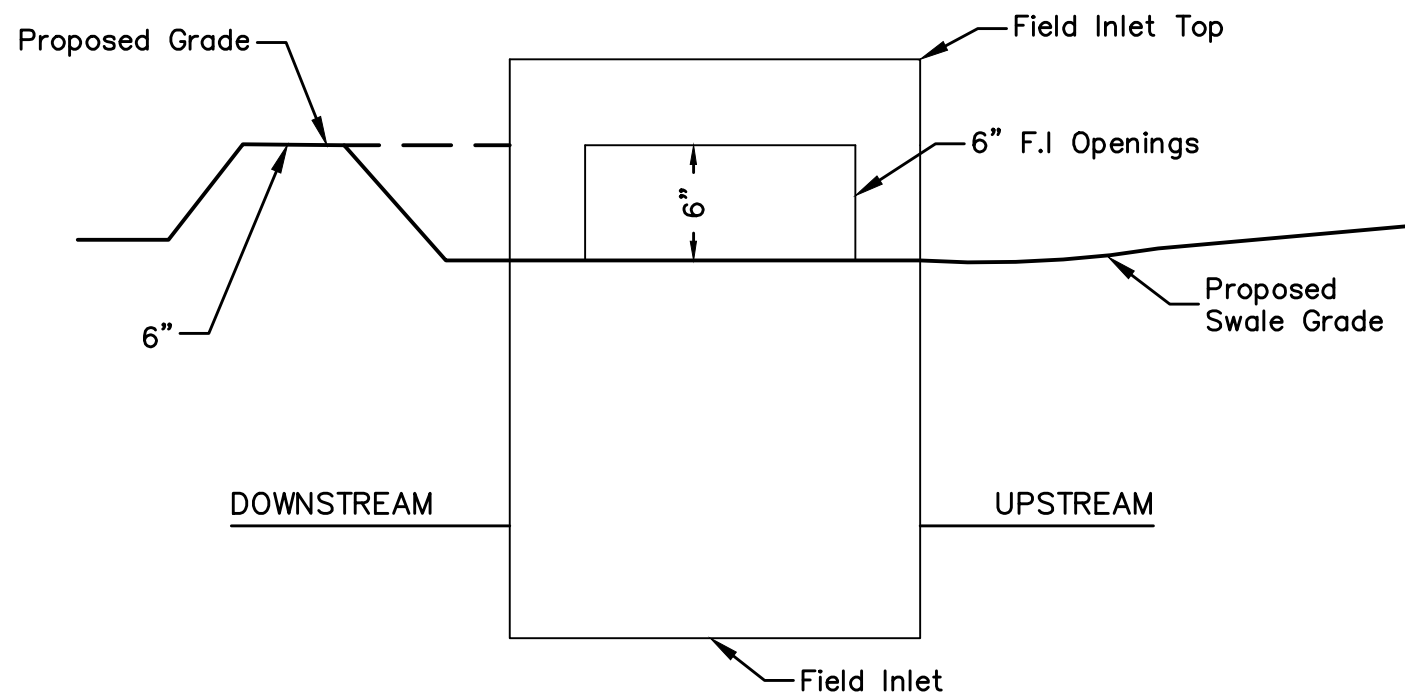


STATE OF MISSOURI
 ★ ★
 STEPHEN M.
 SAYLOR
 NUMBER
 PE-2018021248
 PROFESSIONAL ENGINEER

SWALE 1 PLAN & PROFILE STREET & STORM SEWER PLANS	2023
EAGLE CREEK VILLAS FIRST PLAT	
EE'S SUMMIT MISSISSIPPI	

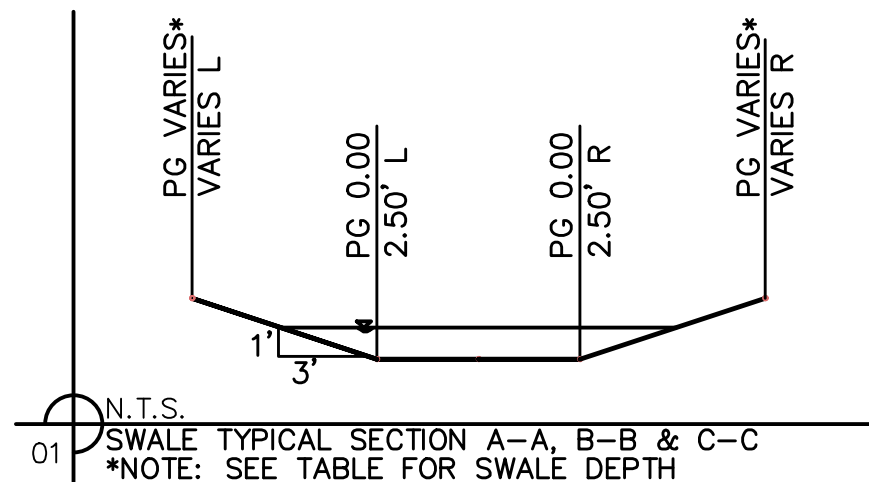
SHEET
C106

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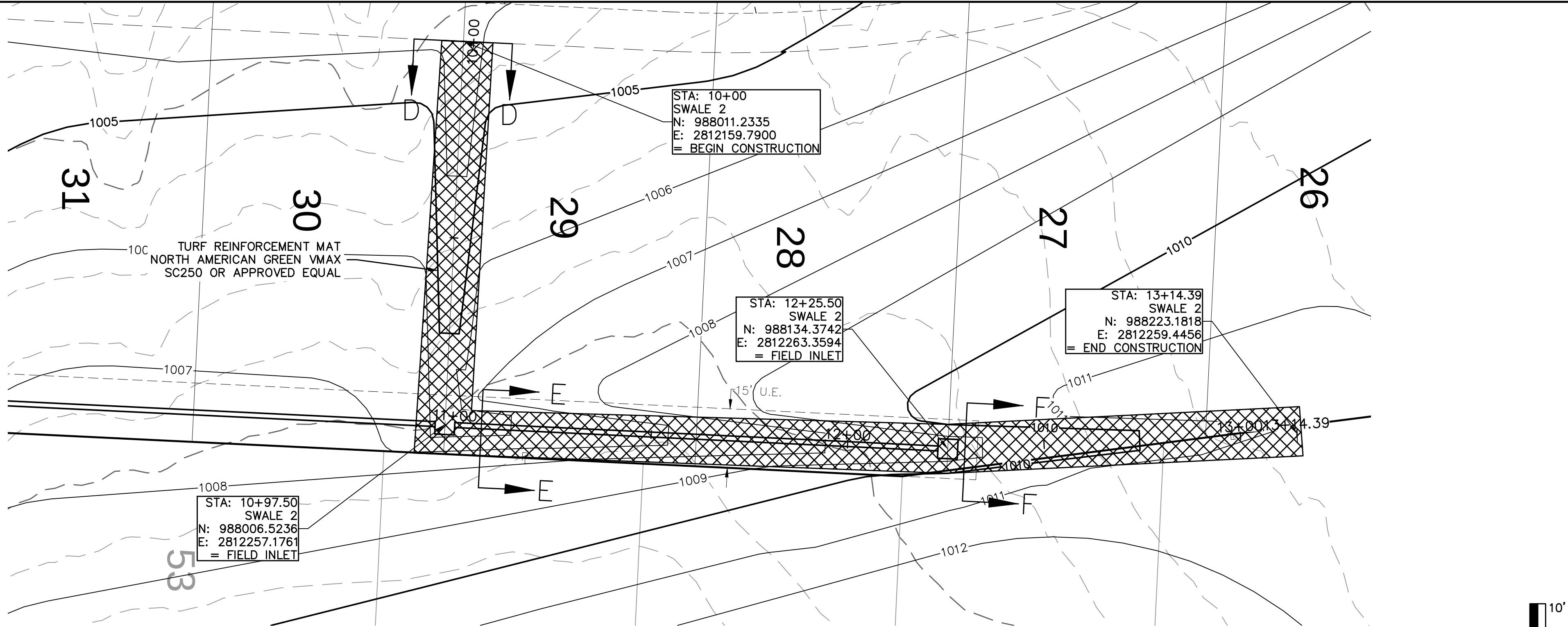
NOTE: INCLUDE SUMP PER ABOVE DETAIL WHERE FIELD INLETS ARE LOCATED WITHIN SWALES.

SUMP DETAIL
N.T.S.

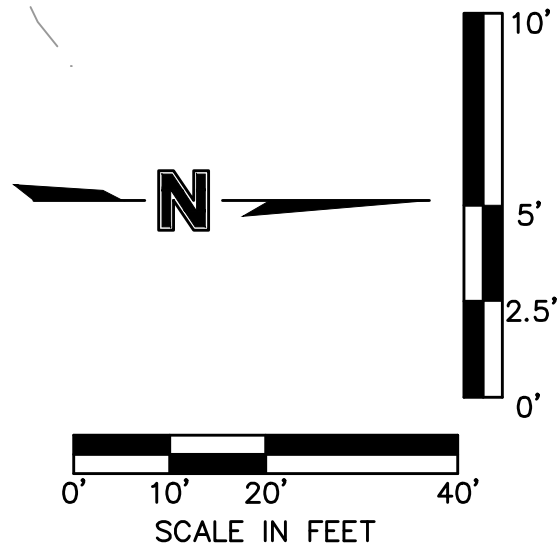


SWALE GRADING NOTES:

1. CONTRACTOR SHALL CONSTRUCT SWALES WITH MINIMUM SLOPE, WIDTH AND DEPTH AS SHOWN IN THE SWALE DESIGN TABLES.
2. AS-BUILT SURVEY IS REQUIRED/APPROVED BY CITY FOR ALL SWALES AND PRIOR TO APPROVAL FOR ANY BUILDING FOUNDATION PERMIT. CONTRACTOR SHALL BE REQUIRED TO REGRADE SWALES AT CONTRACTOR'S EXPENSE IF ABOVE REQUIREMENTS ARE NOT MET.



Swale Design Table (100 Year Return Frequency)														
Section Data							Flow Data							
SECTION	Mannings Coefficient	Channel Slope (%)	Swale Depth (ft)	Left Side Slope (H:V)	Right Side Slope (H:V)	Bottom Width (ft)	Discharge (cfs)	Water Depth (ft)	Flow Area (ft ²)	Velocity (ft/sec)	Wetted Perimeter (ft)	Top Width (ft)	Specific Energy (ft)	Shear Stress (lbs/ft ²)
D-D	0.03	2.50%	1.10	3:1	3:1	5.00	0.72	0.10	0.53	1.36	5.63	5.60	0.13	0.15
E-E	0.03	2.50%	1.19	3:1	3:1	5.00	2.50	0.19	1.09	2.36	6.20	6.14	0.28	0.27
F-F	0.03	2.50%	1.13	3:1	3:1	5.00	1.18	0.13	0.70	1.68	5.82	5.78	0.17	0.19



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North Kansas City, MO 64116
TEL 816.361.1177
www.olsson.com

STATE OF MISSOURI
STEPHEN M. SAYLOR
NUMBER
PE-2018021248
5/29/2024

REVISIONS

SWALE 2 PLAN & PROFILE
STREET & STORM SEWER PLANS
EAGLE CREEK VILLAS
FIRST PLAT
LEE'S SUMMIT, MISSOURI

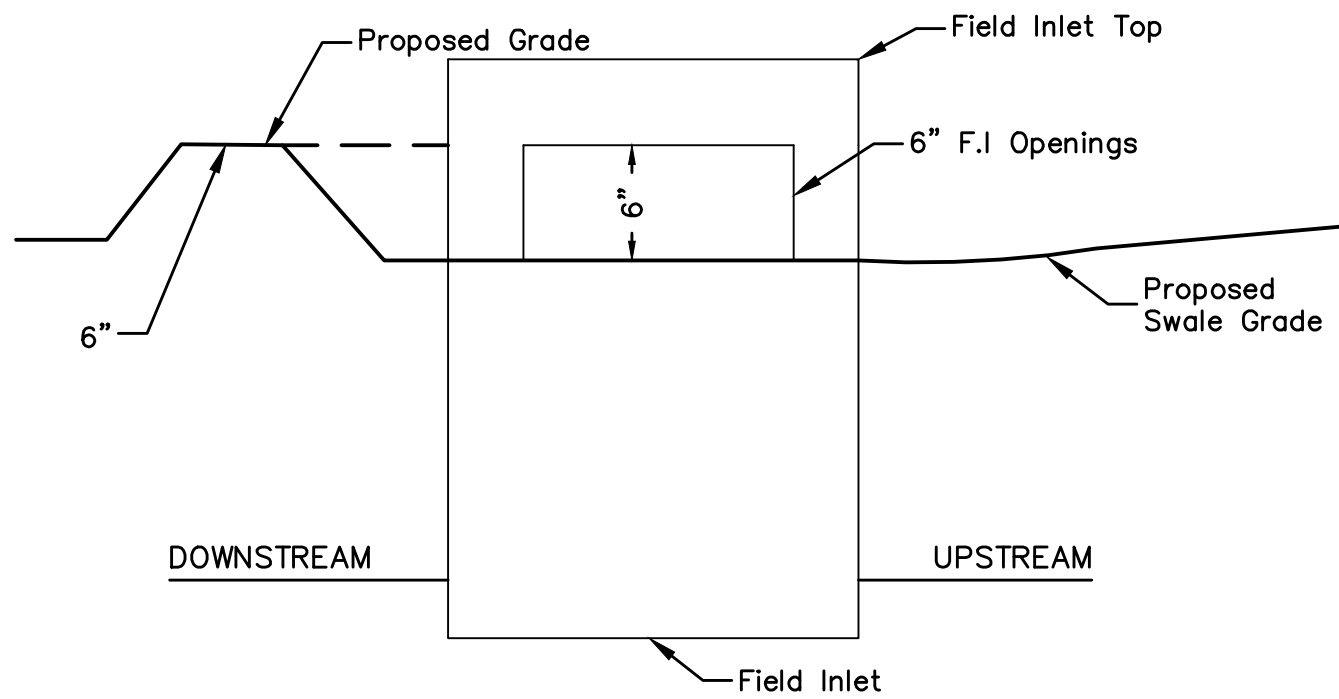
2023

drawn by: _____ CJW
checked by: _____ JS
approved by: _____ JS
QA/QC by: _____ JS
project no.: A20-2467
drawing no.: C_SWL01_A202467
date: 02/23/2024

SHEET
C107

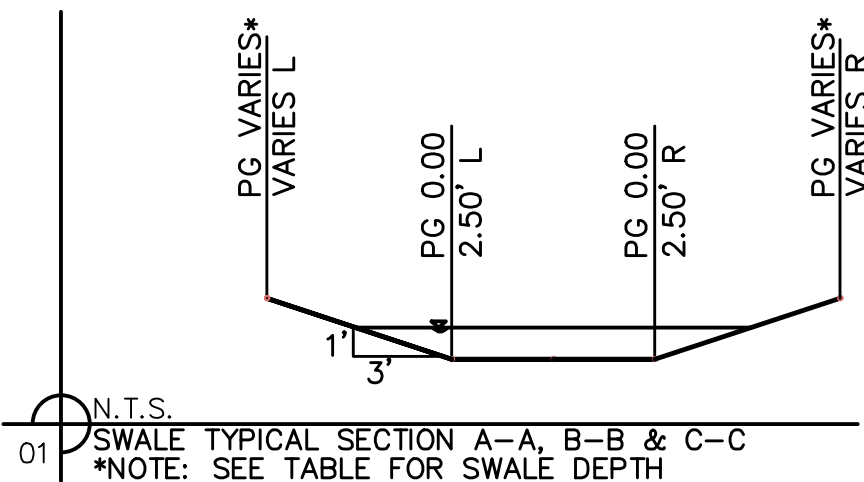
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USER: smarsh
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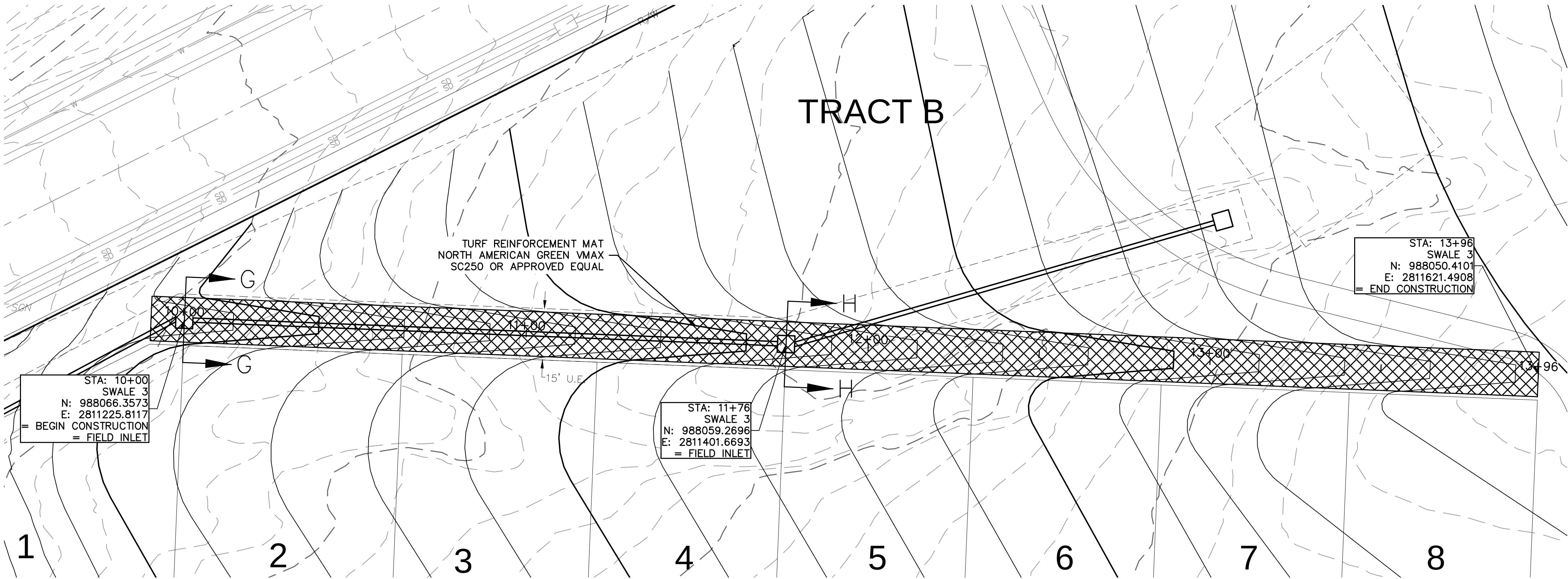
NOTE: INCLUDE SUMP PER ABOVE DETAIL WHERE FIELD INLETS ARE LOCATED WITHIN SWALES.

SUMP DETAIL
N.T.S.

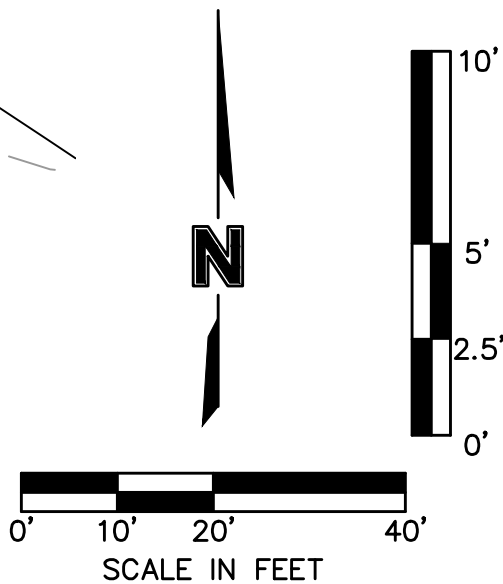


SWALE GRADING NOTES:

1. CONTRACTOR SHALL CONSTRUCT SWALES WITH MINIMUM SLOPE, WIDTH AND DEPTH AS SHOWN IN THE SWALE DESIGN TABLES.
2. AS-BUILT SURVEY IS REQUIRED/APPROVED BY CITY FOR ALL SWALES AND PRIOR TO APPROVAL FOR ANY BUILDING FOUNDATION PERMIT. CONTRACTOR SHALL BE REQUIRED TO REGRADE SWALES AT CONTRACTOR'S EXPENSE IF ABOVE REQUIREMENTS ARE NOT MET.



Swale Design Table (100 Year Return Frequency)														
Section Data							Flow Data							
SECTION	Mannings Coefficient	Channel Slope (%)	Swale Depth (ft)	Left Side Slope (H:V)	Right Side Slope (H:V)	Bottom Width (ft)	Discharge (cfs)	Water Depth (ft)	Flow Area (ft ²)	Velocity (ft/sec)	Wetted Perimeter (ft)	Top Width (ft)	Specific Energy (ft)	Shear Stress (lbs/ft ²)
G-G	0.03	4.00%	1.19	3:1	3:1	5.00	3.09	0.19	1.06	2.92	6.20	6.14	0.32	0.43
H-H	0.03	4.00%	1.16	3:1	3:1	5.00	2.30	0.16	0.88	2.62	6.01	5.96	0.27	0.36



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STATE OF MISSOURI
STEPHEN M. SAYLOR
NUMBER
PE-2018021248
5/29/2024

REVISIONS

SWALE 3 PLAN & PROFILE
STREET & STORM SEWER PLANS
EAGLE CREEK VILLAS
FIRST PLAT
LEE'S SUMMIT, MISSOURI

2023

drawn by: _____
checked by: _____
approved by: _____
QA/QC by: _____
project no.: A20-2467
drawing no.: C_SWL01_A202467
date: 02/23/2024

drawn by: _____
checked by: _____
approved by: _____
QA/QC by: _____
project no.: _____
drawing no.: _____
date: _____

SHEET
C108

67-A\40-Design\AutoCAD\Final Plans\Sheets\GNCV\Street & Storm\C_SWL01_A202467.dwg USER: smارش
C_PBDND
C_PBASE_A202467
C_XBASE_A202467
C_XREFS: C_PUTIL_A202467



PG VARIES*
VARIES L

PG 0.00
2.50' L

1'
3'

PG 0.00
2.50' R

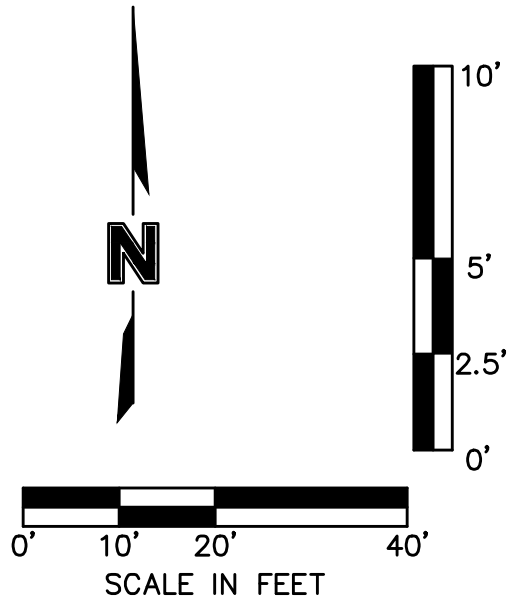
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VARIES R

N.T.S.

