

TEMPORARY STORAGE AREA FOR EXCESS MATERIAL

TEMP. CONSTRUCTION ENTRANCE AND STAGING AREA

CONCRETE WASHOUT AREA

SILT FOAM DIKE OR STRAW WATTLE - STAKED & INSTALL PER MFR'S RECOMMENDATIONS

ROCK DITCH CHECK

STRAW WATTLE OR COIL LOG STAKED & INSTALL PER MFR'S RECOMMENDATIONS

SF1

SILT FENCE (PRIOR TO LAND DISTURBANCE)

SF2

SILT FENCE (DURING CONSTRUCTION)

SILT SOCK / ROCK SOCK / SOCK WATTLE

LIMITS OF DISTURBANCE

965

EXISTING CONTOURS

965

PROPOSED CONTOURS

GRAVEL FILTER FOR STORM SEWER STRUCTURES ONLY

1

BMP PLAN REF. NO.

DISTURBED AREA = 9.74 A.C.

SITE SPECIFIC NOTES:

- 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 29095C0419G 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.

EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	BMP PLAN REF. NO	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRIOR TO LAND DISTURBANCE	1	CONSTRUCTION ENTRANCE & STAGING AREA	D	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
	2	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
	3	EXISTING INLET PROTECTION	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	4	FOAM SILT DIKE OR ROCK DITCH CHECK	E	PLACE WHERE INDICATED AT EXISTING SWALES AND DRAINAGE COURSES
B - MASS GRADING	5	SEDIMENT BASINS (REF. DETAIL ON SHEET 6)	E	TO BE INSTALLED PRIOR TO DISTURBING ENTIRE SITE.
	6	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
	7	FOAM SILT DIKE OR STRAW WATTLE/COIL LOG CHECK	E	PLACE WHERE INDICATED AS SOON AS SWALE IS ESTABLISHED, REPAIR OR REPLACE AS NECESSARY
C - UTILITY CONSTRUCTION	8	CONCRETE WASHOUT AREA	E	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
	9	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
D - AFTER PAVING OPERATIONS	10	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
	11	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
	12	SEEDING AND MULCHING	E	ALL DISTURBED AREAS PRIOR TO 14 DAYS OF CONSTRUCTION INACTIVITY
E - UNTIL CLOSURE OF LAND DISTURBANCE PERMIT	13			ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED ANY TIME CURRENT MEASURES ARE FOUND TO BE INEFFECTIVE.

SCHLAGEL

ENGINEERS

PLANNERS

SURVEYORS

LANDSCAPE ARCHITECTS

14920 West 107th Street • Lenexa, Kansas 66215

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Missouri State Certificates of Authority

#E2002003600-F #LAC2001005237 #LS200200859-F

STATE OF MISSOURI

MARK ALLEN BREUER

PROFESSIONAL ENGINEER

NUMBER PE-2003007268

06.03.2021

WOODLAND GLEN 2ND PLAT
SANITARY SEWER MAIN EXTENSION

WARD ROAD AND WINTHROP DRIVE
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
4-21-2020	CITY COMMENTS
5-20-2020	CITY COMMENTS
01/12/2021	SCHLAGEL QUANTITIES
05/10/2021	SCH. REGRADE
06/03/2021	ESC SHEETS
2-20-2020	
18-017	

SAN EROS CONT PLAN

SHEET 2

LEGEND		
	TEMPORARY STORAGE AREA FOR EXCESS MATERIAL	
	TEMP. CONSTRUCTION ENTRANCE AND STAGING AREA	
	CONCRETE WASHOUT AREA	
	SILT FOAM DIKE STAKED & INSTALL PER MFR'S RECOMMENDATIONS	
	ROCK DITCH CHECK	
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	LIMITS OF DISTURBANCE	
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	PROPOSED CONTOURS	
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	BMP PLAN REF. NO.	

