CABLE TV - EXISTING FIBER OPTIC CABLE - EXISTING ----- OHP_x ----- OVERHEAD POWER LINE - EXIST

GAS LINE - EXISTING WATERLINE - EXISTING LIGHT - EXISTING **EXISTING MANHOLE** CLEANOUT EXISTING SANITARY MANHOLE

----- UGE, ---- UNDERGROUND ELECTRIC - EX.

PROPOSED SANITARY MANHOLE EXISTING AREA INLET EXISTING CURB INLET EXISTING GRATE INLET **EXISTING JUNCTION BOX** EXISTING STORM MANHOLE

CHIPMAN RD 1ST



MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT) Lee's Summit, MO 64086

Lee's Summit, MO 64082 brent.jones@spireenergy.com

EVERGY (KCP&L)

CITY OF LEES SUMMIT PUBLIC WORKS Dena Mezger 220 SE Green Street Lee's Summit, MO 64063 (816) 969-1800

AT&T Mark Manion or Marty Loper 500 E. 8th Street, Room 370 Kansas City, MO 64106 (816) 275-2341 or (816) 275-1550

COMCAST CABLE John Meadows 4700 Little Blue Parkway Independence, MO 64057 (816) 795-2257

PUBLIC WATER SUPPLY DISTRICT 220 SE Green Street Lee's Summit. MO 64063 (816) 969-1900

SEDIMENT CONTROL PLAN, MASTER DRAINAGE PLAN, STREET, **AND STORMWATER PLANS**

WINTERSET VALLEY REPLAT LOTS 1450, 1451, & TRACT A51

IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

GENERAL NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOUR
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE

- DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

STREET NOTES:

- 1. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.
- 2. ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT PUBLIC
- CURB RETURN RADII SHALL BE 25' AT BACK OF CURB UNLESS OTHERWISE NOTED. SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ASSUMED DESIGN SPEED = 25 MPH (COLLECTOR).
- MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.
- MINIMUM K, SAG CURVE = 26 (14 WITH LIGHTING), CREST CURVE = 12.
- GRADE INTERSECTIONS TO DRAIN AS SHOWN.
- 9. SSD = STOPPING SIGHT DISTANCE.

EARTHWORK

- EXISTING SITE TO THE FINISHED GRADE (OR SUB-GRADE) ELEVATIONS PROVIDED ON THE PLANS AS SPO

- LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6-INCHES BELOW FINAL GRADE
- B. PAVED AREAS 1.2% MINIMUM, 5% MAXIMUM ACTIVITIES HAVE CEASED. SEEDING SHALL BE PER THE EROSION AND SEDIMENT CONTROL PLAN AND/OR LANDSCAPE PLAN. IF NOT SPECIFIED SEEDING SHALL BE PER APWA SECTION 2400. LATEST EDITION. UNLESS OTHERWISE NOTED, SEEDING SHALL BE SUBSIDIARY TO THE CONTRACT PRICE FOR EARTHWORK AND
- 14. ALL DISTURBED AREAS IN THE RIGHT-OF-WAY SHALL BE SODDED.
- UNDERDRAINS ARE RECOMMENDED FOR ALL PAVED AREAS ADJACENT TO IRRIGATED TURF AND LANDSCAPED BEDS.
- CONTRACTOR SHALL ADHERE TO THE REPORTING REQUIREMENTS OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROPERLY MAINTAINED AND KEPT CLEAN OF SILT AND DEBRIS AND IN GOOD WORKING ORDER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED.

UTILITIES:

- EXISTING UTILITIES HAVE BEEN SHOWN TO THE GREATEST EXTENT POSSIBLE BASED UPON INFORMATION PROVIDED TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES AND FIELD LOCATING UTILITIES PRIOR TO CONSTRUCTION AND IDENTIFYING ANY POTENTIAL CONFLICTS. ALL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY REQUIRED UTILITY RELOCATIONS. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE
- CONTRACTOR SHALL VERIFY FLOW-LINES AND STRUCTURE TOPS PRIOR TO CONSTRUCTION, AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. PROVIDE SHOP DRAWINGS FOR ALL PRECAST AND MANUFACTURED UTILITY STRUCTURES FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE
- UTILITY SEPARATION: WATERLINES SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWER LINES. IF MINIMUM SEPARATIONS CAN NOT BE OBTAINED, A CONTINUOUS CASING PIPE MUST BE USED ON THE WATER LINE AND EXTEND NO LESS THAN 10 FEET IN EACH DIRECTION FROM THE CROSSING OF THE SANITARY OR STORM SEWER LINE IN CONFLICT.
- PAYMENT FOR TRENCHING, BACKFILLING, PIPE EMBEDMENT, FLOWABLE FILL, BACKFILL MATERIALS, CLEAN UP, SEEDING, SODDING AND ANY OTHER ITEMS NECESSARY FOR THE CONSTRUCTION OF THE UTILITY LINE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE UTILITY INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING RESPECTIVE UTILITY COMPANIES 48-HOURS IN ADVANCE FOR THE INSPECTION OF ANY PROPOSED UTILITY MAIN EXTENSION OR SERVICE LINE OR SERVICE CONNECTION TO ANY EXISTING MAIN.
- TRENCH SPOILS SHALL BE NEATLY PLACED ONSITE ADJACENT TO THE TRENCH, AND COMPACTED TO PREVENT SATURATION AND EXCESS SEDIMENT RUNOFF. UNSUITABLE MATERIALS, EXCESS ROCK AND SHALE, ASPHALT, CONCRETE, TREES, BRUSH ETC. SHALL BE PROPERLY DISPOSED OF OFFSITE. MATERIALS MAY BE WASTED ONSITE AT THE DIRECTION OF THE OWNER OR HIS APPOINTED REPRESENTATIVE.

	Sheet List Table
Sheet Number	Sheet Title
1	COVER SHEET
2	PRE-CLEARING PLAN
3	ECP-CONSTRUCTION
4	FINAL STABILIZATION PLAN
5	EROSION CONTROL DETAILS
6	GENERAL LAYOUT
7	MDP - GRADING PLAN
8	MDP SPOT ELEVATIONS
9	MDP DRAINAGE AREA
10	INTERSECTION DETAILS
11	EXISTING LINE 100 PLAN & PROFILE
12	STANDARD DETAILS
13	STANDARD DETAILS

APPROVED BY

CITY ENGINEER APPROVED FOR ONE YEAR FROM THIS DATE DATE

OWNER/DEVELOPER:

GALE COMMUNITIES, INC. DAVID GALE 400 SW LONGVIEW BLVD, STE 109 LEE'S SUMMIT, MISSOURI 64081 O: (816) 761-9292 C: (816) 645-2336 DGALE@GALECOMMUNITIES.COM



MISSOURI GEOGRAPHIC REFERENCE SYSTEM **BENCH MARK:**

BM JA-136, LOCATED AT INTERSECTION OF SW OLDHAM PARKWAY AND SW WARD ROAD, 61 FT SOUTH OF CL OF OLDHAM PARKWAY AND 28.9 FT EAST OF THE EAST EDGE OF WARD ROAD.

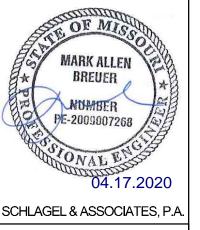
ELEV. 993.11'

PROJECT BENCH MARK:

SANITARY MANHOLE H2 AT NW CORNER OF LOT 1153 WINTERSET VALLEY 1ST PLAT, APPROX. 39' RT. OF CL OF NW PEALE BLVD.

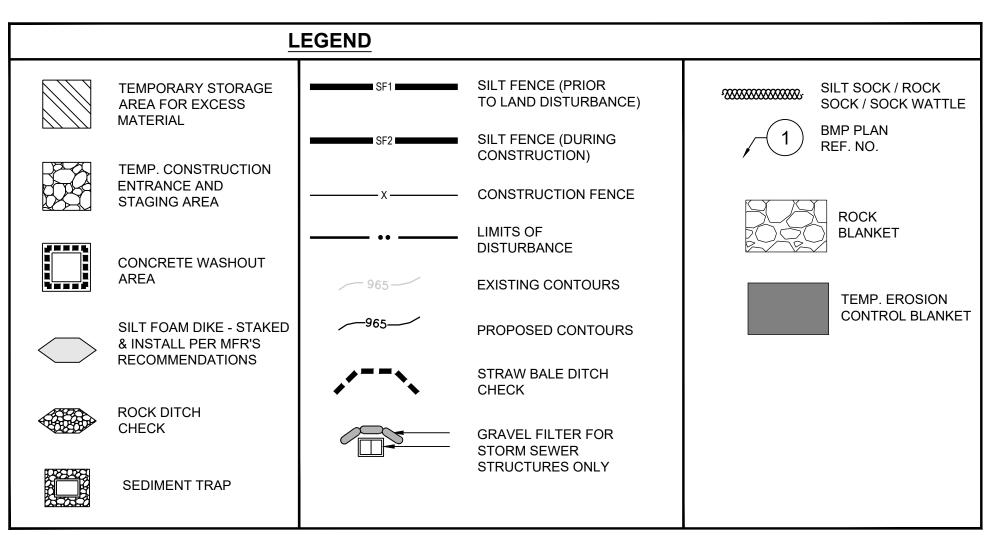
ELEV.935.45'

PREPARED BY:



WINT SE

COVER SHEET



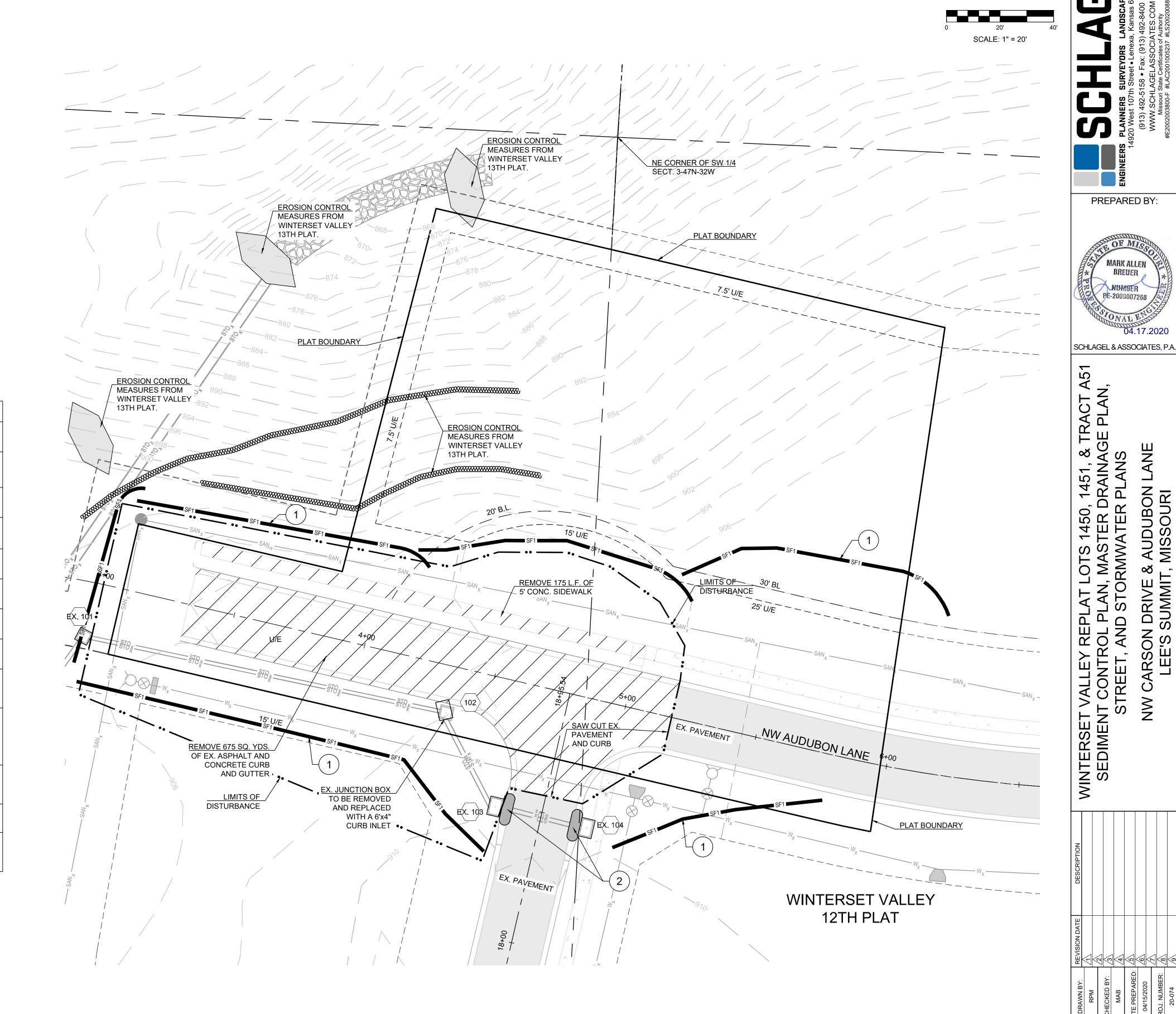
1. CONSTRUCTION OF THIS CONTRACT IS TO BE CONCURRENT WITH WINTERSET VALLEY 13TH PLAT IMPROVEMENTS. THEREFORE EROSION CONTROL MEASURES FROM WINTERSET VALLEY 13TH PLAT SHALL REMAIN OR BE IMPROVED UPON DURING THIS CONTRACT.

