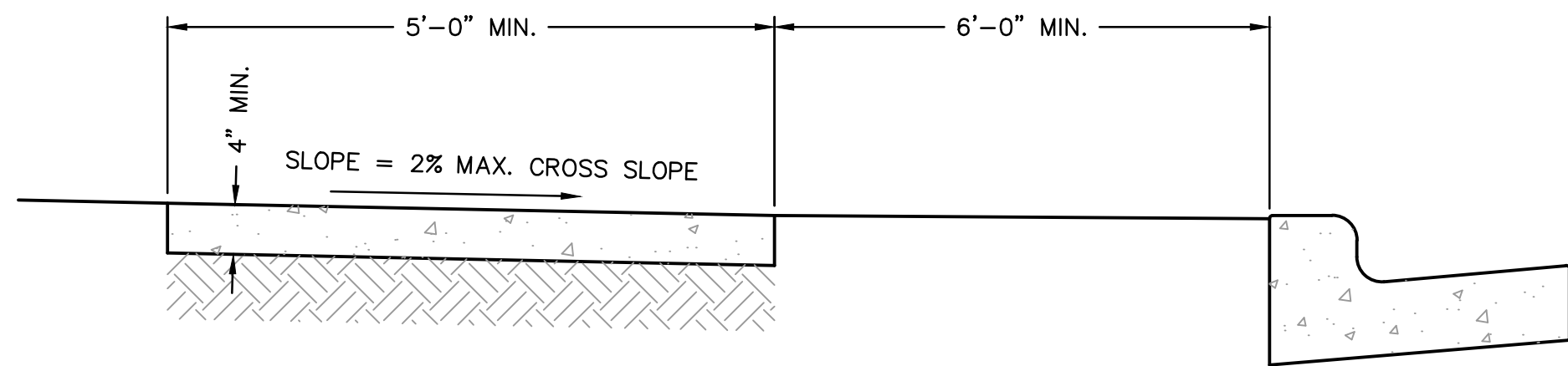




SHEET
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USER: cwoodward
67 C_PBN DY_

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

SHEET
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REVISIONS

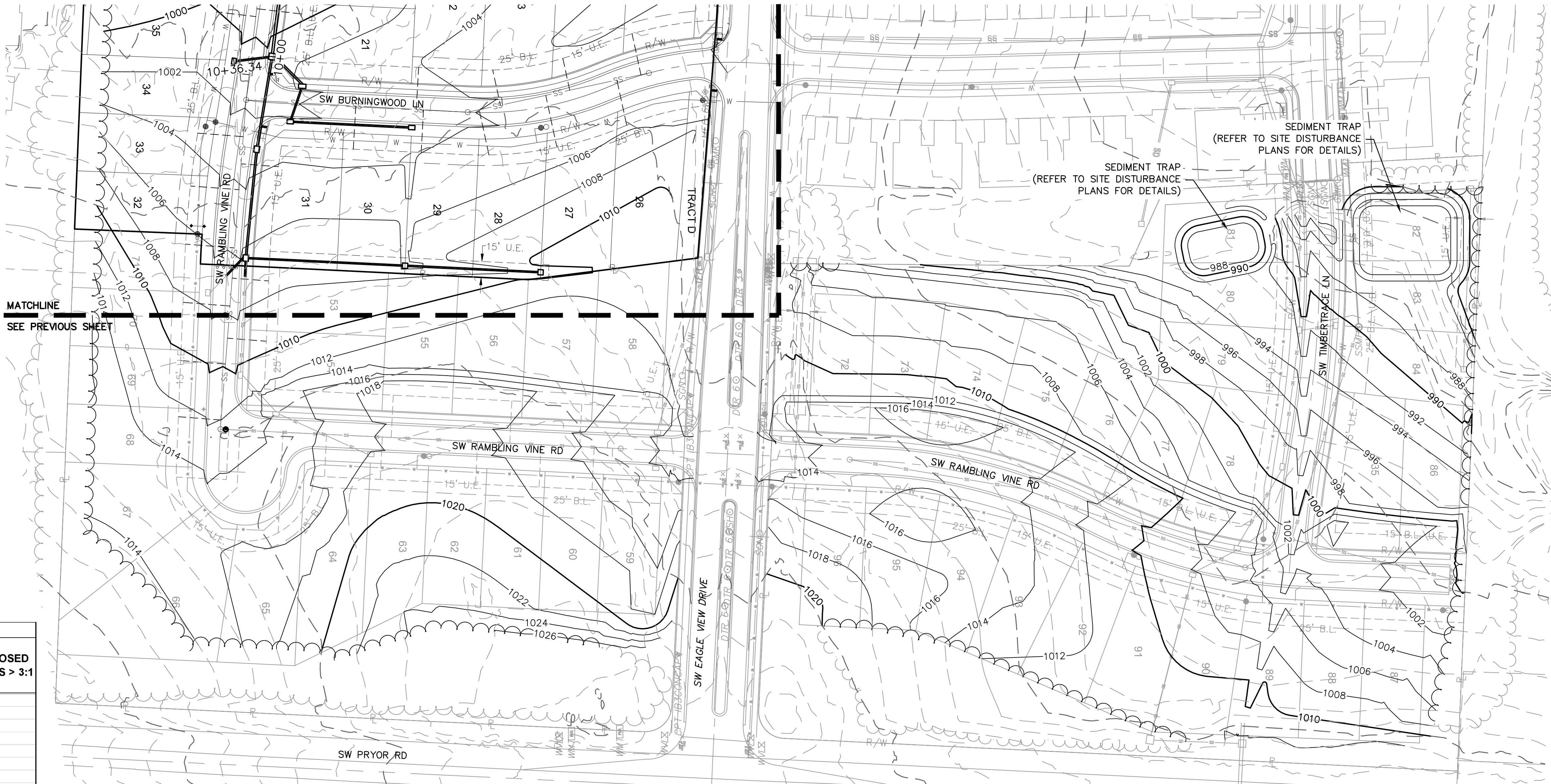


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LOT FILL INFORMATION			
LOT NUMBER	MAX DEPTH OF FILL (OVER 2' PLACED)	FILL PLACED ON EXISTING SLOPES > 5:1	PROPOSED SLOPES > 3:1
53			
54			
55			
56			
57		X	
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
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:

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.

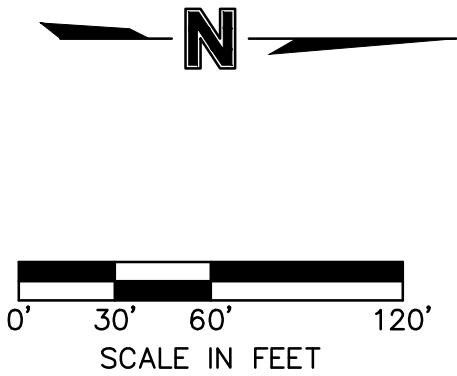
EARTHWORK QUANTITIES		
LOCATION	CUT (C.Y.)	FILL (C.Y.)
STREET	10,618	1,039
SITE	68,486	40,278
TOTAL	79,104	41,317

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



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

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

BY

REVISIONS DESCRIPTION

REV. 11/01

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SECTION



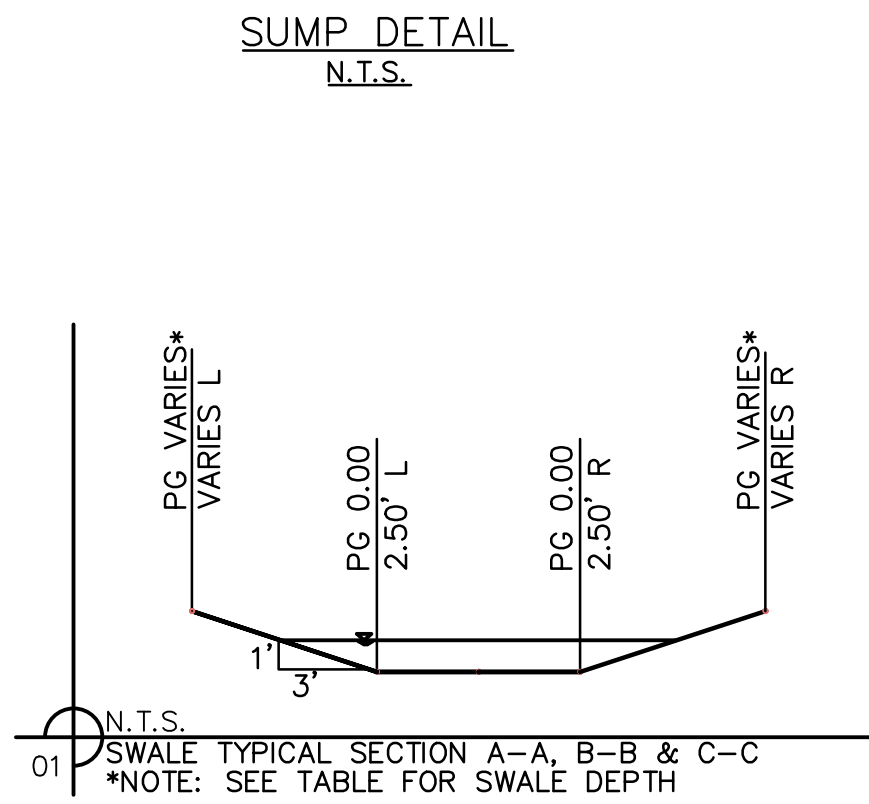
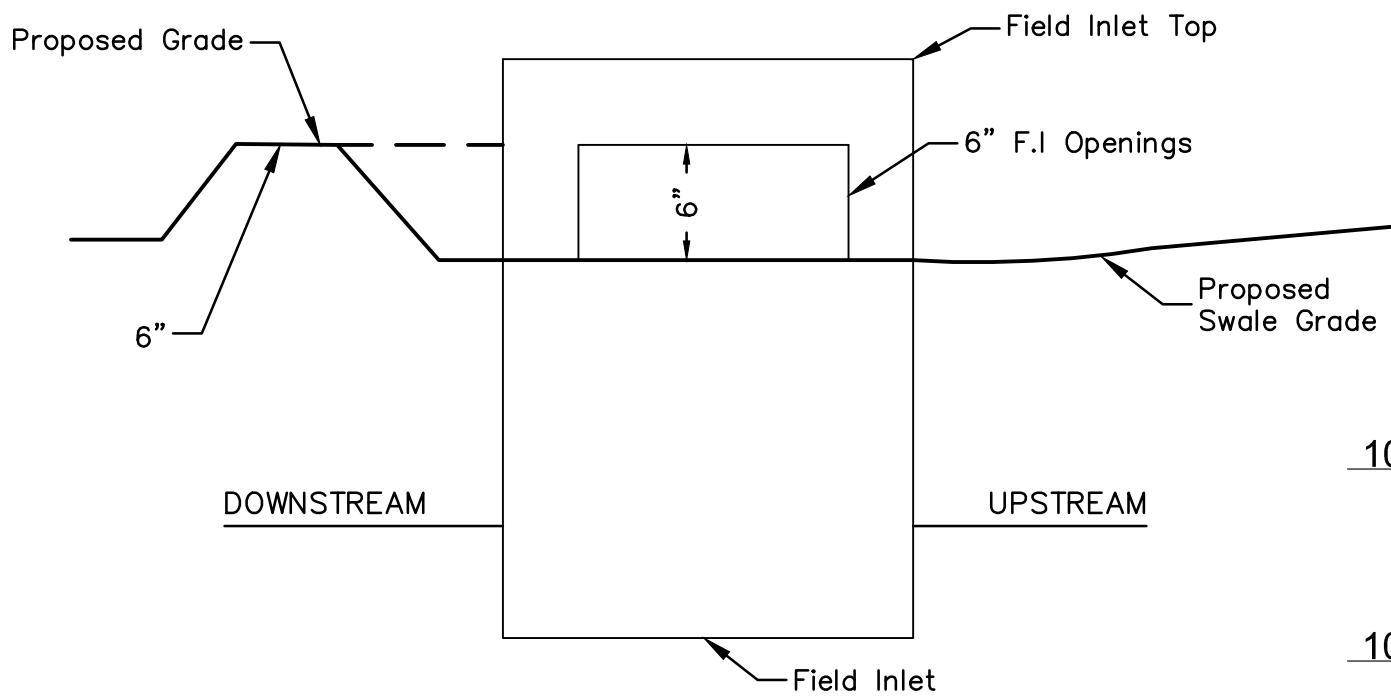
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1301 Burlington Street
North Kansas City, MO 64116

301 Burlington Street
North Kansas City, MO 64116

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ansas City, MO

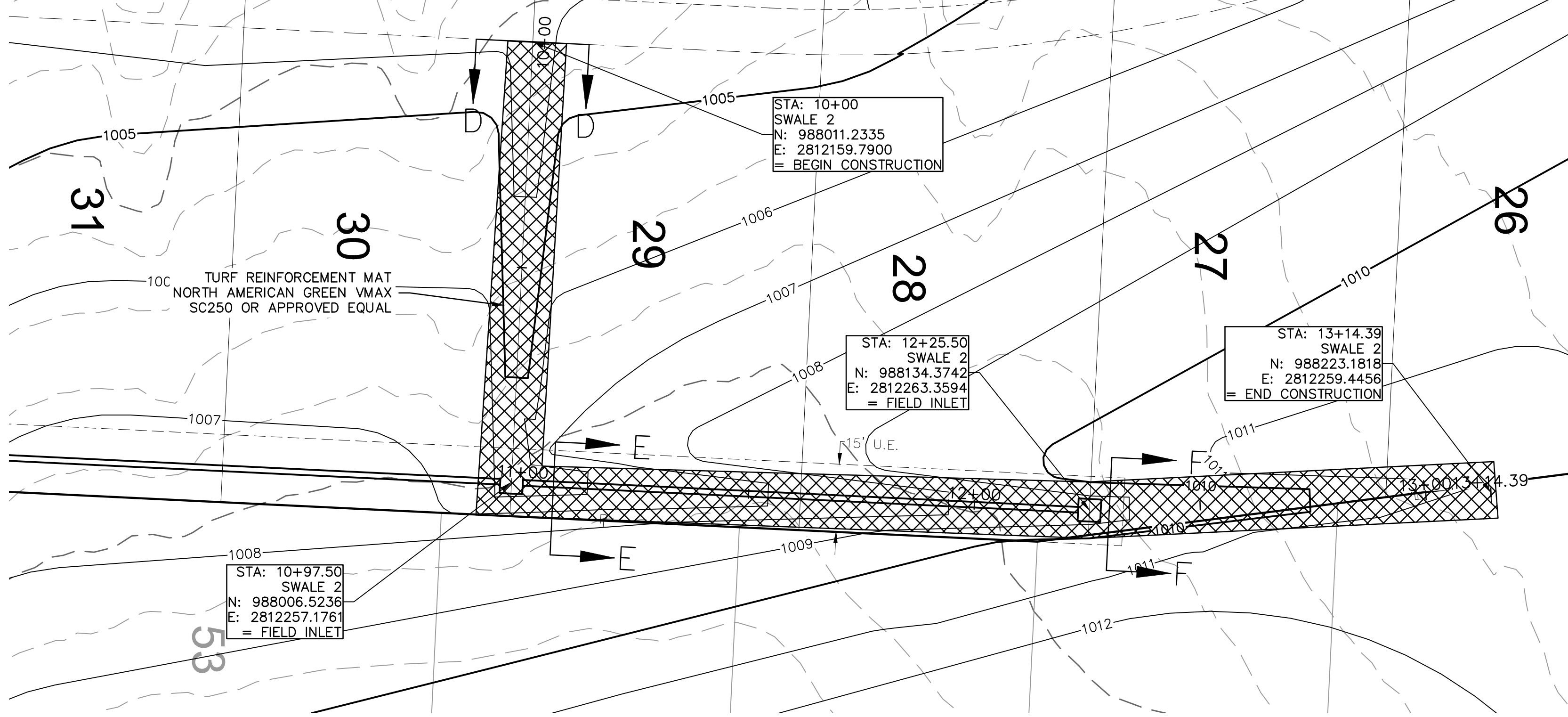
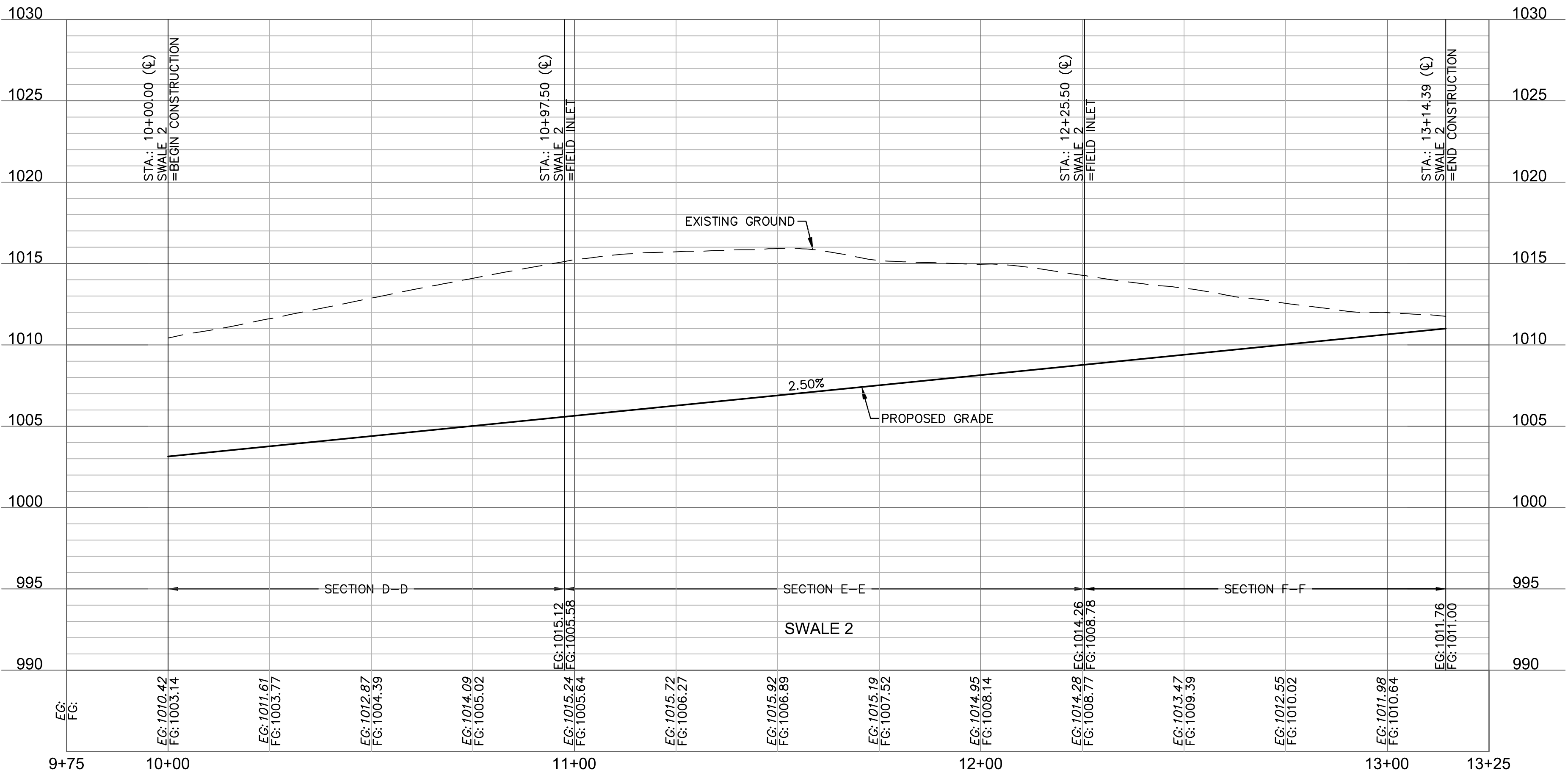
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SWALE 1 PLAN & PROFILE STREET & STORM SEWER PLANS		REV. NO. DATE REVISIONS DESCRIPTION BY		
EAGLE CREEK VILLAS FIRST PLAT		REVISIONS		
LEE'S SUMMIT, MISSOURI		2023		
drawn by: _____ checked by: _____ QA/QC by: _____ project no.: _____ drawing no.: C. SWL01 A202467 date: 10/20/2023		CW SS JS JS A20-2467		
SHEET C106				



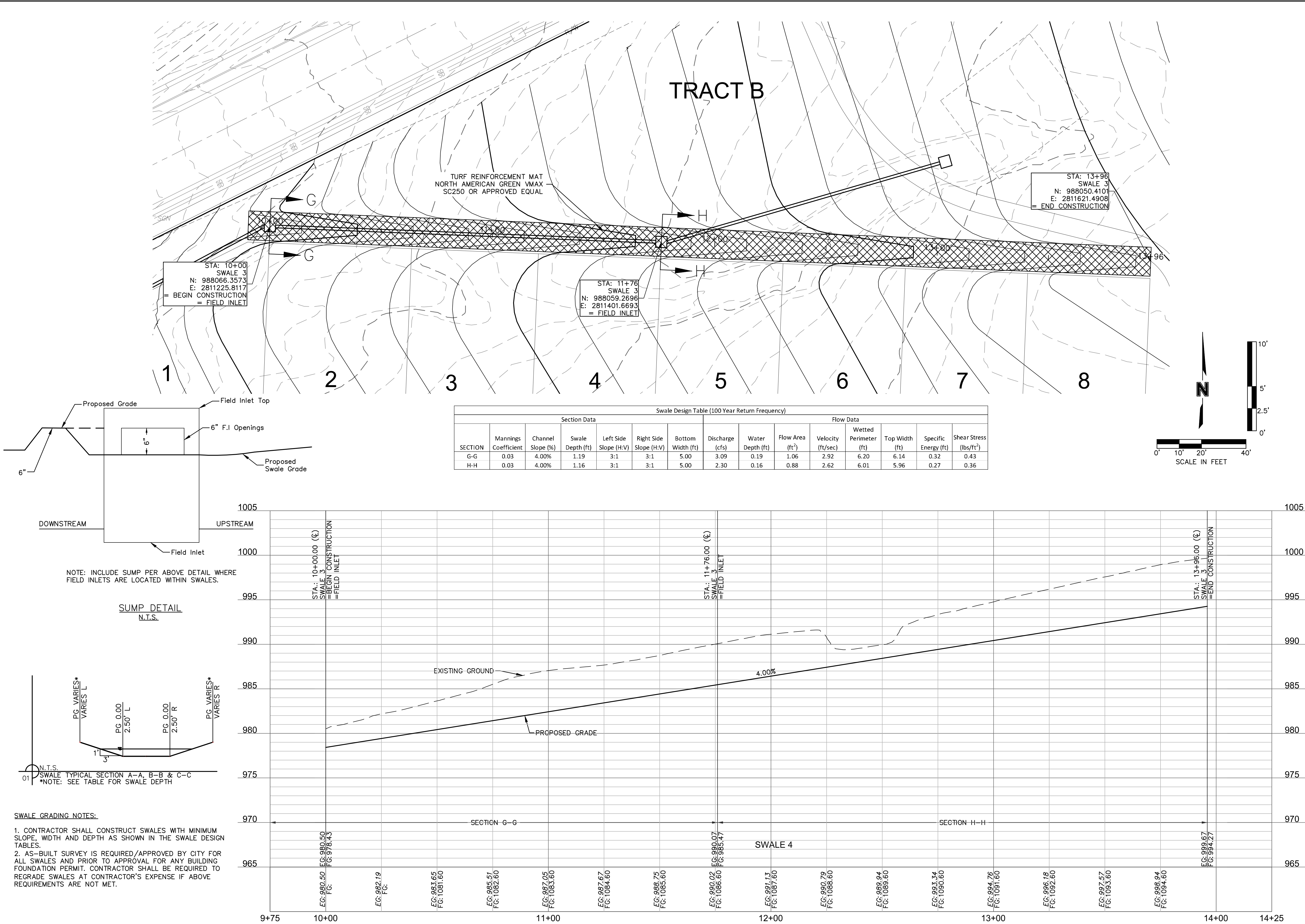
SWALE GRADING NOTES:

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 (ft²)	Velocity (ft/sec)	Wetted Perimeter (ft)	Top Width (ft)	Specific Energy (ft)	Shear Stress (lbs/ft²)	
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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STATE OF MISSOURI
STEPHEN M. Saylor
NUMBER
PE-2018021248
10/27/2023
PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

DATE

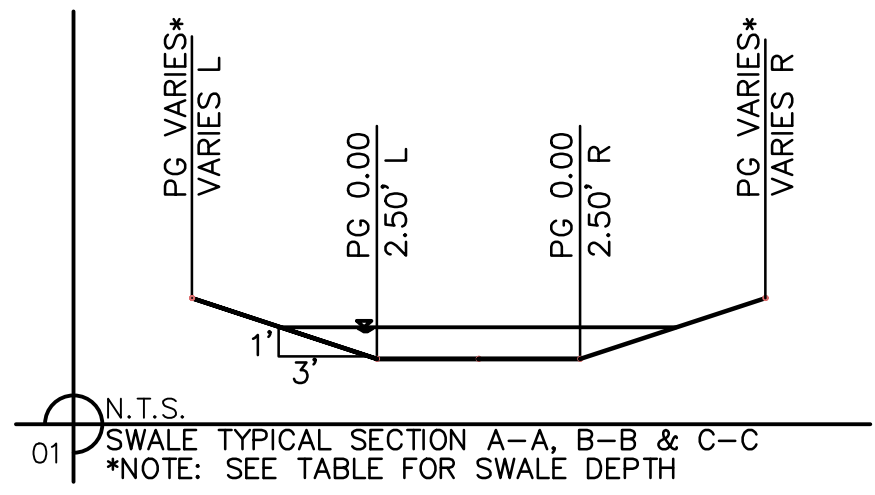
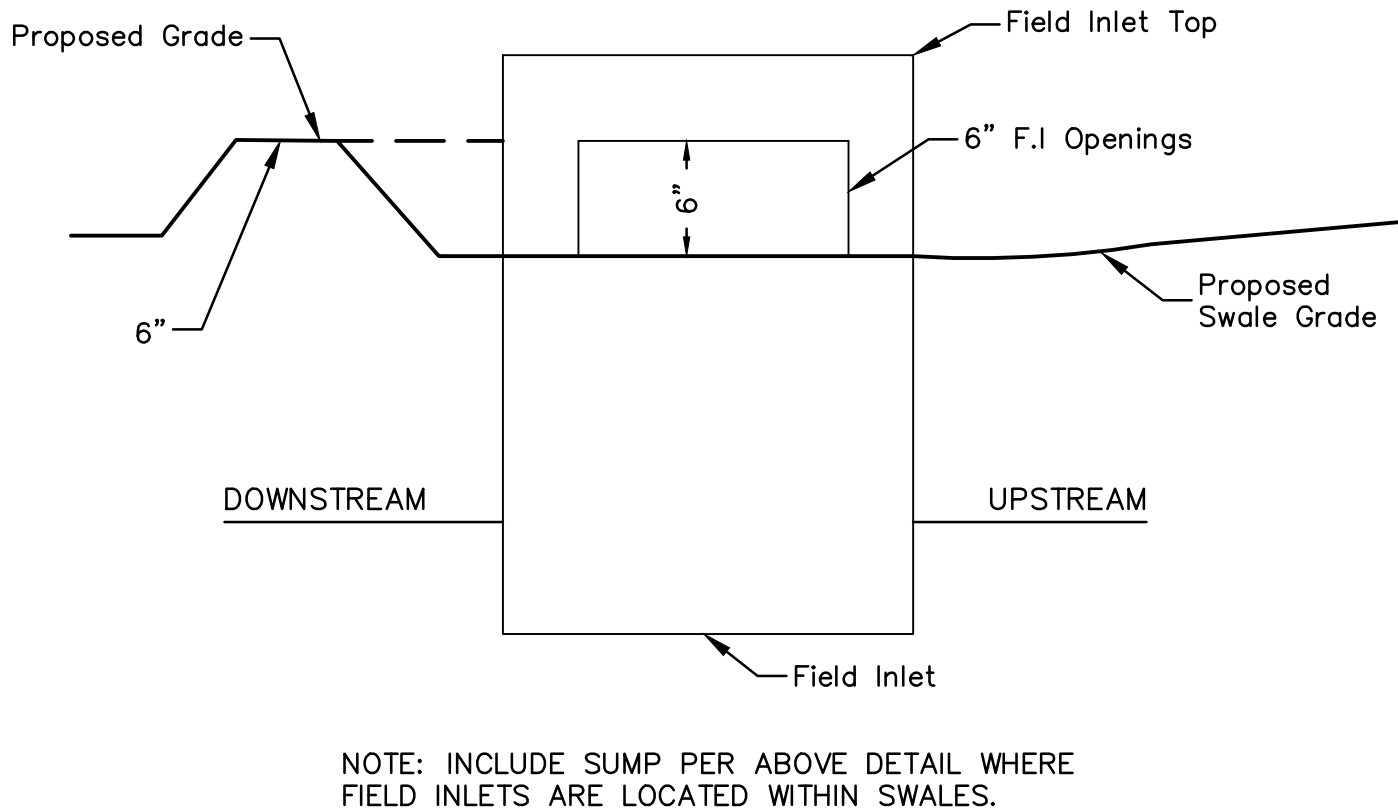
REV. NO.

