

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



☒ 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# 2017000367

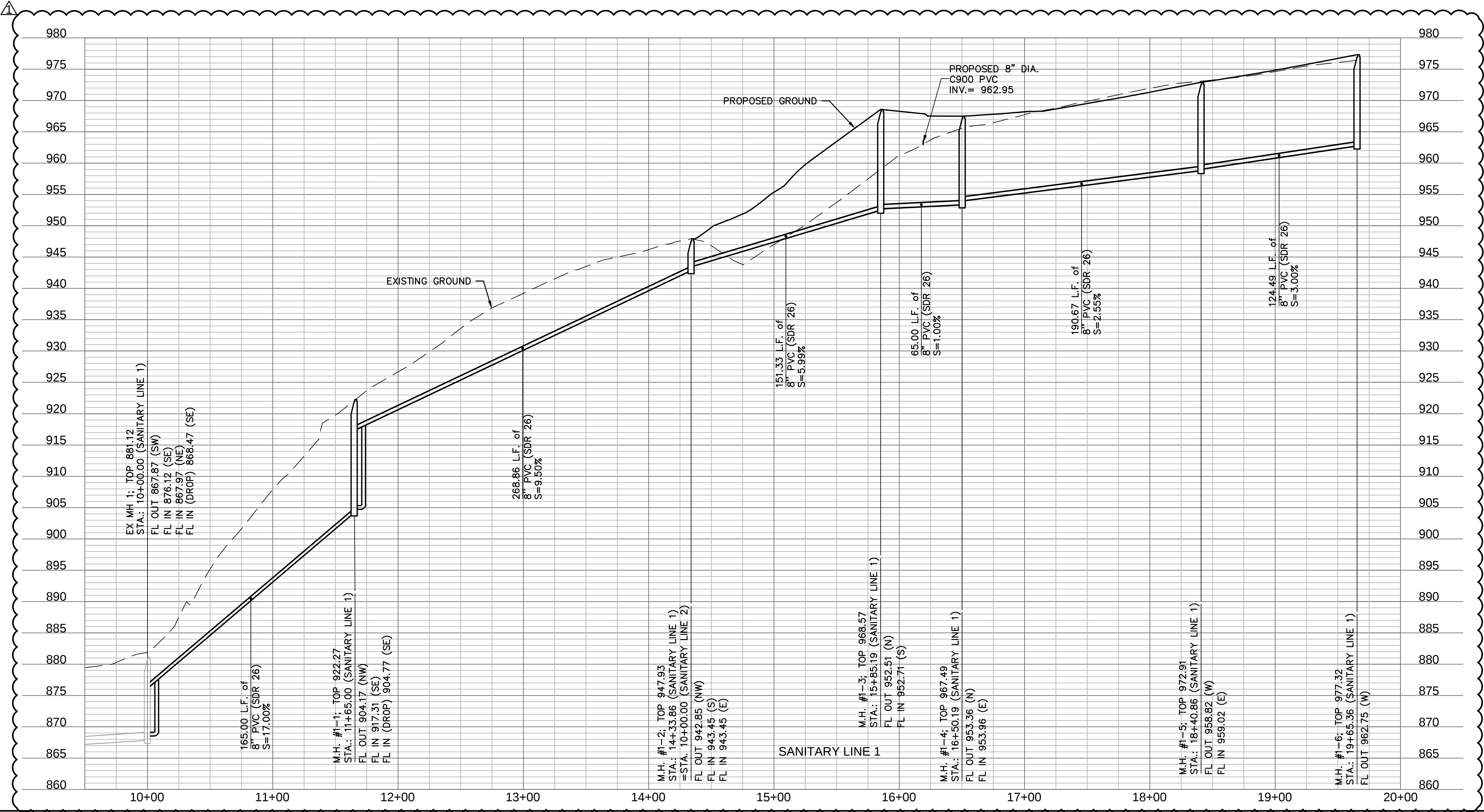
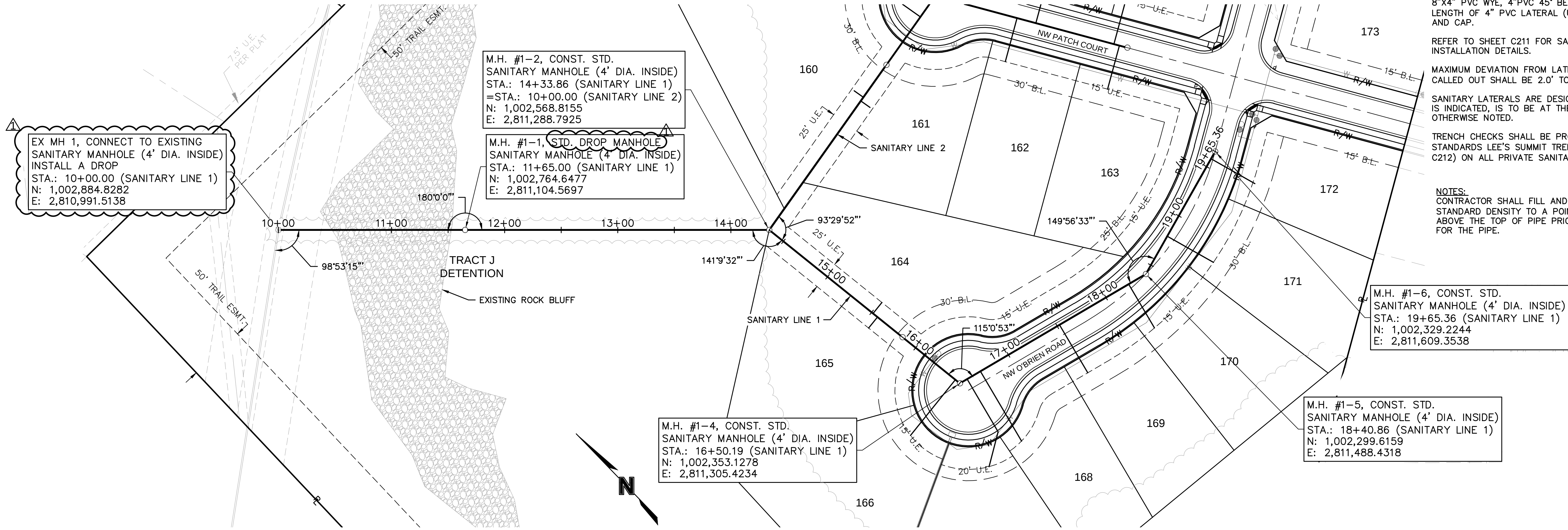
7/10/20
DATE

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/22/2021**

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

SHEET
C201

MO Certificate of Authority # 001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816 361 1177
www.olsson.com



NOTES:
ALL SERVICE LINE CONNECTIONS SHALL BE MADE WITH AN 8"x4" PVC WYE, 4"PVC 45° BEND, AND THE APPROPRIATE LENGTH OF 4" PVC LATERAL (UNLESS OTHERWISE SHOWN) AND CAP.

REFER TO SHEET C211 FOR SANITARY DESIGN AND LATERAL INSTALLATION DETAILS.

MAXIMUM DEVIATION FROM LATERAL STATION LOCATIONS AS CALLED OUT SHALL BE 2.0' TO AVOID PIPE JOINT.

SANITARY LATERALS ARE DESIGNED @ 2.00% SLOPE. IF RISE IS INDICATED, IS TO BE AT THE SANITARY MAIN, UNLESS OTHERWISE NOTED.

TRENCH CHECKS SHALL BE PROVIDED IN ACCORDANCE WITH STANDARDS LEE'S SUMMIT TRENCH CHECK DETAIL (SHEET C212) ON ALL PRIVATE SANITARY SEWER SERVICE LATERALS.

NOTES:
CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 36" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.

