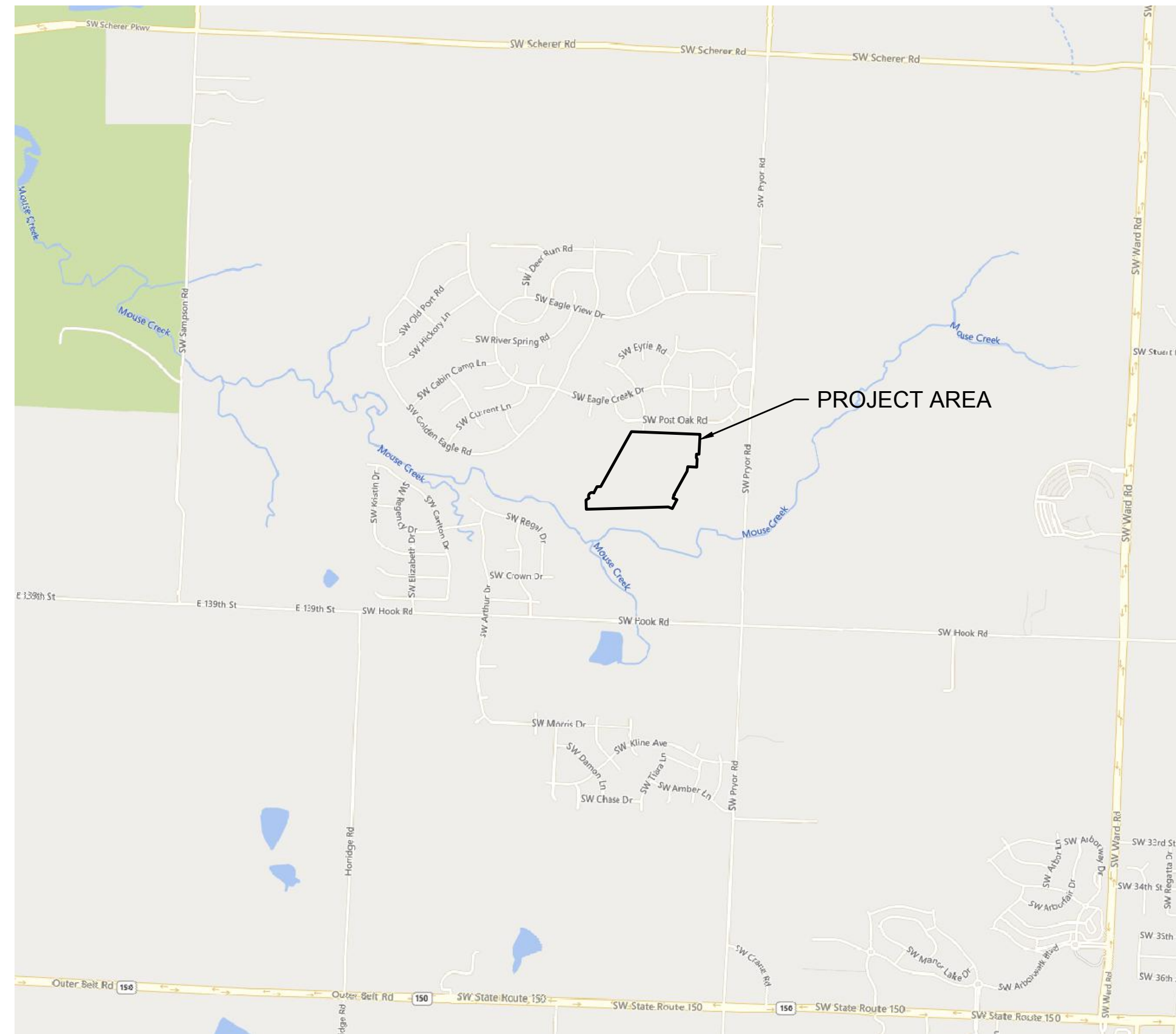
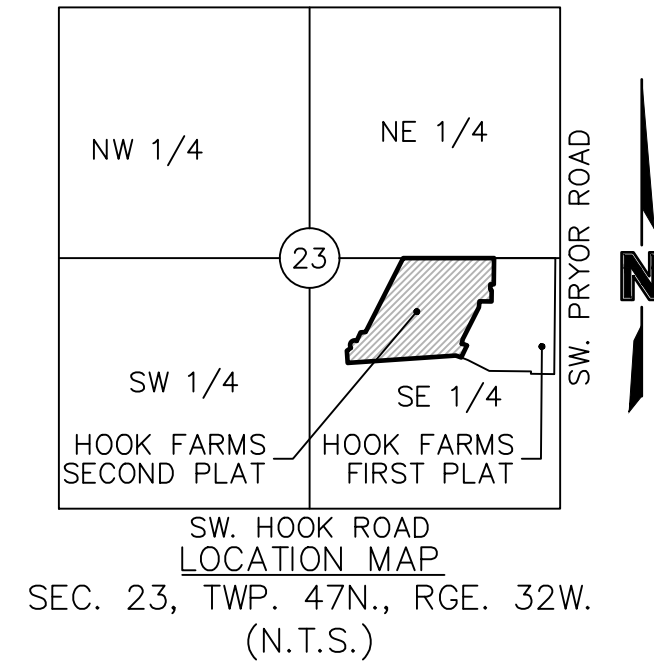


# HOOK FARMS SECOND PLAT STREET & STORM SEWER PLANS

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



### PROPERTY DESCRIPTION

A TRACT OF LAND IN THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 47 NORTH, RANGE 32 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI BEING BOUNDED AND DESCRIBED BY OR UNDER THE DIRECT SUPERVISION OF JASON S. ROUDEBUSH, P.L.S. 2002014092 AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER; THENCE NORTH 02°45'34" EAST, ON THE EAST LINE OF SAID SOUTHEAST QUARTER, 2,635.08 FEET TO THE NORTHEAST CORNER OF SAID SOUTHEAST QUARTER; THENCE NORTH 87°45'24" WEST, ON THE NORTH LINE OF SAID SOUTHEAST QUARTER, 50.00 FEET TO THE SOUTHEAST CORNER OF LOT 3, EAGLE CREEK-FIRST PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 110409 IN BOOK 165 AT PAGE 01 IN JACKSON COUNTY RECORDER OF DEEDS OFFICE, ALSO BEING THE NORTHWEST CORNER OF PROPOSED HOOK FARMS FIRST PLAT; THENCE CONTINUING NORTH 87°45'24" WEST ON SAID NORTH LINE, ALSO BEING THE PROPOSED NORTH LINE OF SAID PROPOSED HOOK FARMS FIRST PLAT, ALSO BEING THE SOUTH LINE OF SAID EAGLE CREEK-FIRST PLAT, 643.83 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE LEAVING SAID NORTH AND SOUTH LINES, SOUTH 02°59'10" WEST, ALONG THE PROPOSED WESTERLY LINE OF PROPOSED HOOK FARMS FIRST PLAT, 277.38 FEET; THENCE NORTH 87°00'50" WEST, ALONG SAID PROPOSED WESTERLY LINE, 36.00 FEET; THENCE SOUTH 02°59'10" WEST, ALONG SAID PROPOSED WESTERLY LINE, 50.00 FEET; THENCE SOUTH 42°00'50" EAST, ALONG SAID PROPOSED WESTERLY LINE, 19.80 FEET; THENCE SOUTH 02°59'10" WEST, ALONG SAID PROPOSED WESTERLY LINE, 116.00 FEET; THENCE NORTH 87°00'50" WEST, ALONG SAID PROPOSED WESTERLY LINE, 126.12 FEET; THENCE SOUTH 07°19'52" WEST, ALONG SAID PROPOSED WESTERLY LINE, 64.17 FEET; THENCE SOUTH 29°10'47" WEST, ALONG SAID PROPOSED WESTERLY LINE, 375.17 FEET; THENCE SOUTH 15°20'56" WEST, ALONG SAID PROPOSED WESTERLY LINE, 50.00 FEET; THENCE ALONG SAID PROPOSED WESTERLY LINE, EASTERLY ALONG A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF SOUTH 74°39'04" EAST WITH A RADIUS OF 275.00 FEET, A CENTRAL ANGLE OF 11°57'16" AND AN ARC DISTANCE OF 57.38 FEET; THENCE SOUTH 27°18'12" WEST, ALONG SAID PROPOSED WESTERLY LINE, 138.17 FEET; THENCE LEAVING SAID PROPOSED WESTERLY LINE, NORTH 67°11'53" WEST, 61.05 FEET; THENCE SOUTH 88°21'16" WEST, 1,139.83 FEET; THENCE NORTH 01°38'44" WEST, 128.09 FEET; THENCE NORTH 57°02'58" EAST, 49.90 FEET; THENCE NORTHEASTERLY ALONG A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF NORTH 32°57'02" WEST WITH A RADIUS OF 50.00 FEET, A CENTRAL ANGLE OF 150°22'53" AND AN ARC DISTANCE OF 131.23 FEET; THENCE NORTH 27°25'51" EAST, 98.75 FEET; THENCE NORTH 88°21'16" EAST, 52.12 FEET; THENCE NORTH 29°10'47" EAST, 873.51 FEET TO A POINT ON SAID NORTH LINE OF SAID SOUTHEAST QUARTER, ALSO BEING THE SOUTH LINE OF EAGLE CREEK-SECOND PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 200100058889 IN BOOK 165 AT PAGE 09 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE SOUTH 87°45'24" EAST, ON SAID NORTH LINE AND SAID SOUTH LINE, 682.19 FEET TO THE SOUTHEAST CORNER OF SAID EAGLE CREEK-SECOND PLAT, ALSO BEING THE SOUTHWEST CORNER OF SAID EAGLE CREEK-FIRST PLAT; THENCE SOUTH 87°45'24" EAST ON SAID NORTH LINE, AND SAID SOUTH LINE OF EAGLE CREEK-FIRST PLAT, 273.64 FEET TO THE POINT OF BEGINNING. CONTAINING 1,157,274 SQUARE FEET OR 26.57 ACRES, MORE OR LESS.

### BENCHMARK

**JA-74**  
ELEVATION: 1058.10  
N: 978461-2779  
E: 2809447-9650  
DESCRIPTION: KC METRO ALUMINUM GRS DISK SET IN CONCRETE. THE STATION IS STAMPED JA-74, 1988, AND PROJECTS ABOUT 1 INCH

SHEET LIST	
NUMBER	TITLE
C101	TITLE SHEET
C102	GENERAL NOTES
C103	GENERAL LAYOUT
C104	TYPICAL SECTIONS
C105	GRADING PLAN (FOR REFERENCE)
C106	GRADING PLAN (FOR REFERENCE)
C107	SWALE 1 PLAN & PROFILE
C108	SWALE 2 PLAN & PROFILE
C109	SWALE 2 PLAN & PROFILE
C110	ROADWAY PLAN & PROFILE (SW HOOK FARM DRIVE)
C111	ROADWAY PLAN & PROFILE (SW HOOK FARM DRIVE)
C112	ROADWAY PLAN & PROFILE (SW HOOK FARM DRIVE)
C113	ROADWAY PLAN & PROFILE (SW WHEATFIELD COURT)
C114	ROADWAY PLAN & PROFILE (SW WHEATFIELD COURT)
C115	ROADWAY PLAN & PROFILE (SW TRACKER LANE)
C116	ROADWAY PLAN & PROFILE (SW TRACKER LANE)
C117	ROADWAY PLAN & PROFILE (SW TRACKER LANE)
C118	ROADWAY PLAN & PROFILE (SW FARMHOUSE ROAD)
C119	ROADWAY PLAN & PROFILE (SW FIREFLY LANE)
C120	ROADWAY PLAN & PROFILE (SW FIREFLY LANE)
C121	ROADWAY PLAN & PROFILE (SW BARLEY FIELD DRIVE)
C122	ROADWAY PLAN & PROFILE (SW BARLEY FIELD DRIVE)
C123	TRAFFIC CONTROL PLAN
C124	SW TRACKER LANE & SW HOOK FARM DRIVE
C125	SW FIREFLY LANE & SW HOOK FARM DRIVE
C126	SW BARLEY FIELD DRIVE & SW HOOK FARM DRIVE
C127	SW FARMHOUSE ROAD & SW TRACKER LANE
C128	SW WHEATFIELD COURT & SW TRACKER LANE
C129	SW FIREFLY LANE & SW WHEATFIELD COURT
C130	SW BARLEY FIELD DRIVE & SW WHEATFIELD COURT
C131	SW HOOK FARM DRIVE CUL-DE-SAC
C132	STORM SEWER PLAN & PROFILE (LINE 1)
C133	STORM SEWER PLAN & PROFILE (LINE 1)
C134	STORM SEWER PLAN & PROFILE (LINE 2)
C135	STORM SEWER PLAN & PROFILE (LINE 2)
C136	STORM SEWER PLAN & PROFILE (LINES 3 & 4)
C137	STORM SEWER PLAN & PROFILE (LINES 5 & 7)
C138	STORM SEWER PLAN & PROFILE (LINE 6)
C139	STORM SEWER PLAN & PROFILE (LINE 8)
C140	STORM SEWER PLAN & PROFILE (LINE 9)
C141	STORM SEWER PLAN & PROFILE (LINE 10)
C142	STORM SEWER PLAN & PROFILE (LINES 11 & 12)
C143	WATER QUALITY BASIN PLAN
C144	MASTER DRAINAGE PLAN
C145	DRAINAGE PLAN
C146	DRAINAGE TABLES
C147	DRAINAGE TABLES
C148	DETAIL SHEET
C149	DETAIL SHEET
C150	DETAIL SHEET

PROJECT TEAM & UTILITY CONTACT LIST	
<b>OWNER / DEVELOPER</b> HUNT MIDWEST REAL ESTATE DEVELOPMENT, INC. 8300 NE UNDERGROUND DRIVE KANSAS CITY, MO 64161 CONTACT: AARON SCHMIDT PHONE: 816.455.2500	<b>UTILITY SERVICE NUMBERS</b> NAME: LEE'S SUMMIT PUBLIC WORKS PHONE: 816-969-1800  NAME: LEE'S SUMMIT WATER & SERVICES DEPARTMENT PHONE: 816-969-1940  NAME: SPIRE (MGE) PHONE: 314-342-0500  NAME: AT&T PHONE: 800-286-8313  NAME: EVERGY PHONE: 816-471-5275  NAME: SPECTRUM (TWC) PHONE: 877-772-2253  NAME: GOOGLE FIBER PHONE: 877-454-6959
<b>ENGINEER</b> OLSSON 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JULIE E. SELLERS, P.E. PHONE: 816.361.1177 EMAIL: JSSELLERS@OLSSON.COM	
<b>SURVEYOR</b> OLSSON 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JASON ROUDEBUSH, P.L.S. PHONE: 816.361.1177 EMAIL: JROUDEBOUSH@OLSSON.COM	

NOT FOR CONSTRUCTION  
 REVIEWED FOR CONSTRUCTION

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

  
 JULIE E. SELLERS, P.E.  
 CIVIL ENGINEER  
 MO # PE-2017000367

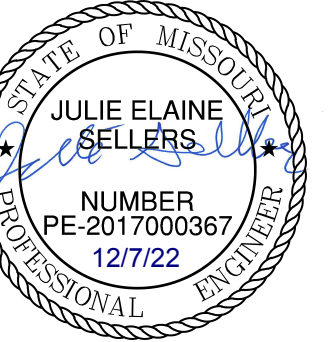
12/7/22  
 DATE

## AS BUILT

DATE SURVEYED: 2022-05-26

I HEREBY CERTIFY THAT THE CONDITIONS SHOWN ARE CORRECT AND THE SEWER ARE ACCEPTABLY LOCATED WITHIN EXISTING EASEMENTS OR RIGHT OF WAYS.

# olsson



REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

TITLE SHEET  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO

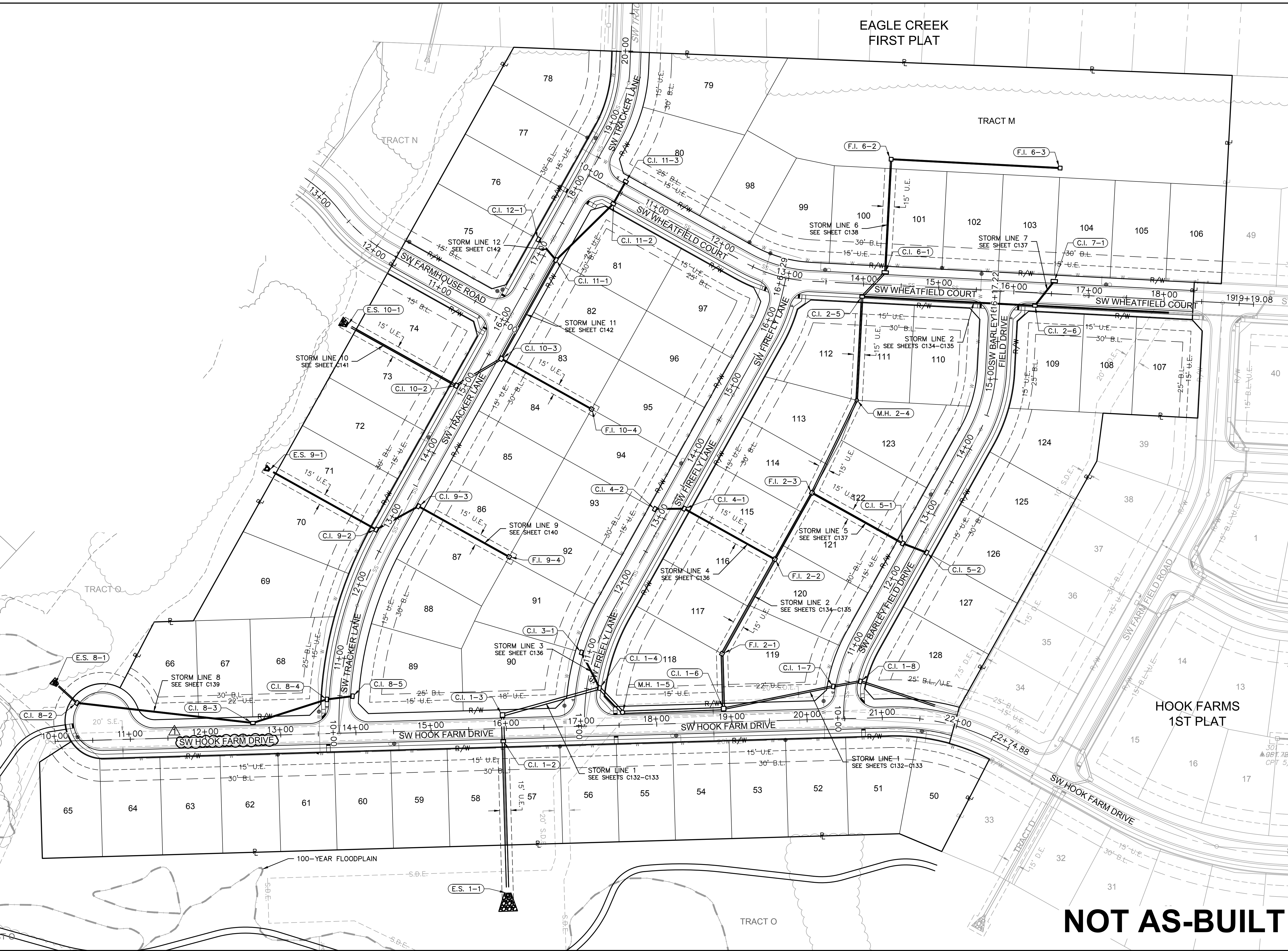
drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4081  
 date: 01-08-2021

SHEET  
C101





DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_GEN01\_B194061.dwg USER: ssolyor  
 DATE: Oct 11, 2022 3:25pm XREFS: C\_PBLK\_B194061 C\_PBASE\_B194061 C\_PSTRM\_B194061 C\_PUTIL\_B194061 C\_PBNDR\_B194061



**NOT AS-BUILT**

**olsson**  
 Olsson - Civil Engineering  
 Missouri Certificate of Authority #001592  
 1301 Burlington Street  
 North Kansas City, MO 64116  
 TEL 816.361.1177  
 FAX 816.361.1888  
 www.olson.com



REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
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3	09-30-2021	CHANGES TO APPROVED PLANS

GENERAL LAYOUT  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021



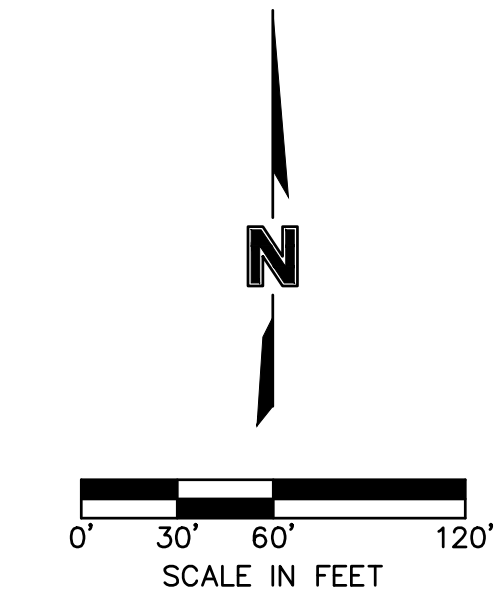
**GENERAL NOTES:**

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.

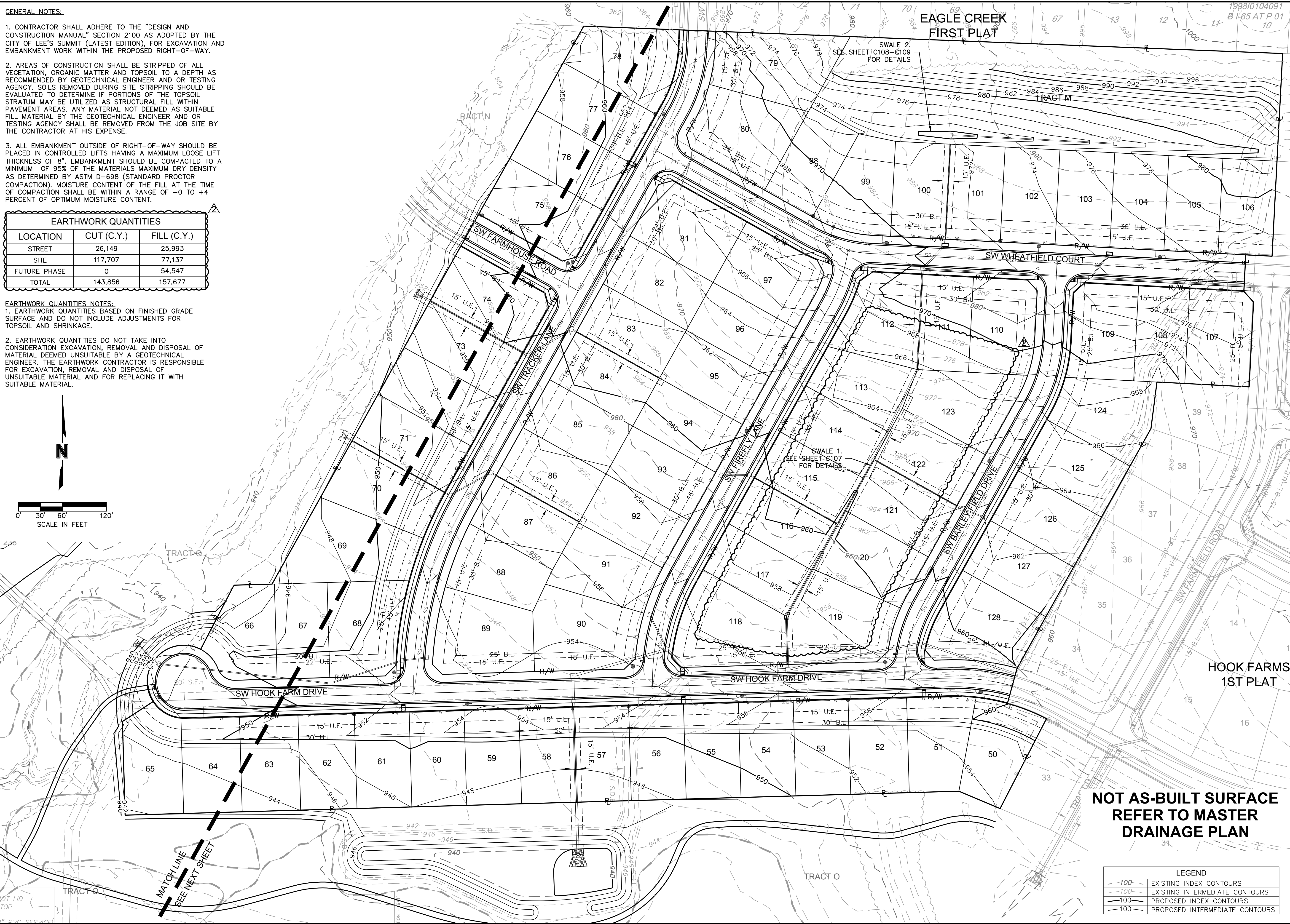
EARTHWORK QUANTITIES		
LOCATION	CUT (C.Y.)	FILL (C.Y.)
STREET	26,149	25,993
SITE	117,707	77,137
FUTURE PHASE	0	54,547
TOTAL	143,856	157,677

**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.



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 C\_PBNDRY\_B194061  
 C\_FBASE\_B194061



**NOT AS-BUILT SURFACE  
REFER TO MASTER  
DRAINAGE PLAN**

**LEGEND**

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

**olsson**

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STATE OF MISSOURI  
 JULIE ELAINE SELLERS  
 PROFESSIONAL ENGINEER  
 NUMBER PE-2017000367  
 12/17/22

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
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3	09-30-2021	CHANGES TO APPROVED PLANS

GRADING PLAN (FOR REFERENCE)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO

2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

**GENERAL NOTES:**

- 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.
- 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.
- 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.

FUTURE PHASE EARTHWORK CONTRIBUTIONS	
LOCATION	FILL (C.Y.)
HOOK FARMS 2ND PLAT	40,727
RETREAT AT HOOK FARMS 2ND PLAT	9,872
EXCESS	3,948

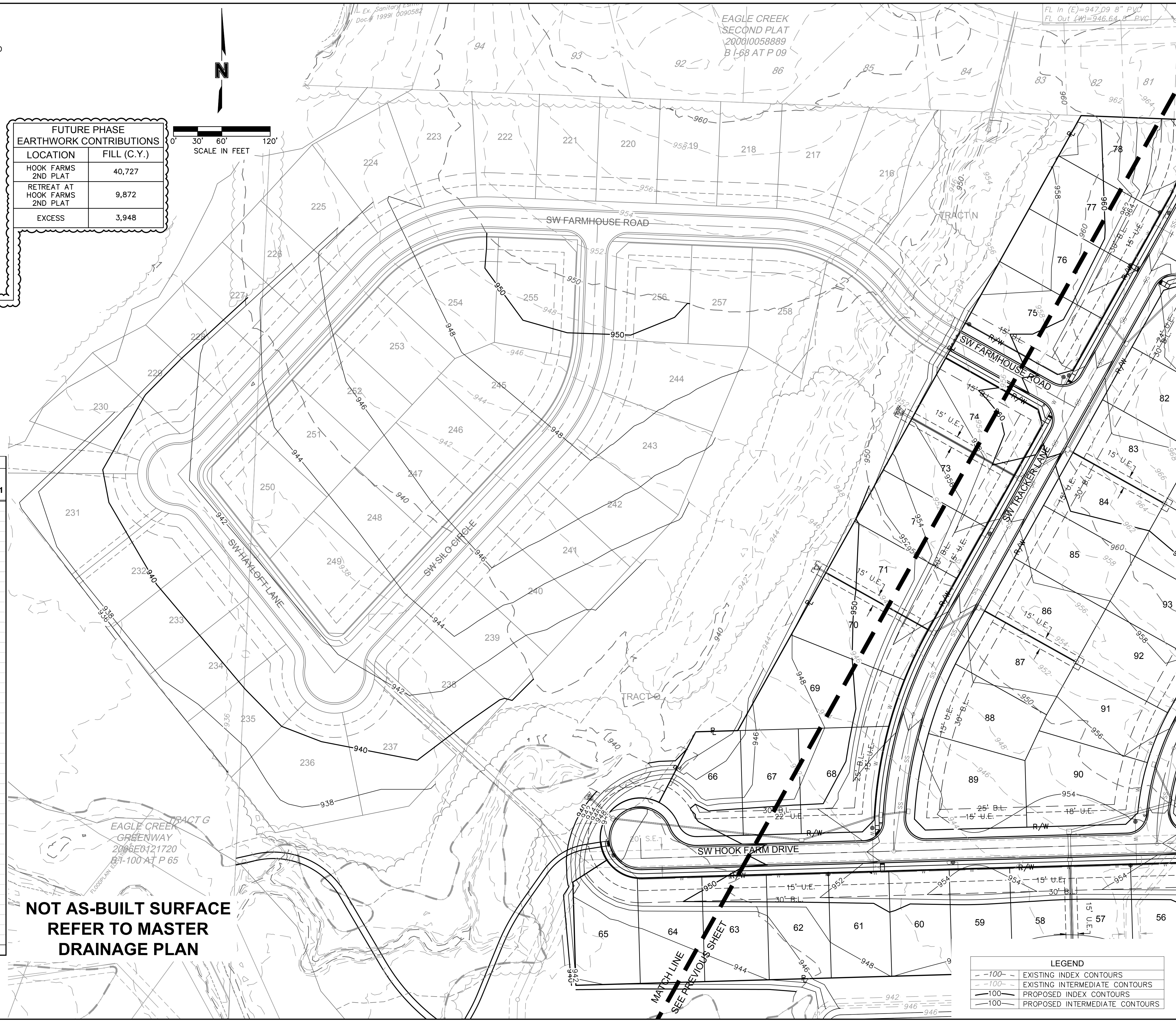
EARTHWORK QUANTITIES		
LOCATION	CUT (C.Y.)	FILL (C.Y.)
STREET	26,149	25,993
SITE	117,707	77,137
FUTURE PHASE	0	54,547
TOTAL	143,856	157,677

- EARTHWORK QUANTITIES NOTES:**
- EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
  - 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.

LOT FILL INFORMATION			
LOT NUMBER	MAX DEPTH OF FILL (OVER 2' PLACED)	FILL PLACED ON EXISTING SLOPES > 5:1	PROPOSED SLOPES > 3:1
50	5.5'		
51	4.8'		
52	4.9'		
53	5.2'		
54	7.5'		
55	8.2'		
56	9.7'	X	
57	8.7'	X	
58	10.7'		
59	11.6'		
60	11.6'		
61	11.4'		
62	11.1'		
63	11.0'		
64	10.8'		
65	10.8'		
66	9.8'		
67	10.0'		
68	11.2'		
69	10.7'		
70	9.1'		
71	8.3'		
72	7.1'		
73	5.9'		
74	5.7'		
75	4.7'		
76	3.5'		
77	2.9'		
78	3.1'		
84	2.5'		
85	3.5'		
86	5.8'		
87	6.8'		
88	8.6'		
89	10.3'		
90	8.2'		
91	6.7'		
92	4.3'		
107	8.1'	X	
108	7.8'	X	
118	7.3'	X	
119	7.5'	X	
120	2.7'		
128	8.4'	X	

X Indicates condition applies to lot

**NOT AS-BUILT SURFACE  
REFER TO MASTER  
DRAINAGE PLAN**



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

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_GRD01\_B194061.dwg  
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STATE OF MISSOURI  
JULIE ELAINE SELLERS  
NUMBER PE-2017000367  
12/7/22  
PROFESSIONAL ENGINEER

GRADING PLAN (FOR REFERENCE)  
STREET & STORM SEWER PLANS

HOOK FARMS  
SECOND PLAT

REVISIONS

REV. NO.	DATE	DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
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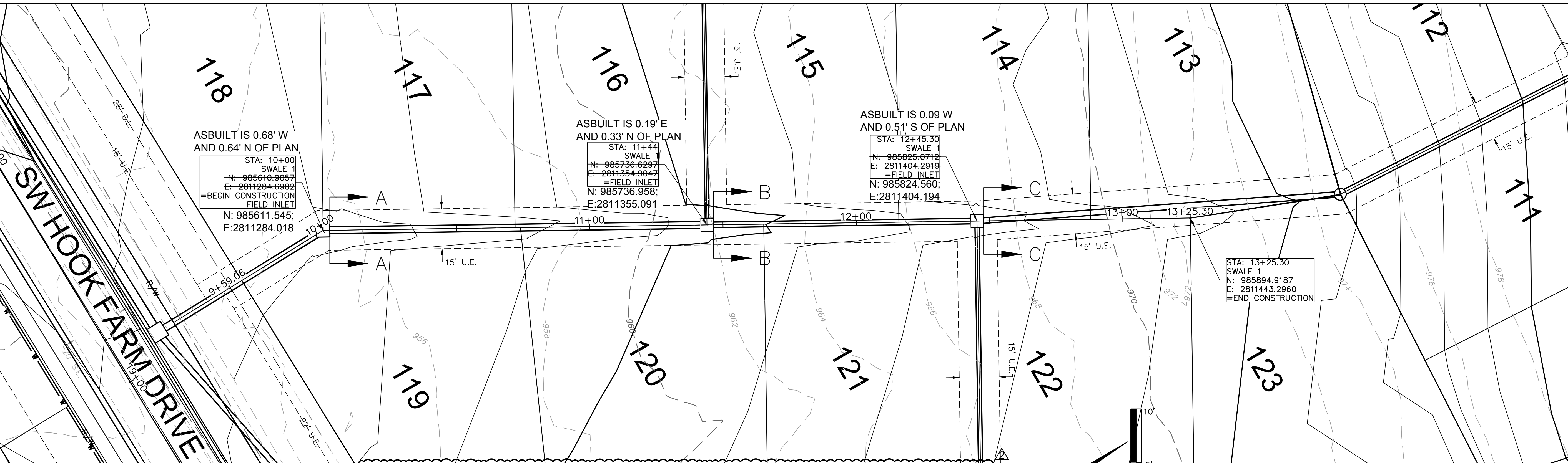
drawn by: B.M.W./A.A.  
checked by: B.M.W.  
designed by: B.M.W./A.A.  
QA/QC by: J.E.S.  
project no.: B19-4061  
date: 01-08-2021

2021

LEE'S SUMMIT, MO

SHEET  
C106

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_SWL01\_B194061.dwg  
 DATE: Oct 11, 2022 3:28pm  
 USER: sso\jor C\_PUTIL\_B194061 C\_PBASE\_B194061 C\_PBNDR\_B194061



ASBUILT IS 0.68' W  
AND 0.64' N OF PLAN  
 STA: 10+00  
 SWALE 1  
 N: 985610.9057  
 E: 2811284.6982  
 =BEGIN CONSTRUCTION  
 FIELD INLET  
 N: 985611.545;  
 E: 2811284.018

ASBUILT IS 0.19' E  
AND 0.33' N OF PLAN  
 STA: 11+44  
 SWALE 1  
 N: 985736.6297  
 E: 2811354.9047  
 =FIELD INLET  
 N: 985736.958;  
 E: 2811355.091

ASBUILT IS 0.09 W  
AND 0.51' S OF PLAN  
 STA: 12+45.30  
 SWALE 1  
 N: 985825.0712  
 E: 2811404.2919  
 =FIELD INLET  
 N: 985824.560;  
 E: 2811404.194

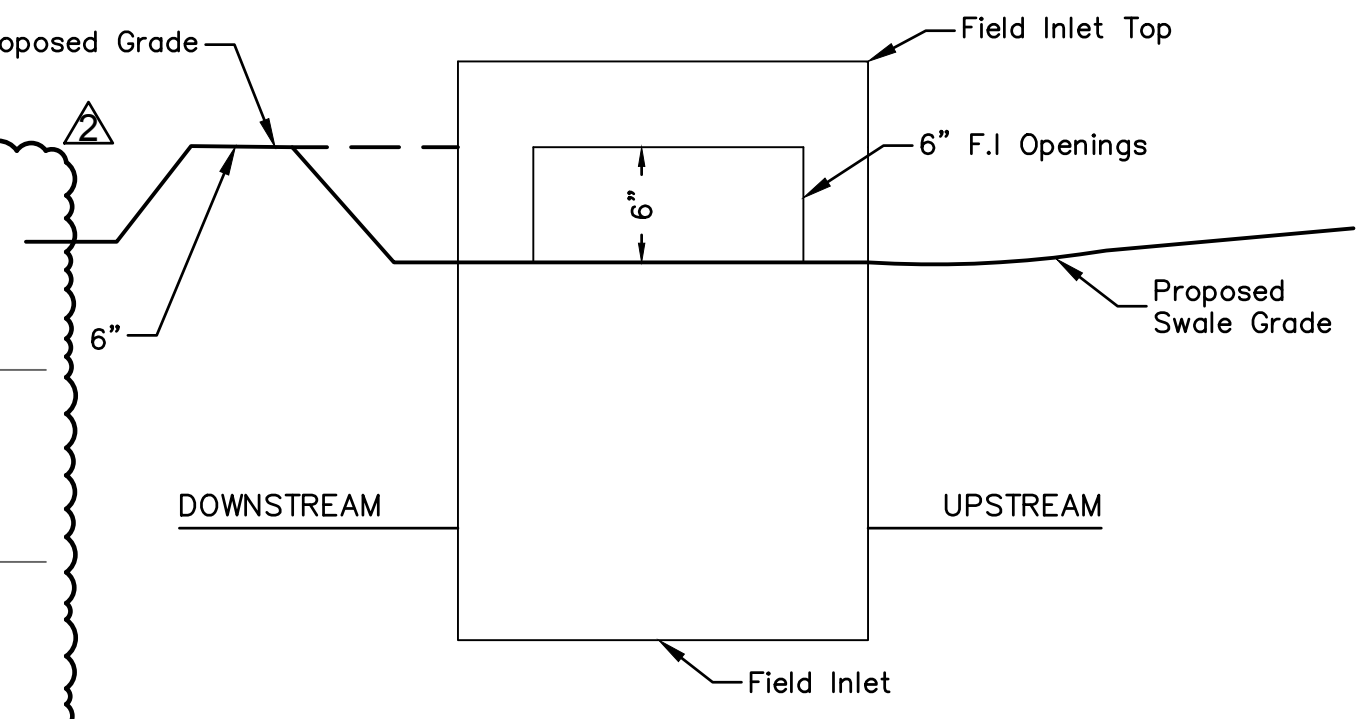
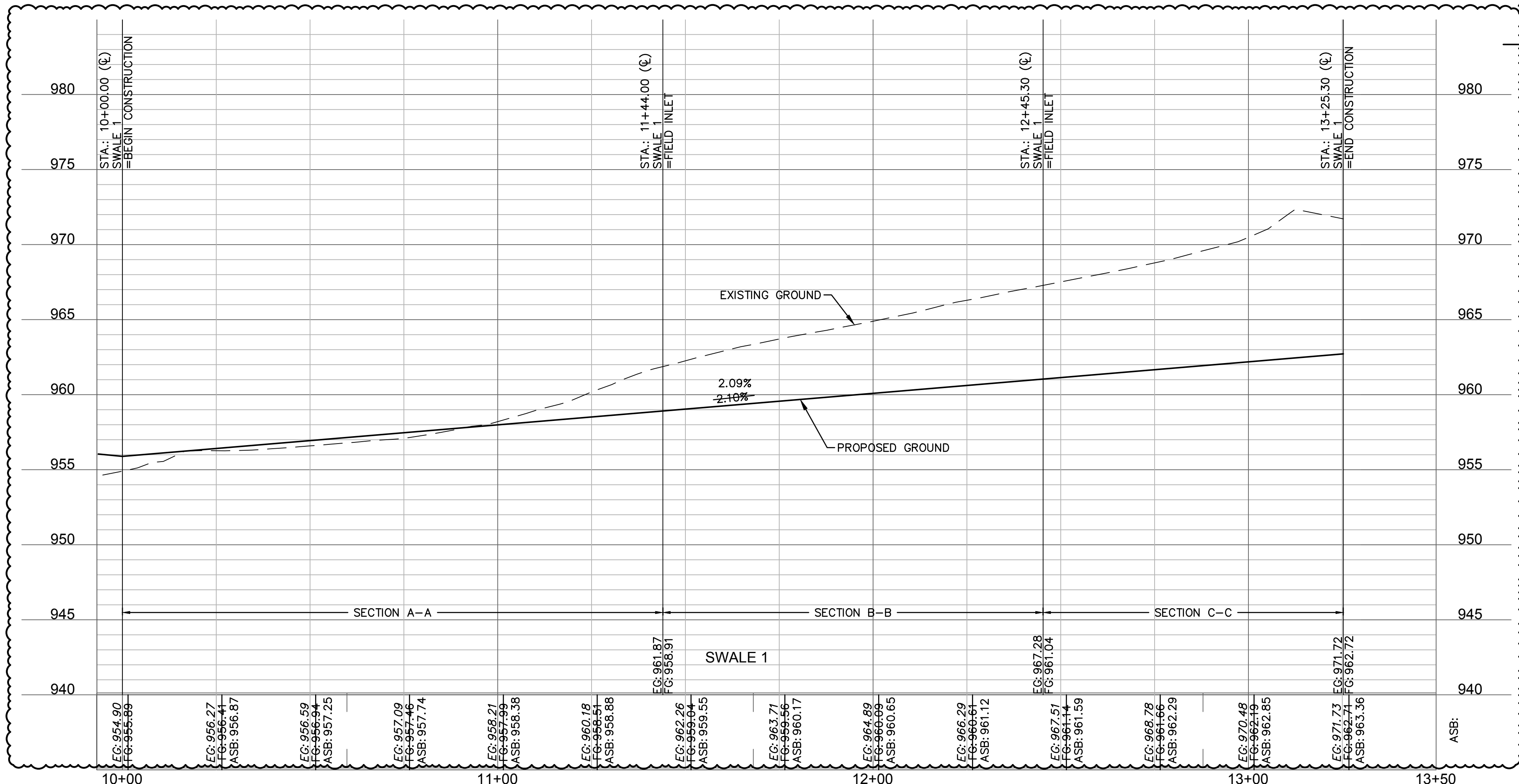
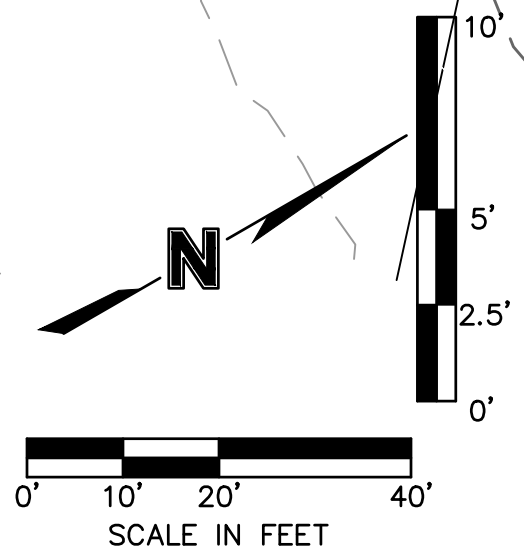
STA: 13+25.30  
 SWALE 1  
 N: 985894.9187  
 E: 2811443.2960  
 =END CONSTRUCTION

Swale Drainage Area Table (100 year Return Frequency)

Section	Drainage Area (ac.)	C	Tc (min)	i (in/hr)	K	Peak Flow (cfs)
A-A	0.89	0.51	11	8.06	1.25	4.56
B-B	0.49	0.51	12	5.73	2.25	3.21
C-C	0.86	0.51	5	8.27	1.25	4.52

Swale Design Table (100 Year Return Frequency)

SECTION	Section Data					Flow Data								
	Mannings Coefficient	Channel Slope (%)	Swale Depth (ft)	Left Side Slope (H:V)	Right Side Slope (H:V)	Bottom Width (ft)	Discharge (cfs)	Water Depth (ft)	Flow Area (ft <sup>2</sup> )	Velocity (ft/sec)	Wetted Perimeter (ft)	Top Width (ft)	Specific Energy (ft)	Shear Stress (lbs/ft <sup>2</sup> )
A-A	0.03	2.10%	1.29	3:1	3:1	5.00	4.56	0.29	1.70	2.68	6.83	6.74	0.40	0.33
B-B	0.03	2.10%	1.23	3:1	3:1	5.00	3.21	0.23	1.31	2.45	6.45	6.38	0.32	0.27
C-C	0.03	2.10%	1.28	3:1	3:1	5.00	4.52	0.28	1.64	2.76	6.77	6.68	0.40	0.32



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

SUMP DETAIL  
N.T.S.

**AS BUILT**

DATE SURVEYED: 2022-05-26

PG. VARIES\*  
VARIES L  
PG. 0.00  
2.50' L  
PG. 0.00  
2.50' R  
PG. VARIES\*  
VARIES R

N.T.S.  
01 SWALE TYPICAL SECTION A-A, B-B & C-C  
\*NOTE: SEE TABLE FOR SWALE DEPTH

SWALE GRADING NOTES:

- CONTRACTOR SHALL CONSTRUCT SWALES WITH MINIMUM SLOPE, WIDTH AND DEPTH AS SHOWN IN THE SWALE DESIGN TABLES.
- 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.