2023

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

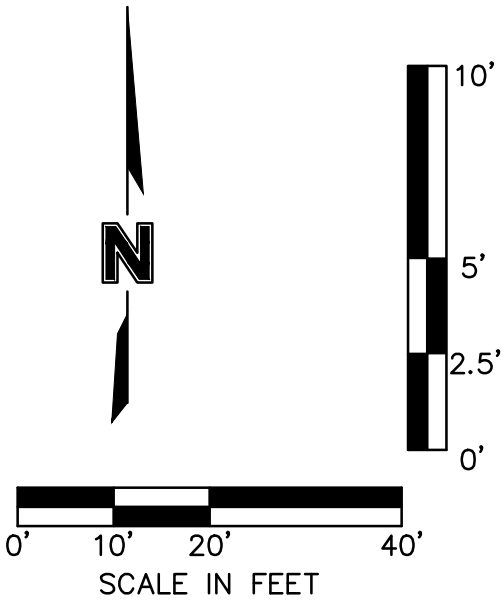
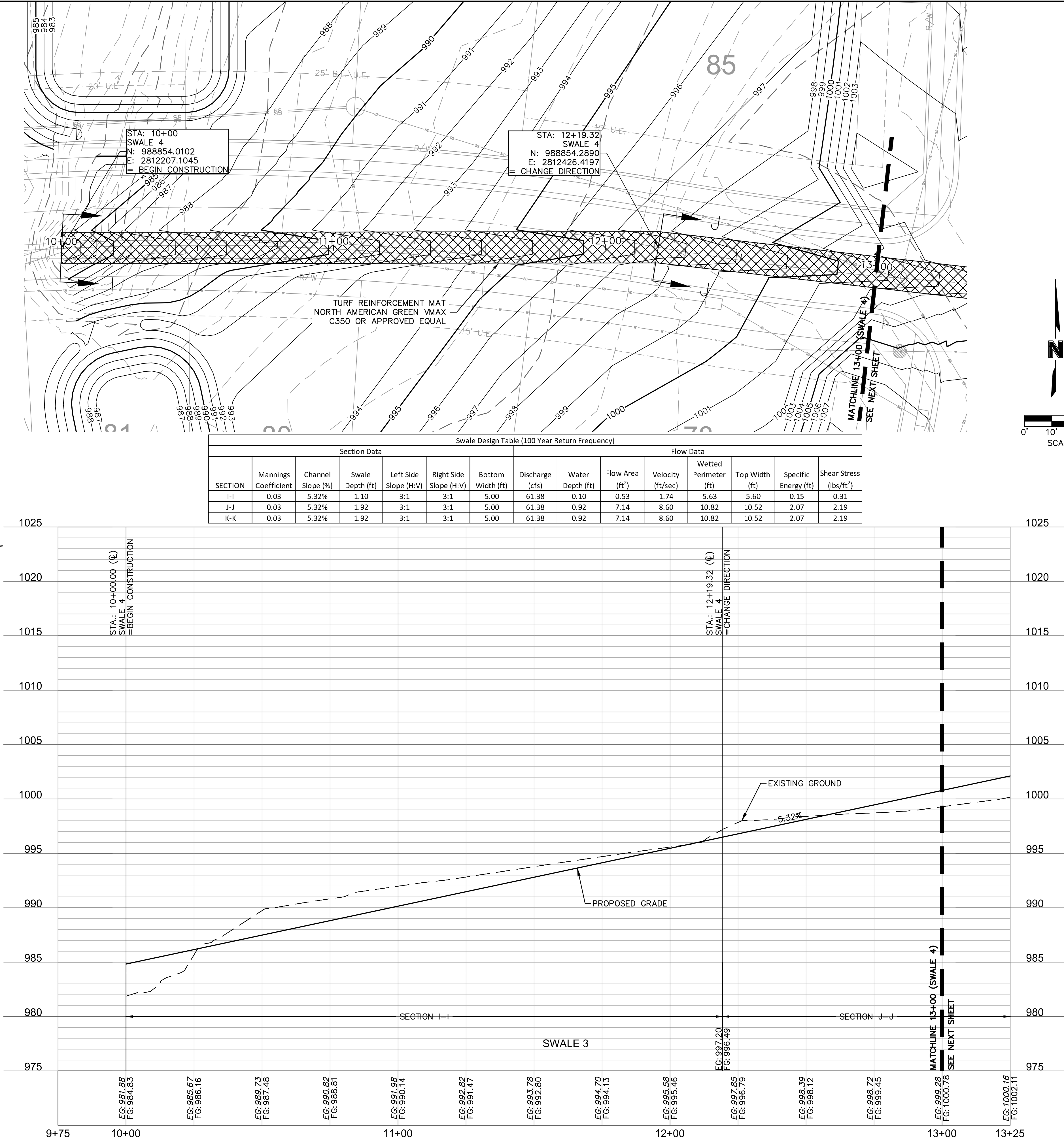
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checked by: SS
approved by: LS
QA/QC by: LS
project no.: A20-2467
drawing no.: C_SWL01_A202467
date: 10/20/2023

SHEET
C108



SWALE GRADING NOTES:

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STATE OF MISSOURI
STEPHEN M. SAYLOR
NUMBER
PE-2018021249
10/27/2023
PROFESSIONAL ENGINEER

BY

REVISIONS

REV. NO.

DATE

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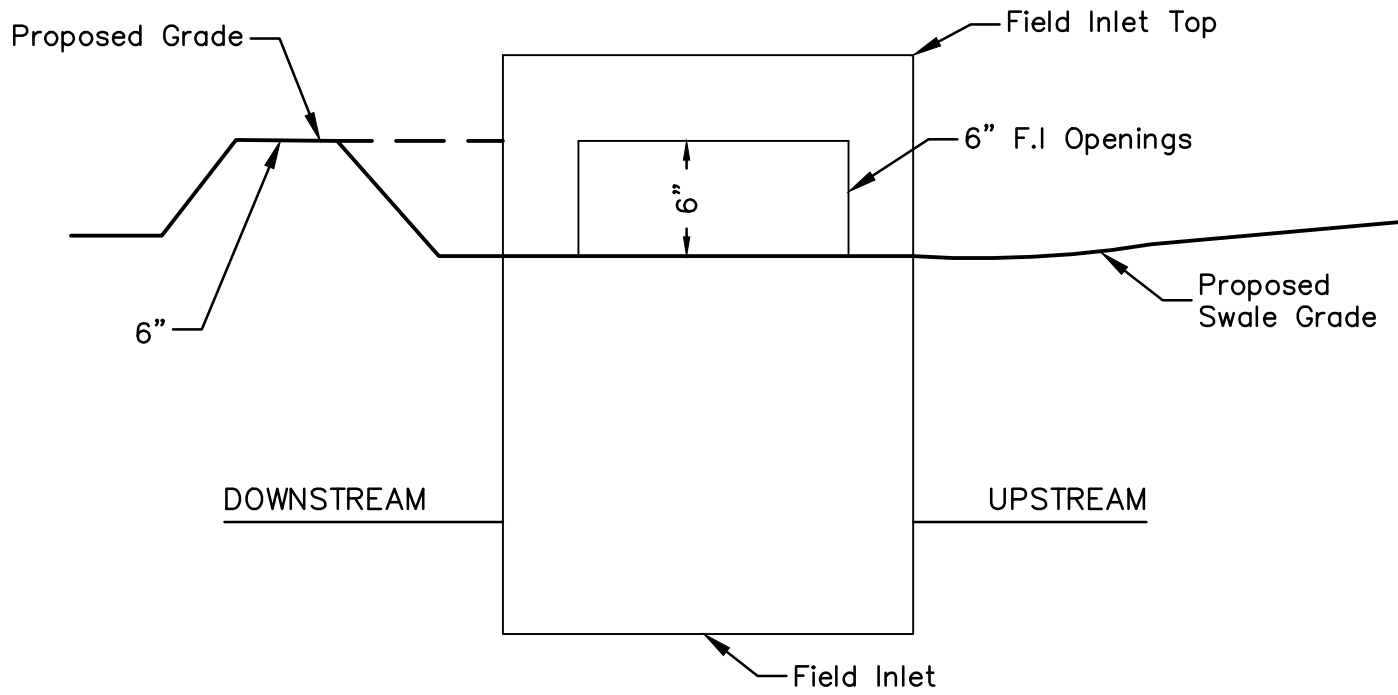
SWALE 4 PLAN & PROFILE
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

2023

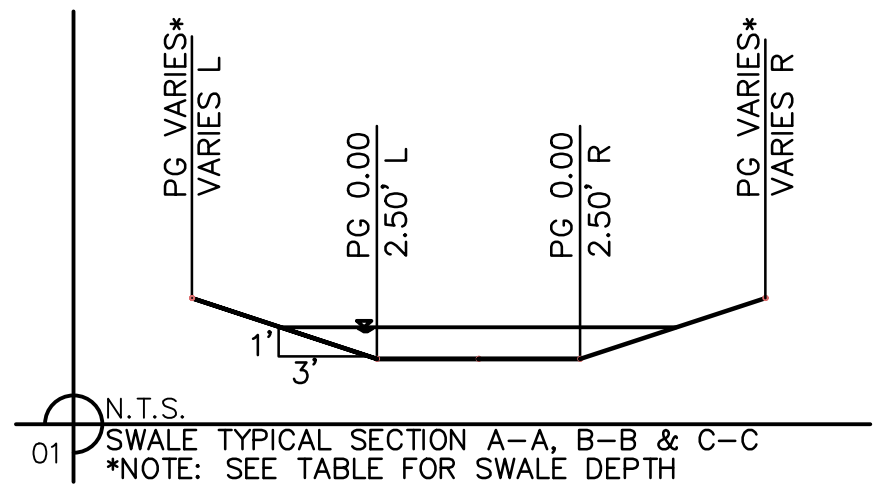
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SHEET
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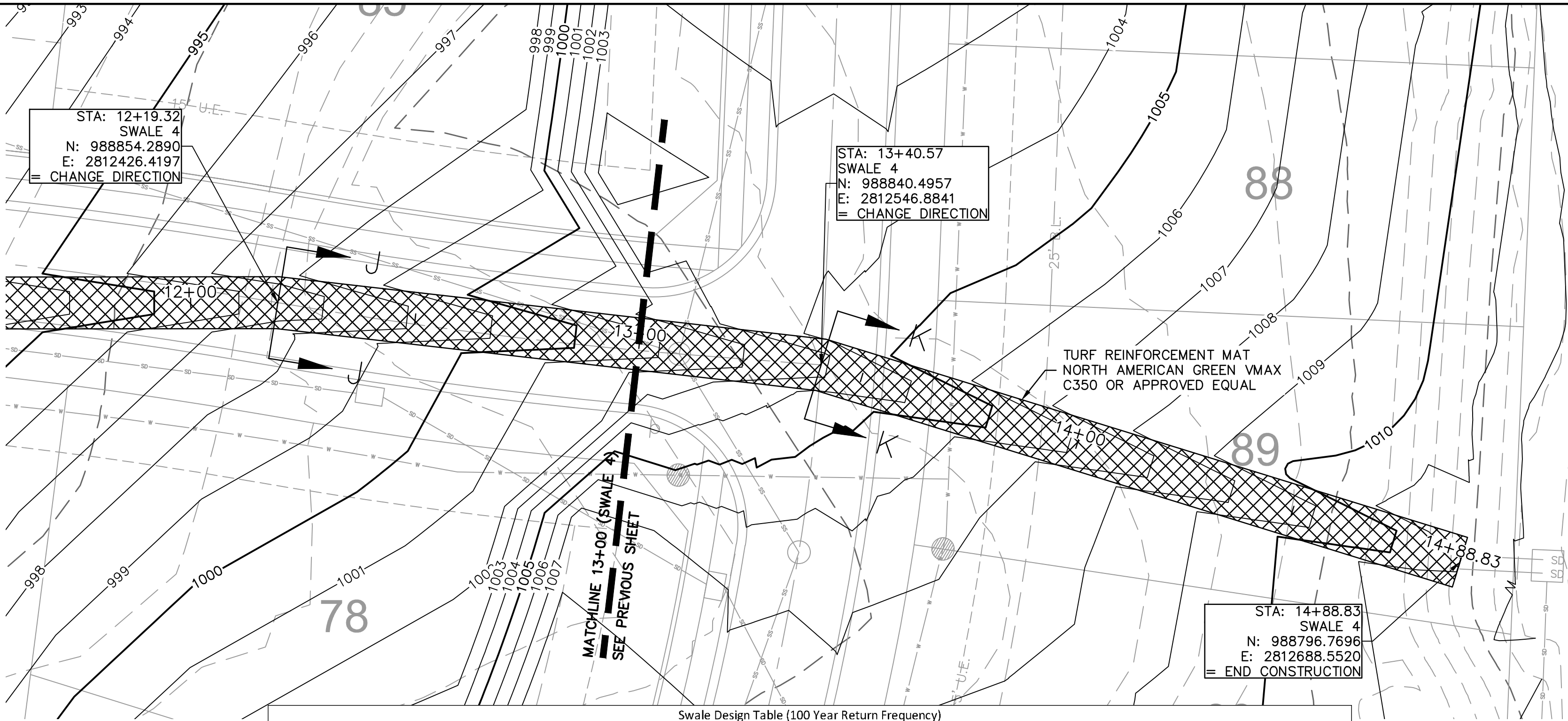
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SUMP DETAIL
N.T.S.

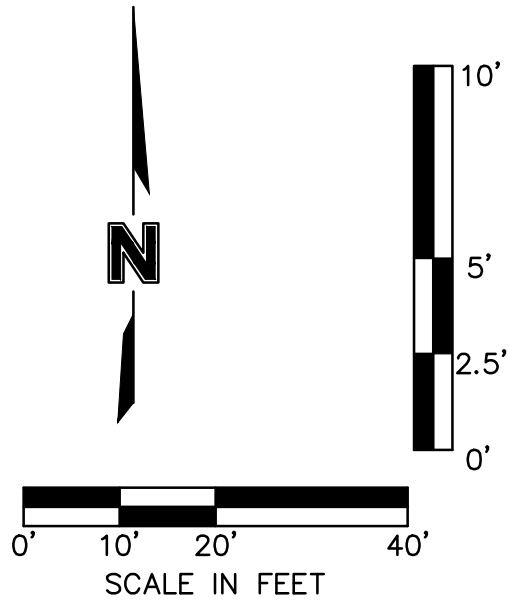
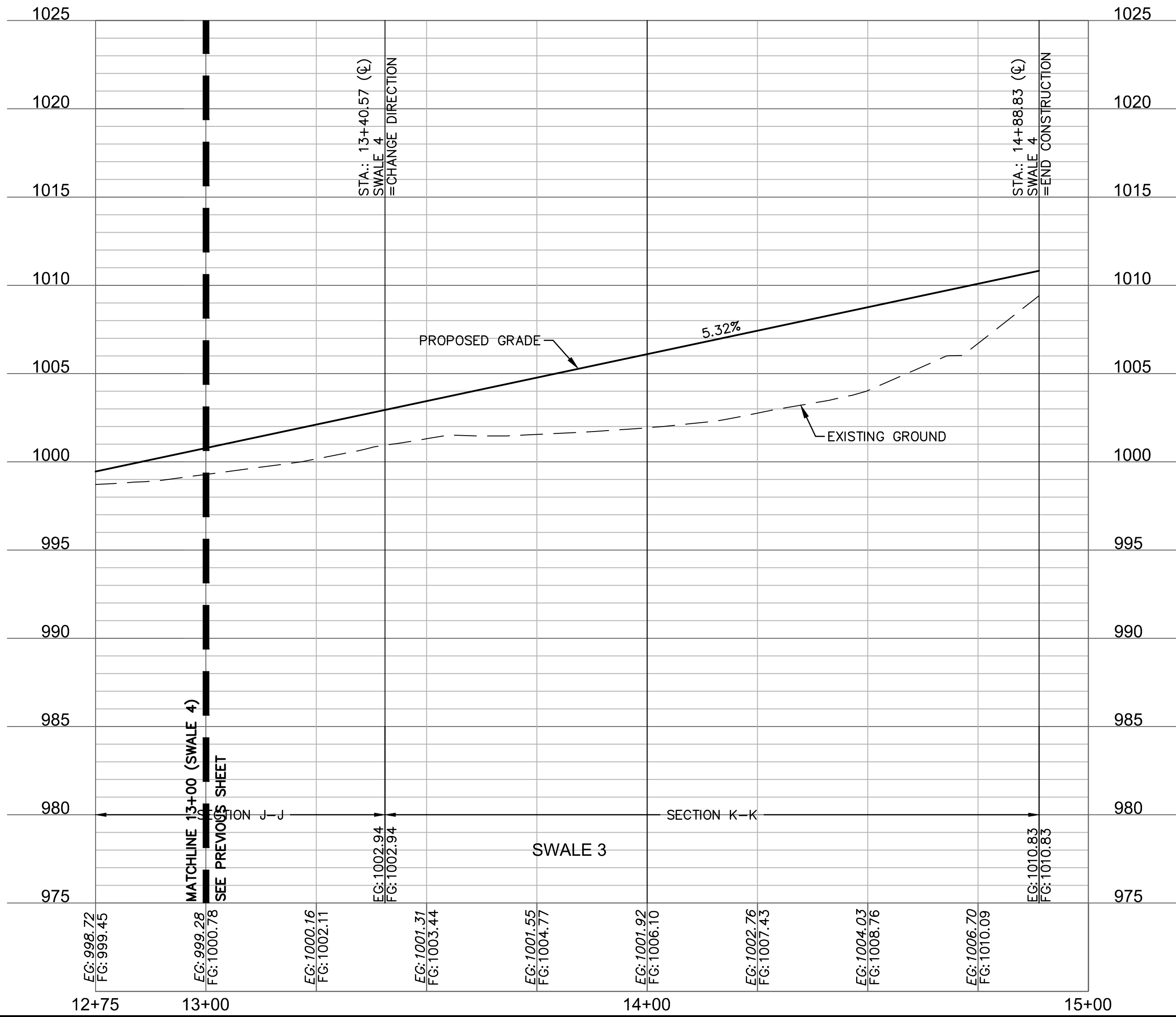


SWALE GRADING NOTES:

1. CONTRACTOR SHALL CONSTRUCT SWALES WITH MINIMUM SLOPE, WIDTH AND DEPTH AS SHOWN IN THE SWALE DESIGN TABLES.
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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 (ft²)	Velocity (ft/sec)	Wetted Perimeter (ft)	Top Width (ft)	Specific Energy (ft)	Shear Stress (lbs/ft²)
I-I	0.03	5.32%	1.10	3:1	3:1	5.00	61.38	0.10	0.53	1.74	5.63	5.60	0.15	0.31
J-J	0.03	5.32%	1.92	3:1	3:1	5.00	61.38	0.92	7.14	8.60	10.82	10.52	2.07	2.19
K-K	0.03	5.32%	1.92	3:1	3:1	5.00	61.38	0.92	7.14	8.60	10.82	10.52	2.07	2.19



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SWALE 4 PLAN & PROFILE CONT.
STREET & STORM SEWER PLANS
EAGLE CREEK VILLAS
FIRST PLAT
LEE'S SUMMIT, MISSOURI

2023

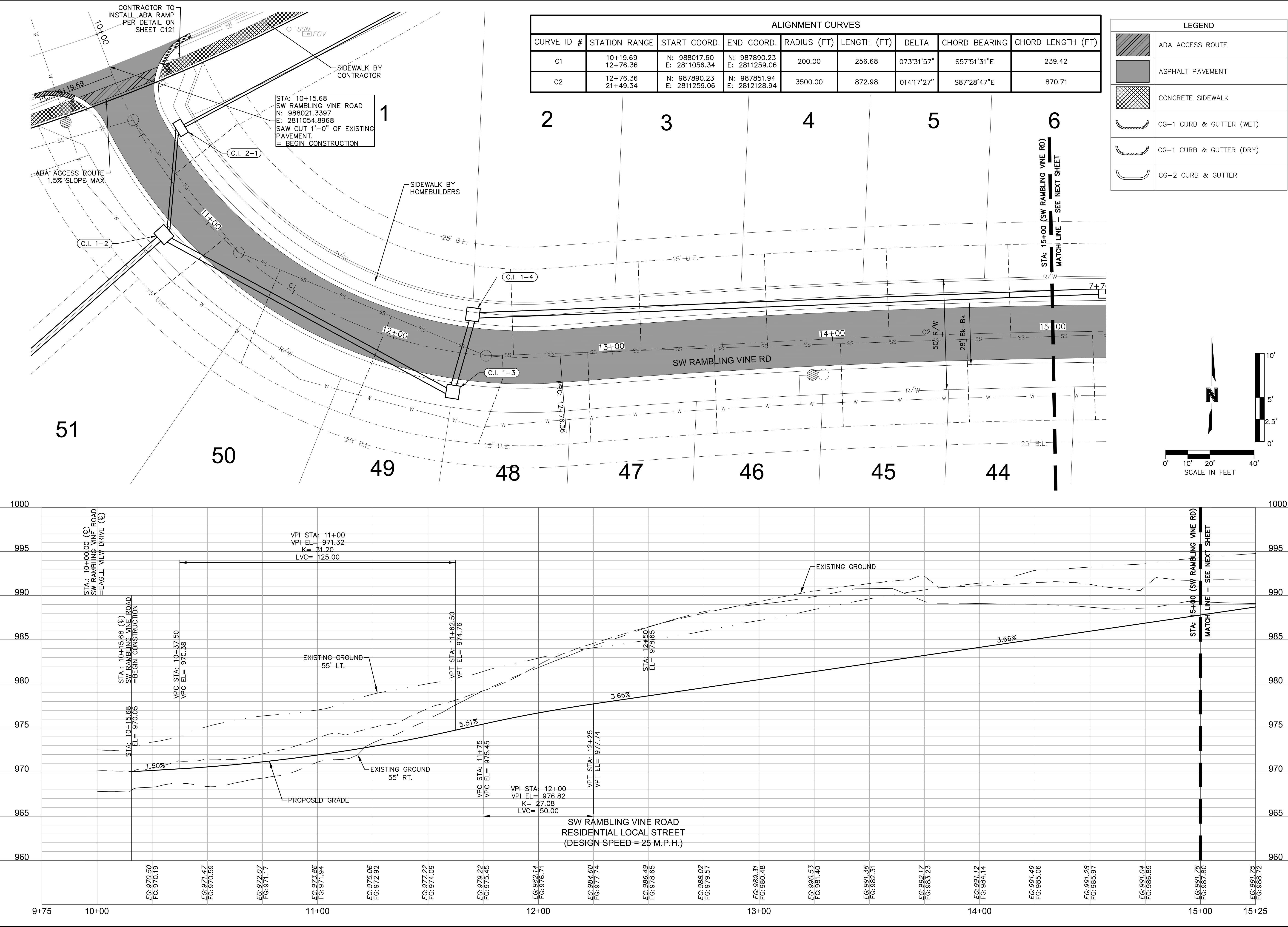
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approved by: _____
QA/QC by: _____
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drawing no.: C_SWL01_A202467
date: 10/20/2023

CY
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BY

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STEPHEN M. SAYLOR
LICENSED PROFESSIONAL ENGINEER
PE-2018021249
10/27/2023

BY

REVISIONS DESCRIPTION

DATE

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ROAD PLAN & PROFILE (SW RAMBLING VINE ROAD)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

drawn by: C111

checked by: SS

approved by: LS

QA/QC by: LS

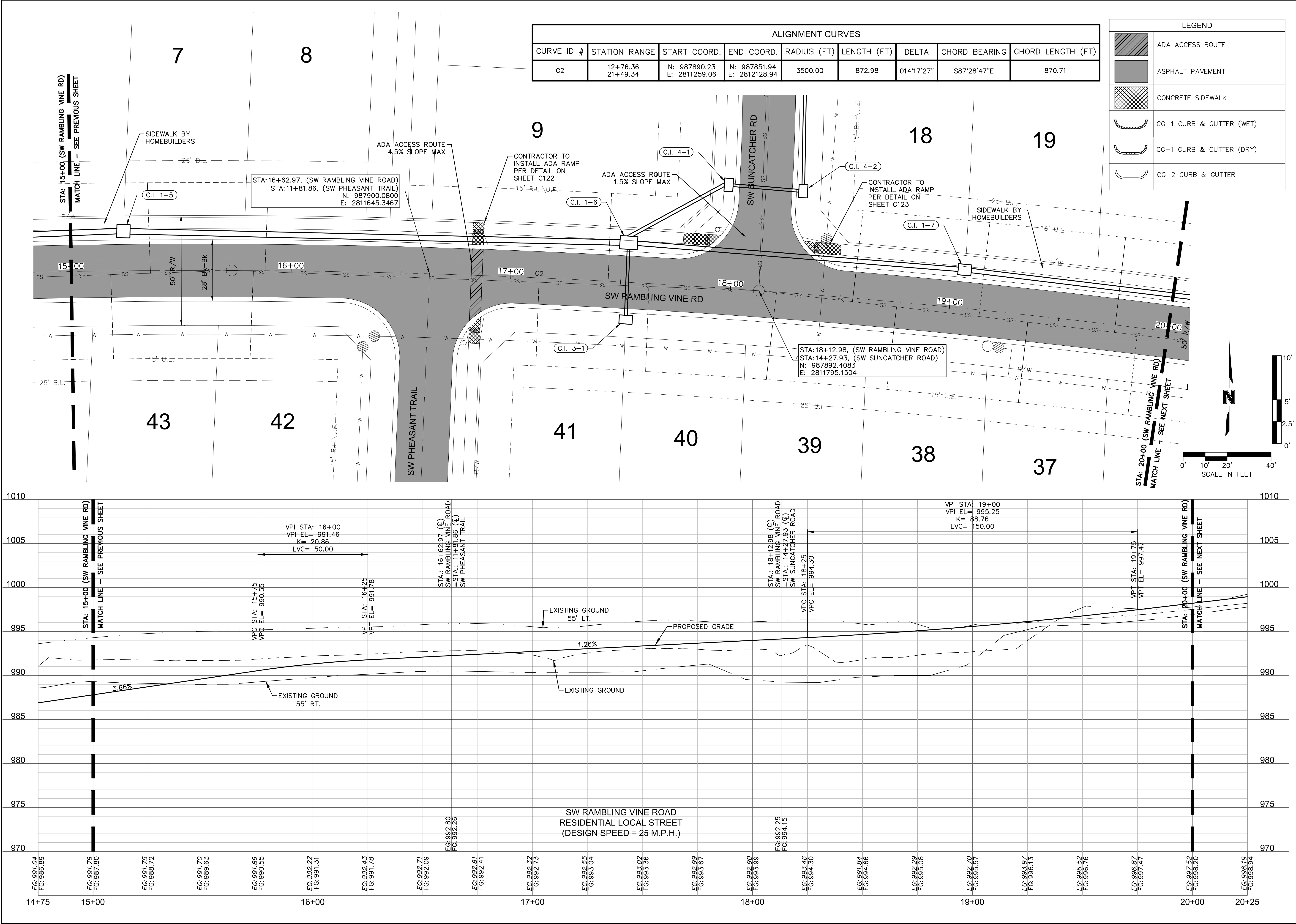
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drawing no.: C_PPP01_A202467

date: 10/20/2023

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PROFESSIONAL ENGINEER

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ROAD PLAN & PROFILE (SW RAMBLING VINE ROAD)
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

