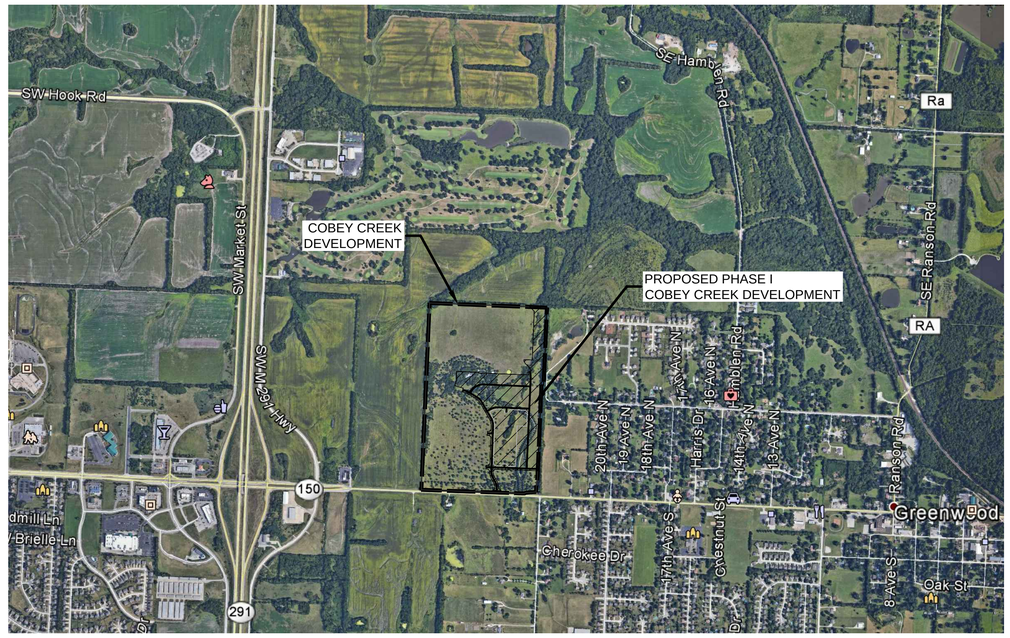
COBEY CREEK - 1ST PLAT

STREET AND STORM SEWER PLANS

NE & SE $\frac{1}{4}$, SECTION 29 & NW $\frac{1}{4}$ SECTION 28,
TOWNSHIP 47 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

INDEX OF SHEETS



VICINITY MAP

0 1000' 1500' 2000'
SCALE: 1"=1000'

LEGEND

Existing Section Line	Proposed Right-of-Way
Existing Right-of-Way Line	Proposed Property Line
Existing Lot Line	Proposed Lot Line
Existing Easement Line	Proposed Easement
Existing Curb & Gutter	Proposed Curb & Gutter
Existing Sidewalk	Proposed Sidewalk
Existing Storm Sewer	Proposed Storm Sewer
Existing Storm Structure	Proposed Storm Structure
Existing Waterline	Proposed Fire Hydrant
Existing Gas Main	Proposed Waterline
Existing Sanitary Sewer	Proposed Sanitary Sewer
Existing Sanitary Manhole	Proposed Sanitary Manhole
Existing Contour Major	Proposed Contour Major
Existing Contour Minor	Proposed Contour Minor
	Future Curb & Gutter

UTILITIES

City of Lee's Summit Department of Public Works 220 SE Green Lee's Summit, Mo. 816-969-1800	KCPL 130 SE Hamblen Road Lee's Summit, Mo. 816-347-4320 Missouri One Call 1-800-344-7483	Missouri Gas Energy 3025 SE Clover Road Lee's Summit, Mo. 816-537-4681
AT&T 215 N. Spring Independence, Mo. 816-325-5610	Time Warner 6550 Winchester Avenue Kansas City, Mo. 913-643-1901	

811 Know what's below. Call before you dig.

DEVELOPER
JCM DEVELOPMENT, LLC
1314 MARKET STREET
LEE'S SUMMIT, MO 64082
(816) 786-4008
CONTACT - CHRIS JEFFRIES

ENGINEER
Hg CONSULT, INC.
CONTACT - KEVIN STERRETT
1411 N.E. TODD GEORGE ROAD
LEES SUMMIT, MISSOURI 64086
(816) 703-7098

LEGAL DESCRIPTION:

All that part of the Southeast Quarter of Section 29, Township 47 North, Range 31 West, more particularly described as follows:

Commencing at the Southeast corner of said Southeast Quarter; thence North 02°30'29" East, along the East line of the Southeast Quarter of said Section 29, a distance of 58.62 feet; thence departing said East line, North 87°29'31" West, a distance of 40.00 feet to the North right-of-way line of Missouri State Highway No. 150, as now established, and the Point of Beginning; thence South 85°26'23" West, along the North right-of-way line of said Missouri State Highway No. 150, a distance of 142.47 feet; thence South 65°50'12" West, continuing along said North right-of-way line, a distance of 27.99 feet; thence continuing along said North right-of-way line, North 87°54'10" West, along a line 30 feet North of and parallel with the South line of said Southeast Quarter, a distance of 1436.75 feet; thence departing said North right-of-way line, North 02°32'36" East, a distance of 2613.35 feet to the North line of said Southeast Quarter; thence South 87°44'49" East, along the North line of said Southeast Quarter, a distance of 1641.53 feet to the Northeast corner of said Southeast Quarter; thence South 02°30'29" West, along the East line of said Southeast Quarter, a distance of 1081.05 feet; thence departing said East line, North 87°29'31" West, a distance of 30.00 feet; thence South 02°30'29" West, along a line 30 feet West of and parallel with the East line of said Southeast Quarter, a distance of 1302.74 feet; thence South 08°13'07" West, a distance of 100.51 feet; thence South 02°30'29" West, along a line 40 feet West of and parallel with the East line of said Southeast Quarter, a distance of 96.45 feet to the Point of Beginning. Containing 4,237,595.37 square feet or 97.28 acres, more or less.

GENERAL NOTES

1. *The underground utilities shown herein have been plotted from available information and do not necessarily reflect the actual existence, or nonexistence, size, type, number, or locations of these or other utilities. The contractor shall be responsible for verifying the actual locations of all underground utilities, shown or not shown, and said utilities shall be located in the field prior to any grading, excavation, or construction of improvements. These provisions shall in now way absolve any party from complying with the "UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT", Chapter 319, RSMO.*
2. *Gas, Water, and other Utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers, including building laterals.*
3. *The Contractor shall secure all required permits and notify the Development Engineering Department of the City of Lee's Summit (816-969-1200) at least 48 hours prior to any construction.*
4. *Prior to submittal of construction bids, the Contractor shall be required to visit the site to verify existing conditions and proposed improvements.*
5. *All construction materials and methods used shall comply with the latest editions of the City of Lee's Summit "DESIGN AND CONSTRUCTION MANUAL" as adopted by City Ordinance NO. 5813. See said Manual for standard details.*
6. *The Contractor shall be responsible for notification and coordination with all Utility Companies.*
7. *The Contractor shall notify the Engineer immediately of any discrepancies in the plans.*
8. *"Controlled Fill" indicates fill to be placed in accordance with APWA Section 2100 for grading and site preparation, with APWA Section 2200 for street construction (paving), with APWA Section 2500 for sanitary sewer construction and with APWA Section 2600 for storm sewer construction unless otherwise noted.*

NOTE:

1) *The subject property is located within the Big Creek Watershed.*
2) *There was no oil or gas wells located on the subject property as of May 14, 2018 as shown by the Missouri Geological Survey GEOSTRAT (Geosciences Technical Resource Asessment Tool).*

PROJECT BENCHMARK:

#1 MODNR MONUMENT JA-45
N: 986351.65
E: 2824617.51
TOP ELEV. 1012.79

#2 MONUMENT AT THE INTERSECTION OF M150 & DOC HENRY ROAD
N: 977823.53
E: 2828220.61
TOP ELEV. 1006.04

Prepared: November 21, 2018

DATE	REVISION	NO.	BY	CK/APP
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STATE OF MISSOURI — RICHARD KEVIN STERRETT — NUMBER E-26440 — REGISTERED PROFESSIONAL ENGINEER

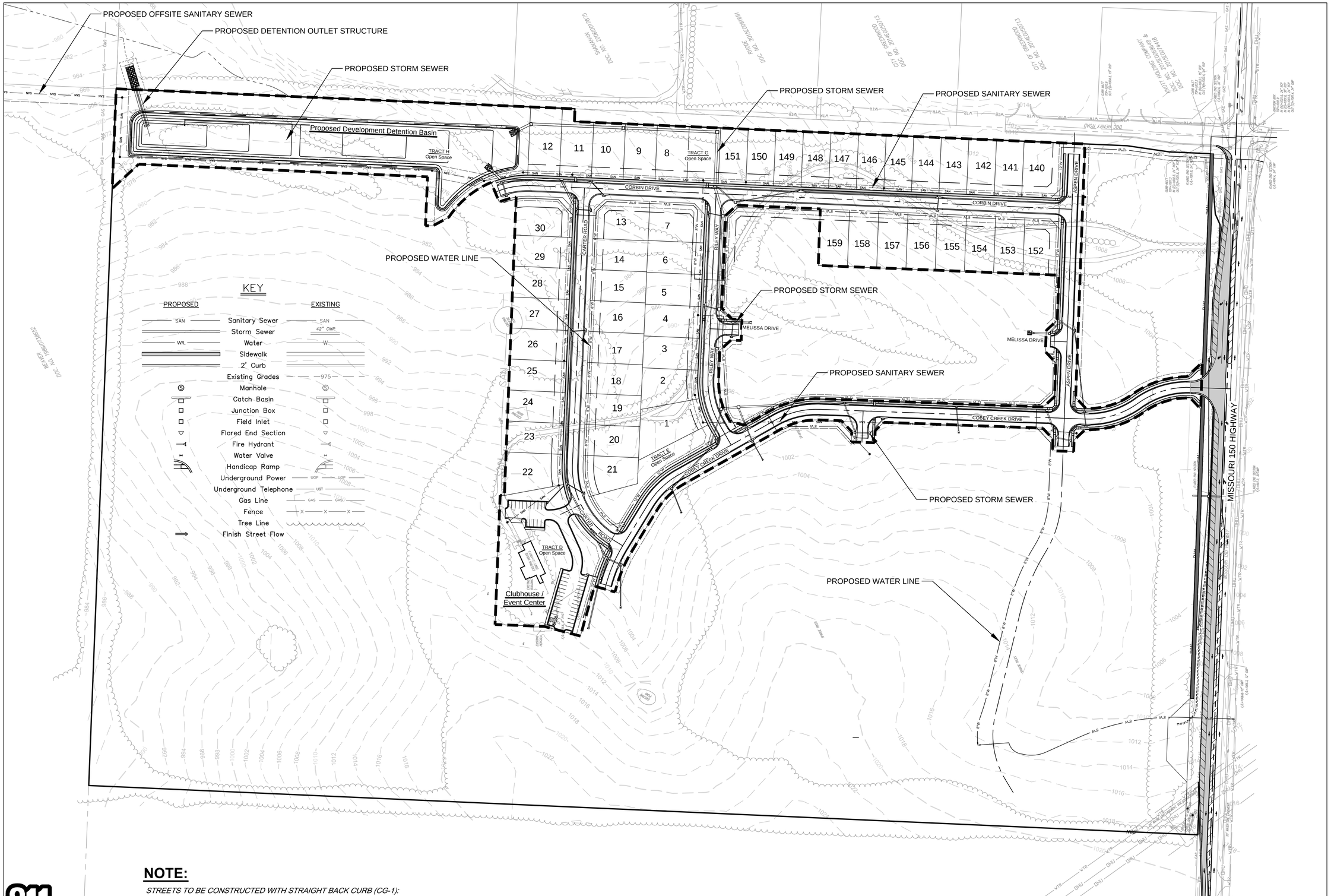
R. KEVIN STERRETT | MO E-26440
November 21, 2018

Hg Consult Inc engineers planners
110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010000573 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
COVER SHEET

COBEY CREEK FIRST PLAT
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO. 16-059 Base Phase I
DRAWING NO. 16-059 Phase I Street Plans
DATE November 21 2018
JOB NO. 16-059



NOTE:

STREETS TO BE CONSTRUCTED WITH STRAIGHT BACK CURB (CG-1):

COBEY CREEK DRIVE, ASPEN DRIVE, TYLER ROAD.

STREETS TO BE CONSTRUCTED WITH ROLL BACK CURB (CG-2):

CORBIN DRIVE, RILEY WAY, CARTER ROAD.

811 Know what's below. Call before you dig.

0 100' 150' 200'
SCALE: 1"=100'

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REGISTERED PROFESSIONAL ENGINEER

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Consult Inc engineers planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010005 73 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
GENERAL UTILITY LAYOUT

COBEY CREEK FIRST PLAT
PHASE I

CITY OF LEES SUMMIT, JACKSON COUNTY, MISSOURI

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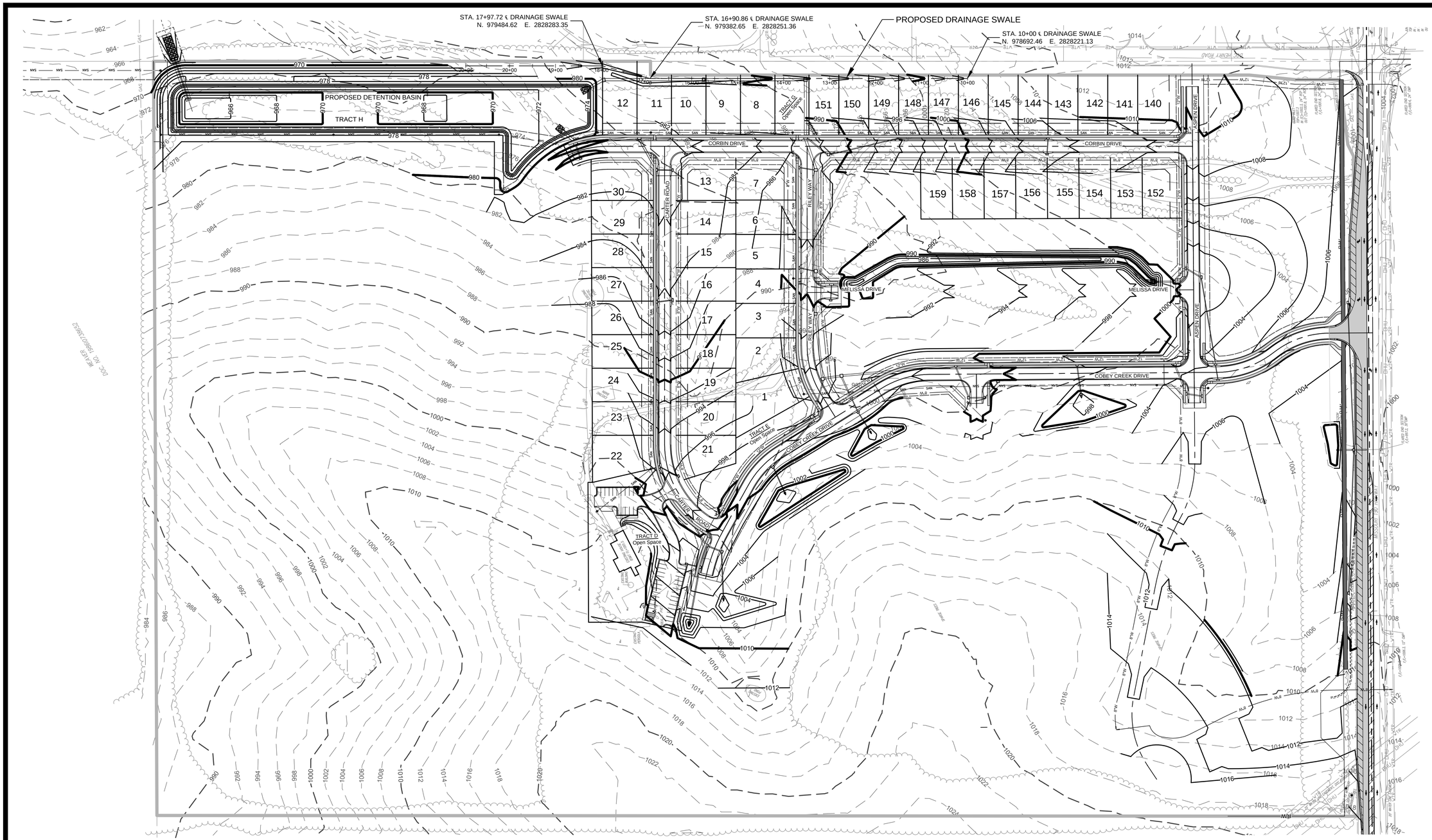
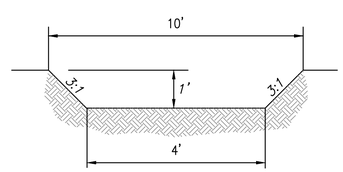


GENERAL NOTES:

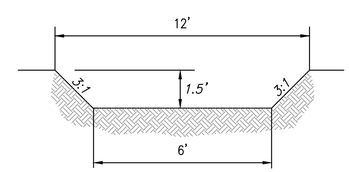
1. This sheet is for informational purposes only. See individual sheets for exact utility locations.
2. See Sanitary Sewer sheets and Utility Map for Minimum Basement Floor elevations (MBF) and Minimum Low Opening elevations (MLO).
3. Grading plan represents general site grading prior to the development of lots.
4. Existing grades aquired from topographic survey, May 2017. Existing street grades verified in field.
5. Per contractor, all excess dirt or deficiencies of dirt to be handled on site.
6. Tract H shall be "Common Area" to be owned and maintained by the Homeowner's Association.
7. The swales located on or near the lots designated as "★" to carry excess storm water runoff shall be maintained by the Owners of said lots. Minimum Low Openings (MLO) of said lots on the swale side of said lots shall be a minimum of one (1) foot above the adjacent top of finish swale elevation unless a higher MLO elevation is required by other restrictions.
8. The Minimum Low Opening (MLO) for the front of all lots shall be a minimum of one (1) foot above the top of corresponding curb elevation.



SWALE DETAIL STA. 10+00 TO 14+50

(NO SCALE)

CAPACITY AT 1.0% = 26.8 CFS
SURFACE SWALE: REAR OF
LOTS 8 THROUGH 12, AND 147
THROUGH 151.



SWALE DETAIL STA. 14+50 TO 18+50

(NO SCALE)

CAPACITY AT 1.0% = 78.9 CFS
SURFACE SWALE: REAR OF
LOTS 8 THROUGH 12, AND 147
THROUGH 151.

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11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
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STREET AND STORM SEWER PLANS
PHASE I GRADING PLAN

COBEY CREEK FIRST PLAT
PHASE I

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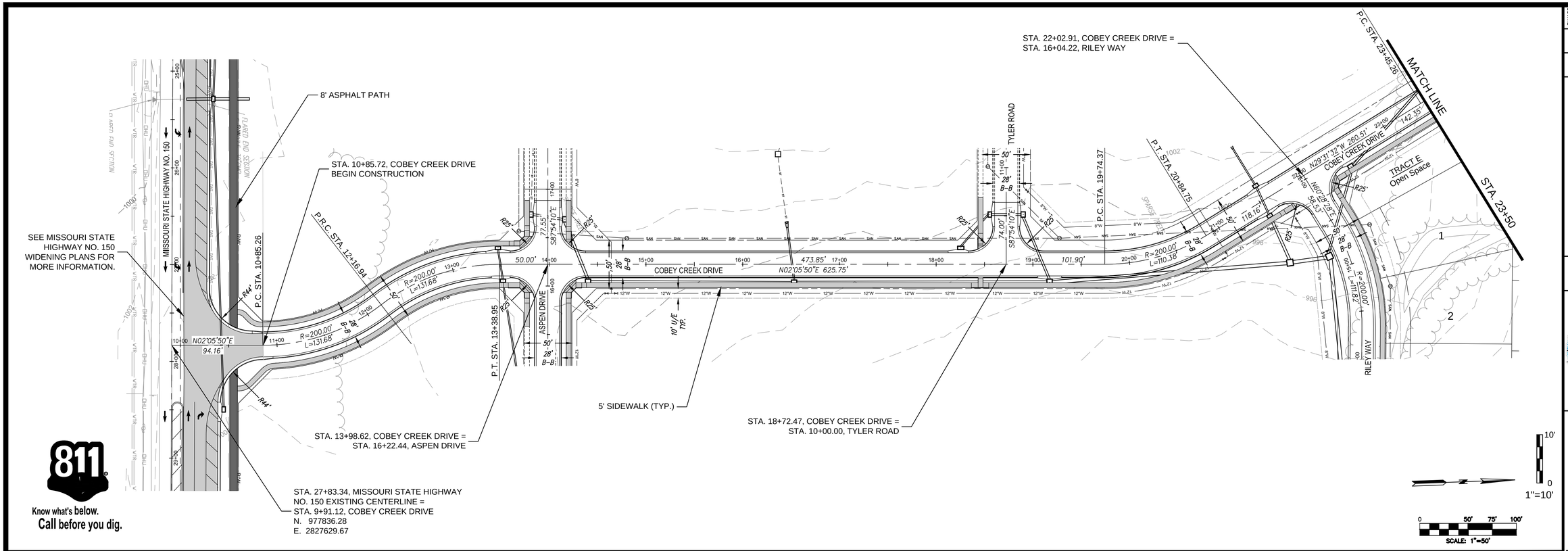

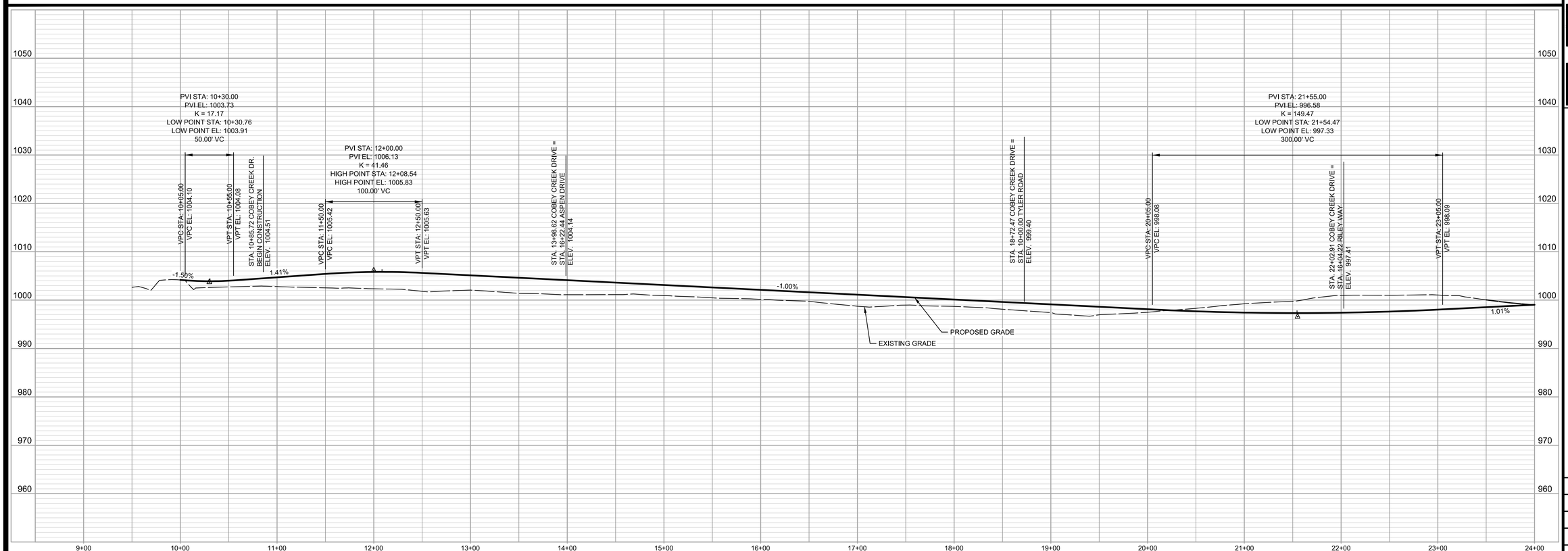

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110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
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STREET AND STORM SEWER PLANS
STREET CENTERLINE PROFILES
COBEY CREEK DRIVE

COBEY CREEK FIRST PLAT
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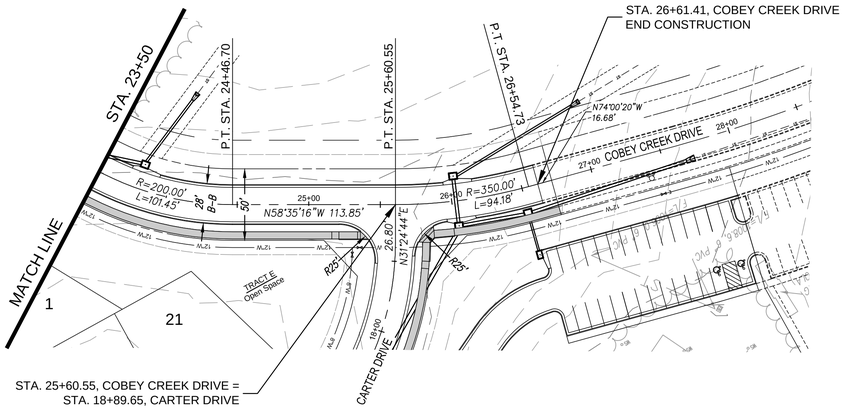