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REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

SWALE 1 PLAN & PROFILE  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEES SUMMIT, MO

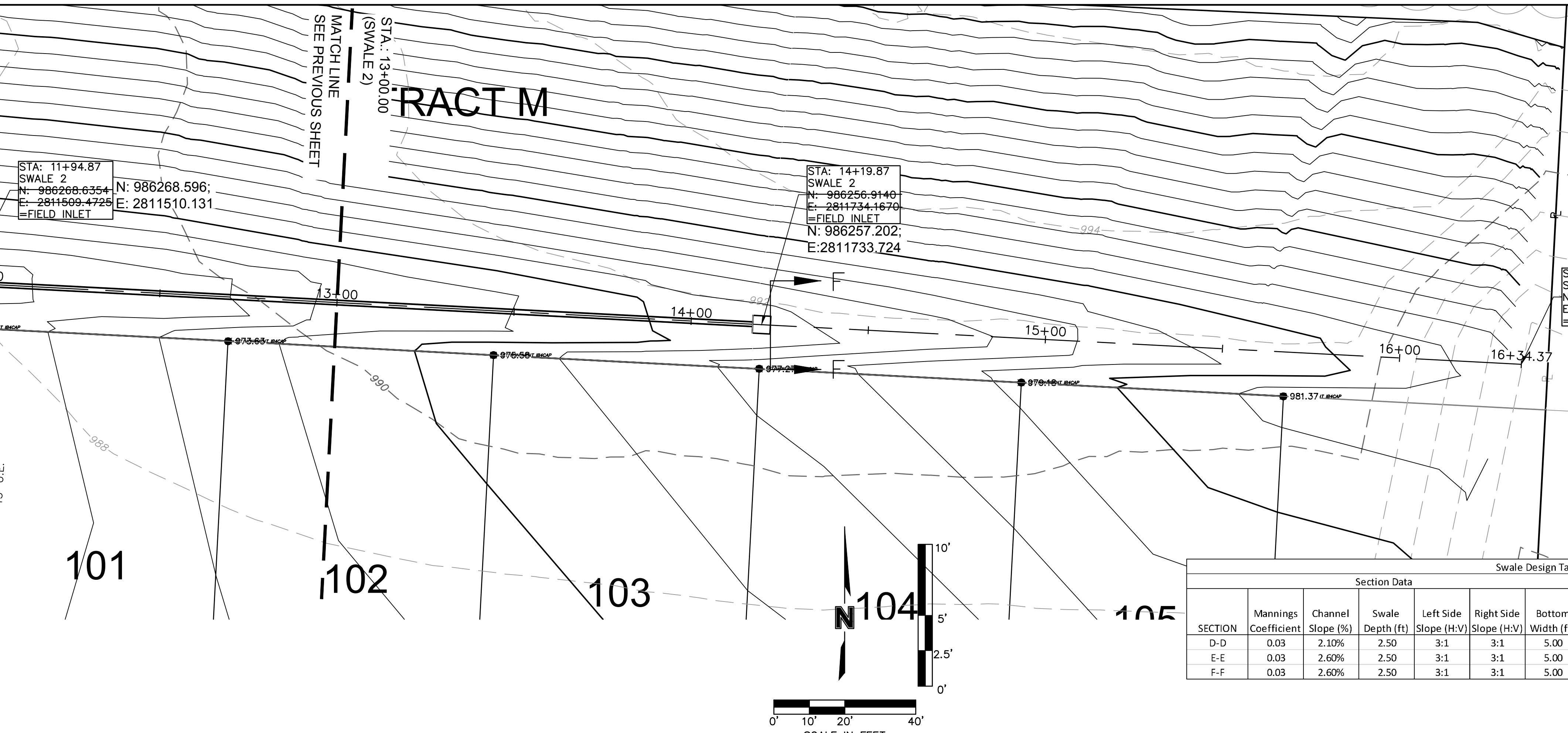
REVISIONS  
 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021





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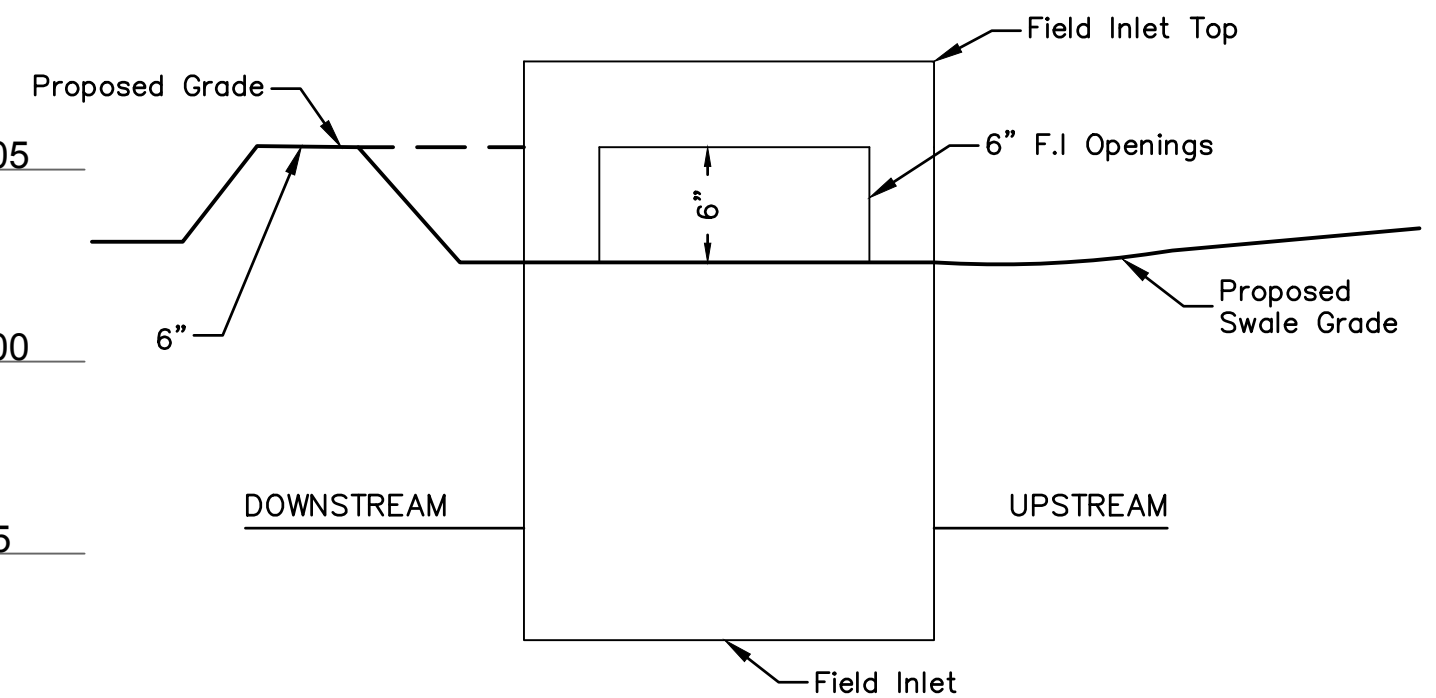
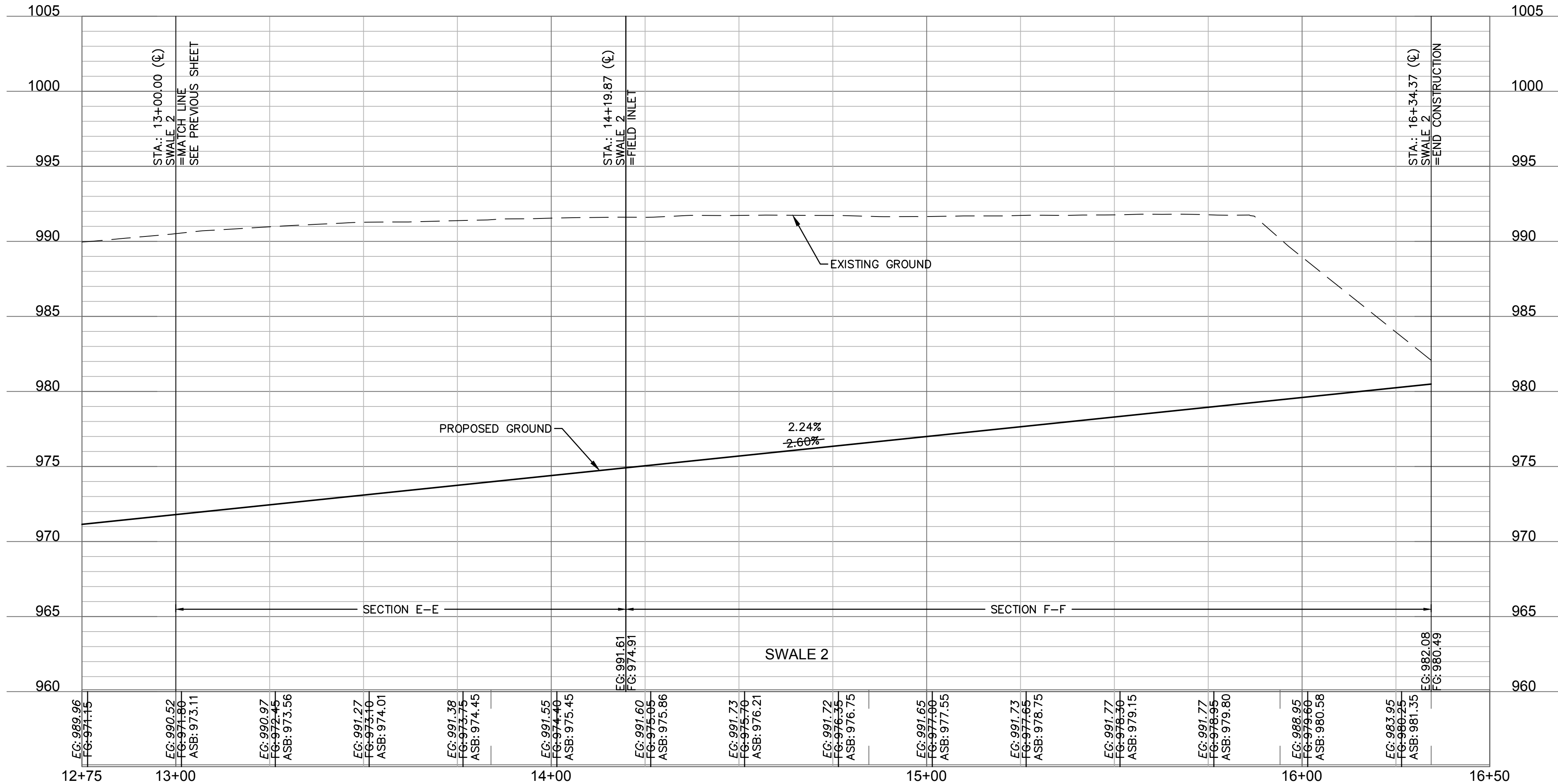
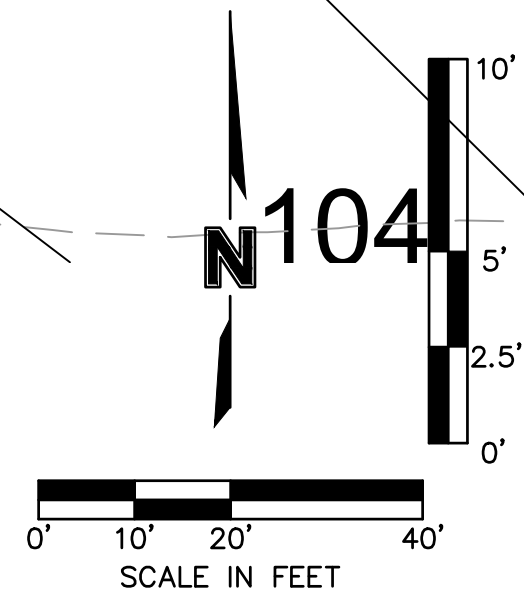


Swale Drainage Area Table (100 year Return Frequency)

Section	Drainage Area (ac.)	C	Tc (min)	i (in/hr)	K	Peak Flow (cfs)
D-D	1.02	0.51	5	8.27	1.25	5.37
E-E	1.30	0.51	5	4.60	2.25	6.88
F-F	1.29	0.51	5	3.18	3.25	6.78

Swale Design Table (100 Year Return Frequency)

SECTION	Section Data					Flow Data								
	Mannings Coefficient	Channel Slope (%)	Swale Depth (ft)	Left Side Slope (H:V)	Right Side Slope (H:V)	Bottom Width (ft)	Discharge (cfs)	Water Depth (ft)	Flow Area (ft <sup>2</sup> )	Velocity (ft/sec)	Wetted Perimeter (ft)	Top Width (ft)	Specific Energy (ft)	Shear Stress (lbs/ft <sup>2</sup> )
D-D	0.03	2.10%	2.50	3:1	3:1	5.00	5.37	0.31	1.84	2.92	6.96	6.86	0.44	0.35
E-E	0.03	2.60%	2.50	3:1	3:1	5.00	6.88	0.34	2.05	3.36	7.15	7.04	0.52	0.46
F-F	0.03	2.60%	2.50	3:1	3:1	5.00	6.78	0.34	2.05	3.31	7.15	7.04	0.52	0.46

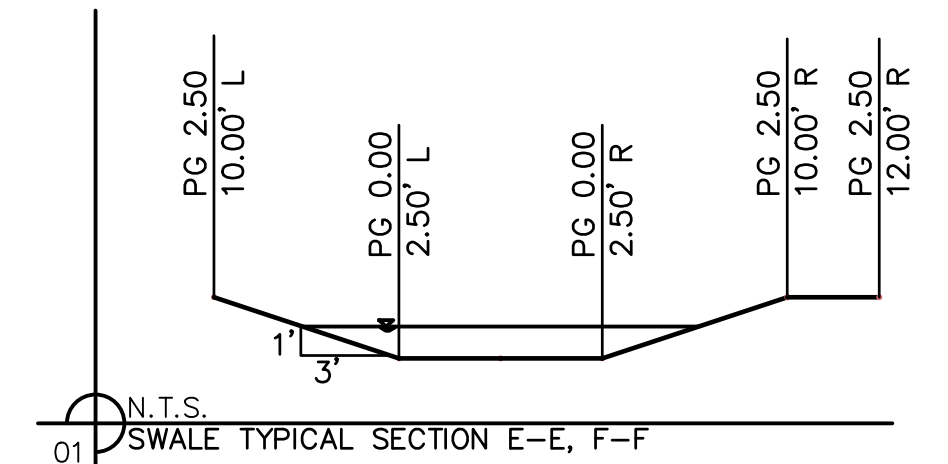


NOTE: INCLUDE SUMP PER ABOVE DETAIL WHERE FIELD INLETS ARE LOCATED WITHIN SWALES.

SUMP DETAIL  
N.T.S.

**AS BUILT**

DATE SURVEYED: 2022-05-26

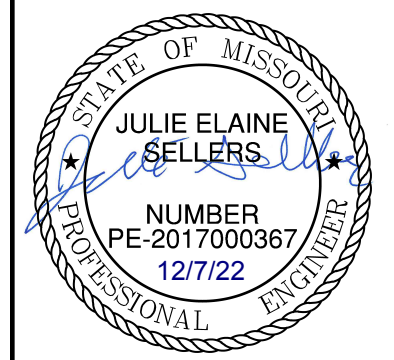


SWALE GRADING NOTES:

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REVISIONS

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3	09-30-2021	CHANGES TO APPROVED PLANS

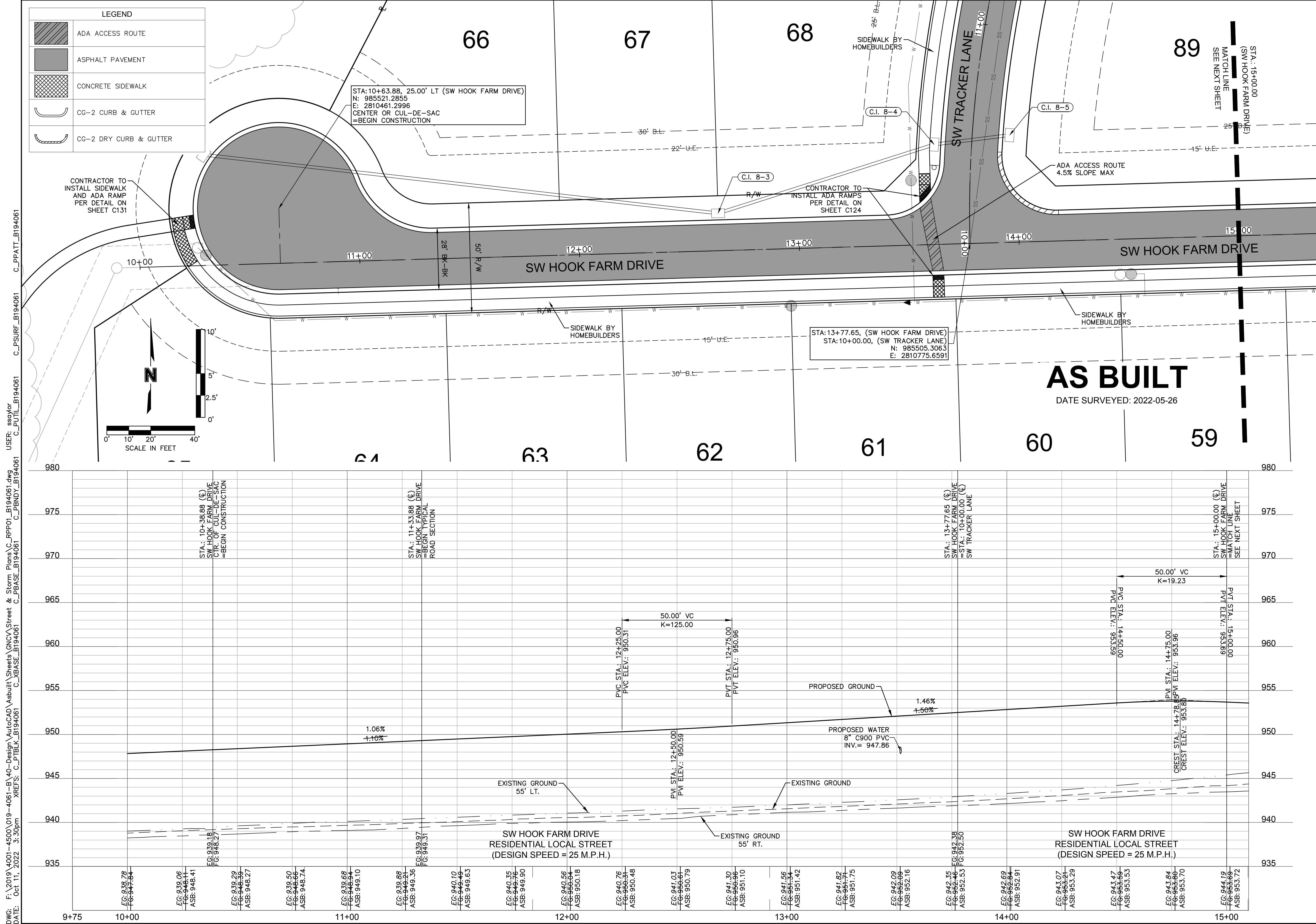
SWALE 2 PLAN & PROFILE  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO

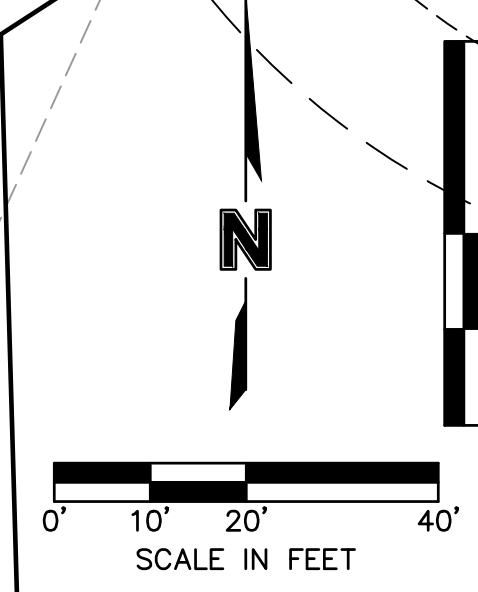
2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021



**LEGEND**

	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER



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STATE OF MISSOURI  
**JULIE ELAINE SELLERS**  
 NUMBER PE-2017000367  
 12/17/22  
 PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
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3	09-30-2021	CHANGES TO APPROVED PLANS

ROADWAY PLAN & PROFILE (SW HOOK FARM DRIVE)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

2021

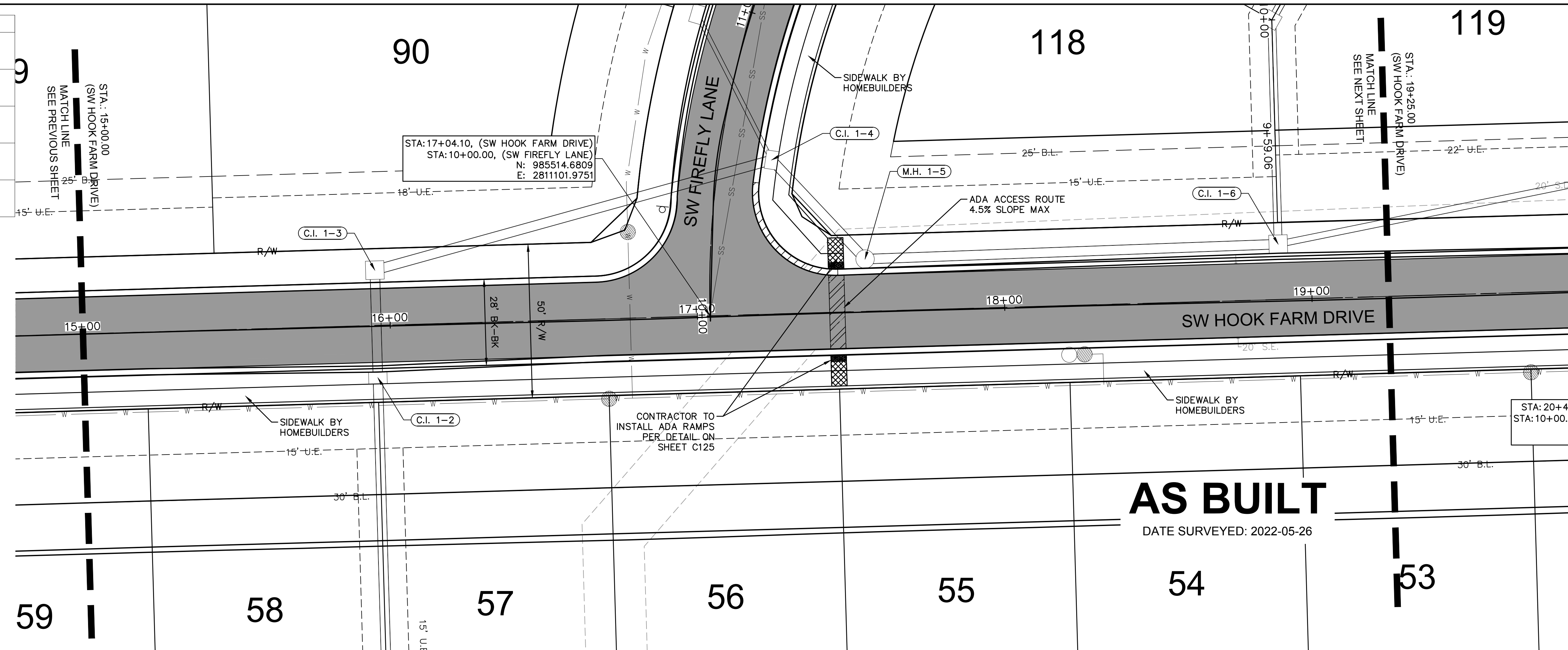
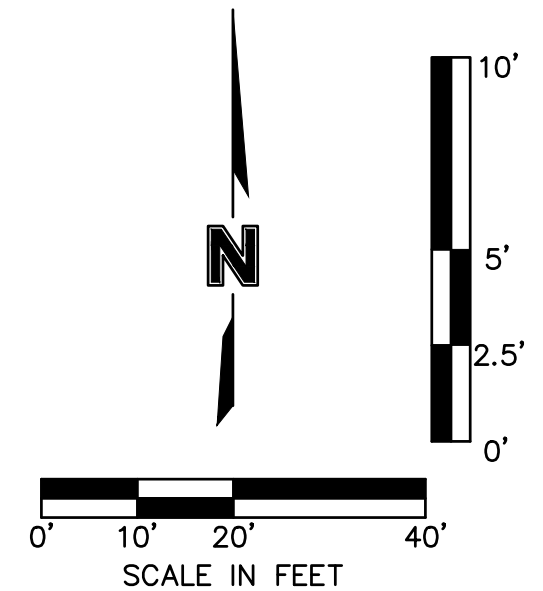
LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: B.M.W./A.A.  
 project no.: B19-4061  
 date: 01-08-2021

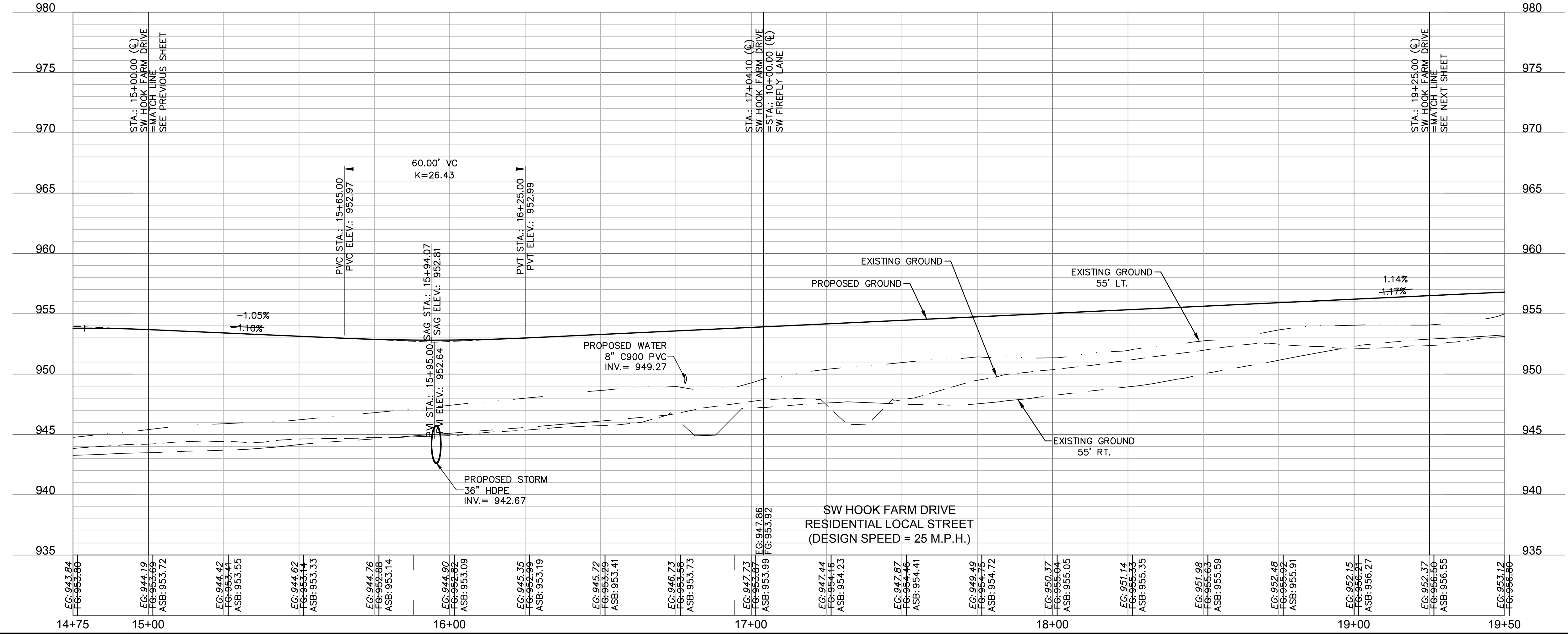
**SHEET**  
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LEGEND	
	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER



**AS BUILT**  
 DATE SURVEYED: 2022-05-26



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ROADWAY PLAN & PROFILE (SW HOOK FARM DRIVE)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

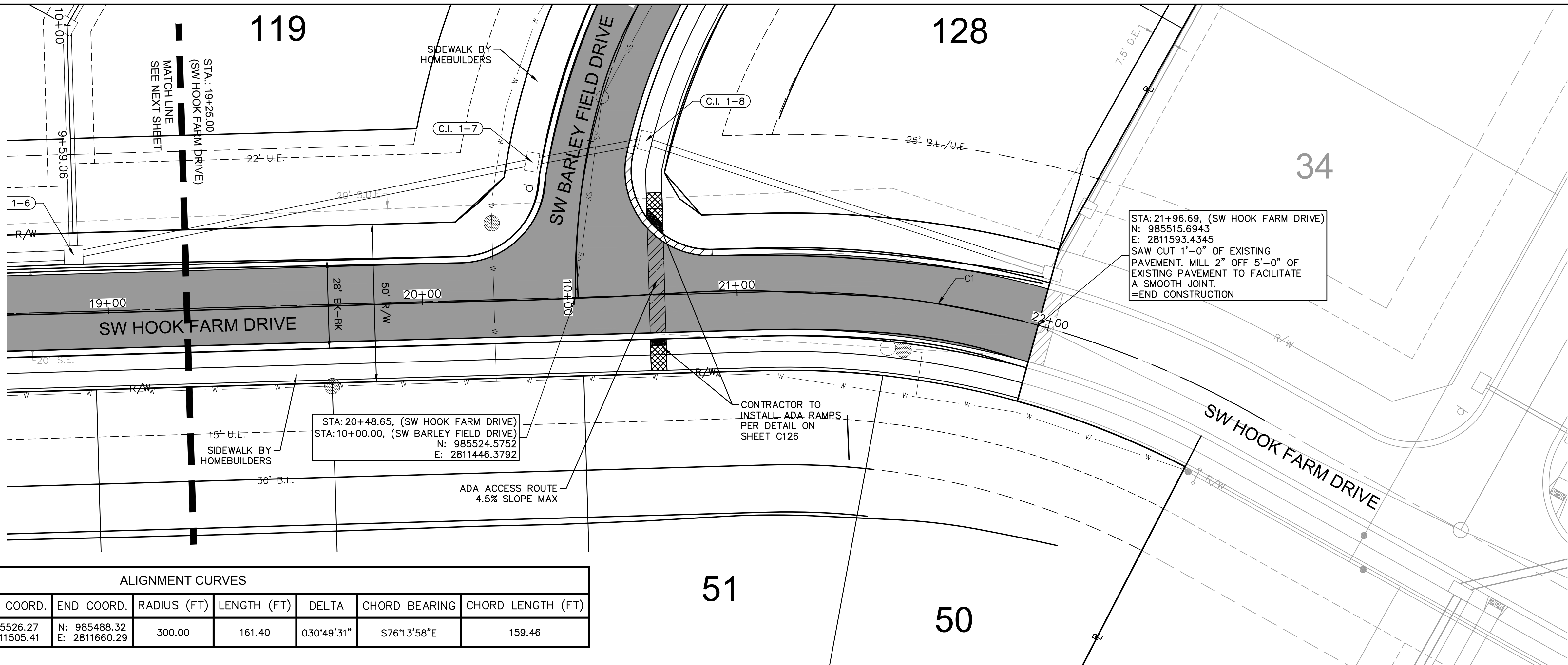
REVISIONS

LEE'S SUMMIT, MO

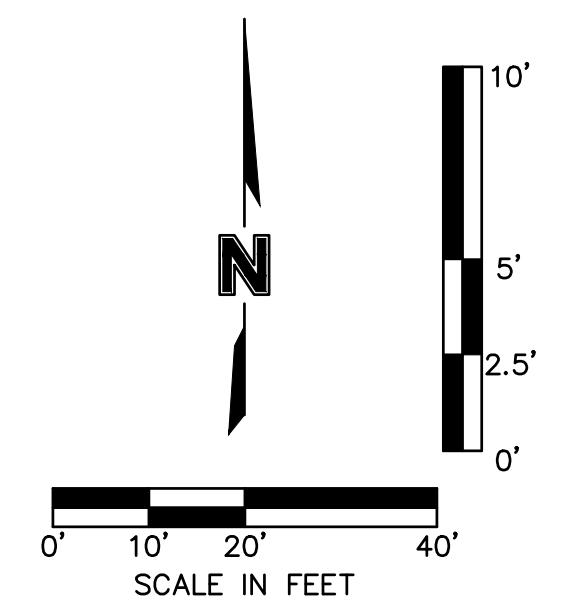
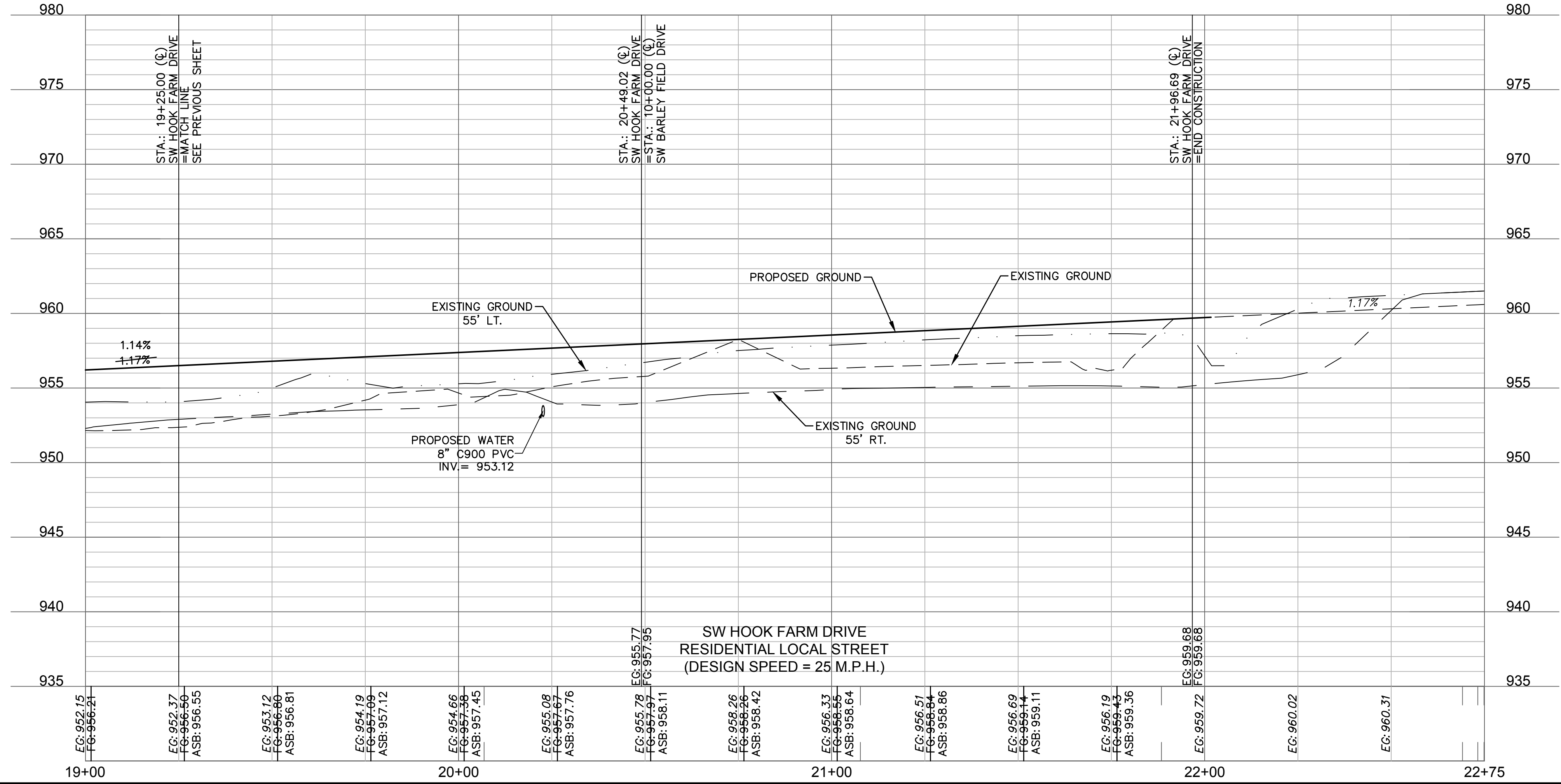
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LEGEND	
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	MILL & OVERLAY
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER

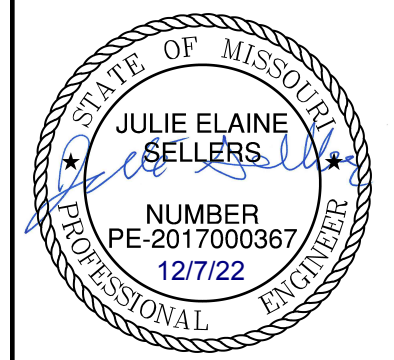


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**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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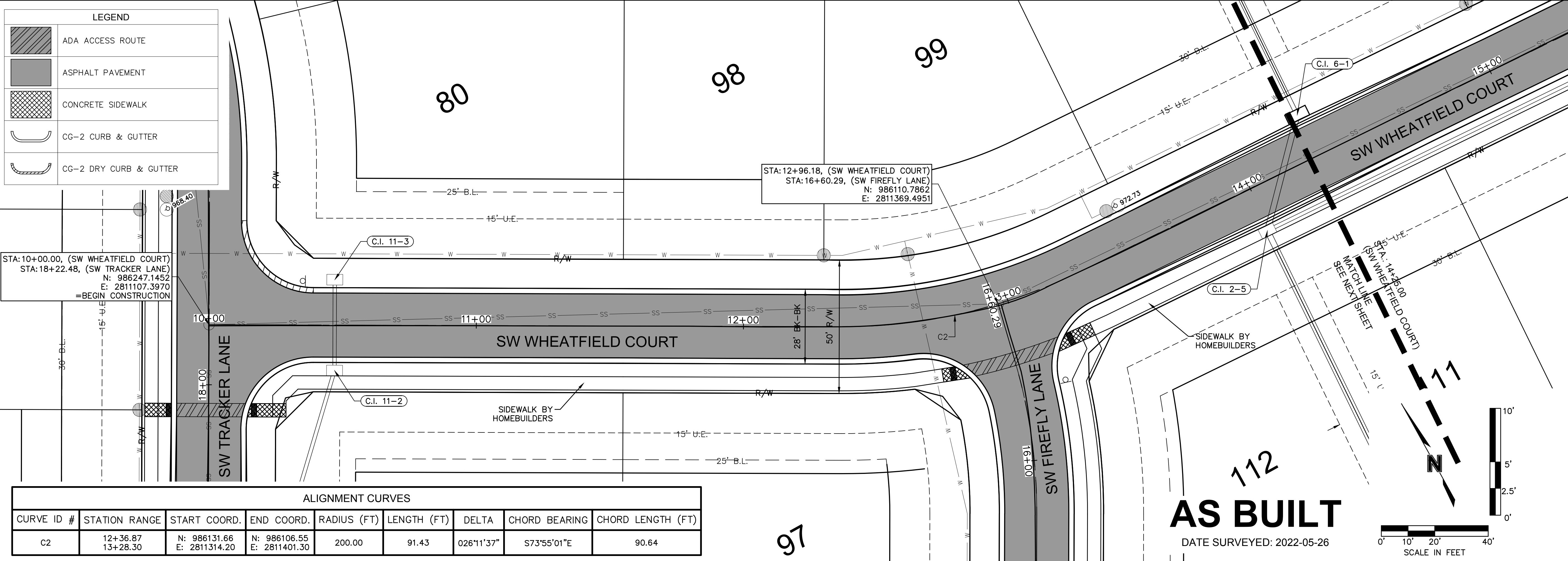


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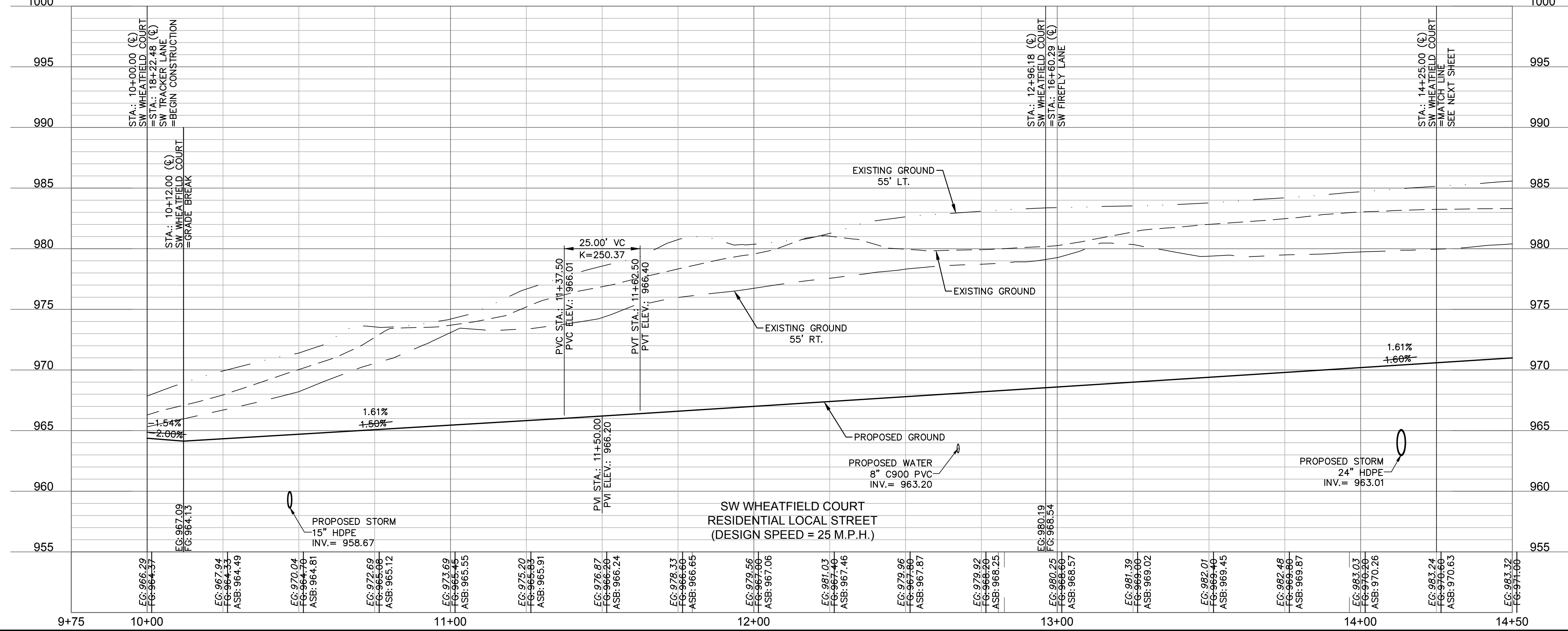
ROADWAY PLAN & PROFILE (SW HOOK FARM DRIVE)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO  
 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
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ALIGNMENT CURVES								
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STATE OF MISSOURI  
 JULIE ELAINE SELLERS  
 NUMBER PE-2017000367  
 12/7/22  
 PROFESSIONAL ENGINEER

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ROADWAY PLAN & PROFILE (SW WHEATFIELD COURT)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO

BY

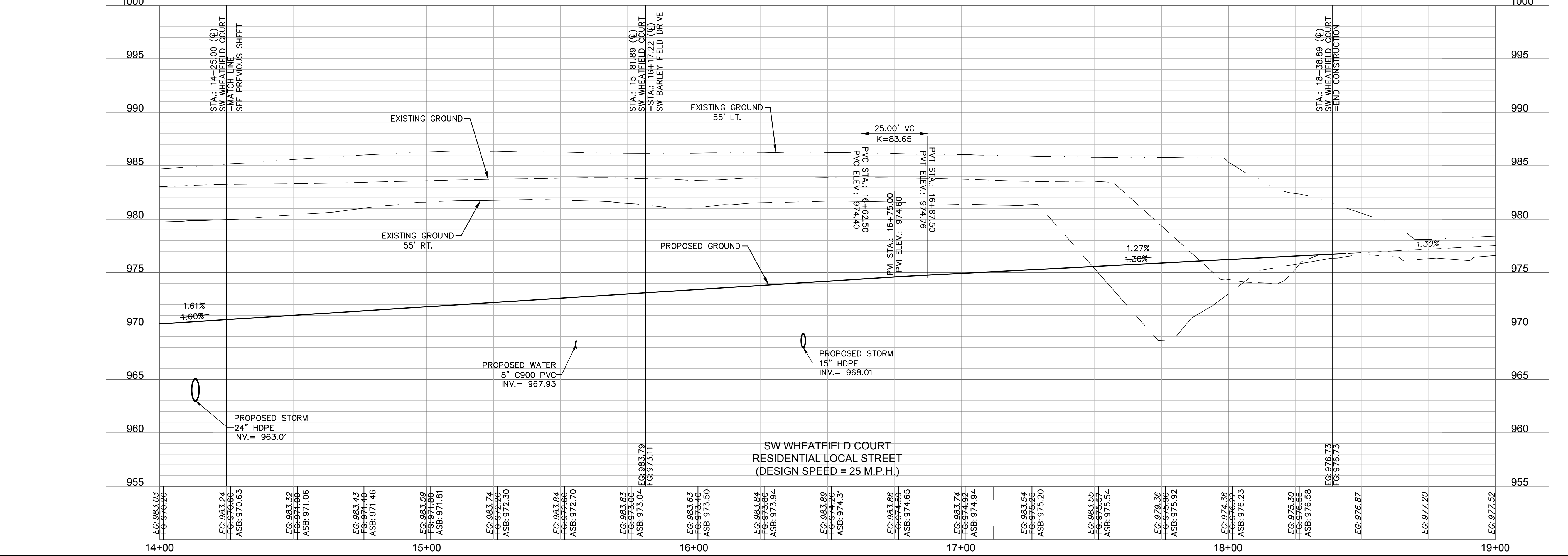
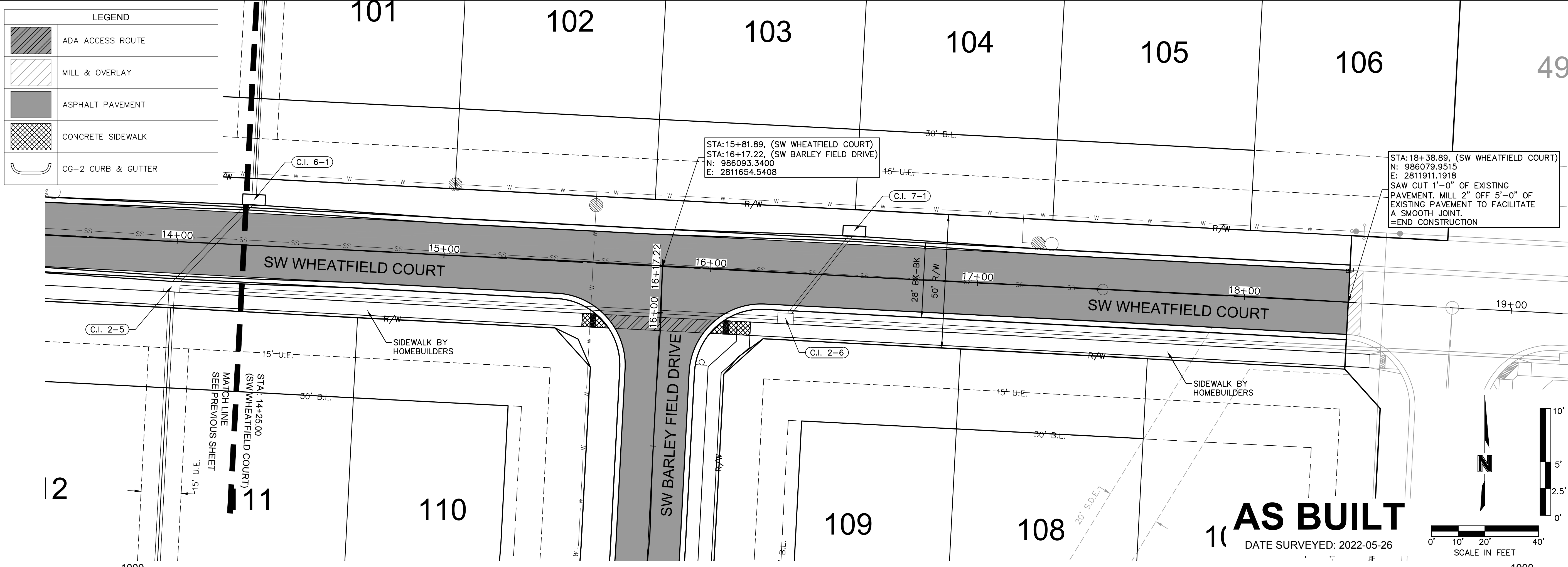
2021

REVISIONS

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: B.M.W./A.A.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET  
 C113

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 USER: sso/lor



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49

101 102 103 104 105 106

110 109 108

1000 995 990 985 980 975 970 965 960 955

14+00 15+00 16+00 17+00 18+00 19+00

SW WHEATFIELD COURT

SW BARLEY FIELD DRIVE

DATE SURVEYED: 2022-05-26

SCALE IN FEET

0' 10' 20' 40'

0' 5' 2.5'

10' 5' 2.5' 0'

AS BUILT

10

STATE OF MISSOURI

JULIE ELAINE SELLERS

NUMBER PE-2017000367

12/7/22

PROFESSIONAL ENGINEER

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ROADWAY PLAN & PROFILE (SW WHEATFIELD COURT)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO

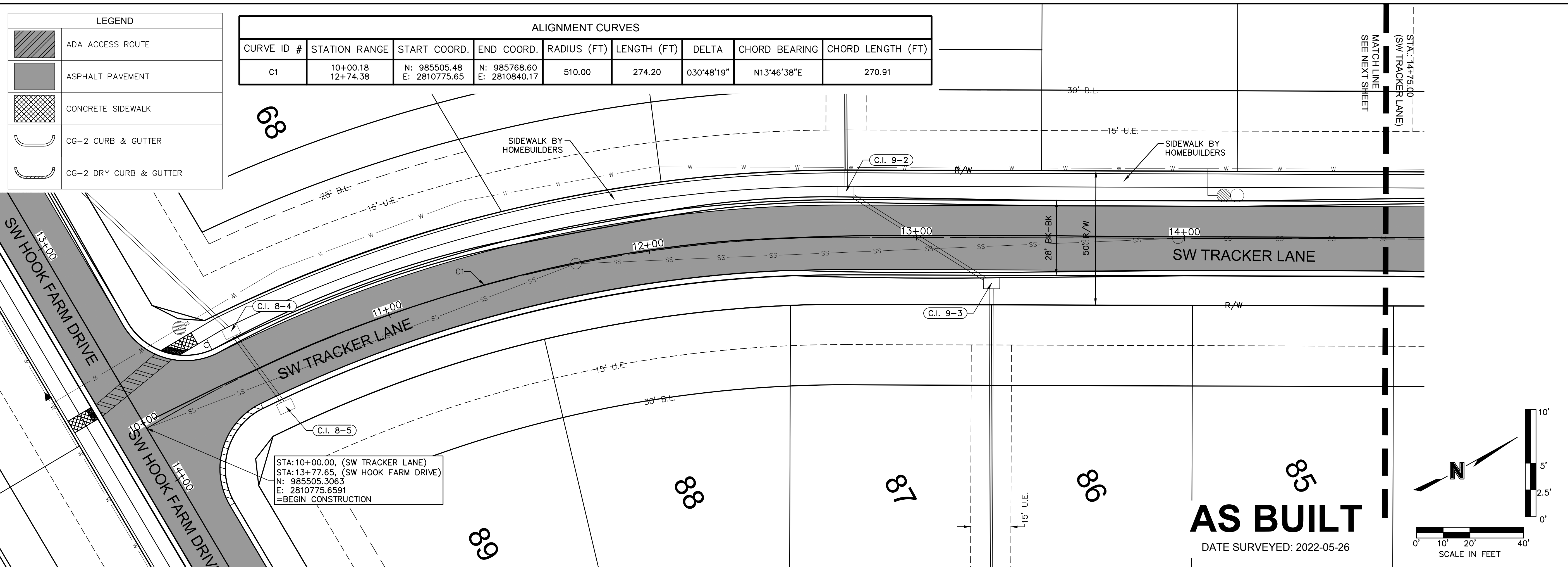
2021

REVISIONS

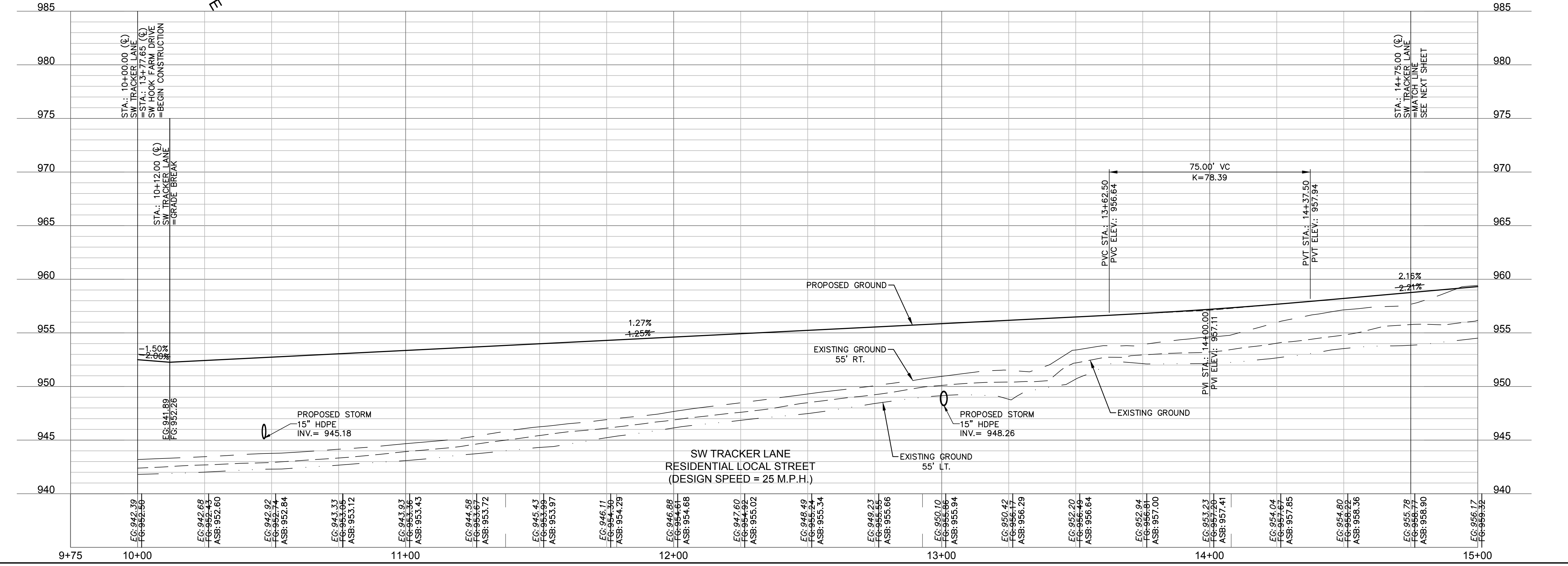
drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET  
C114

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_RPP02\_B194061.dwg  
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 USER: ssoylor

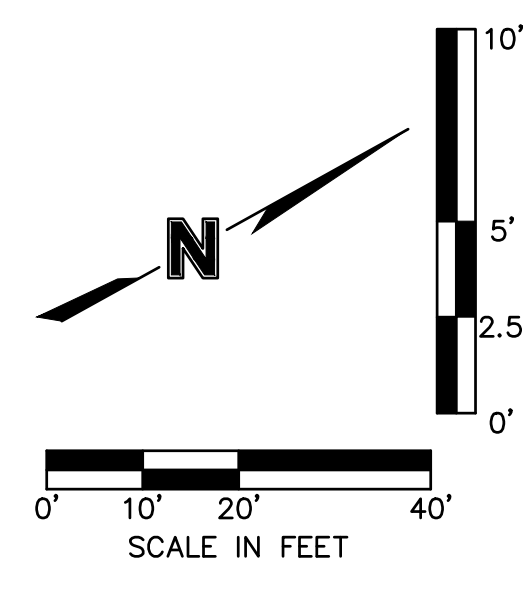


ALIGNMENT CURVES								
CURVE ID #	STATION RANGE	START COORD.	END COORD.	RADIUS (FT)	LENGTH (FT)	DELTA	CHORD BEARING	CHORD LENGTH (FT)
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LEGEND	
	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER

STA: 10+00.00, (SW TRACKER LANE)  
 STA: 13+77.65, (SW HOOK FARM DRIVE)  
 N: 985505.3063  
 E: 2810775.6591  
 =BEGIN CONSTRUCTION



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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STATE OF MISSOURI

JULIE ELAINE SELLERS

NUMBER PE-2017000367  
 12/17/22

PROFESSIONAL ENGINEER

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1	03-23-2021	REVISED PER CITY COMMENTS	
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**ROADWAY PLAN & PROFILE (SW TRACKER LANE)**  
**STREET & STORM SEWER PLANS**