RELEASE FOR
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/22/2021

olsson

NO. 00000000 of Authority #001892
300 E. BIRCH STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM

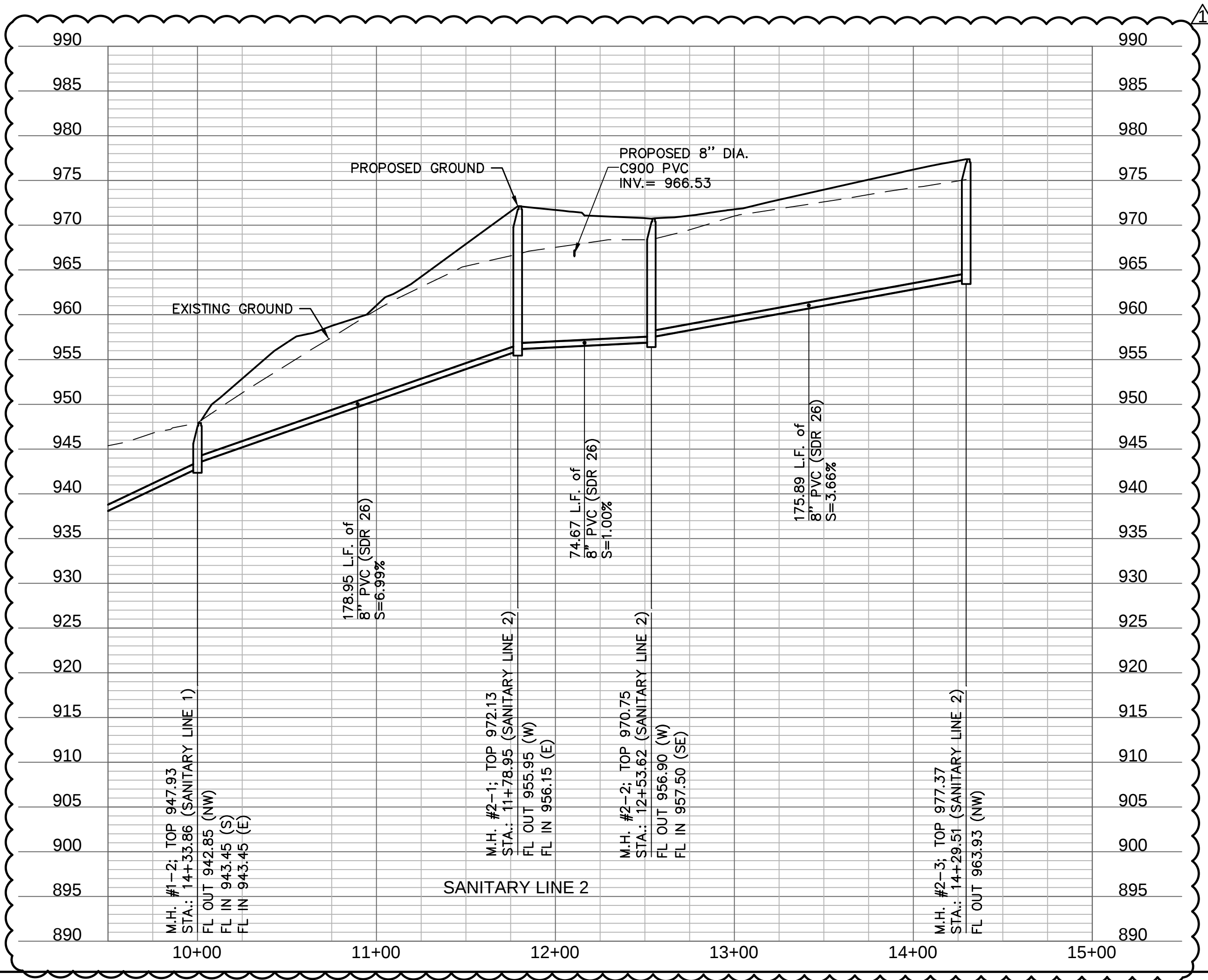
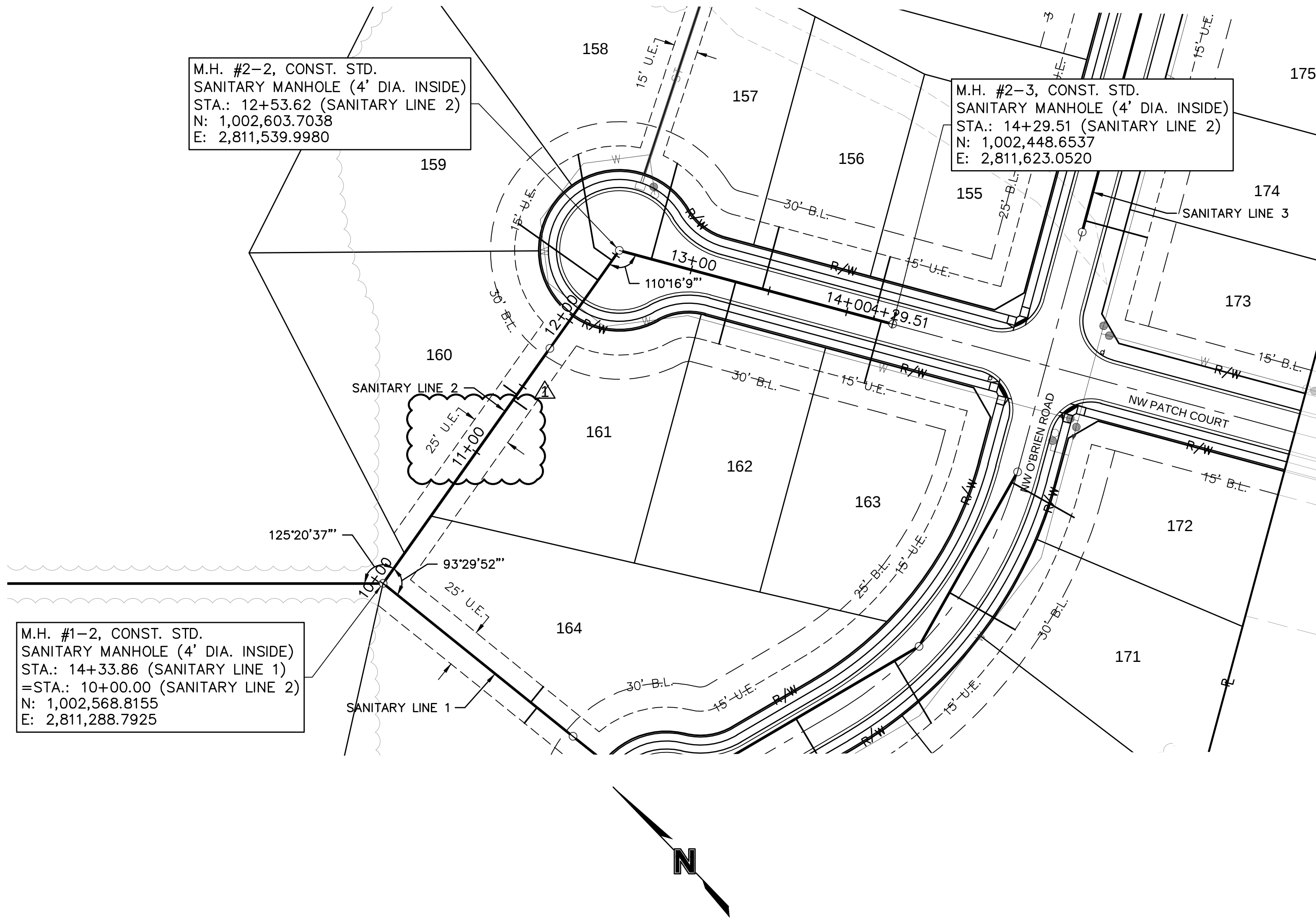
STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
7/10/20

BY
NO. REV. DATE
1 07/10/2020
REVISIONS DESCRIPTION
REVISED PER CITY COMMENTS

SANITARY SEWER PLAN & PROFILE
SANITARY SEWER PLANS
WOODSIDE RIDGE
SECOND PLAT
LEE'S SUMMIT, MO
2020

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

SHEET
C207



RELEASE FOR
CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/22/2021

0' 25' 50' 100'
SCALE IN FEET

0' 5' 10' 20'