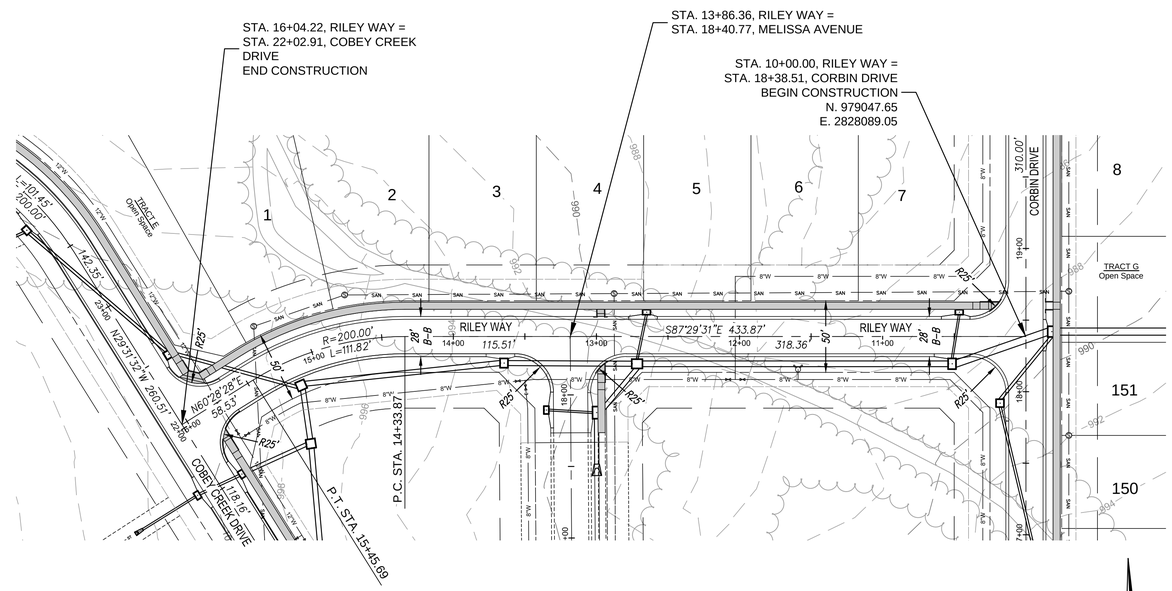

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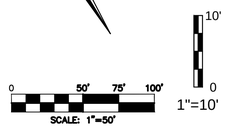
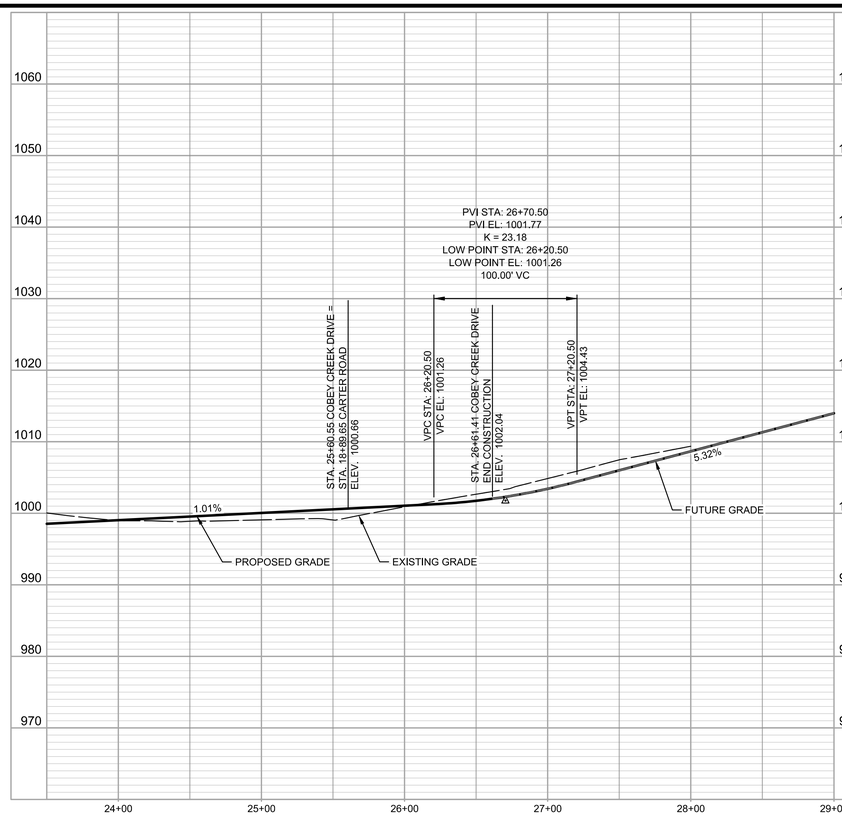
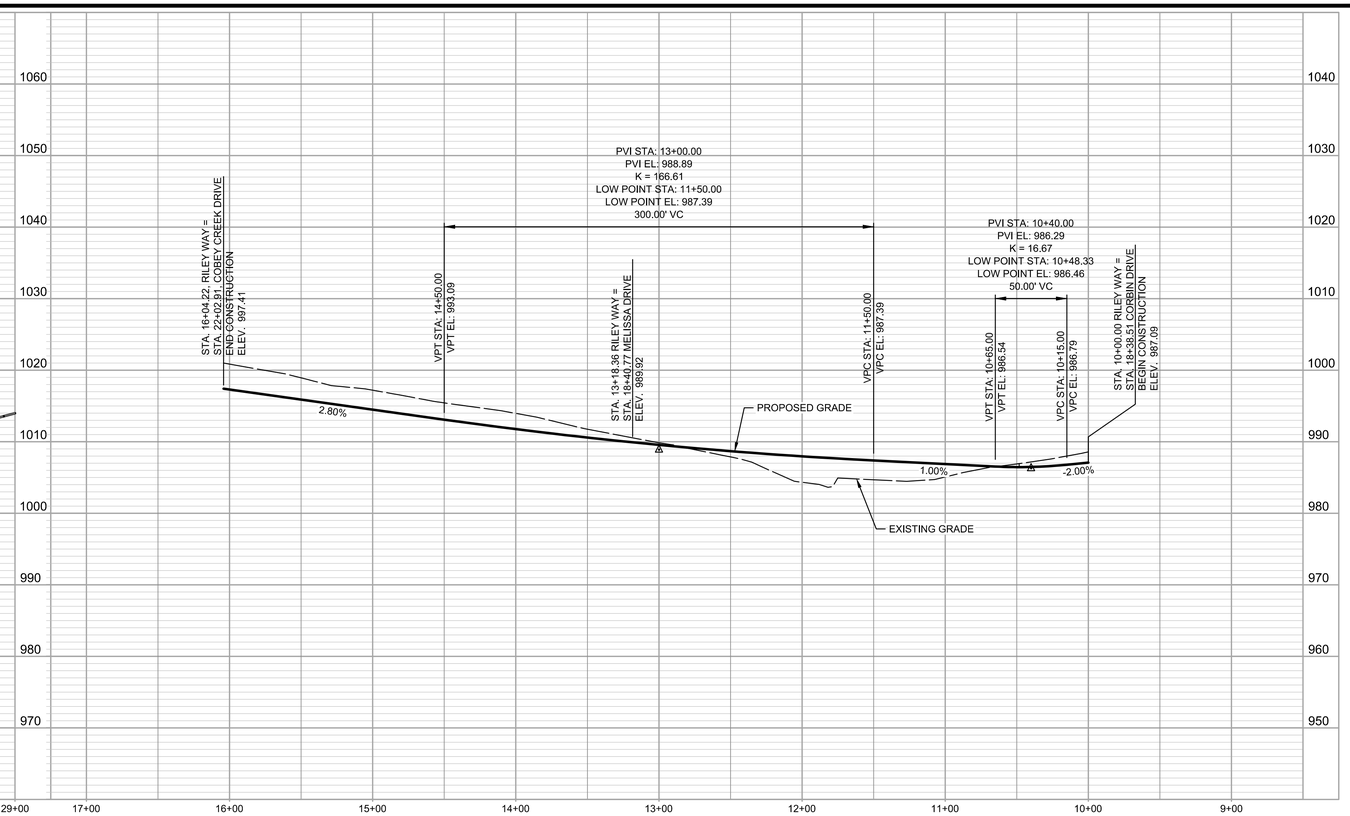




COBEY CREEK DRIVE CENTERLINE PROFILE



RILEY WAY CENTERLINE PROFILE

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R. KEVIN STERRETT | MO E-26440
November 21, 2018

Consult Inc engineers planners
110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010005 73 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
STREET CENTERLINE PROFILES
COBEY CREEK DRIVE & RILEY WAY
COBEY CREEK FIRST PLAT
PHASE I
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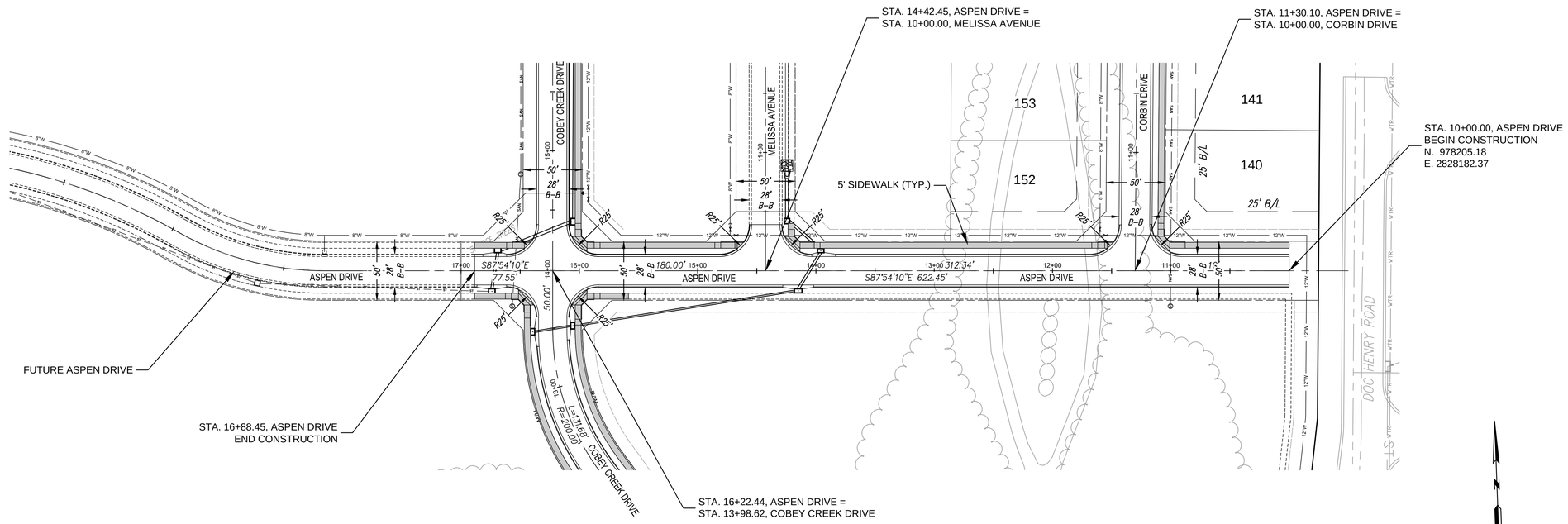

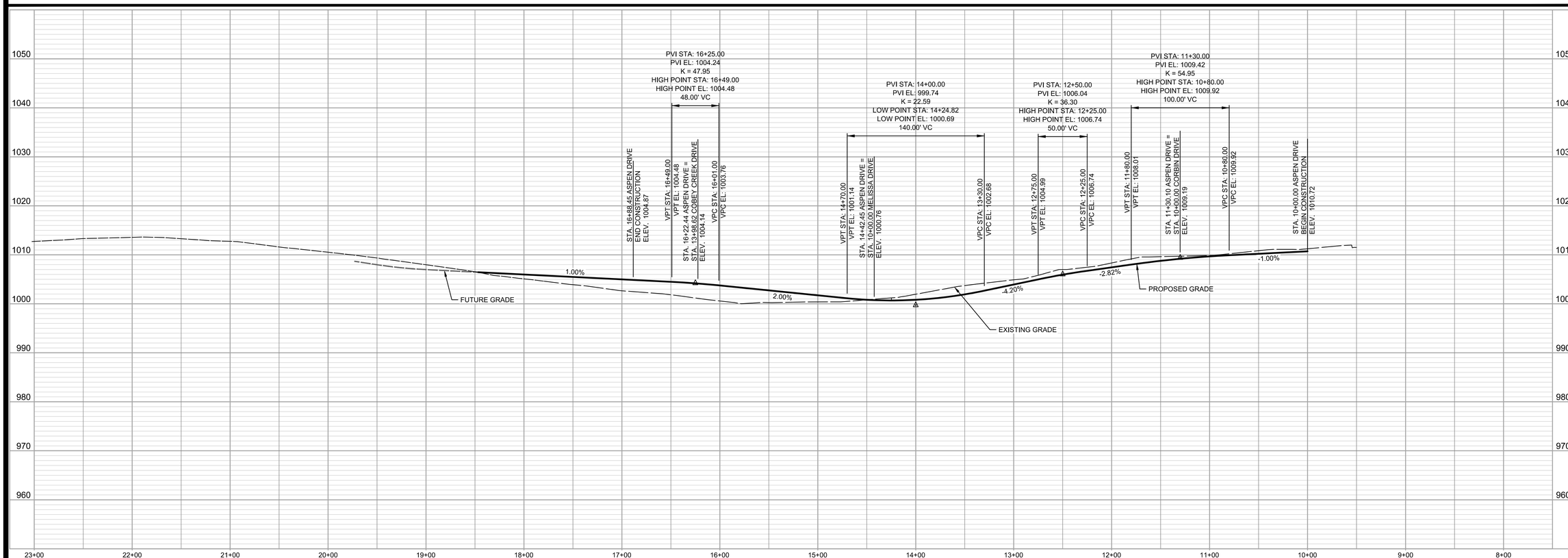

ASPEN DRIVE CENTERLINE PROFILE

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Consult Inc engineers planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
STREET CENTERLINE PROFILES
ASPEN DRIVE

COBEY CREEK FIRST PLAT
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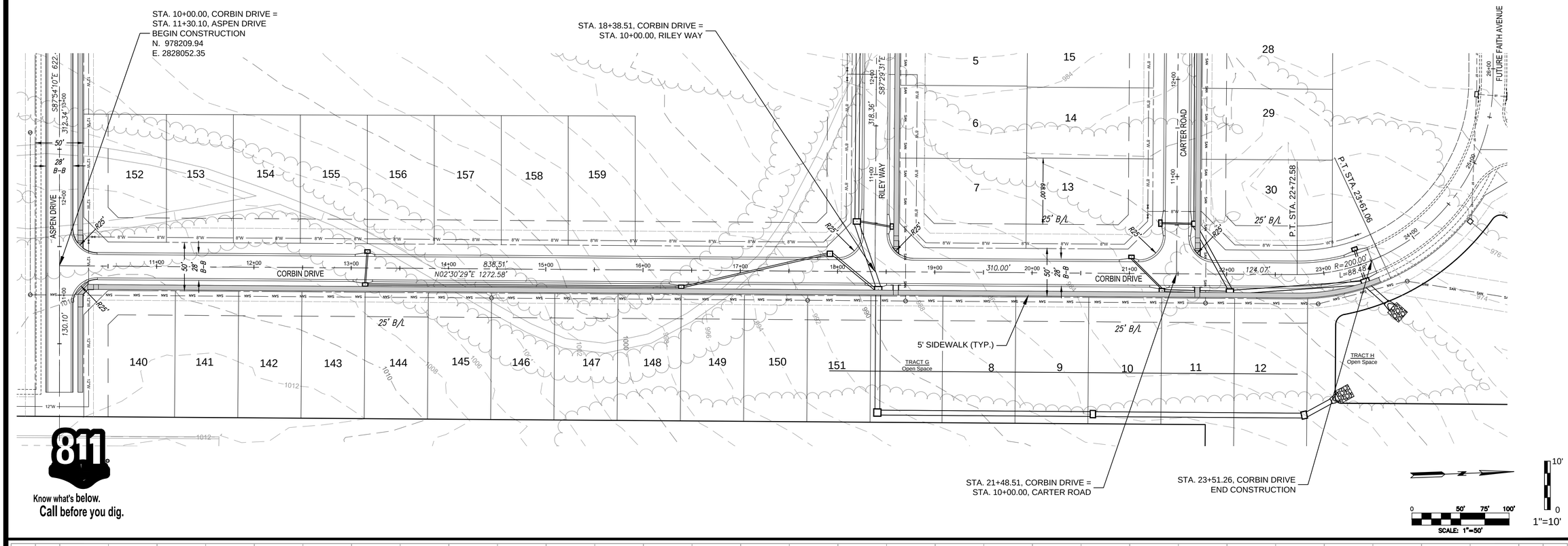

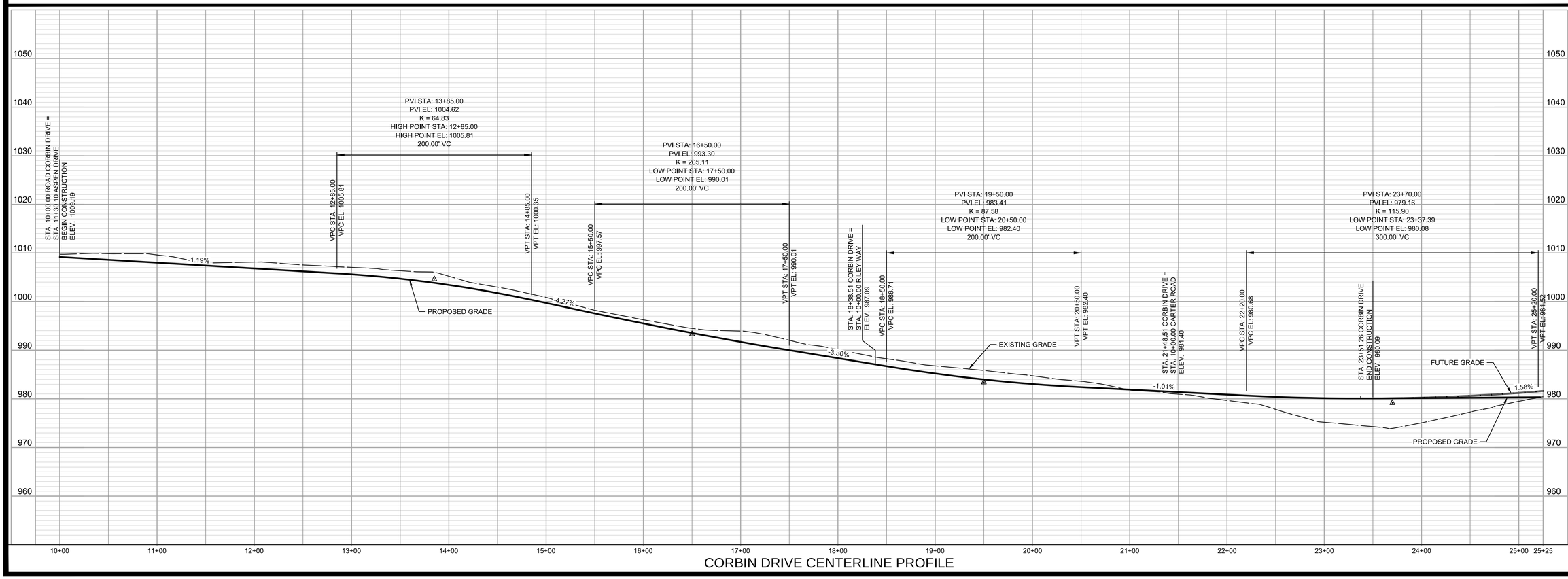

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STREET AND STORM SEWER PLANS
STREET CENTERLINE PROFILES
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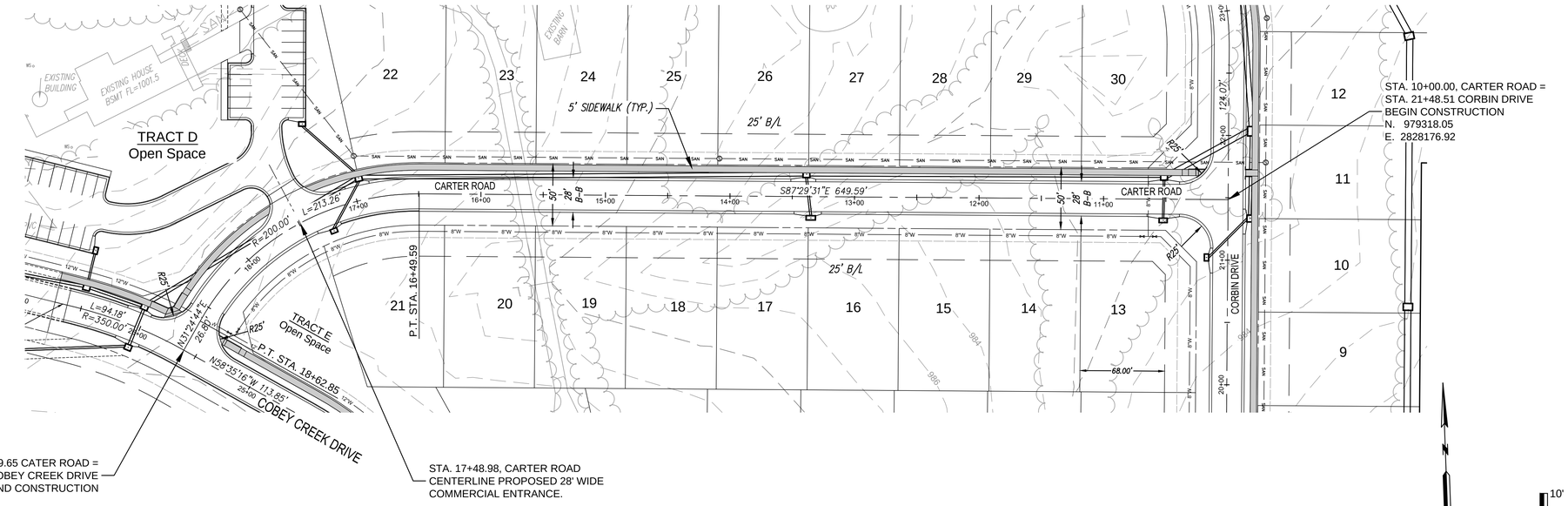

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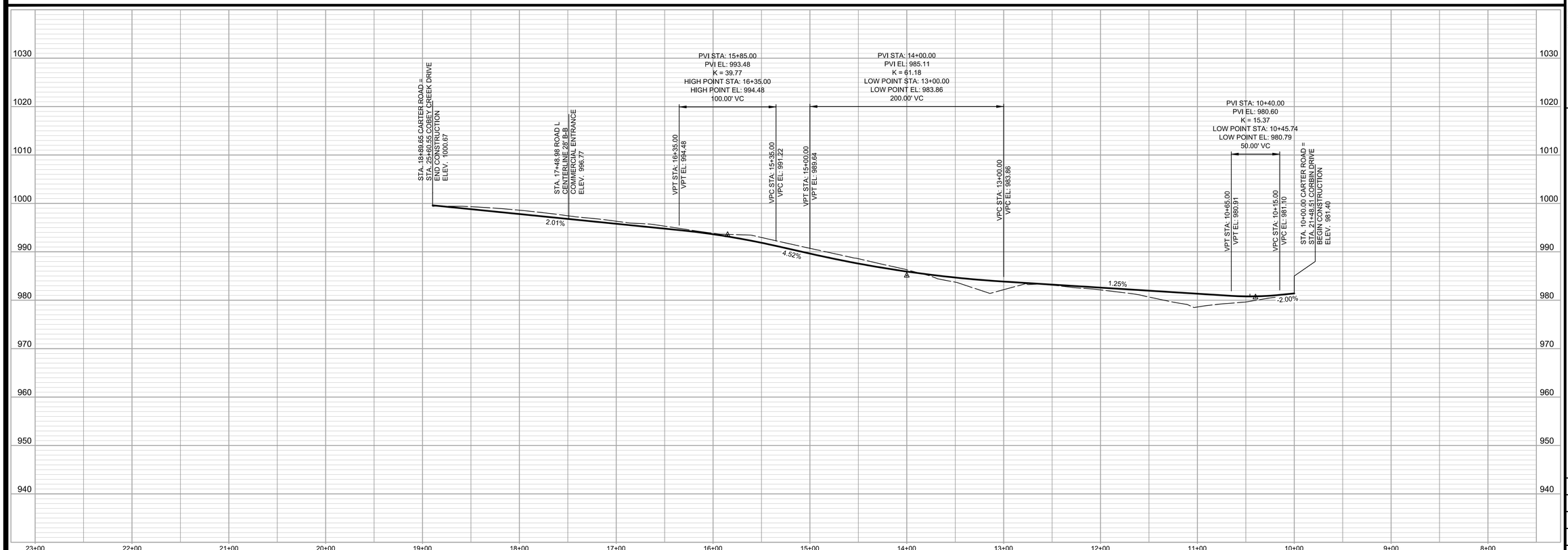