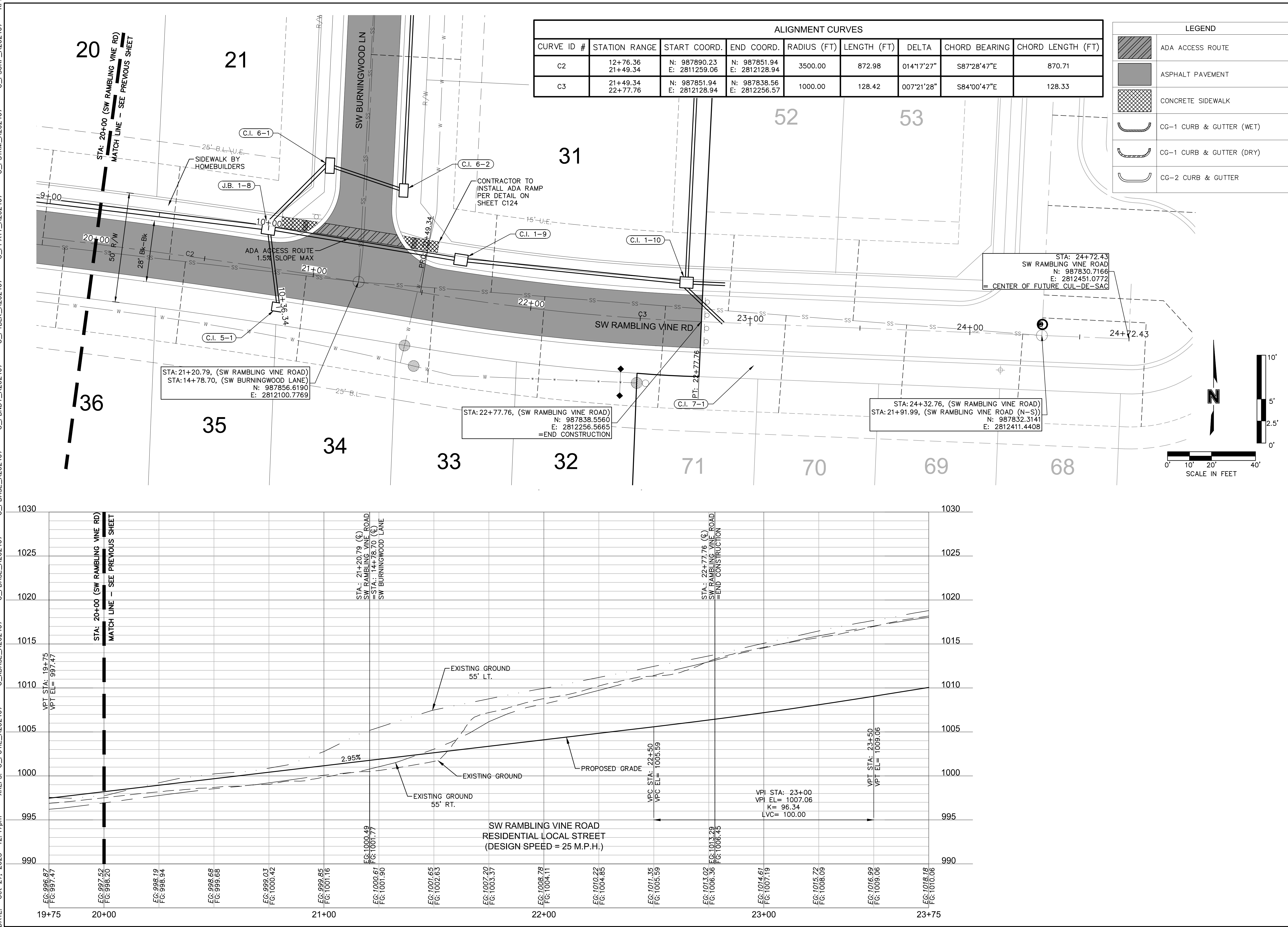
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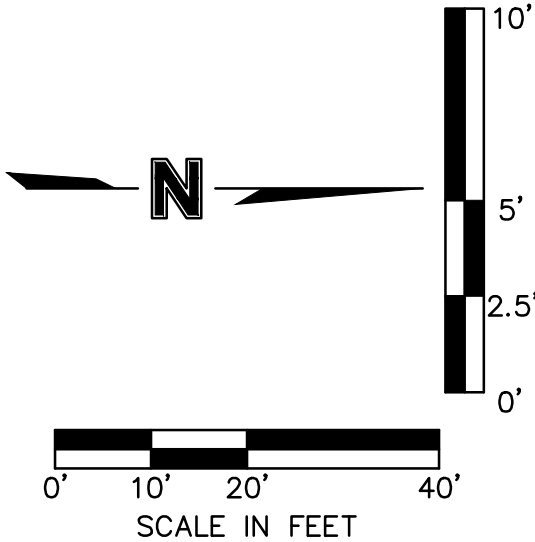
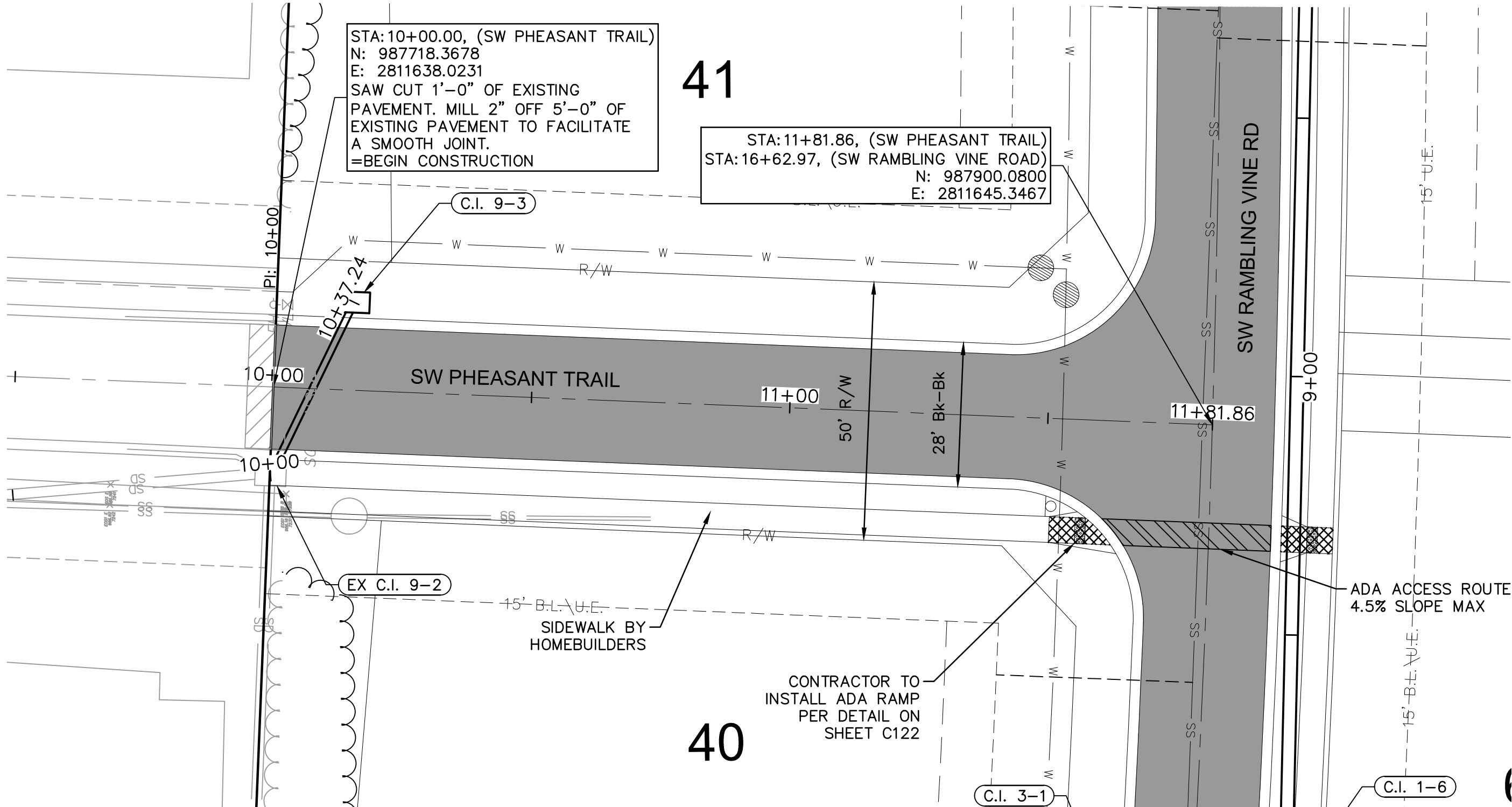
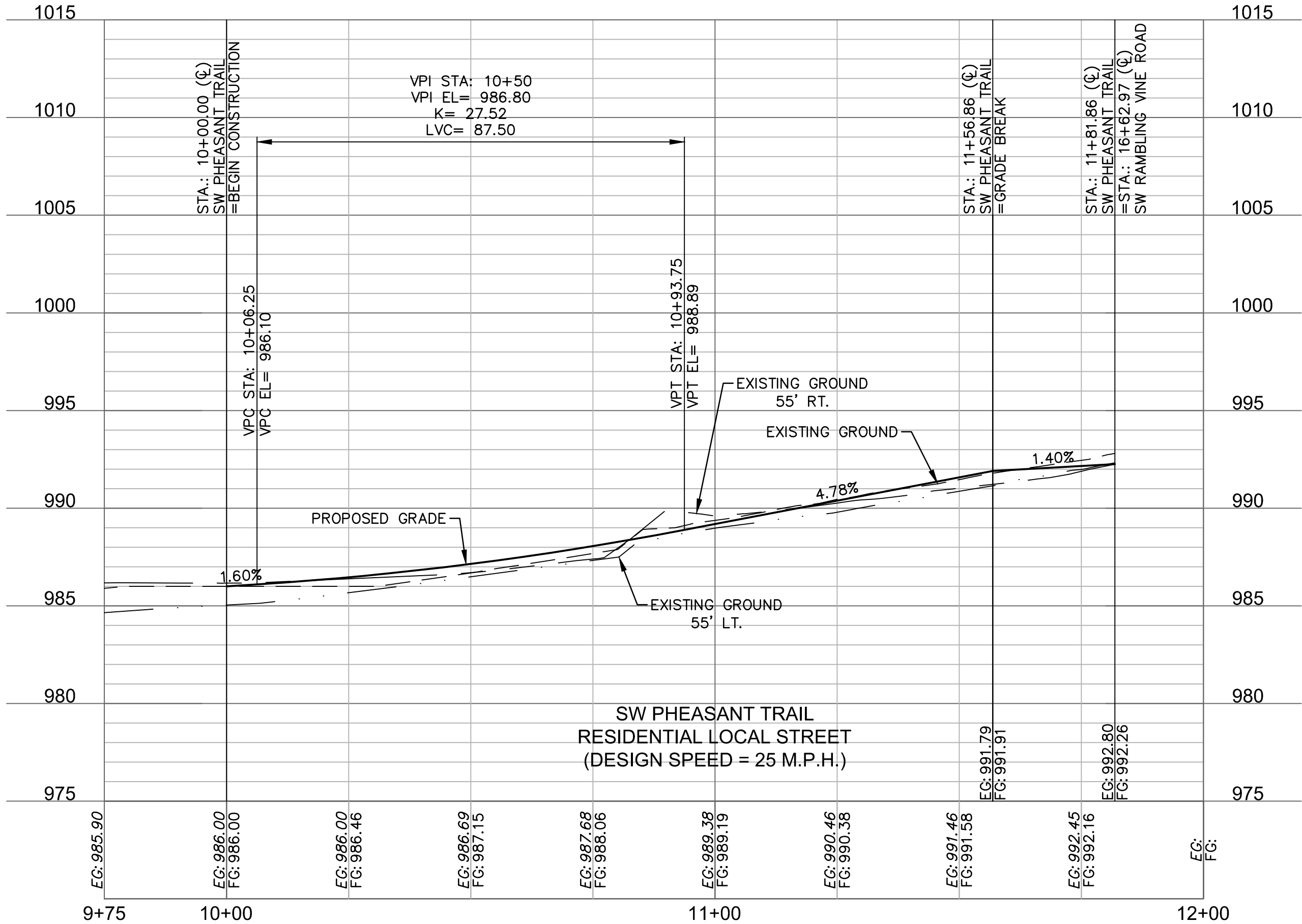
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date: 10/20/2023

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REVISIONS





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: _____ CJK
checked by: _____ SS
approved by: _____ JS
QA/QC by: _____ JS
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drawing no.: C_RPP02_A202467
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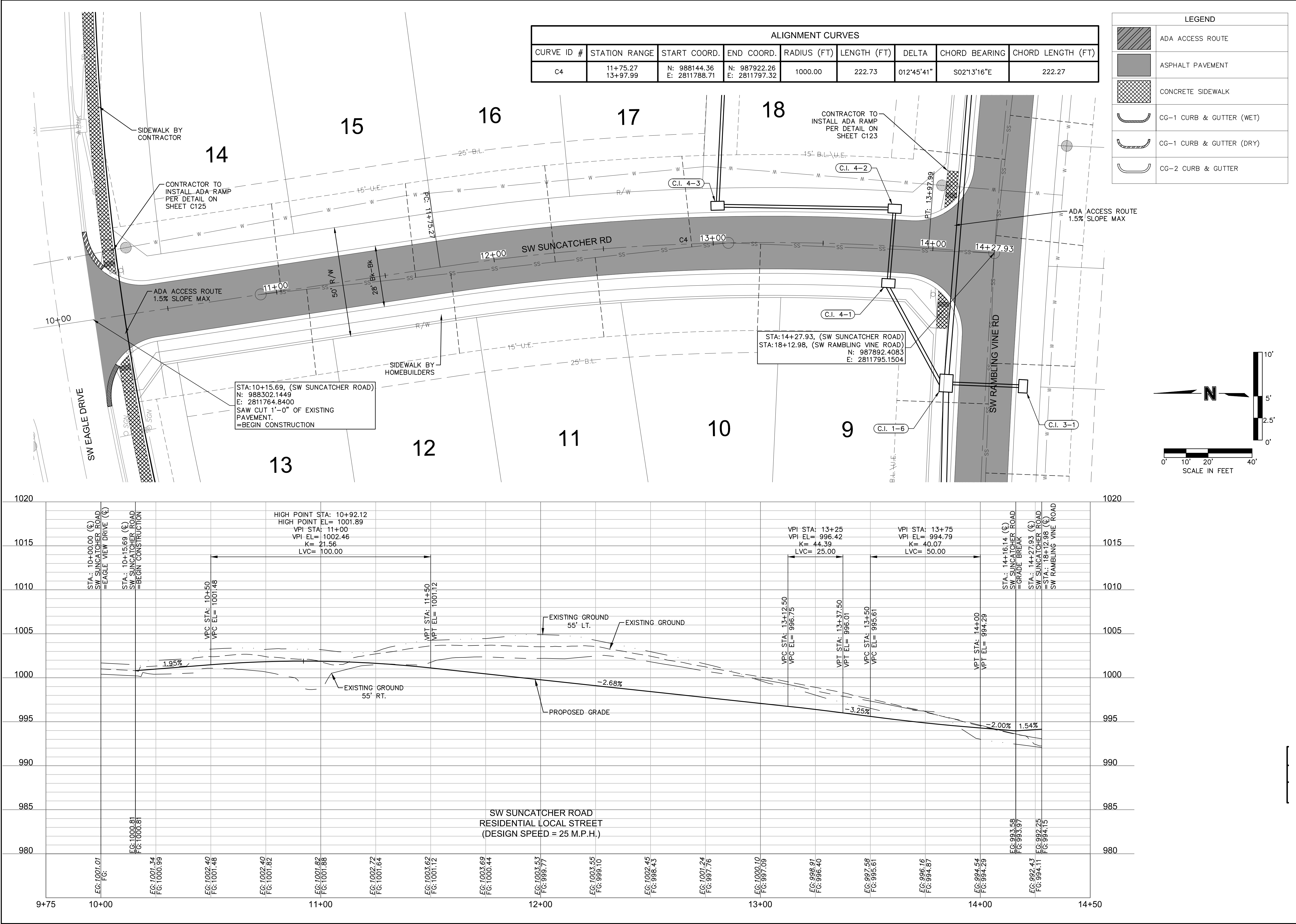
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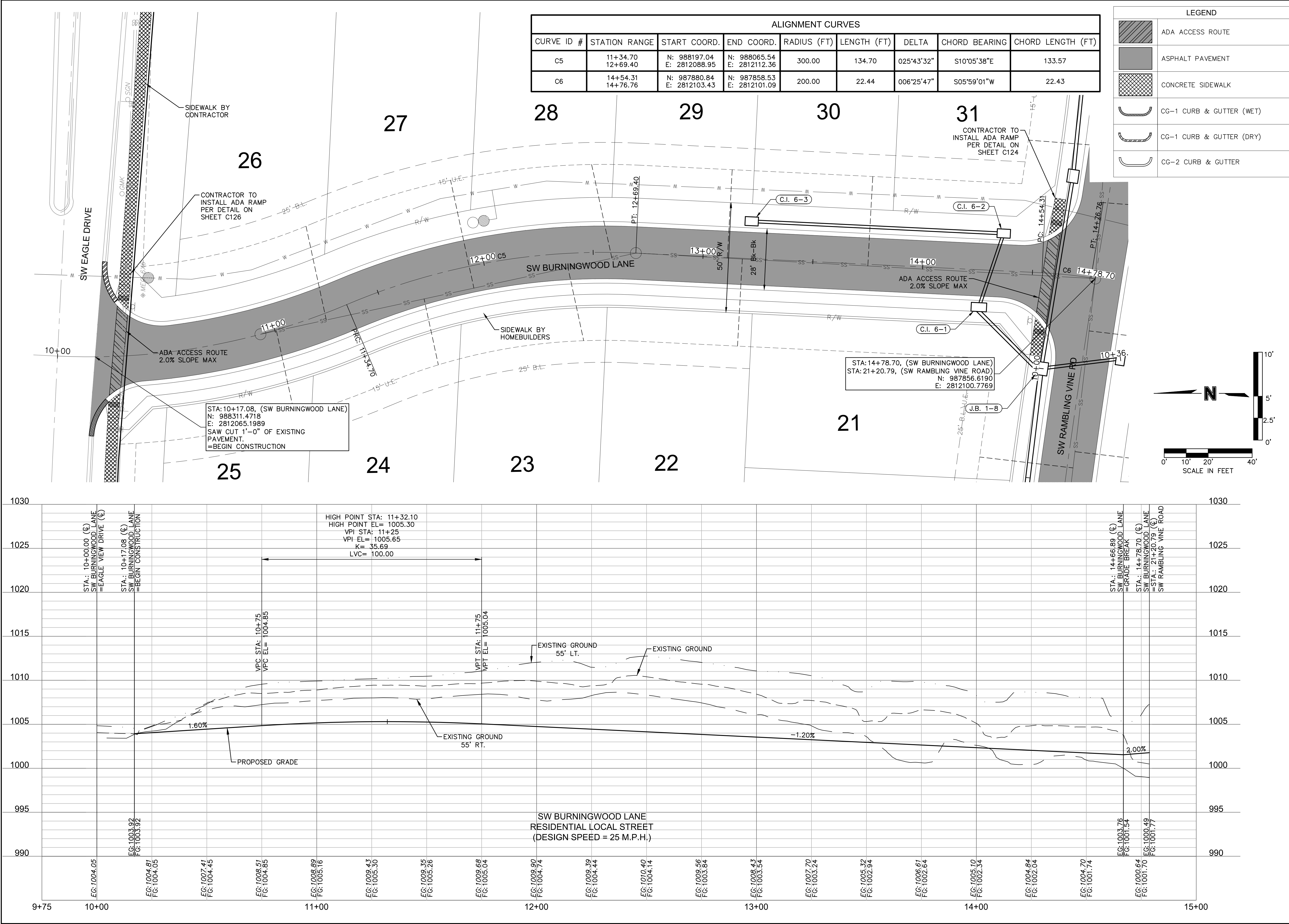
STATE OF MISSOURI
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PE-2018021249
10/27/2023
PROFESSIONAL ENGINEER

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DATE
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ROAD PLAN & PROFILE (SW SUNCATCHER ROAD)
STREET & STORM SEWER PLANS
EAGLE CREEK VILLAS
FIRST PLAT
LEE'S SUMMIT, MISSOURI
2023

drawn by: CJK
checked by: SS
approved by: LB
QA/QC by: LB
project no.: A20-2467
drawing no.: C_RPP02_A202467
date: 10/20/2023

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C115



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ROAD PLAN & PROFILE (SW BURNINGWOOD LANE) STREET & STORM SEWER PLANS	
EAGLE CREEK VILLAS FIRST PLAT	
LEE'S SUMMIT, MISSOURI	
2023	

drawn by: _____

checked by: _____

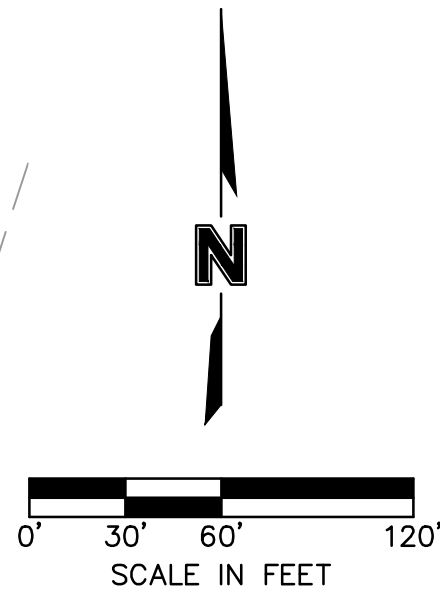
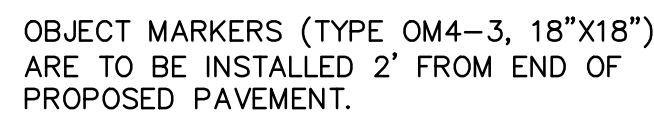
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drawing no.: C_RPP02_A202467

date: 10/20/2023

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USER: cwoodward

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TRAFFIC CONTROL PLAN STREET & STORM SEWER PLANS

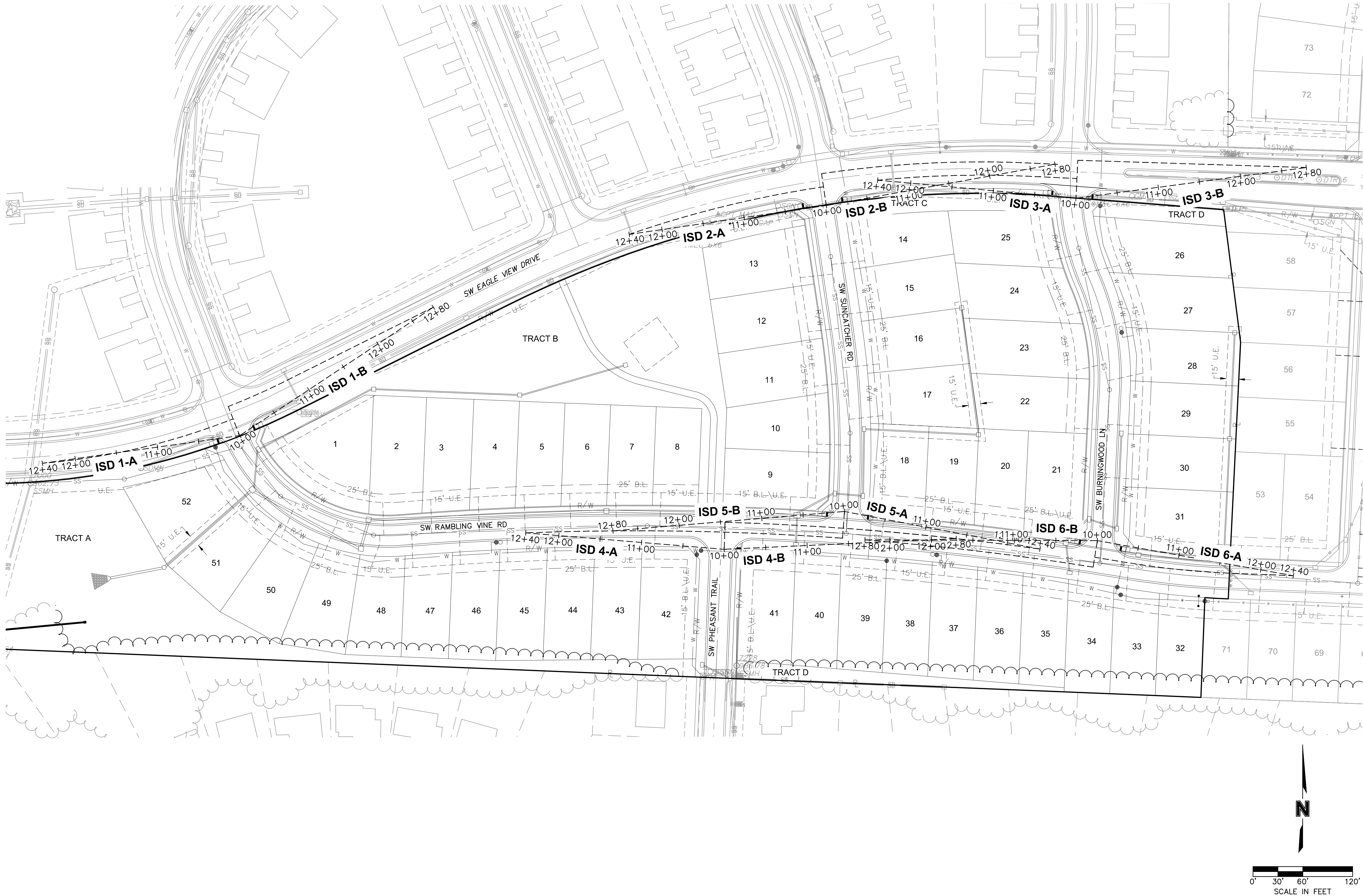
EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

drawn by: _____ CW
checked by: _____ SS
approved by: _____ JS
QA/QC by: _____ JS
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USER: cwoodward



INTERSECTION SITE DISTANCE PLAN
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: C/W
checked by: S/S
approved by: L/S
QA/QC by: J/S
project no.: A20-2467
drawing no.: C TCP02 A202467
date: 10/20/2023