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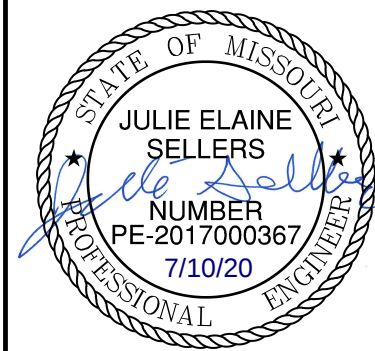
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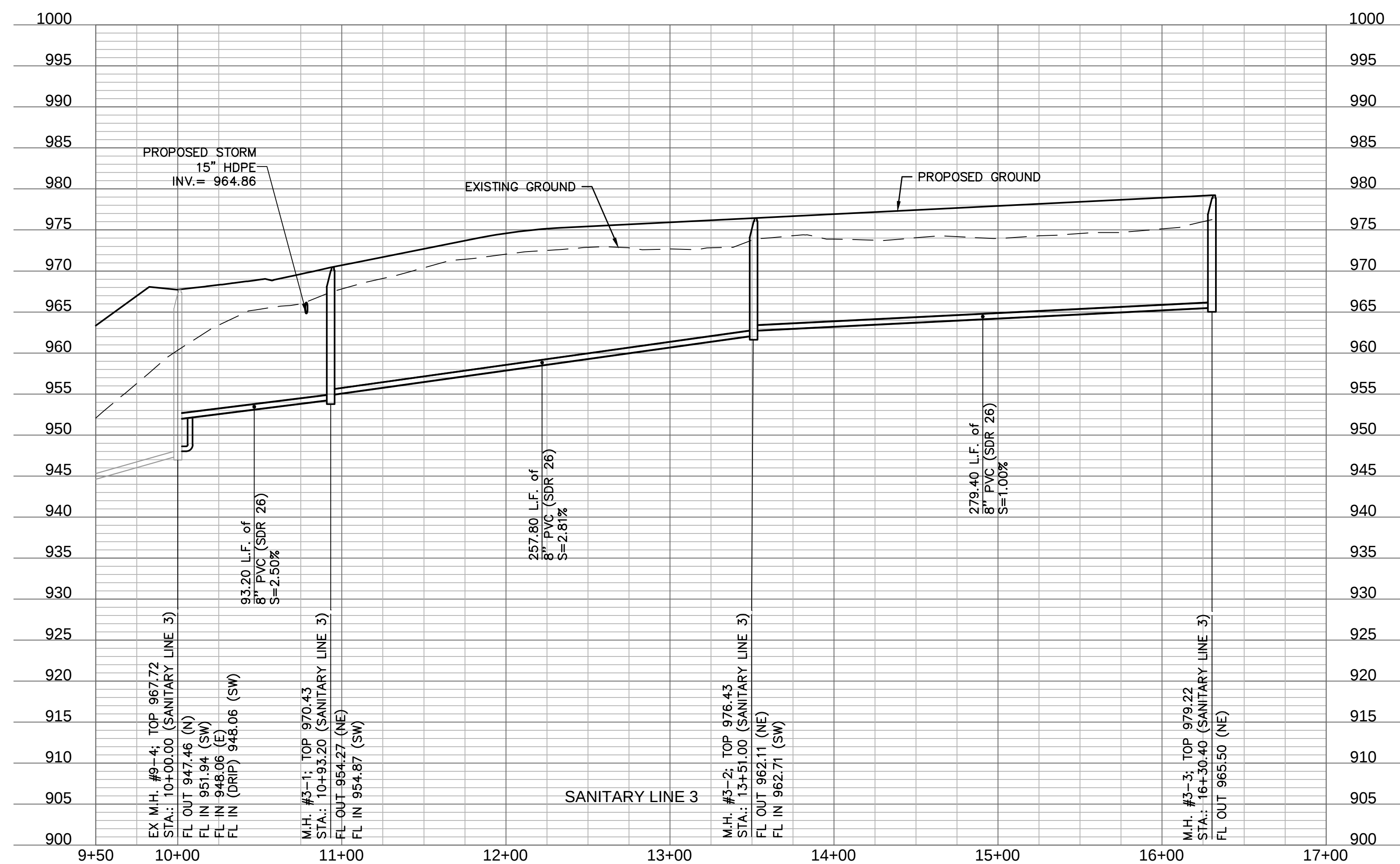
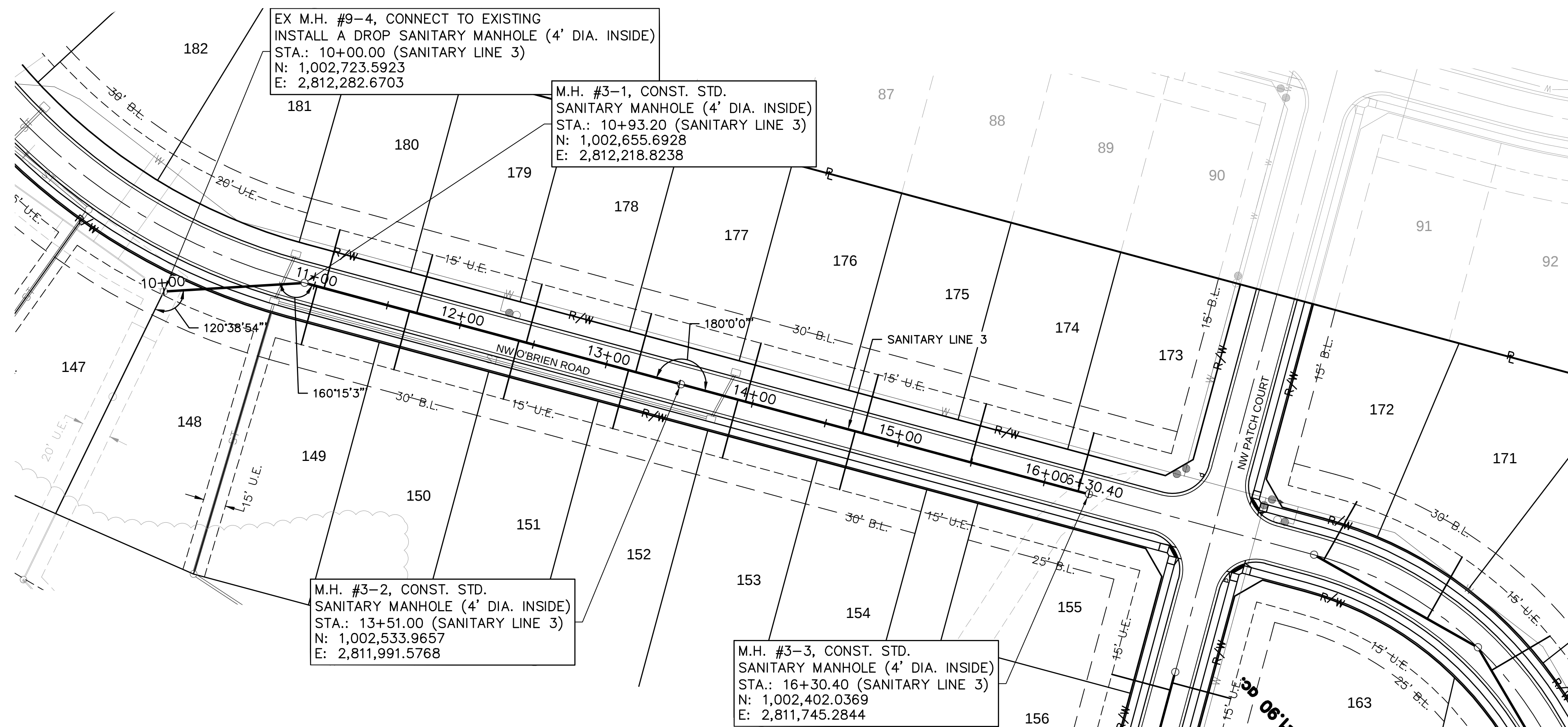
SANITARY SEWER PLAN & PROFILE SANITARY SEWER PLANS		2020
WOODSIDE RIDGE SECOND PLAT		
LEE'S SUMMIT, MO		

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SHEET
C208

olsson

NO. 00110101 of Authority # 001892
303 E. BIRCH STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM



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FOR THE PIPE.

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
7/10/20
PROFESSIONAL ENGINEER

[illegible]