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STREET AND STORM SEWER PLANS
STREET CENTERLINE PROFILES
CARTER ROAD

COBEY CREEK FIRST PLAT
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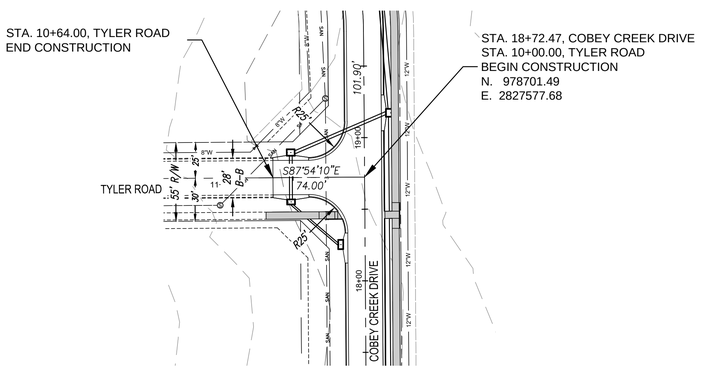

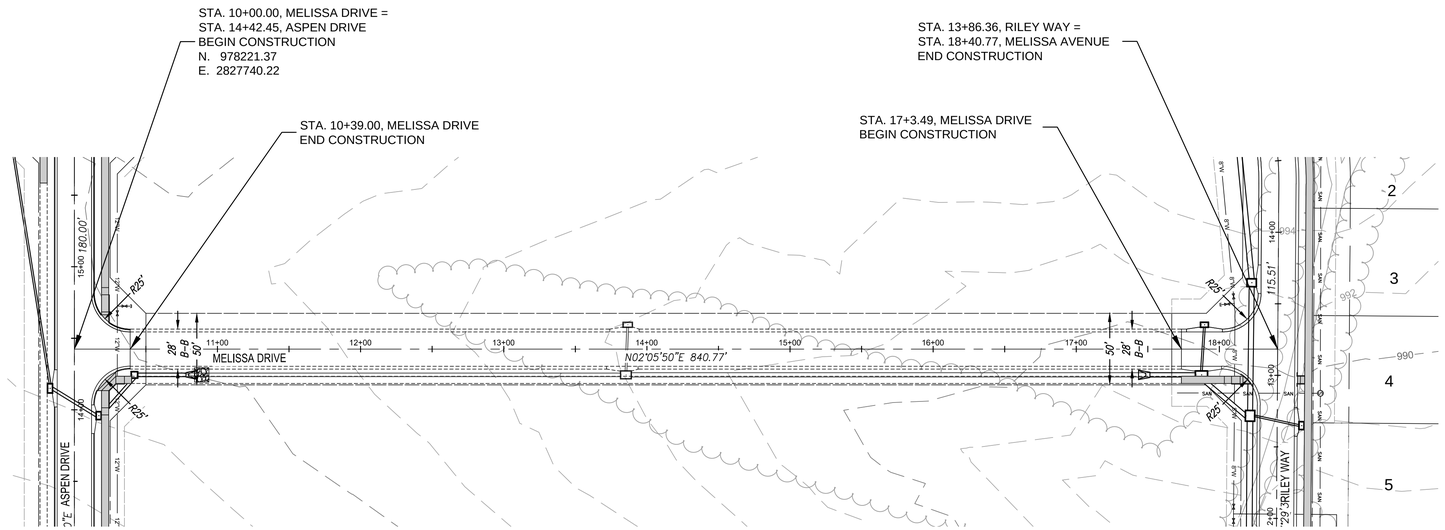

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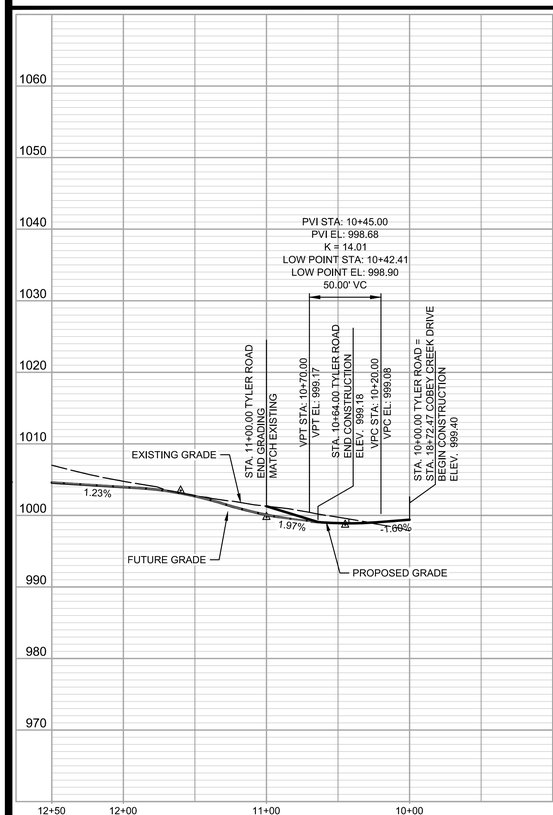
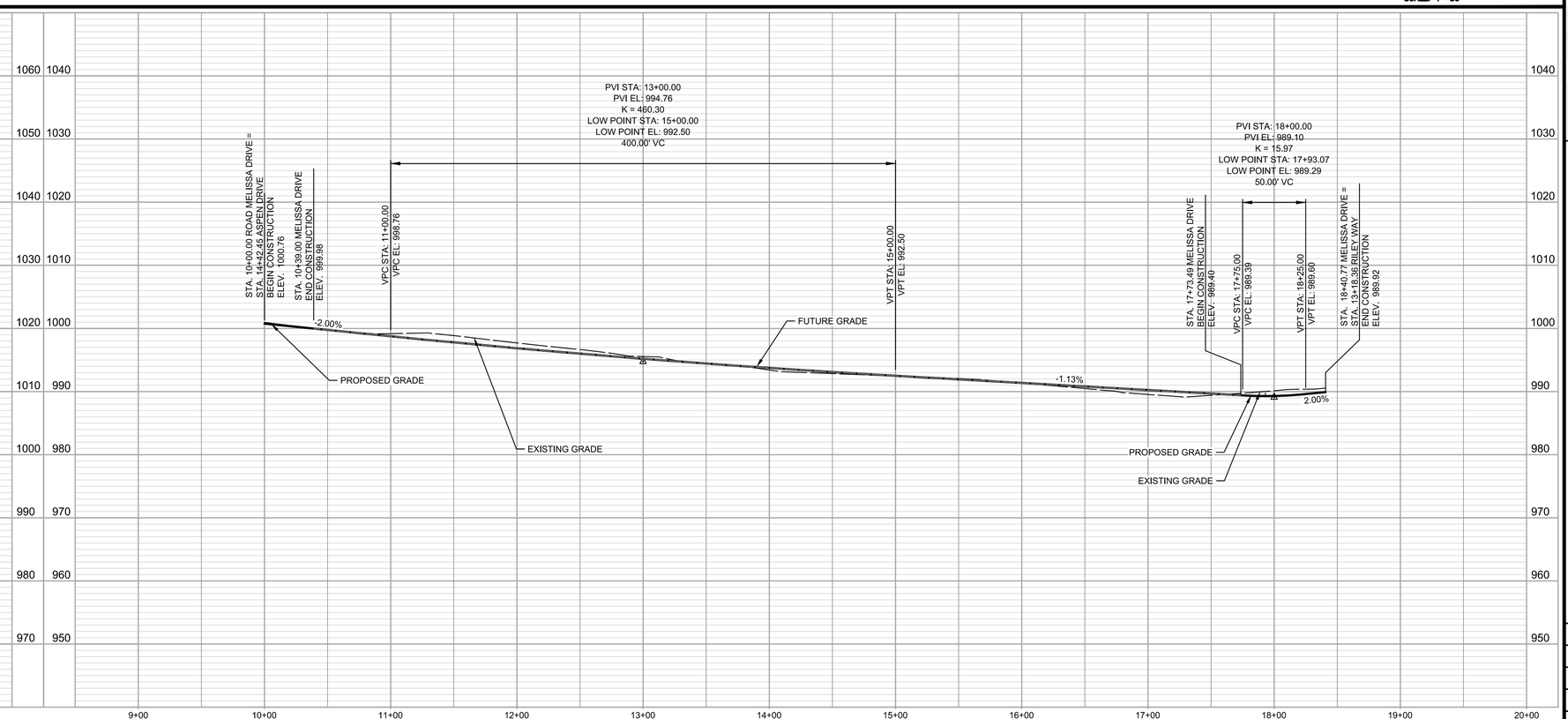
SCALE: 1"=50'

1"=10'





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MELISSA DRIVE
COBEY CREEK FIRST PLAT
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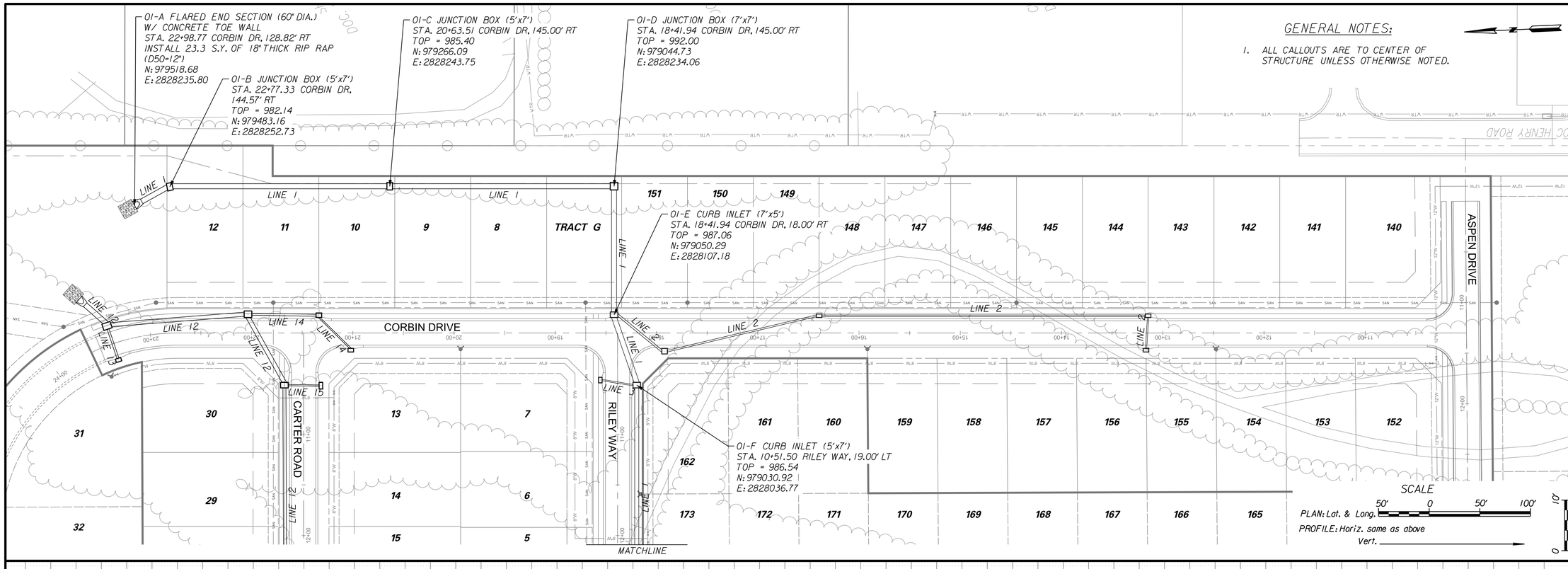
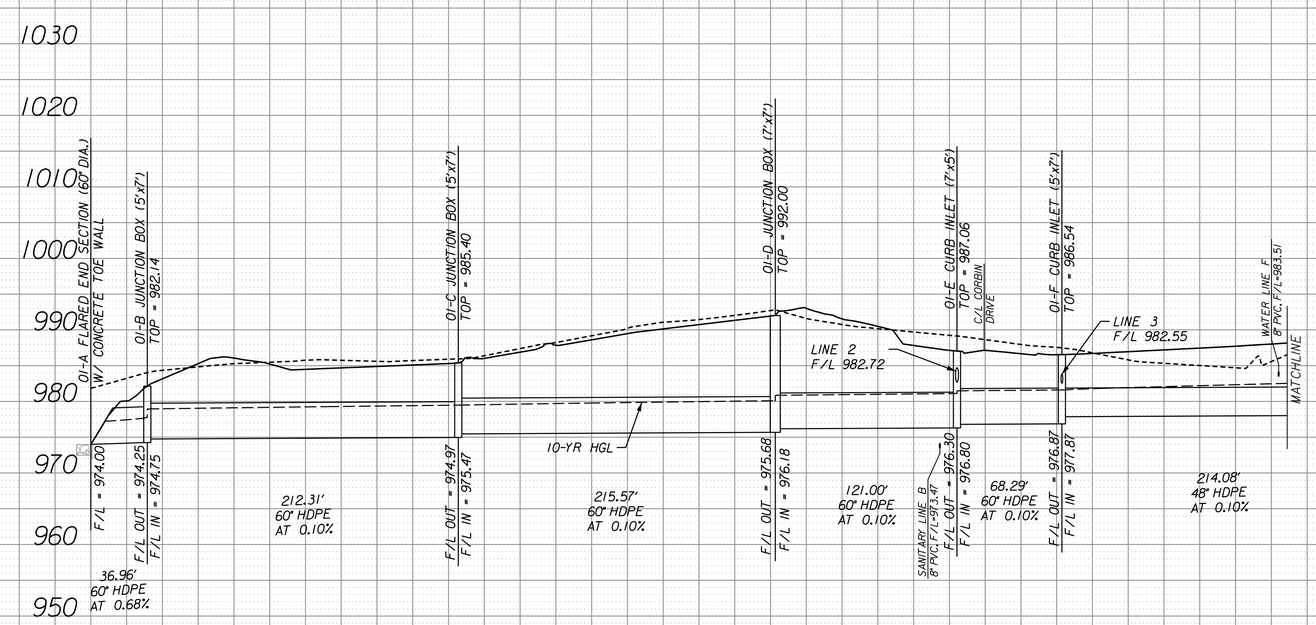




STORM SEWER LINE 1

NO.	BY	CK/APP	DATE	REVISION
1	RAM	RKS	11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT

STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

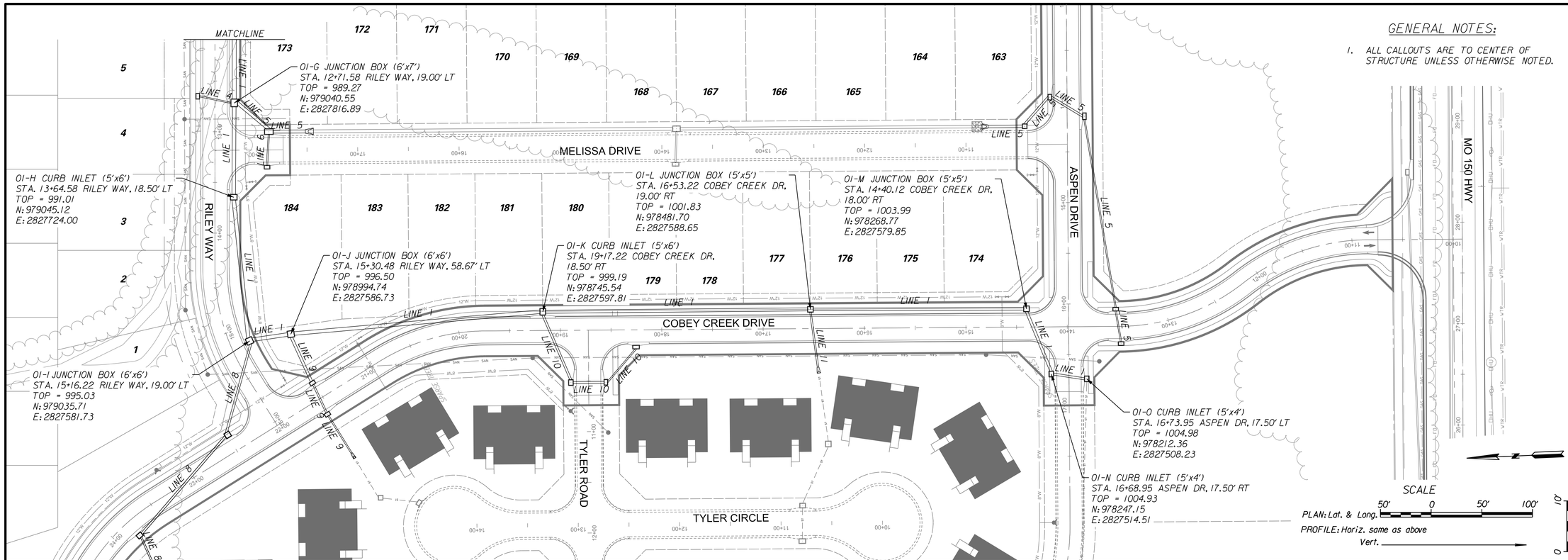
Consult Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

STORM SEWER LINE 1

COBEY CREEK
CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

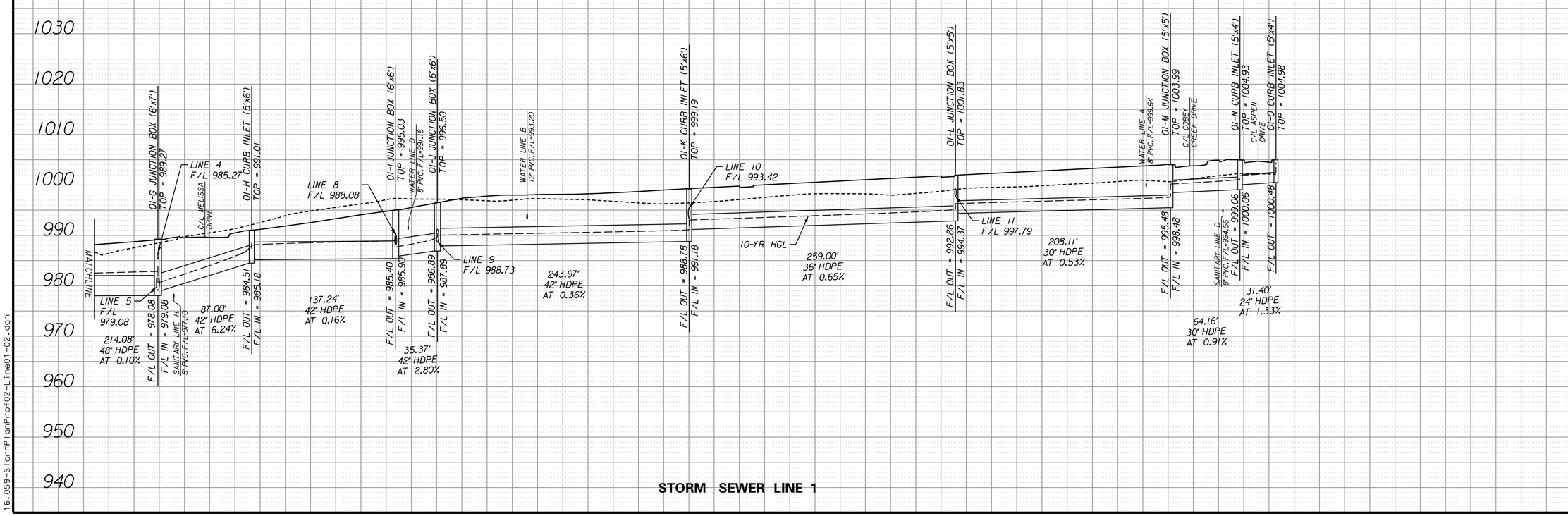
X-REF NO. XXX
DRAWING NO. XXX
DATE November 21, 2018
JOB NO. 16.059.01

11/20/2018
16.059-StormPlanProf01-Line01-01.dgn



GENERAL NOTES:

1. ALL CALLOUTS ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.



STORM SEWER LINE 1

NO.	BY	CK/APP	DATE	REVISION
1	RAM	RKS	11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT

STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consult Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

STORM SEWER LINE 1

COBEY CREEK

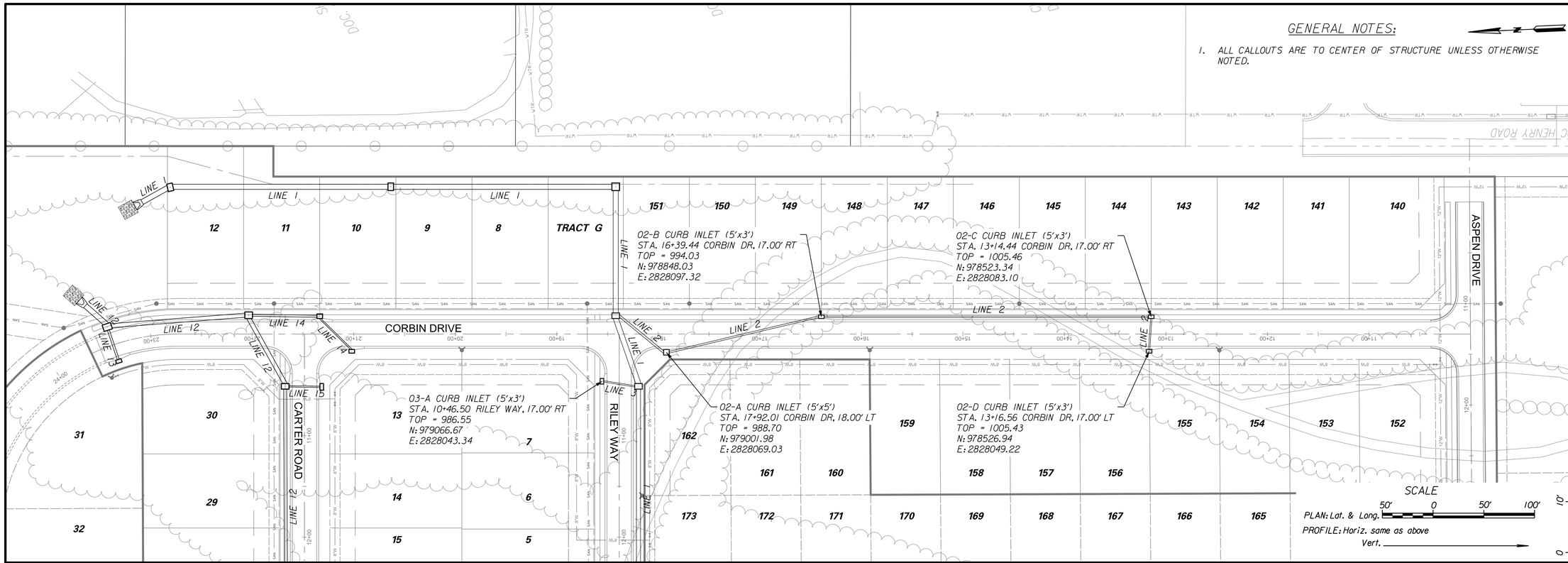
CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

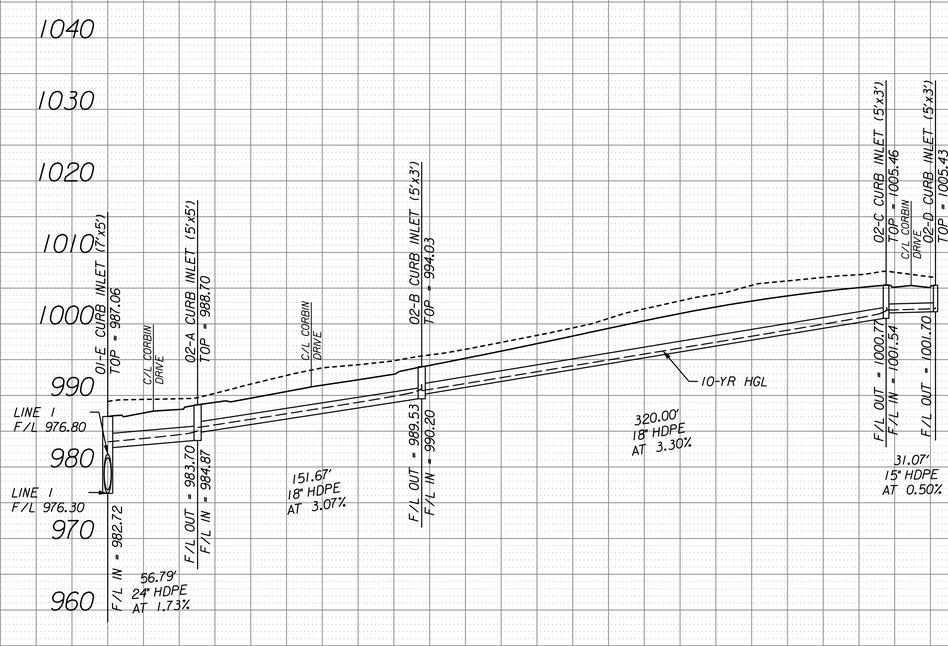
X-REF NO. XXX
DRAWING NO. XXX
DATE November 21, 2018
JOB NO. 16.059.01
SHEET 11 OF 33