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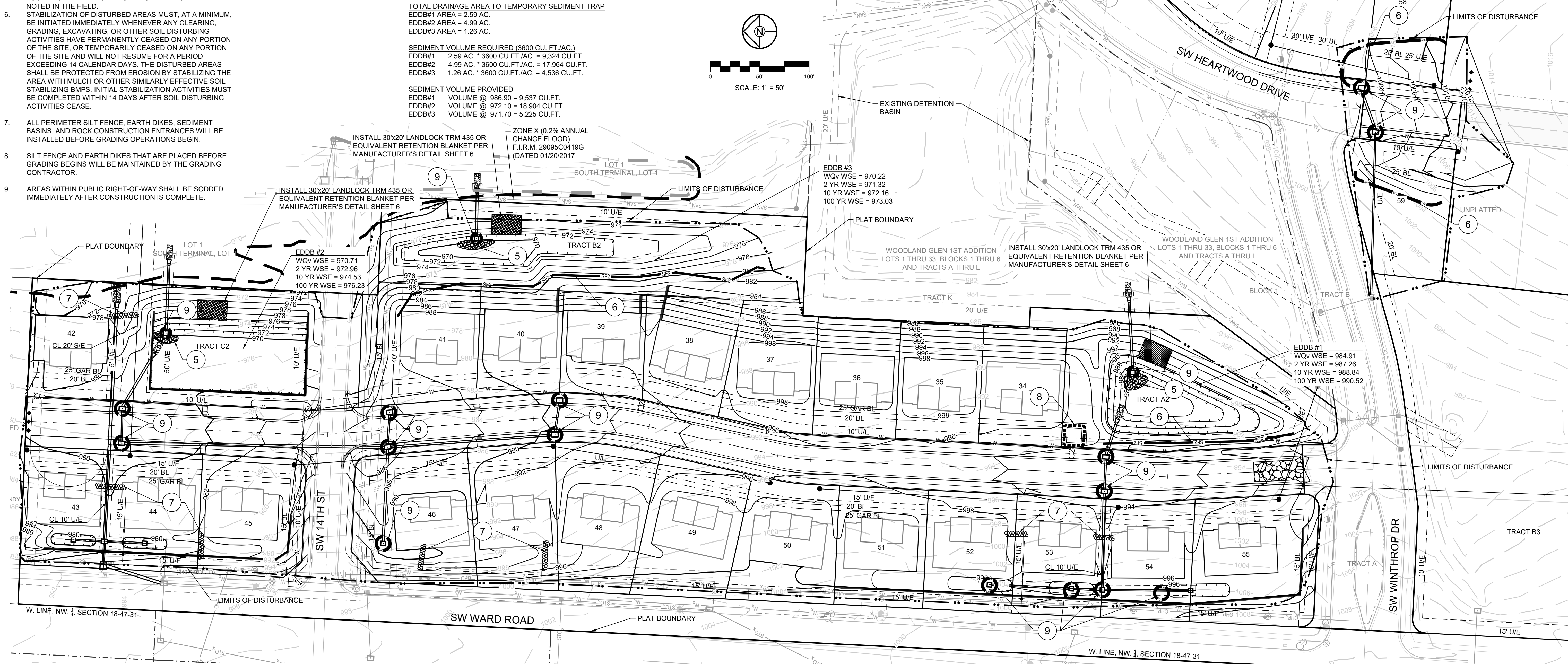
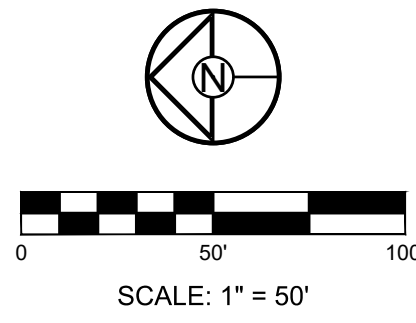
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TOTAL DRAINAGE AREA TO TEMPORARY SEDIMENT TRAP
EDDB#1 AREA = 2.59 AC.
EDDB#2 AREA = 4.99 AC.
EDDB#3 AREA = 1.26 AC.

SEDIMENT VOLUME REQUIRED (3600 CU. FT./AC.)
EDDB#1 2.59 AC. * 3600 CU.FT./AC. = 9,324 CU.FT.
EDDB#2 4.99 AC. * 3600 CU.FT./AC. = 17,964 CU.FT.
EDDB#3 1.26 AC. * 3600 CU.FT./AC. = 4,536 CU.FT.

SEDIMENT VOLUME PROVIDED
EDDB#1 VOLUME @ 986.90 = 9,537 CU.FT.
EDDB#2 VOLUME @ 972.10 = 18,904 CU.FT.
EDDB#3 VOLUME @ 971.70 = 5,225 CU.FT.

INSTALL 30"x20" LANDLOCK TRM 435 OR EQUIVALENT RETENTION BLANKET PER MANUFACTURER'S DETAIL SHEET 6
ZONE X (0.2% ANNUAL CHANCE FLOOD)
F.I.R.M. 29095C0419G
(DATED 01/20/2017)



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2-20-2020	
PROJ. NUMBER:	18-017

