GENERAL NOTES

- 1. ALL WORK IN PUBLIC EASEMENT AND RIGHT-OF-WAY SHALL BE INSTALLED PER THE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT.
- 2. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL FEDERAL, STATE, AND
- TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL BE PLACED IN
- 4. THE CONTRACTOR SHALL NOT DISRUPT ANY OPERATIONS OF ADJACENT PROPERTIES DURING CONSTRUCTION. IF DISRUPTION IS NECESSARY TO FACILITATE CONSTRUCTION. CONTRACTOR IS TO CONTACT ENGINEER FOR
- 5. ANY UNFORESEEN CONDITIONS, SITE DISCOVERIES, OR INTERACTION WITH ADJACENT PROPERTY OWNERS OR THE CITY SHALL BE BROUGHT UP WITH THI ENGINEER IMMEDIATELY FOR REMEDY AND DOCUMENTATION. ANY MODIFICATION
- OF ALL EXISTING STRUCTURES. PAVEMENTS. AND FEATURES NECESSARY TO CONSTRUCT THE IMPROVEMENTS SHOWN HEREON. ANY WASTE MATERIALS GENERATED DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE. AND FEDERAL REGULATIONS GOVERNING SUCH DISPOSAL
- 7. THE CONTRACTOR SHALL PREVENT ANY TRASH, DEBRIS, OR LIQUID WASTES FROM BEING DISPOSED OF IN SANITARY SEWERS, STORM SEWERS, OR OPEN DRAINAGE SYSTEMS.
- 8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DAMAGE CAUSED TO OTHER PROPERTIES DURING CONSTRUCTION. IN THE EVENT OF DAMAGE TO ADJACENT PROPERTY, STRUCTURES, OR IMPROVEMENTS, THE CONTRACTOR SHALL REPAIR OR REPLACE SUCH DAMAGE TO THE PRECONSTRUCTION CONDITION AT THE CONTRACTOR'S EXPENSE.
- CONTRACTORS AT THE SITE SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY FOR ALL ASPECTS OF WORK SHOWN HEREON
- 10. ALL WORK AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN HEREON SHALL COMPLY WITH ALL REFERENCED STANDARDS SPECIFICATIONS, AND PLAN NOTES.
- 11. ALL BUILDINGS ARE SHOWN AS A REFERENCE ONLY. ALL BUILDINGS SHALL BE
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES ALL EXISTING UTILITIES INDICATED ON THESE PLANS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 13. ANY AND ALL HAZARDS SHALL BE PROPERLY IDENTIFIED AND BARRICADED FROM ACCESS DURING ALL NON-CONSTRUCTION PERIODS. ALL EXCAVATIONS AND HAZARDOUS AREAS SHALL BE FENCED OFF OR OTHERWISE SECURED AS TO NOT PRESENT A HAZARD TO THE GENERAL PUBLIC. AT A MINIMUM AT THE END OF EACH WORKING DAY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY.
- 14. UNLESS SPECIFIED OTHERWISE, ALL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED BY THESE PLANS.
- 15. PRIVATE EROSION & SEDIMENT CONTROL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH NPDES SCHEDULE AND REQUIREMENTS. AFTER INSPECTIONS, PROVIDE THE CITY OF LEE'S SUMMIT WITH REPORTS AND DOCUMENTATION.
- 16. A RIGHT-OF-WAY PERMIT IS REQUIRED FROM THE CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 17. WORKING HOURS SHALL BE FROM 7AM TO 7PM MONDAY THROUGH SATURDAY, WITH NO WORK ON SUNDAY WITHOUT PRIOR WRITTEN PERMISSION FROM THE CITY OF LEE'S SUMMIT.
- 18. CONTRACTOR SHALL PROVIDE ONE CHEMICALLY—TREATED PORTABLE TOILET FOR EVERY 20 EMPLOYEES ON THE JOB SITE.
- 19. FOLLOWING SUBSTANTIAL COMPLETION OF SITE/BUILDING IMPROVEMENTS, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO PERFORM A CHECKLIST OF SITE IMPROVEMENTS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

FEMA INFORMATION:

THE SITE IS NOT LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREAS (SFHA) PER FEMA FIRM MAP 29095C0417G; EFFECTIVE DATE OF JANUARY 20, 2017. NO LETTERS OF MAP AMENDMENT OR REVISIONS ARE BEING PROPOSED.

LEGAL DESCRIPTION:

LOT 4B, CORRECTED SUMMIT ORCHARD, LOTS 4A THRU 4E, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SUMMIT ORCHARDS LOT 4B FINAL DEVELOPMENT PLAN (PL2019278)

NW CHIPMAN RD & NW WARD RD LEE'S SUMMIT, MISSOURI 64086

SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST





Call before you dig.



STORM WATER

CITY OF LEE'S SUMMIT

220 SE GREEN STREET

LEE'S SUMMIT, MO 64063)

PHONE (816) 969-1900

UTILITIES

 $\overbrace{\hspace{1cm}}$

SANITARY & WATER

STREETS

MICHAEL PARK

CITY OF LEE'S SUMMIT JEFF THORN 1200 SE HAMBLEN STREET LEE'S SUMMIT, MO 64081 PHONE (816) 969-1900

CITY OF LEE'S SUMMIT

220 SE GREEN STREET

RONALD GIPFERT 500 E 8TH STREET KANSAS CITY, MO 64106 PHONE (816) 275-1550 LEE'S SUMMIT, MO 64063 PHONE (816) 969-1900

RON DEJARNETTE 1300 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 PHONE (816) 347-4316

MISSOURI GAS ENERGY RICHARD FROCK 3025 SW CLOVER DRIVE LEE'S SUMMIT, MO 64082 PHONE (816) 472-3489

CONTROL POINT INFORMATION:

HORIZONTAL CONTROL CONTROL POINT 1 N: 1005456.776

CONTROL POINT 2 N: 1004573.716 E: 2820097.881

CONTROL POINT 3 N: 1004643.349 E: 2818936.621

E: 2819229.265

BENCHMARKS

BM-"A" ELEV.=1006.99' SQUARE CUT ON THE CENTERLINE FRONT FACE OF A CURB INLET LOCATED NEAR THE NORTHEAST QUADRANT

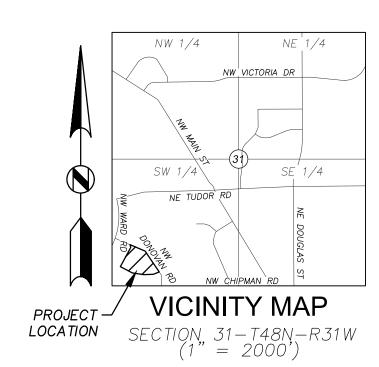
OF THE INTERSECTION OF NW DONOVAN RD AND NW WARD RD. BM-"B" ELEV.=1006.18'

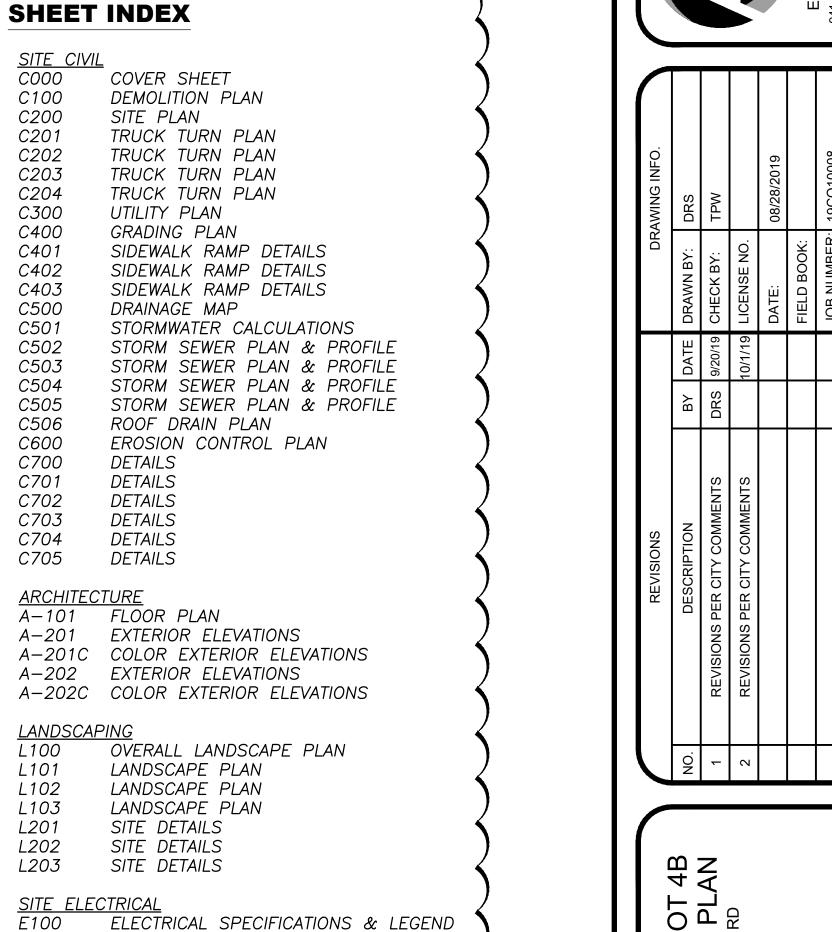
SQUARE CUT ON THE NORTHEAST CORNER OF THE 2ND CURB INLET WEST OF THE INTERSECTION OF NW DONOVAN RD. AND NW CHIPMAN RD. ON THE NORTH SIDE OF NW CHIPMAN RD.

*COORDINATES SHOWN ARE GRID VALUES BASED ON MGRS JA-43

DEVELOPER

TOWNSEND SUMMIT, LLC. 11311 MCCORMICK ROAD, SUITE 470 HUNT VALLEY, MARYLAND 21031 (816) 251-54100 CONTACT: STEVE RICH





PREPARED & SUBMITTED BY:

SITE LIGHTING PLAN

ELECTRICAL DETAILS

SIGNAGE LIGHTING PLAN

SITE LIGHTING POINT BY POINT

ELECTRICAL RISERS & SCHEDULES

E102

E103

ANDERSON ENGINEERING, INC. 4240 PHILLIPS FARM ROAD, SUITE COLUMBIA. MO 65201 P. WOOTEN NUMBER (579) 397-5476 E-2000150081 1 homes

ELECTRICAL SPECIFICATIONS & LEGEND

THOMAS P. WOOTEN, P.E. MISSOURI P.E. NO. 2000150081

APPROVED BY:

CITY OF LEE'S SUMMIT, MISSOURI

AUTHORIZING POSITION

DATE

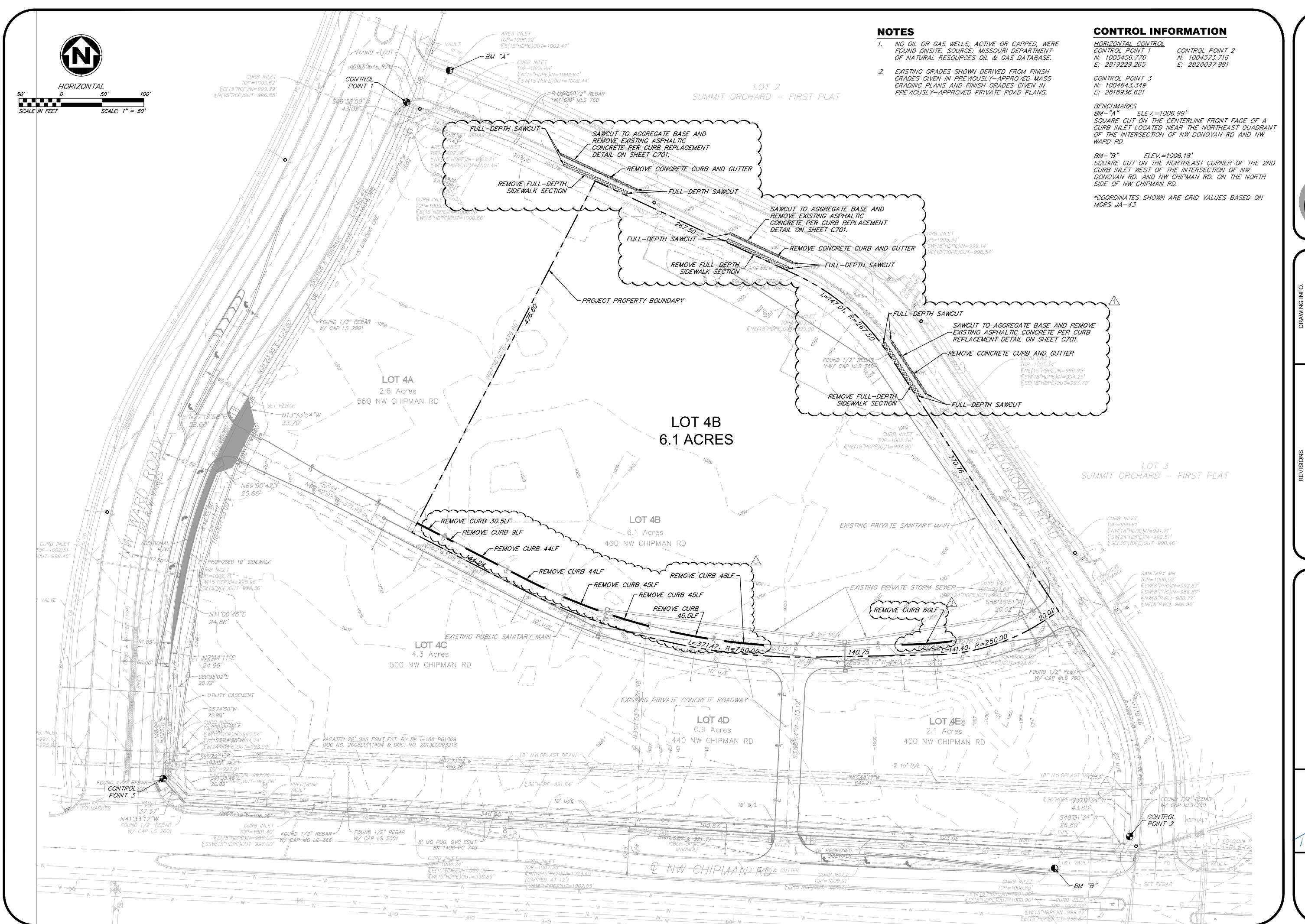
DATE



	REVISIONS			DR	DRAWING INFO.
	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY: DRS	DRS
REV	REVISIONS PER CITY COMMENTS	DRS	9/20/19	DRS 9/20/19 CHECK BY:	Mdl
REVIS	/ISIONS PER CITY COMMENTS		10/1/19	10/1/19 LICENSE NO.	
				DATE:	08/28/2019
				FIELD BOOK:	
				JOB NUMBER: 19CO10008	19CO10008
9	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

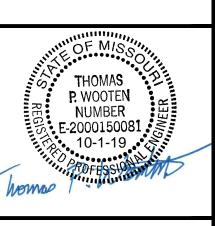
里 SUMMIT FINAL DE

SHEET NUMBER



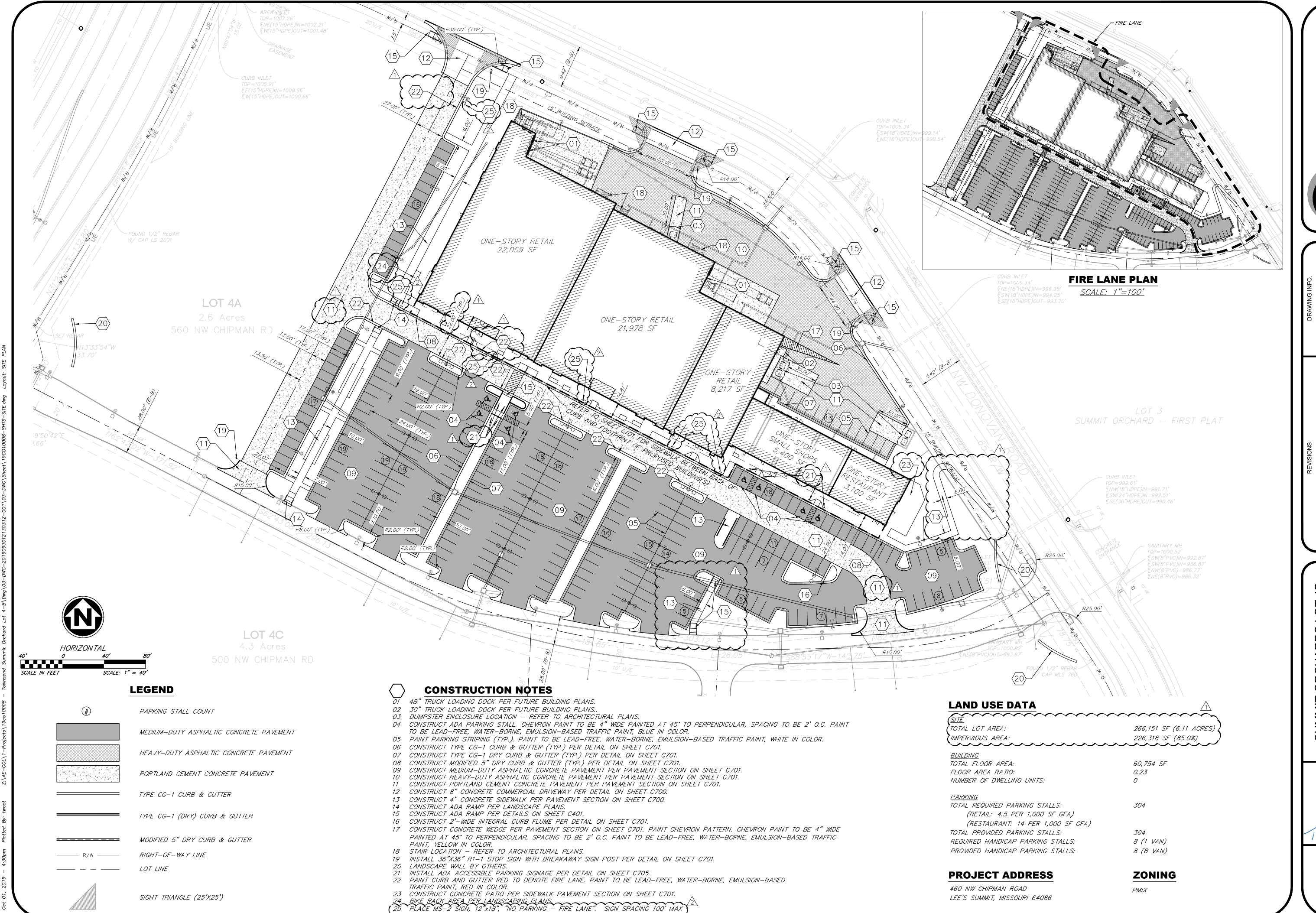
DRAWING INFO.	DRS	TPW		08/28/2019		19CO10008	
DR	BY DATE DRAWN BY:	DRS 9/20/19 CHECK BY:	TPW 10/1/19 LICENSE NO.	DATE:	FIELD BOOK:	JOB NUMBER: 19CO10008	
	DATE	9/20/19	10/1/19				
	ВУ	DRS	TPW				2019
REVISIONS	DESCRIPTION	REVISIONS PER CITY COMMENTS	REVISIONS PER CITY COMMENTS				© COPYRIGHT ANDERSON ENGINEERING, INC. 2019

SUMMIT ORCHARDS LOT 4E
FINAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086



SHEET NUMBER

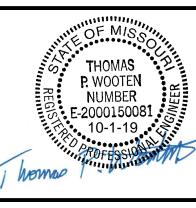
100
2 of 44



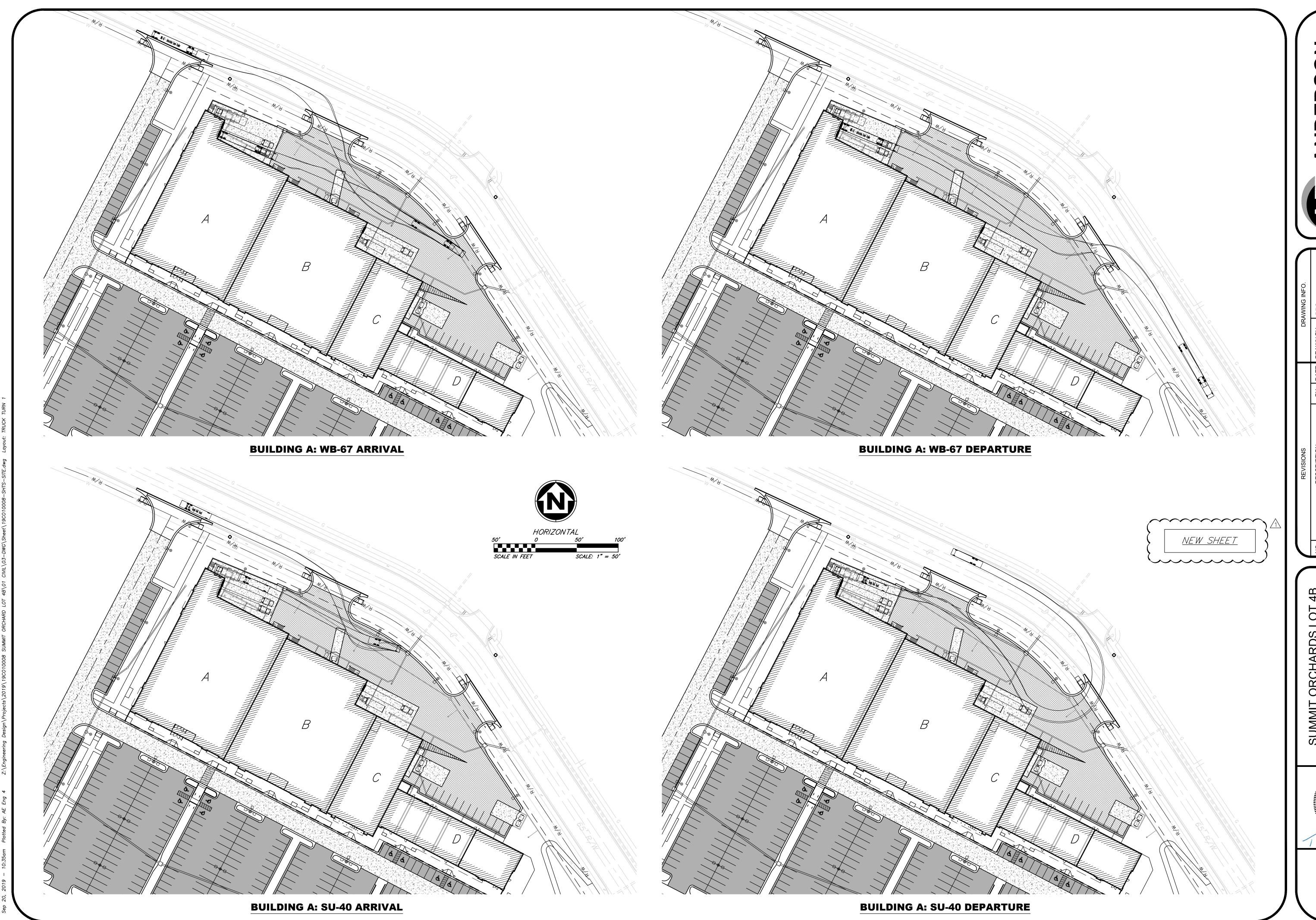


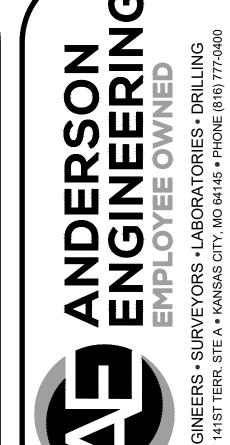
DRAWING INFO.	DRS	TPW		08/28/2019		19CO10008	
DR	BY DATE DRAWN BY: DRS	DRS 9/20/19 CHECK BY:	TPW 10/1/19 LICENSE NO.	DATE:	FIELD BOOK:	JOB NUMBER: 19CO10008	
	DATE	9/20/19	10/1/19				
	ВУ	DRS	MdT				2019
REVISIONS	DESCRIPTION	REVISIONS PER CITY COMMENTS	REVISIONS PER CITY COMMENTS				© COPYRIGHT ANDERSON ENGINEERING, INC. 2019
	NO.	1	2				

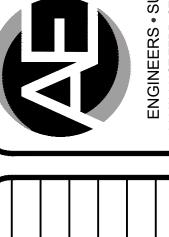
SUMMIT FINAL DE NW CHI LEE'S (



SHEET NUMBER







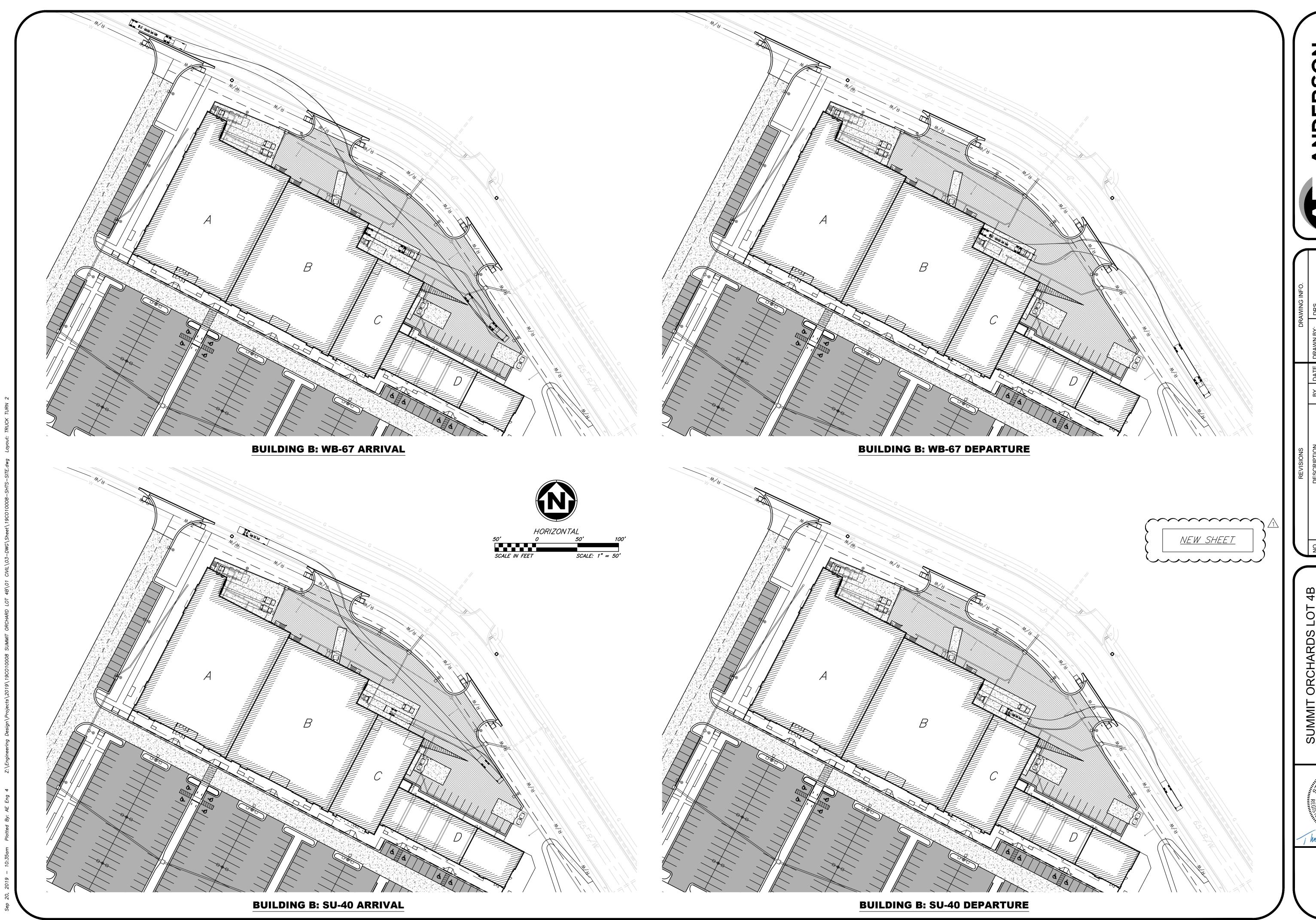
	REVISIONS			DR.	DRAWING IN
NO.	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	DRS
7	REVISIONS PER CITY COMMENTS	DRS	9/20/19	DRS 9/20/19 CHECK BY:	TPW
				LICENSE NO.	
				DATE:	08/28/20
				FIELD BOOK:	
				JOB NUMBER: 19CO10	19CO10
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

SUMMIT ORCHARDS LOT 4
FINAL DEVELOPMENT PLA
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086

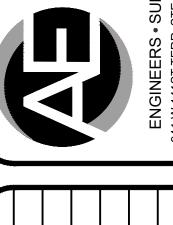
THOMAS
P. WOOTEN
NUMBER
E-2000150081
9-20-19

SHEET NUMBER

201
4 of 44



ANDERSON
ENGINEERS SURVEYORS - LABORATORIES - DRILLING
41ST TERR. STE A • KANSAS CITY, MO 64145 • PHONE (816) 777-0400



	REVISIONS			DR	DRAWING IN
NO.	DESCRIPTION	ВҮ	DATE	BY DATE DRAWN BY:	DRS
1	REVISIONS PER CITY COMMENTS	DRS	9/20/19	DRS 9/20/19 CHECK BY:	TPW
				LICENSE NO.	
				DATE:	08/28/20
				FIELD BOOK:	
				JOB NUMBER: 19CO10	19CO10
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

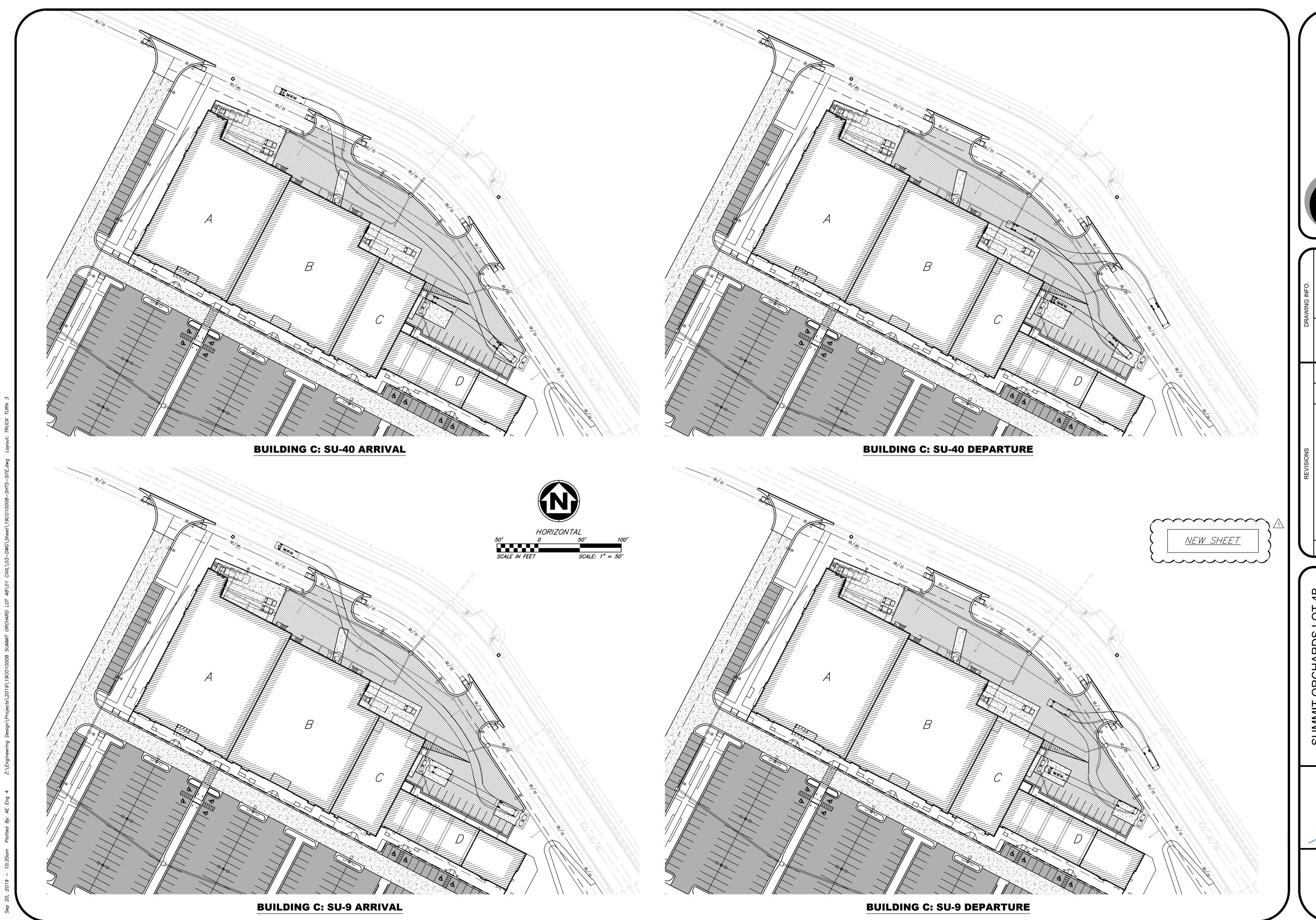
SUMMIT ORCHARDS LOT FINAL DEVELOPMENT PLANW CHIPMAN RD & NW WARD RD LEE'S SUMMIT, MISSOURI 64086

THOMAS
P. WOOTEN
NUMBER
E-2000150081

SHEET NUMBER

202

5 of 44





 SAAWING INFO.

 DN
 BY
 DATE
 DRAWN BY:
 DRS

 DMMENTS
 DRS
 9/20/19
 CHECK BY:
 TPW

 LICENSE NO.
 LICENSE NO.
 DATE:
 08/28/2019

 PIELD BOOK:
 FIELD BOOK:
 FIELD BOOK:

 JOB NUMBER:
 19CO10008

 A ENGINEERING, INC. 2019
 19CO10008

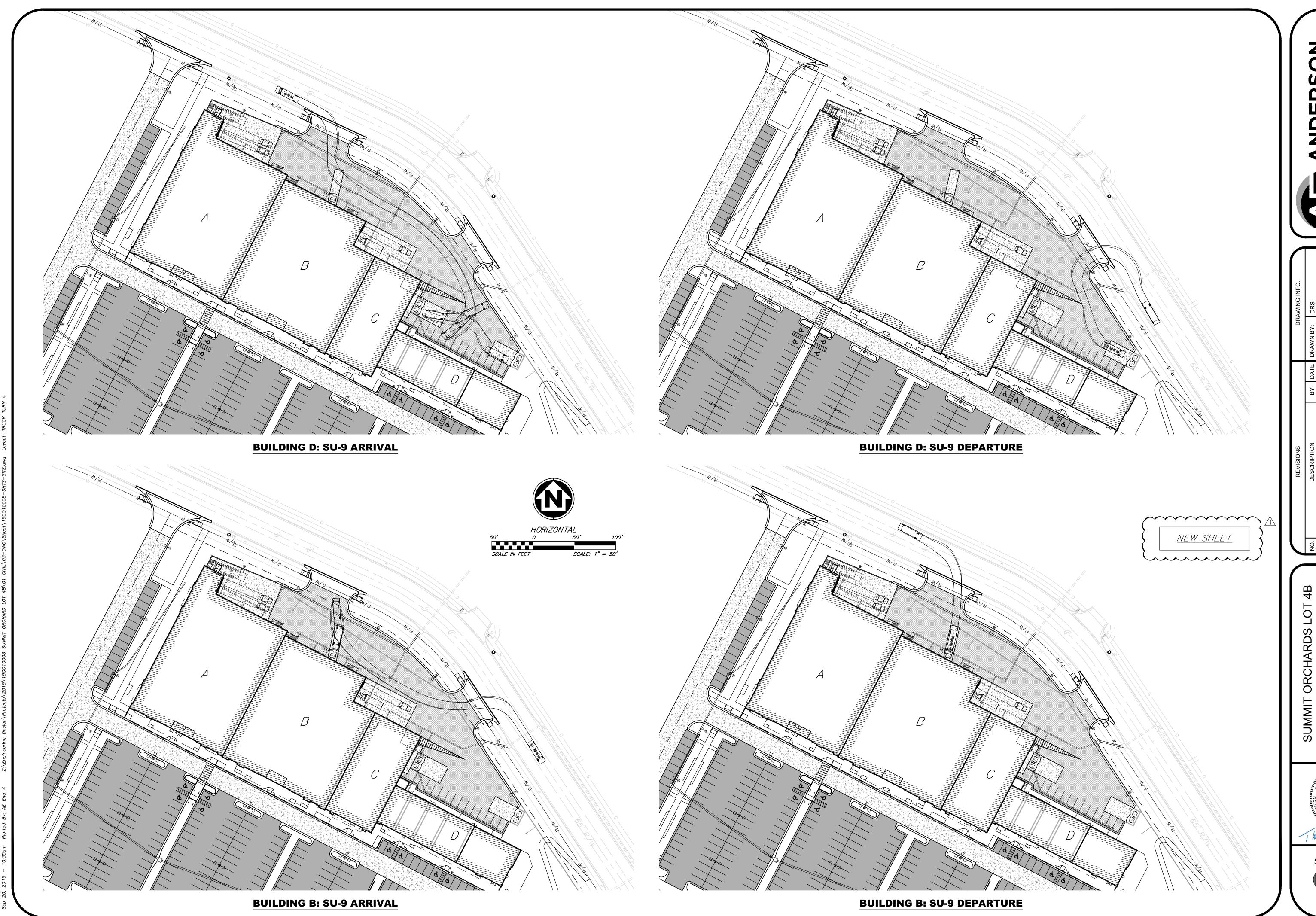
SUMMIT ORCHARDS LOT 4B
FINAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086

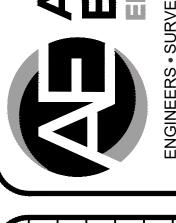
THOMAS
P. WOOTEN
NUMBER
E-2000150081
9-20-19

SHEET NUMBE

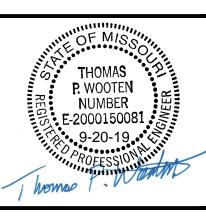
C 203

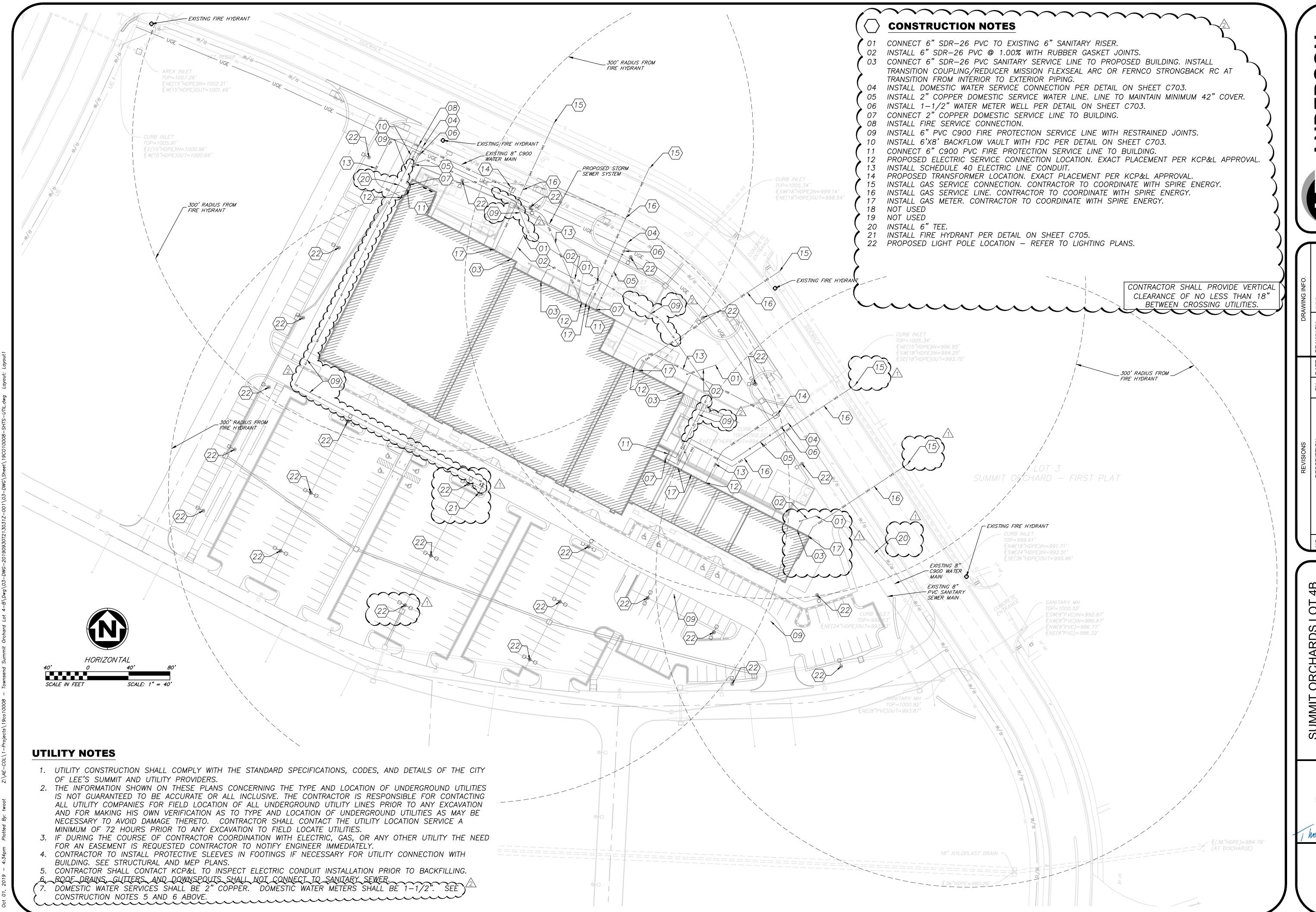
6 OF 44





1					
	REVISIONS			/AO	DRAWING INF
NO.	DESCRIPTION	ВУ	ву рате	DRAWN BY:	DRS
_	REVISIONS PER CITY COMMENTS	DRS	9/20/19	DRS 9/20/19 CHECK BY:	TPW
				LICENSE NO.	
				DATE:	08/28/201
				FIELD BOOK:	
				JOB NUMBER: 19CO100	19CO100
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			