11/20/2018
16.059-StormPlanProf02-Line01-02.dgn

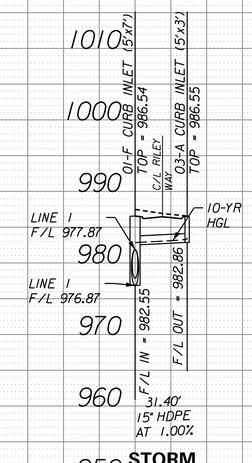
GENERAL NOTES:

1. ALL CALLOUTS ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.





STORM SEWER LINE 2



STORM SEWER LINE 3

NO.	BY	CK/APP
1	RAM	RKS

DATE	REVISION
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT

STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consult Inc
engineers
planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

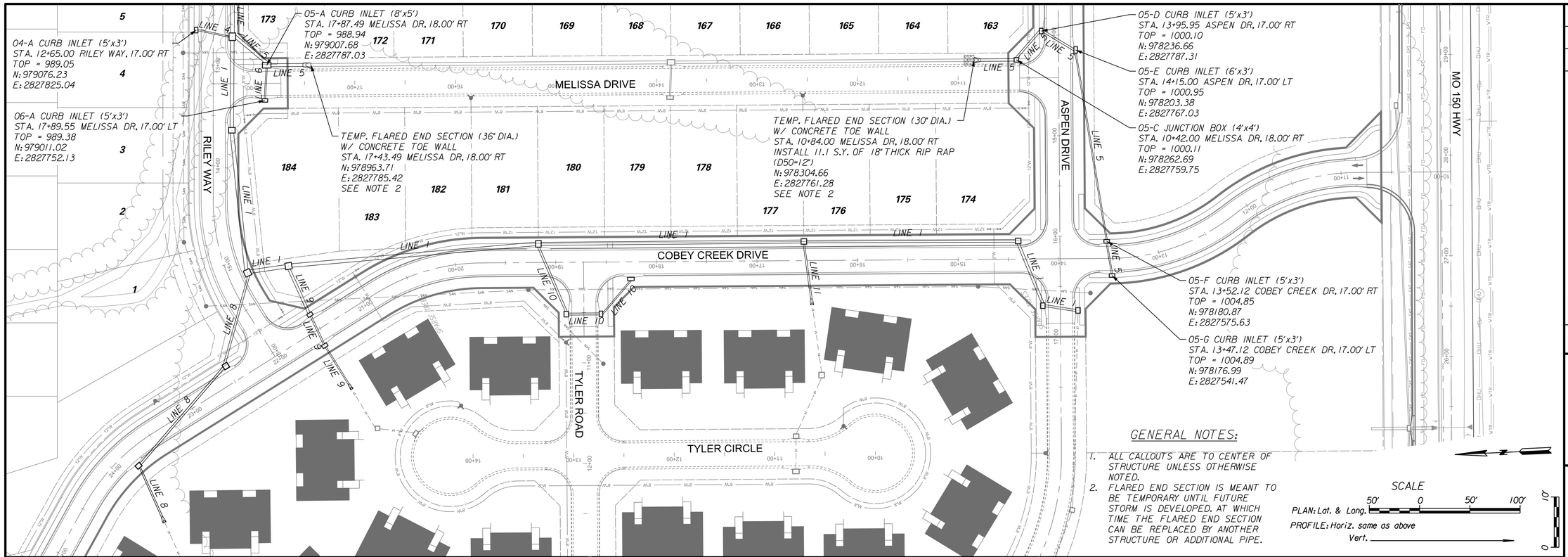
STORM SEWER LINES 2 AND 3

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO. XXX
DRAWING NO. XXX
DATE November 21, 2018
JOB NO. 16.059.01

11/20/2018
16.059-StormPlanProf03-Line02-01.dgn



GENERAL NOTES:

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2. FLARED END SECTION IS MEANT TO BE TEMPORARY UNTIL FUTURE STORM IS DEVELOPED. AT WHICH TIME THE FLARED END SECTION CAN BE REPLACED BY ANOTHER STRUCTURE OR ADDITIONAL PIPE.

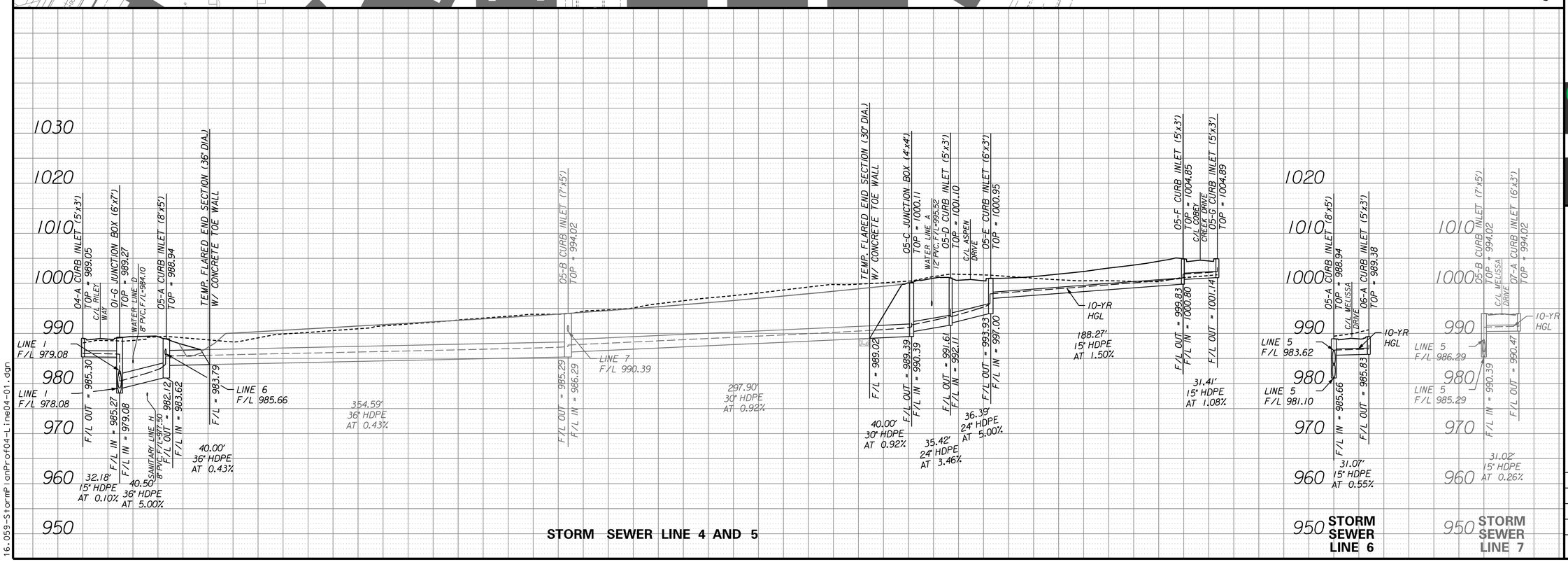
SCALE

50' 0 50' 100'

PLAN: Lat. & Long.

PROFILE: Horiz. same as above

Vert.



NO.	BY	CK/APP
1	RAM	RKS

DATE	REVISION
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT

STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consult Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

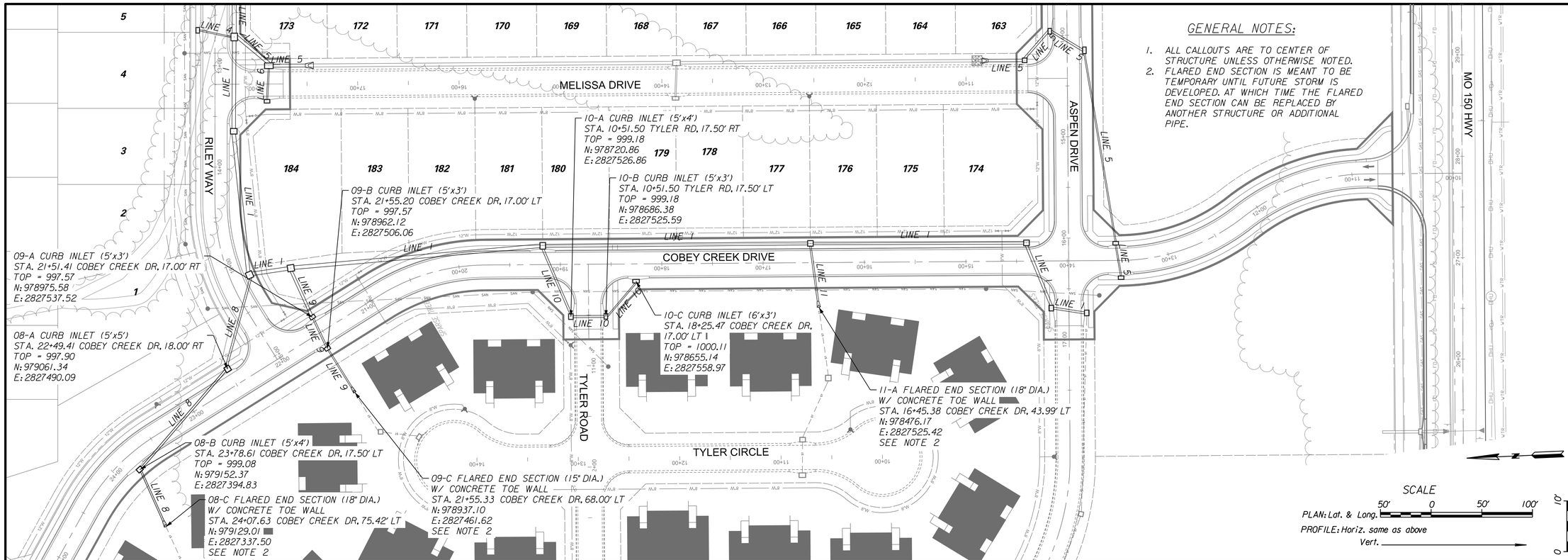
STORM SEWER LINES 4, 5 AND 6

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO. XXX
DRAWING NO. XXX
DATE November 21, 2018
JOB NO. 16.059.01

11/20/2018
16.059-StormPlanProf04-Line04-01.dgn



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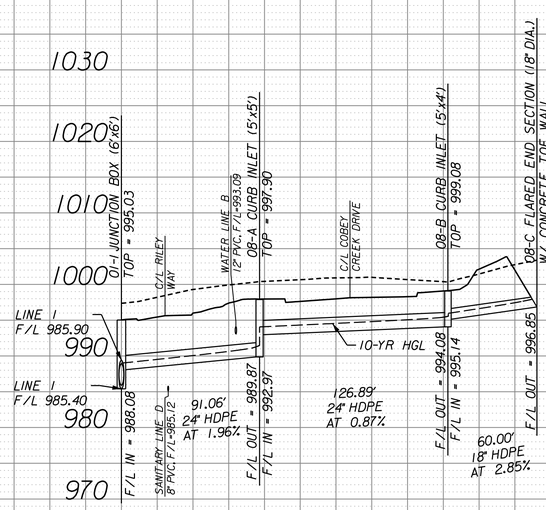
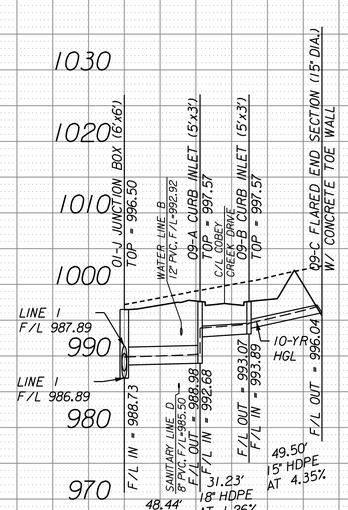
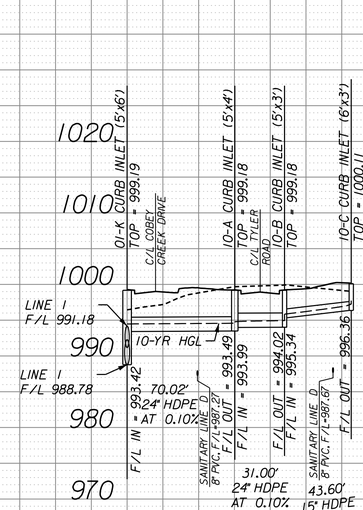


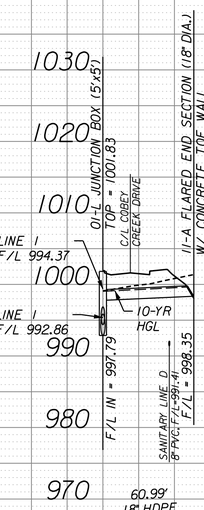
STORM SEWER LINE 8



STORM SEWER LINE 9



STORM SEWER LINE 10



STORM SEWER LINE 11

NO.	BY	CK/APP
1	RAM	RKS

DATE	REVISION
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT

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STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consult Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

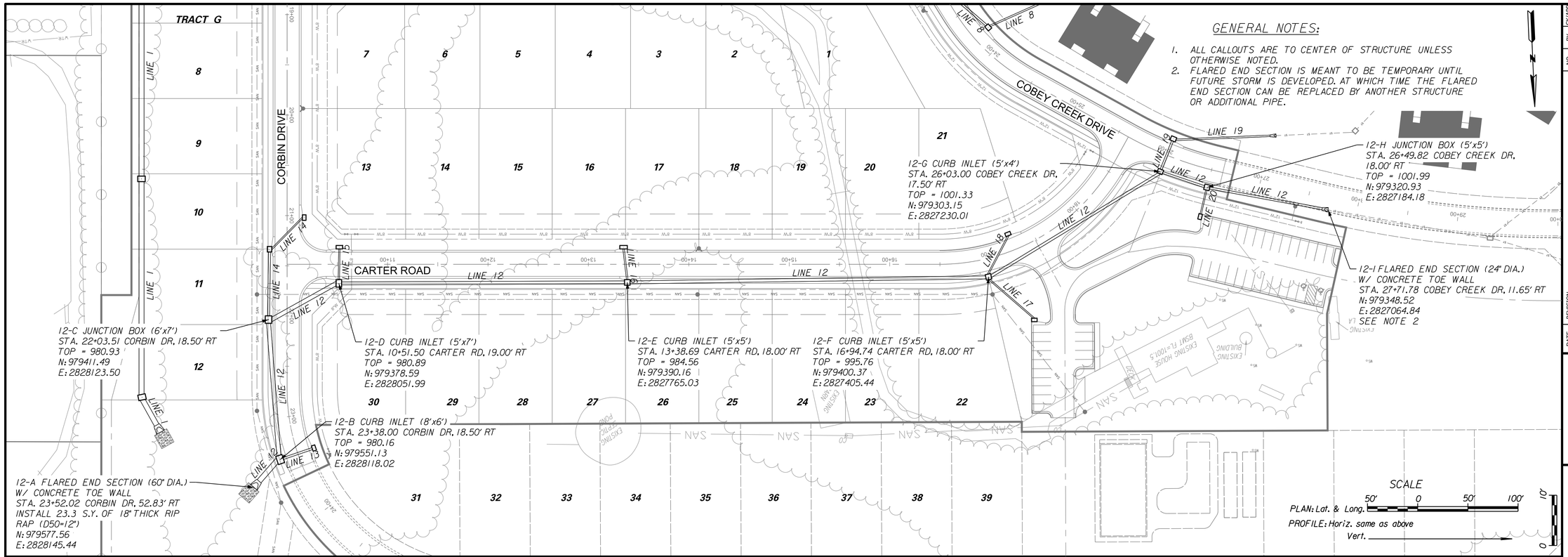
STORM SEWER LINES 8, 9, 10, AND 11

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO. XXX
DRAWING NO. XXX
DATE November 21, 2018
JOB NO. 16.059.01

11/20/2018
16.059-StormPlanProf05-Line08-01.dgn



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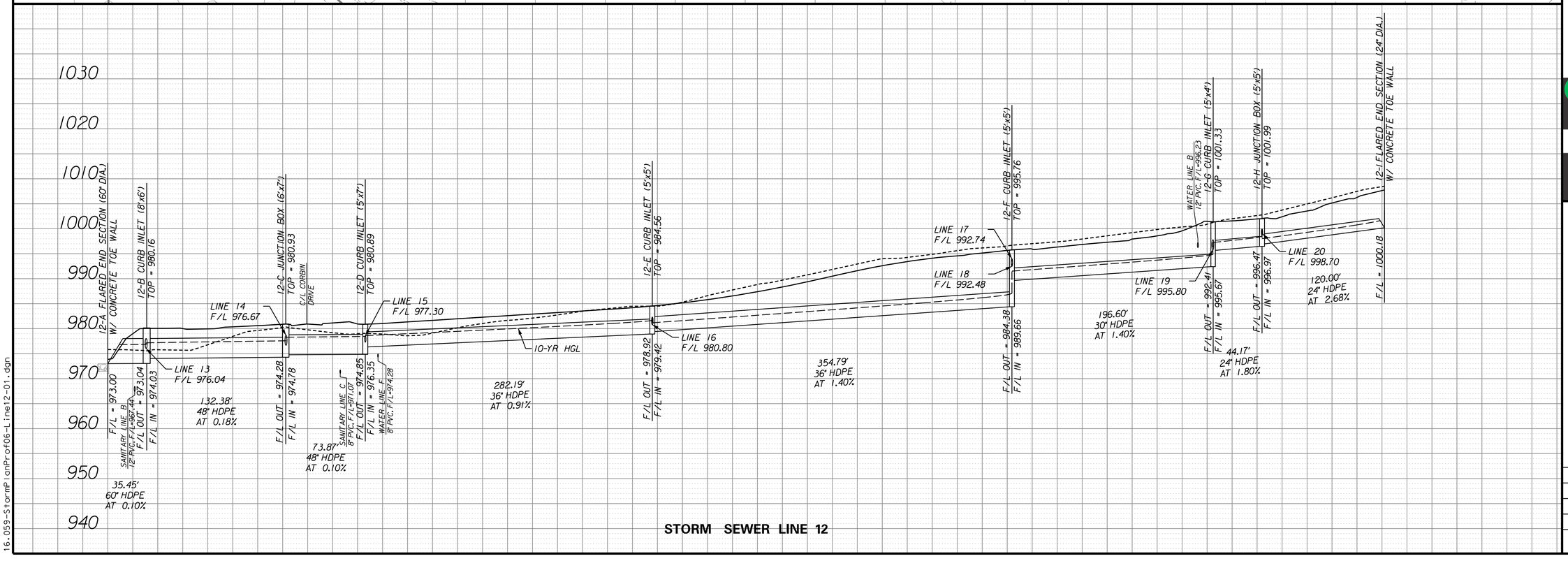

STORM SEWER LINE 12

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	RAM	RKS

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STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consult Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

STORM SEWER LINE 12

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

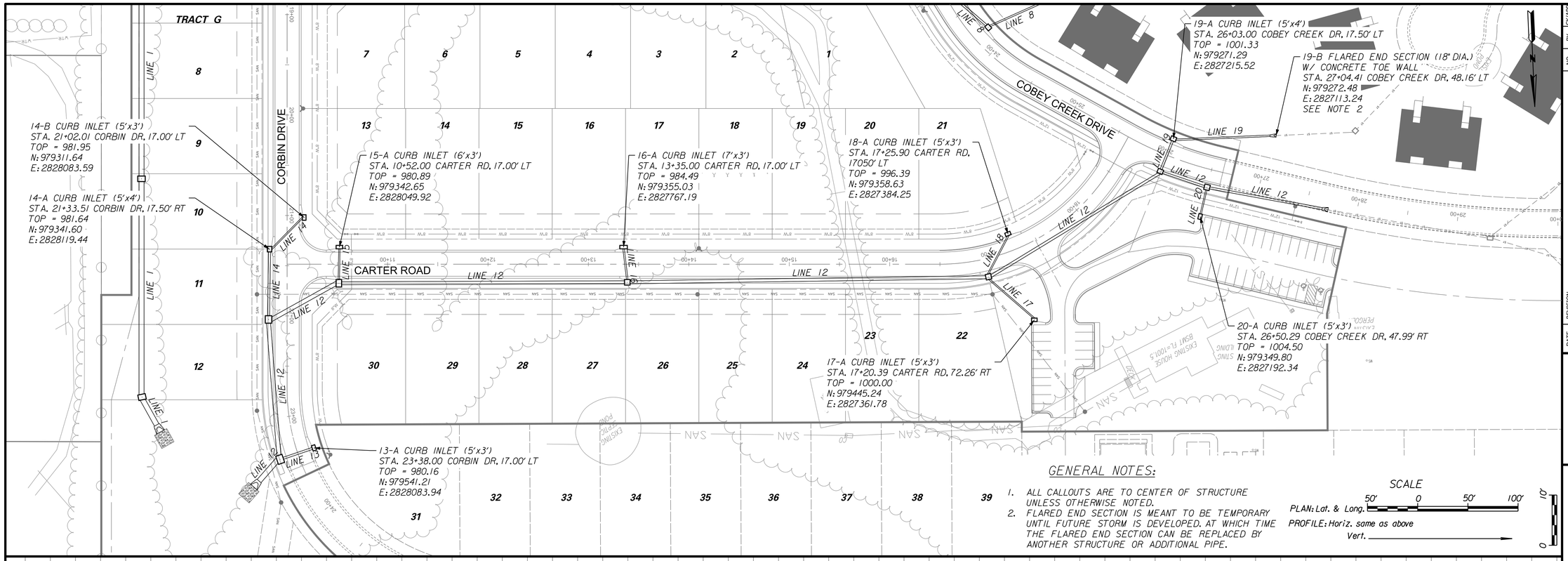
X-REF NO. XXX

DRAWING NO. XXX

DATE November 21, 2018

JOB NO. 16.059.01

11/20/2018
16.059-StormPlanProf06-Line12-01.dgn



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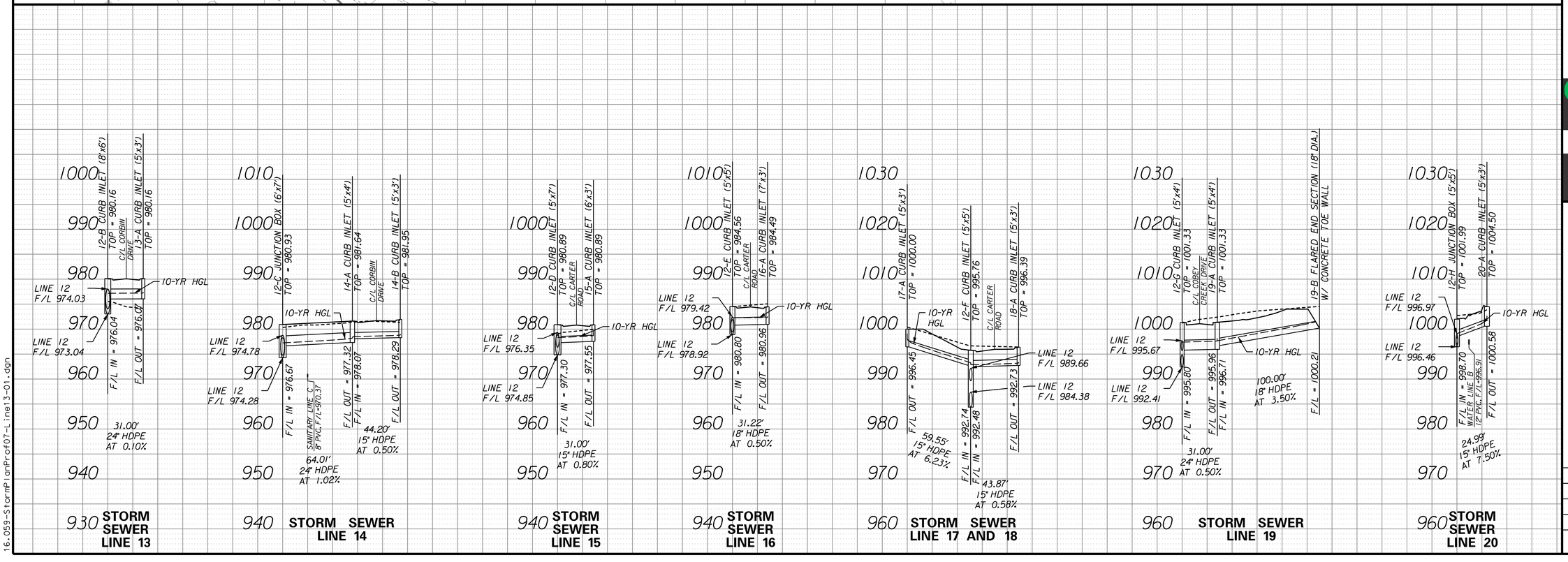
SCALE