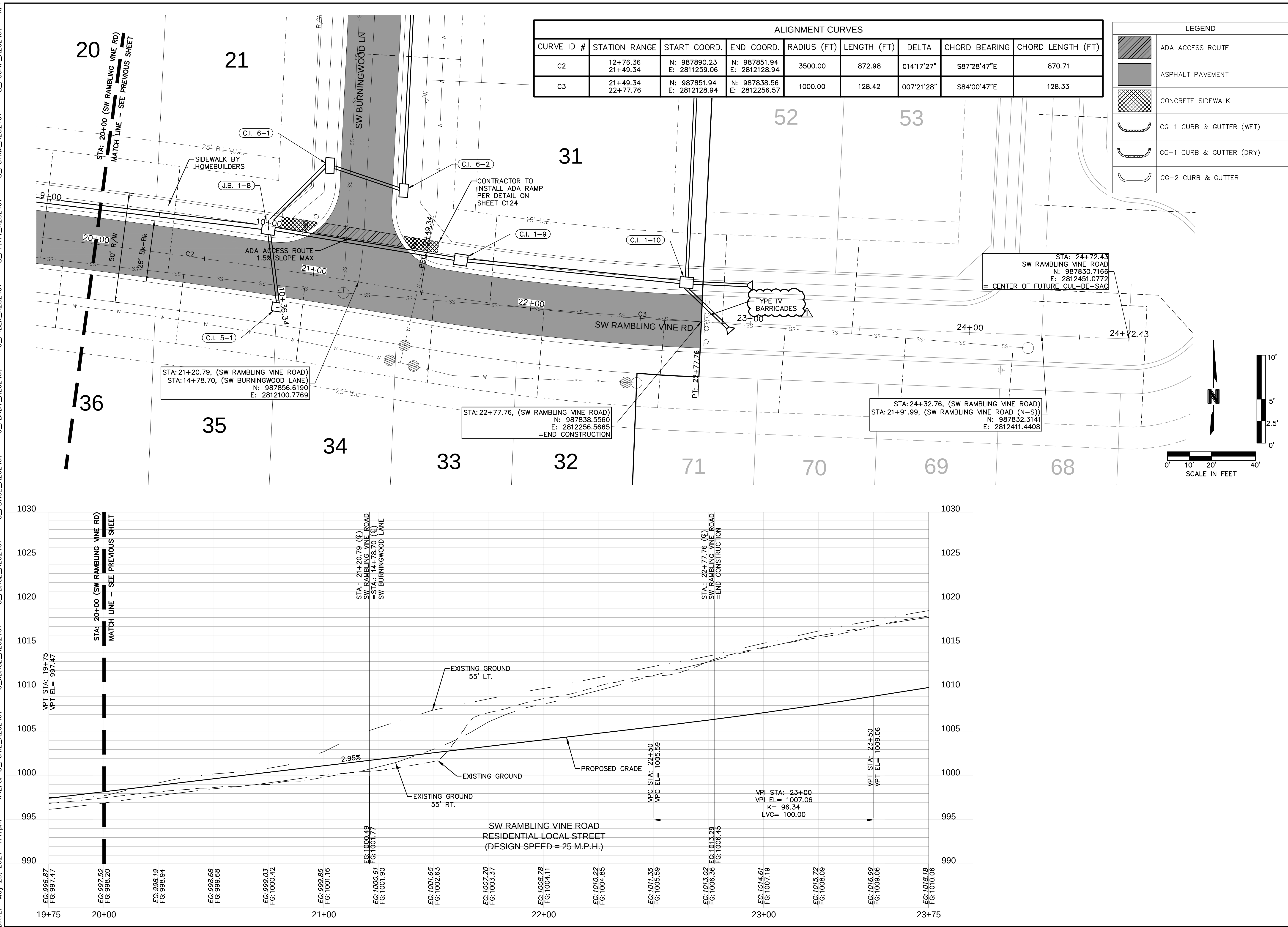
01 SWALE TYPICAL SECTION A-A, B-B & C-C

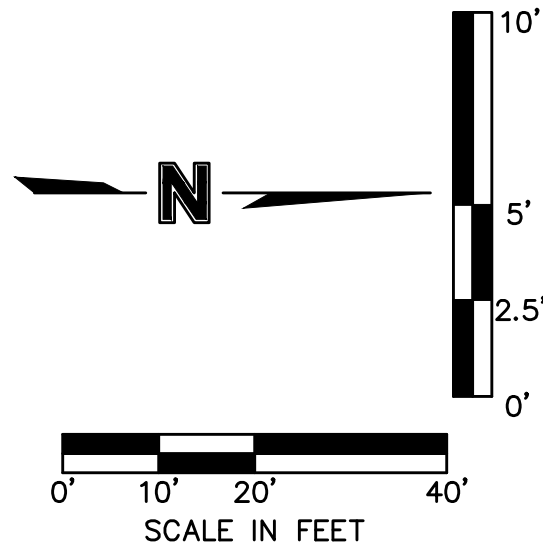
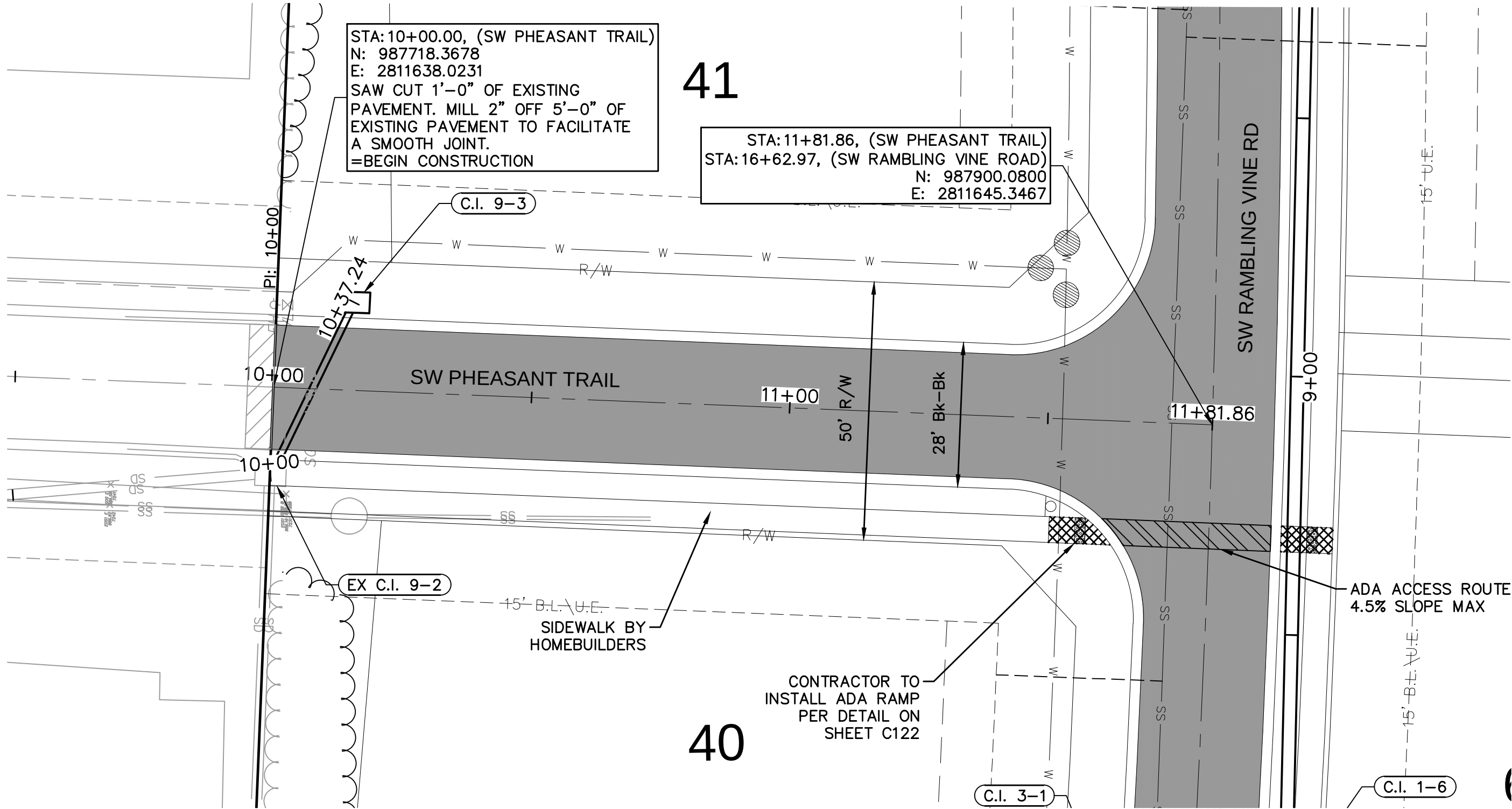
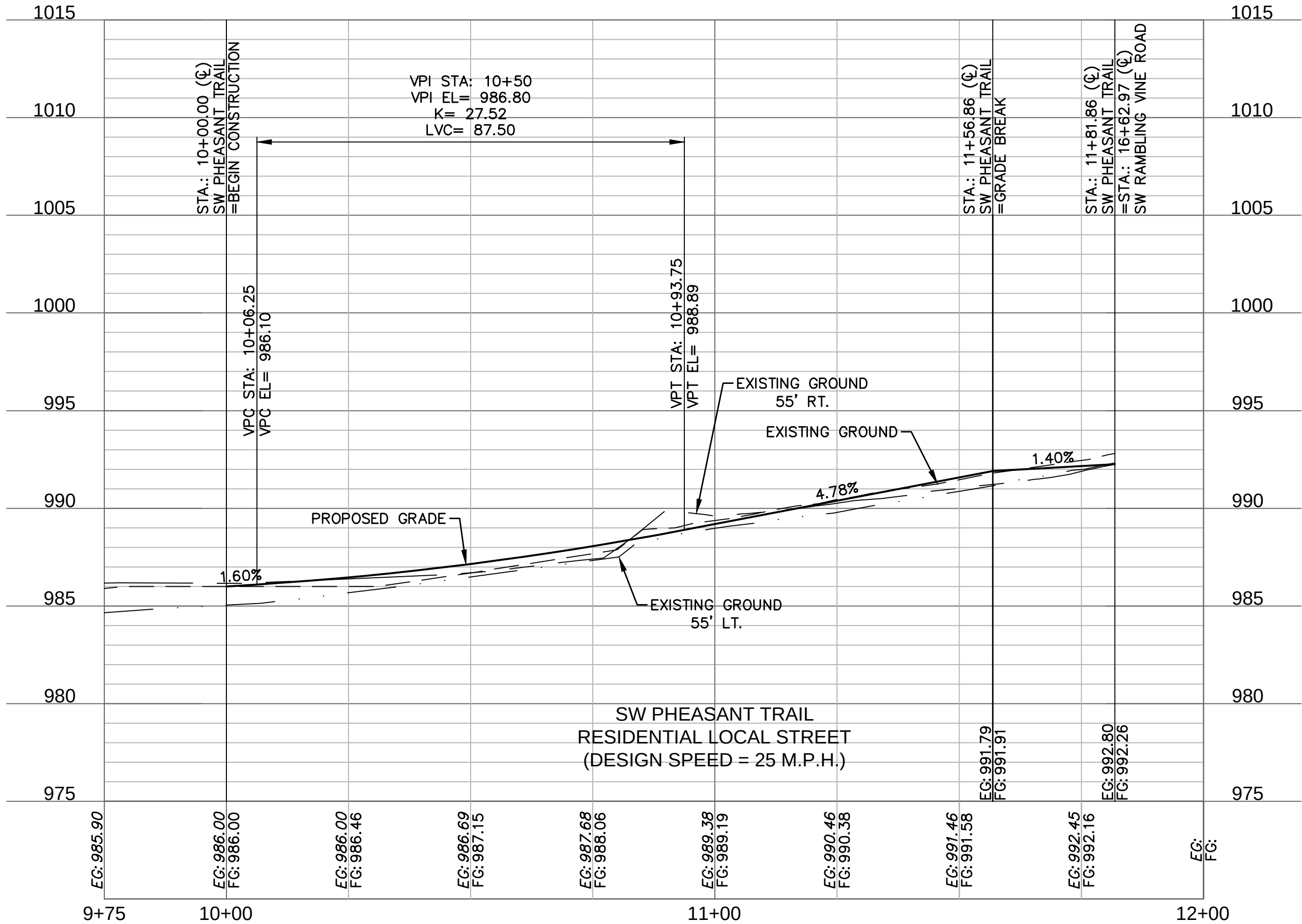
*NOTE: SEE TABLE FOR SWALE DEPTH

1. CONTRACTOR SHALL CONSTRUCT SWALES WITH MINIMUM SLOPE, WIDTH AND DEPTH AS SHOWN IN THE SWALE DESIGN TABLES.
2. AS-BUILT SURVEY IS REQUIRED/APPROVED BY CITY FOR ALL SWALES AND PRIOR TO APPROVAL FOR ANY BUILDING FOUNDATION PERMIT. CONTRACTOR SHALL BE REQUIRED TO REGRADE SWALES AT CONTRACTOR'S EXPENSE IF ABOVE REQUIREMENTS ARE NOT MET.



MATCHLINE 13+00 (SWALE 4)
SEE NEXT SHEET





LEGEND	
	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-1 CURB & GUTTER (WET)
	CG-1 CURB & GUTTER (DRY)
	CG-2 CURB & GUTTER

ROAD PLAN & PROFILE (SW PHEASANT TRAIL)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: _____
checked by: _____
approved by: _____
QA/QC by: _____
project no.: A20-2467
drawing no.: C_RPP02_A202467
date: 02/23/2024

drawn by: _____
checked by: _____
approved by: _____
QA/QC by: _____
project no.: A20-2467
drawing no.: C_RPP02_A202467
date: 02/23/2024

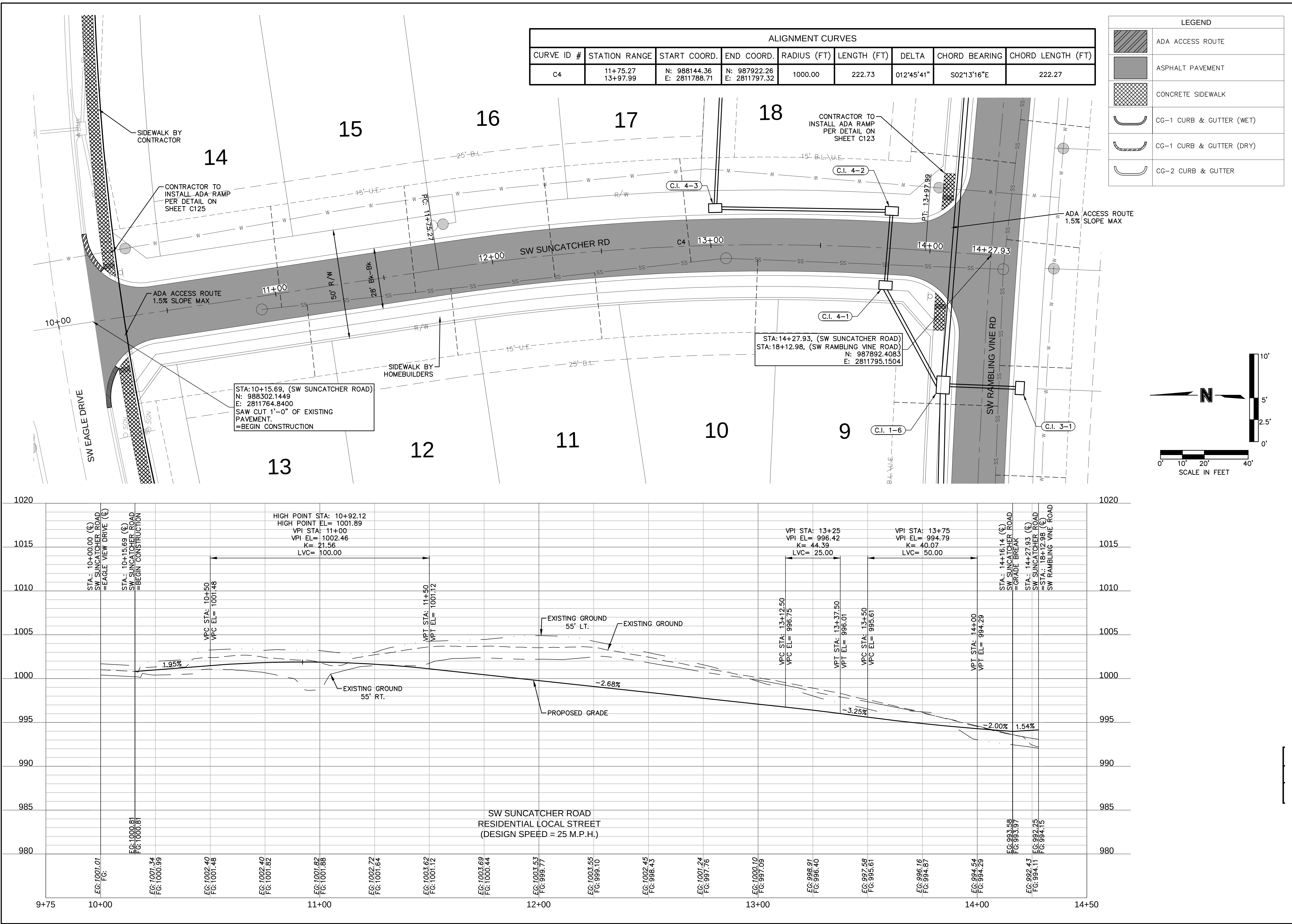
STATE OF MISSOURI
STEPHEN M. SAYTOR
NUMBER
PE-2018021248
5/29/2024

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SHEET
C114

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USER: smorsh



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STEPHEN M. SAYLOR
NUMBER
PE-2018021248
5/29/2024

PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

2023

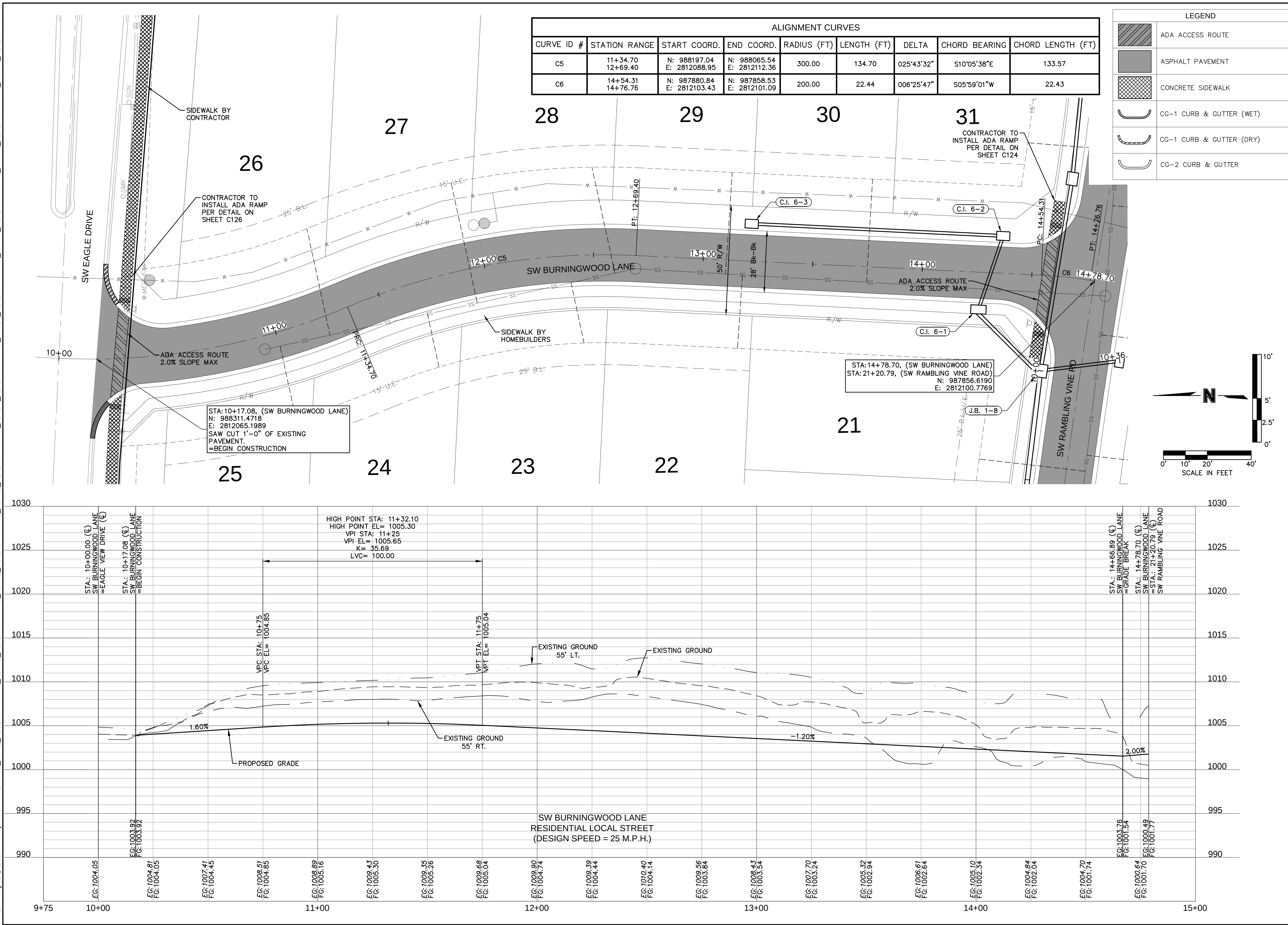
ROAD PLAN & PROFILE (SW SUNCATCHER ROAD)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

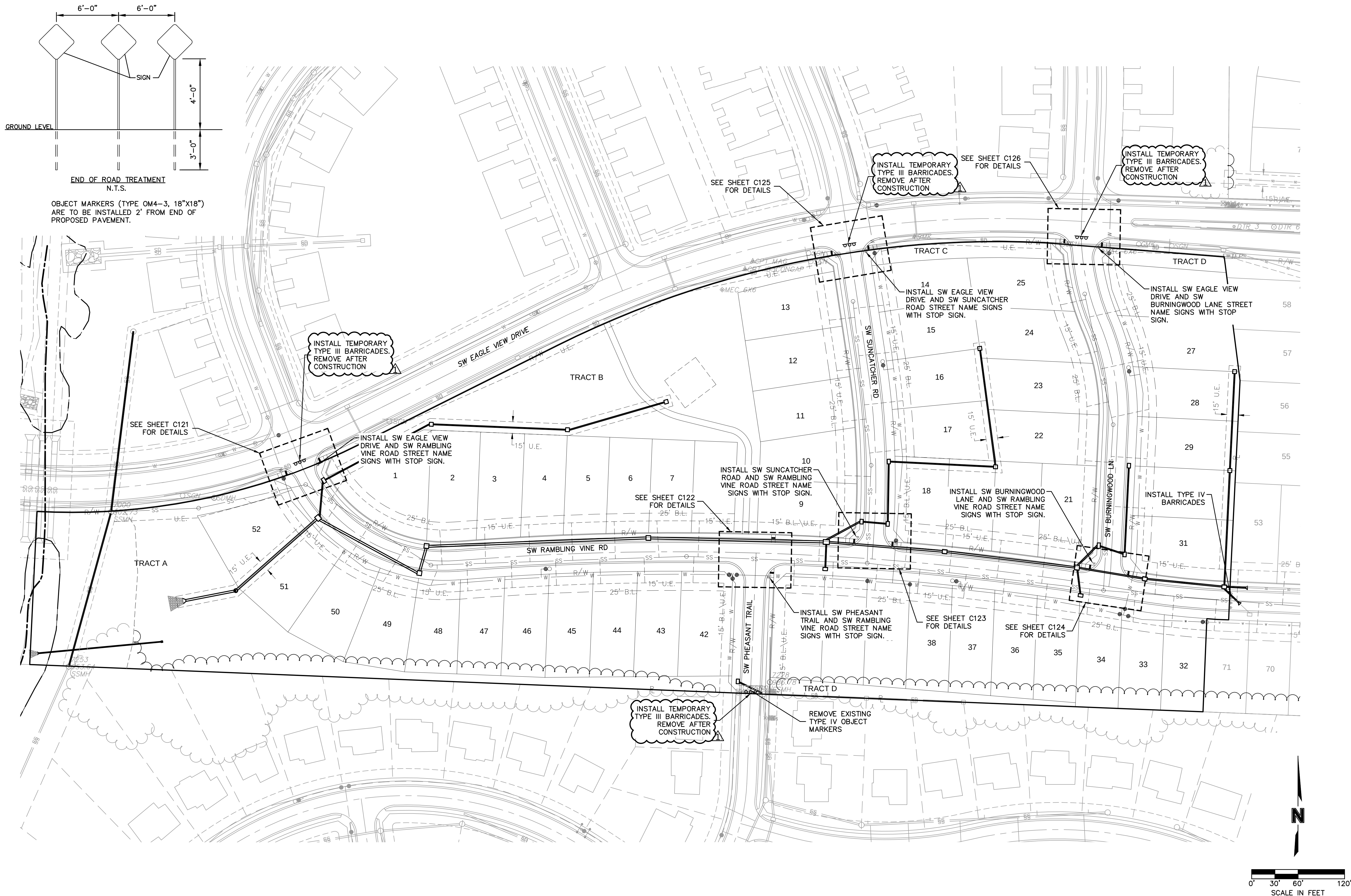
LEE'S SUMMIT, MISSOURI

drawn by: CJK
checked by: SS
approved by: JS
QA/QC by: JS
project no.: A20-2467
drawing no.: C_RPP02_A202467
date: 02/23/2024

SHEET
C115



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USER: smarsh



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STATE OF MISSOURI
STEPHEN M. SAYLOR
NUMBER
PE-2018021248
5/29/2024

REVISIONS		
REV. NO.	DATE	REVISIONS DESCRIPTION
1	02/23/2024	REVISED PER CITY COMMENTS

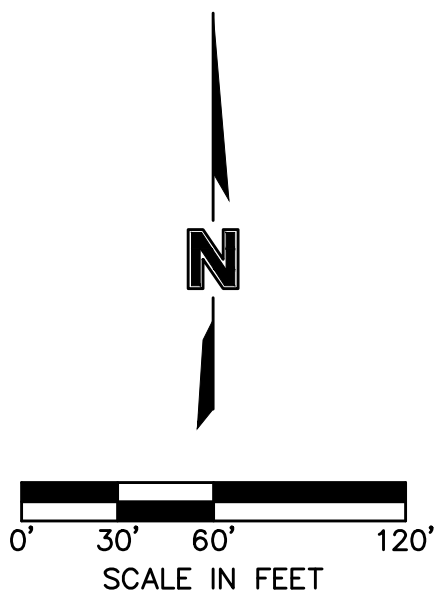
TRAFFIC CONTROL PLAN
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

drawn by: CW
checked by: SS
approved by: JS
QA/QC by: JS
project no.: A20-2467
drawing no.: C TCP01 A202467
date: 02/23/2024

SHEET
C117

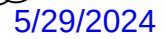
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EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

SHEET
C118

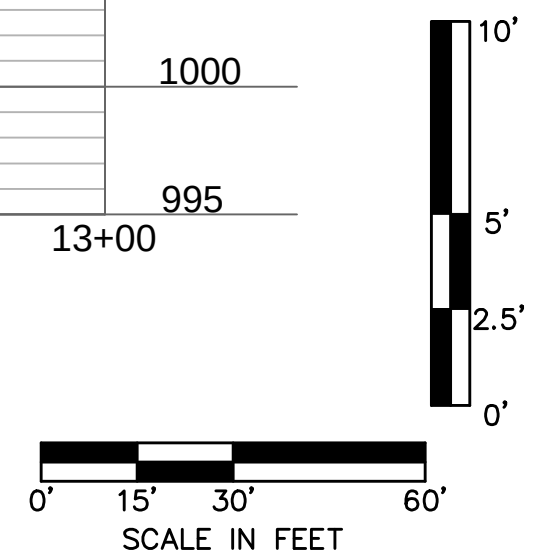
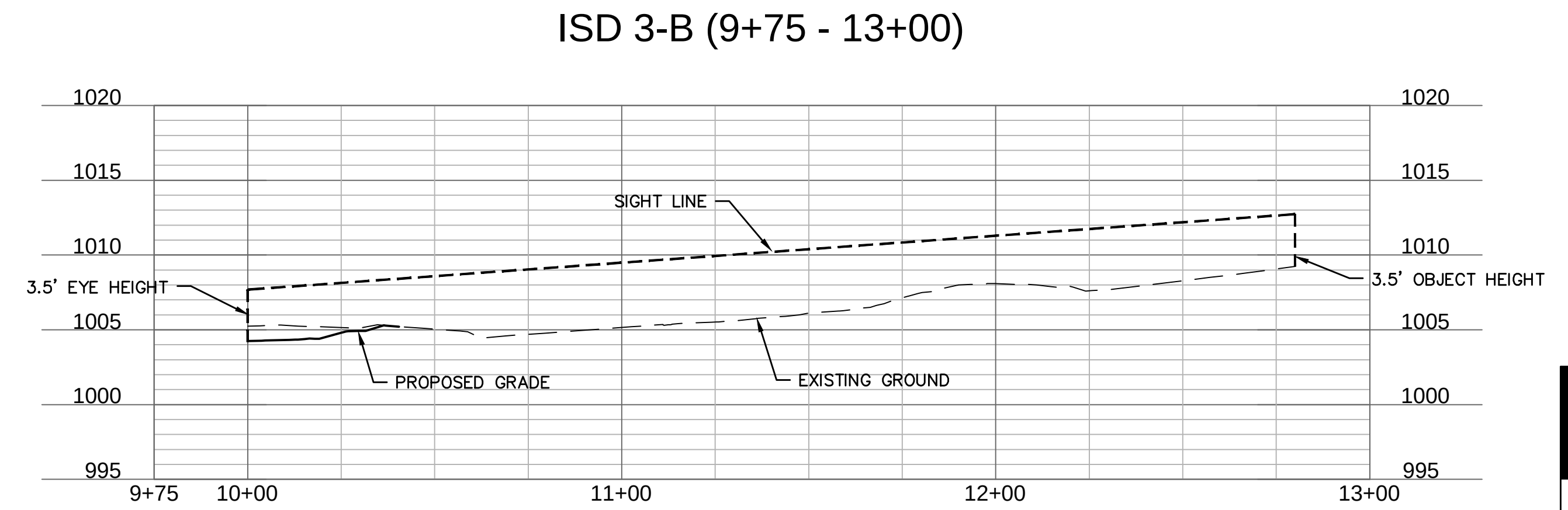
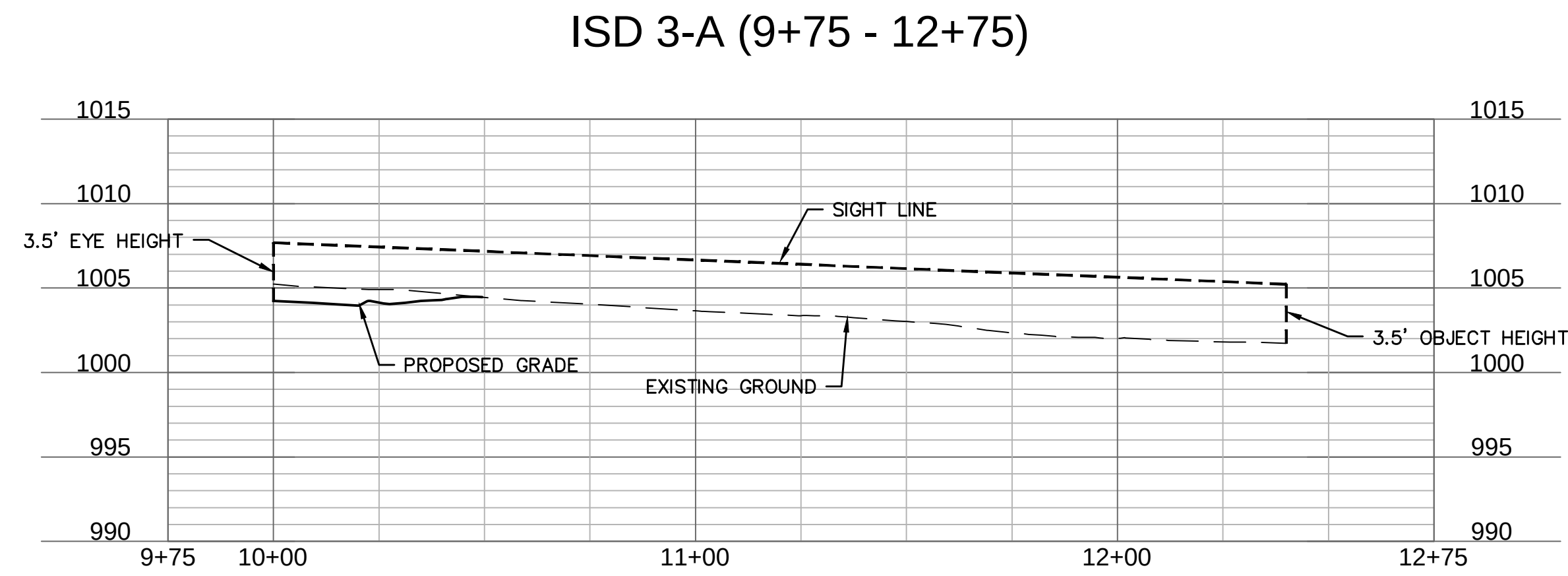
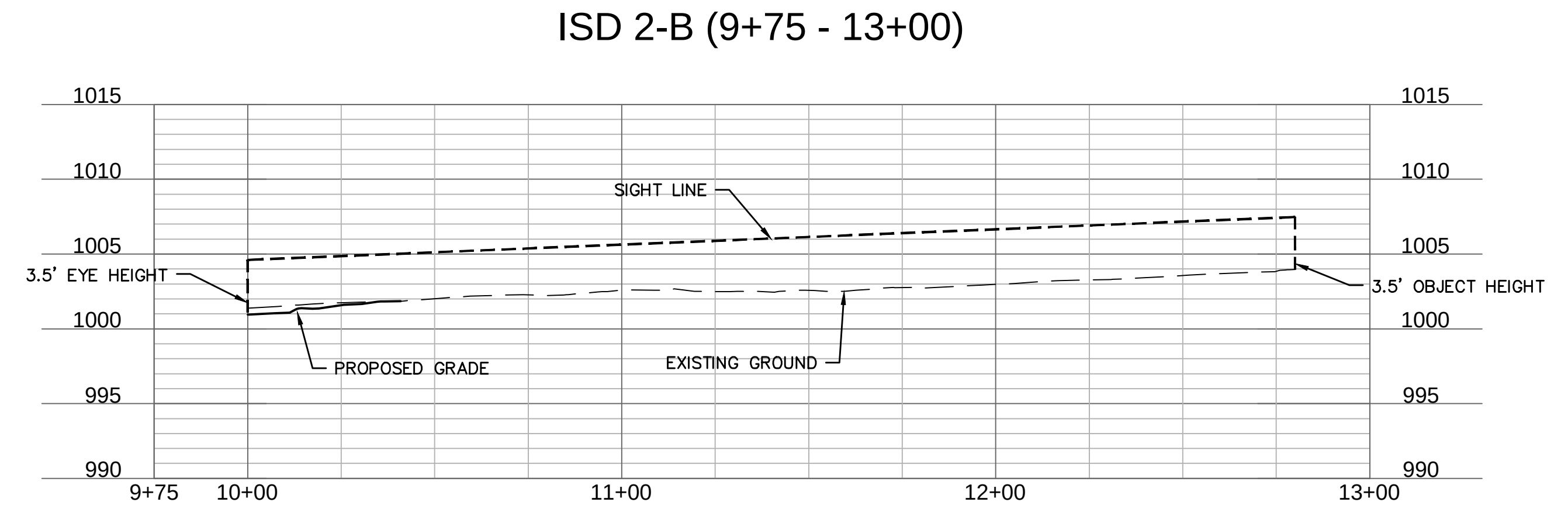
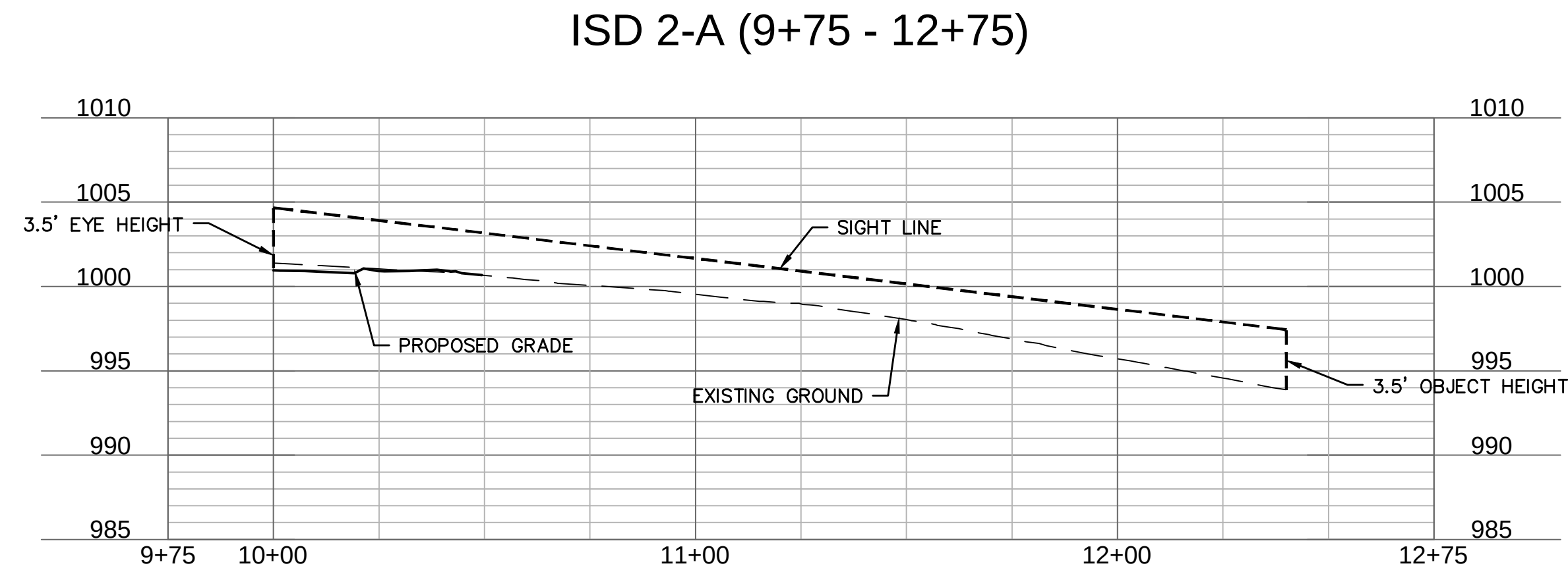
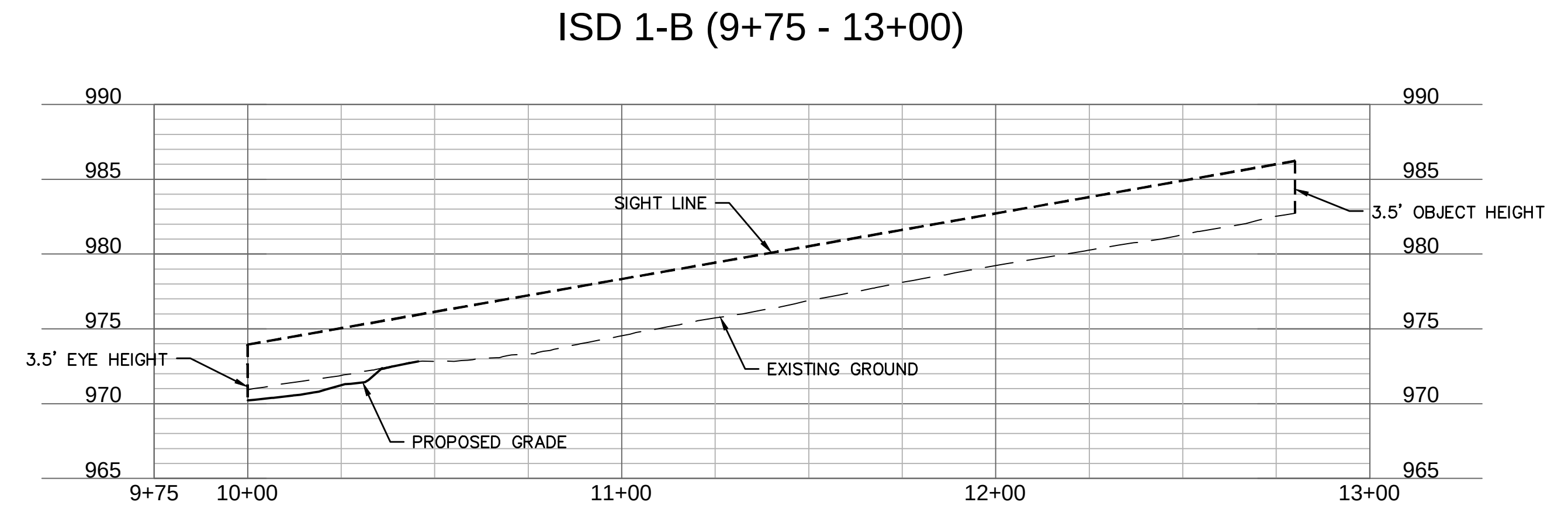
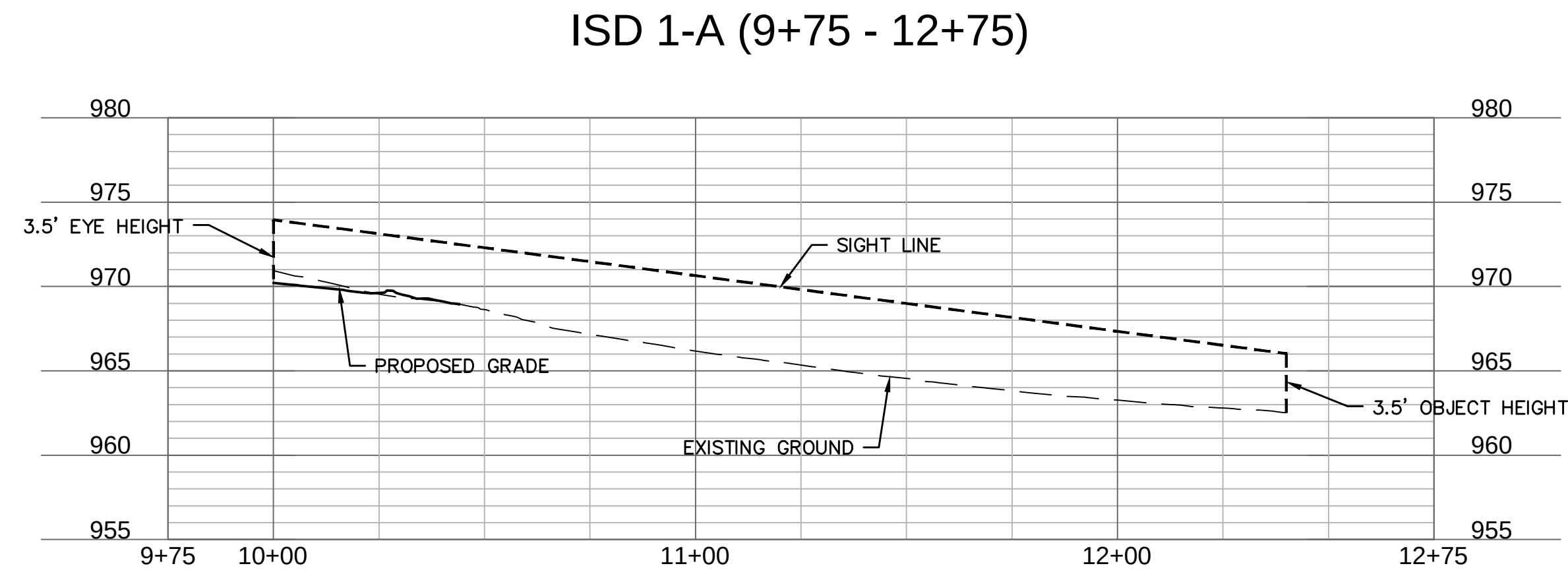
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INTERSECTION SITE DISTANCE PROFILES STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI	2023
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Drawn by: _____ CW
 Checked by: _____ SS
 Approved by: _____ JS
 A/QC by: _____ JS
 Project no.: _____ A20-2467
 Drawing no.: C TCP02 A202467
 Date: _____ 02/23/2024