(—		EROSIC	ON AND SEDIMENT CONT	ROL ST	AGING CHART				
IASE		PROJECT STAGE	BMP PLAN REF. NO	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:				
PRE-CLEARING PHASE			N/A	CONSTRUCTION ENTRANCE & STAGING AREA	D	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY				
PRE-CLE/		A - PRIOR TO LAND DISTURBANCE	1	SILT FENCE 1 (PRIOR TO LAND DISTURBANCE)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED				
			2	EXISTING INLET PROTECTION (GRAVEL CURB INLET SEDIMENT TRAP)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED				
SE			3	SILT FENCE 2 (DURING CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED				
ION PHA		B - MASS GRADING	4	SILT SOCK/ ROCK SOCK/ SOCK WATTLE	D	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED				
CONSTRUCTION PHASE			5	FOAM SILT DIKE OR ROCK DITCH CHECK	E	PLACE WHERE INDICATED AS SOON AS SWALE IS ESTABLISHED, REPAIR OR REPLACE AS NECESSARY				
S			6	CONCRETE WASHOUT AREA	E	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY				
		C - UTILITY CONSTRUCTION	7	INLET PROTECTION (SILT FENCE)	D/E	PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA STORM STRUCTURES TO HAVE SILT FENCE REMOVED ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED				
VION			8	INLET PROTECTION (GRAVEL FILTER BAGS)	E	BOARDS SHALL BE PLACED IN FRONT OF INLET OPENING FROM THE TIME SILT FENCE IS REMOVED UNTIL SUCH TIME THAT THE CURB / THROAT IS POURED. PLACE GRAVEL FILTER BAGS AT THE OPENING OF ALL CURB INLETS IMMEDIATELY AFTER THE INLET THROATS ARE POURED				
ונט	PHASE	D - AFTER PAVING OPERATIONS	9	SILT FENCE 2 (AFTER CURB CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED				
FINAL			10	SEEDING AND MULCHING	E	ALL DISTURBED AREAS AFTER 14 DAYS OF CONSTRUCTION INACTIVITY				
		E - UNTIL CLOSURE OF LAND DISTURBANCE PERMIT				ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED ANY TIME CURRENT MEASURES ARE FOUND TO BE INEFFECTIVE.				

DISTURBED AREA = 0.44 A.C.

SITE SPECIFIC NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
- THERE ARE NO WETLANDS, NATURAL OR ARTIFICIAL WATER STORAGE DETENTION AREAS IN THE PROJECT AREA.
- NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0412G DATED JANUARY 20, 2017.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED ACCORDING TO THE BMP STAGING CHART.
- ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE CITY ENGINEER AT ANY TIME EXISTING MEASURES ARE FOUND TO BE INEFFECTIVE OR PROBLEMATIC AREAS ARE NOTED IN THE FIELD.
- STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER SOIL DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING BMPS. INITIAL STABILIZATION ACTIVITIES MUST BE COMPLETED WITHIN 14 DAYS AFTER SOIL DISTURBING ACTIVITIES CEASE.
- ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN.
- SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR.
- AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SODDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.





MARK ALLEN

BREUER

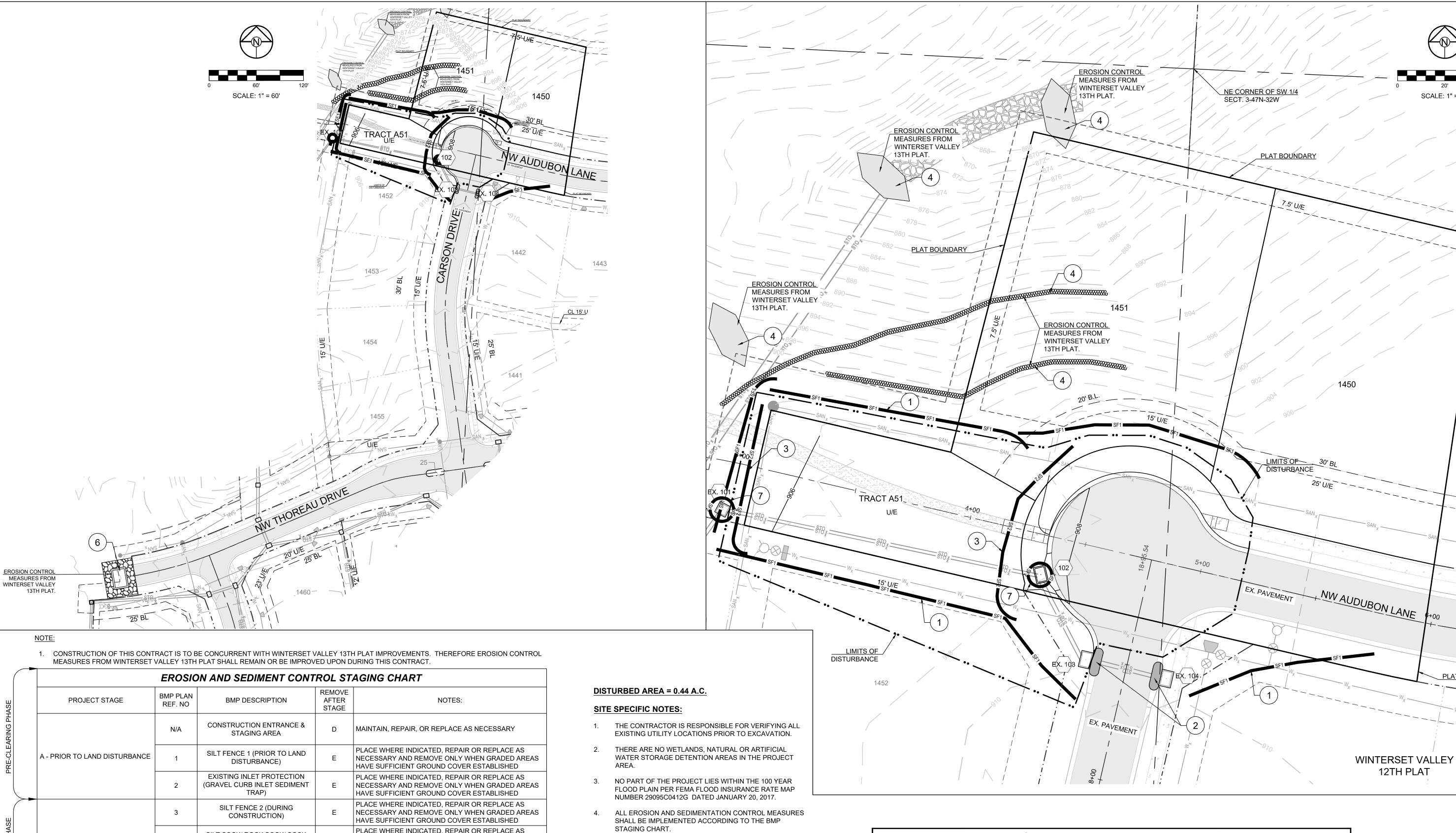
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PRE-CLEARING PLAN





E - UNTIL CLOSURE OF LAND

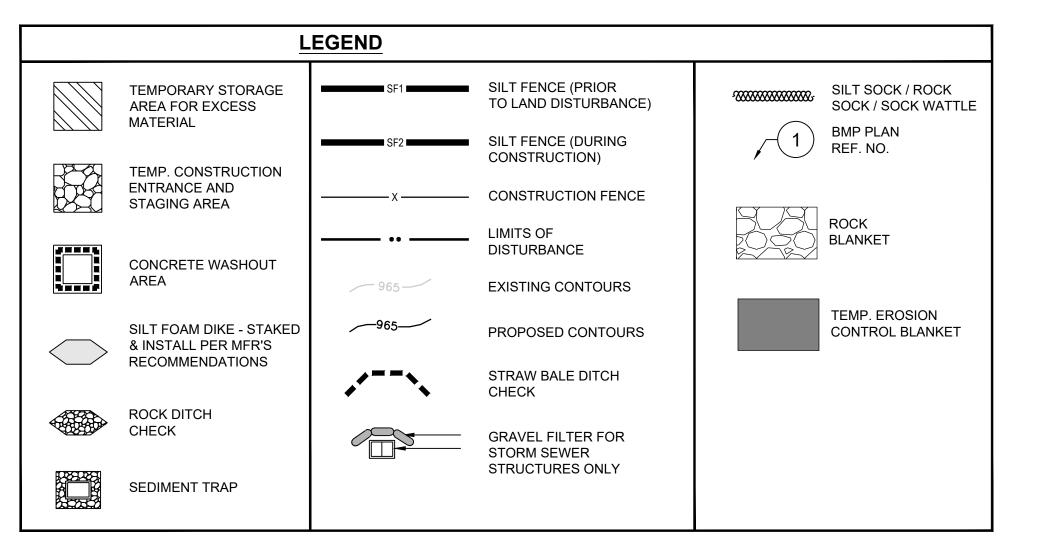
DISTURBANCE PERMIT

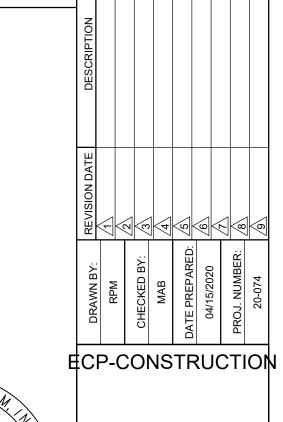
ADDITIONAL SEDIMENT AND EROSION CONTROL

MEASURES ARE FOUND TO BE INEFFECTIVE.

MEASURES MAY BE REQUIRED ANY TIME CURRENT

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ERS DIM

WINT

SCALE: 1" = 20'

PREPARED BY:

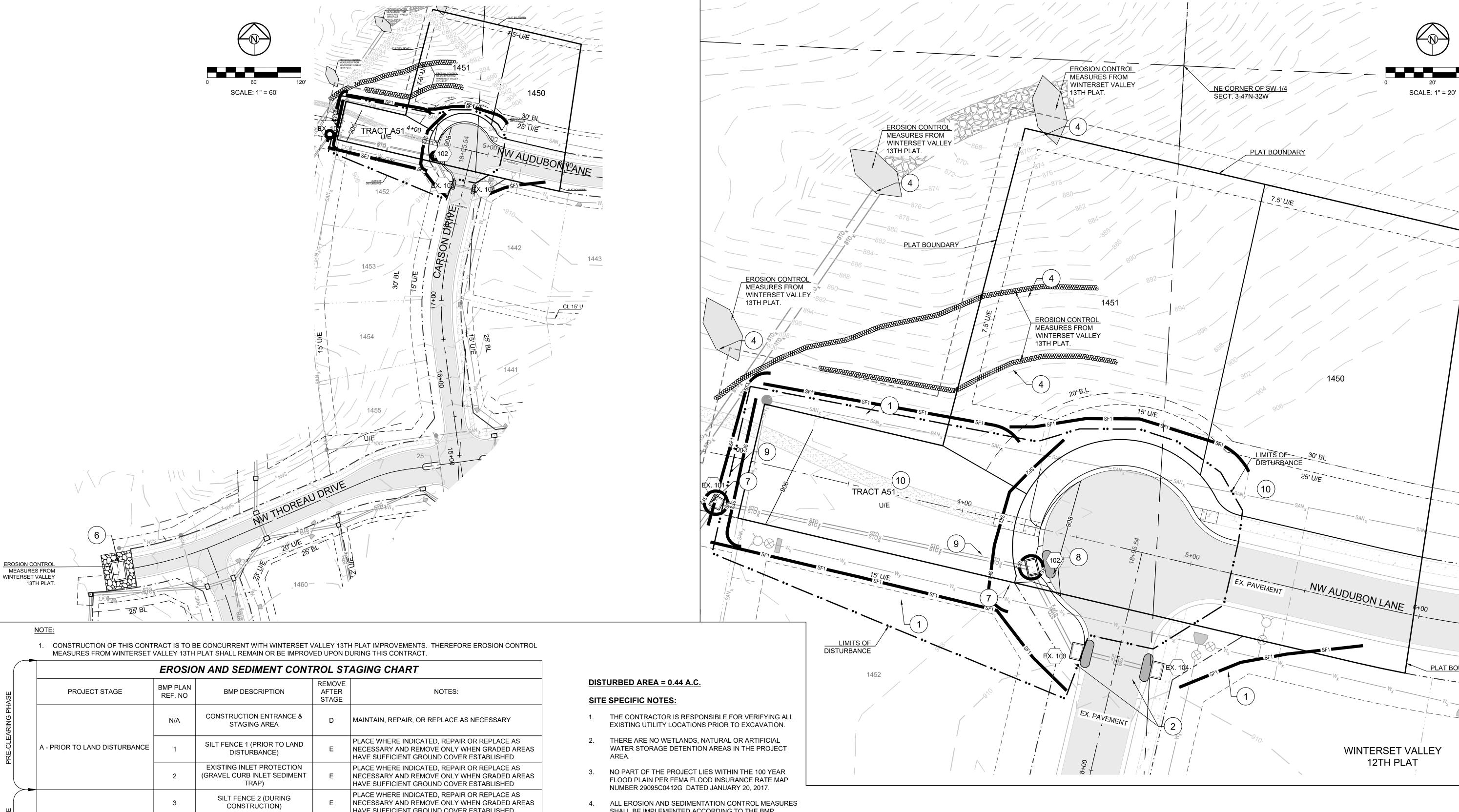
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04.17.2020