PLAN: Lat. & Long. 50' 0 50' 100'

PROFILE: Horiz. same as above

Vert. 10' 0



NO.	BY	CK/APP	DATE	REVISION
1	RAM	RKS	11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT

STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consultec Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

STORM SEWER LINES 13, 14, 15, 16, 17, 18, 19, AND 20

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO. XXX
DRAWING NO. XXX
DATE November 21, 2018
JOB NO. 16.059.01

11/20/2018
16.059-StormPlanProf07-Line13-01.dgn

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	RAM	RKS

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STATE OF MISSOURI
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NO. E-26440
PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consult inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

DRAINAGE AREAS

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO.
XXX

DRAWING NO.
XXX

DATE
November 21, 2018

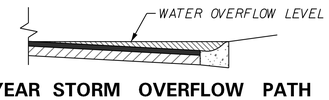
JOB NO.
16.059.01

11/20/2018
16.059-DrainageAreas-01.dgn

STORM SEWER CALCULATIONS

COBEY CREEK PHASE 1

STORM SEWER NO.	SEWER LOCATION: FROM STRUCTURE NO.	SEWER LOCATION: TO STRUCTURE NO.	TRIBUTARY AREA (AC.): AREA DESIGNATION	TRIBUTARY AREA (AC.): ACRES	TRIBUTARY AREA (AC.): TOTAL	COMPOSITE RUNOFF COEFFIEIENT	TIME OF CONCEN-TRATION	10-YEAR DESIGN (k = 1): INTENSITY [in/hr] i[10]	RUNOFF [cfs]: Q[10]	RUNOFF [cfs]: IN PIPE UPSTREAM [CFS]	RUNOFF [cfs]: BY PASS IN [CFS]	RUNOFF [cfs]: TOTAL Q[10]	RUNOFF [cfs]: IN PIPE DOWN-STREAM [CFS]	RUNOFF [cfs]: BY PASS OUT [CFS]	10-YR INLET CAPACITY [CFS]	10-YR INLET CAPACITY 80% [CFS]	10-YR SPREAD [FT]	10-YEAR HGL	100-YEAR DESIGN (k = 1.25): INTENSITY [in/hr] i[10]	RUNOFF [cfs]: Q[100]	RUNOFF [cfs]: IN PIPE UPSTREAM [CFS]	RUNOFF [cfs]: BY PASS IN [CFS]	RUNOFF [cfs]: TOTAL Q[100]	RUNOFF [cfs]: IN PIPE DOWN-STREAM [CFS]	RUNOFF [cfs]: BY PASS OUT [CFS]	100-YR INLET CAPACITY [CFS]	100-YR INLET CAPACITY 80% [CFS]	100-YEAR HGL	CURB INLET: GUTTER SLOPE [%]	CURB INLET: GUTTER CAPACITY [CFS]	CURB INLET: INLET LENGTH [FT]	PIPE DESIGN: PIPE SIZE [in]	PIPE DESIGN: PIPE SLOPE [%]	PIPE DESIGN: PIPE TYPE	PIPE DESIGN: ROUGH. COEFF. [MANN-INGS]	PIPE DESIGN: FULL VELOCITY [FPS]	PIPE DESIGN: FULL FLOW [CFS]
LINE 1	NA	NA	01-O2	6.93	6.93	0.66	5.00	7.35	33.62	NA	NA	33.62	33.62	NA	NA	NA	NA	NA	10.32	59.00	NA	NA	59.00	59.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01-O	01-N	01-O	0.14	7.08	0.51	5.00	7.35	0.52	33.62	0.00	34.14	34.14	0.00	21.85	19.55	1.32	1004.30	10.32	0.92	59.00	0.00	59.92	59.92	0.00	21.85	19.55	1022.51	NA	NA	5.00	24.00	1.33	HDPE	0.01	12.28	33.97
	01-N	01-M	01-N	0.74	7.82	0.51	5.00	7.35	2.77	34.14	0.00	36.92	36.92	0.00	2.79	2.70	6.28	1001.80	10.32	4.87	59.92	0.00	64.79	64.40	0.39	4.51	3.97	1015.37	1.00	32.45	5.00	30.00	0.91	HDPE	0.01	11.31	50.74
	01-M	01-L	NA	NA	7.82	NA	NA	NA	NA	36.92	0.00	36.92	36.92	0.00	NA	NA	NA	998.23	NA	NA	64.40	0.00	64.40	64.40	0.00	NA	NA	1012.68	NA	NA	NA	30.00	0.53	HDPE	0.01	9.01	38.96
	01-L	01-K	NA	NA	10.53	NA	NA	NA	NA	50.06	0.00	50.06	50.06	0.00	NA	NA	NA	995.48	NA	NA	87.47	0.00	87.47	87.47	0.00	NA	NA	1007.91	NA	NA	NA	36.00	0.65	HDPE	0.01	10.73	69.91
	01-K	01-J	01-K	0.29	11.99	0.51	5.00	7.35	1.09	55.74	0.00	56.83	56.83	0.00	1.07	1.08	1.77	991.83	10.32	1.91	97.83	0.00	99.73	99.73	0.00	1.88	1.88	1005.18	1.00	32.45	6.00	42.00	0.36	HDPE	0.01	8.80	78.82
	01-J	01-I	NA	NA	15.07	NA	NA	NA	NA	71.76	0.00	71.76	71.76	0.00	NA	NA	NA	990.16	NA	NA	127.29	0.00	127.29	127.29	0.00	NA	NA	1002.86	NA	NA	NA	42.00	2.80	HDPE	0.01	20.07	218.81
	01-I	01-H	NA	NA	18.42	NA	NA	NA	NA	87.71	0.00	87.71	87.71	0.00	NA	NA	NA	989.80	NA	NA	154.79	0.00	154.79	154.79	0.00	NA	NA	1001.33	NA	NA	NA	42.00	0.16	HDPE	0.01	8.82	52.49
	01-H	01-G	01-H	0.37	18.79	0.51	5.00	7.35	1.39	87.71	0.00	89.10	89.10	0.00	1.37	1.36	1.59	987.81	10.32	2.43	154.79	0.00	157.22	157.22	0.00	2.41	2.17	996.65	2.96	16.39	6.00	42.00	5.78	HDPE	0.01	27.57	314.35
	01-G	01-F	NA	NA	31.80	NA	NA	NA	NA	145.33	0.00	145.33	145.33	0.00	NA	NA	NA	983.79	NA	NA	255.86	0.00	255.86	255.86	0.00	NA	NA	995.06	NA	NA	NA	48.00	0.10	HDPE	0.01	11.03	58.10
	01-F	01-E	01-F	1.53	33.61	0.51	5.00	7.35	5.74	146.34	0.03	152.11	152.11	0.00	21.85	19.55	10.20	981.54	10.32	10.07	257.69	0.47	268.22	268.22	0.00	21.85	19.55	988.34	NA	NA	5.00	60.00	0.10	HDPE	0.01	7.29	106.84
	01-E	01-D	01-E	0.59	37.22	0.51	5.00	7.35	2.21	162.57	0.83	165.61	165.61	0.00	3.04	3.55	2.86	981.42	10.32	3.88	284.10	3.52	291.50	290.33	1.17	6.22	5.94	987.94	3.30	17.31	7.00	60.00	0.10	HDPE	0.01	7.89	107.07
	01-D	01-C	NA	NA	37.22	NA	NA	NA	NA	165.61	0.00	165.61	165.61	0.00	NA	NA	NA	980.81	NA	NA	290.33	0.00	290.33	290.33	0.00	NA	NA	985.96	NA	NA	NA	60.00	0.10	HDPE	0.01	7.89	107.17
	01-C	01-B	NA	NA	37.22	NA	NA	NA	NA	165.61	0.00	165.61	165.61	0.00	NA	NA	NA	979.44	NA	NA	290.33	0.00	290.33	290.33	0.00	NA	NA	982.47	NA	NA	NA	60.00	0.10	HDPE	0.01	7.89	106.99
	01-B	01-A	NA	NA	37.22	NA	NA	NA	NA	165.61	0.00	165.61	165.61	0.00	NA	NA	NA	978.91	NA	NA	290.33	0.00	290.33	290.33	0.00	NA	NA	981.08	NA	NA	NA	60.00	0.68	HDPE	0.01	14.61	280.14
LINE 2	02-D	02-C	02-D	0.34	0.34	0.51	5.00	7.35	1.27	0.00	0.00	1.27	1.27	0.00	1.27	1.28	1.73	1002.31	10.32	2.24	0.00	0.00	2.24	2.24	0.00	2.23	2.19	1002.57	1.61	12.09	5.00	15.00	0.50	HDPE	0.01	3.83	5.94
	02-C	02-B	02-C	0.95	1.29	0.51	5.00	7.35	3.56	1.27	0.00	4.84	4.68	0.16	3.42	3.07	6.35	1002.00	10.32	6.25	2.24	0.00	8.49	7.23	1.26	5.01	4.29	1002.45	1.61	12.09	5.00	18.00	3.30	HDPE	0.01	10.87	24.82
	02-B	02-A	02-B	1.15	2.44	0.51	5.00	7.35	4.31	4.68	0.16	9.15	8.32	0.83	3.63	3.24	4.97	991.26	10.32	7.57	7.23	1.26	16.05	12.53	3.52	5.29	4.59	992.09	3.84	18.67	5.00	18.00	3.07	HDPE	0.01	12.54	23.94
	02-A	01-E	02-A	0.58	3.02	0.51	5.00	7.35	2.17	8.32	0.00	10.49	10.46	0.03	2.16	1.98	1.85	985.28	10.32	3.82	12.53	0.00	16.35	15.88	0.47	3.37	2.95	988.66	3.30	17.31	5.00	24.00	1.73	HDPE	0.01	10.59	38.70
LINE 3	03-A	01-F	03-A	0.27	0.27	0.51	5.00	7.35	1.01	0.00	0.00	1.01	1.01	0.00	1.03	1.03	1.74	983.42	10.32	1.78	0.00	0.05	1.83	1.83	0.00	1.86	2.16	988.39	1.00	9.53	5.00	15.00	1.00	HDPE	0.01	4.64	8.40
LINE 4	04-A	01-G	04-A	0.54	0.54	0.51	5.00	7.35	2.02	0.00	0.00	2.02	2.02	0.00	2.04	2.05	4.24	986.14	10.32	3.55	0.00	0.00	3.55	3.50	0.05	3.53	3.23	995.27	1.00	9.53	5.00	15.00	0.08	HDPE	0.01	2.21	2.42
LINE 5	NA	NA	05-G2	1.40	1.40	0.81	5.00	7.35	8.33	NA	NA	8.33	8.33	NA	NA	NA	NA	NA	10.32	14.63	NA	NA	14.63	14.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05-G	05-F	05-G	0.11	1.51	0.51	5.00	7.35	0.41	8.33	0.00	8.75	8.75	0.00	21.85	19.55	1.19	1003.14	10.32	0.72	14.63	0.00	15.35	15.35	0.00	21.85	19.55	1023.20	NA	NA	5.00	15.00	1.08	HDPE	0.01	8.09	8.72
	05-F	05-E	05-F	0.08	1.58	0.51	5.00	7.35	0.30	8.75	0.00	9.05	9.05	0.00	0.28	0.29	1.08	1001.07	10.32	0.53	15.35	0.00	15.88	15.88	0.00	0.50	0.50	1019.63	1.00	9.53	5.00	15.00	1.50	HDPE	0.01	9.47	10.29
	NA	NA	05-E2	2.00	2.00	0.81	5.00	7.35	11.91	9.05	NA	20.95	20.95	NA	NA	NA	NA	NA	10.32	20.90	15.88	NA	36.78	36.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05-E	05-D	05-E	2.46	6.05	0.51	5.00	7.35	9.22	20.95	0.00	30.18	30.18	0.00	24.15	21.39	9.33	996.66	10.32	16.18	36.78	0.00	52.96	52.96	0.00	24.15	21.39	1012.81	NA	NA	6.00	24.00	5.00	HDPE	0.01	20.40	65.76
	05-D	05-C	05-D	0.14	6.19	0.51	5.00	7.35	0.52	30.18	0.00	30.70	30.70	0.00	0.53	0.54	1.04	994.62	10.32	0.92	52.96	0.00	53.88	53.88	0.00	0.94	0.93	1009.31	4.20	66.50	5.00	24.00	3.46	HDPE	0.01	17.83	54.72
	05-C	05-B	NA	NA	6.19	NA	NA	NA	NA	30.70	0.00	30.70	30.70	0.00	NA	NA	NA	991.97	NA	NA	53.88	0.00	53.88	53.88	0.00	NA	NA	1004.92	NA	NA	NA	30.00	0.92	HDPE	0.01	10.81	51.01
	05-B	05-A	05-B	1.65	8.97	0.51	5.00	7.35	6.19	34.93	0.00	41.11	40.92	0.19	5.99	5.42	10.16	987.69	10.32	10.86	60.46	0.00	71.31	69.50	1.81	9.04	7.79	1000.05	1.43	38.80	7.00	36.00	0.43	HDPE	0.01	8.64	56.53
	05-A	01-G	05-A	1.83	12.46	0.51	5.00	7.35	6.86	47.15	0.19	54.20	54.20	0.00	28.75	25.07	10.03	984.32	10.32	12.04	81.28	1.81	95.13	95.13	0.00	28.75	25.07	997.33	NA	NA	8.00	36.00	4.47	HDPE	0.01	22.15	183.37
LINE 6	06-A	05-A	06-A	1.66	1.66	0.51	5.00	7.35	6.22	0.00	0.01	6.23	6.23	0.00	21.85	19.55	9.27	987.68	10.32	10.92	0.00	0.86	11.78	11.78	0.00	21.85	19.55	999.17	NA	NA	5.00	15.00	0.55	HDPE	0.01	5.79	6.24
LINE 7	07-A	05-B	07-A	1.13	1.13	0.51	5.00	7.35	4.24	0.00	0.00	4.24	4.23	0.01	4.24	3.95	8.53	991.78	10.32	7.43	0.00	0.00	7.43	6.57	0.86	6.60	5.75	1000.90	1.13	10.13	6.00	15.00	0.26	HDPE	0.01	3.94	4.25
LINE 8	08-C	08-B	08-C	2.38	2.38	0.66	5.00	7.35	11.55	0.00	0.00	11.55	11.55	0.00	NA	NA	NA	998.94	10.32	20.26	0.00	0.00	20.26	20.26	0.00	NA	NA	1007.80	NA	NA	NA	18.00	2.85	HDPE	0.01	13.07	23.07
	08-B	08-A	08-B	0.79	3.18	0.66	5.00	7.35	3.83	11.55	0.05	15.43	15.32	0.11	3.79	3.62	8.39	995.90	10.32	6.73	20.26	0.93	27.92	26.38	1.54	6.14	5.55	1004.38	1.00	32.45	5.00	24.00	0.87	HDPE	0.01	8.97	27.45
	08-A	01-I	08-A	0.17	3.35	0.51	5.00	7.35	0.64	15.32	0.00	15.95	15.95	0.00	0.65	0.65	1.47	991.60	10.32	1.12	26.38	0.00	27.50	27.50	0.00	1.14	1.14	1002.56	1.00	32.45	5.00	24.00	1.96	HDPE	0.01	12.24	41.21
LINE 9	09-C	09-B	09-C	1.77	1.77	0.66	5.00	7.35	8.59	0.00	0.00	8.59	8.59	0.00	NA	NA	NA	998.02	10.32	15.07	0.00	0.00	15.07	15.07	0.00	NA	NA	1008.78	NA	NA	NA	15.00	4.35	HDPE	0.01	14.20	17.52
	09-B	09-A	09-B	1.17	2.93	0.66	5.00	7.35	5.68	8.59	0.11	14.37	14.37	0.00	21.85	19.55	6.49	994.60	10.32	9.96	15.07	1.54	26.57	26.57	0.00	21.85	19.55	1004.80	NA	NA	5.00	18.00	1.26	HDPE	0.01	9.82	15.34
	09-A	01-J	09-A	0.15	3.08	0.51	5.00	7.35	0.56	14.37	0.00	14.93	14.93	0.00	21.85	19.55	1.32	990.37	10.32	0.99	26.57	0.00	27.56	27.56	0.00	21.85	19.55	1003.37	NA	NA	5.00	30.00	0.45	HDPE	0.01	6.92	35.66
LINE 10	10-C	10-B	10-C	0.82	0.82	0.66	5.00	7.35	3.98	0.00	0.00	3.98	3.98	0.00	3.96	3.86	8.47	997.60	10.32	6.98	0.00	0.39	7.37	6.66	0.71	6.62	6.07	1006.33	1.00	32.45	6.00	15.00	2.34	HDPE	0.01	9.20	12.84
	10-B	10-A	10-B	0.23	1.05	0.66	5.00	7.35	1.12	3.98	0.00	5.09	5.09	0.00	21.85	19.55	1.21	995.09	10.32	1.96	6.66	0.71	9.33	9.33	0.00	21.85	19.55	1005.52	NA	NA	5.00	24.00	0.10	HDPE	0.01	3.02	9.30
	10-A	01-K	10-A	0.12	1.17	0.66	5.00	7.35	0.58	5.09	0.00	5.68	5.68	0.00	21.85	19.55	0.96	994.63	10.32	1.02	9.33	0.00	10.35	10.35	0.00	21.85	19.55	1005.36	NA	NA	5.00	24.00	0.10	HDPE	0.01	3.13	9.30
LINE 11	11-A	01-L	11-A	2.71	2.71	0.66	5.00	7.35	13.15	0.00	0.00	13.15	13.15	0.00	NA	NA	NA	1000.66	10.32	23.07	0.00	0.00	23.07	23.07	0.00	NA	NA	1012.38	NA	NA	NA	18.00	0.91	HDPE	0.01	8.41	13.05
LINE 12	12-I	12-H	12-I	6.18	6.18	0.51	5.00	7.35	23.17	0.00	0.00	23.17	23.17	0.00	NA	NA	NA	1001.96	10.32	40.66	0.00	0.00	40.66	40.66	0.00	NA	NA	1015.08	NA	NA	NA	24.00	2.68	HDPE	0.01	15.19	48.15
	12-H	12-G	NA	NA	8.81	NA	NA	NA	NA	27.29	0.00	27.29	27.29	0.00	NA	NA	NA	999.62	NA	NA	47.90	0.00	47.90	47.90	0.00	NA	NA	1012.74	NA	NA	NA	24.00	1.80	HDPE	0.01	14.06	39.46
	12-G	12-F	12-G	0.34	13.40	0.51	5.00	7.35	1.27	47.81	0.00	49.08	49.08	0.00	1.29	1.30	1.90	996.11	10.32	2.24	83.06	0.00	85.30	85.30	0.00	2.27	2.26	1007.26	1.00	32.45	5.00	30.00	1.40	HDPE	0.01	14.43	63.05
	12-F	12-E	12-F	0.61	16.26	0.51	5.00	7.35	2.29	57.52	0.00	59.80	59.80	0.00	2.27	2.13	1.98	987.40	10.32	4.01	100.10	0.00	104.12	103.68	0.44	3.55	3.10	996.91	2.50	15.07	5.00	36.00	1.36	HDPE	0.01	15.19	101.09
	12-E	12-D	12-E	1.14	19.05	0.51	5.00	7.35	4.27	65.70	0.00	69.97	69.52	0.45	3.83	3.43	7.01	982.26	10.32	7.50	112.40	0.44	120.34	118.05	2.29	5.66	4.92	989.95	1.87	13.03	5.00	36.00	0.91	HDPE	0.01	13.24	82.72
	12-D	12-C	12-D	0.66	21.67	0.51	5.00	7.35	2.47	77.20	0.45	80.12	80.12	0.00	21.85	19.55	5.18	978.41	10.32	4.34	133.14	2.29	139.78	139.78	0.00	21.85	19.55	981.78	NA	NA	5.00	48.00	0.09	HDPE	0.01	6.68	57.54
	12-C	12-B	NA	NA	23.06	NA	NA	NA	NA	85.23	0.00	85.23	85.23	0.00	NA	NA	NA	978.23	NA	NA	148.52	0.00	148.52	148.52	0.00	NA	NA	981.27	NA	NA	NA	48.00	0.18	HDPE	0.01	7.03	79.05
	12-B	12-A	12-B	0.68	25.53	0.51	5.00	7.35	2.55	91.94	0.06	94.55	94.55	0.00	28.75	25.07	4.37	976.95	10.32	4.47	160.30	1.50	166.27	166.27	0.00	28.75	25.07	978.58	NA	NA	8.00	60.00	0.10	HDPE	0.01	6.33	106.84
LINE 13	13-A	12-B	13-A	1.79	1.79	0.51	5.00	7.35	6.71	0.00	0.00	6.71	6.71	0.00	21.85	19.55	7.43	977.38	10.32	11.78	0.00	0.00	11.78	11.78	0.00	21.85	19.55	978.86	NA	NA	5.00	24.00	0.10	HDPE	0.01	3.14	9.30
LINE 14	14-B	14-A	14-B	0.41	0.41	0.51	5.00	7.35	1.54	0.00	0.00	1.54	1.54	0.00	1.53	1.54	2.20	978.98	10.32	2.70	0.00	0.00	2.70	2.70	0.00	2.69	2.62	981.53	1.01	9.58	5.00	15.00	0.50	HDPE	0.01	4.03	5.94
	14-A	12-C	14-A	0.97	1.38	0.51	5.00	7.35	3.64	1.54	0.00	5.17	5.11	0.06	3.59	3.44	7.94	978.35	10.32	6.38	2.70	1.17	10.25	8.75	1.50	6.08	5.87	981.41	1.01	9.58	5.00	24.00	0.90	HDPE	0.01	6.75	27.83
LINE 15	15-A	12-D	15-A	1.96	1.96	0.51	5.00	7.35	7.35	0.00	0.33	7.68	7.68	0.00	24.15	21.39	10.55	979.78	10.32	12.89	0.00	2.20	15.09	15.09	0.00	24.15	21.39	984.34	NA	NA	6.00	15.00	0.80	HDPE	0.01	6.99	7.51
LINE 16	16-A	12-E	16-A	1.66	1.66	0.51	5.00	7.35	6.22	0.00	0.00	6.22	5.89	0.33	5.88	5.25	9.33	982.51	10.32	10.92	0.00	0.00	10.92	8.72	2.20	8.70	7.49	990.76	1.87	13.03	7.00	18.00	0.50	HDPE	0.01	5.76	9.65
LINE 17	17-A	12-F	17-A	1.90	1.90	0.51	5.00	7.35	7.12	0.00	0.00	7.12	7.12	0.00	21.85	19.55	7.83	998.60	10.32	12.50	0.00	0.00	12.50	12.50	0.00	21.85	19.55	1001.39	NA	NA	5.00	15.00	5.79	HDPE	0.01	15.05	20.21
LINE 18	18-A	12-F	18-A	0.35	0.35	0.51	5.00	7.35	1.31	0.00	0.00	1.31	1.31	0.00	1.29	1.30	1.63	993.35	10.32	2.30	0.00	0.00	2.30	2.30	0.00	2.27	2.15	997.00	2.26	14.32	5.00	15.00	0.58	HDPE	0.01	4.10	6.38
LINE 19	19-B	19-A	19-B	3.50	3.50	0.66	5.00	7.35	16.98	0.00	0.00	16.98	16.98	0.00	NA	NA	NA	1003.17	10.32	29.80	0.00	0.00	29.80	29.80	0.00	NA	NA	1018.44	NA	NA	NA	18.00	3.50	HDPE	0.01	15.48	25.55
	19-A	12-G	19-A	0.74	4.24	0.66	5.00	7.35	3.59	16.98	0.00	20.57	20.52	0.05	3.55	3.25	7.89	998.13	10.32	6.30	29.80	0.00	36.10	35.17	0.93	5.40	4.67	1009.12	1.00	32.45	5.00	24.00	0.50	HDPE	0.01	7.55	20.80
LINE 20	20-A	12-H	20-A	1.10	1.10	0.51	5.00	7.35	4.12	0.00	0.00	4.12	4.12	0.00	21.85	19.55	4.32	1001.95	10.32	7.24	0.00	0.00	7.24	7.24	0.00	21.85	19.55	1013.50	NA	NA	5.00	15.00	7.50	HDPE	0.01	14.19	23.00



100 YEAR STORM OVERFLOW PATH

NOT TO SCALE

THE STREET GUTTERING SYSTEM WILL SERVE AS THE ROUTING FOR STORM FLOWS THAT EXCEED THE PIPE SYSTEM CAPACITY (10 YEAR STORM FREQUENCY). BASED ON THE STREET TYPICAL SECTION AND PROFILE GRADES OF 1% TO 4.2%, BY IZZARD'S TRIANGULAR SECTION FLOW FORMULA, CAPACITY WITHIN THE CURBS (32.5-66.5 CFS FOR CG1, 9.5-18.7 CFS FOR CG2) WILL HANDLE THE OVERFLOW FROM THE FLOWS FROM HIGHER FREQUENCY STORMS.