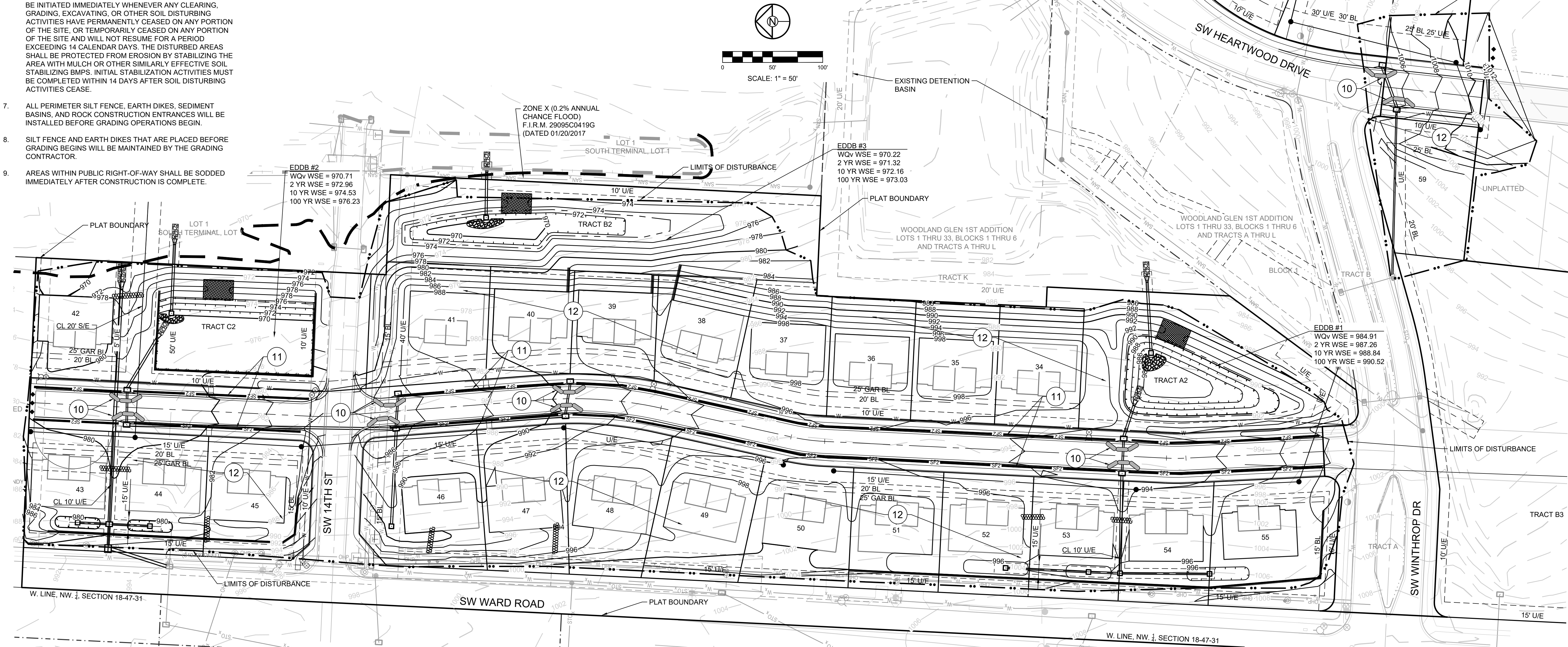
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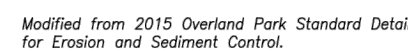