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MUMBER PE-2009007268

SCHLAGEL & ASSOCIATES, P.A



HAVE SUFFICIENT GROUND COVER ESTABLISHED PLACE WHERE INDICATED, REPAIR OR REPLACE AS SILT SOCK/ ROCK SOCK/ SOCK B - MASS GRADING NECESSARY AND REMOVE ONLY WHEN GRADED AREAS WATTLE HAVE SUFFICIENT GROUND COVER ESTABLISHED PLACE WHERE INDICATED AS SOON AS SWALE IS FOAM SILT DIKE OR ROCK DITCH ESTABLISHED, REPAIR OR REPLACE AS NECESSARY CHECK MAINTAIN, REPAIR, OR REPLACE AS NECESSARY CONCRETE WASHOUT AREA C - UTILITY CONSTRUCTION PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA STORM STRUCTURES TO INLET PROTECTION (SILT FENCE) D/E HAVE SILT FENCE REMOVED ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED BOARDS SHALL BE PLACED IN FRONT OF INLET OPENING FROM THE TIME SILT FENCE IS REMOVED UNTIL SUCH INLET PROTECTION (GRAVEL TIME THAT THE CURB / THROAT IS POURED. PLACE FILTER BAGS) GRAVEL FILTER BAGS AT THE OPENING OF ALL CURB INLETS IMMEDIATELY AFTER THE INLET THROATS ARE D - AFTER PAVING OPERATIONS PLACE WHERE INDICATED, REPAIR OR REPLACE AS SILT FENCE 2 (AFTER CURB NECESSARY AND REMOVE ONLY WHEN GRADED AREAS CONSTRUCTION) HAVE SUFFICIENT GROUND COVER ESTABLISHED ALL DISTURBED AREAS AFTER 14 DAYS OF SEEDING AND MULCHING CONSTRUCTION INACTIVITY ADDITIONAL SEDIMENT AND EROSION CONTROL

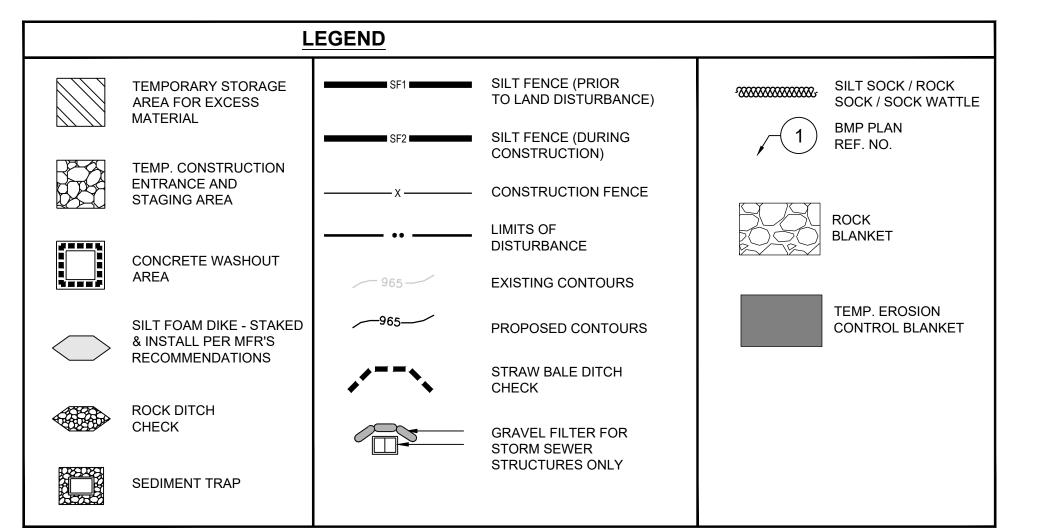
MEASURES MAY BE REQUIRED ANY TIME CURRENT

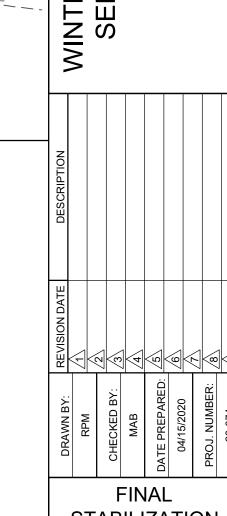
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E - UNTIL CLOSURE OF LAND

DISTURBANCE PERMIT

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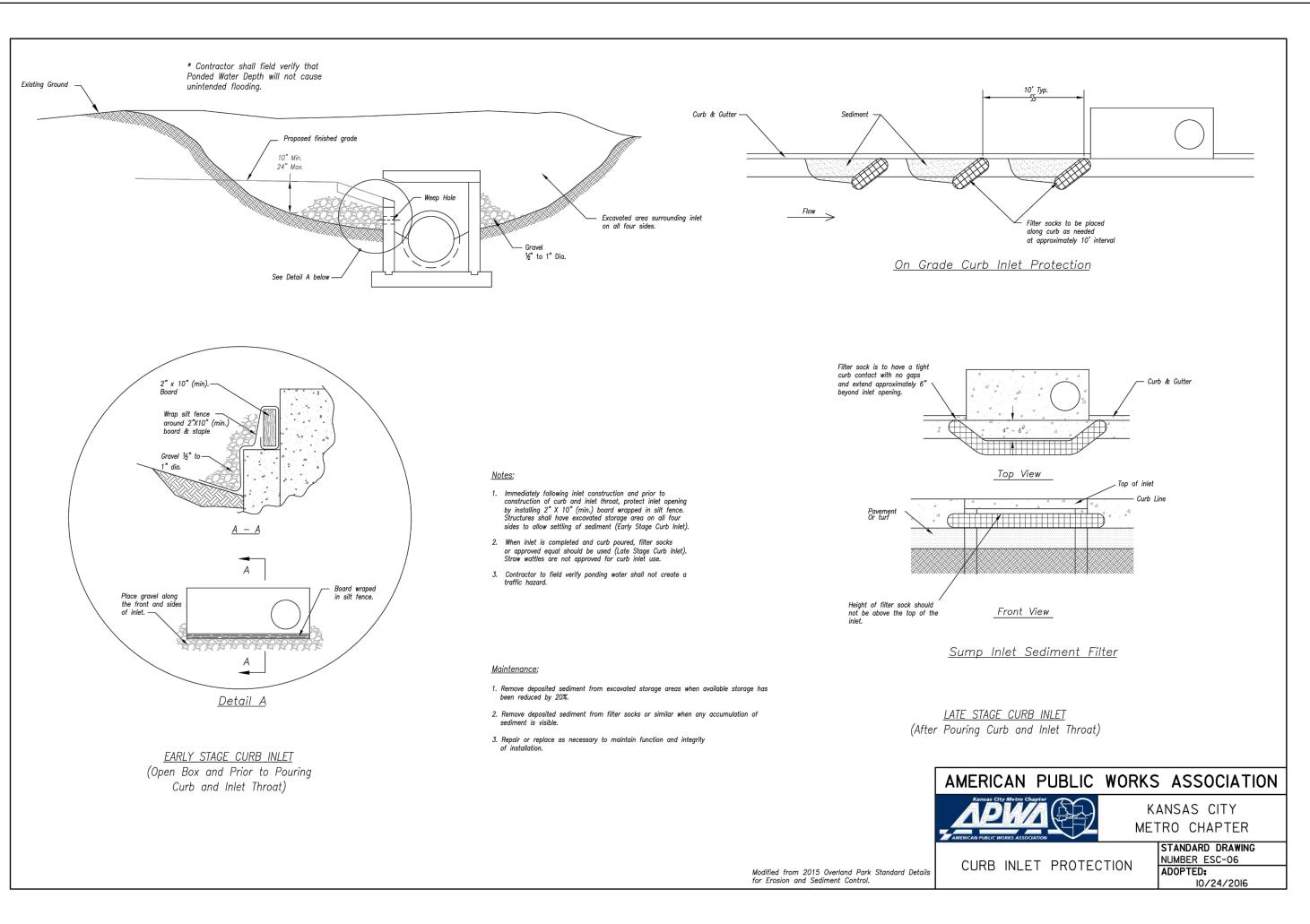
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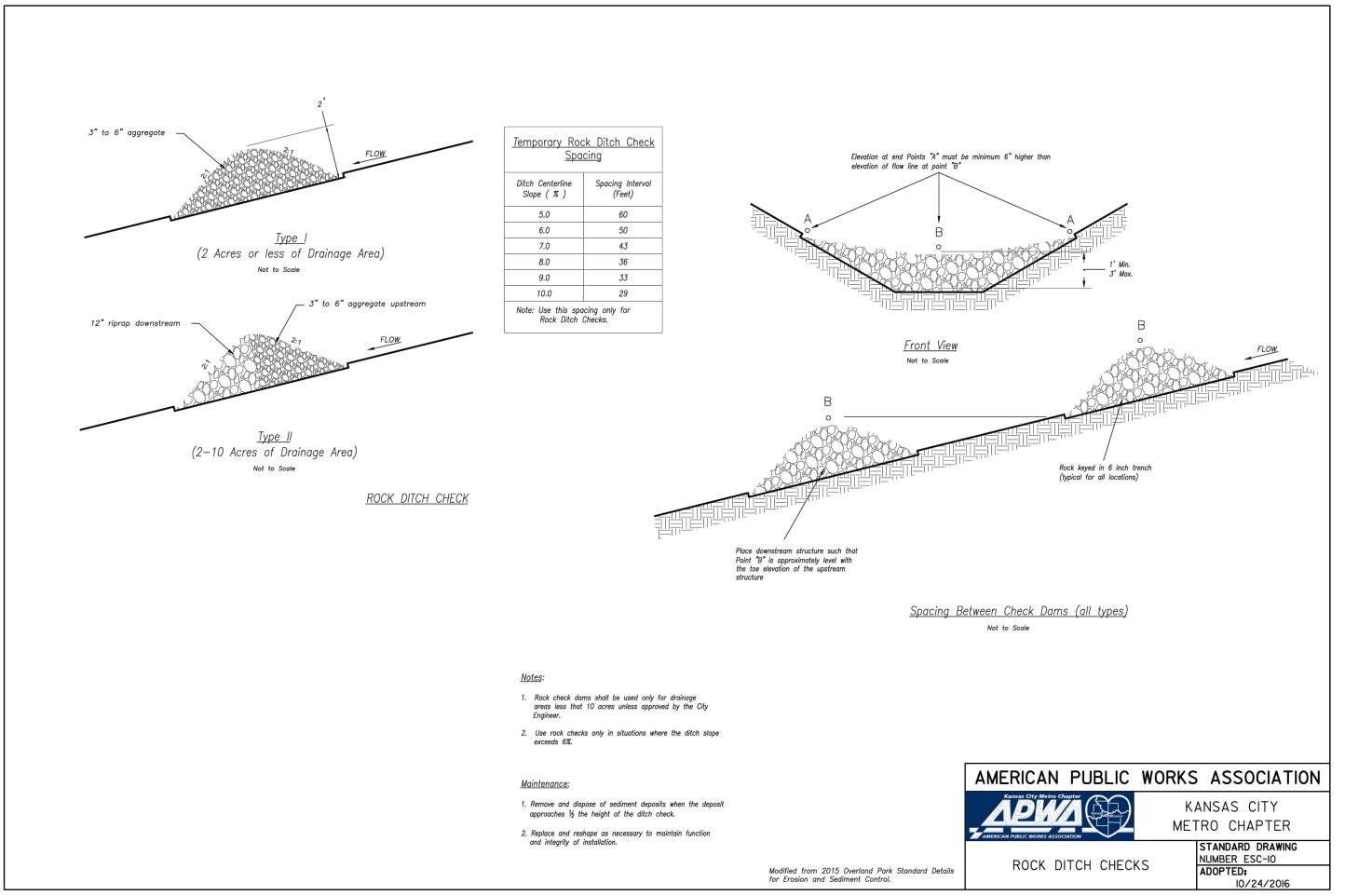
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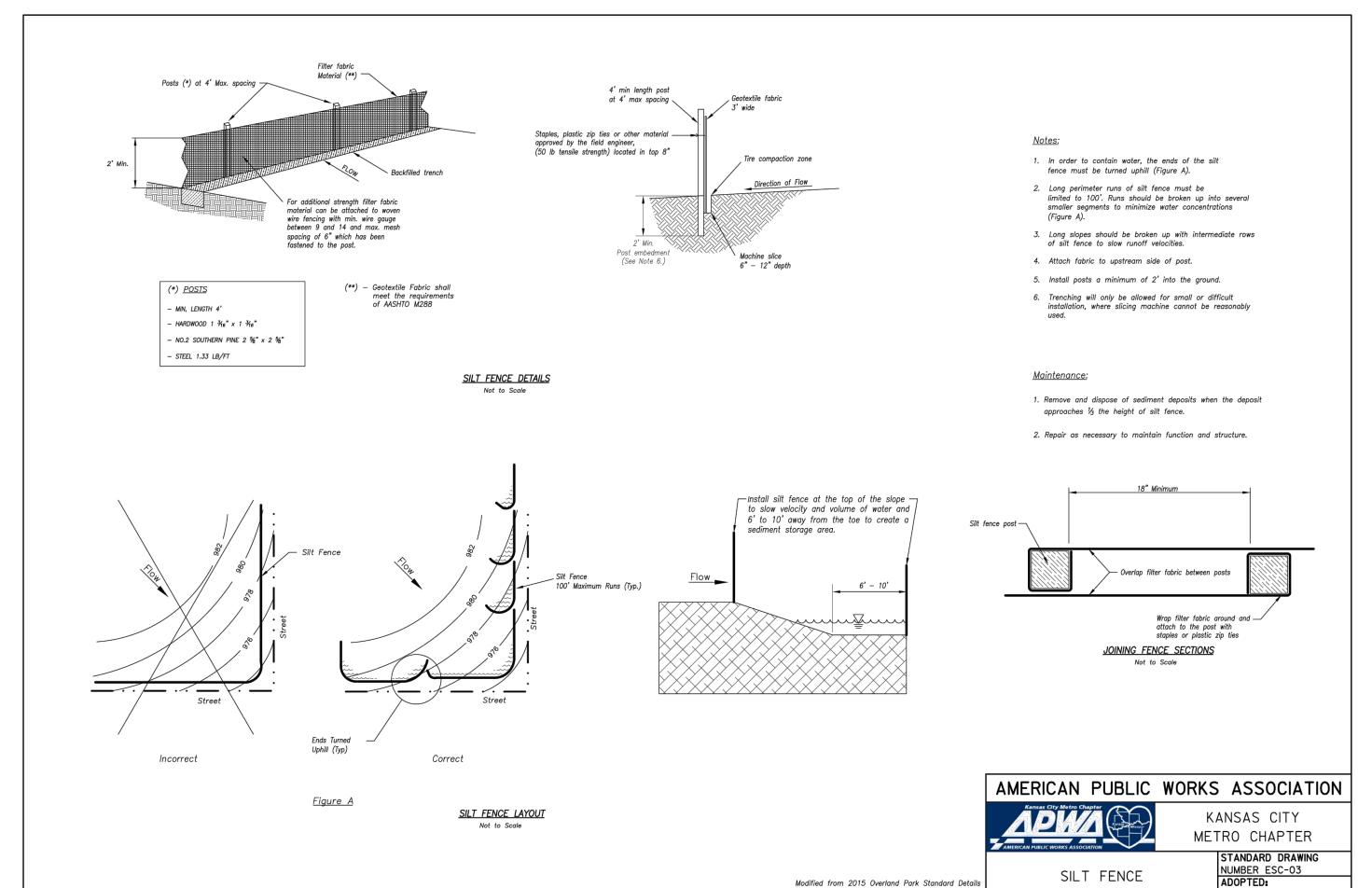
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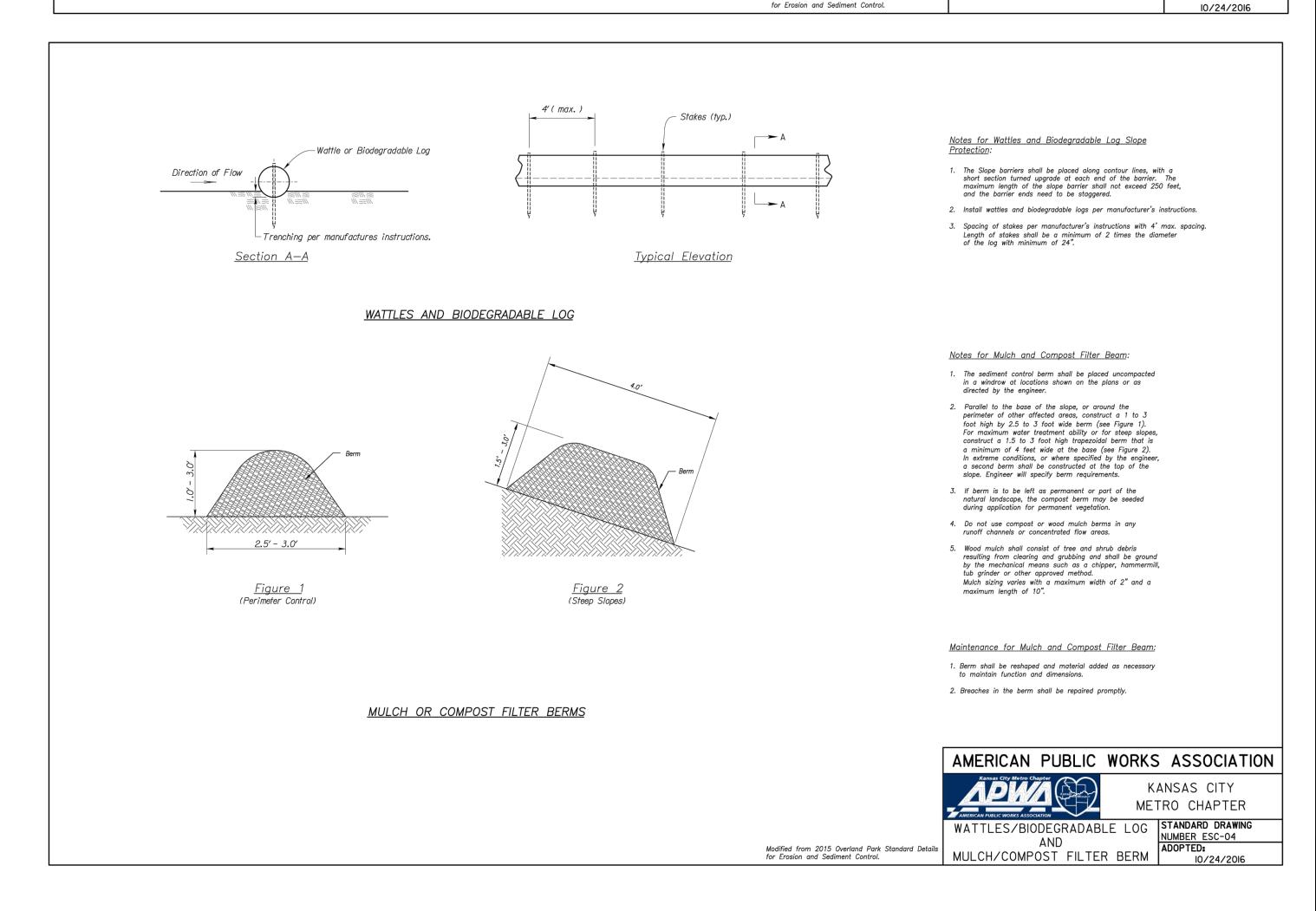
SCHLAGEL & ASSOCIATES, P.A