NO.	BY	CK/APP	DATE	REVISION
1	RAM	RKS	11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT

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STATE OF MISSOURI — R. KEVIN STERRETT — NUMBER PE-2004020227 — PROFESSIONAL ENGINEER

11/21/18

R. KEVIN STERRETT, MO E-26440

Consult Inc engineers planners

11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005073

STORM SEWER CALCULATIONS

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

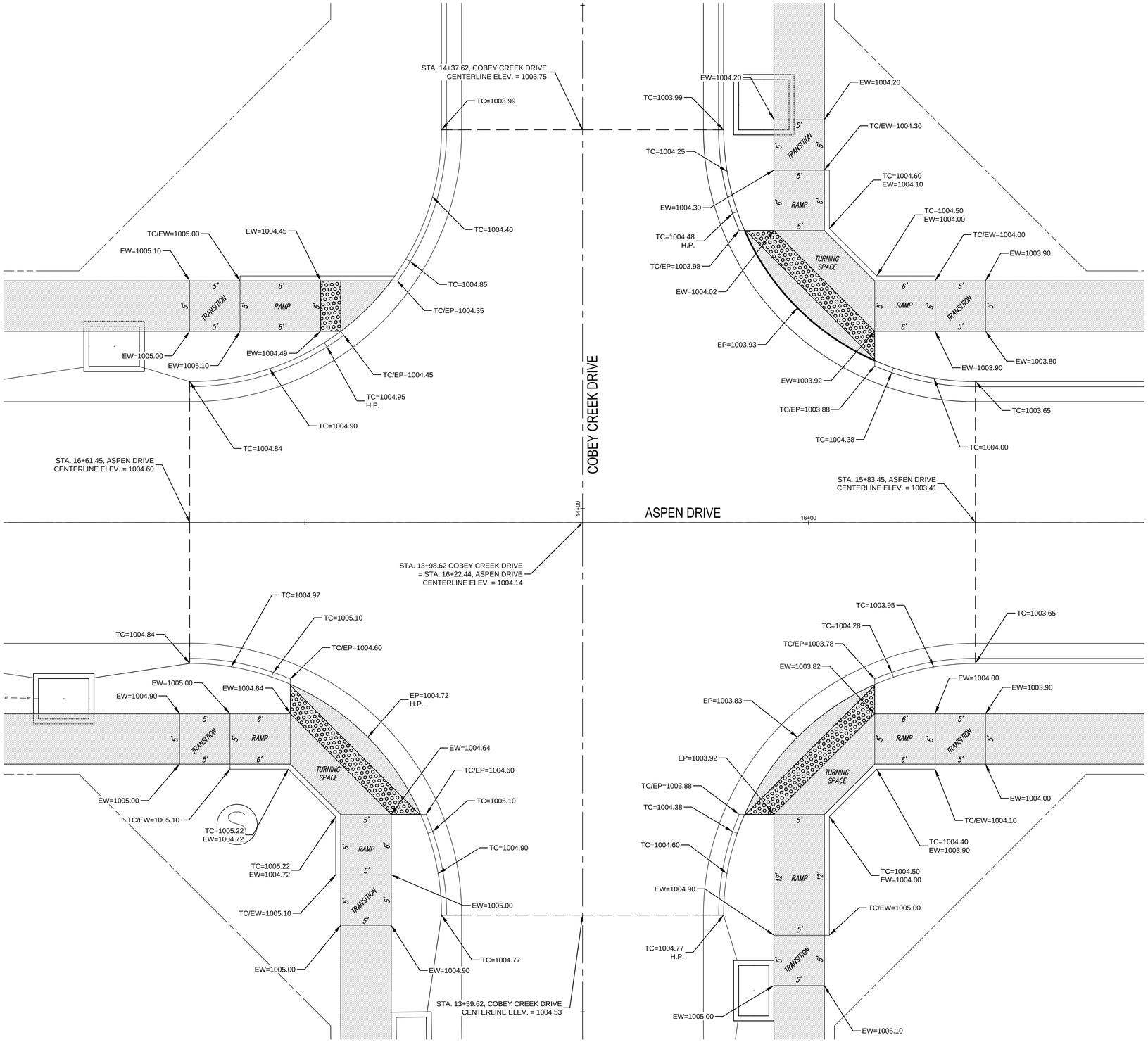
X-REF NO. XXX

DRAWING NO. XXX

DATE November 21, 2018

JOB NO. 16.059.01

11/20/2018
16.059-StormSewerCalc.dgn



COBEY CREEK DRIVE AND ASPEN DRIVE
INTERSECTION DETAIL

0 5' 10' 15'
SCALE: 1" = 5'

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEES SUMMIT	1	SPW	RKS

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STATE OF MISSOURI
RICHARD KEVIN STERRETT
NUMBER E-26440
REGISTERED PROFESSIONAL ENGINEER

R. KEVIN STERRETT | MO E-26440
November 21, 2018

Consult Inc engineers planners
110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E201000573 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
INTERSECTION AND ADA RAMP DETAILS
COBEY CREEK DRIVE AND ASPEN DRIVE

COBEY CREEK FIRST PLAT
PHASE I

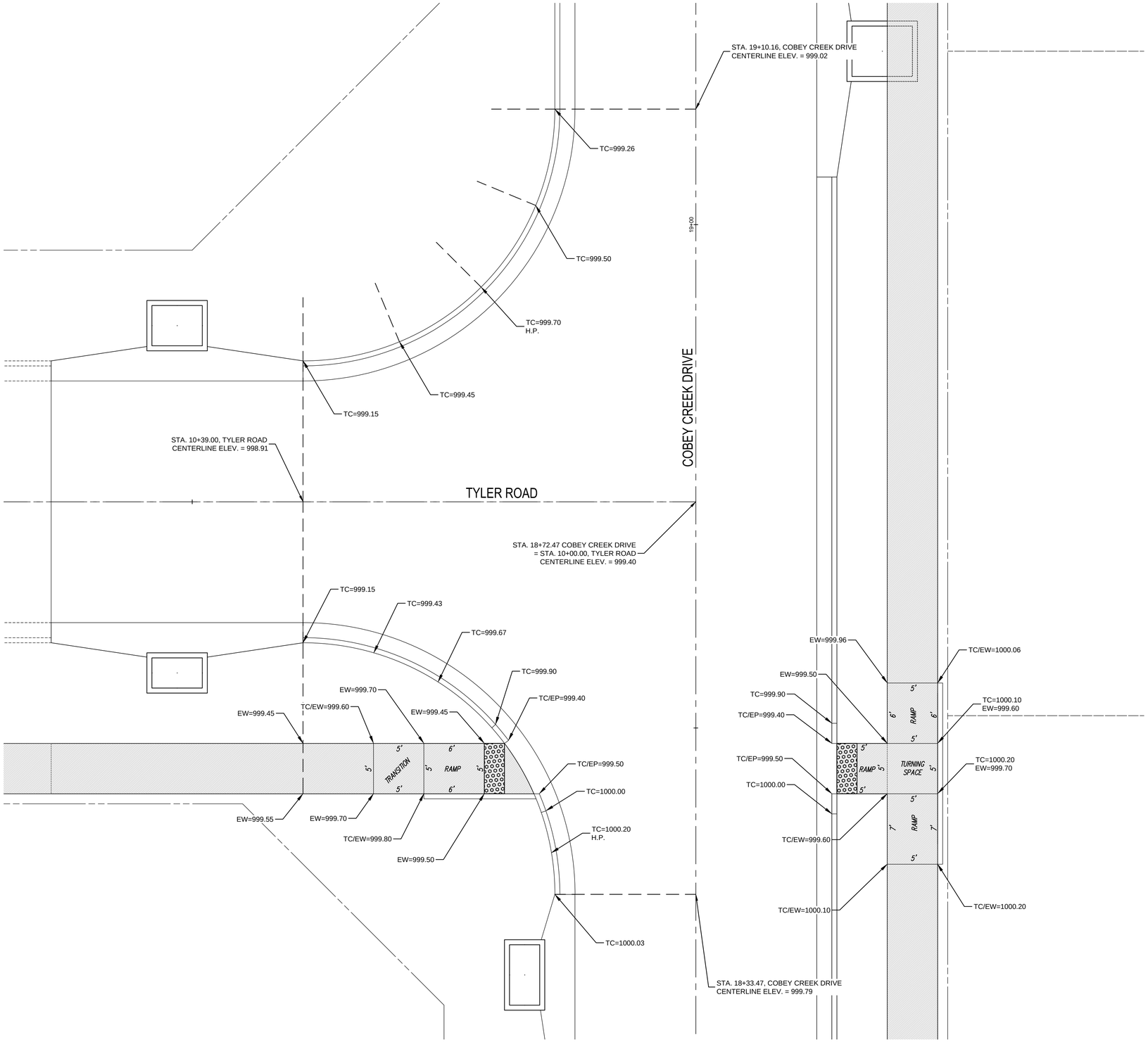
CITY OF LEES SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO.
16-059 Base Phase I

DRAWING NO.
16-059 Phase I Street Plans

DATE
November 21 2018

JOB NO.
16-059



COBEY CREEK DRIVE AND TYLER ROAD
INTERSECTION DETAIL

0 5' 10' 15'
SCALE: 1" = 5'

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEES SUMMIT	1	SPW	RKS

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STATE OF MISSOURI
RICHARD KEVIN STERRETT
NUMBER E-26440
REGISTERED PROFESSIONAL ENGINEER

R. KEVIN STERRETT | MO E-26440
November 21, 2018

Consult Inc engineers planners
110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010005 73 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
INTERSECTION AND ADA RAMP DETAILS
COBEY CREEK DRIVE AND TYLER ROAD

COBEY CREEK FIRST PLAT
PHASE I

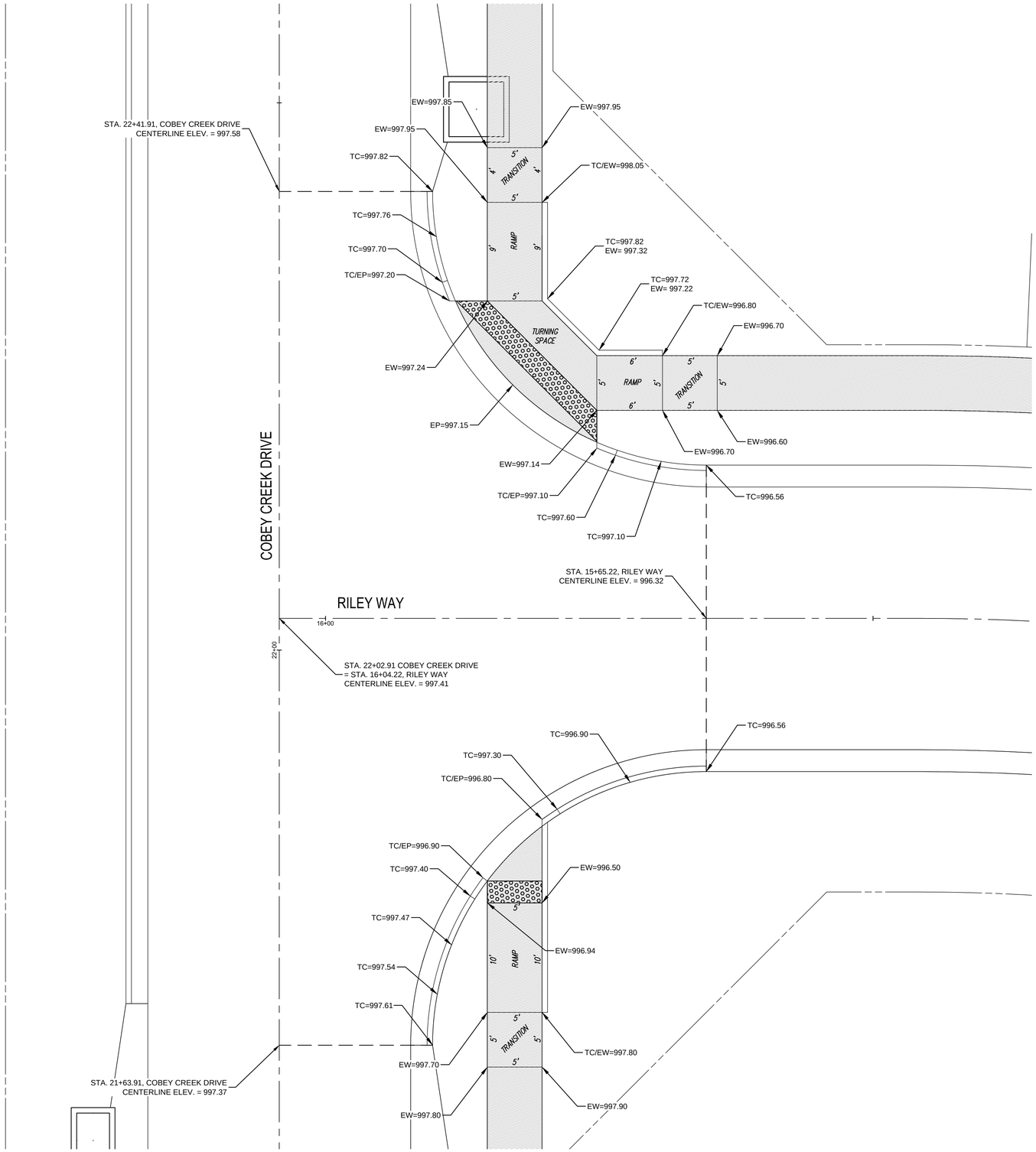
CITY OF LEES SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO.
16-059 Base Phase I

DRAWING NO.
16-059 Phase I Street Plans

DATE
November 21 2018

JOB NO.
16-059



COBEY CREEK DRIVE AND RYLIE WAY
INTERSECTION DETAIL

0 5' 10' 15'
SCALE: 1" = 5'

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEES SUMMIT	1	SPW	RKS

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STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
REGISTERED PROFESSIONAL ENGINEER

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November 21, 2018

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STREET AND STORM SEWER PLANS
INTERSECTION AND ADA RAMP DETAILS
COBEY CREEK DRIVE AND RILEY WAY

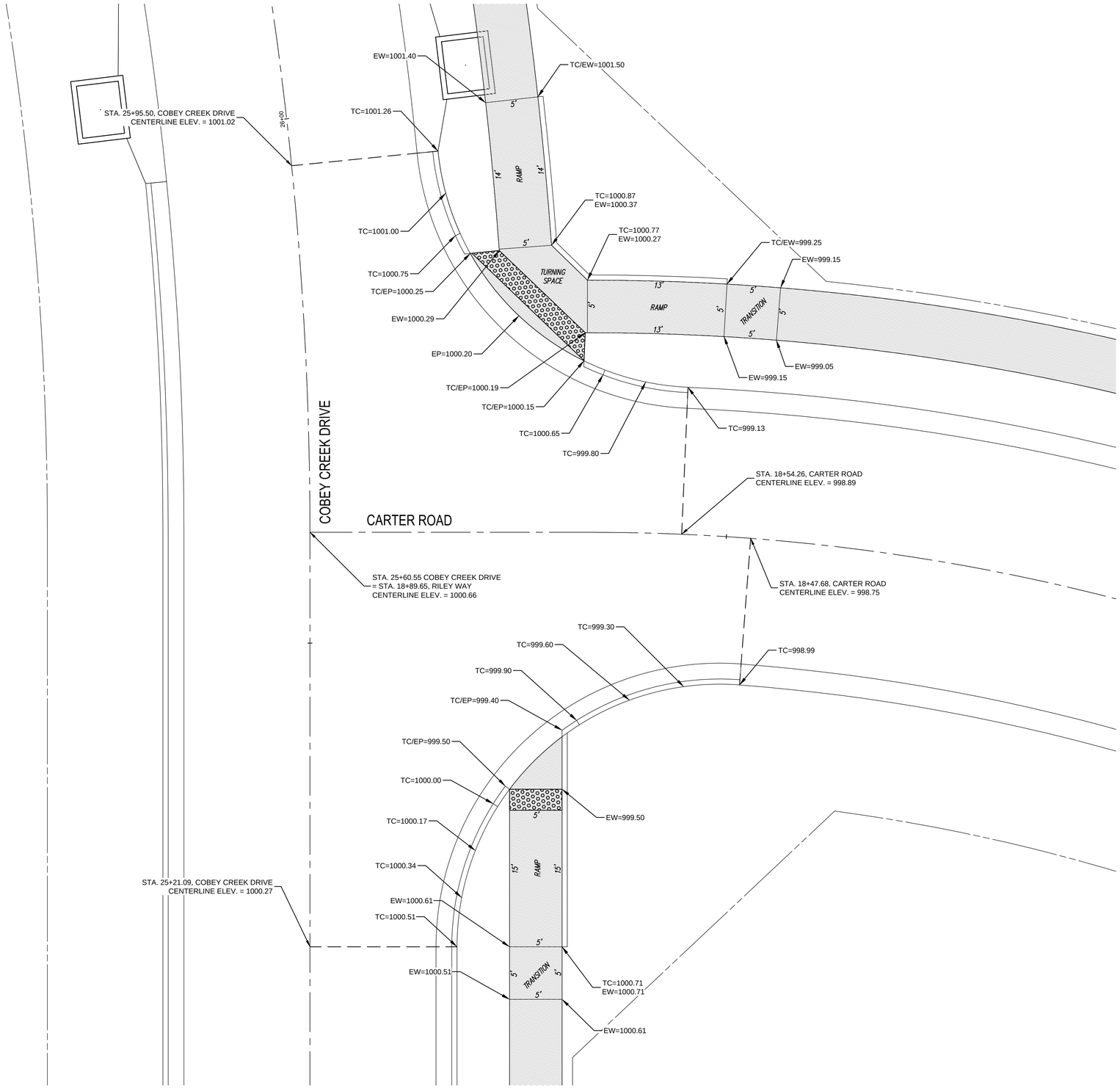
COBEY CREEK FIRST PLAT
PHASE I
CITY OF LEES SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO.
16-059 Base Phase I

DRAWING NO.
16-059 Phase I Street Plans

DATE
November 21 2018

JOB NO.
16-059



COBEY CREEK DRIVE AND CARTER ROAD
INTERSECTION DETAIL

SCALE: 1" = 5'

0 5' 10' 15'
SCALE: 1" = 5'

DATE	REVISION	NO.	BY	CK/APP
11/27/18	SUBMITTAL TO CITY OF LEES SUMMIT	1	SPW	RKS

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STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
REGISTERED PROFESSIONAL ENGINEER

R. KEVIN STERRETT | MO E-26440
November 21, 2018

Consult Inc engineers planners
110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010005 73 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
INTERSECTION AND ADA RAMP DETAILS
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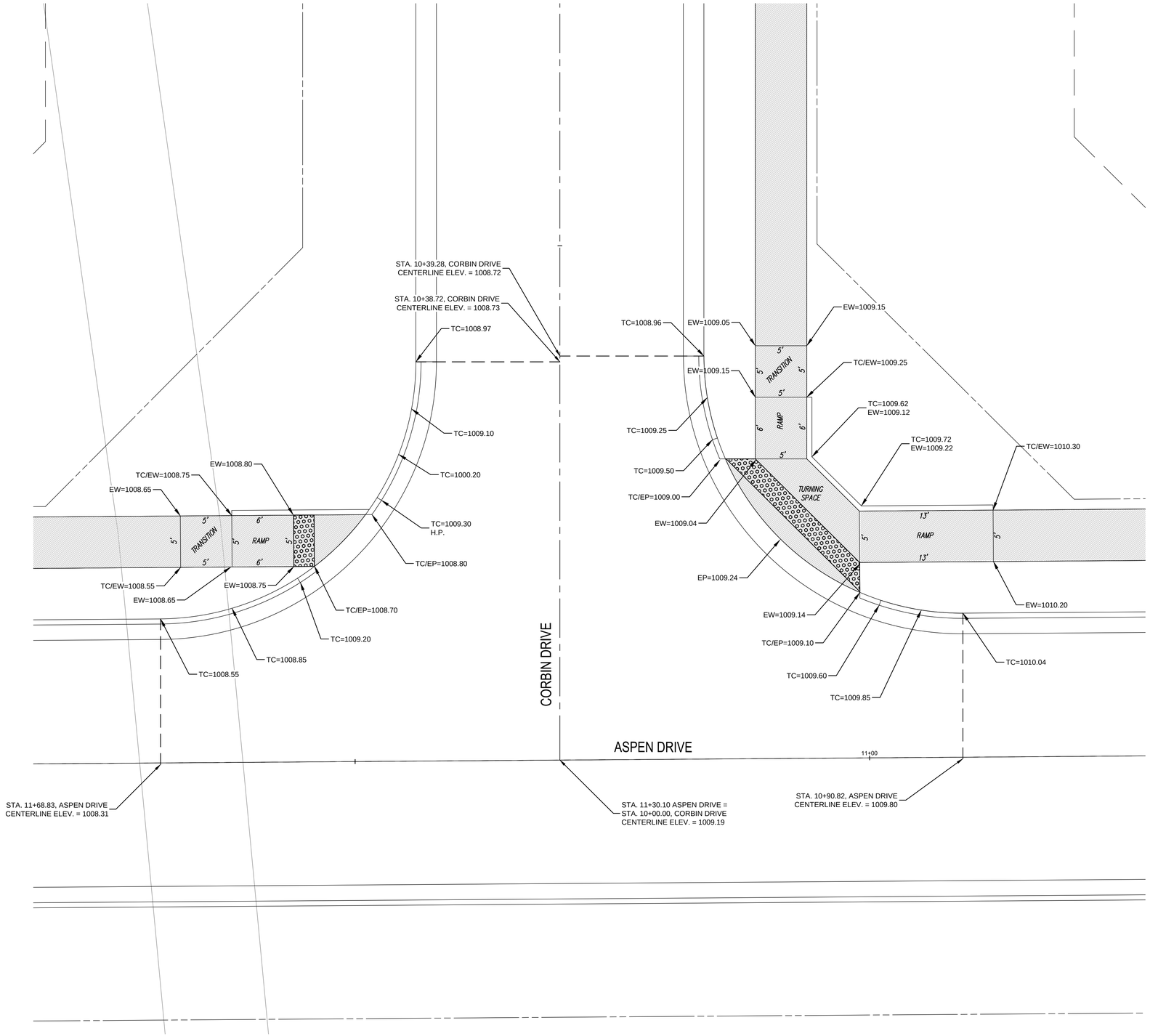

ASPEN DRIVE AND CORBIN DRIVE
INTERSECTION DETAIL

0 5' 10' 15'
SCALE: 1" = 5'

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ASPEN DRIVE AND CORBIN DRIVE

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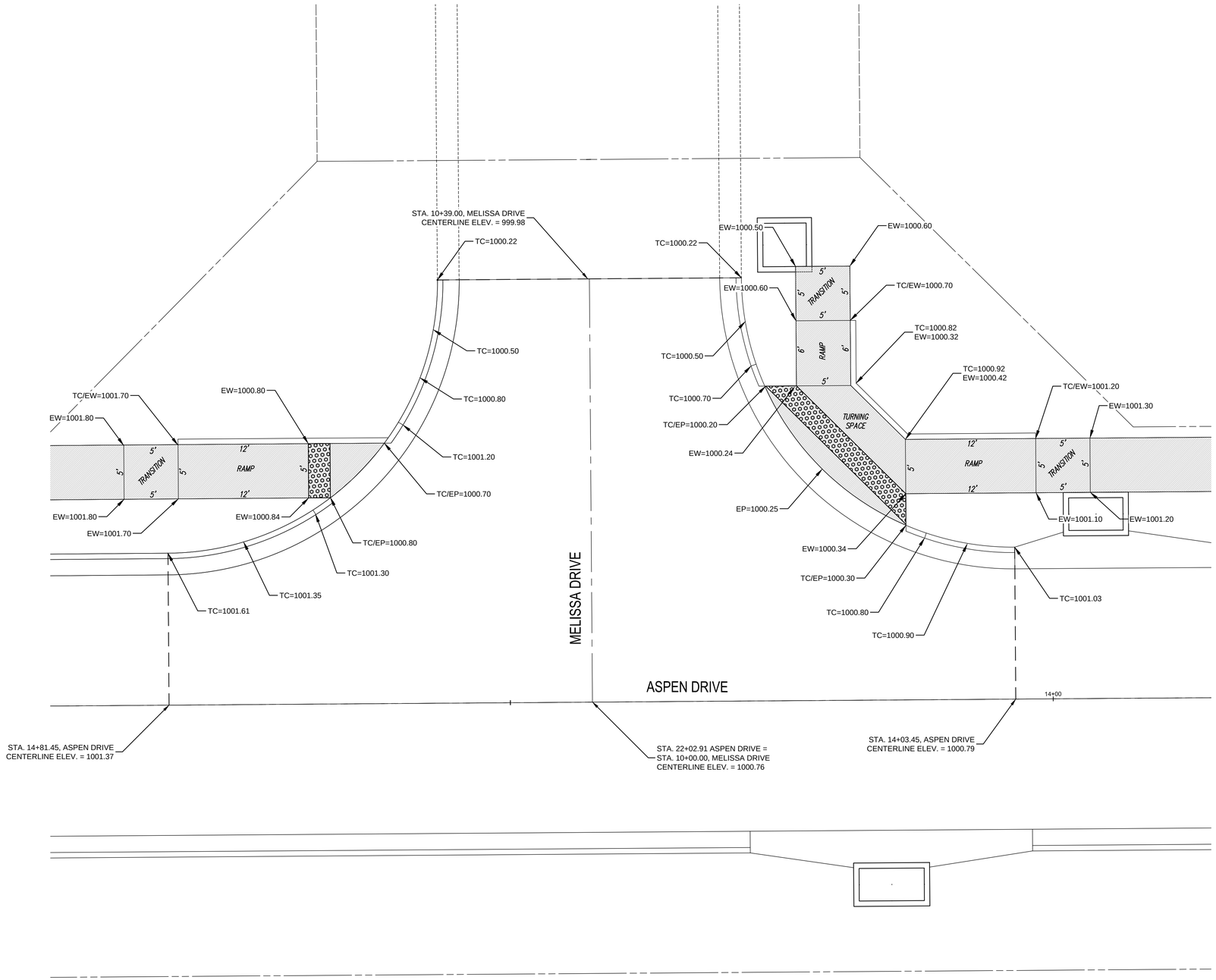