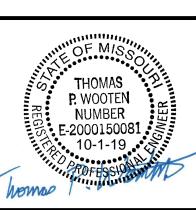


ANDERSON ENGINEERING

ENGINEERS • SUF

DRS	TPW		08/28/2019		19CO10008	
BY DATE DRAWN BY:	DRS 9/20/19 CHECK BY:	TPW 10/1/19 LICENSE NO.	DATE:	FIELD BOOK:	JOB NUMBER: 19CO10008	
DATE	9/20/19	10/1/19				
ВУ	SYO	Mdl				2019
DESCRIPTION	REVISIONS PER CITY COMMENTS	REVISIONS PER CITY COMMENTS				© COPYRIGHT ANDERSON ENGINEERING, INC. 2019

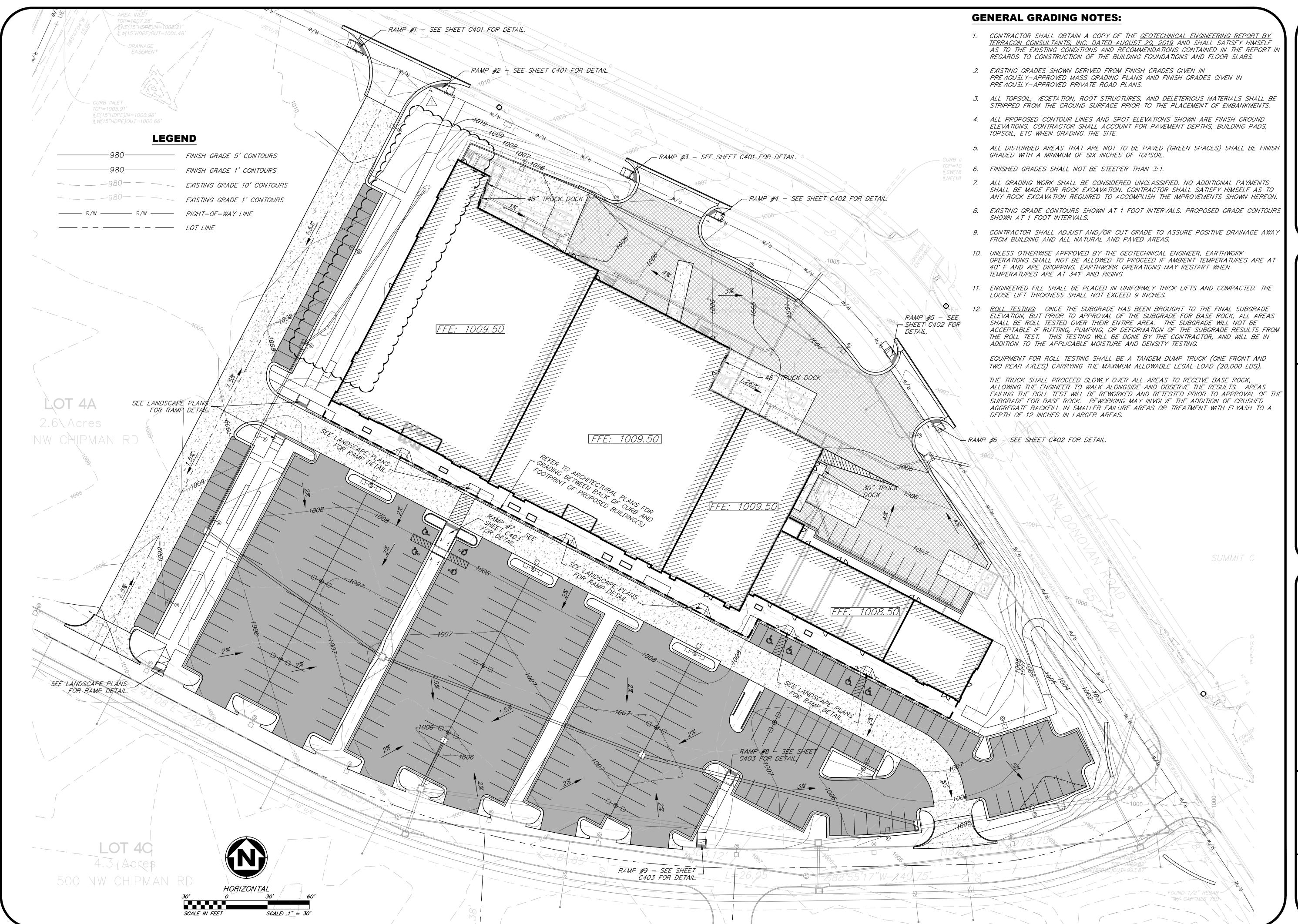
SUMMIT ORCHARDS LOT 4
FINAL DEVELOPMENT PLA
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086



SHEET NUMBER

300

8 of 44





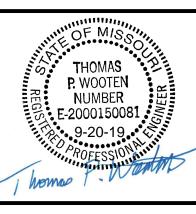
 DESCRIPTION
 BY
 DATE
 DRAWN BY:
 DRS

 EVISIONS PER CITY COMMENTS
 DRS
 9/20/19
 CHECK BY:
 TPW

 LICENSE NO.
 LICENSE NO.
 DATE:
 08/28/2019

 PIELD BOOK:
 FIELD BOOK:
 JOB NUMBER:
 19CO10008

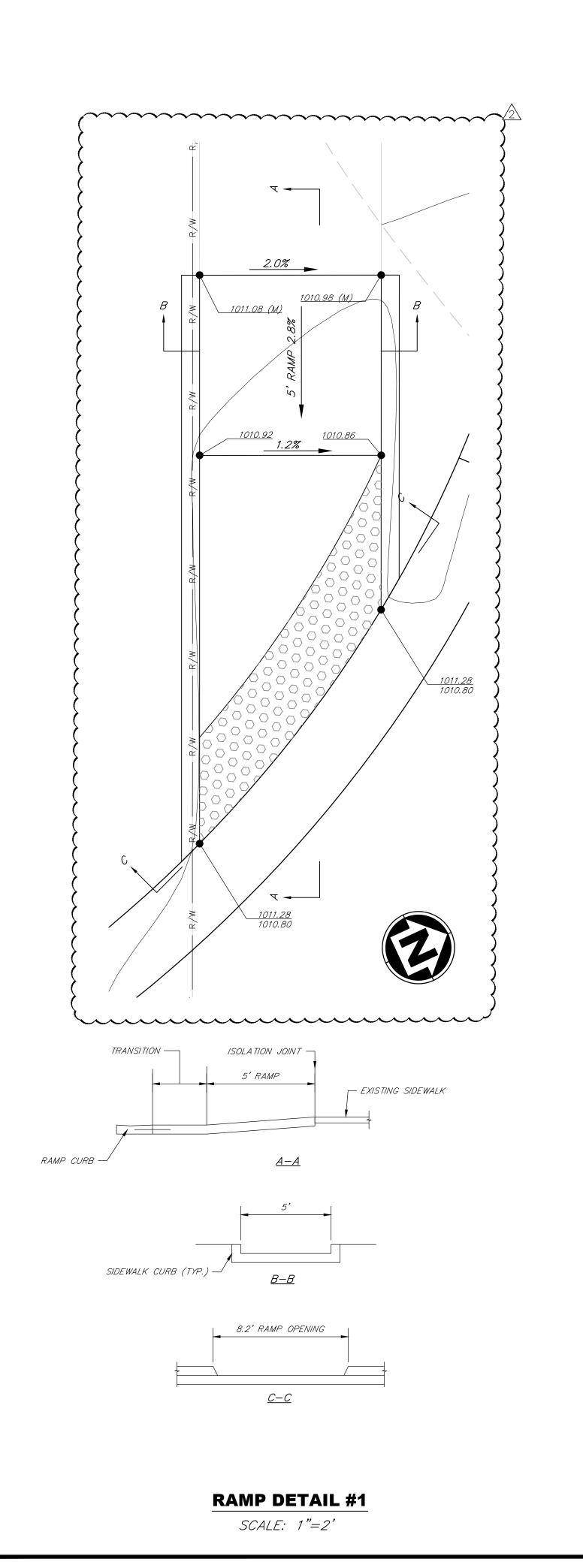
W CHIPMAN RD & NW WARD RD EE'S SUMMIT, MISSOURI 64086

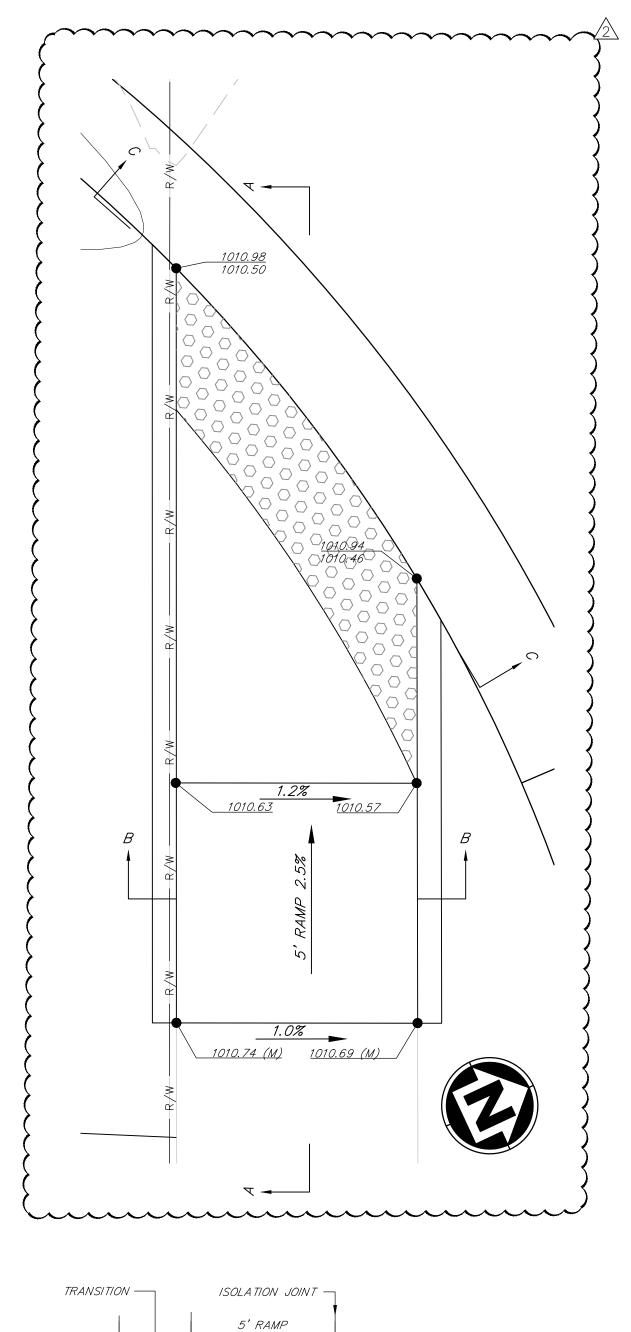


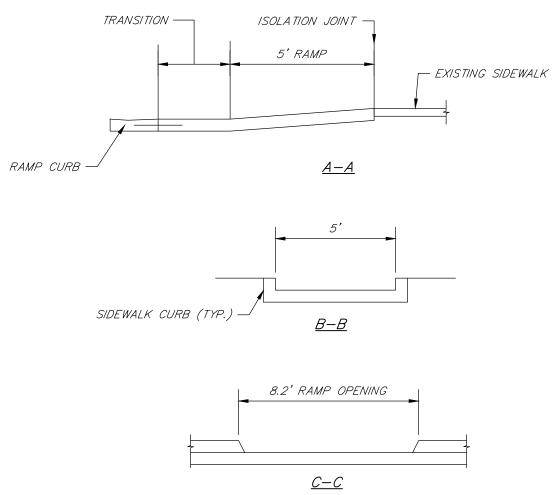
SHEET NUMBER

C400

9 of 44

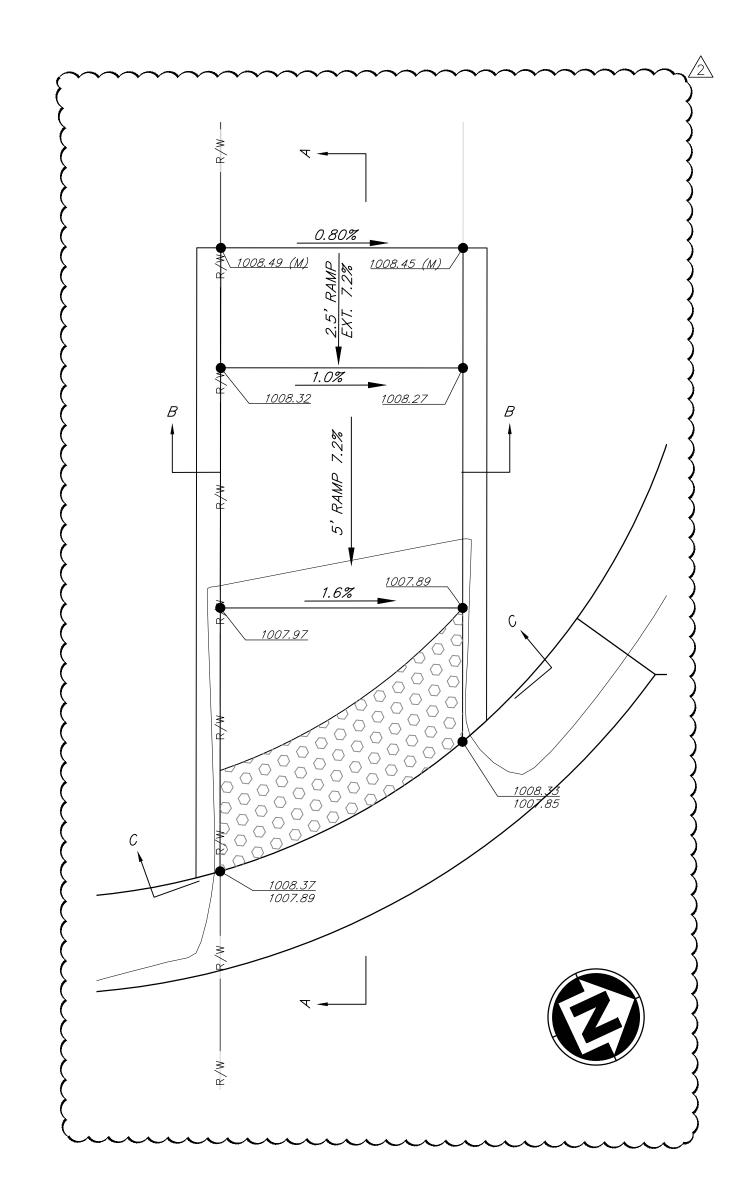


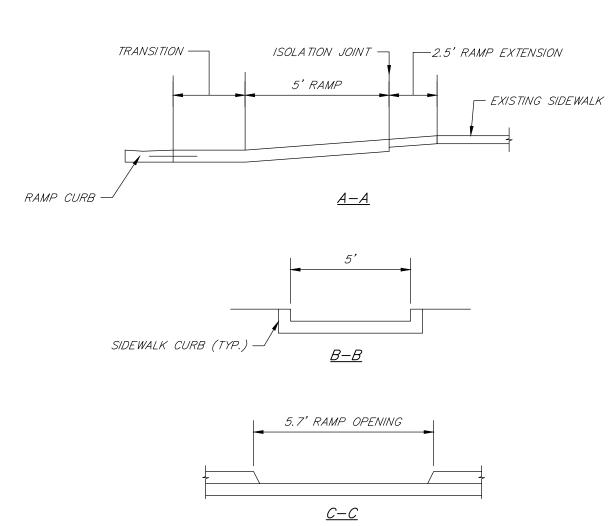




RAMP DETAIL #2

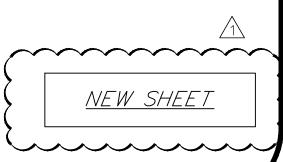
SCALE: 1"=2'





RAMP DETAIL #3

SCALE: 1"=2'



	REVISIONS			DR	DRAWING INFO.
NO.	DESCRIPTION	ВҮ	DATE	BY DATE DRAWN BY:	DRS
7	REVISIONS PER CITY COMMENTS	DRS	9/20/19	DRS 9/20/19 CHECK BY:	MdT
2	REVISIONS PER CITY COMMENTS	TPW	10/1/19	TPW 10/1/19 LICENSE NO.	
				DATE:	08/28/2019
				FIELD BOOK:	
				JOB NUMBER: 19CO10008	19CO10008
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

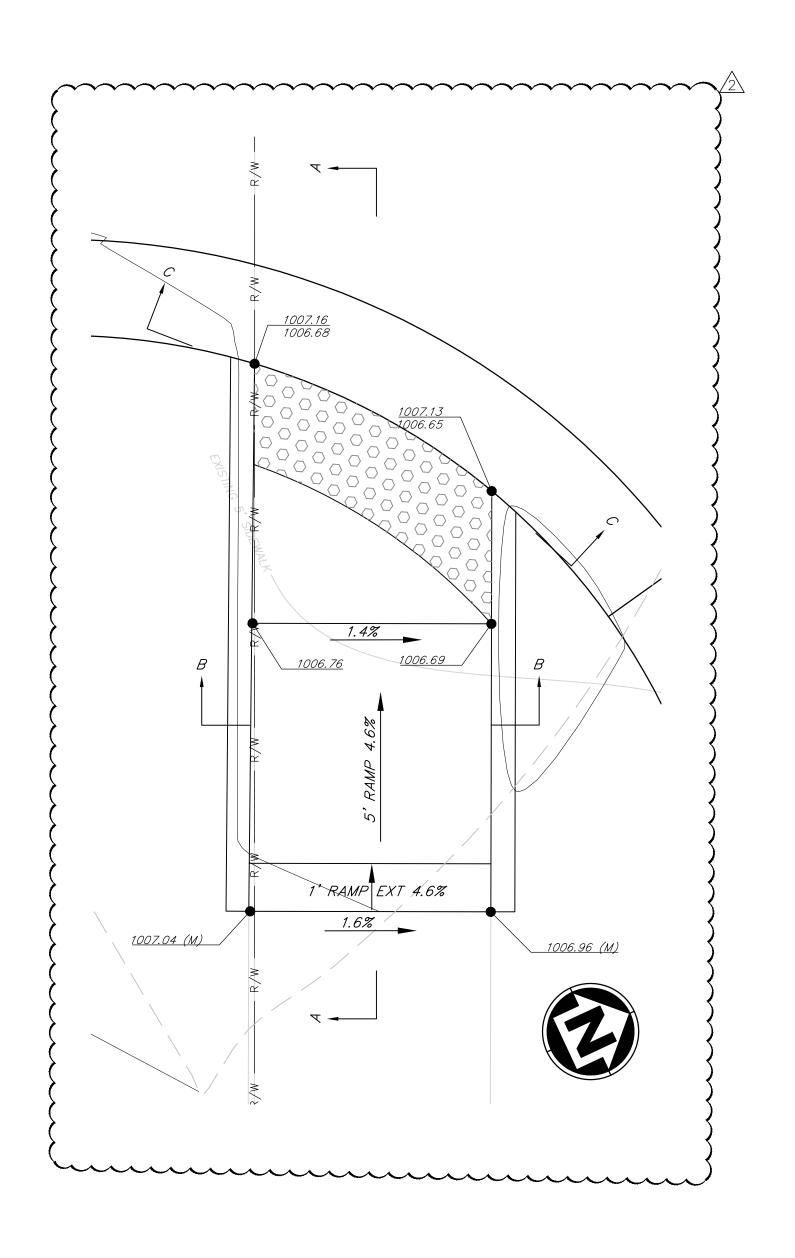
NAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086

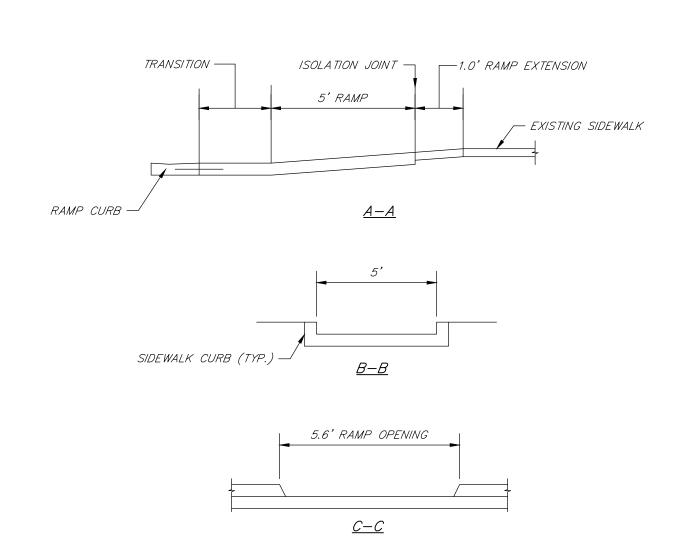
THOMAS
P. WOOTEN
NUMBER
E-2000150081
10-1-19

SHEET NUMBER

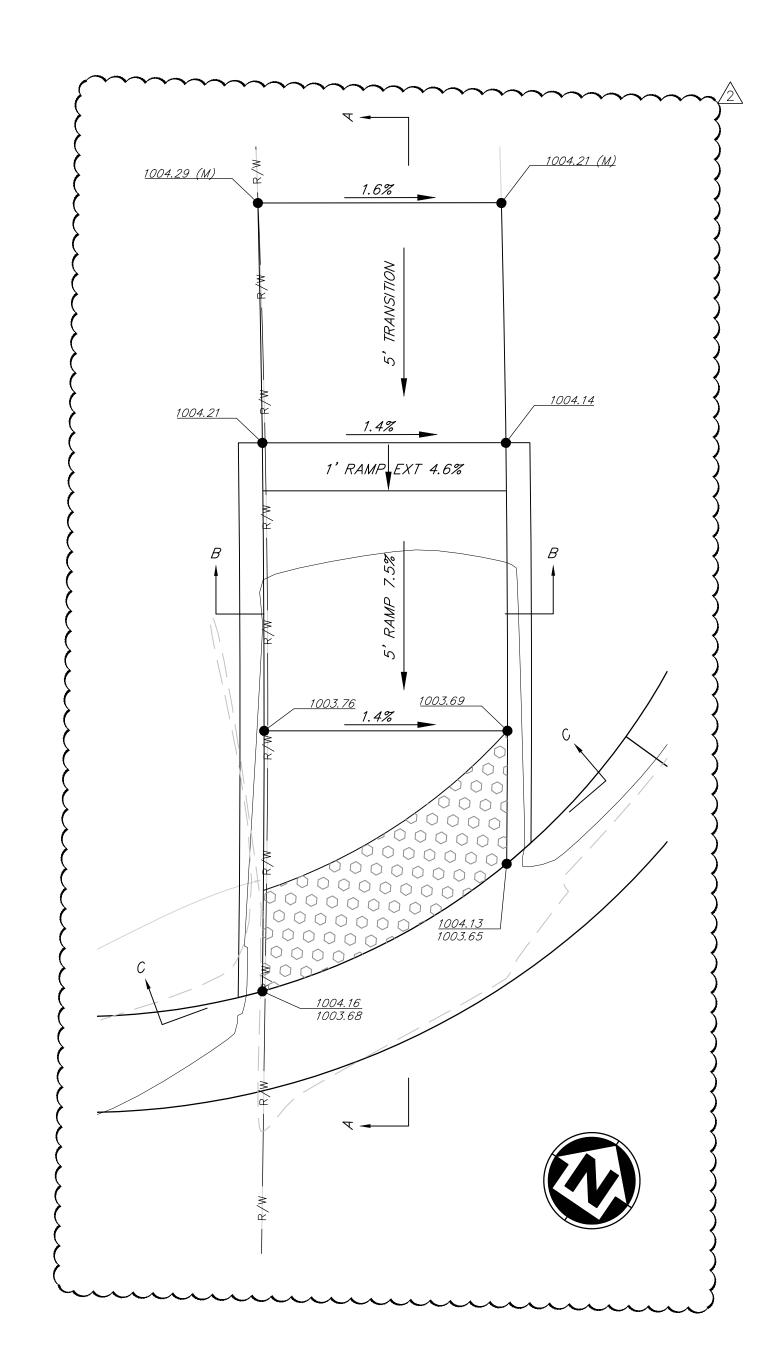
401

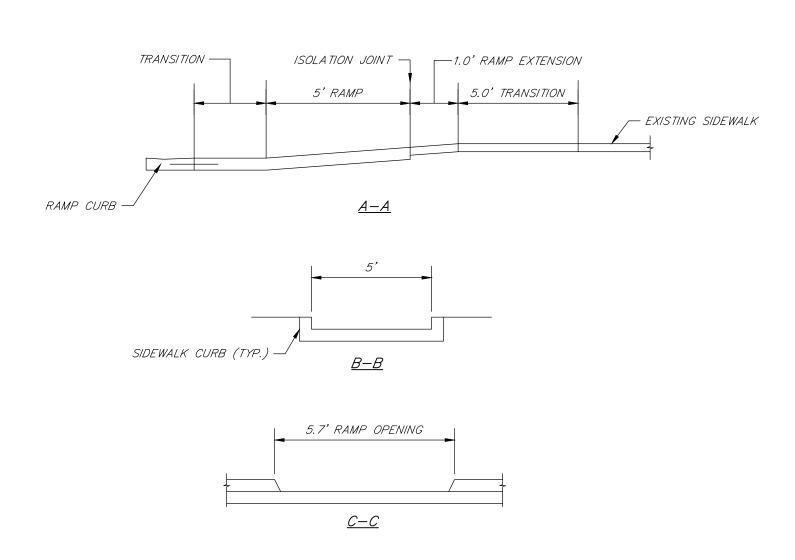
10 of 44





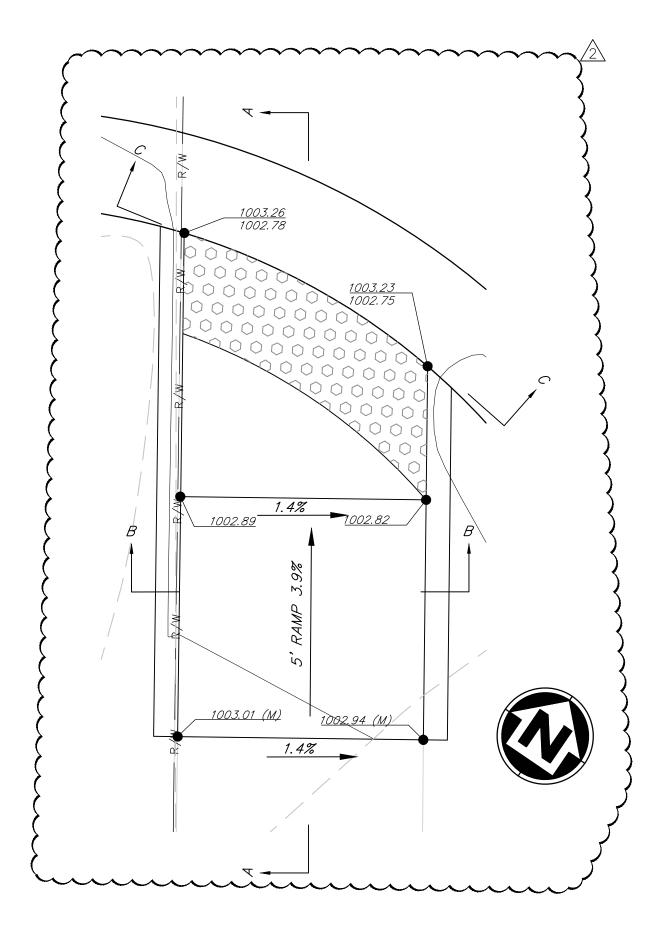


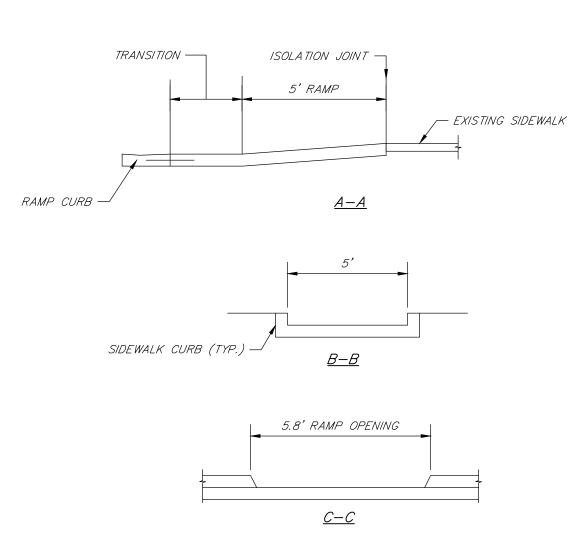




RAMP DETAIL #5

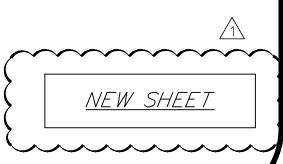
SCALE: 1"=2'





RAMP DETAIL #6

SCALE: 1"=2'



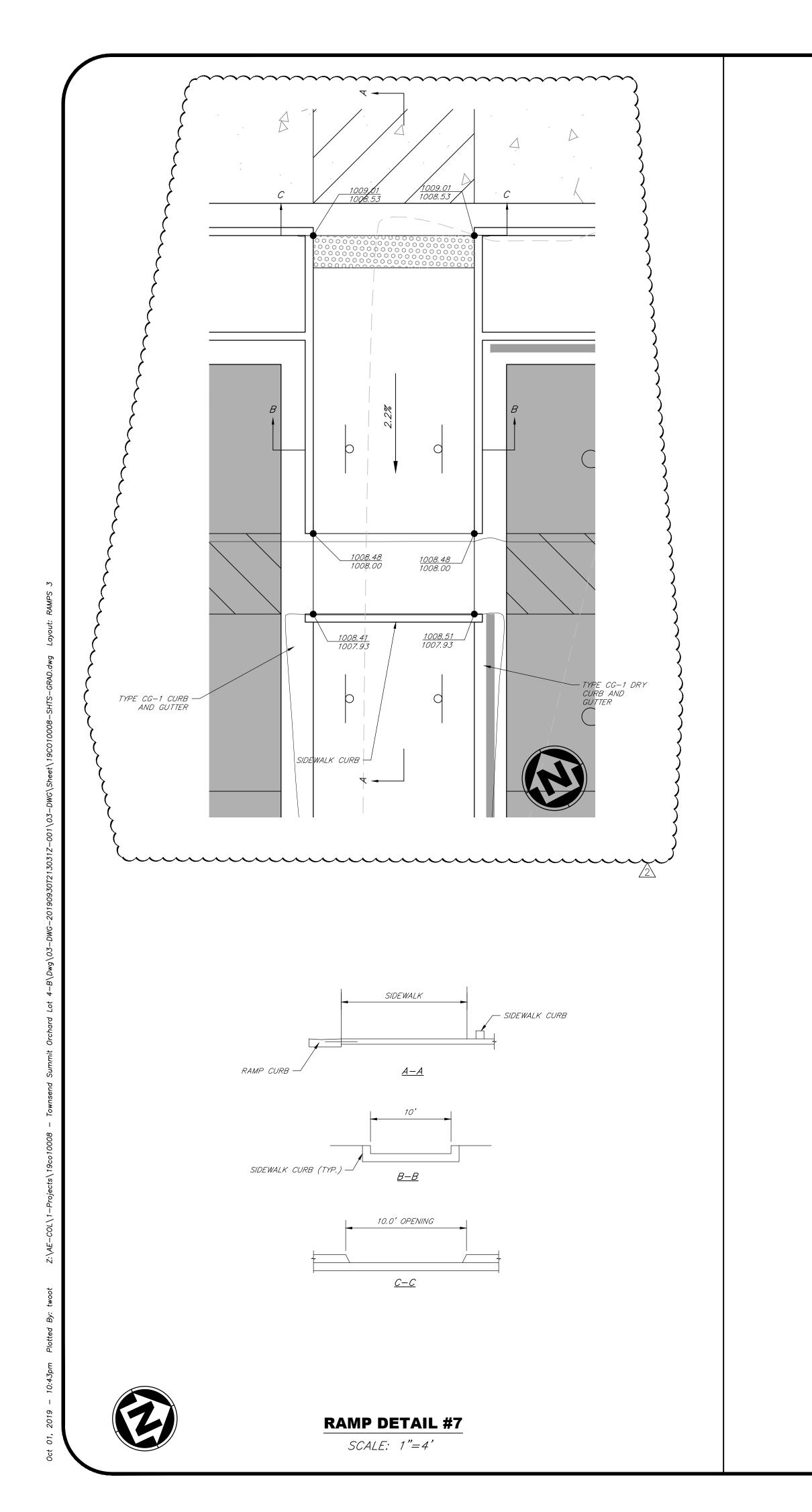
			2019	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	
19CO10008	JOB NUMBER: 19CO10008				
	FIELD BOOK:				
08/28/2019	DATE:				
	TPW 10/1/19 LICENSE NO.	10/1/19	Mdl	REVISIONS PER CITY COMMENTS	2
TPW	DRS 9/20/19 CHECK BY:	9/20/19	DRS	REVISIONS PER CITY COMMENTS	_
DRS	BY DATE DRAWN BY:	DATE	ΑЯ	DESCRIPTION	NO.
DRAWING INFO	'NO			REVISIONS	

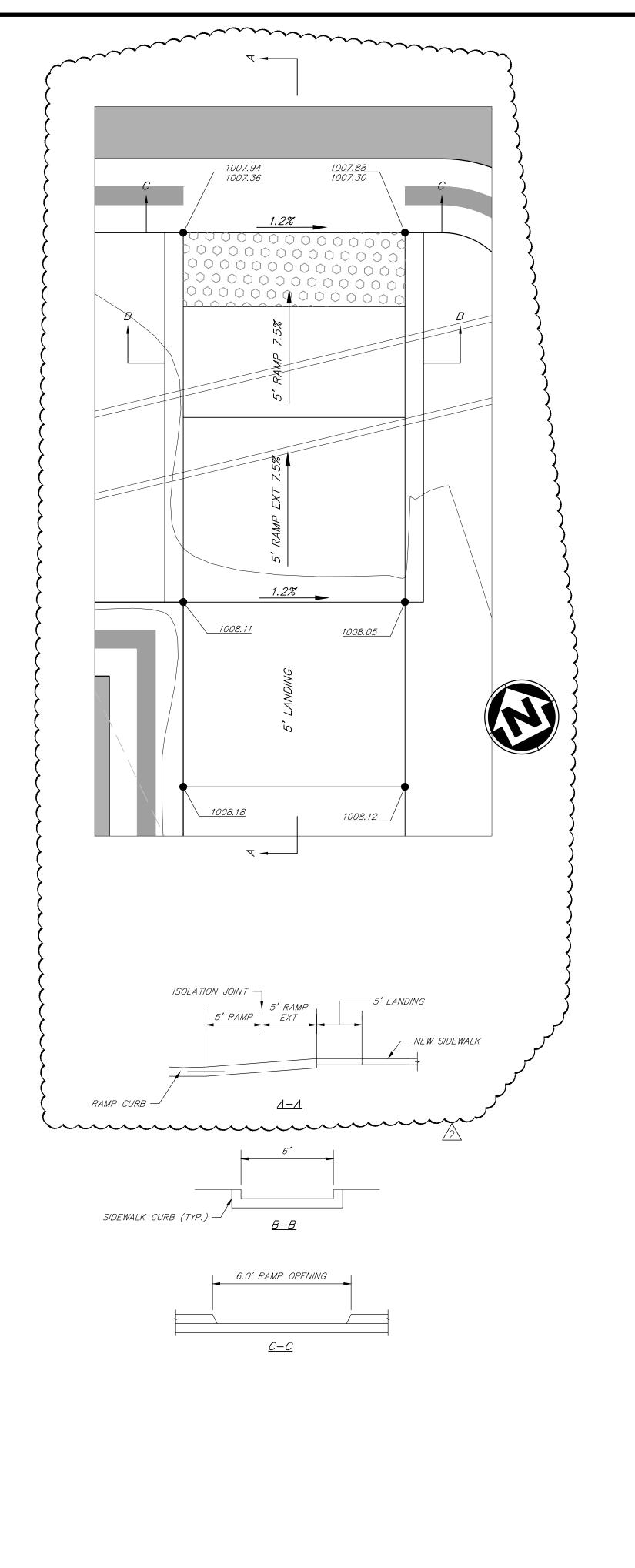
NAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086

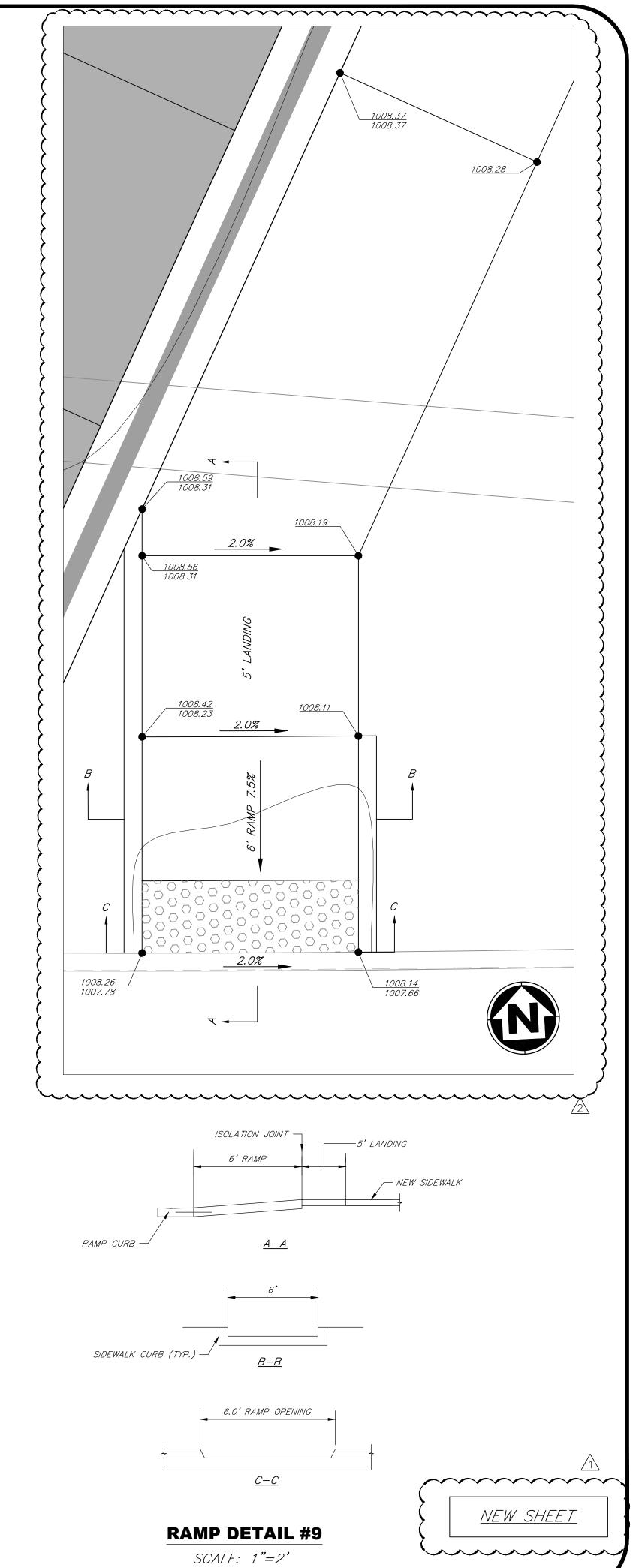
THOMAS
P. WOOTEN
NUMBER
E-2000150081
10-1-19