STABILIZATION PLAN











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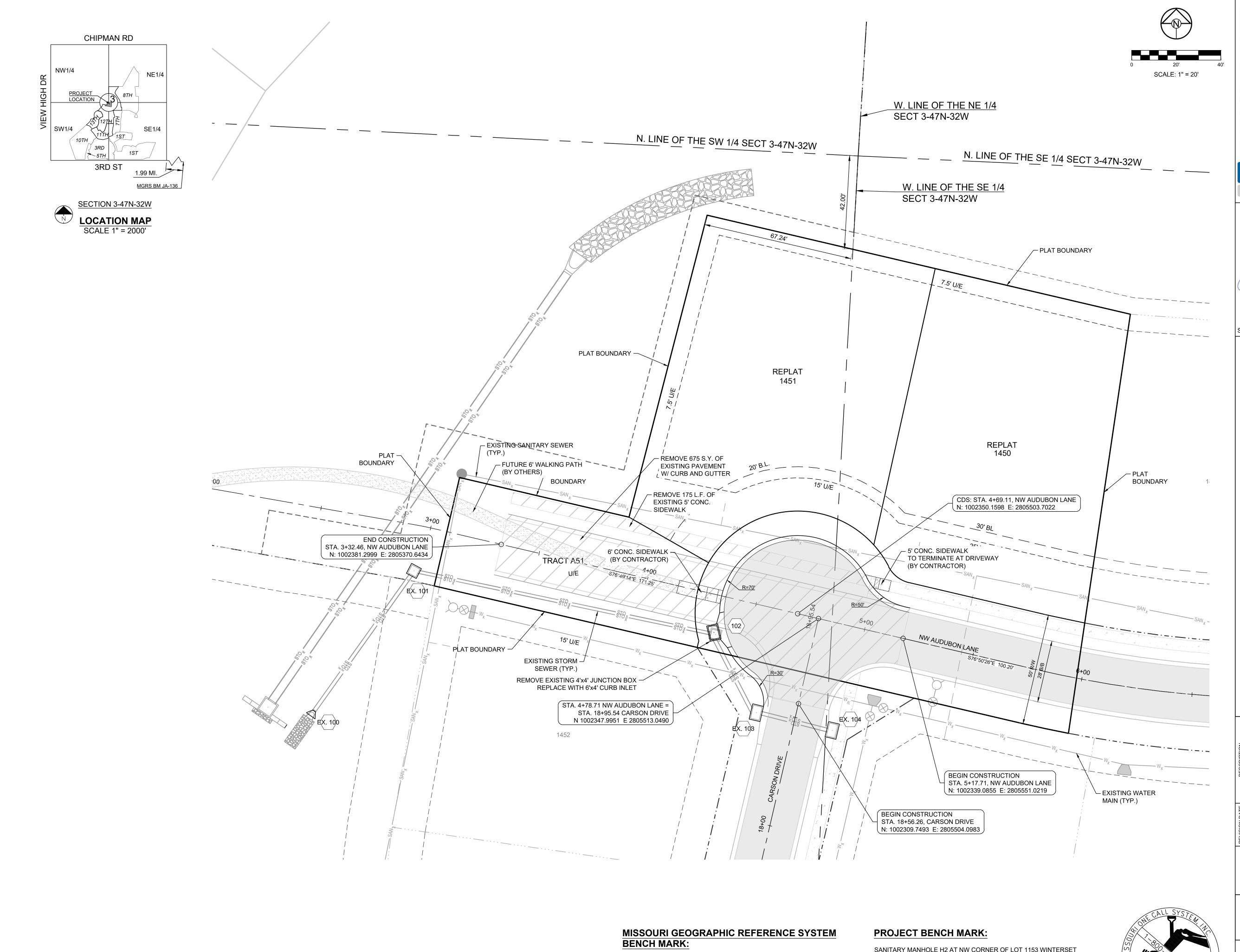


SCHLAGEL & ASSOCIATES, P.A.

OTS 1450, 1451, & TRACT , MASTER DRAINAGE PLAN RMWATER PLANS Y REPLAT L TROL PLAN, I, AND STOF I DRIVE SUMMIT

WINTERSET VALLEY SEDIMENT CONTR STREET,

EROSION CONTROL DETAILS



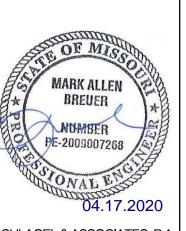
BM JA-136, LOCATED AT INTERSECTION OF SW OLDHAM PARKWAY AND SW WARD ROAD, 61 FT SOUTH OF CL OF OLDHAM PARKWAY AND 28.9 FT EAST OF THE EAST EDGE OF WARD ROAD.

ELEV. 993.11'

SANITARY MANHOLE H2 AT NW CORNER OF LOT 1153 WINTERSET VALLEY 1ST PLAT, APPROX. 39' RT. OF CL OF NW PEALE BLVD. ELEV.935.45'



PREPARED BY:

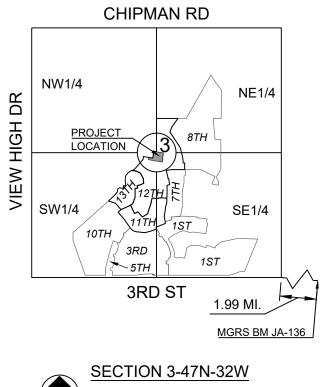


SCHLAGEL & ASSOCIATES, P.A.