HOOK FARMS  
 SECOND PLAT

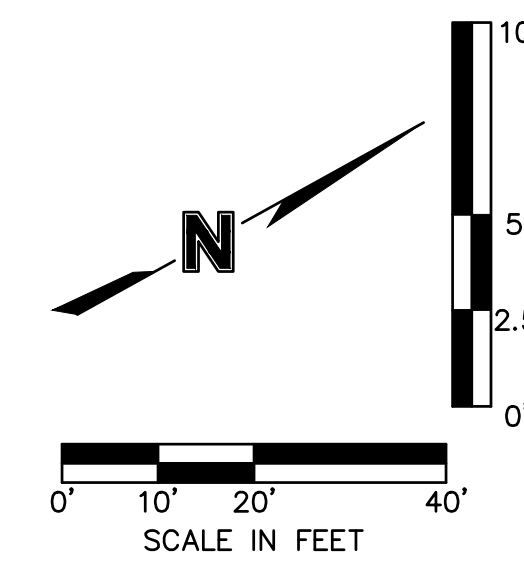
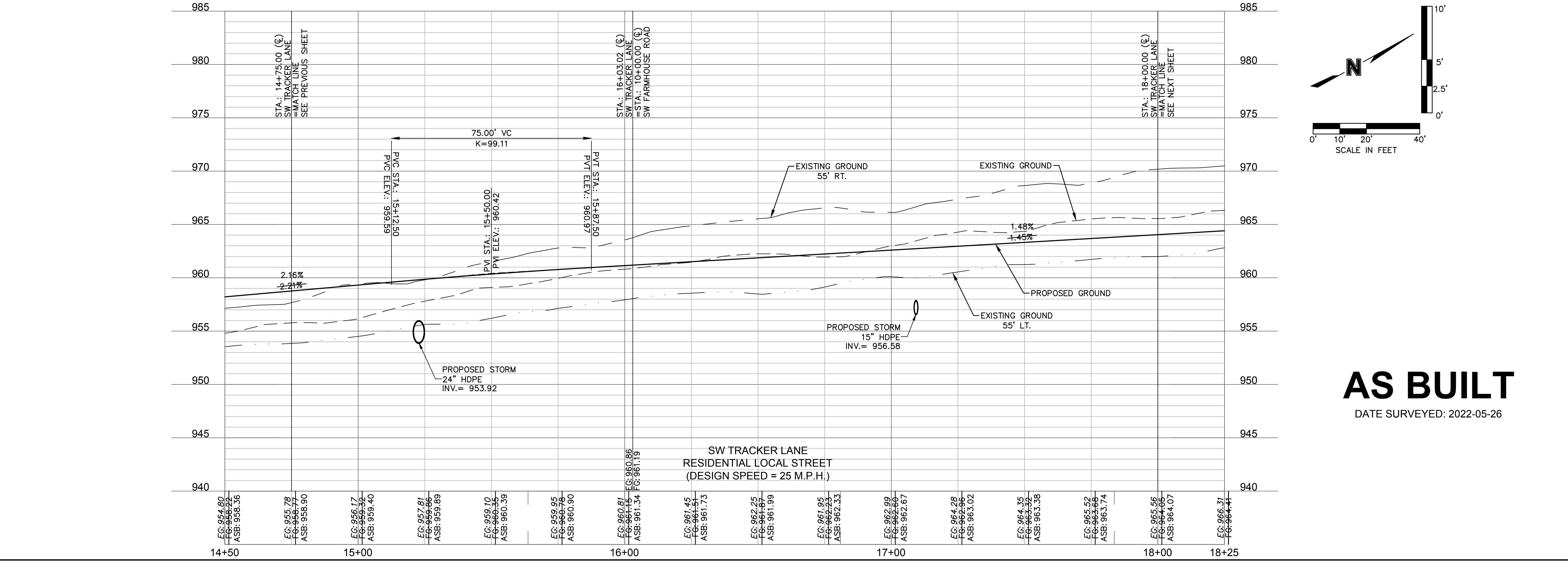
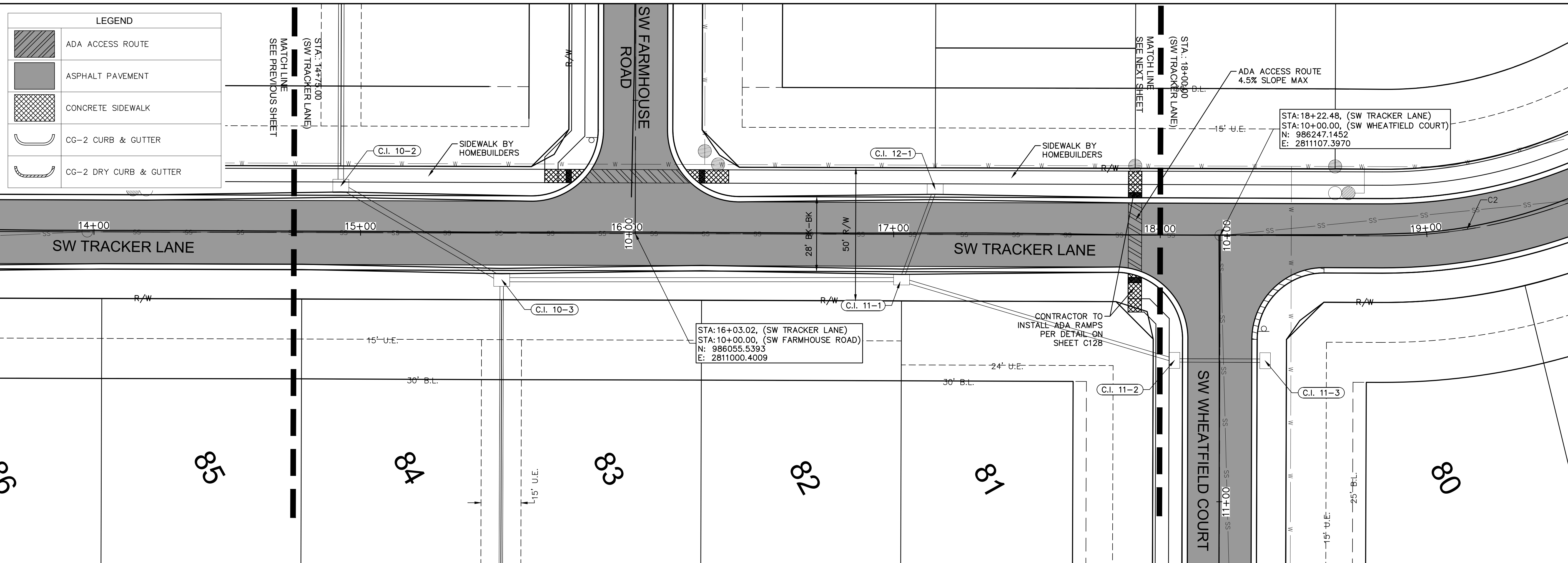
LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.	checked by: B.M.W.
designed by: B.M.W./A.A.	project no.: B19-4061
date: 01-08-2021	

SHEET  
C115

2021 REVISIONS

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 XREFS: C\_PTBK\_B194061



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

EG	FG	ASB
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962.25	964.67	961.99
961.95	962.23	962.33
962.99	962.60	962.67
964.28	964.96	963.02
964.35	963.32	963.38
965.52	962.68	963.74
965.56	962.66	964.07
966.31	966.44	

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 www.olsson.com

STATE OF MISSOURI  
 JULIE ELAINE SELLERS  
 NUMBER PE-2017000367  
 12/17/22  
 PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

ROADWAY PLAN & PROFILE (SW TRACKER LANE)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO

2021

REVISIONS

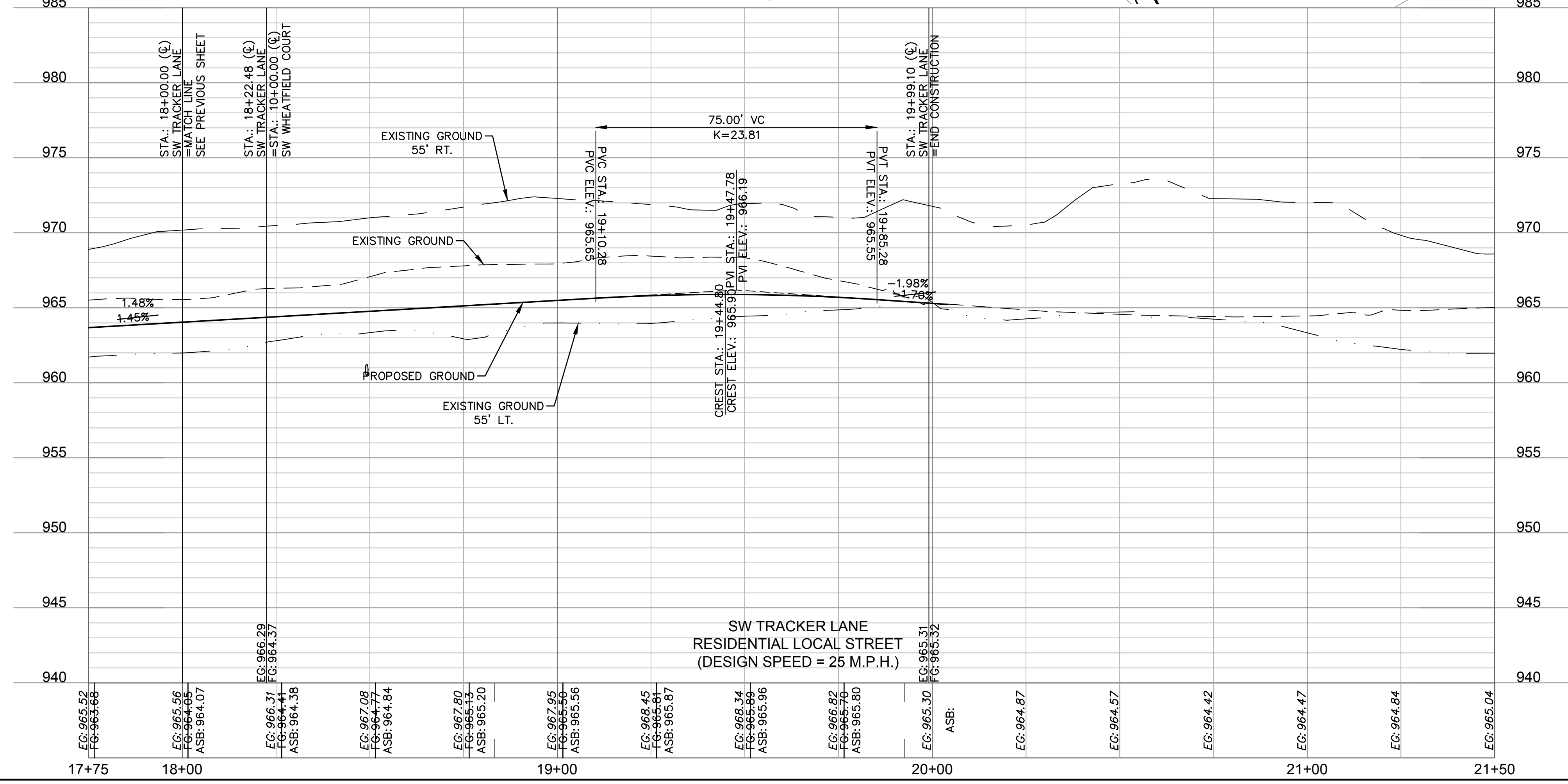
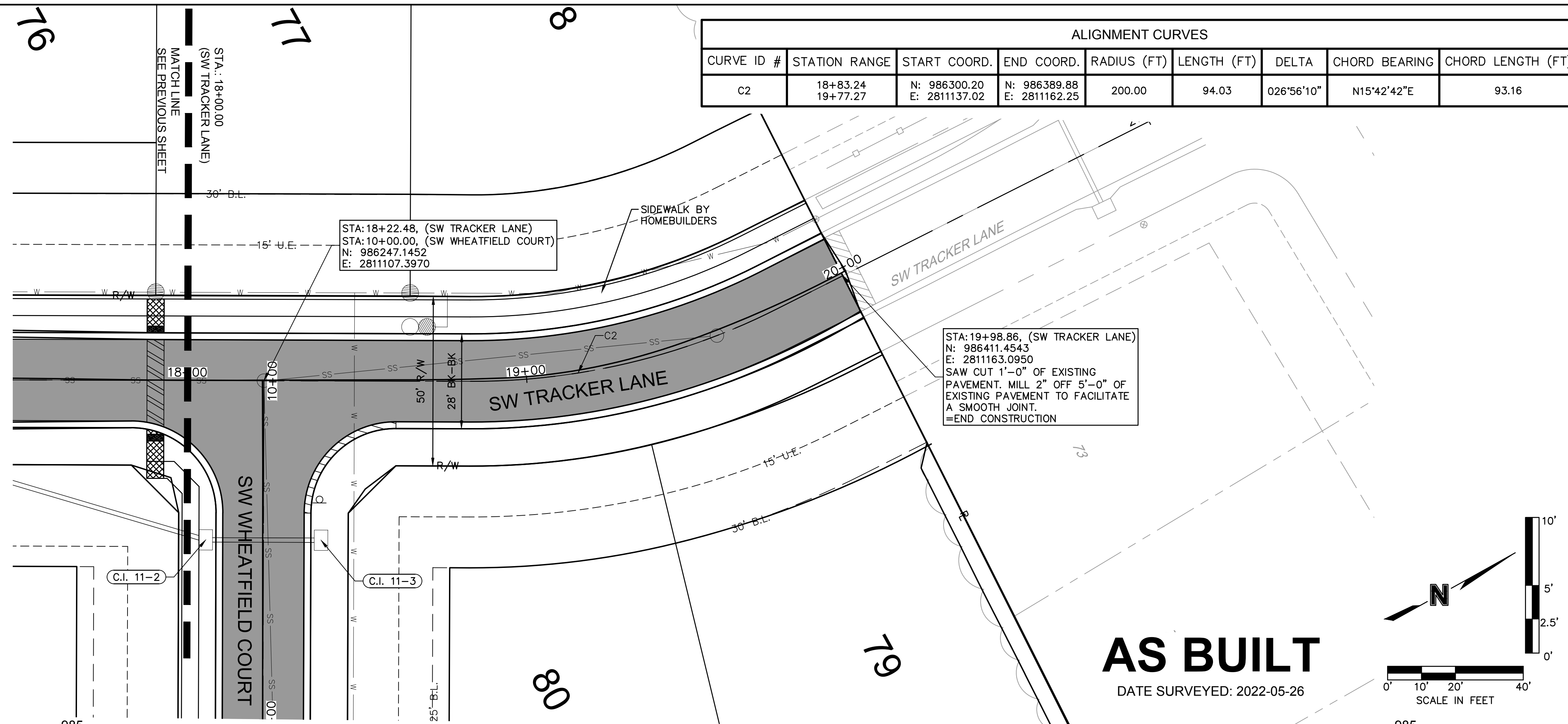
drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET  
C116

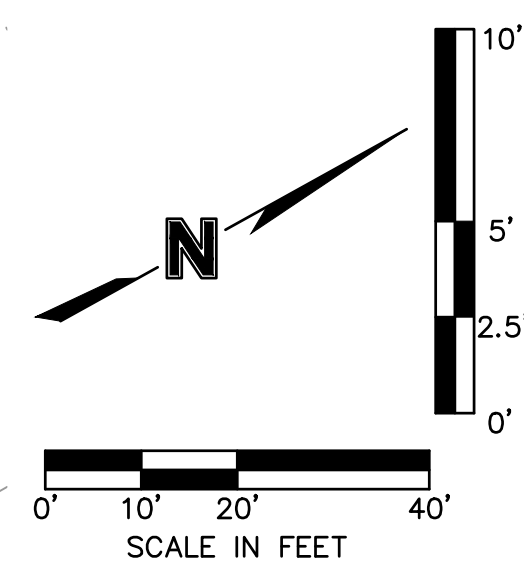


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 USER: ssoylor

LEGEND	
	ADA ACCESS ROUTE
	MILL & OVERLAY
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER



**AS BUILT**  
 DATE SURVEYED: 2022-05-26



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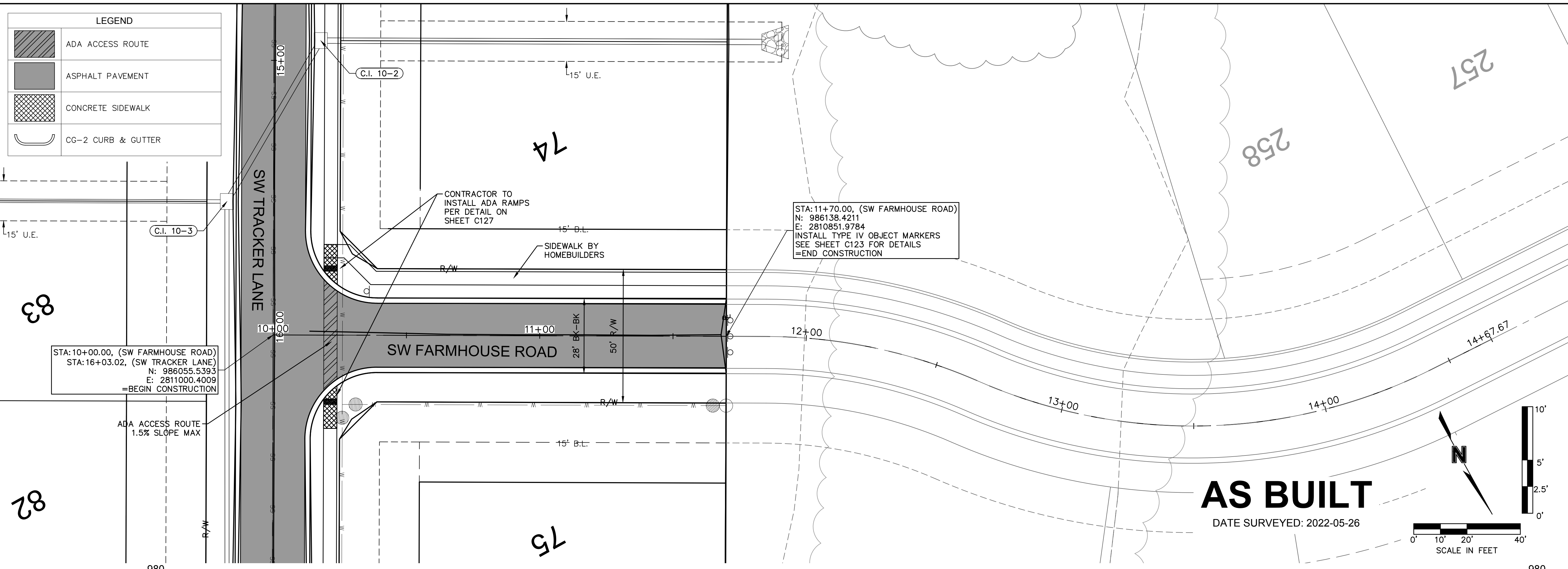


REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	03-23-2021	REVISED PER CITY COMMENTS	
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ROADWAY PLAN & PROFILE (SW TRACKER LANE)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO  
 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: B.M.W./A.A.  
 project no.: B19-4061  
 date: 01-08-2021

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_RP02\_B194061.dwg  
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 C\_PBNDR\_B194061



82

88

75

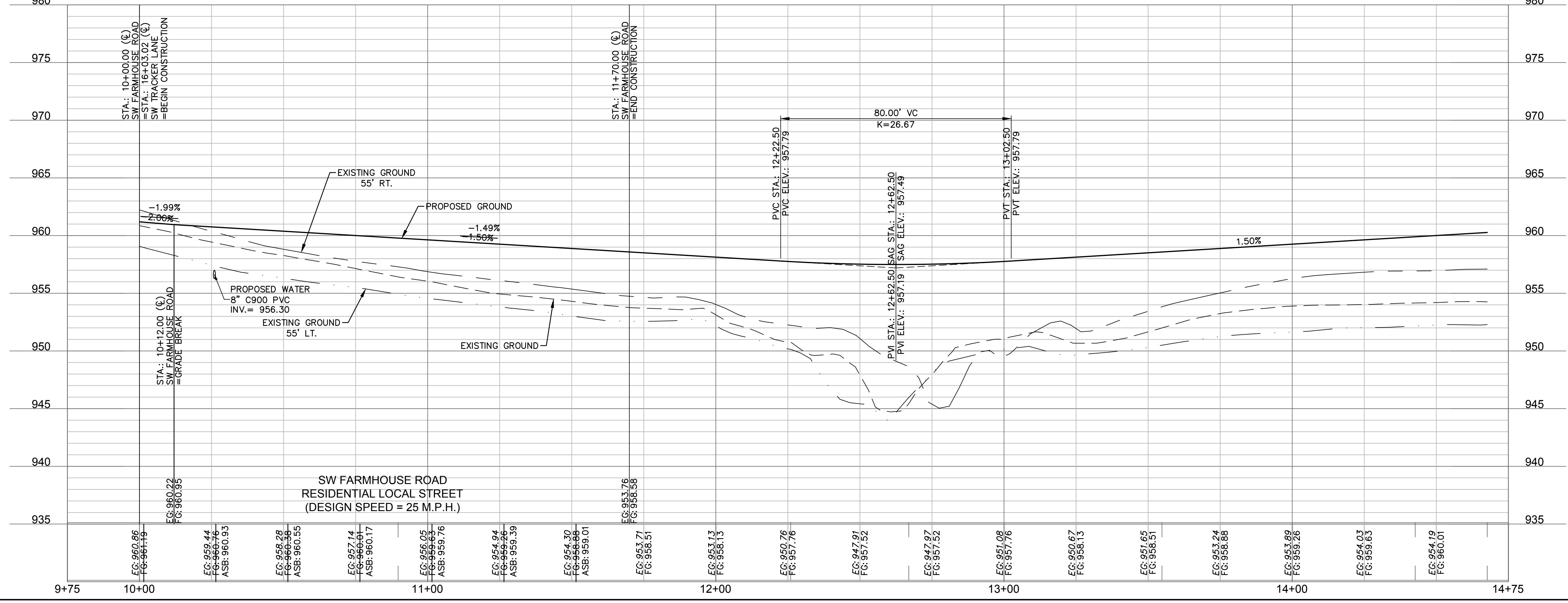
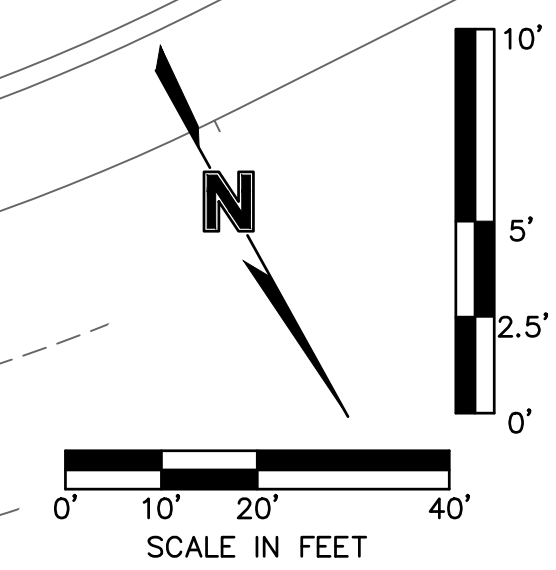
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258

257

**AS BUILT**

DATE SURVEYED: 2022-05-26



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 NUMBER PE-2017000367  
 12/17/22  
 PROFESSIONAL ENGINEER

REVISIONS

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ROADWAY PLAN & PROFILE (SW FARMHOUSE ROAD)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO

2021

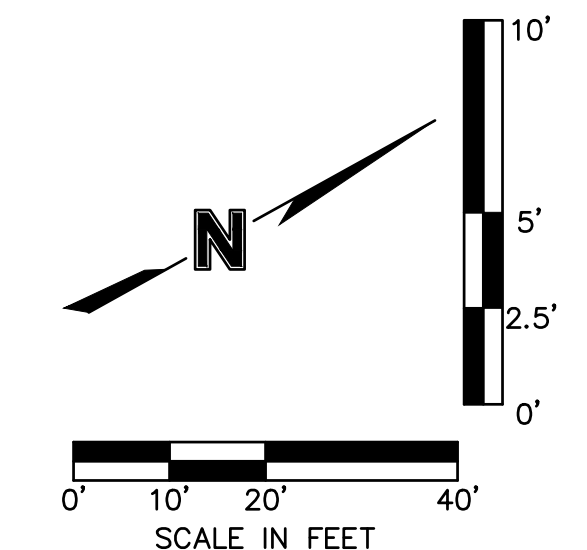
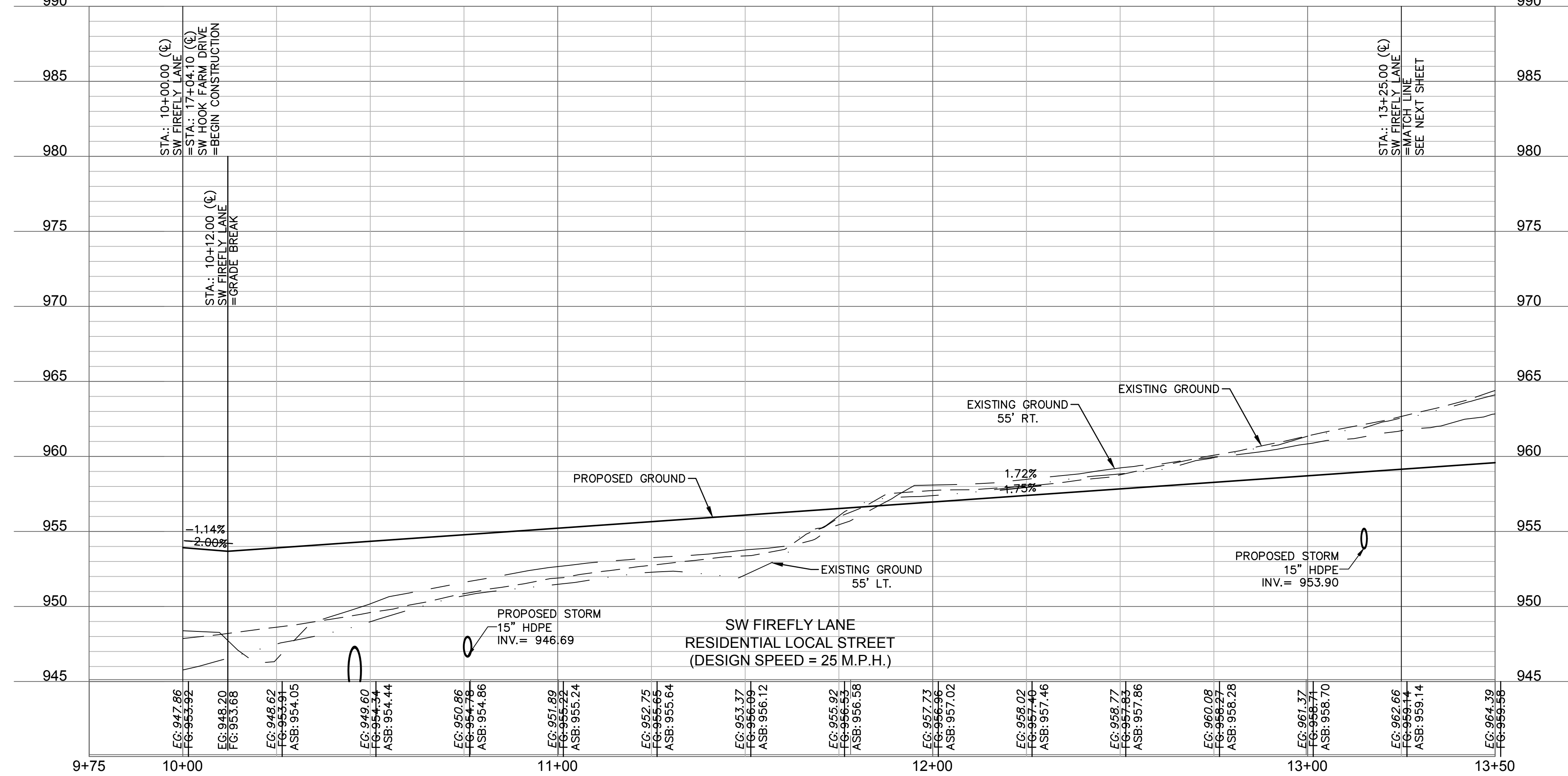
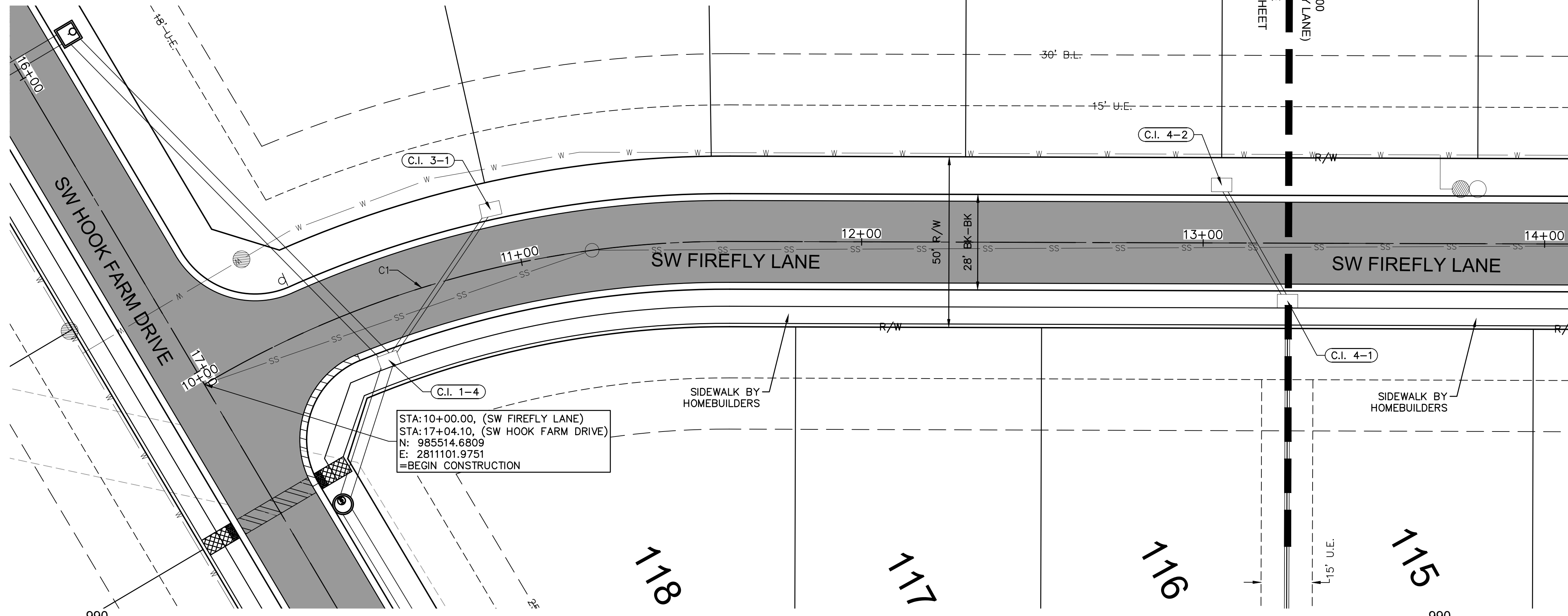
drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET  
 C118

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LEGEND	
	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER

ALIGNMENT CURVES								
CURVE ID #	STATION RANGE	START COORD.	END COORD.	RADIUS (FT)	LENGTH (FT)	DELTA	CHORD BEARING	CHORD LENGTH (FT)
C1	10+39.03 11+61.40	N: 985553.66 E: 2811103.39	N: 985669.56 E: 2811139.92	300.00	122.37	023°22'17"	N17°29'39"E	121.53



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 DATE SURVEYED: 2022-05-26

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STATE OF MISSOURI  
 JULIE ELAINE SELLERS  
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 12/17/22  
 PROFESSIONAL ENGINEER

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3	09-30-2021	CHANGES TO APPROVED PLANS

BY: \_\_\_\_\_

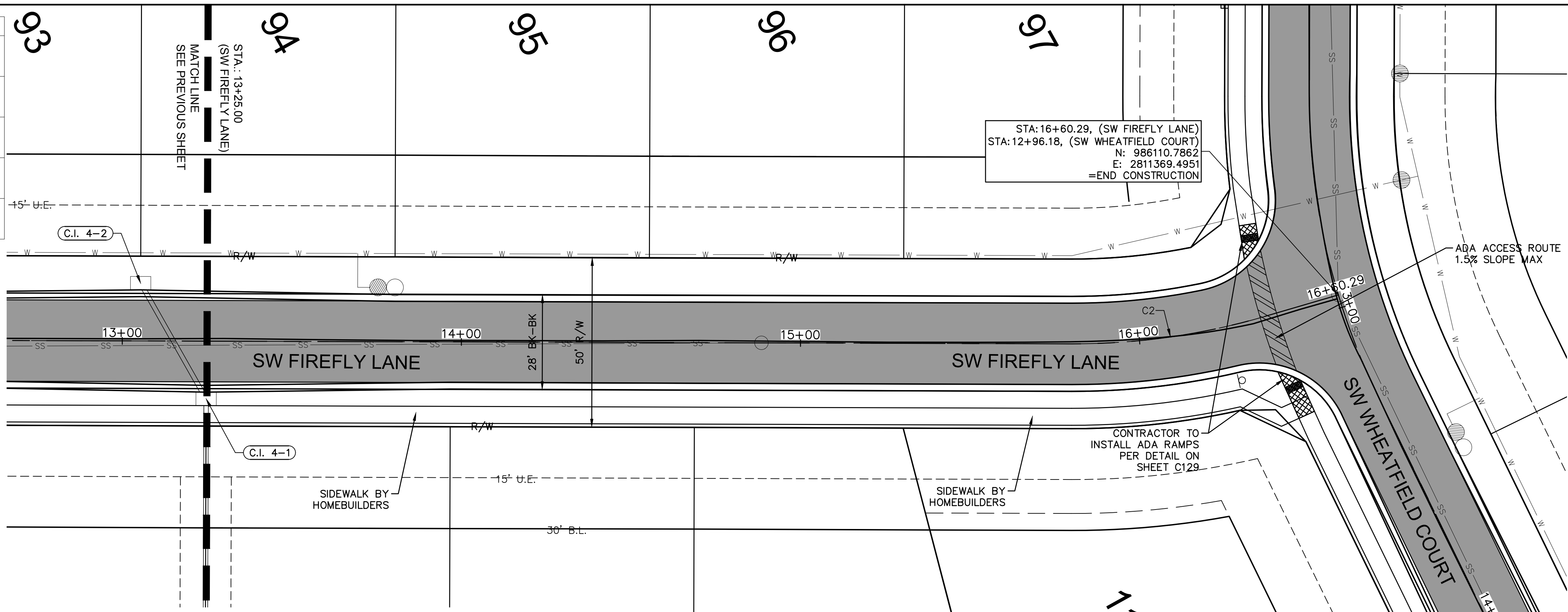
ROADWAY PLAN & PROFILE (SW FIREFLY LANE)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: E.S.  
 project no.: B19-4061  
 date: 01-08-2021

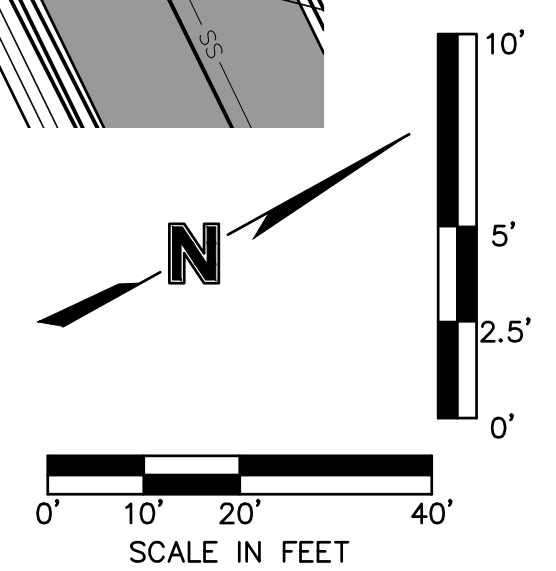
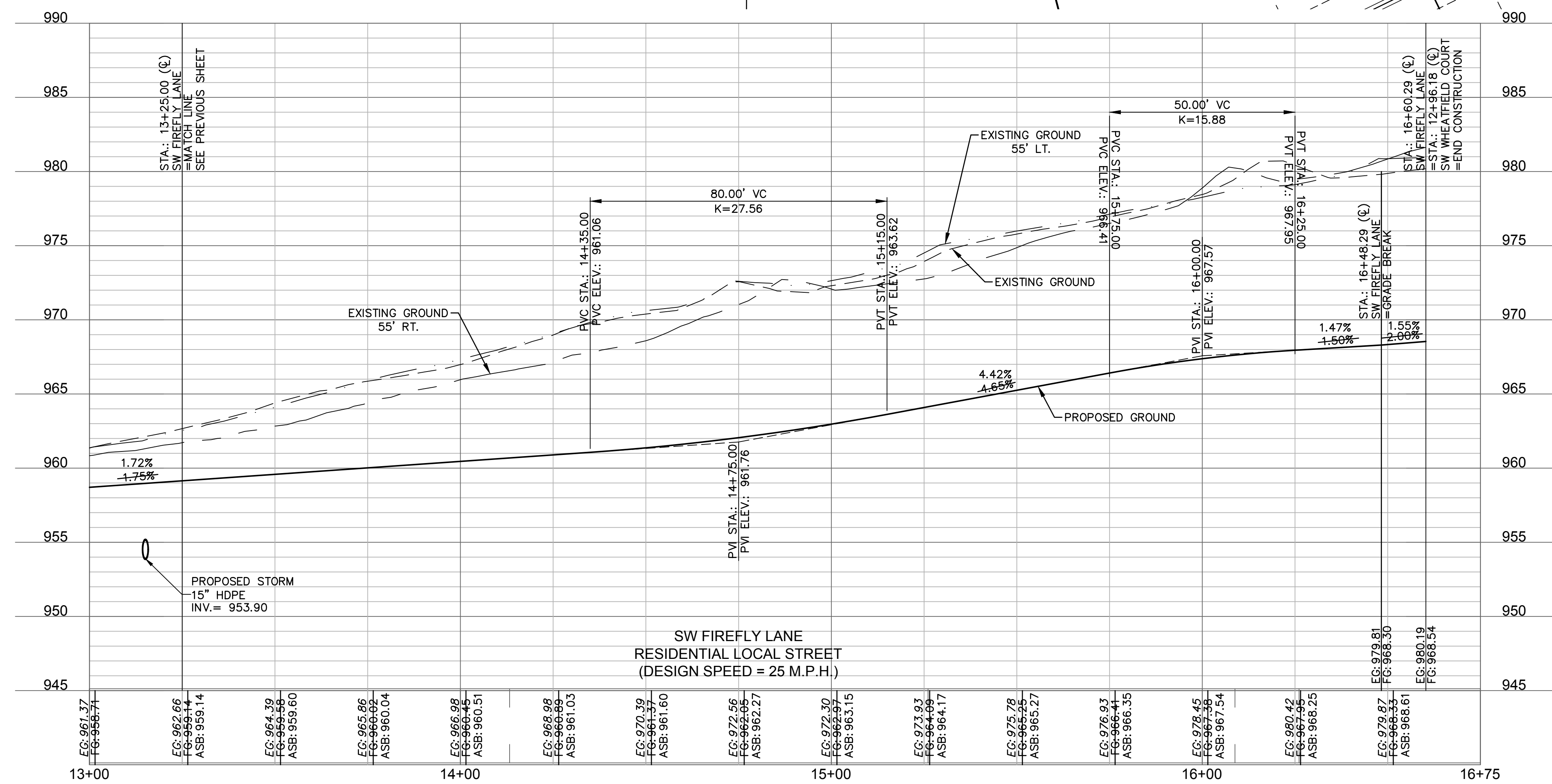
SHEET  
C119

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 USER: ssoylor  
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LEGEND	
	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER



ALIGNMENT CURVES								
CURVE ID #	STATION RANGE	START COORD.	END COORD.	RADIUS (FT)	LENGTH (FT)	DELTA	CHORD BEARING	CHORD LENGTH (FT)
C2	15+80.01 16+37.63	N: 986035.04 E: 2811344.02	N: 986088.68 E: 2811364.52	200.00	57.62	016°30'25"	N20°55'34"E	57.42



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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STATE OF MISSOURI  
**JULIE ELAINE SELLERS**  
 NUMBER PE-2017000367  
 12/17/22  
 PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	03-23-2021	REVISED PER CITY COMMENTS	
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**REVISIONS**

ROADWAY PLAN & PROFILE (SW FIREFLY LANE)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

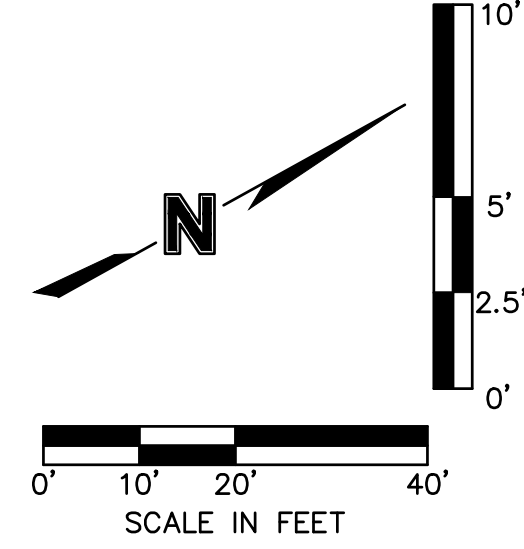
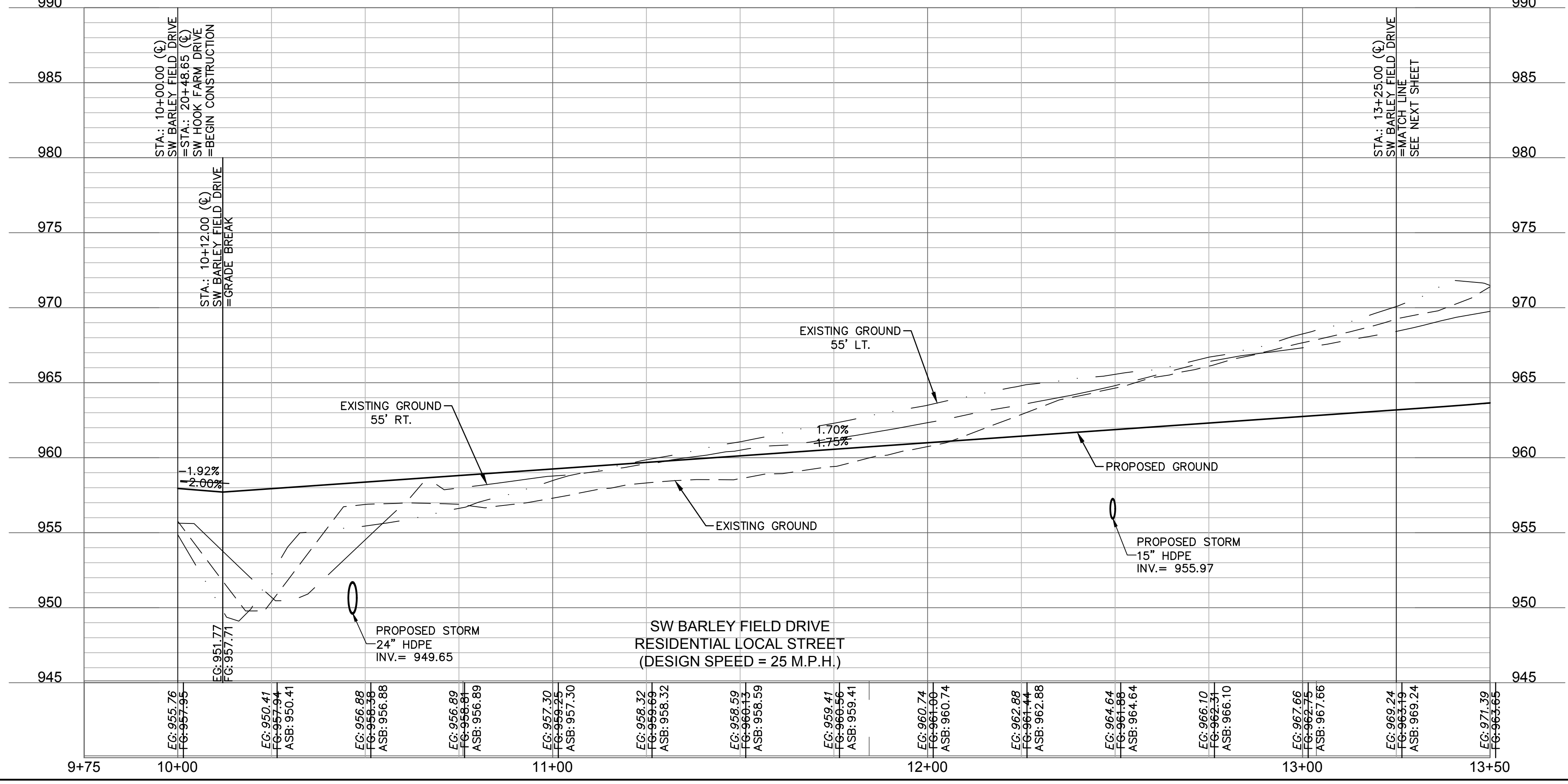
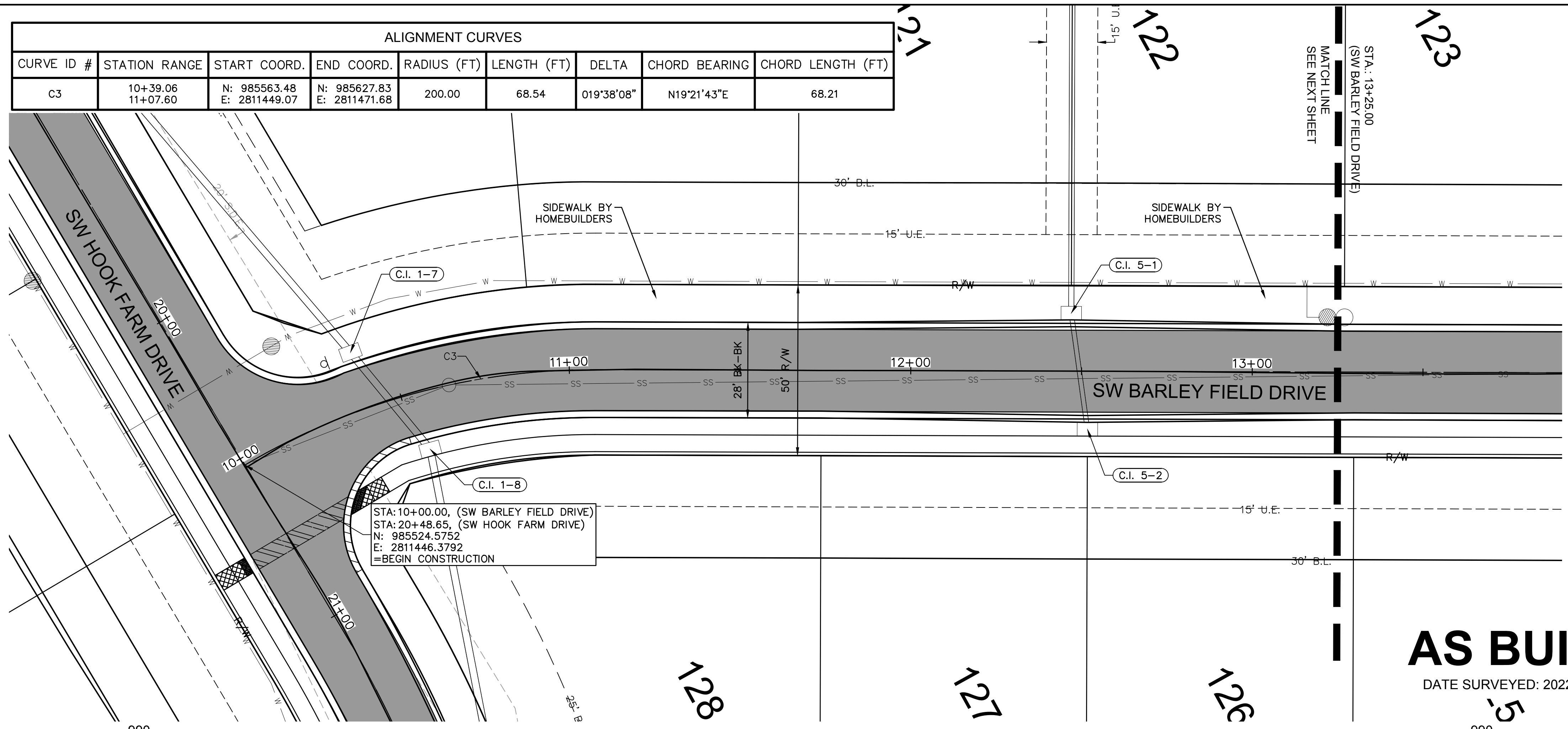
2021

LEE'S SUMMIT, MO

drawn by: B.M.W./A.A. checked by: B.M.W./A.A. designed by: B.M.W./A.A. QA/QC by: B.M.W./A.A. project no.: B19-4061 date: 01-08-2021	<p><b>SHEET</b> C120</p>
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LEGEND	
	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER
	CG-2 DRY CURB & GUTTER



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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JULIE ELAINE SELLERS  
 NUMBER PE-2017000367  
 12/7/22  
 PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
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ROADWAY PLAN & PROFILE (SW BARLEY FIELD DRIVE)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO

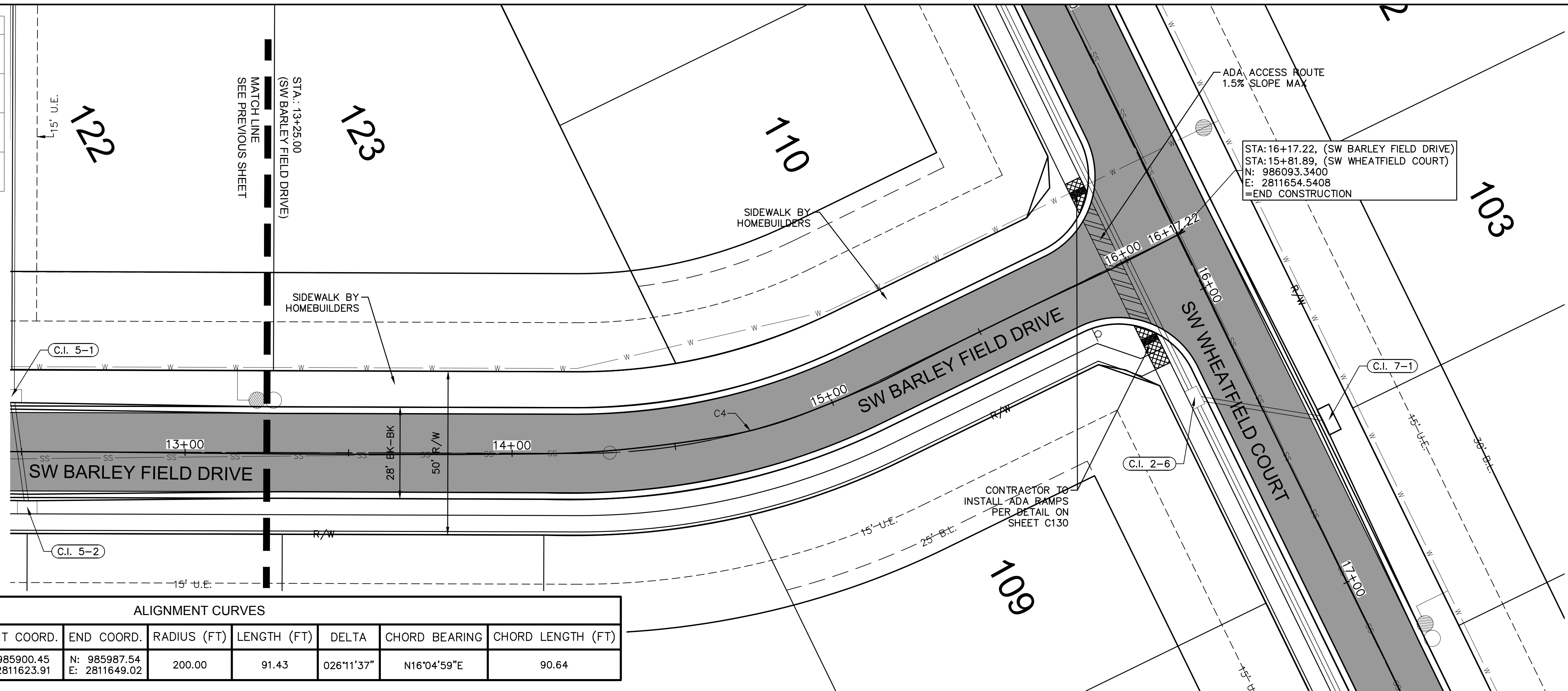
2021

REVISIONS

drawn by:	B.M.W./A.A.
checked by:	B.M.W./A.A.
designed by:	B.M.W./A.A.
QA/QC by:	J.E.S.
project no.:	B19-4061
date:	01-08-2021