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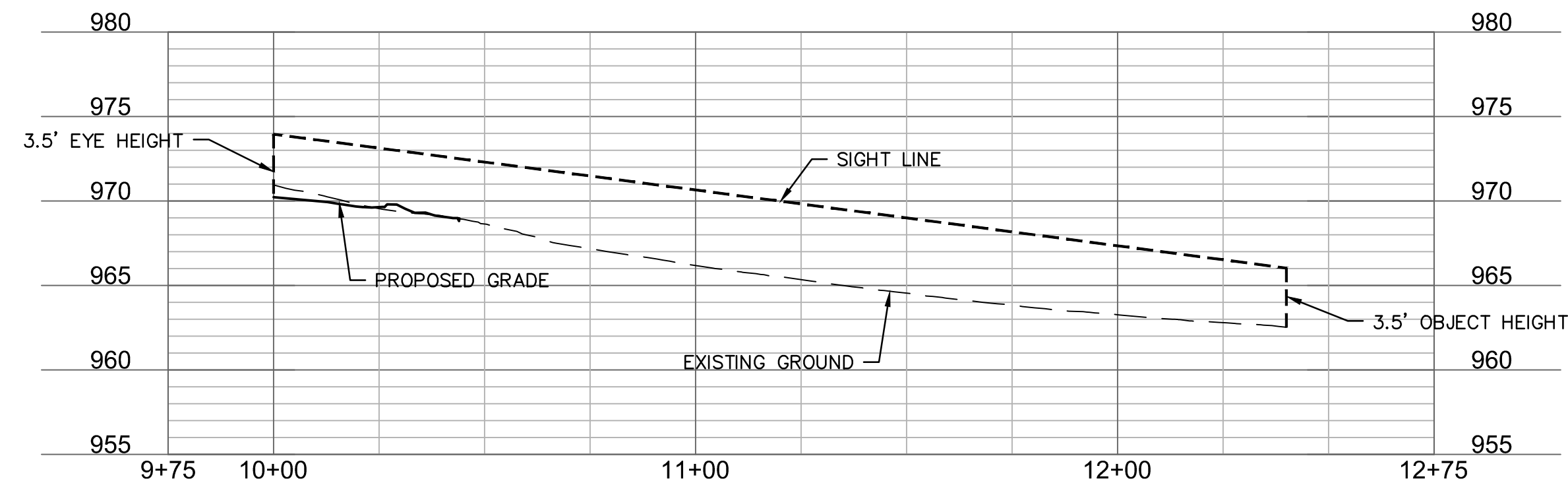
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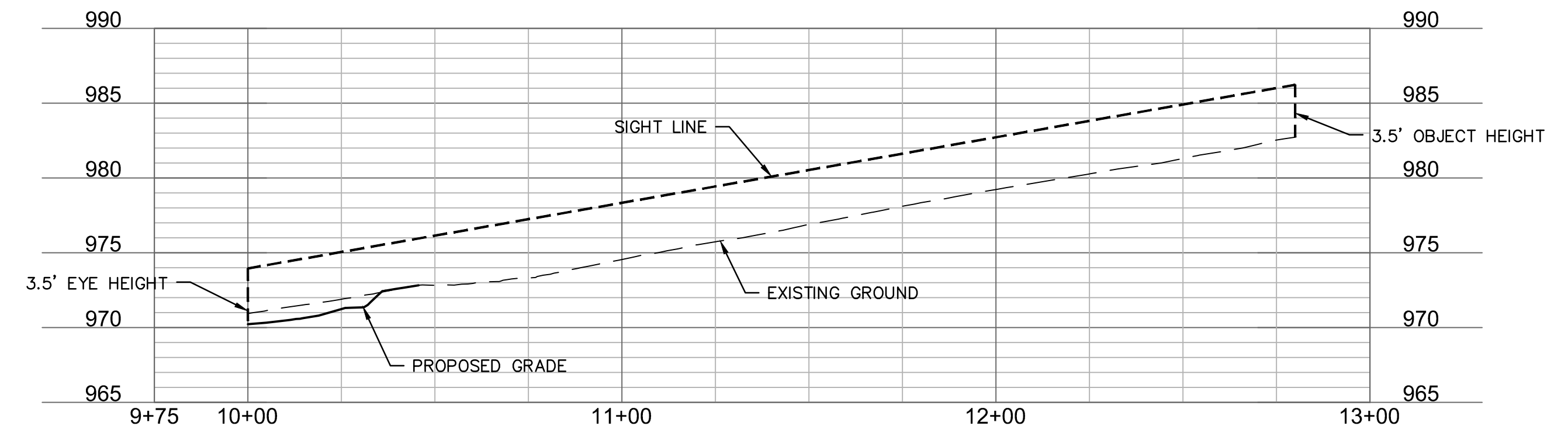
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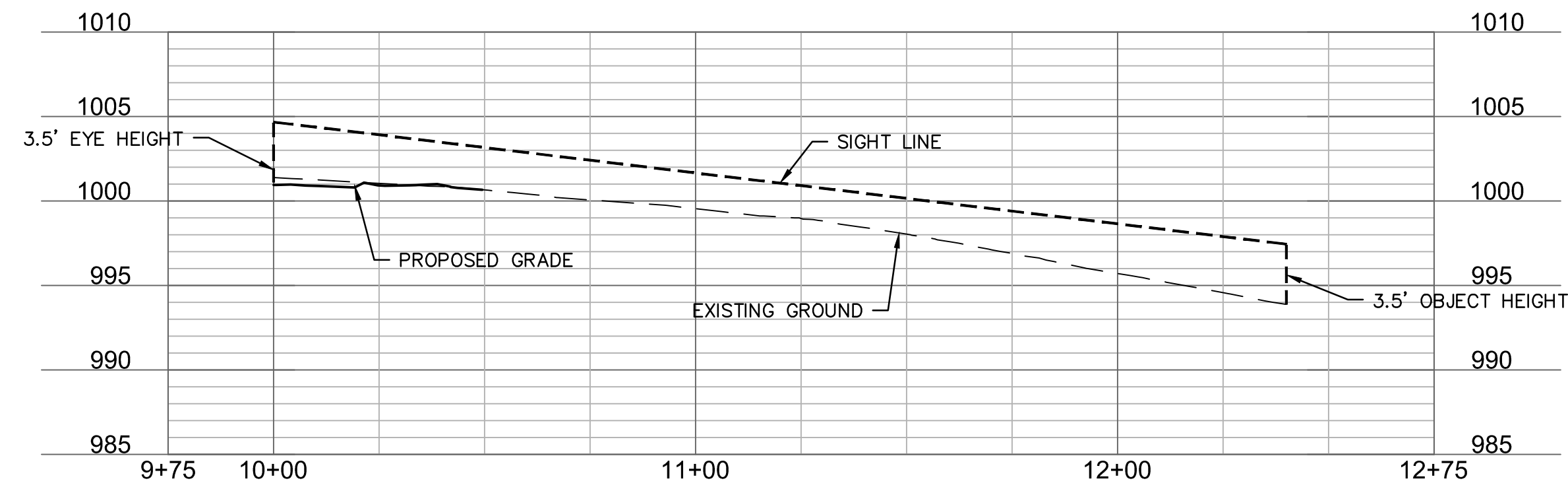
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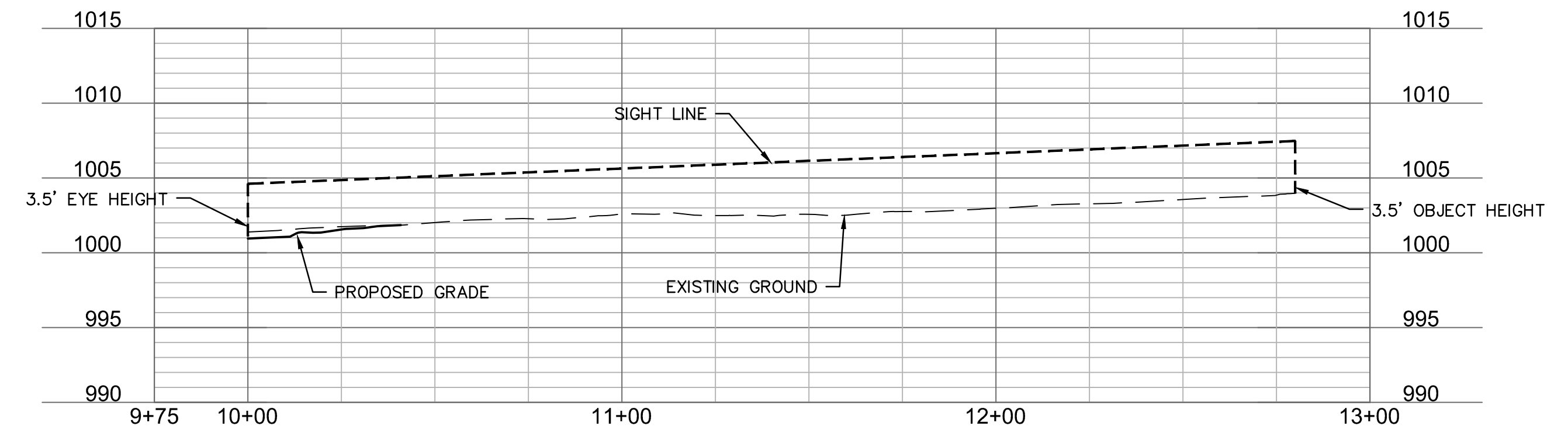
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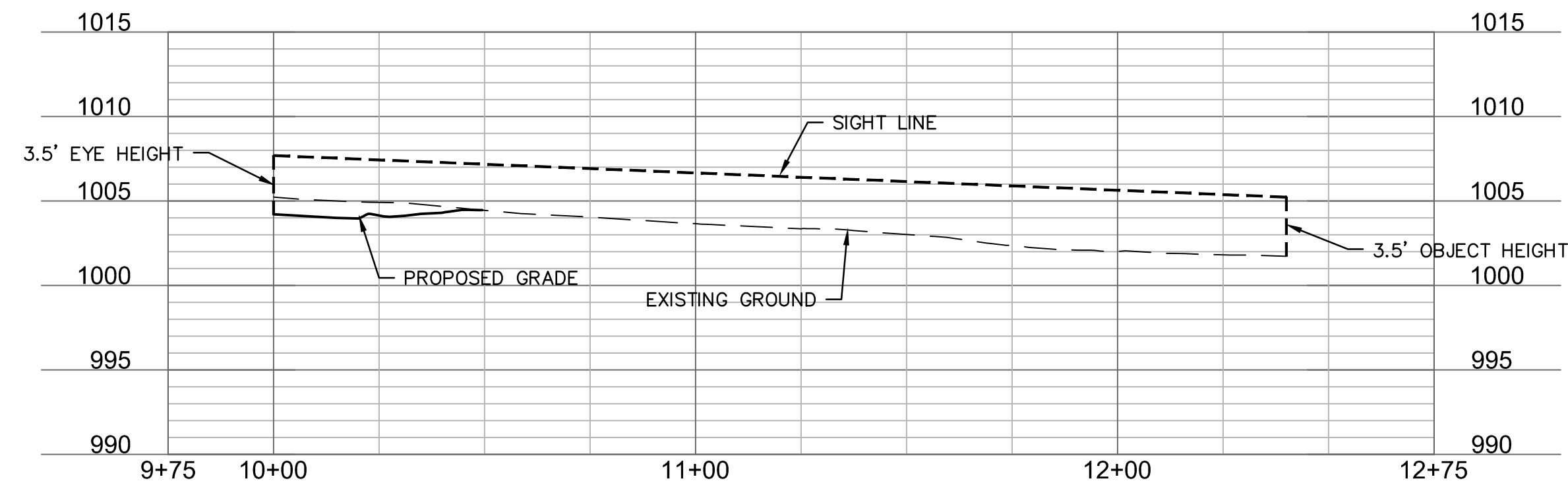
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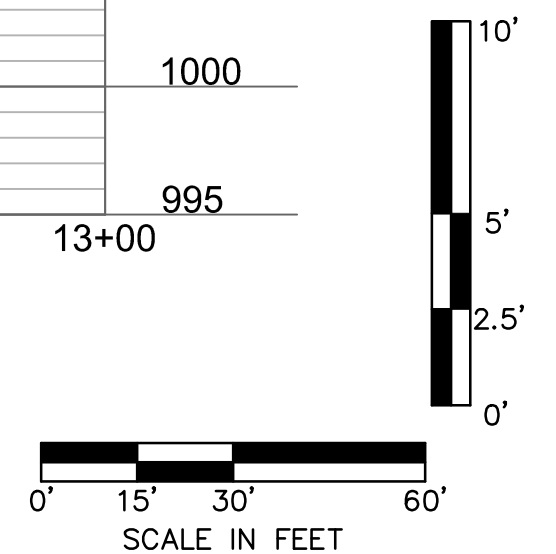
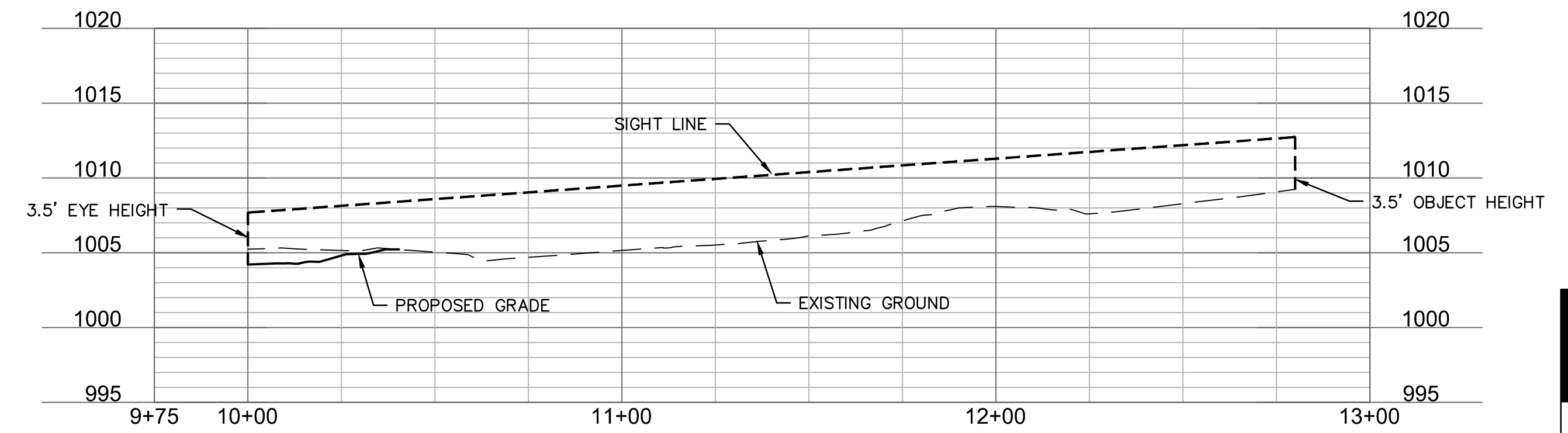
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ISD 3-A (9+75 - 12+75)



ISD 3-B (9+75 - 13+00)



INTERSECTION SITE DISTANCE PROFILES STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

Drawn by: _____ CW
 Checked by: _____ SS
 Approved by: _____ JS
 A/QC by: _____ JS
 Project no.: _____ A20-2467
 Drawing no.: _____ C TCP02 A202467
 Date: _____ 10/20/2023

SHEET
C119

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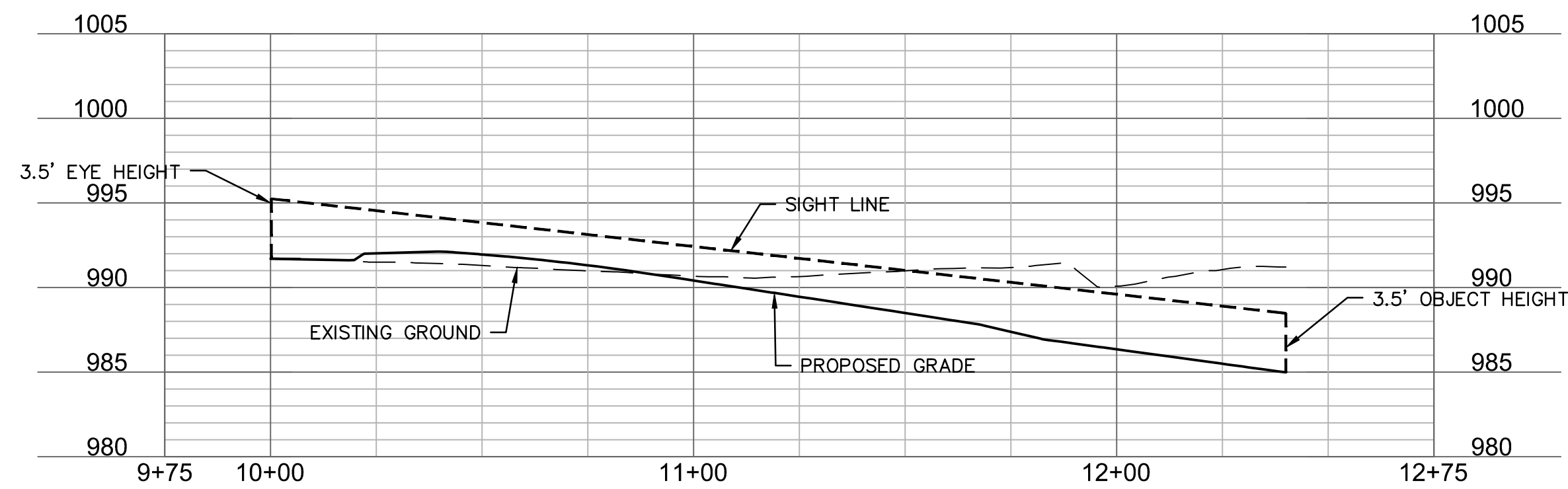
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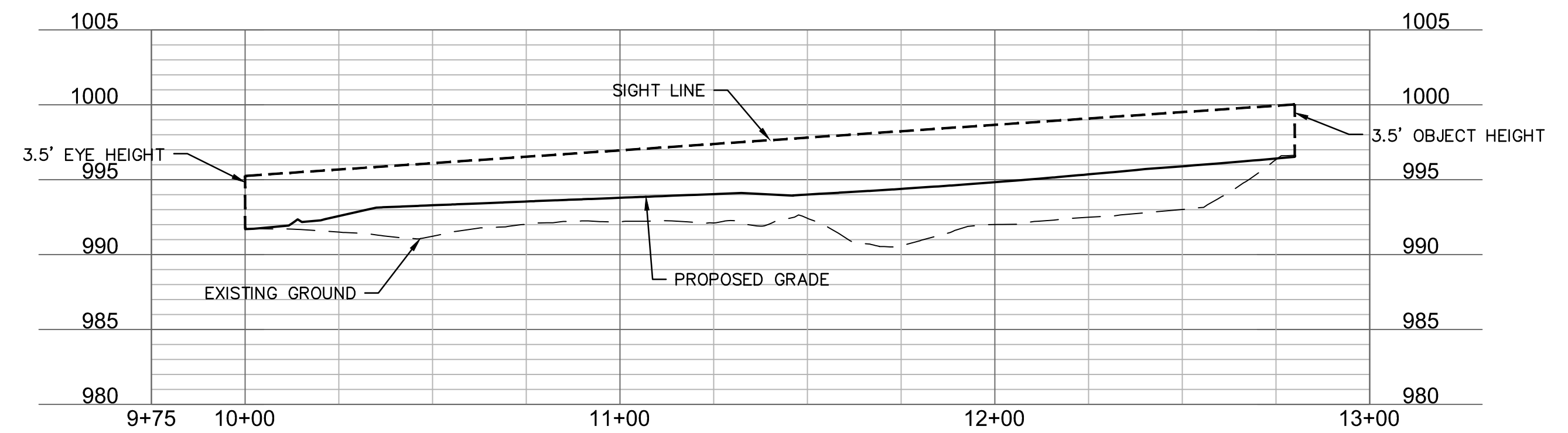
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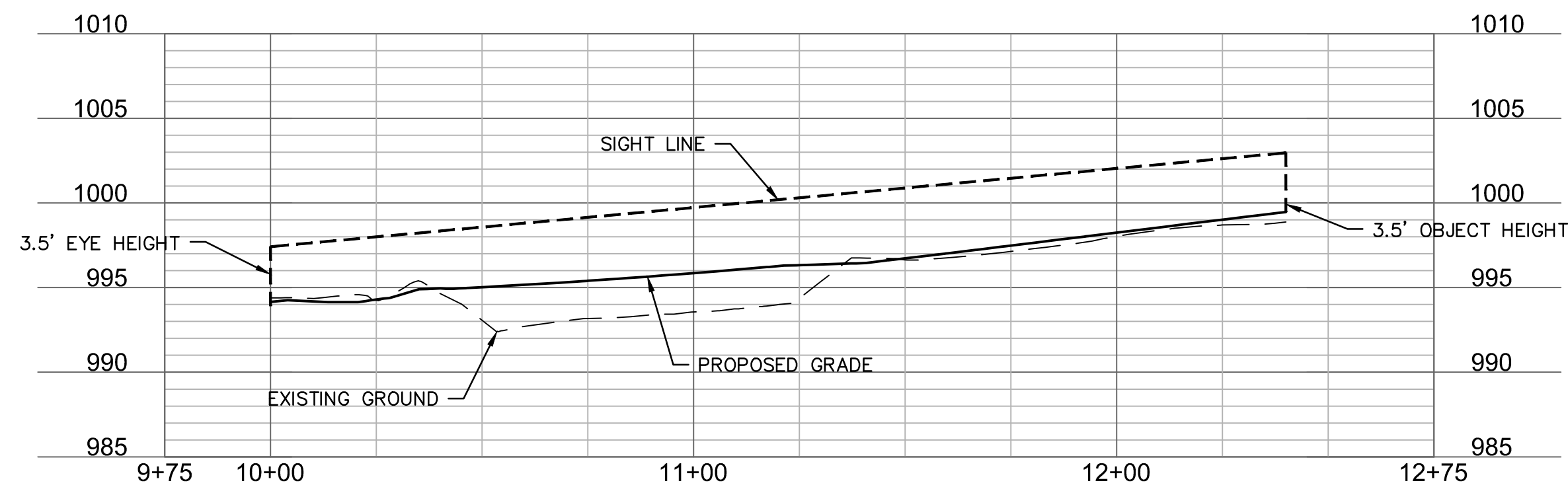
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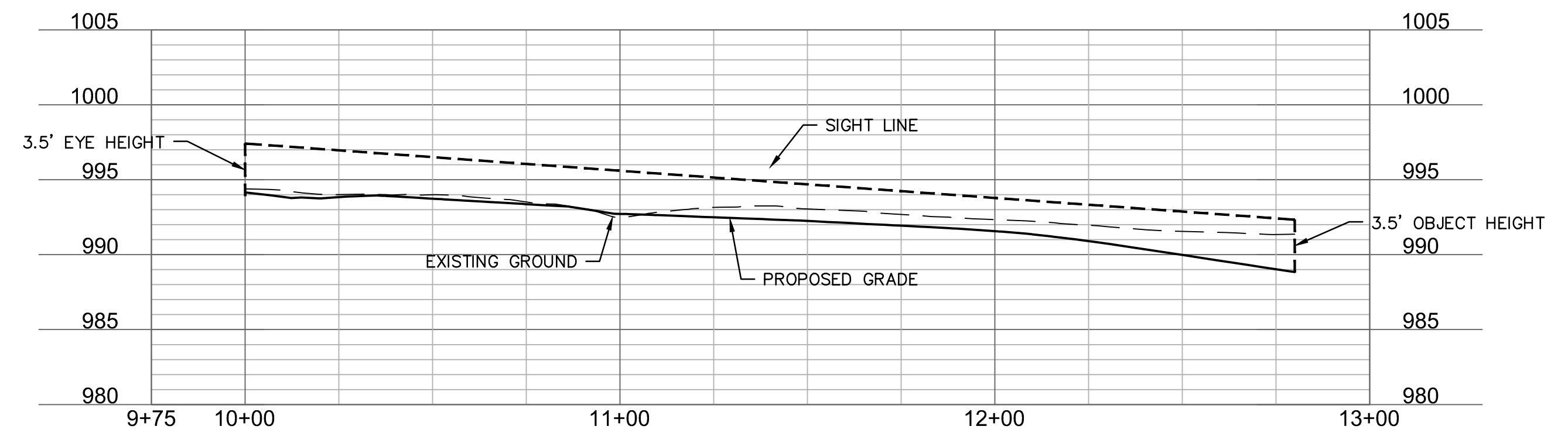
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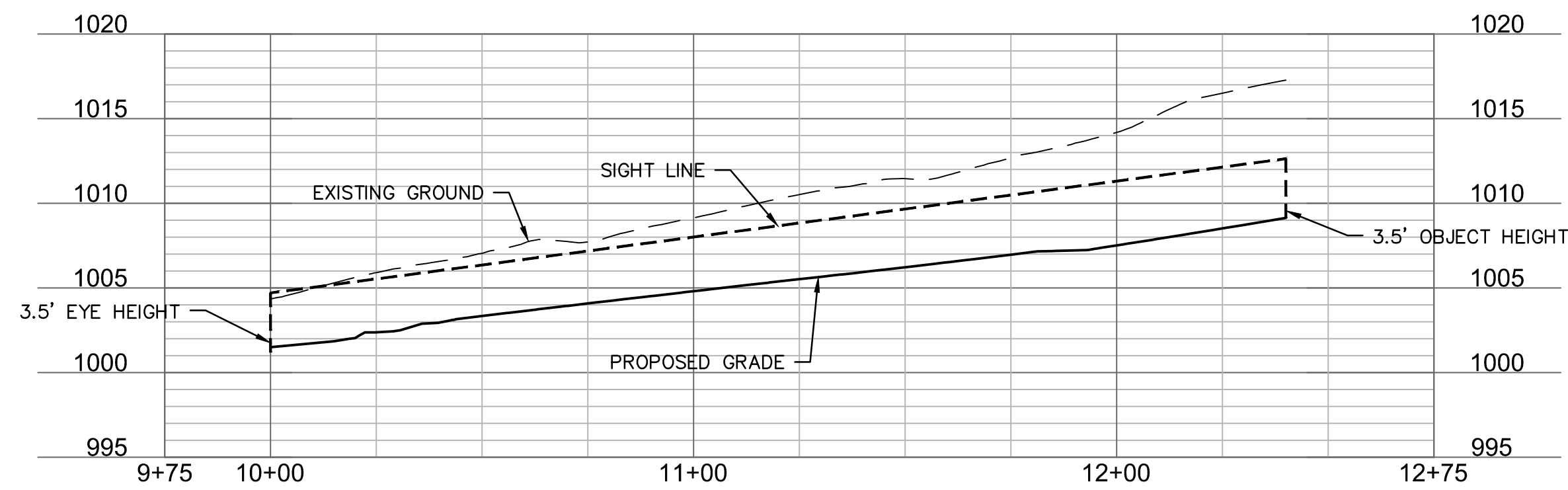
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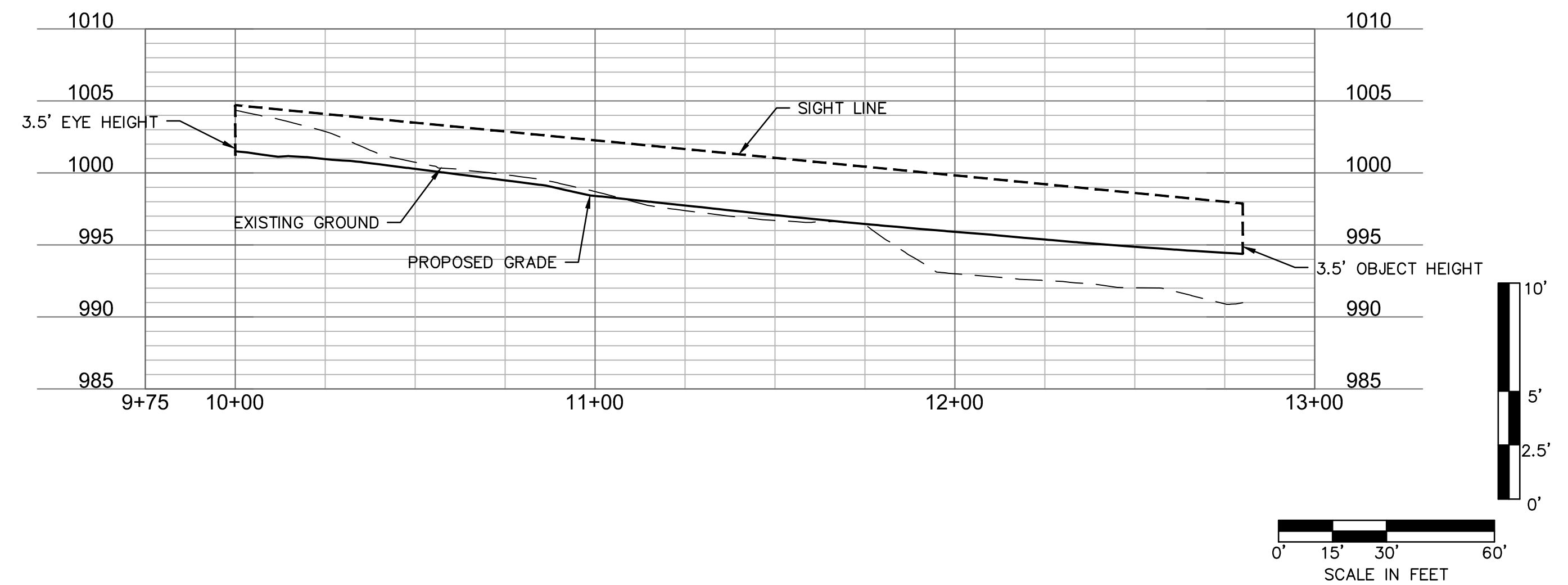
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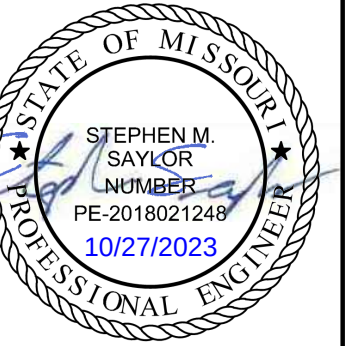