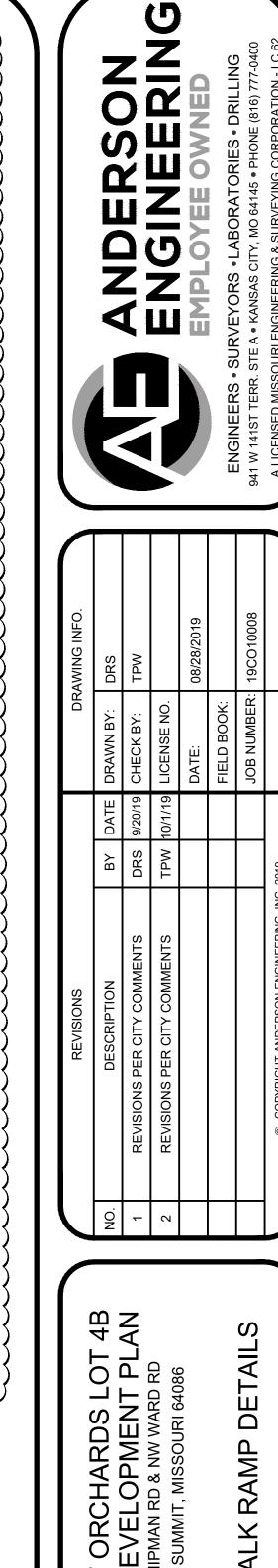
SHEET NUMBER

11 of 44





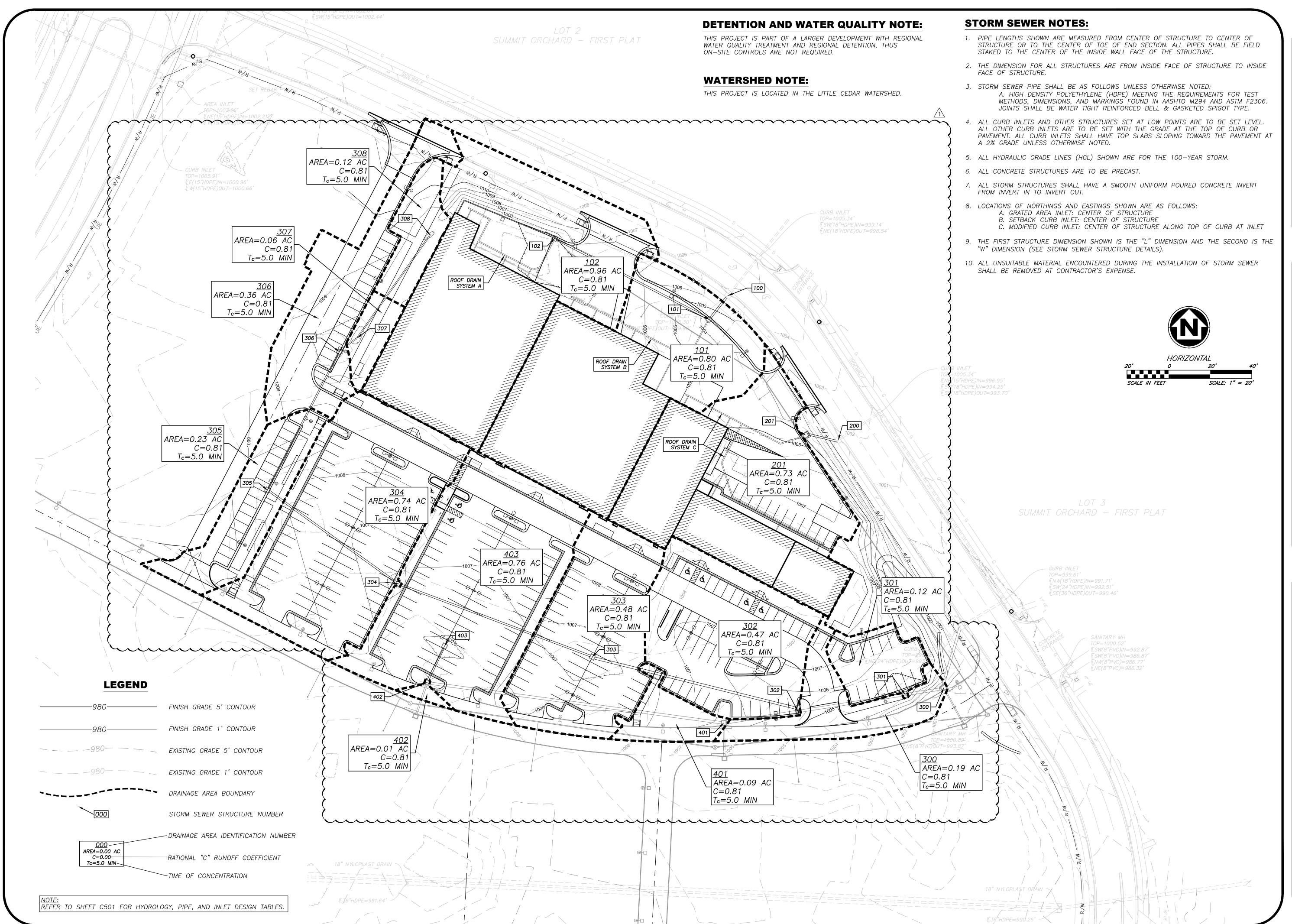


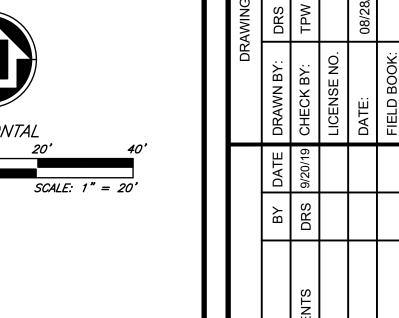


SHEET NUMBER

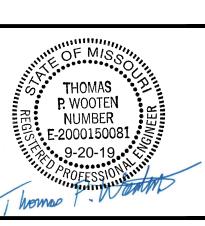
RAMP DETAIL #8

SCALE: 1"=2'





SUMMIT FINAL DE NW CHII LEE'S &



SHEET NUMBER

HYDROLOGY - 10 YEAR

T_c TOTAL AREA CA

3.32

1.99

1.51

0.77

0.54

0.76

SYSTEM

(ac)

1.43 5.90 7.24

0.78 5.00 7.24

0.59 5.00 7.24

2.79 | 11.70 | 7.24

1.61 10.30 7.24

0.62 8.50 7.24

0.44 7.50 7.24

0.10 5.00 7.24

LOCAL

0.96

0.73

0.12

0.47

0.74

0.36

0.12

0.76

(ac)

5.00

5.00

5.00

5.00

5.00

0.78 5.00

0.10 5.00

0.39 5.00

0.19 5.00

0.62 5.00

0.38

0.60

0.29

0.10

STRUCTURE LOCAL C INLET AREA CA

0.81

0.81

0.81

0.81

102

303

304

306

308

403

LOCAL SYSTEM LOCAL SYSTEM

7.24 5.63

(cfs)

9.97

9.63

7.48

2.87

0.97

INTENSITY INTENSITY Q₁₀

0.62 5.00 7.24 7.24 4.46 4.46

•						N A H	941 W 141ST TERR	A LICENSED MISS
	DRAWING INFO.	DRS	TPW		08/28/2019		19CO10008	
	DR/	BY DATE DRAWN BY:	DRS 9/20/19 CHECK BY:	LICENSE NO.	DATE:	FIELD BOOK:	JOB NUMBER: 19CO10008	
		DATE	9/20/19					
		ВУ	DRS					2019
	SNOISI	CRIPTION	ITY COMMENTS					IDERSON ENGINEERING, INC. 2019

	\				
		REVISIONS		DR/	DRAWIN
SUMMII ORCHARDS LOI 4B	NO.	DESCRIPTION	BY DATE	DATE DRAWN BY:	DR
FINAL DEVELOPMENT PLAN		REVISIONS PER CITY COMMENTS DI	DRS 9/20/19	9/20/19 CHECK BY:	TP\
NW CHIPMAN RD & NW WARD RD				LICENSE NO.	
				DATE:	08/;
				FIELD BOOK:	
STORMWATER CALCULATIONS				JOB NUMBER: 190	190
		© COPYRIGHT ANDERSON ENGINEERING, INC. 2019			

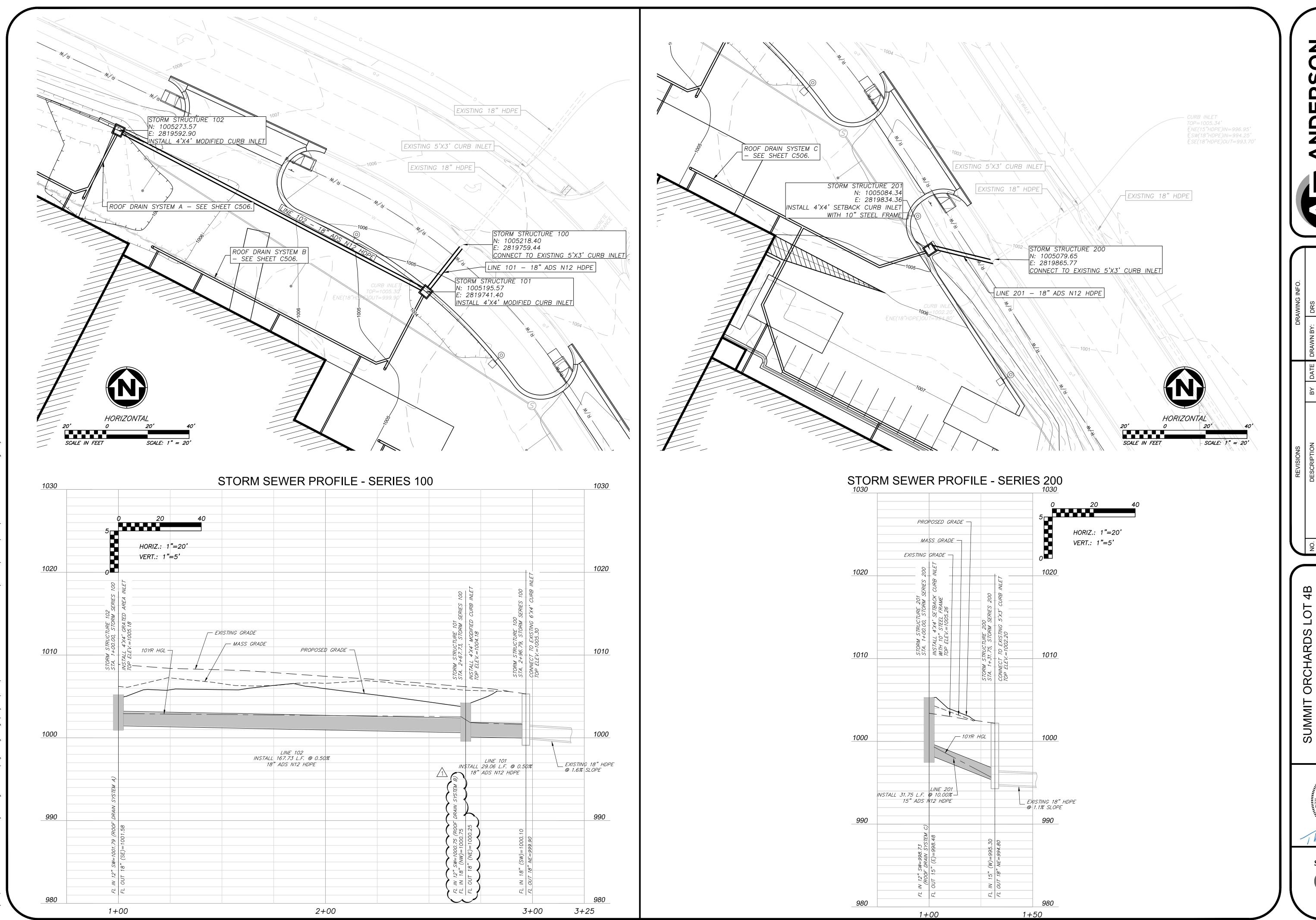
			2019	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	
19CO10	JOB NUMBER: 19CO100				
	FIELD BOOK:				
08/28/20	DATE:				
	LICENSE NO.				
TPW	DRS 9/20/19 CHECK BY:	9/20/19	DRS	REVISIONS PER CITY COMMENTS	7
DRS	BY DATE DRAWN BY:	DATE	ВУ	DESCRIPTION	NO.
DRAWING IN	'AO			REVISIONS	

PIPE	U/S INVERT	D/S INVERT	PIPE LENGTH	PIPE SLOPE	PIPE SIZE	MANNING'S	DESIGN Q ₁₀	CAPACITY FLOW	DESIGN VELOCITY	HGL UP	HGL DN	STRUCTURE	INLET LOCATION	PEAK FLOW	INTERCEPTED FLOW (cfs)		INLET EFFICIENC
	(ft)	(ft)	(ft)	(%)	(in)	"	(cfs)	(cfs)	(ft/s)	(ft)	(ft)		200/11011	(cfs)	1 2000 (010)	(cfs)	(%)
INE 101	1000.25	1000.10	29.06	0.50	18	0.012	9.97	8.17	5.64	1001.82	1001.60	101	Sag	4.69	4.69	0.00	100
LINE 102	1001.58	1000.75	167.73	0.50	18	0.012	5.63	8.00	3.28	1002.92	1002.56	102	Sag	5.63	5.63	0.00	100
LINE 201	998.48	995.30	31.75	10.01	15	0.012	4.28	22.14	9.42	999.32	995.67	201	On Grade	4.28	3.42	0.86	80
INE 301	997.51	997.14	37.74	0.98	24	0.012	15.95	24.26	7.42	998.95	998.32	301	Sag	0.70	0.70	0.00	100
INE 302	998.53	997.51	104.04	0.98	24	0.012	15.55	24.26	6.47	999.95	998.95	302	Sag	2.76	2.76	0.00	100
INE 303	1000.05	999.03	204.94	0.50	24	0.012	9.63	17.29	5.52	1001.16	1000.10	303	Sag	2.81	2.81	0.00	100
INE 304	1001.75	1000.75	199.40	0.50	18	0.012	7.48	8.06	5.17	1002.90	1001.89	304	Sag	4.34	4.34	0.00	100
LINE 305	1002.73	1001.95	155.02	0.50	18	0.012	3.96	8.07	3.56	1003.49	1003.10	305	Sag	1.35	1.35	0.00	100
INE 306	1003.48	1002.73	150.00	0.50	15	0.012	2.87	4.95	3.94	1004.16	1003.49	306	Sag	2.11	2.11	0.00	100
LINE 307	1004.08	1003.98	21.50	0.50	12	0.012	0.97	2.63	3.09	1004.50	1004.40	307	Sag	0.35	0.35	0.00	100
LINE 308	1004.89	1004.28	121.42	0.50	12	0.012	0.70	2.73	2.90	1005.24	1004.63	308	Sag	0.70	0.70	0.00	100
LINE 403	1002.65	1002.46	38.58	0.50	18	0.012	4.46	7.98	4.61	1003.46	1003.26	403	Sag	4.46	4.46	0.00	100

				HYDR	ROLOGY - 100 Y	'EAR											PI	PE HYDRAU	LICS - 100 YE	AR						INLE	ETHYDRA	ULICS - 100 YE	AR	
		L	.OCAL			STEM		LOCAL	SYSTEM	LOCAL	SYSTEM			U/S D/	S INVERT	PIPE	PIPE		MANNING'S	DESIGN		DESIGN		HGL DN		INLET	PEAK	INTERCEPTED	BYPASS	
STRUCTURE	LOCAL C	INLET AREA (ac)	CA (ac)	T _c (min)	TOTAL AREA	CA (ac)	T _c (min)	INTENSITY (in/hr)	INTENSITY (in/hr)	Q ₁₀₀ (cfs)	Q ₁₀₀ (cfs)	PIP	E IN	VERT	(fl)	LENGTH	SLOPE	(in)	n	Q ₁₀₀ (cfs)	FLOW (cfs)	VELOCITY (ft/s)	(ft)	(ff)	STRUCTURE	LOCATION	FLOW (cfs)	FLOW (cfs)	FLOW (cfs)	EFFICIENCY (%)
		(40)	(40)	(11111)	(ac)	(40)	(11111)	(117111)	(117/111)	(013)	(013)			(11)	(11)	(11)	(70)	(111)		(013)	(013)	(11/3)	(10)	(it)			, ,			
101	0.81	0.80	0.65	5.00	1.76	1.43	5.60	9.83	9.61	6.37	13.70	LINE	101 10	000.25	1000.10	29.06	0.50	18	0.012	13.70	8.17	7.75	1002.02	1001.60	101	Sag	6.37	6.37	0.00	100
102	0.81	0.96	0.78	5.00	0.96	0.78	5.00	9.83	9.83	7.65	7.65	LINE	102 10	001.58	1000.75	167.73	0.50	18	0.012	7.65	8.00	4.33	1004.16	1003.41	102	Sag	7.65	7.65	0.00	100
201	0.81	0.73	0.59	5.00	0.73	0.59	5.00	9.83	9.83	5.81	5.81	LINE	201 9	98.48	995.30	31.75	10.01	15	0.012	5.81	22.14	10.43	999.46	995.74	201	On Grade	5.81	4.24	1.57	73
301	0.81	0.12	0.10	5.00	3.44	2.79	9.90	9.83	8.38	0.96	23.35	LINE	301 9	97.51	997.14	37.74	0.98	24	0.012	23.35	24.26	8.47	999.23	998.72	301	Sag	0.96	0.96	0.00	100
302	0.81	0.47	0.38	5.00	3.32	2.69	9.70	9.83	8.44	3.74	22.69	LINE	302 9	98.53	997.51	104.04	0.98	24	0.012	22.69	24.26	7.95	1000.23	999.23	302	Sag	3.74	3.74	0.00	100
303	0.81	0.48	0.39	5.00	1.99	1.61	8.90	9.83	8.64	3.82	13.92	LINE	303 10	000.05	999.03	204.94	0.50	24	0.012	13.92	17.29	6.12	1001.41	1000.39	303	Sag	3.82	3.82	0.00	100
304	0.81	0.74	0.60	5.00	1.51	1.22	8.40	9.83	8.78	5.89	10.74	LINE	304 10	001.75	1000.75	199.40	0.50	18	0.012	10.74	8.06	6.08	1004.03	1002.25	304	Sag	5.89	5.89	0.00	100
305	0.81	0.23	0.19	5.00	0.77	0.62	7.60	9.83	9.00	1.83	5.61	LINE	305 10	002.73	1001.95	155.02	0.50	18	0.012	5.61	8.07	3.18	1004.69	1004.31	305	Sag	1.83	1.83	0.00	100
306	0.81	0.36	0.29	5.00	0.54	0.44	6.90	9.83	9.22	2.87	4.03	LINE	306 10	003.48	1002.73	150.00	0.50	15	0.012	4.03	4.95	3.29	1005.42	1004.93	306	Sag	2.87	2.87	0.00	100
307	0.81	0.06	0.05	5.00	0.18	0.15	6.70	9.83	9.28	0.48	1.35	LINE	307 10	004.08	1003.98	21.50	0.50	12	0.012	1.35	2.63	3.42	1005.57	1005.54	307	Sag	0.48	0.48	0.00	100
308	0.81	0.12	0.10	5.00	0.12	0.10	5.00	9.83	9.83	0.96	0.96	LINE	308 10	004.89	1004.28	121.42	0.50	12	0.012	0.96	2.73	3.17	1005.66	1005.59	308	Sag	0.96	0.96	0.00	100
403	0.81	0.76	0.62	5.00	0.76	0.62	5.00	9.83	9.83	6.05	6.05	LINE	403 10	002.65	1002.46	38.58	0.50	18	0.012	6.05	7.98	4.96	1003.63	1003.44	403	Sag	6.05	6.05	0.00	100

SHEET NUMBER

THOMAS
P. WOOTEN
NUMBER
E-2000150081





 REVISIONS

 DESCRIPTION
 BY
 DATE
 DRAWN BY:
 DRS

 NS PER CITY COMMENTS
 DRS
 9/20/19
 CHECK BY:
 TPW

 NS PER CITY COMMENTS
 DRS
 1/1CENSE NO.
 TPW

 NS PER CITY COMMENTS
 NS
 1/1CENSE NO.
 TPW

 NS PER CITY COMMENTS
 NS
 1/1CENSE NO.
 NS/28/2019

 NS NS
 NS
 NS/28/2019
 NS/28/2019

 NS NS
 NS
 NS/28/2019
 NS/28/2019

 NS NS
 NS/28/2019
 NS/28/2019
 NS/28/2019

SUMMIT ORCHARDS LOT 4B
FINAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086

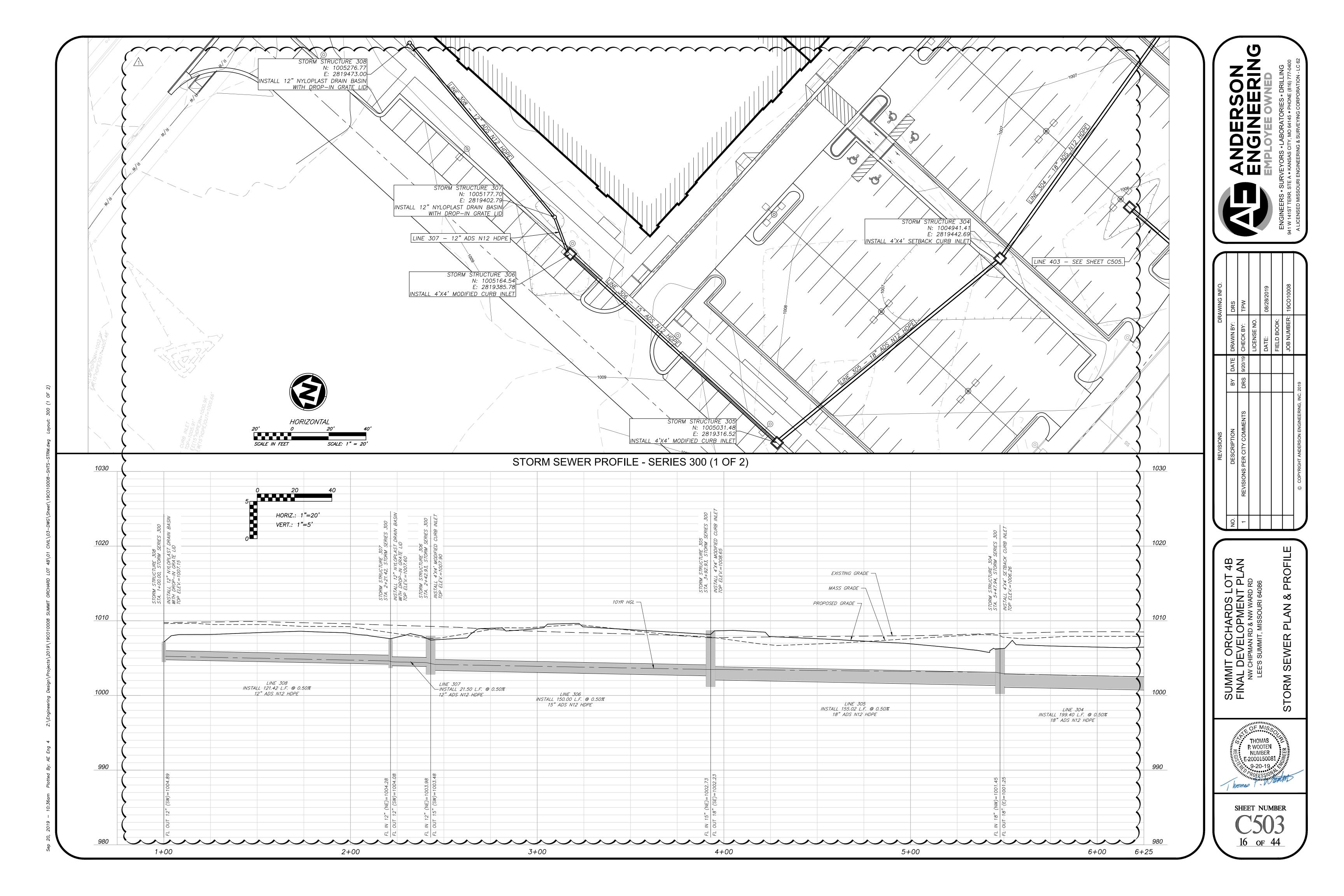
TORM SEWER PLAN & PROFILE

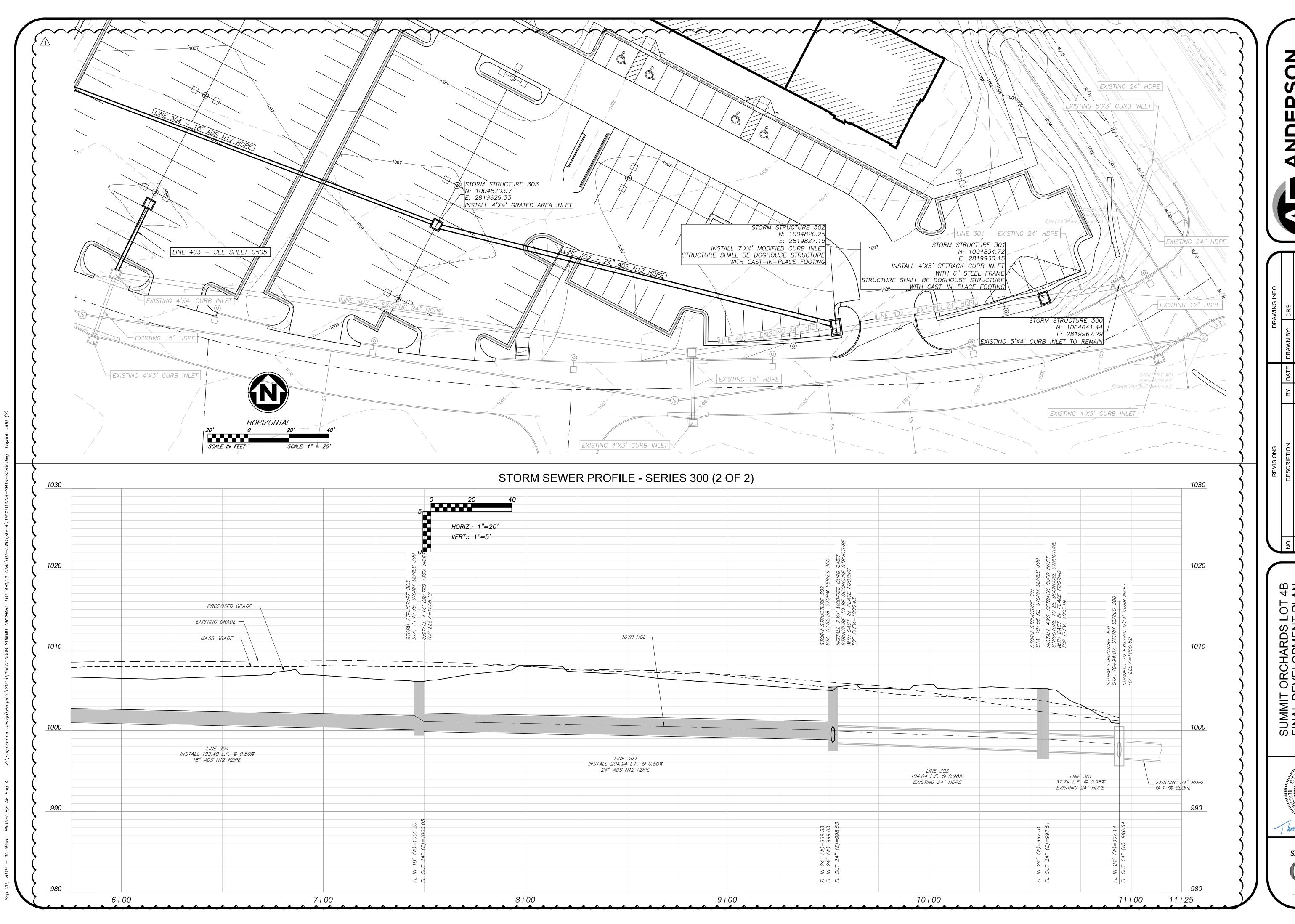
THOMAS
P. WOOTEN
NUMBER
E-2000150081
9-20-19

SHEET NUMBER

502

15 OF 44







Г	REVISIONS			AO	DRAWING INFO.
	DESCRIPTION	ВУ	DATE	DATE DRAWN BY:	DRS
	REVISIONS PER CITY COMMENTS	DRS	9/20/19	DRS 9/20/19 CHECK BY:	TPW
				LICENSE NO.	
				DATE:	08/28/2019
				FIELD BOOK:	
				JOB NUMBER: 19CO10008	19CO10008
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

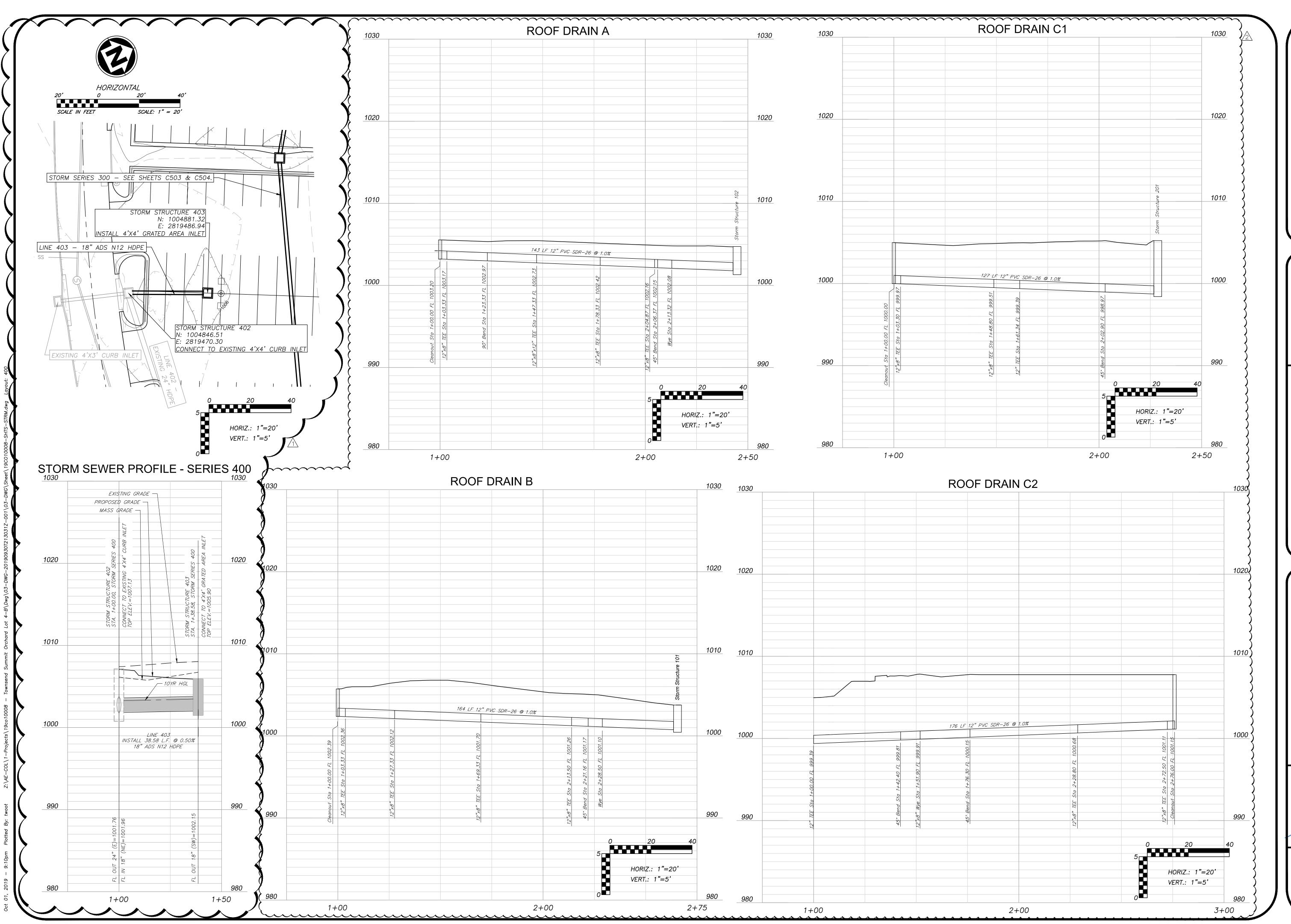
SUMMIT ORCHARDS LOT 4B
FINAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086
STORM SEWER PLAN & PROFIL

THOMAS
P. WOOTEN
NUMBER
E-2000150081
9-20-19

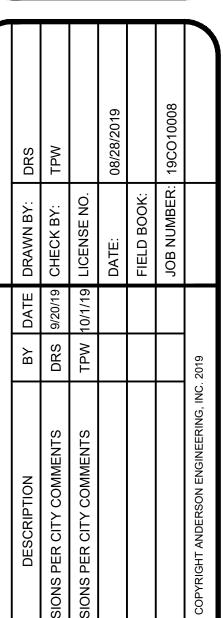
SHEET NUMBER

504

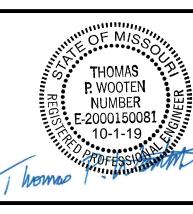
17 OF 44







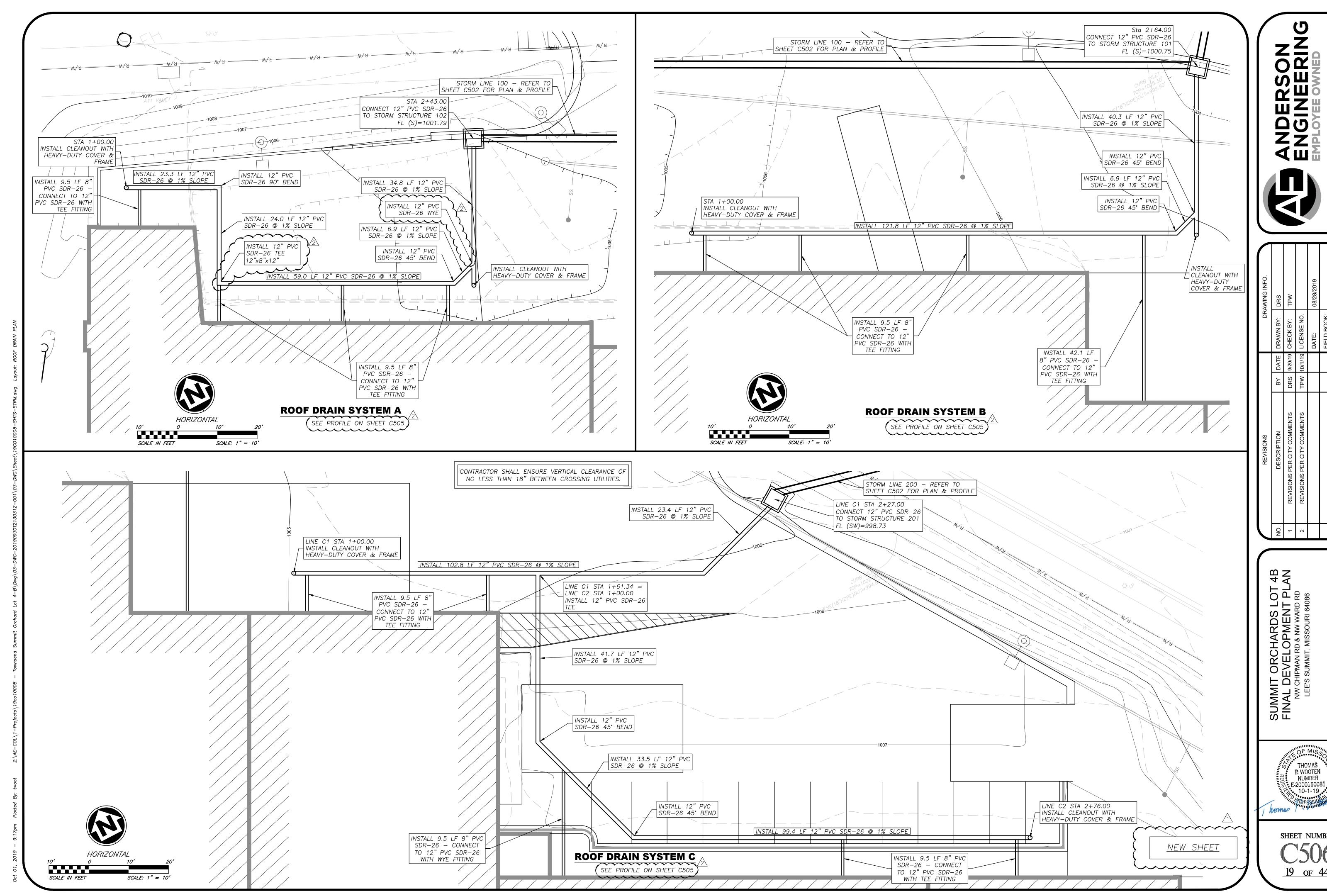
SUMMIT ORCHARDS LOT 4B
FINAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086
STORM SEWER PLAN & PROFILE

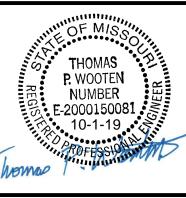


SHEET NUMBER

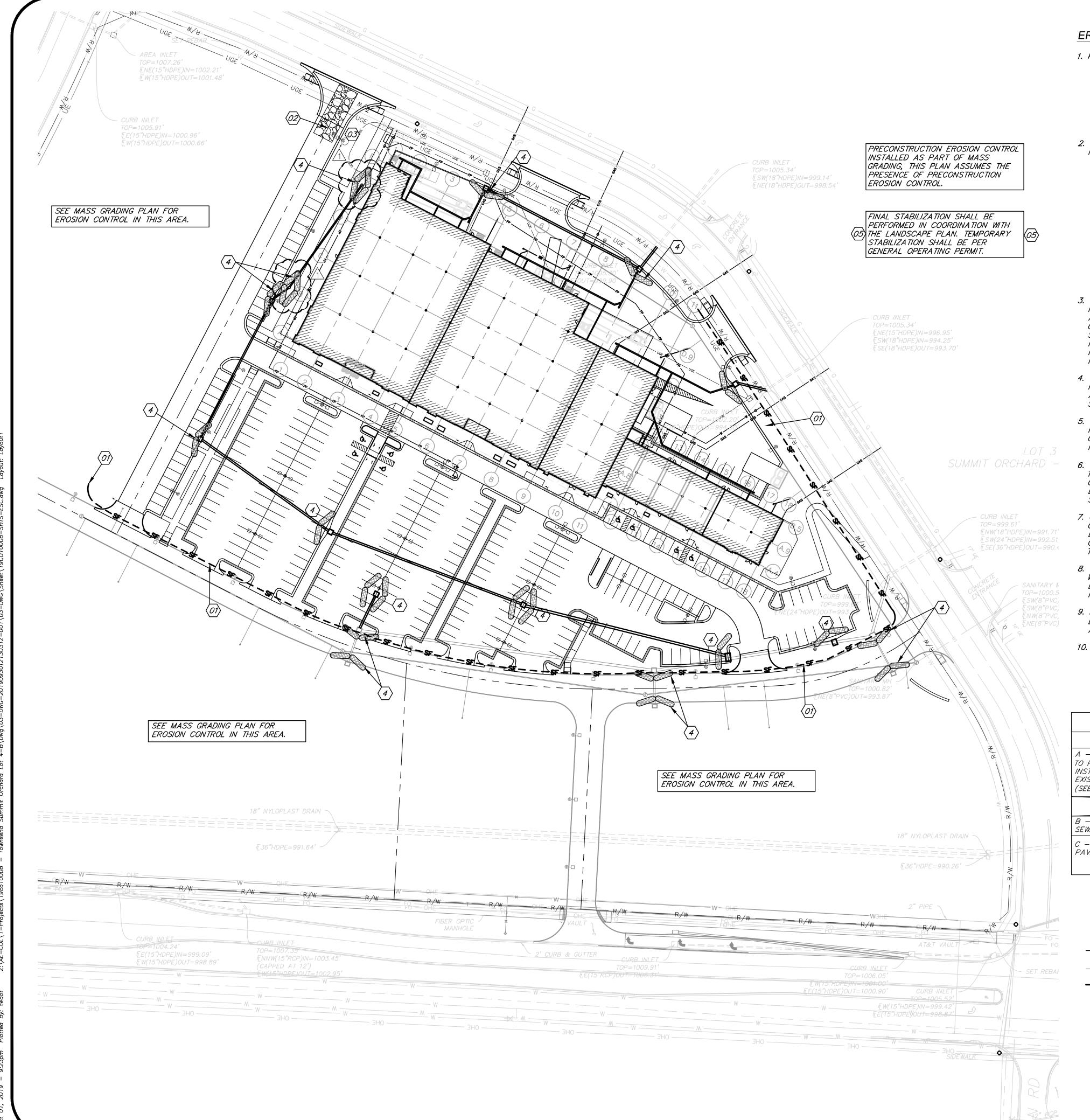
505

18 OF 44





SHEET NUMBER



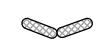
EROSION AND SEDIMENT CONTROL GENERAL NOTES

- 1. PRIOR TO LAND DISTURBANCE ACTIVITIES, THE CONTRACTOR SHALL: *DELINEATE THE OUTER LIMITS OF ANY NATURAL STREAM CORRIDOR DESIGNATED WITH CONSTRUCTION FENCING. • CONSTRUCT A STABILIZED ENTRANCE/PARKING/DELIVERY AREA.
 - INSTALL PERIMETER CONTROLS AND REQUEST THE INSPECTION OF THE PRE-CONSTRUCTION EROSION AND SEDIMENT CONTROL MEASURES DESIGNATED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. LAND DISTURBANCE WORK SHALL NOT PROCEED UNTIL THERE IS A SATISFACTORY INSPECTION. ·IDENTIFY THE LIMITS OF CONSTRUCTION ON THE GROUND WITH EASILY RECOGNIZABLE INDICATIONS SUCH AS CONSTRUCTION STAKING, CONSTRUCTION FENCING, AND PLACEMENT OF PHYSICAL BARRIERS OR OTHER MEANS ACCEPTABLE TO THE CITY INSPECTOR AND IN CONFORMANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE KC-APWA SPECIFICATIONS SECTION 2150, INCLUDING BUT NOT LIMITED TO:
- THE CONTRACTOR SHALL SEED, MULCH, OR OTHERWISE STABILIZE ANY DISTURBED AREA WHERE THE LAND DISTURBANCE ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS. • THE CONTRACTOR SHALL PERFORM INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES AT THE
- FOLLOWING MINIMUM INTERVALS:
- O DURING ACTIVE CONSTRUCTION PHASES AT LEAST ONCE PER WEEK O DURING PERIODS OF INACTIVITY — AT LEAST ONCE PER 14 DAYS
- O AFTER EACH RAINFALL EVENT OF ½ INCH OR MORE WITHIN 24 HOURS OF THE RAIN EVENT • THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG INCLUDING THE INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS AS TO THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL MEASURES, ACTIONS NECESSARY TO CORRECT DEFICIENCIES, WHEN THE DEFICIENCIES WERE CORRECTED, AND THE SIGNATURE OF THE PERSON PERFORMING THE INSPECTION. THE INSPECTION LOG SHALL BE AVAILABLE FOR REVIEW BY THE REGULATORY AUTHORITY.
- THE CONTRACTOR SHALL HAVE THE EROSION AND SEDIMENT CONTROL PLAN ROUTINELY UPDATED TO SHOW ALL CHANGES AND AMENDMENTS TO THE PLAN. A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE KEPT ON SITE AND MADE AVAILABLE FOR REVIEW BY THE REGULATORY AUTHORITY.
- 3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL SEEDING MUST CONFORM TO DIVISION II—CONSTRUCTION AND MATERIALS SPECIFICATION—SECTION 2150 PUBLISHED BY THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION DATED MAY 21, 2008. PERMANENT SEEDING SHALL BE INSTALLED AFTER COMPLETION OF FINAL GRADING EXCEPT WHEN SEEDING WILL OCCUR OUTSIDE OF THE ACCEPTABLE SEEDING SEASON AS SPECIFIED IN SECTION 2150. WHEN TEMPORARY SEEDING IS INSTALLED, PERMANENT SEEDING SHALL BE INSTALLED AT THE NEXT SEEDING SEASON. TEMPORARY SEEDING SHALL NOT BE USED AS A STABILIZATION MEASURE FOR A PERIOD EXCEEDING 12 MONTHS. THE PERMIT WILL NOT BE CLOSED UNTIL PERMANENT SEEDING HAS BEEN ESTABLISHED TO A MINIMUM OF 70% DENSITY OVER THE ENTIRE DISTURBED AREA.
- 4. THE CONTRACTOR SHALL MAINTAIN INSTALLED EROSION AND SEDIMENT CONTROL DEVICES IN A MANNER THAT PRESERVES THEIR EFFECTIVENESS FOR PREVENTING SEDIMENT FROM LEAVING THE SITE OR ENTERING A SENSITIVE AREA SUCH AS A NATURAL STREAM CORRIDOR, AREAS OF THE SITE INTENDED TO BE LEFT UNDISTURBED, A STORM SEWER, OR AN ON-SITE DRAINAGE CHANNEL.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EROSION AND SEDIMENT CONTROL FOR THE DURATION OF A PROJECT. IF THE CITY DETERMINES THAT THE BMPS IN PLACE DO NOT PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL AT ANY TIME DURING THE PROJECT, THE CONTRACTOR SHALL INSTALL ADDITIONAL OR ALTERNATE MEASURES THAT PROVIDE EFFECTIVE CONTROL.
- 6. CONCRETE WASH OR RINSE WATER FROM CONCRETE MIXING EQUIPMENT, TOOLS AND/OR READY-MIX TRUCKS, TOOLS, ETC. MAY NOT BE DISCHARGED INTO OR BE ALLOWED TO RUN DIRECTLY INTO ANY EXISTING WATER BODY OR STORM INLET. ONE OR MORE LOCATIONS FOR CONCRETE WASH OUT WILL BE DESIGNATED ON SITE, SUCH THAT DISCHARGES DURING CONCRETE WASHOUT WILL BE CONTAINED IN A SMALL AREA WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE.
- 7. CHEMICALS OR MATERIALS CAPABLE OF CAUSING POLLUTION MAY ONLY BE STORED ONSITE IN THEIR ORIGINAL CONTAINER. MATERIALS STORED OUTSIDE MUST BE IN CLOSED AND SEALED WATER-PROOF CONTAINERS AND LOCATED OUTSIDE OF DRAINAGE WAYS OR AREAS SUBJECT TO FLOODING. LOCKS AND OTHER MEANS TO PREVENT OR REDUCE VANDALISM SHALL BE USED. SPILLS WILL BE REPORTED AS REQUIRED BY LAW AND IMMEDIATE ACTIONS TAKEN TO CONTAIN THEM.
- 8. SILT FENCES AND EROSION CONTROL BMPS WHICH ARE SHOWN ALONG THE BACK OF CURB MUST BE INSTALLED WITHIN TWO WEEKS OF CURB BACKFILL AND PRIOR TO PLACEMENT OF BASE ASPHALT. EXACT LOCATIONS OF THESE EROSION CONTROL METHODS MAY BE FIELD ADJUSTED TO MINIMIZE CONFLICTS WITH UTILITY CONSTRUCTION; HOWEVER, ANTICIPATED DISTURBANCE BY UTILITY CONSTRUCTION SHALL NOT DELAY INSTALLATION.
- 9. INTERIOR SILT FENCE AS NECESSARY DURING CONSTRUCTION. PORTIONS MAY BE LIMITED AS VEGETATION IS ESTABLISHED AND HARDSCAPE IS INSTALLED. ENTIRE LENGTH MAY BE INSTALLED AT THE CONTRACTOR'S OPTION TO AID IN STABILIZING SLOPES.
- 10. PRIVATE EROSION & SEDIMENT CONTROL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH NPDES SCHEDULE AND REQUIREMENTS. AFTER INSPECTIONS, PROVIDE THE CITY OF LEE'S SUMMIT WITH REPORTS AND DOCUMENTATION IF REQUESTED.