ASPEN DRIVE AND MELISSA DRIVE
INTERSECTION DETAIL

0 5' 10' 15'
SCALE: 1" = 5'

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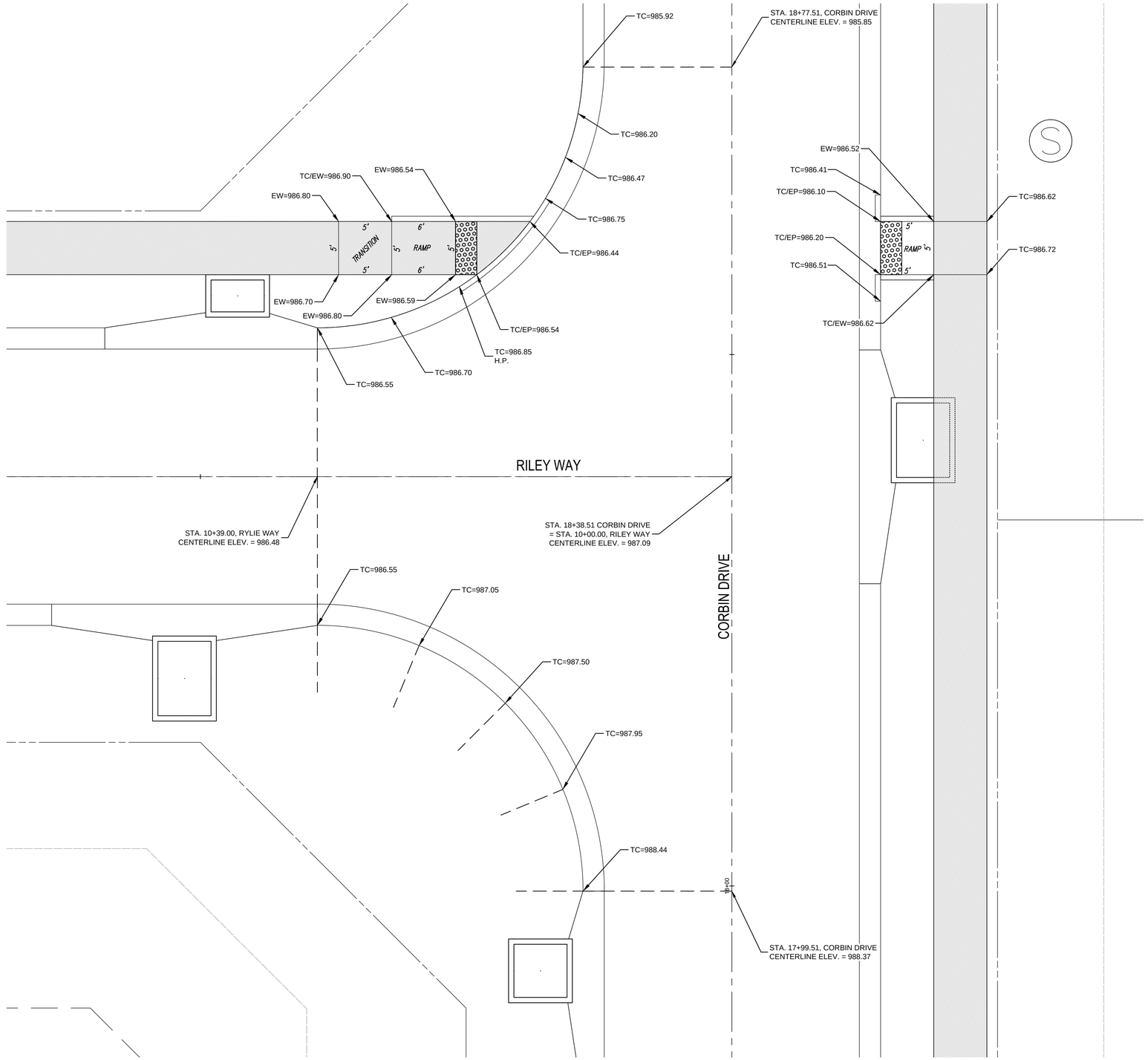

CORBIN DRIVE AND RILEY WAY
INTERSECTION DETAIL
SCALE: 1" = 5'

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11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
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CORBIN DRIVE AND RILEY WAY

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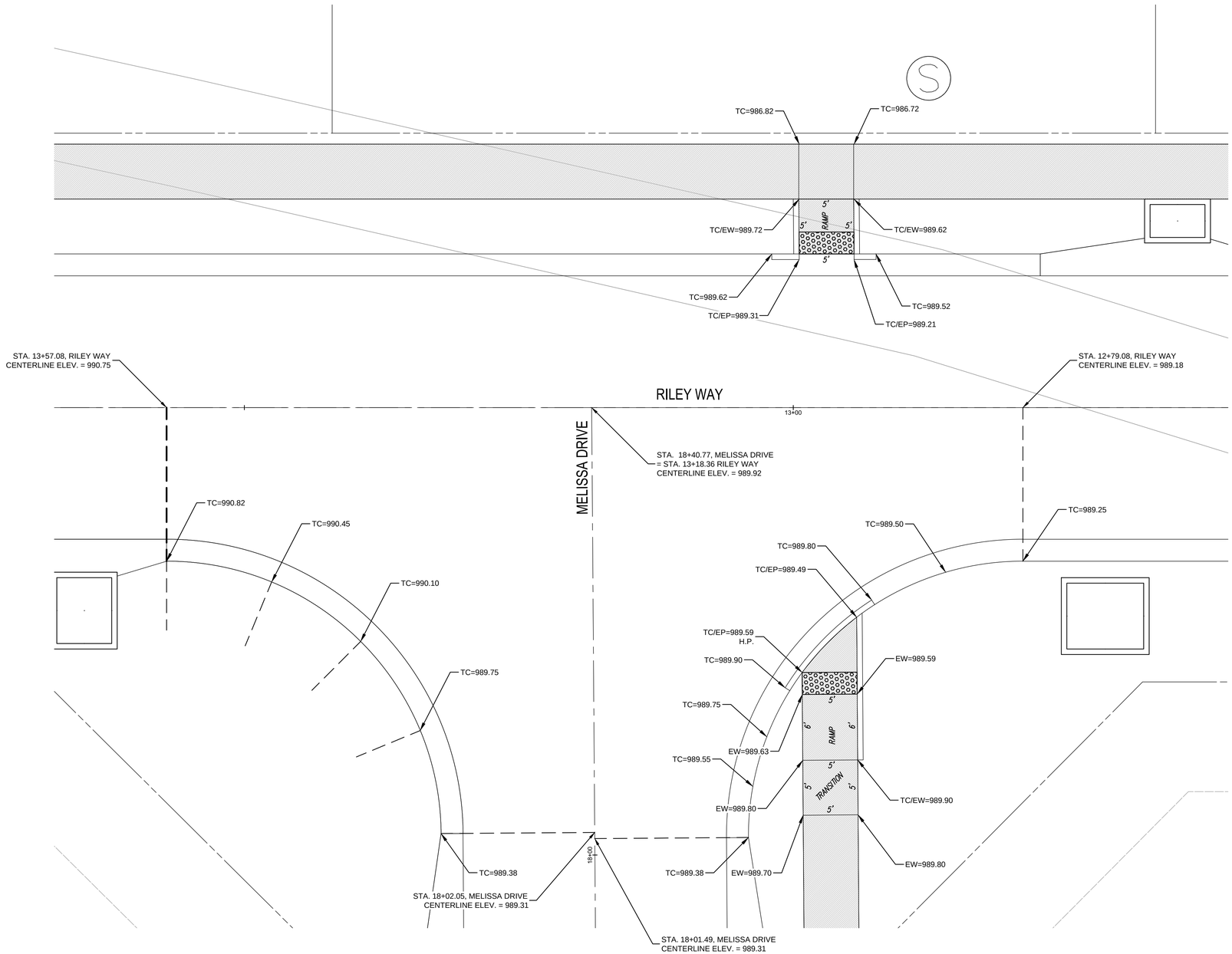
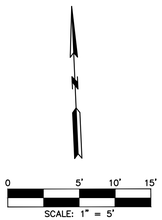


RILEY WAY AND MELISSA DRIVE
INTERSECTION DETAIL

SCALE: 1" = 5'



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INTERSECTION AND ADA RAMP DETAILS
RILEY WAY AND MELISSA DRIVE

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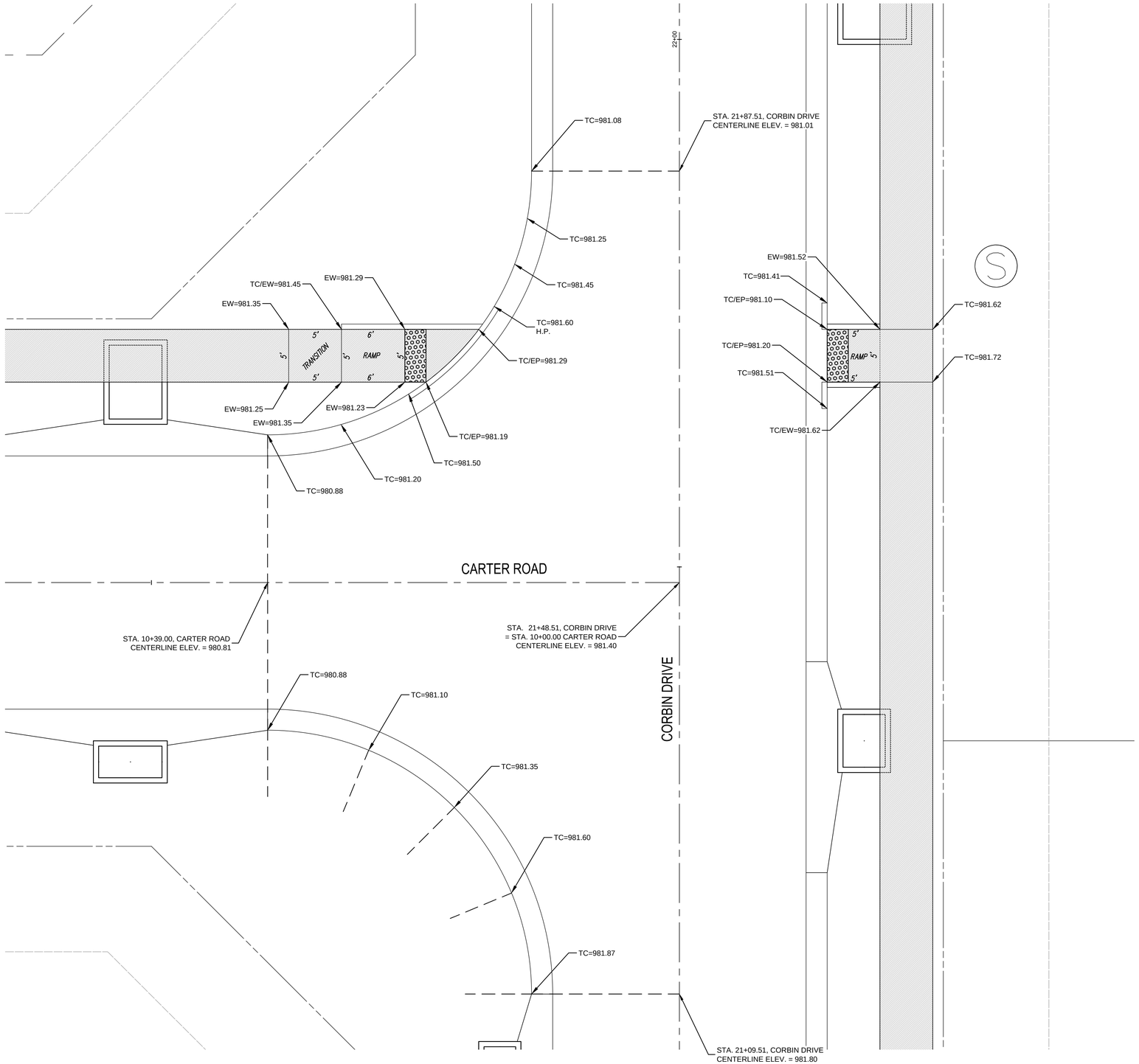

CORBIN DRIVE AND CARTER ROAD INTERSECTION DETAIL

SCALE: 1" = 5'

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Consult Inc engineers planners
110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010005 73 (MO.) / E-1736 (KS.)

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INTERSECTION AND ADA RAMP DETAILS
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COBEY CREEK FIRST PLAT
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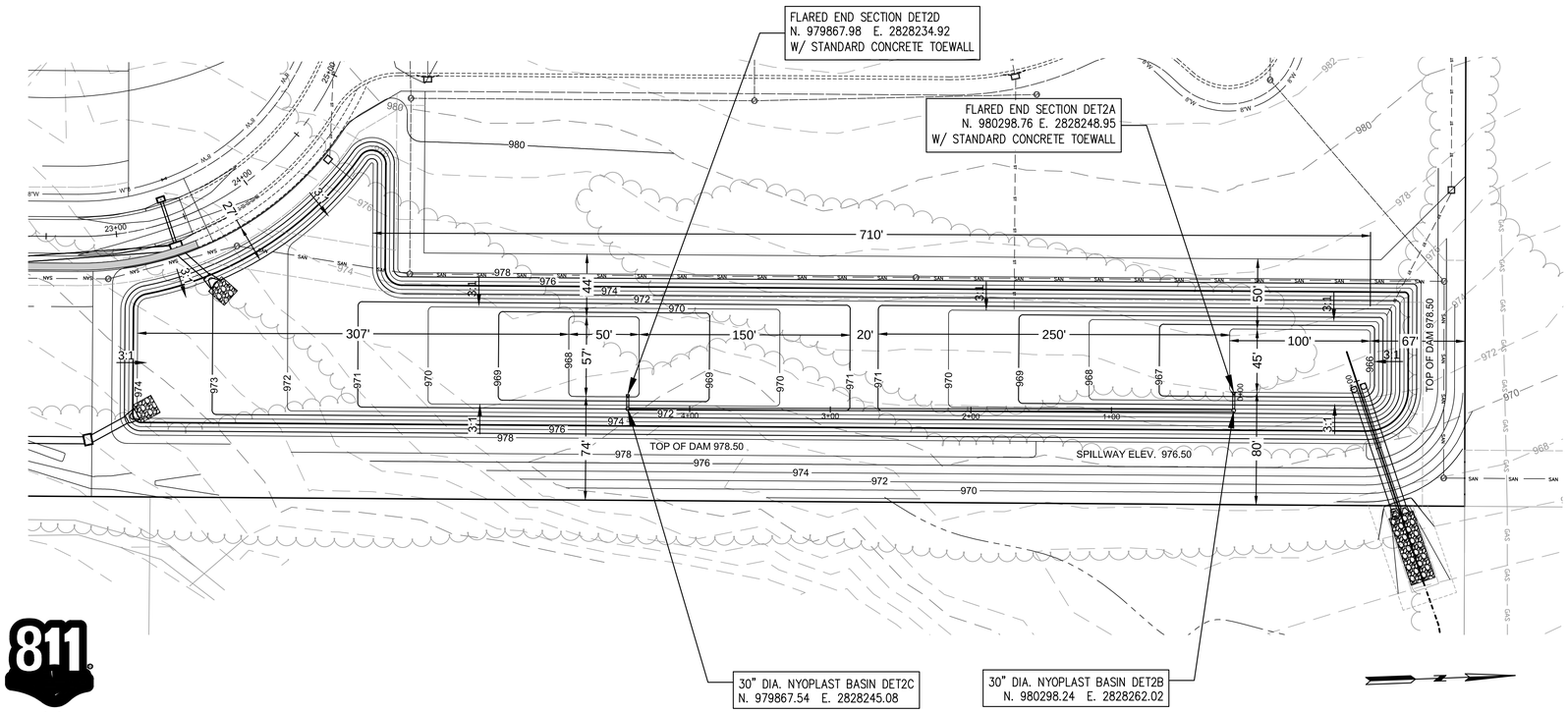
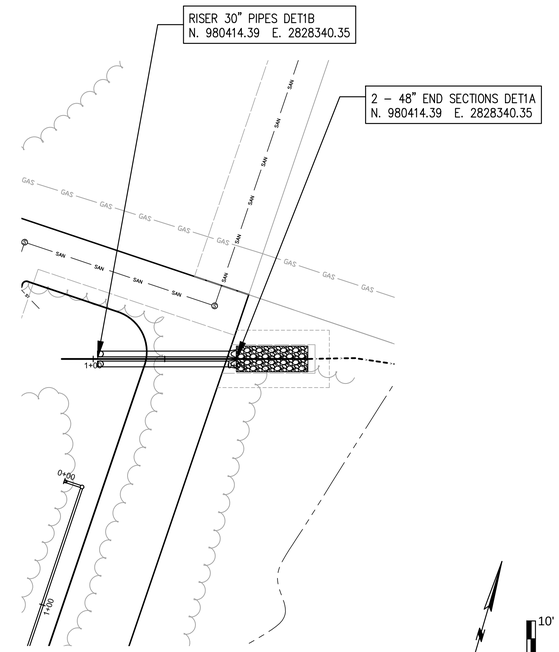
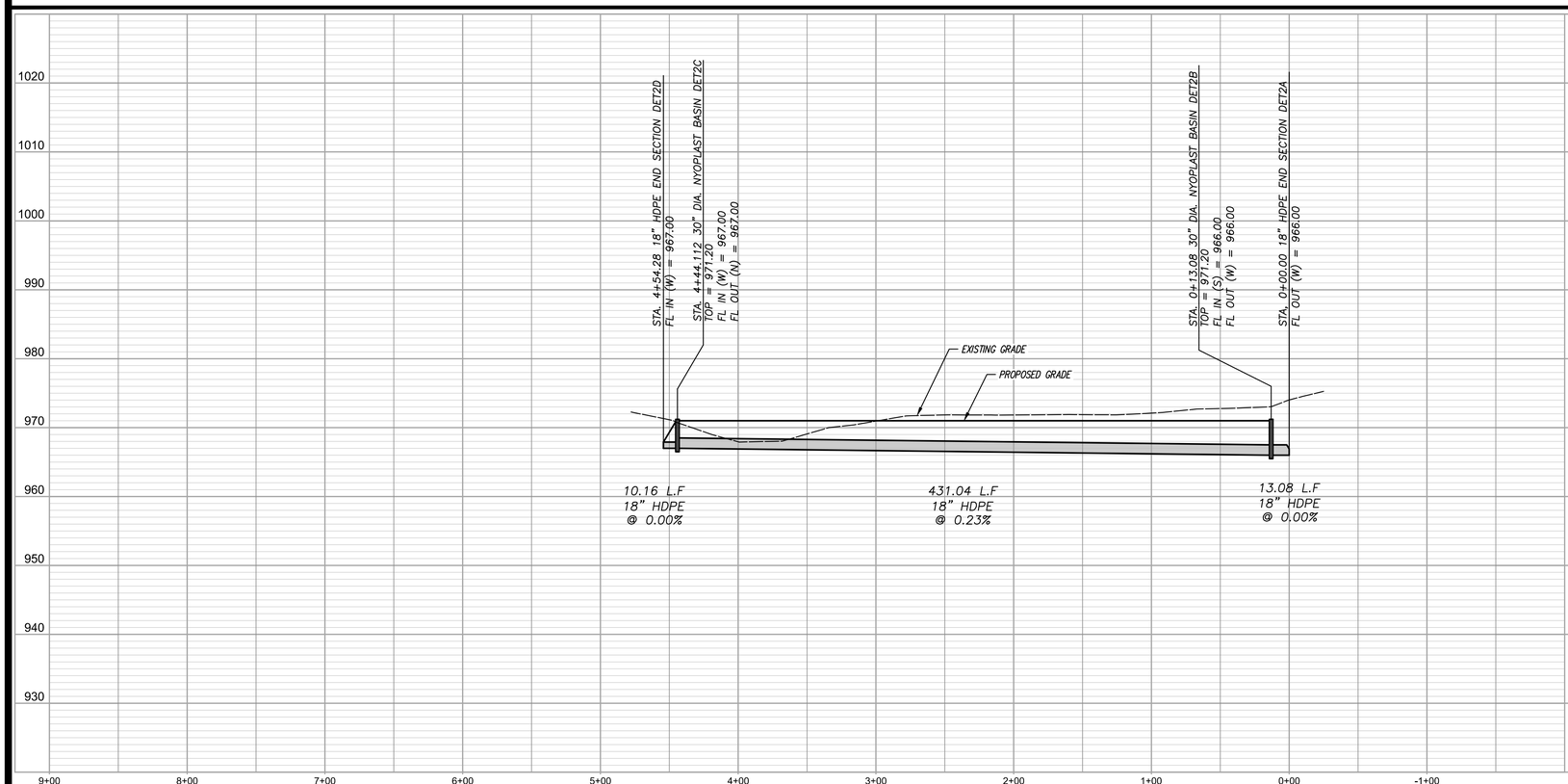


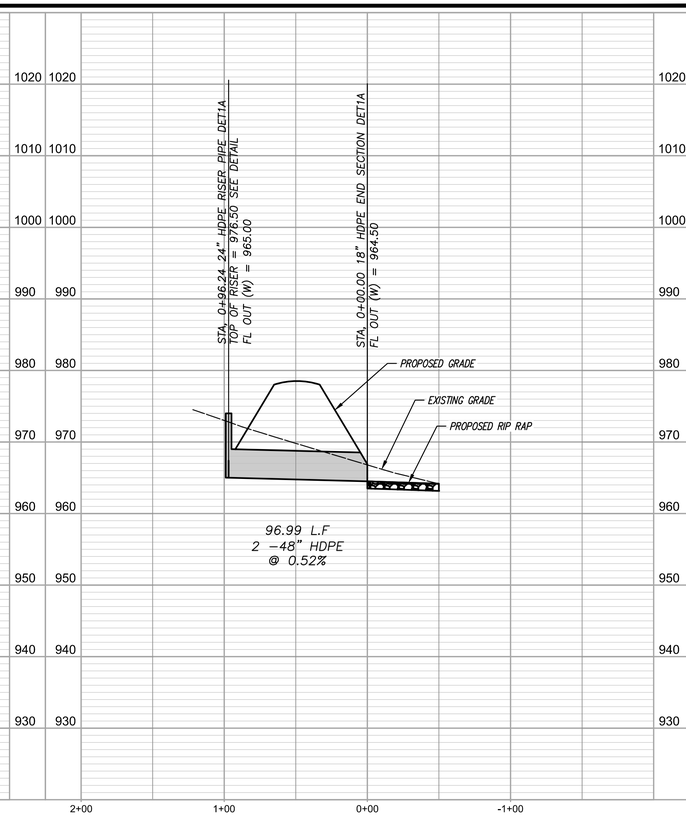


Know what's below.
Call before you dig.