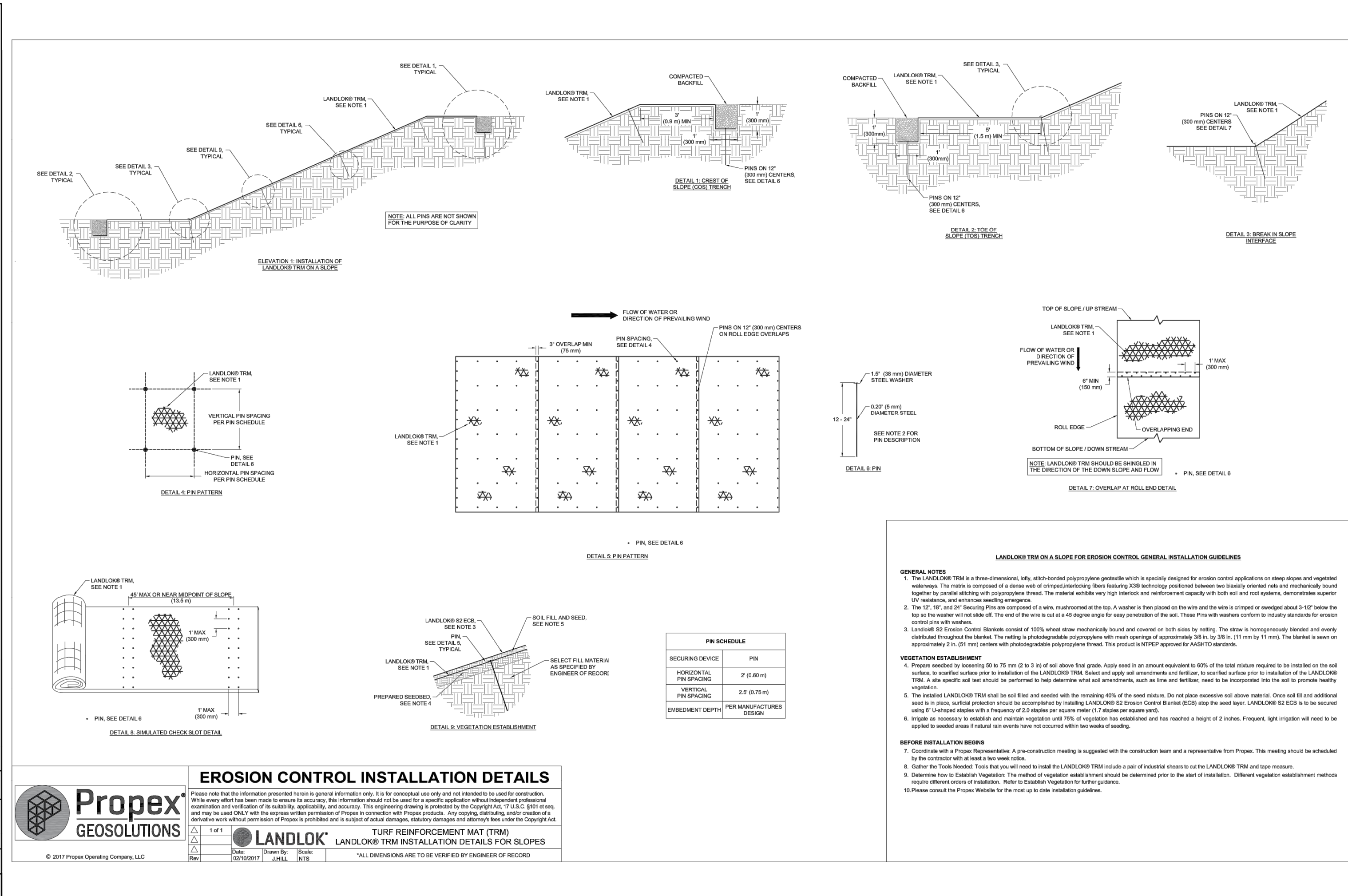
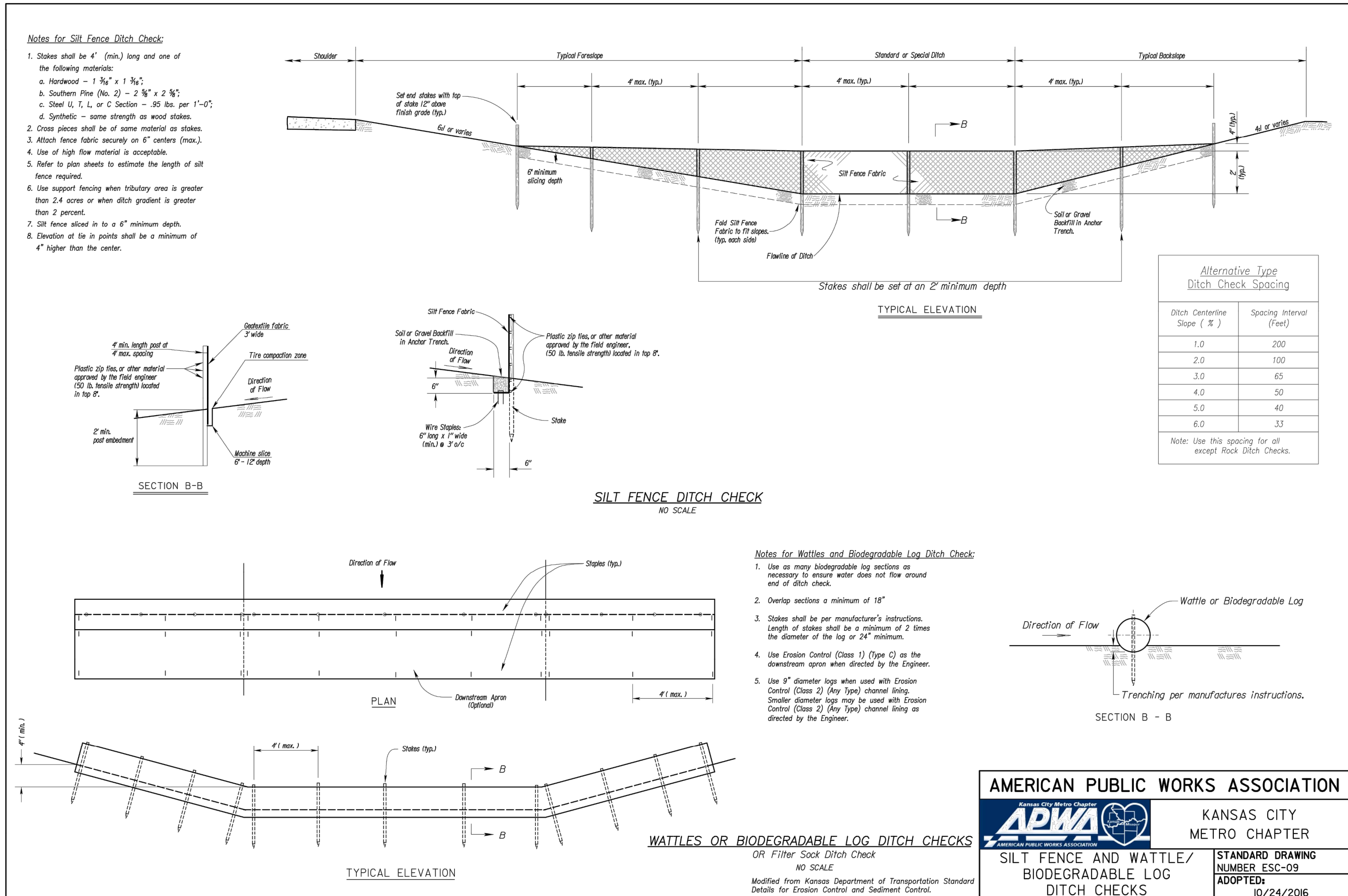
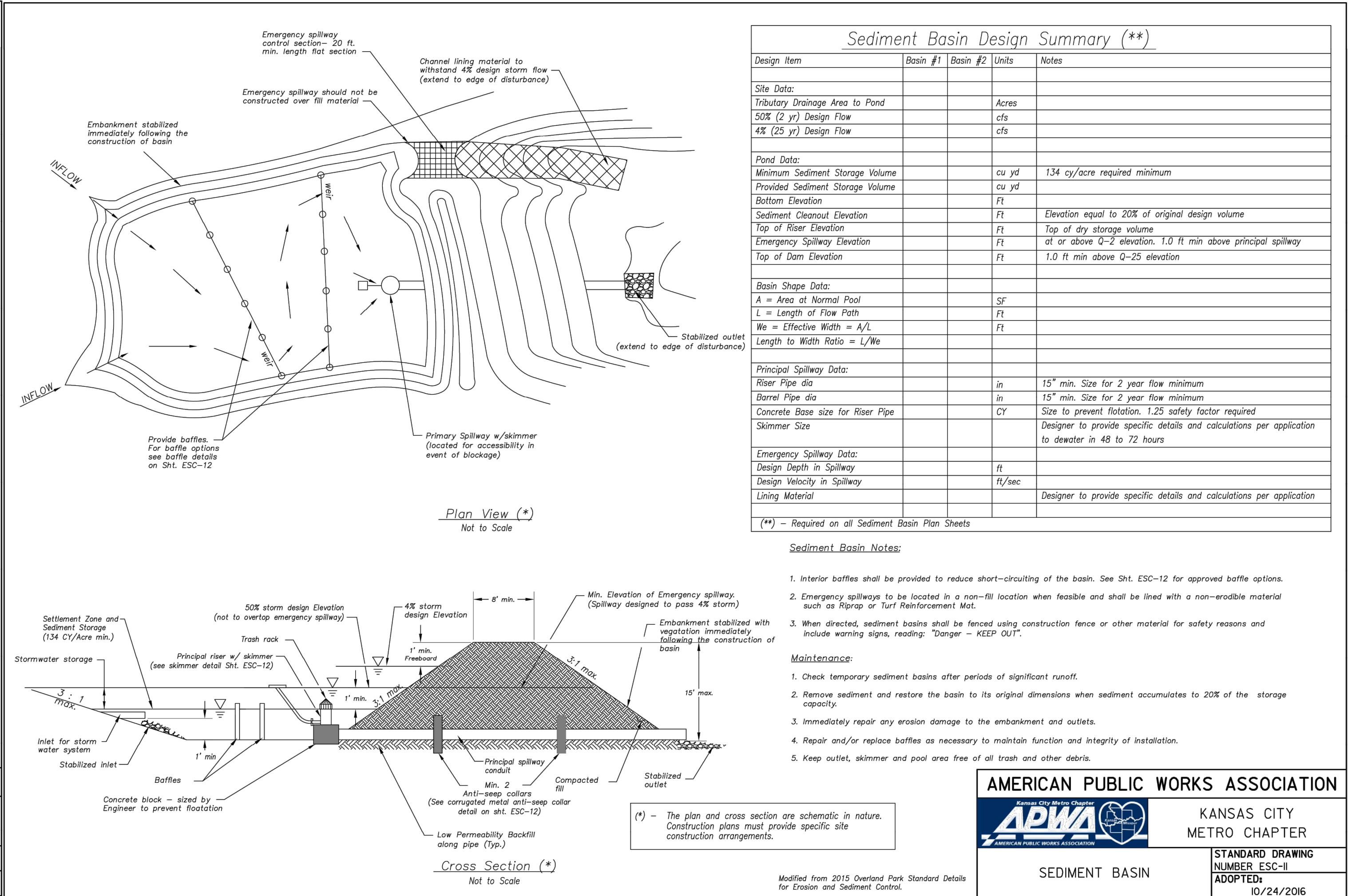