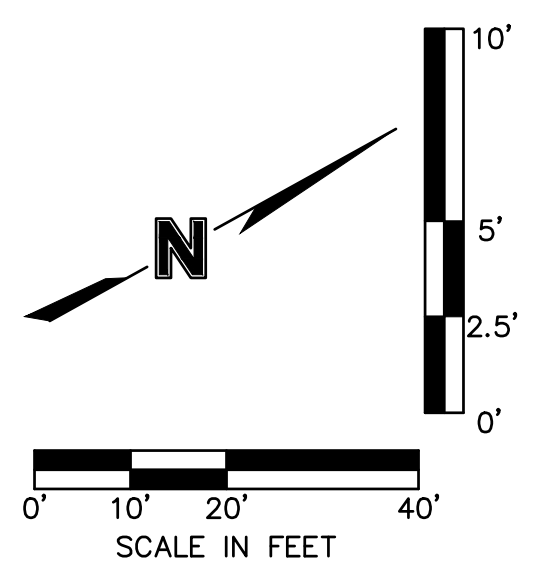
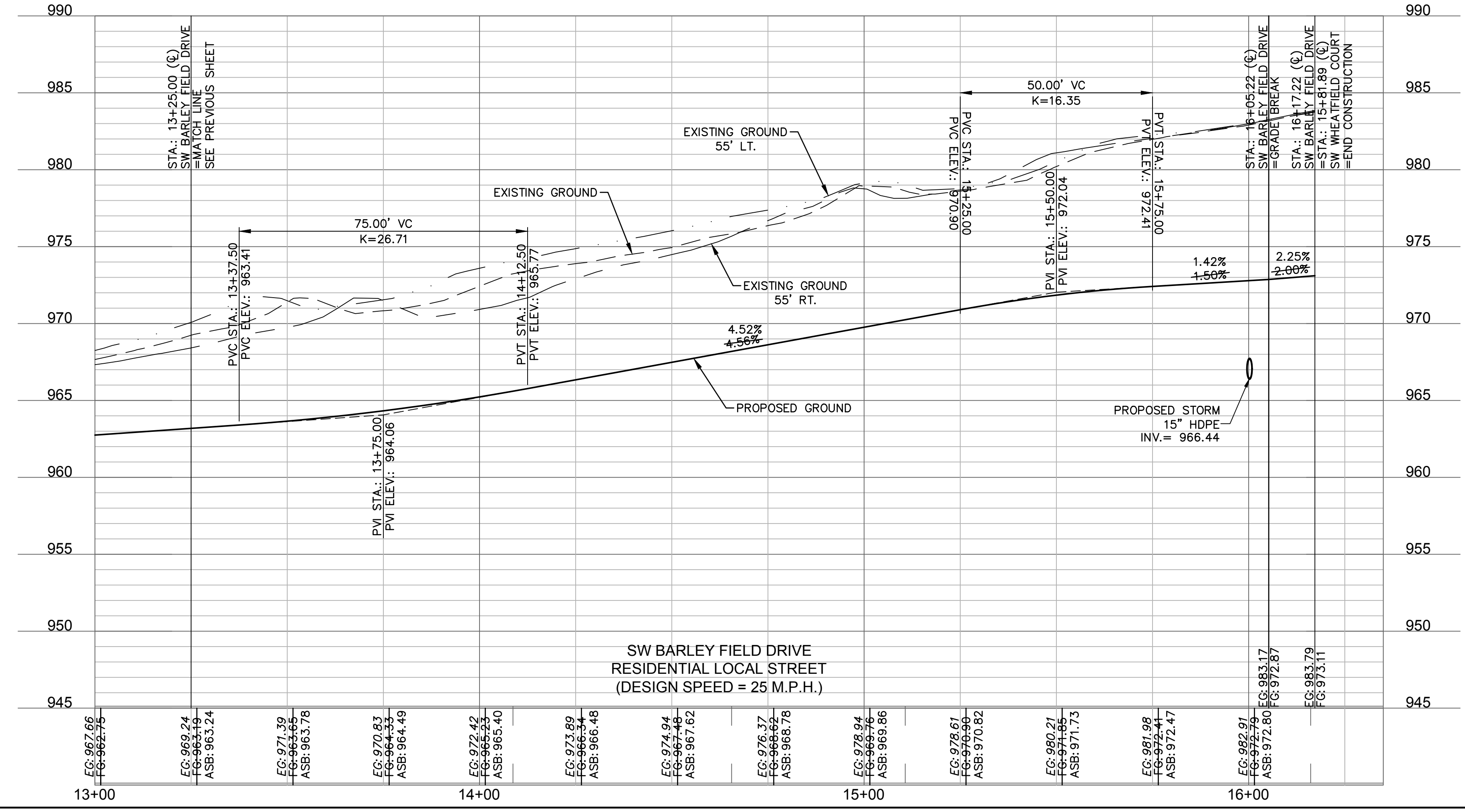
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 USER: ssoylor  
 C\_PUTIL\_B194061 C\_PBASE\_B194061 C\_PSDIRF\_B194061 C\_PATT\_B194061

LEGEND	
	ADA ACCESS ROUTE
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CG-2 CURB & GUTTER



STA: 16+17.22, (SW BARLEY FIELD DRIVE)  
 STA: 15+81.89, (SW WHEATFIELD COURT)  
 N: 986093.3400  
 E: 2811654.5408  
 =END CONSTRUCTION

ALIGNMENT CURVES								
CURVE ID #	STATION RANGE	START COORD.	END COORD.	RADIUS (FT)	LENGTH (FT)	DELTA	CHORD BEARING	CHORD LENGTH (FT)
C4	14+19.84 15+11.28	N: 985900.45 E: 2811623.91	N: 985987.54 E: 2811649.02	200.00	91.43	026°11'37"	N16°04'59"E	90.64



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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STATE OF MISSOURI  
 JULIE ELAINE SELLERS  
 NUMBER PE-2017000367  
 12/17/22  
 PROFESSIONAL ENGINEER

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**REVISIONS**

ROADWAY PLAN & PROFILE (SW BARLEY FIELD DRIVE)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

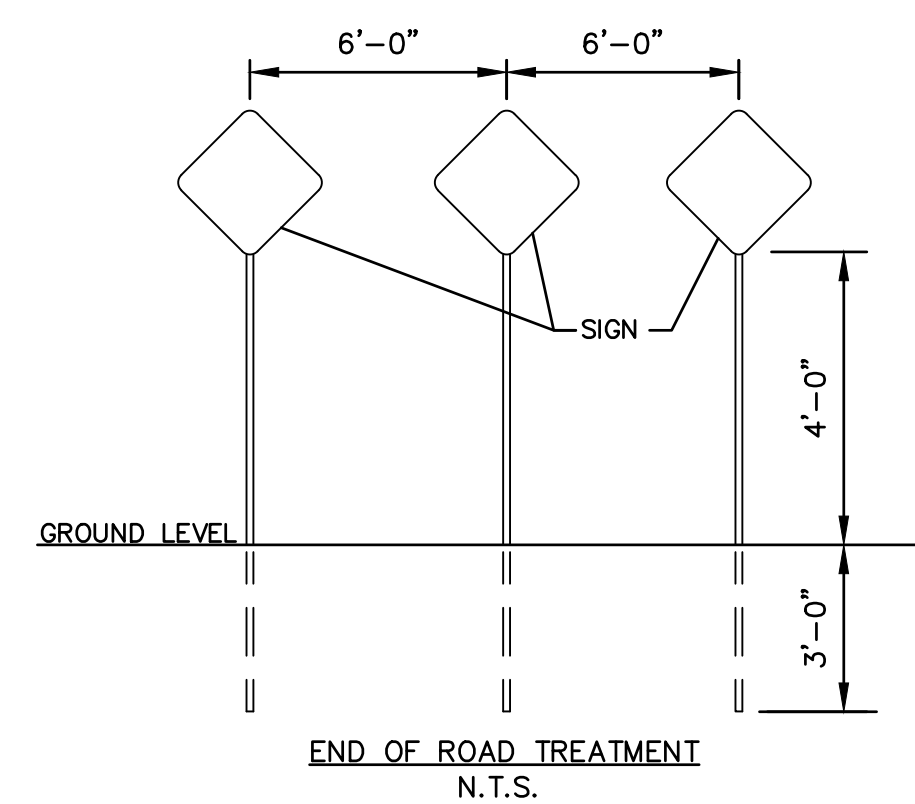
2021

LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: B.M.W./A.A.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET  
C122

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 C\_XBASE\_B194061



OBJECT MARKERS (TYPE OM4-3, 18"x18") ARE TO BE INSTALLED 2' FROM END OF PROPOSED PAVEMENT.

EAGLE CREEK  
 FIRST PLAT

TRACT M

REMOVE EXISTING  
 TYPE IV OBJECT  
 MARKERS

INSTALL TYPE IV  
 OBJECT MARKERS.

INSTALL SW FARMHOUSE  
 ROAD AND SW TRACKER  
 LANE STREET NAME SIGNS  
 WITH STOP SIGN.

INSTALL SW WHEATFIELD  
 COURT AND SW FIREFLY  
 LANE STREET NAME SIGNS  
 WITH STOP SIGN.

INSTALL SW WHEATFIELD  
 COURT AND SW BARLEY  
 FIELD DRIVE STREET NAME  
 SIGNS WITH STOP SIGN.

INSTALL SW HOOK FARM DRIVE  
 AND SW TRACKER LANE  
 STREET NAME SIGNS  
 WITH STOP SIGN.

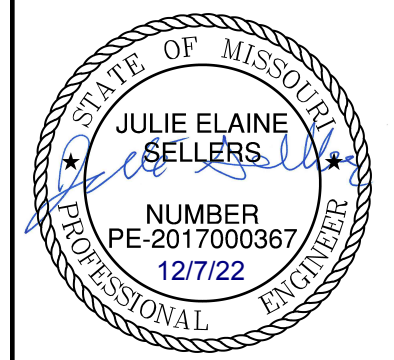
INSTALL SW HOOK FARM  
 DRIVE AND SW FIREFLY  
 LANE STREET NAME SIGNS  
 WITH STOP SIGN.

INSTALL SW HOOK FARM  
 DRIVE AND SW BARLEY  
 FIELD DRIVE STREET NAME  
 SIGNS WITH STOP SIGN.

REMOVE EXISTING  
 TYPE IV OBJECT  
 MARKERS

HOOK FARMS  
 1ST PLAT

**NOT AS-BUILT**



REV. NO.	DATE	REVISIONS DESCRIPTION
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3	09-30-2021	CHANGES TO APPROVED PLANS

TRAFFIC CONTROL PLAN  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO  
 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET  
 C123

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REVISIONS

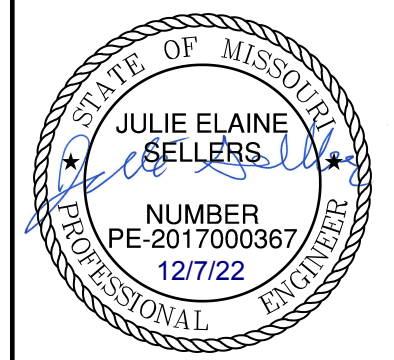
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 USER: ssoy/or

- 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. 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.
  4. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
  5. CROSS SLOPE FOR RAMPS AND SIDEWALK SHALL NOT EXCEED 2%.
  6. 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.
  7. 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.
  8. 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
	CG-2 DRY CURB & GUTTER
	ADA RAMP (CONSTRUCTED BY CONTRACTOR)

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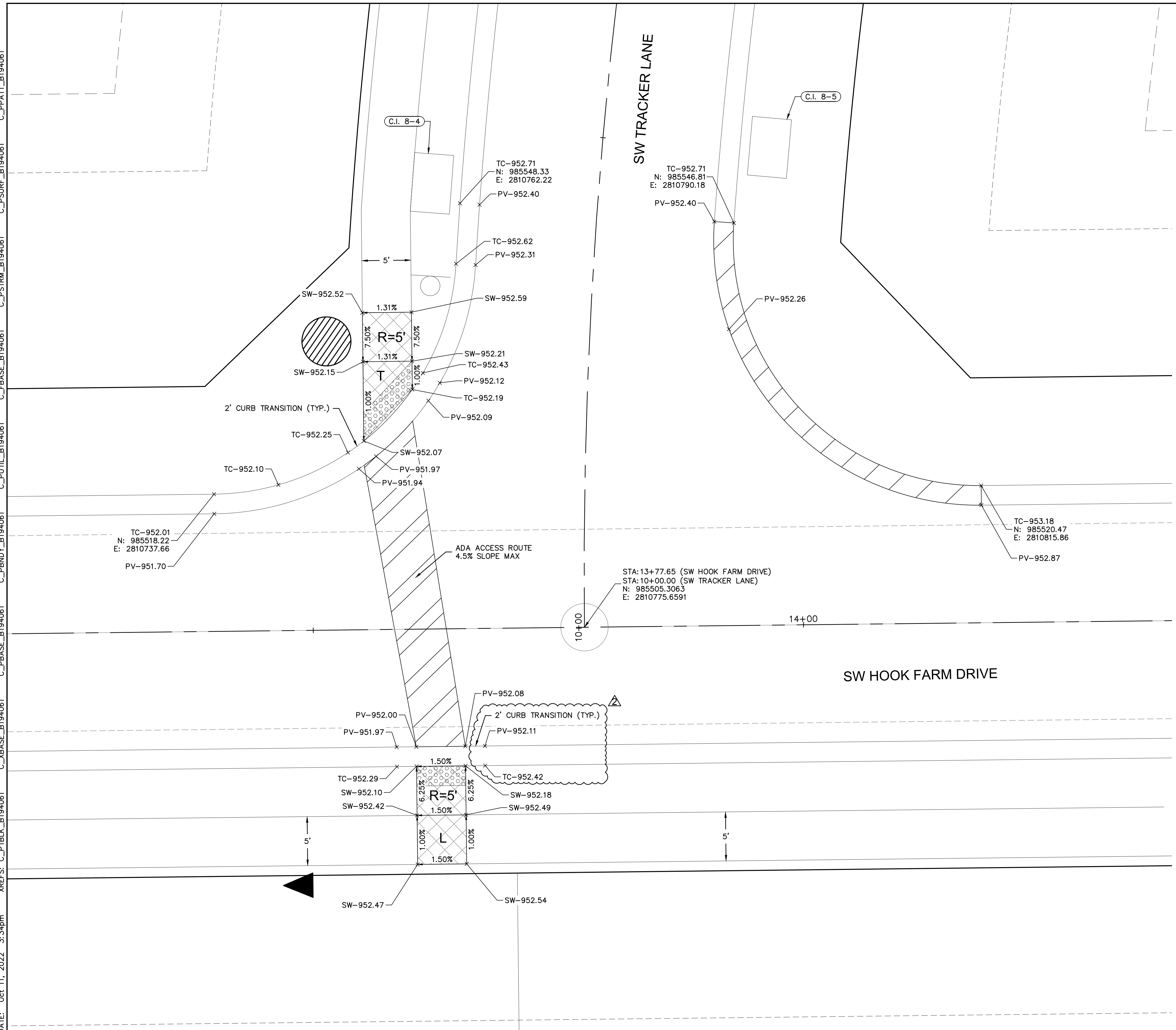
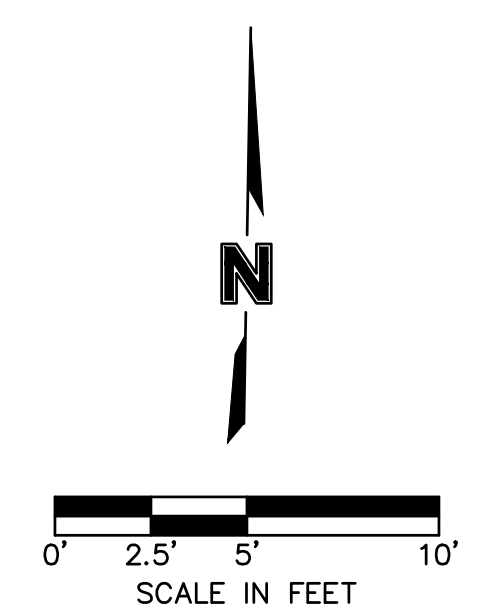
SW TRACKER LANE & SW HOOK FARM DRIVE  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

LEE'S SUMMIT, MO 2021

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 checked by: B.M.W./A.A.  
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 QA/QC by: B.M.W./A.A.  
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**NOT AS-BUILT**



REVISIONS



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CURB DATA:  
 R=25.00'  
 $\Delta=083^{\circ}23'38''$   
 L=36.39'  
 $CB=N46^{\circ}39'27''E$   
 CH=33.26'

SW HOOK FARM DRIVE

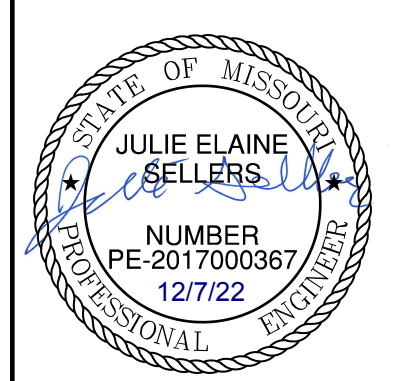
SW FIREFLY LANE

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  4. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
  5. CROSS SLOPE FOR RAMPS AND SIDEWALK SHALL NOT EXCEED 2%.
  6. 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.
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  8. 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
	CG-2 DRY CURB & GUTTER
	ADA RAMP (CONSTRUCTED BY CONTRACTOR)

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1	03-23-2021	REVISED PER CITY COMMENTS
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SW FIREFLY LANE & SW HOOK FARM DRIVE  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

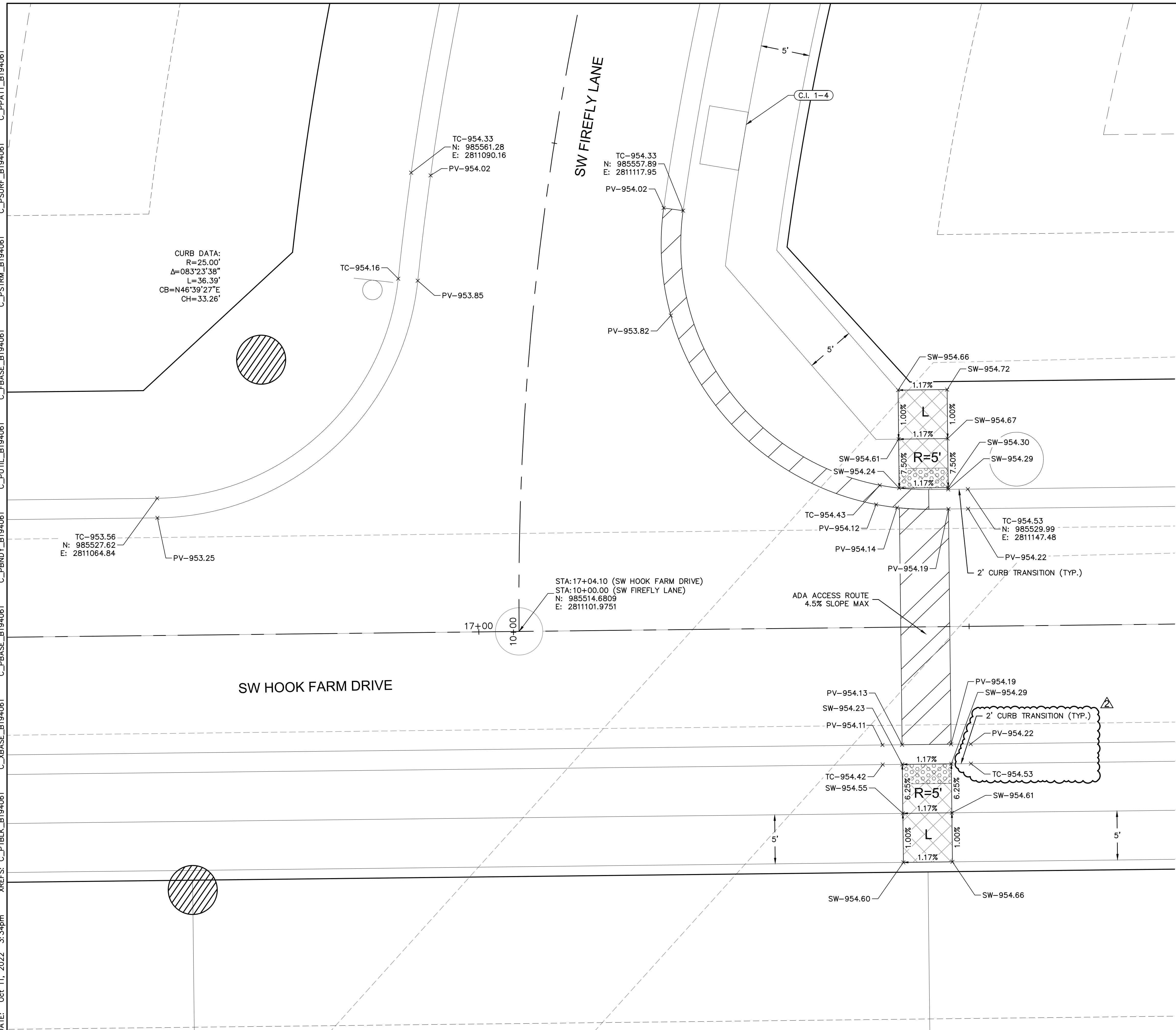
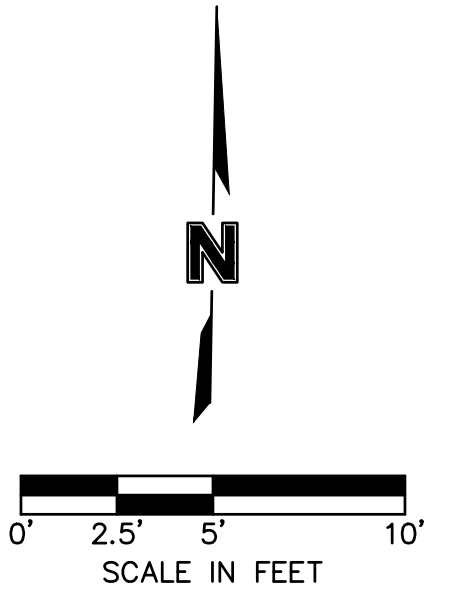
LEE'S SUMMIT, MO

2021

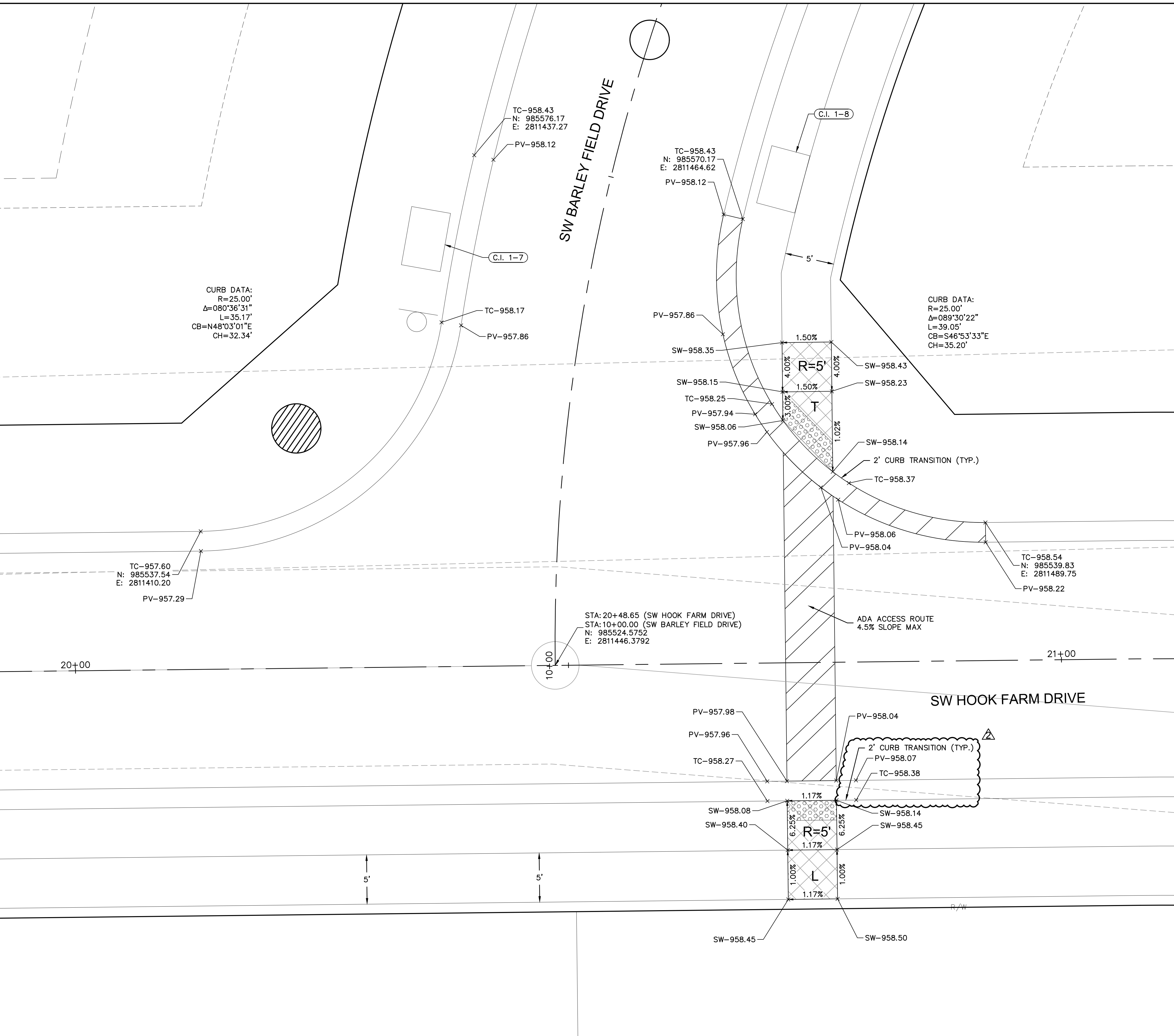
REVISIONS

SHEET C125

**NOT AS-BUILT**



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CURB DATA:  
 R=25.00'  
 $\Delta=080^{\circ}36'31''$   
 L=35.17'  
 CB=N48^{\circ}03'01''E  
 CH=32.34'

CURB DATA:  
 R=25.00'  
 $\Delta=089^{\circ}30'22''$   
 L=39.05'  
 CB=S46^{\circ}53'33''E  
 CH=35.20'

STA: 20+48.65 (SW HOOK FARM DRIVE)  
 STA: 10+00.00 (SW BARLEY FIELD DRIVE)  
 N: 985524.5752  
 E: 2811446.3792

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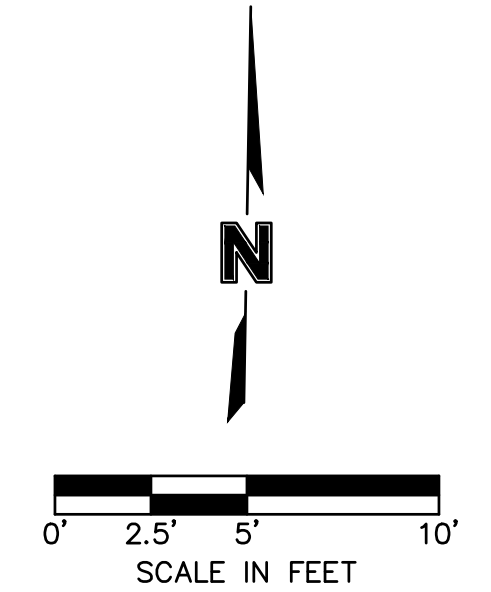


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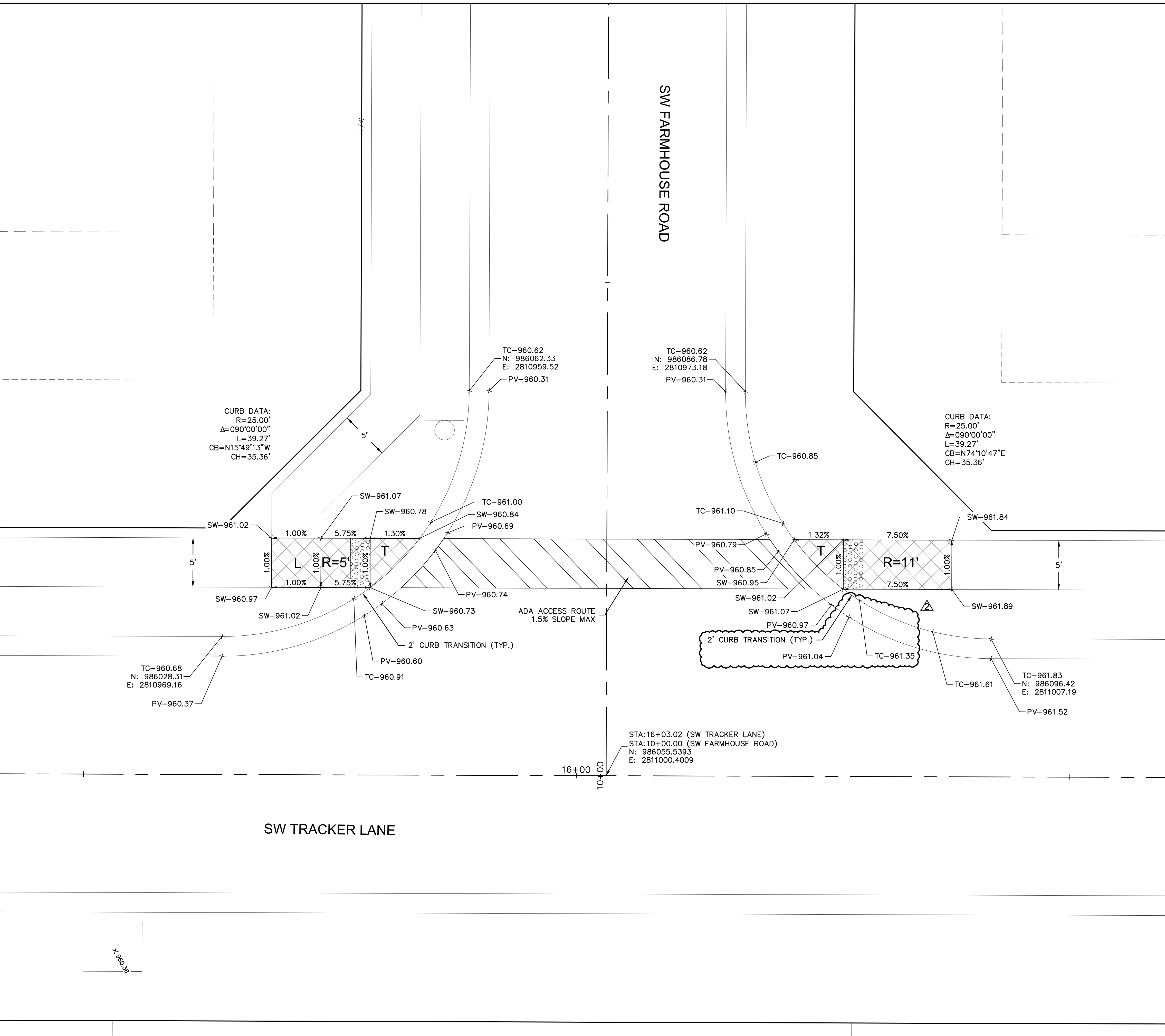
SW BARLEY FIELD DRIVE & SW HOOK FARM DRIVE  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO  
 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

**NOT AS-BUILT**



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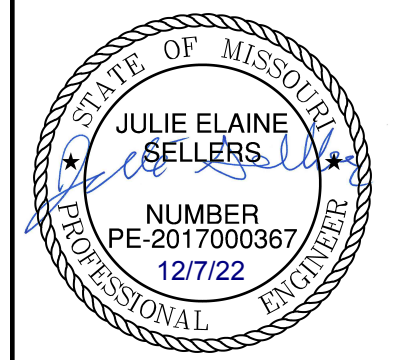


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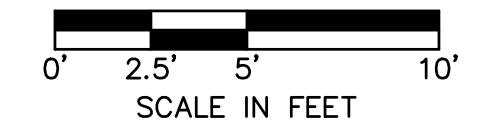
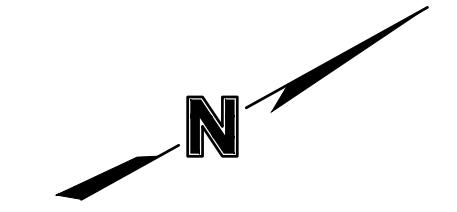
HOOK FARMS  
 SECOND PLAT

2021

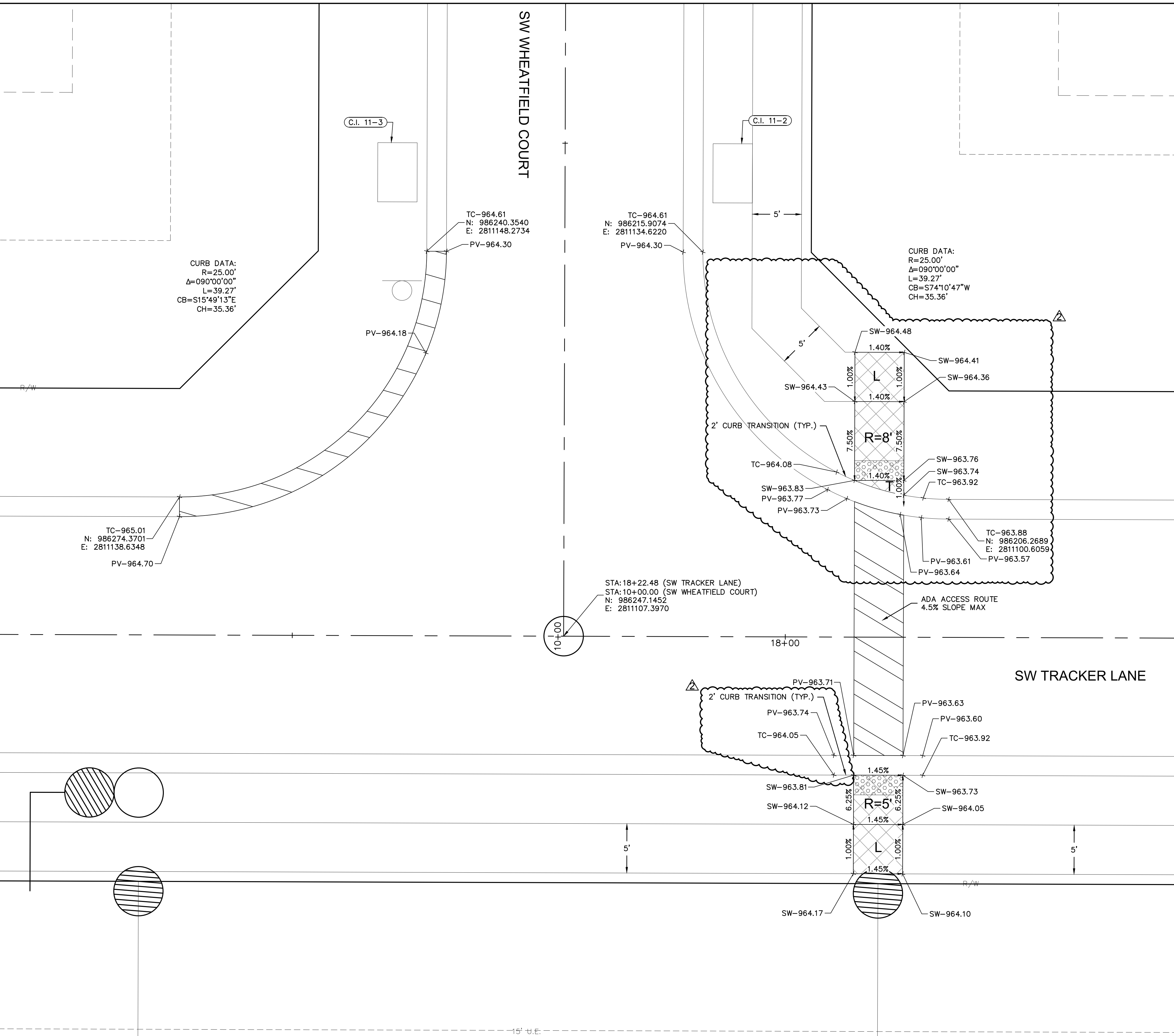
LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: J.E.S.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
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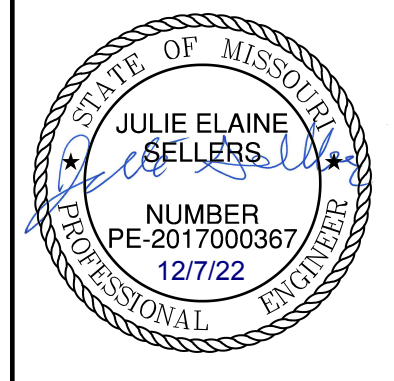
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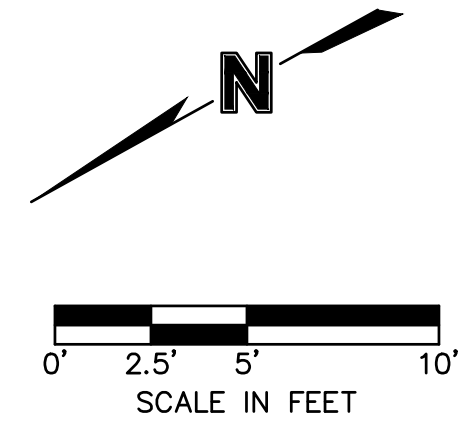


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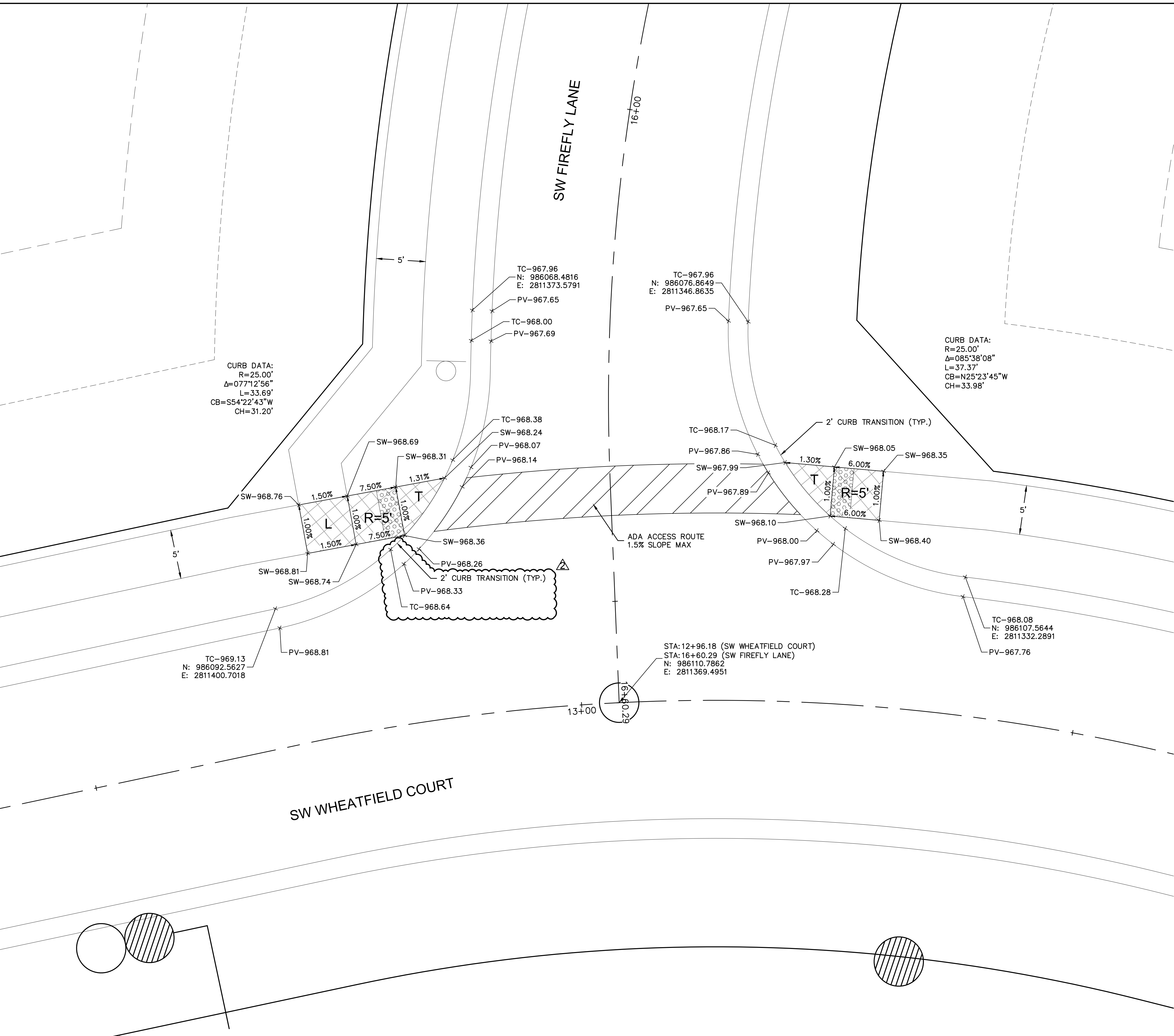
SW WHEATFIELD COURT & SW TRACKER LANE  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 2021  
 LEE'S SUMMIT, MO

SHEET C128

**NOT AS-BUILT**



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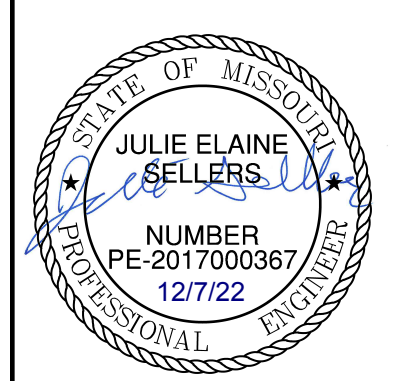


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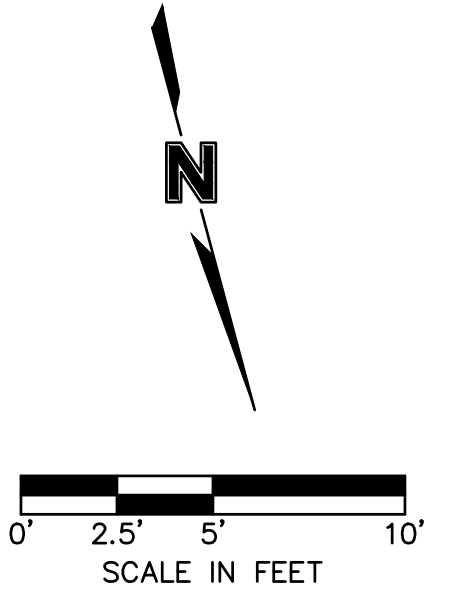


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SW FIREFLY LANE & SW WHEATFIELD COURT STREET & STORM SEWER PLANS	BY	2021
HOOK FARMS SECOND PLAT		
LEE'S SUMMIT, MO		

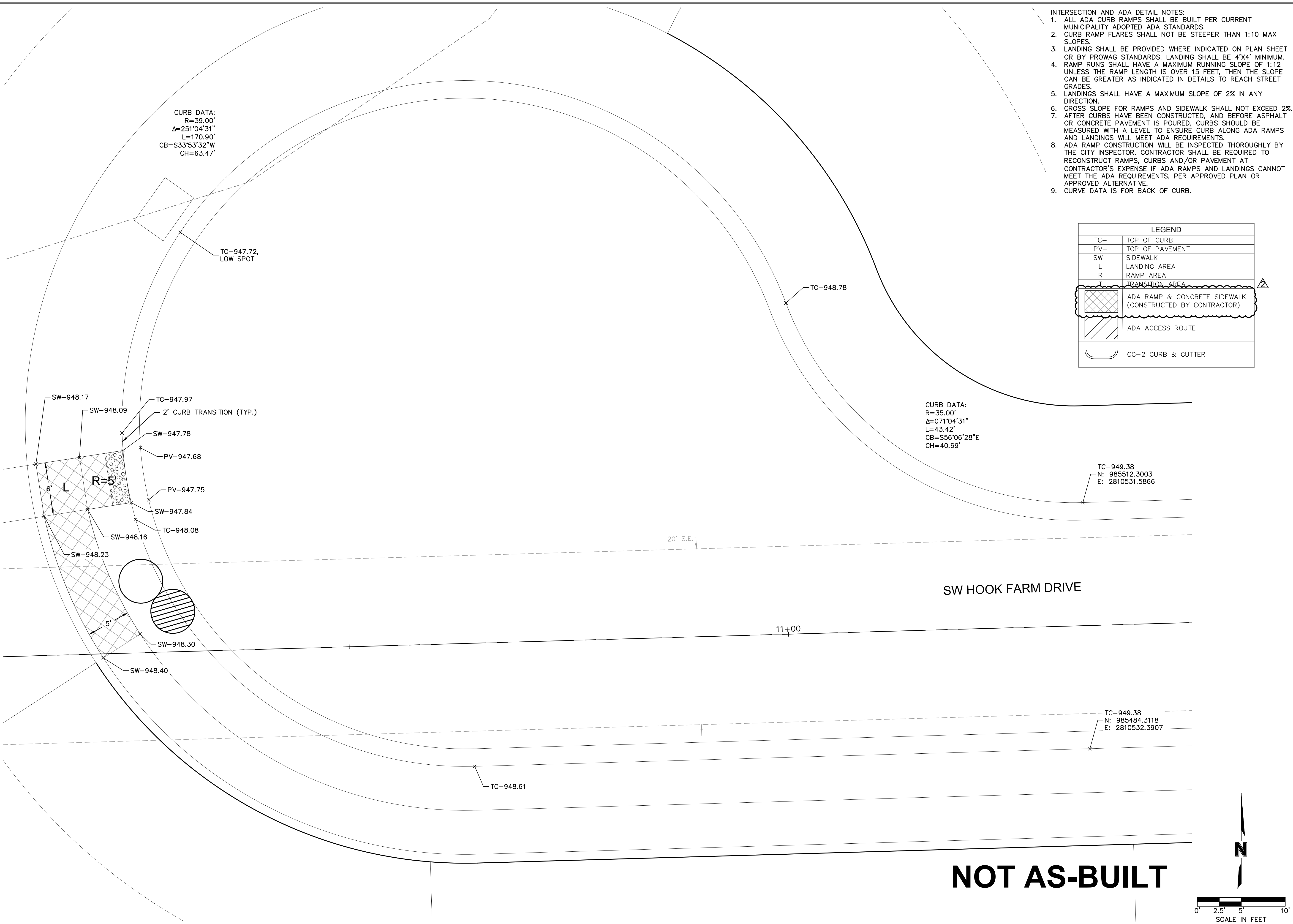
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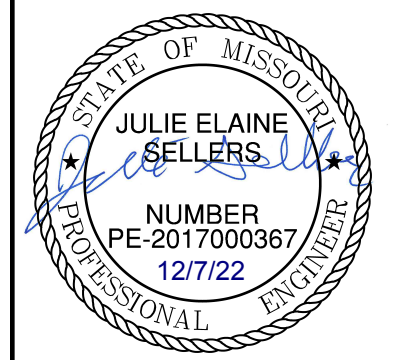


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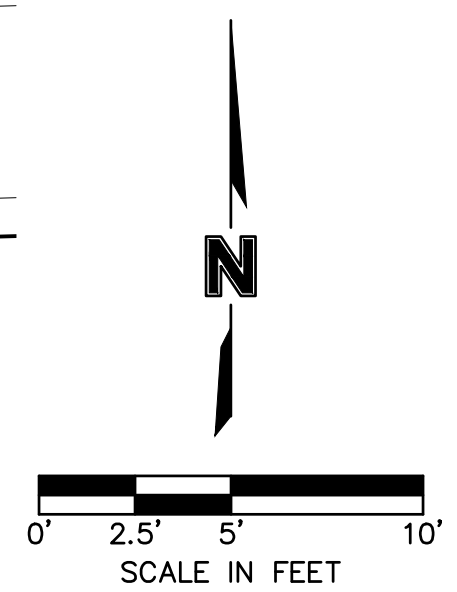
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HOOK FARMS SECOND PLAT