SHEET
C119

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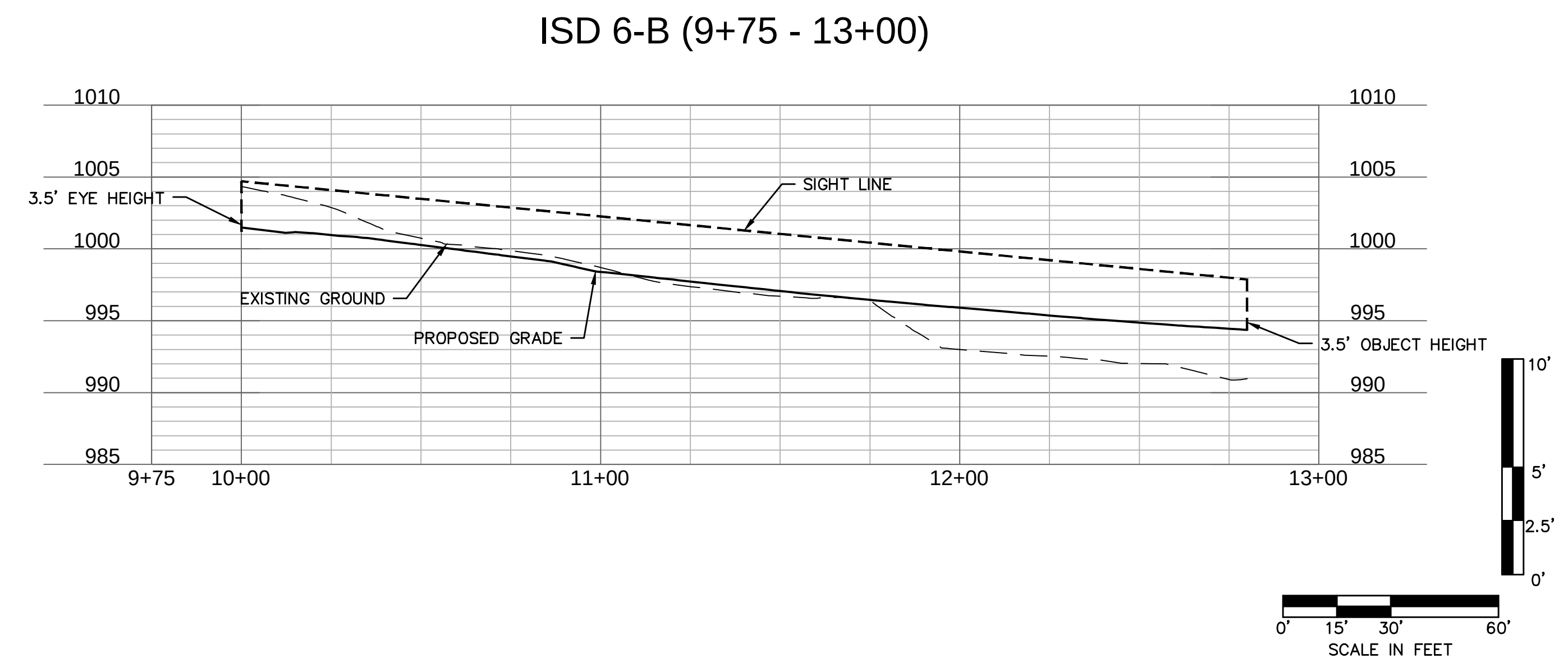
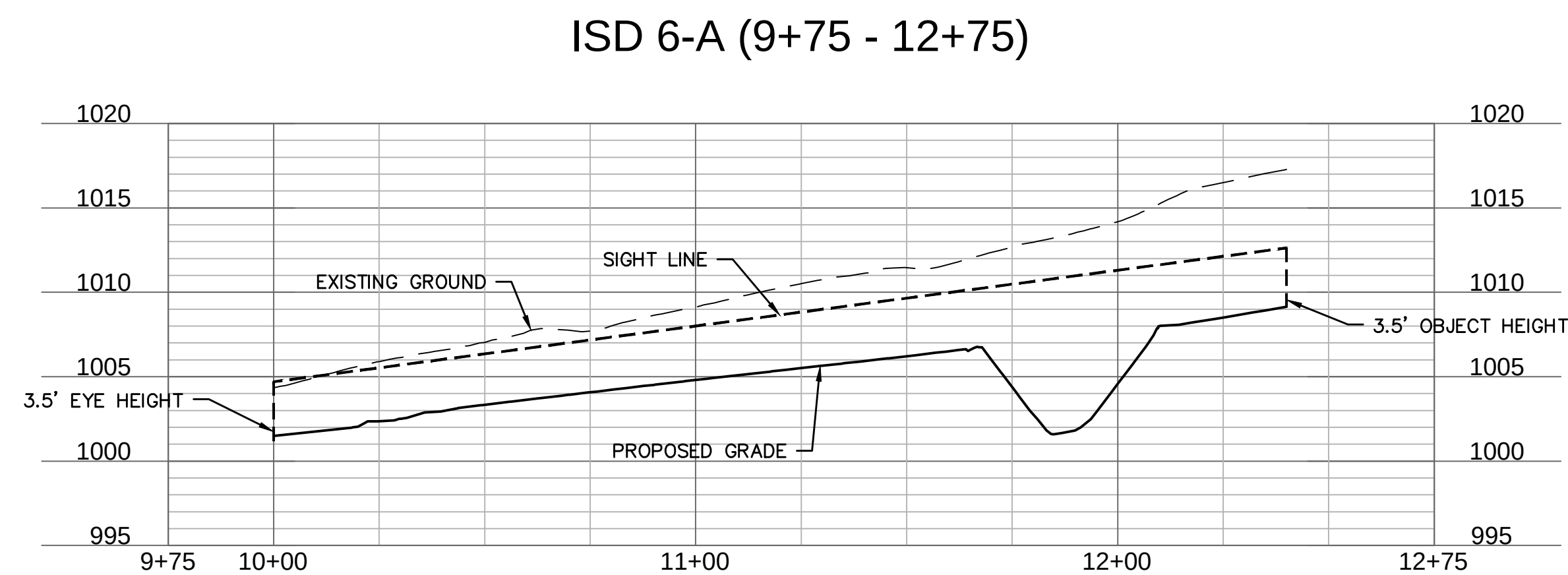
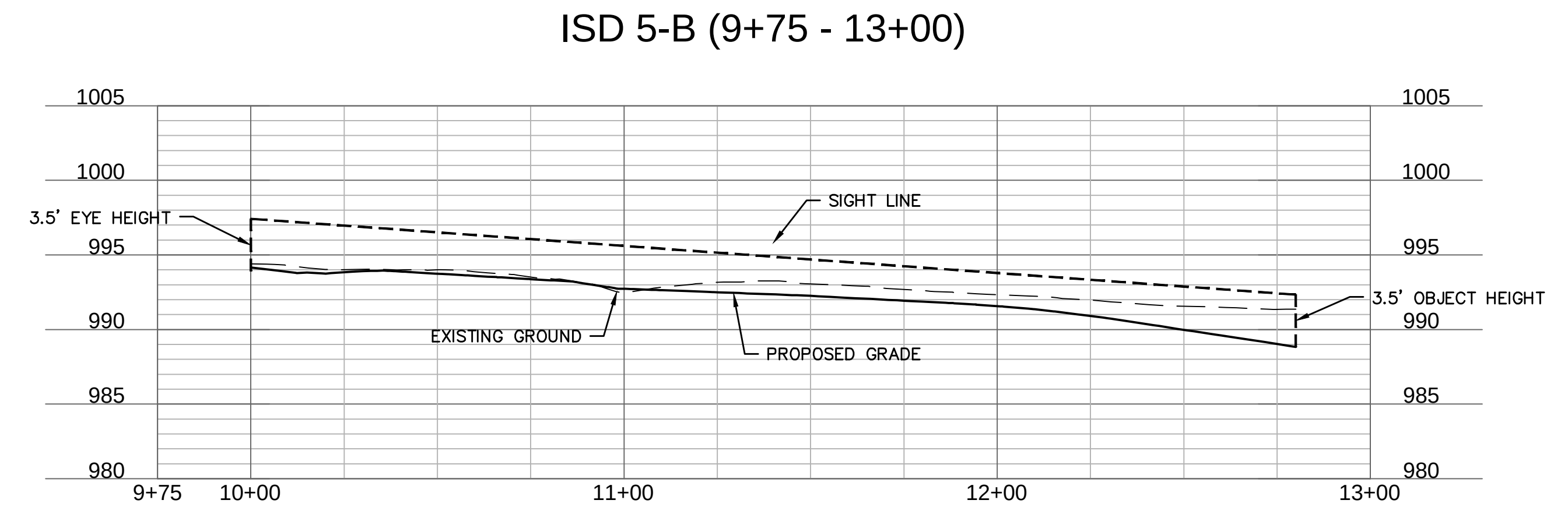
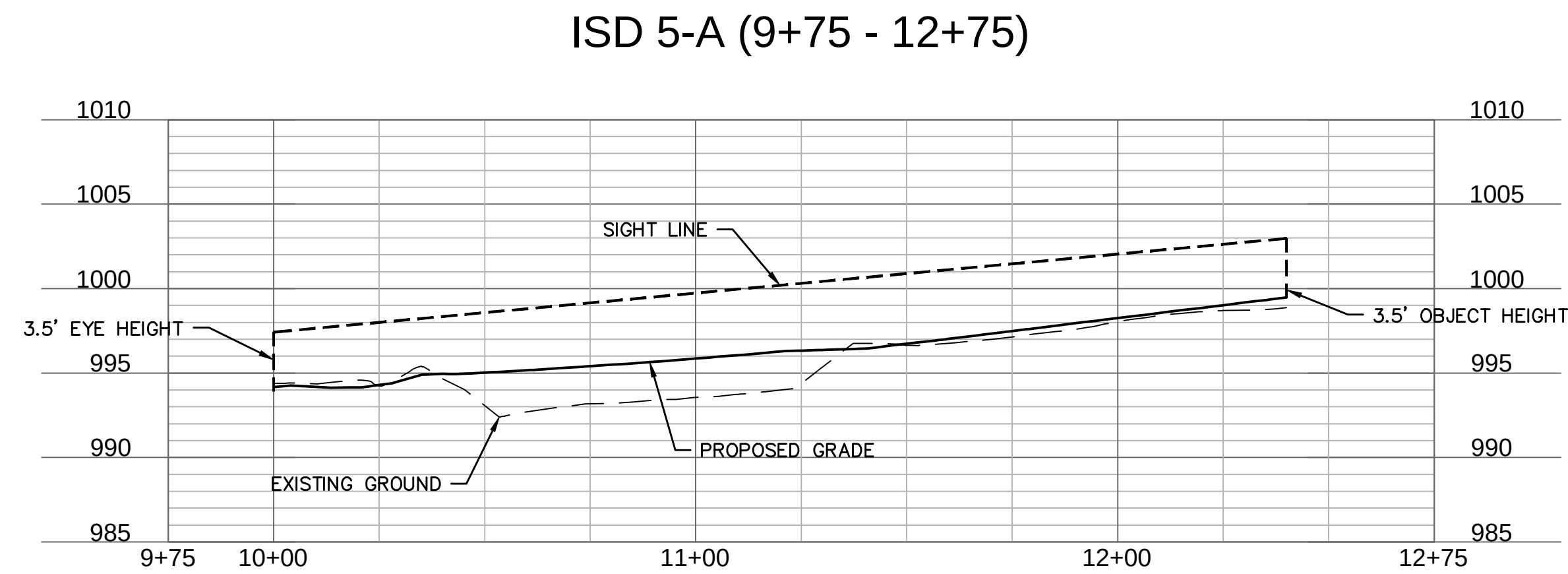
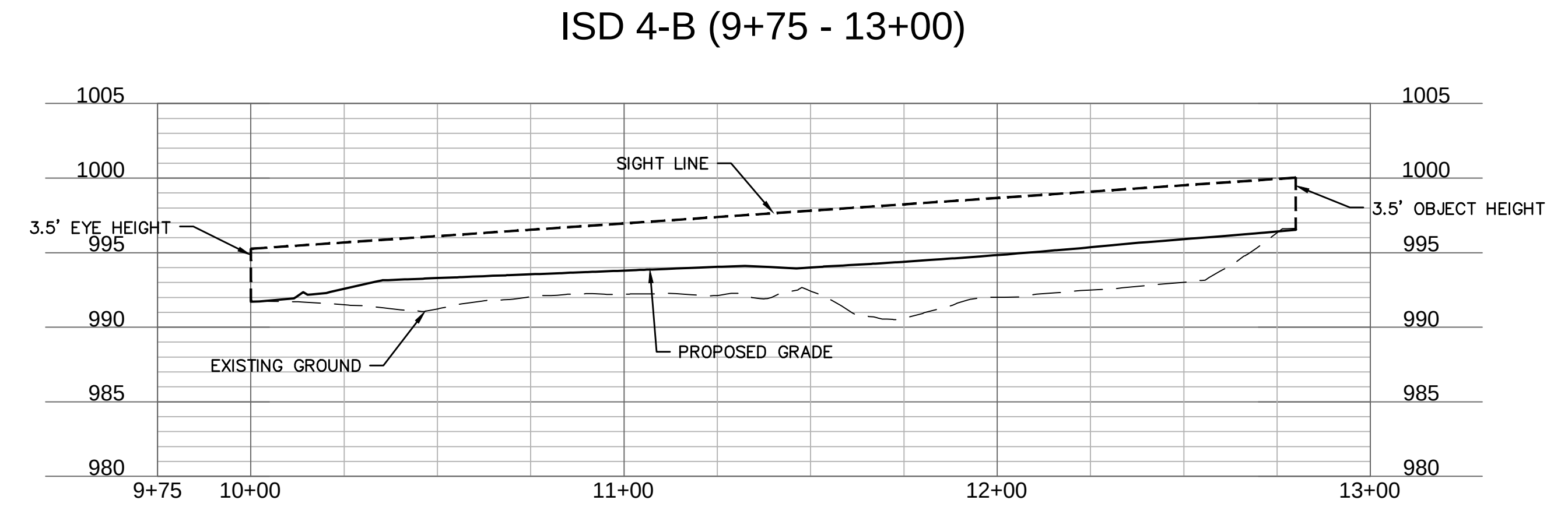
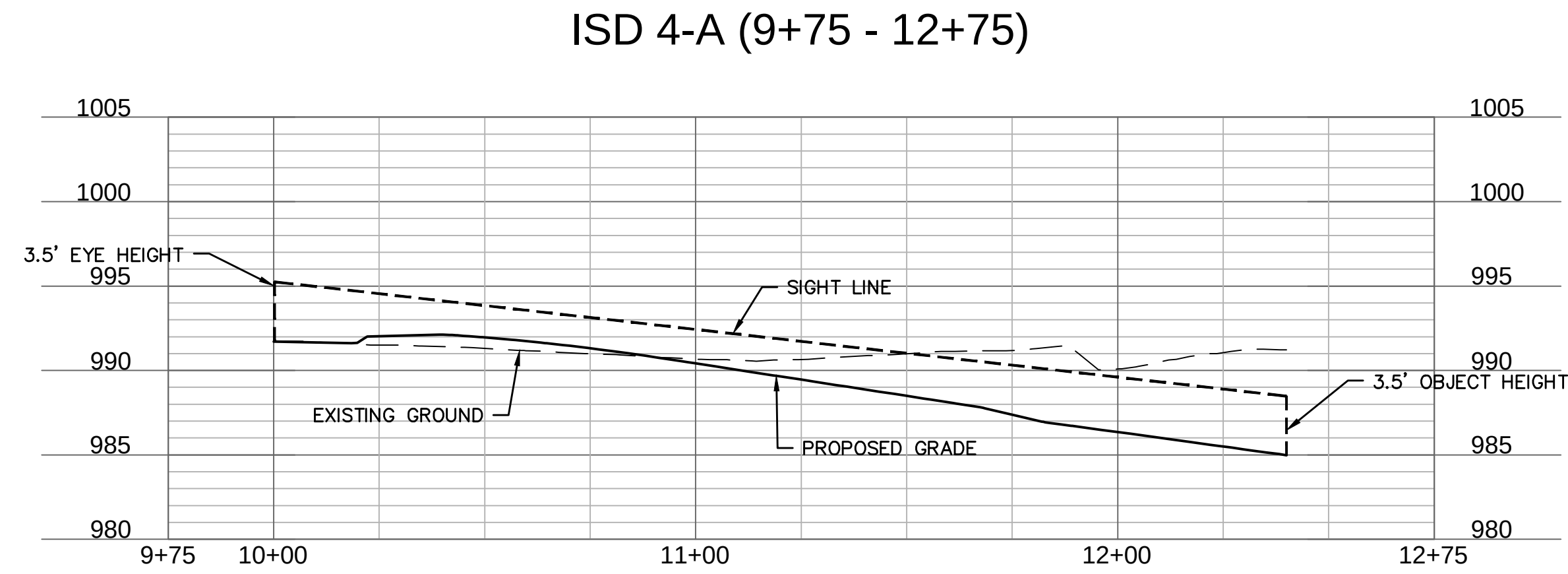
STATE OF MISSOURI
 STEPHEN M. SAYLOR
 NUMBER
 PE-2018021248
 PROFESSIONAL ENGINEER

also

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29/2024

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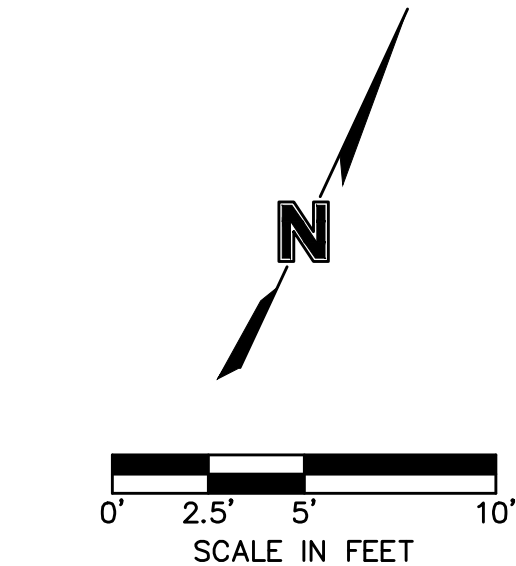
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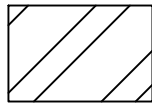
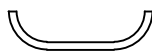
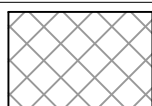
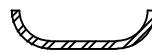
EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI	2023
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Drawn by: _____ CW
 Checked by: _____ SS
 Approved by: _____ JS
 QA/QC by: _____ JS
 Project no.: _____ A20-2467
 Drawing no.: C TCP02 A202467
 Date: _____ 02/23/2024

SHEET
C120



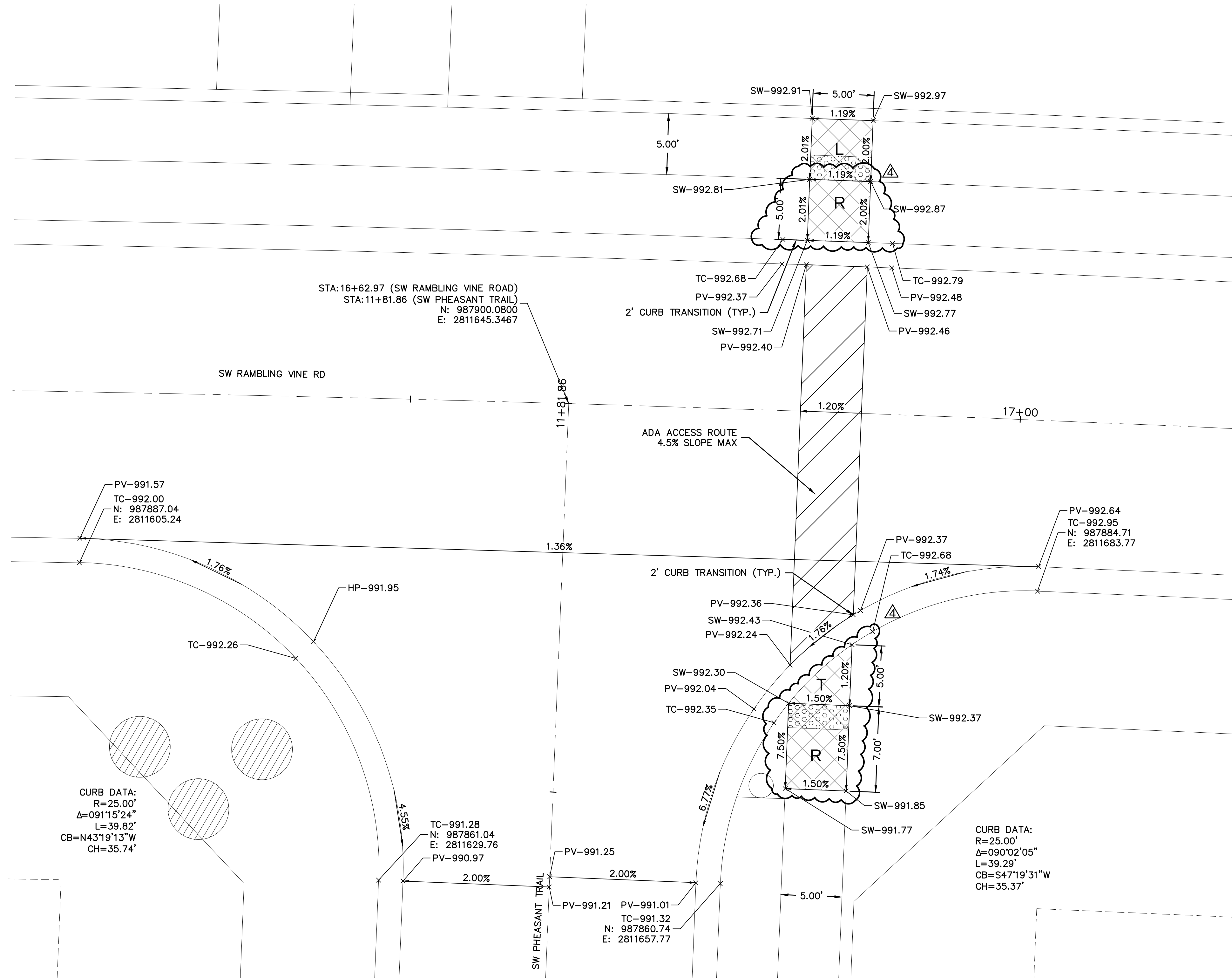
- | LEGEND | |
|---|--|
| TC-- | TOP OF CURB |
| PV-- | TOP OF PAVEMENT |
| SW-- | SIDEWALK |
| L | LANDING AREA |
| R | RAMP AREA |
| T | TRANSITION AREA |
|  | ADA ACCESS ROUTE |
|  | CG-2 CURB & GUTTER |
|  | CONCRETE SIDEWALK
(CONSTRUCTED BY CONTRACTOR) |
|  | CG-1 CURB & GUTTER (WET) |
|  | CG-1 CURB & GUTTER (DRY) |



5/29/2024

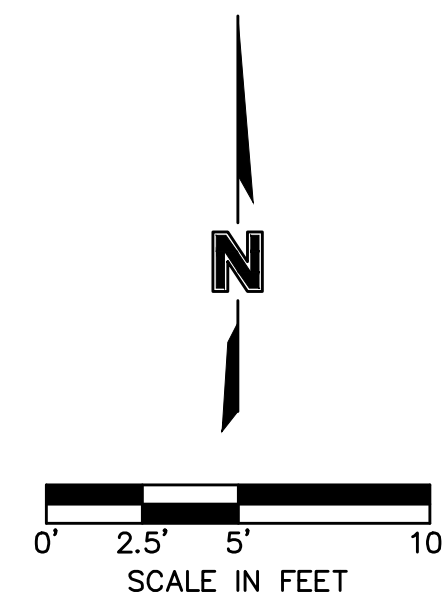
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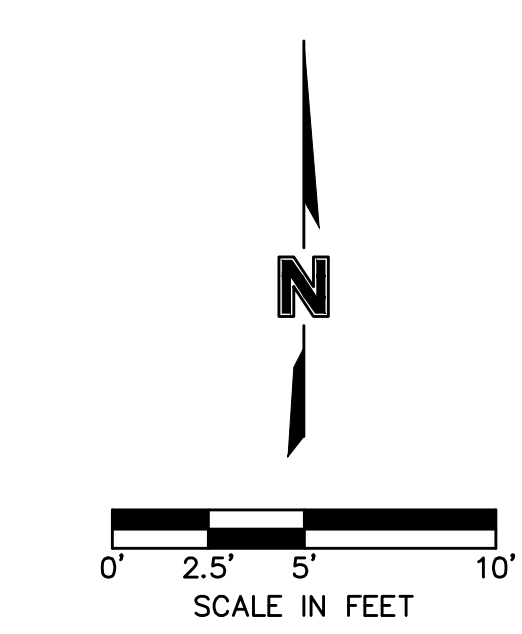


- INTERSECTION AND ADA DETAIL NOTES:
1. ALL ADA CURB RAMPS SHALL BE BUILT PER CURRENT MUNICIPALITY ADOPTED ADA STANDARDS.
2. CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10 MAX SLOPES.
3. LANDING SHALL BE PROVIDED WHERE INDICATED ON PLAN SHEET OR BY PROWAG STANDARDS. LANDING SHALL BE 4'x4' MINIMUM.
4. RAMP RUNS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:12. UNLESS THE RAMP LENGTH IS OVER 15 FEET, THEN THE SLOPE CAN BE GREATER AS INDICATED IN DETAILS TO REACH STREET GRADES.
5. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
6. CROSS SLOPE FOR RAMPS AND SIDEWALK SHALL NOT EXCEED 2%.
7. AFTER CURBS HAVE BEEN CONSTRUCTED, AND BEFORE ASPHALT OR CONCRETE PAVEMENT IS POURED, CURBS SHOULD BE MEASURED WITH A LEVEL TO ENSURE CURB ALONG ADA RAMPS AND LANDINGS WILL MEET ADA REQUIREMENTS.
8. ADA RAMP CONSTRUCTION WILL BE INSPECTED THOROUGHLY BY THE CITY INSPECTOR. CONTRACTOR SHALL BE REQUIRED TO RECONSTRUCT RAMPS, CURBS AND/OR PAVEMENT AT CONTRACTOR'S EXPENSE IF ADA RAMPS AND LANDINGS CANNOT MEET THE ADA REQUIREMENTS, PER APPROVED PLAN OR APPROVED ALTERNATIVE.
9. CURVE DATA IS FOR BACK OF CURB.

