

SECTION 2, TOWNSHIP 47 N, RANGE 32 W
IN LEE'S SUMMIT, JACKSON COUNTY, MO

ASBUILT
03-24-2022

☐ NOT FOR CONSTRUCTION

☒ REVIEWED FOR CONSTRUCTION



Part of Lot 3B, WEST VILLAGE COMMERCIAL DEVELOPMENT, LOTS 3A AND 3B, a subdivision recorded as Instrument Number 19E0018413 in Book 1182 at Page 62 in Jackson County Recorder of Deeds Office located in the Northeast and Southeast Quarter of Section 2, 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 Roudsbaugh, P.L.S. 2002014092 as follows: Commencing at the Southeast corner of said Southeast Quarter; thence North 87°47'03" West, on the South line of said Southeast Quarter 26,632.21 feet to the Southwest corner of said Southeast Quarter; thence North 03°05'41" East, on the West line of said Southeast Quarter, 1,326.36 feet to the Southwest corner of said Lot 3B, also being the Southwest corner of the North half said Southeast Quarter, also being a point on the Easterly line of STERLING HILLS 5TH PLAT, a subdivision in said Lee's Summit recorded as Instrument Number 11273788 in Book 154 at Page 88 in said Jackson County Recorder of Deeds Office, also being the Southwest corner of proposed WOODSIDE RIDGE 1st Plat, Lots 1 thru 143 inclusive, and Tracts A, B, C, D, E, F, G and H; thence North 03°05'41" East on said West line and said Easterly line, also being the West line of said Lot 3B, also being the Westerly line of proposed WOODSIDE RIDGE 1ST PLAT, LOTS 1 thru 143 inclusive, and Tracts A, B, C, D, E, F, G and H, 389.26 feet to the Point of Beginning of the tract of land to be herein described; thence leaving said proposed Westerly line, continuing North 03°05'41" East on said West lines and said Easterly lines, 936.61 feet to the Northeast corner of said STERLING HILLS 5TH PLAT, also being a point on the Easterly line of WINTERSET WOODS - 3RD PLAT, a subdivision in said Lee's Summit recorded as Instrument Number 200310002463 in Book 174 at Page 14 in said Jackson County Recorder of Deeds Office, also being the Northwest corner of said Southeast Quarter; thence North 03°26'14" East, on the said West line of said Lot 3B, said Easterly line and West line of said Northeast Quarter, 665.72 feet to the Northwest corner of the South half of the South half of said Northeast Quarter, also being the Northwest corner of said Lot 3B, also being the Northeast corner of the South half of the South half of said Northeast Quarter, also being a point on the Easterly line of BROOKRIDGE ESTATES - THIRD PLAT, LOTS 117 - 133, a subdivision in said Lee's Summit recorded as Instrument Number 1802804 in Book 144 at Page 57 in said Jackson County Recorder of Deeds Office; thence North 87°37'42" East, along said Southerly line, also along the North line of said Lot 3B, also being the North line of said South Half of said South Half of said Northeast Quarter, also being the South line of the FOREST OF BROOKRIDGE ESTATES - THIRD PLAT, LOTS 117 - 133, a distance of 1,210.45 feet to the Southeast corner of said the FOREST OF BROOKRIDGE ESTATES - THIRD PLAT LOTS 117 - 133 and to a point on said proposed Westerly line; thence South 87°37'42" East on said North line of said South Half of said South Half, said North line of said Lot 3B, and said proposed Westerly line, 574.95 feet; thence leaving said North lines, South 20°32'36" West, along said proposed Westerly line, 229.10 feet; thence Westerly, along said proposed Westerly line, on a curve to the left, having an initial tangent along the North 69°27'24" West with a radius of 428.00 feet, a central angle of 00°42'29" and an arc distance of 5.25 feet; thence South 19°50'07" West, along said proposed Westerly line 178.42 feet; thence South 85°52'23" West, along said proposed Westerly line, 130.41 feet; thence South 70°59'24" West, along said proposed Westerly line, 137.47 feet; thence South 61°49'26" West, along said proposed Westerly line, 951.56 feet; thence South 21°24'31" West, along said proposed Westerly line, 135.10 feet; thence Westerly, along said proposed Westerly line, along a curve to the left having an initial tangent bearing the North 68°35'29" West with a radius of 275.00 feet, a central angle of 12°33'32" and an arc distance of 60.28 feet; thence South 08°50'59" West, along said proposed Westerly line, 50.00 feet; thence South 22°12'04" West, along said proposed Westerly line, 173.03 feet; thence North 75°51'31" West, along said proposed Westerly line, 21.43 feet; thence South 41°11'03" West, along said proposed Westerly line, 60.06 feet; thence South 29°55'27" West, along said proposed Westerly line, 306.11 feet; thence South 85°54'26" West, along said proposed Westerly line, 236.75 feet to the Point of Beginning. Containing 1,514,368 square feet or 34.77 acres, more or less.

BMK #5 CHISELED SQUARE ON THE S.E. CORNER OF A CONCRETE PAD FOR A TRAFFIC SIGNAL BOX AT THE S.W. CORNER OF PRYOR ROAD AND O'BRIEN ROAD.

ELEVATION: 979.24

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

Julie E Sellers
 JULIE E SELLERS, P.E.
 CIVIL ENGINEER
 MO# 2017000367

12/20/2022
DATE

NO.	REV	DATE	REVISIONS DESCRIPTION	BY
1		7/06/2020	REVISED PER CITY COMMENTS	
2		3/16/2021	REVISED PER CONTRACTOR COMMENT	

COVER SHEET
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

drawn by: C.S.M
checked by: S.M.S
designed by: C.S.M
QA/QC by: J.E.S
project no.: C18-1140
date: 2020.06.09

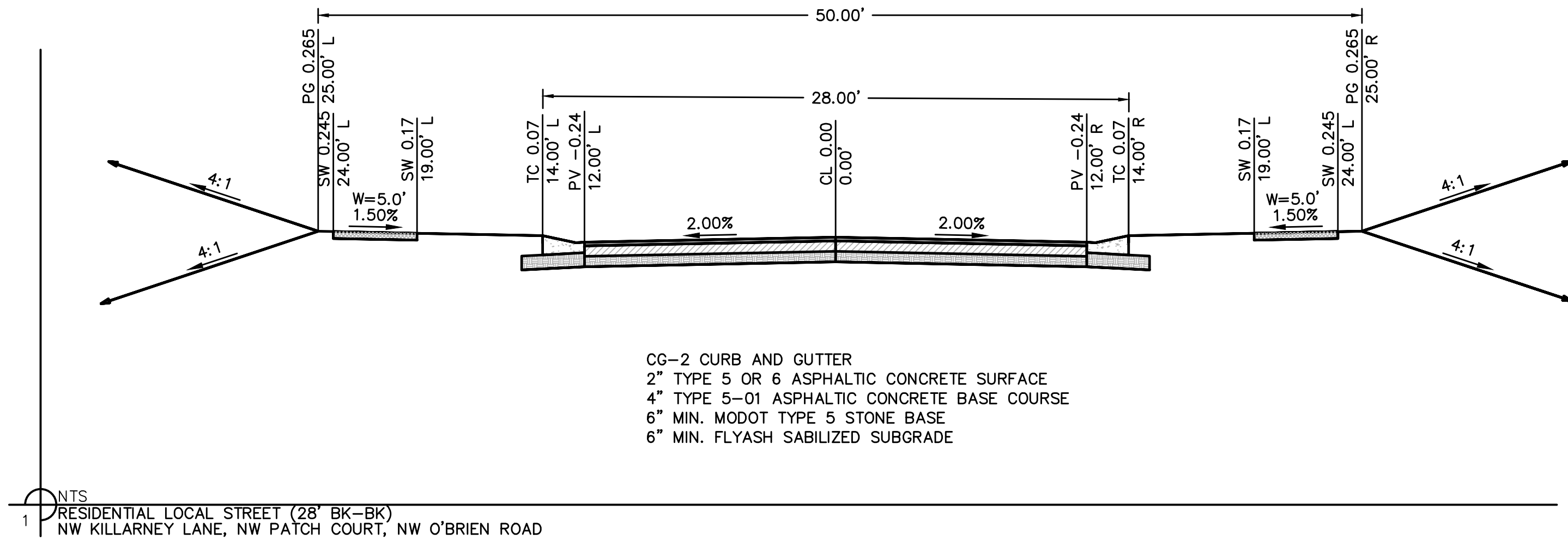
SHEET
C101

USER: ssaylor

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DWG: F:\2018\1001-1500\018-
DATE: Oct 17, 2022 12:36pm

11. P.O.S= PROPOSED OPEN SPACE.



DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilt\Sheets\GNC\Street & Storm\C_GEN01_C181140.dwg
DATE: Oct 17, 2022 12:36pm

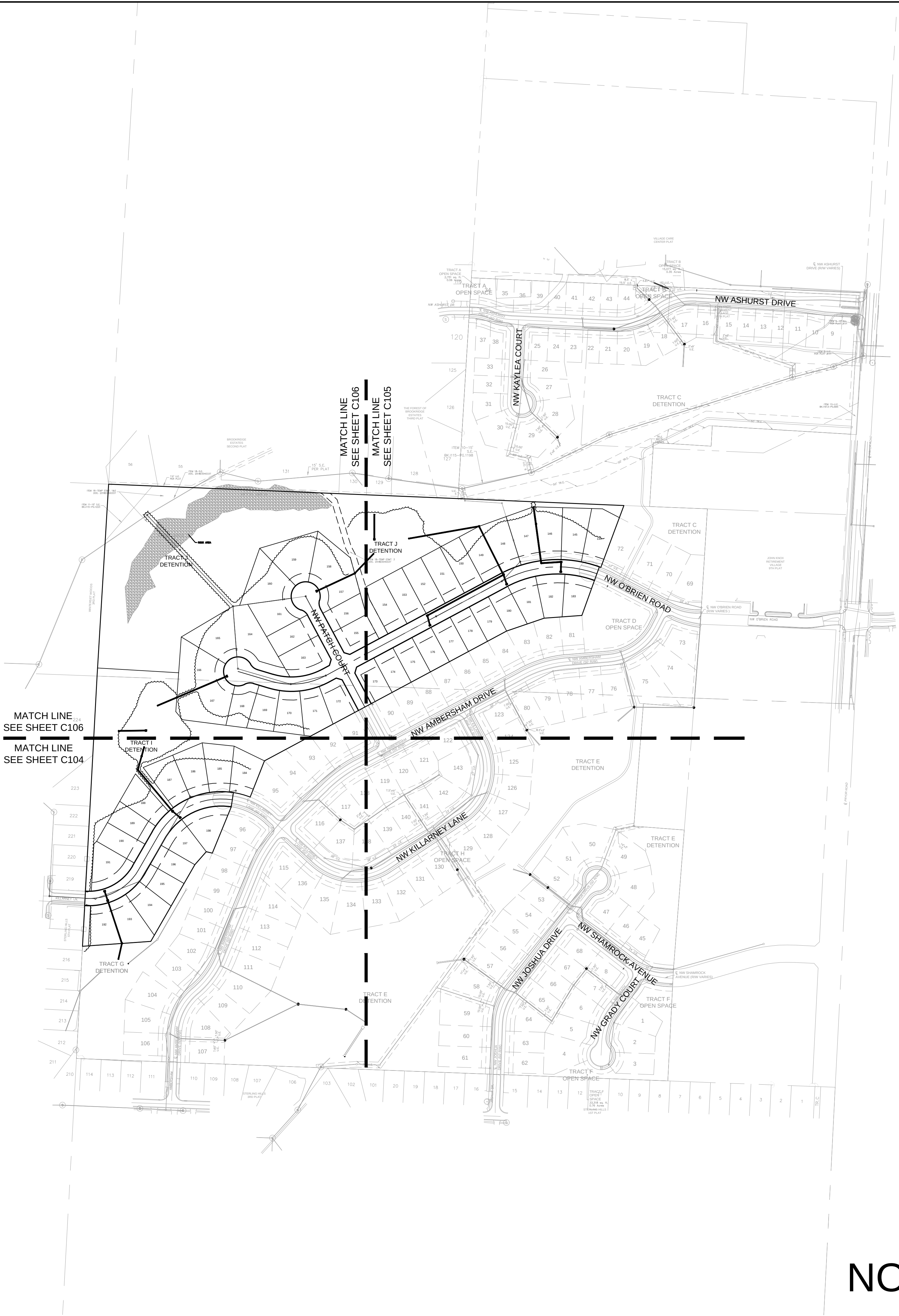
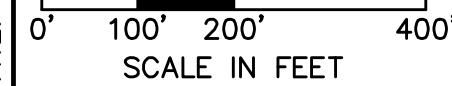
SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED UPON THE CONTENTS OF THESE PLANS.

LEGEND	
-ECTVGH-	EXISTING CABLE TV, OVERHEAD
-ECTV-	EXISTING CABLE TV, UNDERGROUND
-CTVGH-	PROPOSED CABLE TV, OVERHEAD
-CTV-	PROPOSED CABLE TV, UNDERGROUND
-FCTVGH-	FUTURE CABLE TV, OVERHEAD
-FCTV-	FUTURE CABLE TV, UNDERGROUND
-FEOGH-	EXISTING FIBER OPTIC, OVERHEAD
-FEO-	EXISTING FIBER OPTIC, UNDERGROUND
-FOGH-	PROPOSED FIBER OPTIC, OVERHEAD
-FO-	PROPOSED FIBER OPTIC, UNDERGROUND
-FEOGH-	FUTURE FIBER OPTIC, OVERHEAD
-FEO-	FUTURE FIBER OPTIC, UNDERGROUND
-FPF-	EXISTING FIRE PROTECTION SYSTEM LINE
-FP-	PROPOSED FIRE PROTECTION SYSTEM LINE
-FFP-	FUTURE FIRE PROTECTION SYSTEM LINE
-CFL-	EXISTING FUEL LINE
-FL-	PROPOSED FUEL LINE
-FFL-	FUTURE FUEL LINE
-EG-	EXISTING NATURAL GAS LINE
-G-	PROPOSED NATURAL GAS LINE
-FG-	FUTURE NATURAL GAS LINE
-ETELGH-	EXISTING TELEPHONE LINE, OVERHEAD
-ETEL-	EXISTING TELEPHONE LINE, UNDERGROUND
-TELGH-	PROPOSED TELEPHONE LINE, OVERHEAD
-TEL-	PROPOSED TELEPHONE LINE, UNDERGROUND
-FFTELGH-	FUTURE TELEPHONE LINE, OVERHEAD
-FFTEL-	FUTURE TELEPHONE LINE, UNDERGROUND
-EEOH-	EXISTING POWER/ELECTRIC LINE, OVERHEAD
-EE-	EXISTING POWER/ELECTRIC LINE, UNDERGROUND
-EOH-	PROPOSED POWER/ELECTRIC LINE, OVERHEAD
-E-	PROPOSED POWER/ELECTRIC LINE, UNDERGROUND
-FFEOH-	FUTURE POWER/ELECTRIC LINE, OVERHEAD
-FE-	FUTURE POWER/ELECTRIC LINE, UNDERGROUND
-ESS-	EXISTING SANITARY SEWER
-SS-	PROPOSED SANITARY SEWER
-FSS-	FUTURE SANITARY SEWER
-ESL-	EXISTING STEAM LINE
-SL-	PROPOSED STEAM LINE
-FSL-	FUTURE STEAM LINE
-EST-	EXISTING STORM SEWER
-ST-	PROPOSED STORM SEWER
-FST-	FUTURE STORM SEWER
-EW-	EXISTING WATER LINE
-W-	PROPOSED WATER LINE
-FW-	FUTURE WATER LINE

ASBUILT
03-24-2022

ALL NOTES REFERENCED ON THIS PLAN SHEET MAY HAVE APPLICATIONS TO EVERY FACET OF THE CONSTRUCTION PLANS. THE NOTE HEADINGS OR TITLES ARE TO BE USED AS A GENERAL GUIDE TO APPLICABLE SITUATIONS.

drawn by: _____ C.S.M. checked by: _____ C.S.M. designed by: _____ C.S.M. QA/QC by: _____ J.E.S. project no.: _____ C18-1140 date: _____ 2020.07.10		SHEET C102	
GENERAL NOTES STREET & STORM SEWER PLANS		2020	
WOODSIDE RIDGE SECOND PLAT		2020	
LEE'S SUMMIT, MO		2020	
NO. REV.		DATE	
REVISIONS DESCRIPTION		BY	
REVISIONS			



NOT ASBUILT

MASTER GENERAL LAYOUT
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

NO. REV.	DATE
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REVISIONS DESCRIPTION

BY



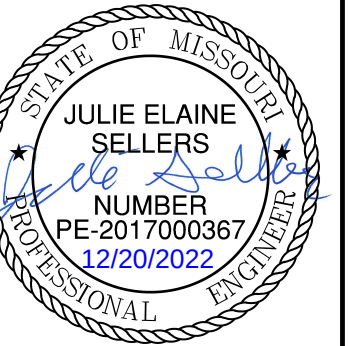
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[illegible]

STREET & STORM SEWER PLANS	WOODSIDE RIDGE SECOND PLAT	2020
----------------------------	-------------------------------	------

Drawn by: C.S.M
 Checked by: S.M.S
 Designed by: C.S.M
 A/QC by: J.E.S
 Project no.: C18-1140
 Date: 2020.07.10

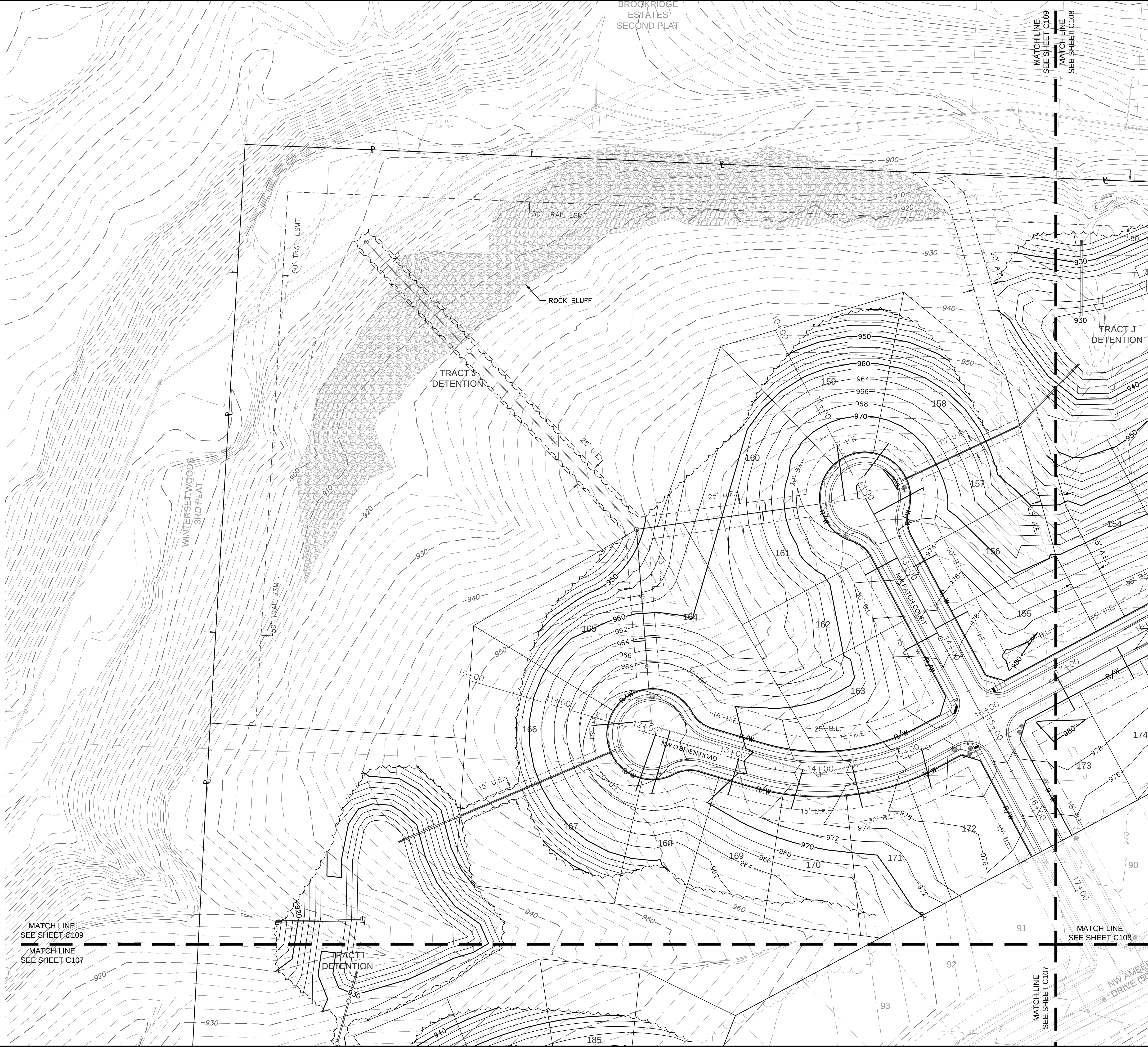
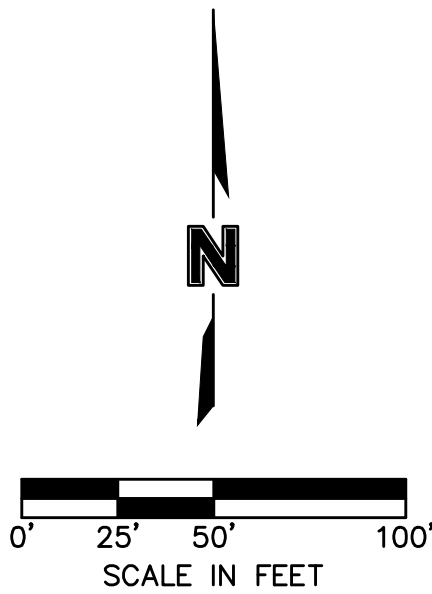
HEET
C106



KEY MAP

Woodside Ridge Plat 2 Lot Fill Information	
Lot Number	Over 8' Fill Placed
144	
145	11'
146	13'
147	12'
148	11'
149	9'
150	
151	9'
152	9'
153	12'
154	9'
155	9'
156	
157	
158	9'
159	10'
160	9'
161	
162	
163	
164	11'
165	10'
166	
167	
168	
169	
170	
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	
184	
185	
186	9'
187	10'
188	
189	
190	
191	
192	
193	10'
194	
195	
196	
197	
198	

NOT ASBUILT



BY

NO. REV.

DATE

REVISIONS DESCRIPTION

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER
PE-2017000367
12/20/2022

GRADING PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

REVISIONS

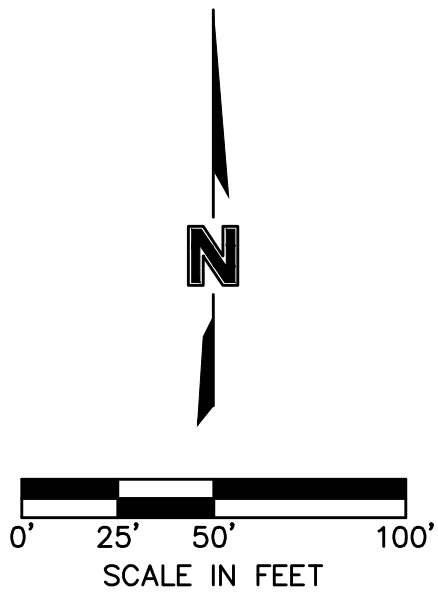
drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C108



KEY MAP

Woodside Ridge Plat 2 Lot Fill Information	
Lot Number	Over 8' Fill Placed
144	
145	11'
146	13'
147	12'
148	11'
149	9'
150	
151	9'
152	9'
153	12'
154	9'
155	9'
156	
157	
158	9'
159	10'
160	9'
161	
162	
163	
164	11'
165	10'
166	
167	
168	
169	
170	
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	
184	
185	
186	9'
187	10'
188	
189	
190	
191	
192	
193	10'
194	
195	
196	
197	
198	



NOT ASBUILT

BY

NO. REV.

DATE

REVISIONS DESCRIPTION

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER PE-2017000367
12/20/2022
PROFESSIONAL ENGINEER

GRADING PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

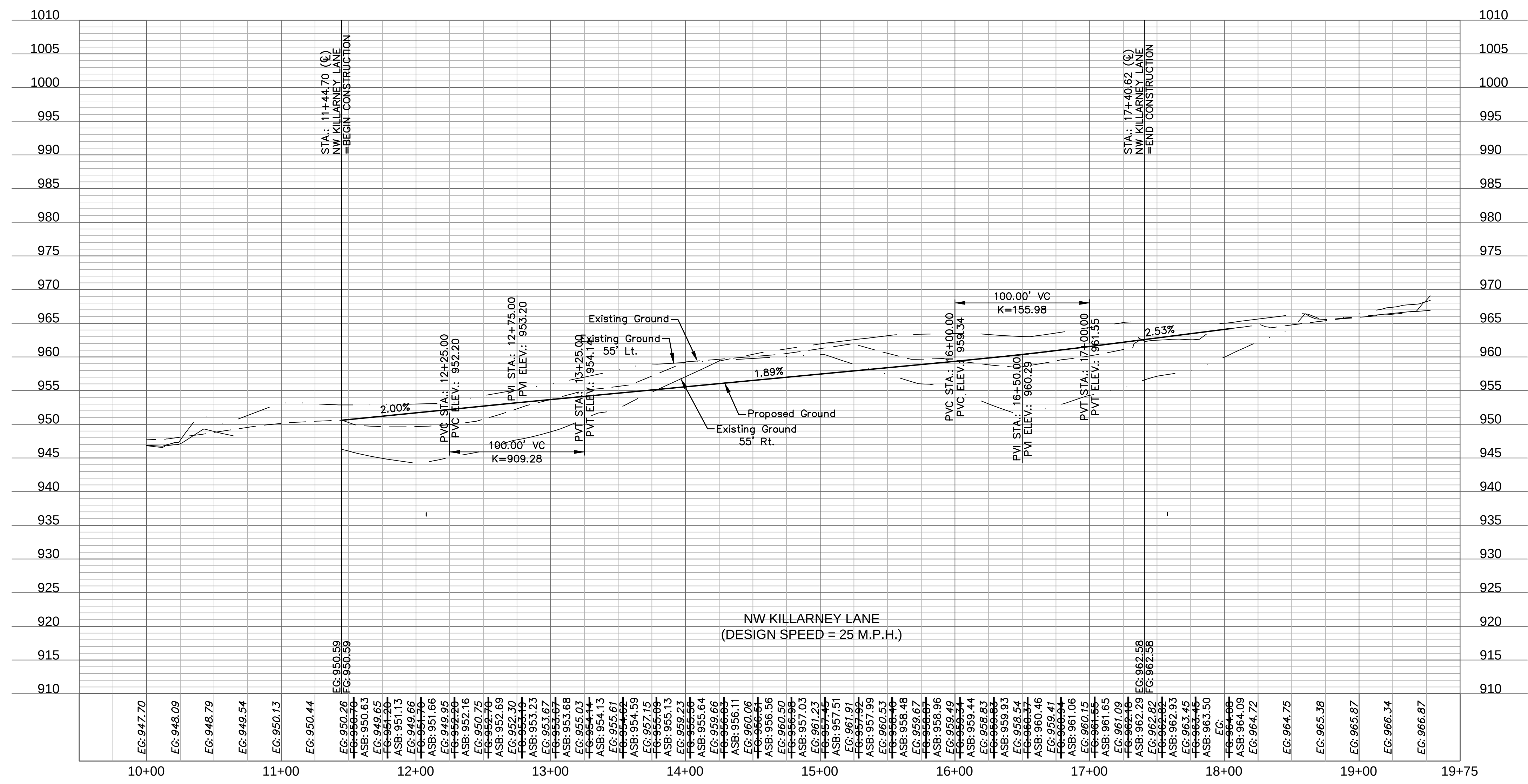
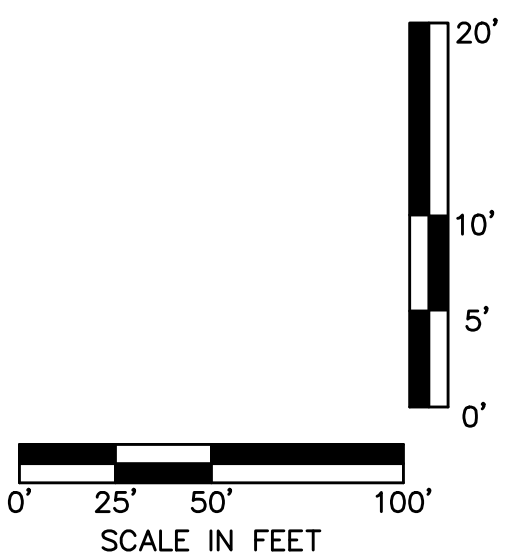
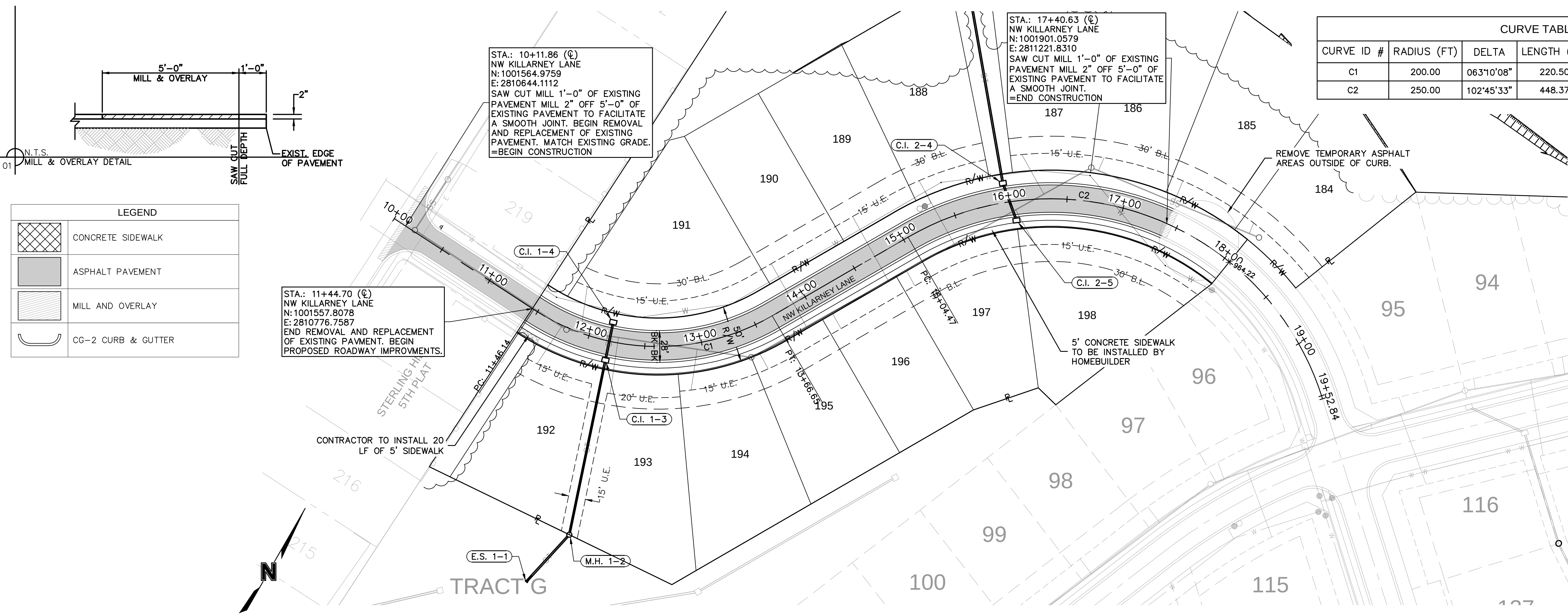
LEE'S SUMMIT, MO