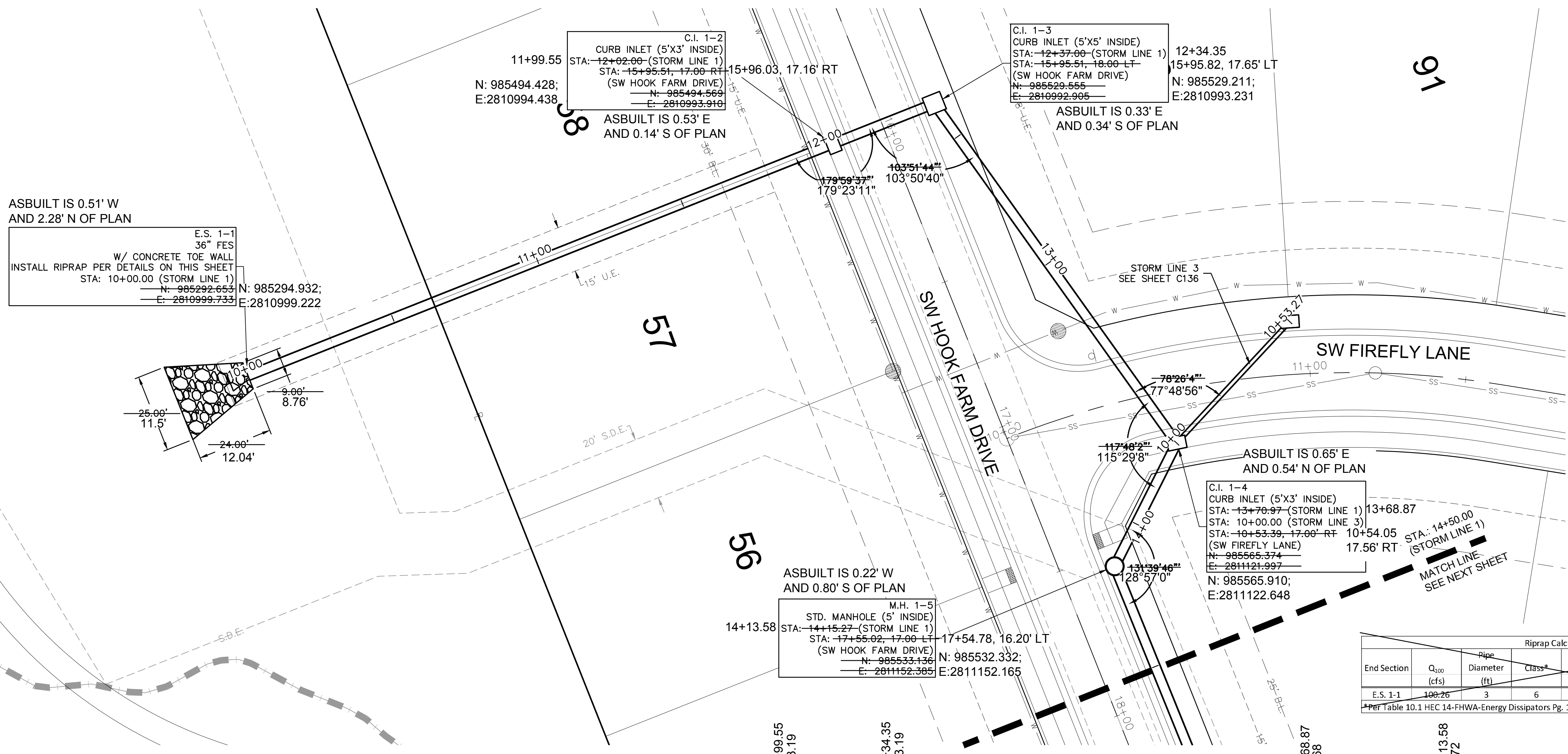
LEE'S SUMMIT, MO 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
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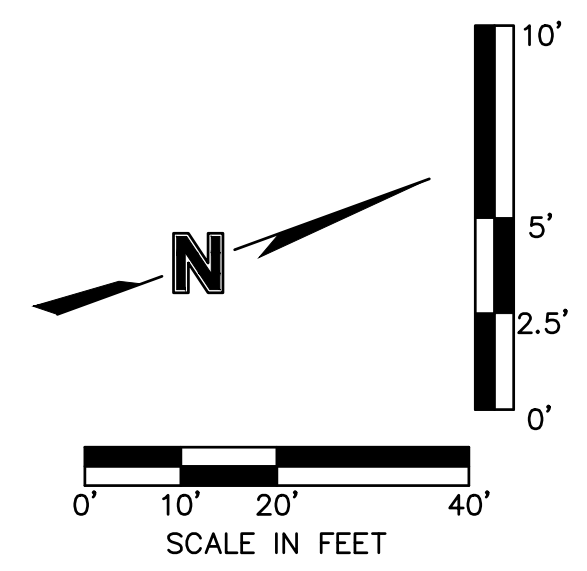
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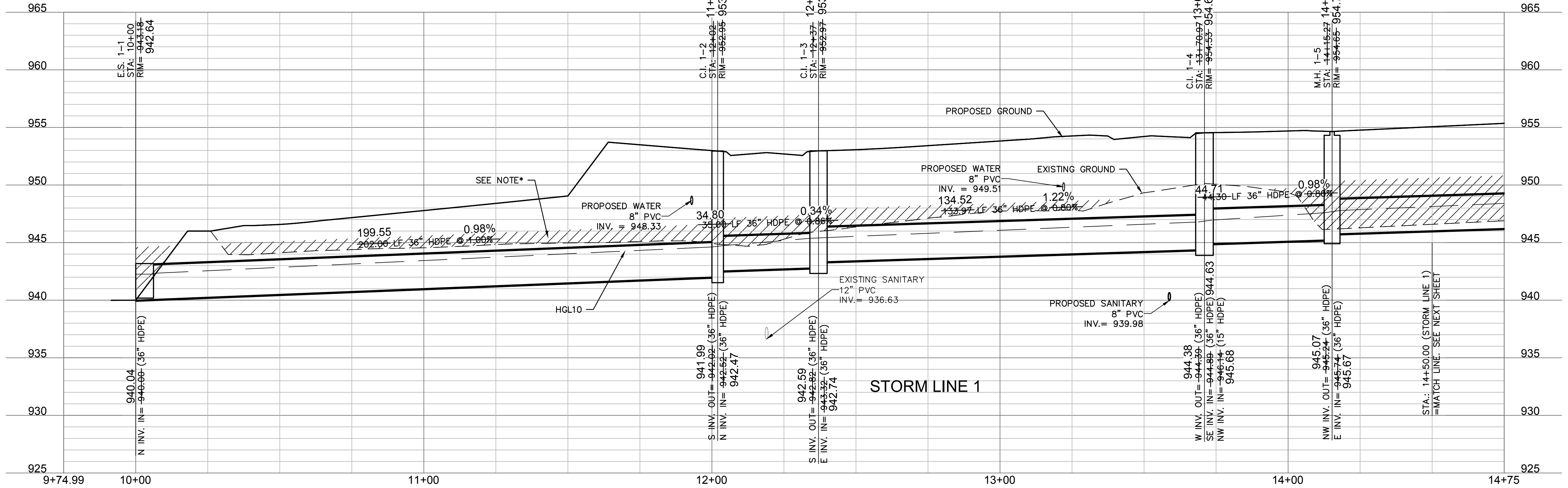


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 DATE SURVEYED: 2022-05-26

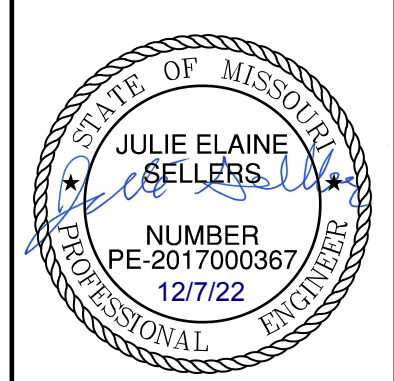


End Section	Q <sub>100</sub> (cfs)	Riprap Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (SY)
E.S. 1-1	100.26	3	6	22	24	3.67	45.3

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



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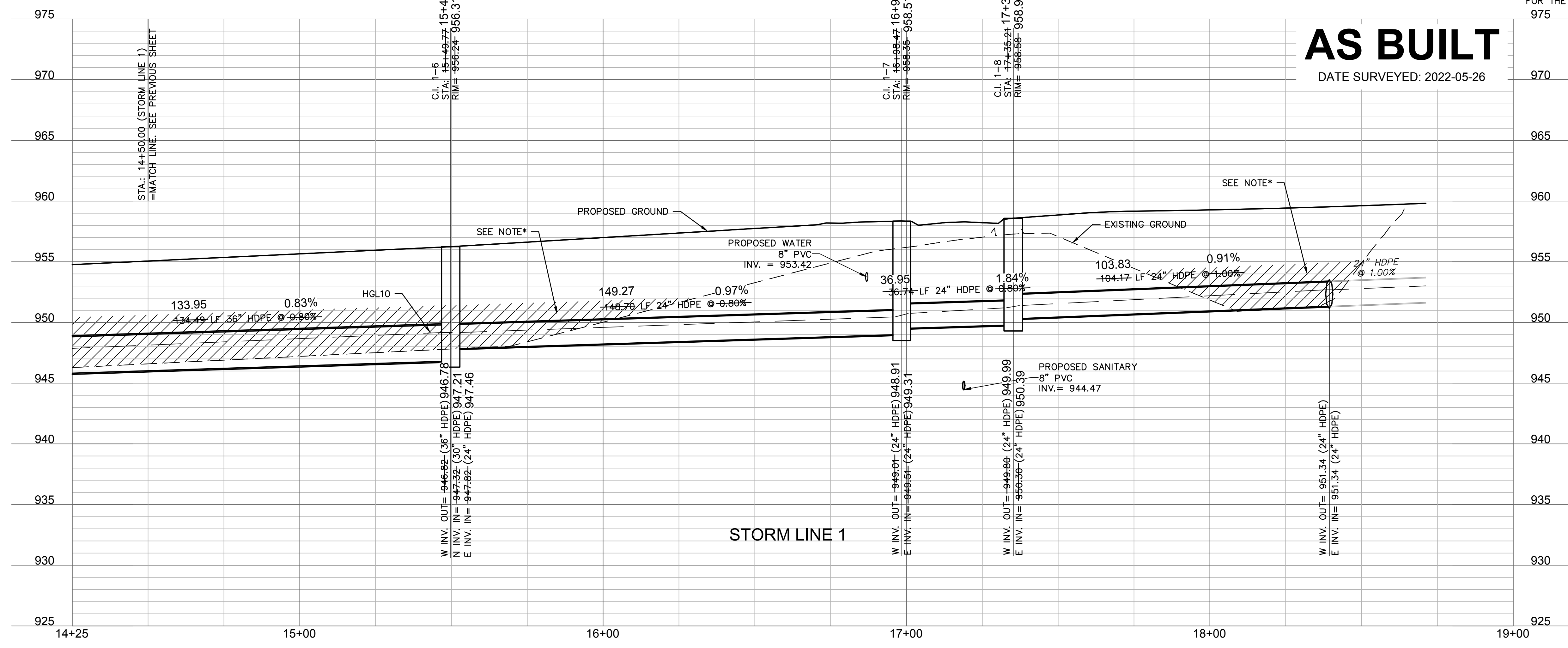
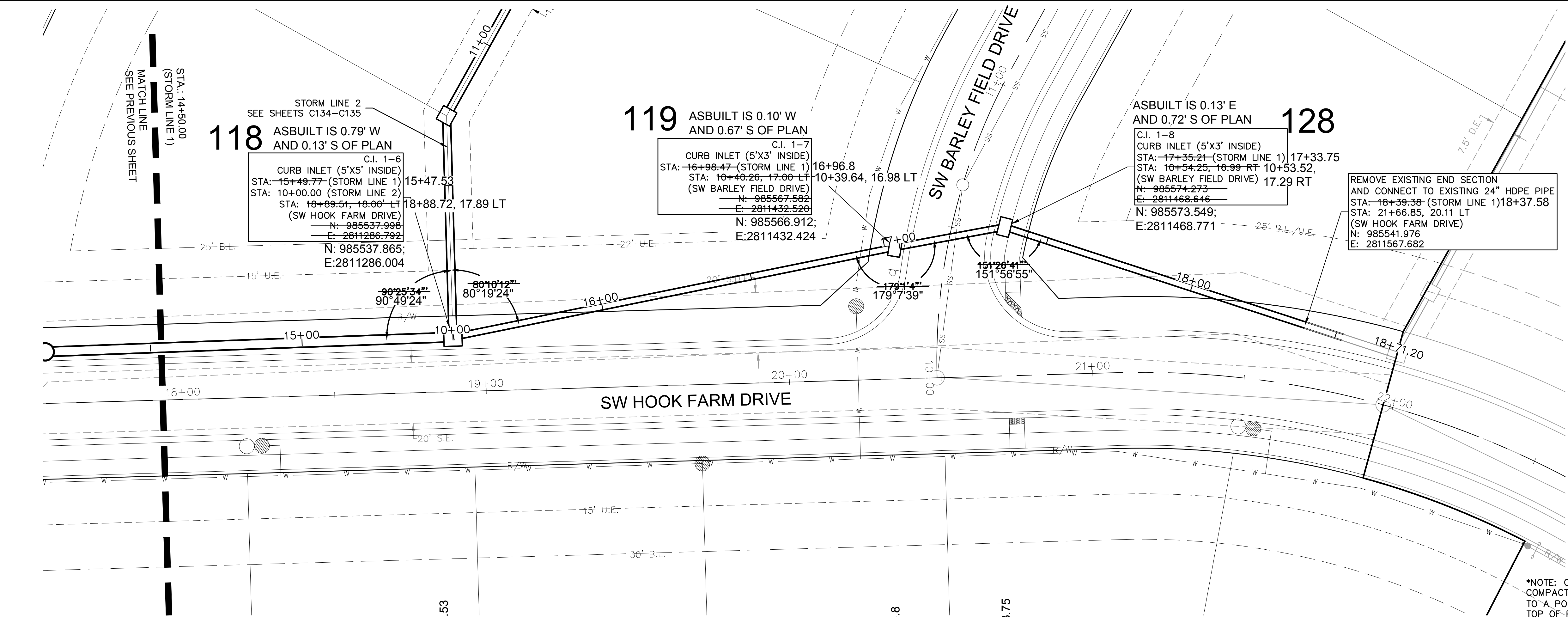


REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

STORM SEWER PLAN & PROFILE (LINE 1)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO  
 2021



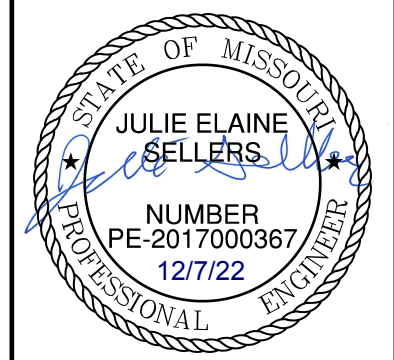
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 USER: ssoylor  
 C\_PUBLK\_B194061  
 C\_PSTRM\_B194061



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

\*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE

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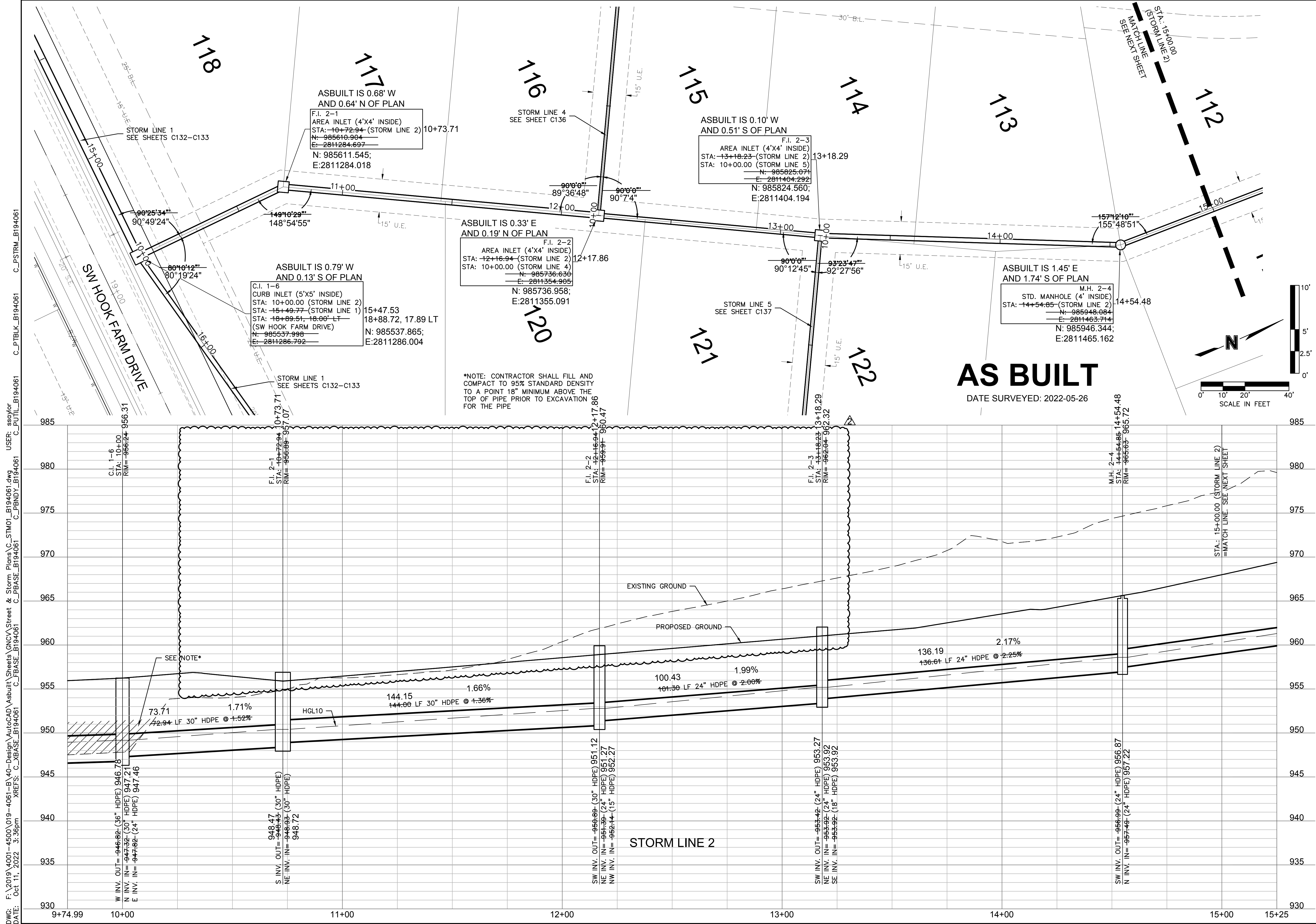


REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

STORM SEWER PLAN & PROFILE (LINE 1)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEES SUMMIT, MO  
 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET  
 C133



DWG: F:\2019\4001-4500\019-4061-BV-40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_STM01\_B194061.dwg USER: ssoylor  
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**JULIE ELAINE SELLERS**  
 PROFESSIONAL ENGINEER  
 NUMBER PE-2017000367  
 12/17/22

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

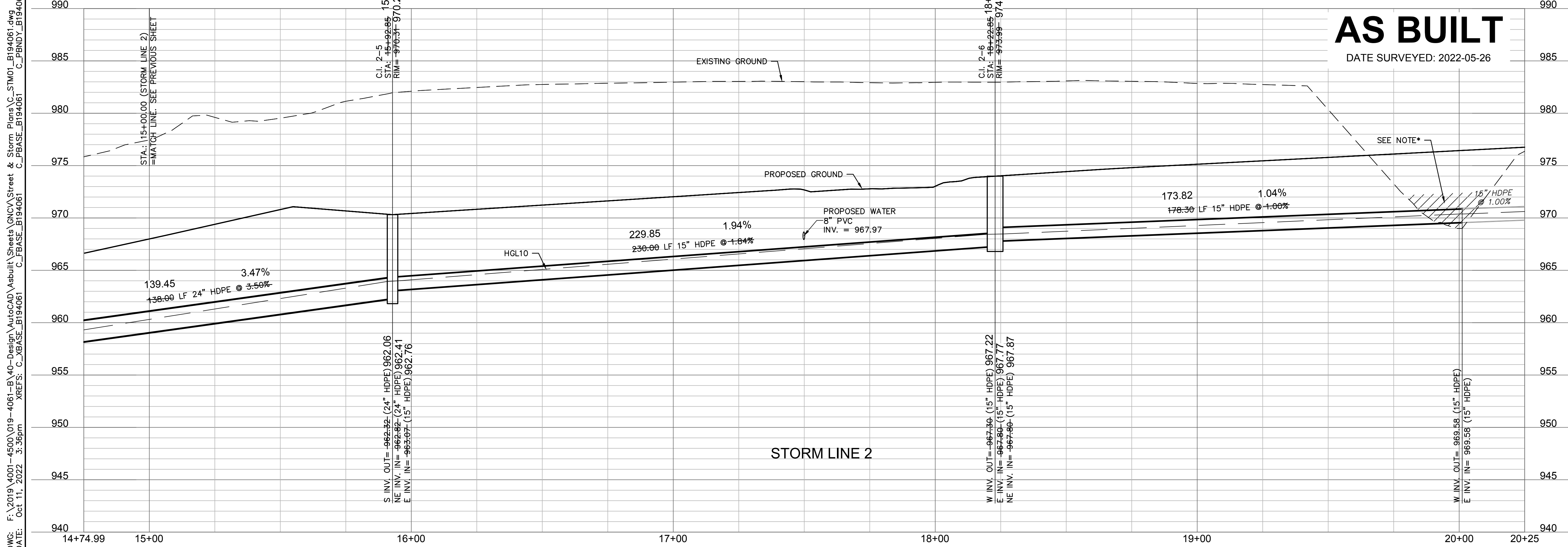
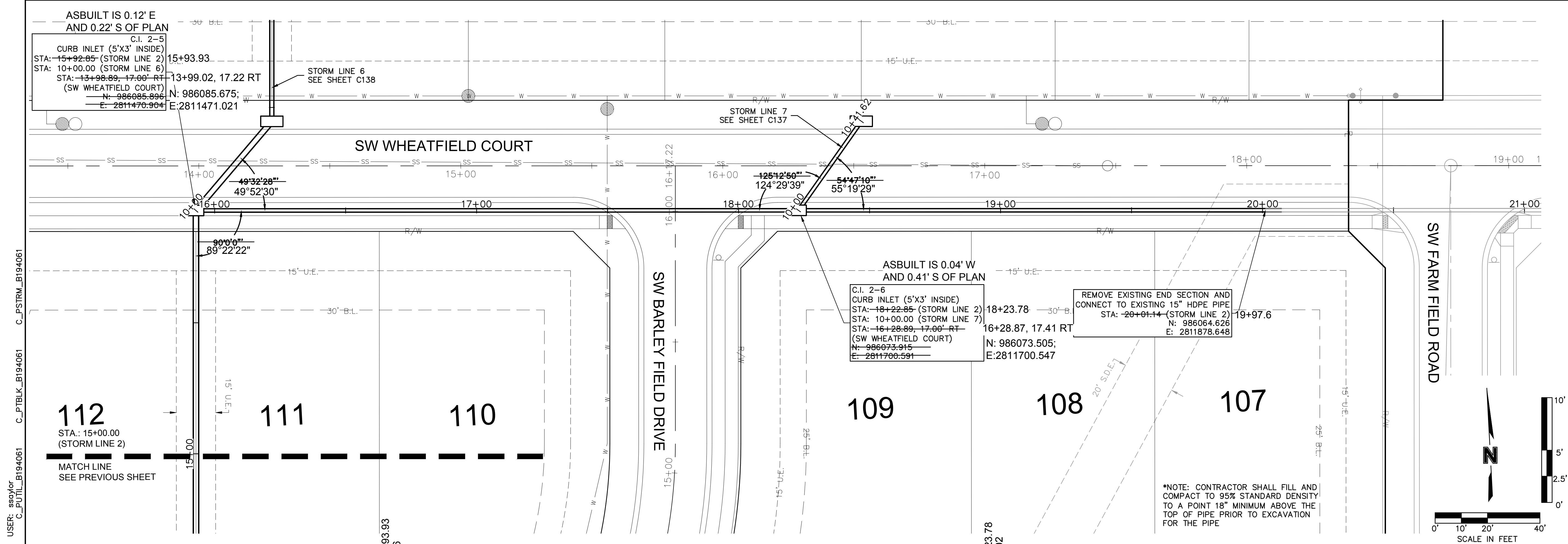
**HOOK FARMS  
 SECOND PLAT**

**LEES SUMMIT, MO**

2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-09-2021

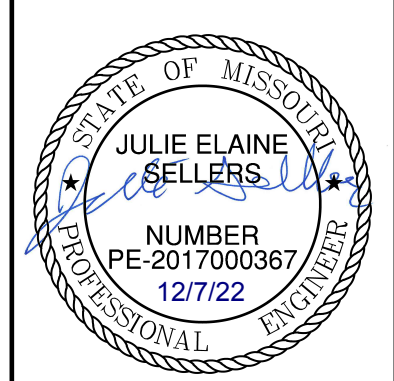
**SHEET C134**



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REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

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

HOOK FARMS  
 SECOND PLAT

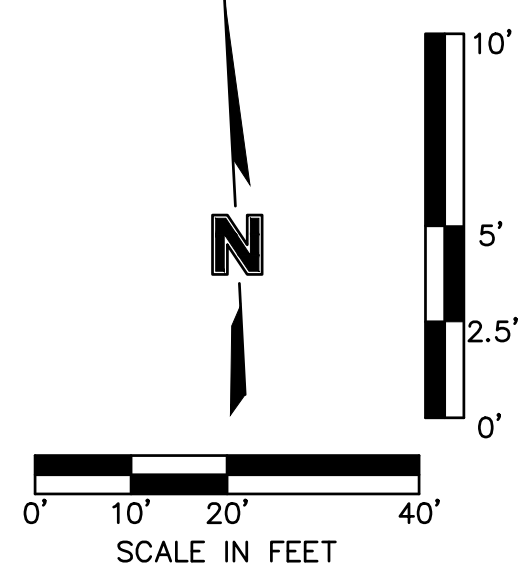
LEE'S SUMMIT, MO

2021

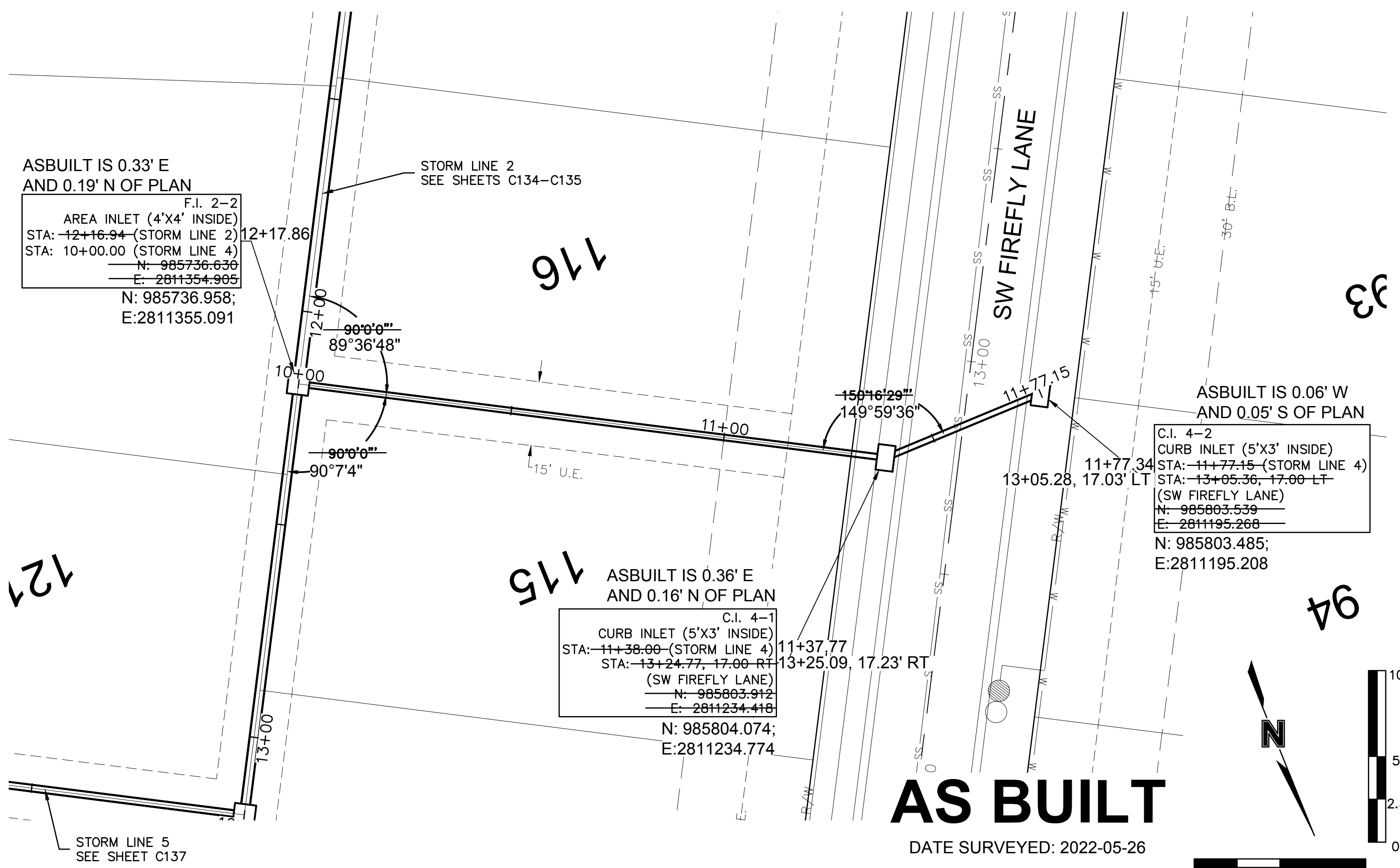
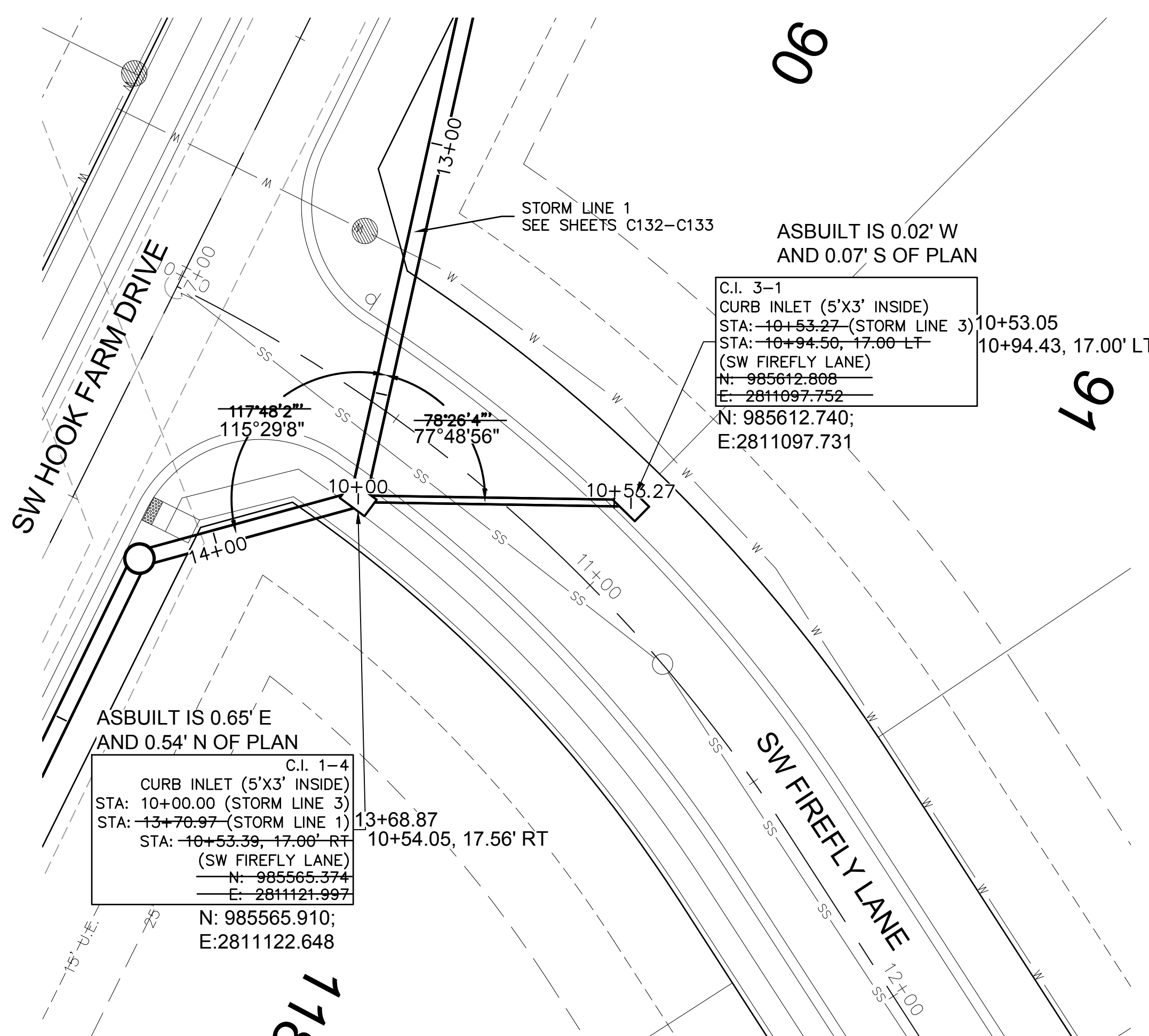
drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-09-2021

**SHEET C135**

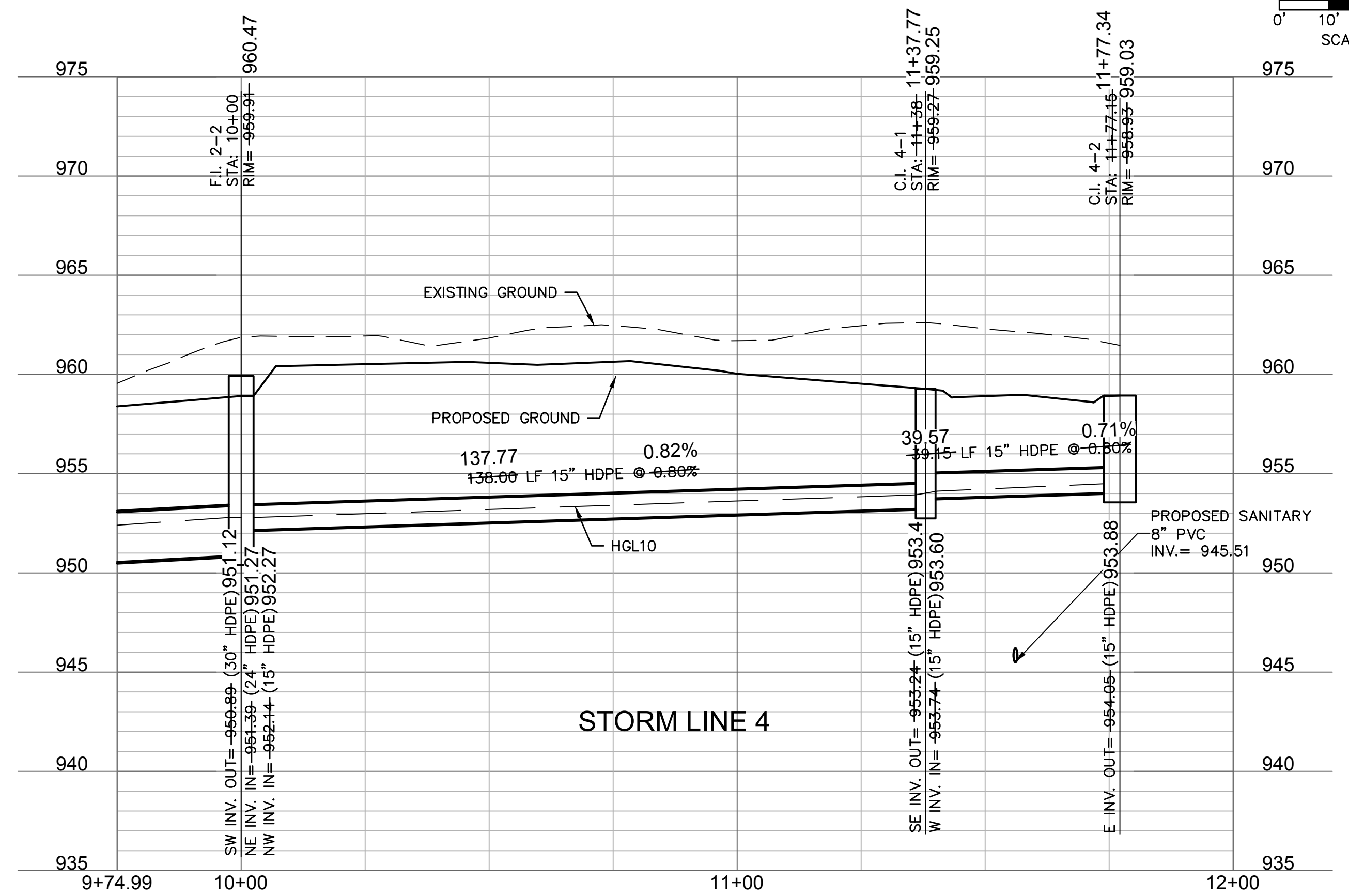
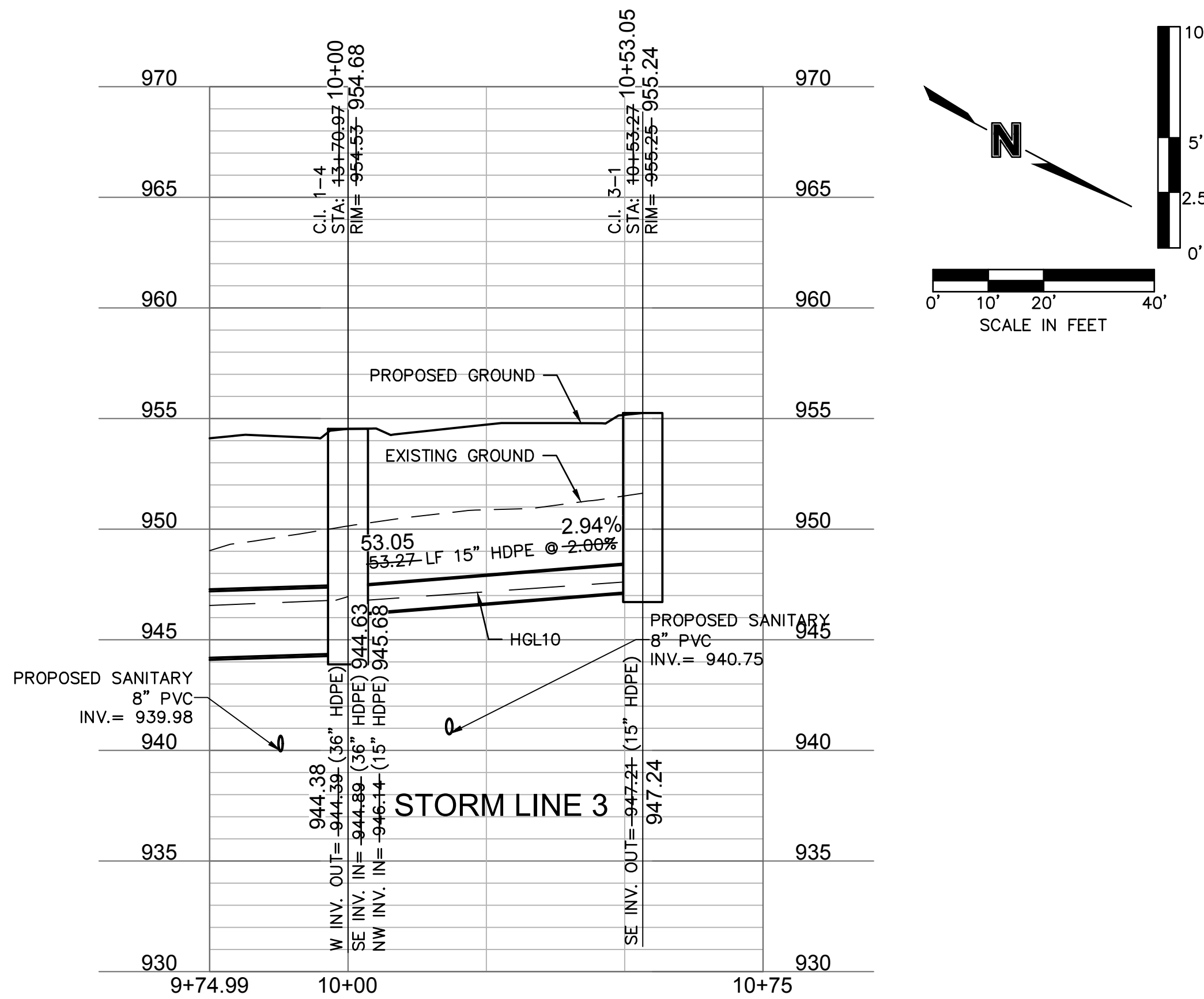
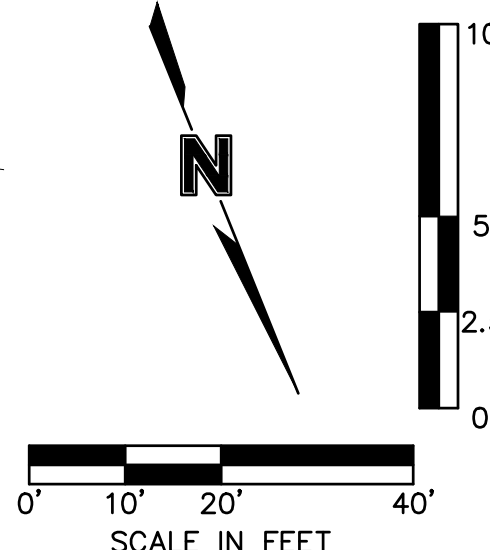
\*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE

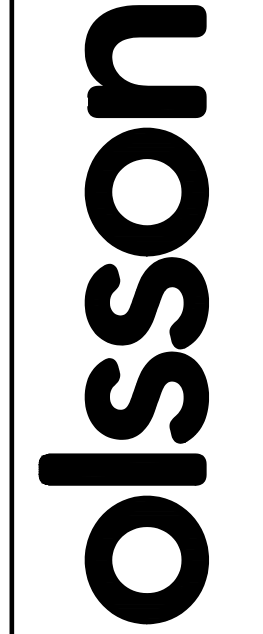


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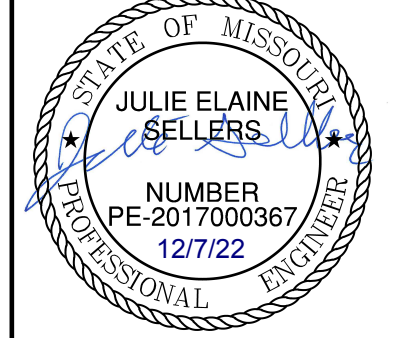


**AS BUILT**  
 DATE SURVEYED: 2022-05-26





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REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
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3	09-30-2021	CHANGES TO APPROVED PLANS

STORM SEWER PLAN & PROFILE (LINES 3 & 4)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT

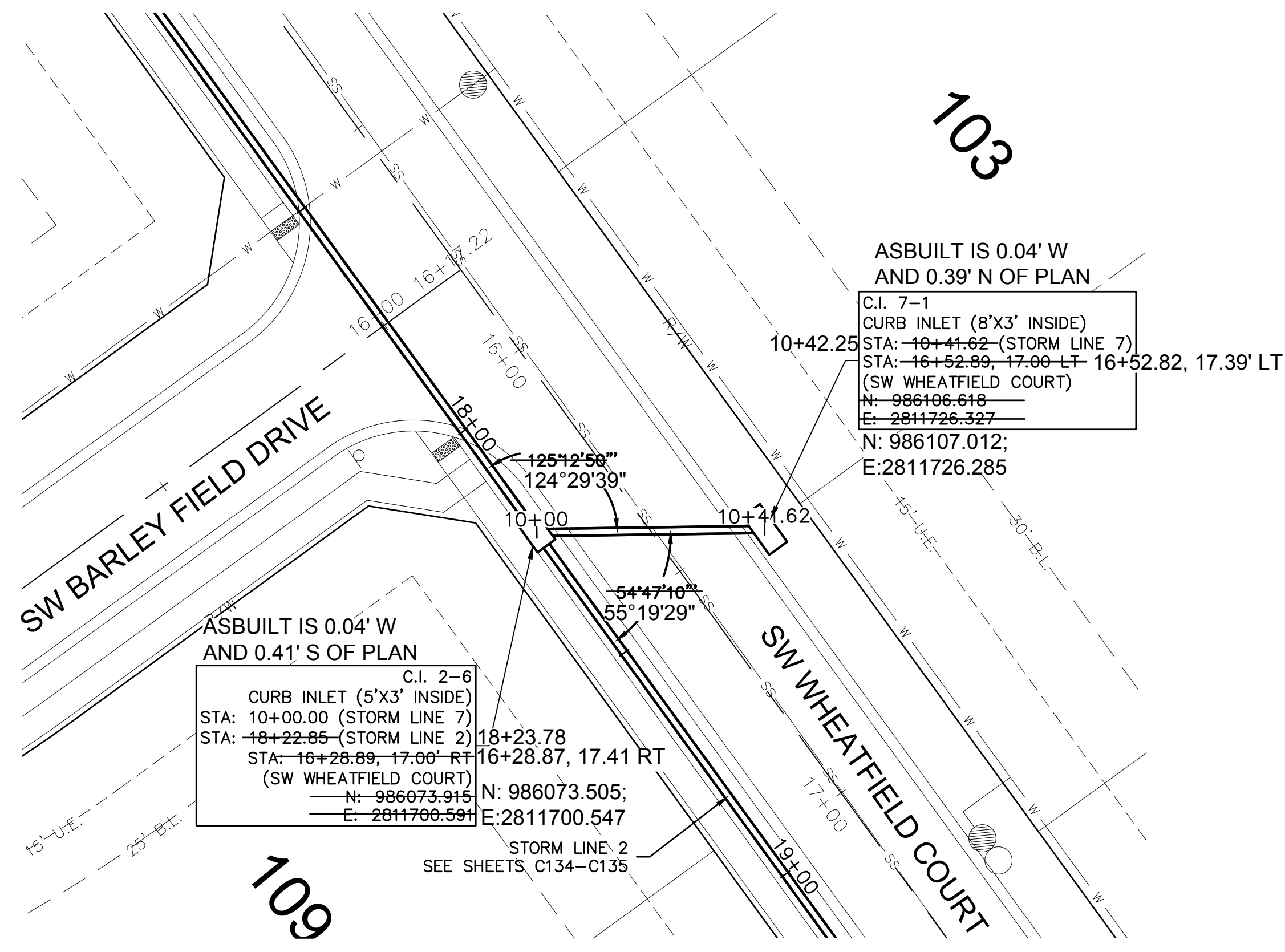
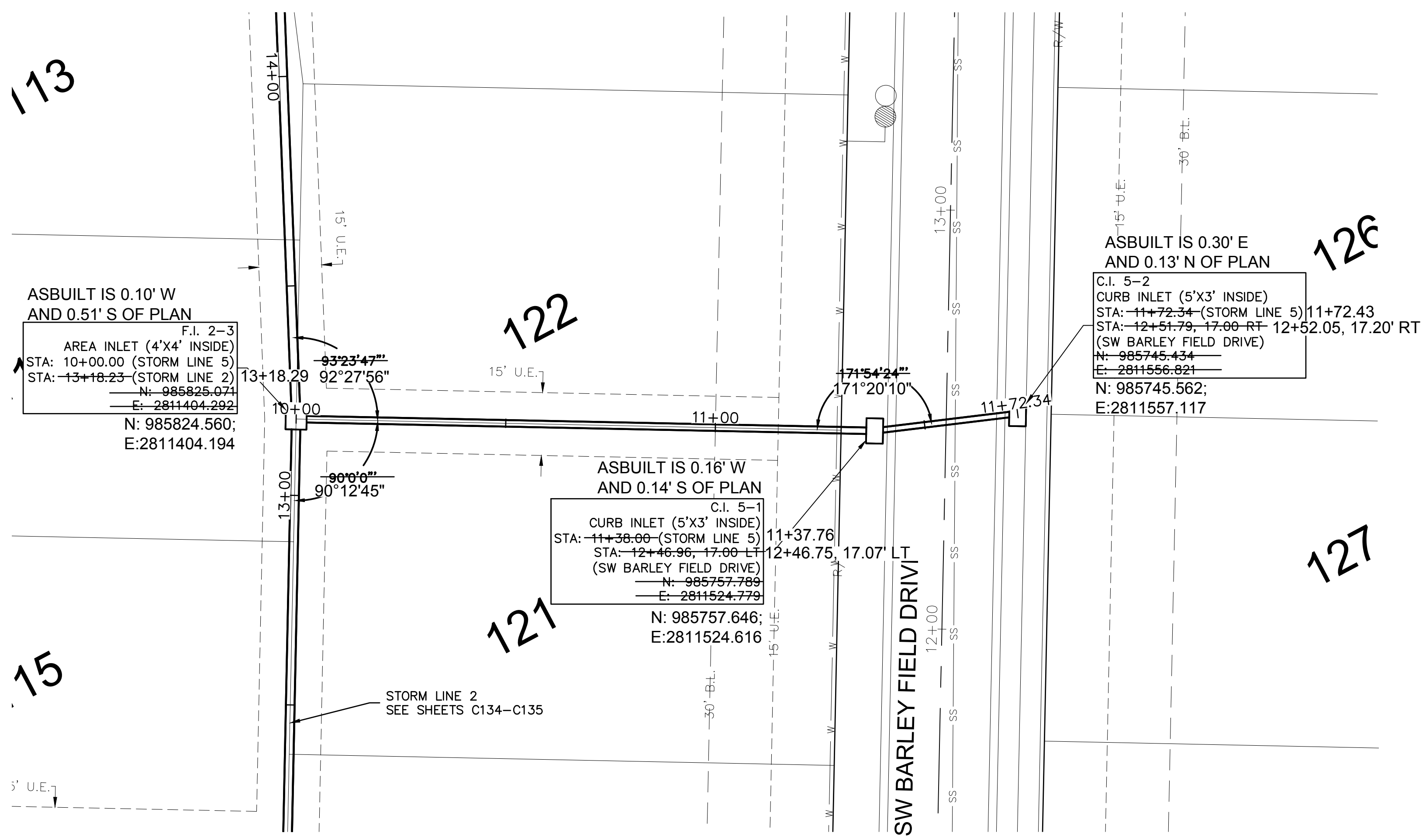
2021