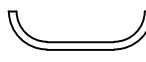
LEGEND	
TC—	TOP OF CURB
PV—	TOP OF PAVEMENT
SW—	SIDEWALK
L	LANDING AREA
R	RAMP AREA
T	TRANSITION AREA
	ADA ACCESS ROUTE
	CG-2 CURB & GUTTER
	CONCRETE SIDEWALK (CONSTRUCTED BY CONTRACTOR)



—Design\AutoCAD\F
C_PUTIL_A202467



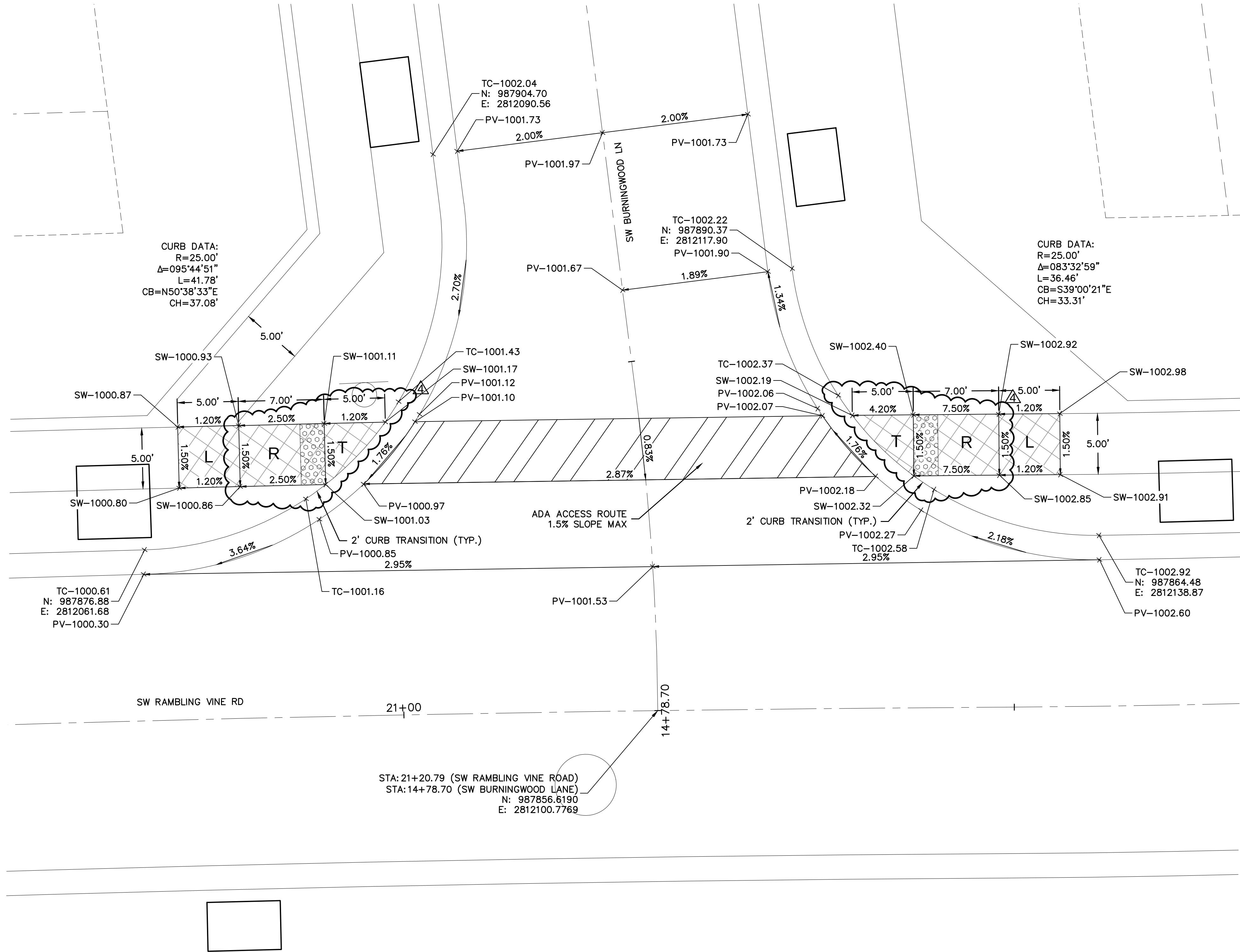
- INTERSECTION AND ADA DETAIL NOTES:
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9. CURVE DATA IS FOR BACK OF CURB.

LEGEND	
TC-	TOP OF CURB
PV-	TOP OF PAVEMENT
SW-	SIDEWALK
L	LANDING AREA
R	RAMP AREA
T	TRANSITION AREA
	ADA ACCESS ROUTE
	CG-2 CURB & GUTTER
	CONCRETE SIDEWALK (CONSTRUCTED BY CONTRACTOR)

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USER: smarsh



- INTERSECTION AND ADA DETAIL NOTES:
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 8. ADA RAMP CONSTRUCTION WILL BE INSPECTED THOROUGHLY BY THE CITY INSPECTOR. CONTRACTOR SHALL BE REQUIRED TO RECONSTRUCT RAMPS, CURBS AND/OR PAVEMENT AT CONTRACTOR'S EXPENSE IF ADA RAMPS AND LANDINGS CANNOT MEET THE ADA REQUIREMENTS, PER APPROVED PLAN OR APPROVED ALTERNATIVE.
 9. CURVE DATA IS FOR BACK OF CURB.

LEGEND	
TC-	TOP OF CURB
PV-	TOP OF PAVEMENT
SW-	SIDEWALK
L	LANDING AREA
R	RAMP AREA
T	TRANSITION AREA
	ADA ACCESS ROUTE
	CG-2 CURB & GUTTER
	CONCRETE SIDEWALK (CONSTRUCTED BY CONTRACTOR)

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STATE OF MISSOURI
STEPHEN M. SAYLOR
PROFESSIONAL ENGINEER
NUMBER
PE-2018021248
5/29/2024

SW RAMBLING VINE RD & SW BURNINGWOOD LN STREET & STORM SEWER PLANS	EAGLE CREEK VILLAS FIRST PLAT	LEE'S SUMMIT, MISSOURI	2023	REVISIONS	
				BY	
				REVISIONS DESCRIPTION	
				DATE	
REV. NO.	4	05/29/2024		REVISED PER CITY COMMENTS	

drawn by: _____ CW

checked by: _____ SS

approved by: _____ JS

QA/QC by: _____ JS

project no.: A20-2467

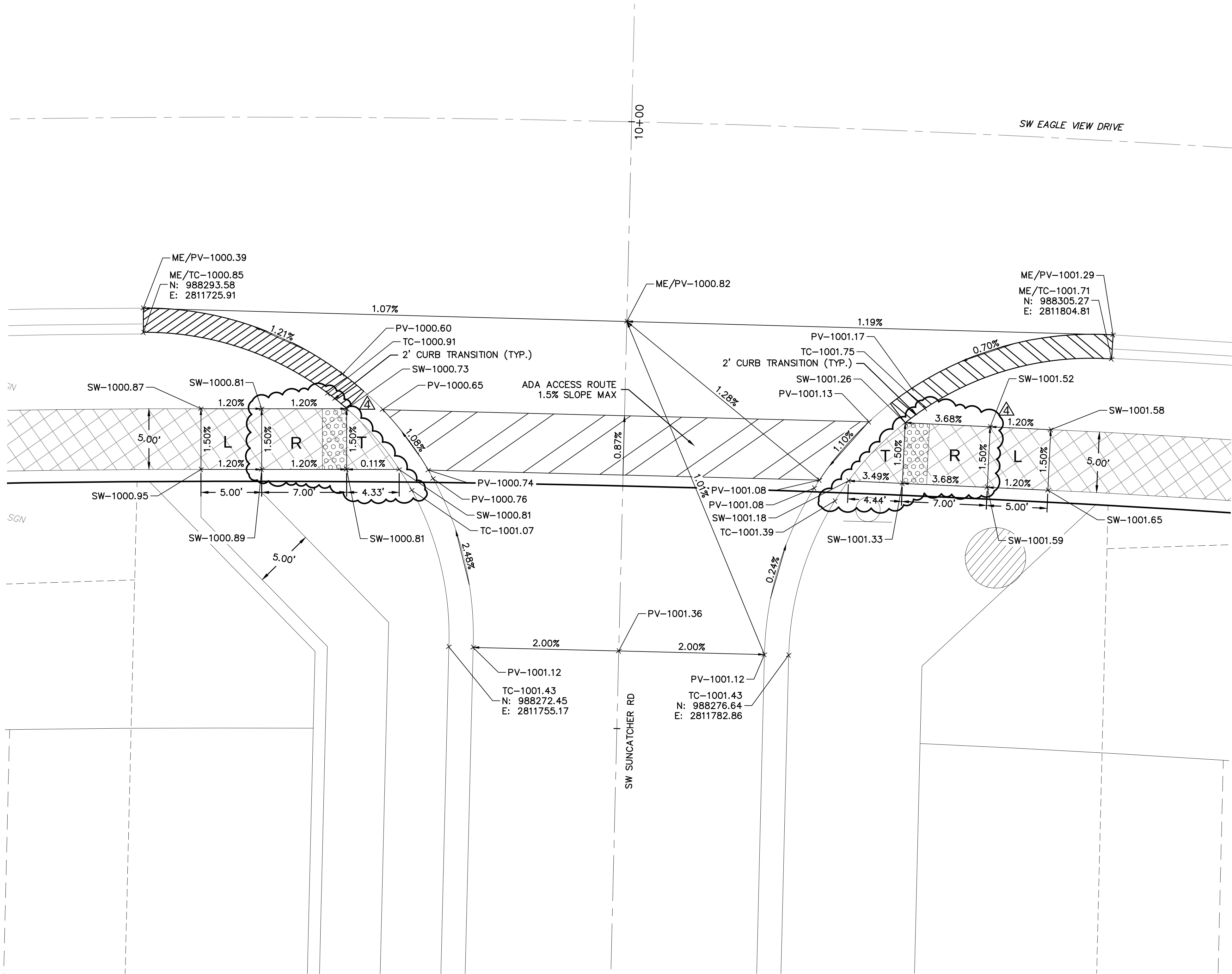
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date: 02/23/2024

SHEET

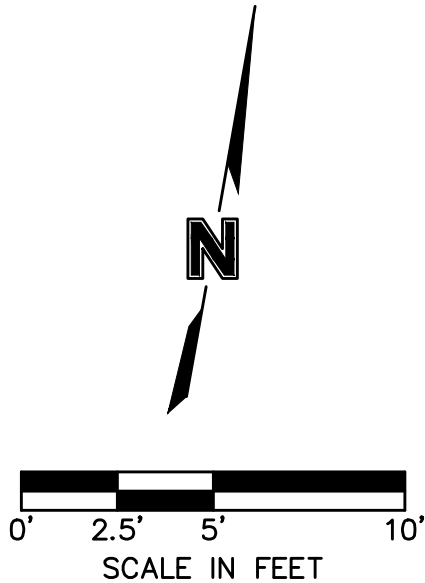
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USER: smarsh



- INTERSECTION AND ADA DETAIL NOTES:
1. ALL ADA CURB RAMPS SHALL BE BUILT PER CURRENT MUNICIPALITY ADOPTED ADA STANDARDS.
 2. CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10 MAX SLOPES.
 3. LANDINGS SHALL BE PROVIDED WHERE INDICATED ON PLAN SHEET OR BY PROWAG STANDARDS. LANDING SHALL BE 4'X4' MINIMUM.
 4. RAMP RUNS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:12 UNLESS THE RAMP LENGTH IS OVER 15 FEET, THEN THE SLOPE CAN BE GREATER AS INDICATED IN DETAILS TO REACH STREET GRADES.
 5. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
 6. CROSS SLOPE FOR RAMPS AND SIDEWALK SHALL NOT EXCEED 2%.
 7. AFTER CURBS HAVE BEEN CONSTRUCTED, AND BEFORE ASPHALT OR CONCRETE PAVEMENT IS POURED, CURBS SHOULD BE MEASURED WITH A LEVEL TO ENSURE CURB ALONG ADA RAMPS AND LANDINGS WILL MEET ADA REQUIREMENTS.
 8. ADA RAMP CONSTRUCTION WILL BE INSPECTED THOROUGHLY BY THE CITY INSPECTOR. CONTRACTOR SHALL BE REQUIRED TO RECONSTRUCT RAMPS, CURBS AND/OR PAVEMENT AT CONTRACTOR'S EXPENSE IF ADA RAMPS AND LANDINGS CANNOT MEET THE ADA REQUIREMENTS, PER APPROVED PLAN OR APPROVED ALTERNATIVE.
 9. CURVE DATA IS FOR BACK OF CURB.

LEGEND	
TC-	TOP OF CURB
PV-	TOP OF PAVEMENT
SW-	SIDEWALK
L	LANDING AREA
R	RAMP AREA
T	TRANSITION AREA
	ADA ACCESS ROUTE
	CG-2 CURB & GUTTER
	CONCRETE SIDEWALK (CONSTRUCTED BY CONTRACTOR)
	CG-1 CURB & GUTTER (WET)
	CG-1 CURB & GUTTER (DRY)



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STATE OF MISSOURI
STEPHEN M. SAYTOR
PROFESSIONAL ENGINEER
NUMBER
PE-2018021248

5/29/2024

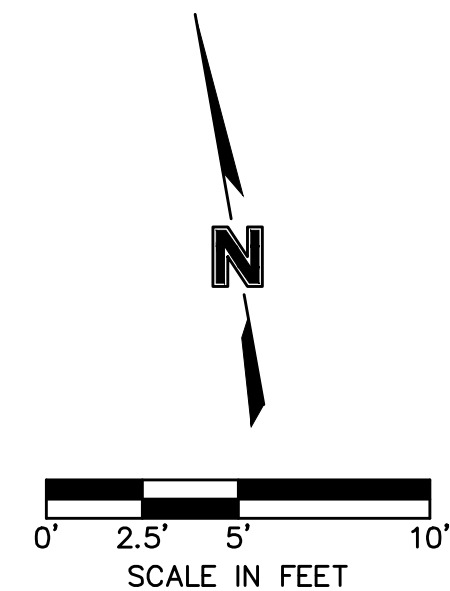
BY	
REV.	NO.
4	05/29/2024
REVISED PER CITY COMMENTS	

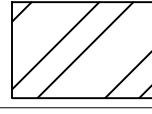
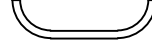
SW SUNCATCHER RD & SW EAGLE VIEW DR STREET & STORM SEWER PLANS	
EAGLE CREEK VILLAS FIRST PLAT	
LEE'S SUMMIT, MISSOURI	2023

drawn by:	CW
checked by:	SS
approved by:	JS
QA/QC by:	JS
project no.:	A20-2467
drawing no.:	C_INT01_A202467
date:	02/23/2024

SHEET
C125

C_PPATT_A202467



LEGEND	
TC—	TOP OF CURB
PV—	TOP OF PAVEMENT
SW—	SIDEWALK
L	LANDING AREA
R	RAMP AREA
T	TRANSITION AREA
	ADA ACCESS ROUTE
	CG-2 CURB & GUTTER
	CONCRETE SIDEWALK (CONSTRUCTED BY CONTRACTOR)
	CG-1 CURB & GUTTER (WET)
	CG-1 CURB & GUTTER (DRY)

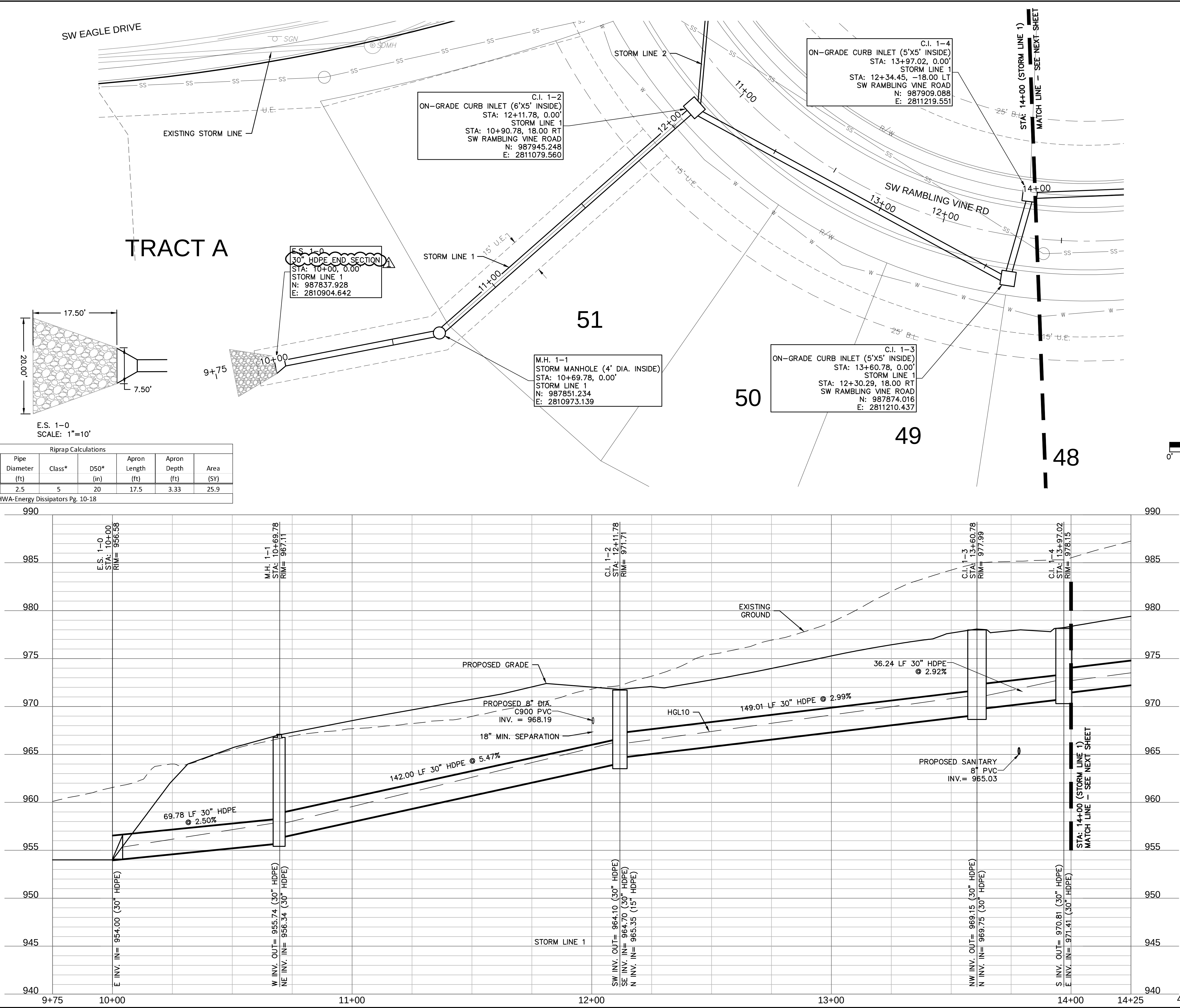
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USER: smarsh C_PBNDRY_A202467

Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 1-0	63.2	2.5	5	20	17.5	3.33
Area (SY)						
E.S. 1-0						25.9

* Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18



NOTE: ANY CURB INLET TALLER THAN 7 FEET WILL REQUIRE SPECIAL DESIGN

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STEPHEN M. SAYLOR
NUMBER
PE-2018021248
5/29/2024

BY

REVISIONS

STORM SEWER PLAN & PROFILE (LINE 1)
STREET & STORM SEWER PLANS

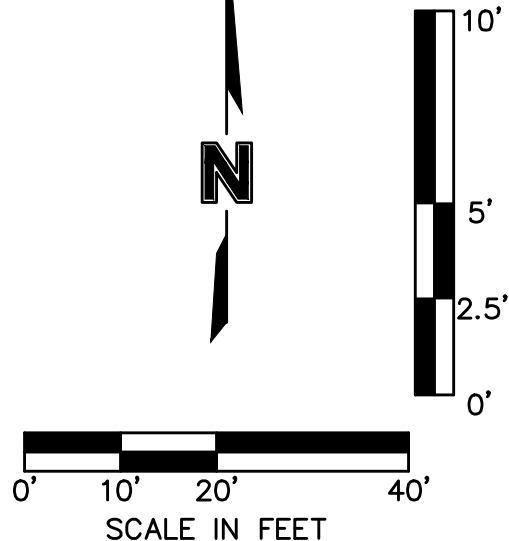
EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: CQ
checked by: SS
approved by: JS
QA/QC by: JS
project no.: A20-2467
drawing no.: C_STM01_A202467
date: 02/23/2024

SHEET
C127

USER: smarth
C_PBND

EAGLE CREEK VILLAS
FIRST PLAT

2023

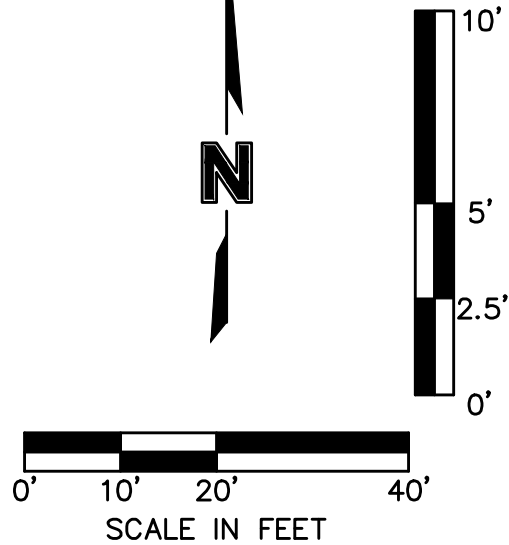
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approved by: _____ JS
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project no.: _____ A20-2467
drawing no.: C STM01 A202467
date: _____ 02/23/2024

SHEET
C128

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USER: smarth
C_PBND

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

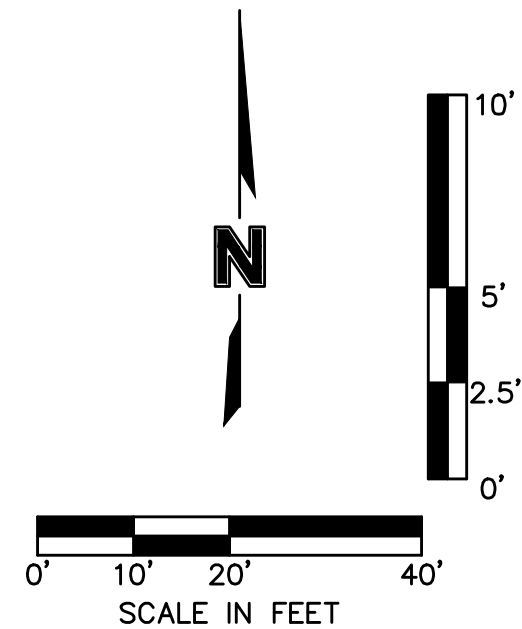
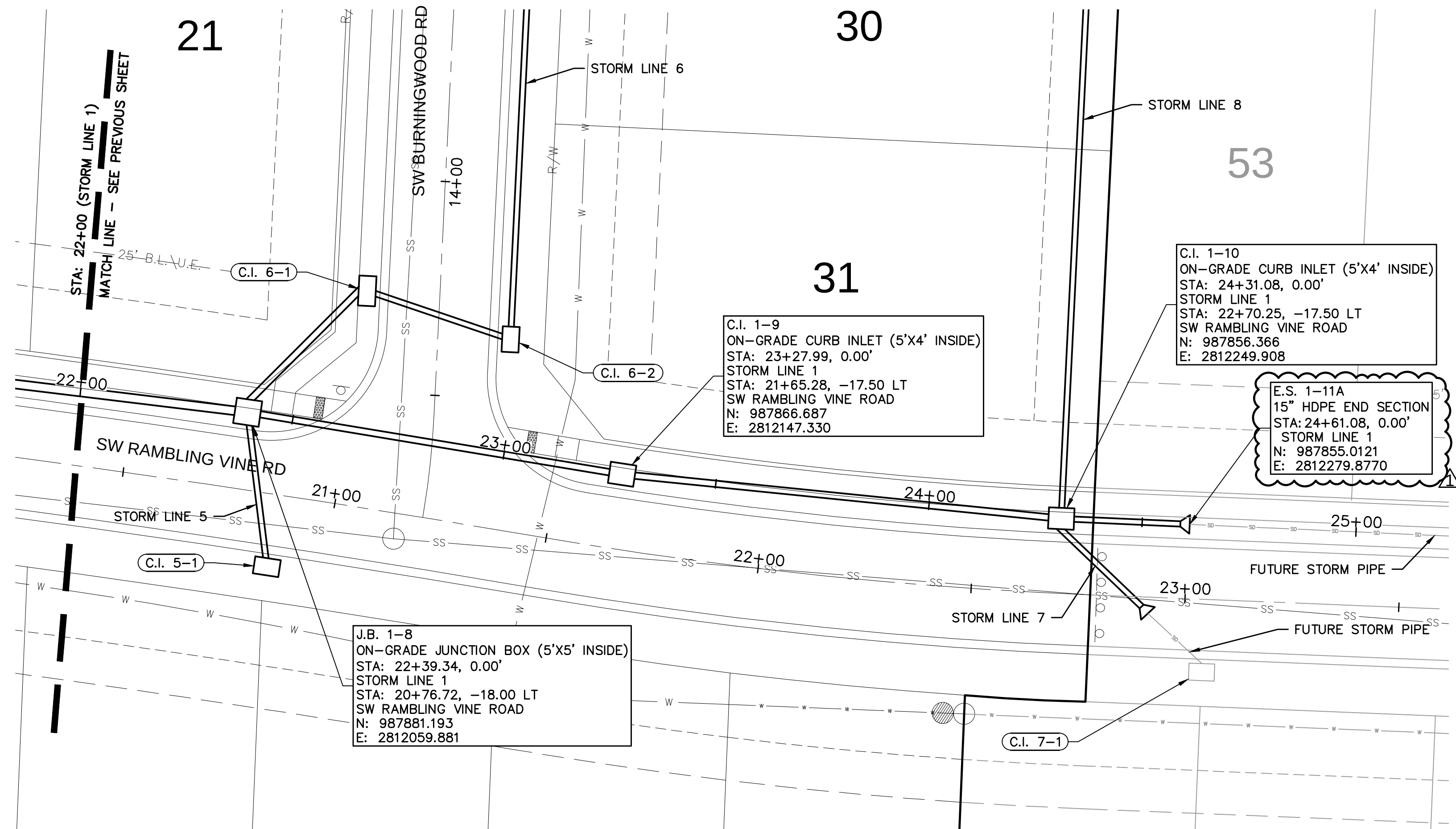
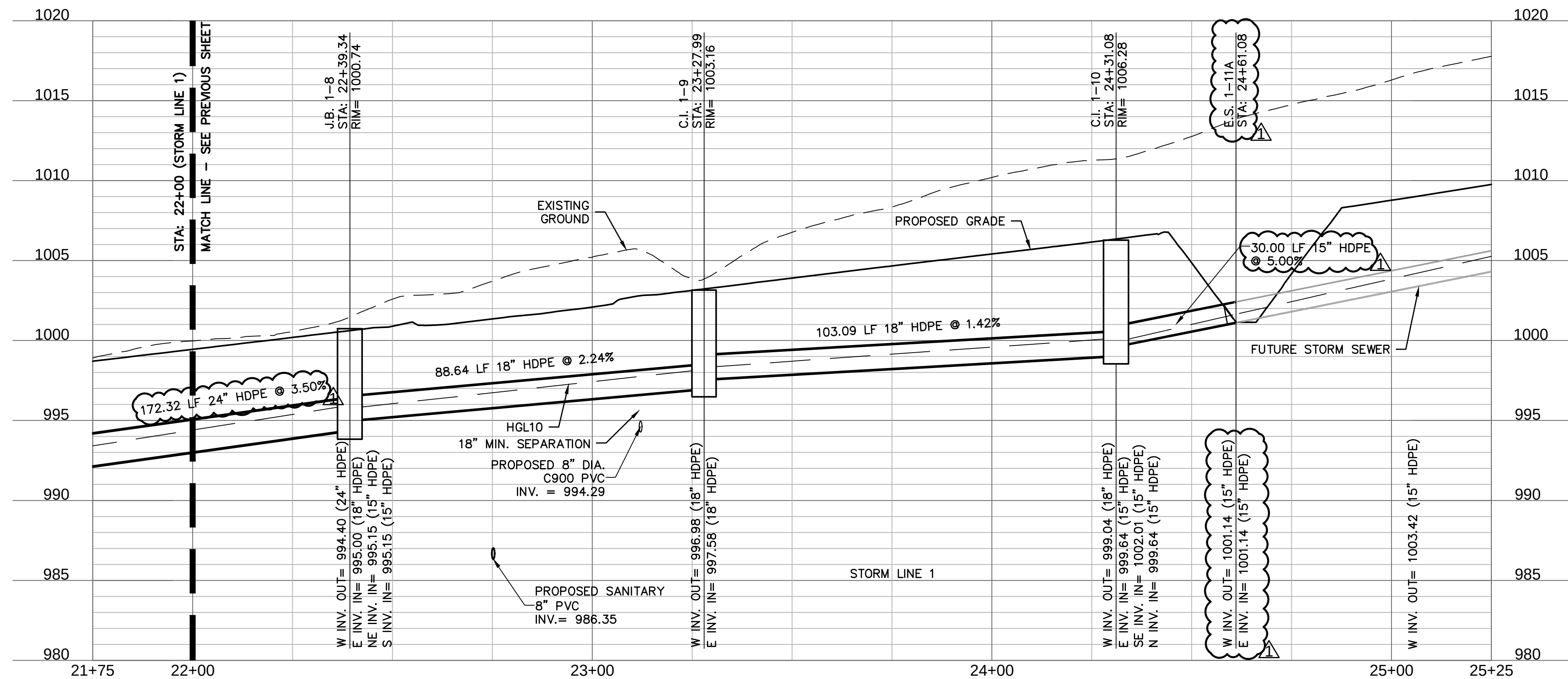
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C129