	EROS	ION/SEDIMENT CONTROL	L STAGING	CHART
PROJECT STAGE	BMP PLAN REF NO.	BMP DESCRIPTION	REMOVE AFTER STAGE:	NOTES:
A - PLACE BMP'S PRIOR TO PAVING/UTILITY	(01)	PERIMETER SILT FENCE	В	PLACE AS SHOWN ON PLAN.
INSTALLATION. ALL EXISTING ERC IN PLACE	(02)	CONSTRUCTION ENTRANCE & STAGING AREA	С	PLACE AS SHOWN ON PLAN.
(SEE MASS GRADING)	<i>(03</i>)	CONCRETE WASH-OUT	С	PLACE AS SHOWN ON PLAN.
B — AFTER UTILITY STORM SEWER CONSTRUCTION	<i>(04)</i>	STORM INLET PROTECTION	С	PLACE AS SHOWN ON PLAN.
C — FINAL GRADING, PAVING & LANDSCAPING	<i>(05)</i>	FINAL SEEDING, SOD AND LANDSCAPING	N/A	SILT FENCING & INLET PROTECT MAY BE REMOVED ONCE SEED & SODDED AREAS ARE ESTABLISHED ON 80% OF SITE.

LEGEND

— 934 — PROPOSED CONTOUR ---- 934---- EXISTING CONTOUR ----- SEDIMENT FENCE



INLET FILTER BAGS



CONSTRUCTION ENTRANCE

FINAL SEEDING (SOD &/OR LANDSCAPING)



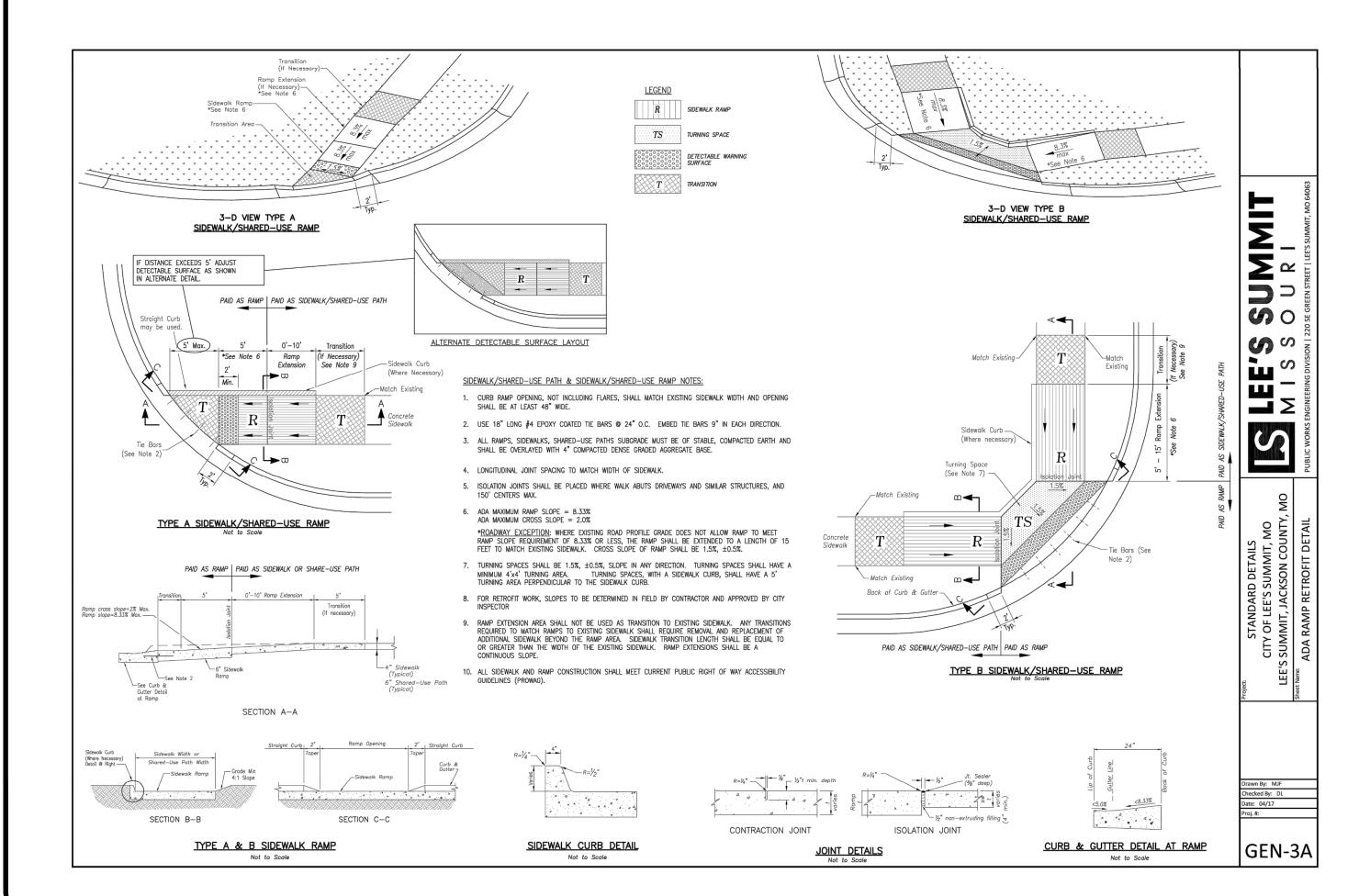


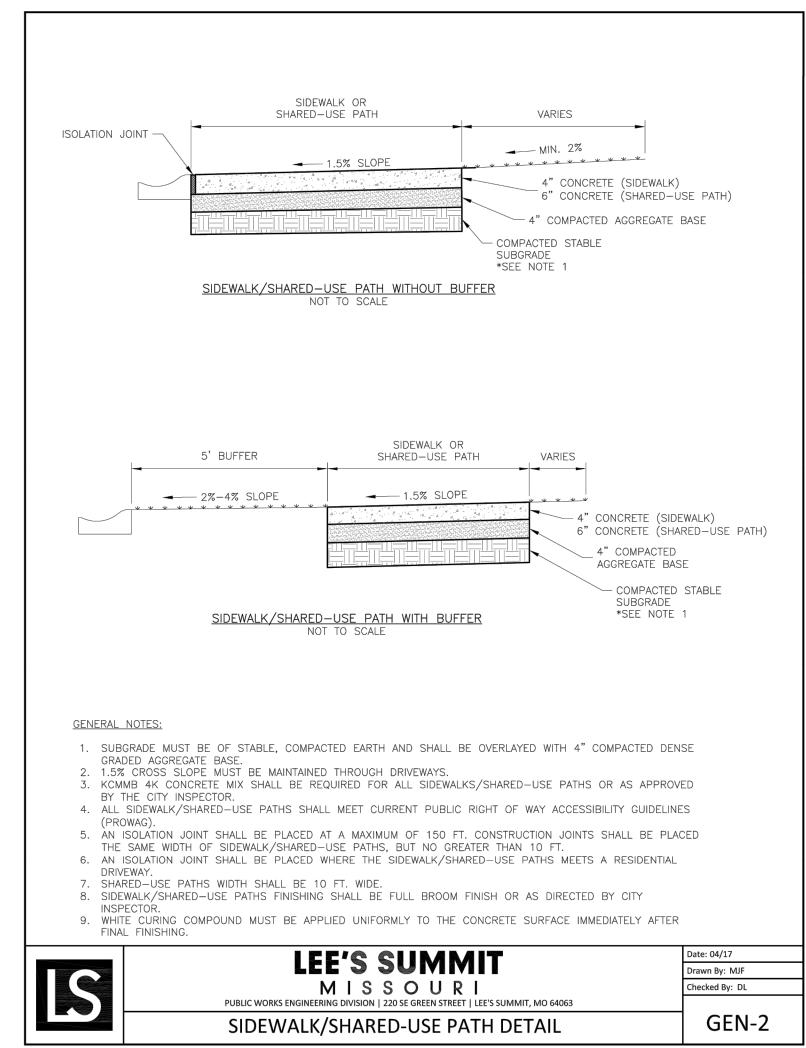
	REVISIONS			DR	DRAWING INFO.
NO.	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	DRS
1	REVISIONS PER CITY COMMENTS	DRS	9/20/19	DRS 9/20/19 CHECK BY:	Mdl
				LICENSE NO.	
				DATE:	08/28/2019
				FIELD BOOK:	
				JOB NUMBER: 19CO10008	19CO10008
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

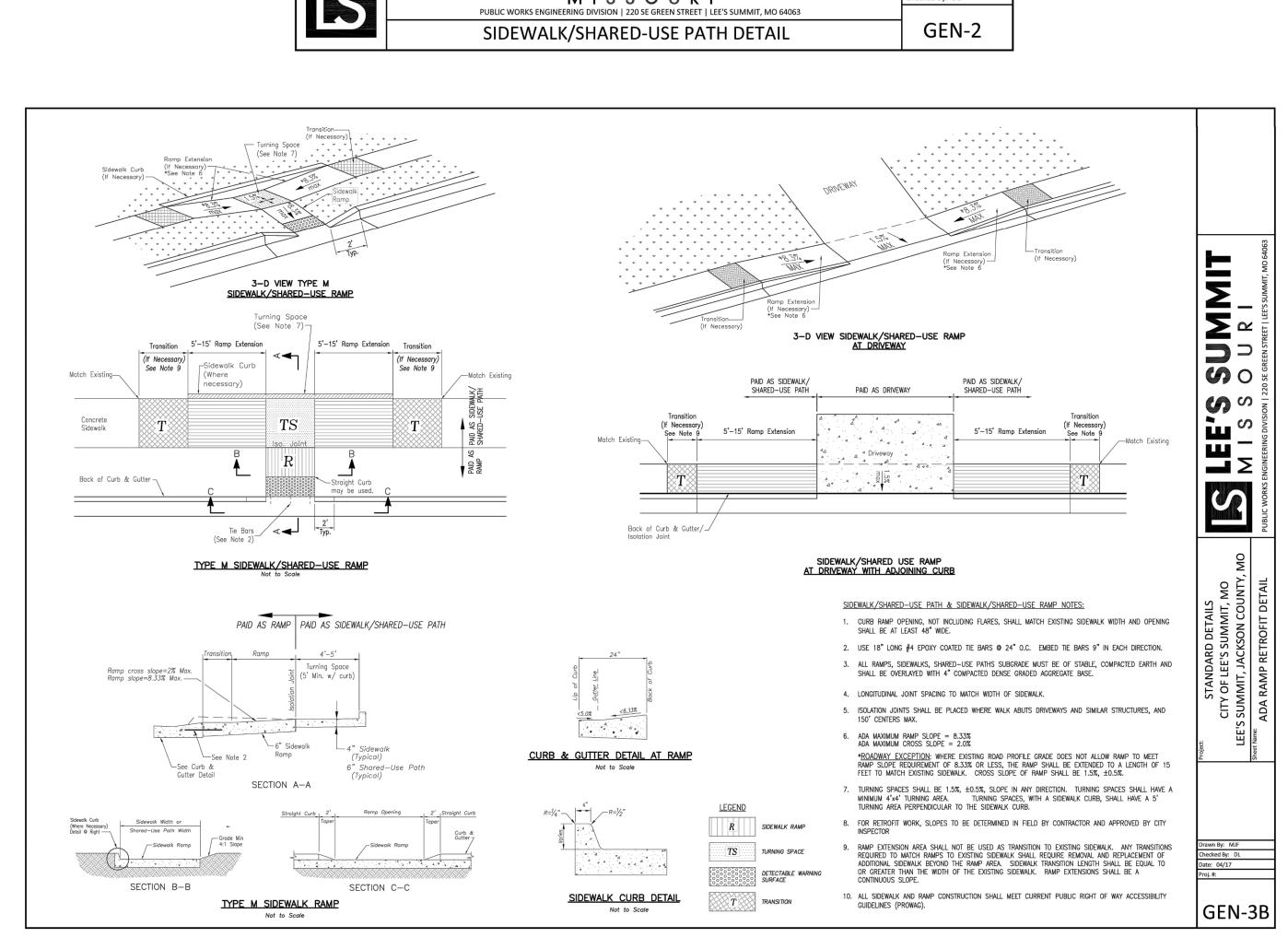
SUMMIT FINAL DI

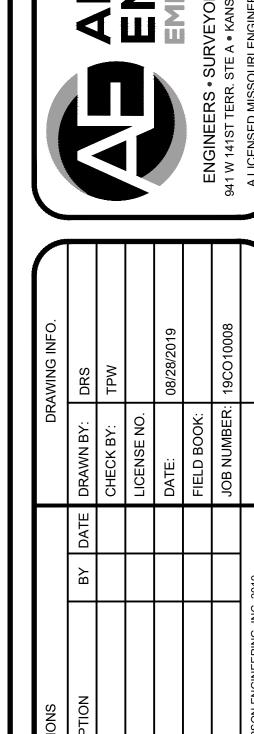
P. WOOTEN NUMBER

SHEET NUMBER









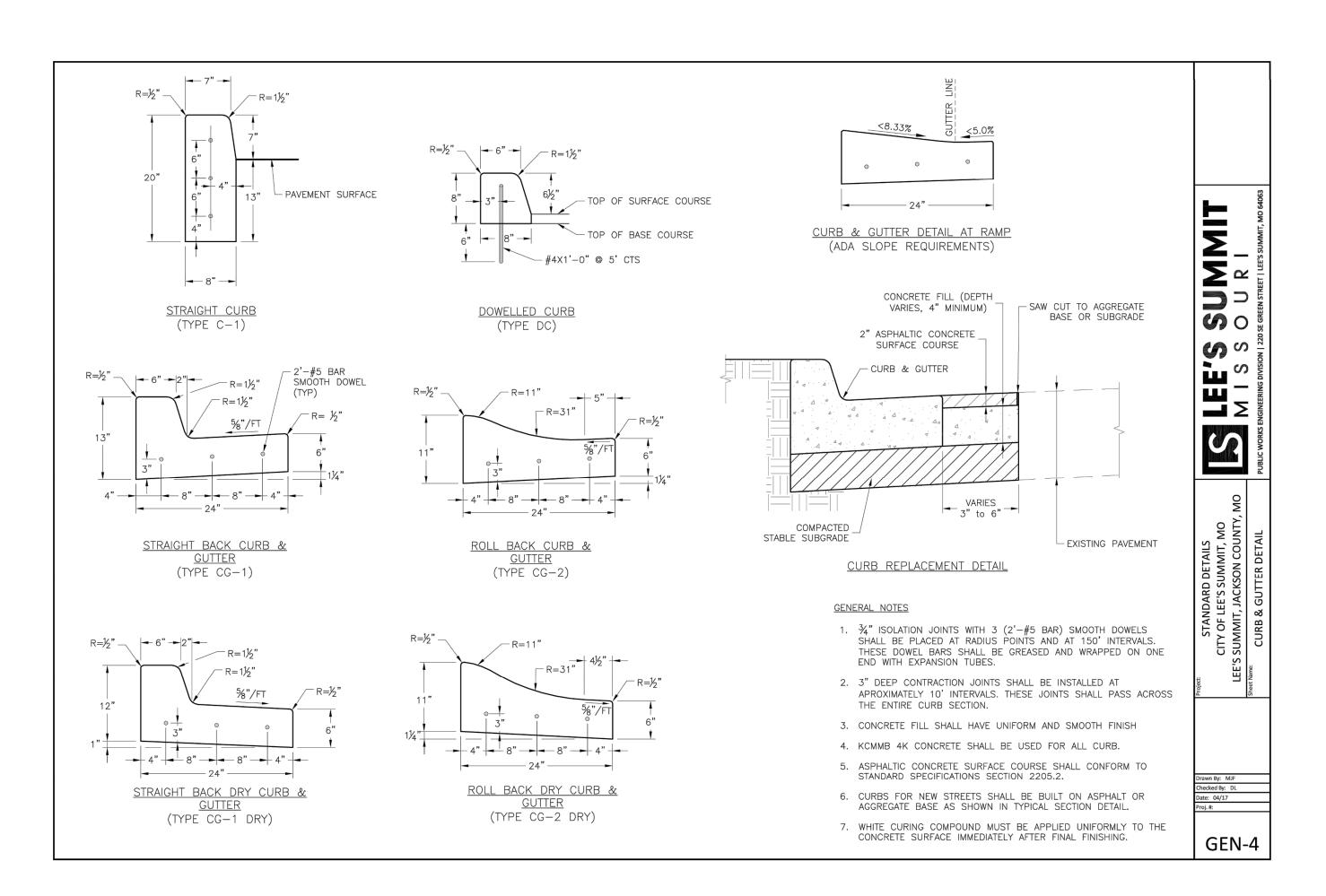
S LOT 4B
ENT PLAN
WARD RD
RI 64086

SUMMIT ORCHARDS
FINAL DEVELOPMEI
NW CHIPMAN RD & NW W/
LEE'S SUMMIT, MISSOUR

THOMAS
P. WOOTEN
NUMBER
E-2000150081
9-20-19
ROFESSION

SHEET NUMBER

700
21 OF 44



30" R1-1 STOP SIGN

<u>5/16" NUT & BOLT</u>

1 3/4" X 1 3/4" X 14 GA. SIGN POST

2 1/4" X 2 1/4" X 12 GA. ANCHOR SLEEVE

2" X 2" X 36" X 12 GA. SIGN POST ANCHOR

SIGN POST

FINISH GRADE

2 1/2" X 5/16" ZINC PLATED HEX HEAD BOLT

5/16" FLAT PLASTIC WASHER

5/16" ZINC PLATED WASHER

30" R1-1 STOP SIGN

PAVEMENT INSTALLATION SEQUENCE

1. SIGN POST ANCHOR DRIVEN PARTIALLY INTO SUBGRADE USING A DRIVE CAP WITH SLEDGE OR POWER EQUPMENT PRIOR TO THE PLACEMENT OF THE PAVEMENT. 2. ANCHOR SLEEVE SLIPPED OVER ANCHOR AND DRIVEN INTO SUBGRADE TOGETHER WITH THE SIGN POST ANCHOR PRIOR TO THE PLACEMENT OF THE PAVEMENT. 3. INSERT SIGN POST INTO THE POST ANCHOR AND BOLT IN PLACE.

GROUND INSTALLATION SEQUENCE

1. SIGN POST ANCHOR DRIVEN PARTIALLY INTO THE GROUND USING A DRIVE CAP WITH SLEDGE OR POWER 2. ANCHOR SLEEVE SLIPPED OVER ANCHOR AND DRIVEN INTO THE GROUND TOGETHER WITH THE SIGN POST 3. INSERT SIGN POST INTO THE POST ANCHOR AND BOLT IN PLACE.

NOTE: IN ALL INSTALLATIONS THE FIRST HOLE ABOVE THE FINISHED GRADE LEVEL IN ALL THREE UNITS MUST BE IN LINE FOR INSERTION OF THE CORNER BOLT.

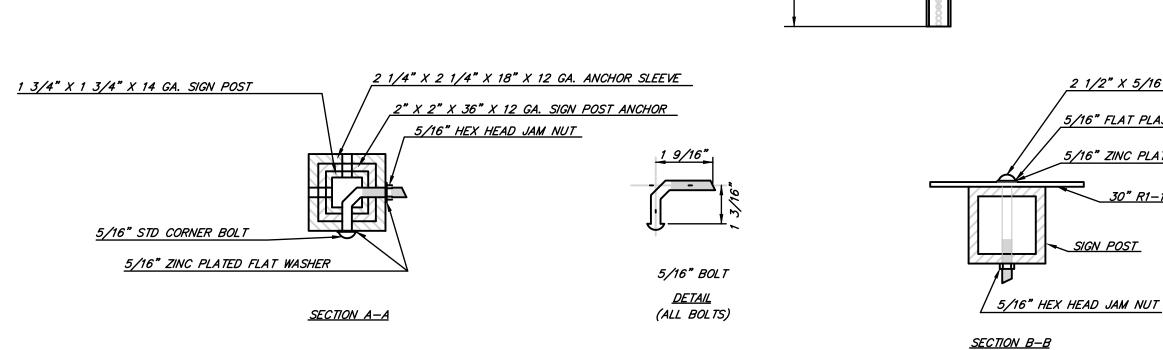
ALL CORNER BOLTS AND NUTS FOR FASTENING THE SIGNS AND SIGN POST ASSEMBLY AND ALL WASHERS SHALL COMPLY WITH APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS (LATEST EDITION) AND SHALL BE A SUBSIDARY ITEM.

MATERIAL REQUIREMENTS

SIGN POSTS, POST ANCHORS, AND POST ANCHOR SLEEVES: THE SIGN POSTS, POST ANCHORS, AND POST ANCHOR SLEEVES SHALL BE GALVANIZED FINISH HOT ROLLED CARBON STEEL ASTM A-446 GRADE A WITH A GALVANIZING COMFORMING TO ASTM A-525, DESIGNATION G-90. THE SIGN POST SHALL HAVE 7/16" DIA. HOLES AT 1" CENTERS ON ALL FOUR SIDES FOR TOTAL LENGTH OF POST.

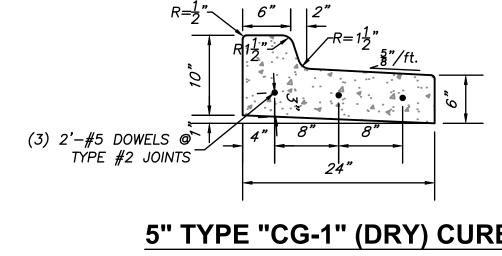
THE POST ANCHOR AND POST ANCHOR SLEEVE SHALL BE FURNISHED WITH THE BOLT HOLES ON ALL FOUR SIDES ALONG THE ENTIRE LENGTH.

ALL HOLES SHALL BE DRILLED OR PUNCHED AND ALL WELDS, CUTS, BURRS, AND SHARP EDGES ARE TO BE SMOOTHED OFF BEFORE APPLICATION OF FINISH.

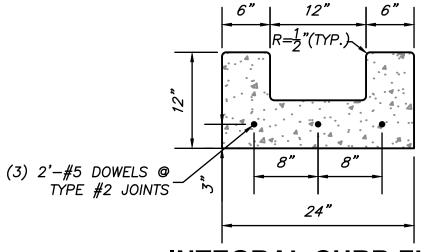


BREAKAWAY SIGN POST DETAIL

SCALE: N.T.S.

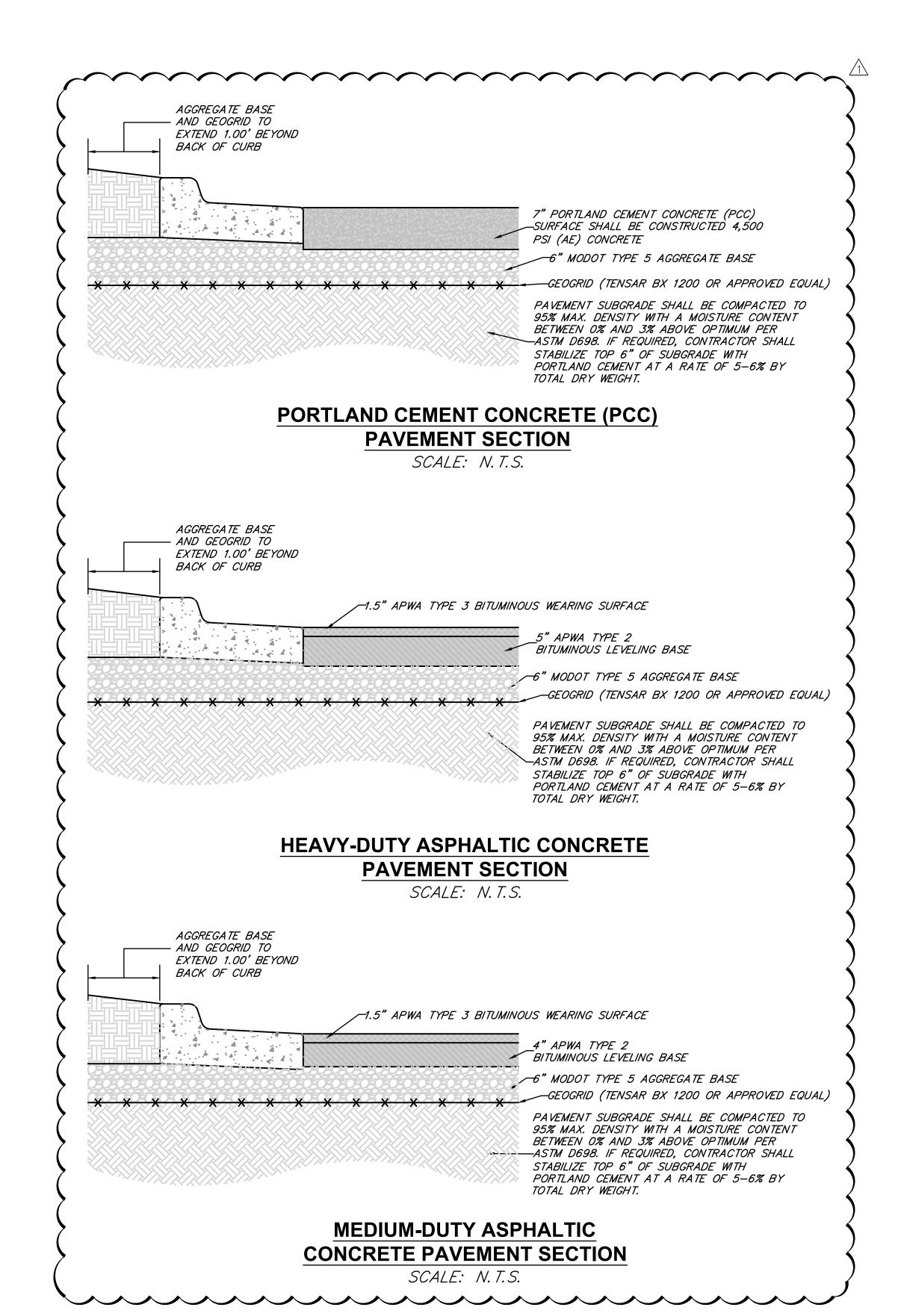


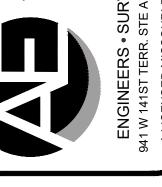
5" TYPE "CG-1" (DRY) CURB SCALE: N.T.S.



INTEGRAL CURB FLUME

SCALE: N.T.S.

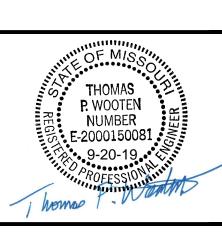




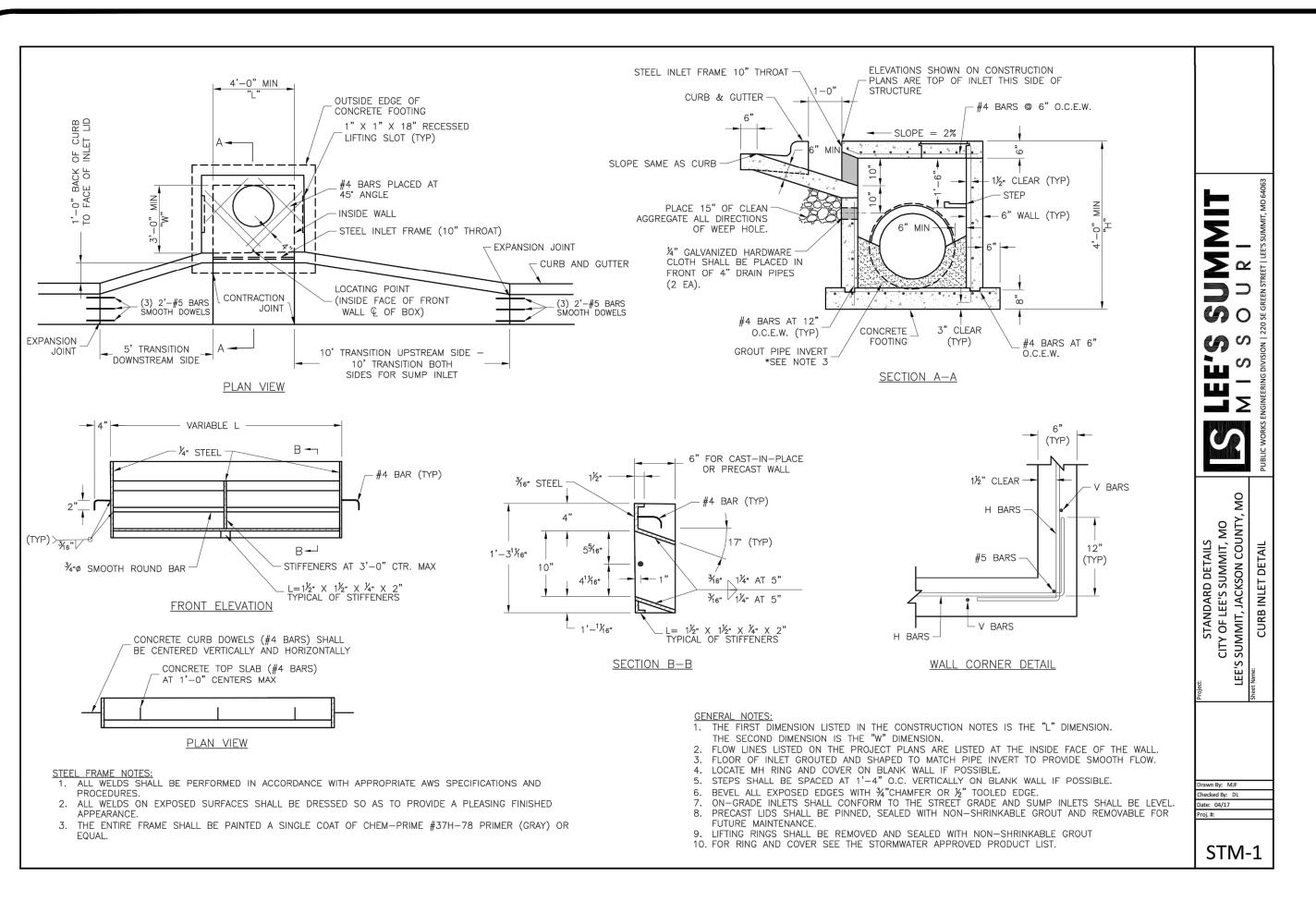
DRAWING INFO.	DRS	TPW		08/28/2019		CO10008	
DRAW	DATE DRAWN BY: DI	DRS 9/20/19 CHECK BY: TI	LICENSE NO.	DATE: 08	FIELD BOOK:	JOB NUMBER: 19CO10008	
	DATE	9/20/19					
	ВУ	DRS					2019
REVISIONS	DESCRIPTION	REVISIONS PER CITY COMMENTS					© COPYRIGHT ANDERSON ENGINEERING INC 2019
	NO.	1					

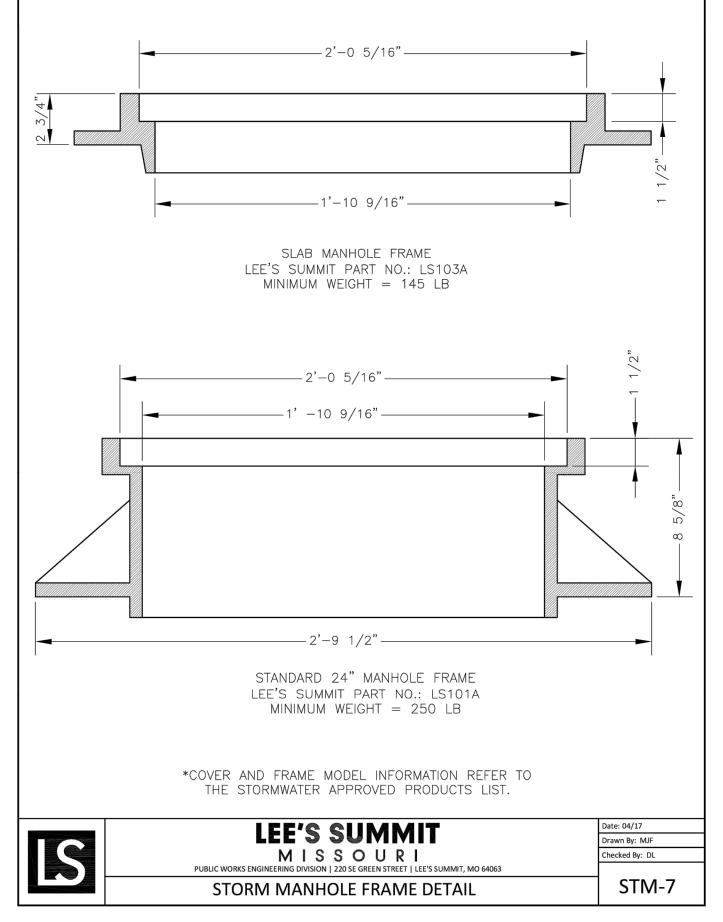
SUMMIT FINAL DE NW CHI LEE'S

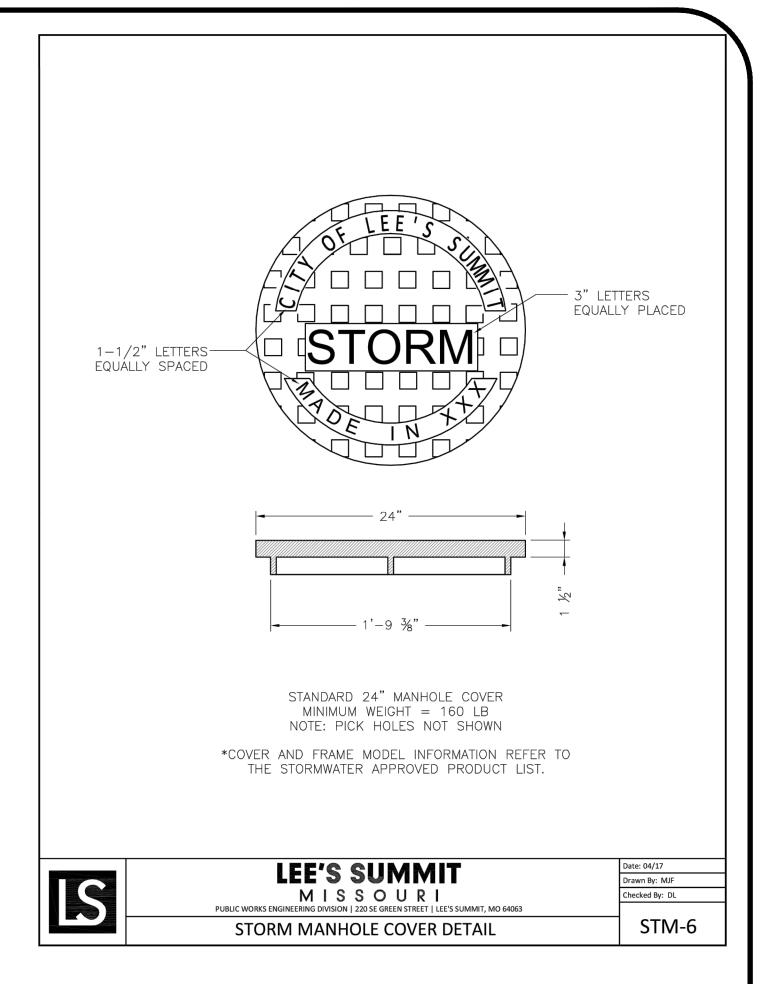
4 4



SHEET NUMBER





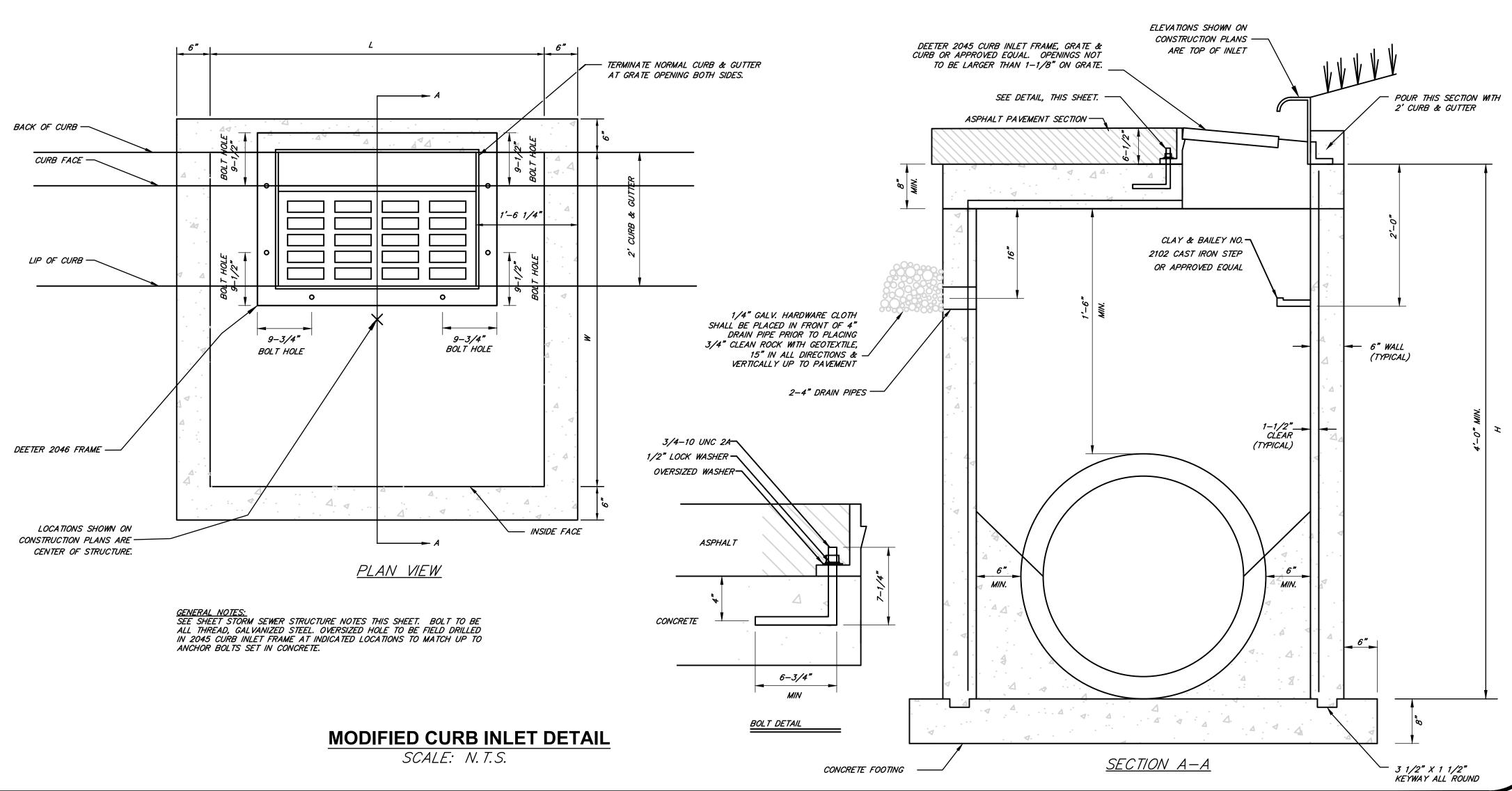




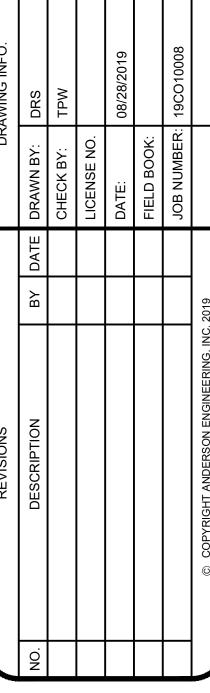
- 1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
- 2. FLOOR OF INLET SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERT TO PROVIDE SMOOTH FLOW.
- 3. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT SEALING COMPOUND, OR PREMOLDED EXPANSION JOINT FILLER.
- 4. STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
- 5. CAST IRON STEPS TO BE CLAY & BAILEY 2102 OR APPROVED EQUAL. STEEL CORE, PLASTIC COATED STEPS MAY BE USED (M.A. IND.,INC. NO. PS1-PF, PS2-PF, OR APPROVED EQUAL). STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY. THE DISTANCE FROM THE LAST STEP TO THE TOP OF CONCRETE INVERT SHOULD BE A MAXIMUM OF 24".
- 6. BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.
- SHOULD BE GRADED TO IMPOUND WATER TO A MINIMUM DEPTH OF 6" ABOVE INLET TOP.

ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL. FIELD INLETS

- 8. ALL STORM SEWER STRUCTURES SHALL BE PRECAST OR POURED IN PLACE. PRECAST SHOP DRAWINGS ARE TO BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION.
- 9. ALL CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, MISSOURI DEPARTMENT OF TRANSPORTATION, LATEST EDITION, AND SPECIAL PROVISIONS.
- 10. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
- 11. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 1/8" SHALL BE PERMITTED.
- 12. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- 13. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
- 14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- 15. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.
- 16. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
- 17. ALL CURB INLET TOPS ARE TO BE CONSTRUCTED AFTER FINAL CURB STRING LINE HAS BEEN APPROVED BY THE OWNER'S REPRESENTATIVE AND PRIOR TO CURB CONSTRUCTION.
- 18. RCP CONNECTIONS TO PRECAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
- 19. ALL STRUCTURES SHALL BE DESIGNED TO MEET AASHTO HS20 LOADING.
- 20. GEOTEXTILE FABRIC AROUND WEEPS SHALL BE AASHTO M288 CLASS A OR AN APPROVED EQUAL.
- 21. PRIOR TO SETTING OF STRUCTURES OR LAYING OF PIPE, ANY UTILITY CROSSING SHALL BE EXPOSED TO CONFIRM NO CONFLICTS EXIST WITH PROPOSED INSTALLATION.

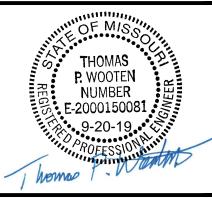






SUMMIT ORCHARDS LOT 4B
FINAL DEVELOPMENT PLAN
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086

DETAILS



SHEET NUMBER

702

23 OF 44

INITIAL BACKFILL

-UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS

-UNDER OPEN AREAS

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS

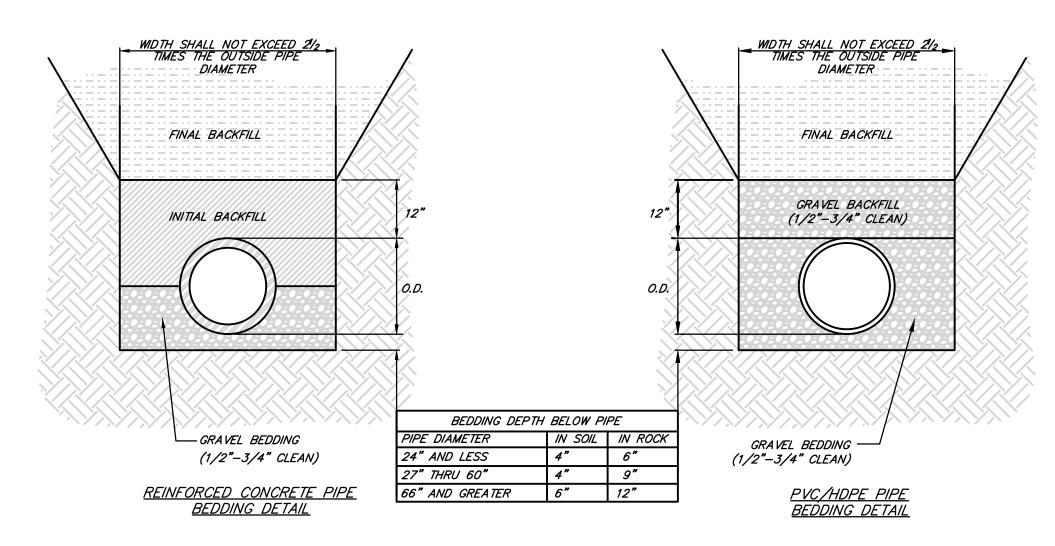
SELECT FILL CONSISTING OF SITE EXCAVATED OR IMPORTED NON-COHESIVE MATERIAL FREE OF CLAY, ORGANICS, TRASH, FROZEN MATERIAL, OR ROCKS LARGER THAN 3" COMPACTED TO 95% OF STANDARD DENSITY PER ASTM D-698

<u>FINAL BACKFILL</u>

-UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS

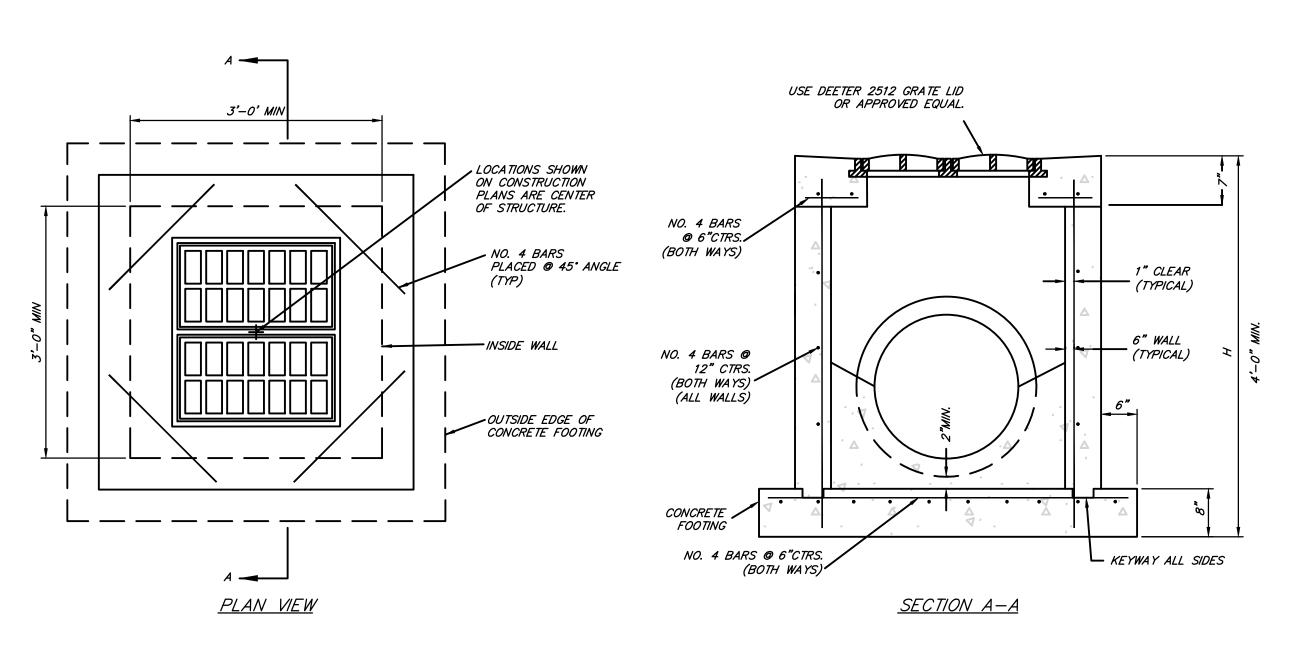
ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8", COMPACTED TO 95% OF STANDARD DENSITY PER ASTM D-698

-UNDER OPEN AREAS ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8", COMPACTED TO 90% OF STANDARD DENSITY PER ASTM D-698



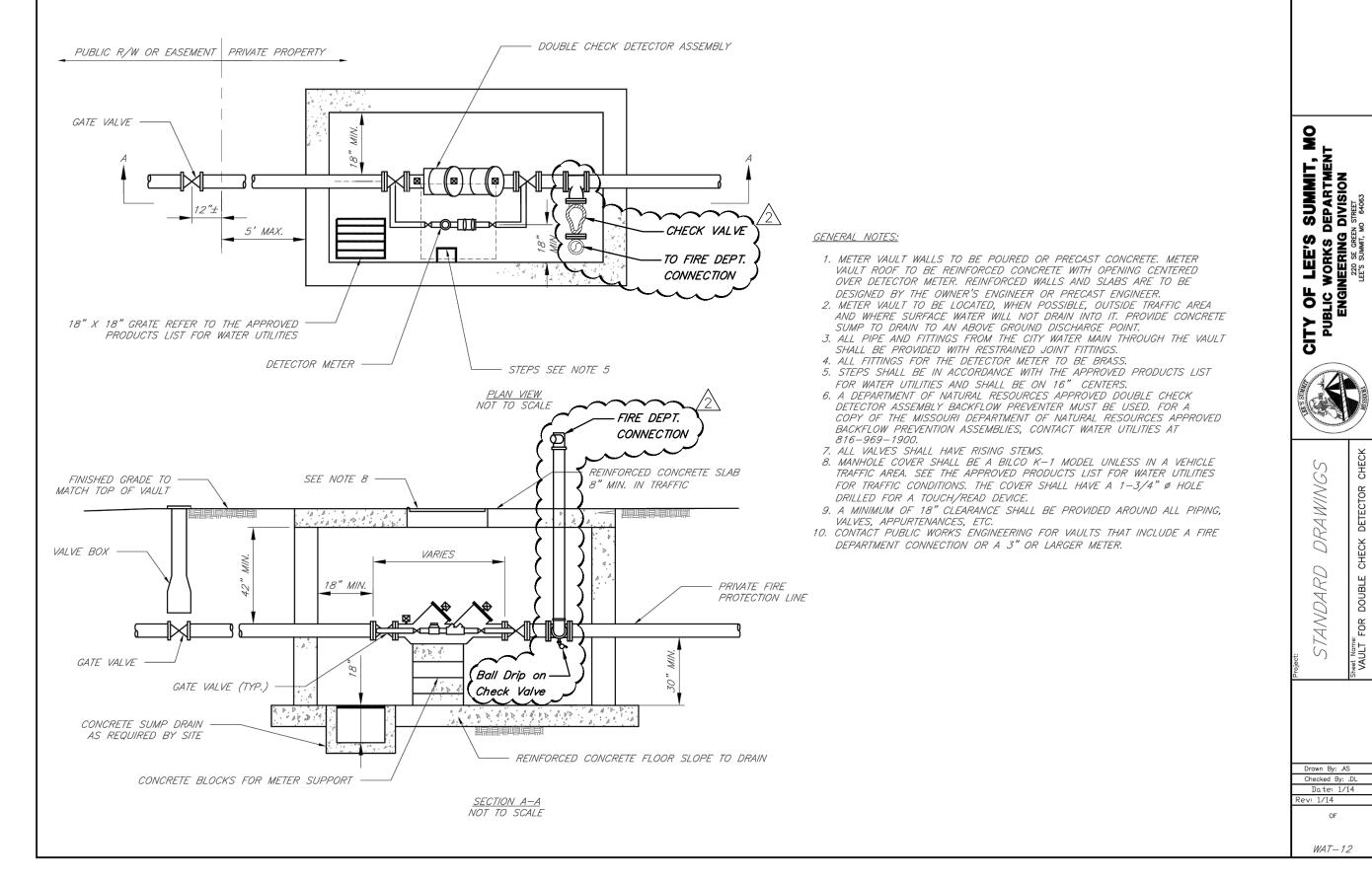
STORM SEWER PIPE BEDDING DETAIL

SCALE: N.T.S.



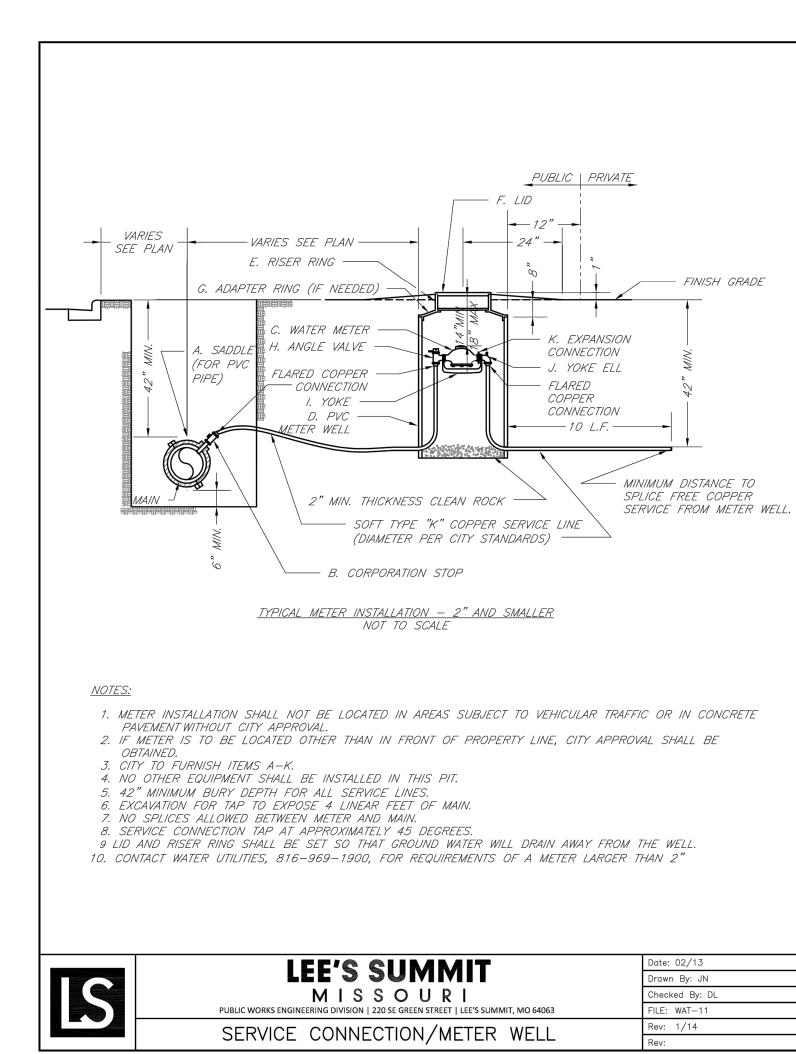
GRATED AREA INLET DETAIL

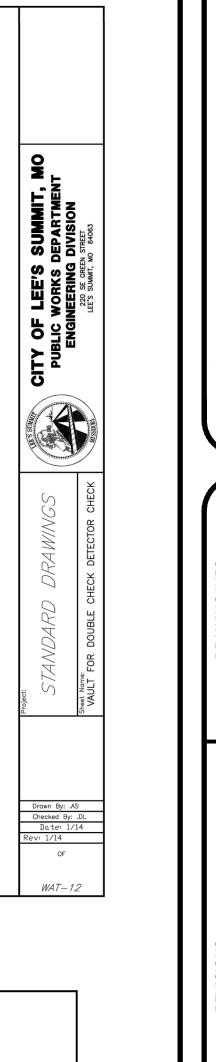
SCALE: N.T.S.



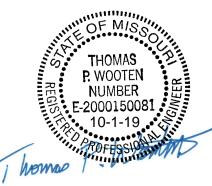
<u>NOTES</u>

- 1. ALL CONCRETE SHALL BE 4000 PSI.
- 2. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
- 3. FLOOR OF INLET SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERT TO PROVIDE SMOOTH FLOW.
- 4. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT SEALING COMPOUND, OR PREMOLDED EXPANSION JOINT FILLER.
- 5. STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
- 6. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
- 7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF
- BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF ±1/8" SHALL BE PERMITTED.
- 8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS
- 9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
- 10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- 11. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- 12. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
- 13. CONNECTIONS TO PRECAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
- 14. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THAN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED.



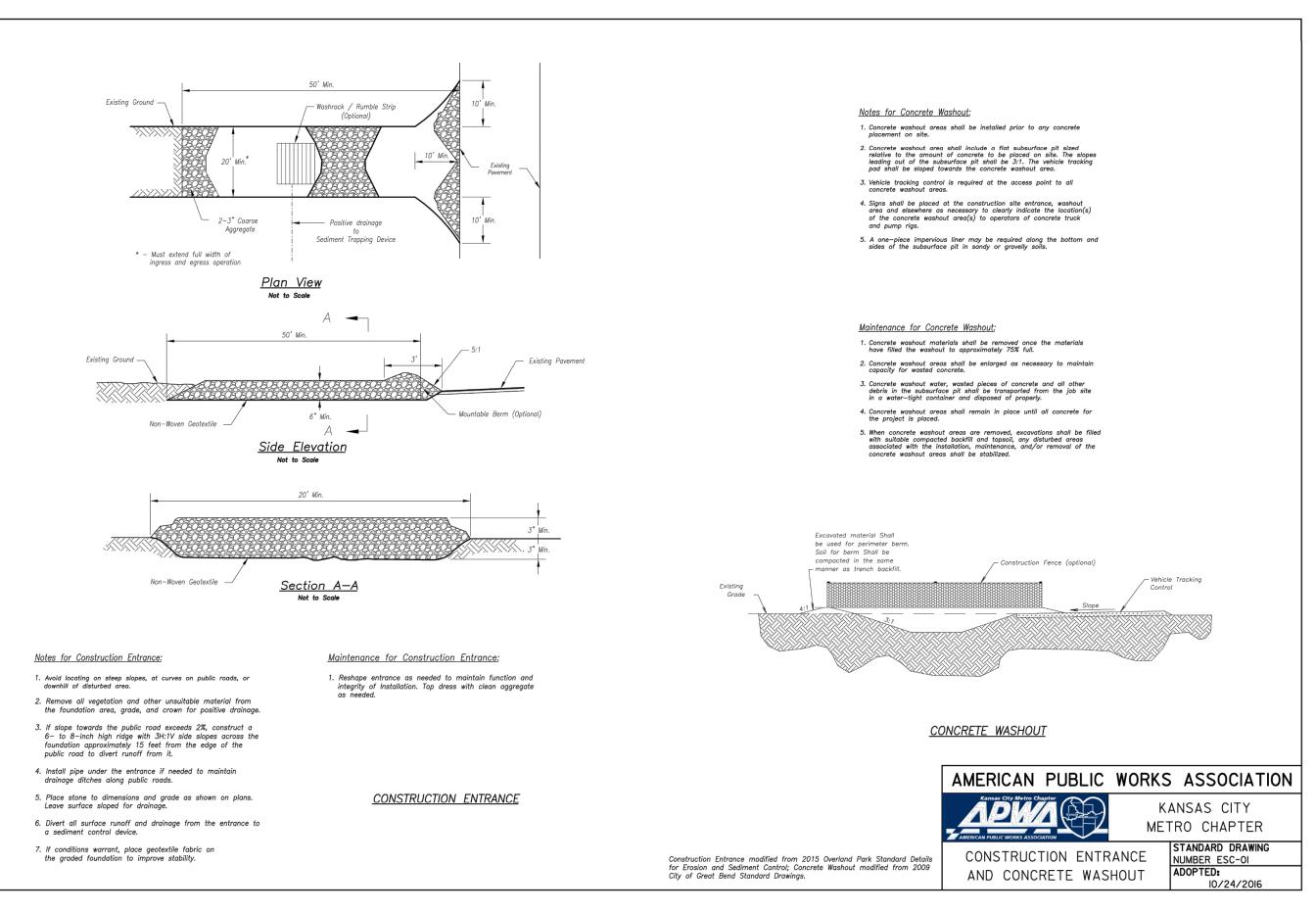


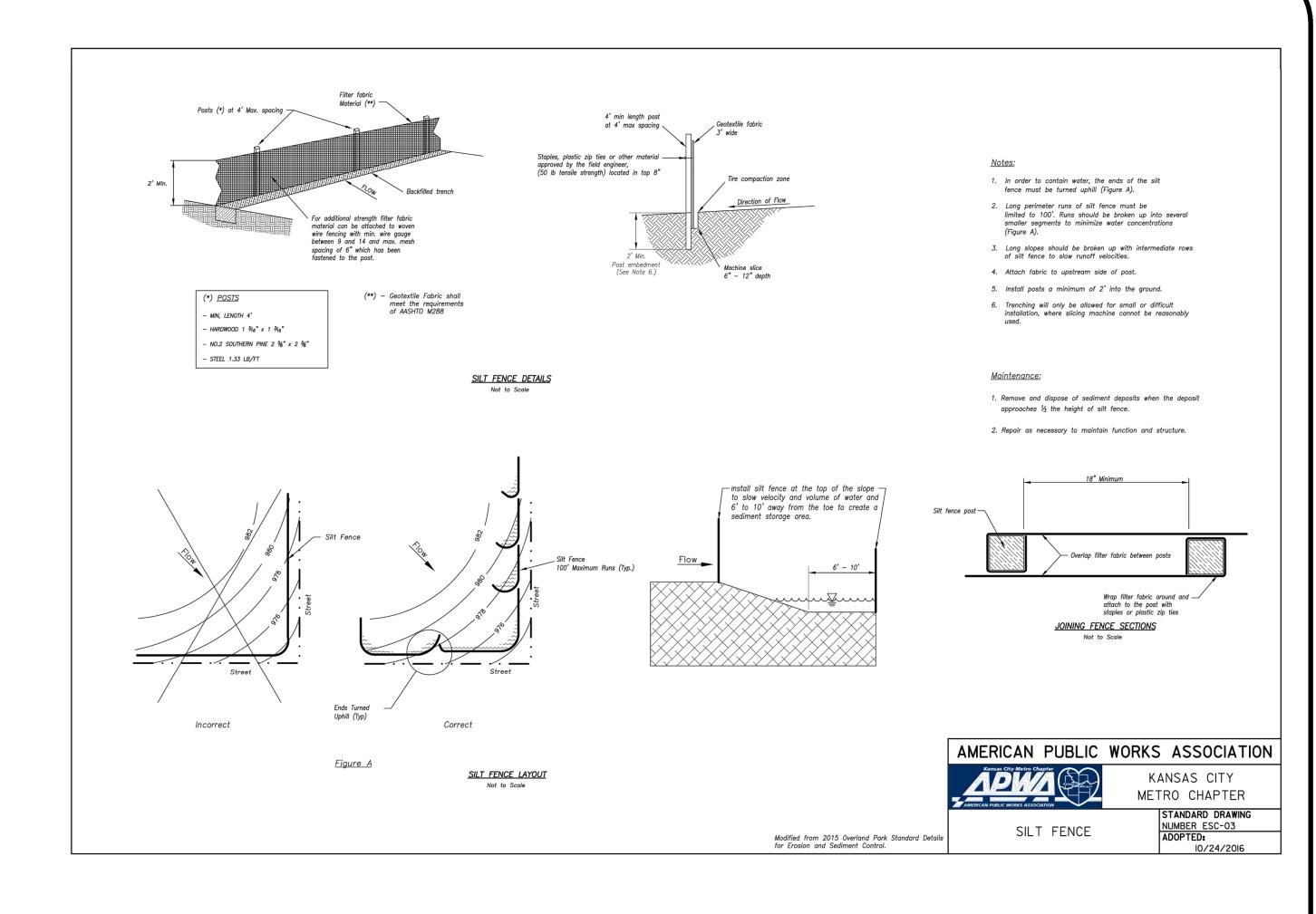
4 4

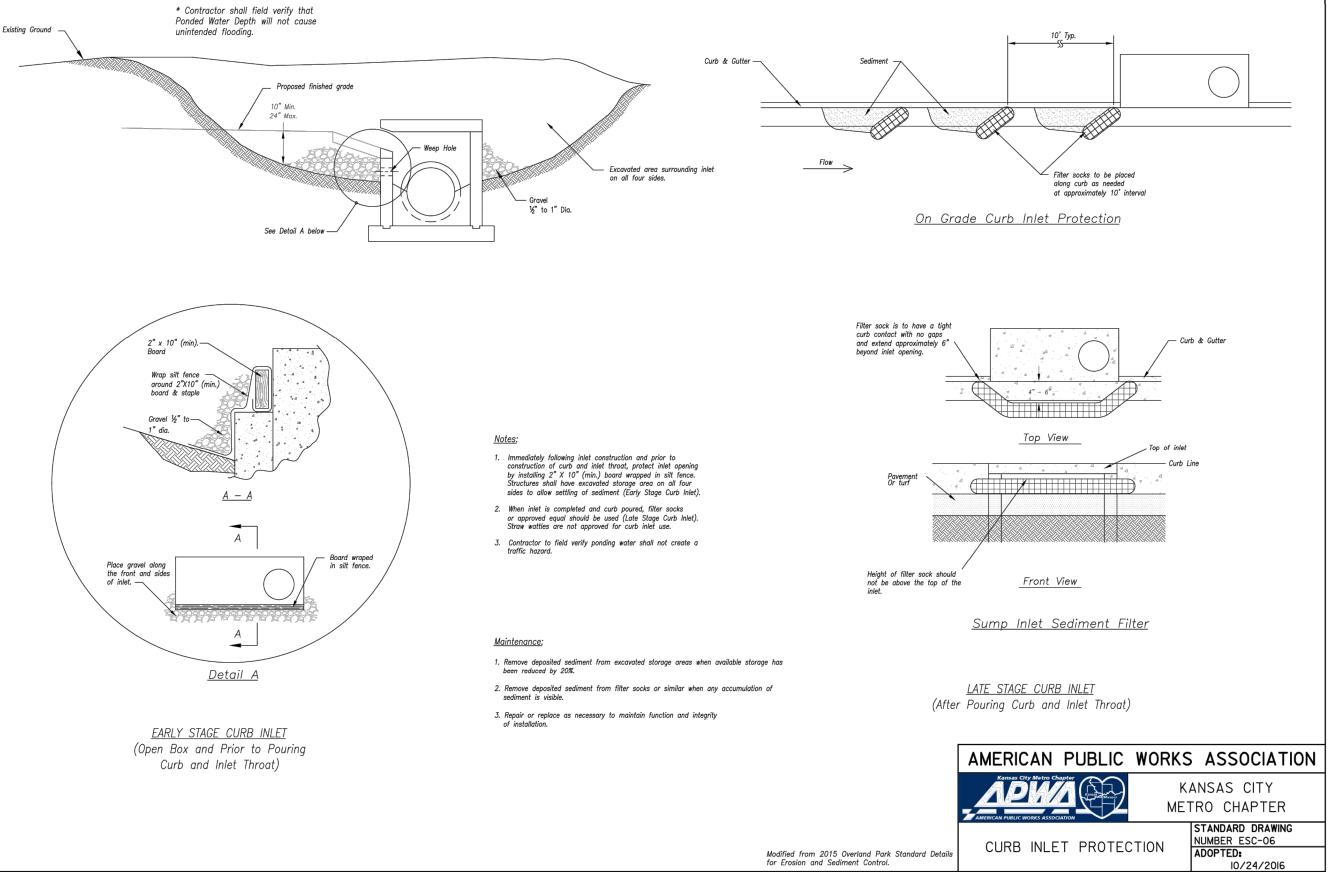


SHEET NUMBER

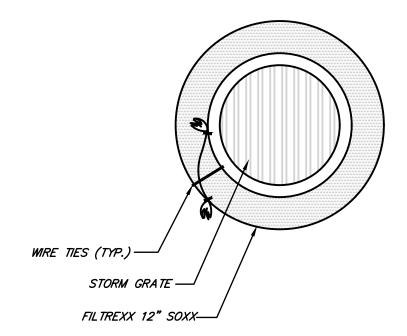
SUMMIT FINAL DE NW CHI LEE'S \$

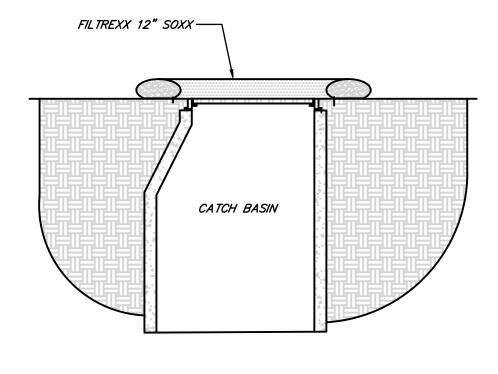






- 1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
- 2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
- 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.





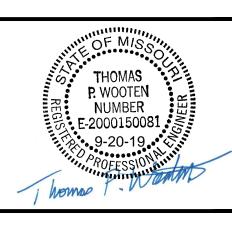
GRATED AREA INLET PROTECTION

SCALE: N.T.S.

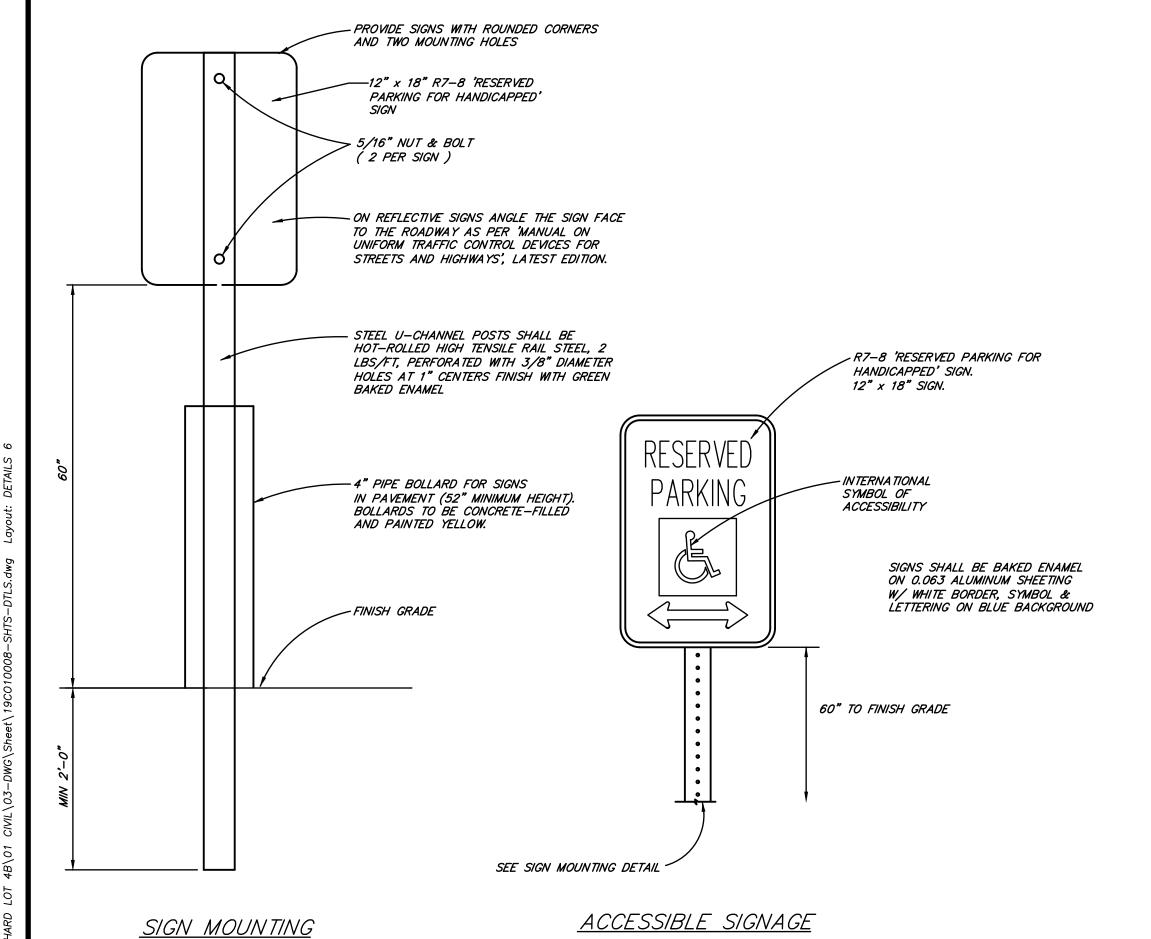


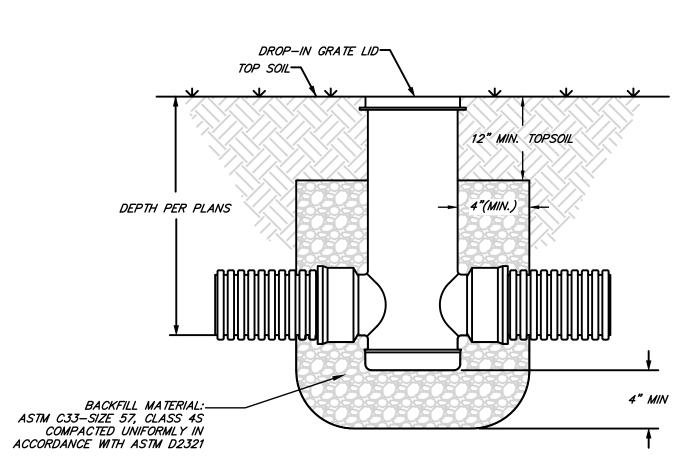
	REVISIONS			DR/	DRAWING INFO.
ON	DESCRIPTION	ВУ	DATE	DATE DRAWN BY:	DRS
				CHECK BY:	TPW
				LICENSE NO.	
				DATE:	08/28/2019
				FIELD BOOK:	
				JOB NUMBER: 19CO10008	19CO10008
	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

SUMMIT ORCHARDS L
FINAL DEVELOPMENT
NW CHIPMAN RD & NW WARD
LEE'S SUMMIT, MISSOURI 640



SHEET NUMBER

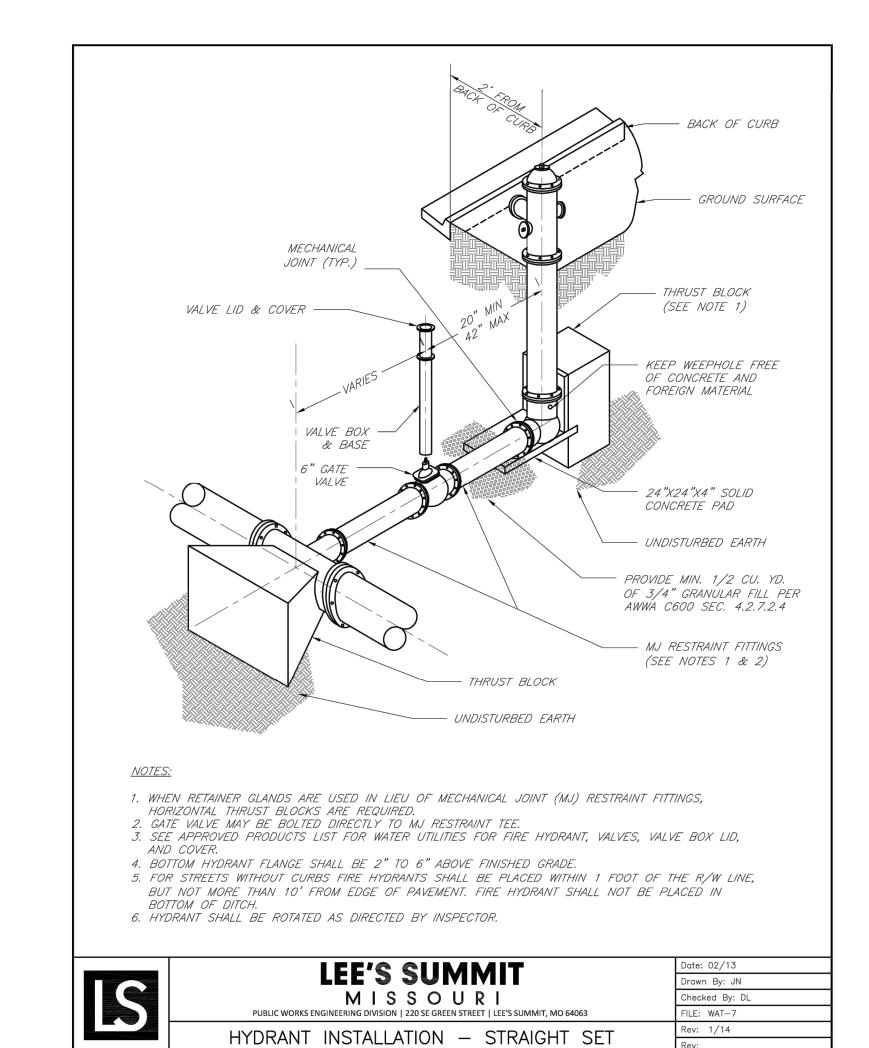




NYLOPLAST DRAIN BASIN DETAIL SCALE: N.T.S.

ADA ACCESSIBLE PARKING SIGNAGE DETAIL

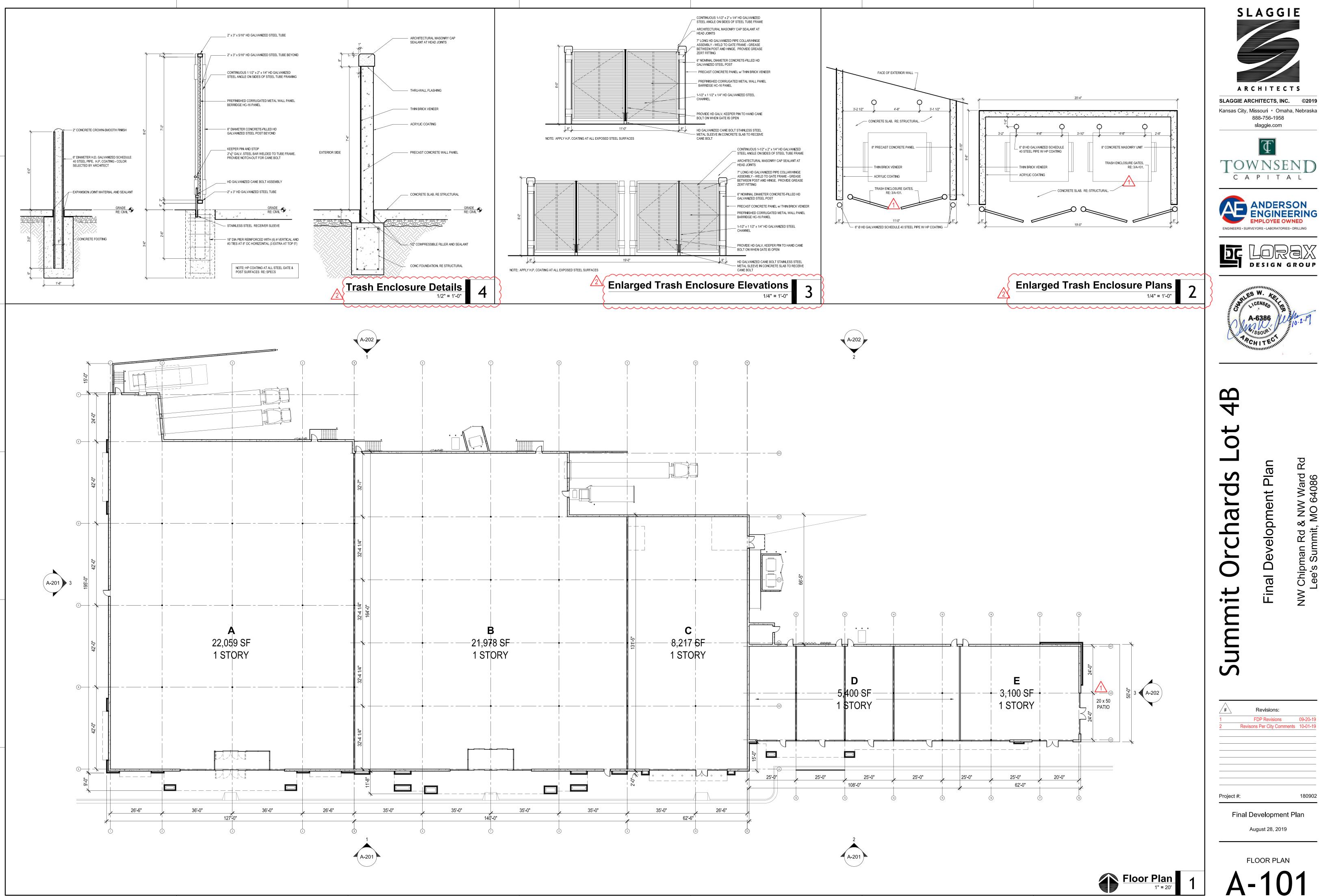
SCALE: N.T.S.