2020

2020.07.10

drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET C109



ASBUILT
03-24-2022

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303 E. BIRCH STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
www.olsson.com

STATE OF MISSOURI
JULIE ELAINE
SELLERS
Professional Engineer
NUMBER
PE-2017000367
12/20/2022

BY: _____
NO. REV. _____
DATE _____
REVISIONS DESCRIPTION _____
REVISIONS _____

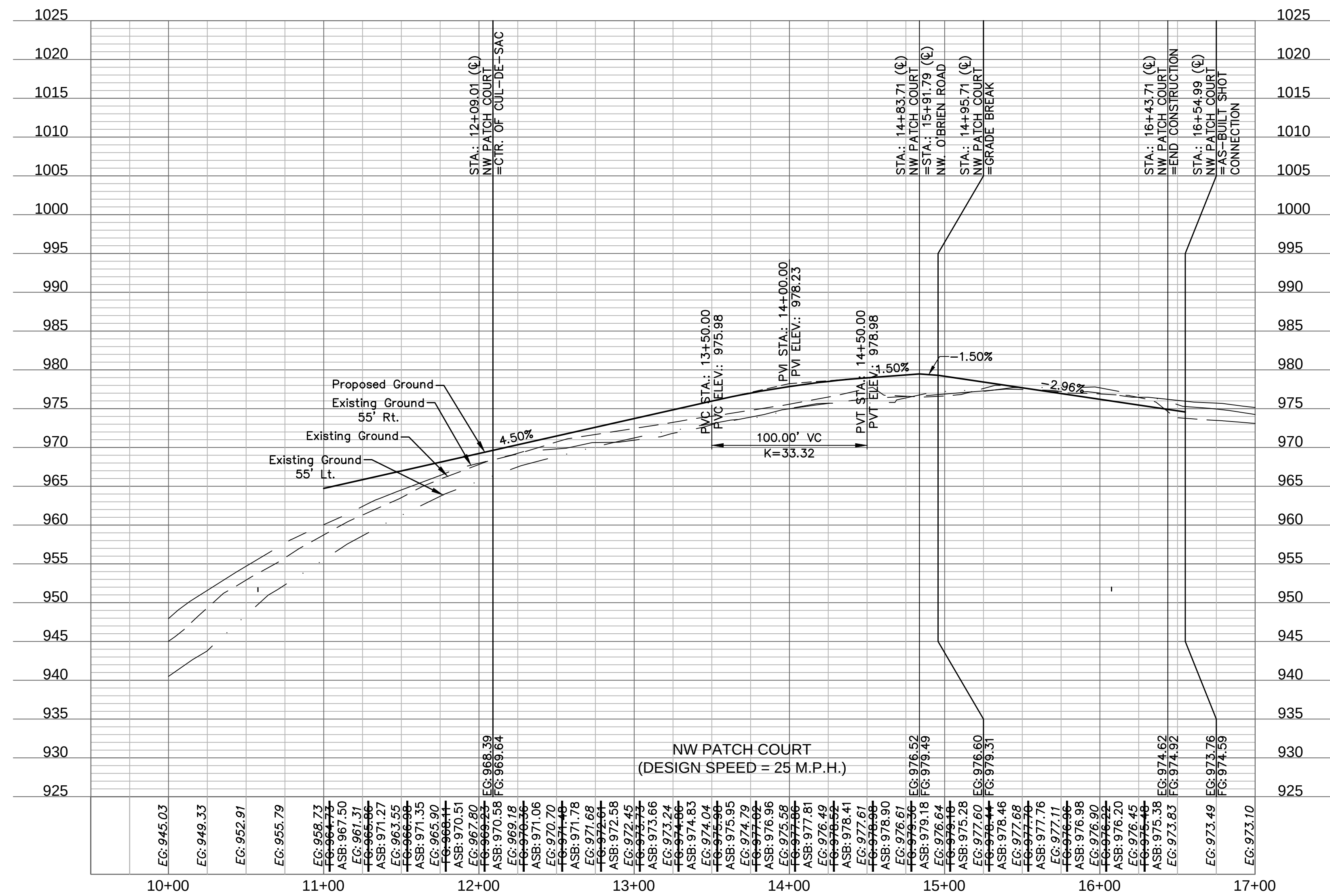
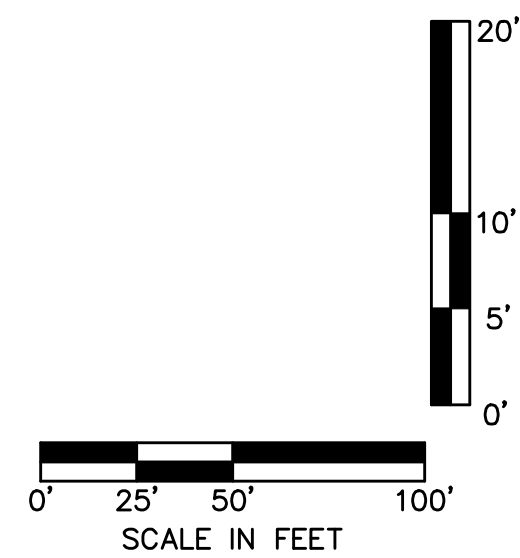
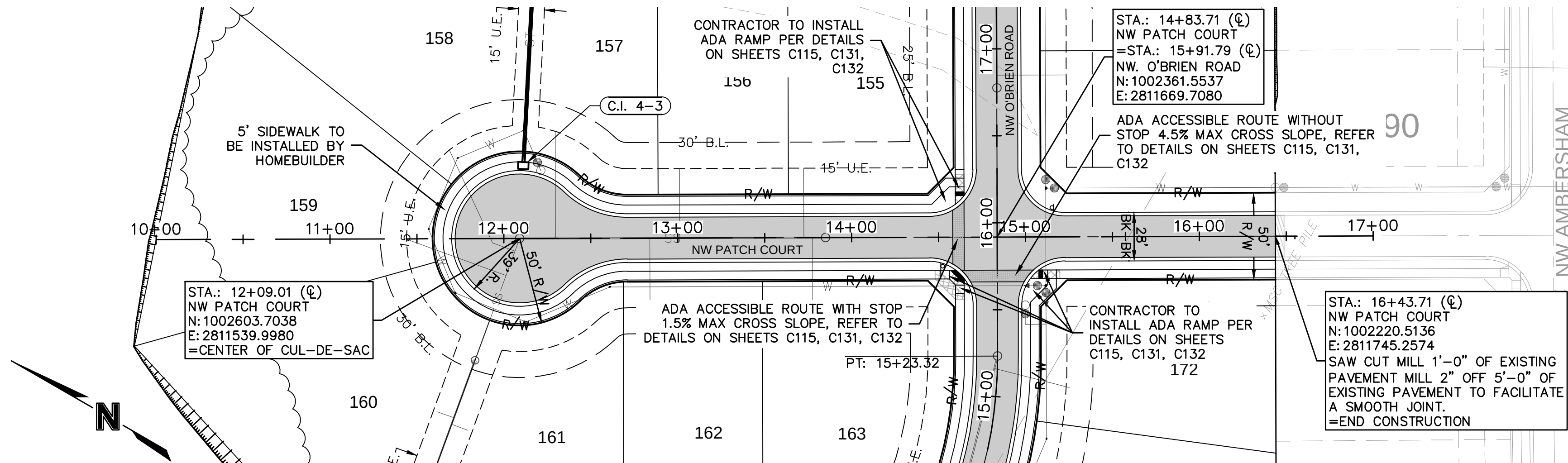
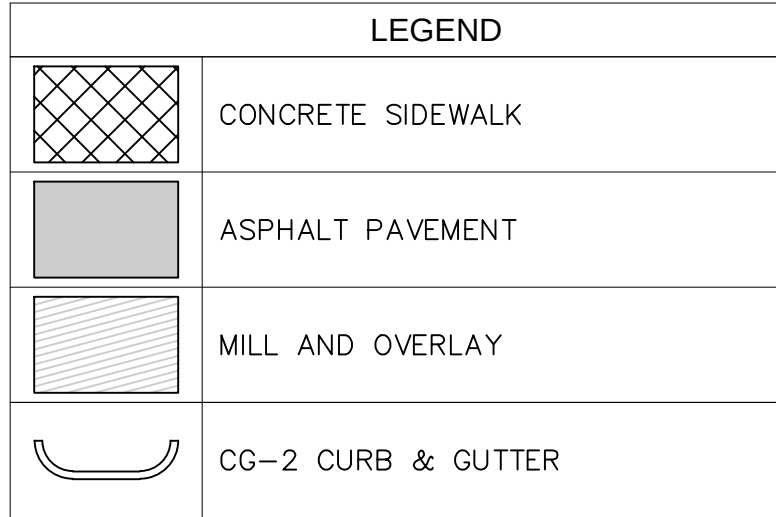
ROADWAY PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

drawn by: _____ C.S.M.
checked by: _____ S.M.S.
designed by: _____ C.S.M.
QA/QC by: _____ J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C110



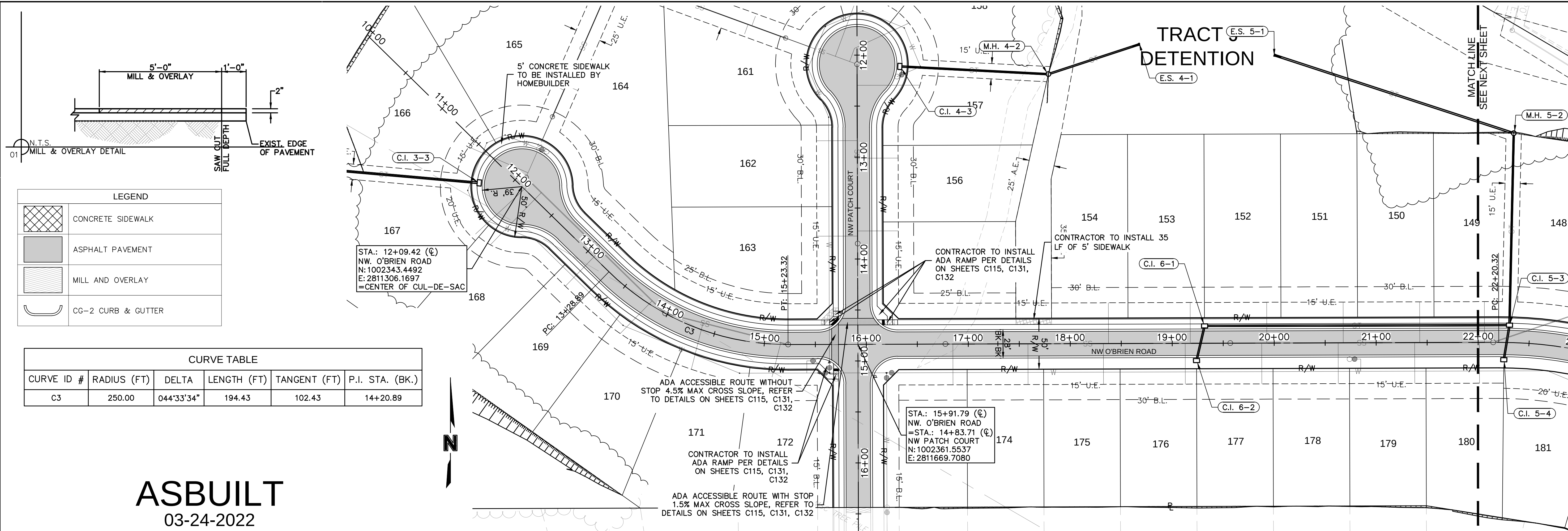
ASBUILT
03-24-2022

drawn by: _____ C.S.M.		NO. REV.	DATE	REVISIONS DESCRIPTION	BY
checked by: _____ S.M.S.					
designed by: _____ C.S.H.					
QA/QC by: _____ J.E.S.					
project no.: _____ C18-1140					
date: _____ 2020.07.10					
ROADWAY PLAN & PROFILE STREET & STORM SEWER PLANS					
WOODSIDE RIDGE SECOND PLAT					
LEE'S SUMMIT, MO				2020	REVISIONS

SHEET
C111

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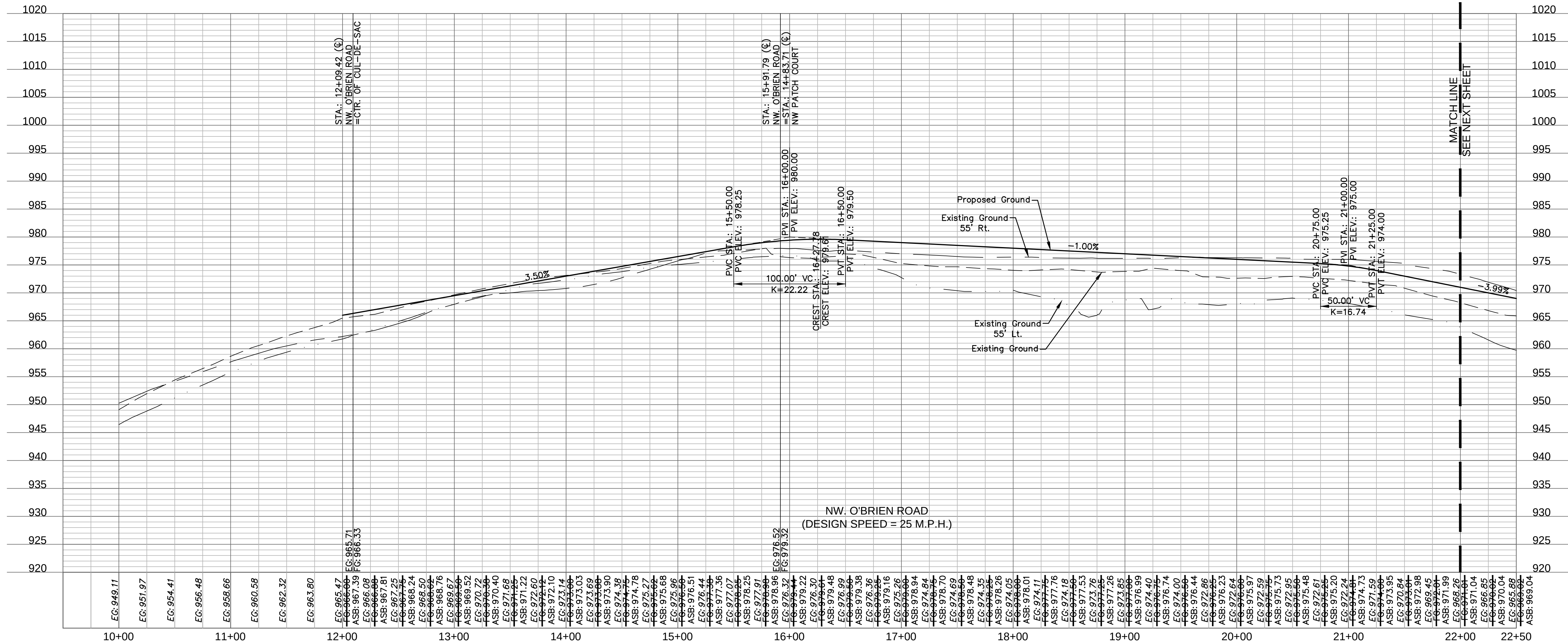
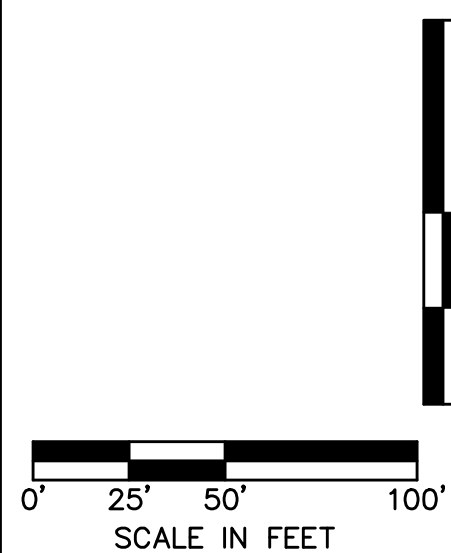
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LEGEND	
	CONCRETE SIDEWALK
	ASPHALT PAVEMENT
	MILL AND OVERLAY
	CG-2 CURB & GUTTER

CURVE TABLE					
CURVE ID #	RADIUS (FT)	DELTA	LENGTH (FT)	TANGENT (FT)	P.I. STA. (BK.)
C3	250.00	044°33'34"	194.43	102.43	14+20.89

ASBUILT
03-24-2022



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NO Conflicts of Interest at 03/18/22
303 E. BIRCH STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.861.1177
www.olsson.com

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER
PE-2017000367
12/20/2022

BY
NO. REV.
DATE
REVISIONS DESCRIPTION

ROADWAY PLAN & PROFILE
STREET & STORM SEWER PLANS

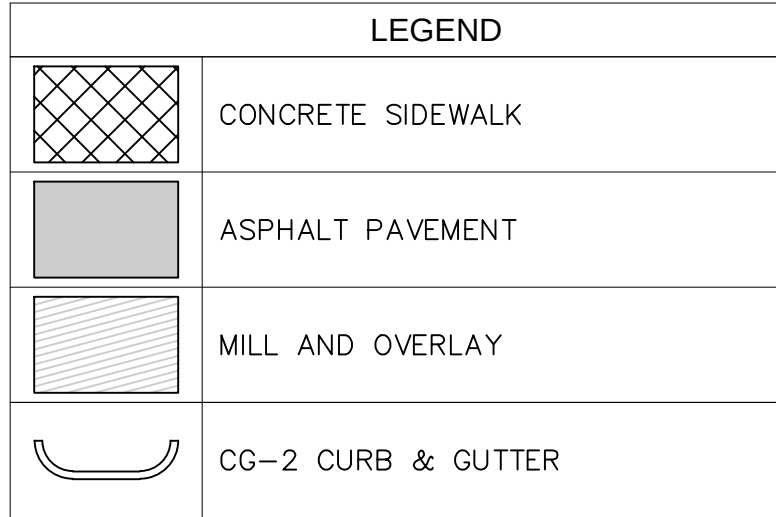
WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

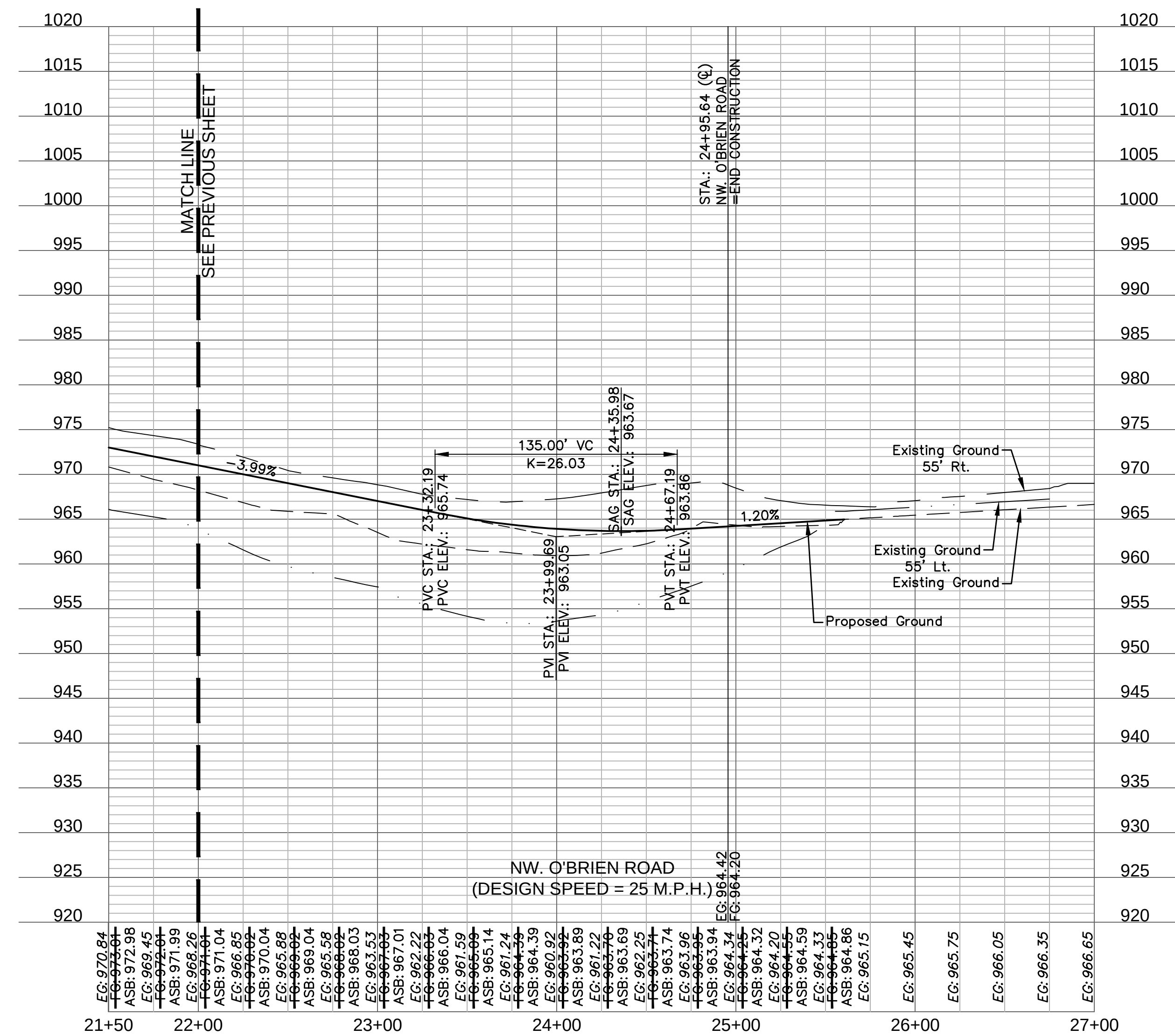
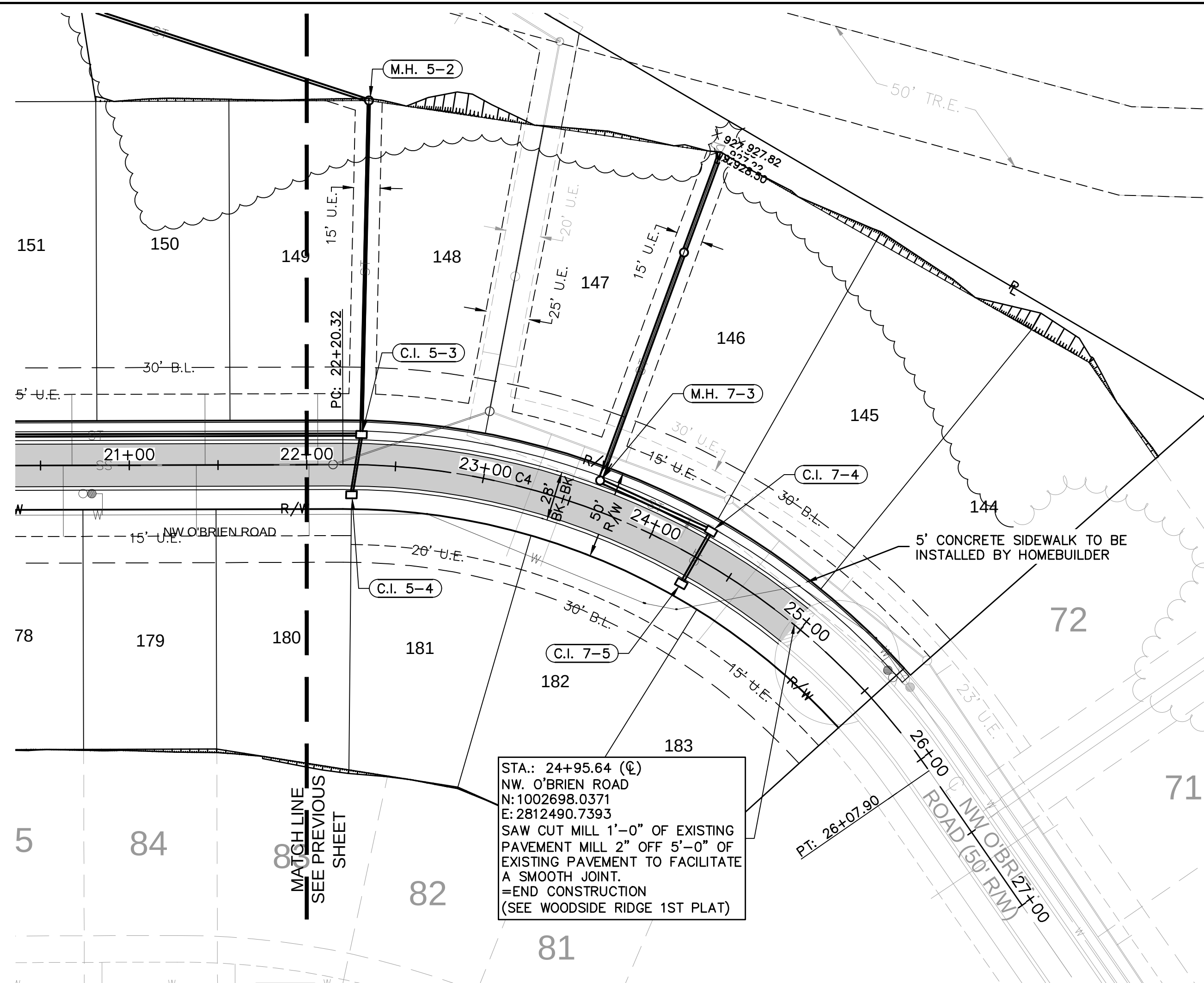
drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C112