SANITARY SEWER PLAN & PROFILE

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

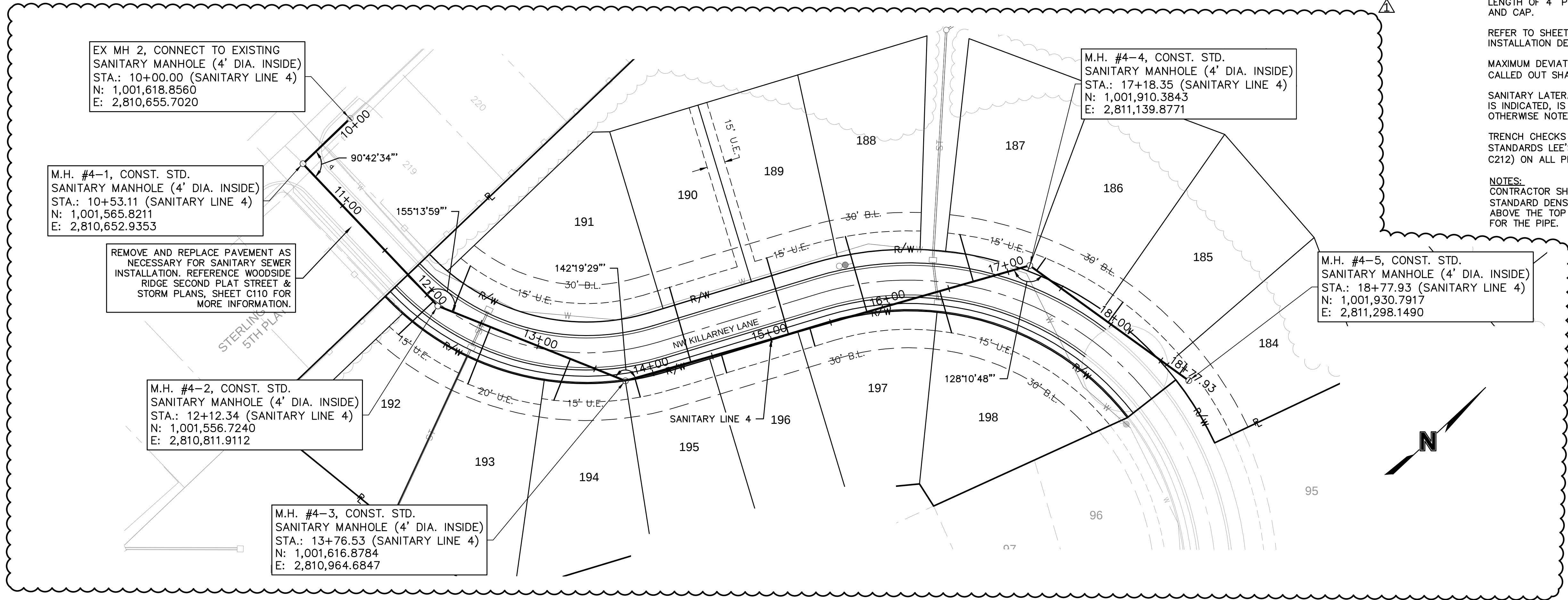
2020

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SHEET
C209

**RELEASE FOR
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**





Sanitary Sewer Laterals						
Lot Number	Lateral Station	Lateral Length	Riser	Flowline at Main	Flowline at End of Lateral	Minimum Servicable Floor Elevation
		(ft)	(ft)	(ft)	(ft)	(ft)
150	11+65.14	40.00	4.0	956.9	962.6	965.41
151	12+40.14	40.00	4.0	959.0	964.7	967.52
152	13+15.14	40.00	2.0	961.1	964.9	967.66
153	13+90.14	40.00	1.0	963.1	965.9	968.68
154	14+70.41	40.00	1.0	963.9	966.7	969.48
155	14+17.17	40.00	1.0	963.5	966.3	969.07
156	13+45.75	40.00	1.0	960.9	963.7	966.46
157	12+73.79	61.61	0.0	958.2	960.5	963.28
158	12+45.92	72.52	0.0	956.8	959.3	962.08
159	12+30.97	60.93	1.0	956.7	959.9	962.68
160	11+43.81	10.00	5.0	953.5	959.6	962.41
161	11+39.81	10.00	6.0	953.2	960.3	963.11
162	13+28.57	40.00	1.0	960.3	963.0	965.83
163	14+22.17	40.00	1.0	963.7	966.5	969.26
164	15+51.64	10.00	5.0	950.5	956.6	959.41
165	15+56.64	10.00	4.0	950.8	955.9	958.73
166	16+45.07	63.29	0.0	953.3	955.6	958.38
167	16+54.28	85.90	0.0	954.1	956.8	959.49
168	16+71.28	71.64	0.0	954.5	956.9	959.74
169	17+52.34	49.23	1.0	956.6	959.5	962.34
170	18+23.26	44.95	1.0	958.4	961.3	964.06
171	18+79.32	46.90	2.0	960.2	964.1	966.88
172	19+57.99	44.54	2.0	962.5	966.4	969.20
173	16+23.06	40.00	1.0	965.4	968.2	971.01
174	15+49.40	40.00	1.0	964.7	967.5	970.27
175	14+75.40	40.00	1.0	964.0	966.7	969.53
176	13+95.13	40.00	1.0	963.2	965.9	968.73
177	13+20.13	40.00	2.0	961.2	965.0	967.80
178	12+45.13	40.00	4.0	959.1	964.9	967.66
179	11+70.14	40.00	4.0	957.0	962.7	965.55
180	11+06.41	40.00	3.0	955.2	960.0	962.78
184	18+68.67	10.12	1.0	951.5	953.7	956.52
185	17+97.13	20.30	1.0	949.4	951.8	954.58
186	17+25.29	12.48	2.0	947.2	950.4	953.24
187	16+70.70	39.79	1.0	945.9	948.7	951.53
188	15+80.69	63.73	1.0	945.0	948.3	951.10
189	15+14.41	64.58	0.0	944.4	946.7	949.48
190	14+31.93	63.28	0.0	943.6	945.8	948.63
191	12+24.92	40.14	0.0	941.2	943.0	945.80
192	12+07.26	39.13	0.0	940.9	942.6	945.44
193	12+58.60	49.77	0.0	941.5	943.5	946.26
194	13+28.43	36.19	0.0	942.0	943.7	946.55
195	13+84.63	16.04	0.0	943.1	944.4	947.21
196	14+57.56	16.33	0.0	943.8	945.1	947.94
197	15+32.55	15.14	1.0	944.6	946.9	949.65
198	16+42.32	35.21	3.0	945.7	950.3	953.11

Sanitary Sewer Design Information											
Upstream Manhole	Downstream Pipe Slope	Downstream Pipe Diameter	Proposed Cumulative Area	Future Cumulative Area	Peak Base Flow 50-Year Design	Peak Infiltration Flow 50-Year Design	Peak Inflow 50-Year Design	Total Peak Flow	Downstream Pipe Mannings N	Downstream Pipe Capacity	Downstream Pipe Full Flow Velocity
	(%)	(in)	(Ac.)	(Ac.)	(gpd)	(gpd)	(cfs)	(cfs)		(cfs)	(fps)
EX MH 7776	1.33%	15	346.72	0.00	520080.00	173360.000	4.251	5.324	0.014	6.92	5.64
MH 1-1	17.00%	8	7.72	0.00	11580.00	3860.000	0.228	0.252	0.014	4.63	13.25
MH 1-2	9.50%	8	7.72	0.00	11580.00	3860.000	0.228	0.252	0.014	3.46	9.91
MH 1-3	5.99%	8	3.97	0.00	5955.00	1985.000	0.124	0.136	0.014	2.75	7.87
MH 1-4	1.00%	8	2.80	0.00	4200.00	1400.000	0.089	0.098	0.014	1.12	3.21
MH 1-5	2.55%	8	2.31	0.00	3465.00	1155.000	0.075	0.082	0.014	1.79	5.13
MH 1-6	3.00%	8	0.76	0.00	1140.00	380.000	0.026	0.028	0.014	1.94	5.57
MH 1-2	9.50%	8	7.72	0.00	11580.00	3860.000	0.228	0.252	0.014	3.46	9.91
MH 2-1	6.99%	8	3.75	0.00	5625.00	1875.000	0.117	0.129	0.014	2.97	8.50
MH 2-2	1.00%	8	2.85	0.00	4275.00	1425.000	0.091	0.100	0.014	1.12	3.21
MH 2-3	3.66%	8	1.90	0.00	2850.00	950.000	0.000	0.000	0.000	0.00	0.00
EX MH 3-3	5.68%	8	9.58	0.00	14370.00	4790.000	0.277	0.307	0.014	2.67	7.66
MH 3-1	2.50%	8	4.45	0.00	6675.00	2225.000	0.137	0.151	0.014	1.77	5.08
MH 3-2	2.81%	8	4.45	0.00	6675.00	2225.000	0.137	0.151	0.014	1.88	5.39
MH 3-3	1.00%	8	1.92	0.00	2880.00	960.000	0.063	0.069	0.014	1.12	3.21
EX MH 4	5.80%	8	5.44	0.00	8160.00	2720.000	0.165	0.182	0.014	2.70	7.74
MH 4-1	0.80%	8	5.44	0.00	8160.00	2720.000	0.165	0.182	0.014	1.00	2.88
MH 4-2	0.80%	8	5.44	0.00	8160.00	2720.000	0.165	0.182	0.014	1.00	2.88
MH 4-3	0.80%	8	5.12	0.00	7680.00	2560.000	0.156	0.172	0.014	1.00	2.88
MH 4-4	1.00%	8	3.92	0.00	5880.00	1960.000	0.122	0.134	0.014	1.12	3.21
MH 4-5	3.00%	8	1.07	0.00	1605.00	535.000	0.036	0.039	0.014	1.94	5.57

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

02/22/2021

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

SHEET
C211

SANITARY SEWER TABLES
SANITARY SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