1"=10'

SCALE: 1"=50'





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NUMBER E-26440

R. KEVIN STERRETT | MO E-26440
November 21, 2018

Consult Inc engineers planners
110 10 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010000573 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
DETENTION BASIN STORM SEWER
COBEY CREEK DRIVE
COBEY CREEK FIRST PLAT
PHASE I
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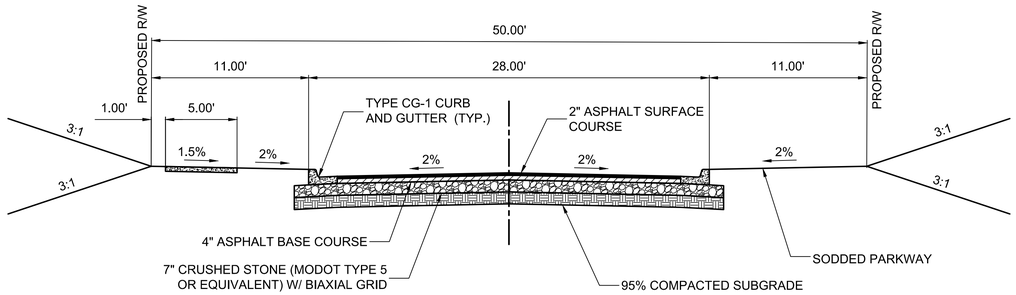
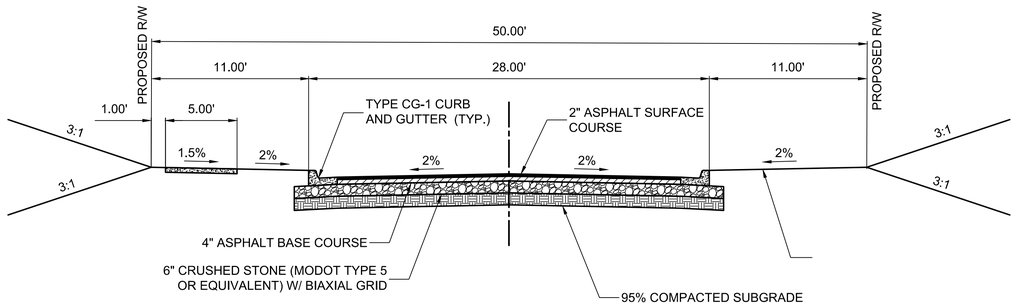
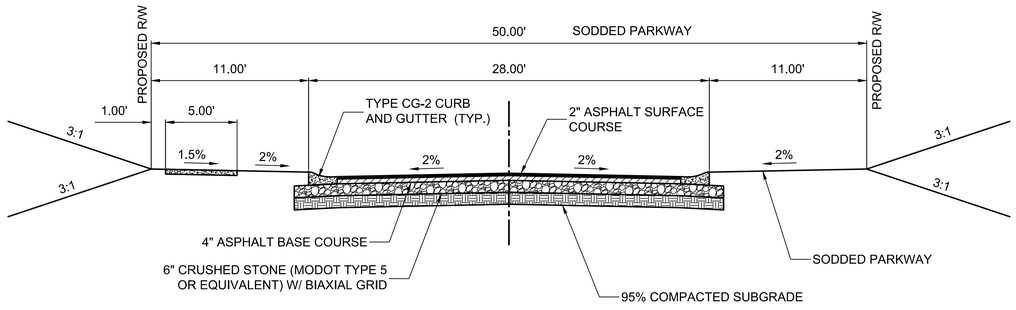


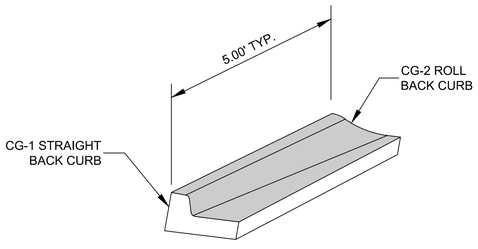
FULL DEPTH PAVEMENT SECTION
CG-1 CURB AND GUTTER
(COBEY CREEK DRIVE - FROM MO. HWY. 150 TO
ASPEN DRIVE & ALL OF ASPEN DRIVE ONLY)
NOT TO SCALE



FULL DEPTH PAVEMENT SECTION
CG-1 CURB AND GUTTER
(ALL REMAINING STREETS)
NOT TO SCALE



FULL DEPTH PAVEMENT SECTION
CG-2 CURB AND GUTTER
NOT TO SCALE



NOTE:
CURB TRANSITIONS SHALL BE MADE AFTER RADII
AT CURB RETURNS. CURB TRANSITIONS SHALL
ALSO BE MADE AT CURB INLETS WHEN POSSIBLE.

TYPICAL CG-1 TO CG-2
CURB TRANSITION
NOT TO SCALE

NOTE:

STREETS TO BE CONSTRUCTED WITH STRAIGHT BACK CURB (CG-1):

COBEY CREEK DRIVE, ASPEN DRIVE, TYLER ROAD.

STREETS TO BE CONSTRUCTED WITH ROLL BACK CURB (CG-2):

CORBIN DRIVE, RILEY WAY, CARTER ROAD.

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RICHARD KEVIN SARRAS
NUMBER
E-26440
REGISTERED PROFESSIONAL ENGINEER

R. KEVIN STERRETT | MO E-26440
November 21, 2018

Consult Inc engineers planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010000573 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
TYPICAL STREET SECTIONS

COBEY CREEK FIRST PLAT
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

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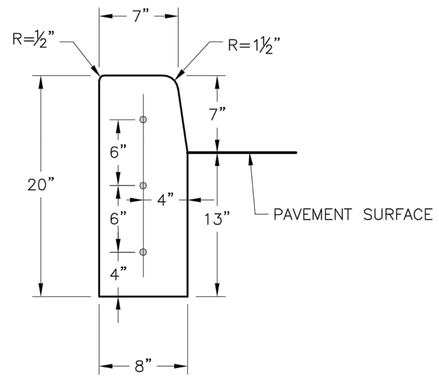
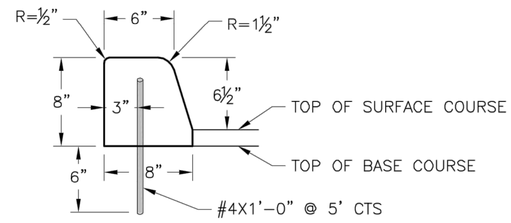
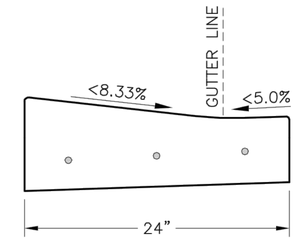


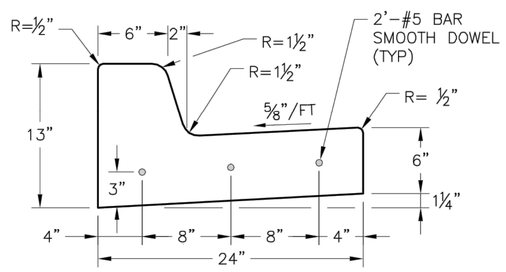
STRAIGHT CURB
(TYPE C–1)



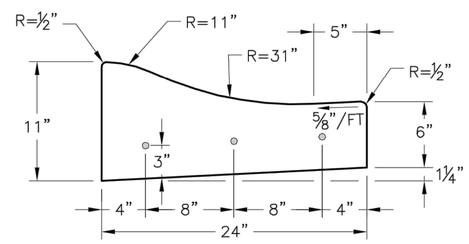
DOWELLED CURB
(TYPE DC)



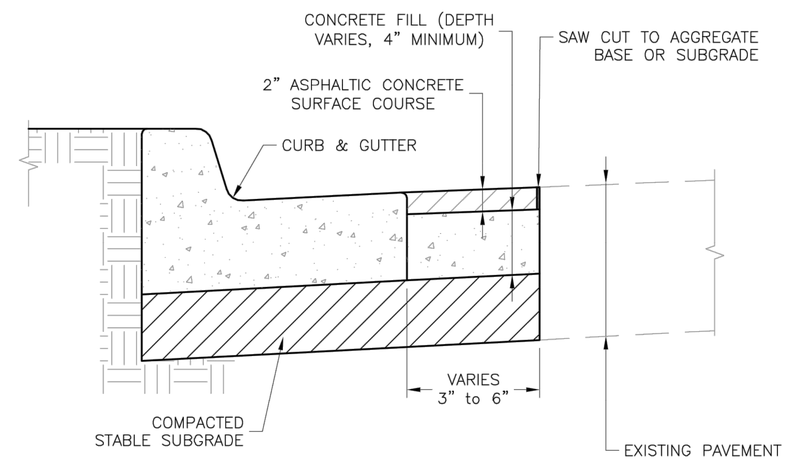
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



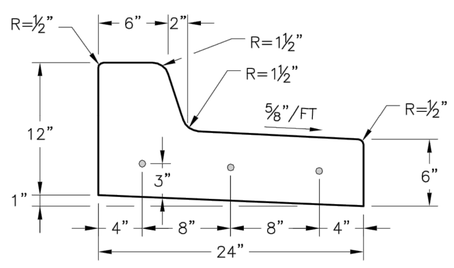
STRAIGHT BACK CURB &
GUTTER
(TYPE CG–1)



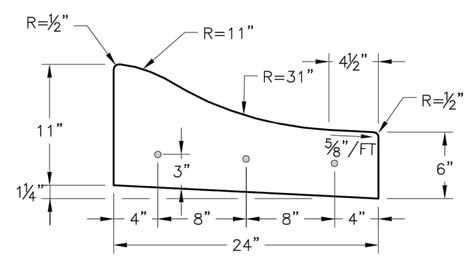
ROLL BACK CURB &
GUTTER
(TYPE CG–2)



CURB REPLACEMENT DETAIL



STRAIGHT BACK DRY CURB &
GUTTER
(TYPE CG–1 DRY)



ROLL BACK DRY CURB &
GUTTER
(TYPE CG–2 DRY)

GENERAL NOTES

1. ¾" ISOLATION JOINTS WITH 3 (2'–#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Sheet Name: CURB & GUTTER DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

GEN-4

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STREET AND CURB DETAILS

COBEY CREEK FIRST PLAT
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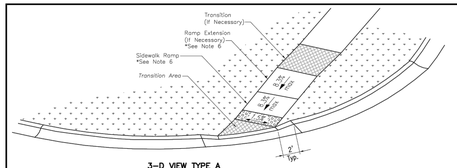
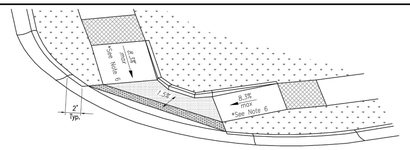


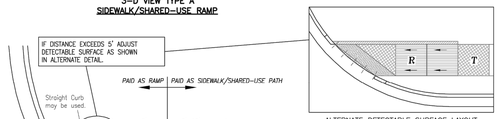
3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP

LEGEND

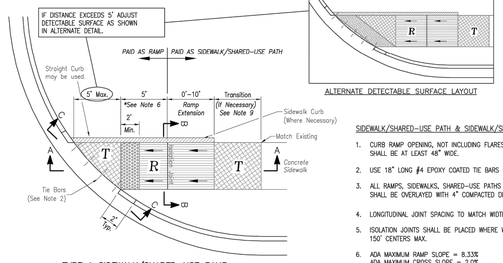
- R — SIDEWALK RAMP
- TS — TURNING SPACE
- DETECTABLE WARNING SURFACE
- T — TRANSITION



3-D VIEW TYPE B
SIDEWALK/SHARED-USE RAMP



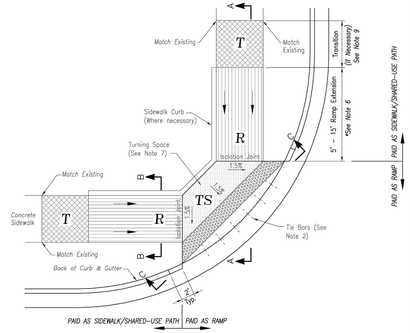
ALTERNATE DETECTABLE SURFACE LAYOUT



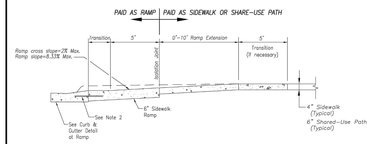
TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale

SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

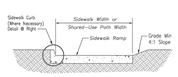
1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
   ADA MAXIMUM CROSS SLOPE = 2.0%
   *ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
7. TURNING SPACES SHALL BE 1.5%, ±0.5%, SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



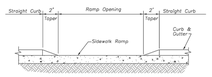
TYPE B SIDEWALK/SHARED-USE RAMP
Not to Scale



SECTION A–A

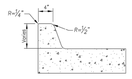


SECTION B–B

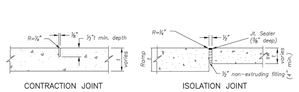


SECTION C–C

TYPE A & B SIDEWALK RAMP
Not to Scale



SIDEWALK CURB DETAIL
Not to Scale



CONTRACTION JOINT
ISOLATION JOINT

JOINT DETAILS
Not to Scale

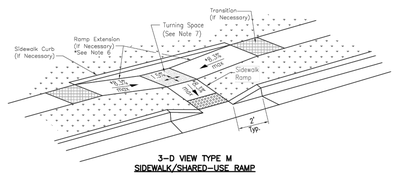
CURB & GUTTER DETAIL AT RAMP
Not to Scale

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

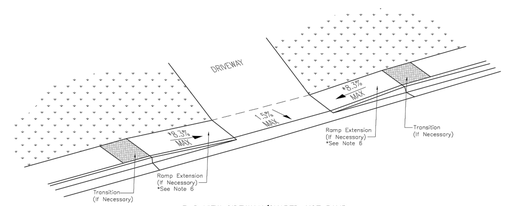
Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: ADA RAMP RETROFIT DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

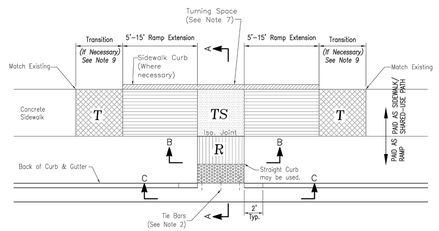
GEN-3A



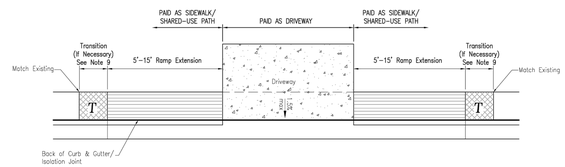
3-D VIEW TYPE M
SIDEWALK/SHARED-USE RAMP



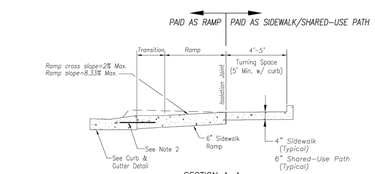
3-D VIEW SIDEWALK/SHARED-USE RAMP
AT DRIVEWAY



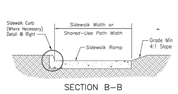
TYPE M SIDEWALK/SHARED-USE RAMP
Not to Scale



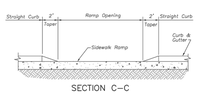
SIDEWALK/SHARED USE RAMP
AT DRIVEWAY WITH ADJOINING CURB



SECTION A–A



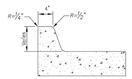
SECTION B–B



SECTION C–C

TYPE M SIDEWALK RAMP
Not to Scale

CURB & GUTTER DETAIL AT RAMP
Not to Scale



SIDEWALK CURB DETAIL
Not to Scale

LEGEND

- R — SIDEWALK RAMP
- TS — TURNING SPACE
- DETECTABLE WARNING SURFACE
- T — TRANSITION

SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
   ADA MAXIMUM CROSS SLOPE = 2.0%
   *ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

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

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

GEN-3B

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	SPW	RKS

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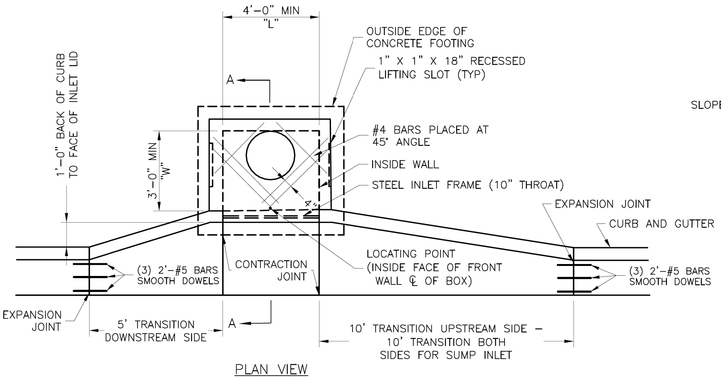
Consult Inc engineers planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010000573 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
SIDEWALK AND ADA RAMP DETAILS

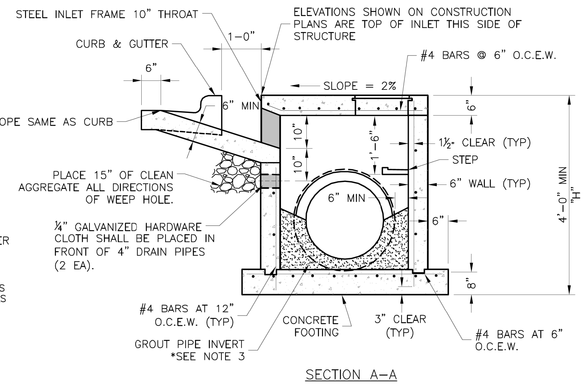
COBEY CREEK FIRST PLAT
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.: 16–059 Base Phase I
DRAWING NO.: 16–059 Phase I Street Plans
DATE: November 21 2018
JOB NO.: 16–059

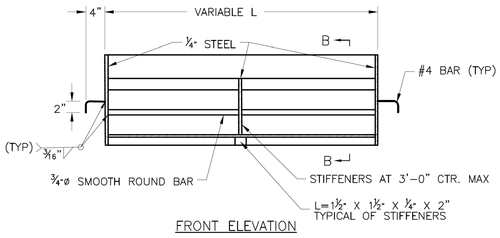
11/20/2018
16.059-StormDetail-01.dgn



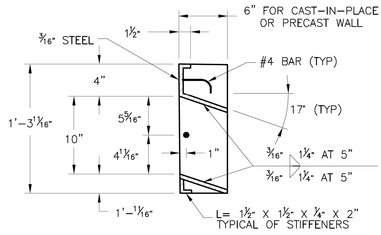
PLAN VIEW



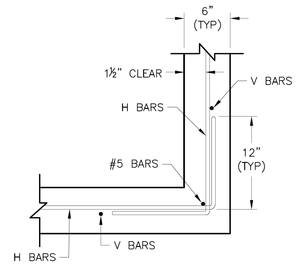
SECTION A–A



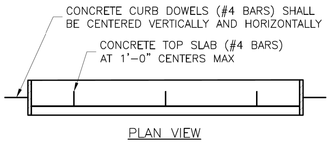
FRONT ELEVATION



SECTION B–B



WALL CORNER DETAIL



PLAN VIEW

STEEL FRAME NOTES:
1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM–PRIME #37H–78 PRIMER (GRAY) OR EQUAL.

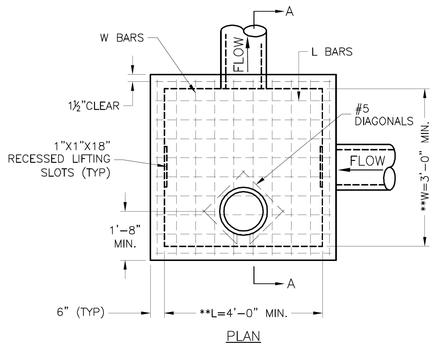
GENERAL NOTES:
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
5. STEPS SHALL BE SPACED AT 1'–4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
6. BEVEL ALL EXPOSED EDGES WITH ¾"CHAMFER OR ½" TOOLED EDGE.
7. ON–GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON–SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON–SHRINKABLE GROUT
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

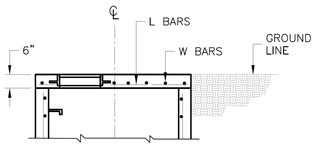
Project: STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CURB INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-1



PLAN

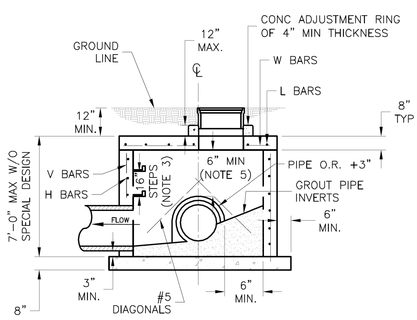


SLAB TOP ALTERNATE FOR JUNCTION BOX (SHALLOW)

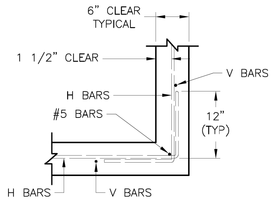
** INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

REINFORCING

BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6



SECTION A–A



WALL CORNER DETAIL

GENERAL NOTES:
1. LOCATE RING AND COVER ON BLANK WALL.
2. USE ¾" CHAMFER STRIP OR ½" R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
5. THE MINIMUM REINFORCING SHALL BE 1 H–BAR OVER A CAST–IN–PLACE PIPE AND 2 H–BARS OVER A PRECAST BOXOUT.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON–SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: JUNCTION BOX DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-3

STORM SEWER DETAILS

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Hg Consult Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

STATE OF MISSOURI R. KEVIN STERRETT NUMBER E-26440 11/21/18
R. KEVIN STERRETT, MO E-26440

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	RAM	RKS

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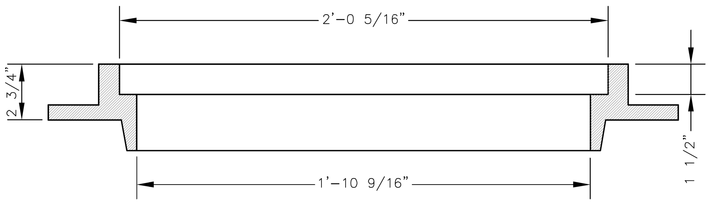
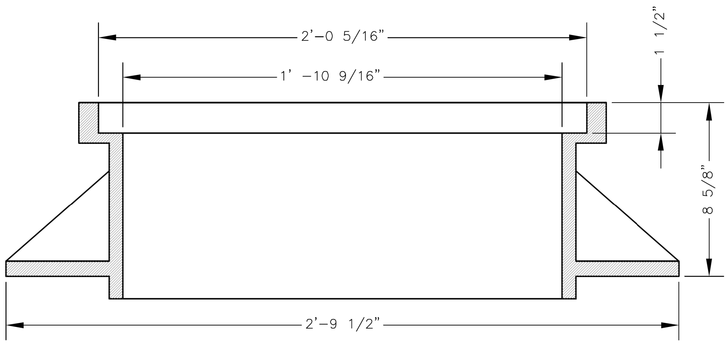
SHEET 32 OF 33
DATE November 21, 2018
PROJECT NO. 16.059.01
DRAWN BY XXX
CHECKED BY XXX
SHEET NO.

11/20/2018
16.059-StormDetail-02.dgn



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB



STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

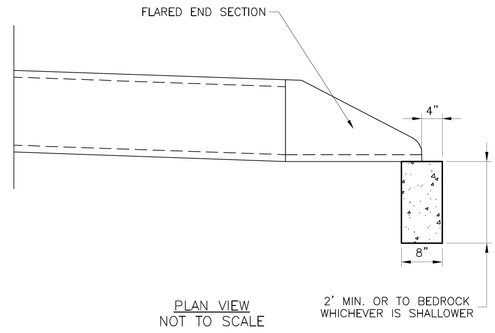
*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

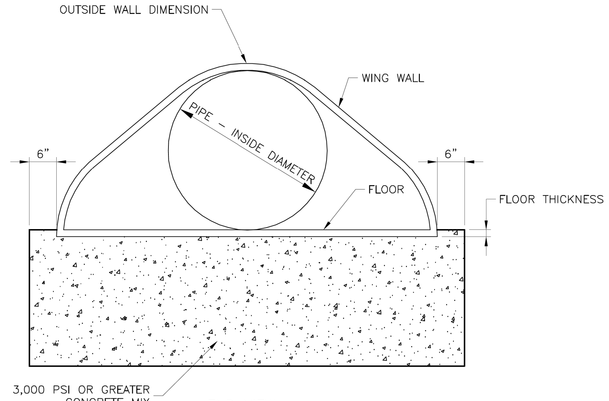
STORM MANHOLE FRAME DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-7



PLAN VIEW
NOT TO SCALE



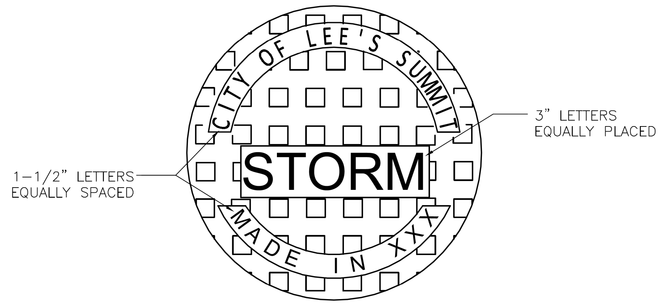
END VIEW
NOT TO SCALE

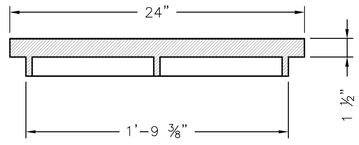
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

FLARED END SECTION SUPPORT DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-5





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

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

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE COVER DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-6

33 SHEET 33

STORM SEWER DETAILS

COBEY CREEK

CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Hg Consult Inc engineers planners
11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE No. E2010005873

STATE OF MISSOURI
R. KEVIN STERRETT
NUMBER E-26440
PROFESSIONAL ENGINEER
11/21/18
R. KEVIN STERRETT, MO E-26440

DATE	REVISION	NO.	BY	CK/APP
11/21/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	1	RAM	RKS

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DRAWN BY XXX
CHECKED BY XXX
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PROJECT NO. 16.059.01