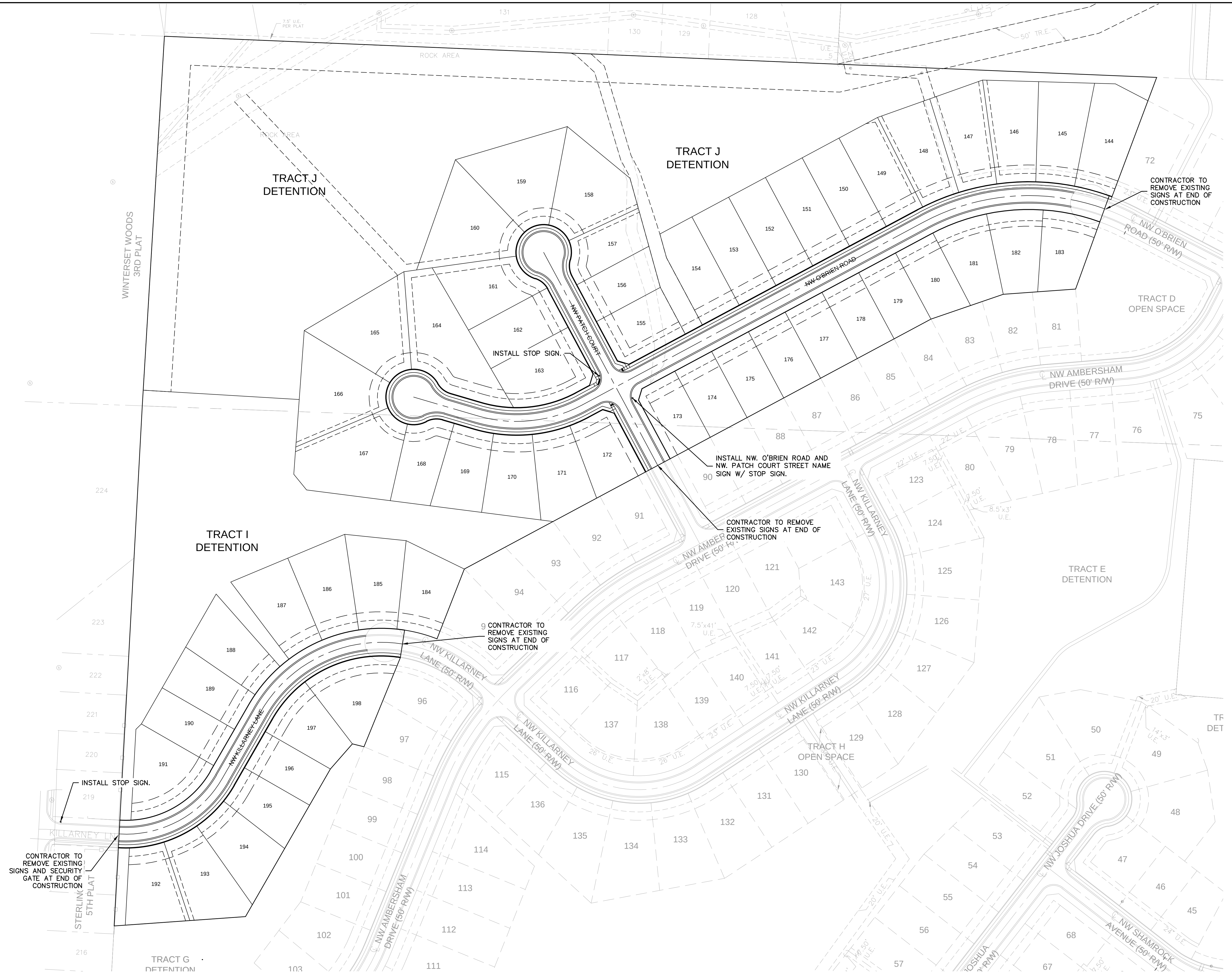
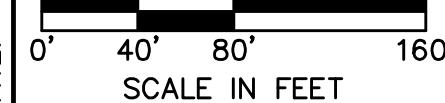
2020
REVISIONS



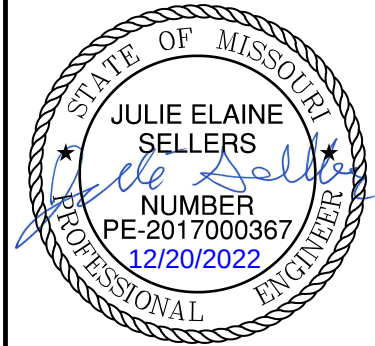
CURVE TABLE					
CURVE ID #	RADIUS (FT)	DELTA	LENGTH (FT)	TANGENT (FT)	P.I. STA. (BK.)
C4	400.00	055°31'00"	387.58	210.52	23+97.37

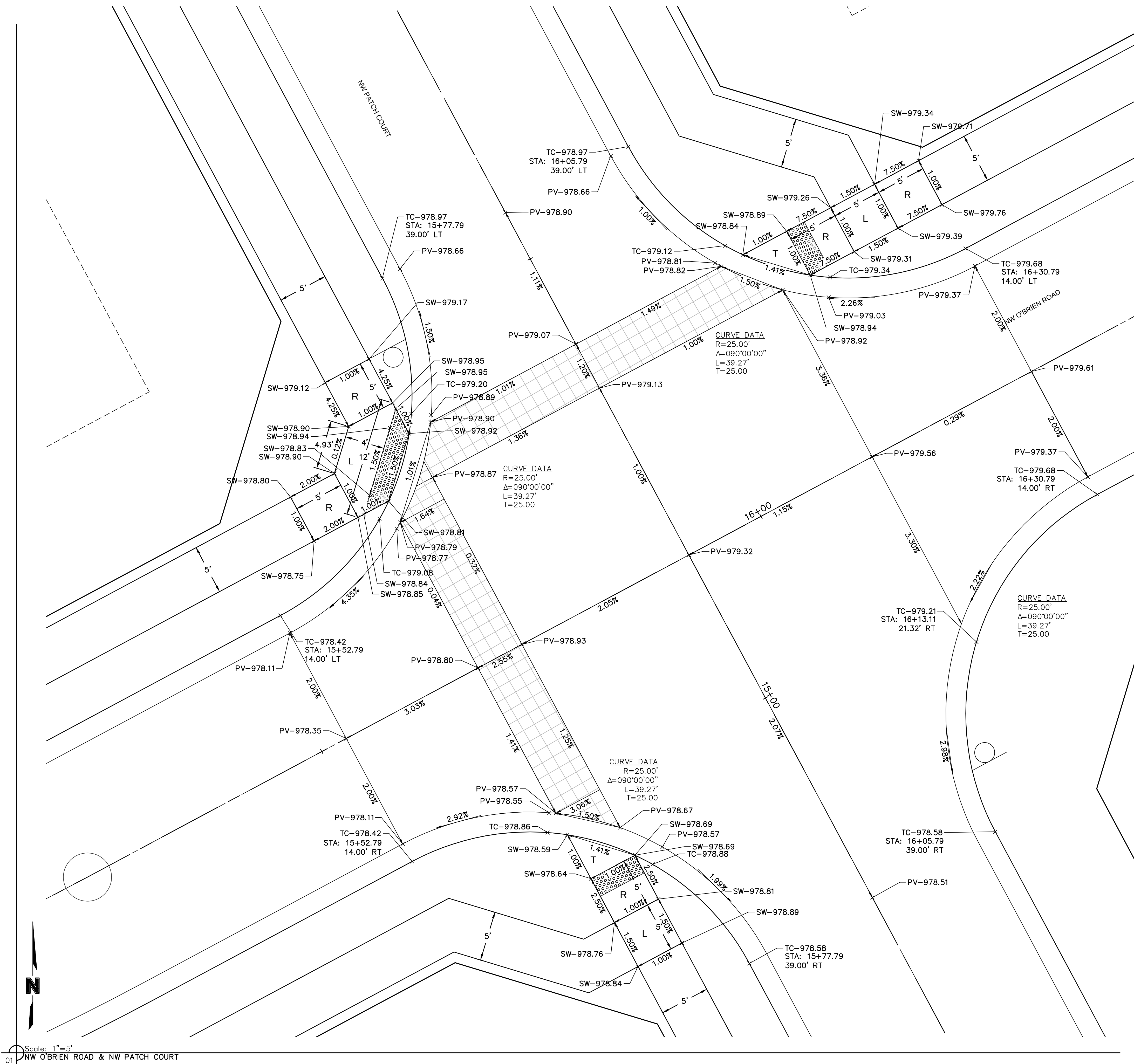


ASBUILT
03-24-2022



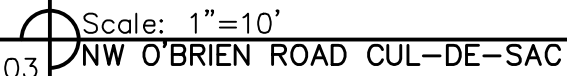
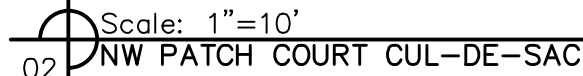
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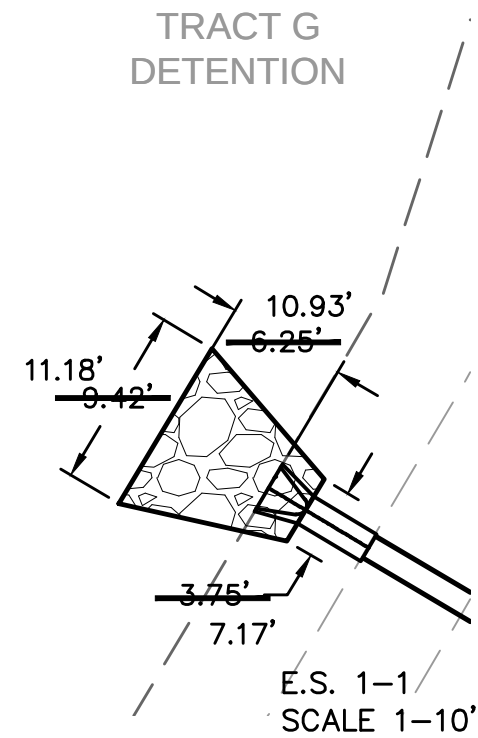


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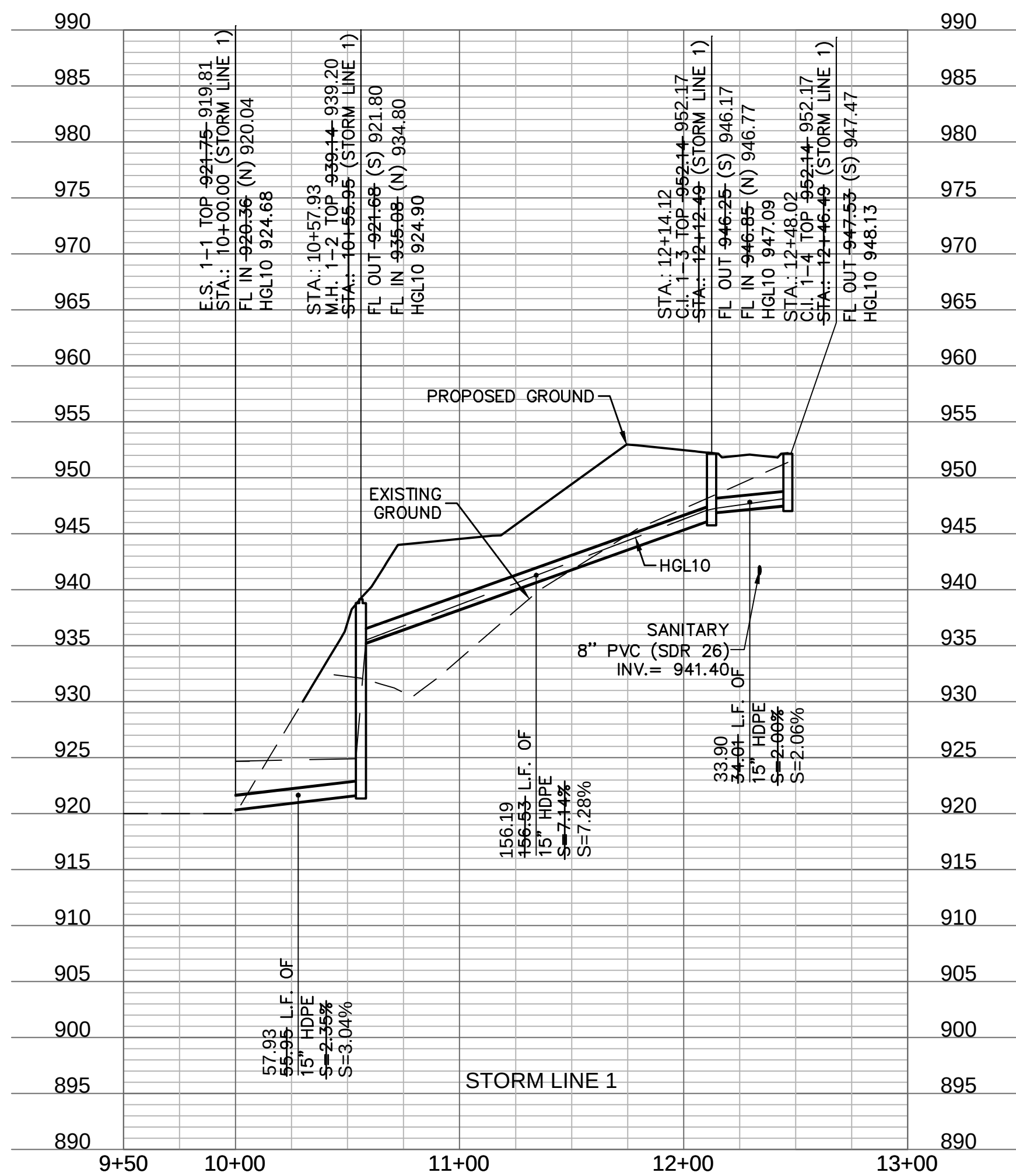
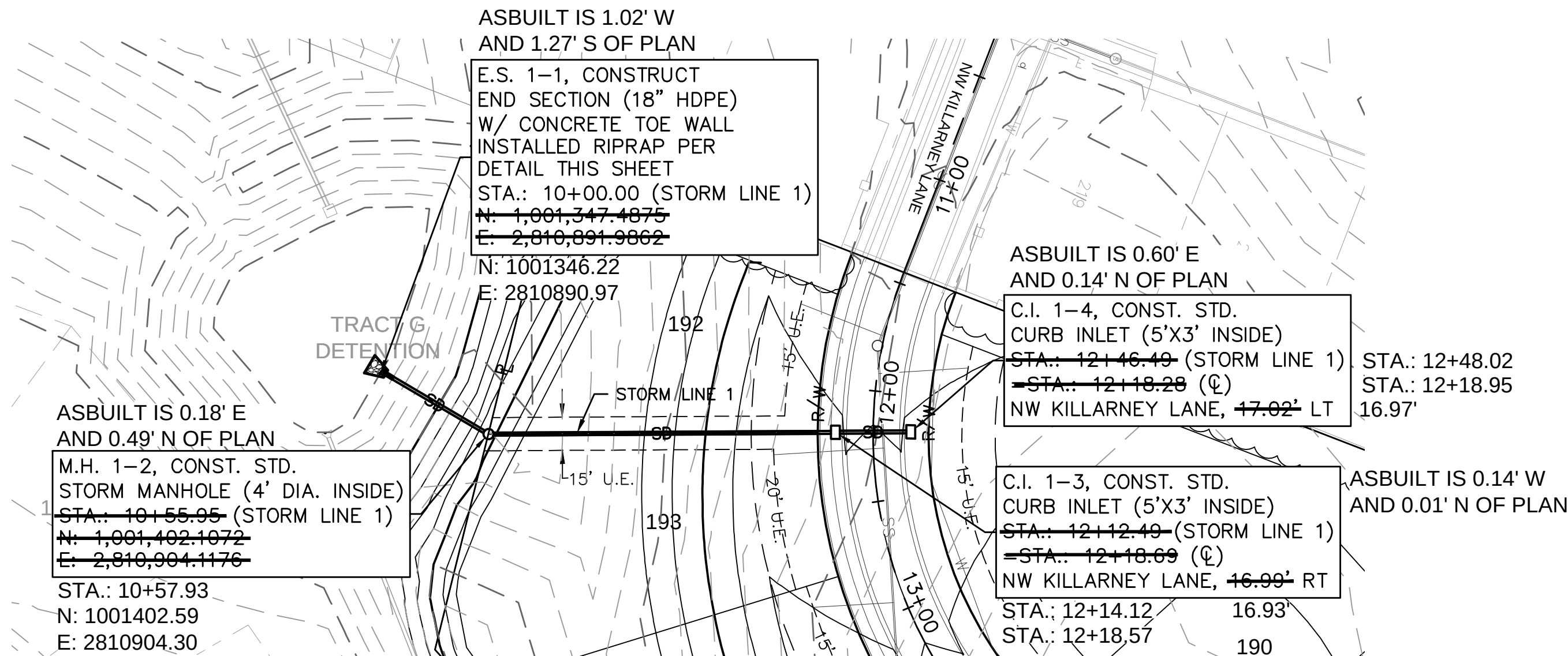
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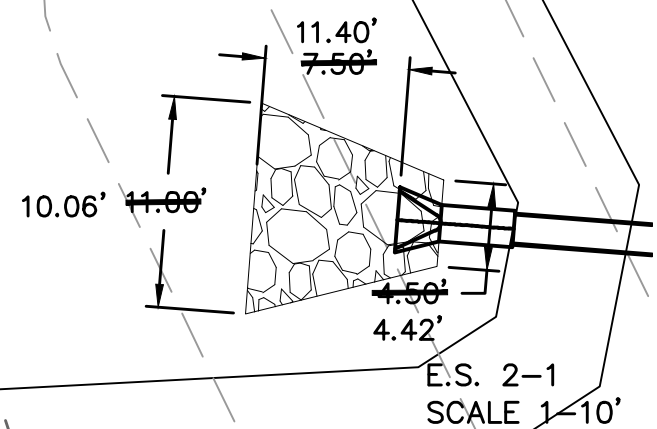
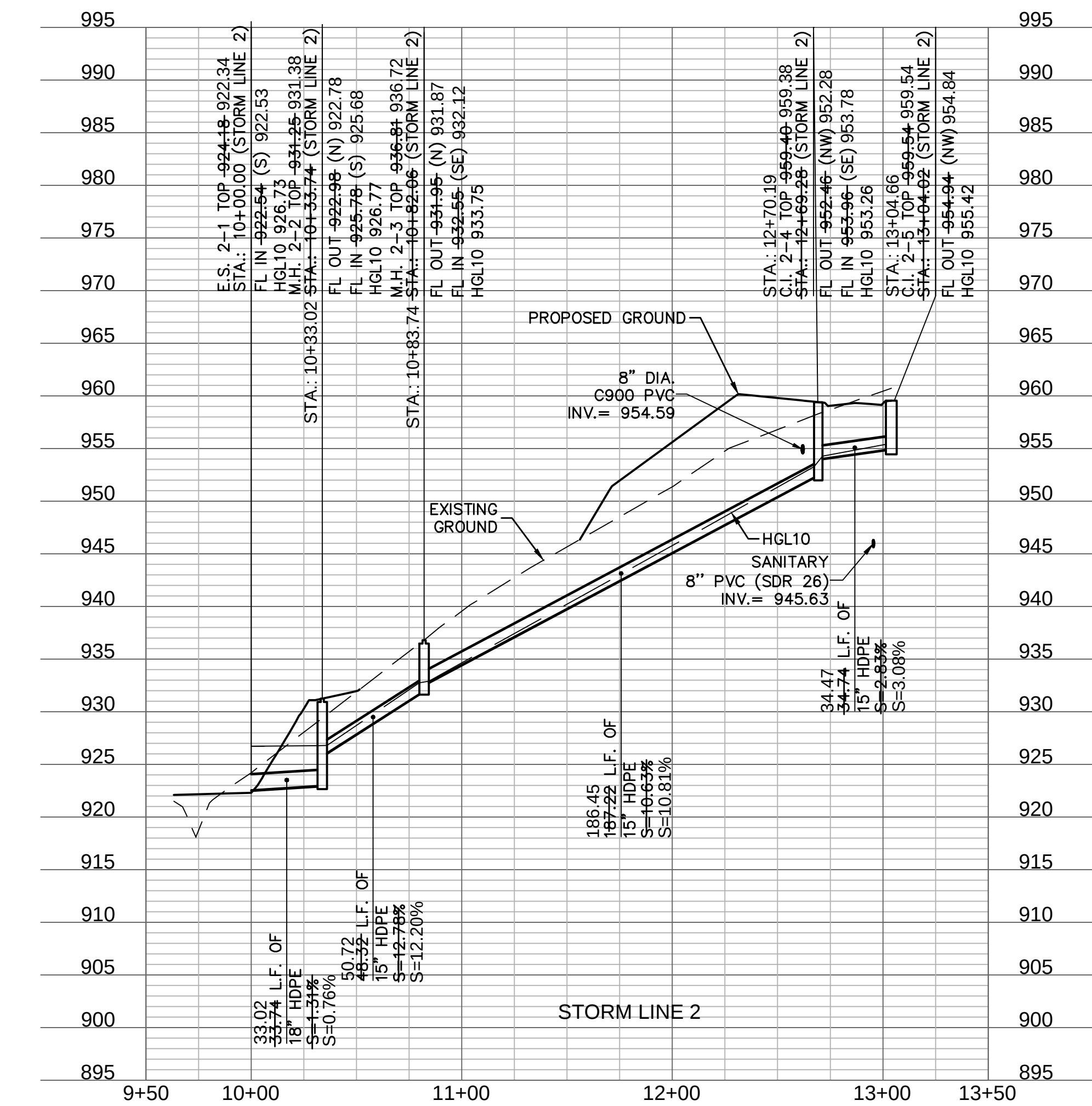
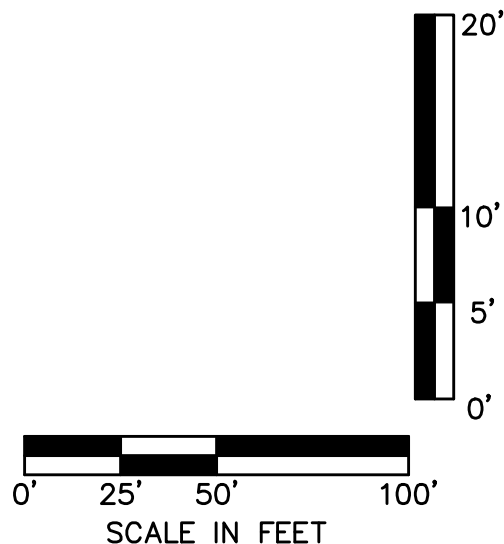
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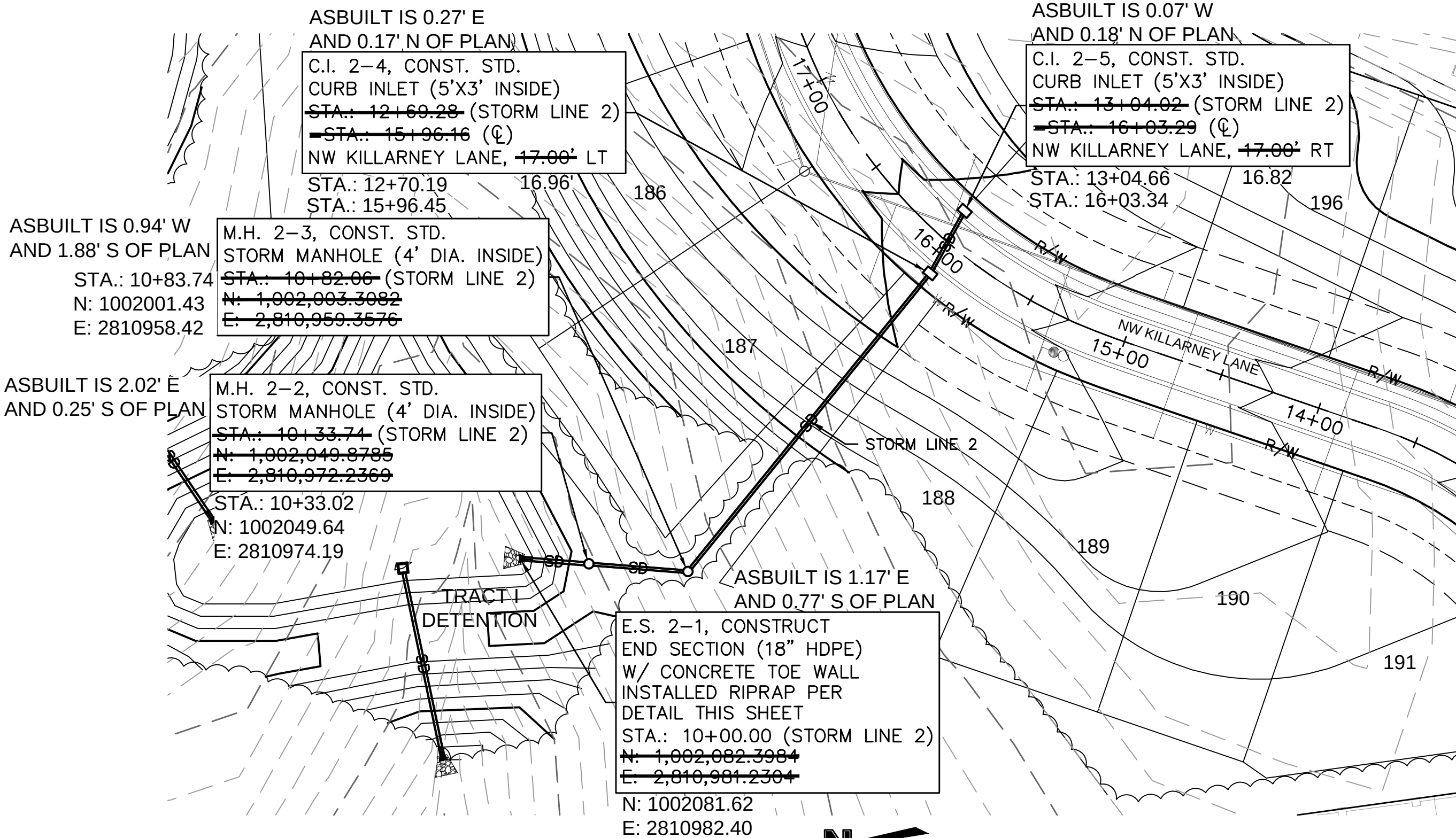
Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 1-1	7.34	1.25	3	10	6.25	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						19.74



ASBUILT
03-24-2022



Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 2-1	9.35	1.5	3	10	7.5	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						8.77



STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

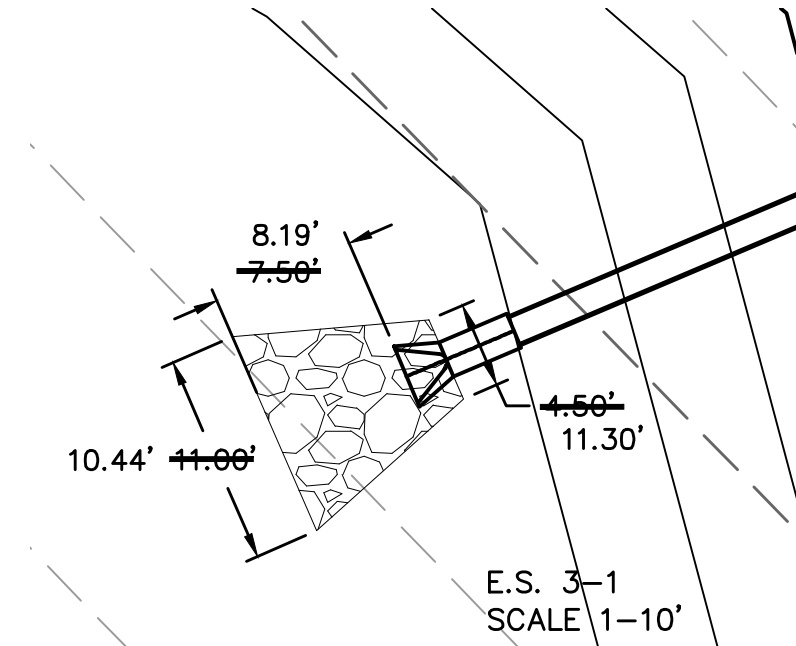
SHEET
C117

REVISIONS			
NO.	REV.	DATE	DESCRIPTION
2		3/16/2021	REVISED PER CONTRACTOR COMMENT



olsson

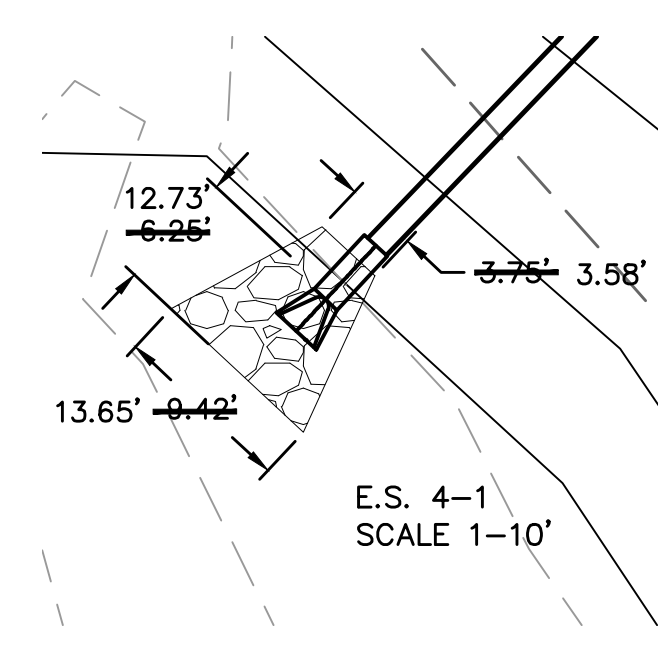
NO. 001-001-001-001-001
300 E. MAIN STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM



Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 3-1	7.83	1.5	3	10	7.5	2.00

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

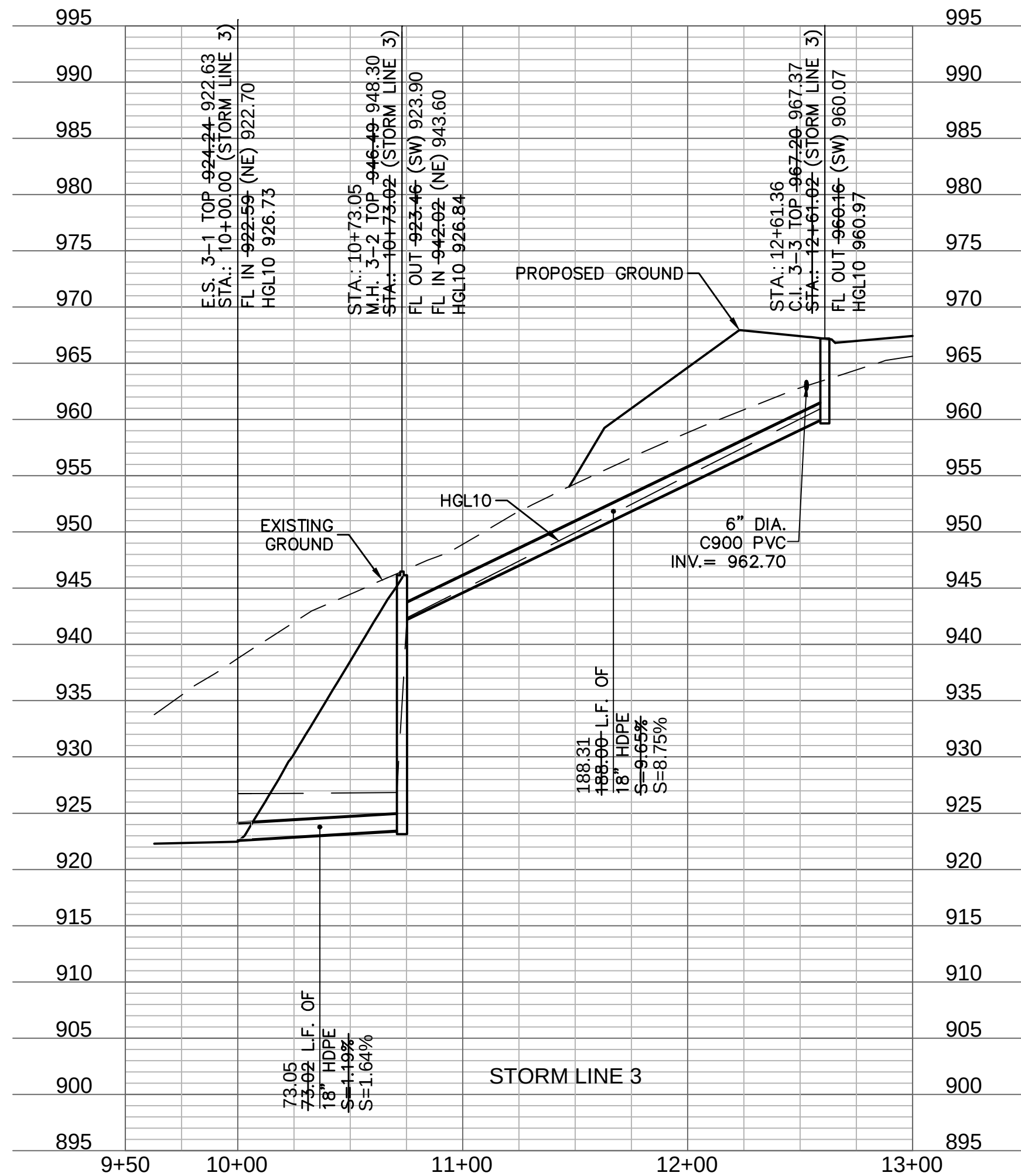
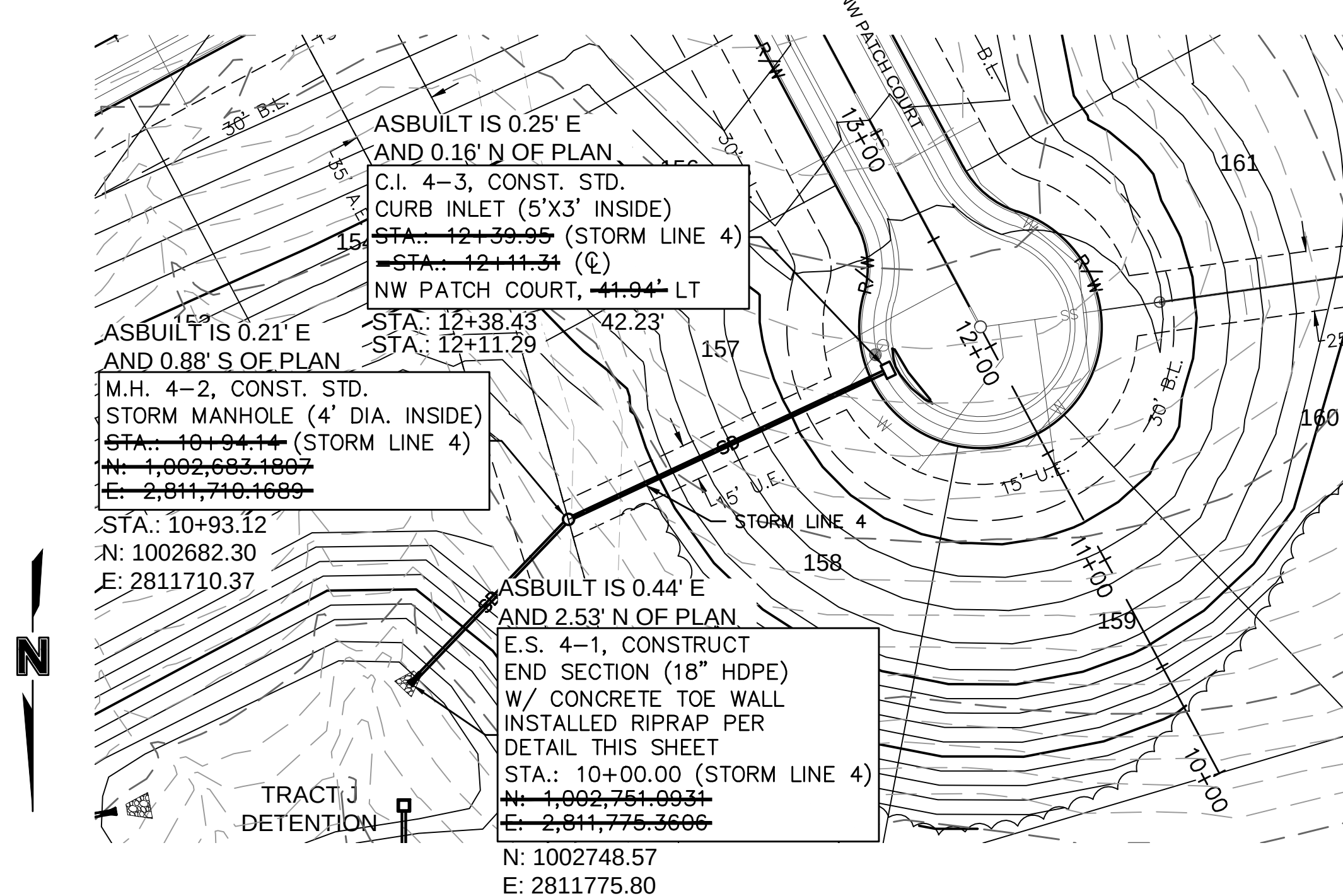
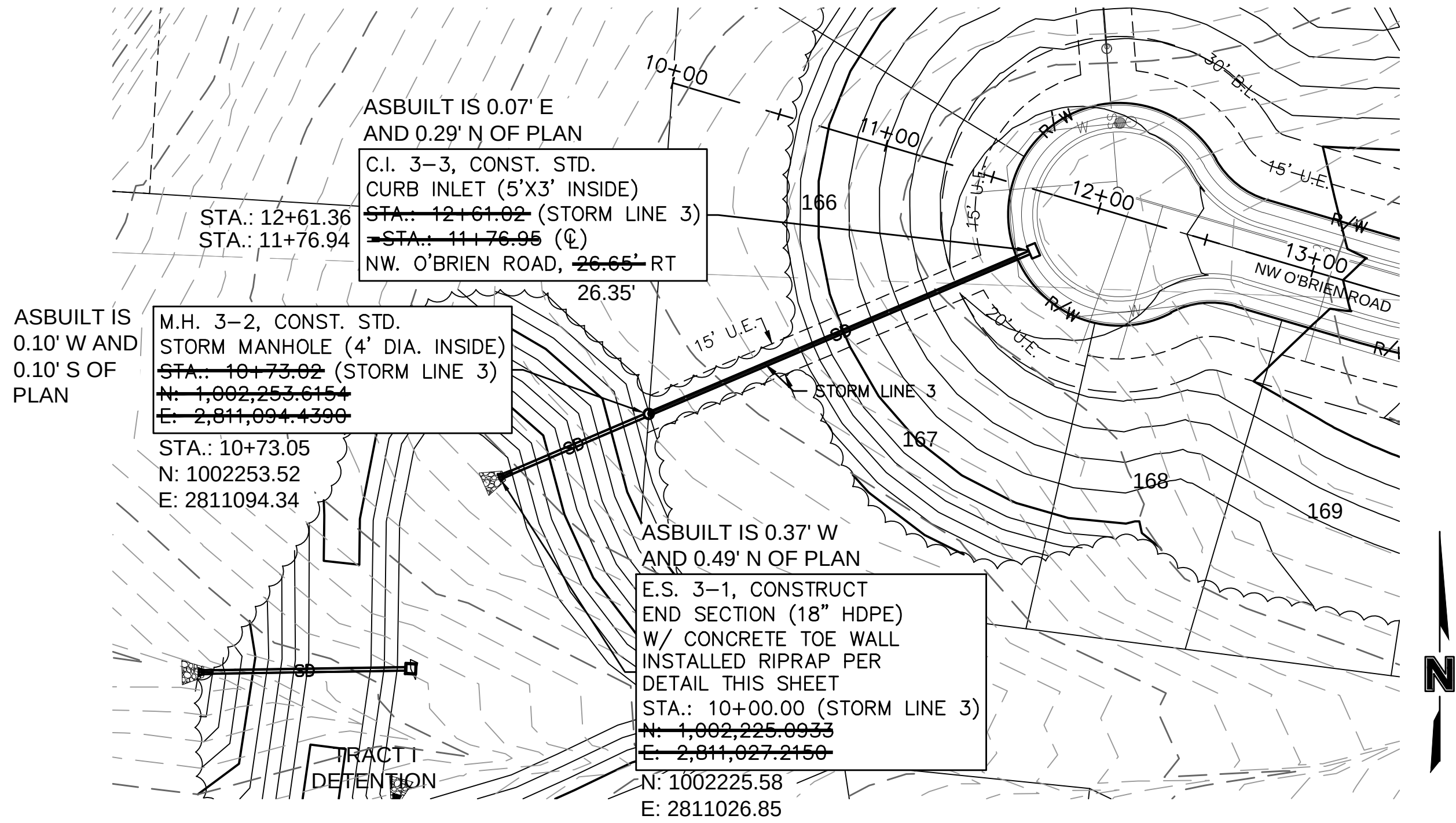
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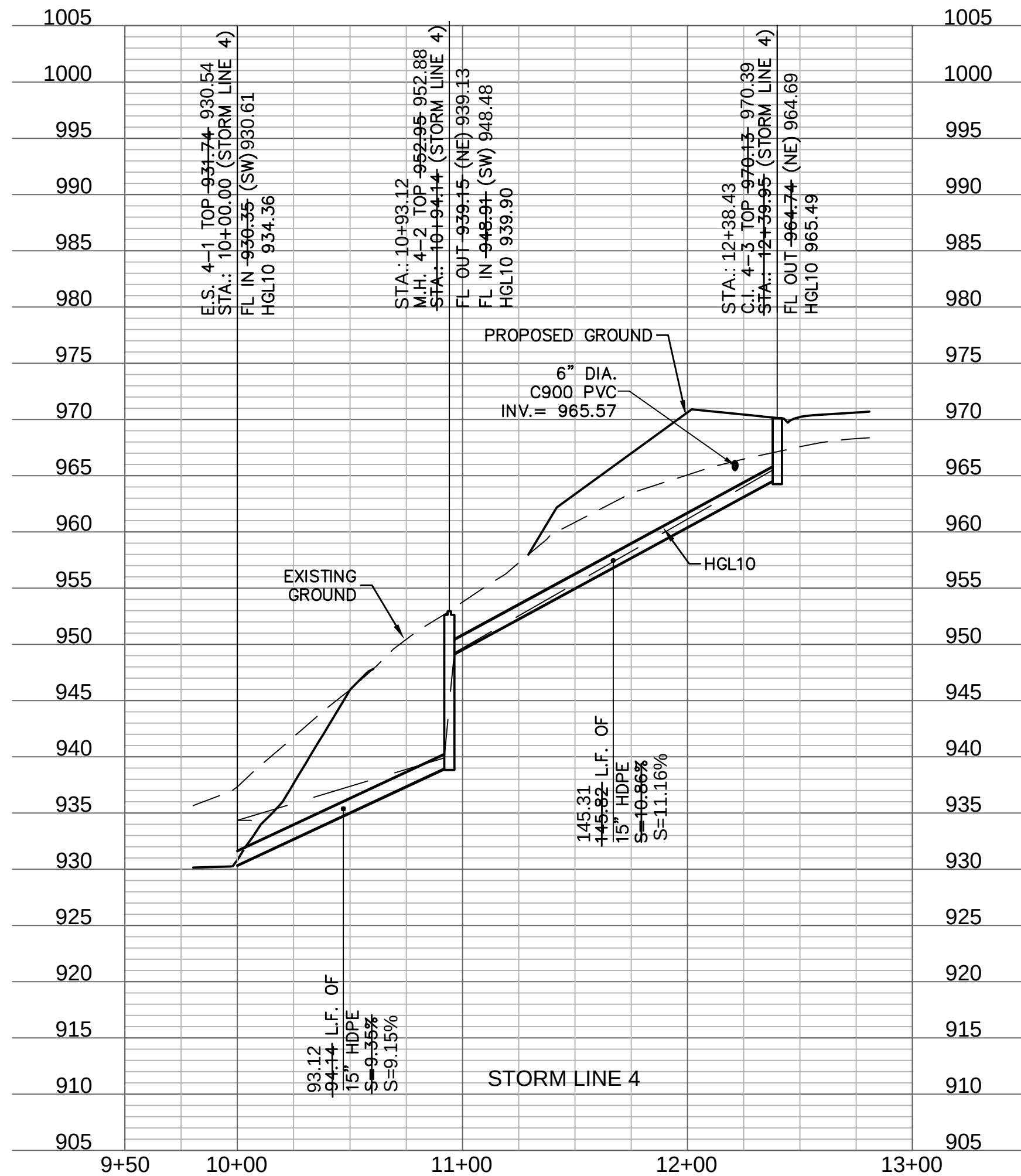
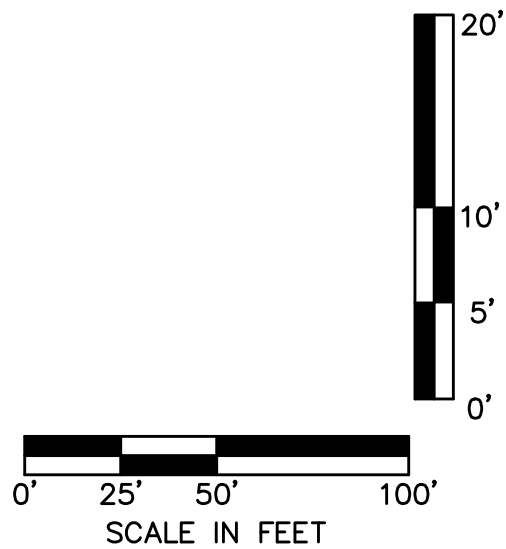
Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 4-1	6.05	1.25	3	10	6.25	2.00

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

13.71



ASBUILT
03-24-2022



STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C118

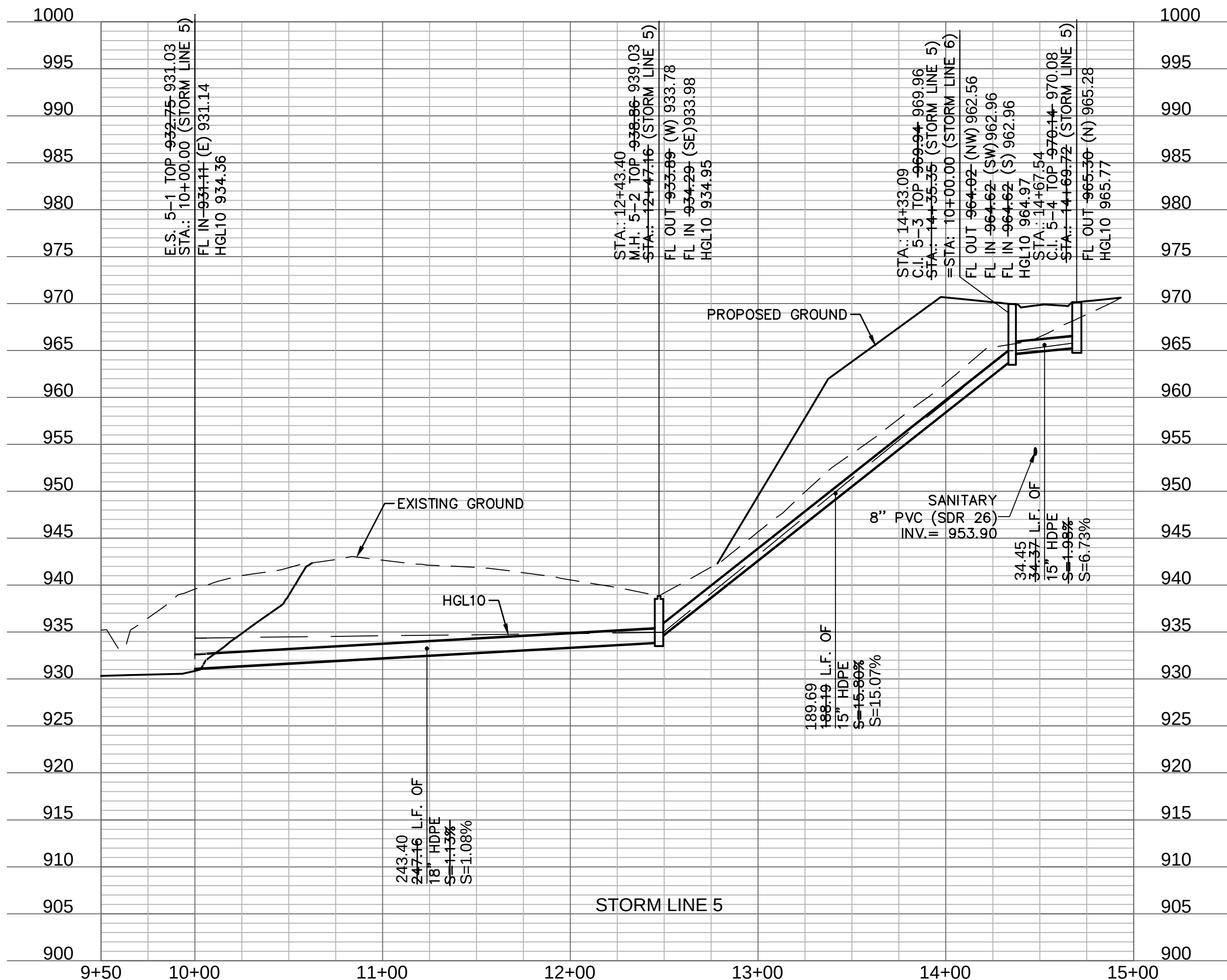
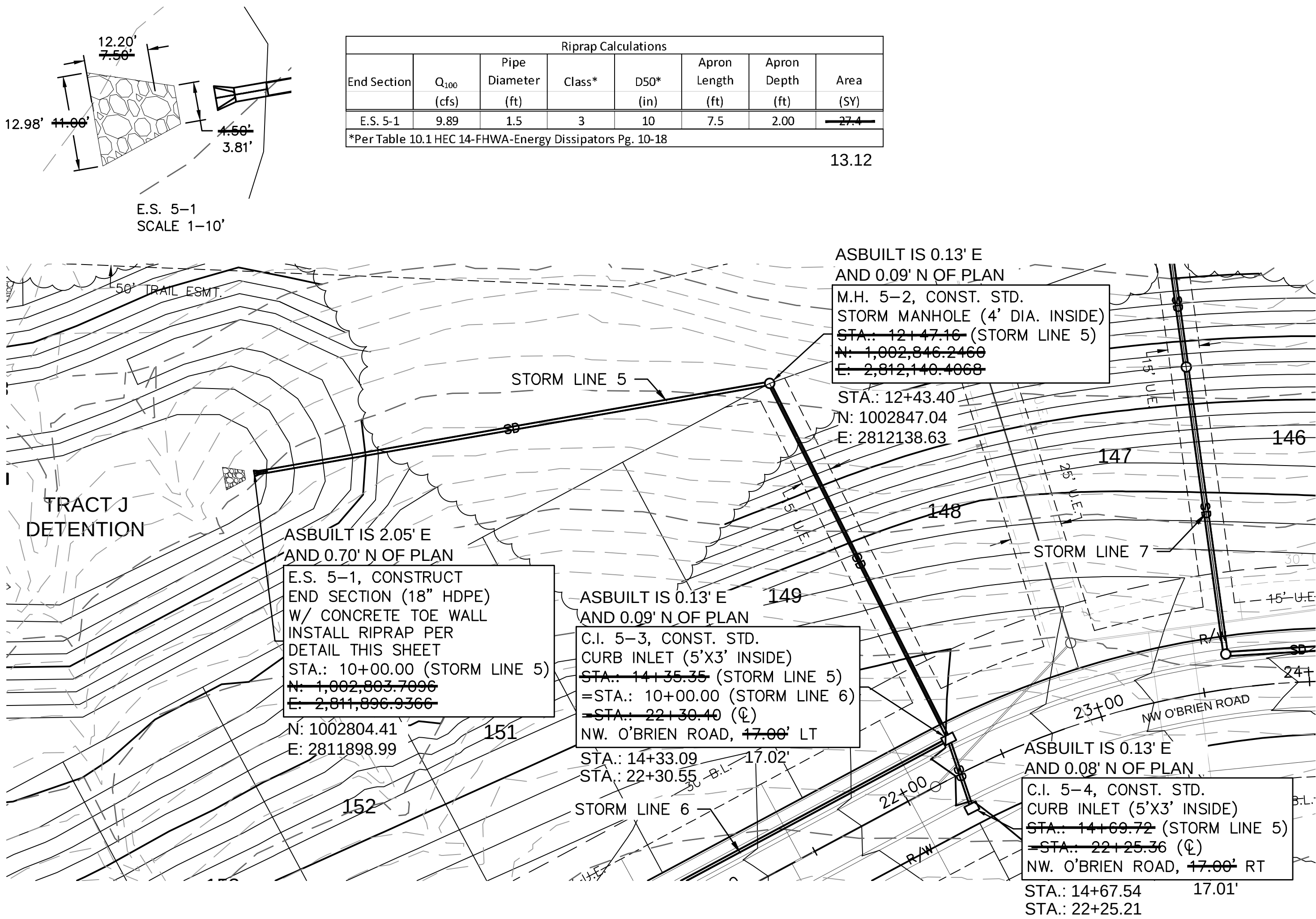
BY: _____
NO. REV. _____
DATE _____
REVISED PER CONTRACTOR COMMENT

REVISIONS DESCRIPTION

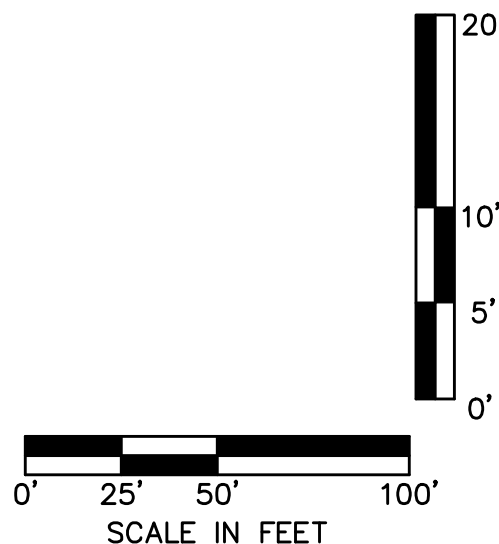


olsson

NO. 018-1140-001
303 RUPING STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM



ASBUILT
03-24-2022



STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C119

NO. REV. DATE REVISIONS DESCRIPTION

2 3/16/2021 REVISED PER CONTRACTOR COMMENT

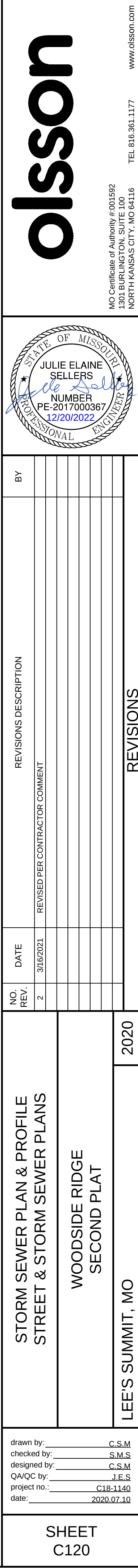
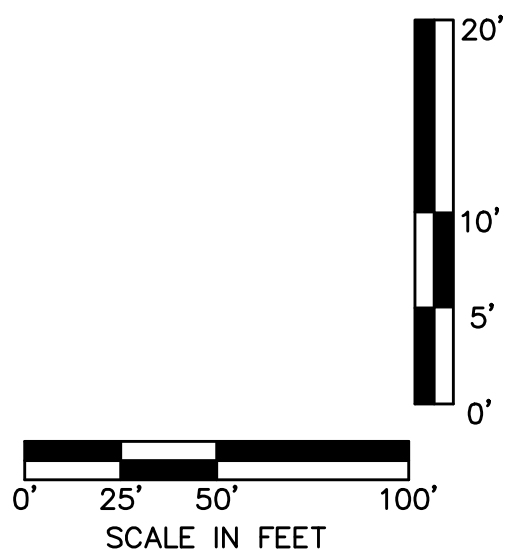
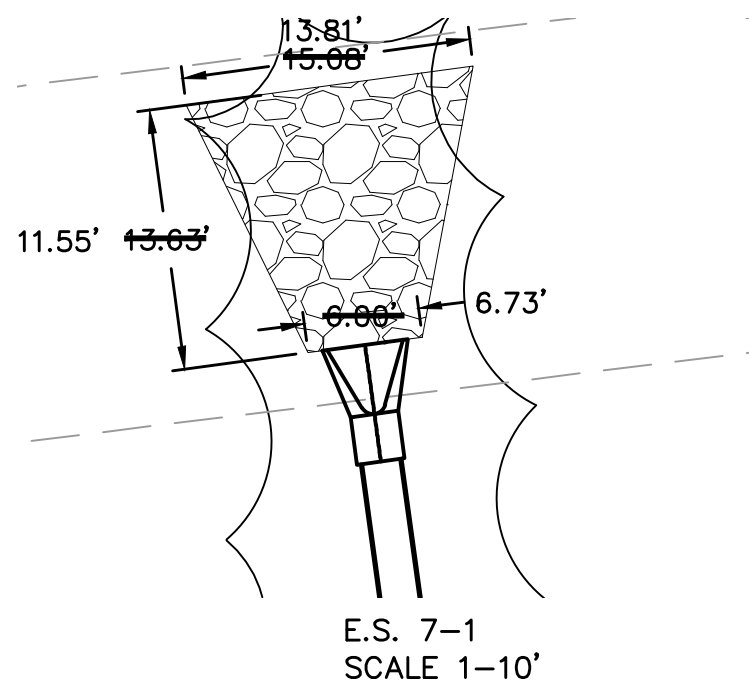
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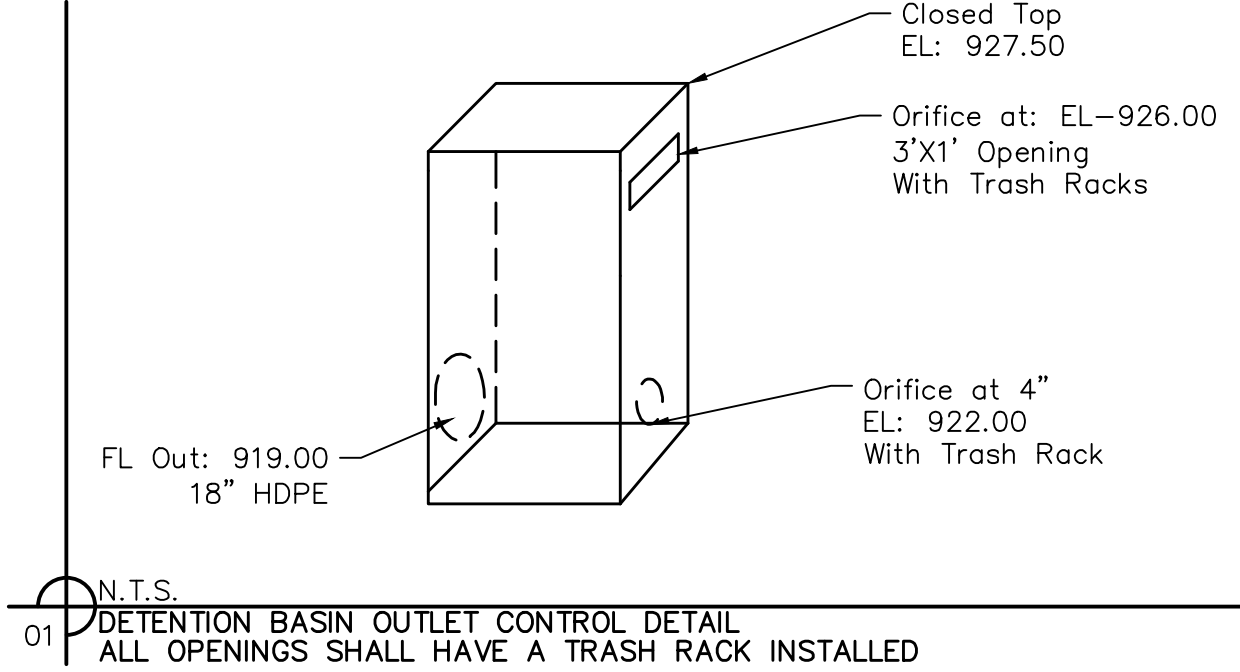