REVISIONS DESCRIPTION

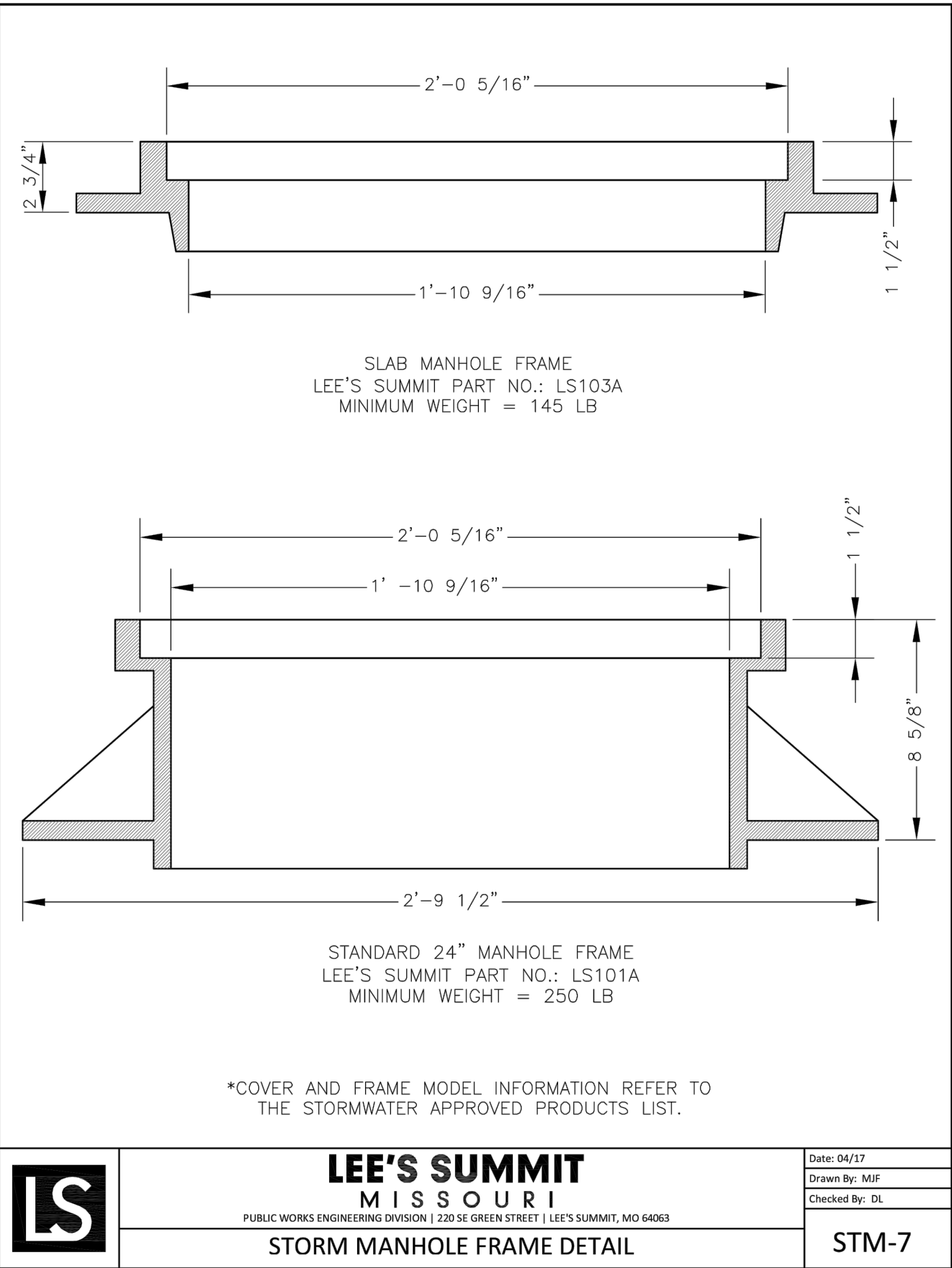
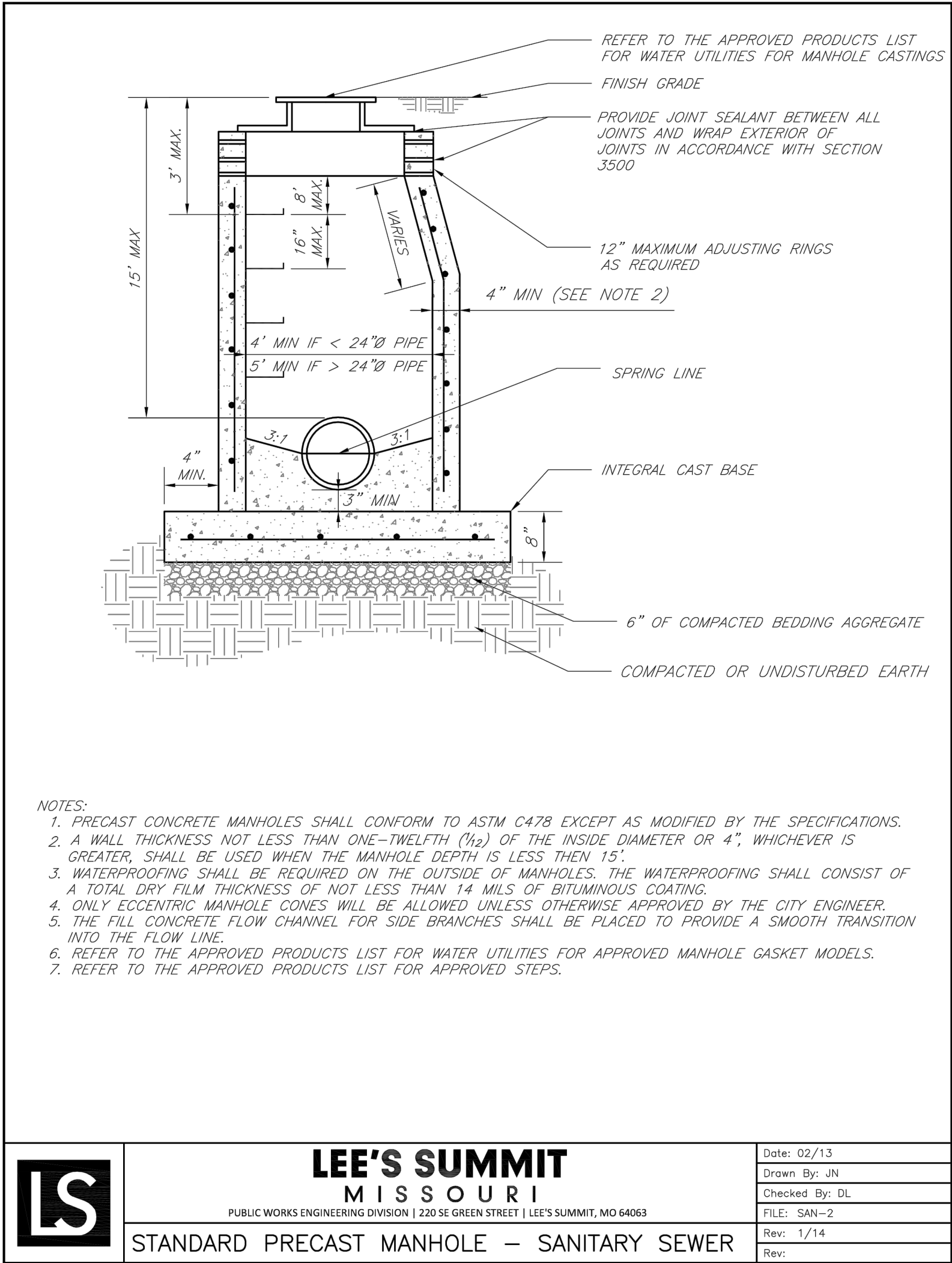