REVISIONS

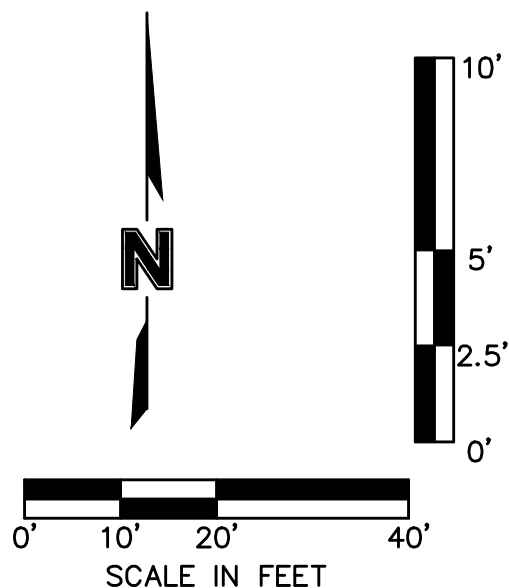


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STORM SEWER PLAN & PROFILE (LINE 1) STREET & STORM SEWER PLANS	drawn by: _____ CW checked by: _____ SS approved by: _____ JS QA/QC by: _____ JS project no.: _____ A20-2467 drawing no.: C_STM01 A202467 date: 02/23/2024	REV. NO. 1 DATE 02/23/2024 REVISIONS DESCRIPTION REVISED PER CITY COMMENTS	BY
	EAGLE CREEK VILLAS FIRST PLAT	2023	REVISIONS
SHEET C130			

USER: smarsh
C_PTBL

STORM SEWER PLAN & PROFILE (LINE 2)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: _____ CW
checked by: _____ SS
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A20-2467
drawing no.: C STM02 A202467
date: _____ 02/23/2024

SHEET
C131

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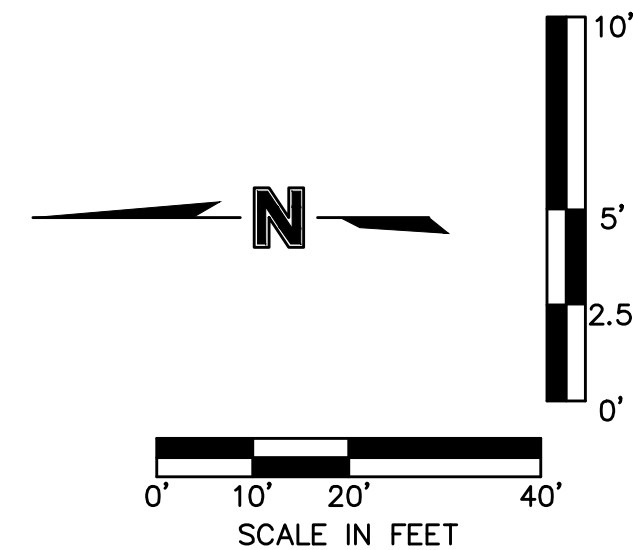
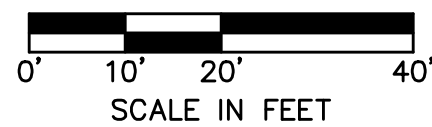
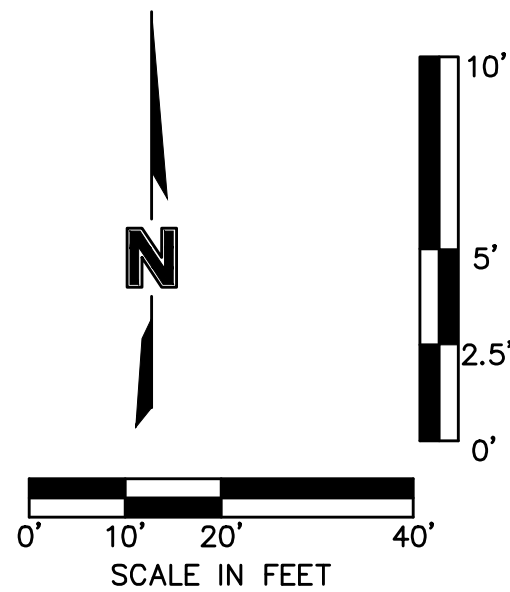
STATE OF MISSOURI
 ★
 STEPHEN M.
 SAYLOR
 NUMBER
 PE-2018021248
 ★
 PROFESSIONAL ENGINEER

olson

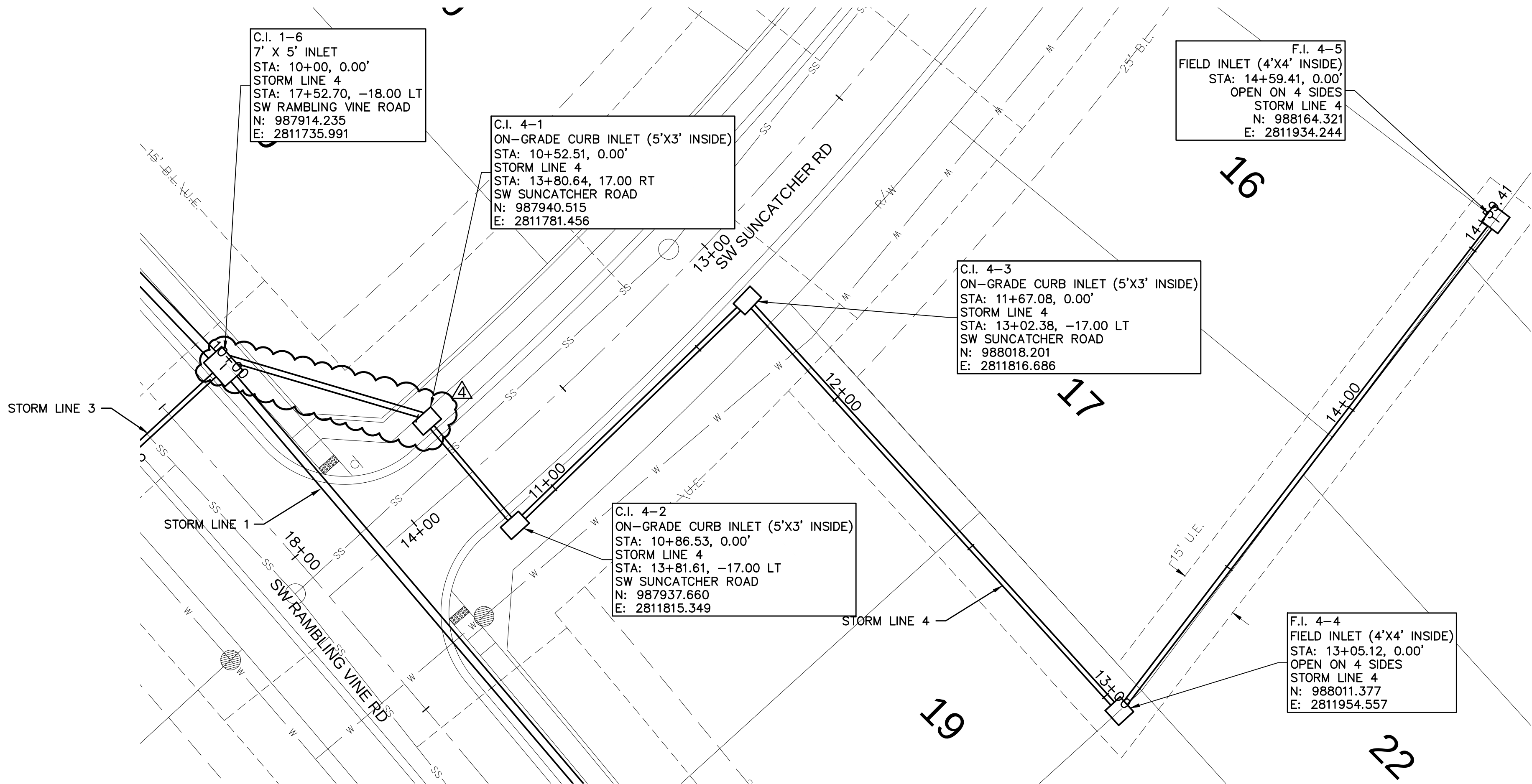
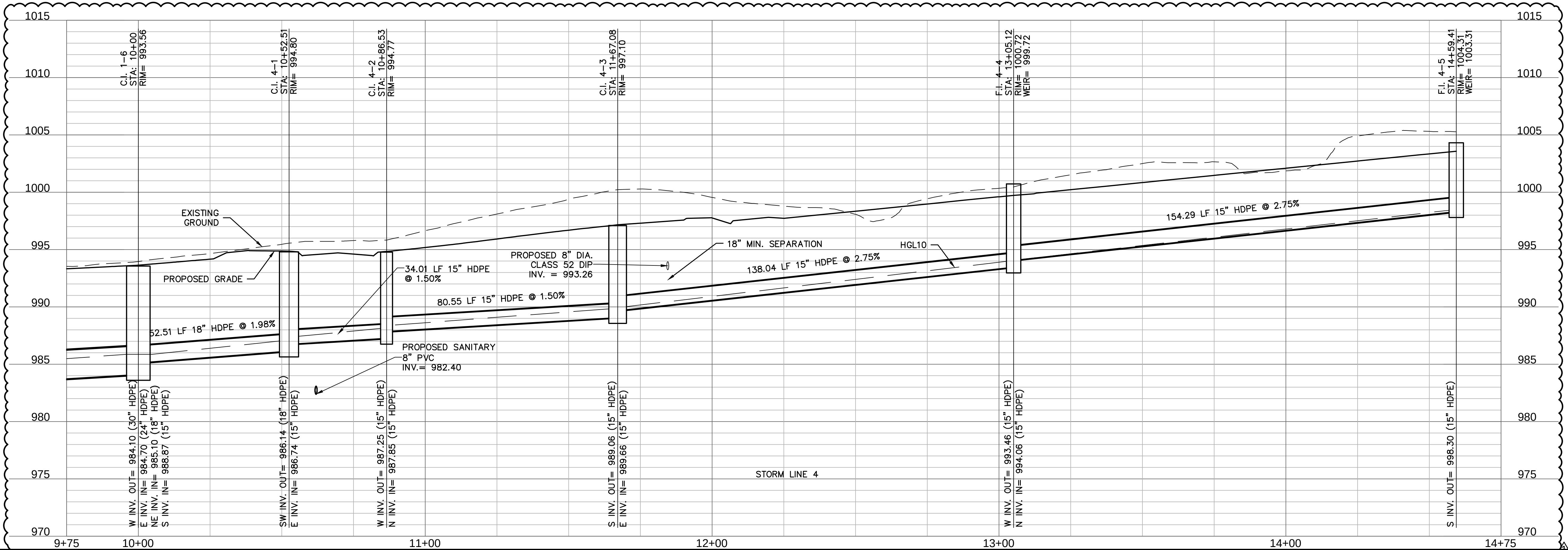
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5/29/2024

REVISIONS

STORM SEWER PLAN & PROFILE (LINE 4)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

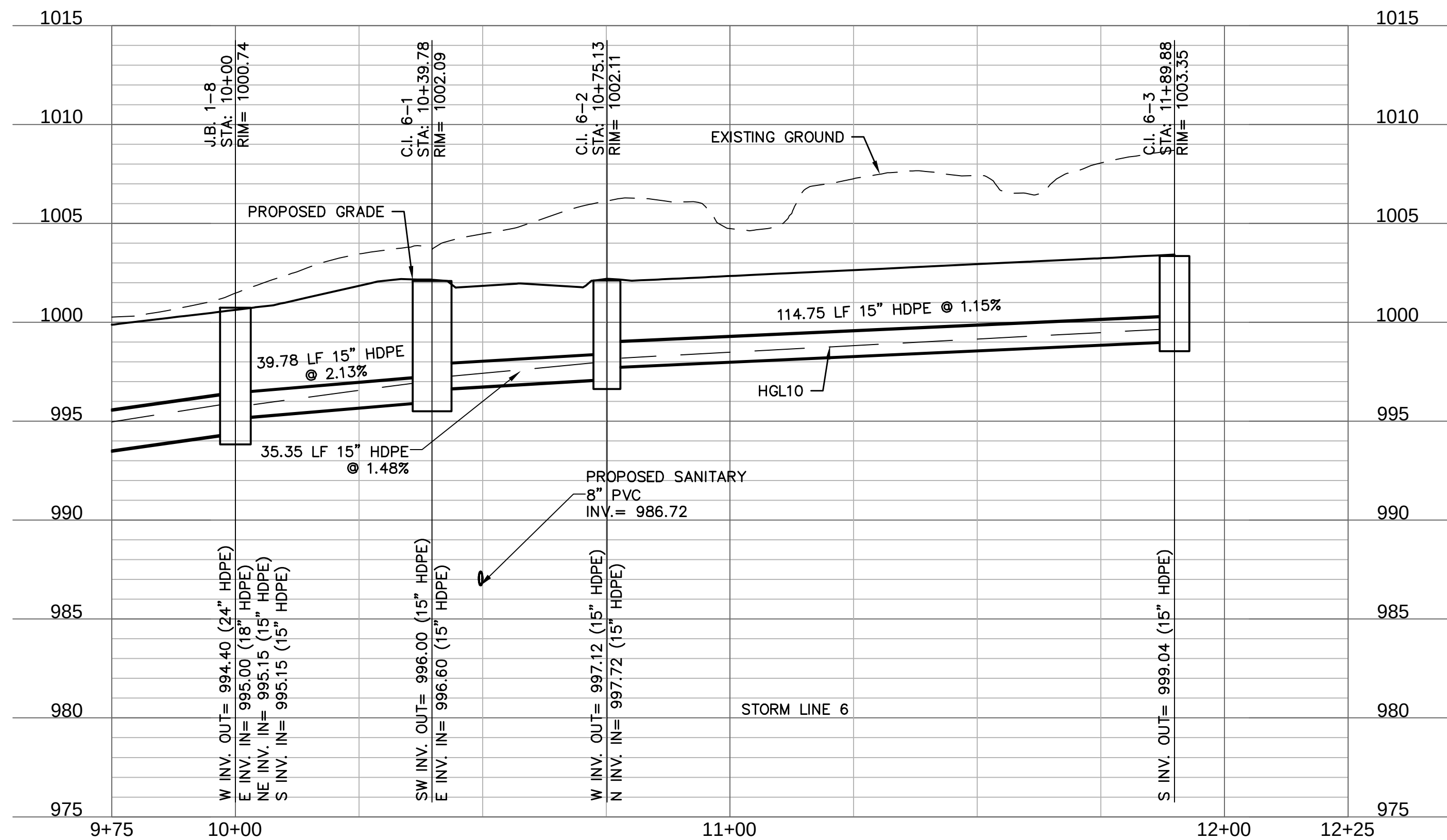
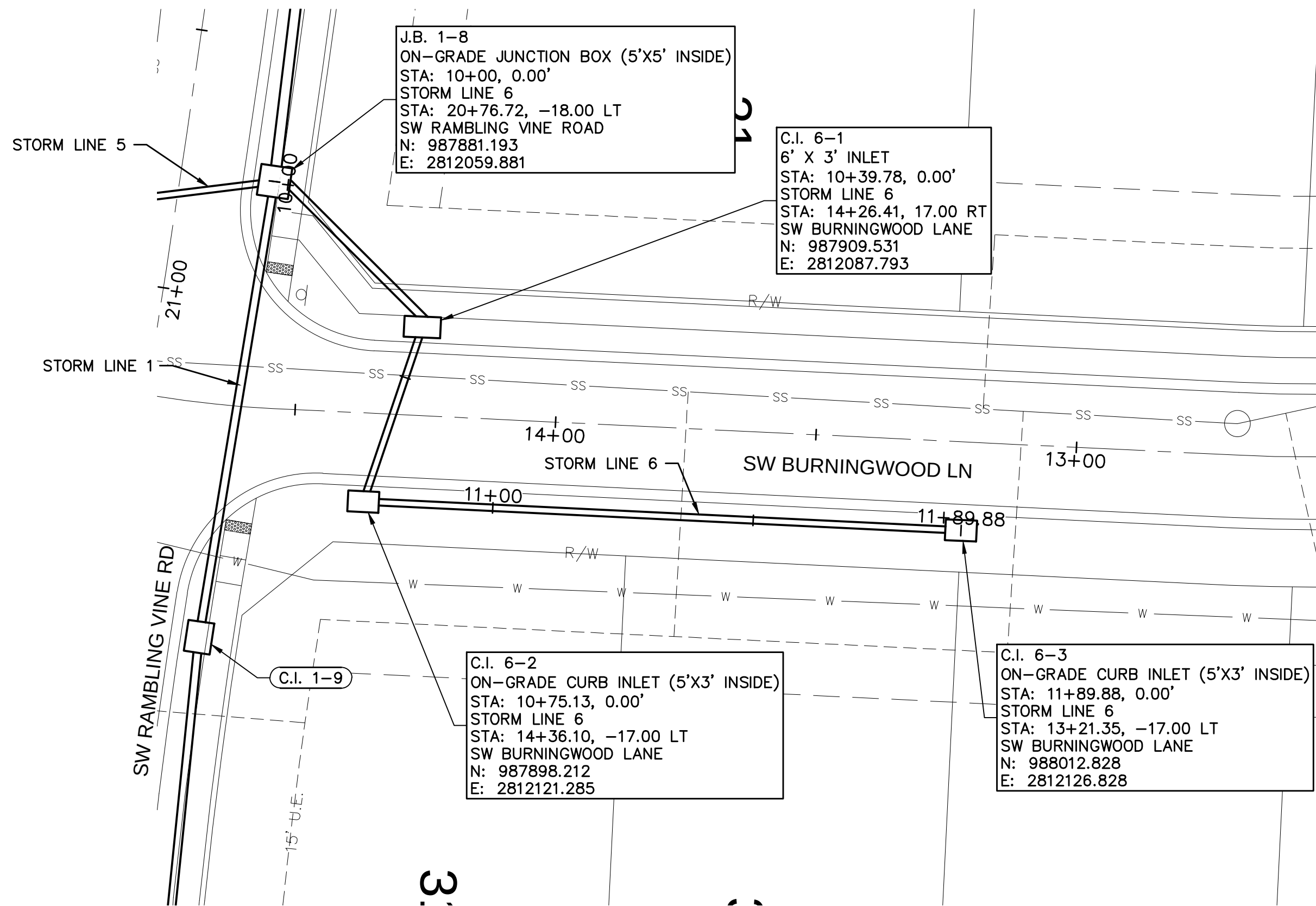
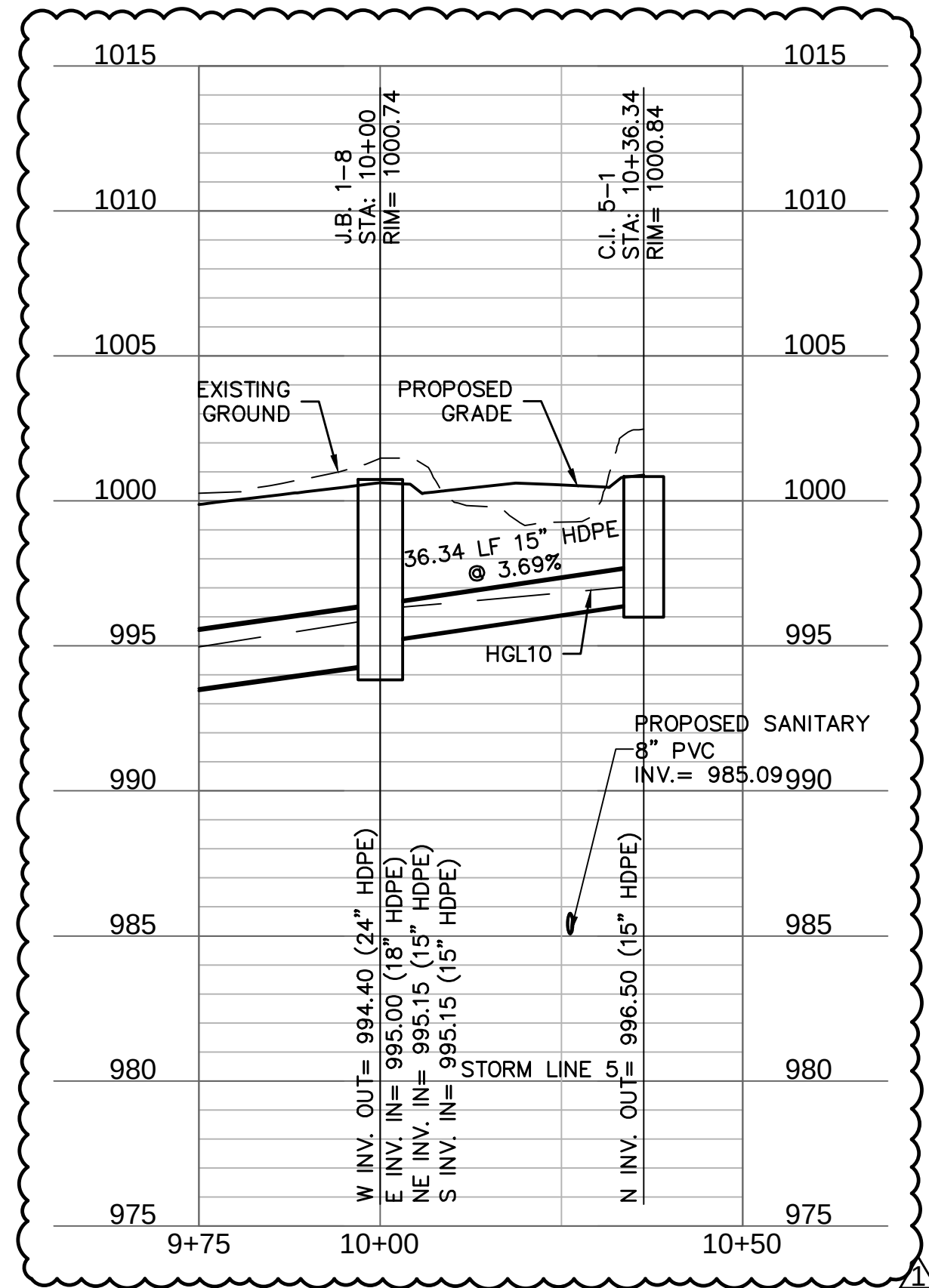
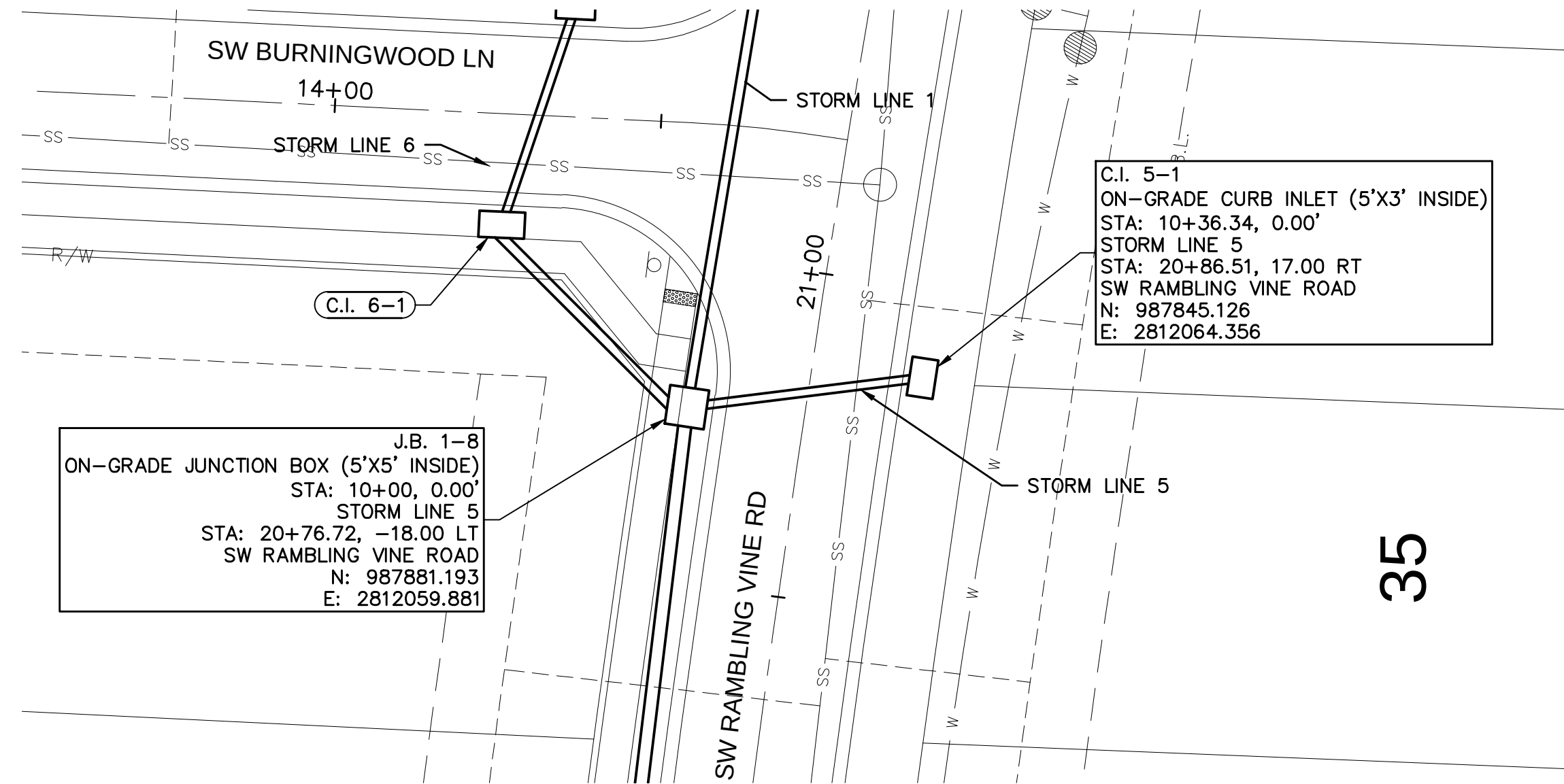
LEE'S SUMMIT, MISSOURI

2023

drawn by: _____
checked by: _____
approved by: _____
QA/QC by: _____
project no.: A20-2467
drawing no.: C_STM02_A202467
date: 02/23/2024