LOTS 1450, 1451, & TRACT A51 STER DRAINAGE PLAN, STREET NATER PLANS AUDUBON I MISSOURI

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GENERAL LAYOUT



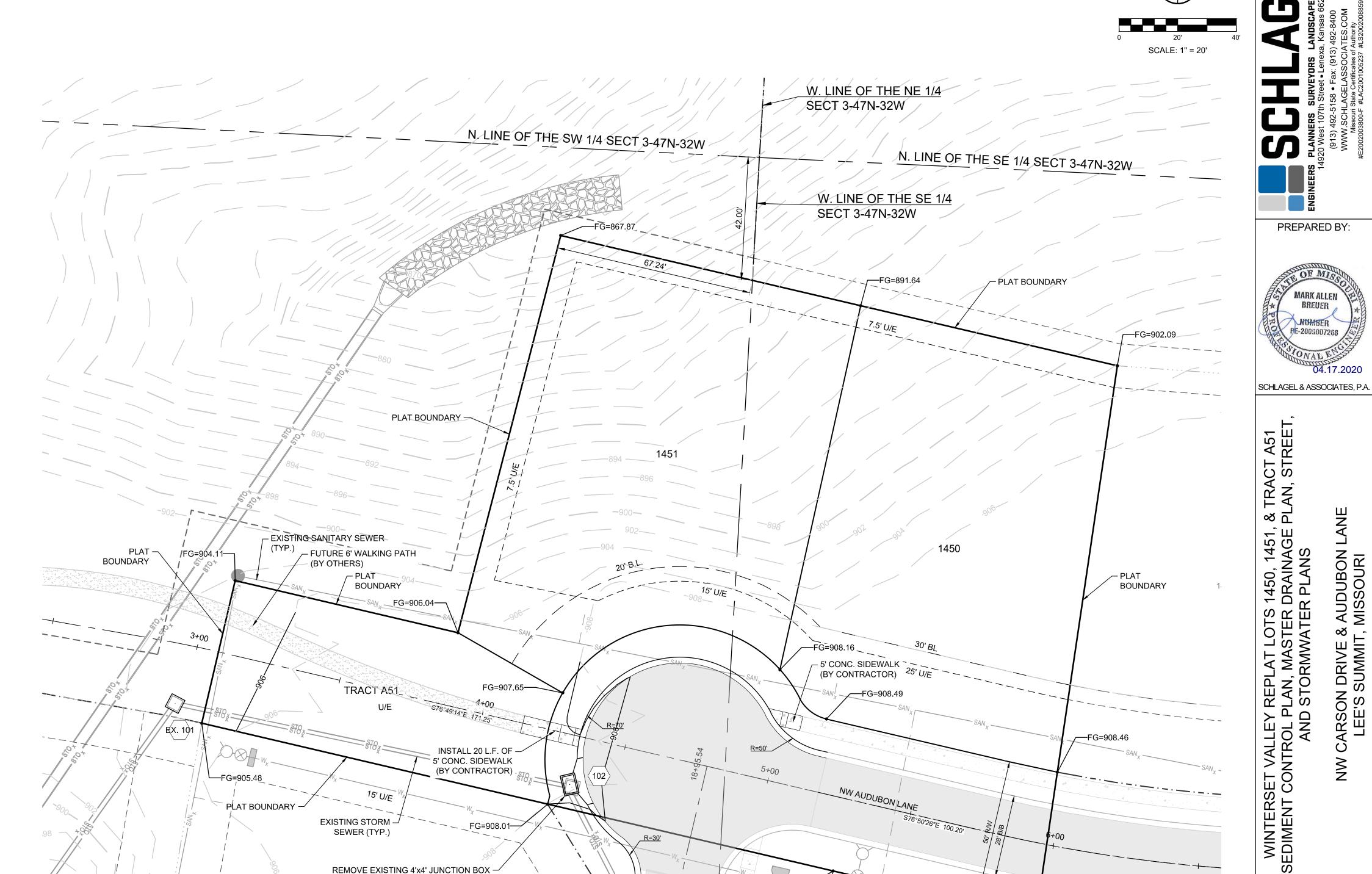
LOCATION MAP SCALE 1" = 2000'

NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.

DENOTES EXISTING MINOR CONTOUR

DENOTES RETAINING WALL DENOTES PROPOSED MAJOR CONTOUR - DENOTES PROPOSED MINOR CONTOUR DENOTES EXISTING MAJOR CONTOUR



MISSOURI GEOGRAPHIC REFERENCE SYSTEM **BENCH MARK:**

BM JA-136, LOCATED AT INTERSECTION OF SW OLDHAM PARKWAY AND SW WARD ROAD, 61 FT SOUTH OF CL OF OLDHAM PARKWAY AND 28.9 FT EAST OF THE EAST EDGE OF WARD ROAD.

ELEV. 993.11'

TRACT A51

EXISTING STORM —

SEWER (TYP.)

REMOVE EXISTING 4'x4' JUNCTION BOX —/
REPLACE WITH 6'x4' CURB INLET

└─FG=905.48

PLAT BOUNDARY -

FG=907.65-

INSTALL 20 L.F. OF — 5' CONC. SIDEWALK (BY CONTRACTOR).

FG=908.01—

PROJECT BENCH MARK:

FG=908.16

·/FG=909.37—J

– 5' CONC. SIDEWALK (BY CONTRACTOR) 25' U/E

SANITARY MANHOLE H2 AT NW CORNER OF LOT 1153 WINTERSET VALLEY 1ST PLAT, APPROX. 39' RT. OF CL OF NW PEALE BLVD. ELEV.935.45'

FG=909.23

FG=909.11-



► EXISTING WATER MAIN (TYP.)

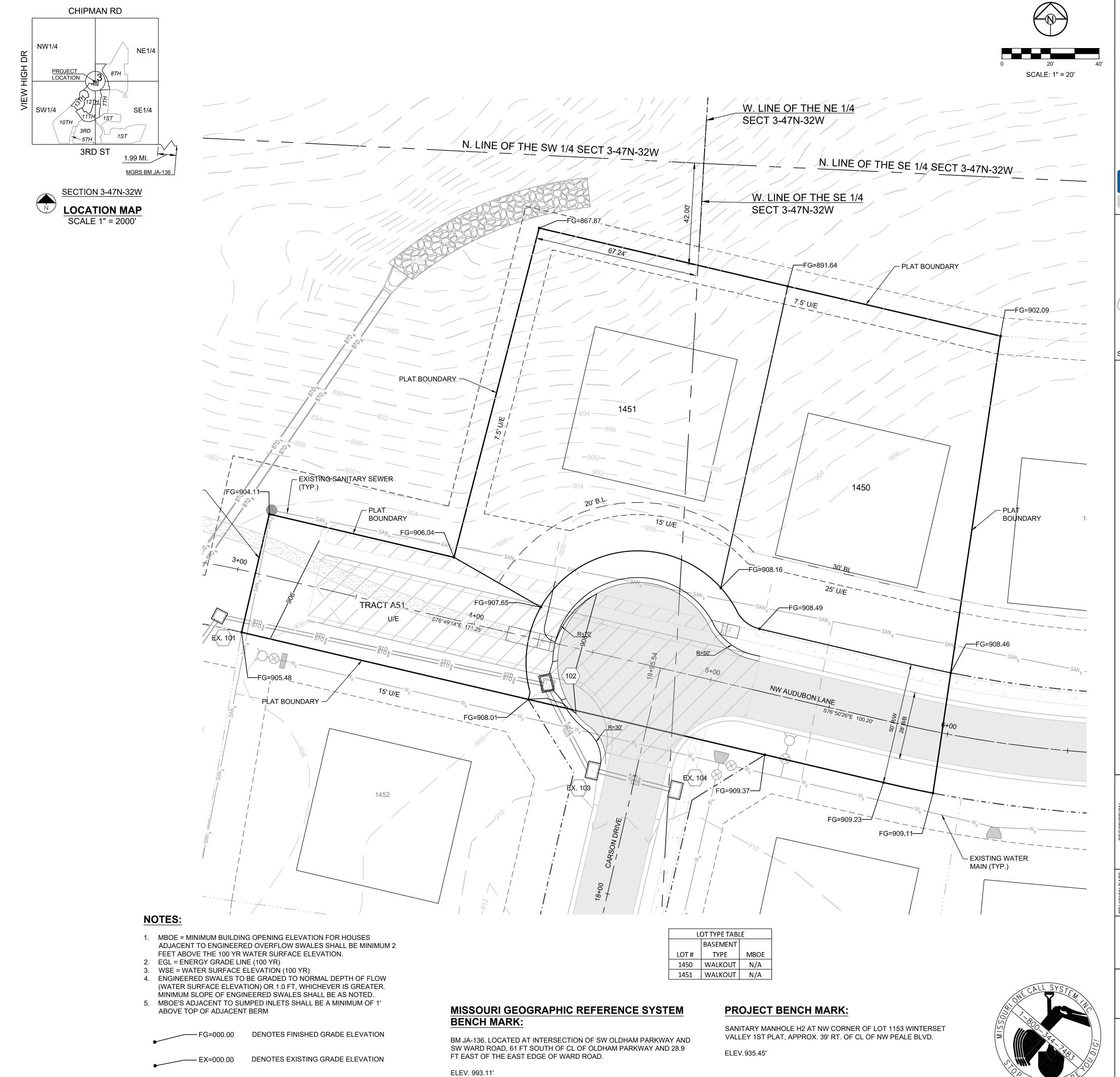
MDP - GRADING PLAN

BREUER

04.17.2020

AUDUBON I MISSOURI

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DENOTES LOT HIGH POINT ELEVATION

PREPARED BY:



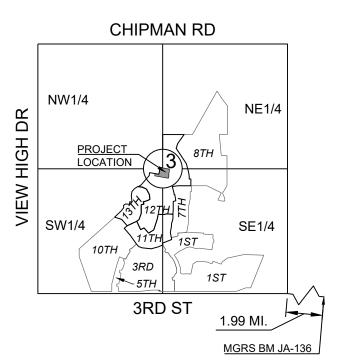
SCHLAGEL & ASSOCIATES, P.A.

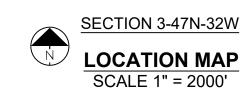
LOTS 1450, 1451, & TRACT A51 STER DRAINAGE PLAN, STREET WATER PLANS

E & AUDUBON I IT, MISSOURI

MDP SPOT

ELEVATIONS





1449 TRACT A51_ U/E 0.99 AC 40 PLAT BOUNDARY

10 YR STORM SEWER DESIGN CALCULATIONS

Rυ	unoff C	alculation	ıs													Pipe Pr	operties										
				Cumul.				Runoff		Full		Up	Up	Up									Drop				
I	Inlet	Area	"C"	Area	Cumul.			То	Cumul.	Pipe	Pipe	Piped	Piped	Area	Up	Up	Down	Pipe	"n"	Pipe		Slope	ln			Inlet	HG
	#	(acres)	Value	(acres)	CxA	Tc	Intensity	Inlet	Runoff	Cap.	Vel.	Inlet 1	Inlet 2	(acres)	CxA	Inlet	Inlet	Туре	Value	Size	Length	%	Inlet	FL Up	FL Down	Тор	Ele
LIN	NE 10	0																					DS 7	TAILWAT	ER @ STF	R #100	FR
	101	0.00	0.51	1.76	0.90	5.6	7.18	0.00	6.44	12.60	10.26			0.00	0.00	101	100	HDPE	0.012	15	77.23	3.24	0.58	894.50	892.00	906.00	895
,	102	0.37	0.51	1.76	0.90	5.2	7.30	1.38	6.55	8.51	6.94			0.00	0.00	102	101	HDPE	0.012	15	161.25	1.48	4.15	897.47	895.08	908.00	89
	103	0.40	0.51	1.39	0.71	5.1	7.33	1.49	5.20	7.70	6.27			0.00	0.00	103	102	HDPE	0.012	15	39.62	1.21	0.50	902.10	901.62	909.63	903
	104	0.99	0.51	0.99	0.50	5.0	7.35	3.71	3.71	8.93	7.28			0.00	0.00	104	103	HDPE	0.012	15	35.00	1.63	N/A	903.17	902.60	909.63	904

100 YR STORM SEWER DESIGN CALCULATIONS

Run	off Calc	culation	S													Pipe Pr	roperties										
				Cumul.				Runoff		Full		Up	Up	Up									Drop				
Inl	et /	Area	"C"	Area	Cumu	1.		To	Cumul.	Pipe	Pipe	Piped	Piped	Area	Up	Up	Down	Pipe	"n"	Pipe		Slope	ln			Inlet	HO
#	(a	acres)	Value	(acres)	CxA	Tc	Intensity	Inlet	Runoff	Cap.	Vel.	Inlet 1	Inlet 2	(acres)	CxA	Inlet	Inlet	Type	Value	Size	Length	%	Inlet	FL Up	FL Down	Тор	Ele
LINE	100																						DS	TAILWAT	ER@ST	R #100	FR
10	1 (0.00	0.51	1.76	0.90	5.6	10.09	0.00	11.32	12.60	10.26			0.00	0.00	101	100	HDPE	0.012	15	77.23	3.24	0.58	894.50	892.00	906.00	896
10	2 (0.37	0.51	1.76	0.90	5.2	10.25	2.42	11.50	8.51	6.94			0.00	0.00	102	101	HDPE	0.012	15	161.25	1.48	4.15	897.47	895.08	908.00	901
. 10	3 (0.40	0.51	1.39	0.71	5.1	10.29	2.62	9.12	7.70	6.27			0.00	0.00	103	102	HDPE	0.012	15	39.62	1.21	0.50	902.10	901.62	909.63	903
. 10	4 (0.99	0.51	0.99	0.50	5.0	10.32	6.51	6.51	8.93	7.28			0.00	0.00	104	103	HDPE	0.012	15	35.00	1.63	N/A	903.17	902.60	909.63	904

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCH MARK:

BM JA-136, LOCATED AT INTERSECTION OF SW OLDHAM PARKWAY AND SW WARD ROAD, 61 FT SOUTH OF CL OF OLDHAM PARKWAY AND 28.9 FT EAST OF THE EAST EDGE OF WARD ROAD.

ELEV. 993.11'

PROJECT BENCH MARK:

SANITARY MANHOLE H2 AT NW CORNER OF LOT 1153 WINTERSET VALLEY 1ST PLAT, APPROX. 39' RT. OF CL OF NW PEALE BLVD.