ISD 6-B (9+75 - 13+00)



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INTERSECTION SITE DISTANCE PROFILES

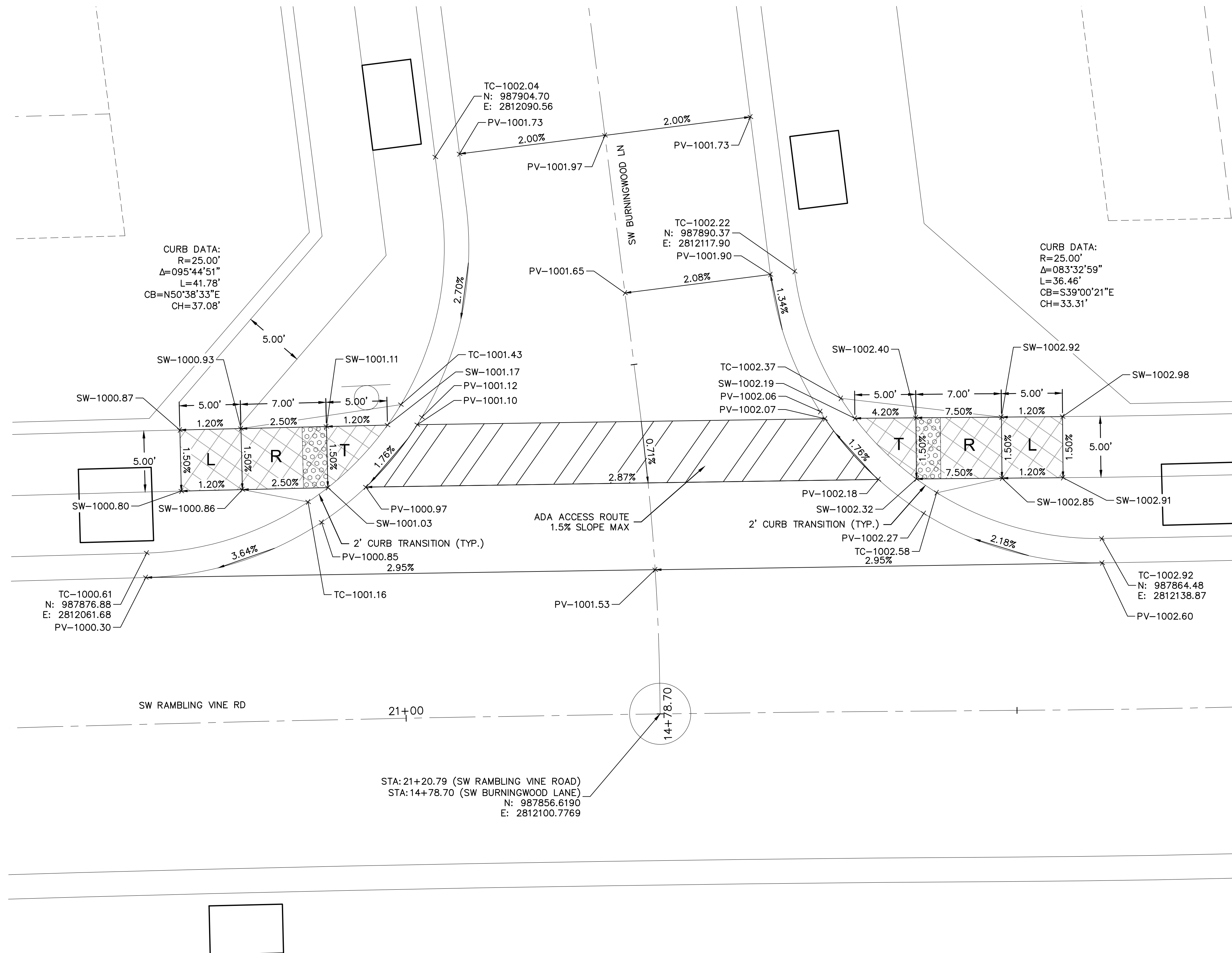
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

Drawn by: _____ CW
 Checked by: _____ SS
 Approved by: _____ JS
 A/QC by: _____ JS
 Project no.: _____ A20-2467
 Drawing no.: C TCP02 A202467
 Date: _____ 10/20/2023

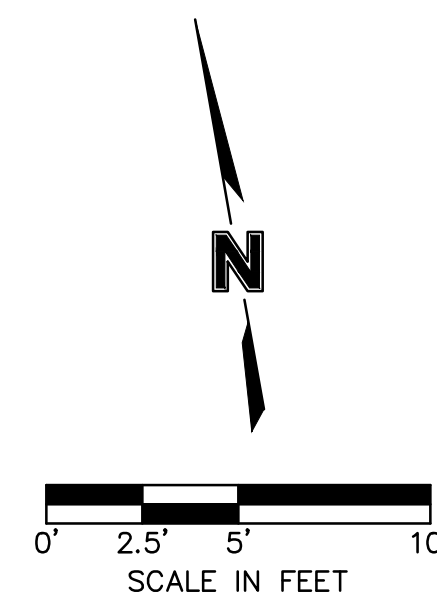
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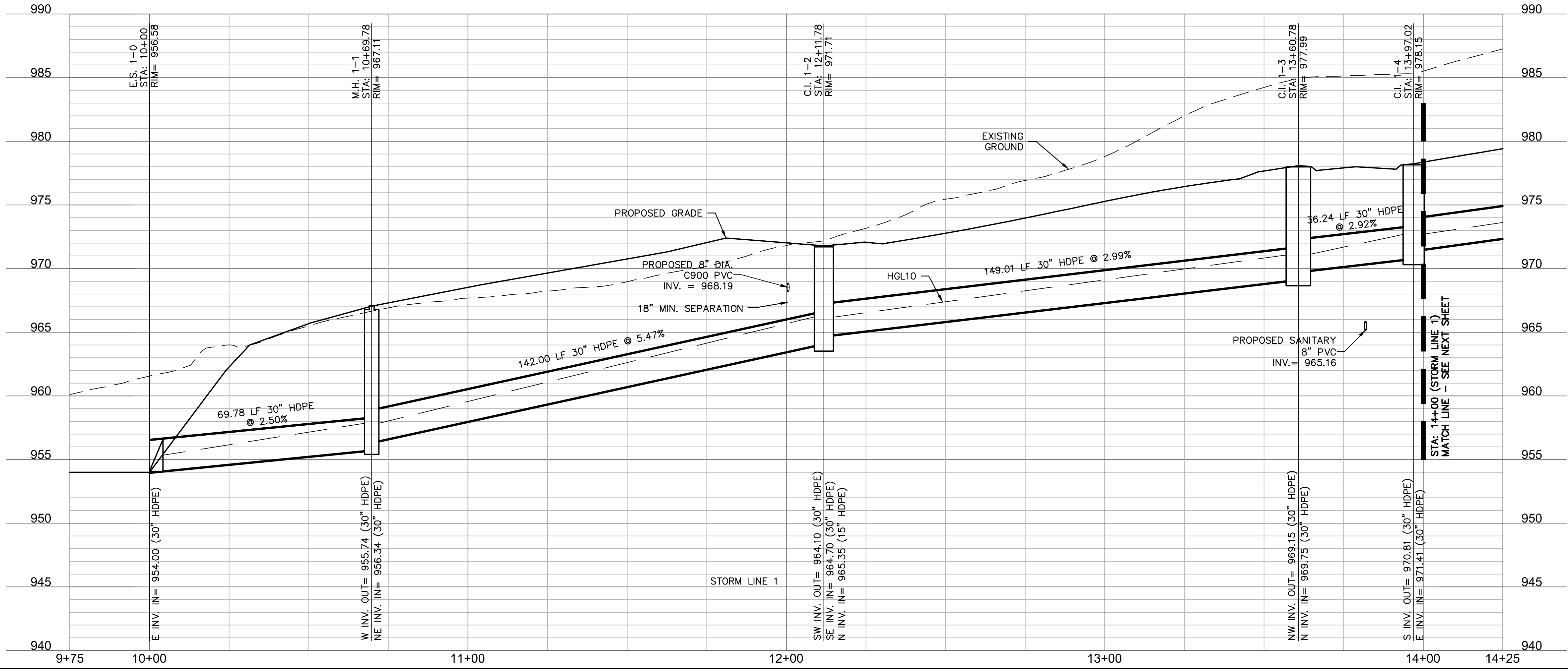
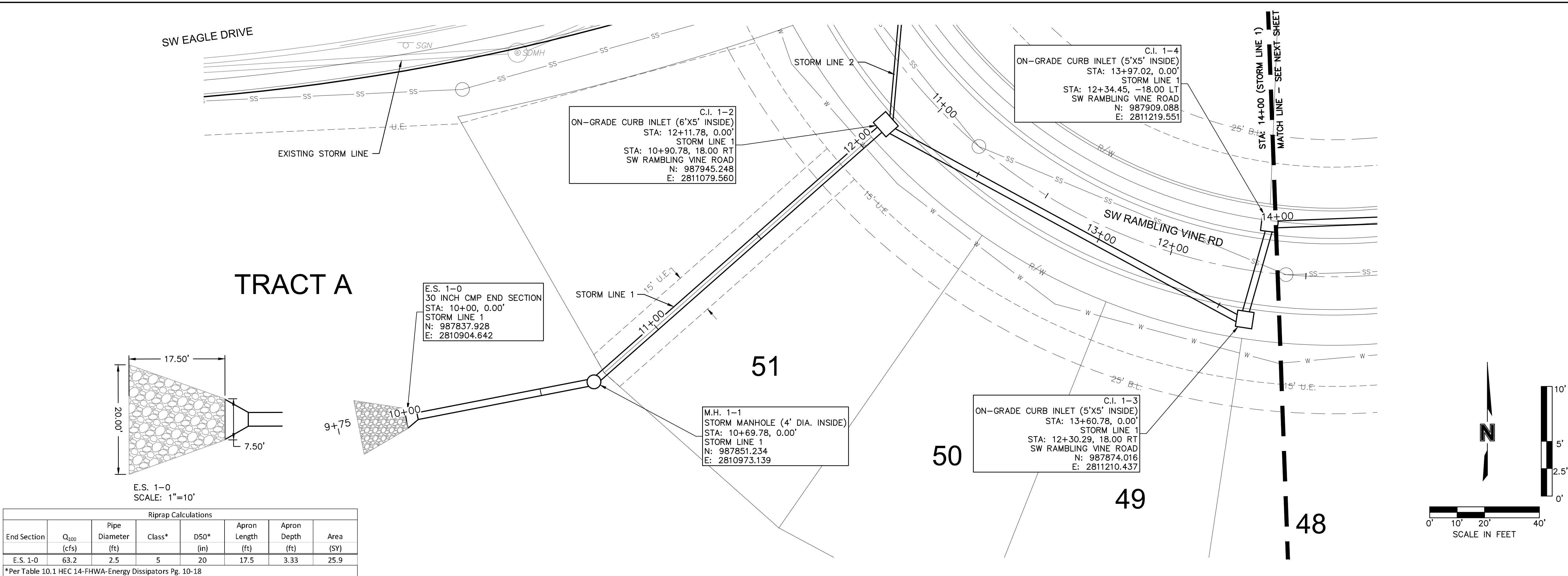
INTERSECTION AND ADA DETAIL NOTES:

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)



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USER: cwoodward



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STORM SEWER PLAN & PROFILE (LINE 1)
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_STM01_A202467
date: 10/20/2023

SHEET
C127

BY

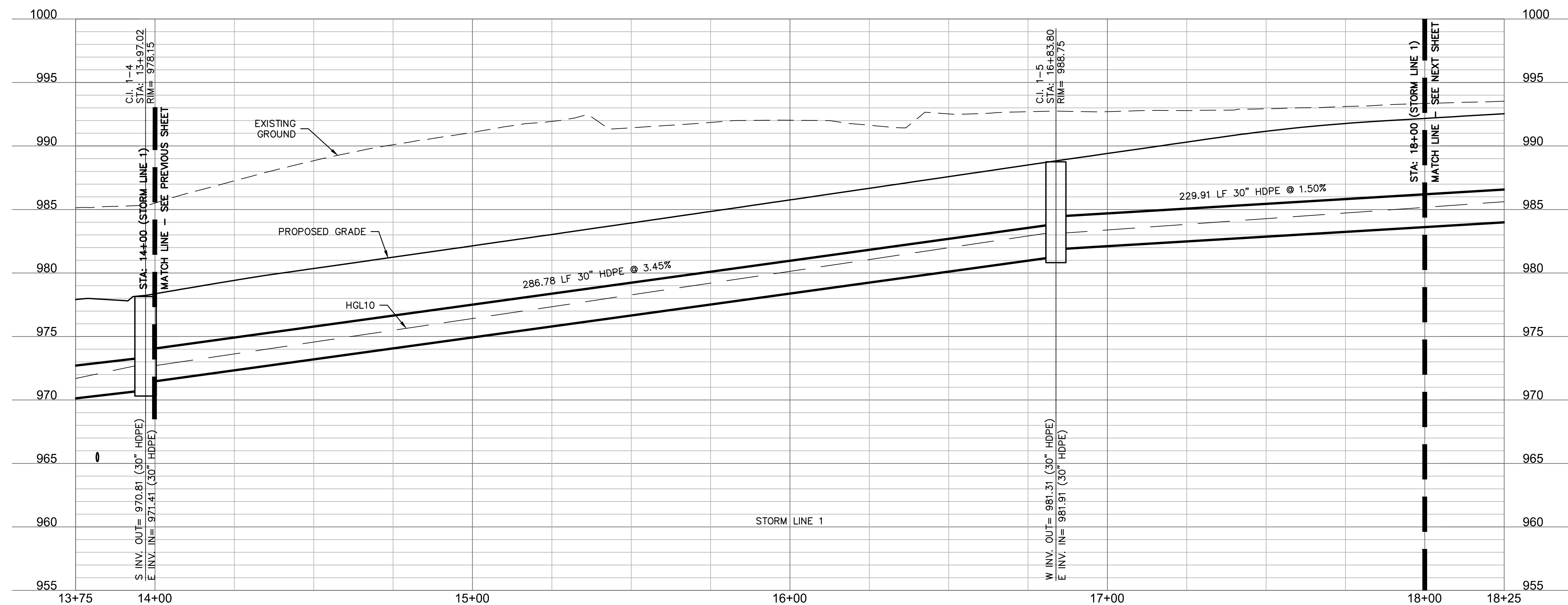
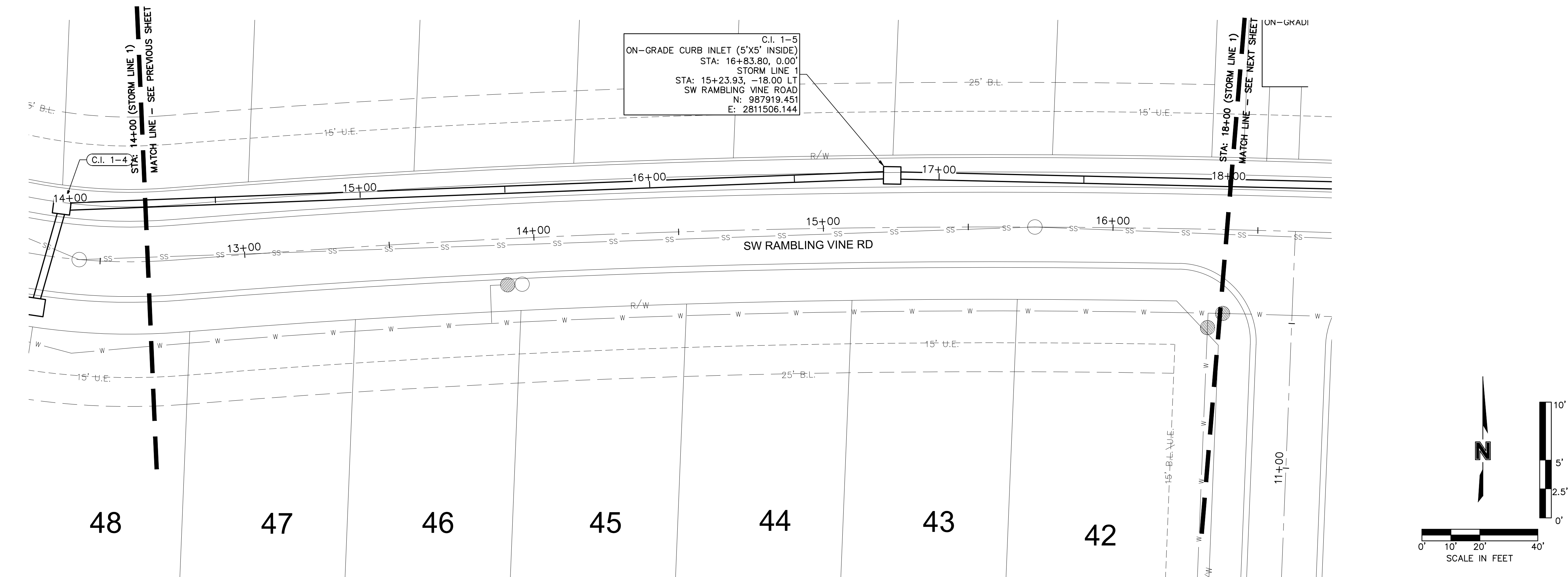
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DATE

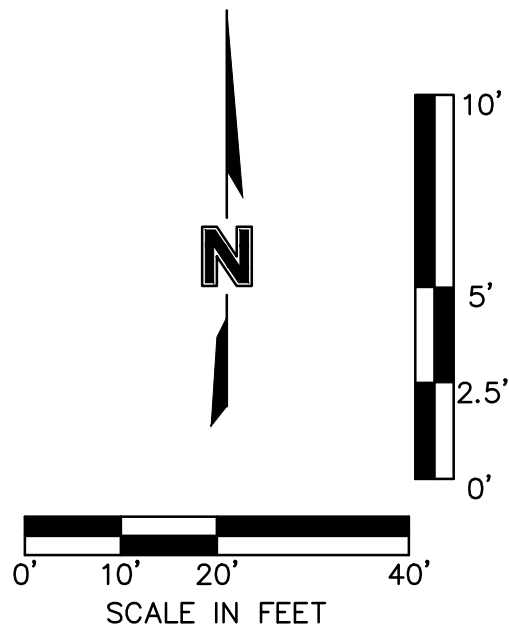
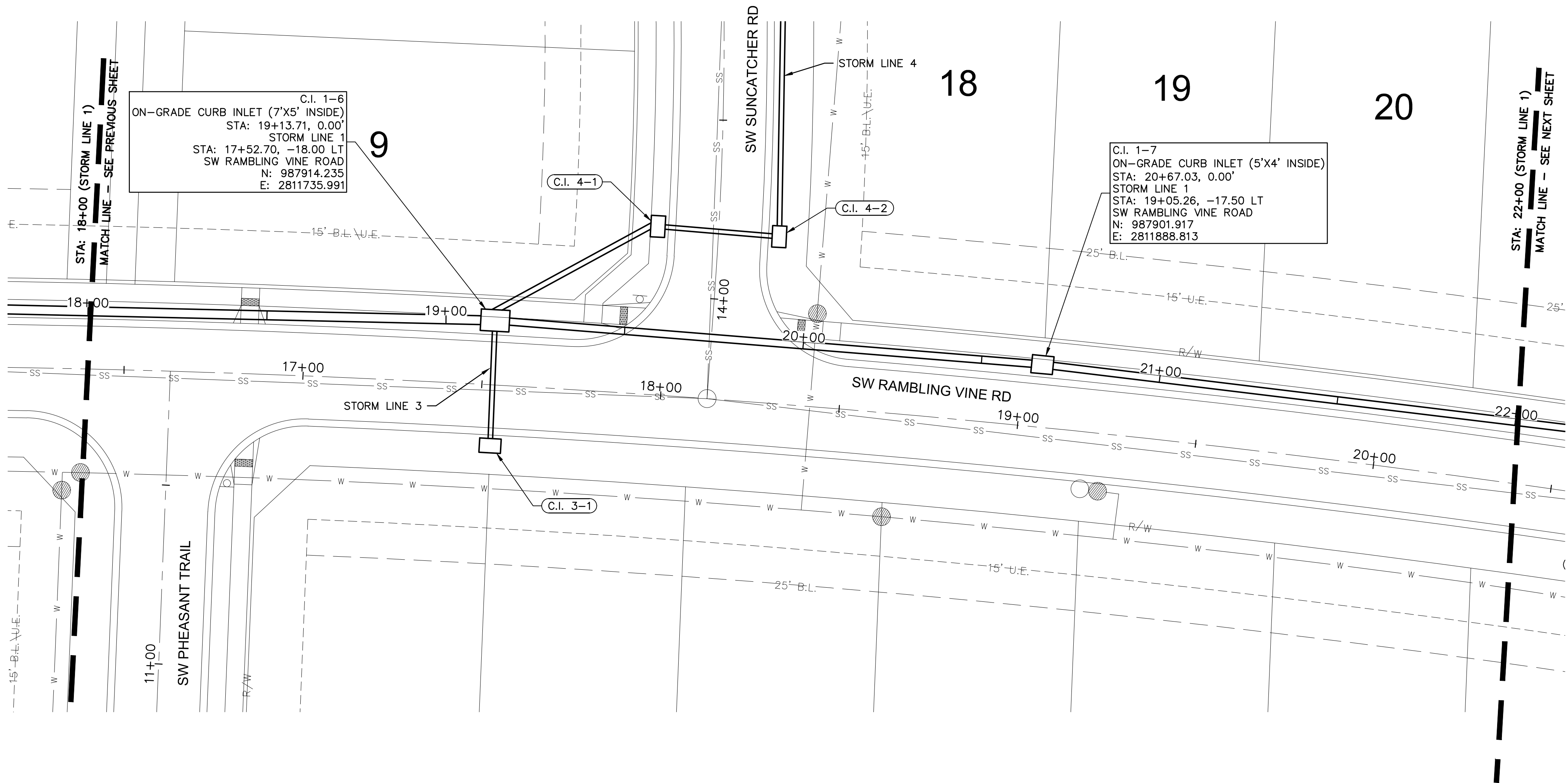
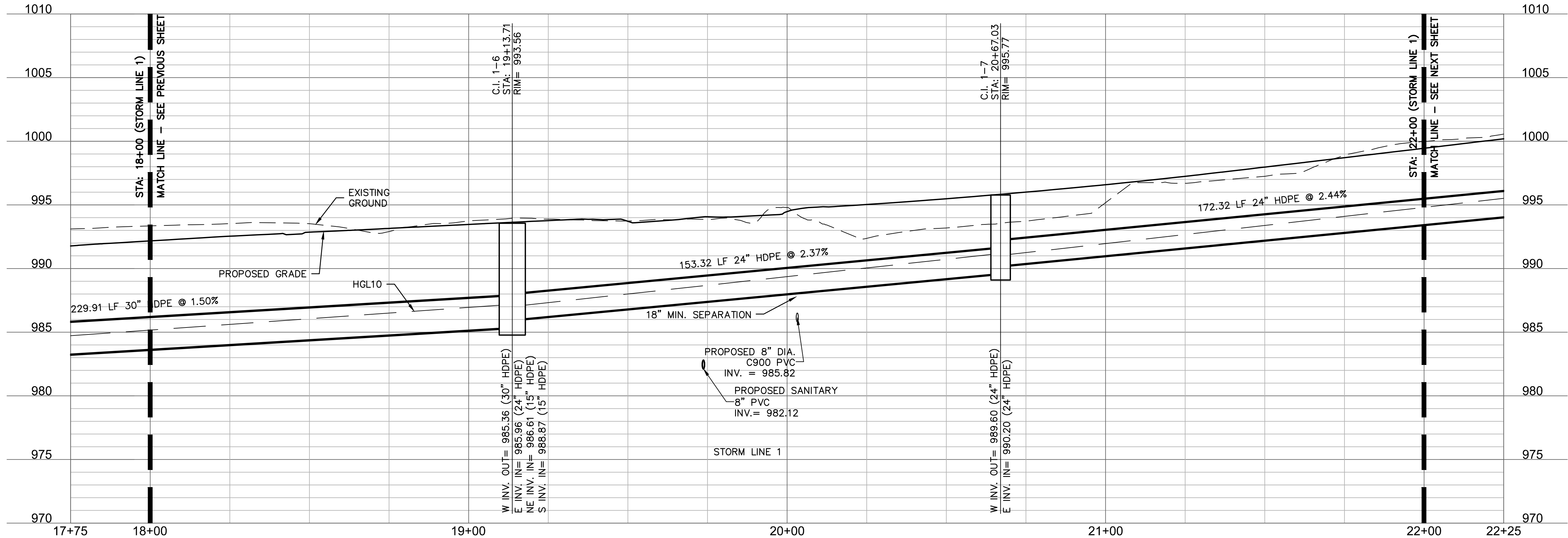
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REVISIONS

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STORM SEWER PLAN & PROFILE (LINE 1) STREET & STORM SEWER PLANS EAGLE CREEK VILLAS FIRST FLAT LEE'S SUMMIT, MISSOURI					
drawn by: _____ checked by: _____ approved by: _____ QA/QC by: _____ project no.: A20-2467 drawing no.: C_STM01_A202467 date: 10/20/2023	CW	SS	JS	JS	
SHEET C128					



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STEPHEN M. SAYLOR
NUMBER
PE-2018021249
10/27/2023
PROFESSIONAL ENGINEER