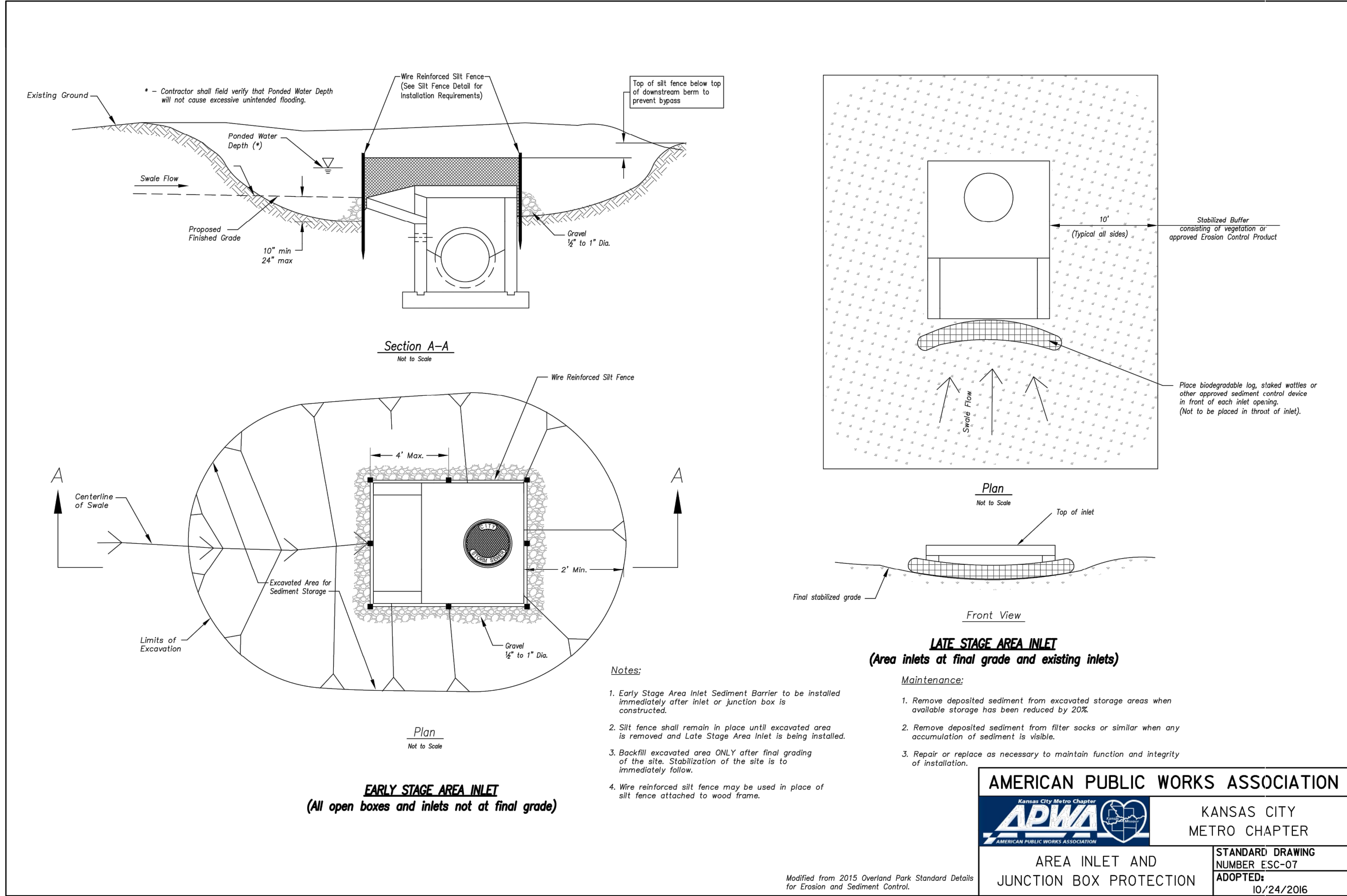
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