ELEV.935.45'



MDP DRAINAGE AREA

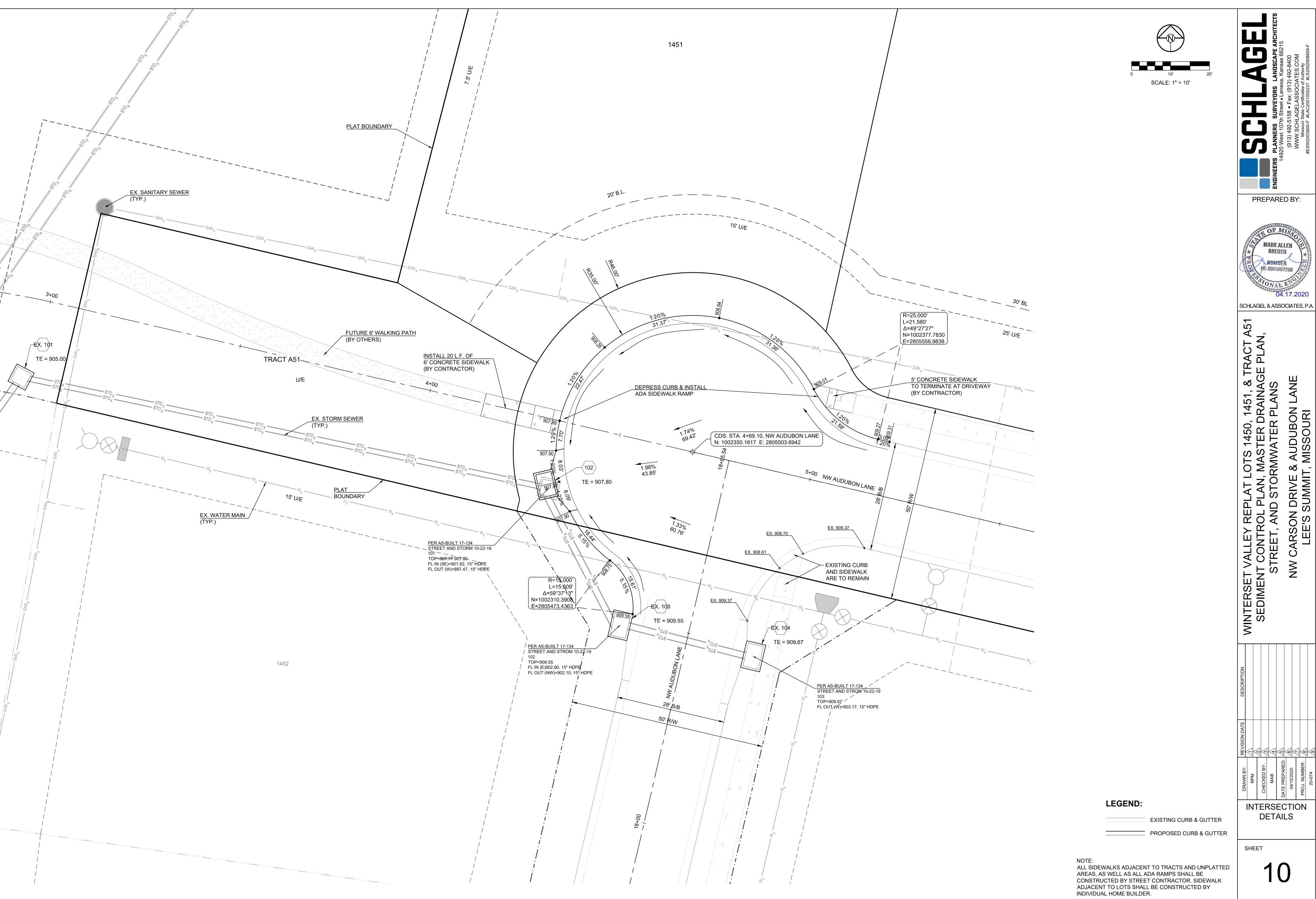
PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

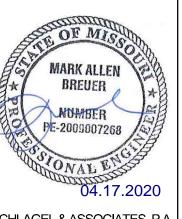
LOTS 1450, 1451, & TRACT A51 STER DRAINAGE PLAN, STREET VATER PLANS

SHEET

9

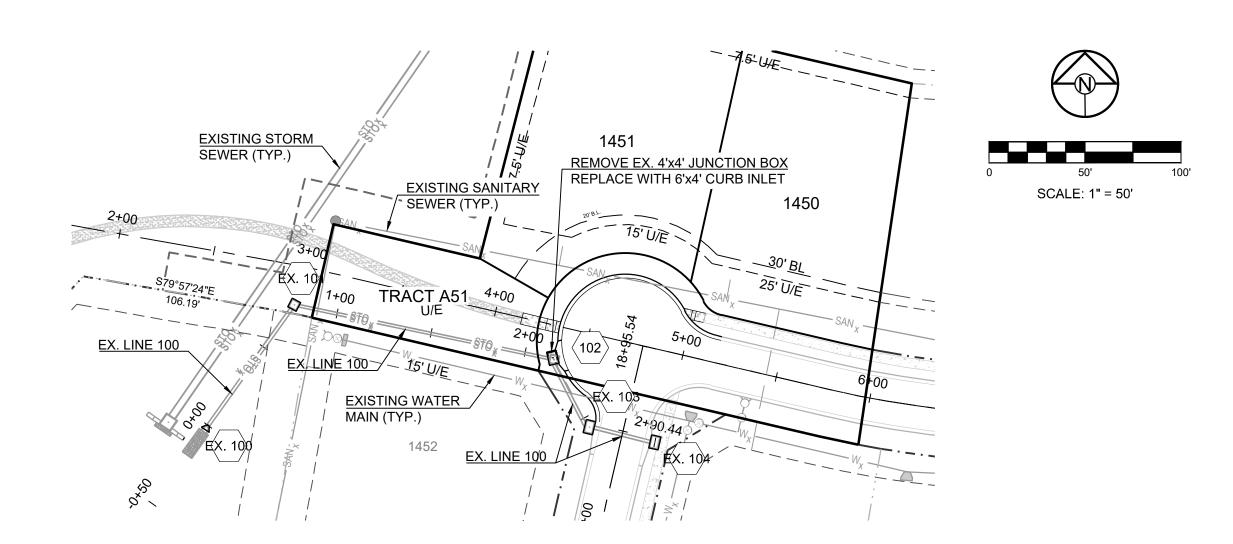


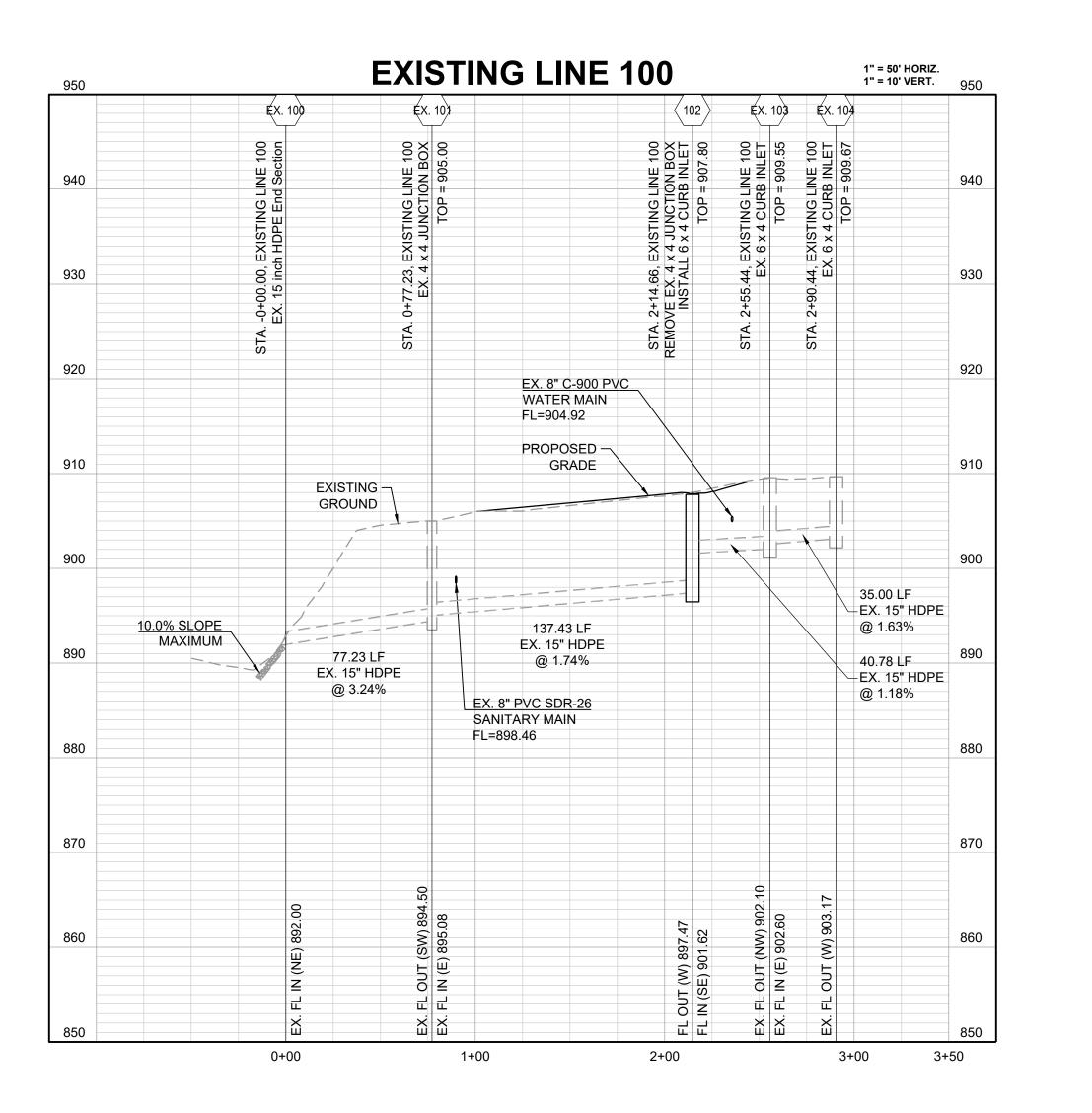
PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

INTERSECTION DETAILS





PREPARED BY:



WINTERSET VALLEY REPLAT LOTS 1450, 1451, & TRACT ASEDIMENT CONTROL PLAN, MASTER DRAINAGE PLAN STREET, AND STORMWATER PLANS

NW CARSON DRIVE & AUDUBON LANE

LEE'S SUMMIT, MISSOURI

DESCRIPTION										
REVISION DATE	√	<	(77)	3	4	\ \$	9	<₹	\8	~
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EXISTING LINE 100 PLAN &