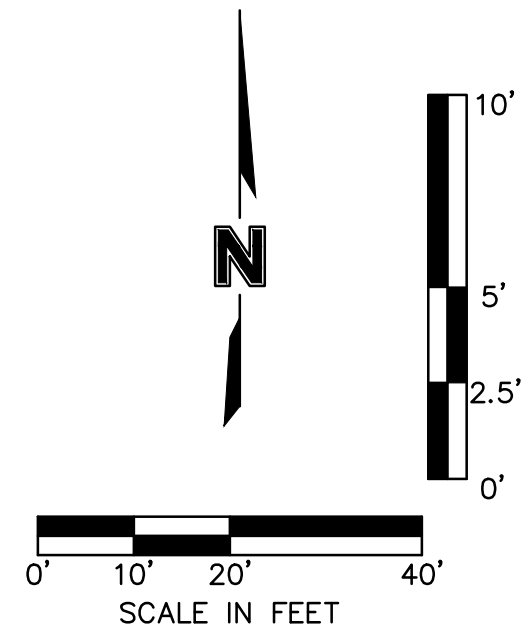
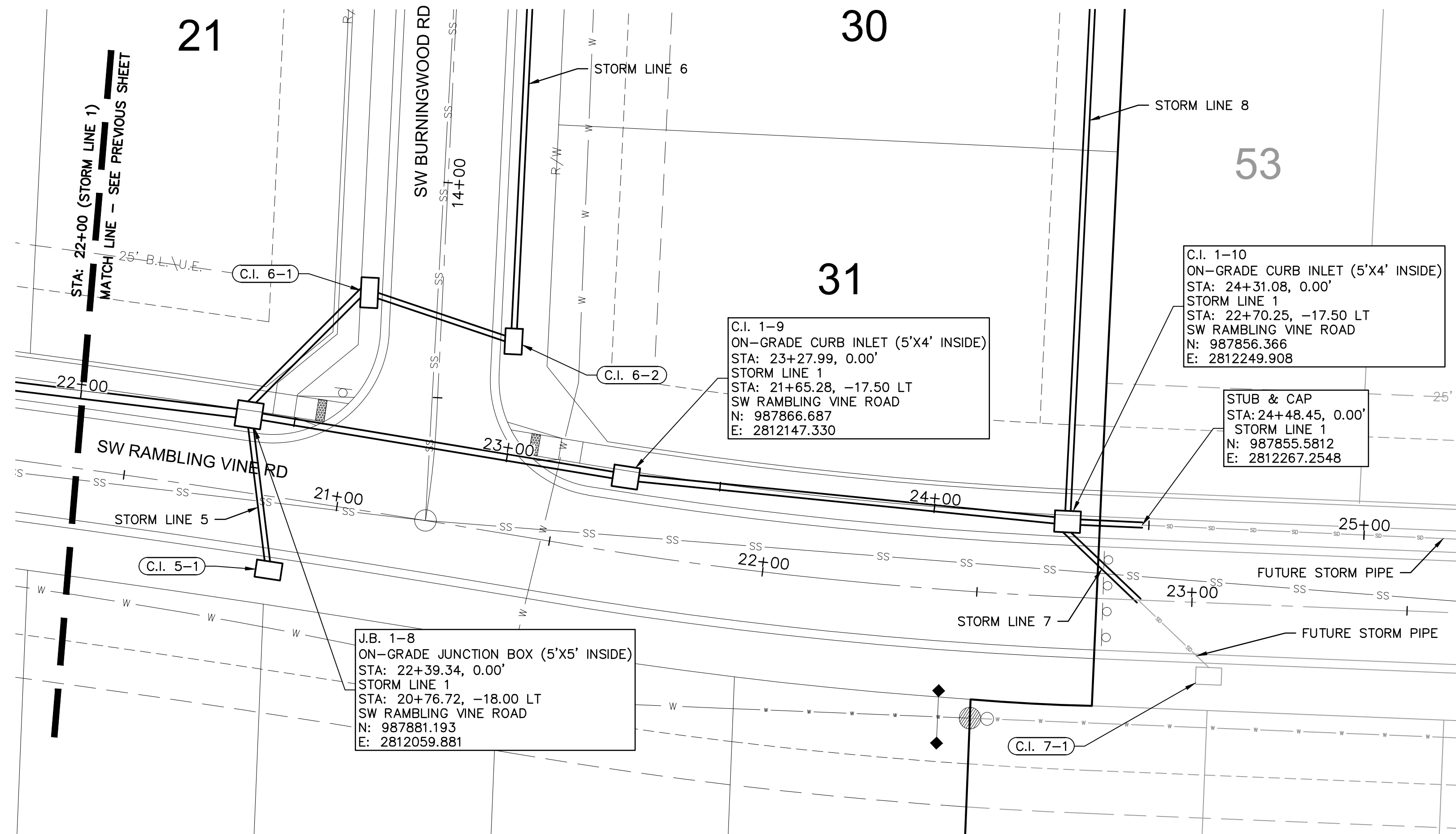
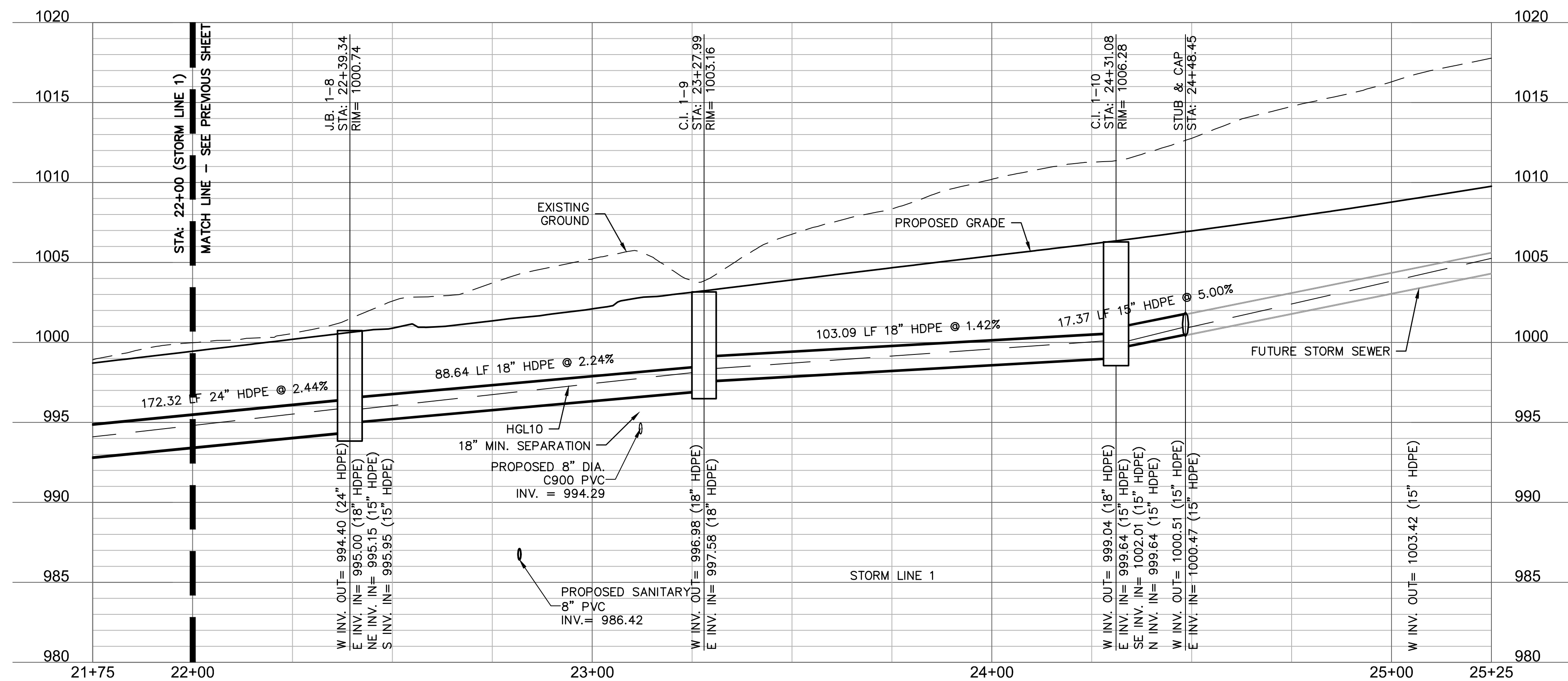
BY
REV. NO.
DATE
REVISIONS DESCRIPTION

2023
STORM SEWER PLAN & PROFILE (LINE 1)
STREET & STORM SEWER PLANS
EAGLE CREEK VILLAS
FIRST PLAT
LEE'S SUMMIT, MISSOURI

drawn by: _____ CW
checked by: _____ SS
approved by: _____ LS
QA/QC by: _____ JS
project no.: A20-2467
drawing no.: C_STM01_A202467
date: 10/20/2023

SHEET
C129


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67 USER: cwoodward
C_PBNDY_
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STORM SEWER PLAN & PROFILE (LINE 1) 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_STM01 A202467

date: _____ 10/20/2023

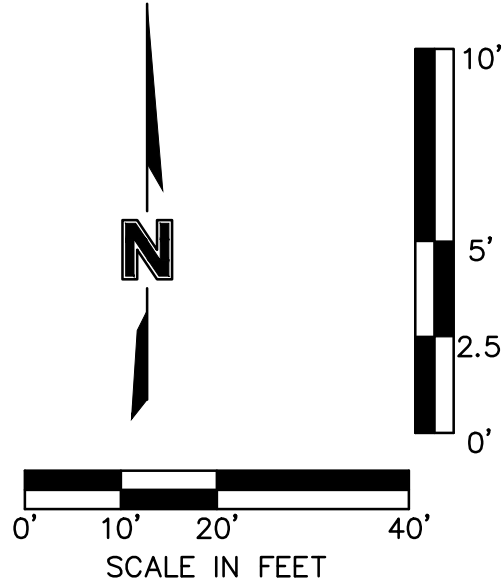
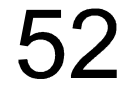
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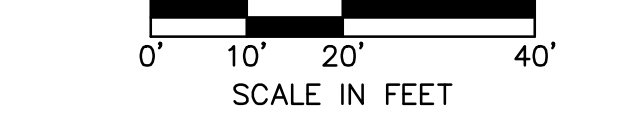
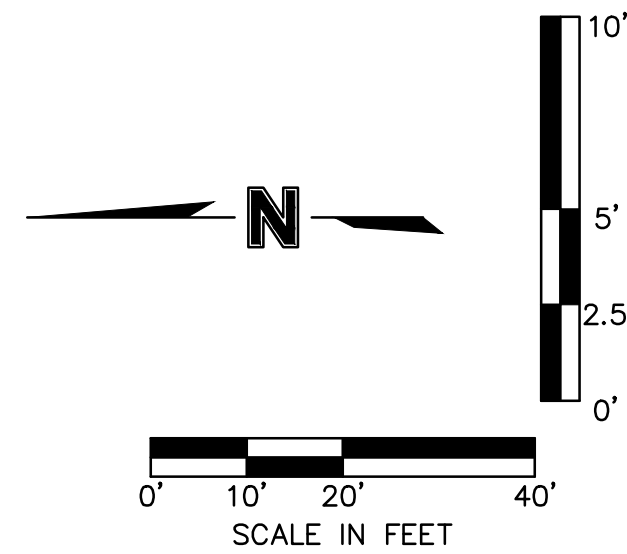
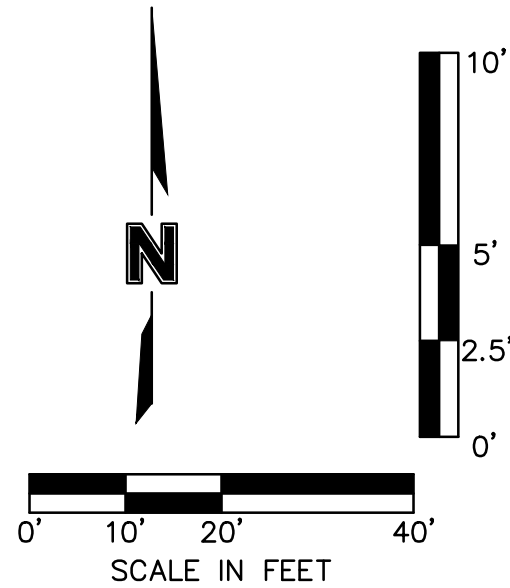
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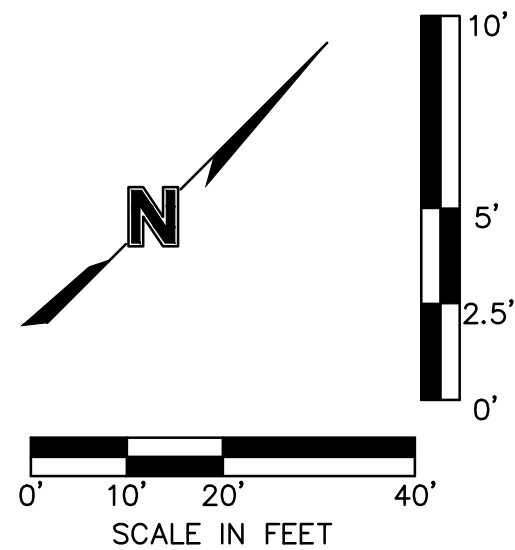
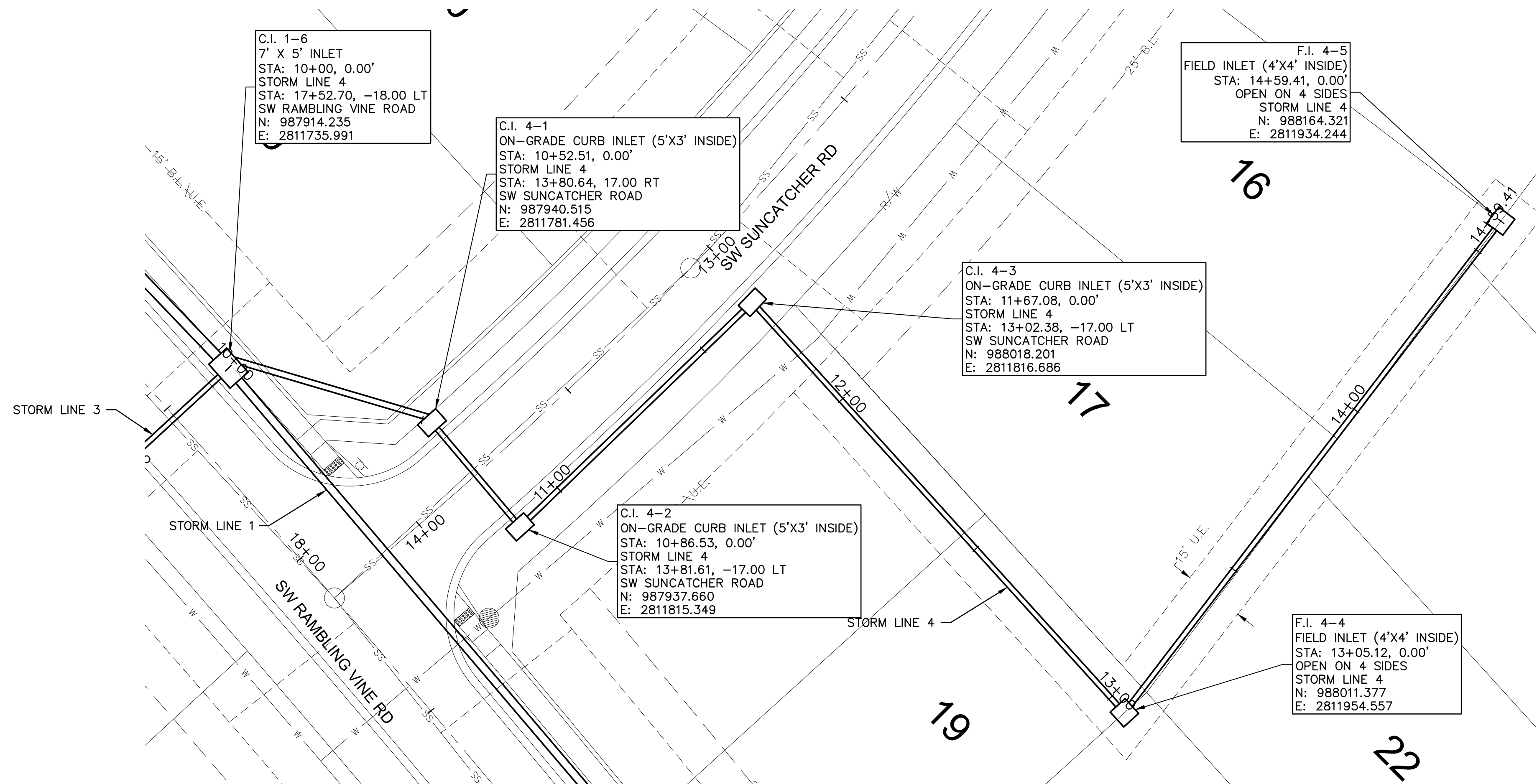
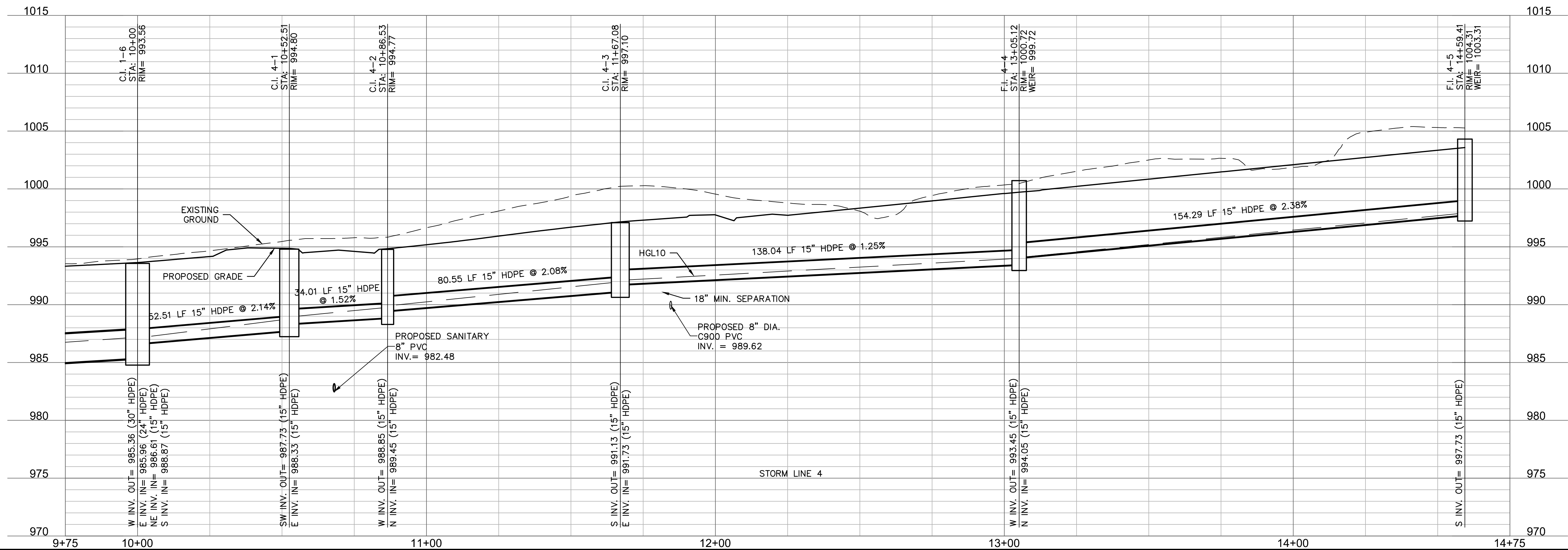
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LEE'S SUMMIT, MISSOURI	2023

drawn by: _____	CW
checked by: _____	SS
approved by: _____	JS
QA/QC by: _____	JS
project no.: _____	A20-2467
drawing no.: _____	C. STM02. A202467
date: _____	10/20/2023

SHEET

C132

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

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: _____ CW
checked by: _____ SS
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project no.: _____ A20-2467
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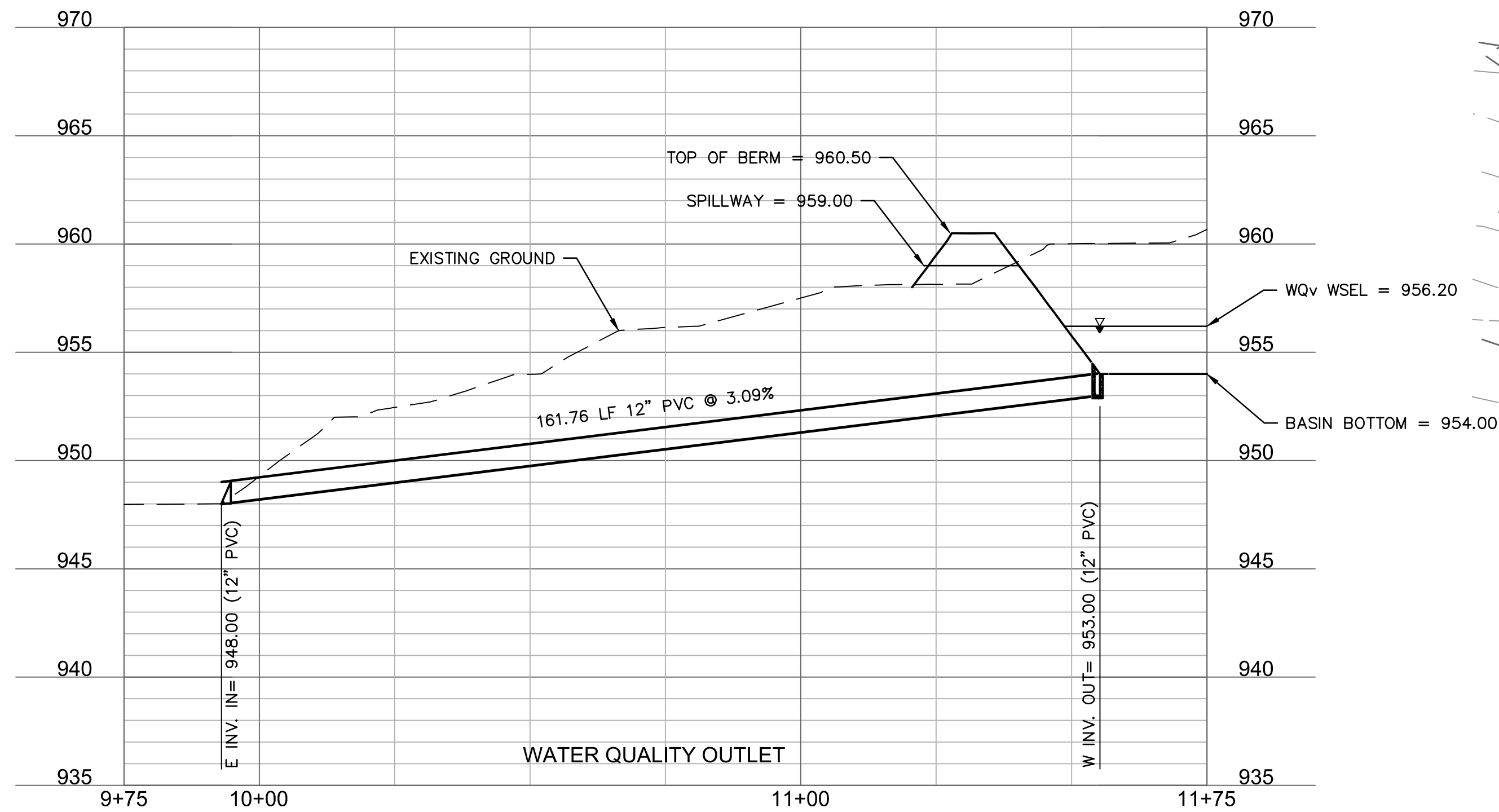
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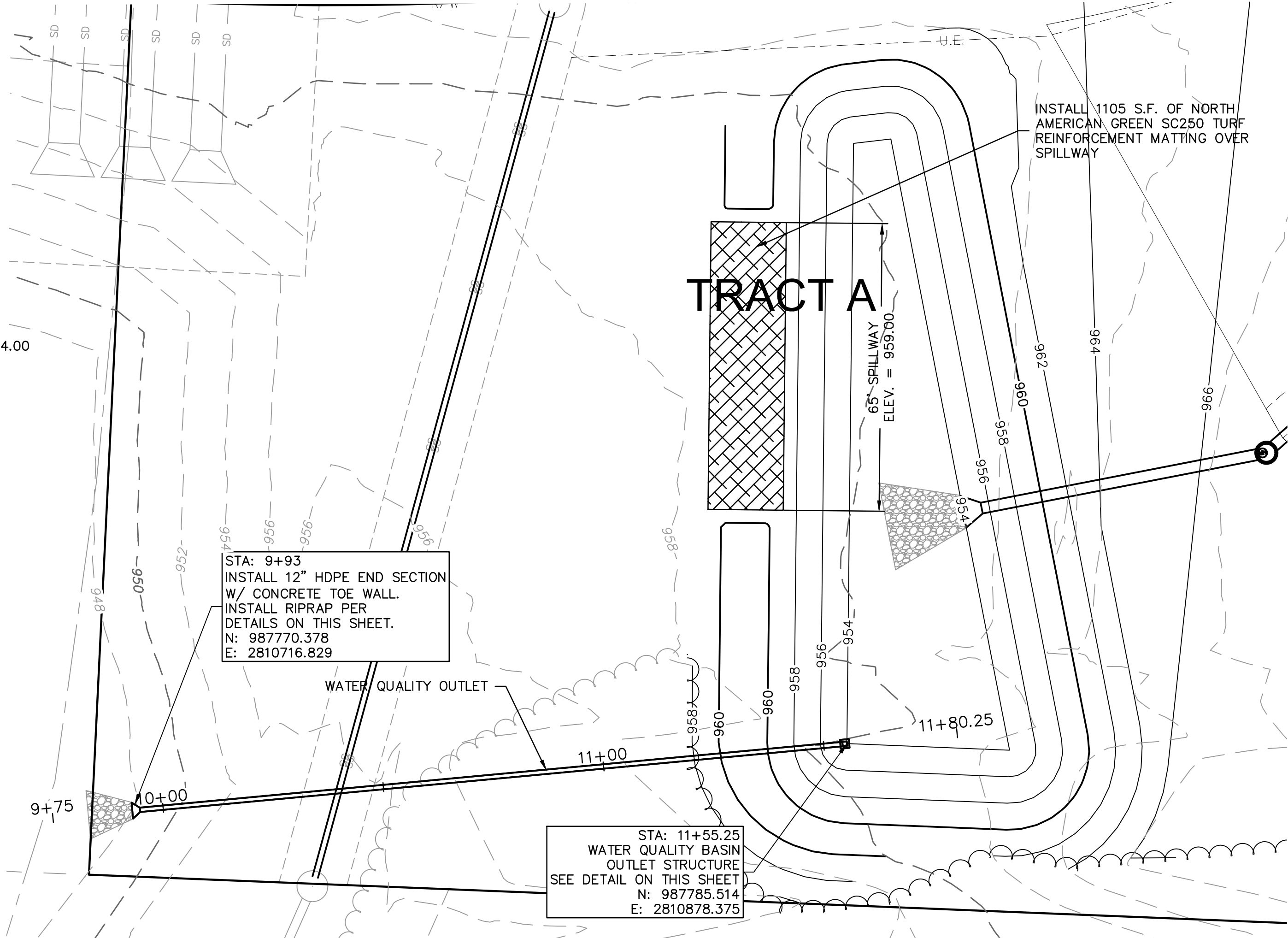
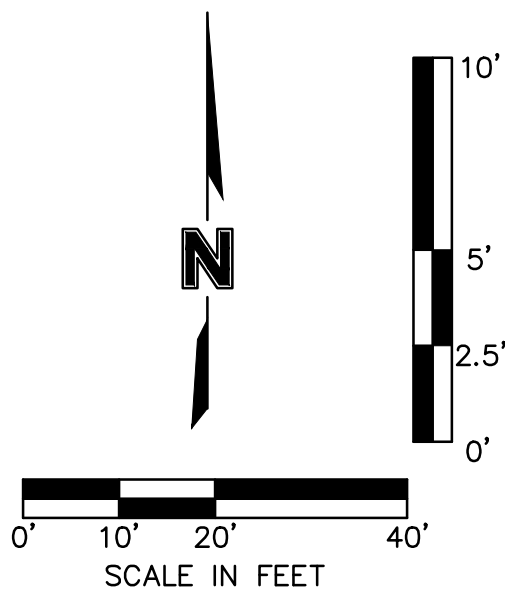
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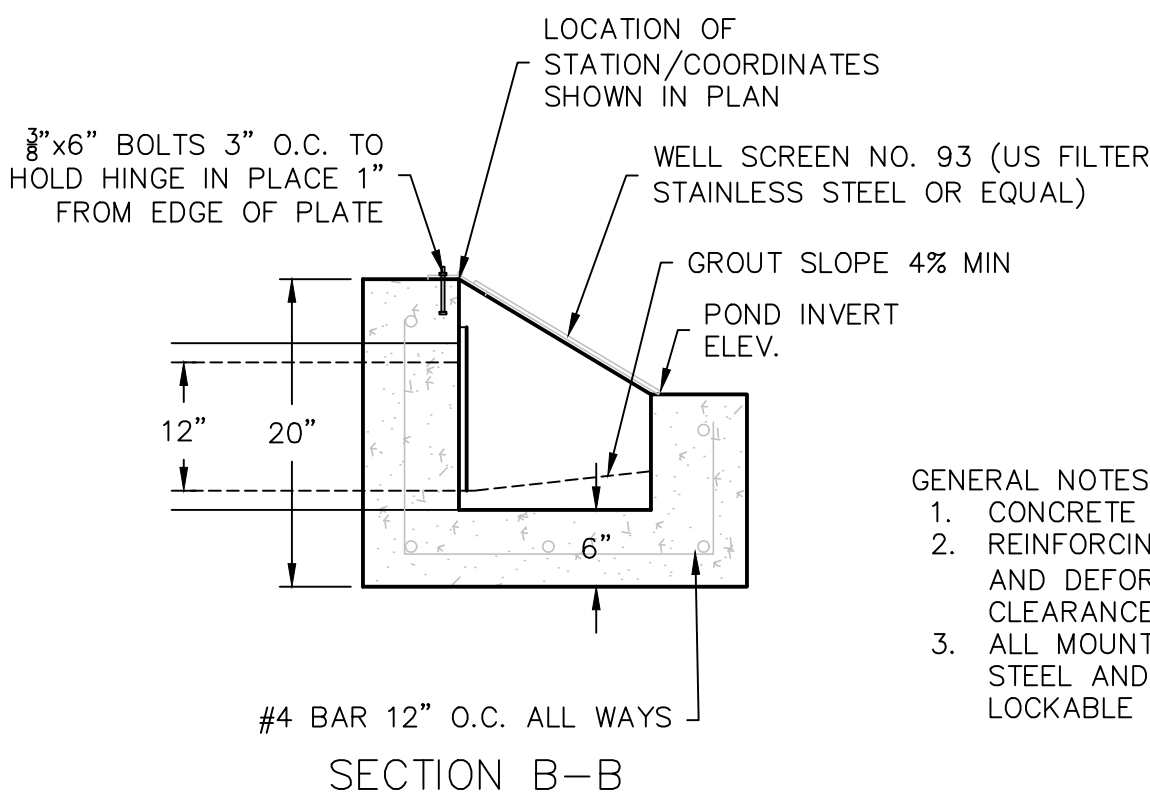
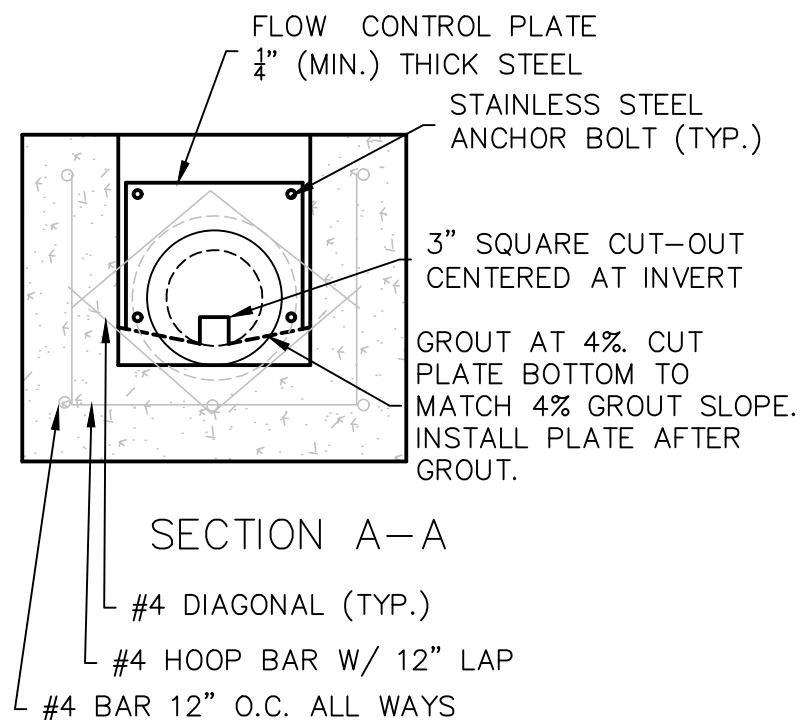
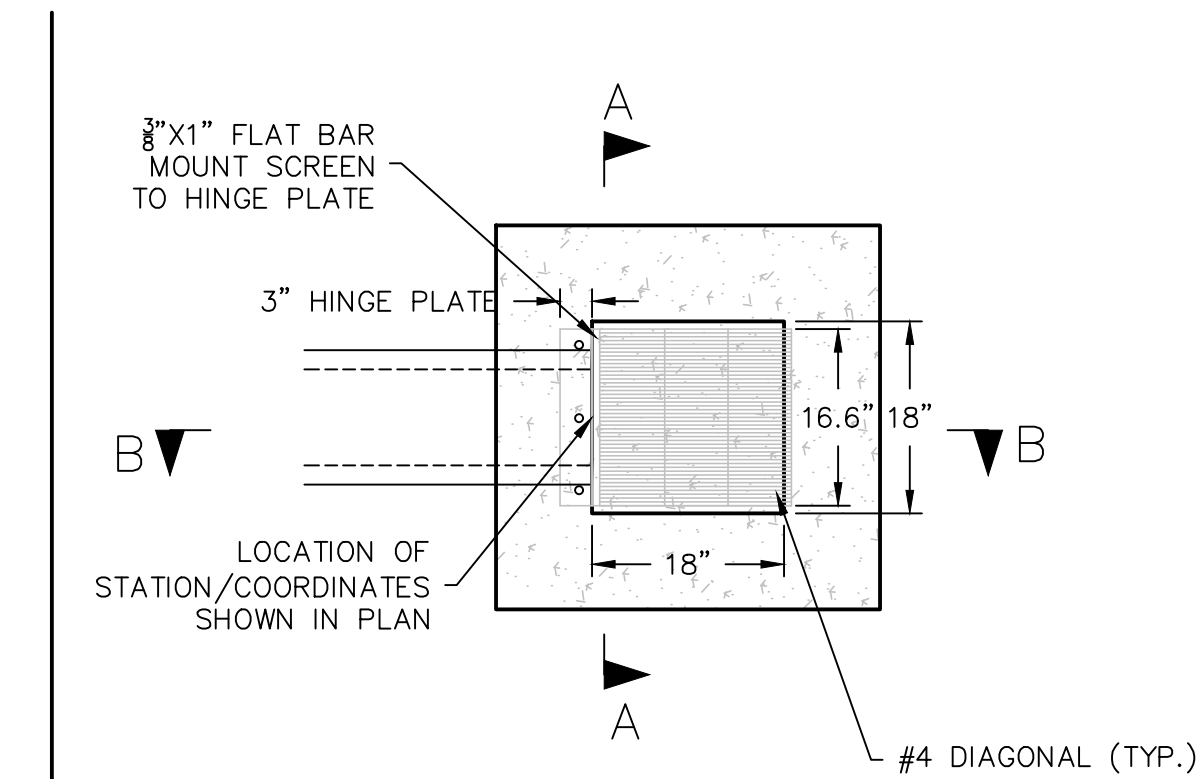