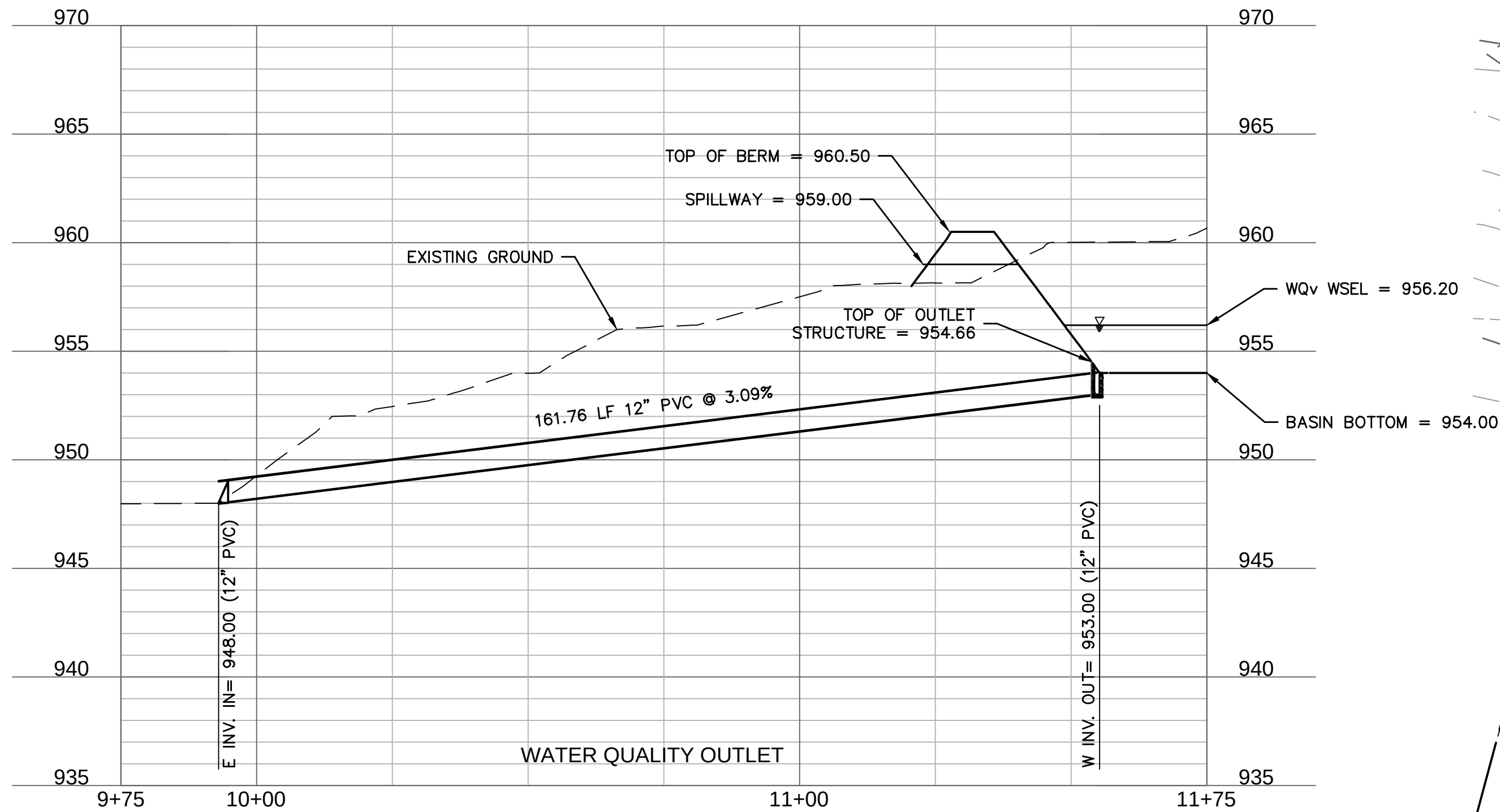
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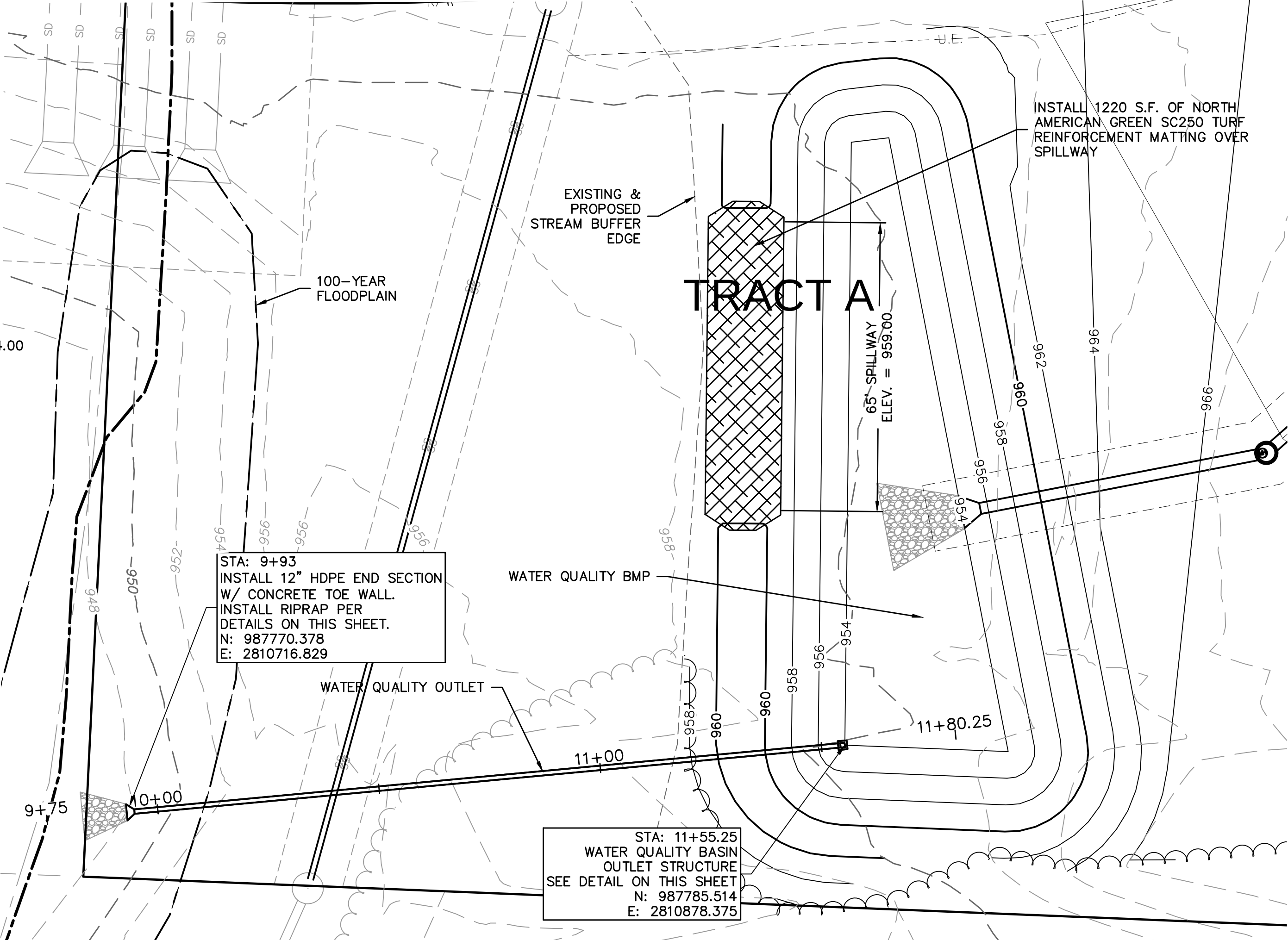
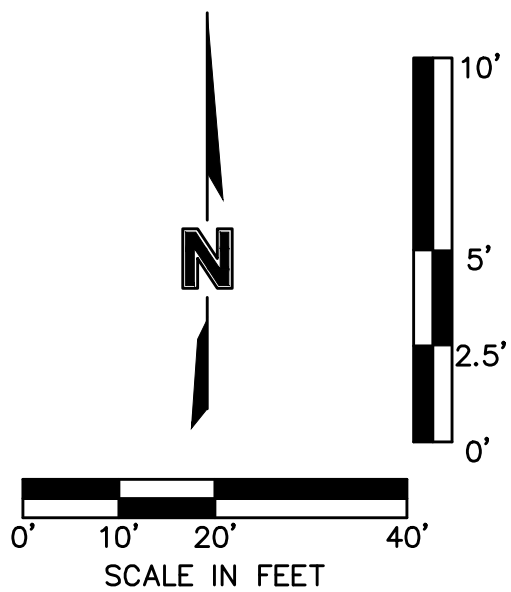


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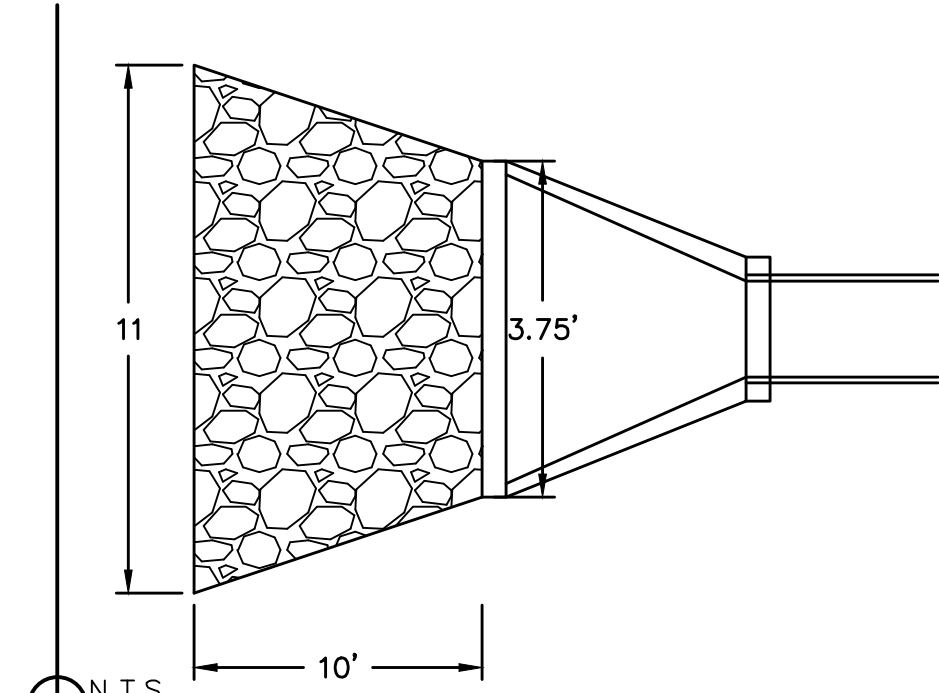
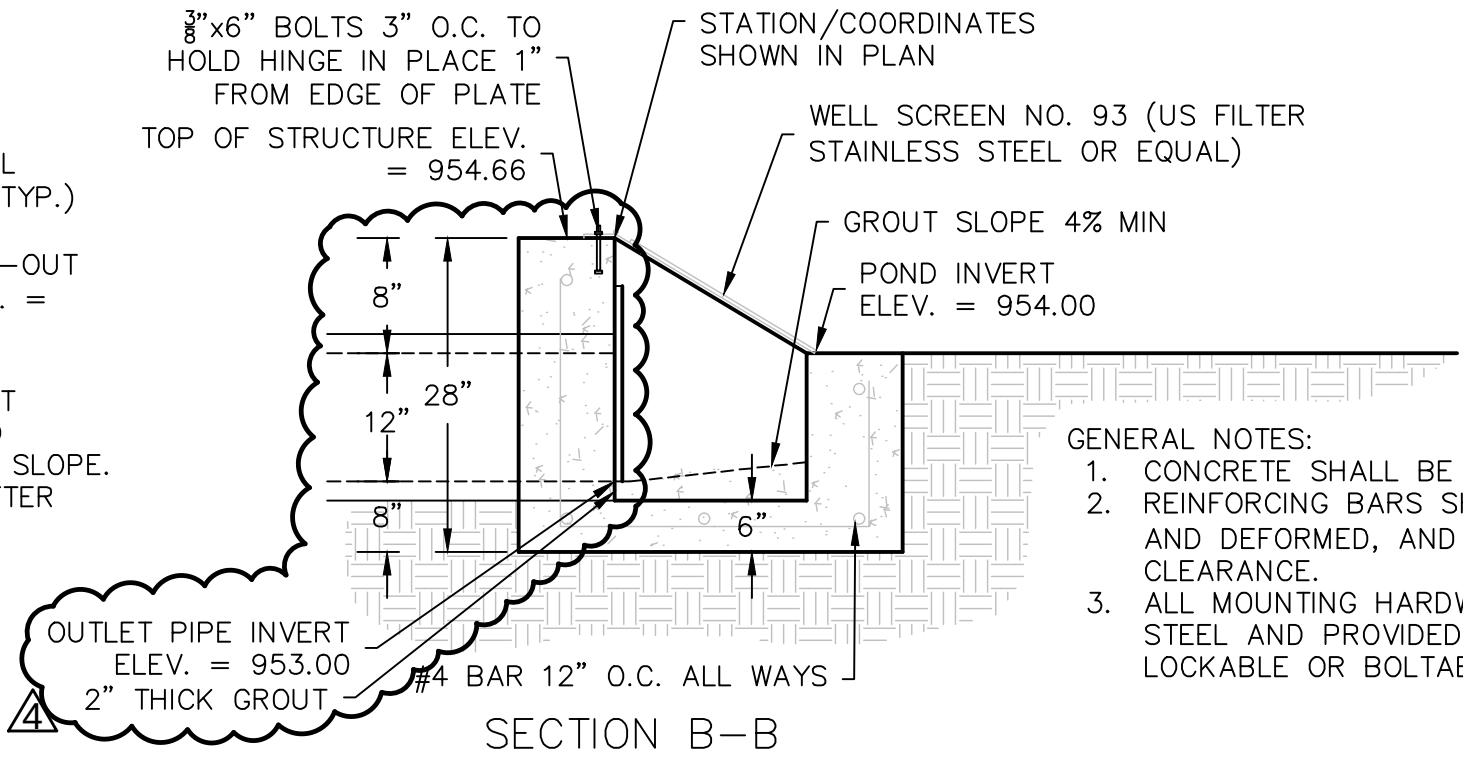
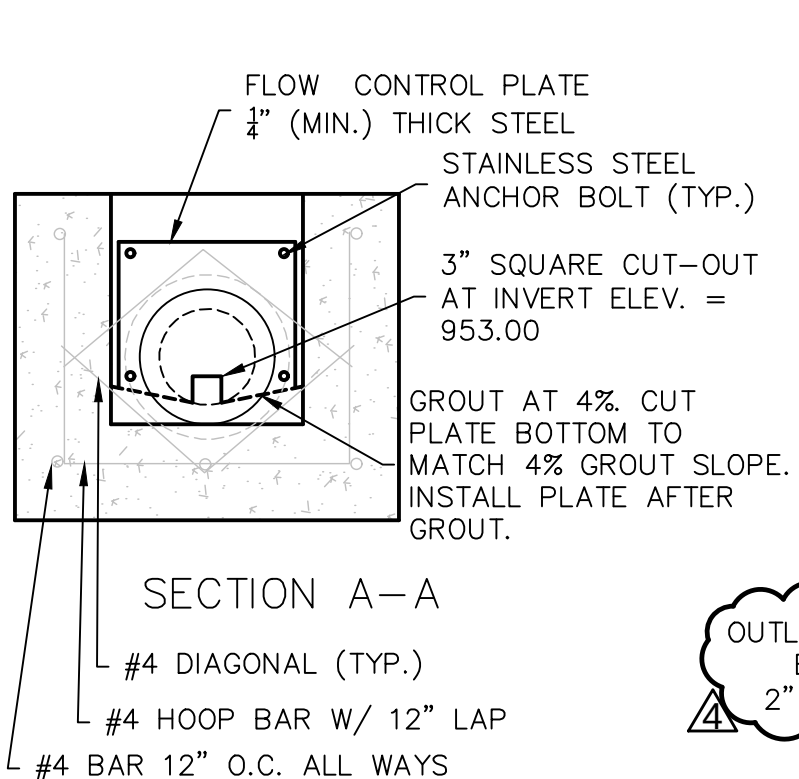
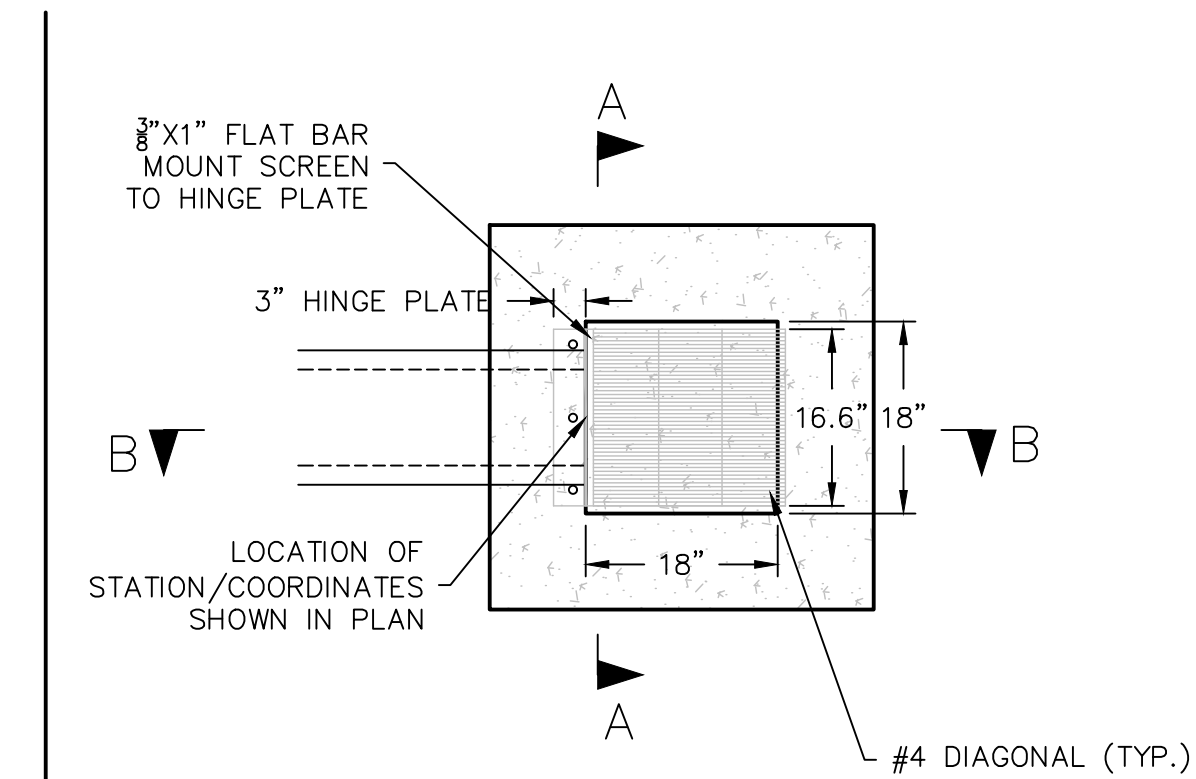
BASIN DETAILS	
SPILLWAY TYPE	BROAD CRESTED WEIR
SPILLWAY LENGTH	65 FT
SPILLWAY ELEVATION	959.00 FT
SPILLWAY DEPTH	1.50 FT
DAM ELEVATION	960.50 FT
BASIN BOTTOM ELEVATION	954.00 FT
WATER QUALITY STORM WATER SURFACE ELEVATION	956.20 FT
DESIGN STORAGE	28,703 CF



NOTE:
SPILLWAY SIZED TO HANDLE 100-YEAR FLOW

Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class* (in)	D50* (ft)	Apron Length (ft)	Apron Depth (ft)
WQy Outlet	12.97	1	5	20	7	3.33
Area (SY)						
						4.1

*Per Table 10.1 HEC-14-FHWA-Energy Dissipators Pg. 10-18



01 N.T.S. WATER QUALITY BASIN OUTLET STRUCTURE

02 N.T.S. RIPRAP OUTLET PROTECTION

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NUMBER
PE-2018021248
5/29/2024

WATER QUALITY BASIN PLAN
STREET & STORM SEWER PLANS
EAGLE CREEK VILLAS
FIRST PLAT
LEE'S SUMMIT, MISSOURI

2023

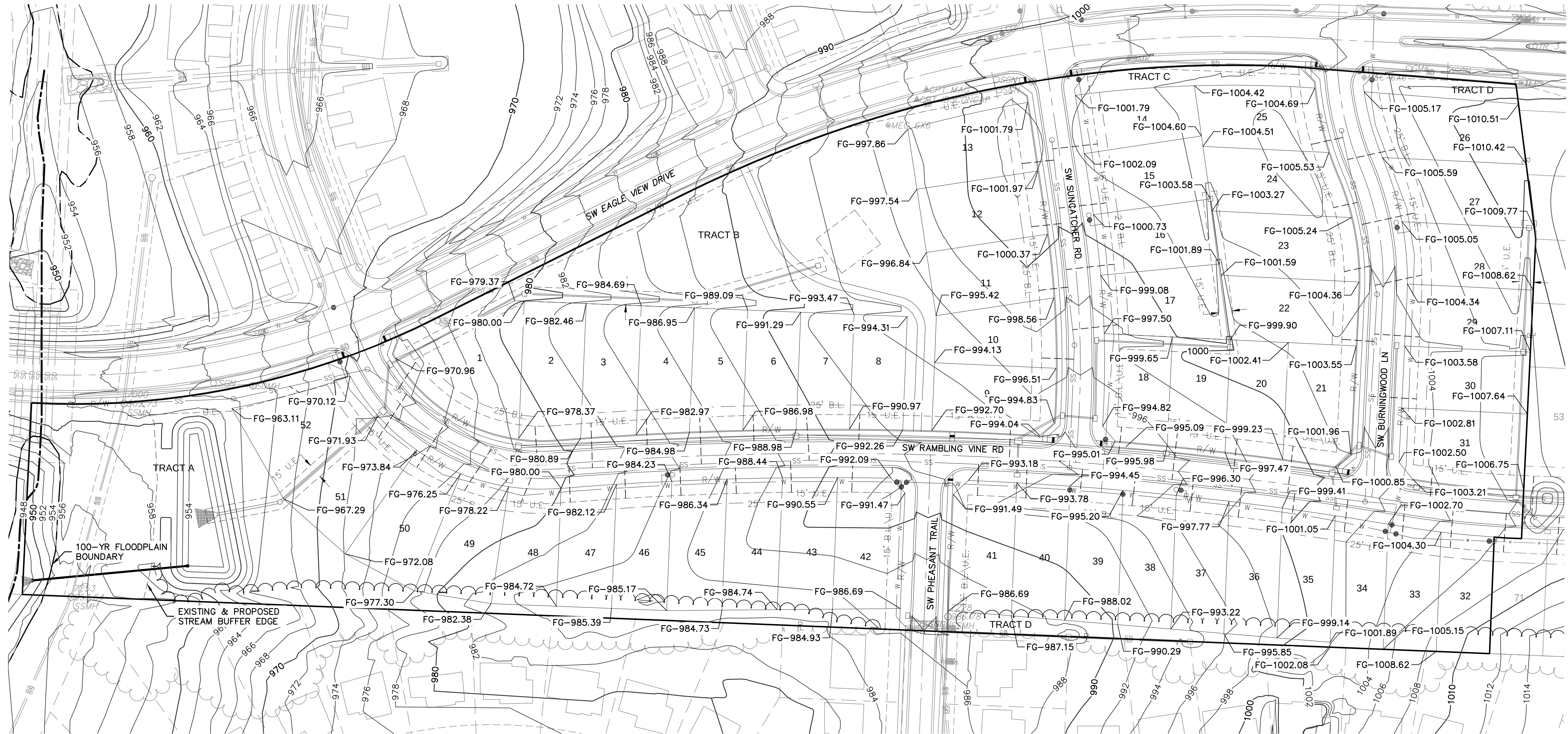
drawn by: _____
checked by: _____
approved by: _____
QA/QC by: _____
project no.: A20-2467
drawing no.: C_DBP01_A202467
date: 02/23/2024

CW
SS
JS
JS

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION
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2	04/02/2024	REVISED PER CITY COMMENTS
3	05/07/2024	REVISED PER CITY COMMENTS
4	05/29/2024	REVISED PER CITY COMMENTS

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1. INDIVIDUAL LOT OWNERS SHALL NOT CHANGE OR OBSTRUCT THE DRAINAGE FLOW LINES OR PATHS ON THE LOTS, AS SHOWN ON THE WATER DRAINAGE PLAN, UNLESS SPECIFIC APPLICATION IS MADE AND APPROVED BY THE CITY ENGINEER.

3. THE STREAM BUFFER EDGE HAS BEEN IDENTIFIED ON THE PLAT WHICH IS LOCATED WITHIN THE BOUNDS OF EAGLE CREEK VILLAS AND OUTSIDE OF PROPOSED SITE IMPROVEMENTS AND PROPOSED LOTS.

5. REFER TO SHEET C106-C110 FOR SWALE GRADING DETAILS.

6. DRAINAGE PATHS TO BE CONSTRUCTED BETWEEN LOTS LABELED AS STANDARD AND/OR UPHILL LOTS.

7. NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.

Eagle Creek Villas 1st Plat			
Minimum Building Opening Elevation			
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan Required
22	1000.50	1002.19	Y
23	1002.19	1003.87	Y
24	1003.87	1005.11	Y
51	972.68	967.89	Y
52	967.89	963.71	Y

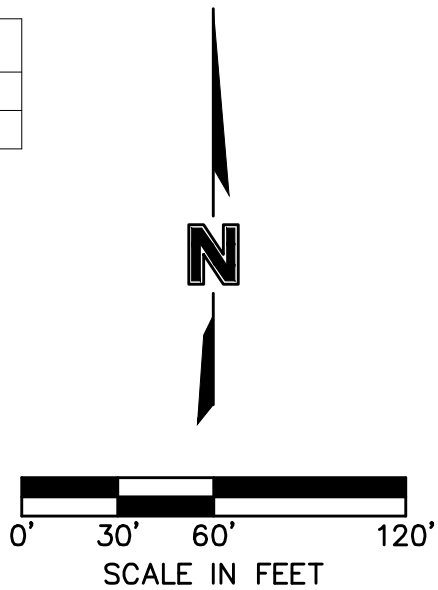
MBOE elevations have been provided per lot lines, facing the lot from the street.

Interpolation will be allowed between the right and left side MBOE's provided, depending on the location of the lowest opening on the proposed structure.

MBOE elevations have been provided per lot lines, facing the lot from the street. Interpolation will be allowed between the right and left side MBOE's provided, depending on the location of the lowest opening on the proposed structure.

FG - FINISHED GRADE

LEGEND	
	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS



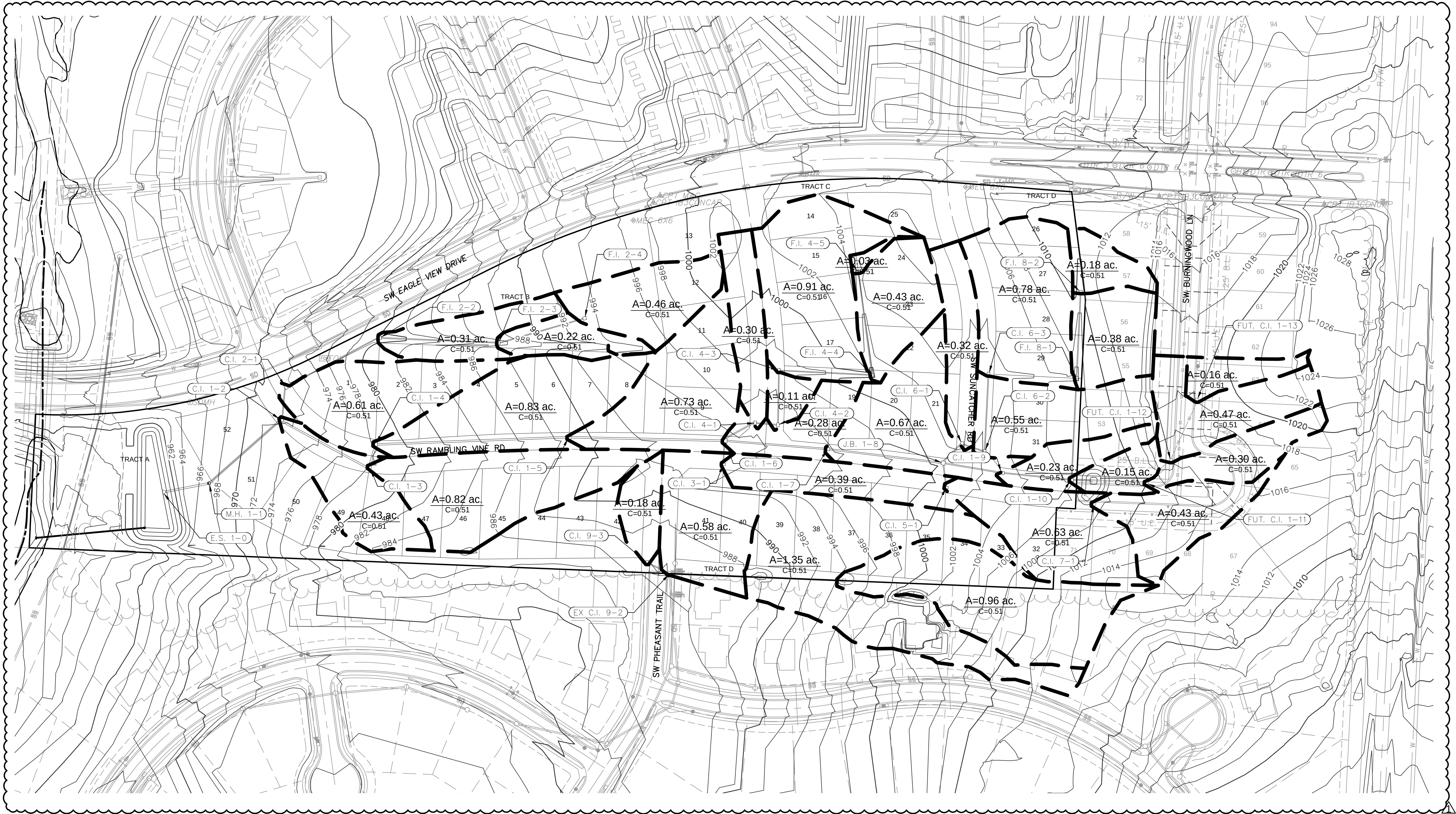
drawn by: _____ CW checked by: _____ SS QA/QC by: _____ JS project no.: _____ A20-2467 drawing no. C. DRN01 A202467 date: 02/23/2024	MASTER DRAINAGE PLAN STREET & STORM SEWER PLANS		REV/ NO.	DATE	REVISIONS DESCRIPTION	BY
			1	02/23/2024	REVISED PER CITY COMMENTS	
			2	04/02/2024	REVISED PER CITY COMMENTS	
EAGLE CREEK VILLAS FIRST PLAT						
LEE'S SUMMIT, MISSOURI		2023				
SHEET C138						



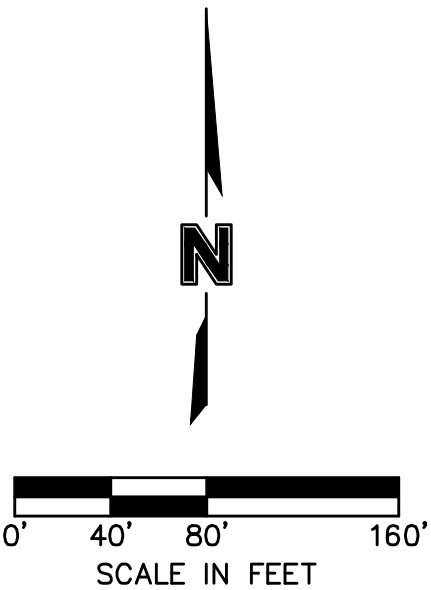
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DATE: May 29, 2024 1:30pm XREFS: C_PUTIL_A202467 C_PBASE_A202467 C_PBASE_A202467 C_PBLK_A202467



LEGEND	
	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS
	RIDGE LINE
	DRAINAGE AREA
	RUNOFF COEFFICIENT
	STORM STRUCTURE NUMBER



DRAINAGE PLAN STREET & STORM SEWER PLANS		REV NO.	DATE	REVISIONS DESCRIPTION	BY
				REVISED PER CITY COMMENTS	
EAGLE CREEK VILLAS FIRST PLAT		1	02/23/2024		
LEE'S SUMMIT, MISSOURI		2023			REVISIONS

drawn by: _____ CW

checked by: _____ SS

approved by: _____ JS

QA/QC by: _____ JS

project no.: A20-2467

drawing no.: C DRN02 A202467

date: 02/23/2024

SHEET
C139

drawn by: _____
checked by: _____
approved by: _____
QA/QC by: _____
project no.: A20-2467
drawing no.: C_DRN02_A202467
date: 02/23/2024