REVISIONS

olsson

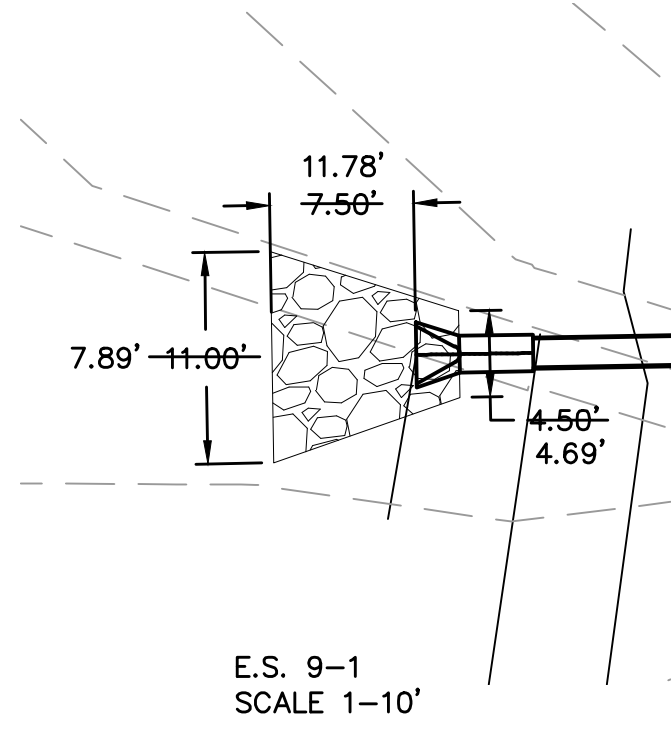
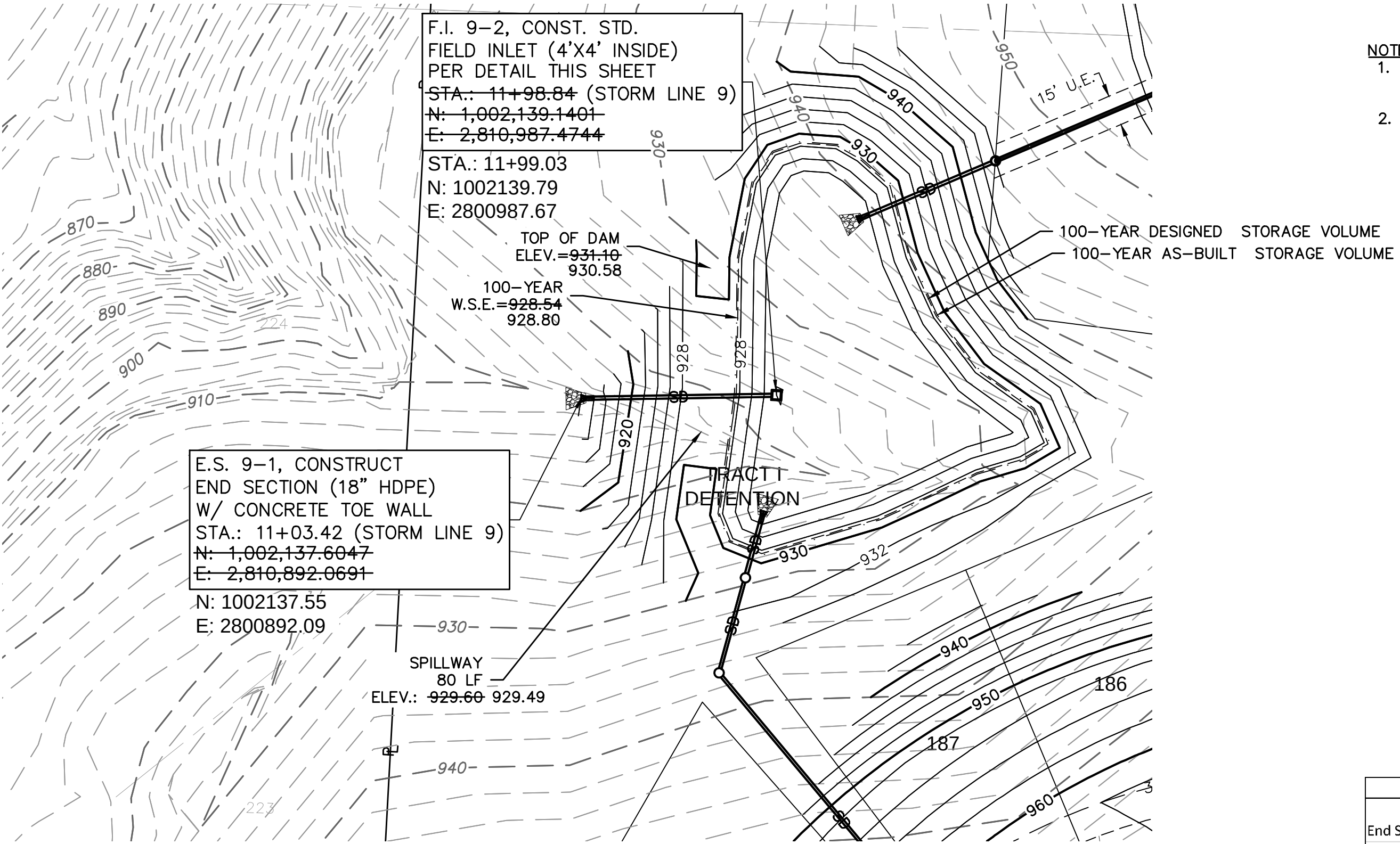
NO. 018-1140-001
301 E. BIRCH STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.381.1177
WWW.OLSSON.COM





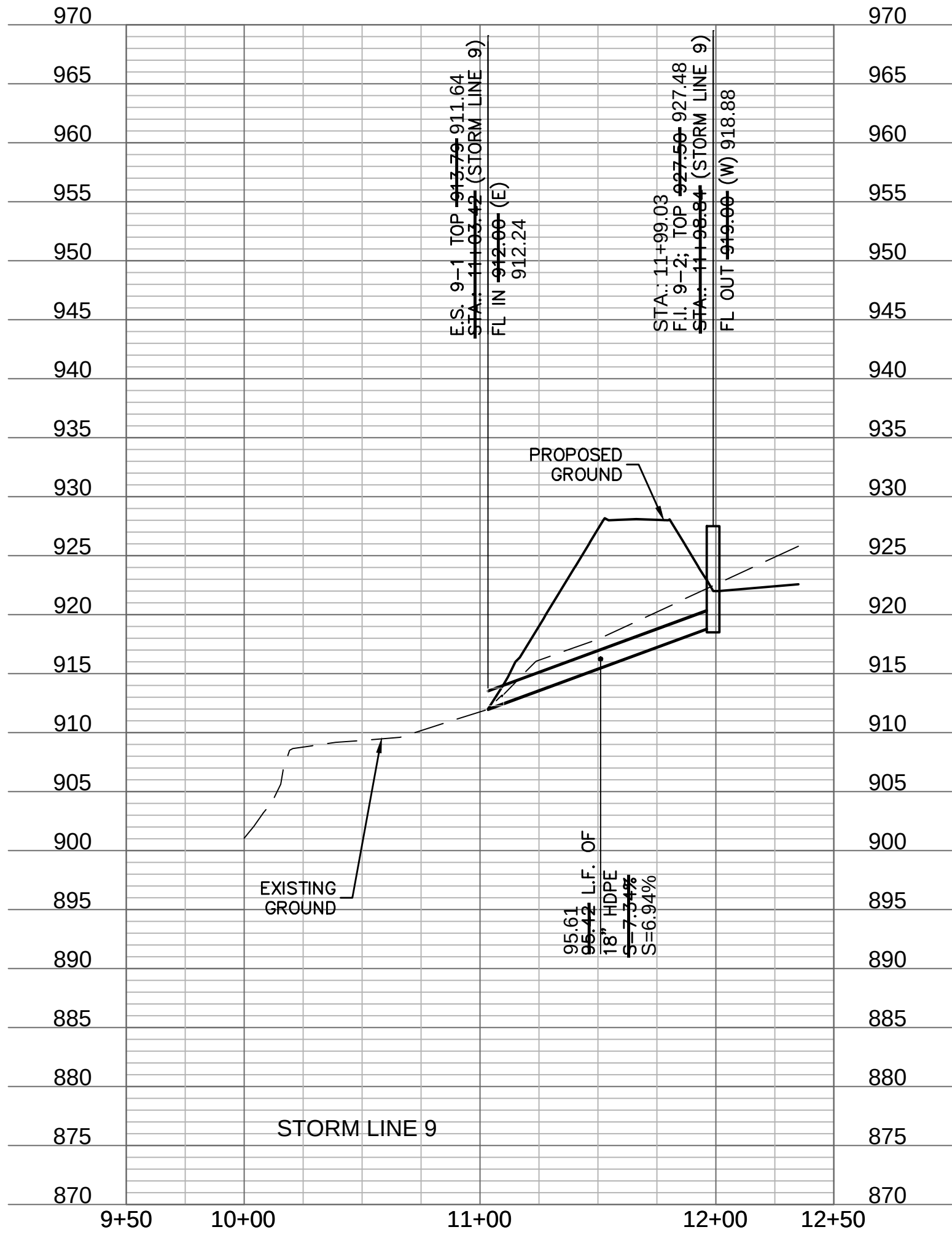
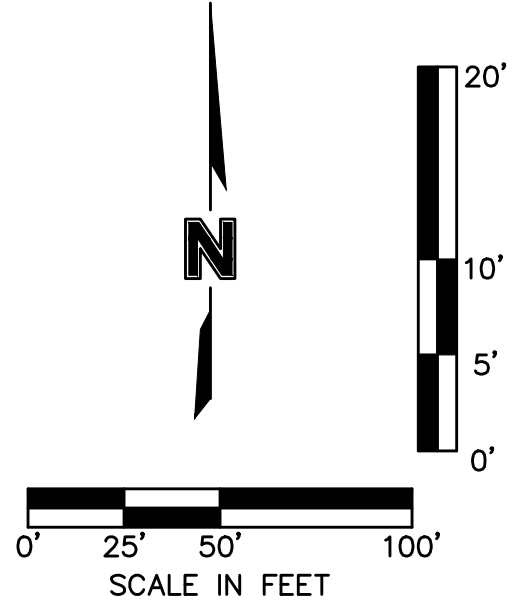
EARTHWORK QUANTITIES	
CUT (C.Y.)	FILL (C.Y.)
6,485	2,184

10yr. W.S.E.	100yr. W.S.E.
926.73	928.54



Riprap Calculations							
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (SY)
E.S. 9-1	23.91	1.5	3	10	7.5	2.00	27.4

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



ASBUILT
03-24-2022

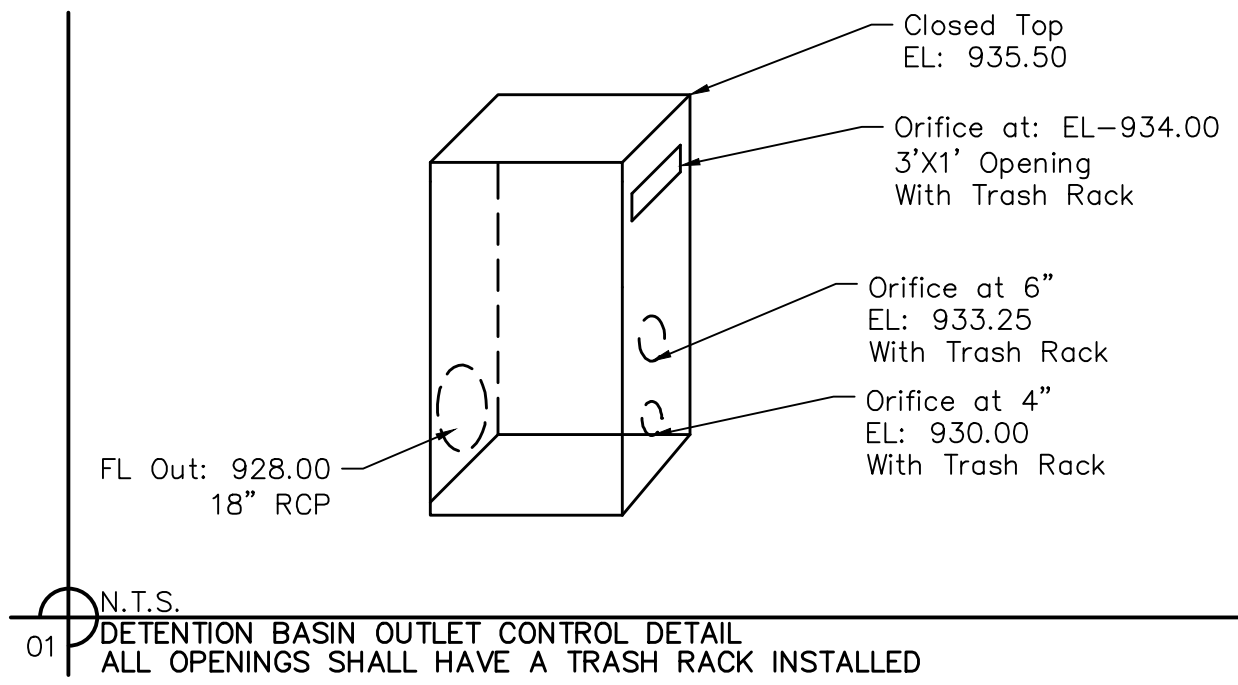
NOTES:

1. CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE STRUCTURE DIMENSIONS, INVERTS, AND STRUCTURAL REINFORCEMENT DETAILS ON THE PRINCIPAL SPILLWAY.

[illegible]

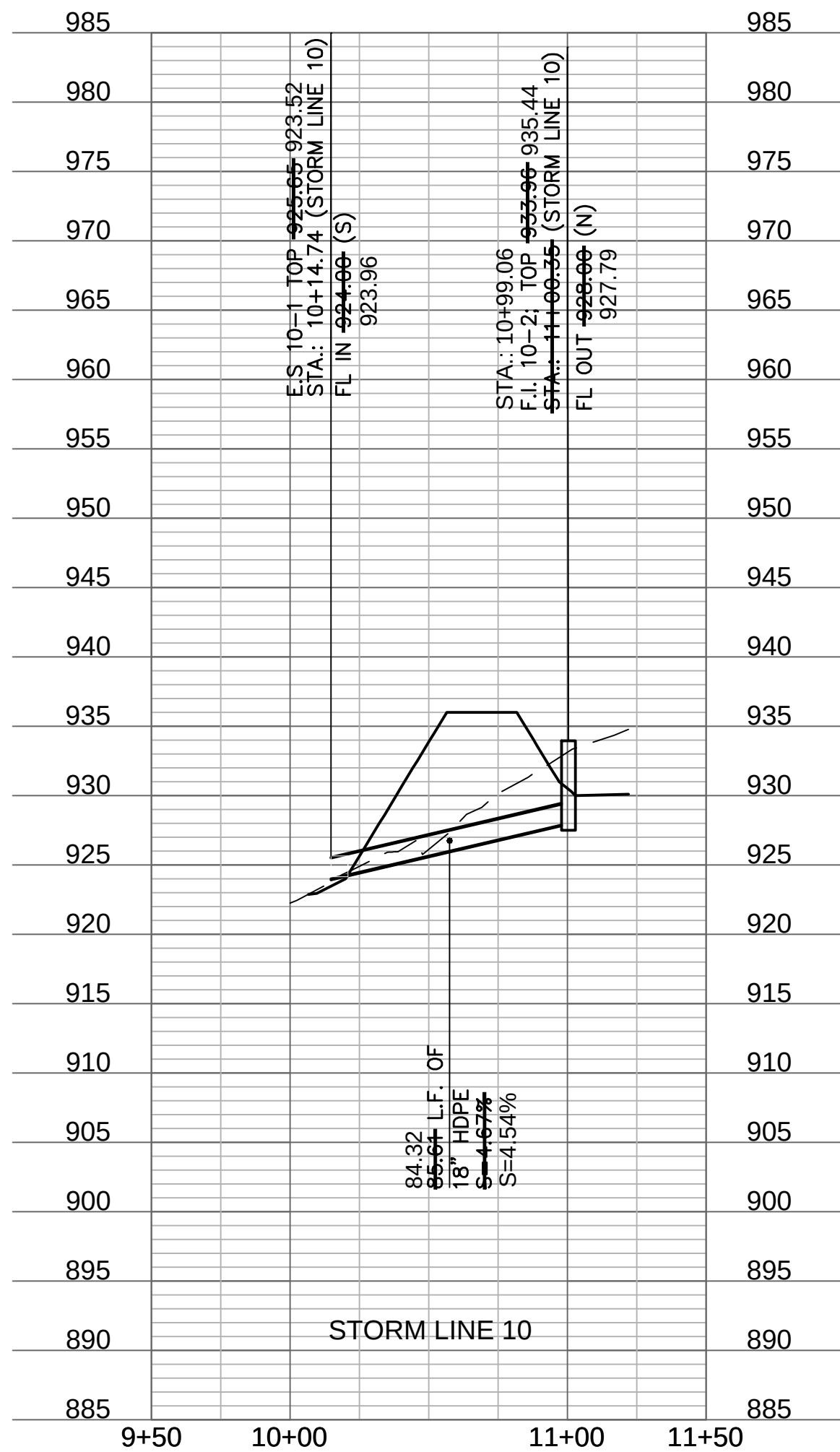
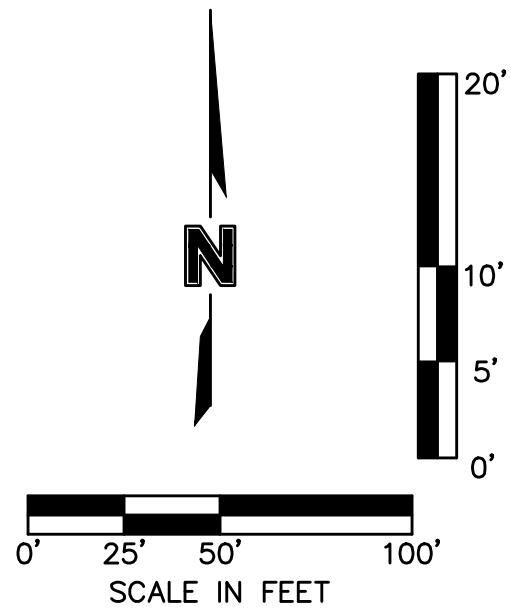
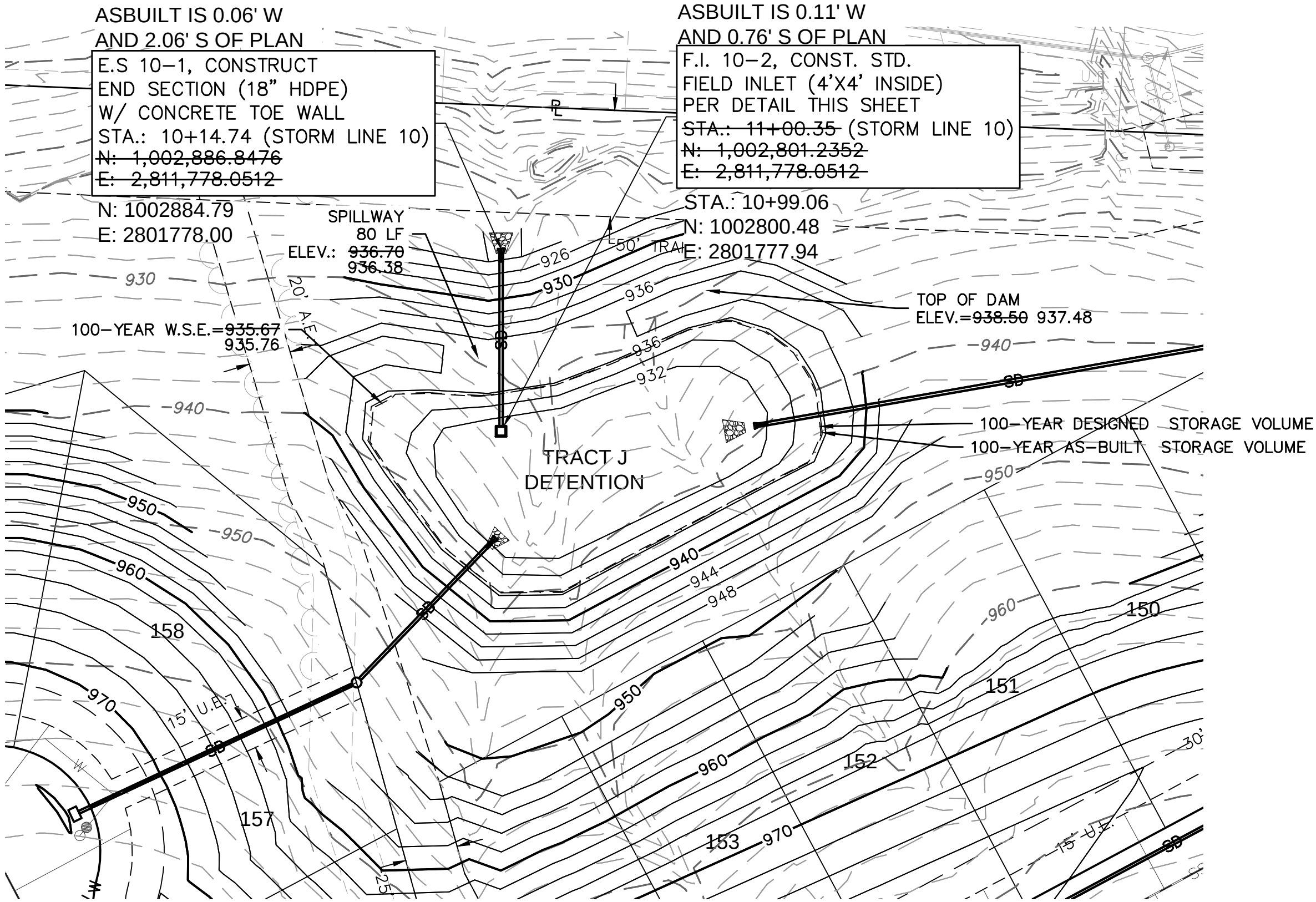
DETENTION BASIN PLAN STREET & STORM SEWER PLANS	2020
WOODSIDE RIDGE SECOND PLAT	FF'S SUMMIT MO

drawn by: _____ C.S.M
checked by: _____ S.M.S
designed by: _____ C.S.M
QA/QC by: _____ J.E.S
project no.: _____ C18-1140
date: _____ 2020.07.10

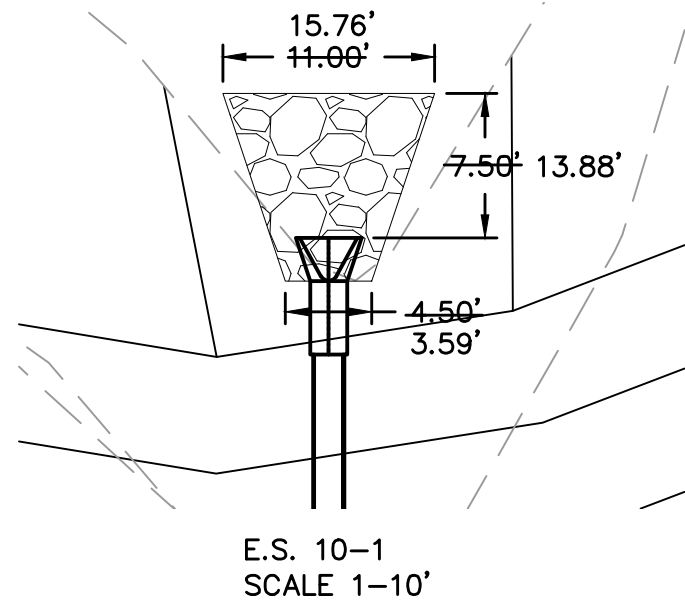


EARTHWORK QUANTITIES	
CUT (C.Y.)	FILL (C.Y.)
4,012	2,535

10yr. W.S.E.	100yr. W.S.E.
934.36	935.67



- NOTES:
- CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE STRUCTURE DIMENSIONS, INVERTS, AND STRUCTURAL REINFORCEMENT DETAILS ON THE PRINCIPAL SPILLWAY.



Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 10-1	18.41	1.5	3	10	7.5	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						23.84

ASBUILT
03-24-2022

NO. 001001 of Authority of 031892
300 E. BROADWAY, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
12/20/2022
PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

NO. REV.

DATE

DETENTION BASIN PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

drawn by: _____ C.S.M.
checked by: _____ S.M.S.
designed by: _____ C.S.M.
QA/QC by: _____ J.E.S.
project no.: C18-1140
date: 2020.07.10

2020

SHEET
C122



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

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

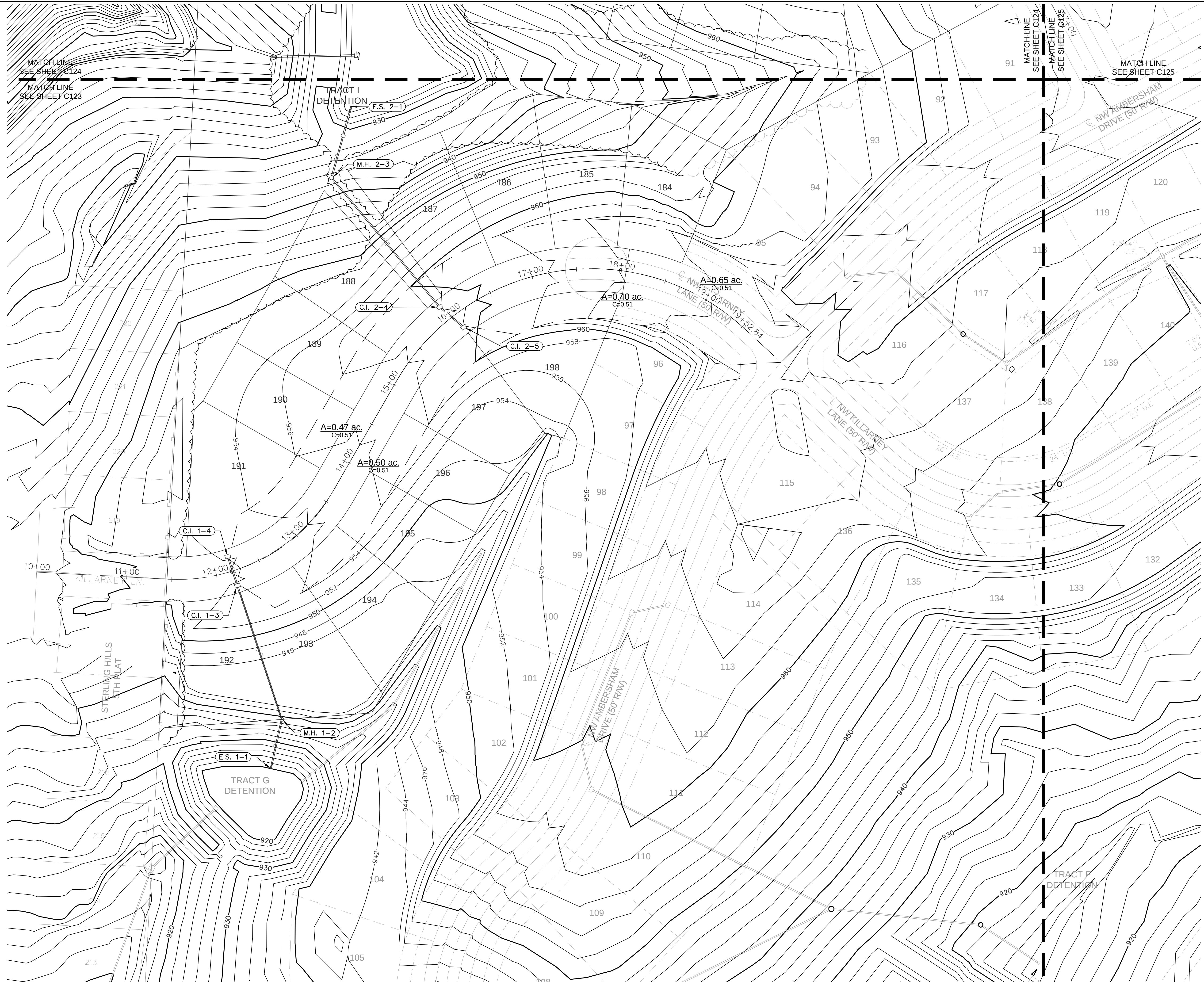
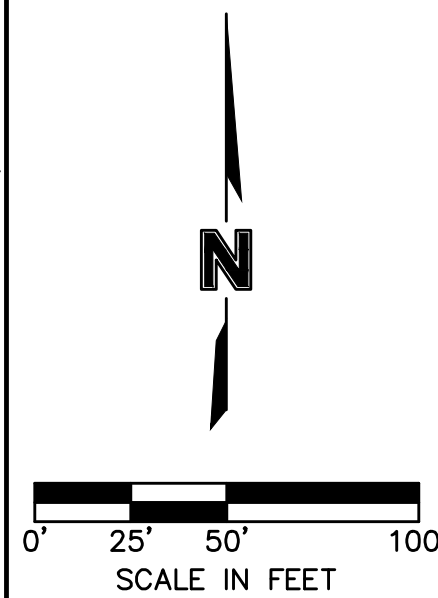
2. PLAT IS LOCATED IN ZONE X, "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANCE SHEET FLOW FLOODING WHERE THE AVERAGE DEPTHS ARE LESS THAN 1 FOOT, AREAS OF 1-PERCENT ANNUAL CHANCE STREAM FLOODING WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 SQUARE MILE, OR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

3. BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.

4. MLO ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN CORNER MBOES SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.