BASIN DETAILS	
SPILLWAY TYPE	BROAD CRESTED WEIR
SPILLWAY LENGTH	65 FT
SPILLWAY ELEVATION	959.00 FT
SPILLWAY DEPTH	1.50 FT
DAM ELEVATION	960.50 FT
WATER QUALITY STORM WATER SURFACE ELEVATION	956.20 FT
DESIGN STORAGE	28,703 CF

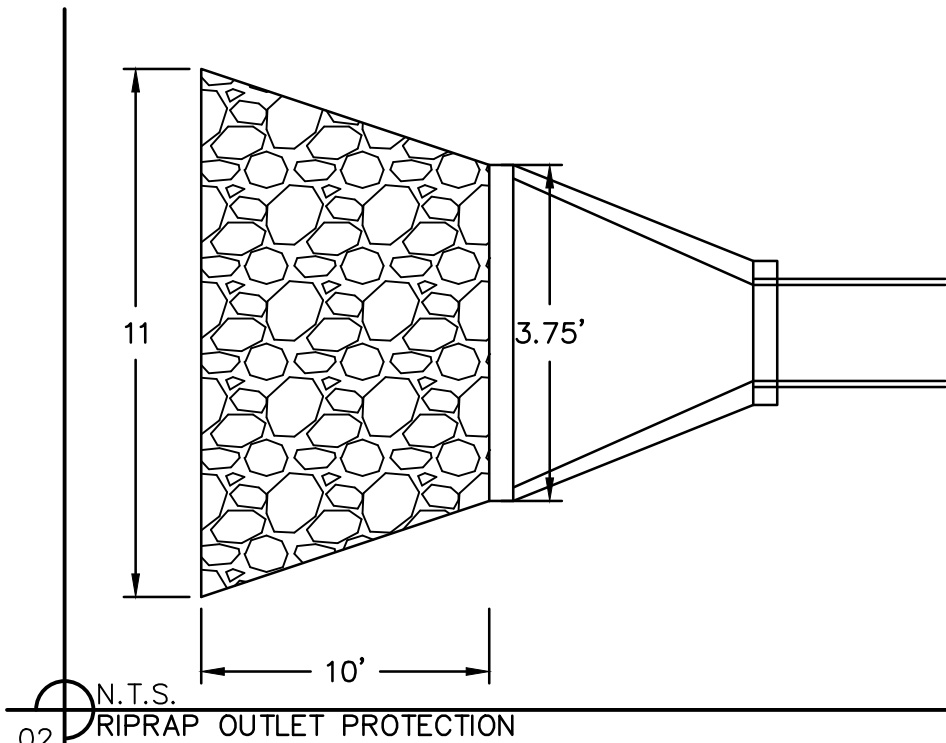


Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class* (in)	D50* (ft)	Apron Length (ft)	Apron Depth (ft)
WQy Outlet	12.97	1	5	20	7	3.33
Area (SV)						
						4.1

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



- GENERAL NOTES:
1. CONCRETE SHALL BE CLASS B
 2. REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED, AND SHALL HAVE MINIMUM 2" CLEARANCE.
 3. ALL MOUNTING HARDWARE TO BE STAINLESS STEEL AND PROVIDED WITH HINGES AND LOCKABLE OR BOLTABLE ACCESS.



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

02 N.T.S. RIPRAP OUTLET PROTECTION

WATER QUALITY BASIN PLAN
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY



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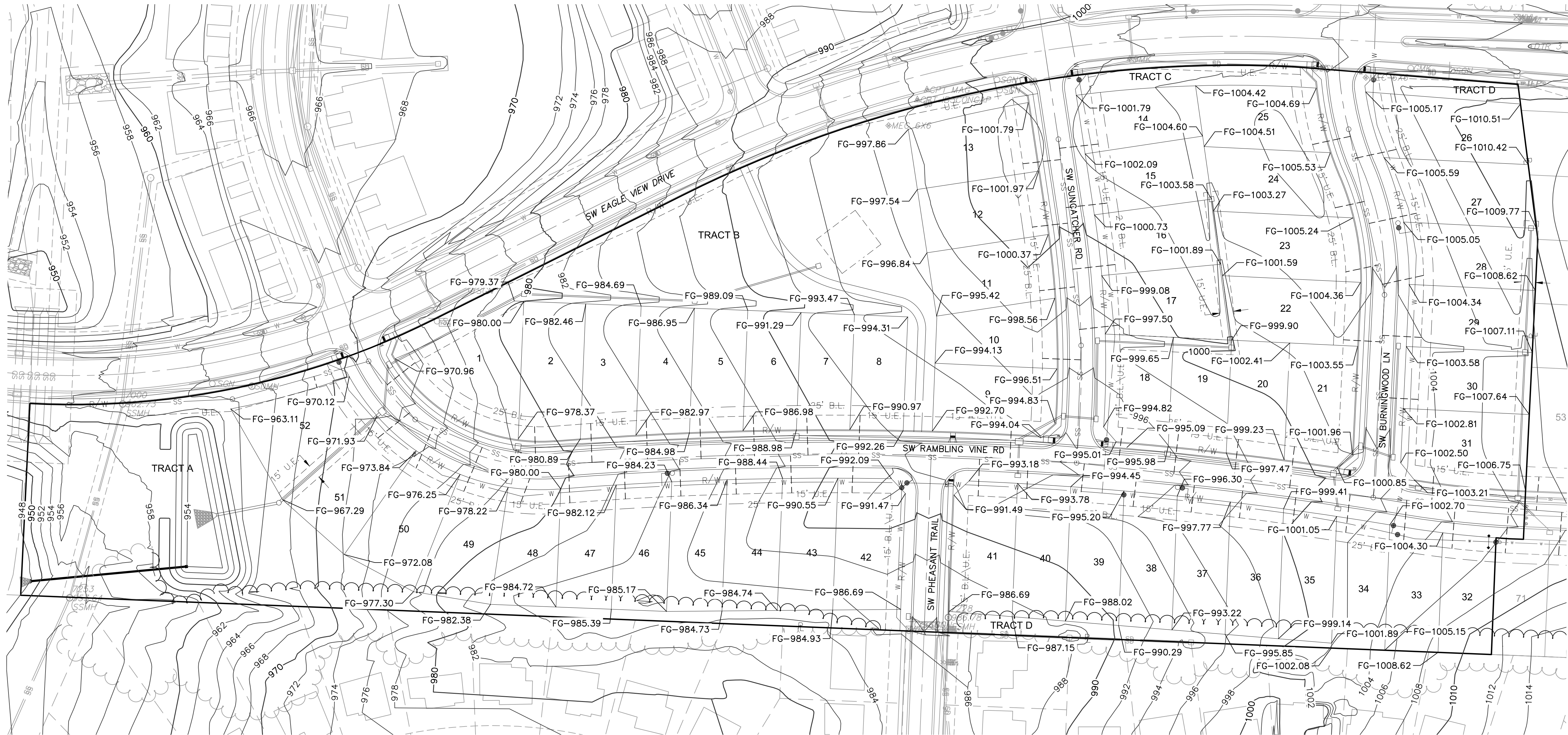
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North Kansas City MO 64116

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drawn by: C/W
checked by: S/S
approved by: L/S
QA/QC by: J/S
project no.: A20-2467
drawing no.: C_DBP01_A202467
date: 10/20/2023

SHEET
C137

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DATE: Oct 27, 2023 1:05pm



NOTES:

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.

2. PLAT IS LOCATION IN ZONE X; "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANCE SHEET FLOW FLOODING WHERE THE AVERAGE DEPTHS ARE LESS THAN 1 FOOT, AREAS OF 1-PERCENT ANNUAL CHANCE STREAM FLOODING WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 SQUARE MILE, OR AREAS PROTECTED FROM THE 1-PERCENT ANNUAL CHANCE FLOOD BY LEVEES. NO BASE FLOOD ELEVATIONS OR DEPTHS ARE SHOWN WITHIN THIS ZONE"

3. PLAT IS LOCATED OUTSIDE OF ANY
REQUIRED BUFFER ZONES FOR NATURAL
STREAMS.

4. MBOE ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN THE RIGHT AND LEFT SIDE MBOE'S SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.

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.

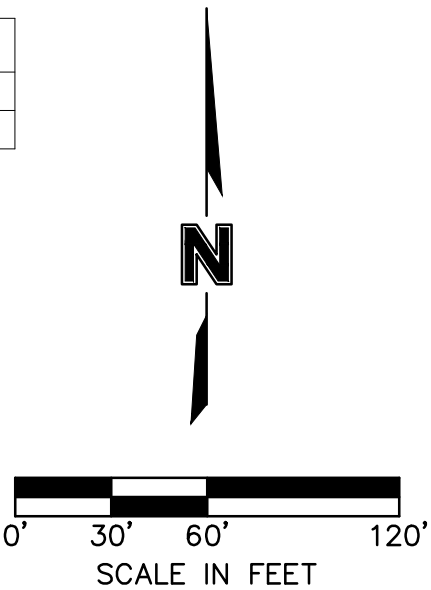
7. NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.

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.			

NOTES:

FG - FINISHED GRADE

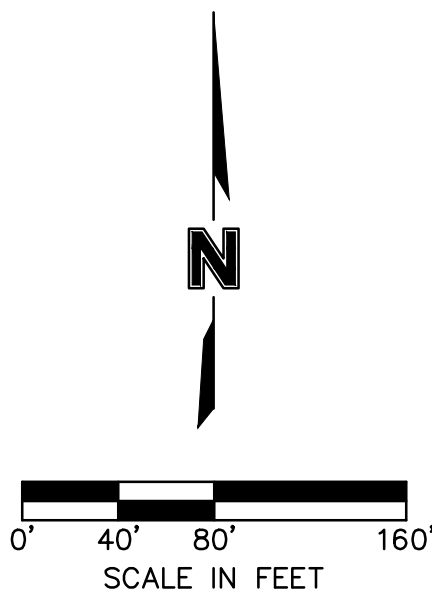
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	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS



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



DRAINAGE PLAN STREET & STORM SEWER PLANS	drawn by: _____ CWJ checked by: _____ SS approved by: _____ JS QA/QC by: _____ JS project no.: _____ A20-2467 drawing no.: C DRN02 A202467 date: _____ 10/20/2023	REV. NO.	DATE	REVISIONS DESCRIPTION	BY
	EAGLE CREEK VILLAS FIRST PLAT				
LEE'S SUMMIT, MISSOURI	2023	REVISIONS			



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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.

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	981.31	971.41	3.45	30	0.012	47.82	11.81	82.55	1.71	983.58	
C.I. 1-6	C.I. 1-5	229.91	985.36	981.91	1.50	30	0.012	45.24	11.1	54.43	1.74	987.59	
C.I. 1-7	C.I. 1-6	153.32	989.60	985.96	2.37	24	0.012	29.05	10.1	37.75	1.63	991.45	
J.B. 1-8	C.I. 1-7	172.32	994.40	990.20	2.44	24	0.012	25.94	10.69	38.27	1.25	996.19	
C.I. 1-9	J.B. 1-8	88.64	996.98	995.00	2.23	18	0.012	14.58	9.11	17	1.19	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	
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	987.73	986.61	2.13	15	0.012	9.24	8.37	10.22	0.98	988.89	
C.I. 4-2	C.I. 4-1	34.01	988.85	988.33	1.53	15	0.012	7.69	7.35	8.65	0.92	989.95	
C.I. 4-3	C.I. 4-2	80.55	991.13	989.45	2.09	15	0.012	5.73	7.05	10.1	0.67	992.1	
F.I. 4-4	C.I. 4-3	138.04	993.45	991.73	1.25	15	0.012	3.03	5.12	7.81	0.54	994.15	
F.I. 4-5	F.I. 4-4	154.29	997.73	994.05	2.39	15	0.012	0.2	2.68	10.8	0.12	997.9	
C.I. 5-1	J.B. 1-8	36.34	996.50	995.95	1.51	15	0.012	2.63	5.12	8.61	0.47	997.15	
C.I. 6-1	J.B. 1-8	39.78	996.00	995.15	2.14	15	0.012	8.73	7.71	10.23	1.04	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	

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

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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-2018021249

10/27/2023

PROFESSIONAL ENGINEER

BY

REV. NO.

DATE

REVISIONS DESCRIPTION

2023

REVISIONS

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

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

drawn by: _____ C/W

checked by: _____ SS

approved by: _____ JS

QA/QC by: _____ JS

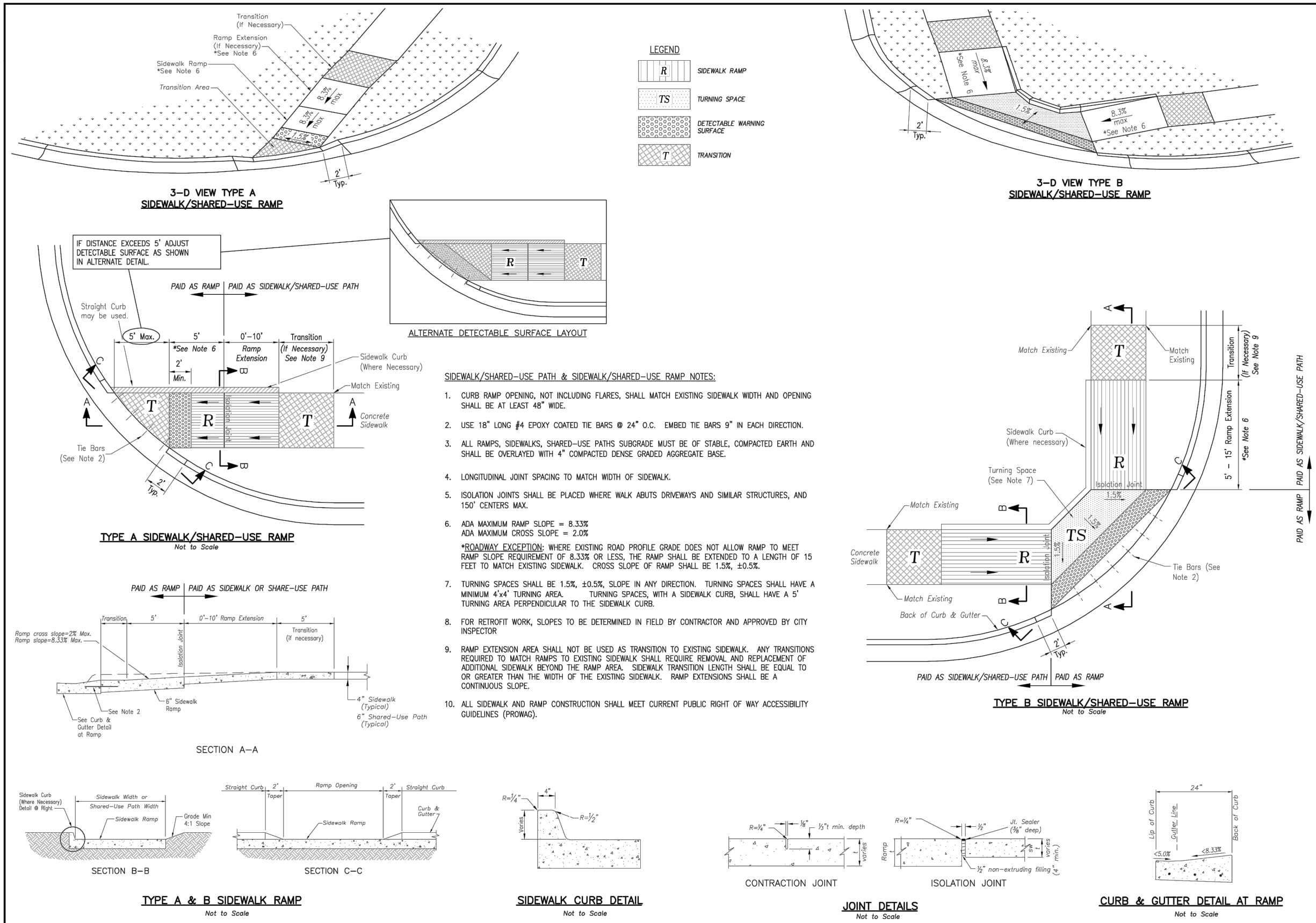
project no.: A20-2467

drawing no.: C_DRN02_A202467

date: 10/20/2023

SHEET

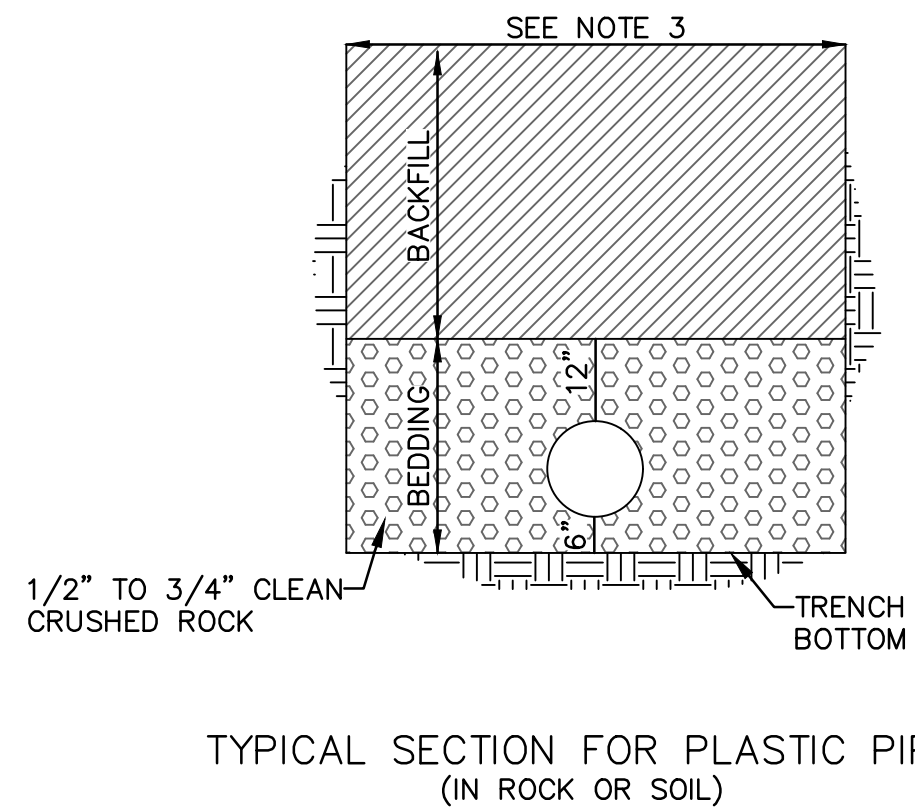
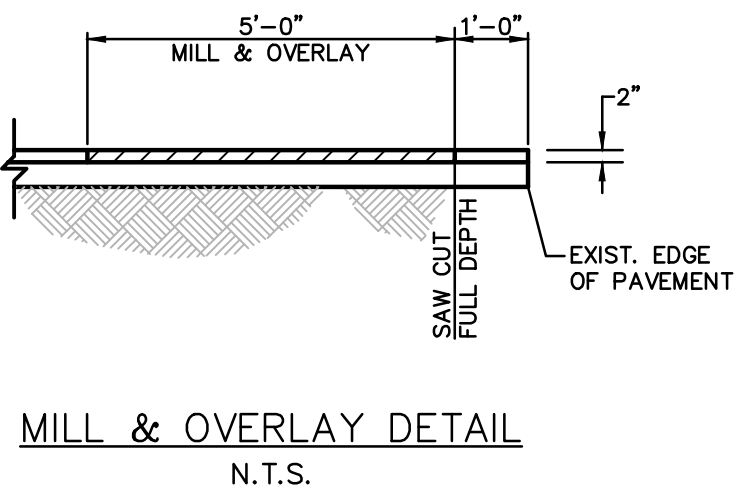
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LEE'S SUMMIT
MISSOURI

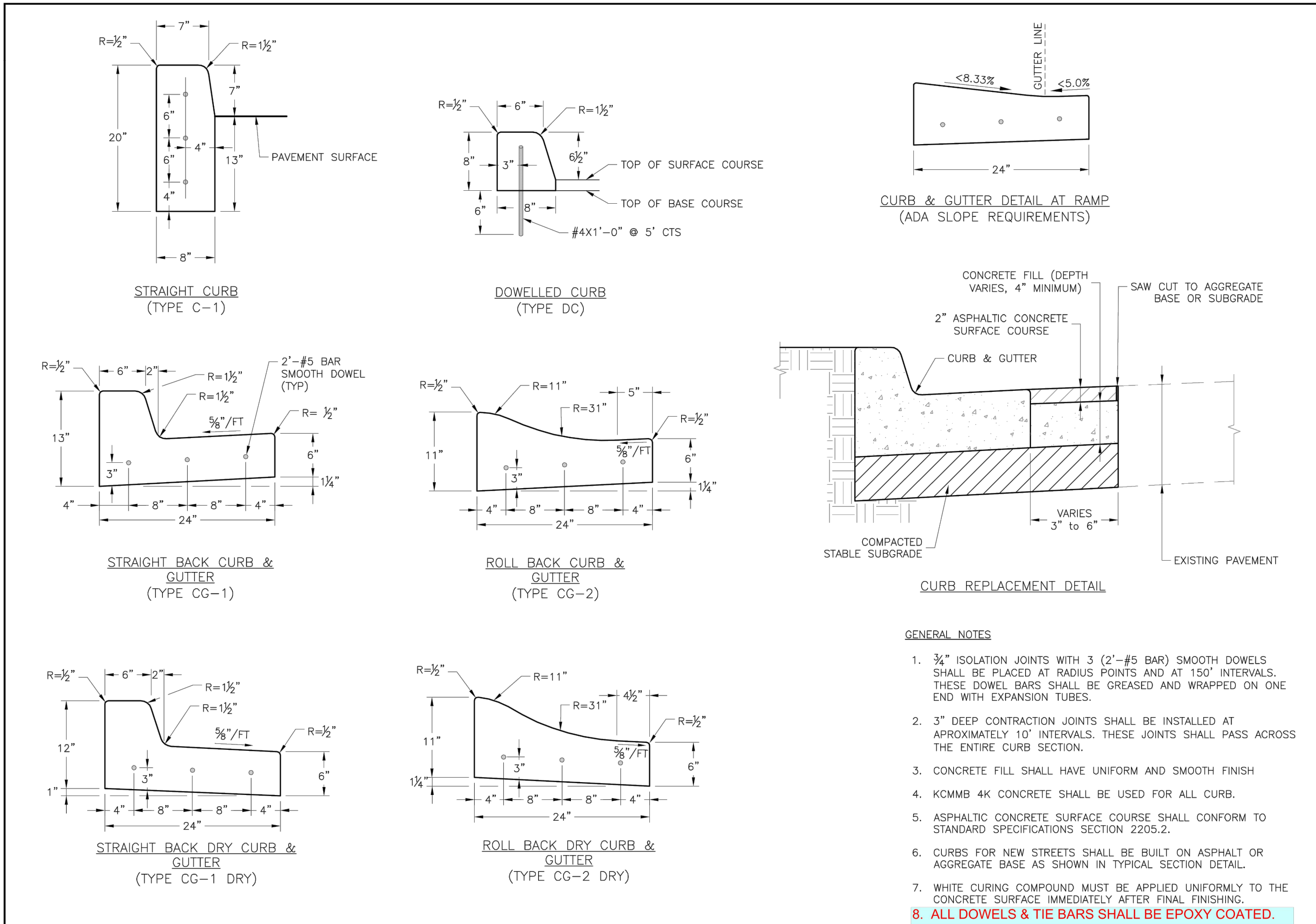
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

GEN-3A



UNDERGROUND PIPE INSTALLATION FOR STORM SEWER LINES
N.T.S.