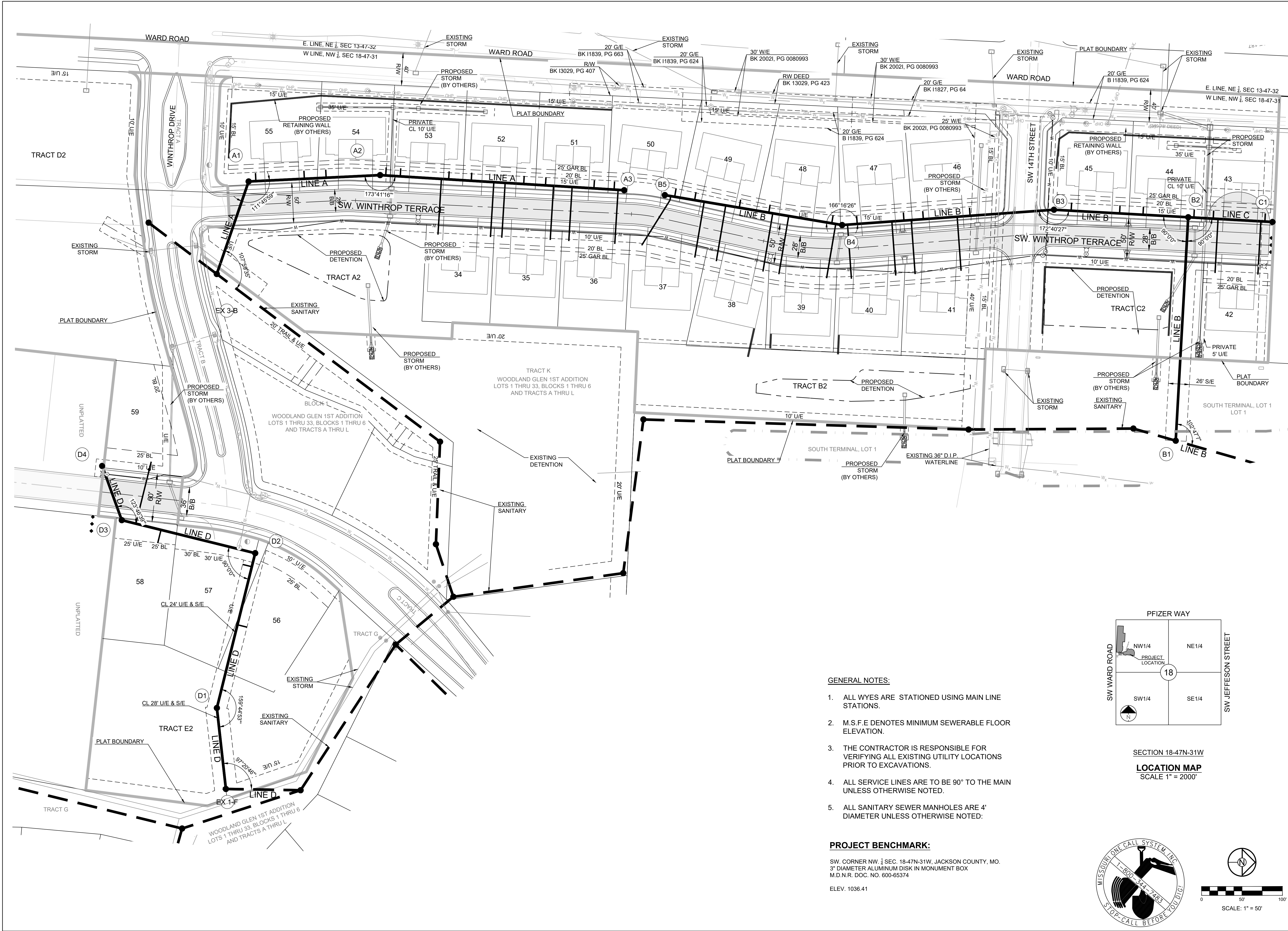
DRAWN BY:	BAL
CHECKED BY:	MAB
DATE PREPARED:	2-20-2020
PROJ. NUMBER:	18-017