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

NOT ASBUILT



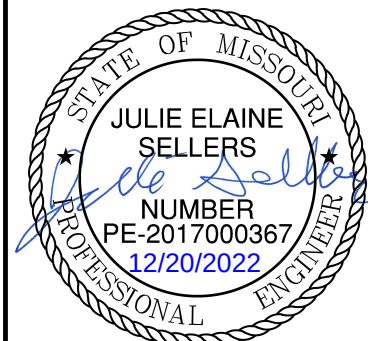
USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C_DRN02_C181140.dwg

DWG: F:\2018\1001-1500\018-
DATE: Oct 17, 2022 12:44pm

Olsson

MO Certificate of Authority #:001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY MO 64116

[illegible]

REVISIONS

DRAINAGE PLAN STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

drawn by: C.S.M
checked by: S.M.S
designed by: C.S.M
QA/QC by: J.E.S
project no.: C18-1140
date: 2020.07.10

SHEET
C123

USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C.DRN02_C181140.dwg
DATE: Oct 17, 2022 12:44pm

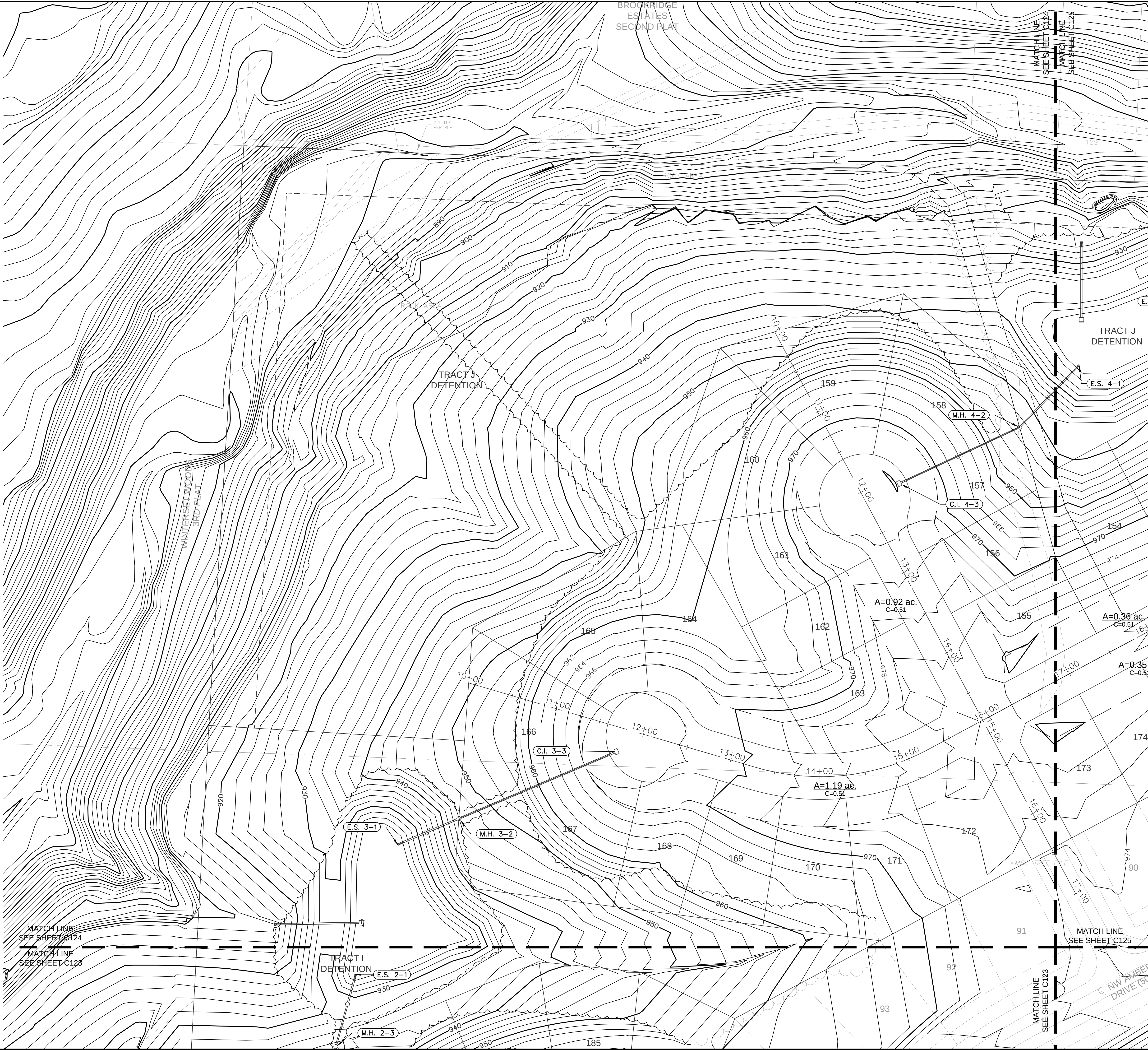
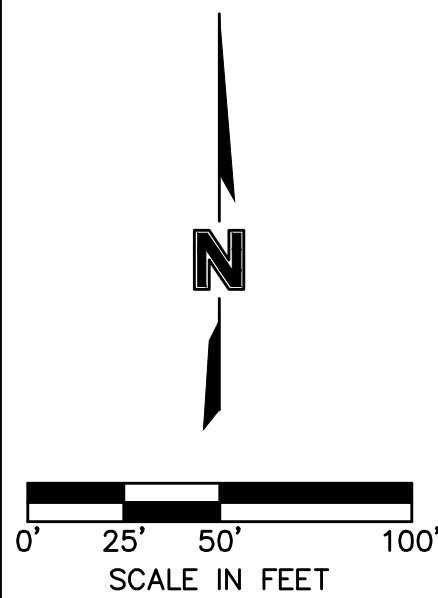


KEY MAP

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

- NOTES:
- INDIVIDUAL LOT OWNERS SHALL NOT CHANGE OR OBSTRUCT THE DRAINAGE FLOW LINES OR PATHS ON THE LOTS, AS SHOWN ON THE MASTER DRAINAGE PLAN, UNLESS SPECIFIC APPLICATION IS MADE AND APPROVED BY THE CITY ENGINEER.
 - PLAT IS LOCATED 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"
 - BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.
 - MLO ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN CORNER MBOES SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.
 - NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.

NOT ASBUILT



BY

NO. REV.

DATE

REVISIONS DESCRIPTION

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

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

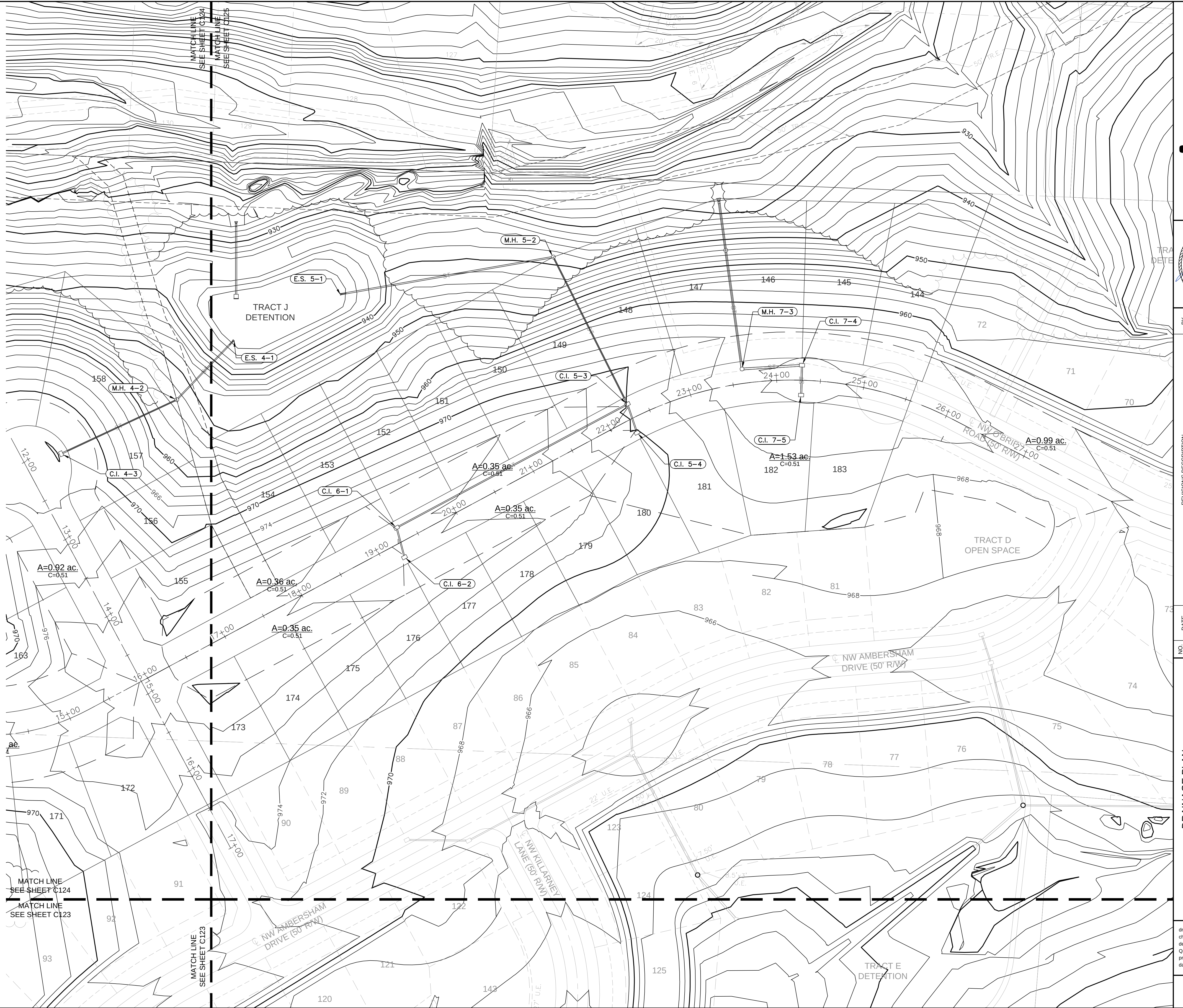
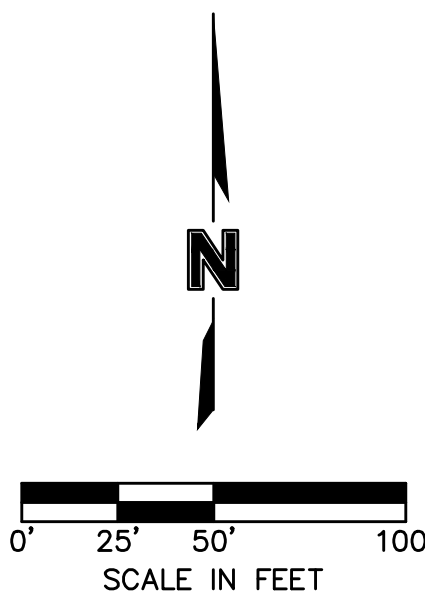
2. PLAT IS LOCATED IN ZONE X, "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANCE SHEET FLOW FLOODING WHERE THE AVERAGE DEPTHS ARE LESS THAN 1 FOOT, AREAS OF 1-PERCENT ANNUAL CHANCE STREAM FLOODING WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 SQUARE MILE, OR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

3. BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.

4. MLO ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN CORNER MBOES SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.

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

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C_DRN02_C181140.dwg



STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
12/20/2022
PROFESSIONAL ENGINEER

[illegible]

DRAINAGE PLAN

STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

Drawn by: C.S.M
 Checked by: S.M.S
 Designed by: C.S.M
 A/QC by: J.E.S
 Project no.: C18-1140
 Date: 2020.07.10

SHEET
C125

osion

MO Certificate of Authority #001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.361.1177
www.djssson.com

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. 5-2	Outfall	253.96	933.89	930.00	1.53	18	0.012	5.48	3.60	14.08	1.50	934.95
C.I. 5-3	M.H. 5-2	188.19	964.02	934.29	15.80	15	0.012	5.48	6.22	27.80	0.77	964.97
C.I. 6-1	C.I. 5-3	299.05	971.17	964.62	2.19	15	0.012	2.66	5.58	10.35	0.43	971.82
C.I. 6-2	C.I. 6-1	34.93	972.17	971.37	2.29	15	0.012	1.31	3.27	10.59	0.45	972.62j
C.I. 5-4	C.I. 5-3	34.40	965.30	964.62	1.98	15	0.012	1.41	4.20	9.84	0.35	965.77
M.H. 7-2	Outfall	42.64	925.43	925.00	1.01	24	0.012	10.22	6.48	24.61	0.90	926.57
M.H. 7-3	M.H. 7-2	178.96	955.95	925.75	16.88	24	0.012	10.22	6.94	100.66	0.82	957.09
C.I. 7-4	M.H. 7-3	68.71	957.92	956.55	1.99	24	0.012	10.22	7.54	34.60	0.75	959.06
C.I. 7-5	C.I. 7-4	34.00	959.20	958.52	2.00	18	0.012	6.12	6.82	16.09	0.64	960.15
M.H. 2-2	Outfall	33.74	922.67	922.00	1.99	18	0.012	3.94	2.23	16.03	1.50	926.77
M.H. 2-3	M.H. 2-2	48.32	931.95	925.78	12.77	15	0.012	3.94	4.20	25.00	1.02	932.75j
C.I. 2-4	M.H. 2-3	187.22	952.46	932.55	10.63	15	0.012	3.94	9.33	22.81	0.35	953.26
C.I. 2-5	C.I. 2-4	34.74	954.94	953.96	2.82	15	0.012	1.50	4.99	11.75	0.30	955.42
M.H. 4-2	Outfall	91.51	939.15	930.00	10.00	15	0.012	3.45	3.65	22.12	1.25	939.90j
C.I. 4-3	M.H. 4-2	145.82	964.74	948.91	10.86	15	0.012	3.45	8.99	23.05	0.33	965.49
M.H. 1-2	Outfall	55.95	921.68	920.00	3.00	15	0.012	4.34	3.54	12.12	1.25	924.90
C.I. 1-3	M.H. 1-2	156.54	946.25	935.08	7.14	15	0.012	4.34	8.66	18.69	0.41	947.09
C.I. 1-4	C.I. 1-3	34.01	947.53	946.85	2.00	15	0.012	2.27	5.21	9.89	0.41	948.13
M.H. 3-2	Outfall	73.02	923.46	922.00	2.00	18	0.012	4.46	2.52	16.09	1.50	926.84
C.I. 3-3	M.H. 3-2	188.00	960.16	942.02	9.65	18	0.012	4.46	9.13	35.34	0.36	960.97

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. 5-3	GRADE	1.31	0.10	1.41	1.00	1.12	1.12	1.12	0.29	79.64%	0.12	5.85	...
C.I. 5-4	GRADE	1.31	0.09	1.41	1.00	1.12	1.12	1.12	0.29	79.72%	0.12	5.85	...
C.I. 6-1	GRADE	1.35	0.00	1.35	1.00	1.25	1.25	1.25	0.10	92.60%	0.15	7.46	...
C.I. 6-2	GRADE	1.31	0.00	1.31	1.00	1.22	1.22	1.22	0.09	92.83%	0.15	7.38	...
C.I. 7-4(L)	SAG	0.75	0.39	1.14	0.80	19.40	15.52	1.14	0.00	100.00%	0.14	6.76	...
C.I. 7-4(R)	SAG	2.25	0.00	2.25	0.80	19.40	15.52	2.25	0.00	100.00%	0.14	6.97	...
C.I. 7-4(B)	SAG	0.71	0.00	0.71	0.80	19.40	15.52	0.71	0.00	100.00%	...	...	...
C.I. 7-4	SAG	3.71	0.39	4.10	0.80	19.40	15.52	4.10	0.00	100.00%	...	...	...
C.I. 7-5(L)	SAG	2.25	0.38	2.63	0.80	19.40	15.52	2.63	0.00	100.00%	0.15	7.39	...
C.I. 7-5(R)	SAG	1.61	0.00	1.61	0.80	19.40	15.52	1.61	0.00	100.00%	0.15	7.71	...
C.I. 7-5(B)	SAG	1.88	0.00	1.88	0.80	19.40	15.52	1.88	0.00	100.00%	...	...	...
C.I. 7-5	SAG	5.74	0.38	6.12	0.80	19.40	15.52	6.12	0.00	100.00%	...	...	...
C.I. 4-3(L)	SAG	2.29	0.00	2.29	0.80	19.40	15.52	2.29	0.00	100.00%	0.14	7.13	...
C.I. 4-3(R)	SAG	0.53	0.00	0.53	0.80	19.40	15.52	0.53	0.00	100.00%	0.10	5.03	...
C.I. 4-3(B)	SAG	0.64	0.00	0.64	0.80	19.40	15.52	0.64	0.00	100.00%	...	...	...
C.I. 4-3	SAG	3.45	0.00	3.45	0.80	19.40	15.52	3.45	0.00	100.00%	...	...	...
C.I. 3-3(L)	SAG	1.99	0.00	1.99	0.80	19.40	15.52	1.99	0.00	100.00%	0.17	8.59	...
C.I. 3-3(R)	SAG	1.80	0.00	1.80	0.80	19.40	15.52	1.80	0.00	100.00%	0.16	7.77	...
C.I. 3-3(B)	SAG	0.68	0.00	0.68	0.80	19.40	15.52	0.68	0.00	100.00%	...	...	...
C.I. 3-3	SAG	4.46	0.00	4.46	0.80	19.40	15.52	4.46	0.00	100.00%	...	...	...
C.I. 2-4	GRADE	2.44	0.00	2.44	1.00	1.93	1.93	1.93	0.51	79.16%	0.17	8.26	...
C.I. 2-5	GRADE	1.50	0.00	1.50	1.00	1.30	1.30	1.30	0.20	86.81%	0.14	6.88	...
C.I. 1-3	GRADE	1.88	0.20	2.07	1.00	1.69	1.69	1.69	0.39	81.41%	0.15	7.69	...
C.I. 1-4	GRADE	1.76	0.51	2.27	1.00	1.81	1.81	1.81	0.46	79.80%	0.16	7.96	...
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. 5-3	0.35	0.51	5.00	7.35	1.00	1.31
C.I. 5-4	0.35	0.51	5.00	7.35	1.00	1.31
C.I. 6-1	0.36	0.51	5.00	7.35	1.00	1.35
C.I. 6-2	0.35	0.51	5.00	7.35	1.00	1.31
C.I. 7-4(L)	0.20	0.51	5.00	7.35	1.00	0.75
C.I. 7-4(R)	0.60	0.51	5.00	7.35	1.00	2.25
C.I. 7-4(B)	0.19	0.51	5.00	7.35	1.00	0.71
C.I. 7-4	0.99	0.51	5.00	7.35	1.00	3.71
C.I. 7-5(L)	0.60	0.51	5.00	7.35	1.00	2.25
C.I. 7-5(R)	0.43	0.51	5.00	7.35	1.00	1.61
C.I. 7-5(B)	0.50	0.51	5.00	7.35	1.00	1.88
C.I. 7-5	1.53	0.51	5.00	7.35	1.00	5.74
C.I. 4-3(L)	0.61	0.51	5.00	7.35	1.00	2.29
C.I. 4-3(R)	0.14	0.51	5.00	7.35	1.00	0.53
C.I. 4-3(B)	0.17	0.51	5.00	7.35	1.00	0.64
C.I. 4-3	0.92	0.51	5.00	7.35	1.00	3.45
C.I. 3-3(L)	0.53	0.51	5.00	7.35	1.00	1.99
C.I. 3-3(R)	0.48	0.51	5.00	7.35	1.00	1.80
C.I. 3-3(B)	0.18	0.51	5.00	7.35	1.00	0.68
C.I. 3-3	1.19	0.51	5.00	7.35	1.00	4.46
C.I. 2-4	0.65	0.51	5.00	7.35	1.00	2.44
C.I. 2-5	0.40	0.51	5.00	7.35	1.00	1.50
C.I. 1-3	0.50	0.51	5.00	7.35	1.00	1.88
C.I. 1-4	0.47	0.51	5.00	7.35	1.00	1.76



REVISIONS	
NO. REV.	DESCRIPTION
2	REVISED PER CONTRACTOR COMMENT

10 YEAR DRAINAGE TABLES STREET & STORM SEWER PLANS	WOODSIDE RIDGE SECOND PLAT	2020
		LEE'S SUMMIT, MO

drawn by: _____ C.S.M
checked by: _____ S.M.S
designed by: _____ C.S.M
QA/QC by: _____ J.E.S
project no.: C18-1140
date: 2020.07.10

NOT ASBUILT

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. 5-2	Outfall	253.96	933.89	930.00	1.53	18	0.012	9.89	5.60	14.08	1.50	937.59
C.I. 5-3	M.H. 5-2	188.19	964.02	934.29	15.80	15	0.012	9.89	8.15	27.80	1.25	965.20 j
C.I. 6-1	C.I. 5-3	299.05	971.17	964.62	2.19	15	0.012	4.67	6.65	10.35	0.59	972.05
C.I. 6-2	C.I. 6-1	34.93	972.17	971.37	2.29	15	0.012	2.30	3.65	10.59	0.68	972.78 j
C.I. 5-4	C.I. 5-3	34.40	965.30	964.62	1.98	15	0.012	2.60	4.36	9.84	0.58	965.95
M.H. 7-2	Outfall	42.64	925.43	925.00	1.01	24	0.012	18.97	7.91	24.61	1.32	927.00
M.H. 7-3	M.H. 7-2	178.96	955.95	925.75	16.88	24	0.012	18.97	8.21	100.66	1.25	957.52
C.I. 7-4	M.H. 7-3	68.71	957.92	956.55	1.99	24	0.012	18.97	9.23	34.60	1.06	959.49
C.I. 7-5	C.I. 7-4	34.00	959.20	958.52	2.00	18	0.012	11.25	8.18	16.09	0.97	960.48
M.H. 2-2	Outfall	33.74	922.67	922.00	1.99	18	0.012	6.91	3.91	16.03	1.50	928.66
M.H. 2-3	M.H. 2-2	48.32	931.95	925.78	12.77	15	0.012	6.91	5.95	25.00	1.25	933.00 j
C.I. 2-4	M.H. 2-3	187.22	952.46	932.55	10.63	15	0.012	6.91	11.27	22.81	0.47	953.51
C.I. 2-5	C.I. 2-4	34.74	954.94	953.96	2.82	15	0.012	2.63	5.90	11.75	0.40	955.59
M.H. 4-2	Outfall	91.51	939.15	930.00	10.00	15	0.012	6.05	5.36	22.12	1.25	940.14 j
C.I. 4-3	M.H. 4-2	145.82	964.74	948.91	10.86	15	0.012	6.05	10.80	23.05	0.44	965.73
M.H. 1-2	Outfall	55.95	921.68	920.00	3.00	15	0.012	8.40	6.85	12.12	1.25	927.29
C.I. 1-3	M.H. 1-2	156.54	946.25	935.08	7.14	15	0.012	8.40	11.00	18.69	0.59	947.38
C.I. 1-4	C.I. 1-3	34.01	947.53	946.85	2.00	15	0.012	4.52	6.44	9.89	0.59	948.39
M.H. 3-2	Outfall	73.02	923.46	922.00	2.00	18	0.012	7.83	4.43	16.09	1.50	928.89
C.I. 3-3	M.H. 3-2	188.00	960.16	942.02	9.65	18	0.012	7.83	10.90	35.34	0.48	961.24

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. 5-3	GRADE	2.30	0.31	2.62	1.00	1.73	1.73	1.73	0.89	65.92%	0.15	7.38	...
C.I. 5-4	GRADE	2.30	0.30	2.60	1.00	1.72	1.72	1.72	0.88	66.09%	0.15	7.36	...
C.I. 6-1	GRADE	2.37	0.00	2.37	1.00	2.05	2.05	2.05	0.31	86.71%	0.18	9.21	...
C.I. 6-2	GRADE	2.30	0.00	2.30	1.00	2.01	2.01	2.01	0.30	87.07%	0.18	9.12	...
C.I. 7-4(L)	SAG	1.32	1.21	2.52	0.80	19.40	15.52	2.52	0.00	100.00%	0.18	9.12	...
C.I. 7-4(R)	SAG	3.95	0.00	3.95	0.80	19.40	15.52	3.95	0.00	100.00%	0.17	8.61	...
C.I. 7-4(B)	SAG	1.25	0.00	1.25	0.80	19.40	15.52	1.25	0.00	100.00%	...	...	...
C.I. 7-4	SAG	6.51	1.21	7.72	0.80	19.40	15.52	7.72	0.00	100.00%	...	...	...
C.I. 7-5(L)	SAG	3.95	1.18	5.13	0.80	19.40	15.52	5.13	0.00	100.00%	0.19	9.49	...
C.I. 7-5(R)	SAG	2.83	0.00	2.83	0.80	19.40	15.52	2.83	0.00	100.00%	0.19	9.52	...
C.I. 7-5(B)	SAG	3.29	0.00	3.29	0.80	19.40	15.52	3.29	0.00	100.00%	...	...	...
C.I. 7-5	SAG	10.07	1.18	11.25	0.80	19.40	15.52	11.25	0.00	100.00%	...	...	...
C.I. 4-3(L)	SAG	4.01	0.00	4.01	0.80	19.40	15.52	4.01	0.00	100.00%	0.18	8.80	...
C.I. 4-3(R)	SAG	0.92	0.00	0.92	0.80	19.40	15.52	0.92	0.00	100.00%	0.12	6.21	...
C.I. 4-3(B)	SAG	1.12	0.00	1.12	0.80	19.40	15.52	1.12	0.00	100.00%	...	...	...
C.I. 4-3	SAG	6.05	0.00	6.05	0.80	19.40	15.52	6.05	0.00	100.00%	...	...	...
C.I. 3-3(L)	SAG	3.49	0.00	3.49	0.80	19.40	15.52	3.49	0.00	100.00%	0.21	10.61	...
C.I. 3-3(R)	SAG	3.16	0.00	3.16	0.80	19.40	15.52	3.16	0.00	100.00%	0.19	9.60	...
C.I. 3-3(B)	SAG	1.18	0.00	1.18	0.80	19.40	15.52	1.18	0.00	100.00%	...	...	...
C.I. 3-3	SAG	7.83	0.00	7.83	0.80	19.40	15.52	7.83	0.00	100.00%	...	...	...
C.I. 2-4	GRADE	4.28	0.00	4.28	1.00	2.85	2.85	2.85	1.43	66.66%	0.20	10.19	...
C.I. 2-5	GRADE	2.63	0.00	2.63	1.00	2.04	2.04	2.04	0.59	77.68%	0.17	8.50	...
C.I. 1-3	GRADE	3.29	0.59	3.88	1.00	2.65	2.65	2.65	1.23	68.23%	0.19	9.73	...
C.I. 1-4	GRADE	3.09	1.43	4.52	1.00	2.90	2.90	2.90	1.61	64.28%	0.21	10.31	...