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DATE: May 29, 2024 1:30pm XREFS: C_PUTIL_A202467 C_XBASE_A202467 C_PBASE_A202467 C_PBLK_A202467 C_PSTRM_A202467

Inlet Design Table													
10 Year Return Frequency													
Inlet ID	Inlet Location	Peak Flow	Upstream Bypass	Total Flow	Clogging Factor	Inlet Capacity	Sag Inlet Capacity (Note 1)	Captured Flow	Bypass Flow	Inlet Efficiency (Note 2)	Gutter Depth	Gutter Spread	Ponding Depth
		(cfs)	(cfs)	(cfs)		(cfs)	(cfs)	(cfs)	(cfs)	(%)	(ft)	(ft)	(ft)
C.I. 1-2	GRADE	1.51	0.94	2.45	1.00	1.69	1.69	1.69	0.76	69.13%	0.15	7.31	...
C.I. 1-3	GRADE	2.77	0.00	2.77	1.00	1.83	1.83	1.83	0.94	65.99%	0.15	7.66	...
C.I. 1-4	GRADE	2.66	0.87	3.53	1.00	2.10	2.10	1.43	59.42%	0.17	8.39	...	...
C.I. 1-5	GRADE	2.43	0.22	2.64	1.00	1.78	1.78	1.78	0.87	67.23%	0.15	7.53	...
C.I. 1-6	GRADE	1.05	0.79	1.84	1.00	1.62	1.62	1.62	0.22	88.27%	0.16	8.10	...
C.I. 1-7	GRADE	2.15	0.23	2.38	1.00	1.88	1.88	1.88	0.50	78.95%	0.16	8.10	...
C.I. 1-9	GRADE	0.83	0.56	1.39	1.00	1.16	1.16	1.16	0.23	83.50%	0.12	6.16	...
C.I. 1-10	GRADE	0.56	0.26	0.82	1.00	0.74	0.74	0.74	0.08	90.19%	0.10	5.06	...
C.I. 2-1	GRADE	2.02	0.00	2.02	1.00	1.49	1.49	1.49	0.53	73.64%	0.14	6.80	...
F.I. 2-2	GRADE	1.09	0.00	1.09	1.80	35.34	63.61	1.09	0.00	100.00%	...	...	0.09
F.I. 2-3	GRADE	0.83	0.00	0.83	2.80	45.64	127.80	0.83	0.00	100.00%	...	...	0.08
F.I. 2-4	GRADE	1.57	0.00	1.57	3.80	54.02	205.27	1.57	0.00	100.00%	...	...	0.12
C.I. 3-1	GRADE	1.46	0.71	2.17	1.00	1.87	1.87	1.87	0.30	86.17%	0.17	8.62	...
C.I. 4-1	GRADE	1.13	0.00	1.13	1.00	0.98	0.98	0.98	0.14	87.41%	0.12	5.79	...
C.I. 4-2	GRADE	0.41	0.74	1.15	1.00	1.00	1.00	1.00	0.15	87.15%	0.12	5.84	...
C.I. 4-3	GRADE	2.66	0.00	2.66	1.00	1.92	1.92	1.92	0.74	72.34%	0.16	8.00	...
F.I. 4-4	GRADE	1.61	0.00	1.61	4.80	61.26	294.04	1.61	0.00	100.00%	...	...	0.12
F.I. 4-5	GRADE	0.11	0.00	0.11	5.80	67.73	392.83	0.11	0.00	100.00%	...	...	0.02
C.I. 5-1	GRADE	2.22	0.31	2.53	1.00	1.82	1.82	1.82	0.71	71.98%	0.15	7.71	...
C.I. 6-1	GRADE	1.20	0.00	1.20	1.00	1.11	1.11	1.11	0.09	92.52%	0.14	6.90	...
C.I. 6-2	GRADE	2.01	0.47	2.48	1.00	2.09	2.09	2.09	0.39	84.30%	0.18	9.05	...
C.I. 6-3	GRADE	2.72	0.00	2.72	1.00	2.25	2.25	2.25	0.47	82.85%	0.19	9.37	...
C.I. 7-1	GRADE	1.61	0.00	1.61	1.00	1.31	1.31	1.31	0.31	81.05%	0.13	6.51	...
F.I. 8-1	GRADE	1.43	0.00	1.43	6.80	73.63	500.70	1.43	0.00	100.00%	...	...	0.11
F.I. 8-2	GRADE	0.68	0.00	0.68	7.80	79.10	616.96	0.68	0.00	100.00%	...	...	0.07
EX C.I. 9-2	GRADE	2.18	0.00	2.18	1.00	1.72	1.72	1.72	0.45	79.31%	0.15	7.69	...
C.I. 9-3	GRADE	0.68	0.00	0.68	1.00	0.63	0.63	0.63	0.04	93.66%	0.10	4.96	...
EX. F.I. 10-1	GRADE	5.06	0.00	5.06	8.80	84.21	741.03	5.06	0.00	100.00%	...	...	0.25
EX. F.I. 10-2	GRADE	3.60	0.00	3.60	9.80	89.03	872.46	3.60	0.00	100.00%	...	...	0.20

Notes:

1. Inlet capacity at sag location has been reduced by a clogging factor of 0.80, reducing theoretical capacity to 80% capacity, as required per APWA Section 5600.

Both theoretical capacity and reduced capacity are shown.

2. Inlet efficiency shown in the tables is Captured Flow/Total Flow, denoting the actual percentage of flow captured after the capacity has been reduced to 80% of theoretical capacity.

Drainage Area Design Table						
10 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
C.I. 1-2	0.43	0.51	6.68	6.87	1.00	1.51
C.I. 1-3	0.82	0.51	7.58	6.63	1.00	2.77
C.I. 1-4	0.83	0.51	9.01	6.29	1.00	2.66
C.I. 1-5	0.73	0.51	8.04	6.52	1.00	2.43
C.I. 1-6	0.28	0.51	5.00	7.35	1.00	1.05
C.I. 1-7	0.67	0.51	9.04	6.29	1.00	2.15
C.I. 1-9	0.23	0.51	5.92	7.08	1.00	0.83
C.I. 1-10	0.15	0.51	5.00	7.35	1.00	0.56
C.I. 2-1	0.61	0.51	8.16	6.49	1.00	2.02
F.I. 2-2	0.31	0.51	6.68	6.87	1.00	1.09
F.I. 2-3	0.22	0.51	5.00	7.35	1.00	0.83
F.I. 2-4	0.46	0.51	7.38	6.69	1.00	1.57
C.I. 3-1	0.39	0.51	5.00	7.35	1.00	1.46
C.I. 4-1	0.30	0.51	5.00	7.35	1.00	1.13
C.I. 4-2	0.11	0.51	5.00	7.35	1.00	0.41
C.I. 4-3	0.91	0.51	11.73	5.73	1.00	2.66
F.I. 4-4	0.43	0.51	5.00	7.35	1.00	1.61
F.I. 4-5	0.03	0.51	5.00	7.35	1.00	0.11
C.I. 5-1	0.63	0.51	6.51	6.91	1.00	2.22
C.I. 6-1	0.32	0.51	5.00	7.35	1.00	1.20
C.I. 6-2	0.55	0.51	5.63	7.16	1.00	2.01
C.I. 6-3	0.78	0.51	6.81	6.83	1.00	2.72
C.I. 7-1	0.43	0.51	5.00	7.35	1.00	1.61
F.I. 8-1	0.38	0.51	5.00	7.35	1.00	1.43
F.I. 8-2	0.18	0.51	5.00	7.35	1.00	0.68
EX C.I. 9-2	0.58	0.51	5.00	7.35	1.00	2.18
C.I. 9-3	0.18	0.51	5.00	7.35	1.00	0.68
EX. F.I. 10-1	1.35	0.51	5.00	7.35	1.00	5.06
EX. F.I. 10-2	0.96	0.51	5.00	7.35	1.00	3.60

Storm Sewer Design Calculation Table												
10 Year Return Frequency												
Upstream Structure	Downstream Structure	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)
M.H. 1-1	E.S. 1-0	69.78	955.74	954.00	2.49	30	0.012	39.18	11.74	70.16	1.34	957.85
C.I. 1-2	M.H. 1-1	142.00	964.10	956.34	5.46	30	0.012	39.18	10.76	103.86	1.51	966.21
C.I. 1-3	C.I. 1-2	149.01	969.15	964.70	2.99	30	0.012	32.51	9.22	76.78	1.51	971.09
C.I. 1-4	C.I. 1-3	36.24	970.81	969.75	2.93	30	0.012	30.68	9.59	75.99	1.34	972.7
C.I. 1-5	C.I. 1-4	286.78	980.04	971.41	3.01	30	0.012	28.58	9.35	77.07	1.29	981.86
C.I. 1-6	C.I. 1-5	229.91	984.10	980.65	1.50	30	0.012	26.8	9.14	54.43	1.24	985.86
C.I. 1-7	C.I. 1-6	153.32	987.77	984.70	2.00	24	0.012	17.69	8.13	34.67	1.16	989.28
J.B. 1-8	C.I. 1-7	172.32	994.40	988.37	3.50	24	0.012	15.81	8.93	45.84	0.91	995.83
C.I. 1-9	J.B. 1-8	88.64	996.98	995.00	2.23	18	0.012	8.54	7.23	17	0.83	998.11
C.I. 1-10	C.I. 1-9	103.10	999.04	997.58	1.42	18	0.012	7.38	6.7	13.54	0.79	1000.09
FUT. C.I. 1-11	C.I. 1-10	75.57	1003.42	999.64	5.00	15	0.012	3.22	6.22	15.65	0.45	1004.14
FUT. 1-12	FUT. C.I. 1-11	49.45	1007.65	1005.77	3.80	12	0.012	2.14	6.2	7.52	0.37	1008.28
FUT. C.I. 1-13	FUT. 1-12	97.39	1009.71	1008.25	1.50	12	0.012	0.58	3.4	4.72	0.24	1010.03
C.I. 2-1	C.I. 1-2	48.98	966.25	965.35	1.84	15	0.012	4.98	5.39	9.48	0.86	967.15
F.I. 2-2	C.I. 2-1	156.61	972.71	966.85	3.74	15	0.012	3.49	6.88	13.53	0.43	973.46
F.I. 2-3	F.I. 2-2	176.00	979.47	973.31	3.50	15	0.012	2.4	6.04	13.09	0.36	980.09
F.I. 2-4	F.I. 2-3	132.53	985.85	980.07	4.36	15	0.012	1.57	5.62	14.61	0.28	986.35
C.I. 3-1	C.I. 1-6	35.00	989.40	988.87	1.51	15	0.012	1.87	4.63	8.61	0.4	989.94
C.I. 4-1	C.I. 1-6	52.51	986.14	985.10	1.98	18	0.012	5.62	5.6	16.01	0.76	987.05
C.I. 4-2	C.I. 4-1	34.01	987.25	986.74	1.50	15	0.012	4.64	6.09	8.57	0.66	988.12
C.I. 4-3	C.I. 4-2	80.55	989.06	987.85	1.50	15	0.012	3.64	5.64	8.57	0.57	989.83
F.I. 4-4	C.I. 4-3	138.04	993.46	989.66	2.75	15	0.012	1.72	5.16	11.61	0.33	993.98
F.I. 4-5	F.I. 4-4	154.29	998.30	994.06	2.75	15	0.012	0.11	2.32	11.6	0.09	998.43
C.I. 5-1	J.B. 1-8	36.34	996.49	995.15	3.69	15	0.012	1.82	3.14	13.43	0.68	997.03 j
C.I. 6-1	J.B. 1-8	39.78	996.00	995.15	2.14	15	0.012	5.45	6.71	10.23	0.68	996.95
C.I. 6-2	C.I. 6-1	35.35	997.12	996.60	1.47	15	0.012	4.34	5.94	8.48	0.63	997.96
C.I. 6-3	C.I. 6-2	114.75	999.04	997.72	1.15	15	0.012	2.25	4.61	7.5	0.47	999.64
C.I. 7-1	C.I. 1-10	48.58	1003.15	1002.01	2.35	15	0.012	1.31	4.6	10.72	0.3	1003.6
F.I. 8-1	C.I. 1-10	150.33	1001.44	999.64	1.20	15	0.012	2.11	4.54	7.65	0.45	1002.02
F.I. 8-2	F.I. 8-1	128.00	1004.60	1002.04	2.00	15	0.012	0.68	3.67	9.89	0.22	1004.92
EX C.I. 9-2	EX C.I. 9-1	162.08	979.91	977.48	1.50	18	0.012	2.35	4.77	13.93	0.42	980.49
C.I. 9-3	EX C.I. 9-2	37.24	982.40	981.84	1.50	15	0.012	0.63	3.37	8.58	0.23	982.71

olsson

Olsson - Civil Engineering
Missouri Certificate of Authority #001592
1301 Burlington Street
North Kansas City, MO 64116
TEL 816.361.1177 www.olsson.com

STATE OF MISSOURI
STEPHEN M. SAYLOR
NUMBER
PE-2018021248
5/29/2024

BY
REV. NO. 1
DATE 02/23/2024
REVISIONS DESCRIPTION
REVISED PER CITY COMMENTS

REVISIONS

DRAINAGE TABLES (10-YEAR)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

drawn by: _____ CW
checked by: _____ SS
approved by: _____ JS
QA/QC by: _____ JS
project no.: A20-2467
drawing no.: C_DRN02_A202467
date: 02/23/2024

SHEET
C140

2023

DWG: F:\2020\2001-2500\020-2467-A\40-Design\AutoCAD\Final Plans\Sheets\GNCV\Street & Storm\C_DRN02_A202467.dwg USER: smorsh
DATE: May 29, 2024 1:30pm XREFS: C_PUTIL_A202467 C_XBASE_A202467 C_PBASE_A202467 C_PTBK_A202467 C_PSTRM_A202467

Inlet Design Table													
100 Year Return Frequency													
Inlet ID	Inlet Location	Peak Flow	Upstream Bypass	Total Flow	Clogging Factor	Inlet Capacity	Sag Inlet Capacity (Note 1)	Captured Flow	Bypass Flow	Inlet Efficiency (Note 2)	Gutter Depth	Gutter Spread	Ponding Depth
		(cfs)	(cfs)	(cfs)		(cfs)	(cfs)	(cfs)	(cfs)	(%)	(ft)	(ft)	(ft)
C.I. 1-2	GRADE	2.65	2.45	5.10	1.00	2.48	2.48	2.48	2.62	48.56%	0.19	9.63	...
C.I. 1-3	GRADE	4.89	0.00	4.89	1.00	2.44	2.44	2.44	2.45	49.85%	0.19	9.48	...
C.I. 1-4	GRADE	4.70	3.17	7.87	1.00	2.81	2.81	2.81	5.06	35.67%	0.23	11.33	...
C.I. 1-5	GRADE	4.28	1.47	5.75	1.00	2.58	2.58	2.58	3.17	44.92%	0.20	10.08	...
C.I. 1-6	GRADE	1.84	3.18	5.02	1.00	3.55	3.55	3.55	1.47	70.64%	0.24	11.80	...
C.I. 1-7	GRADE	3.79	1.30	5.09	1.00	3.11	3.11	3.11	1.99	61.01%	0.22	10.78	...
C.I. 1-9	GRADE	1.46	2.10	3.56	1.00	2.25	2.25	2.25	1.30	63.40%	0.18	8.76	...
C.I. 1-10	GRADE	0.99	0.91	1.89	1.00	1.48	1.48	1.48	0.41	78.10%	0.14	6.92	...
C.I. 2-1	GRADE	3.56	0.00	3.56	1.00	2.11	2.11	2.11	1.45	59.18%	0.17	8.42	...
F.I. 2-2	GRADE	1.91	0.00	1.91	1.80	35.34	63.61	1.91	0.00	100.00%	...	...	0.13
F.I. 2-3	GRADE	1.45	0.00	1.45	2.80	45.64	127.80	1.45	0.00	100.00%	...	...	0.11
F.I. 2-4	GRADE	2.76	0.00	2.76	3.80	54.02	205.27	2.76	0.00	100.00%	...	...	0.17
C.I. 3-1	GRADE	2.57	2.15	4.71	1.00	3.40	3.40	3.40	1.31	72.12%	0.23	11.52	...
C.I. 4-1	GRADE	1.97	0.00	1.97	1.00	1.55	1.55	1.55	0.42	78.59%	0.14	7.15	...
C.I. 4-2	GRADE	0.72	2.01	2.73	1.00	1.96	1.96	1.96	0.77	71.75%	0.16	8.08	...
C.I. 4-3	GRADE	4.71	0.00	4.71	1.00	2.70	2.70	2.70	2.01	57.41%	0.20	9.91	...
F.I. 4-4	GRADE	2.83	0.00	2.83	4.80	61.26	294.04	2.83	0.00	100.00%	...	...	0.17
F.I. 4-5	GRADE	0.20	0.00	0.20	5.80	67.73	392.83	0.20	0.00	100.00%	...	...	0.03
C.I. 5-1	GRADE	3.91	0.87	4.78	1.00	2.63	2.63	2.63	2.15	55.04%	0.20	9.78	...
C.I. 6-1	GRADE	2.11	0.00	2.11	1.00	1.82	1.82	1.82	0.28	86.58%	0.17	8.52	...
C.I. 6-2	GRADE	3.53	1.35	4.88	1.00	3.48	3.48	3.48	1.40	71.32%	0.23	11.67	...
C.I. 6-3	GRADE	4.78	0.00	4.78	1.00	3.43	3.43	3.43	1.35	71.78%	0.23	11.59	...
C.I. 7-1	GRADE	2.83	0.00	2.83	1.00	1.96	1.96	1.96	0.87	69.29%	0.16	8.04	...
F.I. 8-1	GRADE	2.50	0.00	2.50	6.80	73.63	500.70	2.50	0.00	100.00%	...	...	0.16
F.I. 8-2	GRADE	1.18	0.00	1.18	7.80	79.10	616.96	1.18	0.00	100.00%	...	...	0.10
EX C.I. 9-2	GRADE	3.82	0.00	3.82	1.00	2.55	2.55	2.55	1.26	66.87%	0.19	9.49	...
C.I. 9-3	GRADE	1.18	0.00	1.18	1.00	1.05	1.05	1.05	0.14	88.42%	0.12	6.12	...
EX. F.I. 10-1	GRADE	8.88	0.00	8.88	8.80	84.21	741.03	8.88	0.00	100.00%	...	...	0.37
EX. F.I. 10-2	GRADE	6.32	0.00	6.32	9.80	89.03	872.46	6.32	0.00	100.00%	...	...	0.29

Notes:
1. Inlet capacity at sag location has been reduced by a clogging factor of 0.80, reducing theoretical capacity to 80% capacity, as required per APWA Section 5600.
Both theoretical capacity and reduced capacity are shown.
2. Inlet efficiency shown in the tables is Captured Flow/Total Flow, denoting the actual percentage of flow captured after the capacity has been reduced to 80% of theoretical capacity.

Drainage Area Design Table						
100 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
C.I. 1-2	0.43	0.51	6.68	9.67	1.25	2.65
C.I. 1-3	0.82	0.51	7.58	9.35	1.25	4.89
C.I. 1-4	0.83	0.51	9.01	8.89	1.25	4.70
C.I. 1-5	0.73	0.51	8.04	9.20	1.25	4.28
C.I. 1-6	0.28	0.51	5.00	10.32	1.25	1.84
C.I. 1-7	0.67	0.51	9.04	8.88	1.25	3.79
C.I. 1-9	0.23	0.51	5.92	9.95	1.25	1.46
C.I. 1-10	0.15	0.51	5.00	10.32	1.25	0.99
C.I. 2-1	0.61	0.51	8.16	9.16	1.25	3.56
F.I. 2-2	0.31	0.51	6.68	9.67	1.25	1.91
F.I. 2-3	0.22	0.51	5.00	10.32	1.25	1.45
F.I. 2-4	0.46	0.51	7.38	9.42	1.25	2.76
C.I. 3-1	0.39	0.51	5.00	10.32	1.25	2.57
C.I. 4-1	0.30	0.51	5.00	10.32	1.25	1.97
C.I. 4-2	0.11	0.51	5.00	10.32	1.25	0.72
C.I. 4-3	0.91	0.51	11.73	8.12	1.25	4.71
F.I. 4-4	0.43	0.51	5.00	10.32	1.25	2.83
F.I. 4-5	0.03	0.51	5.00	10.32	1.25	0.20
C.I. 5-1	0.63	0.51	6.51	9.73	1.25	3.91
C.I. 6-1	0.32	0.51	5.00	10.32	1.25	2.11
C.I. 6-2	0.55	0.51	5.63	10.07	1.25	3.53
C.I. 6-3	0.78	0.51	6.81	9.62	1.25	4.78
C.I. 7-1	0.43	0.51	5.00	10.32	1.25	2.83
F.I. 8-1	0.38	0.51	5.00	10.32	1.25	2.50
F.I. 8-2	0.18	0.51	5.00	10.32	1.25	1.18
EX C.I. 9-2	0.58	0.51	5.00	10.32	1.25	3.82
C.I. 9-3	0.18	0.51	5.00	10.32	1.25	1.18
EX. F.I. 10-1	1.35	0.51	5.00	10.32	1.25	8.88
EX. F.I. 10-2	0.96	0.51	5.00	10.32	1.25	6.32

Storm Sewer Design Calculation Table												
100 Year Return Frequency												
Upstream Structure	Downstream Structure	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)
M.H. 1-1	E.S. 1-0	69.78	955.74	954.00	2.49	30	0.012	63.78	14.66	70.16	1.87	958.15
C.I. 1-2	M.H. 1-1	142.00	964.10	956.34	5.46	30	0.012	63.78	14.92	103.86	1.81	966.51
C.I. 1-3	C.I. 1-2	149.01	969.15	964.70	2.99	30	0.012	53.07	12.52	76.78	1.81	971.48
C.I. 1-4	C.I. 1-3	36.24	970.81	969.75	2.93	30	0.012	50.63	12.31	75.99	1.73	973.12
C.I. 1-5	C.I. 1-4	286.78	980.04	971.41	3.01	30	0.012	47.82	11.81	77.07	1.71	982.31
C.I. 1-6	C.I. 1-5	229.91	984.10	980.65	1.50	30	0.012	45.24	11.1	54.43	1.74	986.33
C.I. 1-7	C.I. 1-6	153.32	987.77	984.70	2.00	24	0.012	29.05	10.1	34.67	1.63	989.62
J.B. 1-8	C.I. 1-7	172.32	994.40	988.37	3.50	24	0.012	25.94	10.68	45.84	1.25	996.18
C.I. 1-9	J.B. 1-8	88.64	996.98	995.00	2.23	18	0.012	14.58	9.13	17	1.18	998.38
C.I. 1-10	C.I. 1-9	103.10	999.04	997.58	1.42	18	0.012	12.33	8.07	13.54	1.12	1000.37
FUT. C.I. 1-11	C.I. 1-10	75.57	1003.42	999.64	5.00	15	0.012	5.21	6.2	15.65	0.73	1004.35
FUT. 1-12	FUT. C.I. 1-11	49.45	1007.65	1005.77	3.80	12	0.012	3.48	7.29	7.52	0.48	1008.45
FUT. C.I. 1-13	FUT. 1-12	97.39	1009.71	1008.25	1.50	12	0.012	0.98	3.96	4.72	0.31	1010.13
C.I. 2-1	C.I. 1-2	48.98	966.25	965.35	1.84	15	0.012	8.23	6.99	9.48	1.16	967.37 j
F.I. 2-2	C.I. 2-1	156.61	972.71	966.85	3.74	15	0.012	6.12	8.28	13.53	0.59	973.71
F.I. 2-3	F.I. 2-2	176.00	979.47	973.31	3.50	15	0.012	4.21	7.18	13.09	0.49	980.3
F.I. 2-4	F.I. 2-3	132.53	985.85	980.07	4.36	15	0.012	2.76	6.64	14.61	0.37	986.52
C.I. 3-1	C.I. 1-6	35.00	989.40	988.87	1.51	15	0.012	3.4	5.54	8.61	0.55	990.14
C.I. 4-1	C.I. 1-6	52.51	986.14	985.10	1.98	18	0.012	9.24	6.1	16.01	1.23	987.31 j
C.I. 4-2	C.I. 4-1	34.01	987.25	986.74	1.50	15	0.012	7.69	7.31	8.57	0.93	988.35
C.I. 4-3	C.I. 4-2	80.55	989.06	987.85	1.50	15	0.012	5.73	6.55	8.57	0.75	990.03
F.I. 4-4	C.I. 4-3	138.04	993.46	989.66	2.75	15	0.012	3.03	6.12	11.61	0.44	994.16
F.I. 4-5	F.I. 4-4	154.29	998.30	994.06	2.75	15	0.012	0.2	2.76	11.6	0.11	998.47
C.I. 5-1	J.B. 1-8	36.34	996.49	995.15	3.69	15	0.012	2.63	3.25	13.43	1.03	997.14 j
C.I. 6-1	J.B. 1-8	39.78	996.00	995.15	2.14	15	0.012	8.73	7.73	10.23	1.03	997.15
C.I. 6-2	C.I. 6-1	35.35	997.12	996.60	1.47	15	0.012	6.91	6.98	8.48	0.86	998.17
C.I. 6-3	C.I. 6-2	114.75	999.04	997.72	1.15	15	0.012	3.43	5.23	7.5	0.59	999.79
C.I. 7-1	C.I. 1-10	48.58	1003.15	1002.01	2.35	15	0.012	1.96	5.17	10.72	0.36	1003.71
F.I. 8-1	C.I. 1-10	150.33	1001.44	999.64	1.20	15	0.012	3.68	4.79	7.65	0.73	1002.21
F.I. 8-2	F.I. 8-1	128.00	1004.60	1002.04	2.00	15	0.012	1.18	4.3	9.89	0.29	1005.03
EX C.I. 9-2	EX C.I. 9-1	162.08	979.91	977.48	1.50	18	0.012	3.6	5.44	13.93	0.52	980.63
C.I. 9-3	EX C.I. 9-2	37.24	982.40	981.84	1.50	15	0.012	1.05	3.9	8.58	0.3	982.8

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North Kansas City MO 64116
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PE-2018021248
PROFESSIONAL ENGINEER

5/29/2024

BY

REV. NO.