SAN EROS CONT
PLAN

SHEET





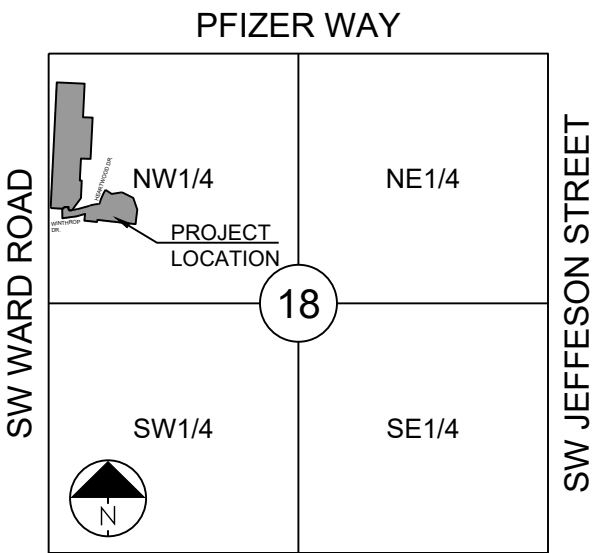


GENERAL NOTES:

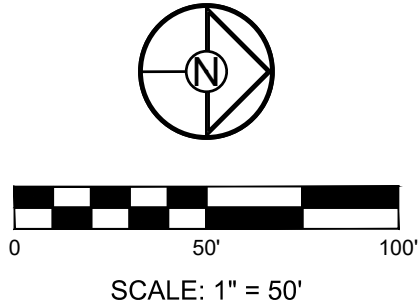
- ALL WYES ARE STATIONED USING MAIN LINE STATIONS.
- M.S.F.E DENOTES MINIMUM SEWERABLE FLOOR ELEVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.
- ALL SERVICE LINES ARE TO BE 90° TO THE MAIN UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED:

PROJECT BENCHMARK:

SW. CORNER NW 1/4 SEC. 18-47N-31W, JACKSON COUNTY, MO.
3" DIAMETER ALUMINUM DISK IN MONUMENT BOX
M.D.N.R. DOC. NO. 600-65374
ELEV. 1036.41

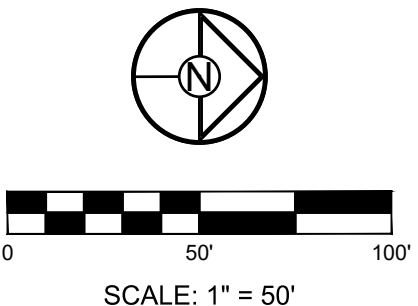


SECTION 18-47N-31W
LOCATION MAP
SCALE 1" = 2000'



WOODLAND GLEN 2ND PLAT
SANITARY SEWER MAIN EXTENSION
WARD ROAD AND WINTHROP DRIVE
LEE'S SUMMIT, MISSOURI

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SW. CORNER NW. $\frac{1}{4}$ SEC. 18-47N-31W, JACKSON COUNTY, MO.
3" DIAMETER ALUMINUM DISK IN MONUMENT BOX
M.D.N.R. DOC. NO. 600-65374