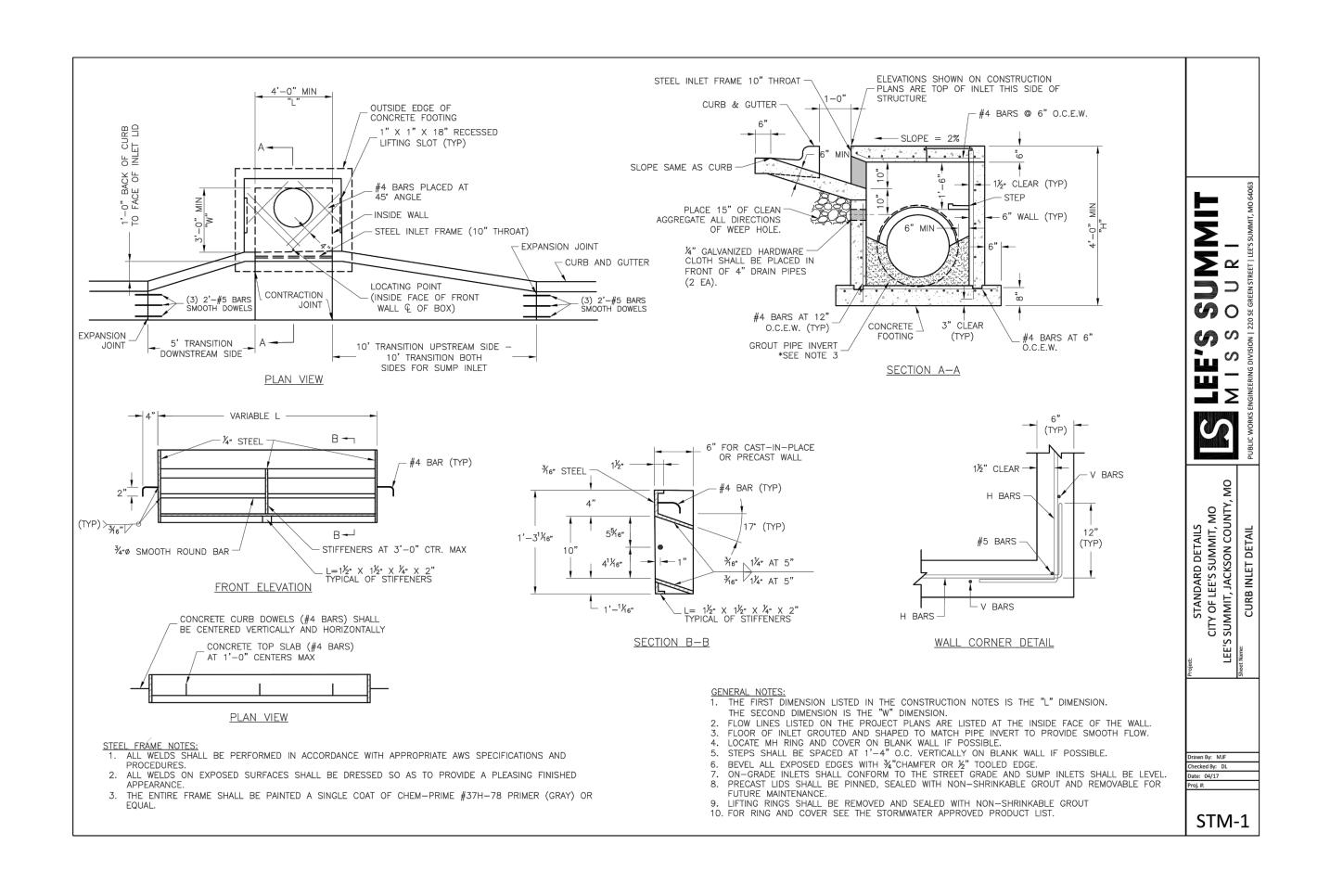
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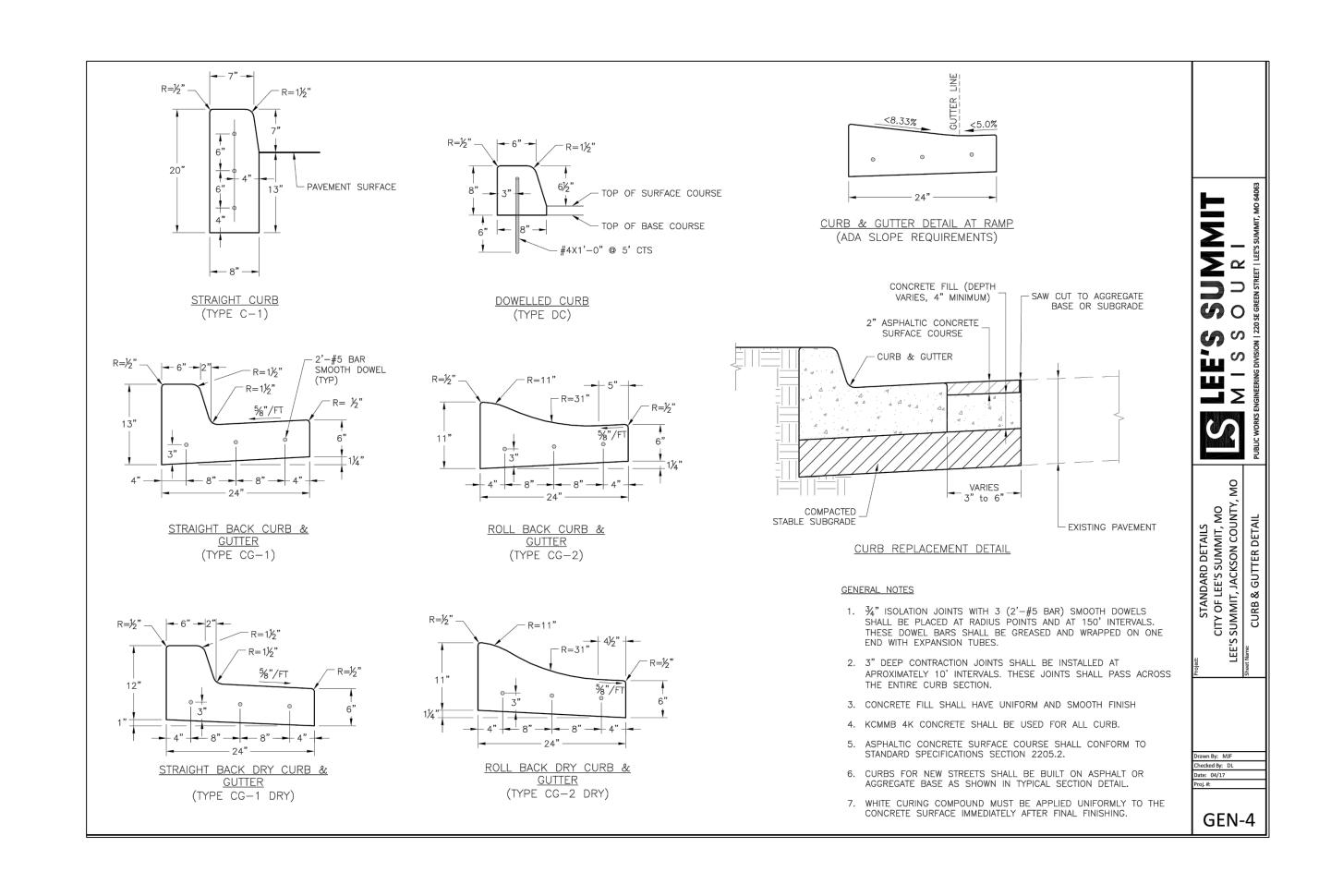
LEGEND:

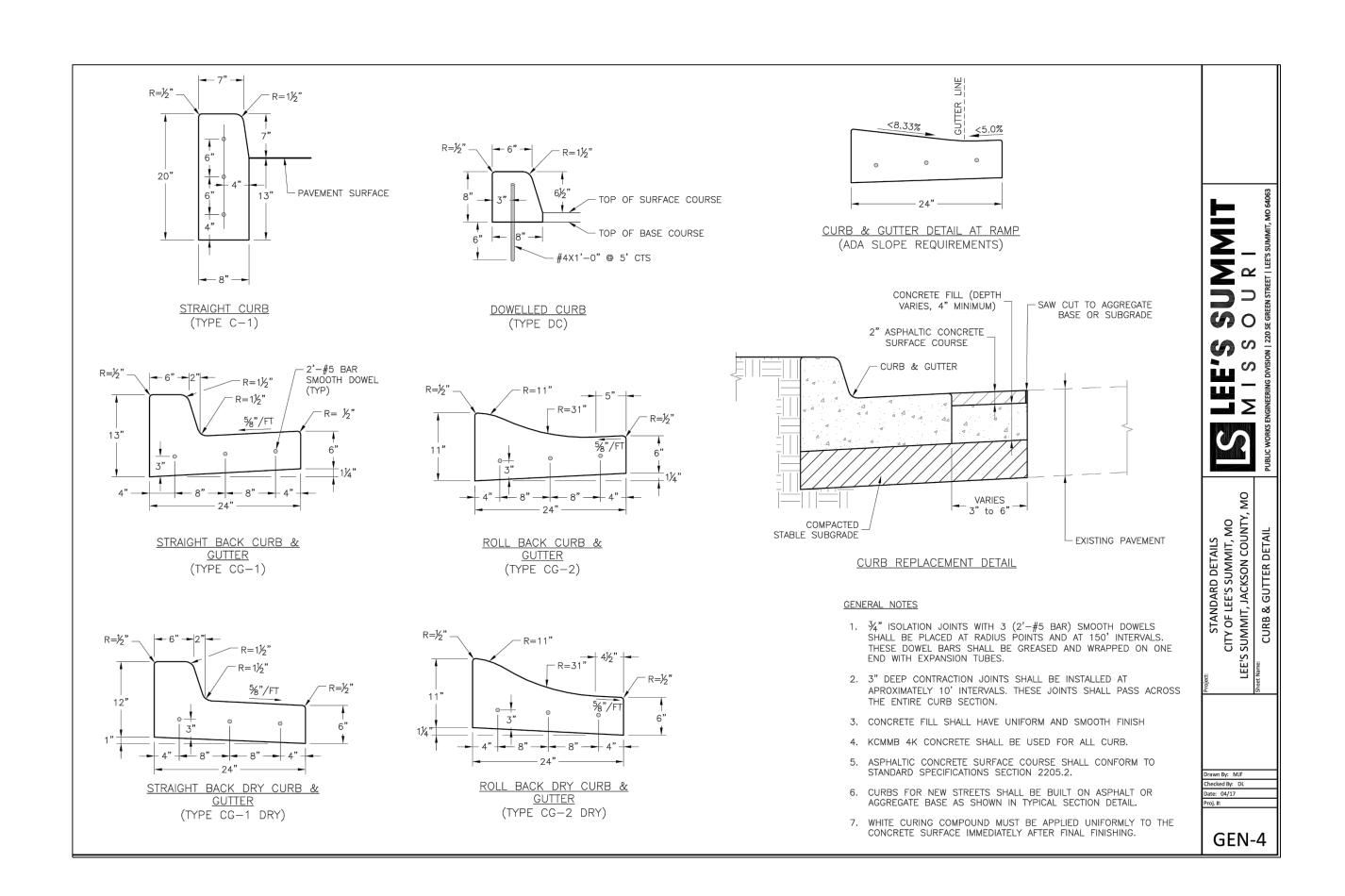
EXISTING CURB & GUTTER PROPOSED CURB & GUTTER

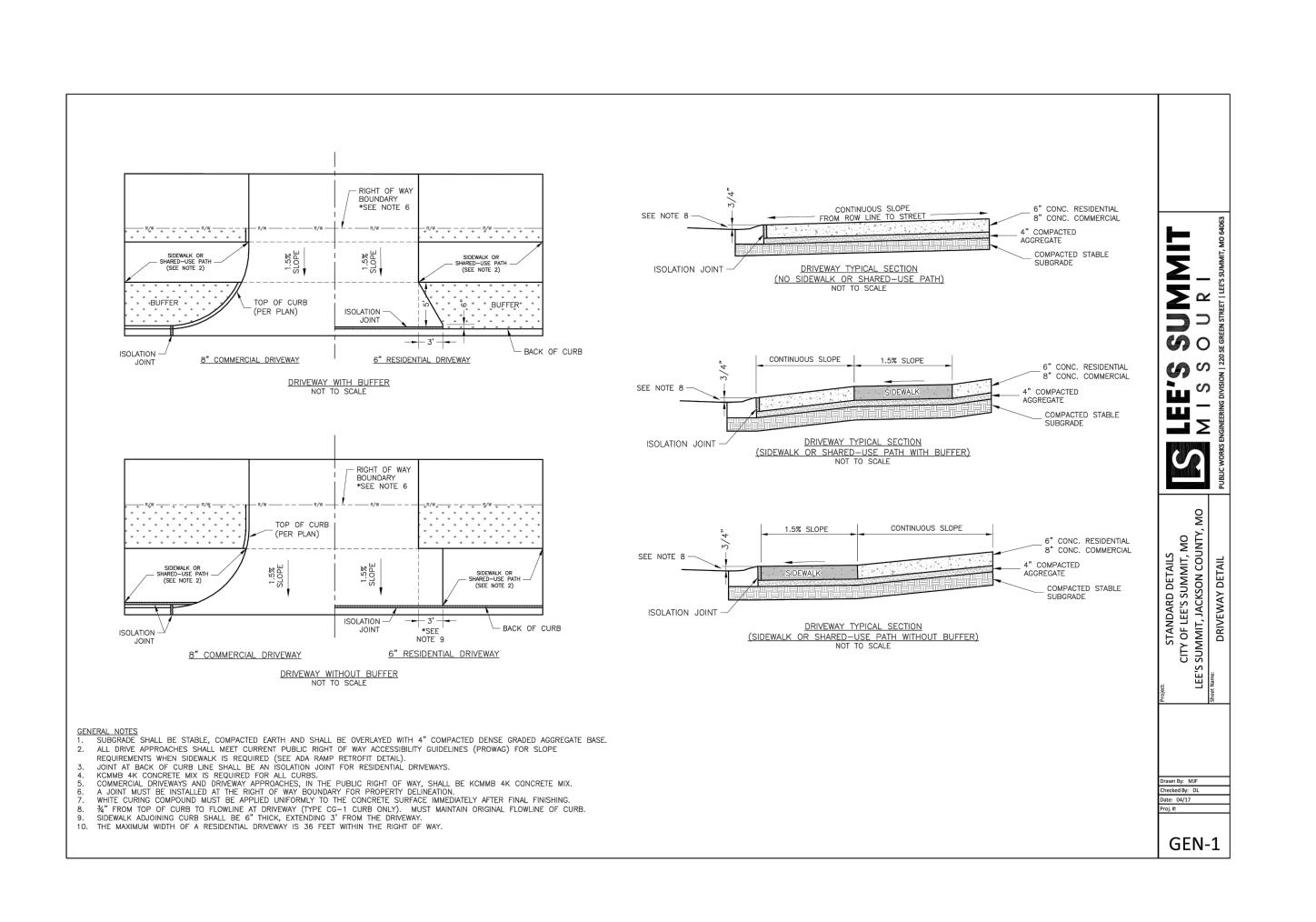
SHEET

ALL SIDEWALKS ADJACENT TO TRACTS AND UNPLATTED AREAS, AS WELL AS ALL ADA RAMPS SHALL BE CONSTRUCTED BY STREET CONTRACTOR. SIDEWALK ADJACENT TO LOTS SHALL BE CONSTRUCTED BY INDIVIDUAL HOME BUILDER.