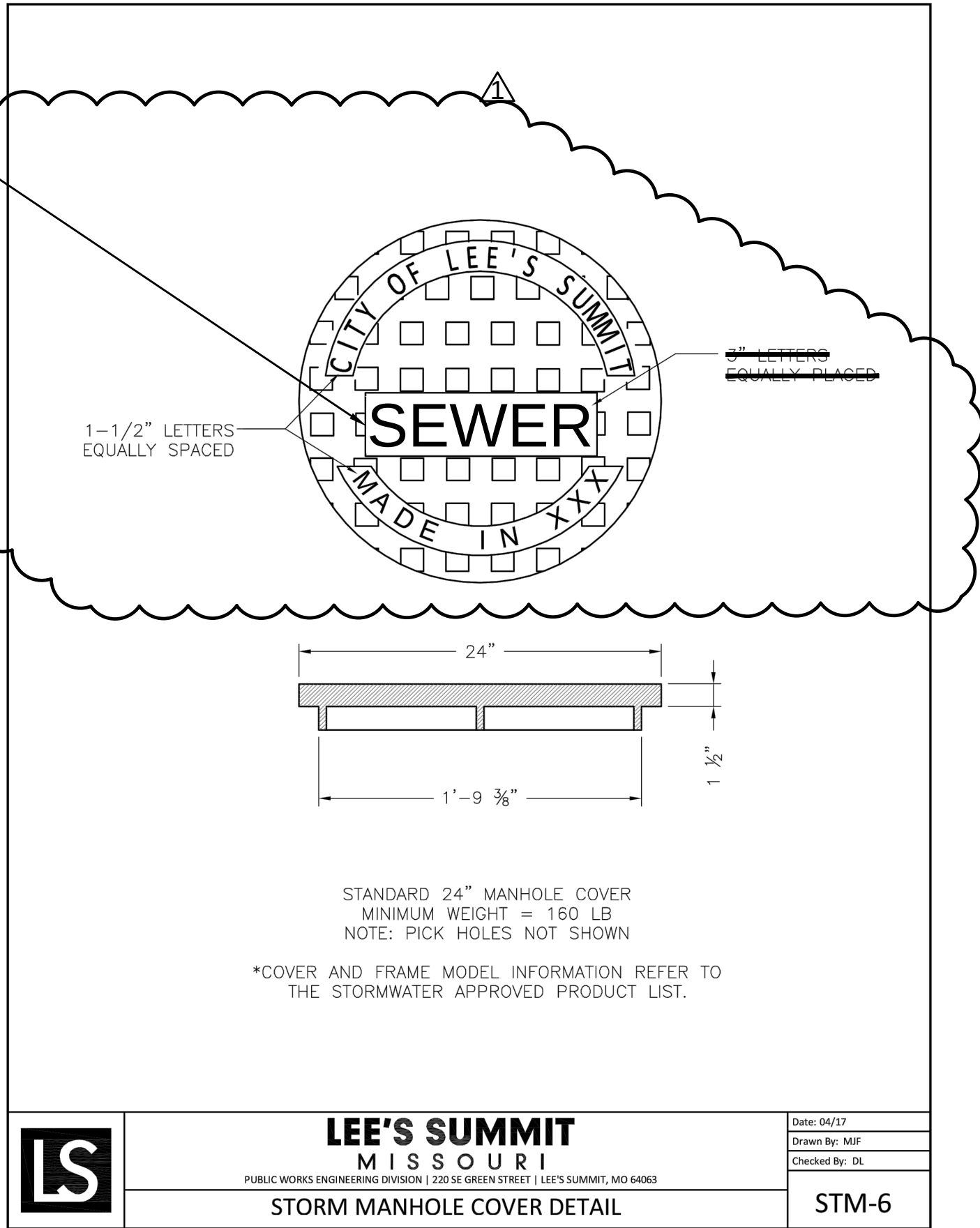
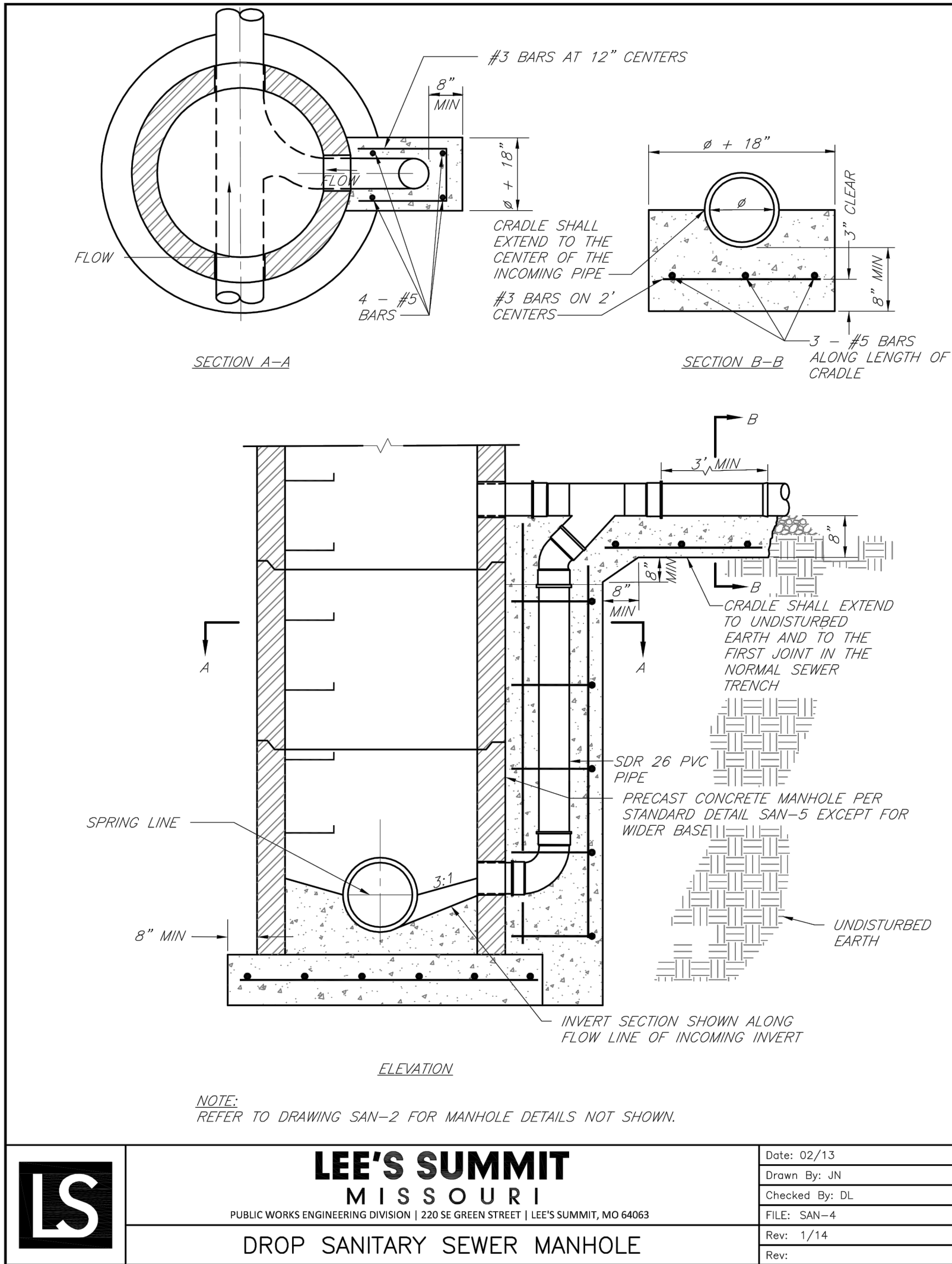