 $\sim\sim\sim\sim$ <u>NEW SHEET</u>

P. WOOTEN NUMBER SHEET NUMBER

SUMMIT ORCHARDS LOT 4
FINAL DEVELOPMENT PLA
NW CHIPMAN RD & NW WARD RD
LEE'S SUMMIT, MISSOURI 64086





888-756-1958

slaggie.com

Final Development Plan

FLOOR PLAN





SLAGGIE ARCHITECTS, INC. ©2019 Kansas City, Missouri • Omaha, Nebraska 888-756-1958 slaggie.com









4B velopment Plan D Summ

Revisions: FDP Revisions 09/20/201 Project#

Final Development Plan August 28, 2019

EXTERIOR ELEVATIONS

A-201C

Final Development Plan

August 28, 2019

FDP Revisions



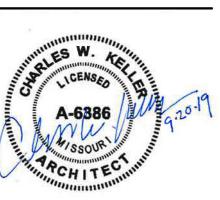
SLAGGIE ARCHITECTS, INC. ©2019

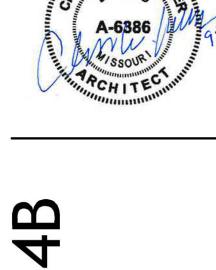
Kansas City, Missouri • Omaha, Nebraska
888-756-1958
slaggie.com











0

D

Q

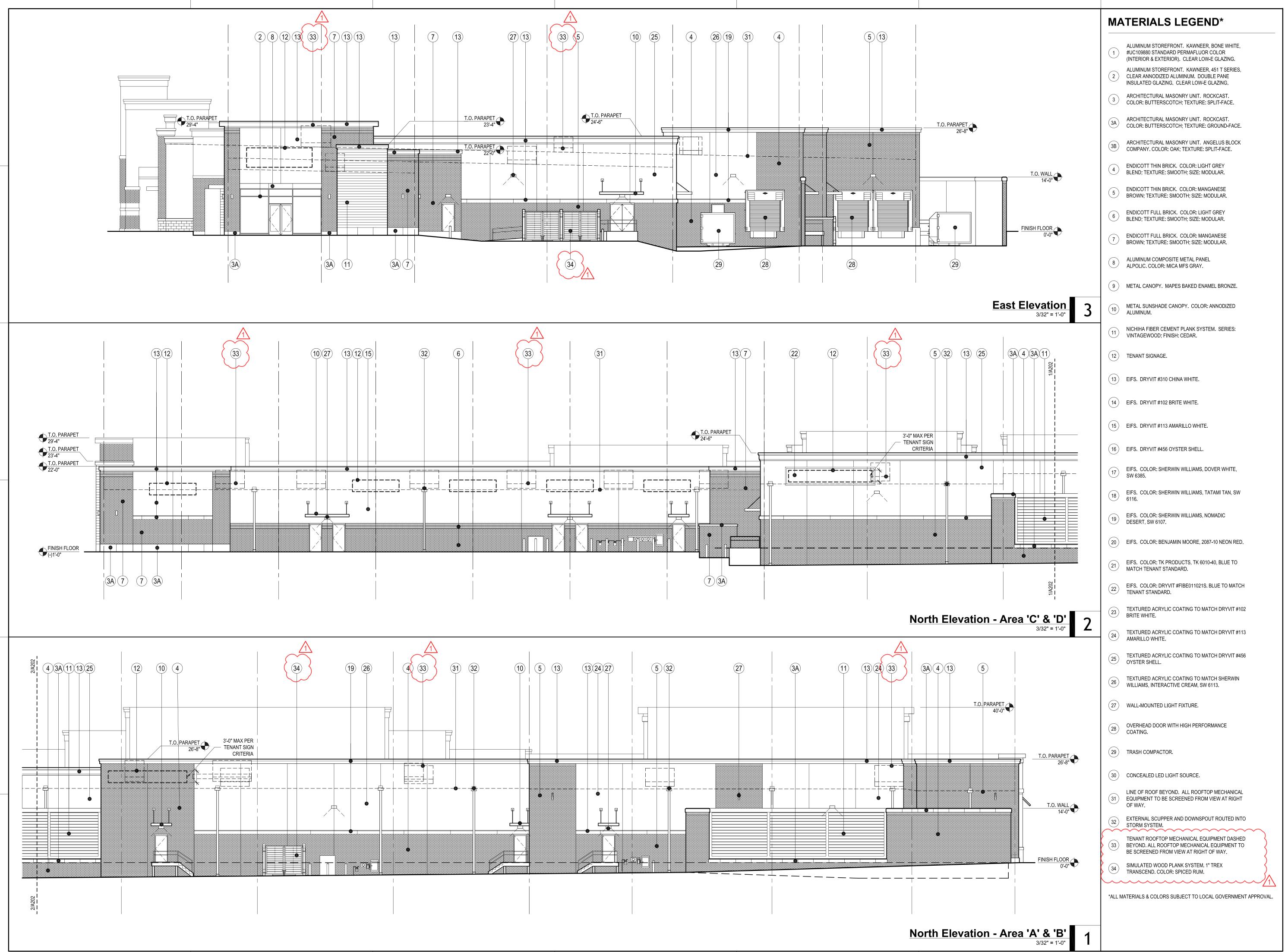
Summit

Project #:

Final Development Plan

NW Chipman Rd & NW Ward Rd

Lee's Summit, MO 64086





SLAGGIE ARCHITECTS, INC. ©2019











4B

O

D

•

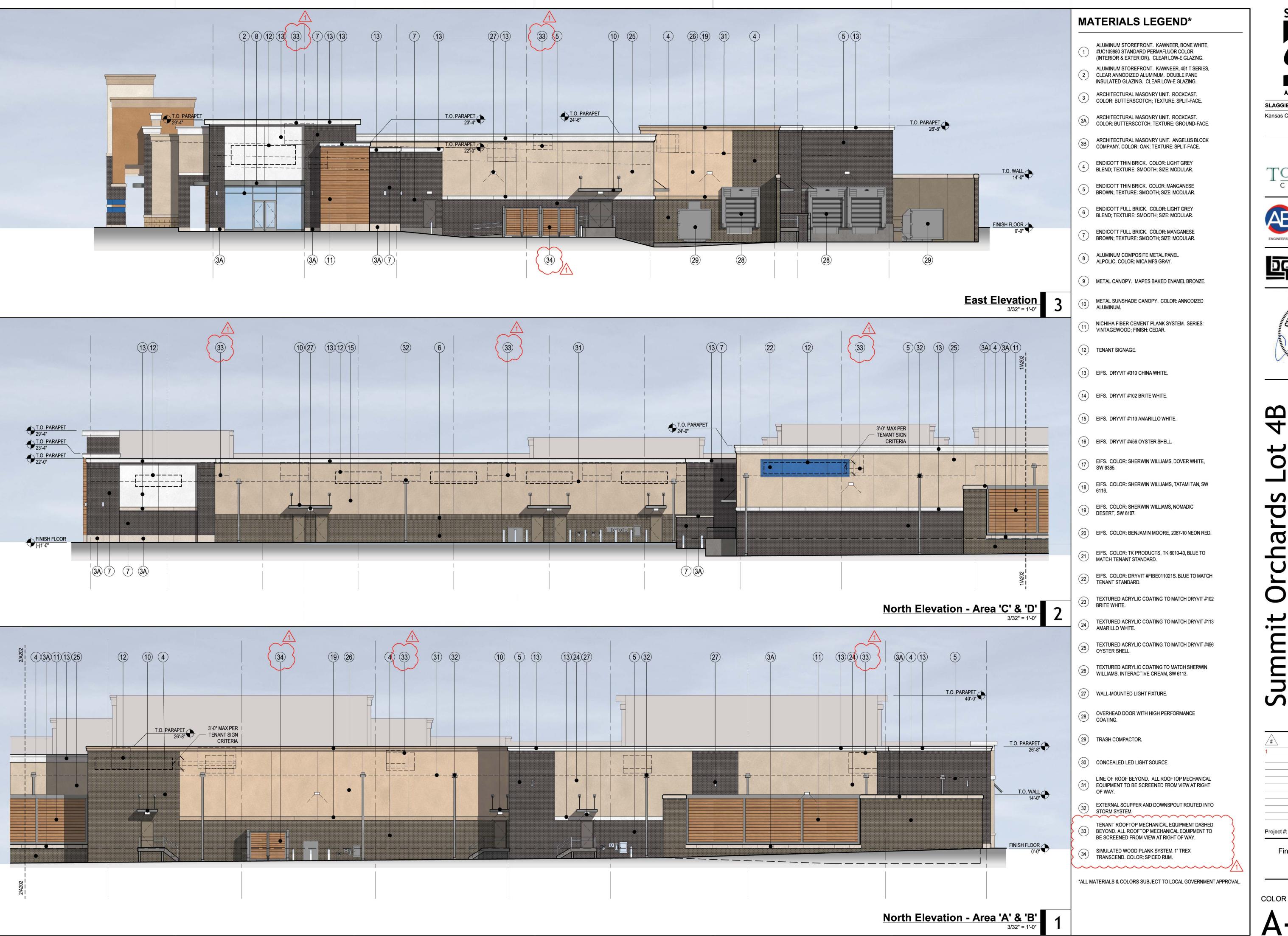
velopment Pla Final De

Summi Revisions: FDP Revisions 09/20/2019

Project #: Final Development Plan

August 28, 2019

EXTERIOR ELEVATIONS



SLAGGIE ARCHITECTS

SLAGGIE ARCHITECTS, INC. ©2019 Kansas City, Missouri . Omaha, Nebraska 888-756-1958



slaggie.com







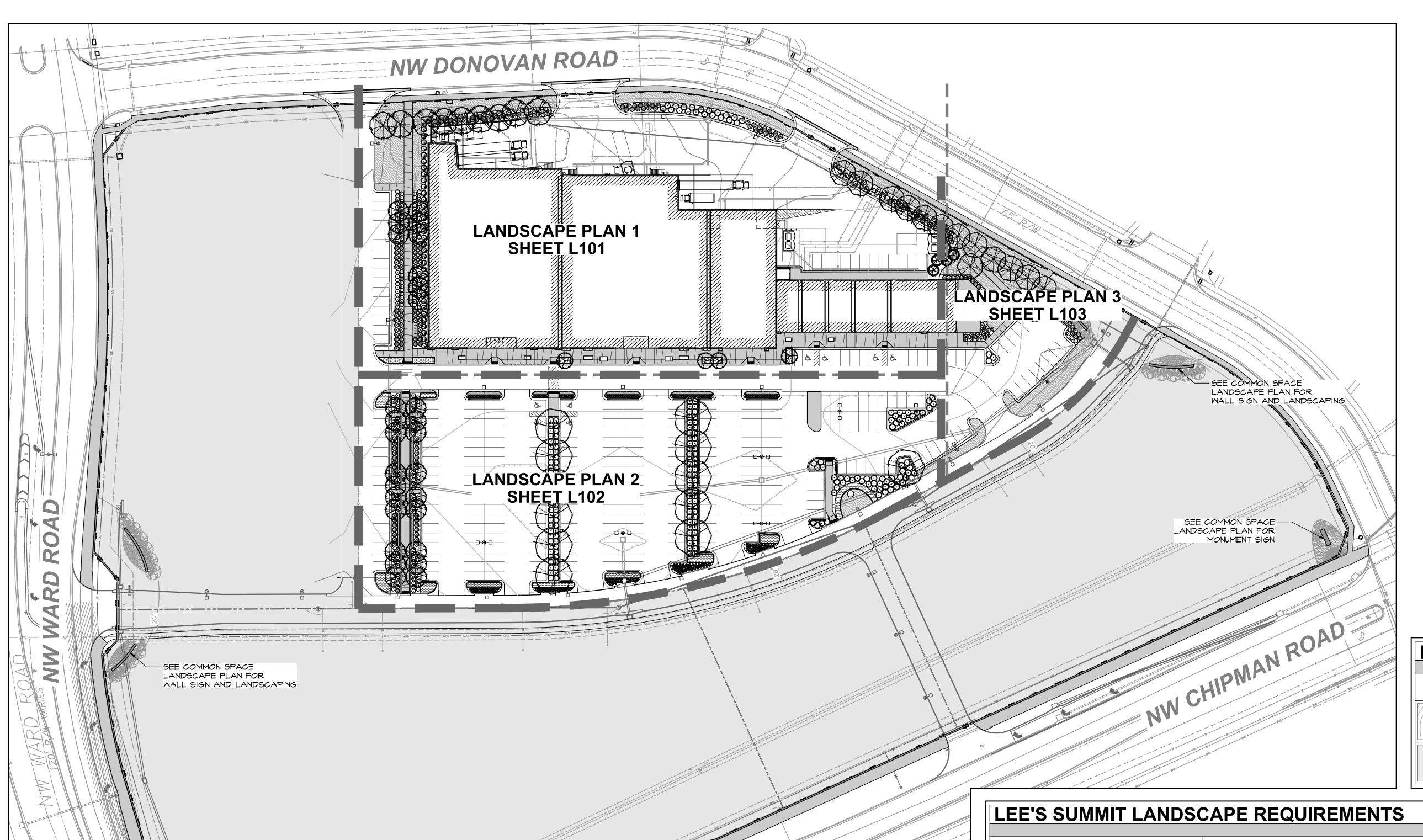


Chipman Rd & NW Ward Lee's Summit, MO 64086

01		
	Revisions:	
1	FDP Revisions	09/20/20
Project #:		1809
Final	Development	Plan

August 28, 2019

COLOR EXTERIOR ELEVATIONS



PLANT SIZE REQUIREMENTS (FOR THOSE PLANTS SATISFYING LEE'S SUMMIT REQUIREMENTS)

2½" PEA POT

3" CALIPER

ව' HT. MIN.

SIZE REQUIREMENT

18"-24" B&B OR 2-GAL. CONTAINER

24"-30" B&B OR 5-GAL. CONTAINER

LANDSCAPE MATERIAL

MEDIUM SHRUBS

LARGE SHRUBS

GROUNDCOVER

DECIDUOUS TREES

EVERGREEN TREES

HATCH	LEGEND
SYMBOL	DESCRIPTION
	SODDED LAWN
	SEPARATE SUBMITTAL

CODE REQUIREMENT STREET FRONTAGE LANDSCAPING **DESCRIPTION CALCULATION**

PLANTING REQUIRED | PLANTING PROVIDED 784 LF NW DONOVAN RD PROVIDE I TREE/30 LF OF PUBLIC OR PRIVATE STREET FRONTAGE PLANTED IN A MIN. 20' WIDE FRONTAGE - 150 LF DRIVES = 634 LF FRONTAGE 22 TREES \$ 31 SHRUBS REQUIRED 22 TREES \$ 189 SHRUBS PROVIDED LANDSCAPE STRIP 634 / 30 TREES = 22 TREES ALONG NW DONOVAN ROAD PROVIDE I SHRUB/20 LF STREET FRONTAGE 634 / 20 = 32 SHRUBS

CODE REQUIREMENT OPEN YARD LANDSCAPING

THE PARKING AREA.

FROM ROW SHALL BE SCREENED TO A HT. OF 21

CALCULATION DESCRIPTION PLANTING REQUIRED | PLANTING PROVIDED PROVIDE 2 SHRUBS/5,000 SF TOTAL LOT AREA (EXCLUDING BUILDING FOOTPRINT) 266,151 SF LOT - 61,029 SF BUILDING = 205,122 SF (205,122 / 5,000) x 2 = 82 SHRUBS | 82 SHRUBS \$ 41 TREES REQUIRED PROVIDE I TREE/5,000 SF TOTAL LOT AREA 205,122 / 5,000 = 41 TREES (EXCLUDING BUILDING FOOTPRINT)

49 TREES \$ 508 SHRUBS PROVIDED

CODE REQUIREMENT PARKING LOT INTERIOR LANDSCAPING

DESCRIPTION CALCULATION PLANTING REQUIRED | PLANTING PROVIDED LANDSCAPE ISLANDS, STRIPS OR OTHER PLANTING AREAS SHALL BE LOCATED IN THE PARKING LOT & CONSTITUTE AT LEAST 5% OF 121,273 SF PARKING AREA x 6,064 SF INTERIOR LANDSCAPE AREAS

5% = 6,064 SF

PLANTING ISLANDS CONTAINING TREES, SHRUBS, GRASSES OR GROUNDCOVERS SHALL BE LOCATED AT THE END OF EVERY PARKING BAY

CODE REQUIREMENT PARKING LOT ADJACENT TO RIGHT-OF-WAY

DESCRIPTION CALCULATION PARKING LOTS AND LOADING AREAS VISIBLE

PLANTING REQUIRED (414 LF LOADING AREA ADJACENT | 125 SHRUBS ADJACENT TO LOADING MITH A HEDGE CONSISTING OF 12 SHRUBS/40 LF. TO NW DONOVAN RD / 40) x 12 = SHRUBS SHALL BE 18" HT. AT TIME OF PLANTING. 125 SHRUBS

PLANTING PROVIDED (II5 LF ADJACENT TO NW DONOVAN RD / 40) x I2 = 35 SHRUBS ADJACENT TO PARKING LOT RD / 40) x I2 = 35 SHRUBS ADJACENT TO PARKING LOT RD REQUIRED PARKING LOT 128 SHRUBS PROVIDED ADJACENT TO LOADING AREA

15,572 SF INTERIOR LANDSCAPE AREAS PROVIDED. LANDSCAPE ISLANDS HAVE

PARKING BAYS IN ACCORDANCE WITH

BEEN PROVIDED AT THE ENDS OF

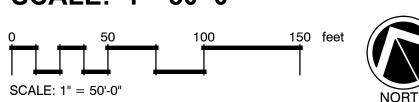
THE LANDSCAPE ORDINANCE

DESIGN GROUP 8021 SANTA FE DRIVE OVERLAND PARK, KS 66204 WWW.LORAXDESIGNGROUP.COM

REVISION	
FPD REVISIONS	9/20/19

AUGUST 28, 2019 OVERALL LANDSCAPE PLAN

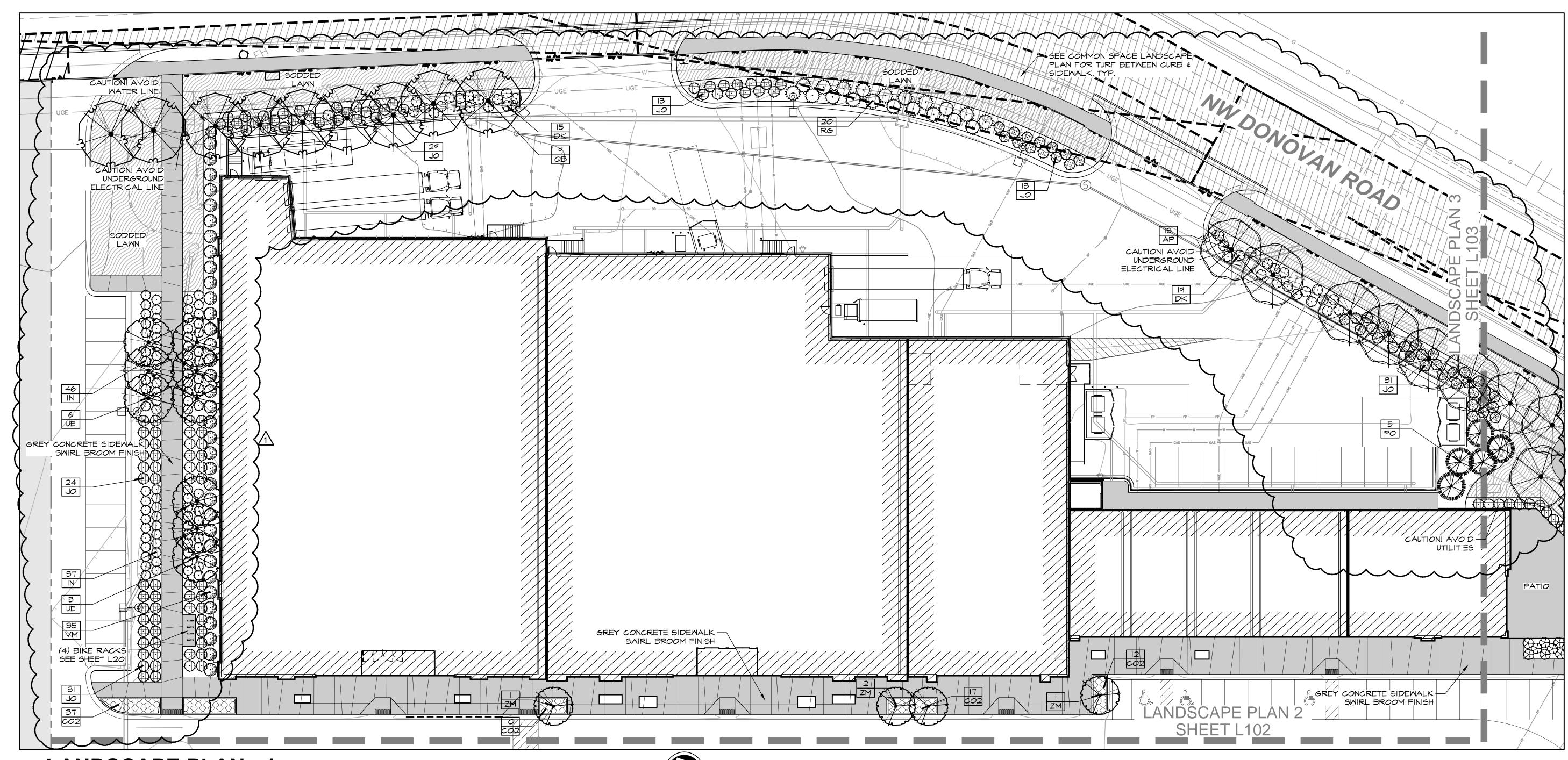
OVERALL LANDSCAPE PLAN SCALE: 1"=50'-0"





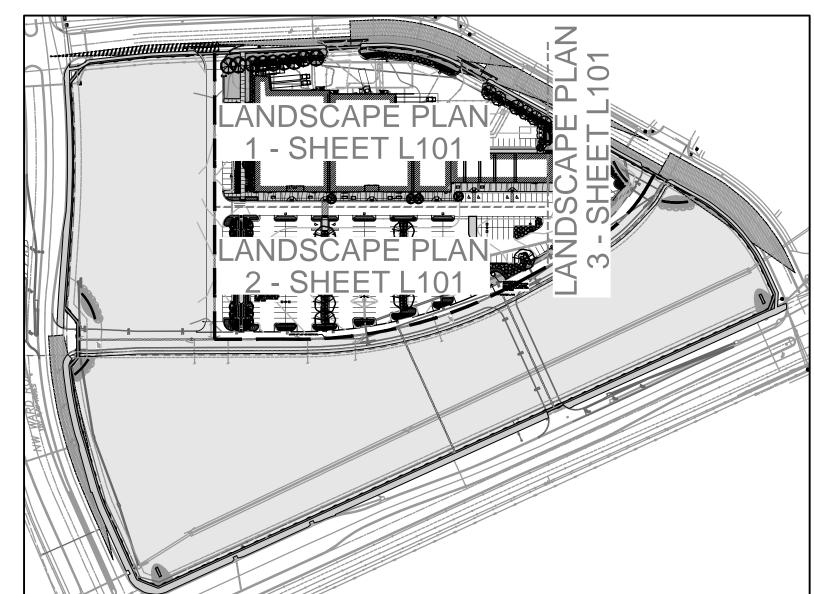


- SEE COMMON SPACE LANDSCAPE PLAN FOR MONUMENT SIGN



LANDSCAPE PLAN - 1

SCALE: 1"=20'-0"



REFERENCE PLAN
SCALE: NTS

•	20	40	60 feet	
SCALE: 1	" = 20'-0"			
PLANT S	CHEDULE			

40	60 fe	eet NOR

	PLANT SCF	1EDULE				
	TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	<u>SIZE</u>
		AP	Acer truncatum 'Pacific Sunset' TM / Pacific Sunset Maple	B # B	3"Cal	
No.		PO	Picea omorika / Serbian Spruce	B & B		8' ht. min.
~ ~		PA	Platanus × acerifolia / London Plane Tree	B # B	3"Cal	
		QB	Quercus bicolor / Swamp White Oak	B & B	3"Cal	
		UE	Ulmus parvifolia 'Emer II' TM / Allee Elm	B & B	3"Cal	
		ZM	Zelkova serrata 'Musashino' / Samleaf Zelkova	B # B	3"Cal	
•	SHRUBS	CODE	BOTANICAL / COMMON NAME	<u>SIZE</u>	FIELD2	FIELD3
	\bigcirc	AK	Aronia melanocarpa Low Scape Mound / Low Scape Mound Chokeberry	#3		
	\odot	DK	Diervilla × Kodiak Orange / Kodiak Orange Bush Honeysuckle	#3		
	\otimes	HB	Hydrangea paniculata 'Bobo' / Bobo Hydrangea	#5		
	O	IN	llex verticillata 'Nana' / Red Sprite Winterberry	#3		
	\oplus	O L	Juniperus chinensis 'Gold Lace' / Gold Lace Juniper	#3		
	\odot	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	#3		
	0	VM	Viburnum dentatum 'Blue Muffin' / Blue Muffin Viburnum	#5		
	SHRUB AREAS	CODE	BOTANICAL / COMMON NAME	CONT	FIELD2	FIELD3
		CO2	Calamagrostis x acutiflora 'Overdam' / Overdam Feather Reed Grass	#		

Sporobolus heterolepis 'Tara' / Prairie Dropseed

HATCH LEGEND SYMBOL DESCRIPTION SODDED LAWN SEPARATE SUBMITTAL

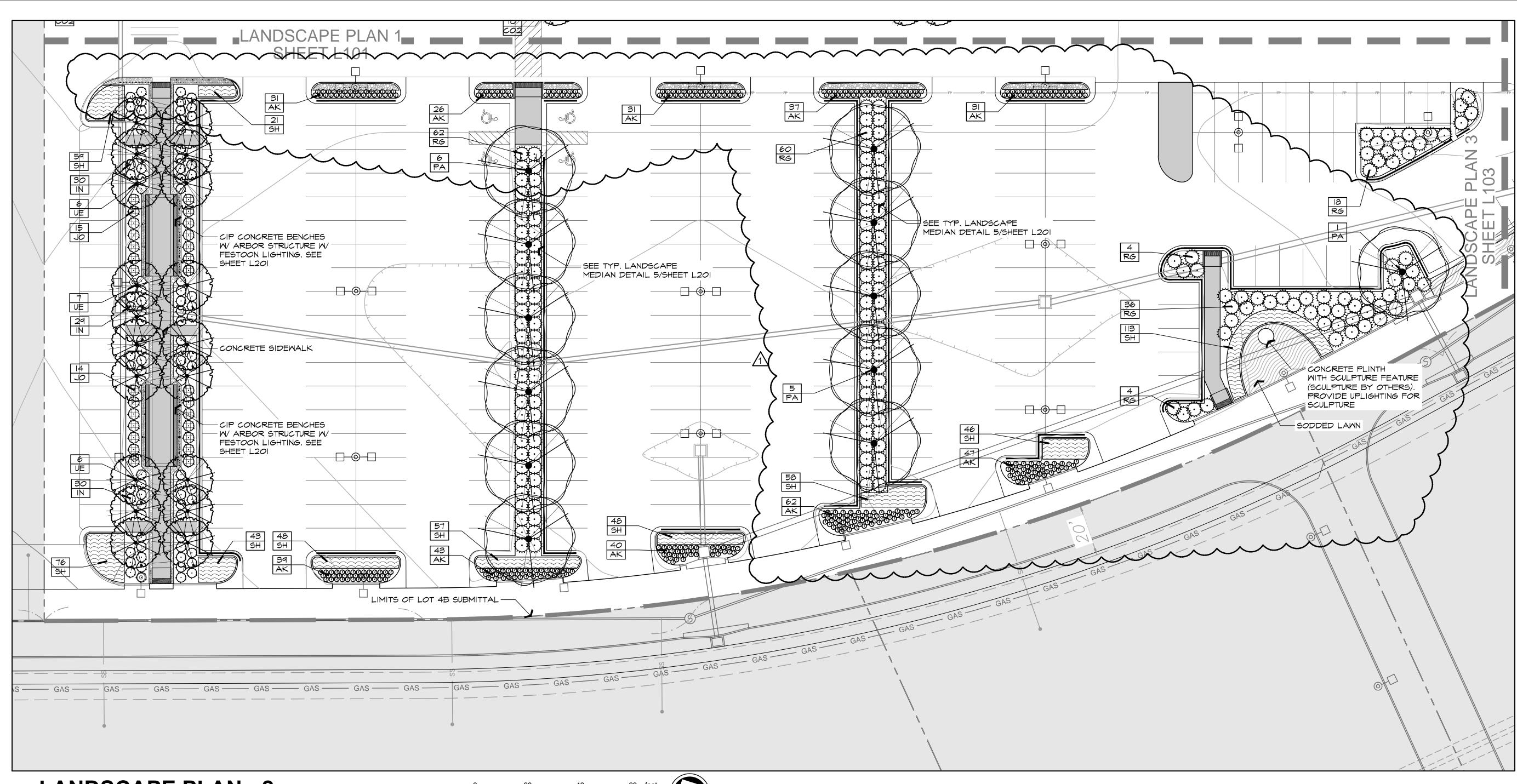
DESIGN GROUP 8021 SANTA FE DRIVE OVERLAND PARK, KS 66204 WWW.LORAXDESIGNGROUP.COM



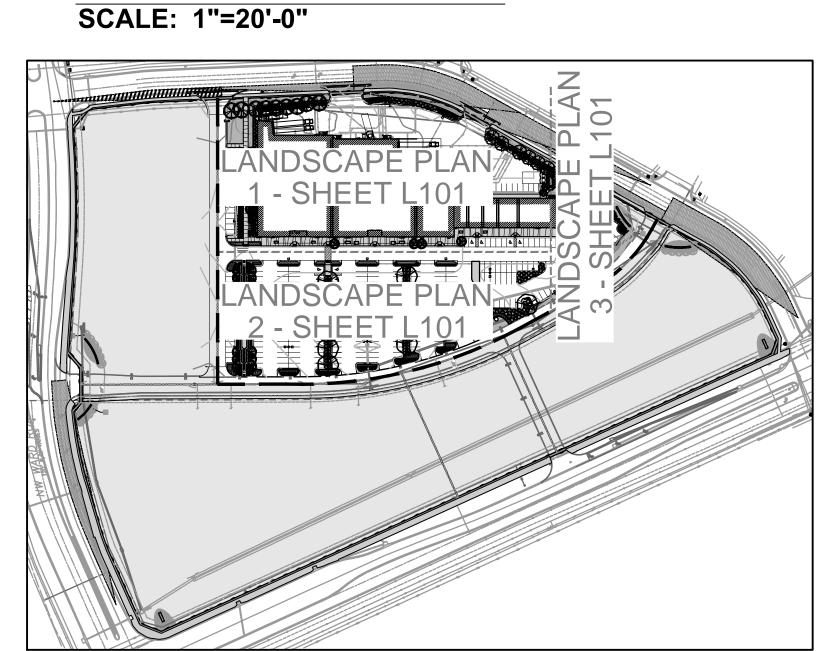
REVISION: FPD REVISIONS 9/20/19

AUGUST 28, 2019 LANDSCAPE PLAN

L101



LANDSCAPE PLAN - 2



REFERENCE PLAN	
SCALE: NTS	\

CALE: 1" :	20 = 20'-0"	40	60	feet	NORTH

SHRUB AREAS CODE BOTANICAL / COMMON NAME

PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CONT	<u>CAL</u>	<u>SIZE</u>
	AP	Acer truncatum 'Pacific Sunset' TM / Pacific Sunset Maple	B & B	3"Cal	
	PO	Picea omorika / Serbian Spruce	B # B		8' ht. min.
	PA	Platanus × acerifolia / London Plane Tree	B&B	3"Cal	
	QB	Quercus bicolor / Swamp White Oak	B&B	3"Cal	
	UE	Ulmus parvifolia 'Emer II' TM / Allee Elm	B&B	3"Cal	
	ZM	Zelkova serrata 'Musashino' / Sawleaf Zelkova	B&B	3"Cal	
SHRUBS	CODE	BOTANICAL / COMMON NAME	<u>SIZE</u>	FIELD2	FIELD3
\odot	AK	Aronia melanocarpa Low Scape Mound / Low Scape Mound Chokeberry	#3		
\odot	DK	Diervilla x Kodiak Orange / Kodiak Orange Bush Honeysuckle	#3		
\odot	IN	llex verticillata 'Nana' / Red Sprite Winterberry	#3		
	70	Juniperus chinensis 'Gold Lace' / Gold Lace Juniper	#3		
0	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	#3		

CO2 Calamagrostis x acutiflora 'Overdam' / Overdam Feather Reed Grass

Sporobolus heterolepis 'Tara' / Prairie Dropseed

HATCH	I LEGEND
SYMBOL	DESCRIPTION
	SODDED LAWN
	SEPARATE SUBMITTAL





NW CHIPMAN RD & NW WARD RE LEE'S SUMMIT, MISSOURI 64086

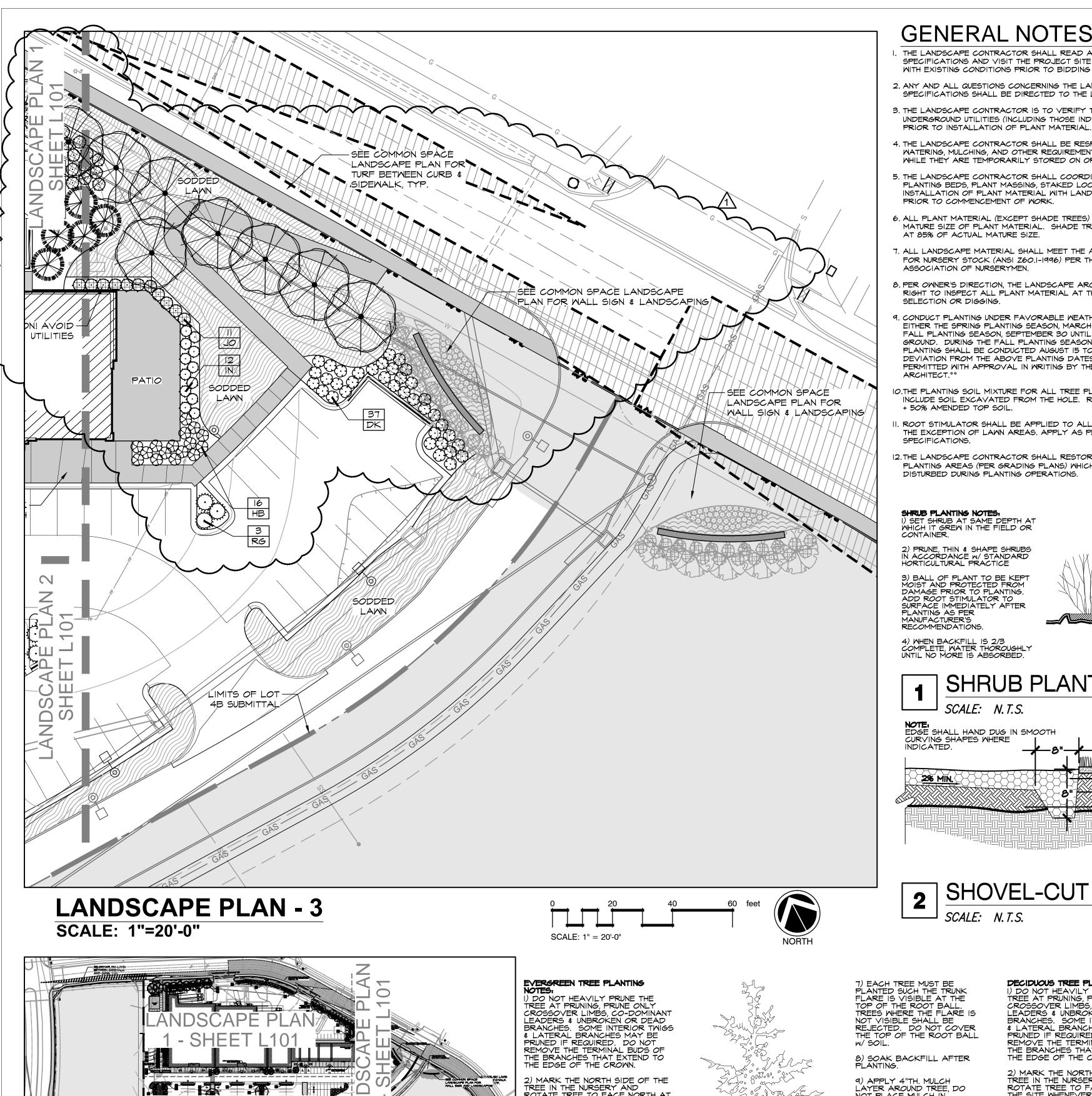
REVISION:

FPD REVISIONS 9/20/19

AUGUST 28, 2019

LANDSCAPE PLAN

1 102



GENERAL NOTES

- THE LANDSCAPE CONTRACTOR SHALL READ ALL LANDSCAPE PLANS, SPECIFICATIONS AND VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT.
- 2. ANY AND ALL QUESTIONS CONCERNING THE LANDSCAPE PLANS AND SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT. 3. THE LANDSCAPE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES (INCLUDING THOSE INDICATED ON THE PLAN)
- 4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MULCHING, AND OTHER REQUIREMENTS OF PLANT MATERIALS WHILE THEY ARE TEMPORARILY STORED ON OR OFF SITE.
- 5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE LAYOUT OF PLANTING BEDS, PLANT MASSING, STAKED LOCATION OF TREES AND INSTALLATION OF PLANT MATERIAL WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- 6. ALL PLANT MATERIAL (EXCEPT SHADE TREES) IS DELINEATED AT MATURE SIZE OF PLANT MATERIAL. SHADE TREES ARE DELINEATED AT 85% OF ACTUAL MATURE SIZE.
- 7. ALL LANDSCAPE MATERIAL SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-1996) PER THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 8. PER OWNER'S DIRECTION, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIAL AT THE NURSERY, PRIOR TO SELECTION OR DIGGING.
- 9. CONDUCT PLANTING UNDER FAVORABLE WEATHER CONDITIONS DURING EITHER THE SPRING PLANTING SEASON, MARCH I TO JUNE I, OR THE FALL PLANTING SEASON, SEPTEMBER 30 UNTIL FREEZING OF THE GROUND. DURING THE FALL PLANTING SEASON, CONIFEROUS MATERIAL PLANTING SHALL BE CONDUCTED AUGUST 15 TO OCTOBER 1. DEVIATION FROM THE ABOVE PLANTING DATES WILL ONLY BE PERMITTED WITH APPROVAL IN WRITING BY THE LANDSCAPE
- O.THE PLANTING SOIL MIXTURE FOR ALL TREE PLANTINGS SHALL INCLUDE SOIL EXCAVATED FROM THE HOLE. RATIO: 50% VIRGIN SOIL + 50% AMENDED TOP SOIL.
- ROOT STIMULATOR SHALL BE APPLIED TO ALL PLANT MATERIALS WITH THE EXCEPTION OF LAWN AREAS. APPLY AS PER THE MANUFACTURERS SPECIFICATIONS.
- 12. THE LANDSCAPE CONTRACTOR SHALL RESTORE FINISH GRADES IN ALL PLANTING AREAS (PER GRADING PLANS) WHICH MAY HAVE BEEN DISTURBED DURING PLANTING OPERATIONS.