A5

451, & TRACT AINAGE PLANANANS 1451, RAIN , AUDUBON MISSOURI OTS 1450, 1 AASTER DF MWATER F VINTERSET VALLEY REPLAT LO SEDIMENT CONTROL PLAN, N STREET, AND STORI

> STANDARD **DETAILS**

TABLE LS-2: MINIMUM ASPHALT PAVEMENT THICKNESSES

Street Classification	Pavement Option	AC Surface (in.)	AC Base (in.)	MoDOT Type 5 Base (in.)	Geogrid(1)	Chemical Subgrade Stabilization(2) (in.)
Residential Local/Access	A	2	4	6		6
	В	2	4	10	Geogrid	
Residential Collector	A	2	5.5	6		9
	В	2	5.5	12	Geogrid	
Commercial Industrial	A	2	7.5	6		9
Local/Collector	В	2	7.5	12	Geogrid	

TABLE LS-3: MINIMUM PCC PAVEMENT THICKNESSES

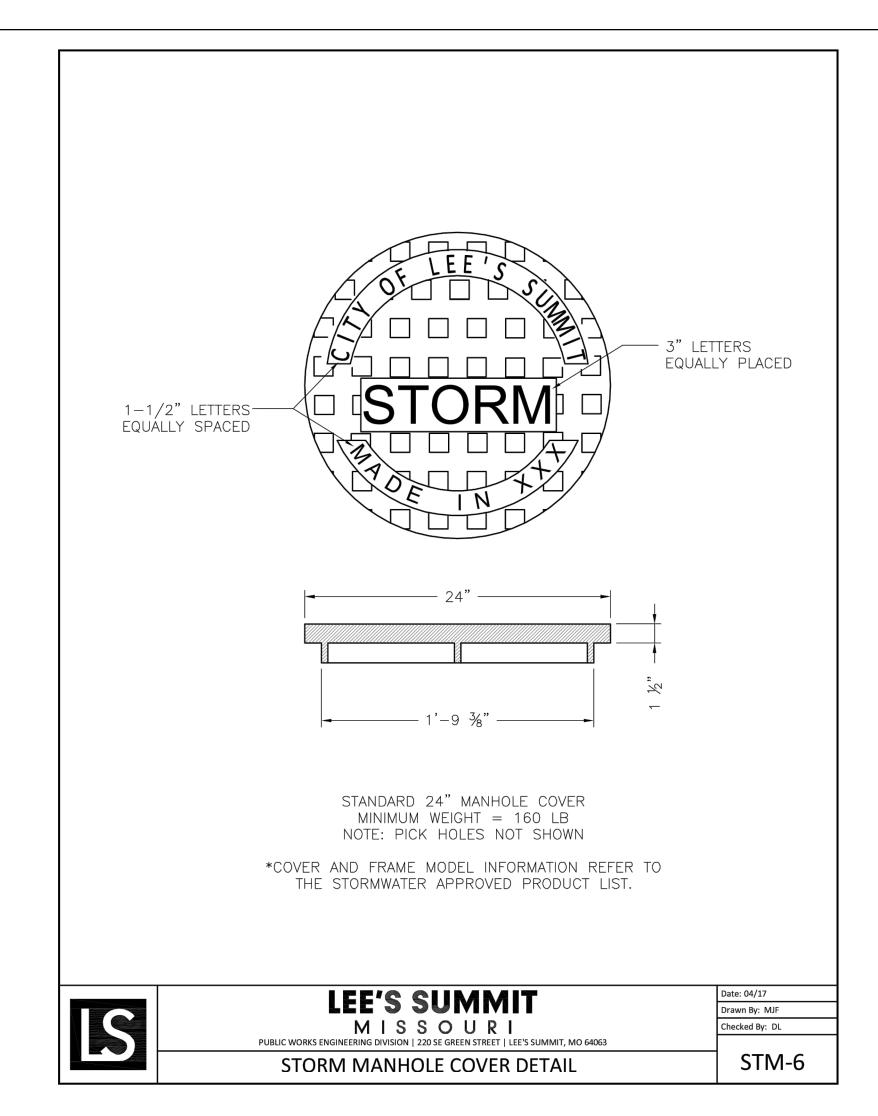
Street Classification	PCC (in.)	Aggregate Base (in.)	Subgrade Stabilization ⁽¹⁾ (in.)
Residential Local/Access	6	4	
Residential Collector	6	4	6
Commercial Industrial Local/Collector	8	4	9

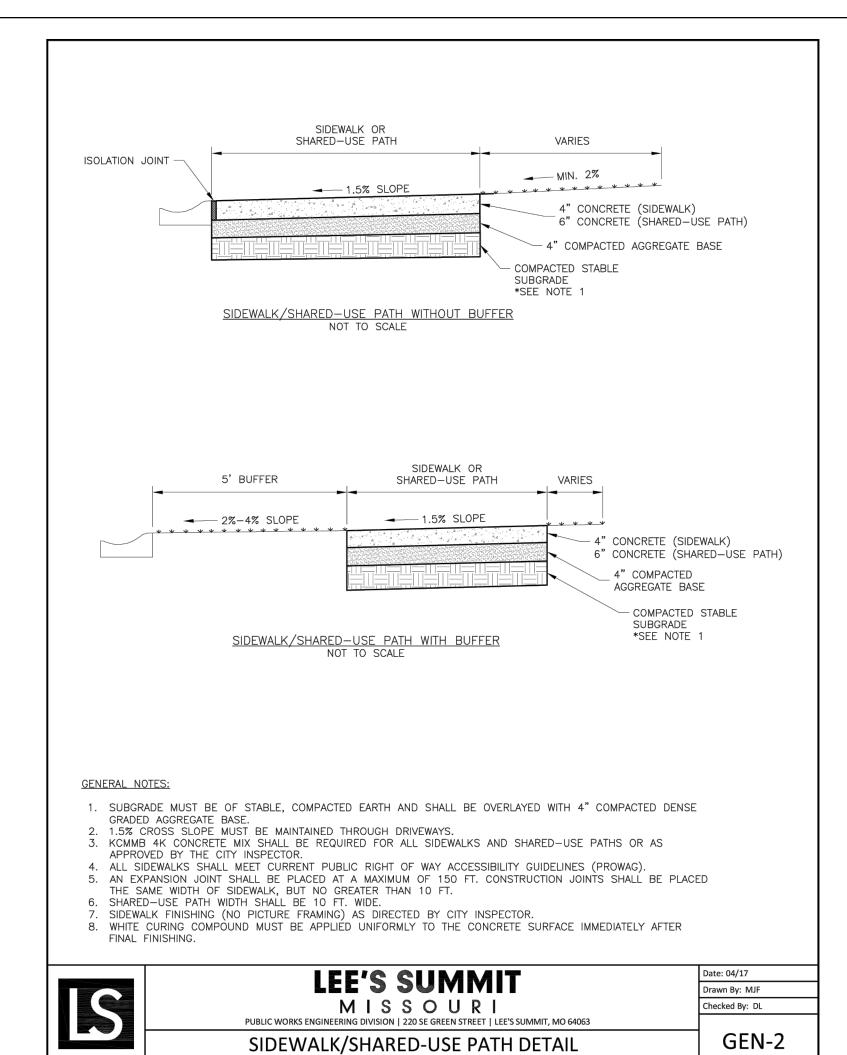
(1) Subgrade Stabilization and 4" aggregate base may be replaced by approved geogrid and 6" of aggregate base

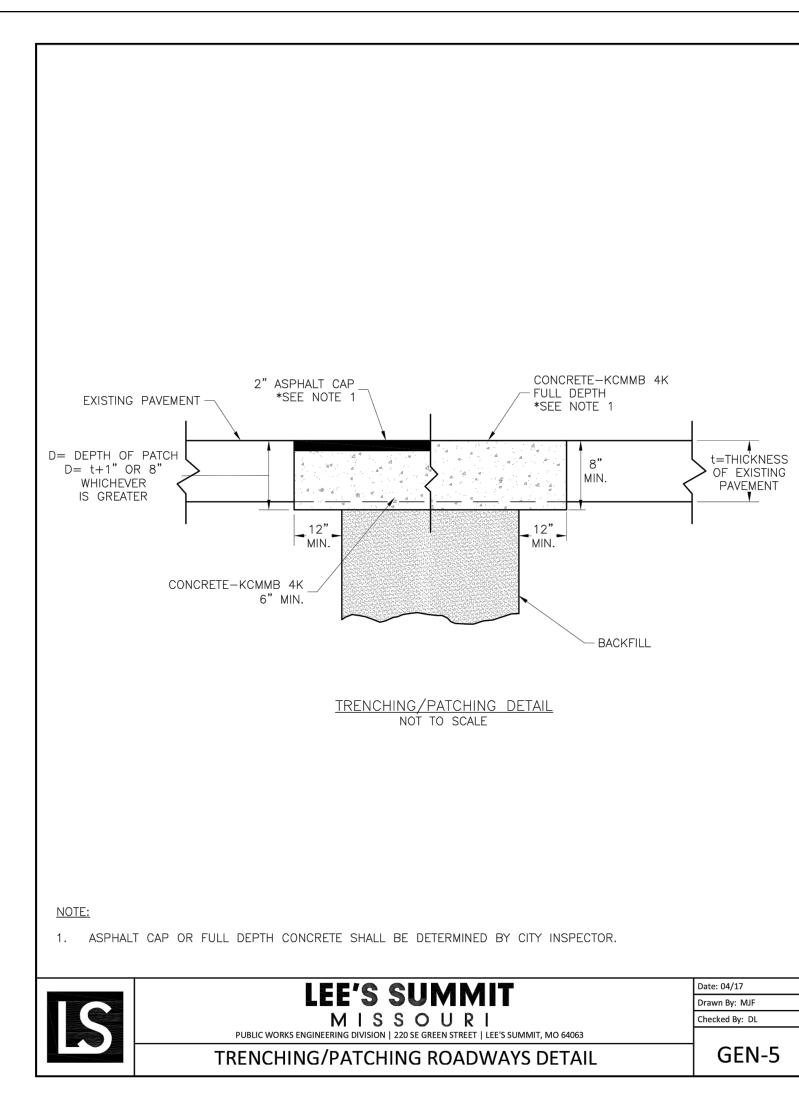
LS5200

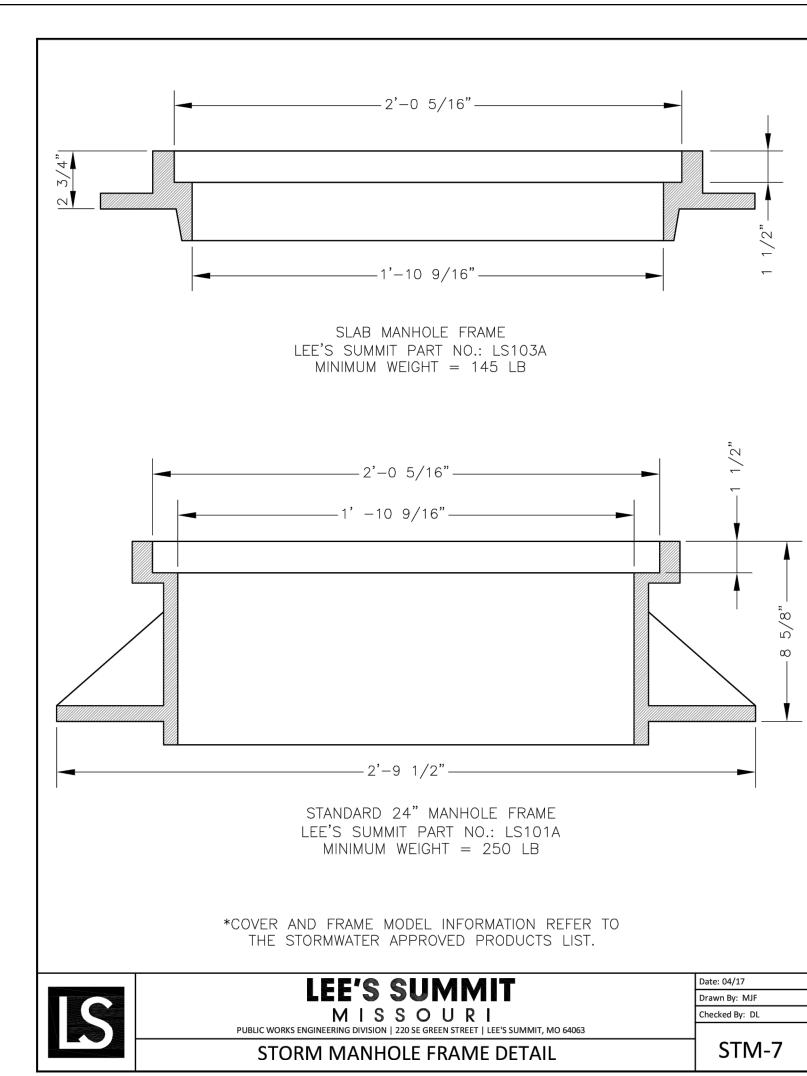
16

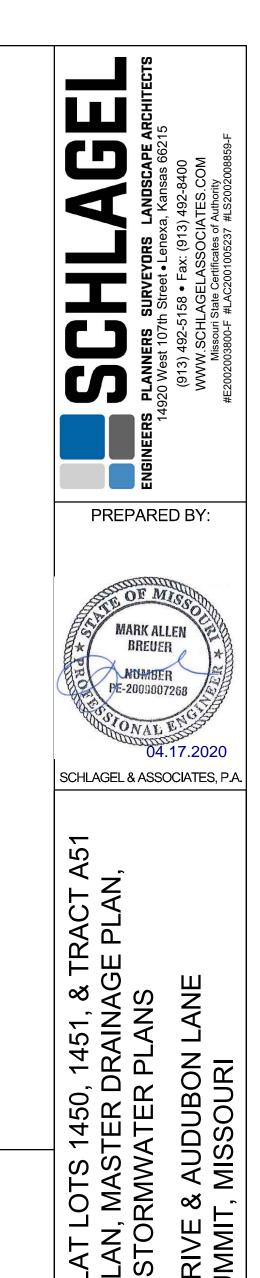
October 2016











WINTERSET VALLEY REPLAT LOTS SEDIMENT CONTROL PLAN, MAS STREET, AND STORMW CARSON DRIVE & LEE'S SUMMIT, STANDARD **DETAILS** SHEET