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. 5-3	0.35	0.51	5.00	10.32	1.25	2.30
C.I. 5-4	0.35	0.51	5.00	10.32	1.25	2.30
C.I. 6-1	0.36	0.51	5.00	10.32	1.25	2.37
C.I. 6-2	0.35	0.51	5.00	10.32	1.25	2.30
C.I. 7-4(L)	0.20	0.51	5.00	10.32	1.25	1.32
C.I. 7-4(R)	0.60	0.51	5.00	10.32	1.25	3.95
C.I. 7-4(B)	0.19	0.51	5.00	10.32	1.25	1.25
C.I. 7-4	0.99	0.51	5.00	10.32	1.25	6.51
C.I. 7-5(L)	0.60	0.51	5.00	10.32	1.25	3.95
C.I. 7-5(R)	0.43	0.51	5.00	10.32	1.25	2.83
C.I. 7-5(B)	0.50	0.51	5.00	10.32	1.25	3.29
C.I. 7-5	1.53	0.51	5.00	10.32	1.25	10.07
C.I. 4-3(L)	0.61	0.51	5.00	10.32	1.25	4.01
C.I. 4-3(R)	0.14	0.51	5.00	10.32	1.25	0.92
C.I. 4-3(B)	0.17	0.51	5.00	10.32	1.25	1.12
C.I. 4-3	0.92	0.51	5.00	10.32	1.25	6.05
C.I. 3-3(L)	0.53	0.51	5.00	10.32	1.25	3.49
C.I. 3-3(R)	0.48	0.51	5.00	10.32	1.25	3.16
C.I. 3-3(B)	0.18	0.51	5.00	10.32	1.25	1.18
C.I. 3-3	1.19	0.51	5.00	10.32	1.25	7.83
C.I. 2-4	0.65	0.51	5.00	10.32	1.25	4.28
C.I. 2-5	0.40	0.51	5.00	10.32	1.25	2.63
C.I. 1-3	0.50	0.51	5.00	10.32	1.25	3.29
C.I. 1-4	0.47	0.51	5.00	10.32	1.25	3.09

100 YEAR DRAINAGE TABLES
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

BY

NO. REV. 2

DATE 3/16/2021

REVISIONS DESCRIPTION

REVISED PER CONTRACTOR COMMENT

REVISIONS

drawn by: _____ C.S.M
checked by: _____ S.M.S
designed by: _____ C.S.M
QA/QC by: _____ J.E.S
project no.: C18-1140
date: 2020.07.10

SHEET C127

olsson

NO. Certificate of Authority: 001692
303 E. BIRLING ST. SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
www.olsson.com

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
12/20/2022

NOT ASBUILT



Woodyside Ridge Second Plat			
Minimum Building Opening Elevation			
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan Required
149	945.25	938.92	Y
150	952.25	945.25	Y
151	950.78	952.25	Y
152	950.23	950.78	Y
153	950.56	950.23	Y
154	953.80	950.56	Y
155	970.20	979.35	Y
156	957.42	970.20	Y
157	953.53	957.42	Y
158	937.69	953.53	Y
166	948.97	945.09	Y
167	952.18	948.97	Y
168	959.64	952.18	Y
169	961.17	959.64	Y
170	965.96	961.17	Y
184	947.98	959.19	Y
185	937.74	947.98	Y
186	934.36	937.74	Y
187	936.96	934.36	Y
192	939.85	934.23	Y
193	941.51	939.85	Y
194	945.79	941.51	Y
195	947.41	945.79	Y
196	950.30	947.41	Y
197	951.37	950.30	Y
198	952.90	951.37	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.			

USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C_MDR02_C181140.dwg

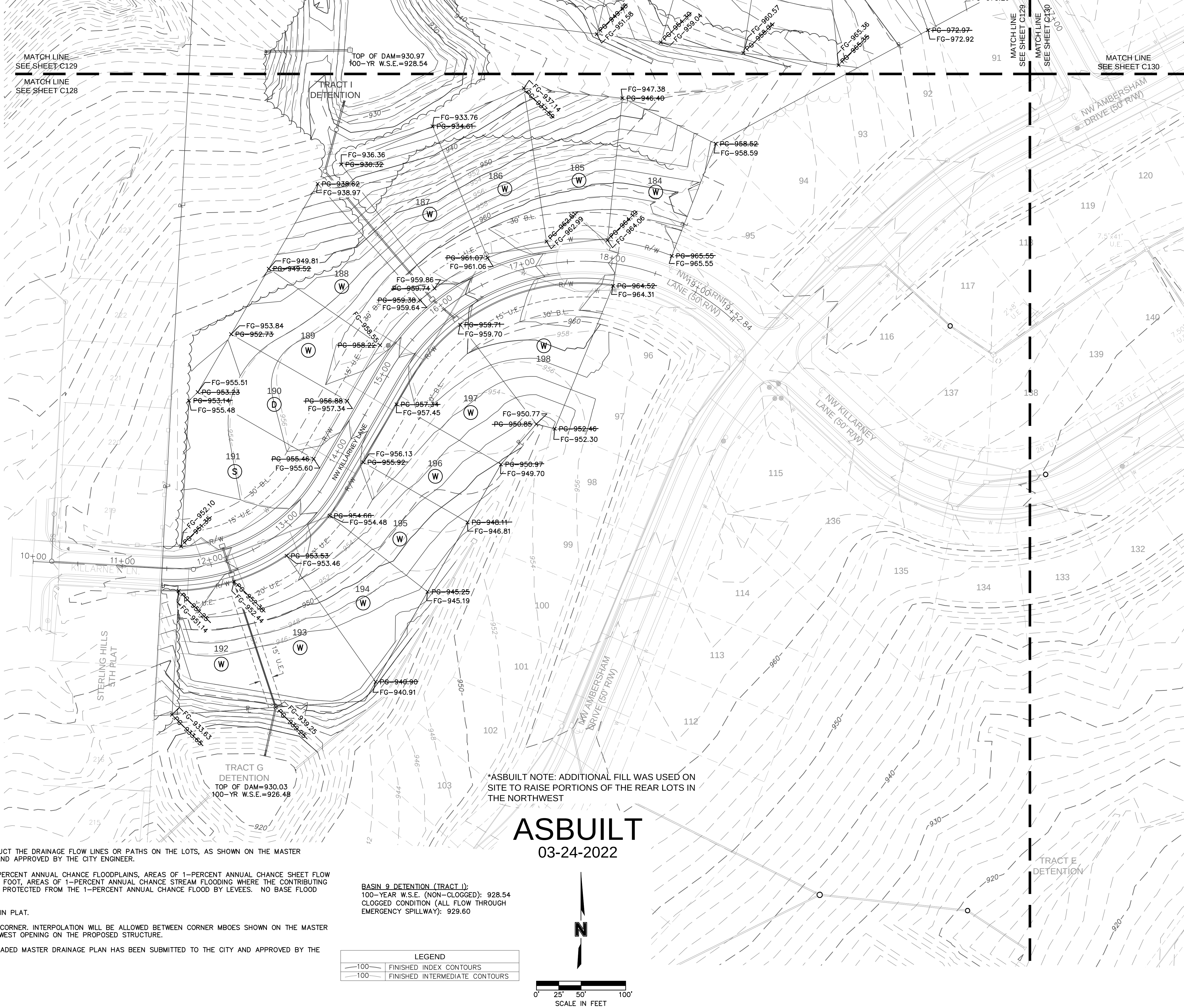
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NOTES:

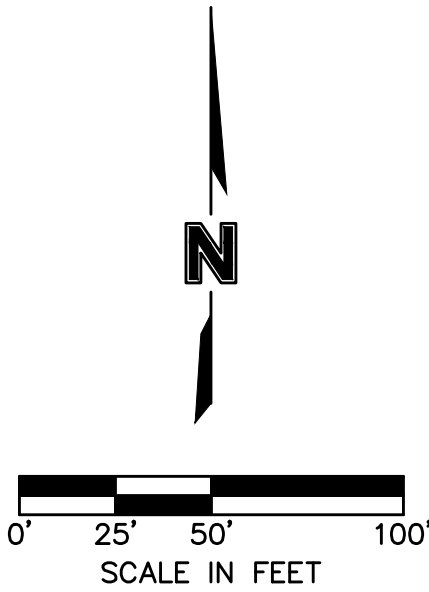
1. INDIVIDUAL LOT OWNERS SHALL NOT CHANGE OR OBSTRUCT THE DRAINAGE FLOW LINES OR PATHS ON THE LOTS, AS SHOWN ON THE MASTER DRAINAGE PLAN, UNLESS SPECIFIC APPLICATION IS MADE AND APPROVED BY THE CITY ENGINEER.
2. PLAT IS LOCATED IN ZONE X, "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANCE SHEET FLOOD 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. BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.
4. MBOE ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN CORNER MBOES SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.
5. NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.

RMBOE - REAR MINIMUM BUILDING OPENING ELEVATION
FMBOE - FRONT MINIMUM BUILDING OPENING ELEVATION

LOT TYPES:
S - STANDARD
D - DAYLIGHT
W - WALKOUT



LEGEND	
	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS

[illegible]



KEY MAP

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

2. PLAT IS LOCATED 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. BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.

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

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RMBOE - REAR MINIMUM BUILDING OPENING ELEVATION
FMBOE - FRONT MINIMUM BUILDING OPENING ELEVATION

LOT TYPES:
S - STANDARD
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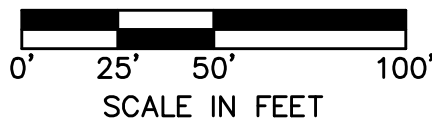
BASIN C1 DETENTION (TRACT I):
100-YEAR W.S.E. (NON-CLOGGED): 928.54
CLOGGED CONDITION (ALL FLOW THROUGH EMERGENCY SPILLWAY): 929.60

BASIN C1 DETENTION (TRACT J):
100-YEAR W.S.E. (NON-CLOGGED): 935.67
CLOGGED CONDITION (ALL FLOW THROUGH EMERGENCY SPILLWAY): 936.70

LEGEND	
	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS

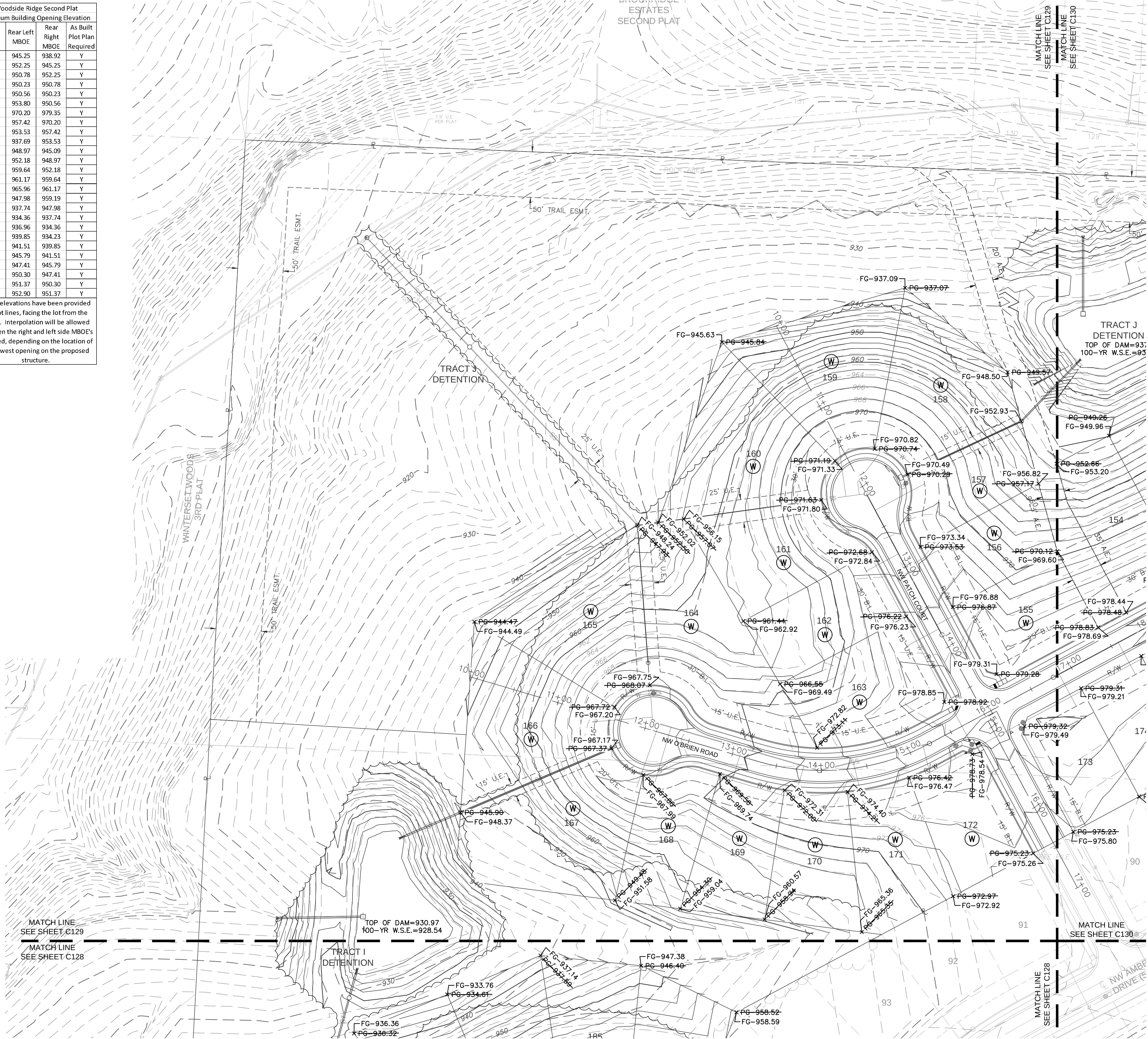
ASBUILT
03-24-2022

*ASBUILT NOTE: ADDITIONAL FILL WAS USED ON SITE TO RAISE PORTIONS OF THE REAR LOTS IN THE NORTHWEST



Woodside Ridge Second Plat Minimum Building Opening Elevation			
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan Required
149	945.25	938.92	Y
150	952.25	945.25	Y
151	950.78	952.25	Y
152	950.23	950.78	Y
153	950.56	950.23	Y
154	953.80	950.56	Y
155	970.20	979.35	Y
156	957.42	970.20	Y
157	953.53	957.42	Y
158	937.69	953.53	Y
166	948.97	945.09	Y
167	952.18	948.97	Y
168	959.64	952.18	Y
169	961.17	959.64	Y
170	965.96	961.17	Y
184	947.98	959.19	Y
185	937.74	947.98	Y
186	934.36	937.74	Y
187	936.96	934.36	Y
192	939.85	934.23	Y
193	941.51	939.85	Y
194	945.79	941.51	Y
195	947.41	945.79	Y
196	950.30	947.41	Y
197	951.37	950.30	Y
198	952.90	951.37	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.

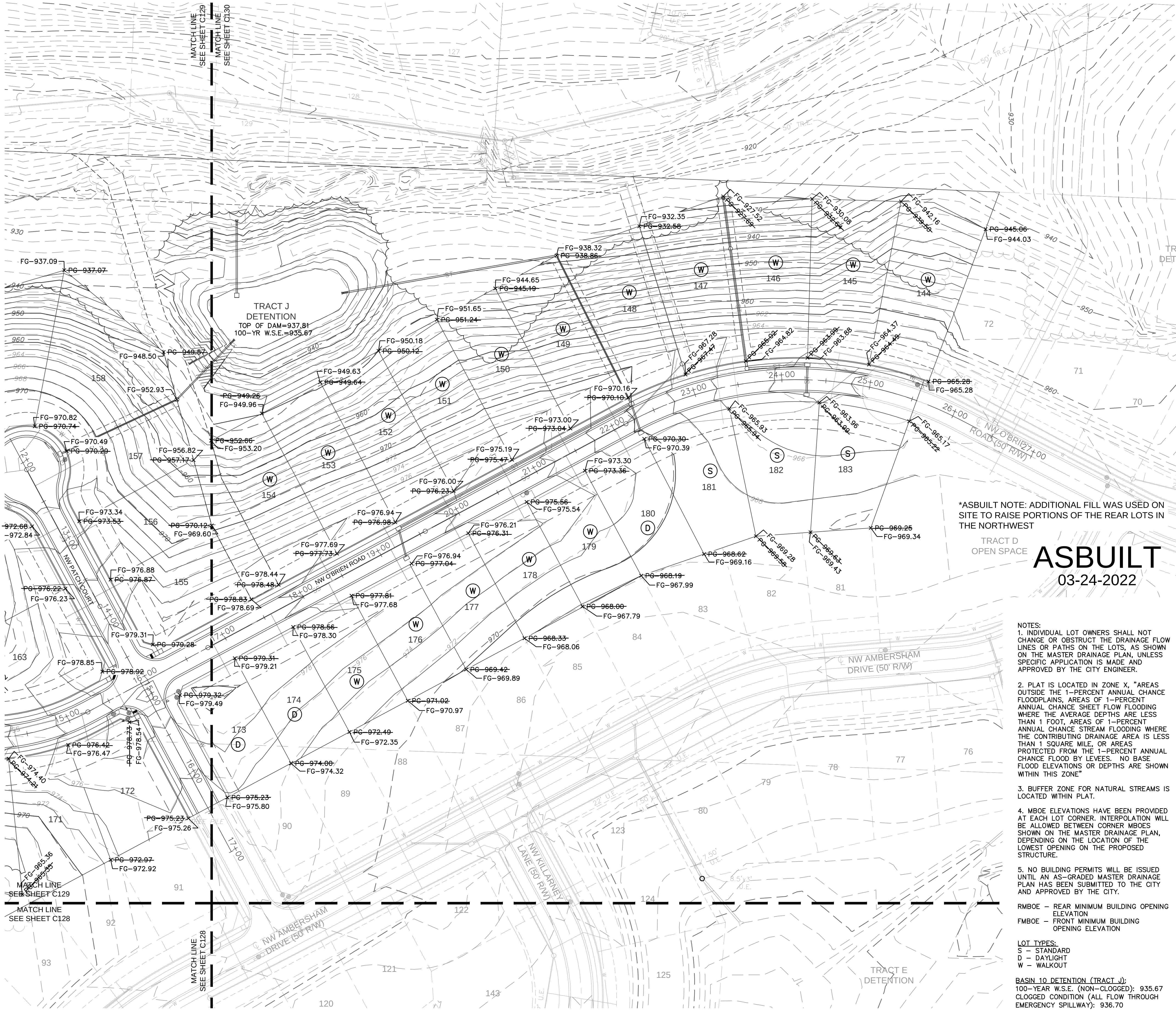
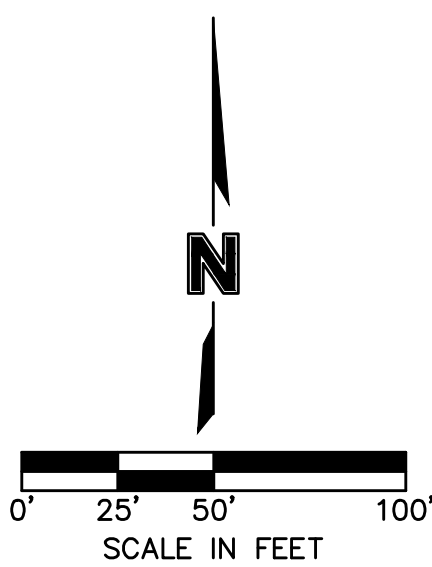
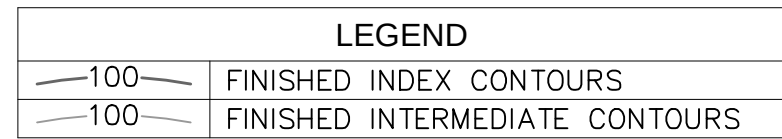


BY		REVISIONS DESCRIPTION	
NO.	REV.	DATE	REVISIONS
1		7/10/2020	REVISED PER CITY COMMENTS

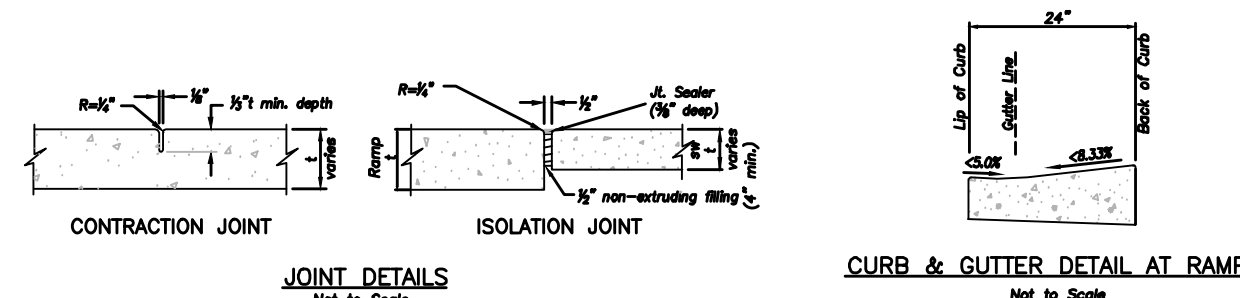
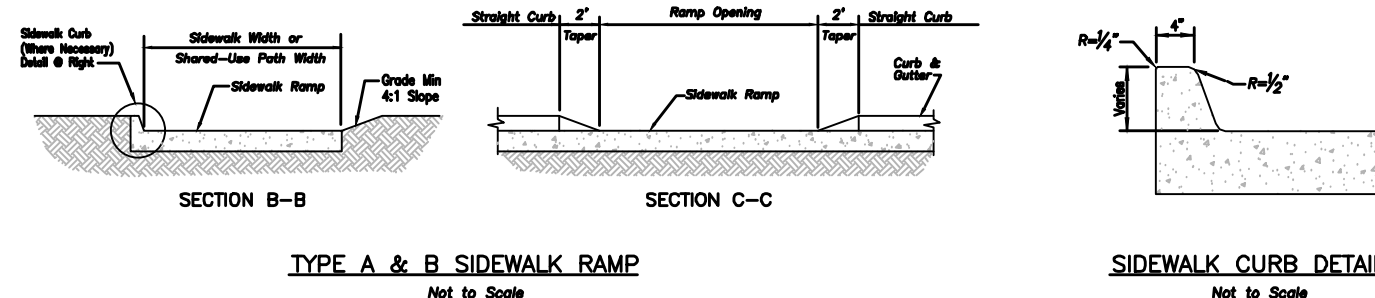
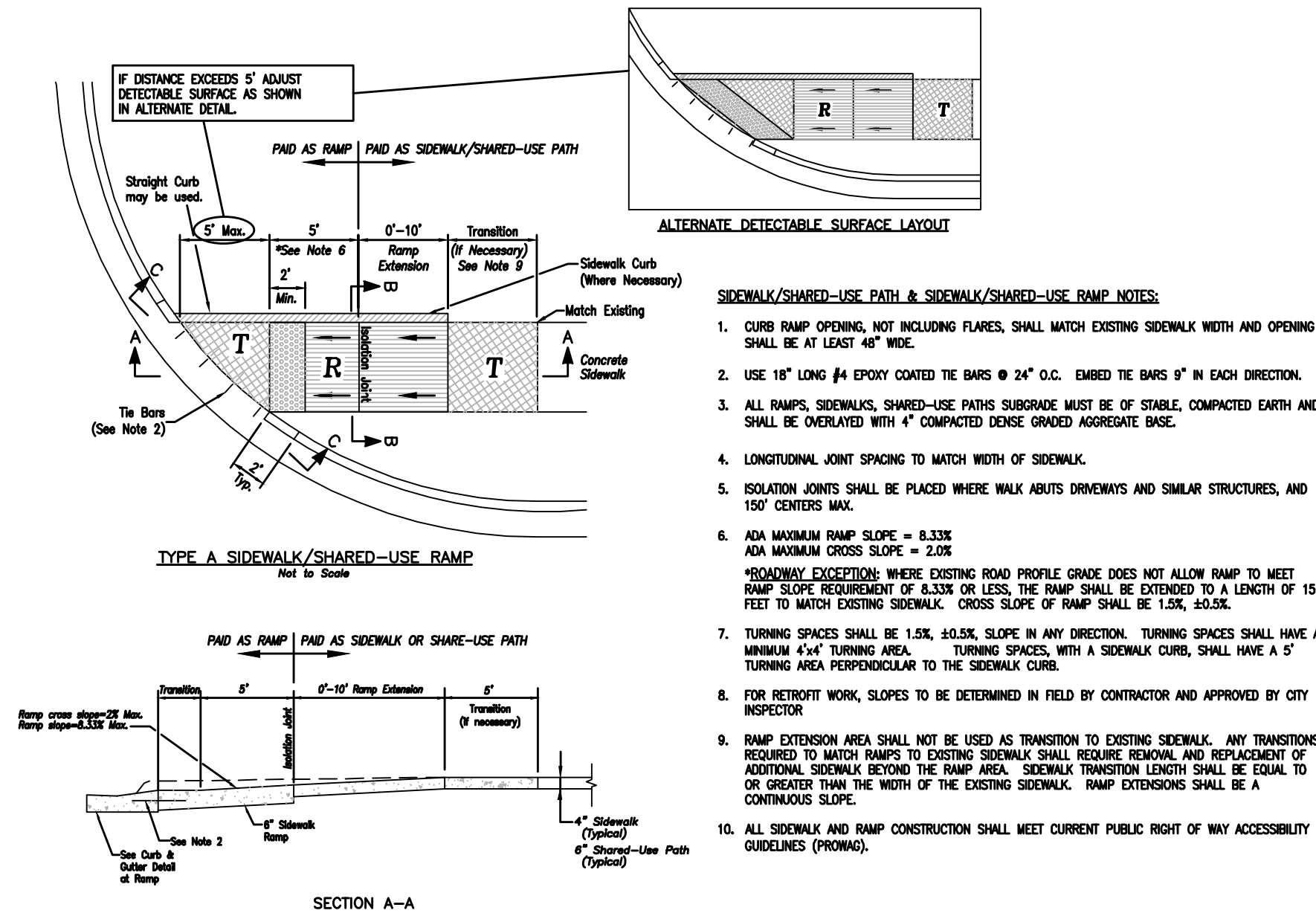
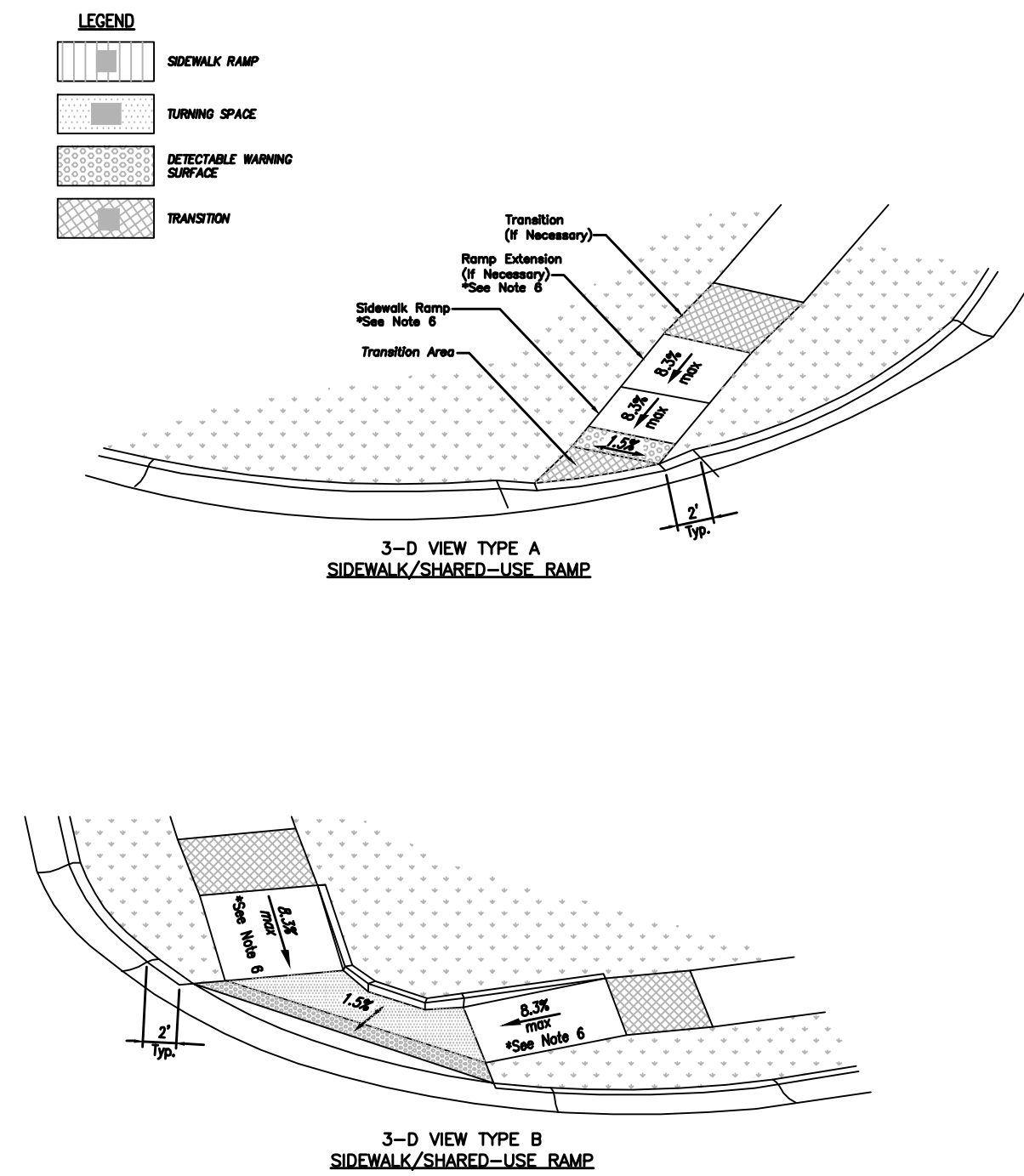
MASTER DRAINAGE PLAN STREET & STORM SEWER PLANS		WOODSIDE RIDGE SECOND PLAT	
LEE'S SUMMIT, MO		2020	
drawn by: _____ C.S.M. checked by: _____ S.M.S. designed by: _____ C.S.M. QA/QC by: _____ J.E.S. project no.: C18-1140 date: 2020.07.10		SHEET C129	



Woodside Ridge Second Plat			
Minimum Building		Opening Elevation	
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan Required
149	945.25	938.92	Y
150	952.25	945.25	Y
151	950.78	952.25	Y
152	950.23	950.78	Y
153	950.56	950.23	Y
154	953.80	950.56	Y
155	970.20	979.35	Y
156	957.42	970.20	Y
157	953.53	957.42	Y
158	937.69	953.53	Y
166	948.97	945.09	Y
167	952.18	948.97	Y
168	959.64	952.18	Y
169	961.17	959.64	Y
170	965.96	961.17	Y
184	947.98	959.19	Y
185	937.74	947.98	Y
186	934.36	937.74	Y
187	936.96	934.36	Y
192	939.85	934.23	Y
193	941.51	939.85	Y
194	945.79	941.51	Y
195	947.41	945.79	Y
196	950.30	947.41	Y
197	951.37	950.30	Y
198	952.90	951.37	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.			