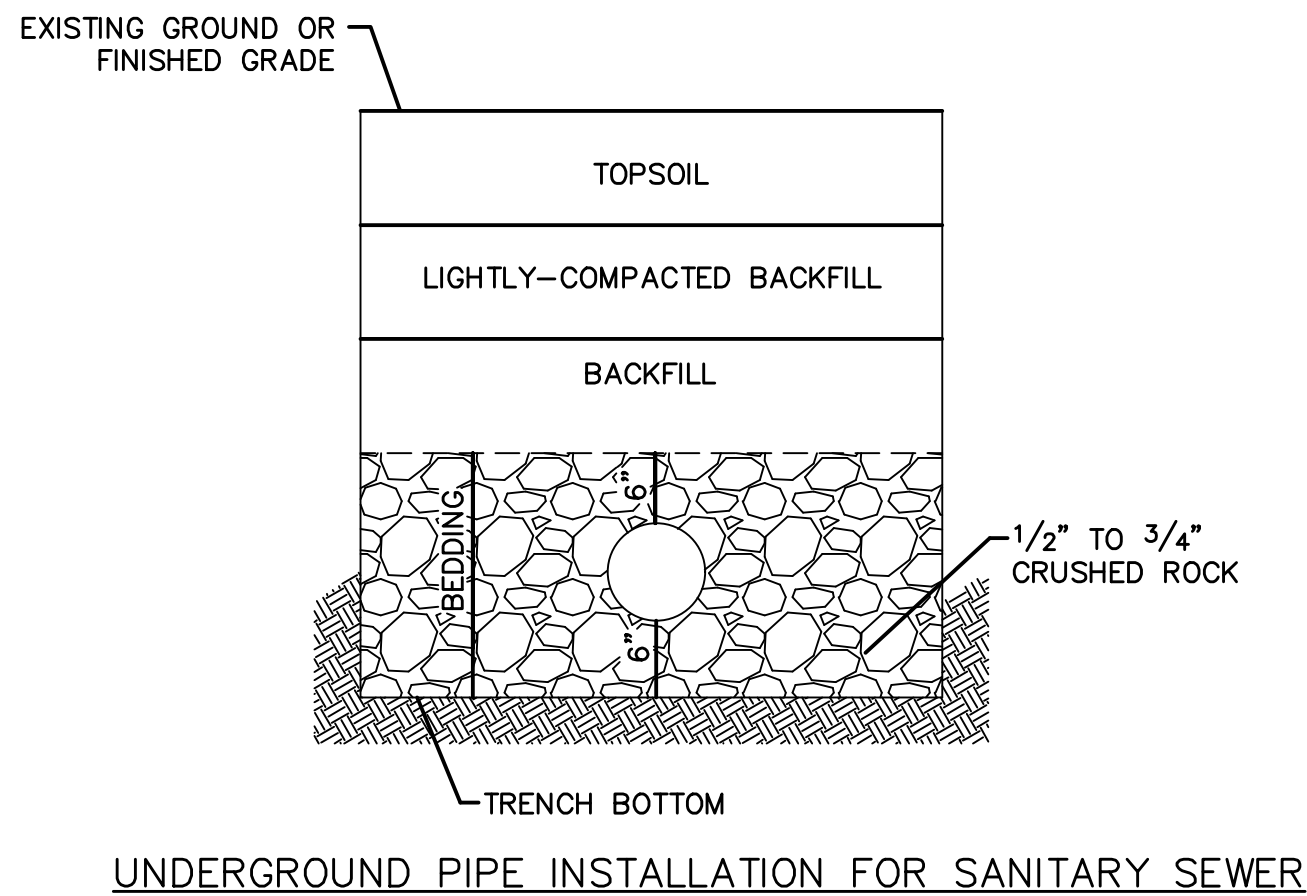
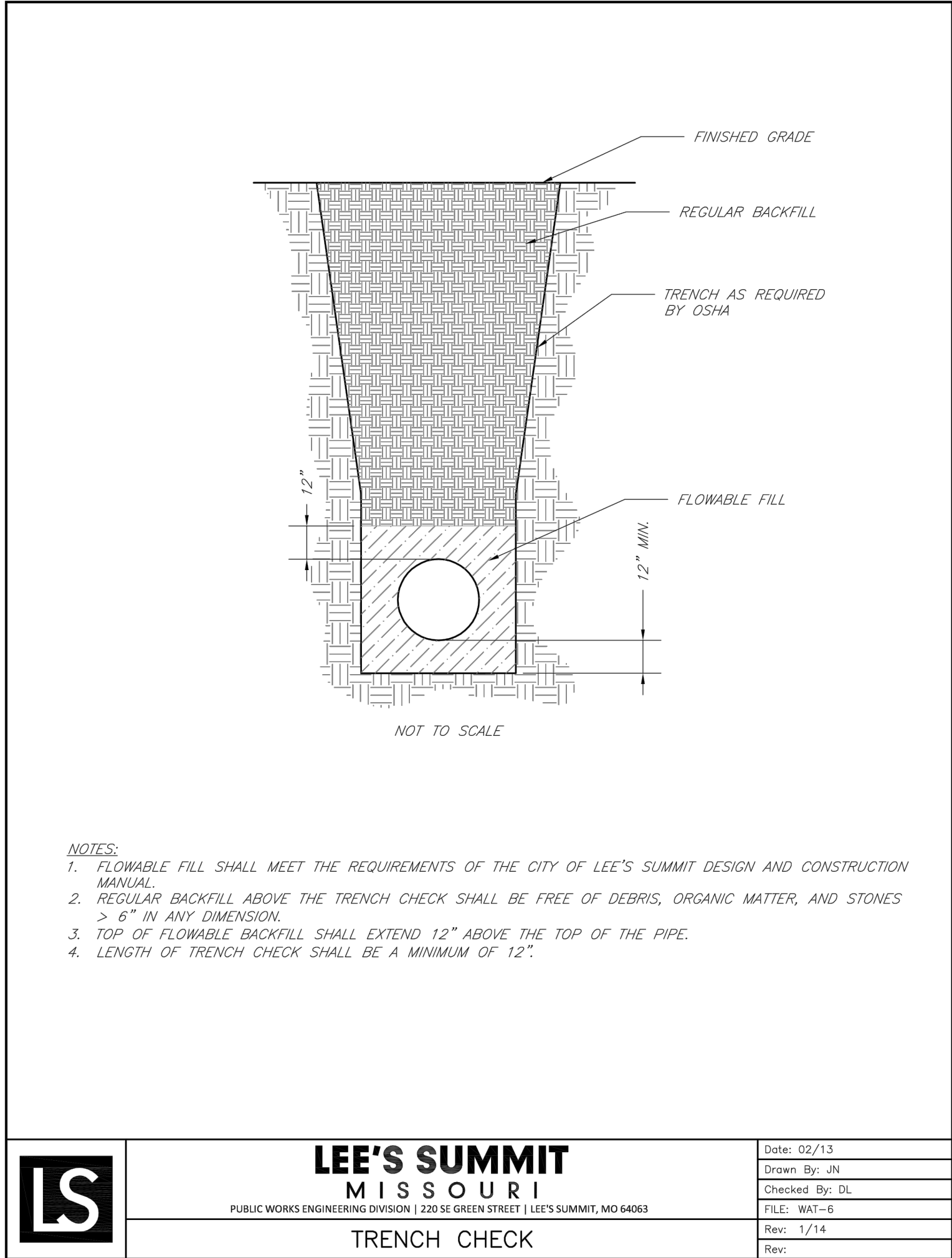
REVISED PER CITY COMMENTS