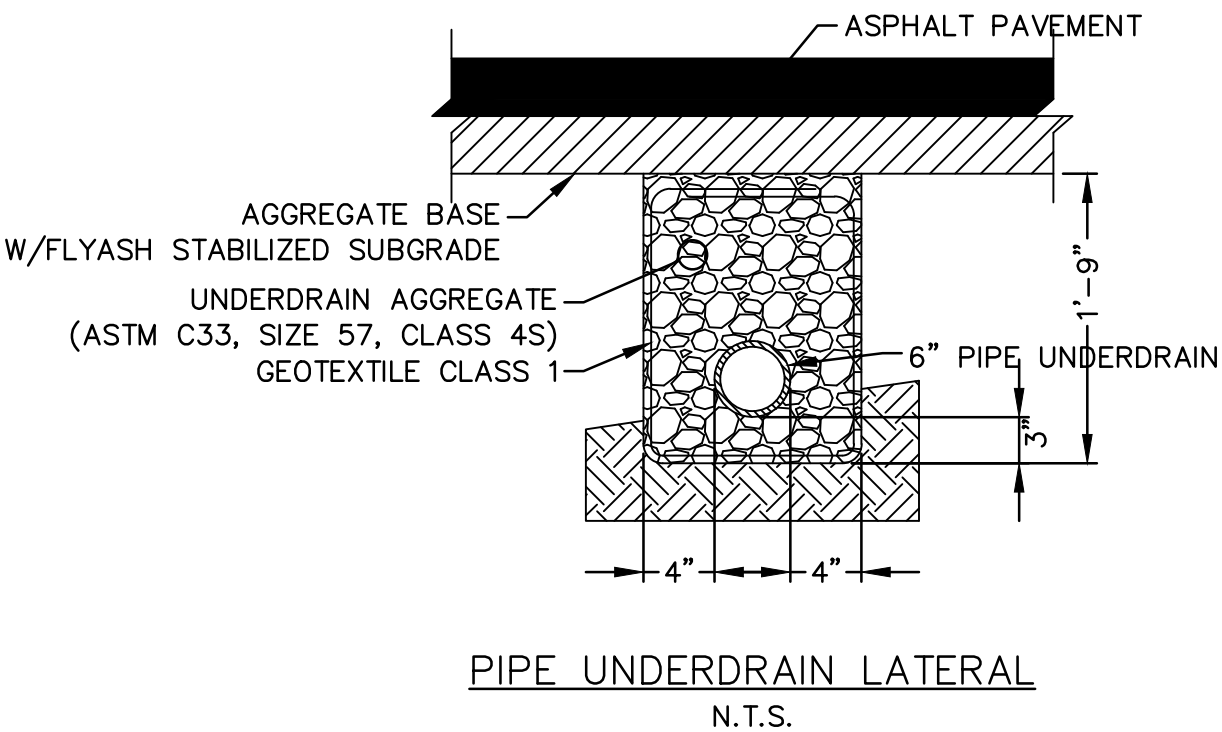
- BACKFILL SHALL BE JOB EXECAVATED MATERIAL FREE FROM DEBRIS AND STONES COMPACTED TO 90% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698. BACKFILL UNDER PAVEMENT (EXISTING OR PROPOSED), SHALL BE FLOWABLE FILL.
- TRENCH BANKS MAY BE CUT BACK ON SLOPES IN ACCORDANCE WITH CURRENT OSHA REGULATIONS, BUT ONLY IN AREAS WHERE THE INCREASED TRENCH WIDTH WILL NOT INTERFERE WITH SURFACE FEATURES. SLOPES MUST NOT EXTEND BELOW TOP OF BEDDING.
- MINIMUM AND MAXIMUM WIDTHS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATION AS APPROVED ON ENGINEERING PLANS.



LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL

GEN-4



- NOTES:**
- Where Pipe Underdrains are used, all Underdrain Outlet Pipes shall be solid wall with watertight joints. All Outlets Pipes shall be tied into the nearest storm sewer inlets at roadway sag locations as indicated in the street profile.
 - All Underdrain Pipes shall be installed at a minimum slope of 1%.
 - Underdrain Pipe shall be installed with the perforations placed down.
 - Blanket Underdrain Aggregate, Pipe Underdrain Aggregate, Pipe Underdrain, Edge Underdrain and Outlet Pipe shall conform to City of Lee's Summit Specifications.
 - Overlap geotextile at top of trench a minimum of 12".

DETAIL SHEET
STREET & STORM SEWER PLANS

EAGLE CREEK VILLAS
FIRST PLAT

LEE'S SUMMIT, MISSOURI

2023

drawn by: _____ CW
checked by: _____ SS
approved by: _____ LS
QA/QC by: _____ JS
project no.: A20-2467
drawing no.: _____
date: 10/20/2023

SHEET
C142

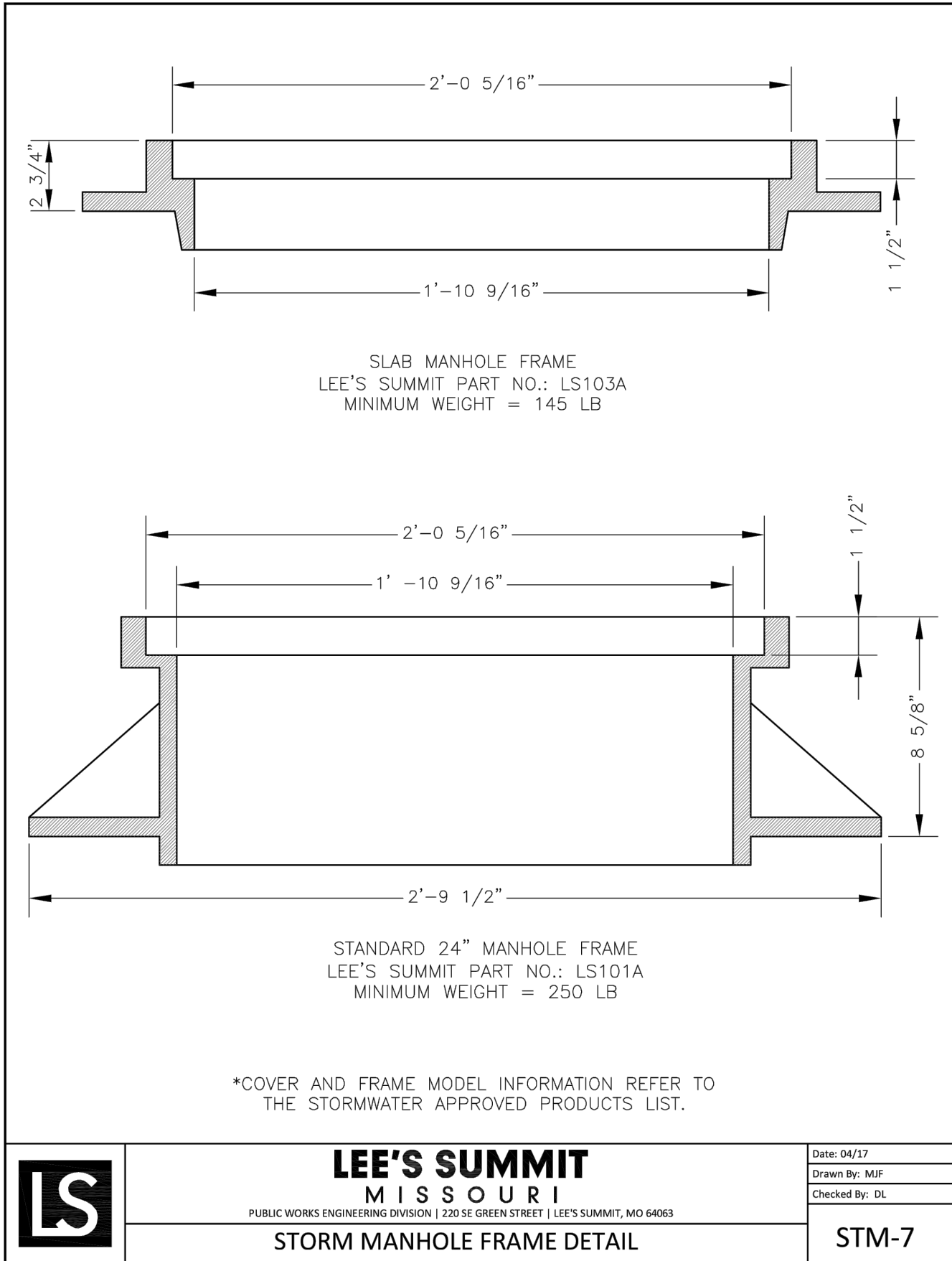
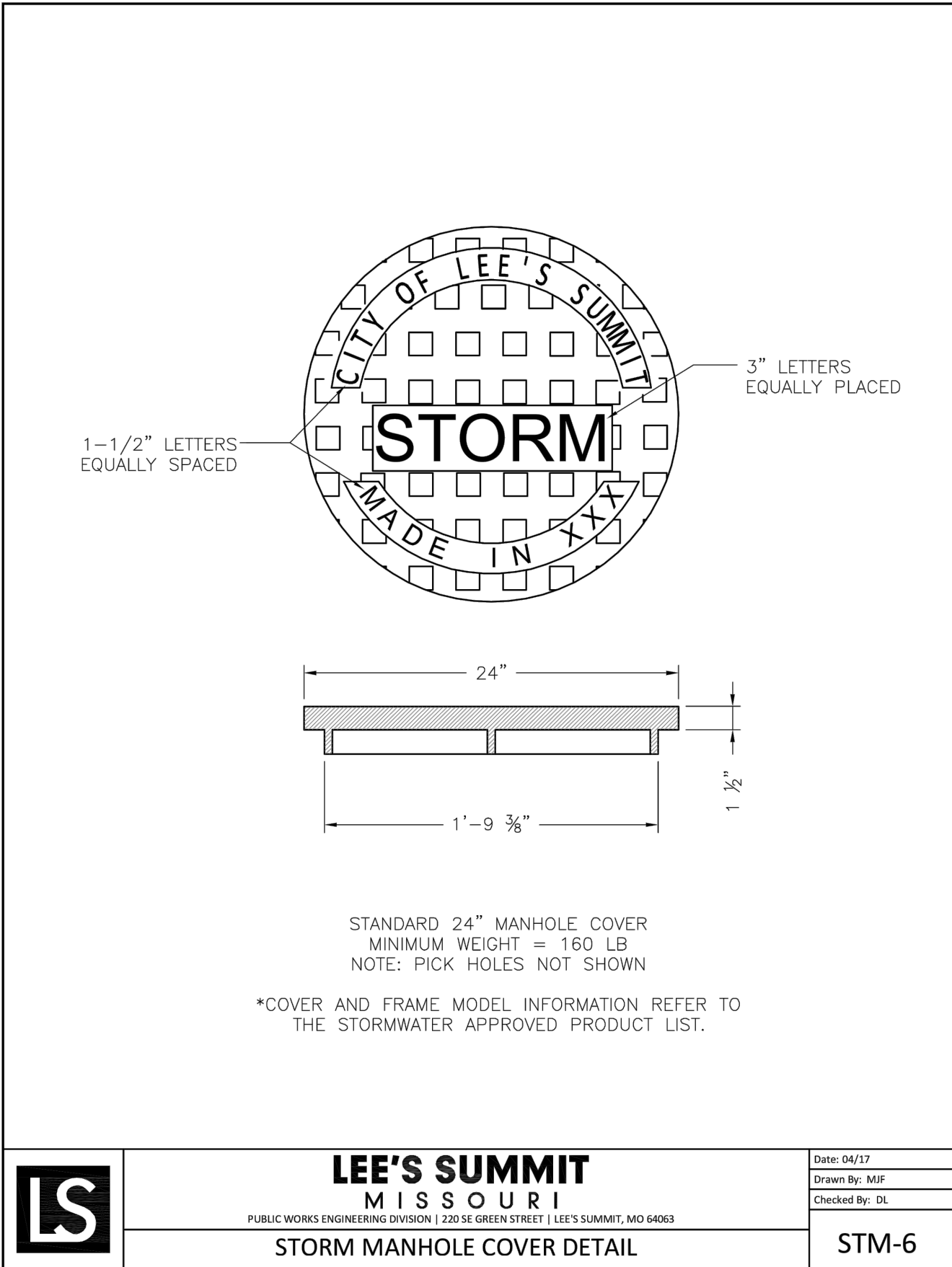
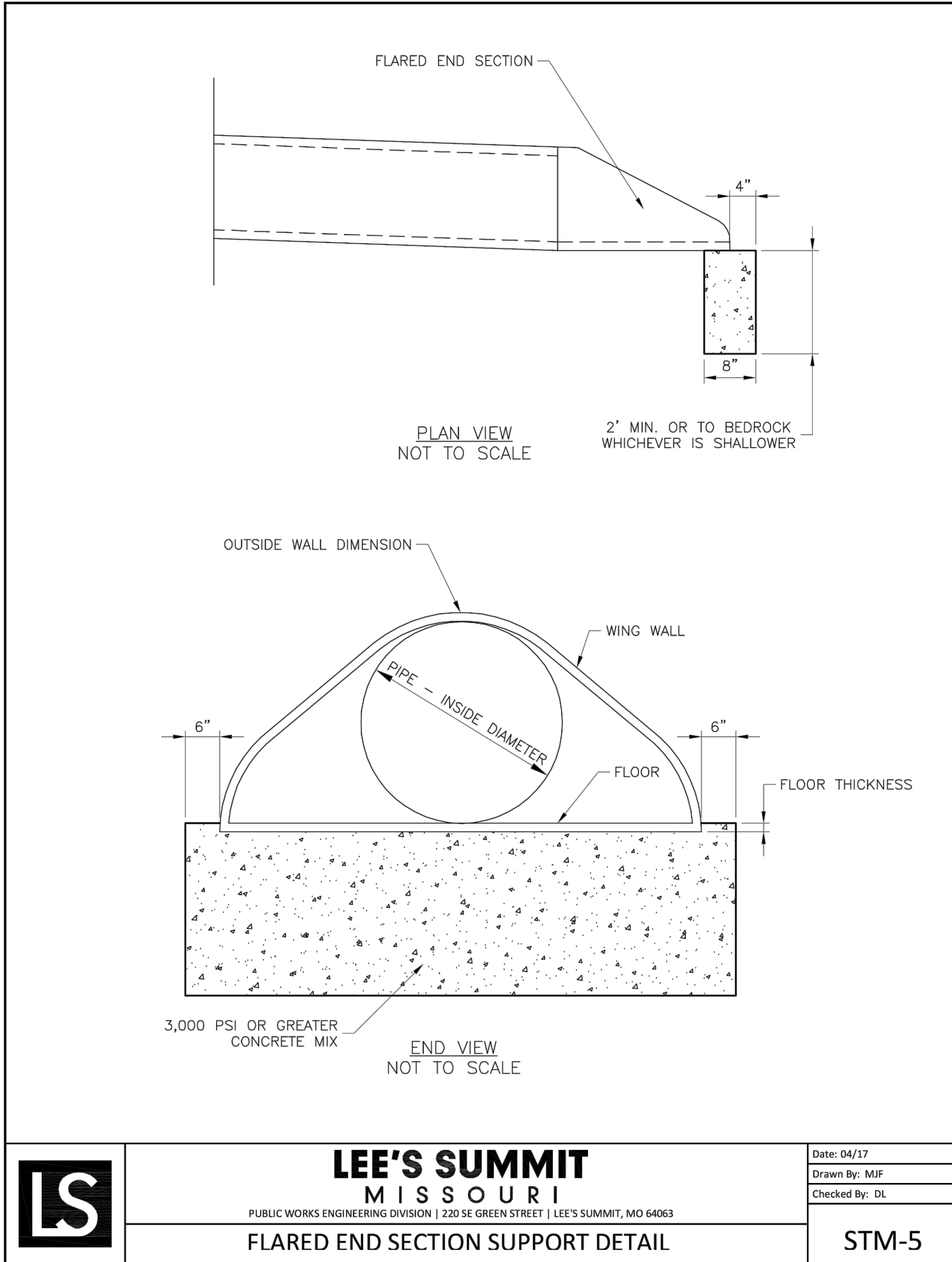
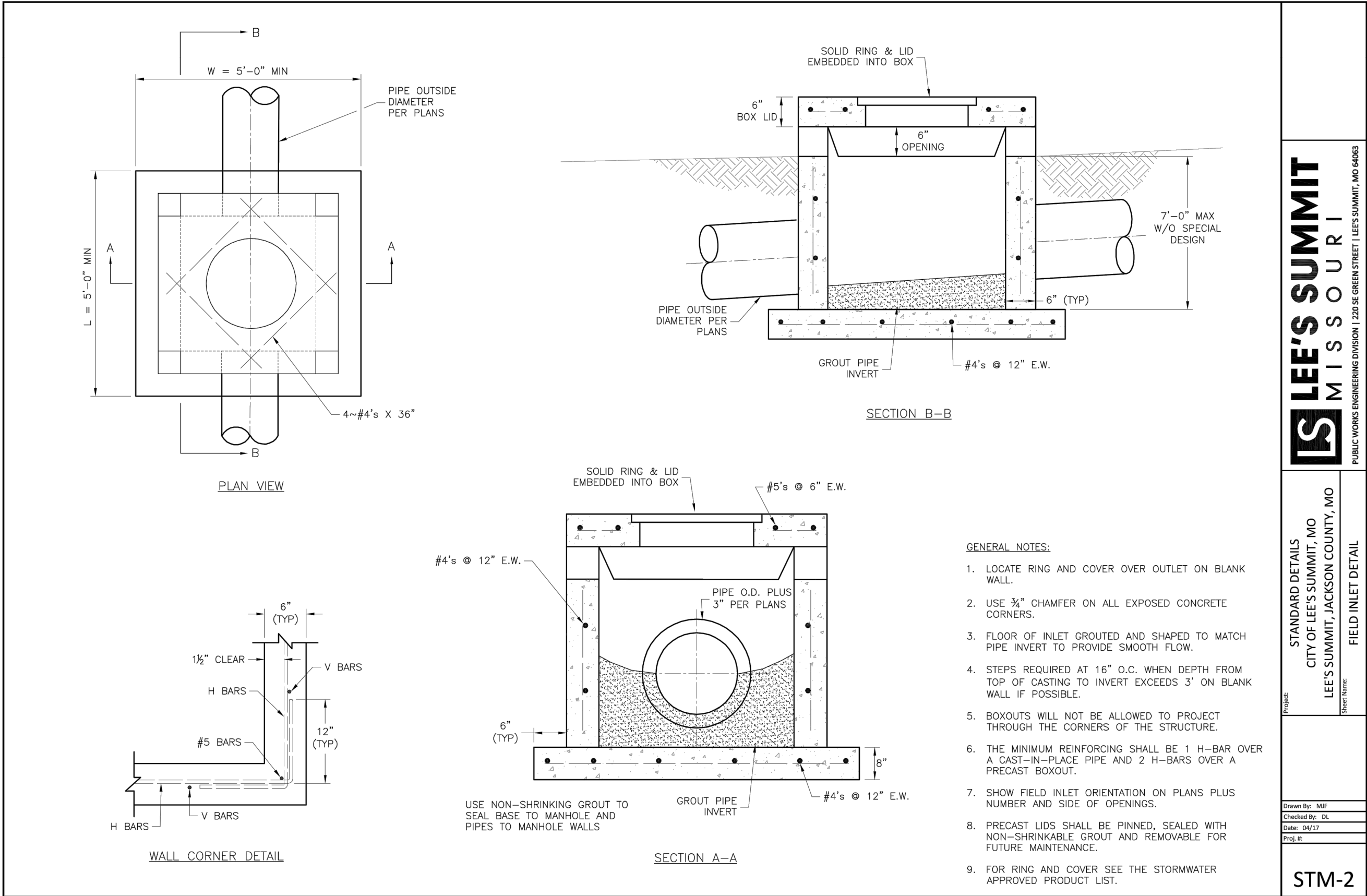
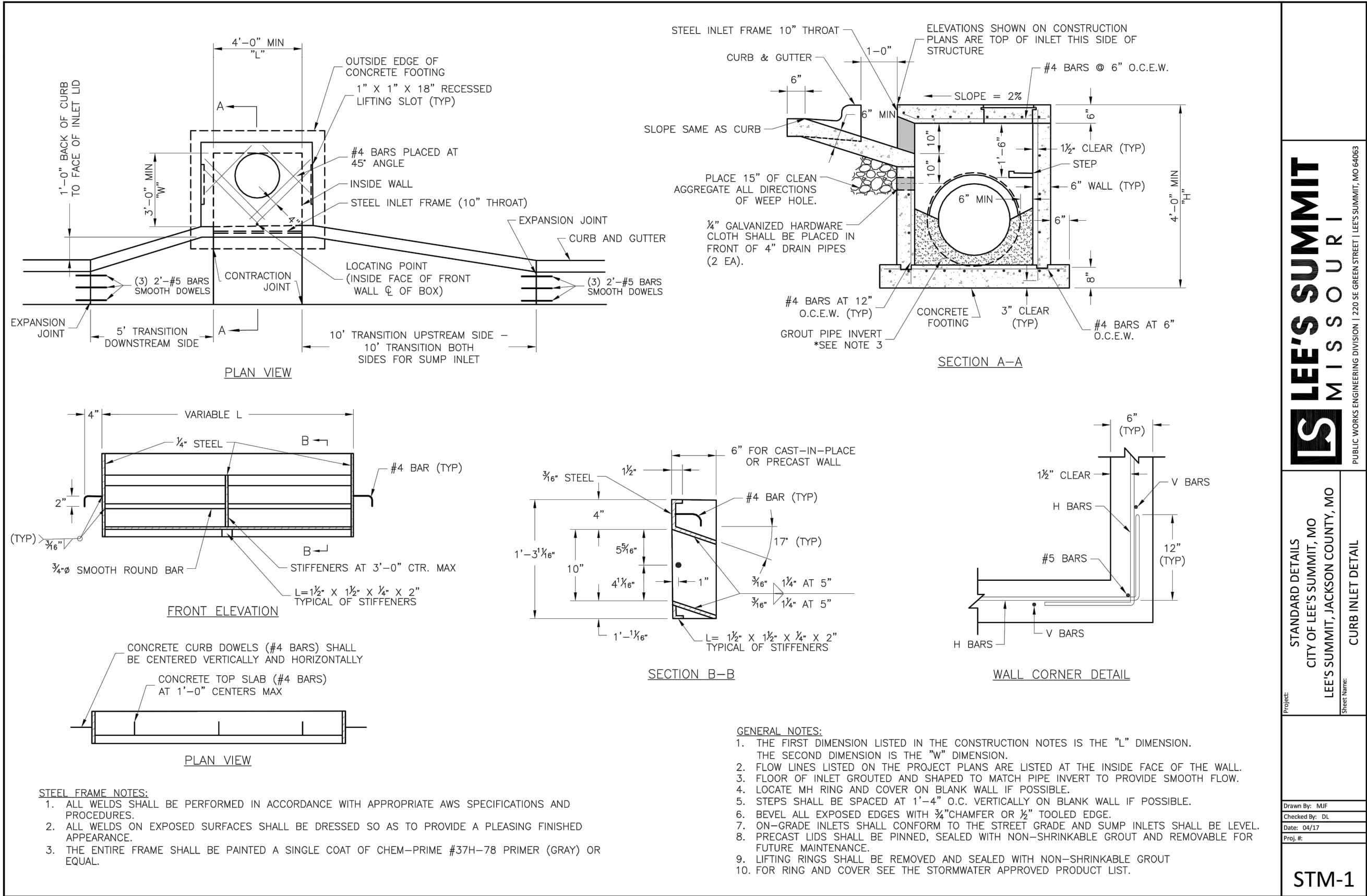
REV. NO.	DATE	REVISIONS DESCRIPTION

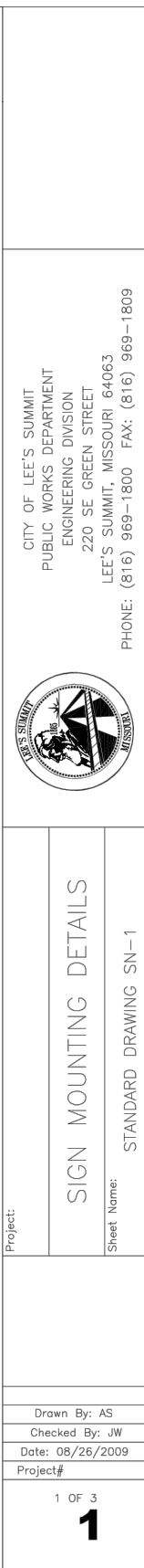
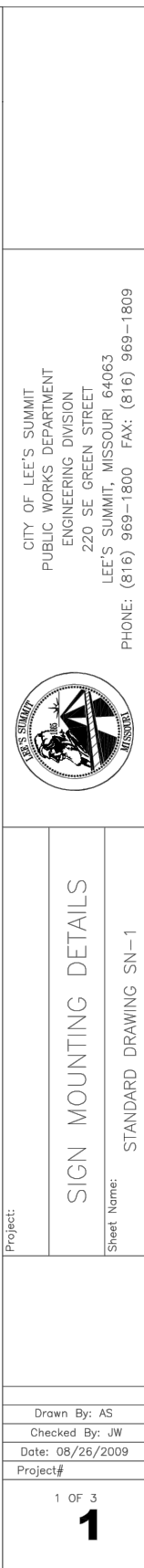
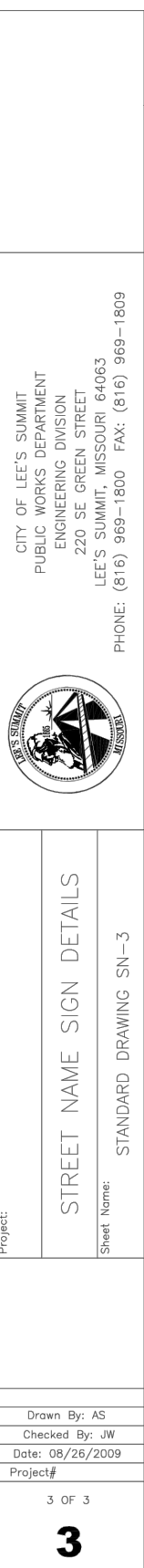
REVISIONS



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Olsson - Civil Engineering
Missouri Certificate of Authority #001592
1301 Burlington Street
North Kansas City MO 64116
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drawn by: _____ CW checked by: _____ SS approved by: _____ JS QA/QC by: _____ JS project no.: _____ A20-2467 date: _____ 10/20/2023	DETAIL SHEET		REV. NO.	DATE	REVISIONS DESCRIPTION	BY
	STREET & STORM SEWER PLANS					
	EAGLE CREEK VILLAS					
	FIRST PLAT					
	LEE'S SUMMIT, MISSOURI					
	2023					
	REVISIONS					
SHEET						
C144						