REVISIONS

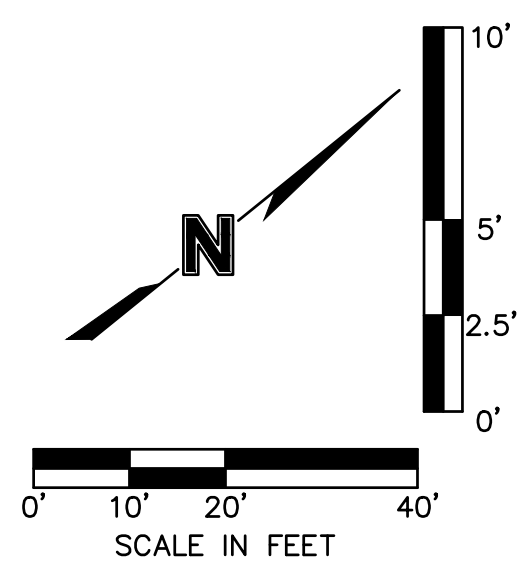
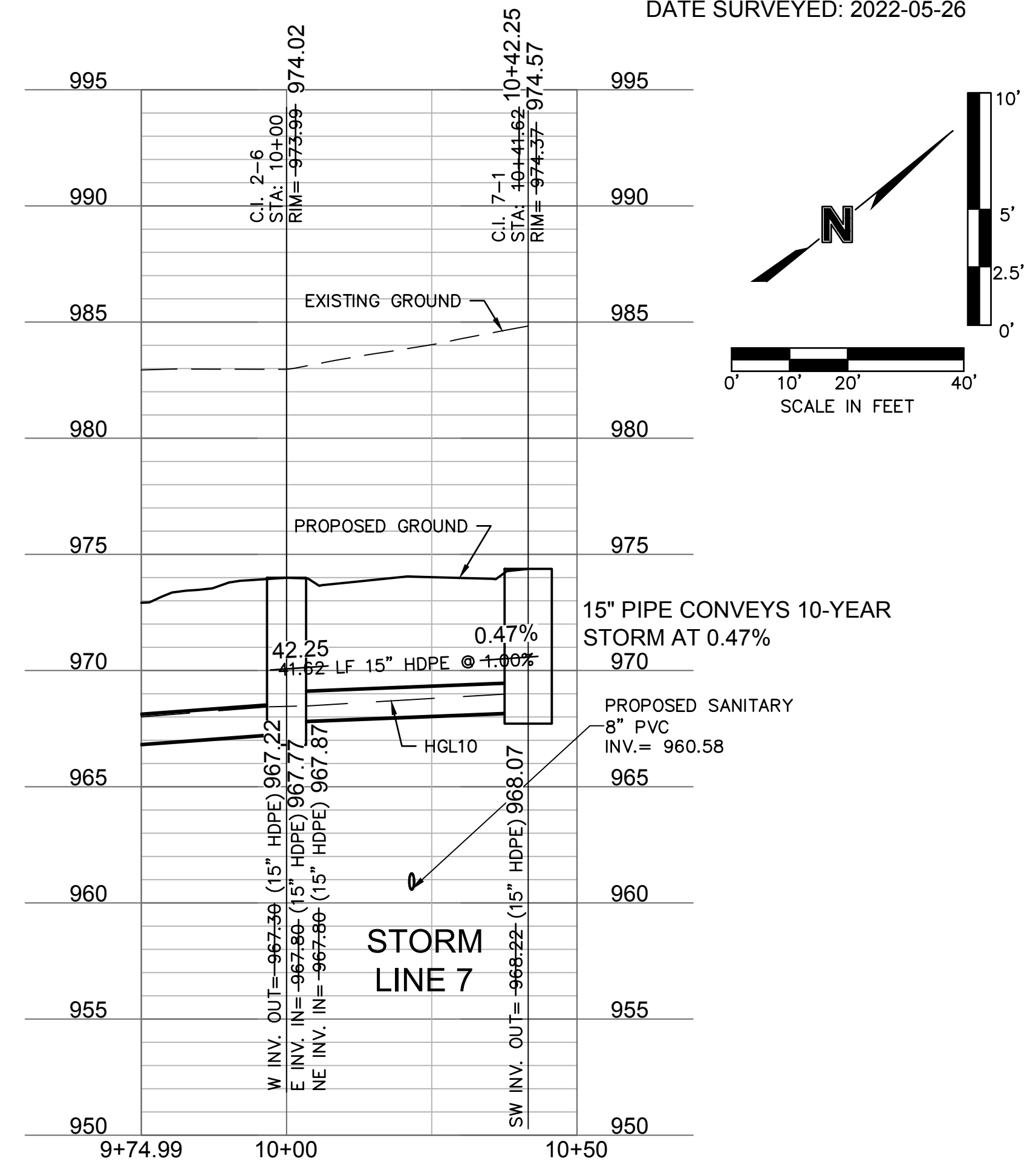
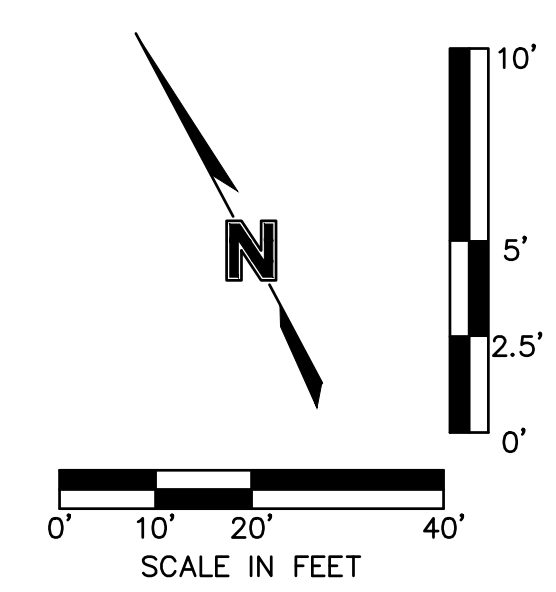
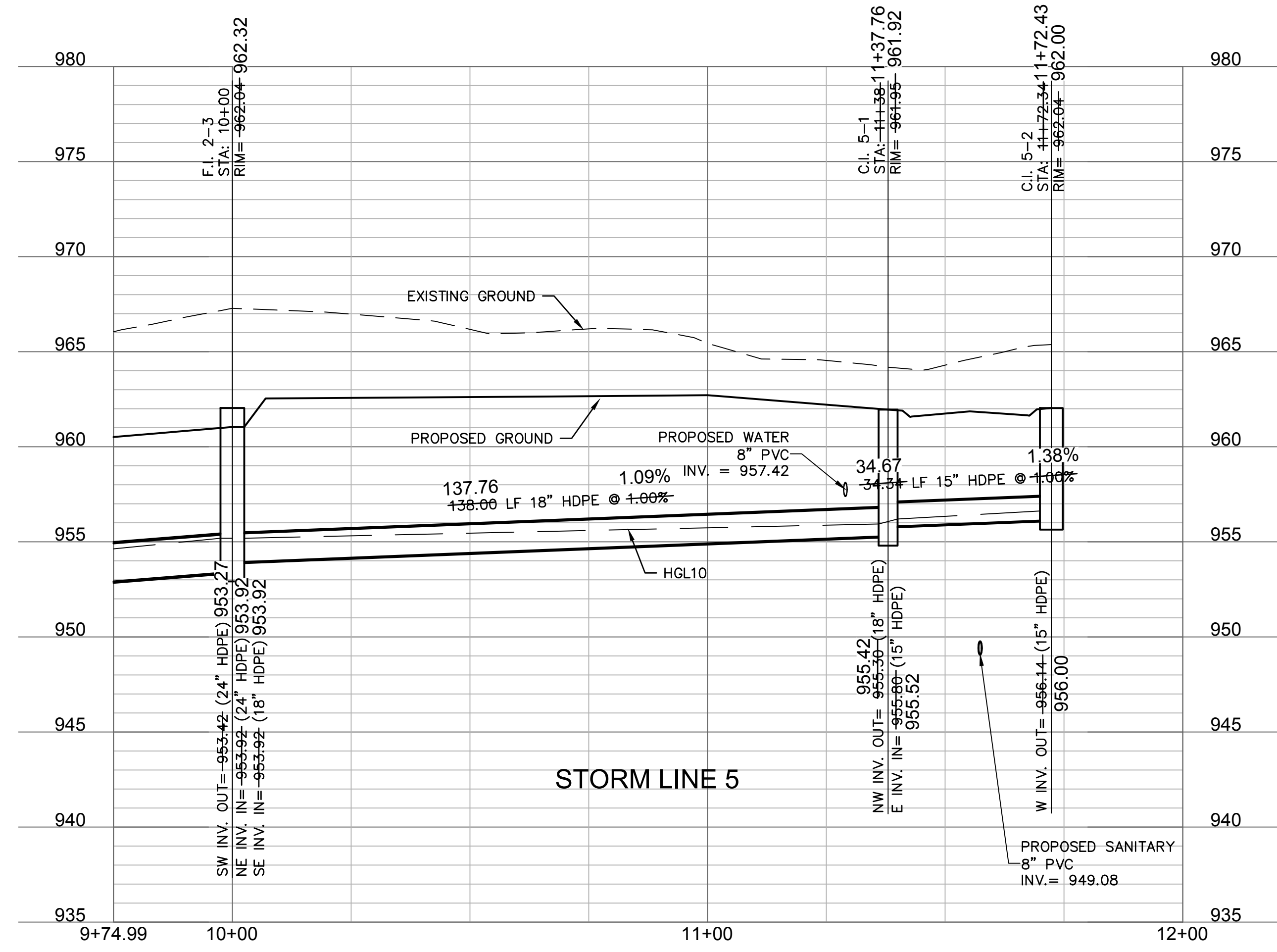
drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-09-2021

**SHEET**  
**C136**

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 C\_PBASE\_B194061  
 XREFS: C\_XBASE\_B194061



**AS BUILT**  
 DATE SURVEYED: 2022-05-26



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STATE OF MISSOURI  
 JULIE ELAINE SELLERS  
 PROFESSIONAL ENGINEER  
 NUMBER PE-2017000367  
 12/17/22

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
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3	09-30-2021	CHANGES TO APPROVED PLANS

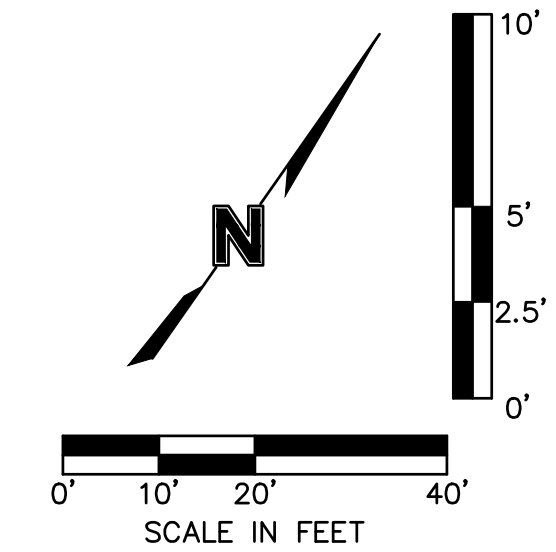
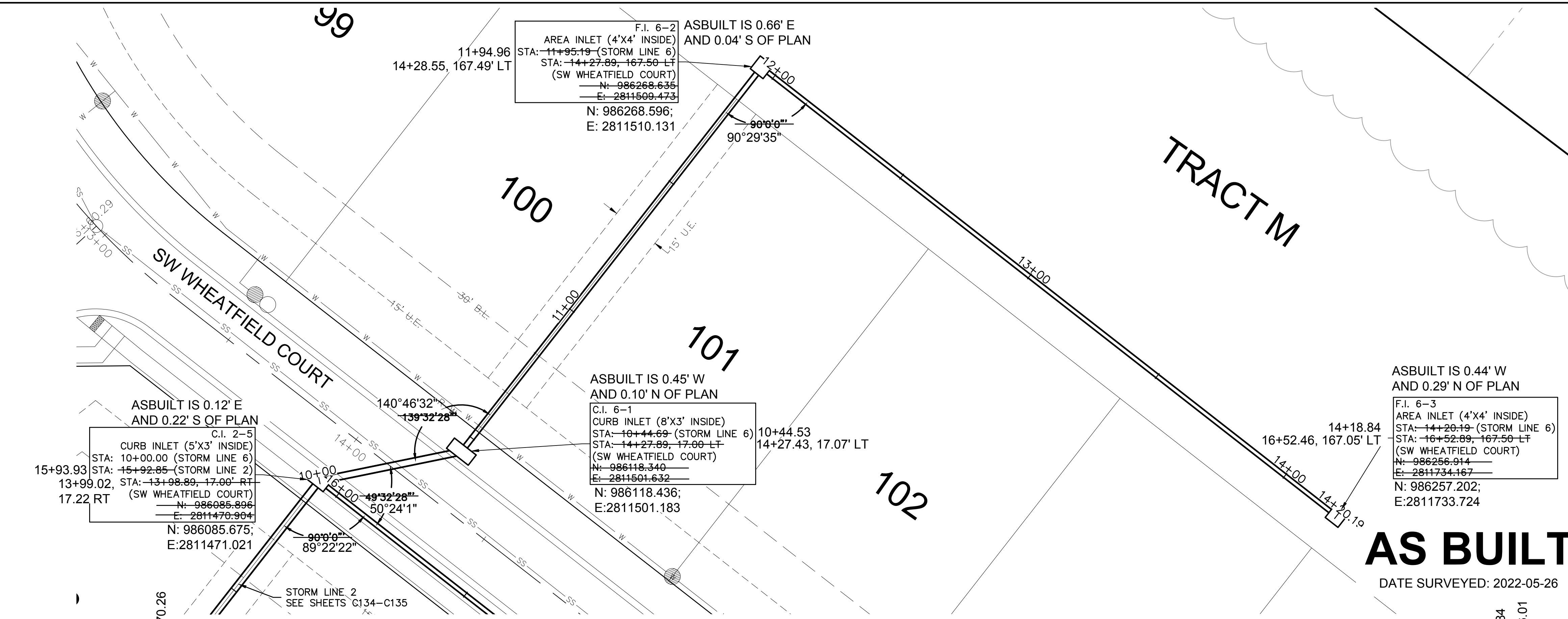
BY: \_\_\_\_\_

STORM SEWER PLAN & PROFILE (LINES 5 & 7)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO

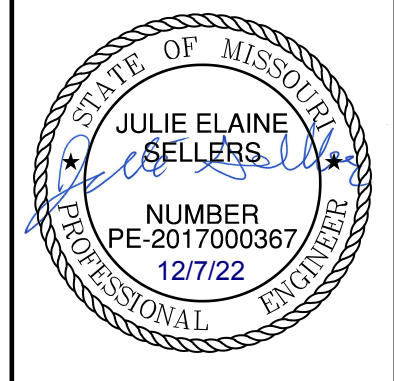
drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-09-2021

**SHEET C137**

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_STM02\_B194061.dwg USER: ssoy/or  
 DATE: Oct 11, 2022 3:37pm XREFS: C\_XBASE\_B194061 C\_PBASE\_B194061 C\_PBLK\_B194061 C\_PSTRM\_B194061 C\_PUTIL\_B194061



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REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

BY

STORM SEWER PLAN & PROFILE (LINE 6)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO

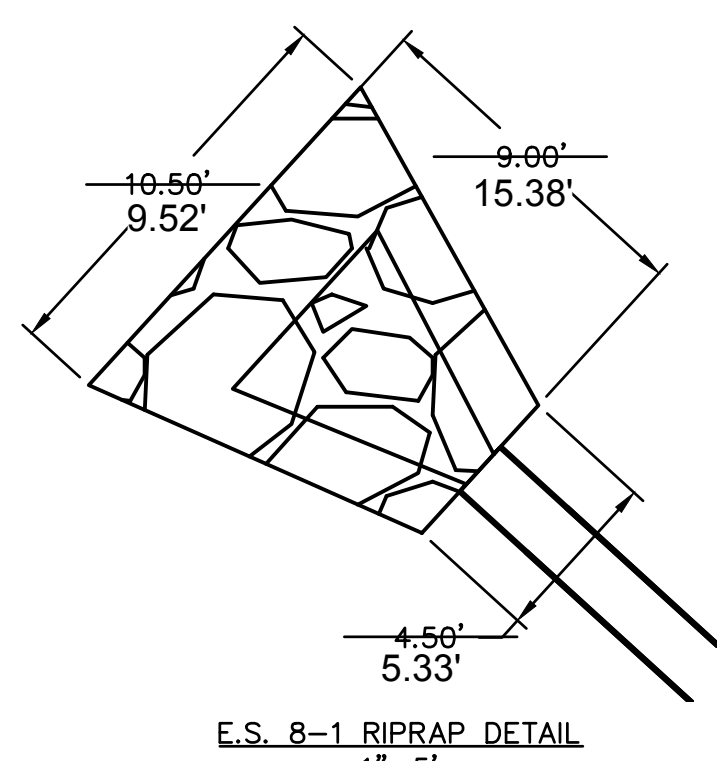
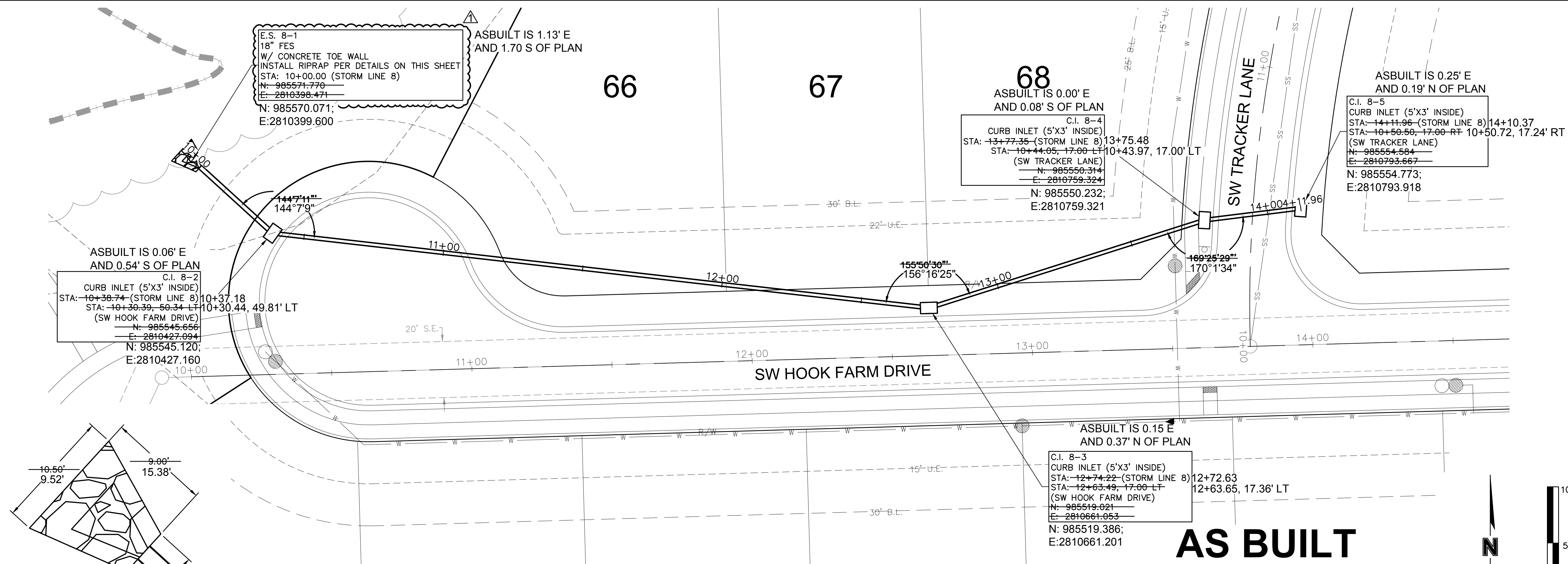
2021

REVISIONS

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-09-2021

SHEET C138

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Storm Plans\C\_STM02\_B194061.dwg  
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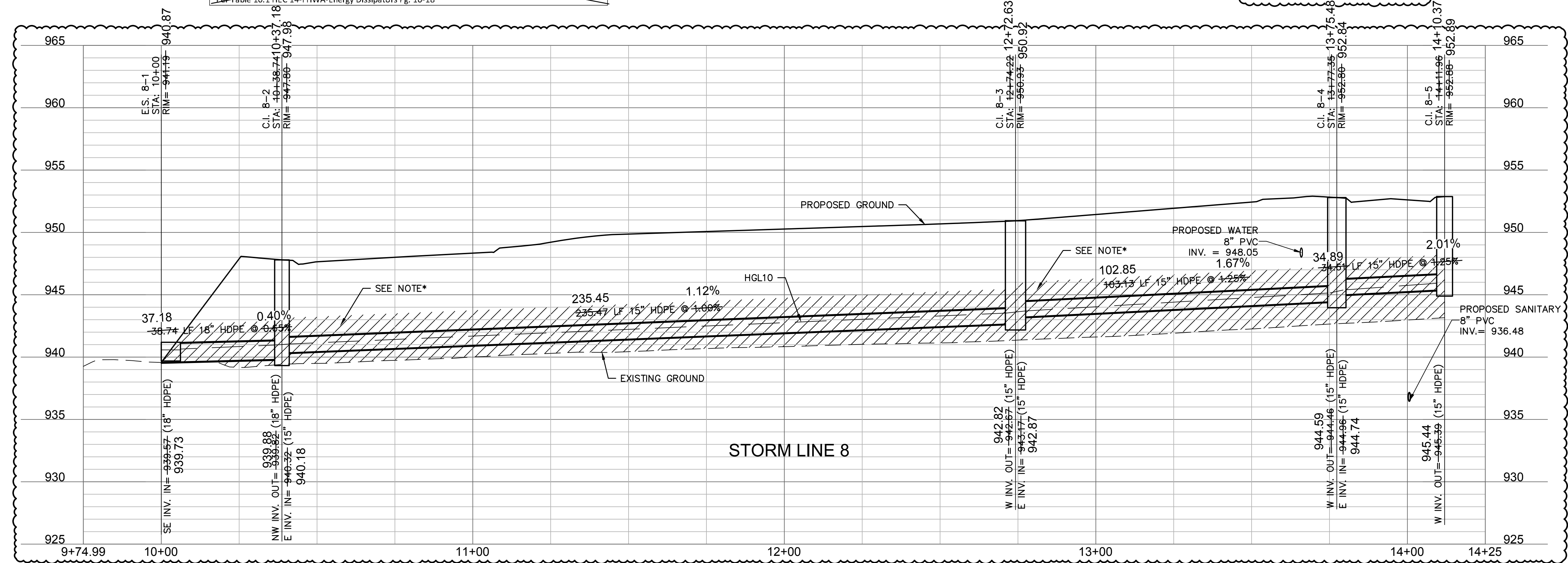
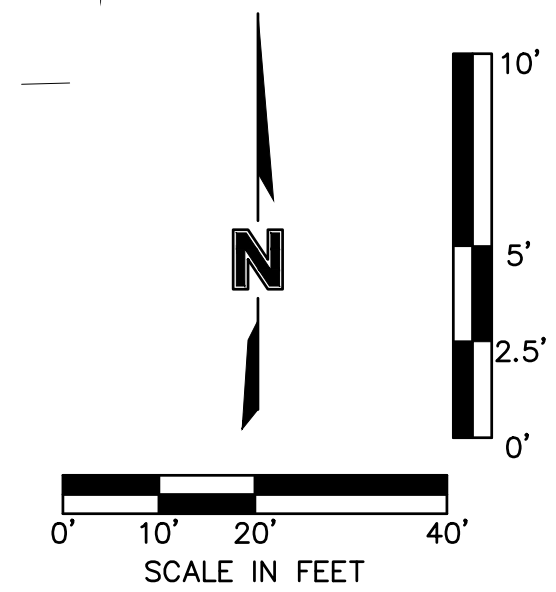
Riprap Calculations

End Section	Q <sub>100</sub> (cfs)	Pipe Diameter (ft)	Class*	D50* (mm)	Apron Length (ft)	Apron Depth (ft)	Area (Sq)
E.S. 8-1	17.4	1.5	4	14	9	2.57	7.5

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

**AS BUILT**  
 DATE SURVEYED: 2022-05-26

NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE



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JULIE ELAINE SELLERS  
 NUMBER PE-2017000367  
 12/7/22  
 PROFESSIONAL ENGINEER

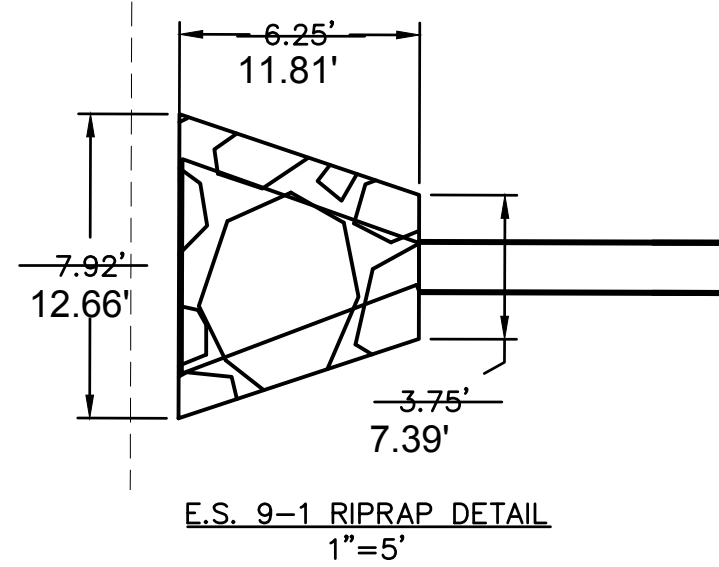
BY: \_\_\_\_\_  
 REVISIONS DESCRIPTION DATE REV. NO.  
 1 03-23-2021 REVISED PER CITY COMMENTS  
 2 04-16-2021 REVISED PER CITY COMMENTS  
 3 09-30-2021 CHANGES TO APPROVED PLANS

STORM SEWER PLAN & PROFILE (LINE 8)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 2021  
 LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-09-2021

SHEET C139

DWG: F:\2019\4001-4500\019-4061-BX40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_STM03\_B194061.dwg  
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ASBUILT IS 3.45' E AND 2.19' S OF PLAN  
 E.S. 9-1  
 15" FES  
 W/ CONCRETE TOE WALL  
 INSTALL RIPRAP PER DETAILS ON THIS SHEET  
 STA: 10+00.00 (STORM LINE 9)  
 STA: 12+73.74, 179.45 LT-12+73.57, 175.37' LT  
 (SW TRACKER LANE) N: 985853.150;  
 N: 985855.338 E: 2810683.077 E: 2810686.522

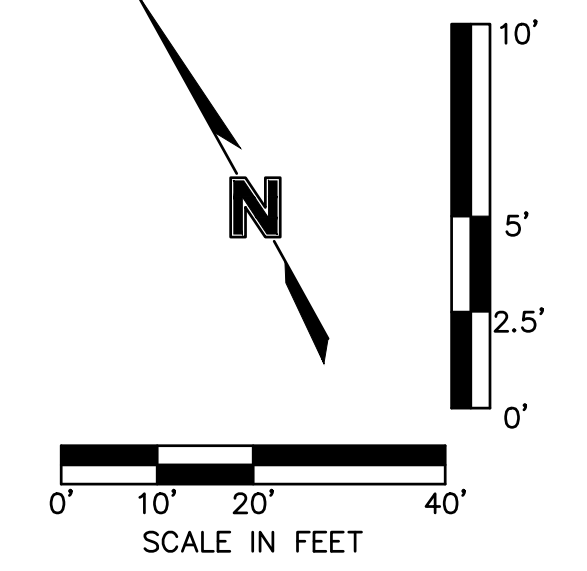
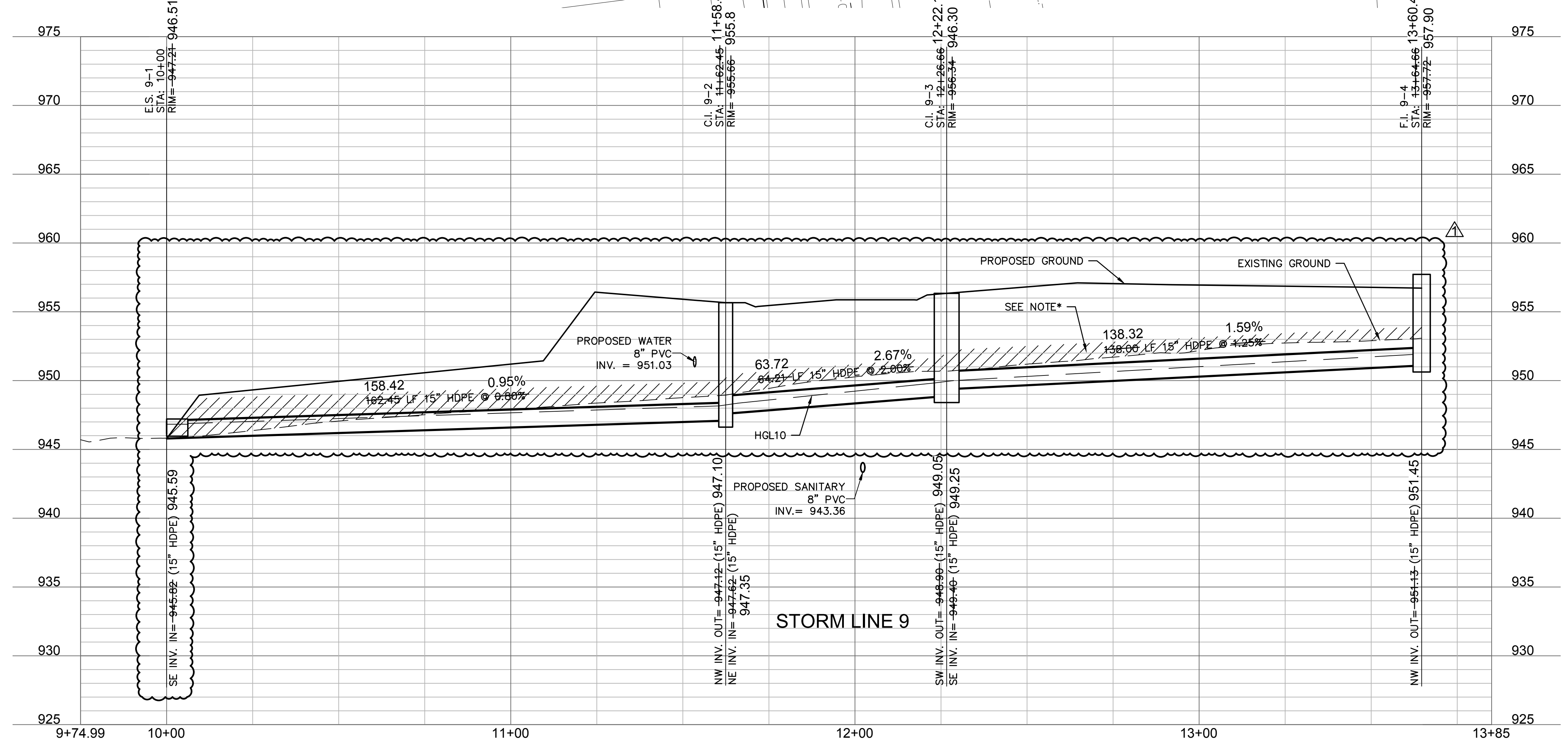
ASBUILT IS 0.13' E AND 0.12' N OF PLAN  
 C.I. 9-2  
 CURB INLET (5'X3' INSIDE)  
 STA: 11+62.45 (STORM LINE 9)  
 STA: 12+73.56, 17.00 LT  
 (SW TRACKER LANE)  
 N: 985776.154  
 E: 2810824.917  
 N: 985776.272;  
 E: 2810825.043

ASBUILT IS 0.26' W AND 0.21' S OF PLAN  
 C.I. 9-3  
 CURB INLET (5'X3' INSIDE)  
 STA: 12+26.66 (STORM LINE 9) 12+22.14  
 STA: 13+28.01, 17.00 RT- 13+27.70, 16.88' RT  
 (SW TRACKER LANE)  
 N: 985807.139  
 E: 2810801.161  
 N: 985806.927;  
 E: 2810880.900

ASBUILT IS 0.11' W AND 0.59' S OF PLAN  
 F.I. 9-4  
 AREA INLET (4'X4' INSIDE)  
 STA: 13+64.66 (STORM LINE 9) 13+60.46  
 STA: 13+28.01, 155.00 RT  
 (SW TRACKER LANE)  
 N: 985739.857  
 E: 2811001.648  
 N: 985739.268;  
 E: 2811001.543

End Section	Q <sub>100</sub> (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (SY)
E.S. 9-1	11.2	1.25	3	10	22.12	2.00	20.2

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



\*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE

**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	03-23-2021	REVISED PER CITY COMMENTS	
2	04-16-2021	REVISED PER CITY COMMENTS	
3	09-30-2021	CHANGES TO APPROVED PLANS	

STORM SEWER PLAN & PROFILE (LINE 9)  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

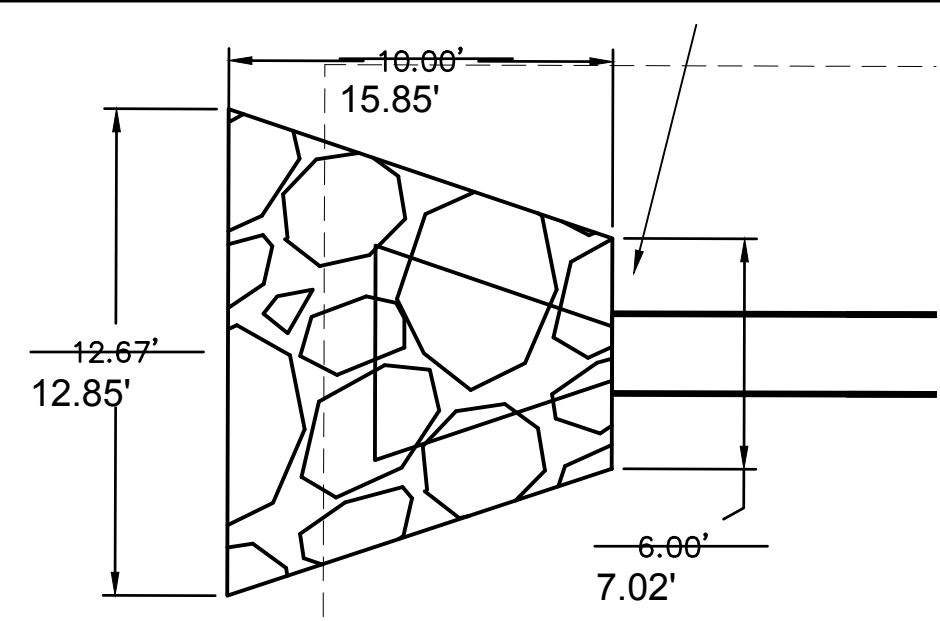
2021

LEE'S SUMMIT, MO

SHEET  
 C140



DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_STM03\_B194061.dwg  
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E.S. 10-1 RIPRAP DETAIL  
1"=5'

ASBUILT IS 2.99' E AND 1.74' S OF PLAN  
 E.S. 10-1  
 24" FES  
 W/ CONCRETE TOE WALL  
 INSTALL RIPRAP PER DETAILS ON THIS SHEET  
 STA: 10+00.00 (STORM LINE 10)  
 STA: 11+92.52, 182.97 LT- 14+92.46, 179.50' LT  
 (SW TRACKER LANE) N: 986046.527;  
 N: 986046.268 E: 2810789.774  
 E: 2810786.786

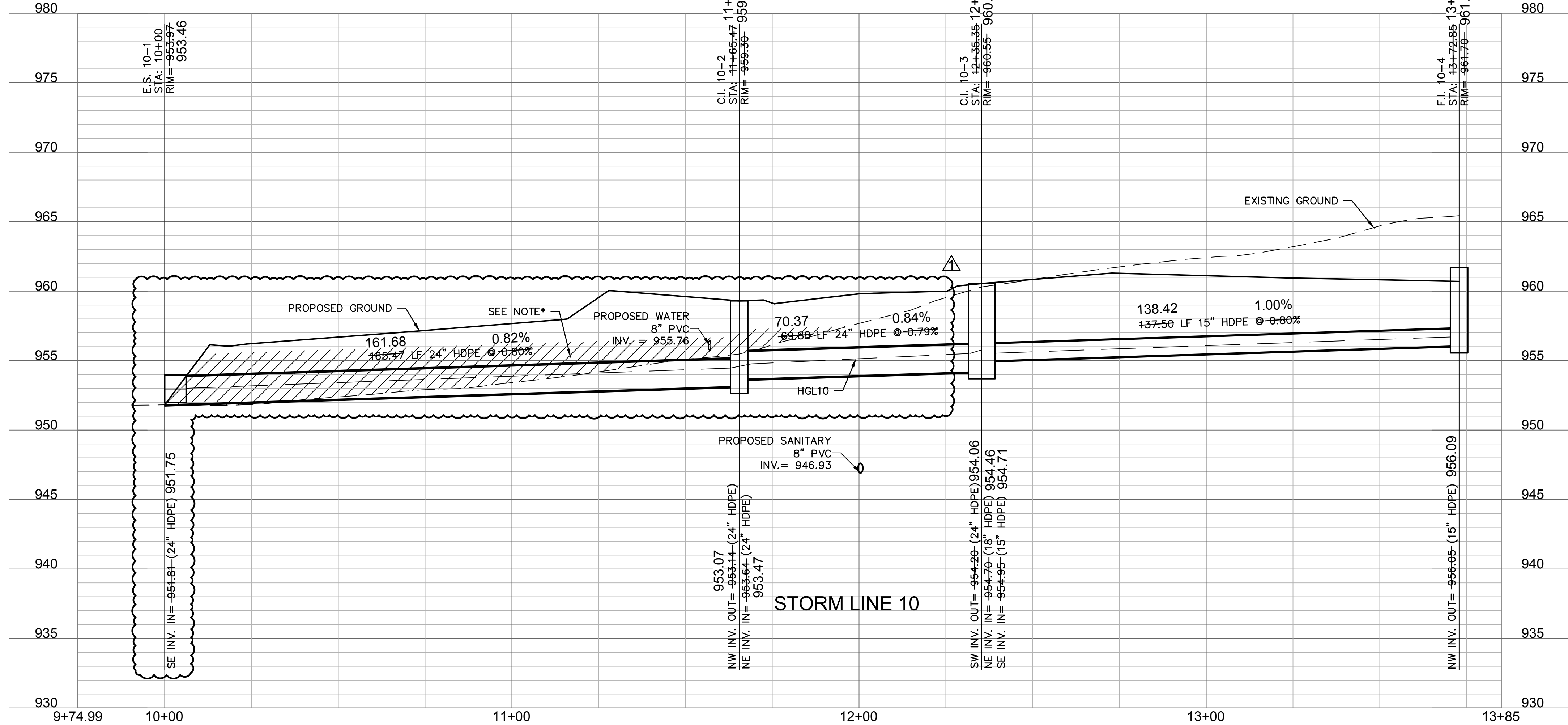
ASBUILT IS 0.21' W AND 0.28' N OF PLAN  
 C.I. 10-2  
 CURB INLET (5'x4' INSIDE)  
 STA: 11+65.47 (STORM LINE 10)  
 STA: 14+92.52, 17.50' LT  
 (SW TRACKER LANE)  
 N: 985967.595  
 E: 2810931.247  
 N: 985967.871;  
 E: 2810931.037

ASBUILT IS 0.49' E AND 0.05' N OF PLAN  
 C.I. 10-3  
 CURB INLET (5'x4' INSIDE)  
 STA: 12+35.35 (STORM LINE 10)  
 STA: 10+00.00 (STORM LINE 11)  
 STA: 15+53.01, 17.50' RT- 15+53.29, 17.91' RT  
 (SW TRACKER LANE)  
 N: 986003.342  
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 N: 986003.389;  
 E: 2810991.790

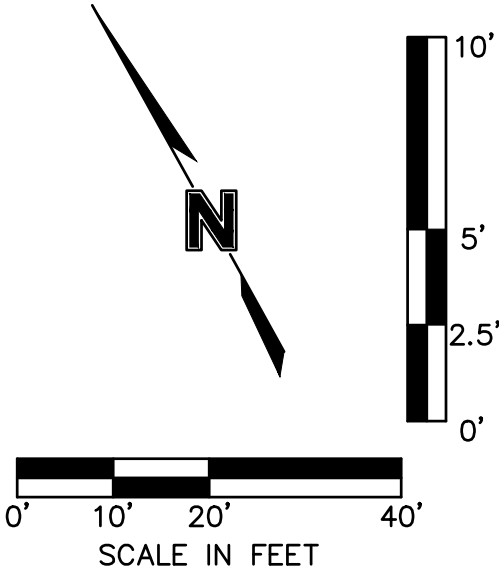
ASBUILT IS 1.07' E AND 0.80' S OF PLAN  
 F.I. 10-4  
 AREA INLET (4'x4' INSIDE)  
 STA: 13+72.85 (STORM LINE 10)  
 STA: 15+53.01, 155.00 RT- 15+52.83, 156.32' RT  
 (SW TRACKER LANE)  
 N: 985936.363  
 E: 2811111.347  
 N: 985935.500;  
 E: 2811112.413

End Section	Q <sub>100</sub> (cfs)	Pipe Diameter (ft)	Class*	D50* (ft)	Apron Length (ft)	Apron Depth (ft)	Area (SY)
E.S. 10-1	21.85	2	3	10	10	2.00	10.4

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



\*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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REVISIONS

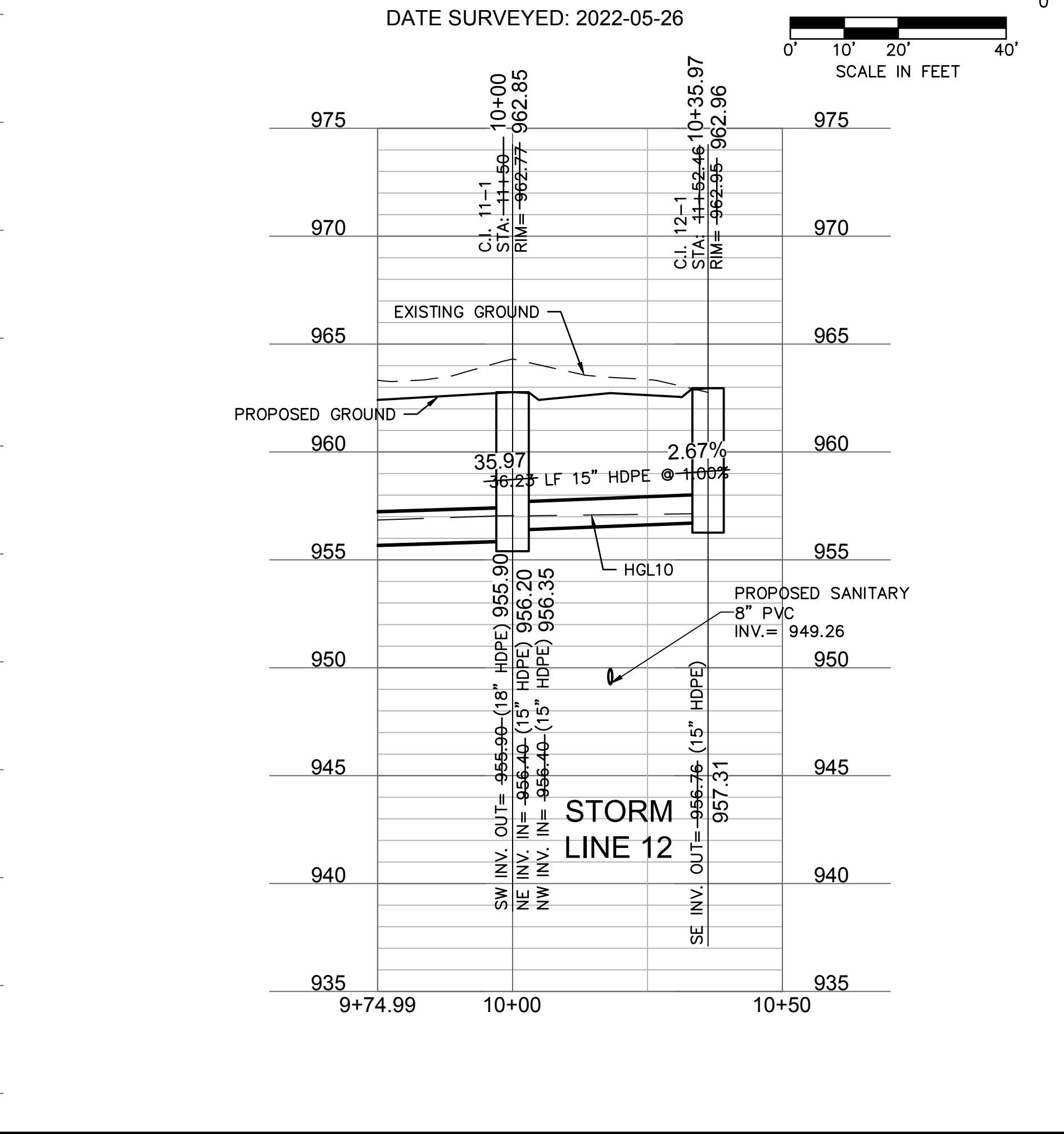
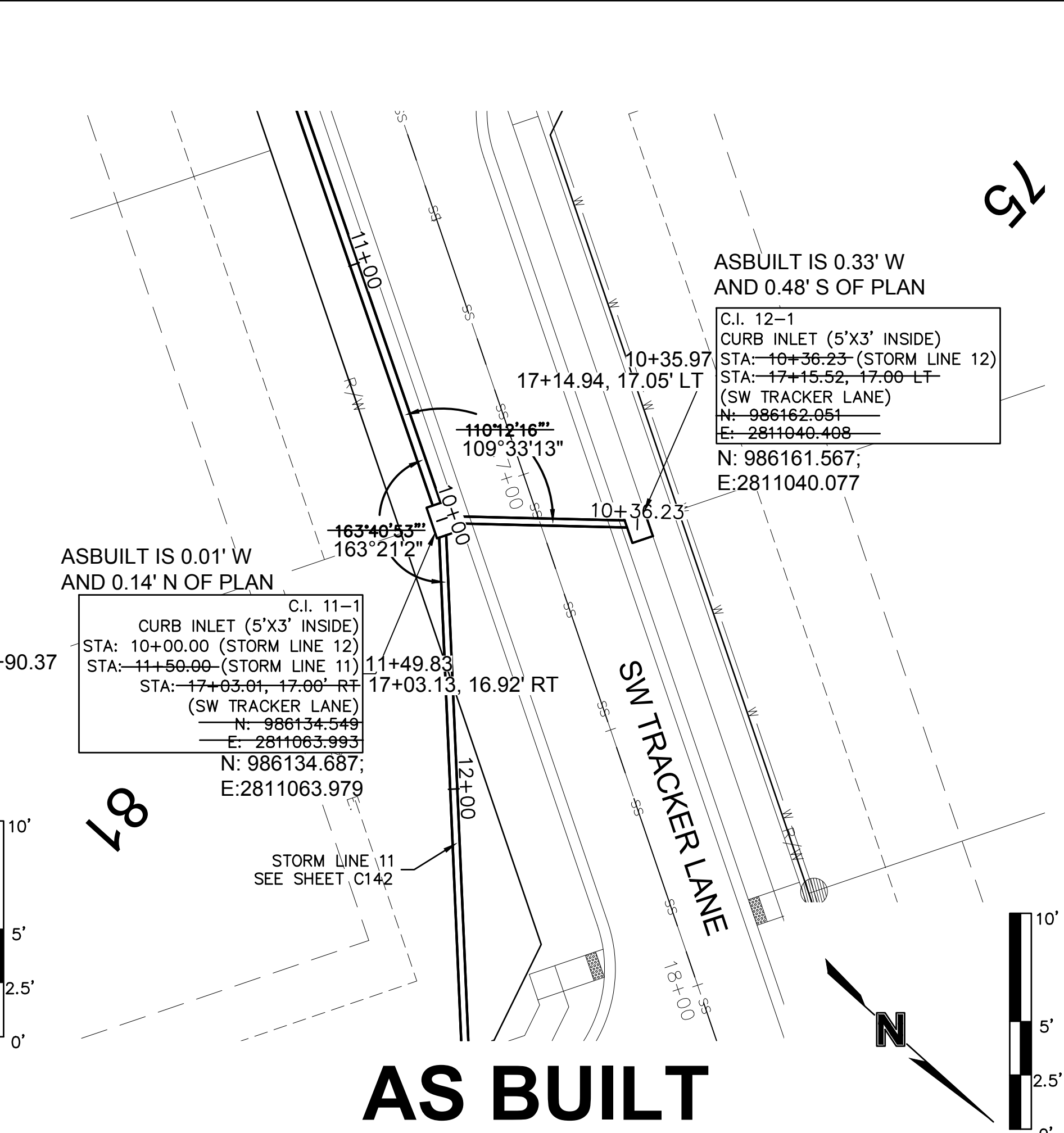
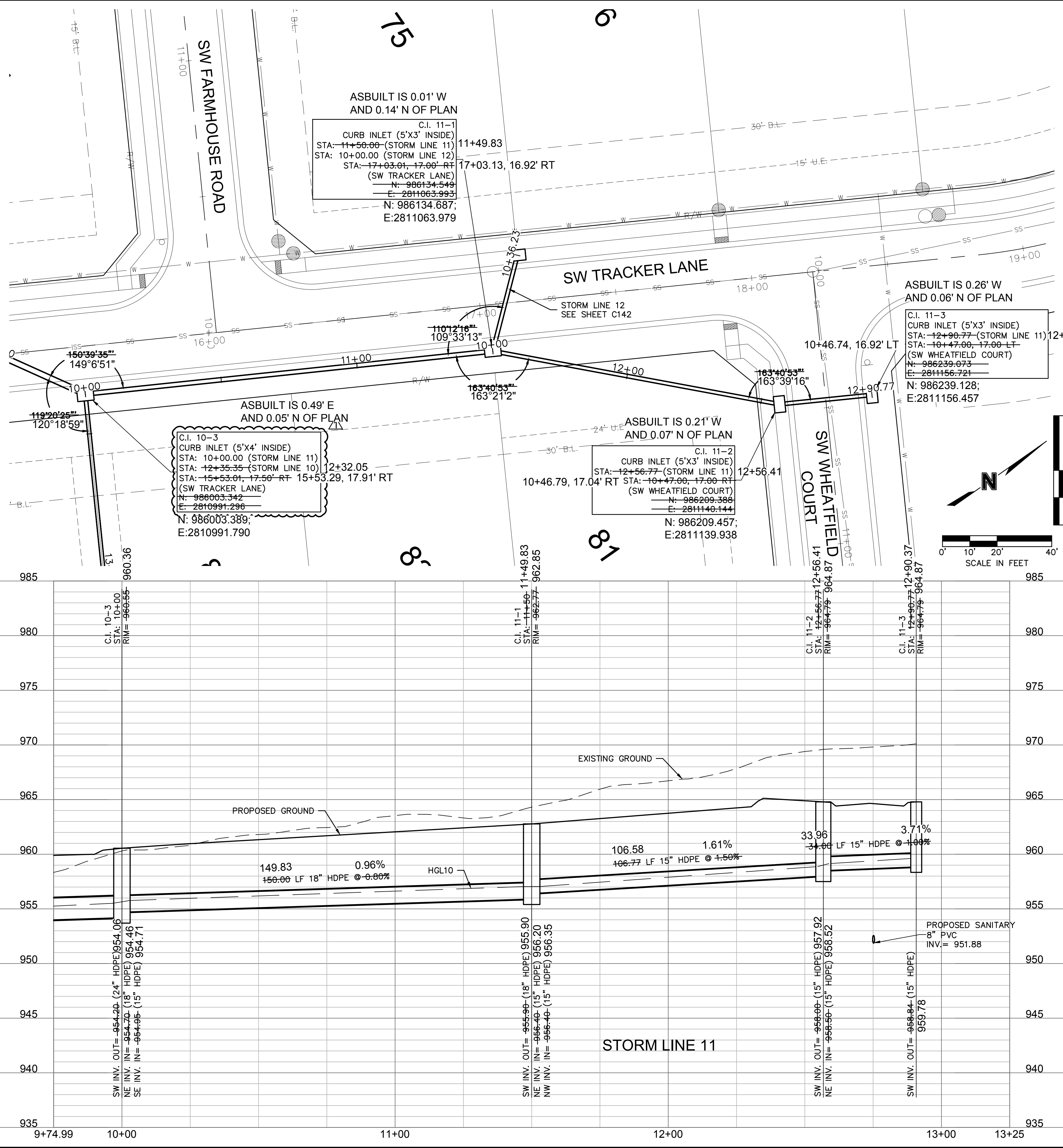
REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	03-23-2021	REVISED PER CITY COMMENTS	
2	04-16-2021	REVISED PER CITY COMMENTS	
3	09-30-2021	CHANGES TO APPROVED PLANS	

STORM SEWER PLAN & PROFILE (LINE 10)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-09-2021

SHEET  
 C141

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_STM03\_B194061.dwg  
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JULIE ELAINE SELLERS  
 PROFESSIONAL ENGINEER  
 NUMBER PE-2017000367  
 12/17/22