- 13. ALL TREE SAUCERS AND PLANTING BEDS ARE TO BE MULCHED WITH A MINIMUM OF 3" DOUBLE-GROUND HARDWOOD MULCH (COLOR DYED DARK BROWN). LANDSCAPE CONTRACTOR TO PROVIDE MULCH SAMPLE TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. WHERE PLANTING BEDS ARE ADJACENT TO WALKS AND CURBS THE SOIL LEVEL SHALL BE 3" LOWER TO ALLOW FOR MULCH LAYER. WHERE SOD IS INDICATED, ITS THICKNESS SHALL ALSO BE ACCOUNTED FOR SO THAT THE SOIL SURFACE IN THE SOD IS 1/2" BELOW THE HARDSCAPE SURFACE.
- 14.ALL SHRUB/PERENNIAL PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE SUCH AS TREFLAN OR EQUAL. APPLY PER MANUFACTURER'S SPECIFICATIONS. THE PRE-EMERGENT SHALL NOT BE APPLIED UNTIL AFTER ALL PLANTING WITHIN THESE AREAS IS COMPLETE, BUT BEFORE THESE AREAS ARE MULCHED. DO NOT DISTURB AREAS AFTER APPLICATION, WATER IN AS DIRECTED.
- 15. MULCH, STAKES, GUY WIRE, PRE-EMERGENT HERBICIDES, ETC. SHALL BE SUBSIDIARY TO INDIVIDUAL PLANTS.
- 16.ALL SLOPES THAT EXCEED A 3:1 GRADE SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET WITH NORTH AMERICAN GREEN SI5O. INSTALL PER THE MANUFACTURER'S SPECIFICATIONS.
- 17. LABEL EACH TREE AND SHRUB WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTH BOTANICAL AND COMMON NAME. LABEL EACH ORNAMENTAL GRASS, GROUNDCOVER, PERENNIAL AND ANNUAL WITH THE LABEL PROVIDED BY THE ORIGINAL GROWER OF THE PLANT. LABELS SHALL NOT BE REMOVED UNTIL AFTER PROVISIONAL ACCEPTANCE BY LANDSCAPE
- 18.STAKES AND GUY WIRES SHALL BE REMOVED AT THE END OF ONE FULL GROWING SEASON.
- 19. LOOSEN SOIL FOR ALL PLANTING ISLANDS AND SHRUB/PERENNIAL BEDS TO A DEPTH OF 12". ALL AREAS DENOTED AS SOD (LAWN AREAS) SHALL HAVE A 6" MINIMUM TOPSOIL LAYER. TOPSOIL SHALL BE LAID IN 3" LIFTS. IN AREAS WHERE CONSTRUCTION GRADING HAS NOT OCCURRED AND THE VIRGIN GRADES YET EXIST, THE TOPSOIL LAYER MAY NOT BE REQUIRED BASED ON THE DECISION OF THE LANDSCAPE ARCHITECT.

20. TOPSOIL SHALL BE FERTILE NATURAL TOPSOIL, TYPICAL OF THE

- LOCALITY, OBTAINED FROM WELL DRAINED AREAS. STOCKPILED TOPSOIL MAY BE USED. IT SHALL BE WITHOUT ADMIXTURE OF SUBSOIL OR SLAG AND SHALL BE FREE OF STONES, LUMPS, STICKS, PLANTS OR THEIR ROOTS, TOXIC SUBSTANCES OR OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH FUTURE MAINTENANCE. TOPSOIL PH RANGE SHALL BE 5.5 TO 7.0.
- 21. THERE SHALL BE NO ADDITIONS, DELETIONS OR SUBSTITUTION OF PLANT MATERIAL SPECIES WITHOUT THE WRITTEN APPROVAL BY THE

PLACE PLANT IN VERTICAL PLUMB

PEEL BACK BURLAP FROM TOP OF ROOTBALL OR REMOVE CONTAINER

BACKFILL WITH EXCAVATED SOIL \$

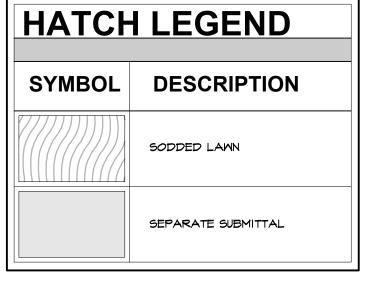
- COMPACTED OR UNDISTURBED SOIL

- PRUNE BROKEN AND DAMAGED

TWIGS AFTER PLANTING

· 4" TH LAYER MULCH

- OWNER OR LANDSCAPE ARCHITECT. ANY SUBSTITUTION THAT HAS NOT BEEN APPROVED SHALL BE REMOVED AND REPLACED WITH THE CORRECT PLANT AT LANDSCAPE CONTRACTOR'S EXPENSE.
- 22. IN THE CONDITION WHERE THE PLANT MATERIAL HAS BEEN SUPPLIED BY THE OWNER THROUGH A PLANT PROCUREMENT PROGRAM WITH A MYKE PRO 2-YEAR WARRANTY, THE LANDSCAPE CONTRACTOR'S WARRANTY OF PLANT MATERIAL SHALL BEGIN FROM THE TIME OF HANDLING PLANT MATERIAL AT TIME OF DELIVERY THROUGH INSTALLATION AND END AFTER SUBSTANTIAL COMPLETION AND FINAL PUNCH-LIST APPROVAL BY LANDSCAPE ARCHITECT.
- 23. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE COLLECTION, REMOVAL, AND PROPER DISPOSAL OF ANY AND ALL DEBRIS GENERATED DURING THE INSTALLATION OF THE LANDSCAPE CONSTRUCTION.
- 24. ALL LANDSCAPE AREAS SHALL BE WATERED BY AN AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL UTILIZE A RAIN SENSOR. DRIP IRRIGATION SHALL BE UTILIZED AT LANDSCAPE BEDS.
- 25. COORDINATION WITH THE OWNER AND GENERAL CONTRACTOR FOR SLEEVE LOCATIONS AND TIMING OF SLEEVE INSTALLATION. ALL SLEEVING REQUIRED UNDER HARDSCAPE SURFACES FOR THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
- 26. COORDINATE LANDSCAPE PLANTING WITH IRRIGATION CONTRACTOR. THE TREE PLANTINGS SHALL BE IN PLACE BEFORE IRRIGATION LINE ROUTING BEGINS. WATER TREES BY HAND UNTIL IRRIGATION SYSTEM IS FULLY FUNCTIONAL. SHRUBS AND PERENNIALS SHALL NOT BE INSTALLED UNTIL THE IRRIGATION SYSTEM IS FULLY FUNCTIONAL. THE IRRIGATION SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL IN ALL LAWN AREAS BEFORE SOD IS PLACED.



SHRUB PLANTING

CURVING SHAPES WHERE INDICATED. 4" MULCH LAYER SHOVEL-CUT EDGE PREPARED TOPSOIL - COMPACTED OR UNDISTURBED SOIL

2) MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.

3) BALL OF PLANT TO BE KEPT MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING. ADD ROOT STIMULATOR TO SURFACE IMPEDIATELY AFTER

4) PLANTING DEPTH OF ROOTBALL SHALL BE EQUAL TO ITS ORIGINAL PLANTING DEPTH AT NURSERY.

PLACE ROOTBALL ON UNEXCAVATED OR TAMPED S

TYP. SCARIFY HOLE & BACKFILL WITH SOIL EXCAVATED FROM

HOLE & SPECIFIED AMENDMENTS.

5) SET TOP OF ROOT BALL 1-2

6) REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM THE UPPER 1/3

PLANTING AS PER MANUFACTURER'S RECOMMENDATIONS

NEW SOD AREA -CULTIVATED SOIL

SOD INSTALLATION NOTES: I) FINISHED GRADES SHALL BE ACCURATE. 2) CULTIVATE ENTIRE AREA TO A MINIMUM 6" DEPTH. EXCEPTIONS TO AREAS MAY BE MADE IF TREE ROOTS ARE ENCOUNTERED MITHIN THE DRIPLINE OF EXISTING TREES. HAND RAKE SMOOTH. 3) ADD ADDITIVES (AS PER SOIL TEST RECOMMENDATIONS) AND TILL INTO SOIL

<u>SPACING DIAGRAM</u>

BREAK UP EXISTING

AROUND ROOTS.

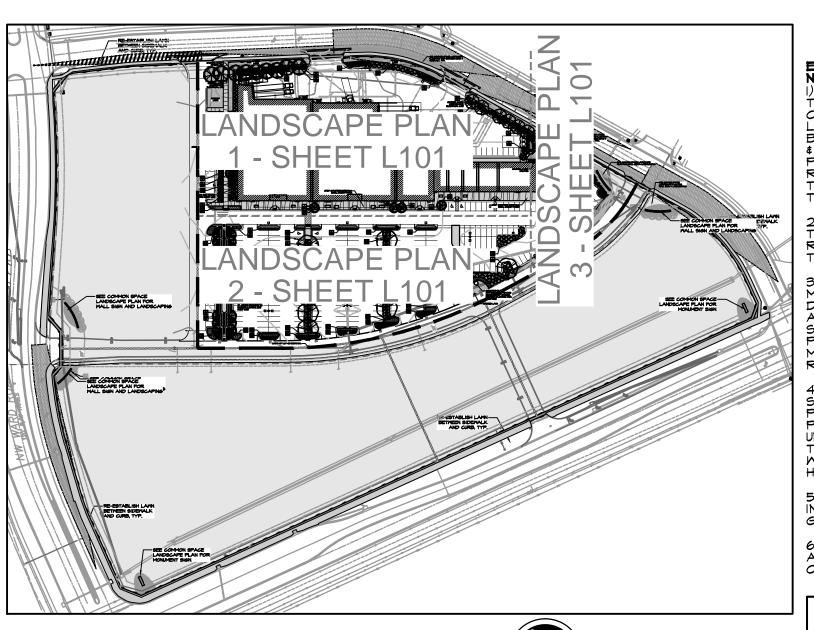
8) APPLY 4" TH LAYER OF MULCH ON PERENNIAL

OPSOIL TO A DEPTH OF

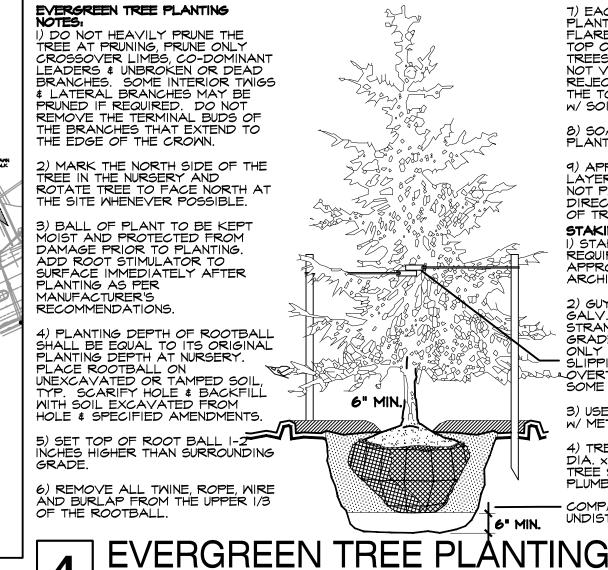
SCALE: N.T.S.

SHOVEL-CUT EDGING

SOD INSTALLATION



REFERENCE PLAN **SCALE: NTS**



7) EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL W/ SO!! DECIDUOUS TREE PLANTING NOTES: I) DO NOT HEAVILY PRUNE THE TREE AT PRUNING, PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT CROSSOVER LIMBS, CO-DOMINANT LEADERS & UNBROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS & LATERAL BRANCHES MAY BE PRUNED IF REQUIRED. DO NOT REMOVE THE TERMINAL BUDS OF THE BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

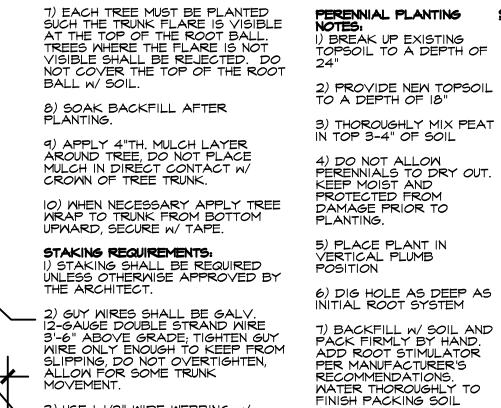
SCALE: N.T.S.

9) APPLY 4"TH. MULCH LAYER AROUND TREE, DO NOT PLACE MULCH IN DIRECT CONTACT W/ CROWN OF TREE TRUNK. STAKING REQUIREMENTS: I) STAKING SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE ARCHITECT.

2) GUY WIRES SHALL BE
GALY. 12-GAUGE DOUBLE
STRAND WIRE 3'-6" ABOVE
GRADE; TIGHTEN GUY WIRE
ONLY ENOUGH TO KEEP FROM
SLIPPING, DO NOT
OVERTIGHTEN, ALLOW FOR
SOME TRUNK MOVEMENT.

3) USE 1-1/2" WIDE WEBBING W/ METAL GROMMETS 4) TREE STAKES SHALL BE 2" DIA. × 8'-0" LODGEPOLE PINE TREE STAKES, KEEP STAKES PLUMB AND EVENLY SPACED

OF THE ROOTBALL. ECIDUOUS TREE PLANTING



3) USE 1-1/2" WIDE WEBBING W/ METAL GROMMETS 4) TREE STAKES SHALL BE 2" DIA. × 8'-0" LODGEPOLE PINE TREE STAKES, KEEP STAKES PLUMB AND EVENLY SPACED.

COVER PLANTS COMPACTED OR UNDISTURBED SOIL

Z Z Z Z S E E 4) LAY AND ROLL SOD. WATER THOROUGHLY

SPACING REQUIREMENT

GRADE

CONTAINER

compacted or

UNDISTURBED

REVISION: /1\ FPD REVISIONS 9/20/19

DESIGN GROUP

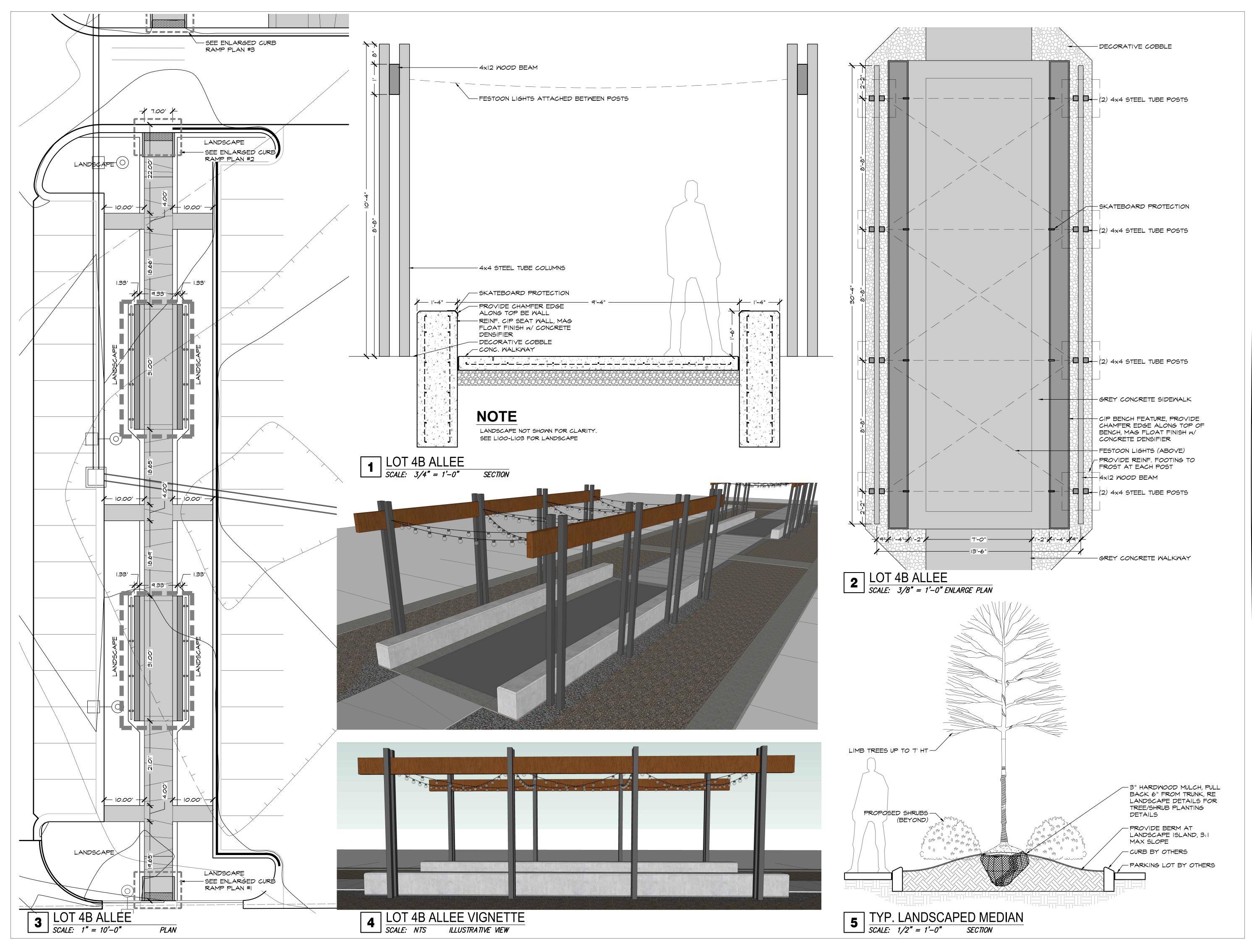
8021 SANTA FE DRIVE OVERLAND PARK, KS 66204

WWW.LORAXDESIGNGROUP.COM

M

O

AUGUST 28, 2019 LANDSCAPE PLAN





SUMMIT ORCHARD.

NW CHIPMAN RD & NW WARD RD

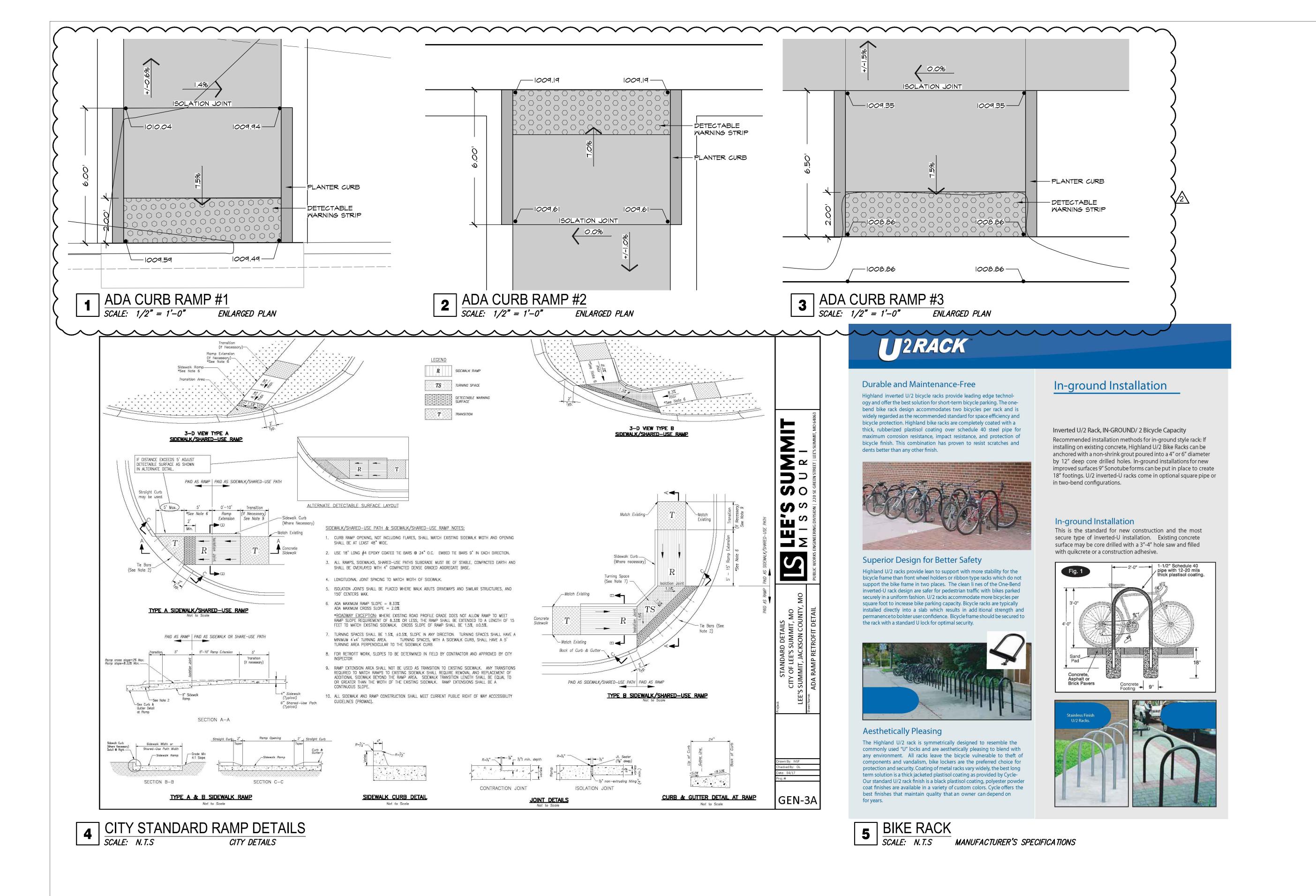
LEE'S SUMMIT, MISSOURI 64086

REVISION:

FPD REVISIONS 9/20/19

AUGUST 28, 2019 SITE DETAILS

L201



DESIGN GROUP

8021 SANTA FE DRIVE

OVERLAND PARK, KS 66204

WWW.LORAXDESIGNGROUP.COM



NW CHIPMAN RD & NW WARD RD LEE'S SUMMIT, MISSOURI 64086

LOT 4B FINAL DEVELOPMENT PLAN

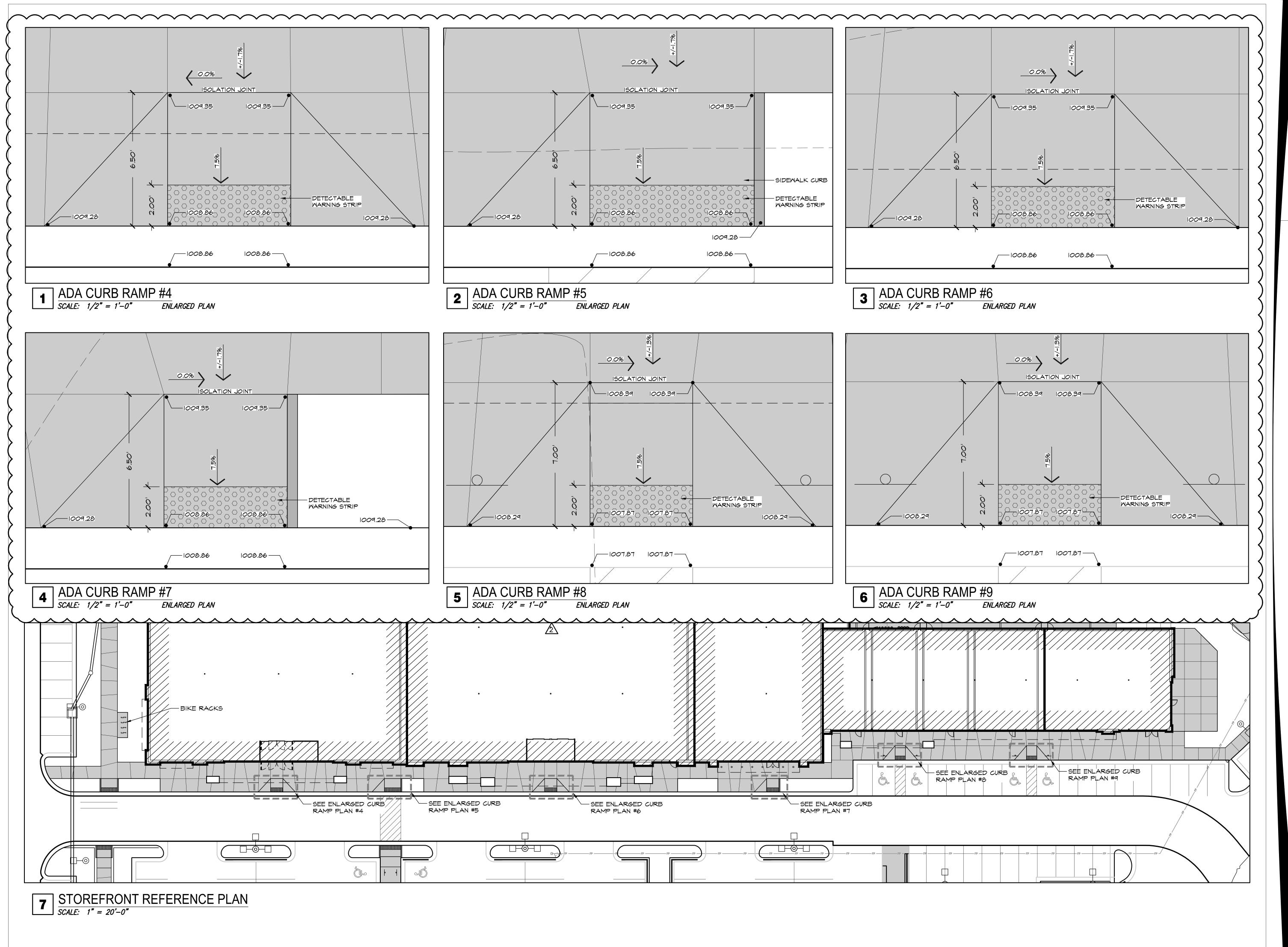
 Λ

REVISION:

FPD REVISIONS 9/20/19
REVISIONS PER
CITY COMMENTS 10/1/19

AUGUST 28, 2019 SITE DETAILS

1 202







SUMMIT ORCHARD:

NW CHIPMAN RD & NW WARD RD

LEE'S SUMMIT, MISSOURI 64086

REVISION:

FPD REVISIONS 9/20/19
REVISIONS PER
CITY COMMENTS 10/1/19

AUGUST 28, 2019 SITE DETAILS

L203

1.01 DESCRIPTION:

DIVISION 26 SHALL BE GOVERNED BY ALL APPLICABLE PROVISIONS OF THE CONTRACT DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIALS, EQUIPMENT, APPARATUS, ELECTRICAL SYSTEMS AND INCIDENTALS REQUIRED FOR COMPLETE AND WORKING INSTALLATION. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY LABOR, EQUIPMENT, TOOLS, INSURANCE, TAXES SERVICES; AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH COMPLETION OF ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

1.02 STANDARDS, REGULATIONS AND CODES:

- THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCATION AUTHORITIES HAVING JURISDICTION. WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCEPTABLE TO THE ARCHITECT/ENGINEER, THE NATIONAL ELECTRICAL CODE SHALL APPLY TO THIS WORK.
- B. THE CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTIONS OF SERVICES. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED THERE WITH.
- THE ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM ELECTRICAL WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED.
- ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND INSTALLATION.

1.03 LOCAL CONDITIONS:

- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE LOCAL CONDITIONS AND EXISTING INSTALLATIONS AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT ASSOCIATED WORK. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND PROTECT THEM DURING THE EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF THIS CONTRACT.
- C. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR, AND INCLUDED ALL COSTS IN PROPOSAL. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION.

1.04 WORKMANSHIP:

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, AND NOISE LEVEL, ETC.

1.05 CUTTING AND PATCHING:

A. ALL NECESSARY CUTTING, DRILLING AND PATCHING SHALL BE PROVIDED BY THIS CONTRACTOR. STRUCTURAL MEMBERS SHALL NOT BE DISTURBED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. ALL AREAS DISTURBED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE NEATLY REPAIRED AND REFINISHED TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SUITABLE TO THE ARCHITECT/ ENGINEER.

1.06 OPERATION DURING CONSTRUCTION:

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OPERATION, SERVICE AND MAINTENANCE OF ALL NEW EQUIPMENT DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE OWNER OF THE COMPLETED PROJECT. WARRANTY PERIODS SHALL NOT COMMENCE UNTIL FINAL ACCEPTANCE BY THE OWNER.

1.07 SAFETY REGULATIONS:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE GOVERNING SAFETY REGULATIONS, INCLUDING OSHA REGULATIONS. PROVIDE SAFETY LIGHTS, GUARDS AND SIGNS REQUIRED.

1.08 HOUSEKEEPING:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING STOCKS OF MATERIAL AND EQUIPMENT STORED ON THE PREMISES IN A NEAT AND ORDERLY MANNER.
- THE CONTRACTOR SHALL CLEAN AND MAINTAIN OWN PORTION OF THE WORK AS SPECIFIED IN
- THE CONTRACTOR SHALL REMOVE FROM THE PREMISES ALL WASTE MATERIAL PRESENT AS A RESULT OF ASSOCIATED WORK.

1.09 CONNECTION AND ALTERATION TO EXISTING SYSTEMS:

- CONNECTION TO THE EXISTING BUILDING ELECTRICAL, MUST BE ACCOMPLISHED UNDER THIS CONTRACT. SYSTEM "DOWNTIME" DUE TO CONNECTION SHALL BE KEPT TO AN ABSOLUTE MINIMUM. THE OWNER'S REPRESENTATIVE SHALL JUDGE IF AT WHAT TIME, AND FOR WHAT LENGTH OF TIME A SHUT-DOWN CAN BE TOLERATED.
- PROVIDE ALL TEMPORARY PIPING AND WIRING SYSTEMS REQUIRED DURING CONSTRUCTION IN ORDER TO KEEP ALL EXISTING SYSTEMS FUNCTIONING.
- DEMOLITION, CUTTING AND PATCHING TO RESTORE SURFACES TO ORIGINAL CONDITION AS NECESSITATED FOR ACCESS TO WORK PERFORMED BY THE CONTRACTOR OR ASSOCIATED SUBCONTRACTORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHEN ADDING BREAKER(S) TO AN EXISTING PANELBOARD, MATCH PANELBOARD MANUFACTURER, SERIES, KAIC RATING, BREAKER TYPE, ETC.

1.10 GRAPHIC REPRESENTATION AND JOB CONDITIONS:

- A. THE DRAWINGS SHALL SERVE AS WORKING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT; ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED; AND DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM.
- THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS IN THE REPRESENTATION OF THE GENERAL CONSTRUCTION WORK.
- ARRANGE WORK IN A NEAT, WELL ORGANIZED MANNER. COORDINATE WORK WITH OTHER TRADES INVOLVED.

1.11 GUARANTEES:

THE CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE OF THE WORK, OR AS NOTED IN EACH SECTION.

1.12 SUBSTITUTIONS:

- THE MATERIALS, PRODUCTS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS ESTABLISHED A STANDARD OF QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION.
- CONTRACTOR'S BIDS SHALL BE BASED ON THE MATERIAL MENTIONED OR SPECIFIED, AND ANY PROPOSALS FOR A SUBSTITUTION SHALL BE MADE IN WRITING TO THE ARCHITECT/ ENGINEER ALLOWING ADEQUATE TIME FOR APPROPRIATE ACTION. THE PRODUCTS OF OTHER MANUFACTURERS MAY BE ACCEPTED, IF IN THE OPINION OF THE ARCHITECT/ENGINEER, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED. THE BURDEN OF PROOF OF EQUALITY IS UPON THE
- WHEREVER SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE ALL ITEMS OF COST OF THE REVISED DESIGN AND CONSTRUCTION.

1.13 SHOP DRAWINGS AND PRODUCT DATA:

- THE CHECKING OF SHOP DRAWINGS IS A GRATUITOUS ASSISTANCE AND IN NO WAY RELIEVES THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND APPARATUS, AND SUCH OTHER ILLUSTRATIVE MATERIALS AS MAY BE CONSIDERED NECESSARY BY THE ARCHITECT/ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

1.14 OPERATING AND MAINTENANCE BROCHURE:

AT THE COMPLETION OF THE PROJECT, EACH CONTRACTOR SHALL PROVIDE THREE (3) HARD BOUND VOLUMES OF MANUALS CONTAINING OPERATING SERVICE AND LUBRICATION INSTRUCTIONS, AND PARTS LISTS FOR ALL MAJOR EQUIPMENT AND MANUFACTURER'S GUARANTIES OR WARRANTIES.

1.15 RECORD DRAWINGS:

ON COMPLETION OF THE PROJECT, SUBMIT TWO NEW SETS OF BLUELINES PRINTS WITH ALL FIELD CHANGES NEATLY NOTED. THE ORIGINAL ROUTING AND LAYOUT SHALL BE CLEARLY MARKED OUT.

END OF SECTION

ELECTRICAL SPECIFICATIONS

1.01 SCOPE:

- A. THE WORK INCLUDED UNDER THIS CONTRACT CONSISTS OF THE FURNISHING OF ALL LABOR. MATERIALS, TOOLS, TRANSPORTATION, SERVICES, ETC., NECESSARY TO COMPLETE THE INSTALLATION OF THE ELECTRICAL SYSTEMS AND OTHER ITEMS HEREIN LISTED, ALL AS DIRECTED BY THE ARCHITECT OR ENGINEER, WHICH WORK IS COMPRISED OF, BUT NOT LIMITED TO THE FOLLOWING PRINCIPAL ITEMS:
 - ELECTRICAL SYSTEM FOR LIGHT AND POWER:
 - SYSTEMS OF CONDUIT, CONDUCTORS, AND BOXES.
 - LIGHTING FIXTURES AND LAMPS.
 - COMPLETE LIGHTING AND POWER SYSTEMS.
 - d. ALL SYSTEMS, WIRING AND CONDUIT AS REQUIRED.
 - CONTROL WIRING AND ELECTRICAL INSTALLATION AND CONNECTIONS FOR ITEMS IN OTHER CONTRACTS AS MAY BE LISTED IN THE DRAWINGS.
 - ROUGH-IN AND FINAL CONNECTION TO EQUIPMENT FURNISHED BY OTHERS.
- RACEWAY WIRING SYSTEMS SHALL BE CONCEALED IN ALL FINISHED PARTS OF THE BUILDING, WHERE POSSIBLE. WHERE THE RACEWAYS ARE EXPOSED, THEY SHALL BE RUN PARALLEL WITH THE BUILDING WALLS IN A NEAT AND WORKMANLIKE MANNER. SHOULD IT APPEAR NECESSARY TO EXPOSE ANY CONDUIT OR WIRING IN FINISHED SPACES, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY AND THIS CONTRACTOR SHALL REARRANGE ASSOCIATED WORK AS DIRECTED TO FACILITATE AN APPROVED INSTALLATION. CONTRACTOR TO COORDINATE WITH MECHANICAL TRADES TO AVOID DUCTWORK AND PIPING.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE LIAISON WITH ELECTRICAL AND COMMUNICATION COMPANIES. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED EQUIPMENT AND CONNECT AS REQUIRED TO COMPLETE AN OPERATING SERVICE TO THE BUILDING.

1.02 RACEWAYS:

ALL ELECTRICAL EXTERIOR CONDUCTORS ARE TO BE INSTALLED IN SCHEDULE 40 PVC RACEWAYS, UNLESS SPECIFICALLY SPECIFIED OR NOTED OTHERWISE. PROVIDE PULL WIRES IN ALL EMPTY CONDUIT SYSTEMS. IDENTIFY TERMINUS OF EACH PULL WIRE.

- INTERIOR ELECTRICAL CONDUCTORS: SOFT ANNEALED COPPER WITH CONDUCTIVITY 98% OF THAT OF PURE, STRANDED COPPER, 90 DEGREE - 600V INSULATION AND EQUAL TO GENERAL CABLE COMPANY. WIRE AND CABLE FOR ALL BRANCH CIRCUITS ENTERING BUILDINGS (FROM OUTDOORS) SHALL BE THHN-2/THWN-2. MINIMUM WIRE SIZE SHALL BE #10 GAUGE AWG. CONTROL WIRING MAY BE #14 GAUGE.
- EXTERIOR ELECTRICAL CONDUCTORS: SOFT ANNEALED COPPER WITH CONDUCTIVITY 98% OF THAT OF PURE, STRANDED COPPER, 90 DEGREE - 600V INSULATION AND EQUAL TO GENERAL CABLE COMPANY. WIRE AND CABLE FOR ALL EXTERIOR BRANCH CIRCUITS SHALL BE RHH-2/RHW-2/USE-2. MINIMUM WIRE SIZE SHALL BE #10 GAUGE AWG. CONTROL WIRING MAY BE #14 GAUGE.

1.04 GROUNDING:

GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH N.E.C. AND AS SPECIFIED HEREIN. PROVIDE A SEPARATE GROUNDING CONDUCTOR FOR ALL LIGHTING, RECEPTACLE AND EQUIPMENT CIRCUITS. ALL CABINETS, SWITCHBOARDS, EQUIPMENT CASES, MOTOR FRAMES, INTERIOR METAL COLD WATER PIPING SYSTEMS, AND SYSTEM NEUTRAL CONDUCTORS SHALL BE EFFECTIVELY GROUNDED. USE SOLDERLESS PRESSURE TYPE CONNECTORS, NO PERFORATED STRAP CONNECTORS WILL BE ALLOWED. INSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED. PROVIDE BONDING JUMPER INSIDE ALL FLEXIBLE CONDUIT. GROUNDING PER N.E.C. 250, AND ANY LOCAL REQUIREMENTS.

1.05 SPLICE AND TAPS:

A. MAKE SPLICES AT JUNCTION BOXES, PULL BOXES, OR OUTLET BOXES ONLY.

1.06 CABINETS, JUNCTION AND PULL BOXES:

A. FLUSH OR SURFACE MOUNTED AS INDICATED ON DRAWINGS. PROVIDE WHERE SHOWN ON DRAWINGS AND WHERE REQUIRED BY CODE. CONSTRUCT OF CODE GAUGE STEEL FOR FLUSH SURFACE MOUNTING.

1.07 LIGHTING FIXTURES:

REFER TO LUMINAIRE SCHEDULE FOR FIXTURE SPECIFICATIONS.

1.08 IDENTIFICATION

- A. CONDUCTOR IDENTIFICATION MATERIALS: COLOR-CODING CONDUCTOR TAPE: COLORED, SELF-ADHESIVE VINYL TAPE NOT LESS THAN 3 MILS BY 1 TO 2 INCHES WIDE.
- EQUIPMENT IDENTIFICATION LABELS: STENCILED LEGEND: IN NONFADING WATERPROOF BLACK INK OR PAINT. MINIMUM LETTER HEIGHT SHALL BE 1 INCH.

ELECTRICAL SYMBOLS:

- ЭⅢ ►► BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL PHASE CONDUCTORS

GROUND CONDUCTOR

1/3, 1/3/5 INDICATES X/X= 2-POLE C.B., X/X/X = 3-POLE C.B

→ HOMERUN INDICATED LIKE THIS INDICATED THREE SEPARATE SINGLE PHASE CIRCUITS. EACH CIRCUIT TO HAVE DEDICATED NEUTRAL.

---- CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.

JUNCTION/PULL BOX.

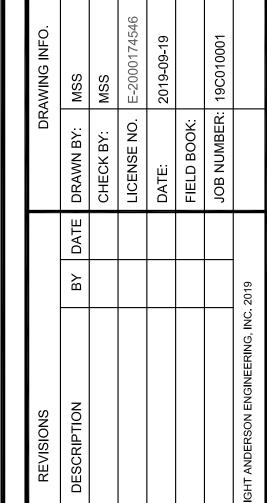
 $^{\mathsf{P}^{\#}}\bigcirc - \square$ LIGHT STANDARD WITH SINGLE LUMINAIRE "P#" DENOTES POLE TYPE. REFER TO POLE SCHEDULE. LETTER DENOTES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE.

LIGHT STANDARD WITH TWO LUMINAIRES AT 180°. "P#" DENOTES POLE TYPE, REFER TO POLE SCHEDULE. LETTER DENOTES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE.

LIGHT STANDARD WITH THREE LUMINAIRES AT. 90° FROM EACH OTHER. "P#" DENOTES POLE TYPE. REFER TO POLE SCHEDULE, LETTER DENOTES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE.

> DISCONNECT SWITCH, SIZE AND TYPE AS NOTED. TOP MOUNTED NOT TO EXCEED 60"AFF.