DATE

REVISIONS DESCRIPTION

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02/23/2024

REVISED PER CITY COMMENTS

2023

REVISIONS

DRAINAGE TABLES (100-YEAR)
STREET & STORM SEWER PLANS

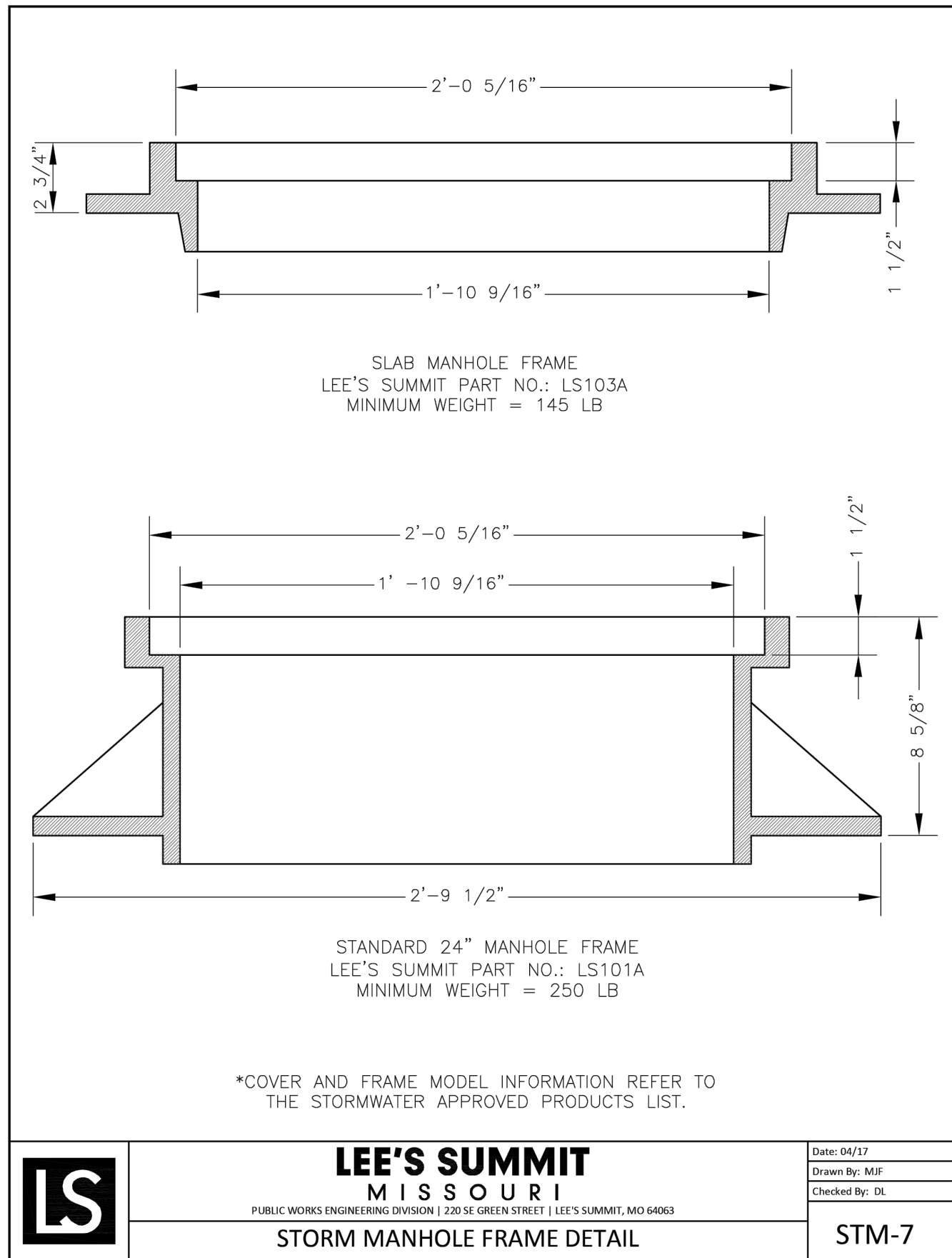
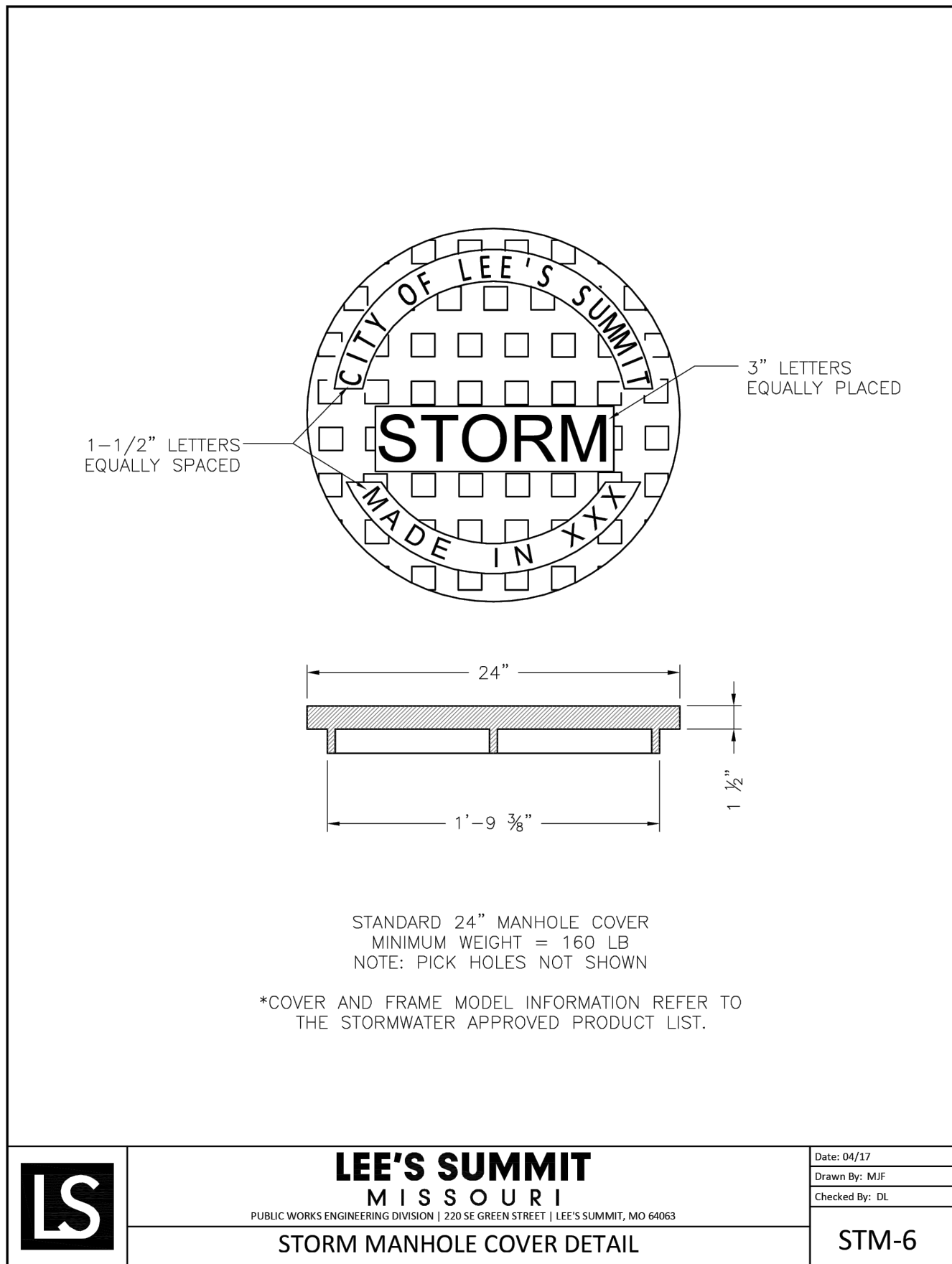
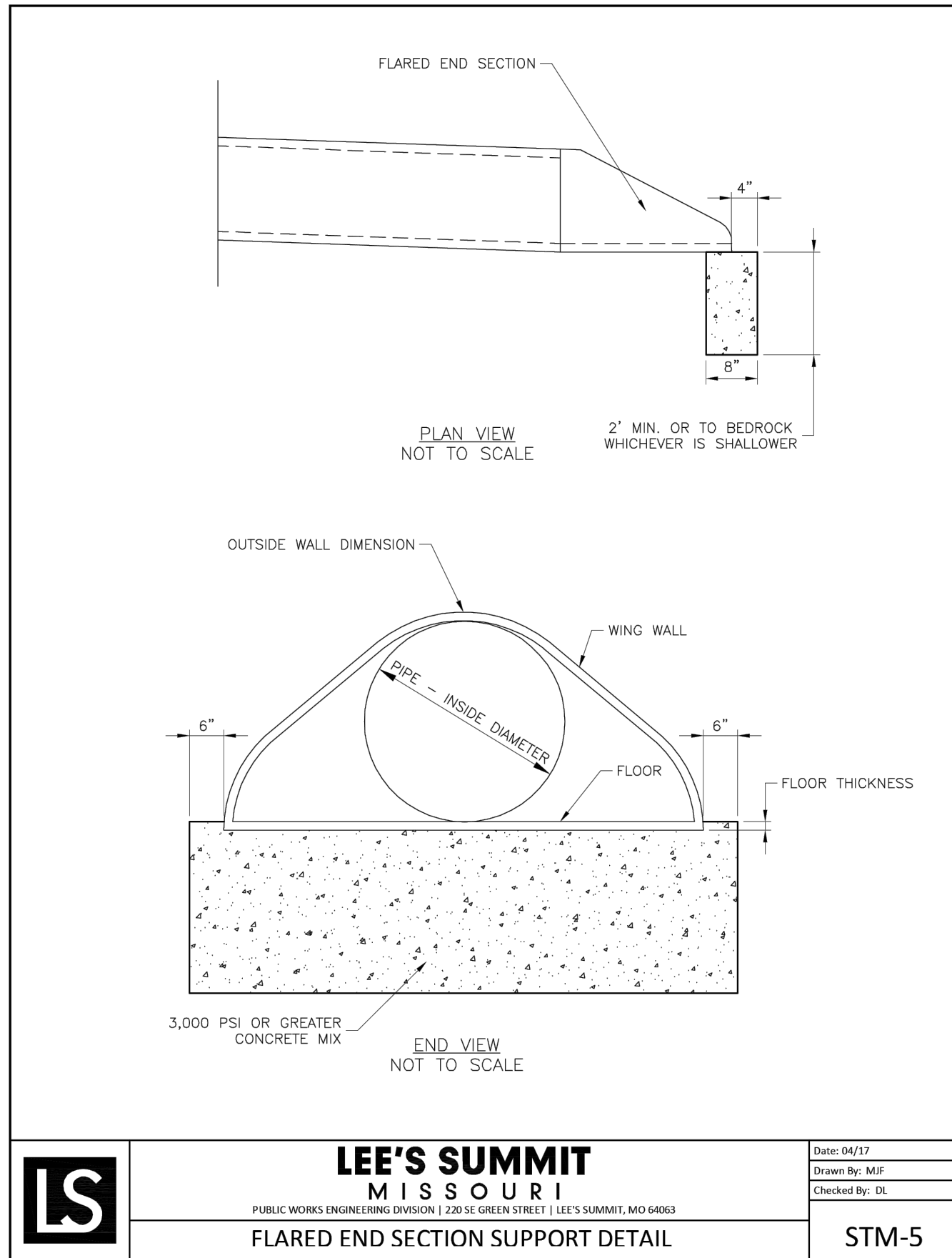
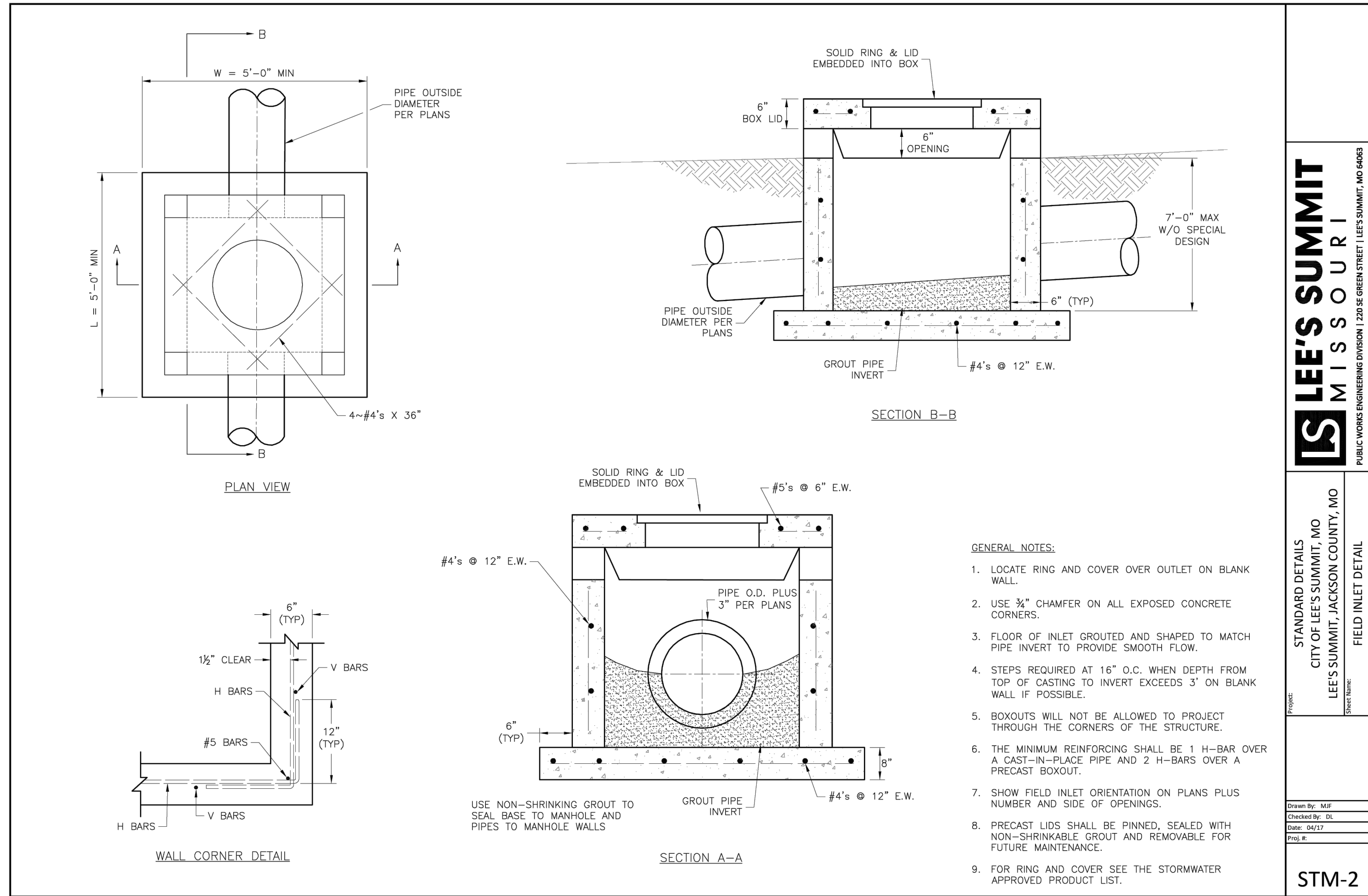
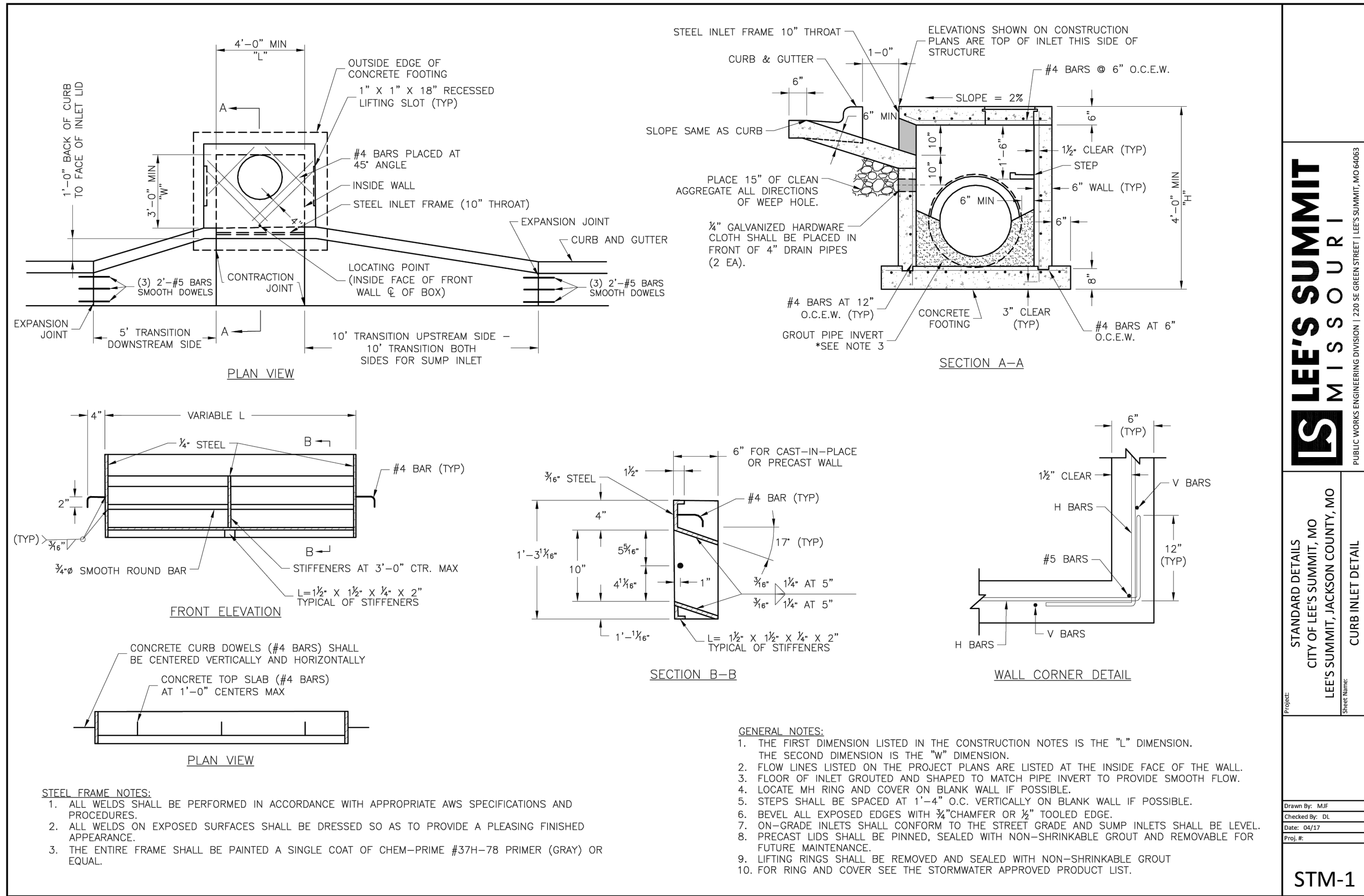
EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

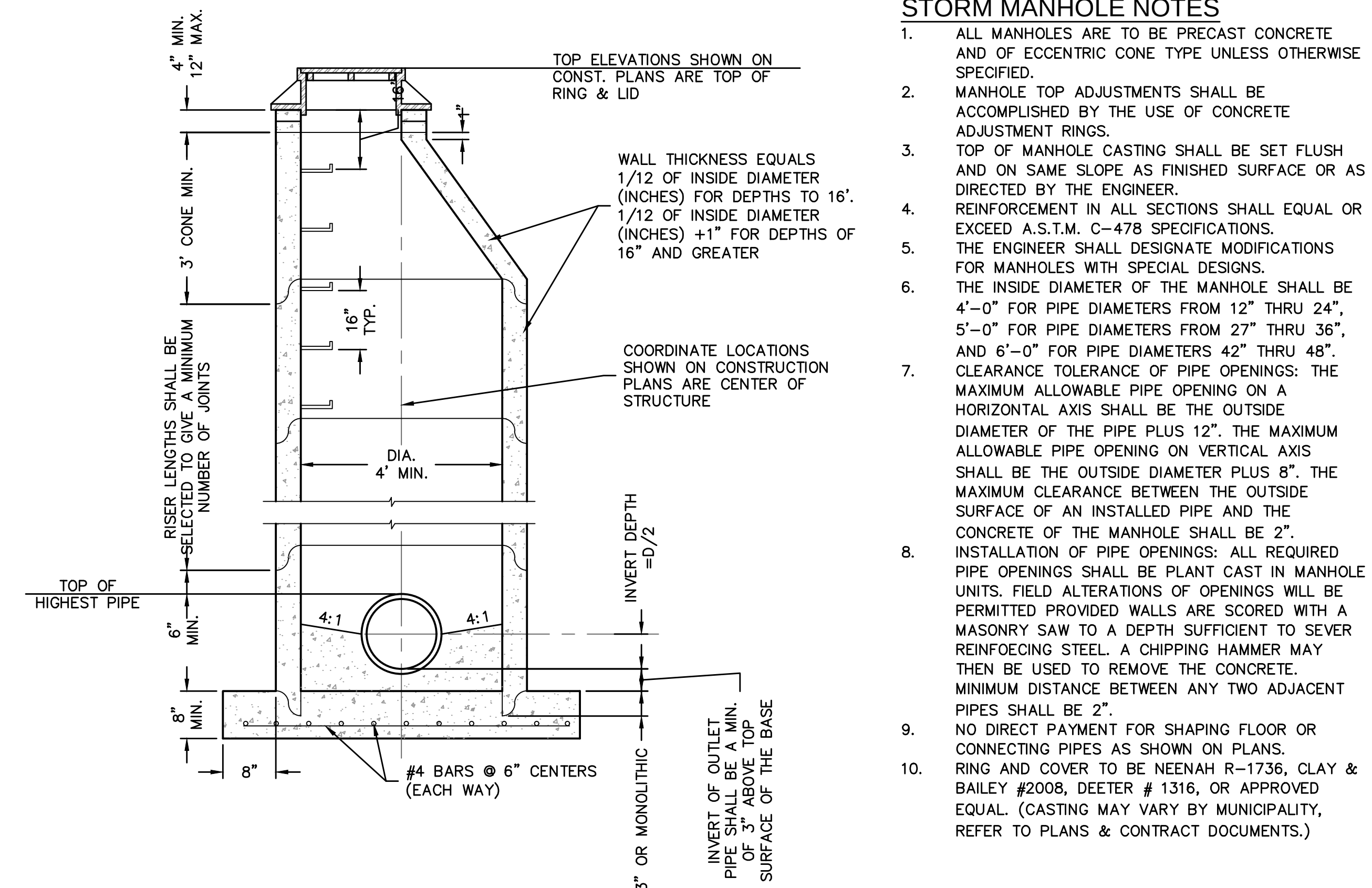
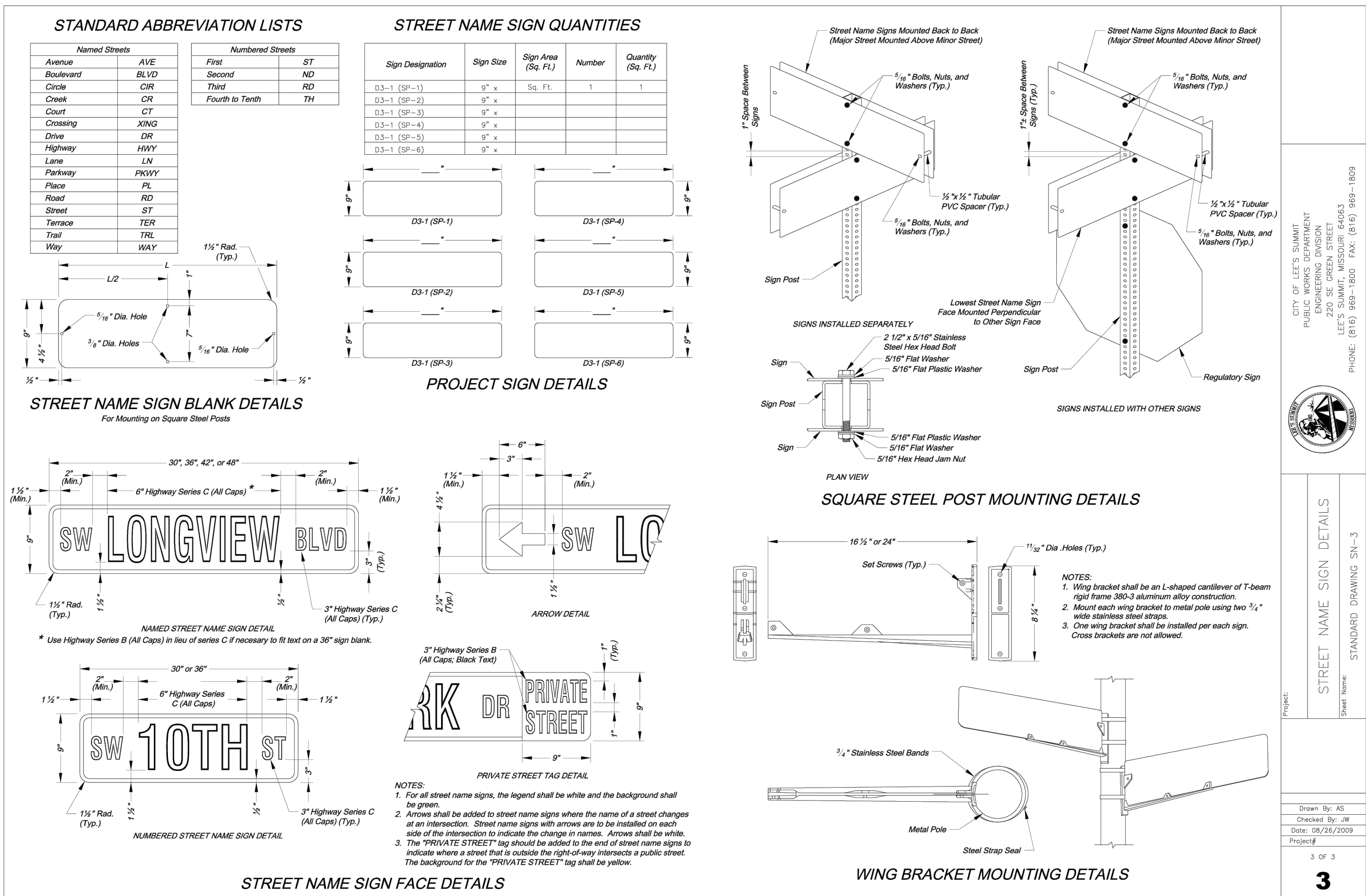
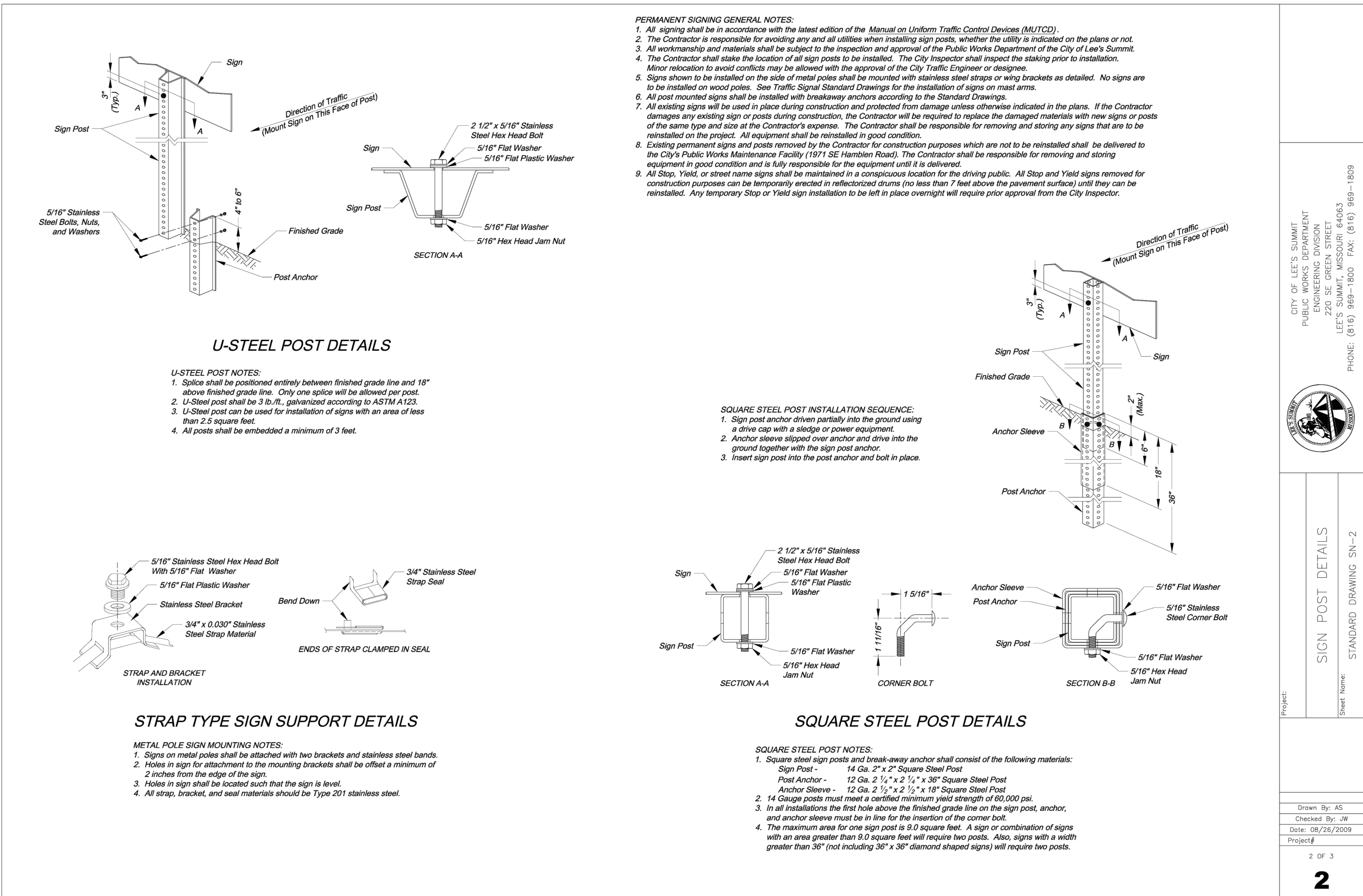
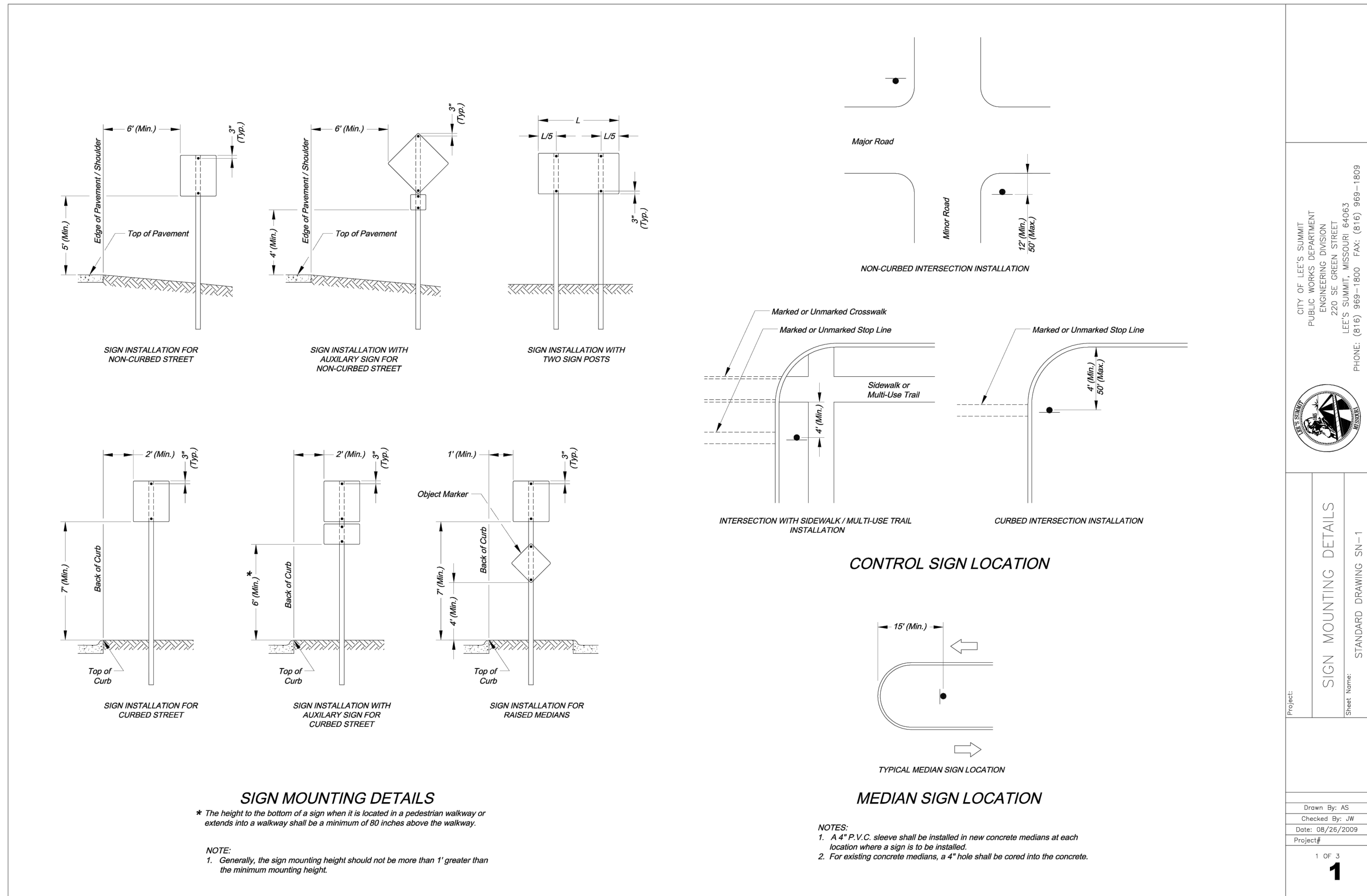
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checked by: _____
approved by: _____
QA/QC by: _____
project no.: _____
drawing no.: _____
date: _____

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02/23/2024

SHEET
C141



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REV. NO.	DATE	REVISIONS DESCRIPTION	BY		
DETAIL SHEET STREET & STORM SEWER PLANS					
EAGLE CREEK VILLAS FIRST PLAT					
LEE'S SUMMIT, MISSOURI			2023		
drawn by: _____ checked by: _____ B.M.W./A.A. approved by: _____ B.M.W./A.A. QA/QC by: _____ B.M.W./A.A. project no.: _____ J.E.S. drawing no.: B19-4061 date: 01-08-2021					
SHEET C143					



STANDARD PRECAST STORM SEWER MANHOLE