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

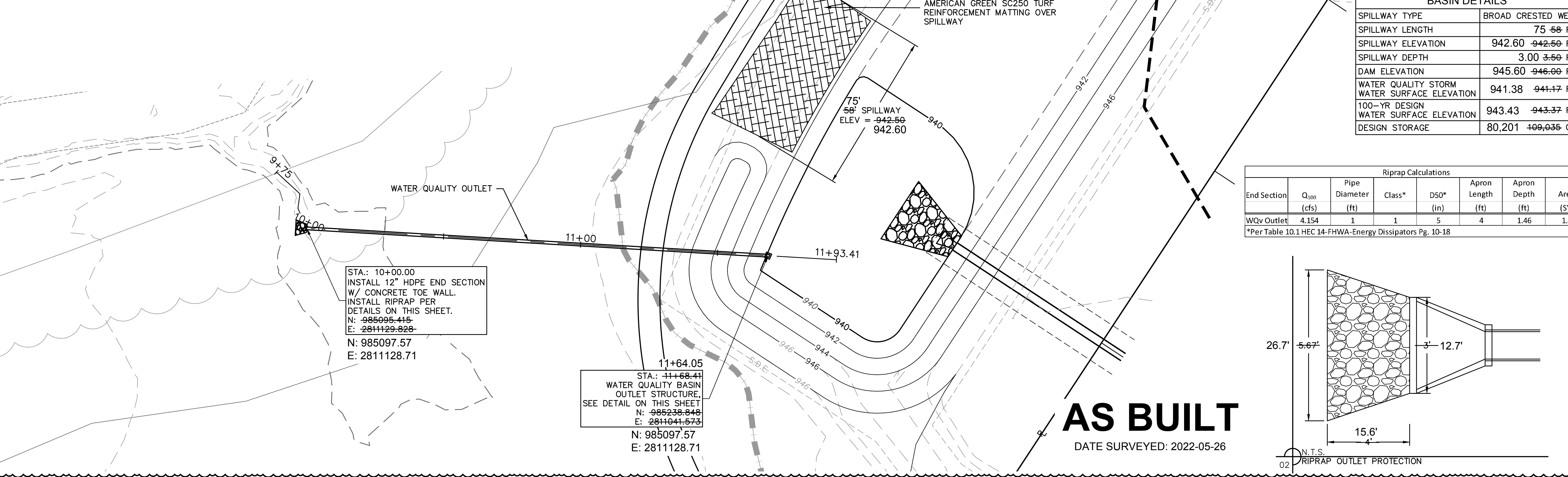
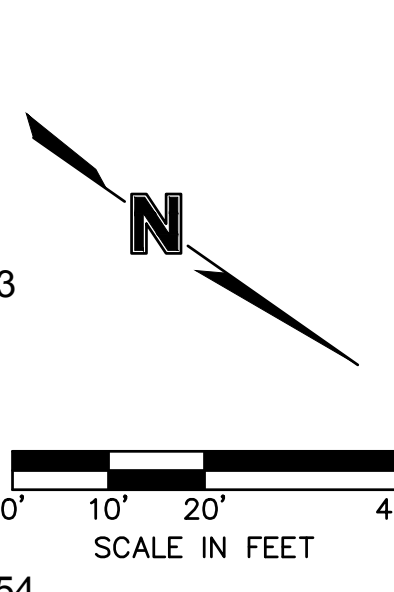
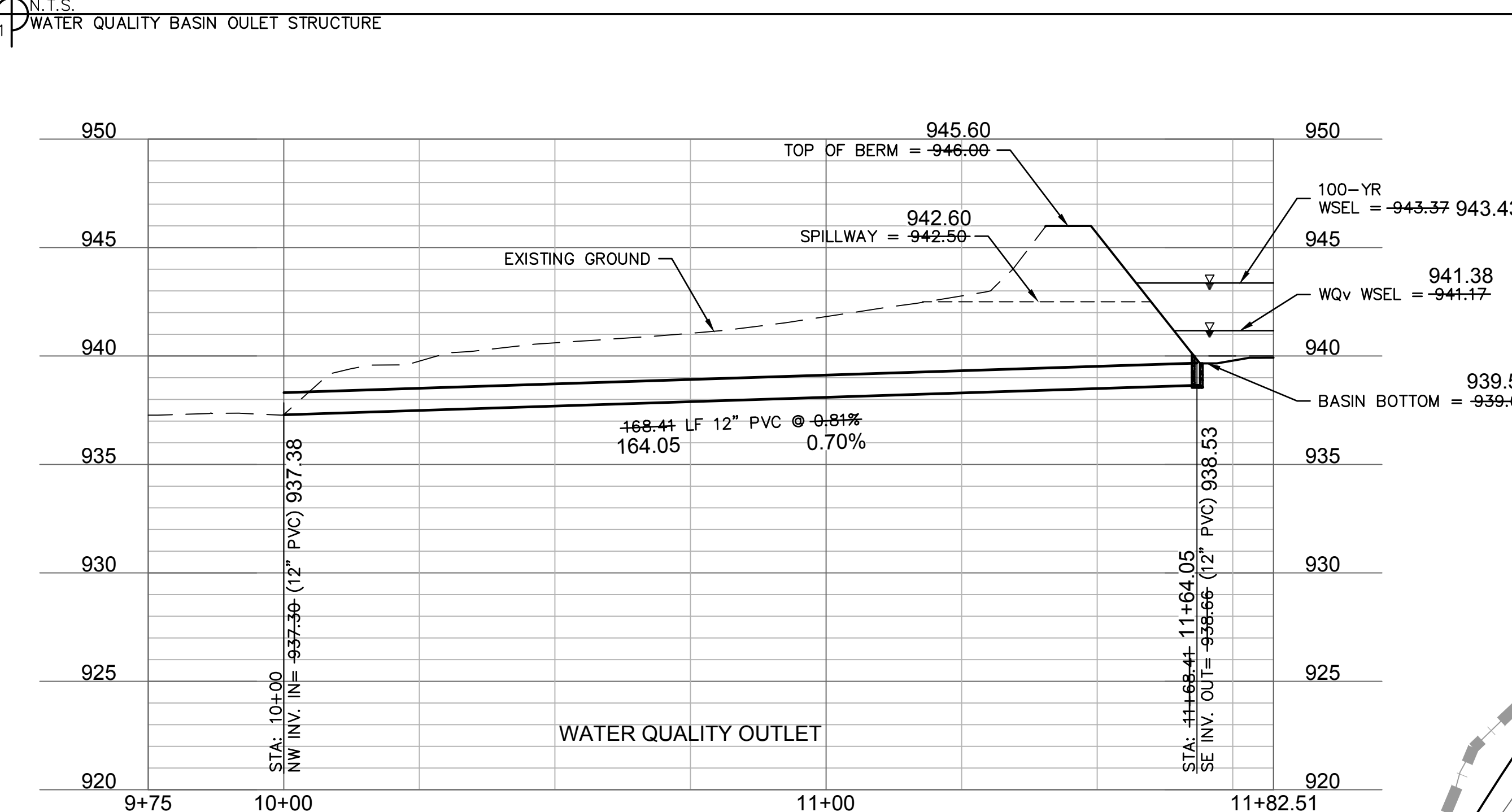
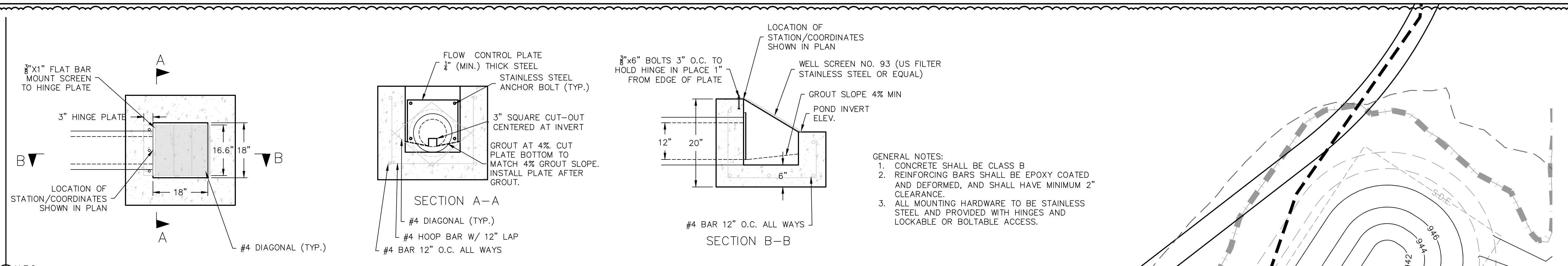
BY

STORM SEWER PLAN & PROFILE (LINES 11 & 12)  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

SHEET C142

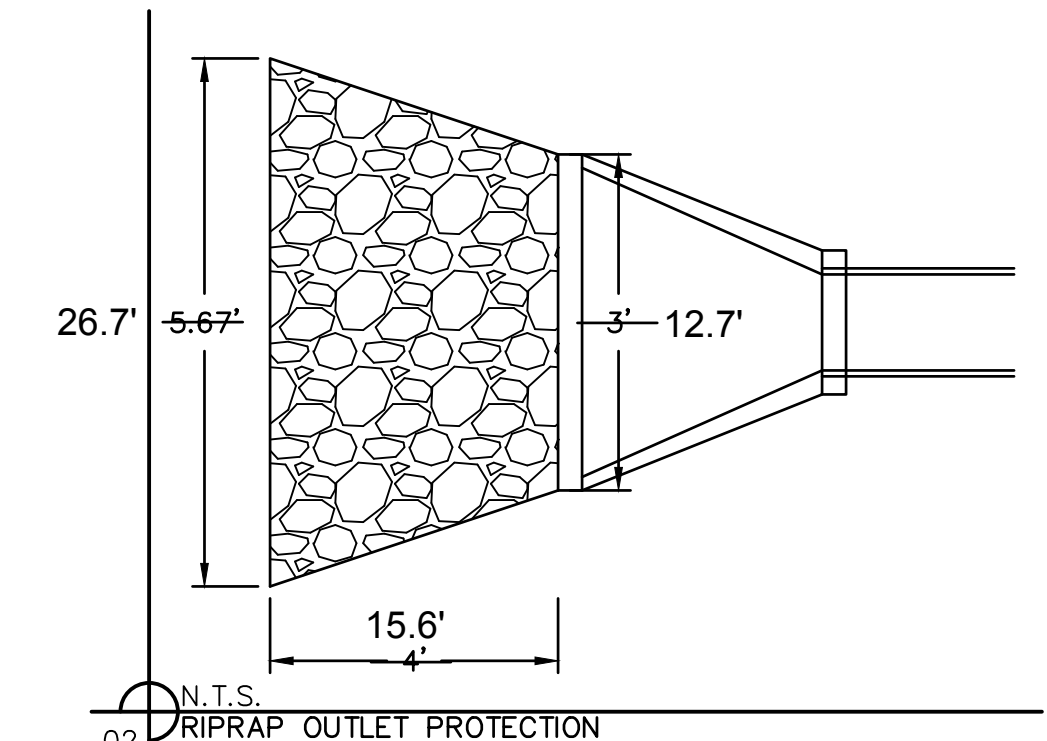
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BASIN DETAILS	
SPILLWAY TYPE	BROAD CRESTED WEIR
SPILLWAY LENGTH	75.58 FT
SPILLWAY ELEVATION	942.60 - 942.50 FT
SPILLWAY DEPTH	3.00 - 3.50 FT
DAM ELEVATION	945.60 - 946.00 FT
WATER QUALITY STORM WATER SURFACE ELEVATION	941.38 - 941.17 FT
100-YR DESIGN WATER SURFACE ELEVATION	943.43 - 943.37 FT
DESIGN STORAGE	80,201 - 109,035 CF

Riprap Calculations							
End Section	Q <sub>100</sub> (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (SY)
WQv Outlet	4.154	1	1	5	4	1.46	1.9

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



**AS BUILT**  
 DATE SURVEYED: 2022-05-26

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STATE OF MISSOURI  
**JULIE ELAINE SELLERS**  
 PROFESSIONAL ENGINEER  
 NUMBER PE-2017000367  
 12/17/22

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

WATER QUALITY BASIN PLAN  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 2021  
 LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

**SHEET C143**

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_DRN01\_B194061.dwg  
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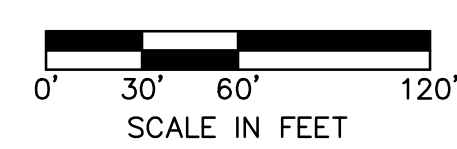
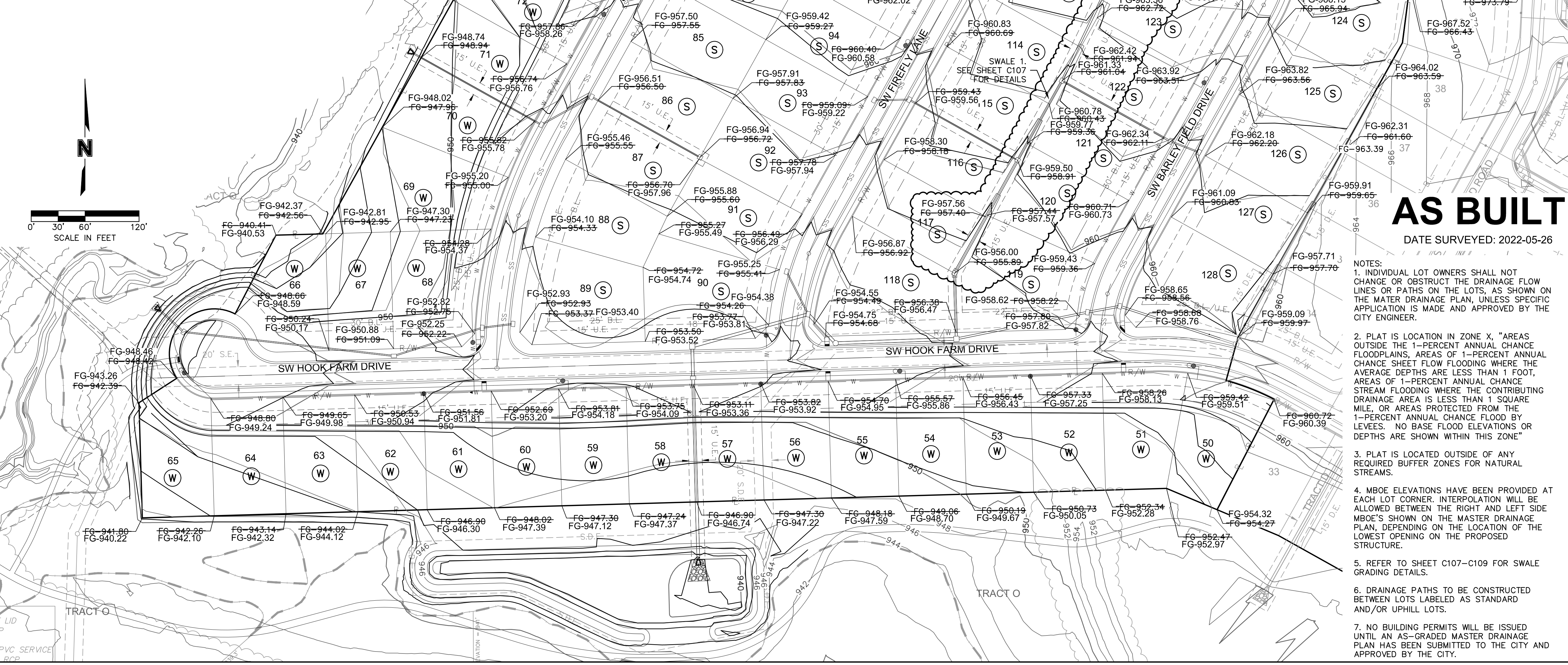
Hook Farms Second Plat			
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan Required
50	954.92	953.57	Y
51	953.57	952.88	Y
52	952.88	950.65	Y
53	950.65	950.27	Y
54	950.27	949.30	Y
55	949.30	948.19	Y
56	948.19	947.82	Y
57	947.82	947.35	Y
58	947.34	947.97	Y
59	947.97	947.72	Y
60	947.72	947.99	Y
61	947.99	946.90	Y
62	946.90	944.72	Y
63	944.72	942.92	Y
64	942.92	942.70	Y
65	973.63	940.82	Y
66	941.13	943.41	Y
67	943.41	947.90	Y
68	947.90	954.22	Y
69	943.41	948.62	Y
70	948.62	949.34	Y
71	949.34	950.54	Y
72	950.54	953.88	Y
73	953.88	956.67	Y
74	977.02	959.59	Y

Hook Farms Second Plat			
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan Required
75	958.90	977.02	Y
76	956.91	957.60	Y
77	957.60	958.44	Y
78	958.44	960.42	Y
79	981.53	975.44	Y
98	975.44	974.55	Y
99	974.55	973.89	Y
100	973.89	971.83	Y
101	971.83	974.23	Y
102	974.23	976.18	Y
103	976.18	977.87	Y
104	977.87	979.78	Y
105	979.78	981.97	Y
106	981.97	981.86	Y
113	966.25	964.26	Y
114	964.26	962.62	Y
115	962.62	961.34	Y
116	961.34	959.40	Y
117	959.40	957.84	Y
118	957.84	956.70	Y
119	957.17	958.17	Y
120	958.17	960.37	Y
121	960.37	961.93	Y
122	961.93	963.96	Y
123	963.96	966.25	Y
124	969.47	965.97	Y
125	965.97	964.26	Y
126	964.26	961.86	Y
127	961.86	959.66	Y
128	959.66	961.40	Y

NOTES:  
 MBOE - MINIMUM BUILDING OPENING ELEVATION  
 FG - FINISHED GRADE

LEGEND  
 -100 AS-BUILT SURFACE CONTOURS  
 -100 PROPOSED SURFACE CONTOURS

BASEMENT TYPES  
 (S) STANDARD  
 (W) WALKOUT  
 (D) DAYLIGHT



# AS BUILT

DATE SURVEYED: 2022-05-26

- 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 LOCATION IN ZONE X, "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANGE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANGE SHEET FLOW FLOODING WHERE THE AVERAGE DEPTHS ARE LESS THAN 1 FOOT, AREAS OF 1-PERCENT ANNUAL CHANGE STREAM FLOODING WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 SQUARE MILE, OR AREAS PROTECTED FROM THE 1-PERCENT ANNUAL CHANGE FLOOD BY LEVEES." NO BASH FLOOD ELEVATIONS OR DEPTHS ARE SHOWN WITHIN THIS ZONE"
  - PLAT IS LOCATED OUTSIDE OF ANY REQUIRED BUFFER ZONES FOR NATURAL STREAMS.
  - 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.
  - REFER TO SHEET C107-C109 FOR SWALE GRADING DETAILS.
  - DRAINAGE PATHS TO BE CONSTRUCTED BETWEEN LOTS LABELED AS STANDARD AND/OR UPHILL LOTS.
  - NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.

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REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	CHANGES TO APPROVED PLANS
3	09-30-2021	

MASTER DRAINAGE PLAN  
 STREET & STORM SEWER PLANS

HOOK FARMS  
 SECOND PLAT

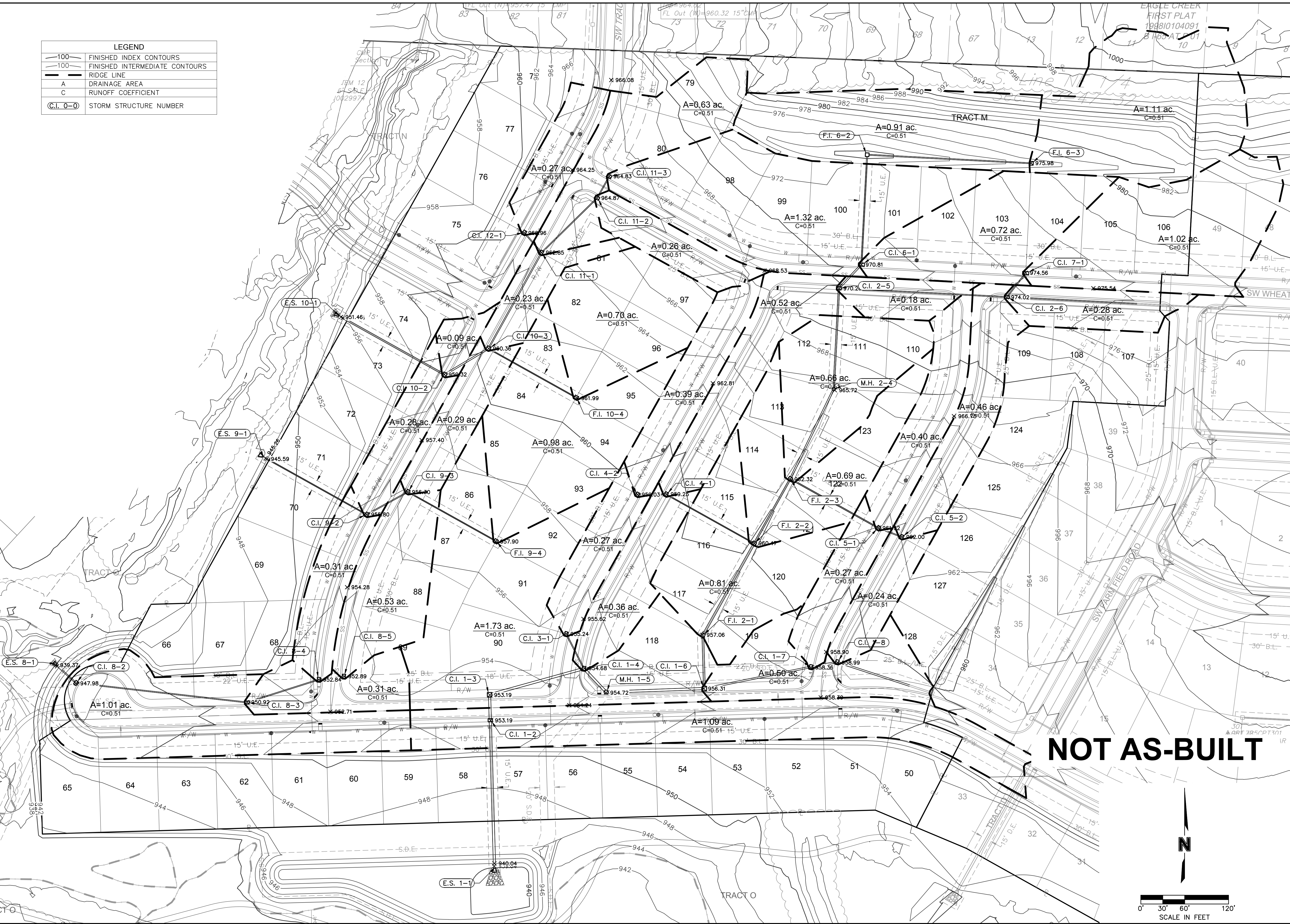
REVISIONS  
 2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

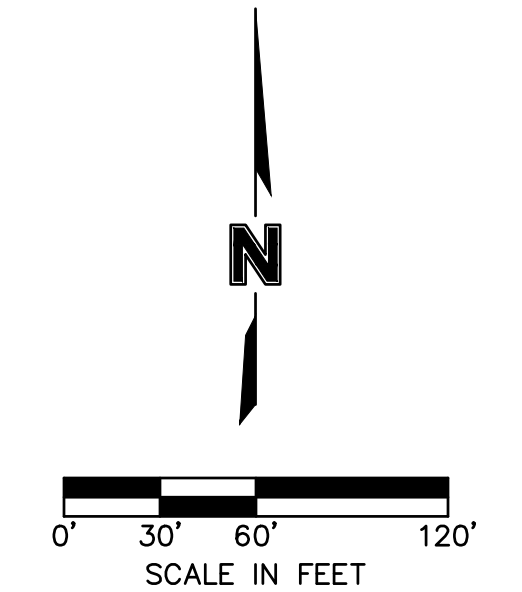
SHEET  
 C144

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

DWG: F:\2019\4001-4500\019-4061-BV40-Design\AutoCAD\Asbuilt\Sheets\GNCV\Street & Storm Plans\C\_DRN02\_B194061.dwg    USER: ssoylor  
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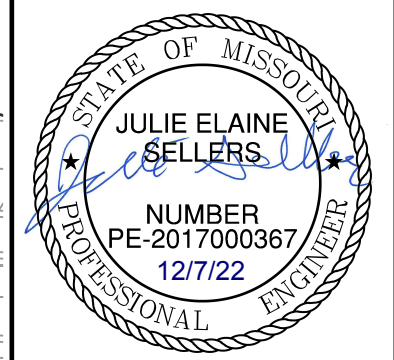


**NOT AS-BUILT**



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REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

**DRAINAGE PLAN**  
**STREET & STORM SEWER PLANS**

**HOOK FARMS**  
**SECOND PLAT**

LEE'S SUMMIT, MO    2021

drawn by: B.M.W./A.A.  
 checked by: B.M.W./A.A.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

**SHEET C145**

10 Year Return Frequency						
Inlet ID	Captured Flow (cfs)	Bypass Flow (cfs)	Inlet Efficiency (Note 2) (%)	Gutter Depth (ft)	Gutter Spread (ft)	Ponding Depth (ft)
C.I. 1-2(L)	3.36	0.00	100.00%	0.20	10.20	...
C.I. 1-2(R)	0.23	0.00	100.00%	0.07	3.74	...
C.I. 1-2	4.19	0.00	100.00%	...	...	...
C.I. 1-3(L)	0.34	0.00	100.00%	0.09	4.36	...
C.I. 1-3(R)	2.74	0.00	100.00%	0.19	9.44	...
C.I. 1-3	7.20	0.00	100.00%	...	...	...
C.I. 1-4	1.43	0.24	85.63%	0.14	7.21	...
C.I. 1-6	1.94	0.32	85.85%	0.18	8.79	...
C.I. 1-7	1.08	0.13	89.48%	0.13	6.36	...
C.I. 1-8	1.05	0.12	89.77%	0.13	6.28	...
F.I. 2-1	3.04	0.00	100.00%	...	...	0.15
F.I. 2-2	2.59	0.00	100.00%	...	...	0.13
F.I. 2-3	2.48	0.00	100.00%	...	...	0.13
C.I. 2-5	0.64	0.03	95.13%	0.11	5.27	...
C.I. 2-6	0.97	0.08	91.95%	0.12	6.22	...
C.I. 3-1	1.08	0.11	90.54%	0.13	6.47	...
C.I. 4-1	1.66	0.32	83.66%	0.16	7.76	...
C.I. 4-2	1.28	0.18	87.85%	0.14	6.92	...
C.I. 5-1	1.34	0.20	87.27%	0.14	7.05	...
C.I. 5-2	1.54	0.27	85.02%	0.15	7.50	...
C.I. 6-1	3.22	0.90	78.18%	0.21	10.38	...
F.I. 6-2	3.41	0.00	100.00%	...	...	0.16
F.I. 6-3	4.16	0.00	100.00%	...	...	0.18
C.I. 7-1	3.80	1.42	72.80%	0.23	11.35	...
C.I. 8-2(L)	2.06	0.00	100.00%	0.15	7.65	...
C.I. 8-2(R)	0.99	0.00	100.00%	0.13	6.25	...
C.I. 8-2	3.99	0.00	100.00%	...	...	...
C.I. 8-3	1.51	0.17	89.96%	0.16	7.96	...
C.I. 8-4	1.10	0.14	88.79%	0.13	6.37	...
C.I. 8-5	1.86	0.38	83.08%	0.17	8.31	...
C.I. 9-2	0.98	0.08	92.39%	0.13	6.34	...
C.I. 9-3	1.59	0.25	86.30%	0.16	7.76	...
F.I. 9-4	3.68	0.00	100.00%	...	...	0.17
C.I. 10-2	0.33	0.01	97.51%	0.08	3.88	...
C.I. 10-3	1.85	0.41	81.75%	0.16	8.20	...
F.I. 10-4	2.63	0.00	100.00%	...	...	0.14
C.I. 11-1	3.20	1.41	69.52%	0.22	11.03	...
C.I. 11-2	0.91	0.07	92.93%	0.12	6.12	...
C.I. 11-3	3.67	2.18	62.75%	0.24	11.98	...
C.I. 12-1	0.94	0.07	92.82%	0.12	6.25	...
F.I. 9-4	3.68	0.00	100.00%	...	...	0.17
C.I. 10-2	0.33	0.01	97.51%	0.08	3.88	...
C.I. 10-3	1.85	0.41	81.75%	0.16	8.20	...
F.I. 10-4	2.63	0.00	100.00%	...	...	0.14
C.I. 11-1	3.20	1.41	69.52%	0.22	11.03	...
C.I. 11-2	0.91	0.07	92.93%	0.12	6.12	...
C.I. 11-3	3.67	2.18	62.75%	0.24	11.98	...
C.I. 12-1	0.94	0.07	92.82%	0.12	6.25	...

Drainage Area Design Table						
10 Year Return Frequency						
Inlet ID	Drainage Area (ac)	C	Tc (min)	i (in/hr)	K	Peak Flow (cfs)
C.I. 1-2(L)	0.87	0.51	5.00	7.35	1.00	3.26
C.I. 1-2(R)	0.06	0.51	5.00	7.35	1.00	0.23
C.I. 1-2(B)	0.16	0.51	5.00	7.35	1.00	0.60
C.I. 1-2	1.09	0.51	5.00	7.35	1.00	4.09
C.I. 1-3(L)	0.09	0.51	5.00	7.35	1.00	0.34
C.I. 1-3(R)	0.55	0.51	5.00	7.35	1.00	2.06
C.I. 1-3(B)	1.10	0.51	5.00	7.35	1.00	4.13
C.I. 1-3	1.74	0.51	5.00	7.35	1.00	6.53
C.I. 1-4	0.36	0.51	5.00	7.35	1.00	1.35
C.I. 1-6	0.50	0.51	5.00	7.35	1.00	1.88
C.I. 1-7	0.27	0.51	5.00	7.35	1.00	1.01
C.I. 1-8	0.24	0.51	5.00	7.35	1.00	0.90
F.I. 2-1	0.81	0.51	5.00	7.35	1.00	3.04
F.I. 2-2	0.69	0.51	5.00	7.35	1.00	2.59
F.I. 2-3	0.66	0.51	5.00	7.35	1.00	2.48
C.I. 2-5	0.18	0.51	5.00	7.35	1.00	0.68
C.I. 2-6	0.28	0.51	5.00	7.35	1.00	1.05
C.I. 3-1	0.27	0.51	5.00	7.35	1.00	1.01
C.I. 4-1	0.52	0.51	5.00	7.35	1.00	1.95
C.I. 4-2	0.39	0.51	5.00	7.35	1.00	1.46
C.I. 5-1	0.40	0.51	5.00	7.35	1.00	1.50
C.I. 5-2	0.46	0.51	5.00	7.35	1.00	1.73
C.I. 6-1	0.72	0.51	5.00	7.35	1.00	2.70
F.I. 6-2	0.91	0.51	5.00	7.35	1.00	3.41
F.I. 6-3	1.11	0.51	5.00	7.35	1.00	4.16
C.I. 7-1	1.02	0.51	5.00	7.35	1.00	3.83
C.I. 8-2(L)	0.55	0.51	5.00	7.35	1.00	2.06
C.I. 8-2(R)	0.22	0.51	5.00	7.35	1.00	0.83
C.I. 8-2(B)	0.25	0.51	5.00	7.35	1.00	0.94
C.I. 8-2	1.02	0.51	5.00	7.35	1.00	3.83
C.I. 8-3	0.31	0.51	5.00	7.35	1.00	1.16
C.I. 8-4	0.31	0.51	5.00	7.35	1.00	1.16
C.I. 8-5	0.53	0.51	5.00	7.35	1.00	1.99
C.I. 9-2	0.28	0.51	5.00	7.35	1.00	1.05
C.I. 9-3	0.38	0.51	5.00	7.35	1.00	1.43
F.I. 9-4	0.98	0.51	5.00	7.35	1.00	3.68
C.I. 10-2	0.09	0.51	5.00	7.35	1.00	0.34
C.I. 10-3	0.23	0.51	5.00	7.35	1.00	0.86
F.I. 10-4	0.70	0.51	5.00	7.35	1.00	2.63
C.I. 11-1	0.63	0.51	5.00	7.35	1.00	2.36
C.I. 11-2	0.26	0.51	5.00	7.35	1.00	0.98
C.I. 11-3	1.32	0.51	5.00	7.35	1.00	4.95
C.I. 12-1	0.27	0.51	5.00	7.35	1.00	1.01

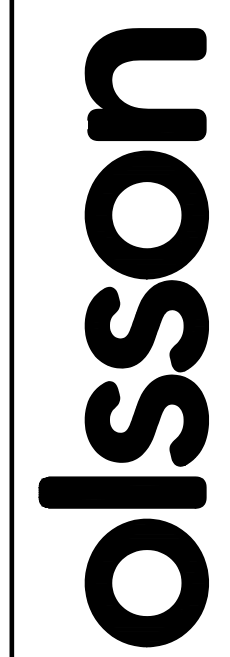
Storm Sewer Design Calculation Table													
10 Year Return Frequency													
Upstream Structure	Downstream Structure	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)	Upstream Top Elev. (ft)
C.I. 1-2	E.S. 1-1	202.00	942.02	940.00	1.00	36	0.012	65.27	10.82	72.25	2.23	944.61	952.95
C.I. 1-3	C.I. 1-2	35.00	942.83	942.52	0.86	36	0.012	61.08	10.33	68.99	2.19	945.35	952.95
C.I. 1-4	C.I. 1-3	133.97	944.39	943.32	0.80	36	0.012	53.88	9.58	64.51	2.10	946.77	954.53
M.H. 1-5	C.I. 1-4	44.30	945.24	944.89	0.79	36	0.012	51.37	9.41	64.22	2.03	947.57	954.65
C.I. 1-6	M.H. 1-5	134.49	946.82	945.74	0.80	36	0.012	51.37	9.44	64.75	2.02	949.15	956.22
C.I. 1-7	C.I. 1-6	148.70	949.01	947.82	0.80	24	0.012	16.30	7.01	21.91	1.33	950.46	958.22
C.I. 1-8	C.I. 1-7	36.74	949.80	949.51	0.79	24	0.012	15.22	6.97	21.77	1.23	951.21	958.58
NULL ON LINE 1	C.I. 1-8	104.17	951.34	950.30	1.00	24	0.012	14.17	7.17	24.48	1.09	952.69	953.52
F.I. 2-1	C.I. 1-6	72.94	948.43	947.32	1.52	30	0.012	34.08	8.46	54.44	1.85	950.41	956.89
F.I. 2-2	F.I. 2-1	144.00	950.89	948.93	1.36	30	0.012	30.54	8.99	51.83	1.46	952.77	959.91
F.I. 2-3	F.I. 2-2	101.30	953.42	951.39	2.00	24	0.012	25.01	9.67	34.69	1.38	955.18	962.04
M.H. 2-4	F.I. 2-3	136.61	956.99	953.92	2.25	24	0.012	19.65	8.37	36.73	1.26	958.58	965.63
C.I. 2-5	M.H. 2-4	138.00	962.32	957.49	3.50	24	0.012	19.65	9.27	45.84	1.09	963.91	970.31
C.I. 2-6	C.I. 2-5	230.00	967.30	963.07	1.84	15	0.012	8.72	8.09	9.49	0.94	968.44	973.99
NULL ON LINE 2	C.I. 2-6	178.30	969.58	967.80	1.00	15	0.012	3.95	5.30	6.99	0.67	970.38	970.95
C.I. 3-1	C.I. 1-4	53.27	947.21	946.14	2.01	15	0.012	1.08	2.42	9.91	0.63	947.62	955.25
C.I. 4-1	F.I. 2-2	138.00	953.24	952.14	0.80	15	0.012	2.94	4.48	6.25	0.63	953.93	959.27
C.I. 4-2	C.I. 4-1	39.15	954.05	953.74	0.79	15	0.012	1.28	3.62	6.22	0.38	954.50	958.93
C.I. 5-1	F.I. 2-3	138.00	955.30	953.92	1.00	18	0.012	2.88	2.89	11.38	1.26	955.94	961.95
C.I. 5-2	C.I. 5-1	34.34	956.14	955.80	0.99	15	0.012	1.54	4.00	6.96	0.40	956.63	962.04
C.I. 6-1	C.I. 2-5	44.69	963.21	962.82	0.87	24	0.012	10.29	5.69	22.89	1.09	964.36	970.78
F.I. 6-2	C.I. 6-1	150.50	964.91	963.71	0.80	18	0.012	7.57	5.97	10.16	0.96	965.97	970.06
F.I. 6-3	F.I. 6-2	225.00	970.47	965.41	2.25	15	0.012	4.16	6.45	10.49	0.55	971.29	975.91
C.I. 7-1	C.I. 2-6	41.62	968.22	967.80	1.01	15	0.012	3.80	5.25	7.83	0.66	969.04	974.37
C.I. 8-2	E.S. 8-1	38.74	939.82	939.57	0.65	18	0.012	8.46	5.88	9.14	1.13	940.97	946.73
C.I. 8-3	C.I. 8-2	235.47	942.67	940.32	1.00	15	0.012	4.47	4.98	6.99	0.86	943.53	950.92
C.I. 8-4	C.I. 8-3	103.13	944.46	943.17	1.25	15	0.012	2.96	5.09	7.82	0.53	945.15	952.80
C.I. 8-5	C.I. 8-4	34.61	945.39	944.96	1.24	15	0.012	1.86	4.43	7.80	0.42	945.93	952.88
C.I. 9-2	E.S. 9-1	162.45	947.12	945.82	0.80	15	0.012	5.73	5.70	6.26	0.94	948.09	955.66
C.I. 9-3	C.I. 9-2	64.21	948.90	947.62	1.99	15	0.012	4.75	6.55	9.88	0.61	949.78	956.35
F.I. 9-4	C.I. 9-3	138.00	951.13	949.40	1.25	15	0.012	3.68	5.44	7.83	0.60	951.90	957.72
C.I. 10-2	E.S. 10-1	165.47	953.14	951.81	0.80	24	0.012	13.10	6.67	21.93	1.11	954.44	959.29
C.I. 10-3	C.I. 10-2	69.88	954.20	953.64	0.79	24	0.012	12.77	6.63	22.01	1.09	955.48	960.55
F.I. 10-4	C.I. 10-3	137.50	956.05	954.95	0.80	15	0.012	2.63	4.48	6.25	0.57	956.70	961.70
C.I. 11-1	C.I. 10-3	150.00	955.90	954.70	0.80	18	0.012	8.72	6.26	10.18	1.07	957.04	962.77
C.I. 11-2	C.I. 11-1	106.77	958.00	956.40	1.50	15	0.012	4.58	6.07	8.56	0.65	958.87	964.79
C.I. 11-3	C.I. 11-2	34.00	958.84	958.50	1.00	15	0.012	3.67	5.19	7.00	0.64	959.61	964.79
C.I. 12-1	C.I. 11-1	36.23	956.76	956.40	0.99	15	0.012	0.94	2.				

Inlet Design Table						
100 Year Return Frequency						
Inlet ID	Captured Flow	Bypass Flow	Inlet Efficiency	Gutter Depth	Gutter Spread	Ponding Depth
	(cfs)	(cfs)	(%)	(ft)	(ft)	(ft)
C.I. 1-2(L)	6.19	0.00	100.00%	0.26	12.82	...
C.I. 1-2(R)	0.39	0.00	100.00%	0.09	4.62	...
C.I. 1-2	7.63	0.00	100.00%	...	...	...
C.I. 1-3(L)	0.59	0.00	100.00%	0.11	5.38	...
C.I. 1-3(R)	6.36	0.00	100.00%	0.26	12.96	...
C.I. 1-3	14.19	0.00	100.00%	...	...	...
C.I. 1-4	2.44	0.89	73.20%	0.19	9.34	...
C.I. 1-6	3.55	1.43	71.29%	0.24	11.81	...
C.I. 1-7	1.90	0.48	79.74%	0.16	8.20	...
C.I. 1-8	1.92	0.50	79.31%	0.17	8.25	...
F.I. 2-1	5.33	0.00	100.00%	...	...	0.22
F.I. 2-2	4.54	0.00	100.00%	...	...	0.19
F.I. 2-3	4.34	0.00	100.00%	...	...	0.19
C.I. 2-5	1.08	0.11	90.84%	0.13	6.50	...
C.I. 2-6	1.58	0.26	85.66%	0.15	7.68	...
C.I. 3-1	1.89	0.42	81.80%	0.17	8.30	...
C.I. 4-1	2.57	0.96	72.69%	0.19	9.63	...
C.I. 4-2	2.03	0.53	79.27%	0.17	8.55	...
C.I. 5-1	2.14	0.60	78.02%	0.18	8.76	...
C.I. 5-2	2.44	0.85	74.25%	0.19	9.38	...
C.I. 6-1	5.35	4.17	56.23%	0.28	14.21	...
F.I. 6-2	5.99	0.00	100.00%	...	...	0.23
F.I. 6-3	7.30	0.00	100.00%	...	...	0.27
C.I. 7-1	5.55	4.78	53.73%	0.29	14.65	...
C.I. 8-2(L)	3.62	0.00	100.00%	0.19	9.45	...
C.I. 8-2(R)	2.87	0.00	100.00%	0.19	9.30	...
C.I. 8-2	8.13	0.00	100.00%	...	...	...
C.I. 8-3	3.64	1.42	71.92%	0.24	12.02	...
C.I. 8-4	1.83	0.46	79.78%	0.16	8.02	...
C.I. 8-5	3.80	2.55	59.83%	0.25	12.28	...
C.I. 9-2	1.62	0.26	86.25%	0.16	7.85	...
C.I. 9-3	4.00	2.86	58.28%	0.25	12.72	...
F.I. 9-4	6.45	0.00	100.00%	...	...	0.25
C.I. 10-2	0.56	0.03	94.87%	0.10	4.79	...
C.I. 10-3	4.19	4.36	49.04%	0.27	13.48	...
F.I. 10-4	4.61	0.00	100.00%	...	...	0.20
C.I. 11-1	5.09	7.04	41.98%	0.32	15.85	...
C.I. 11-2	1.49	0.22	87.24%	0.15	7.56	...
C.I. 11-3	5.08	7.77	39.56%	0.32	16.10	...
C.I. 12-1	1.55	0.23	87.07%	0.15	7.71	...

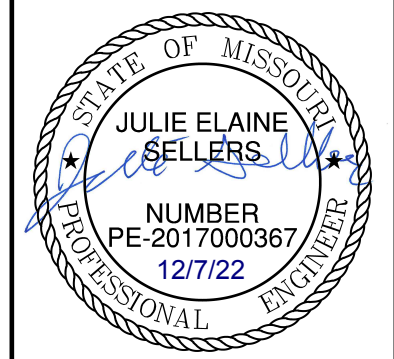
Drainage Area Design Table						
100 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
C.I. 1-2(L)	0.87	0.51	5.00	10.32	1.25	5.73
C.I. 1-2(R)	0.06	0.51	5.00	10.32	1.25	0.39
C.I. 1-2(B)	0.16	0.51	5.00	10.32	1.25	1.05
C.I. 1-2	1.09	0.51	5.00	10.32	1.25	7.17
C.I. 1-3(L)	0.09	0.51	5.00	10.32	1.25	0.59
C.I. 1-3(R)	0.55	0.51	5.00	10.32	1.25	3.62
C.I. 1-3(B)	1.10	0.51	5.00	10.32	1.25	7.24
C.I. 1-3	1.74	0.51	5.00	10.32	1.25	11.45
C.I. 1-4	0.36	0.51	5.00	10.32	1.25	2.37
C.I. 1-6	0.50	0.51	5.00	10.32	1.25	3.29
C.I. 1-7	0.27	0.51	5.00	10.32	1.25	1.78
C.I. 1-8	0.24	0.51	5.00	10.32	1.25	1.58
F.I. 2-1	0.81	0.51	5.00	10.32	1.25	5.33
F.I. 2-2	0.69	0.51	5.00	10.32	1.25	4.54
F.I. 2-3	0.66	0.51	5.00	10.32	1.25	4.34
C.I. 2-5	0.18	0.51	5.00	10.32	1.25	1.18
C.I. 2-6	0.28	0.51	5.00	10.32	1.25	1.84
C.I. 3-1	0.27	0.51	5.00	10.32	1.25	1.78
C.I. 4-1	0.52	0.51	5.00	10.32	1.25	3.42
C.I. 4-2	0.39	0.51	5.00	10.32	1.25	2.57
C.I. 5-1	0.40	0.51	5.00	10.32	1.25	2.63
C.I. 5-2	0.46	0.51	5.00	10.32	1.25	3.03
C.I. 6-1	0.72	0.51	5.00	10.32	1.25	4.74
F.I. 6-2	0.91	0.51	5.00	10.32	1.25	5.99
F.I. 6-3	1.11	0.51	5.00	10.32	1.25	7.30
C.I. 7-1	1.02	0.51	5.00	10.32	1.25	6.71
C.I. 8-2(L)	0.55	0.51	5.00	10.32	1.25	3.62
C.I. 8-2(R)	0.22	0.51	5.00	10.32	1.25	1.45
C.I. 8-2(B)	0.25	0.51	5.00	10.32	1.25	1.65
C.I. 8-2	1.02	0.51	5.00	10.32	1.25	6.71
C.I. 8-3	0.31	0.51	5.00	10.32	1.25	2.04
C.I. 8-4	0.31	0.51	5.00	10.32	1.25	2.04
C.I. 8-5	0.53	0.51	5.00	10.32	1.25	3.49
C.I. 9-2	0.28	0.51	5.00	10.32	1.25	1.84
C.I. 9-3	0.38	0.51	5.00	10.32	1.25	2.50
F.I. 9-4	0.98	0.51	5.00	10.32	1.25	6.45
C.I. 10-2	0.09	0.51	5.00	10.32	1.25	0.59
C.I. 10-3	0.23	0.51	5.00	10.32	1.25	1.51
F.I. 10-4	0.70	0.51	5.00	10.32	1.25	4.61
C.I. 11-1	0.63	0.51	5.00	10.32	1.25	4.15
C.I. 11-2	0.26	0.51	5.00	10.32	1.25	1.71
C.I. 11-3	1.32	0.51	5.00	10.32	1.25	8.69
C.I. 12-1	0.27	0.51	5.00	10.32	1.25	1.78

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)	Upstream Top Elev. (ft)
C.I. 1-2	E.S. 1-1	202.00	942.02	940.00	1.00	36	0.012	100.26	14.26	72.25	2.90	946.61	952.95
C.I. 1-3	C.I. 1-2	35.00	942.83	942.52	0.66	36	0.012	92.63	13.11	66.99	3.06	946.11	952.95
C.I. 1-4	C.I. 1-3	133.97	944.39	943.32	0.80	36	0.012	78.44	11.10	64.51	3.00	950.76	954.53
M.H. 1-5	C.I. 1-4	44.30	945.24	944.89	0.79	36	0.012	74.11	10.49	64.22	3.00	951.99	954.65
C.I. 1-6	M.H. 1-5	134.49	946.82	945.74	0.80	36	0.012	74.11	10.49	64.75	3.00	954.09	956.22
C.I. 1-7	C.I. 1-6	148.70	949.01	947.82	0.80	24	0.012	17.99	5.73	21.91	2.00	955.58	958.22
C.I. 1-8	C.I. 1-7	36.74	949.80	949.51	0.79	24	0.012	16.09	5.12	21.77	2.00	955.89	958.58
NULL ON LINE 1	C.I. 1-8	104.17	951.34	950.30	1.00	24	0.012	14.17	4.51	24.48	2.00	956.36	953.52
F.I. 2-1	C.I. 1-6	948.43	947.32	1.52	30	0.012	54.19	11.04	54.44	2.50	956.33	956.89	
F.I. 2-2	F.I. 2-1	144.00	950.89	948.93	1.36	30	0.012	48.00	9.78	51.83	2.50	958.21	959.91
F.I. 2-3	F.I. 2-2	101.30	953.42	951.39	2.00	24	0.012	38.86	12.37	34.69	2.00	961.35	962.04
M.H. 2-4	F.I. 2-3	136.61	956.99	953.92	2.25	24	0.012	29.94	9.53	36.73	2.00	964.35	965.63
C.I. 2-5	M.H. 2-4	138.00	962.32	957.49	3.50	24	0.012	29.94	9.53	45.84	2.00	966.83	970.31
C.I. 2-6	C.I. 2-5	230.00	967.30	963.07	1.84	15	0.012	11.08	9.03	9.49	1.25	973.17	973.99
NULL ON LINE 2	C.I. 2-6	178.30	969.58	967.80	1.00	15	0.012	3.95	3.22	6.99	1.25	974.24	970.95
C.I. 3-1	C.I. 1-4	53.27	947.21	946.14	2.01	15	0.012	1.89	1.54	9.91	1.25	951.57	955.25
C.I. 4-1	F.I. 2-2	138.00	953.24	952.14	0.80	15	0.012	4.60	3.75	6.25	1.25	959.40	959.27
C.I. 4-2	C.I. 4-1	39.15	954.05	953.74	0.79	15	0.012	2.03	1.65	6.22	1.25	959.50	958.93
C.I. 5-1	F.I. 2-3	138.00	955.30	953.92	1.00	18	0.012	4.58	2.59	11.38	1.50	962.53	961.95
C.I. 5-2	C.I. 5-1	34.34	956.14	955.80	0.99	15	0.012	2.44	1.99	6.96	1.25	962.60	962.04
C.I. 6-1	C.I. 2-5	44.69	963.21	962.82	0.87	24	0.012	17.78	5.66	22.89	2.00	967.63	970.78
F.I. 6-2	C.I. 6-1	150.50	964.91	963.71	0.80	18	0.012	13.29	7.52	10.16	1.50	971.03	970.06
F.I. 6-3	F.I. 6-2	225.00	970.47	965.41	2.25	15	0.012	7.30	5.95	10.49	1.25	972.39	975.91
C.I. 7-1	C.I. 2-6	41.62	968.22	967.80	1.01	15	0.012	5.55	4.52	7.03	1.25	973.94	974.37
C.I. 8-2	E.S. 8-1	38.74	939.82	939.57	0.65	18	0.012	17.40	9.91	9.14	1.44	941.90	946.73
C.I. 8-3	C.I. 8-2	235.47	942.67	940.32	1.00	15	0.012	9.27	7.55	6.99	1.25	946.64	950.92
C.I. 8-4	C.I. 8-3	103.13	944.46	943.17	1.25	15	0.012	5.63	4.59	7.82	1.25	947.57	952.80
C.I. 8-5	C.I. 8-4	34.61	945.39	944.96	1.24	15	0.012	3.80	3.10	7.80	1.25	947.77	952.88
C.I. 9-2	E.S. 9-1	162.45	947.12	945.82	0.80	15	0.012	11.20	9.13	6.26	1.25	952.40	955.66
C.I. 9-3	C.I. 9-2	64.21	948.90	947.62	1.99	15	0.012	9.58	7.81	9.88	1.25	954.12	956.35
F.I. 9-4	C.I. 9-3	138.00	951.13	949.40	1.25	15	0.012	6.45	5.26	7.83	1.25	956.73	957.72
C.I. 10-2	E.S. 10-1	165.47	953.14	951.81	0.80	24	0.012	21.85	7.88	21.93	1.63	954.81	959.29
C.I. 10-3	C.I. 10-2	69.88	954.20	953.64	0.79	24	0.012	21.29	7.83	22.01	1.58	955.85	960.55
F.I. 10-4	C.I. 10-3	137.50	956.05	954.95	0.80	15	0.012	4.61	4.90	6.25	0.92	956.92	961.70
C.I. 11-1	C.I. 10-3	150.00	955.90	954.70	0.80	18	0.012	13.21	7.48	10.18	1.50	958.22	962.77
C.I. 11-2	C.I. 11-1	106.77	958.00	956.40	1.50	15	0.012	6.57	5.35	8.56	1.25	959.51	964.79
C.I. 11-3	C.I. 11-2	34.00	958.84	958.50	1.00	15	0.012	5.08	4.80	7.00	1.15	959.75	964.79
C.I. 12-1	C.I. 11-1	36.23	956.76	956.40	0.99	15	0.012	1.55	1.26	6.97	1.25	958.59	962.95