BY



olsson

NO. 00110101 of Architects at 001892
303 E. BROADWAY, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM



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NO Conflicts of Interest at 03/09/22
303 E. BIRLINGHAM STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.861.1177
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STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
7/10/20

BY

REVISIONS DESCRIPTION

NO. REV. DATE

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DETAILS SHEET
SANITARY SEWER PLANS

WOODSIDE RIDGE
SEWER/SIDEPART

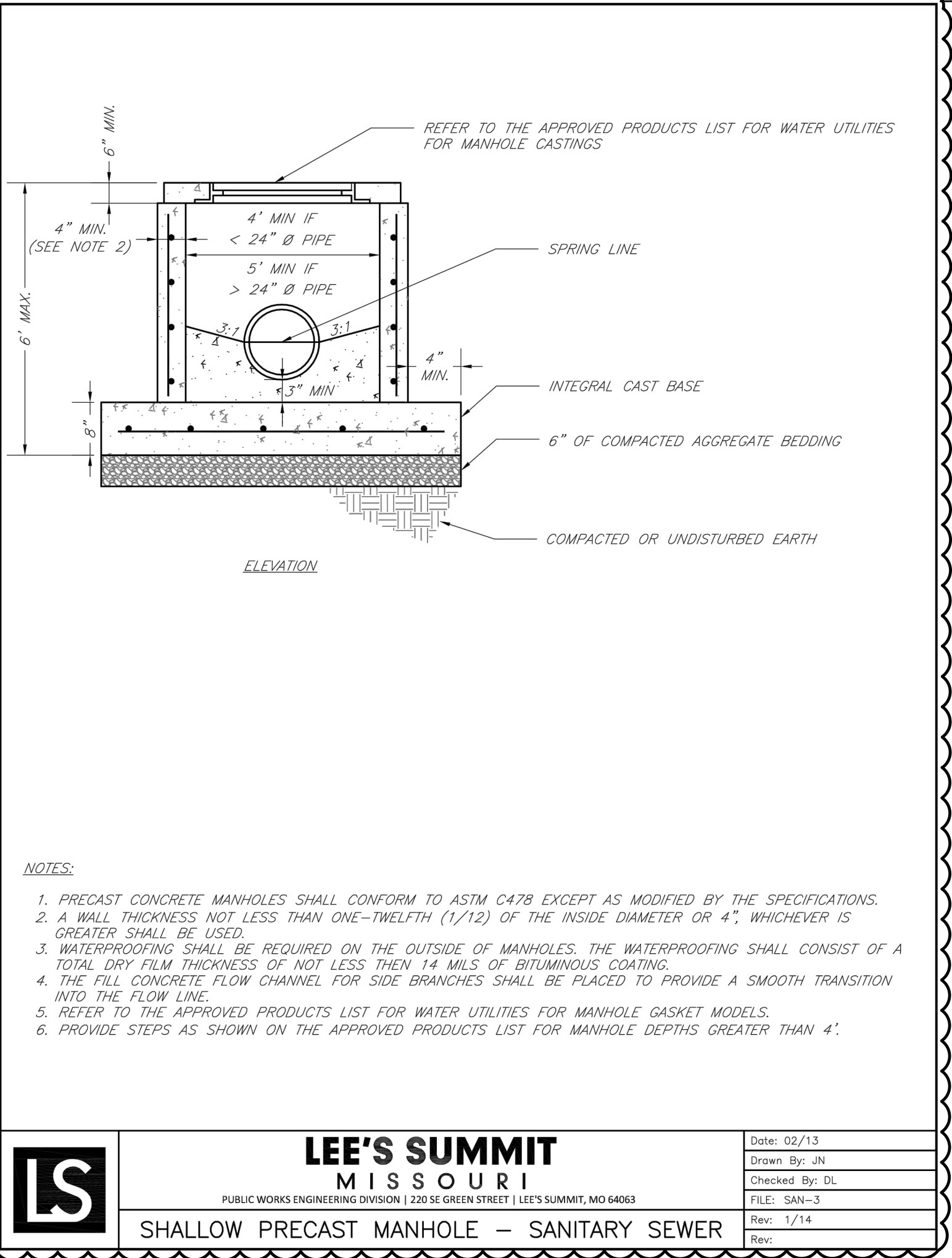
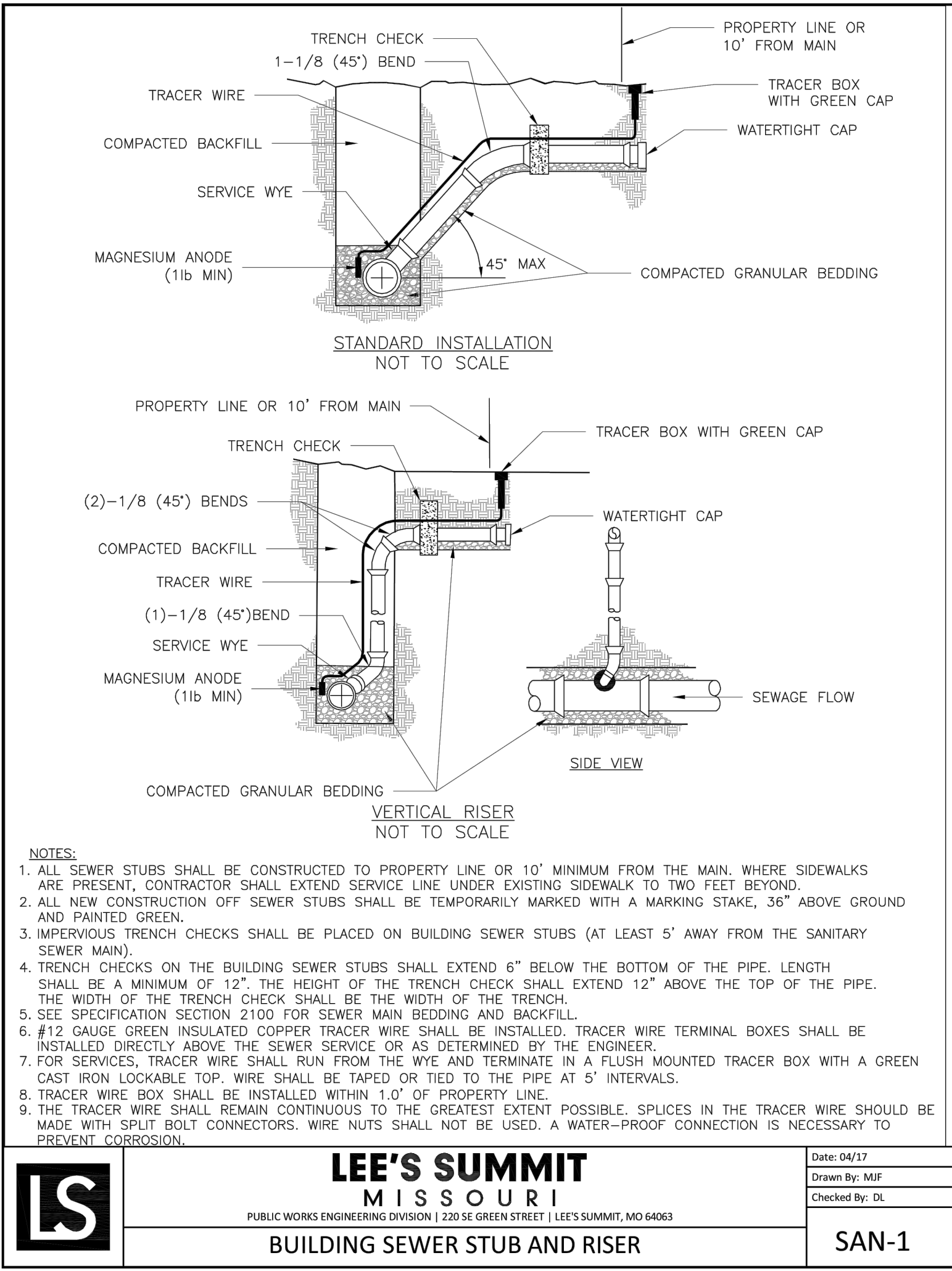
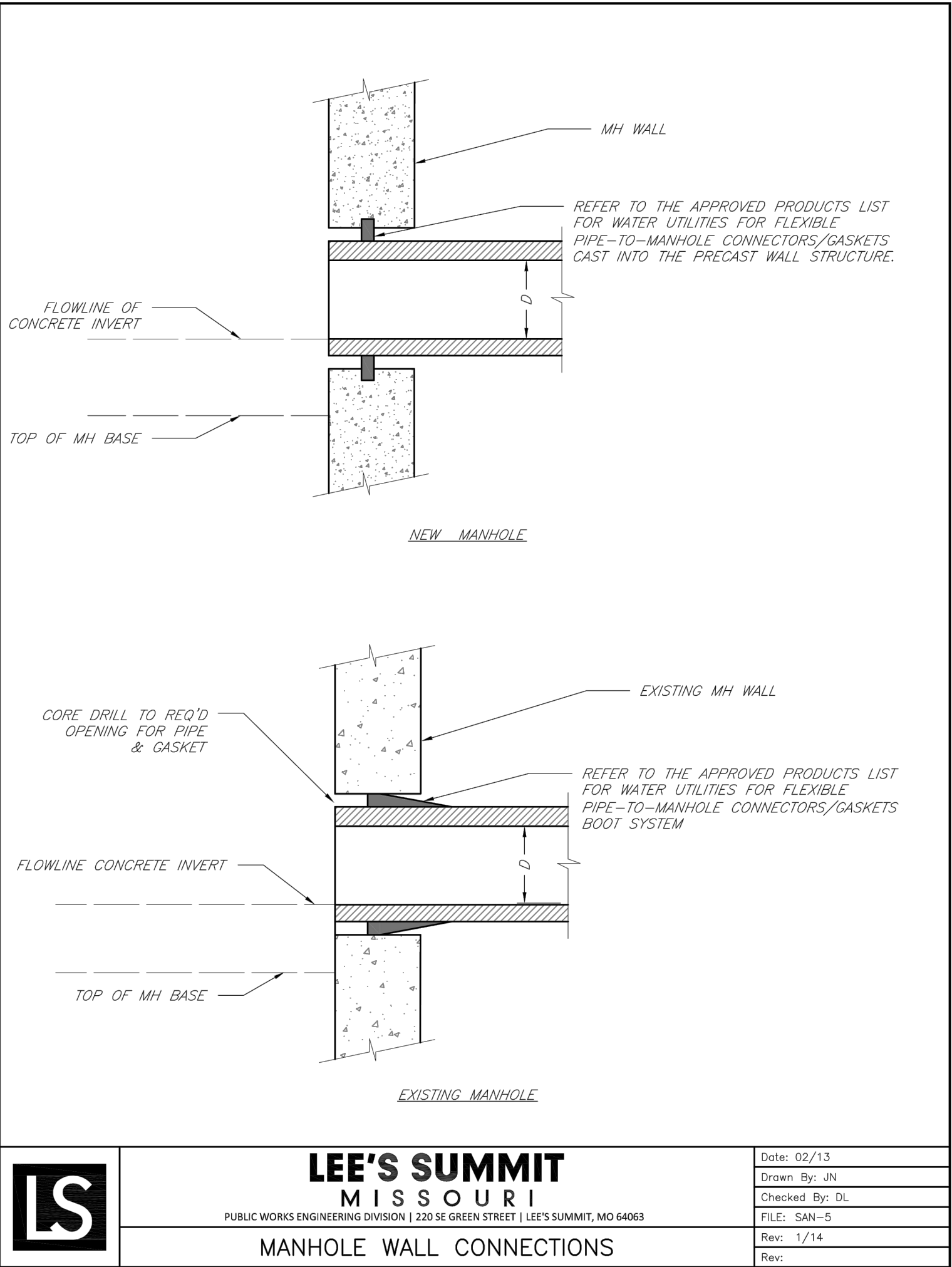
LEE'S SUMMIT, MO

2029

drawn by: C.S.M.
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C212

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans\Sheets\GNCV\Sanitary Sewer Plans\C-DTL01_C181140.dwg
DATE: Jul 09, 2020 12:52pm
USER: ssaylor



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olsson

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JULIE ELAINE SELLERS
Professional Engineer
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DETAILS SHEET
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C213