SINGLE CONDUIT DIRECT BURIED

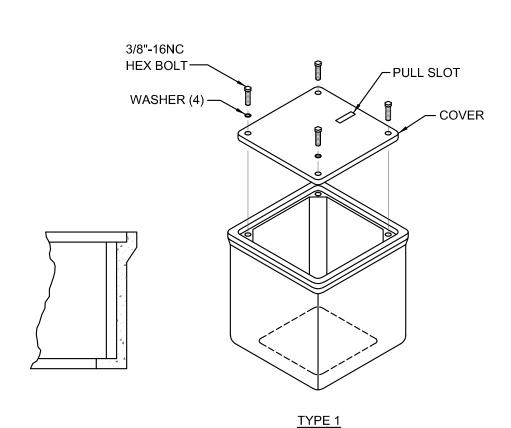
ON SITE PLAN

ot conduit quantities as indicated

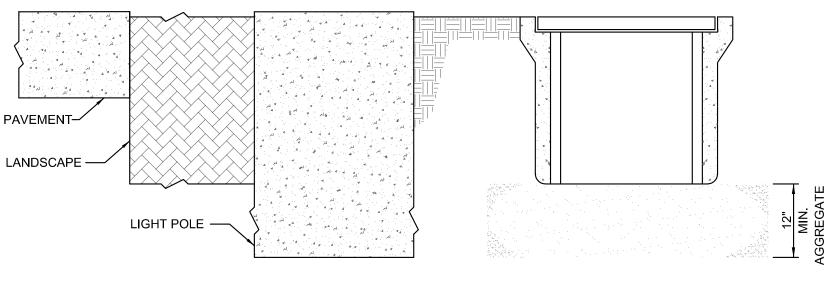
WARNING TAPE CENTERED

MULTIPLE RUNS

OVER DUCT BANK RUN



FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX



JUNCTION BOX DETAIL
NO SCALE

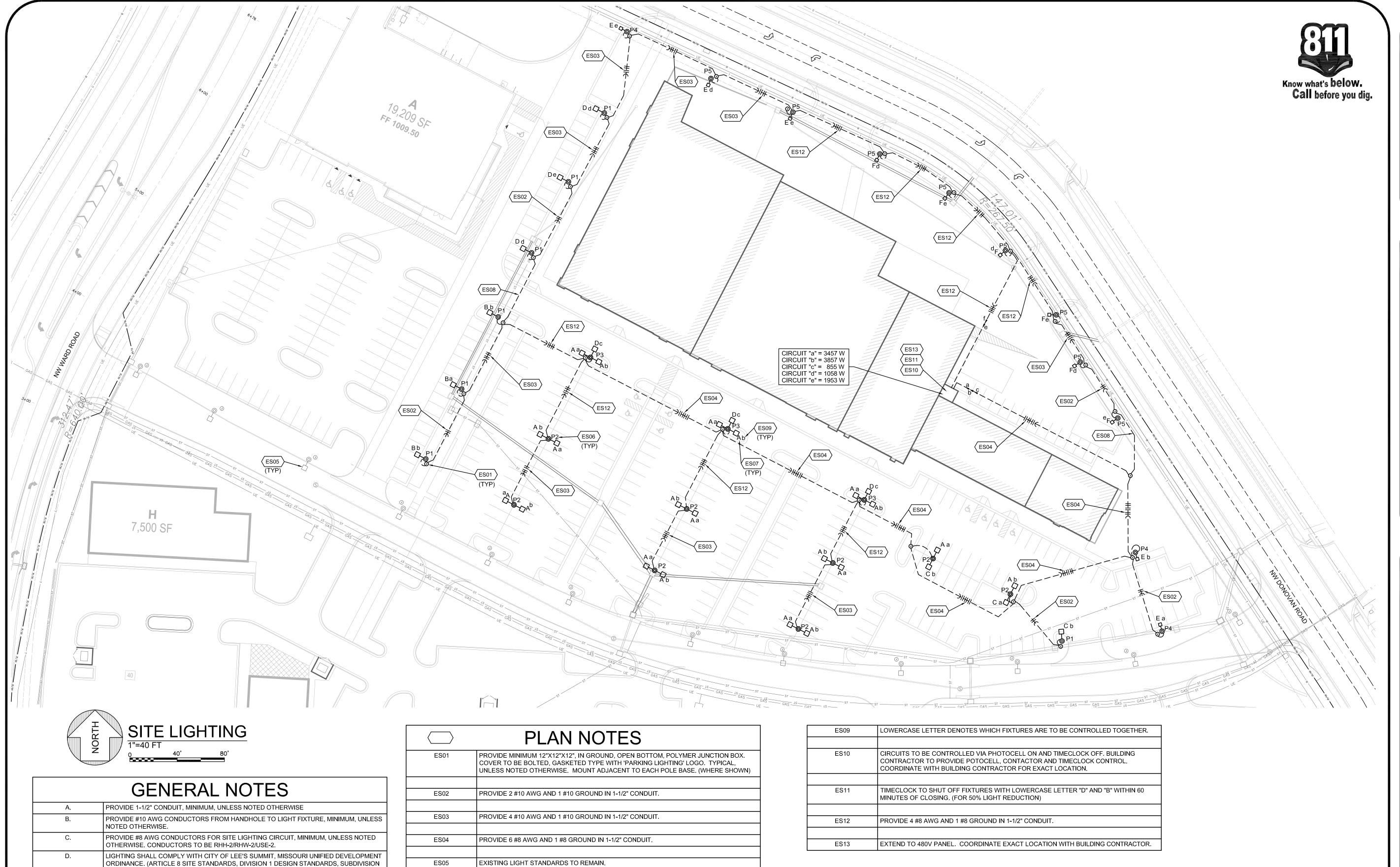
BACKFILL -

(7)

ATION SUMMIT, E'S SUMMIT, FIC. $\overline{\mathbf{C}}$ Ш S \bigcirc

OF MISS `MONICA'' SANTOYQ SANTOS X mica Monte NUMBER E-2000174546 🔾 Monica S'Santòs - Electrical

SHEET NUMBER



5 LIGHTING STANDARDS.)

ES06

ES07

ES08

"P#" DENOTES POLE TYPE. REFER TO POLE SCHEDULE FOR SPECIFICATION.

CAPITAL LETTER DENOTES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE.

PROVIDE 1-1/2" SPARE CONDUIT WITH PULL STRING.

DRAWING INFO.

BRAWN BY: SM/MSS
ICENSE NO. E-2000174546

ATE: 2019-09-19
IELD BOOK: CONSULTING ENGINATE: 2019-09-19
IELD BOOK: Ransas City, Missouri 64102 email: antella@antella-inc.com www.antella.co

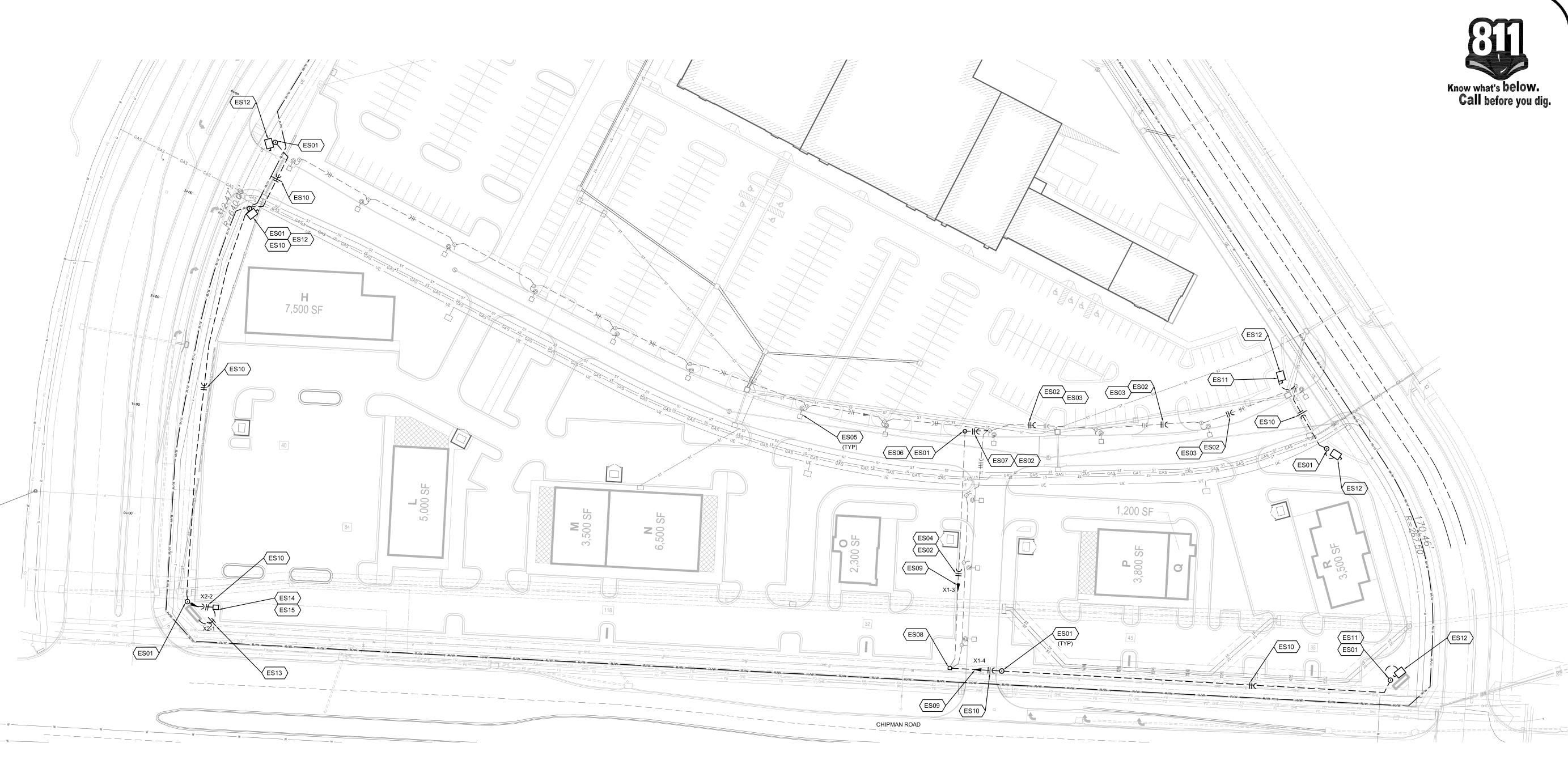
DESCRIPTION BY DATE DESCRIPTION DATE DATE DATE DATE DATE	DRAWING INFO.	SM/MS	SSW	LICENSE NO. E-2000174546	2019-09-19		19C010001	
DESCRIPTION BY DESCRIPTION BY DPYRIGHT ANDERSON ENGINEERING, INC. 2019	'AO		снеск ву:	LICENSE NO.	DATE:	FIELD BOOK:	JOB NUMBER:	
DESCRIPTION DESCRIPTION DPYRIGHT ANDERSON ENGINEERING, INC. 20		DATE						
O. DESCRIPTION O. COPYRIGHT ANDERSON ENGINEERING, INC.		ΑЯ						2019
	REVISIONS	NO. DESCRIPTION						© COPYRIGHT ANDERSON ENGINEERING, INC.
	A STATE OF THE STA							The state of the s

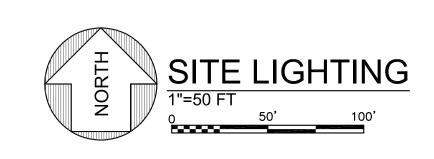
	=	Z
)T 4	ISSOUR	ر اط د
	ĬŢ, M	NIL
Z Z O Z	EE'S SUMM	<u>한</u>
S	LEE'	<u>Ц</u>

MONICA
SANTOYO
SANTOYO
SANTOS
NUMBER
E-2000174546

Monica S'Santos - Electrical

E101
XX of XX





	GENERAL NOTES
A.	PROVIDE 1-1/2" CONDUIT, MINIMUM, UNLESS NOTED OTHERWISE
B.	PROVIDE #10 AWG CONDUCTORS FROM HANDHOLE TO LIGHT FIXTURE, MINIMUM, UNLESS NOTED OTHERWISE.
C.	PROVIDE #8 AWG CONDUCTORS FOR SITE LIGHTING CIRCUIT, MINIMUM, UNLESS NOTED OTHERWISE. CONDUCTORS TO BE RHH-2/RHW-2/USE-2.
D.	LIGHTING SHALL COMPLY WITH CITY OF LEE'S SUMMIT, MISSOURI SECTION 5800 STREET LIGHTING DESIGN CRITERIA.

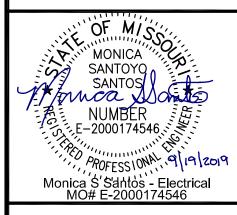
	PLAN NOTES
ES01	PROVIDE MINIMUM 12"X12"X12", IN GROUND, OPEN BOTTOM, POLYMER JUNCTION BOX. COVER TO BE BOLTED, GASKETED TYPE WITH 'SITE LIGHTING' LOGO. TYPICAL, UNLESS NOTED OTHERWISE.
ES02	PROVIDE 2 #4 AWG AND 1 #4 GROUND.
ES03	ROUTE THROUGH EXISTING 1-1/2" CONDUIT FOR ROADWAY LIGHTING. LABEL CONDUCTORS "SIGNAGE"
ES04	ROUTE THROUGH SPARE 2" CONDUIT.
ES05	EXISTING LIGHT STANDARDS TO REMAIN.
ES06	INSTALL PULL BOX AND EXTEND SPARE 2" CONDUIT TO NEW PULLBOX.
ES07	EXTEND NEW 1-1/2" CONDUIT TO EXISTING PULLBOX.
ES08	EXISTING LIGHTING CONTROLLER "X1".
ES09	EXTEND SIGNAGE CIRCUIT TO SPARE BREAKER. REPLACE BREAKER WITH A 2 POLE, 20 AMP BREAKER WITH MATCHING AIC RATING. LABEL "SITE SIGNAGE"

ES10	PROVIDE 2 #6 AWG AND 1 #6 GROUND IN 1-1/2" CONDUIT.
ES11	PROVIDE A SINGLE PHASE 240V TO 120V STEPDOWN TRANSFORMER IN NEMA 3R ENCLOSURE FOR SIGNAGE POWER. REFER TO RISER DIAGRAM SHEET E201 FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE WITH SIGNAGE SUPPLIER FOR EXACT POWER REQUIREMENTS. MAKE ALL FINAL CONNECTIONS.
ES12	PROVIDE A 2 POLE, 30A, 250V, FUSIBLE DISCONNECT IN NEMA 3R ENCLOSURE FOR SIGNAGE DISCONNECTING MEANS. FUSE AT 20 AMP, MOUNT NEXT TO TRANSFORMER.
ES13	PROVIDE 2 #10 AWG AND 1 #10 GROUND IN 1-1/2" CONDUIT.
ES14	PROVIDE NEW LIGHTING CONTROLLER "X2" REFER TO SHEET E301 FOR SPECIFICATIONS.
ES15	COORDINATE TRANSFORMER LOCATION WITH KCP&L PRIOR TO ROUGH-IN.

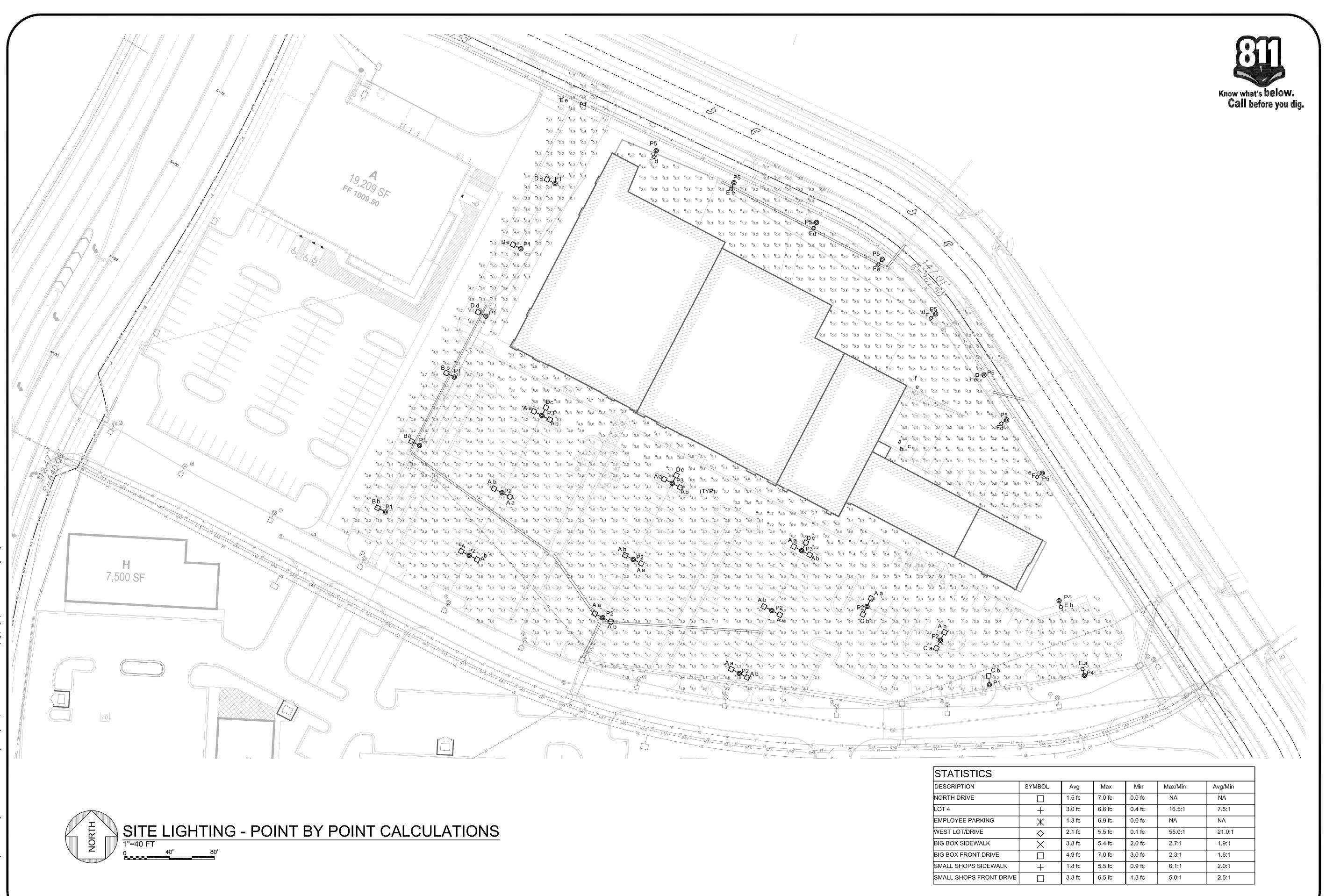
SCONSULTING ENGINEERS INC.

	REVISIONS			DR,	DRAWING INFO.
NO.	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY: SM/MSS	SM/MSS
				CHECK BY:	MSS
				LICENSE NO. E-2000174546	E-2000174546
				DATE:	2019-09-19
				FIELD BOOK:	
				JOB NUMBER: 19C010001	19C010001
) ()	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

SUMMIT LOT 4
LEE'S SUMMIT, MISSOURI
SIGNAGE LIGHTING PL,



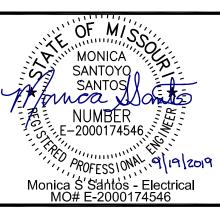
E102 XX of XX





	REVISIONS			DR.	DRAWING INFC
NO.	DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	SM/MS
				снеск ву:	SSM
				LICENSE NO. E-20001745	E-20001745
				DATE:	2019-09-19
				FIELD BOOK:	
				JOB NUMBER: 19C010001	19C010001
00 0	© COPYRIGHT ANDERSON ENGINEERING, INC. 2019	2019			

SUMMIT LOT 4
LEE'S SUMMIT, MISSOURI
SITE LIGHTING POINT BY POIN



E103
XX of XX



ELECTRICAL RISER & SCHEDULES SUMMIT LOT 4 LEE'S SUMMIT, MISSOURI

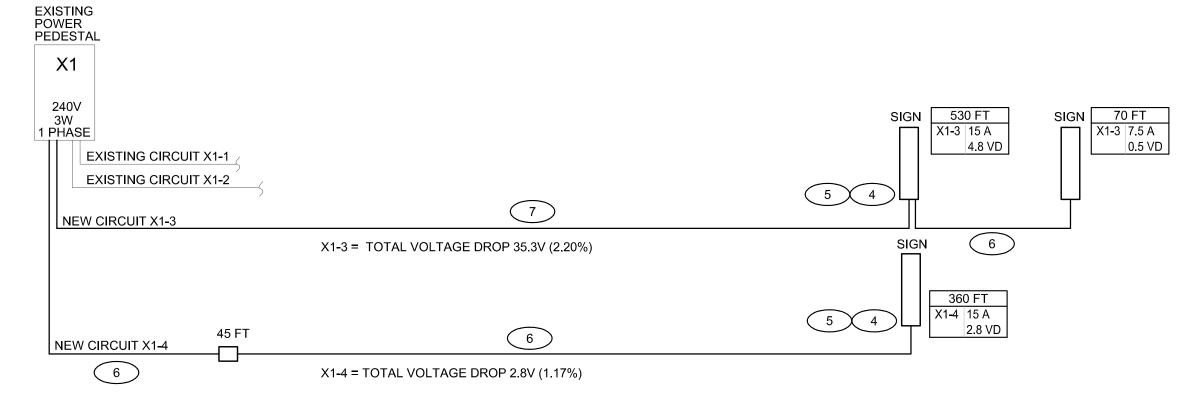
MONICA
SANTOYO
SANTOS
NUMBER
E-2000174546

SHEET NUMBER XX of XX

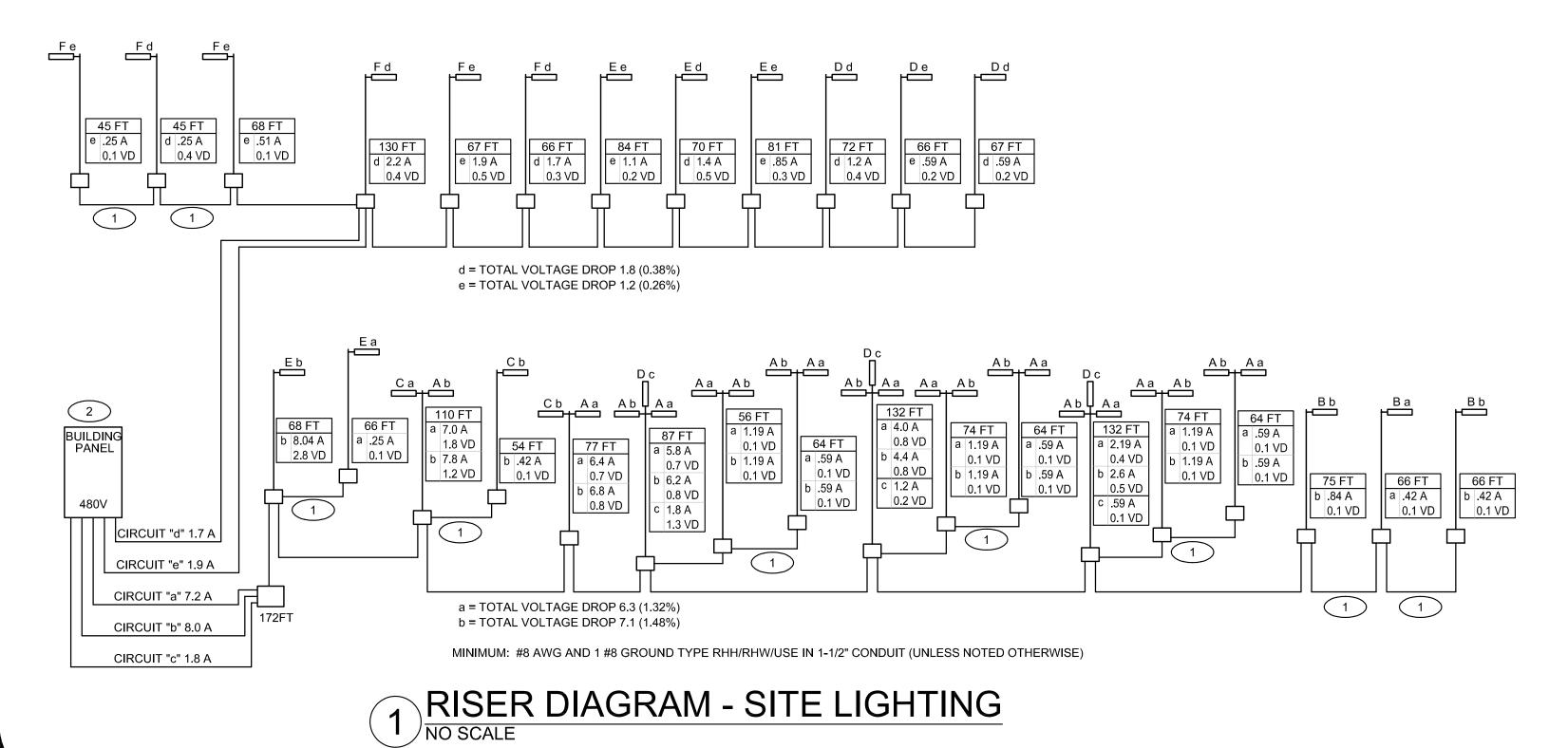
X-2 3 240V 3W 1 PHASE 70 FT X2-2 7.5 A 5.4 VD FED FROM NEW TRANSFORMER— X2-1 = TOTAL VOLTAGE DROP 0.5 (0.23%) X2-2 = TOTAL VOLTAGE DROP 5.8 (2.43%)

3 RISER DIAGRAM - WEST SIGNAGE

MINIMUM: #8 AWG AND 1 #8 GROUND TYPE RHH/RHW/USE IN 1-1/2" CONDUIT (UNLESS NOTED OTHERWISE)



2 RISER DIAGRAM - EAST SIGNAGE



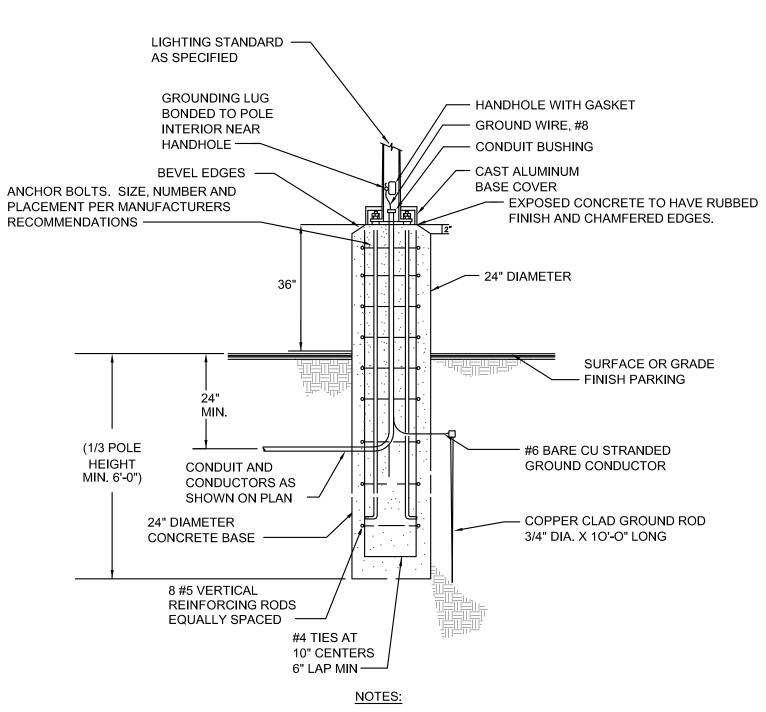
							LUMINA	AIRE SCHEDULE	
TYPE	MOUNTING	LAMP	LUMENS	COLOR TEMPERATURE	CRI	WATT	VOLTAGE	MANUFACTURER	DESCRIPTION
А	POLE	LED	35000 lm	4000 K	80	285W	480V	HUBELL - KIM LIGHTING ALT2-100L-285-4K8-4-480 -A46-LG-BC-DF POLE: SEE POLE SCHEDULE	KIM ALTITUDE 2.0 LED SERIES, GRAY, 3.5" TALL, 23.44" LONG, 16" WIDE, TYPE IV DISTRIBUTION, 480V, ARM MOUNT, LIGHT GRAY, WITH 480V FUSING AND BACKLIGHT CONTROL. (BUG RATING: B1/U0/G3), REFER TO PLANS FOR CONFIGURATION AND POLE REFERENCE FOR POLE TYPE PROVIDE NUMBER OF LUMINAIRES PER POLE AS SHOWN ON PLANS.
В	POLE	LED	25000 lm	4000 K	80	200W	480V	HUBELL - KIM LIGHTING ALT2-100L-200-4K8-3-480-A46- LG-BC-DF POLE: SEE POLE SCHEDULE	KIM ALTITUDE 2.0 LED SERIES, GRAY, 3.5" TALL, 23.44" LONG, 16" WIDE, TYPE III DISTRIBUTION, 480V, ARM MOUNT, LIGHT GRAY, WITH 480V FUSING AND BACKLIGHT CONTROL. (BUG RATING: B1/U0/G2), REFER TO PLANS FOR CONFIGURATION AND POLE REFERENCE FOR POLE TYPE. PROVIDE NUMBER OF LUMINAIRES PER POLE AS SHOWN ON PLANS.
С	POLE	LED	25000 lm	4000 K	80	200W	480V	HUBELL - KIM LIGHTING ALT2-100L-200-4K8-4-480-A46- LG-BC-DF POLE: SEE POLE SCHEDULE	KIM ALTITUDE 2.0 LED SERIES, GRAY, 3.5" TALL, 23.44" LONG, 16" WIDE, TYPE IV DISTRIBUTION, 480V, ARM MOUNT, LIGHT GRAY, WITH 480V FUSING AND BACKLIGHT CONTROL. (BUG RATING: B1/U0/G3), REFER TO PLANS FOR CONFIGURATION AND POLE REFERENCE FOR POLE TYPE. PROVIDE NUMBER OF LUMINAIRES PER POLE AS SHOWN ON PLANS.
D	POLE	LED	35000 lm	4000 K	80	285W	480V	HUBELL - KIM LIGHTING ALT2-100L-285-4K8-3-480 -A46-LG-BC-DF POLE: SEE POLE SCHEDULE	KIM ALTITUDE 2.0 LED SERIES, GRAY, 3.5" TALL, 23.44" LONG, 16" WIDE, TYPE III DISTRIBUTION, 480V, ARM MOUNT, LIGHT GRAY, WITH 480V FUSING AND BACKLIGHT CONTROL. (BUG RATING: B1/U0/G3), REFER TO PLANS FOR CONFIGURATION AND POLE REFERENCE FOR POLE TYPE. PROVIDE NUMBER OF LUMINAIRES PER POLE AS SHOWN ON PLANS.
Е	POLE	LED	15000 lm	4000 K	80	122W	480V	HUBELL - KIM LIGHTING ALT1-54L-120-4K8-4W-480 -A46-LG-BC-DF POLE: SEE POLE SCHEDULE	KIM ALTITUDE 2.0 LED SERIES, GRAY, 3" TALL, 18.44" LONG, 14" WIDE, TYPE IV WIDE DISTRIBUTION, 480V, ARM MOUNT, LIGHT GRAY, WITH 480V FUSING AND BACKLIGHT CONTROL. (BUG RATING: B1/U0/G2), REFER TO PLANS FOR CONFIGURATION AND POLE REFERENCE FOR POLE TYPE. PROVIDE NUMBER OF LUMINAIRES PER POLE AS SHOWN ON PLANS.
F	POLE	LED	15000 lm	4000 K	80	122W	480V	HUBELL - KIM LIGHTING ALT1-54L-120-4K8-4-480 -A46-LG-BC-DF POLE: SEE POLE SCHEDULE	KIM ALTITUDE 2.0 LED SERIES, GRAY, 3" TALL, 18.44" LONG, 14" WIDE, TYPE IV DISTRIBUTION, 480V, ARM MOUNT, LIGHT GRAY, WITH 480V FUSING AND BACKLIGHT CONTROL. (BUG RATING: B0/U0/G2), REFER TO PLANS FOR CONFIGURATION AND POLE REFERENCE FOR POLE TYPE. PROVIDE NUMBER OF LUMINAIRES PER POLE AS SHOWN ON PLANS.

	POLE SCHEDULE										
TYPE	POLE HEIGHT	BASE	POLE DIAMETER	MANUFACTURER	DESCRIPTION						
P1	27'	1' CONCRETE BASE	6"X.188	HUBELL - KIM LIGHTING PRA27/A; (SINGLE FIXTURE) PROVIDE WITH VIBRATION DAMPER 1ST MODE.	POLE TO BE 27FT TALL, 6" ROUND ALUMINUM STRAIGHT,.188 THICK. COLOR LIGHT GRAY TO BE CONFIRMED PRIOR TO ORDERING. SINGLE ARM MOUNT						
P2	25'	3' CONCRETE BASE	6"X.188	HUBELL - KIM LIGHTING PRA25/B; (TWO OPPOSING FIXTURES) PROVIDE WITH VIBRATION DAMPER 1ST MODE.	POLE TO BE 25FT TALL, 6" ROUND ALUMINUM STRAIGHT,.188 THICK. COLOR LIGHT GRAY TO BE CONFIRMED PRIOR TO ORDERING. TWO ARM MOUNT 180DEG						
P3	27'	1' CONCRETE BASE	6"X.188	HUBELL - KIM LIGHTING PRA27/T; (THREE FIXTURES) PROVIDE WITH VIBRATION DAMPER 1ST MODE.	POLE TO BE 27FT TALL, 6" ROUND ALUMINUM STRAIGHT,.188 THICK. COLOR LIGHT GRAY TO BE CONFIRMED PRIOR TO ORDERING. THREE ARM MOUNT AT 90 DEG ANGLES						
P4	14'	1' CONCRETE BASE	6"X.188	HUBELL - KIM LIGHTING PRA14/T; (SINGLE FIXTURE)	POLE TO BE 14FT TALL, 6" ROUND ALUMINUM STRAIGHT,.188 THICK. COLOR LIGHT GRAY TO BE CONFIRMED PRIOR TO ORDERING. SINGLE ARM MOUNT						
P5	12'	3' CONCRETE BASE	6"X.188	HUBELL - KIM LIGHTING PRA12/T; (SINGLE FIXTURE)	POLE TO BE 14FT TALL, 6" ROUND ALUMINUM STRAIGHT,.188 THICK. COLOR LIGHT GRAY TO BE CONFIRMED PRIOR TO ORDERING. SINGLE ARM MOUNT						

	RISER DIAGRAM NOTES
1	PROVIDE #10 AWG AND #10 GROUND TYPE RHH/RHW/USE IN 1-1/2" CONDUIT. REFER TO PLANS FOR QUANTITY
2	COORDINATE WITH BUILDING CONTRACTOR EXACT LOCATION OF PANEL PRIOR TO ROUGH-IN.
3	PROVIDE NEW POWER PEDISTAL. REFER TO SHEET E301 FOR DETAILS.
4	CONTRACTOR SHALL PROVIDE SINGLE PHASE 3KVA, 240V TO 120V, 150 DEG RISE, NEMA 3R ENCLOSURE, UL/CL LISTED. STEP DOWN TRANSFORMER. COORDINATE WITH SIGN SUPPLIER ACTUAL VOLTAGE REQUIRED AND WATTAGE PRIOR TO ORDERING TRANSFORMER. MOUNT TO BACKSIDE OF SIGNAGE. COORDINATE EXACT LOCTION PRIOR TO ROUGH-IN.
5	PROVIDE A 2 POLE, 20 AMP FUSIBLE DISCONNECT IN NEMA 3R ENCLOSURE. PROVIDE 20 AMP FUSES. FOR SIGNAGE DISCONNECTING MEANS. COORDINATE WITH SIGNAGE LOAD.
6	PROVIDE #6 AWG AND 1 #6 GROUND TYPE RHH/RHW/USE IN 1-1/2" CONDUIT. REFER TO PLANS FOR QUANTITY.
7	PROVIDE #4 AWG AND 1 #4 GROUND TYPE RHH/RHW/USE IN 1-1/2" CONDUIT. REFER TO PLANS FOR QUANTITY.



4 SERVICE CONNECTION DETAIL (CONTROLLER X1)
NO SCALE



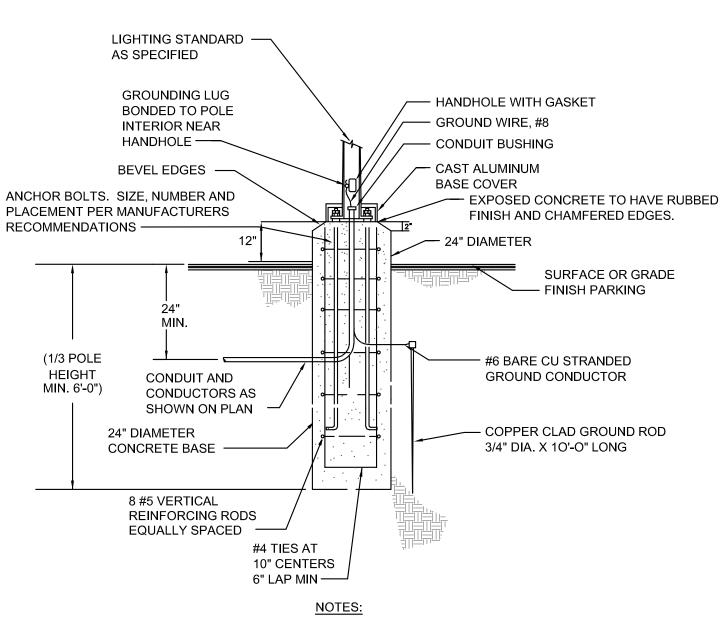
*POLE BASE SHALL BE CALCULATED USING THE FOLLOWING CRITERIA:

TOTAL EPA OF LUMINAIRES +TOTAL EPA OF BRACKETS
=TOTAL EPA OF LUMINAIRES/BRACKETS

SELECT POLE BASED ON MAXIMUM EPA LISTED IN MANUFACTURERS CATALOG. 2. IN ANY CASE MIN. POLE BASE DEPTH SHALL BE 72". FINAL DEPTH OF POLE BASE SHALL

BE VERIFIED WITH STRUCTURAL ENGINEER

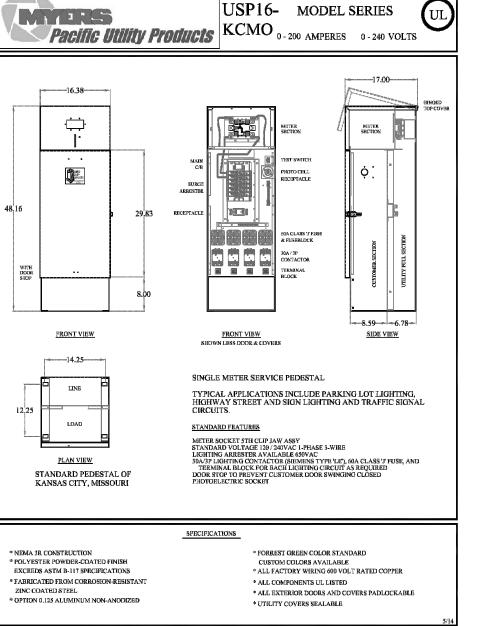
- PRIOR TO PLACEMENT. 3. CONCRETE SHALL BE 3000 PSI CLASS A CONCRETE PLACED NEXT TO UNDISTURBED EARTH.
- CONTRACTOR TO INCLUDE CONTINGENCY FOR ENCOUNTERING ROCK AS PART OF POLE BASE INSTALLATION.



*POLE BASE SHALL BE CALCULATED USING THE FOLLOWING CRITERIA:

TOTAL EPA OF LUMINAIRES **+TOTAL EPA OF BRACKETS** =TOTAL EPA OF LUMINAIRES/BRACKETS

- SELECT POLE BASED ON MAXIMUM EPA LISTED IN MANUFACTURERS CATALOG.
- 2. IN ANY CASE MIN. POLE BASE DEPTH SHALL BE 72". FINAL DEPTH OF POLE BASE SHALL BE VERIFIED WITH STRUCTURAL ENGINEER PRIOR TO PLACEMENT. 3. CONCRETE SHALL BE 3000 PSI CLASS A
- CONCRETE PLACED NEXT TO UNDISTURBED EARTH. CONTRACTOR TO INCLUDE CONTINGENCY FOR ENCOUNTERING ROCK AS PART OF POLE BASE INSTALLATION.



		STANDARD C	ATALOG N	JMBERS		
CATALOG NUMBER	AMPS	VOLTAGE	PHASE	MAIN	BRANCH CIRCUITS	AIC RATIN
USP16-M2100-112C-KCMO	100	120/240	1PH 3W	YES	10	10,000
CAT. NO. USP16-M2100-112C-R	C MO					
SERV DISC N CLASS T GND CLASS T FUSE GNA Ti	CI CON 36A 3P	USE & C	CLASS 'J CLA	CLA CLA CLA CLA CLA CLA CLA CLA CLA CLA	SS T 2 2 C4 NT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************

USP16- MODEL SERIES

	COMPONENT DIRECTORY								
	CAT. NO. MHPD-KCMO-33								
No.	1								
1	LANDING LUGS (2) 350kCMIL								
	METER SOCKET 125A 4JAW 100AMPS								
	W/ 5TH CLIP 9:00 POSITION								
3	MAIN CB 100A, 2P, 120/240VAC 10KAIC								
4	LOAD CENTER 125A 12-CK, 1-PHASE								
5	(3) CB 30A 2P 120/240V 10KAIC, (2) CB 20A, 1P								
6	(1) CB GFCI 20A 1P 120/240V 10KAIC								
7	(1) CB 15A 1P 120/240V 10KAIC								
8	(8) FUSE 60A CLASS 'J' 600V BUSSMAN								
9	(4) CONTACTOR EH 30A, 3P SIEMENS 'LE'								
10	(2) TERM BLK 2P 85A MARATHON								
11	(1) RECEPTACLE 20A, 120V DUPLEX								
12	SWITCH TOGGLE SPST 20A								
13	PE RECEPTACLE								
	(1) SURGE ARRESTER GE								
_	BONDED NEUTRAL BUS								
16	INSULATED NEUTRAL BUS								

NO.	AMP.	POLE	DESCRIPTION
1-3	100	2	SERVICE DISCONNECT
5-7	30	2	SIGNAGE CKT #1
9-11	30	2	SPARE(FUTURE LTG)
2	20	1	SIGNAGE CKT #2 (120V)
4	20	1	SPARE
6-8	30	2	SPARE (FUTURE LTG)
10	15	1	PEC
12	20	1	RECEPTACLE

MYERS

SPECIFICATIONS:

- 1. NEMA 3R CONSTRUCTION
- FABRICATED FROM CORROSION-RESISTANT ZINC COATED STEEL.
- FACTORY WIRING 600 VOLT RATED COPPER
- COLOR DARK GREEN UNLESS OTHERWISE SPECIFIED POLYESTER POWDER-COATED FINISH EXCEEDS ASTM B-117 SPECIFICATION.
- 6. ALL EXTERIOR HINGES CONTINUOUS PIANO TYPE STAINLESS STEEL
- 7. ALL COMPONENTS ARE U.L. LISTED.

1 USP SERVICE PEDESTAL 0-200 AMP, 0-600 VOLTS (X2)

DRAWING INFO.	MSS	MSS	E-2000174546	2019-09-19		19C010001	
DR/	BY DATE DRAWN BY:	CHECK BY: MSS	LICENSE NO. E-2000174546	DATE:	FIELD BOOK:	JOB NUMBER: 19C010001	
	DATE						
	ВУ						2019
REVISIONS	DESCRIPTION						© COPYRIGHT ANDERSON ENGINEERING, INC. 2019
	NO.						00 ©
							No.

ELECTRICAL

MONICA SANTOYO SANTOS NUMBER 。,E-2000174546。 PROFESSIONA, 9/19/2019 Monica S'Santòs - Electrical MO# E-2000174546

> SHEET NUMBER XX of XX

3 LIGHTING POLE BASE DETAIL (P2, P5)

2 LIGHTING POLE BASE DETAIL (P1, P3, P4)