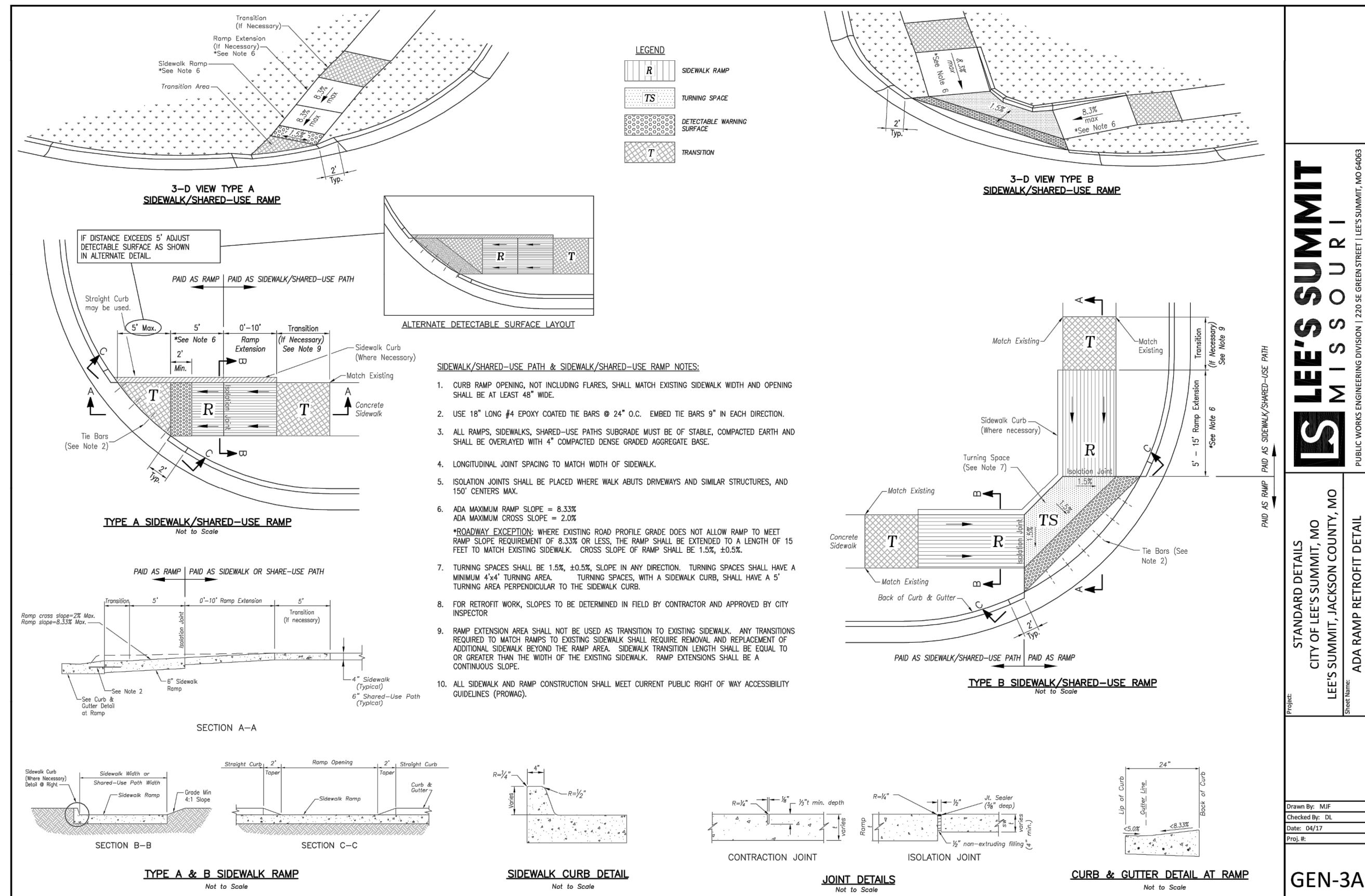
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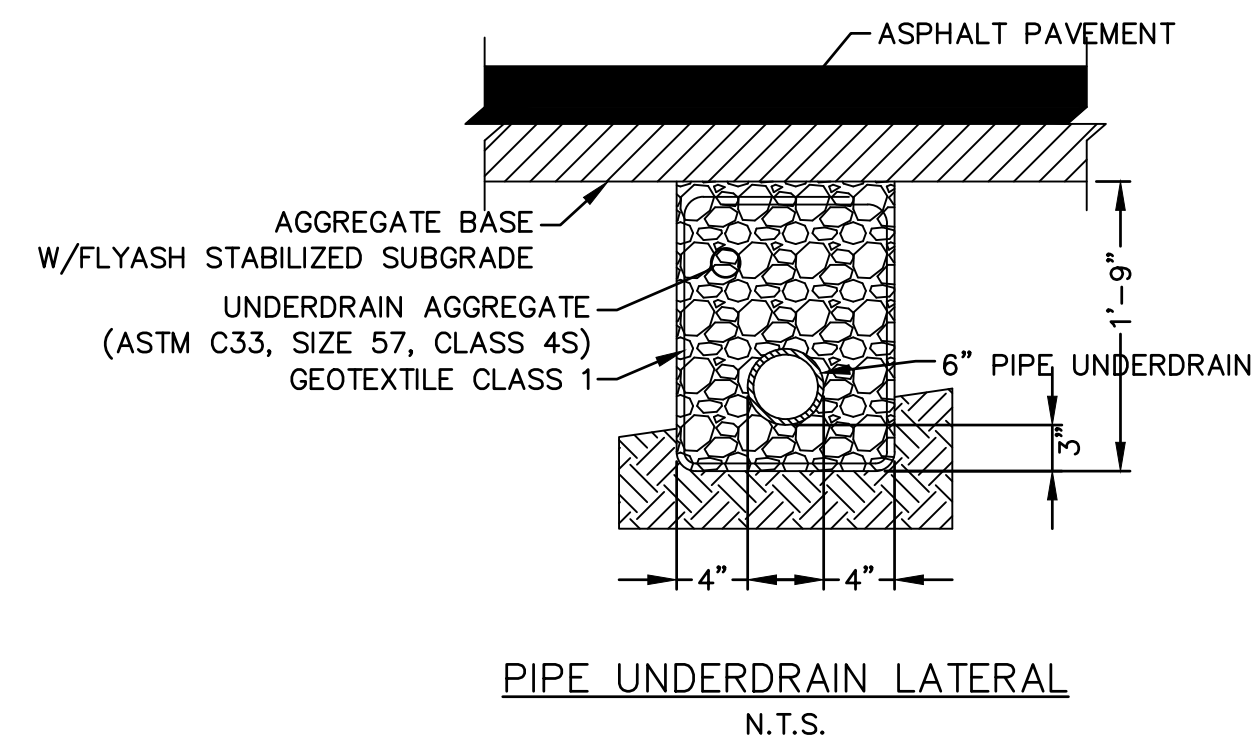
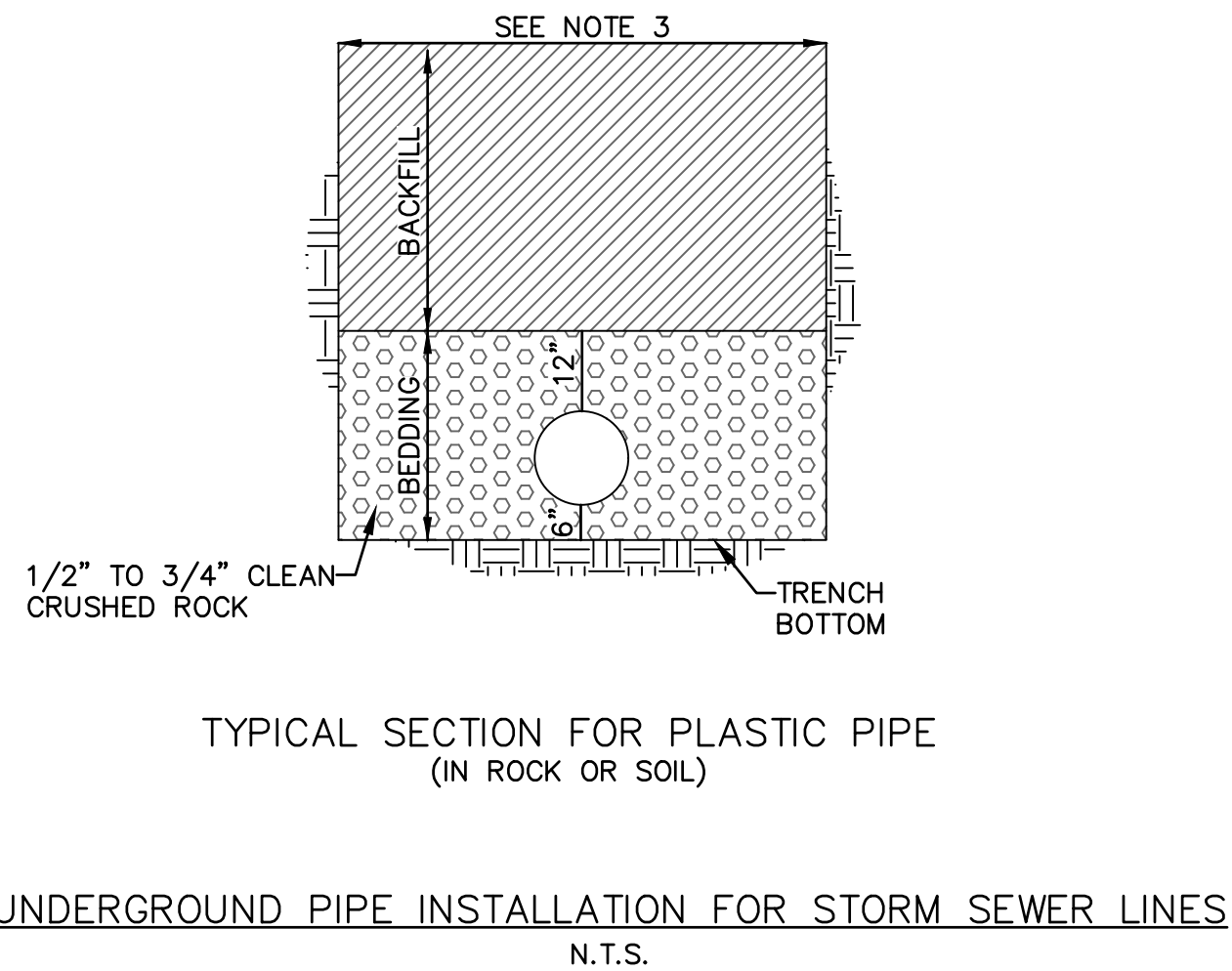
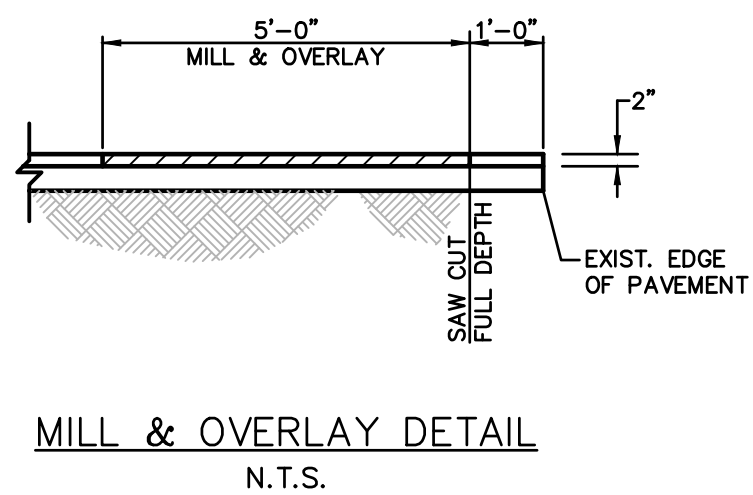


**LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 220 S. GREEN STREET | LEE'S SUMMIT, MO 64083

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

Drawn By: MJP  
 Checked By: JES  
 Date: 06/17  
 Proj. #: GEN-3A

GEN-3A

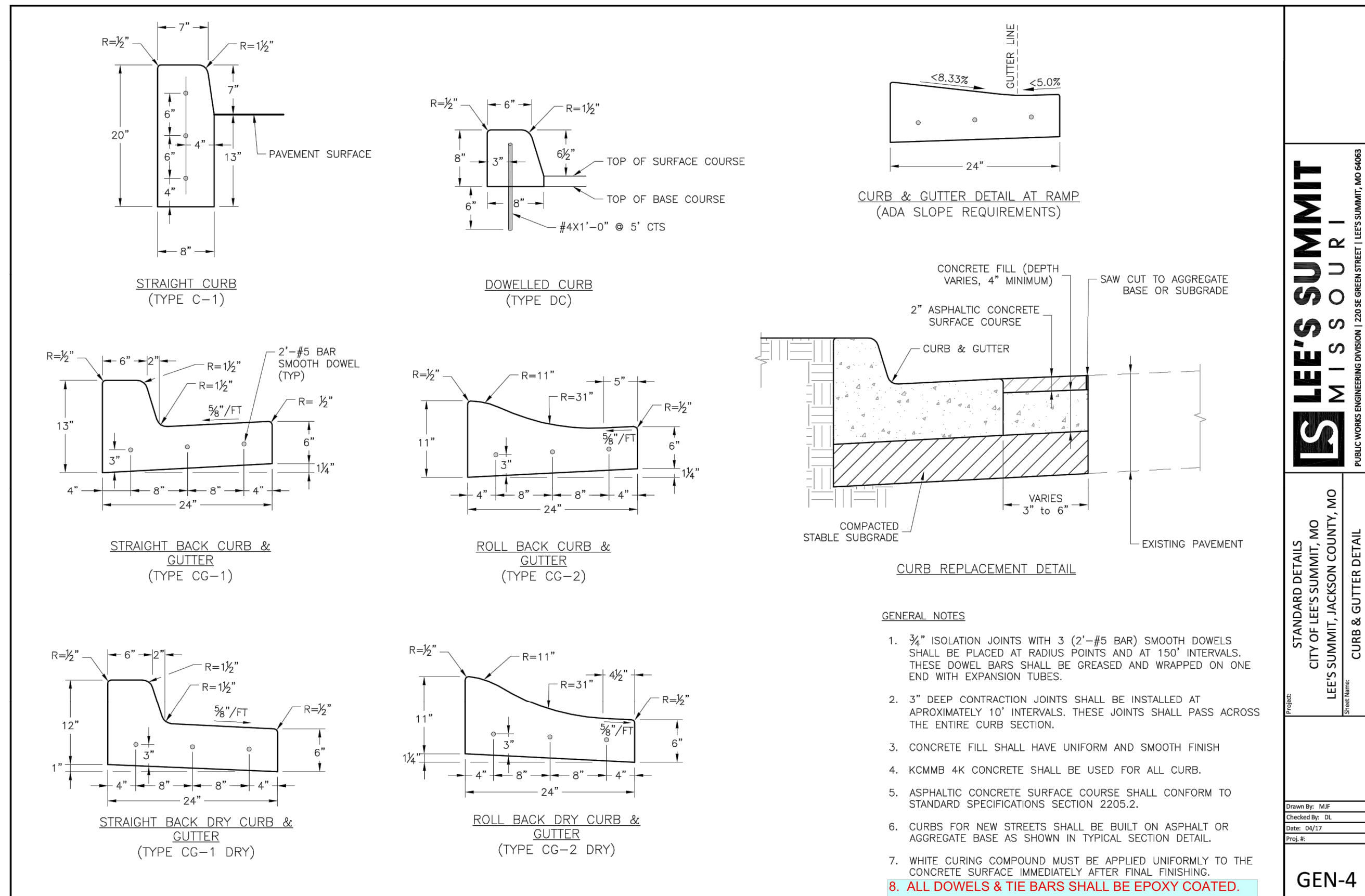


- NOTES:**
- Where Pipe Underdrains are used, all Underdrain Outlet Pipes shall be solid wall with watertight joints. All Outlets Pipes shall be tied into the nearest storm sewer inlets at roadway sag locations as indicated in the street profile.
  - All Underdrain Pipes shall be installed at a minimum 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".

**NOT AS-BUILT**

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
 designed by: B.M.W./A.A.  
 QA/QC by: J.E.S.  
 project no.: B19-4061  
 date: 01-08-2021

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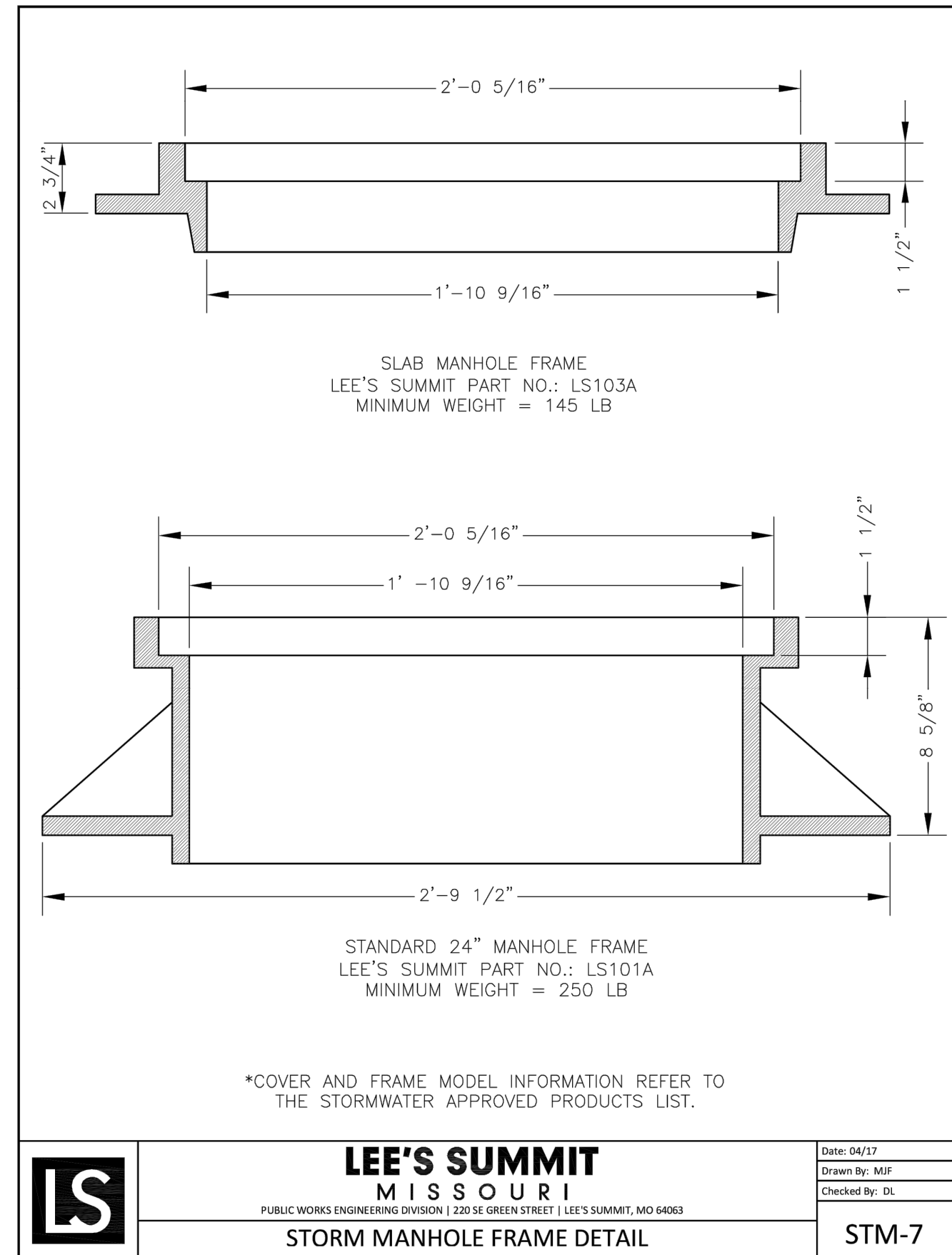
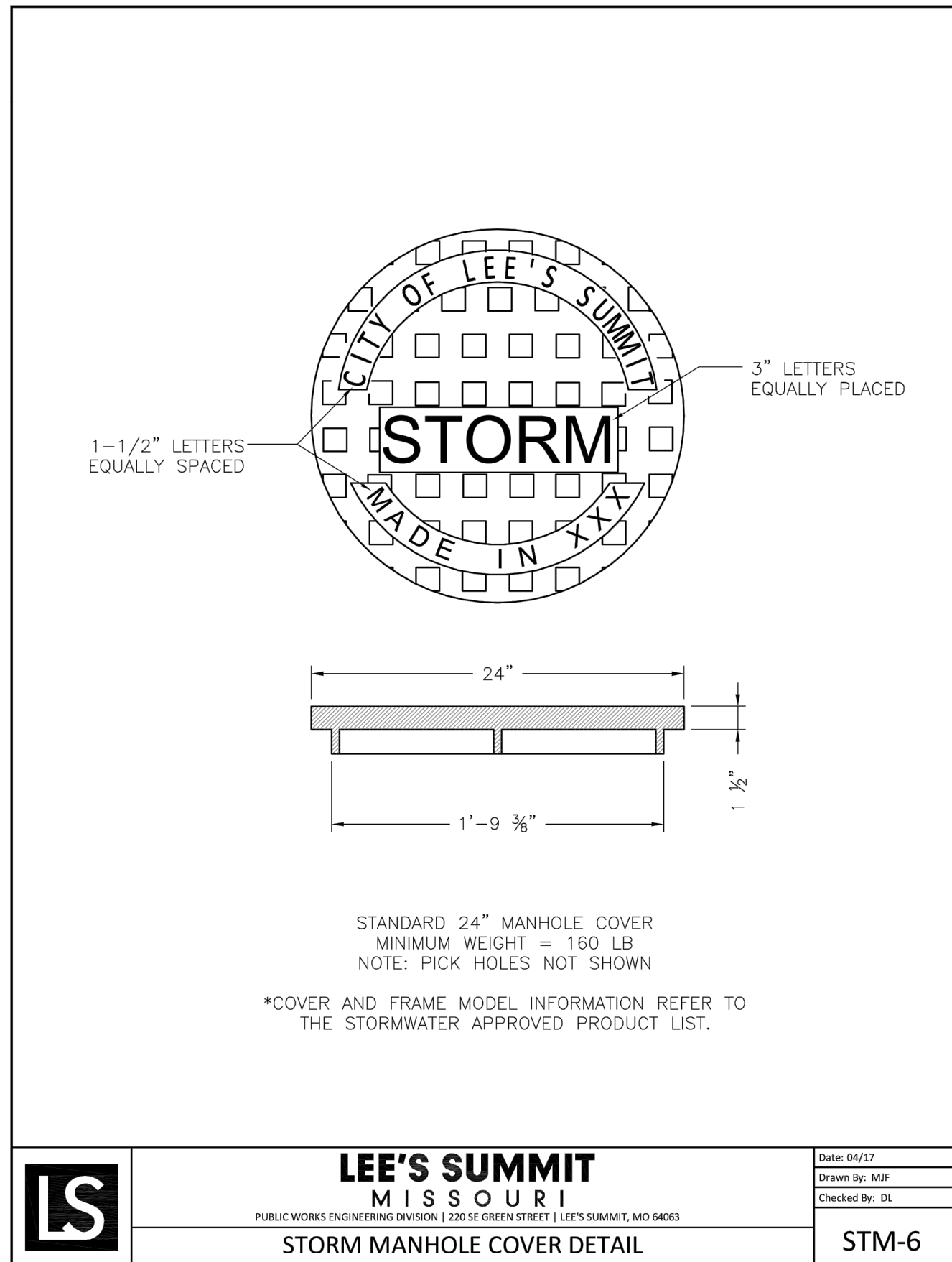
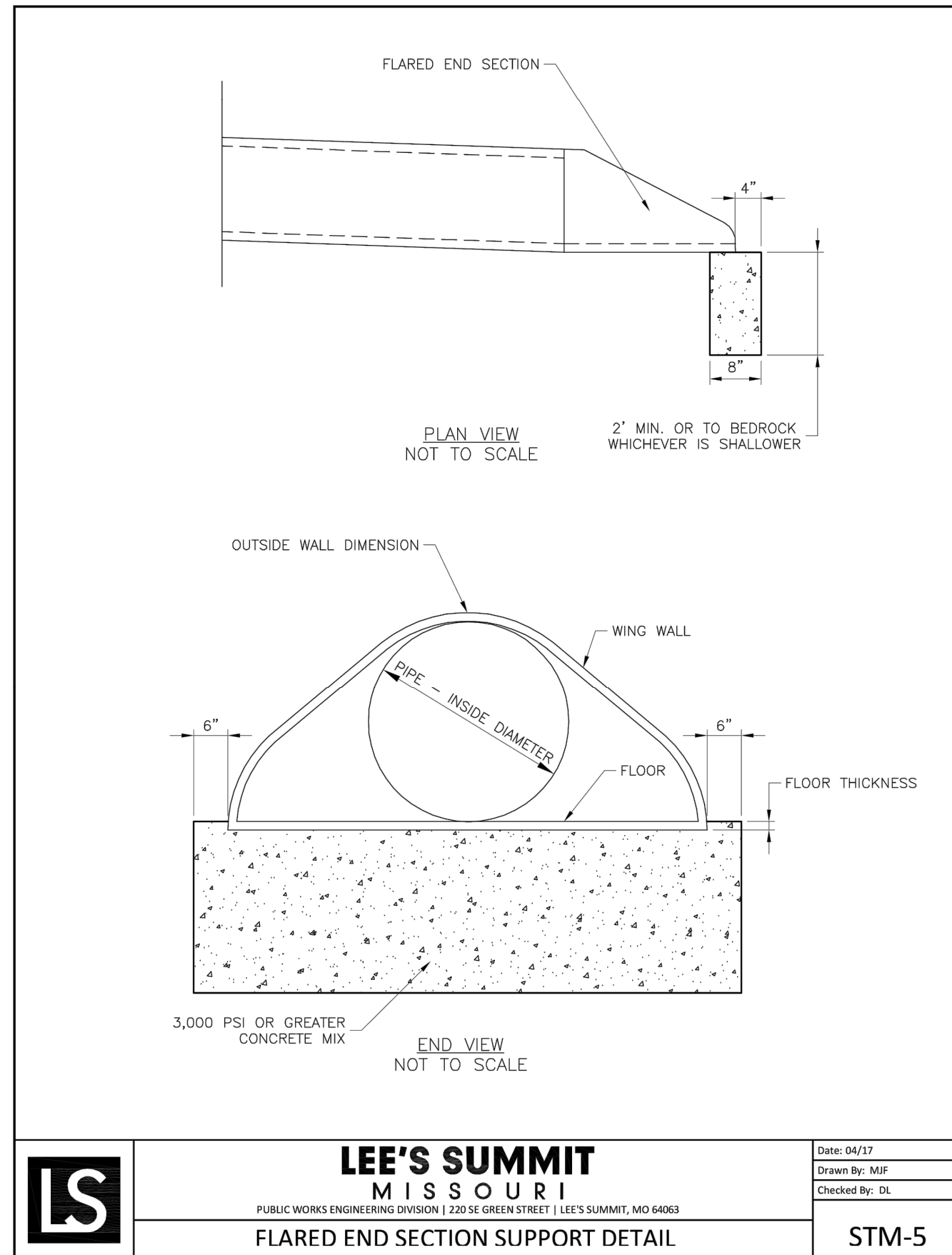
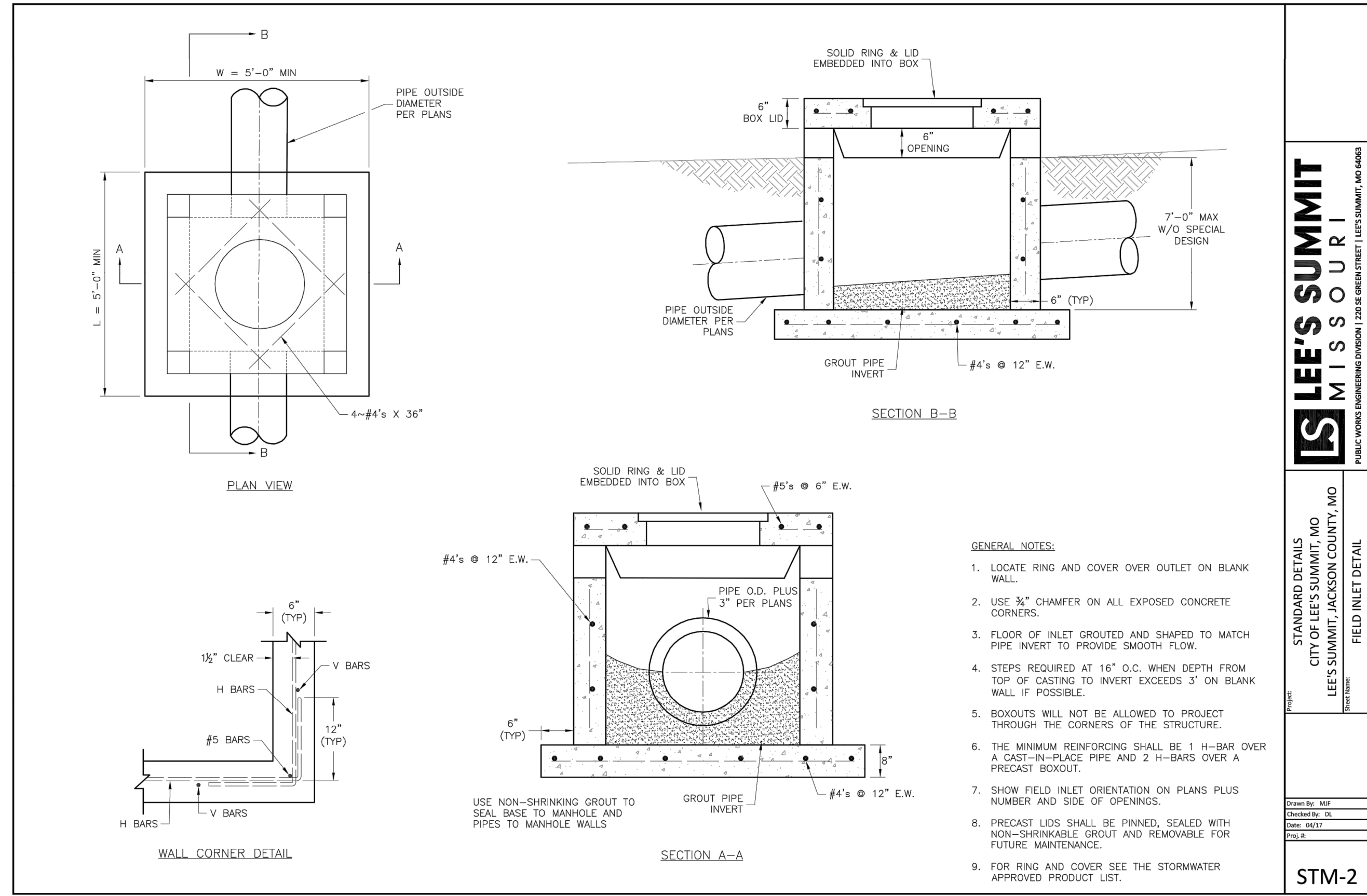
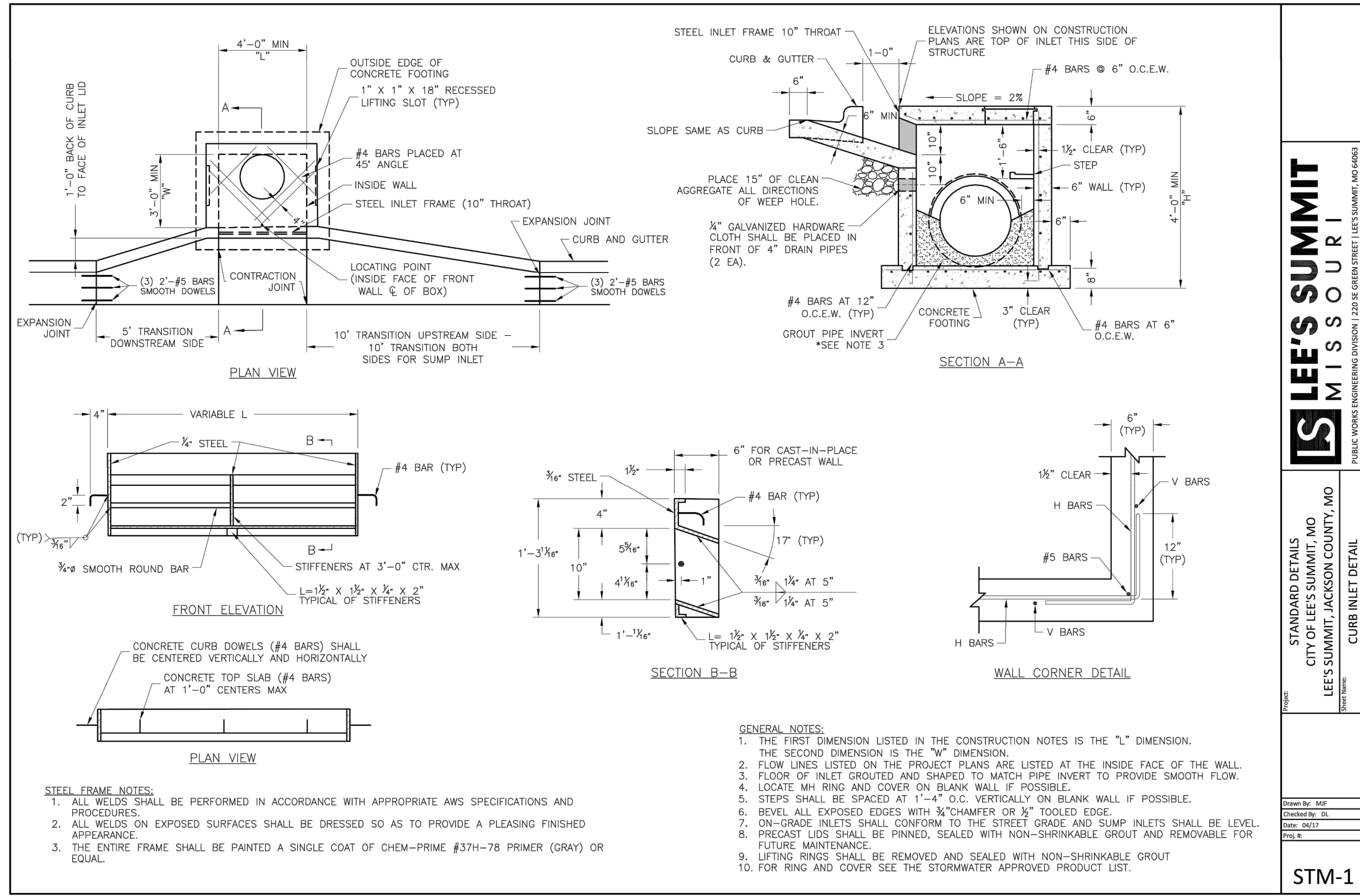
REV. NO.	DATE	REVISIONS DESCRIPTION
1	03-23-2021	REVISED PER CITY COMMENTS
2	04-16-2021	REVISED PER CITY COMMENTS
3	09-30-2021	CHANGES TO APPROVED PLANS

DETAIL SHEET  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT  
 LEE'S SUMMIT, MO  
 2021

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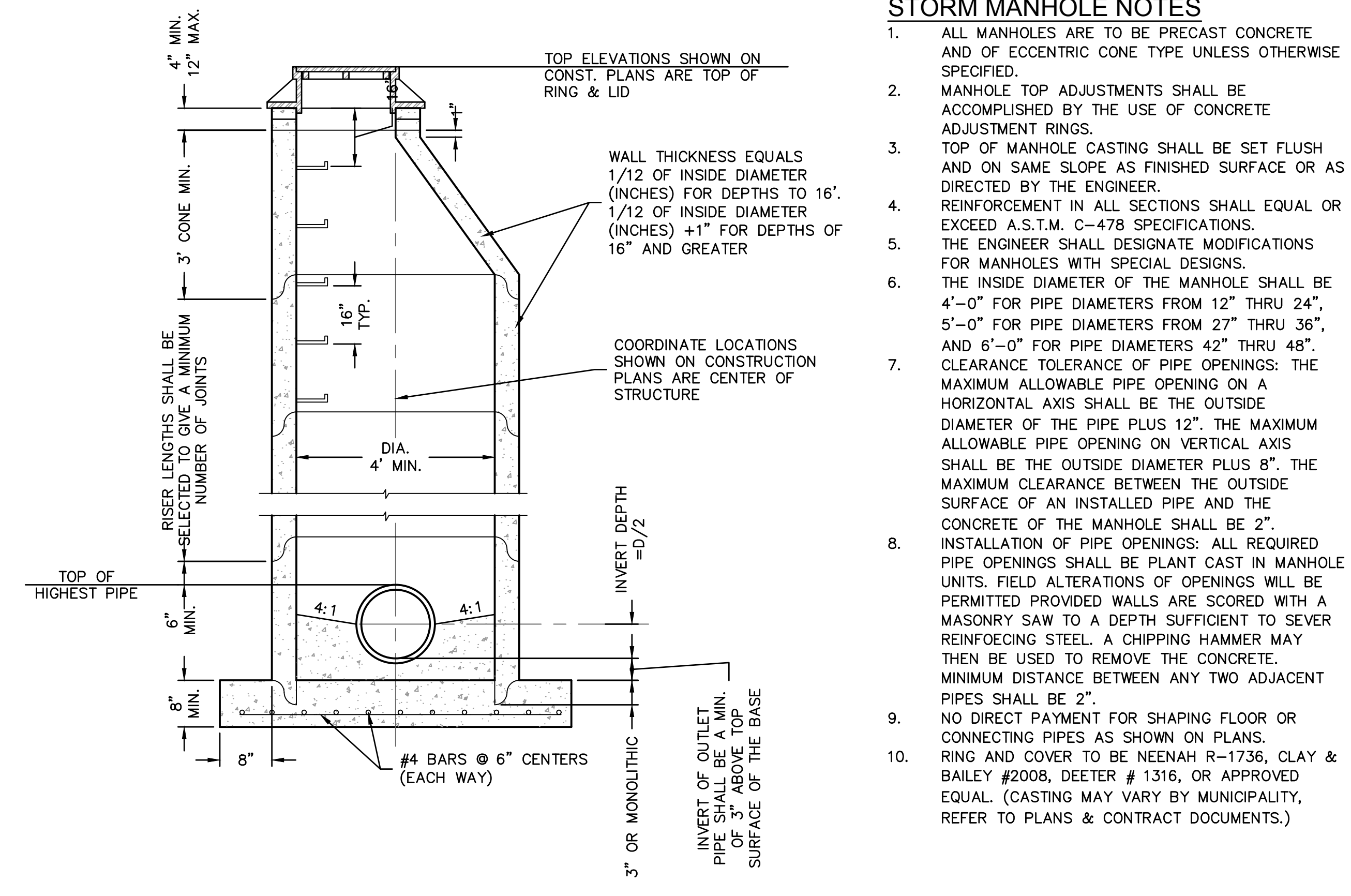
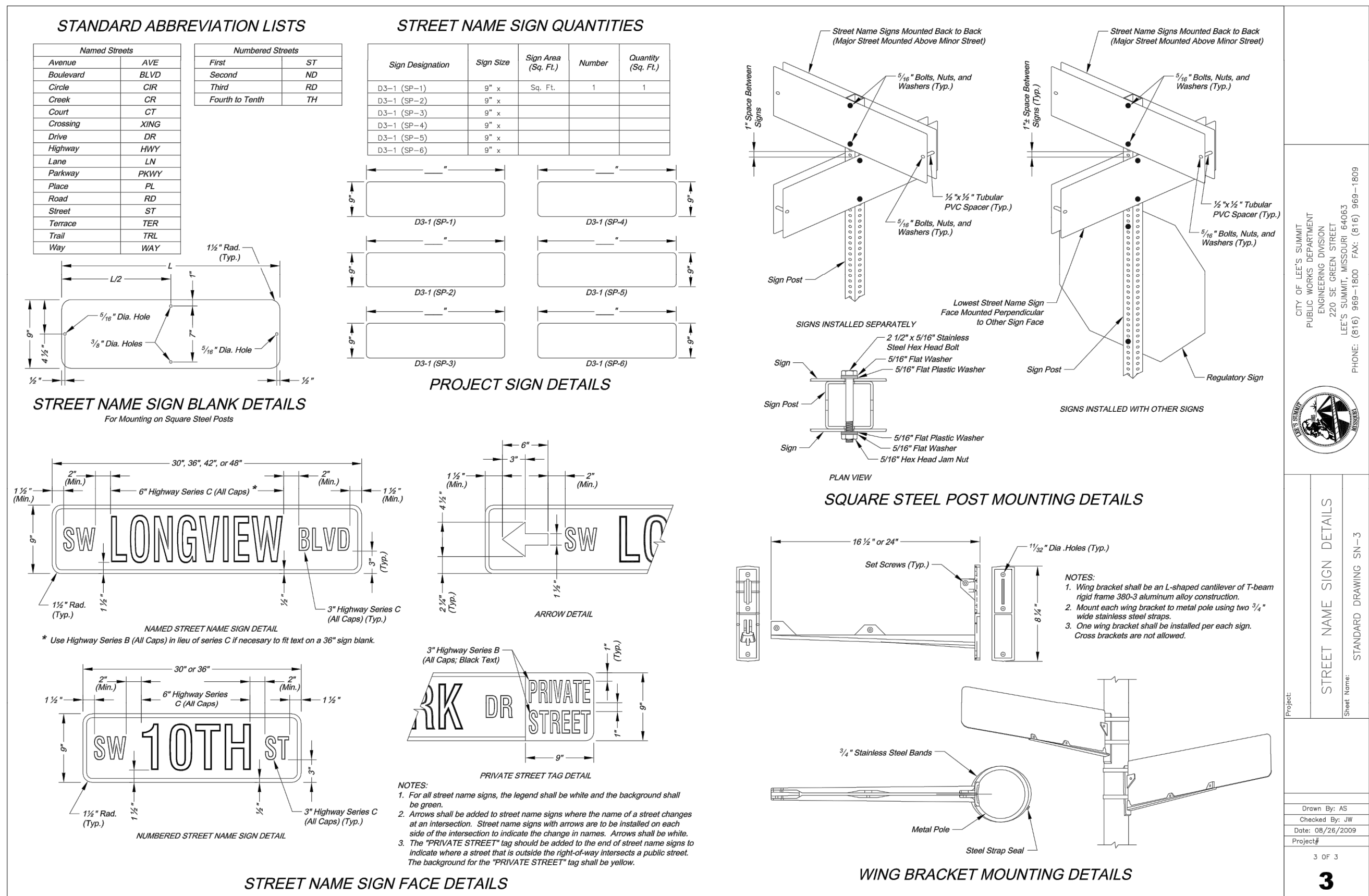
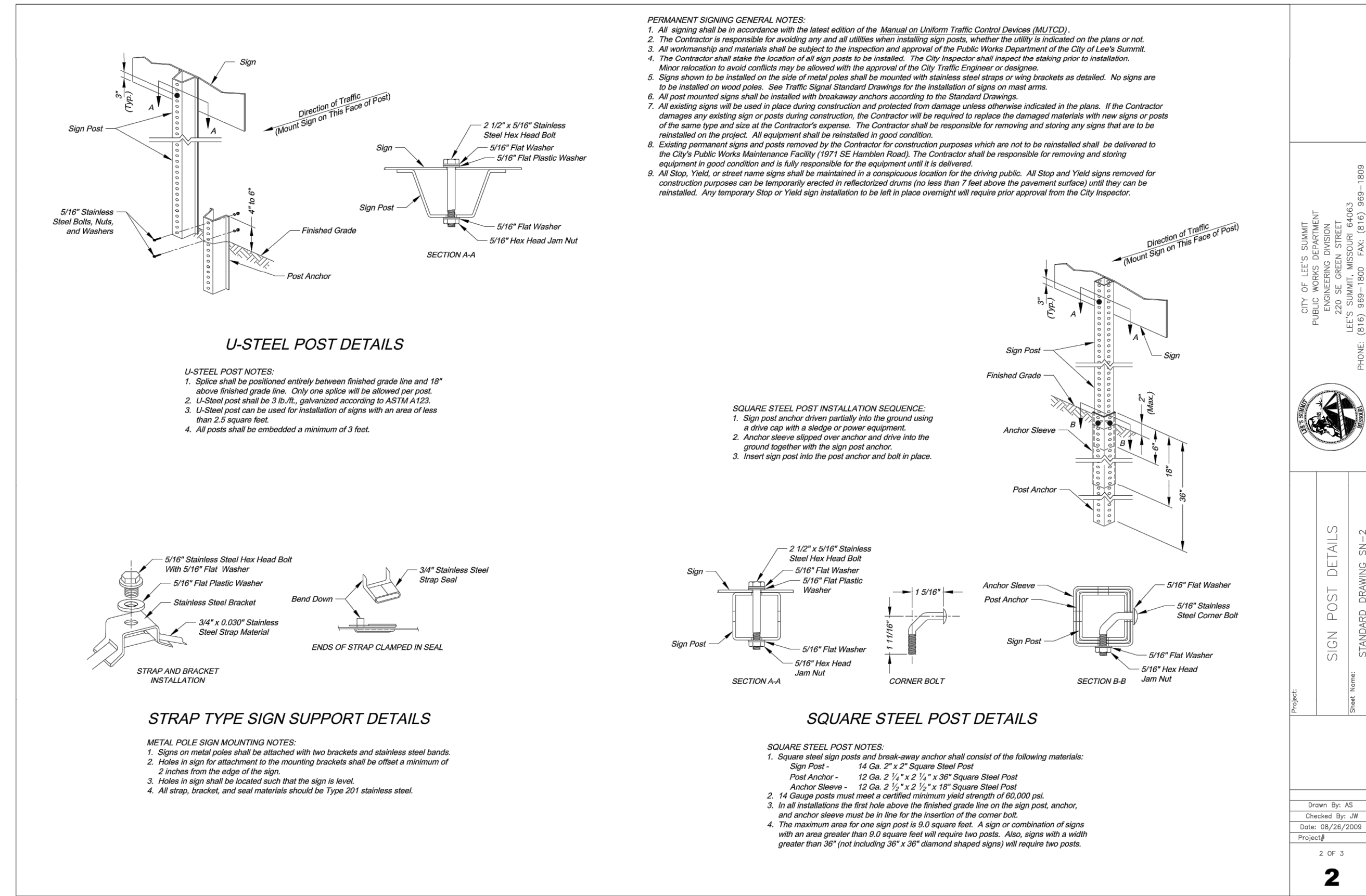
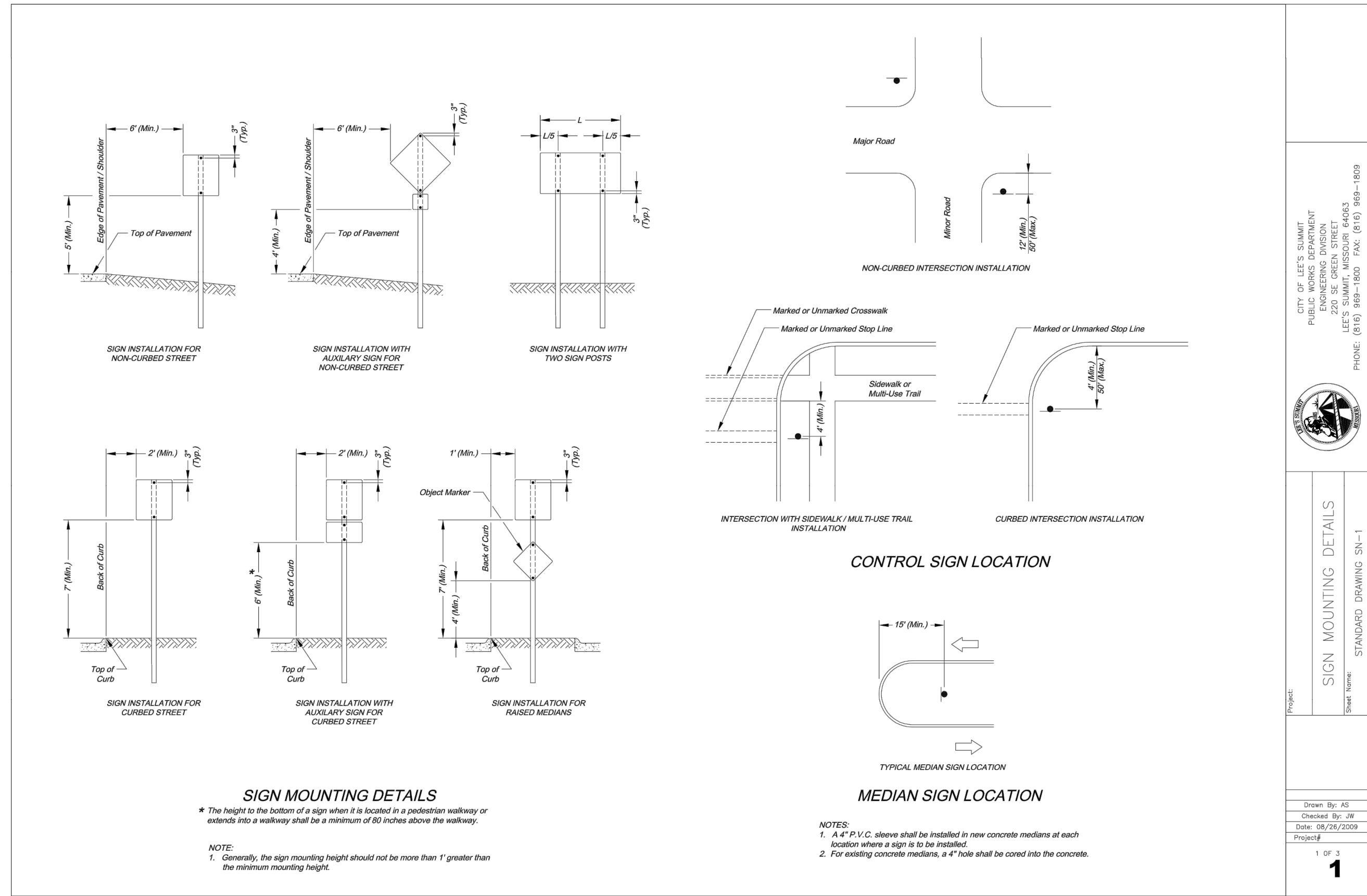
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STATE OF MISSOURI  
JULIE ELAINE SELLERS  
NUMBER PE-2017000367  
12/17/22  
PROFESSIONAL ENGINEER

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2	04-16-2021	REVISED PER CITY COMMENTS
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DETAIL SHEET	BY	2021
STREET & STORM SEWER PLANS		
HOOK FARMS SECOND PLAT		
LEE'S SUMMIT, MO		

drawn by: B.M.W./A.A.  
checked by: B.M.W.  
designed by: B.M.W./A.A.  
QA/QC by: J.E.S.  
project no.: B19-4061  
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 NUMBER PE-2017000367  
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BY: \_\_\_\_\_

DETAIL SHEET  
 STREET & STORM SEWER PLANS  
 HOOK FARMS  
 SECOND PLAT

2021

LEE'S SUMMIT, MO

drawn by: B.M.W./A.A.  
 checked by: B.M.W.  
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 QA/QC by: J.E.S.  
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SHEET C150