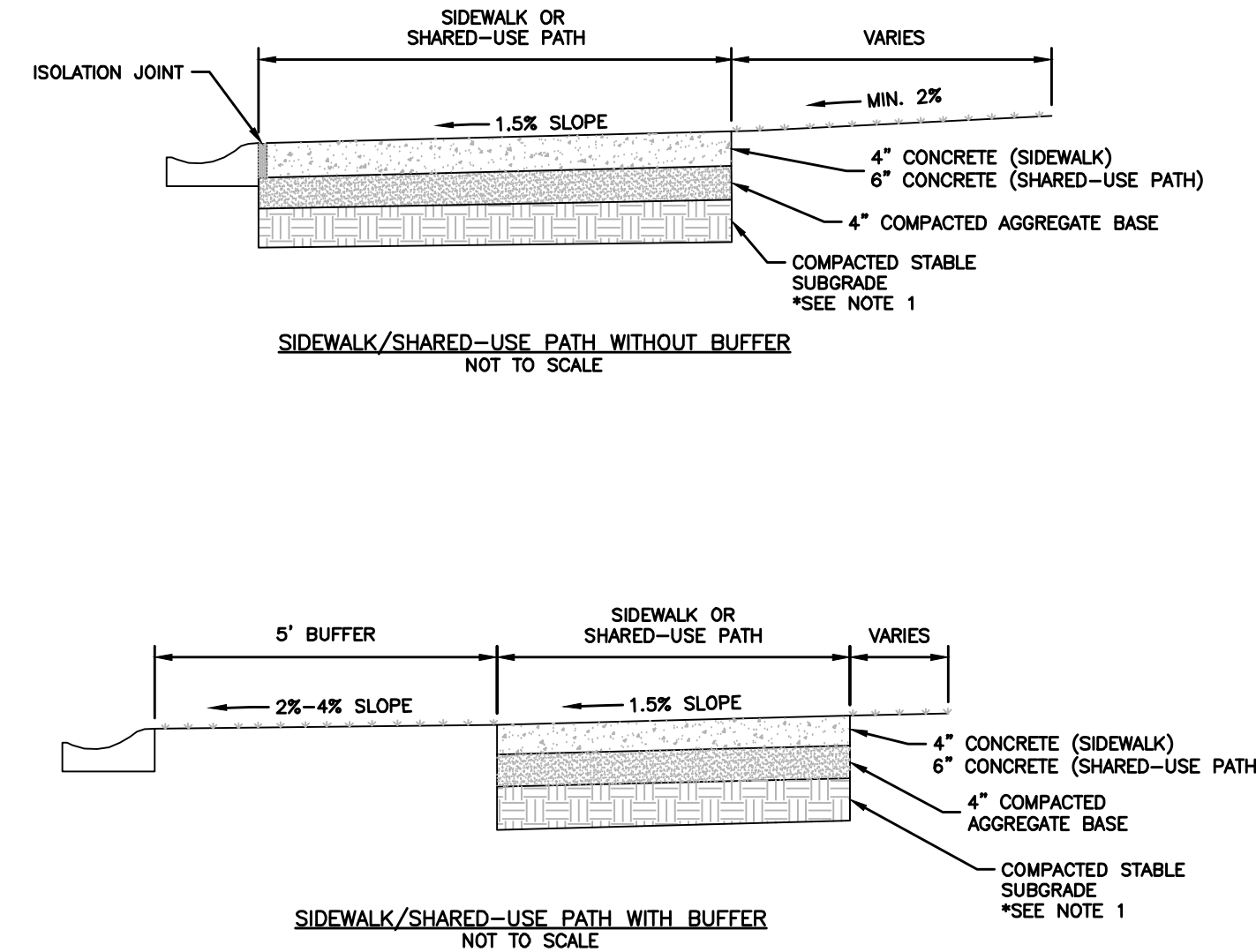
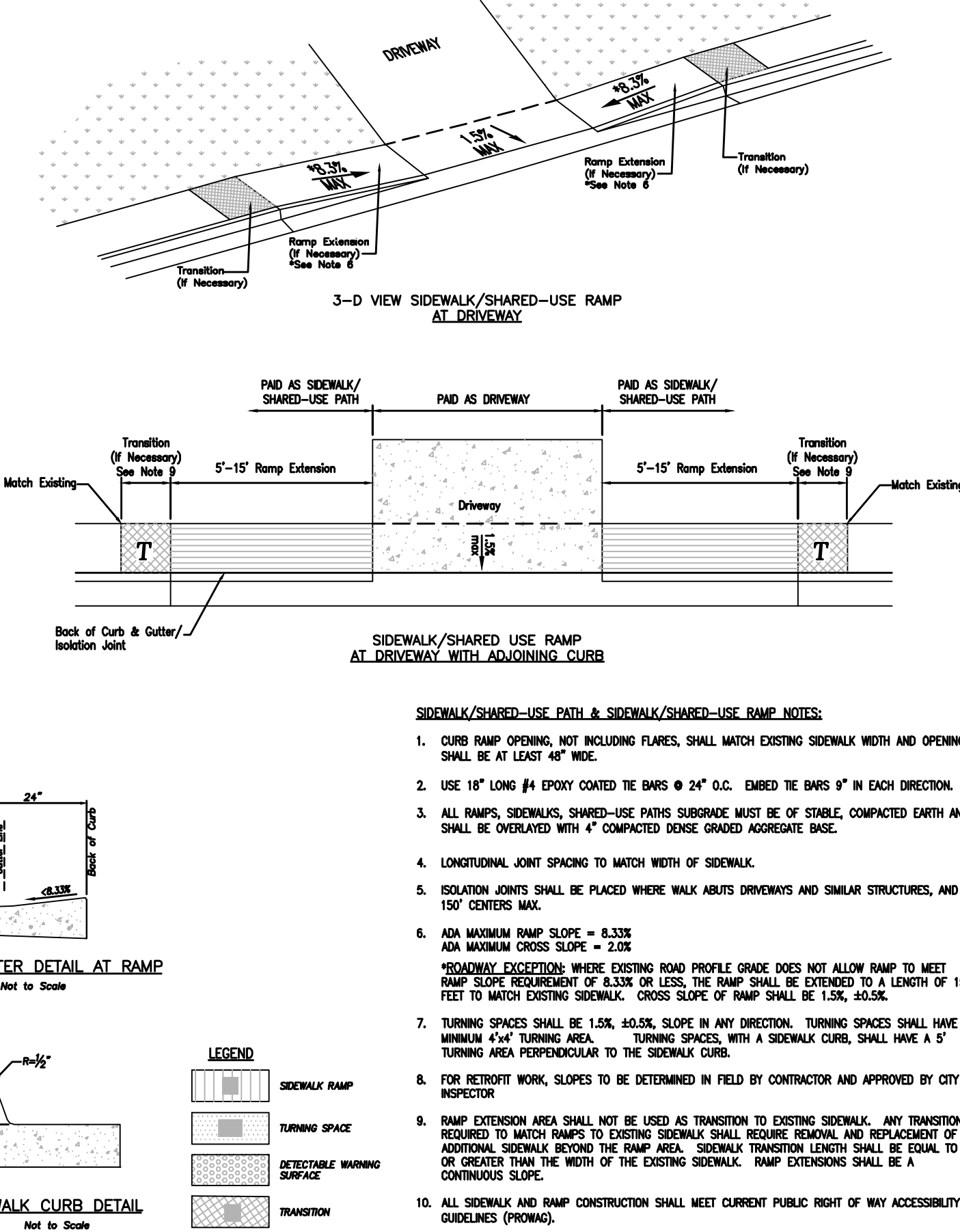
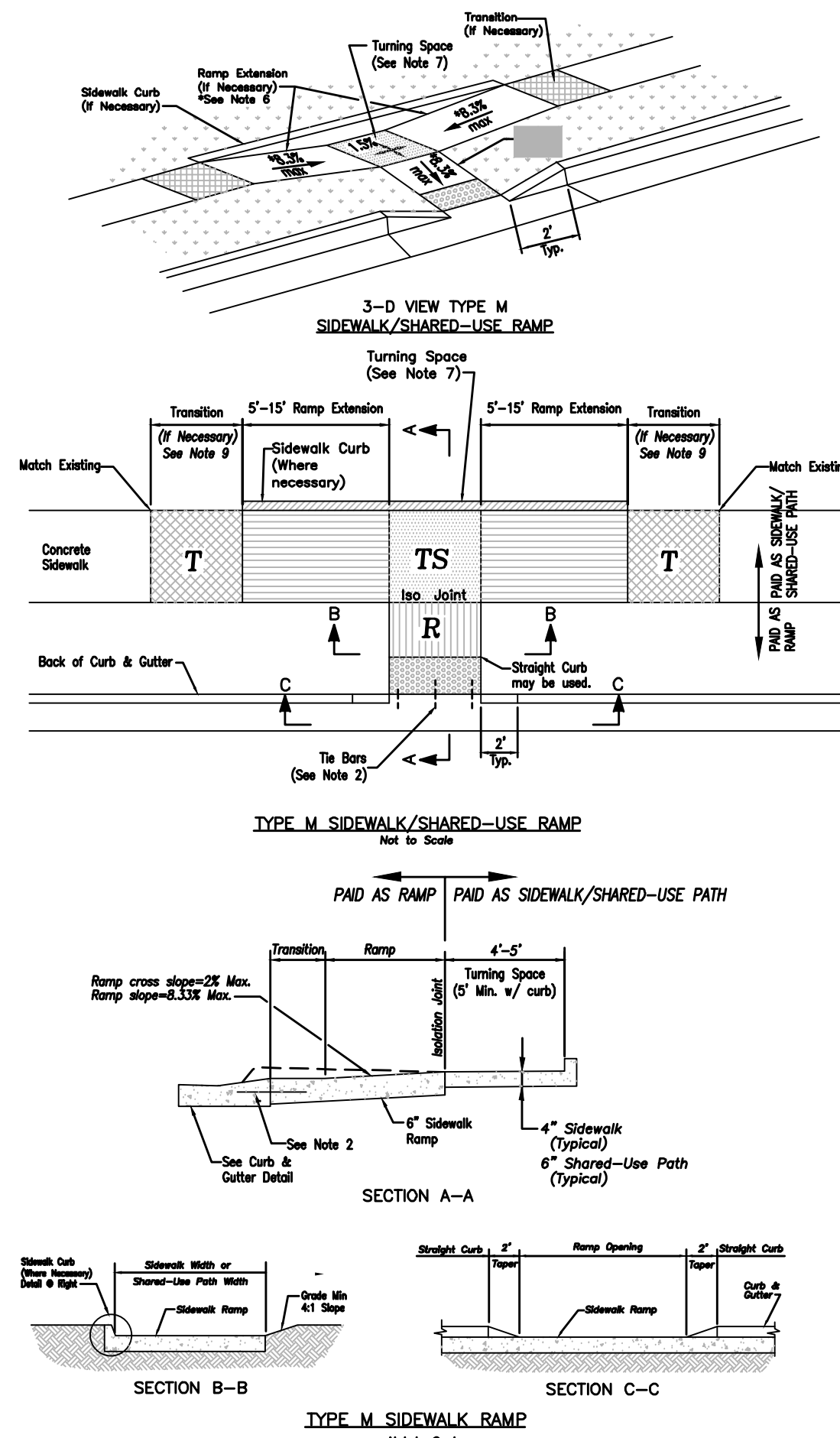
01 N.T.S.
ADA RAMP RETROFIT DETAIL (A)



REFER TO SHEETS C110 AND C111
FOR RAMP SLOPE AND DIMENSION.
DETAILS ARE GUIDELINES AS TO HOW
RAMPS SHALL BE CONSTRUCTED.

NOT ASBUILT

02 N.T.S.
ADA RAMP RETROFIT DETAIL (B)



- GENERAL NOTES:
1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
 3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS AND SHARED-USE PATHS OR AS APPROVED BY THE CITY INSPECTOR.
 4. ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
 5. AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
 6. SHARED-USE PATH WIDTH SHALL BE 10 FT. WIDE.
 7. SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
 8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

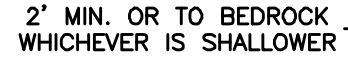
03 N.T.S.
SIDEWALK/SHARED-USE PATH DETAIL



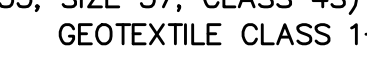


3. MINIMUM AND MAXIMUM WIDTHS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATION AS APPROVED ON ENGINEERING PLANS.

01



0.5



1. 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 on the street profile.
2. All Underdrain Pipes shall be installed at a minimum slope of 1%.
3. Underdrain Pipe shall be installed with the perforations placed down.
4. Blanket Underdrain Aggregate, Pipe Underdrain Aggregate, Pipe Underdrain, Underdrain, Underdrain and Outlet Pipe shall conform to City of Lee's Summit Specifications.
5. Overlap geotextile at top of trench a minimum of 12".

0

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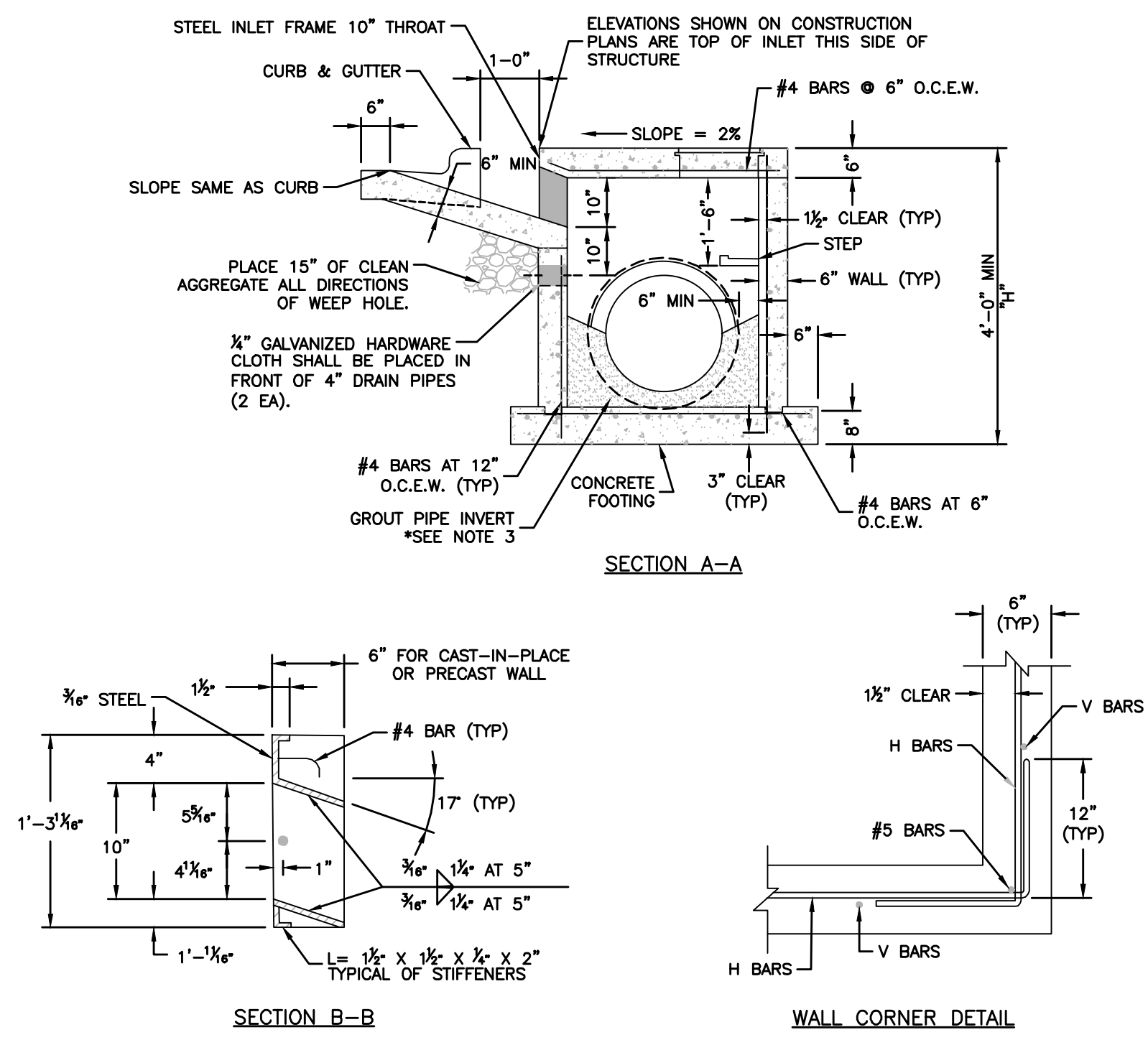
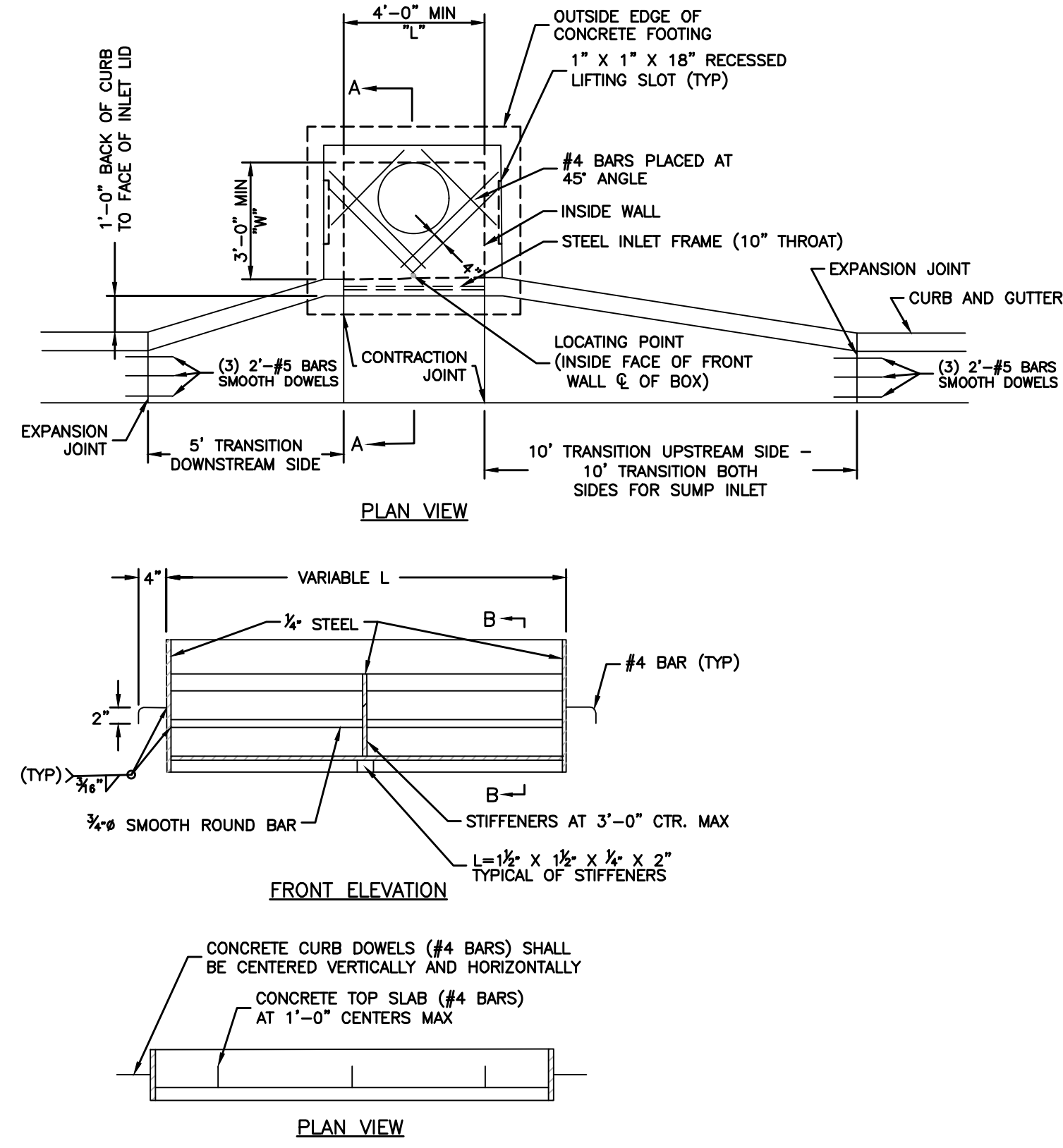
LEE'S SUMMIT, MO

drawn by: C.S.M
checked by: S.M.S
designed by: C.S.M
QA/QC by: J.E.S
project no.: C18-1140
date: 2020.07.10

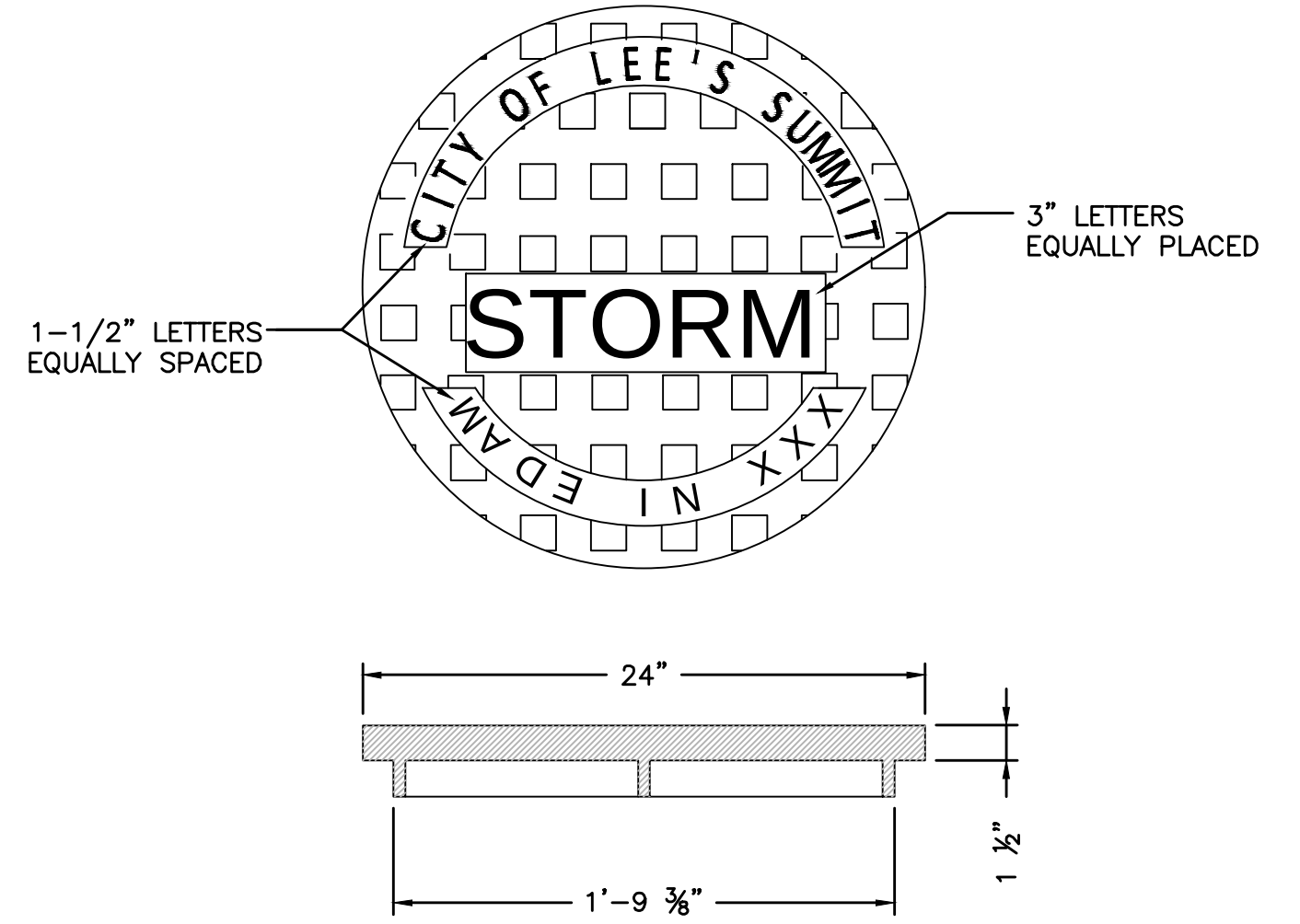
SHEET
C134

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
12/20/2022
PROFESSIONAL ENGINEER

NOT ASBUILT

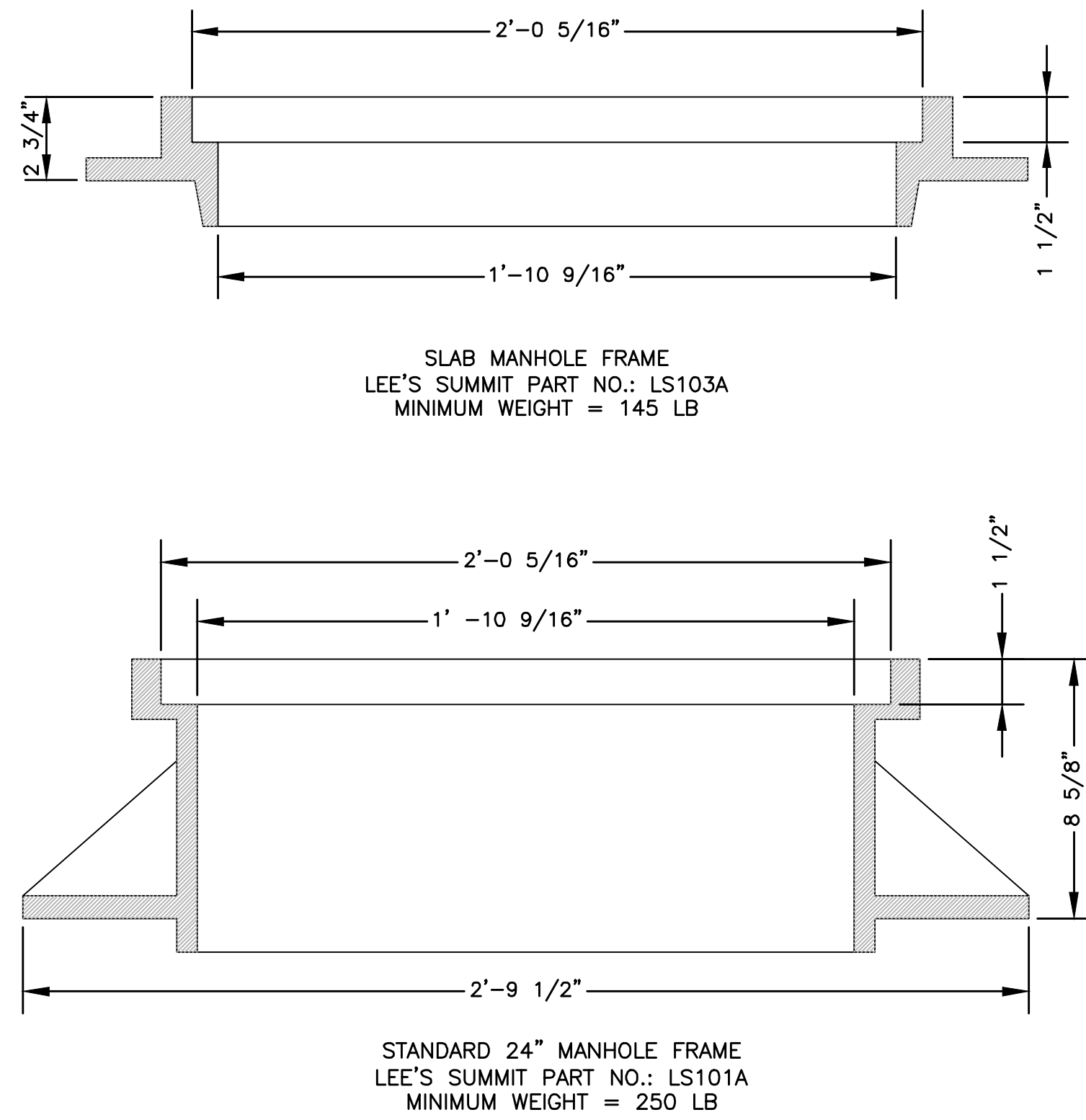


- GENERAL NOTES:**
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION.
 2. THE SECOND DIMENSION IS THE "W" DIMENSION.
 3. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
 4. FLOOR OF INLET GROUDED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
 5. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
 6. PRECAST LIDS SHALL BE SPACED AT 1'-4" O.C. TO MATCH BLANK WALL IF POSSIBLE.
 7. BEVEL ALL EXPOSED EDGES WITH 3/4" CHAMFER OR 1/8" TOOLED EDGE.
 8. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
 9. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
 10. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
 11. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.



STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO
THE STORMWATER APPROVED PRODUCT LIST.



*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.

[illegible]

STORM DETAIL SHEET
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

MMIT, MO

drawn by: C.S.M
checked by: S.M.S
designed by: C.S.M
QA/QC by: J.E.S
project no.: C18-1140
date: 2020.07.10

SHEET
C135

olsson

REVISIONS

2020

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