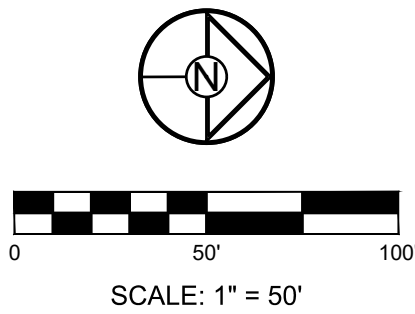
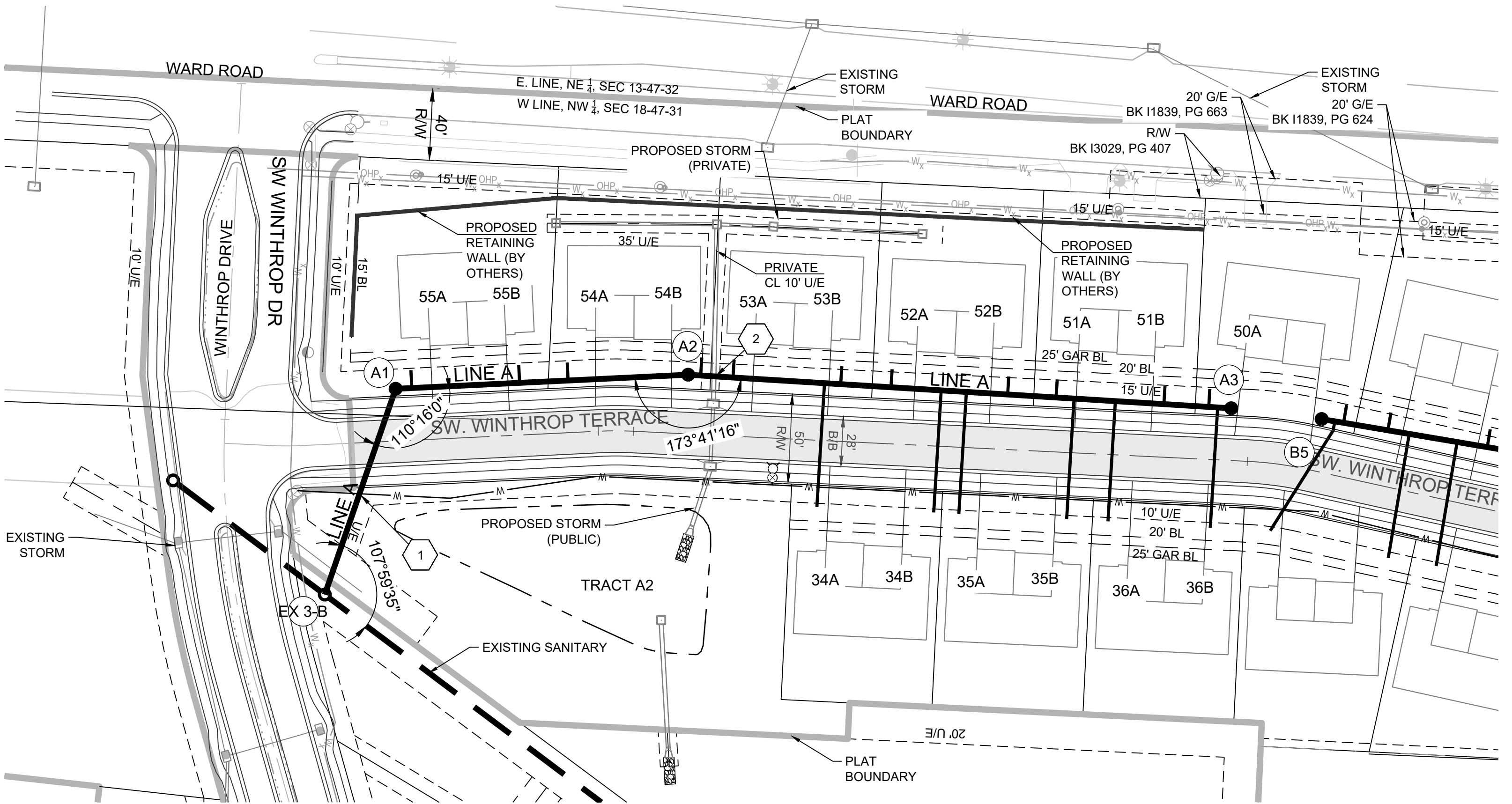
ELEV. 1036.41

SHEET

Lot No.	WYE STA	Stub		Riser	EOS Elev	MSFE Elev	Cleanout
		Length (L.F.)	Slope (%)				
34A	359.84	69	1.30	0.00	984.76	987.76	NO
34B	424.84	68	1.30	0.00	985.33	988.33	NO
35A	438.84	67	1.30	2.00	986.85	989.85	NO
35B	498.84	67	1.30	0.00	985.99	988.99	NO
36A	521.84	67	1.30	0.00	986.19	989.19	NO
36B	578.84	67	1.30	0.00	986.71	989.71	NO
50A	573.84	8	1.30	3.00	988.01	991.01	NO
51B	548.84	9	1.30	2.00	987.09	990.09	NO
51A	488.84	9	1.30	2.00	986.55	989.55	NO
52B	461.84	10	1.30	0.00	984.91	987.91	NO
52A	396.84	10	1.30	0.00	984.33	987.33	NO
53B	368.84	10	1.30	0.00	984.07	987.07	NO
53A	308.84	10	1.30	0.00	983.53	986.53	NO
54B	290.84	10	1.30	0.00	983.37	986.37	NO
54A	217.03	9	1.30	2.00	983.81	986.81	NO
55B	190.03	6	1.30	6.00	986.32	989.32	NO
55A	130.03	6	1.30	6.00	985.70	988.70	NO

SANITARY CROSSING TABLE						
ID	SAN ELEV.	STORM/WATER ELEV.	SAN SIZE	STORM/WATER SIZE	VERTICAL SEPARATION	RCE/CRCE REQUIRED?
1	978.97	991.38	8" PCV	8" PVC	11.68	NO
2	982.58	988.78	8" PCV	15" HDPE	5.49	NO

Structure Table		
Structure Name	Structure Northing	Structure Easting
A1	992504.4316	2818397.8530
A2	992667.0525	2818389.9810
A3	992969.0240	2818408.6667
EX 3-B	992465.0382	2818512.2921



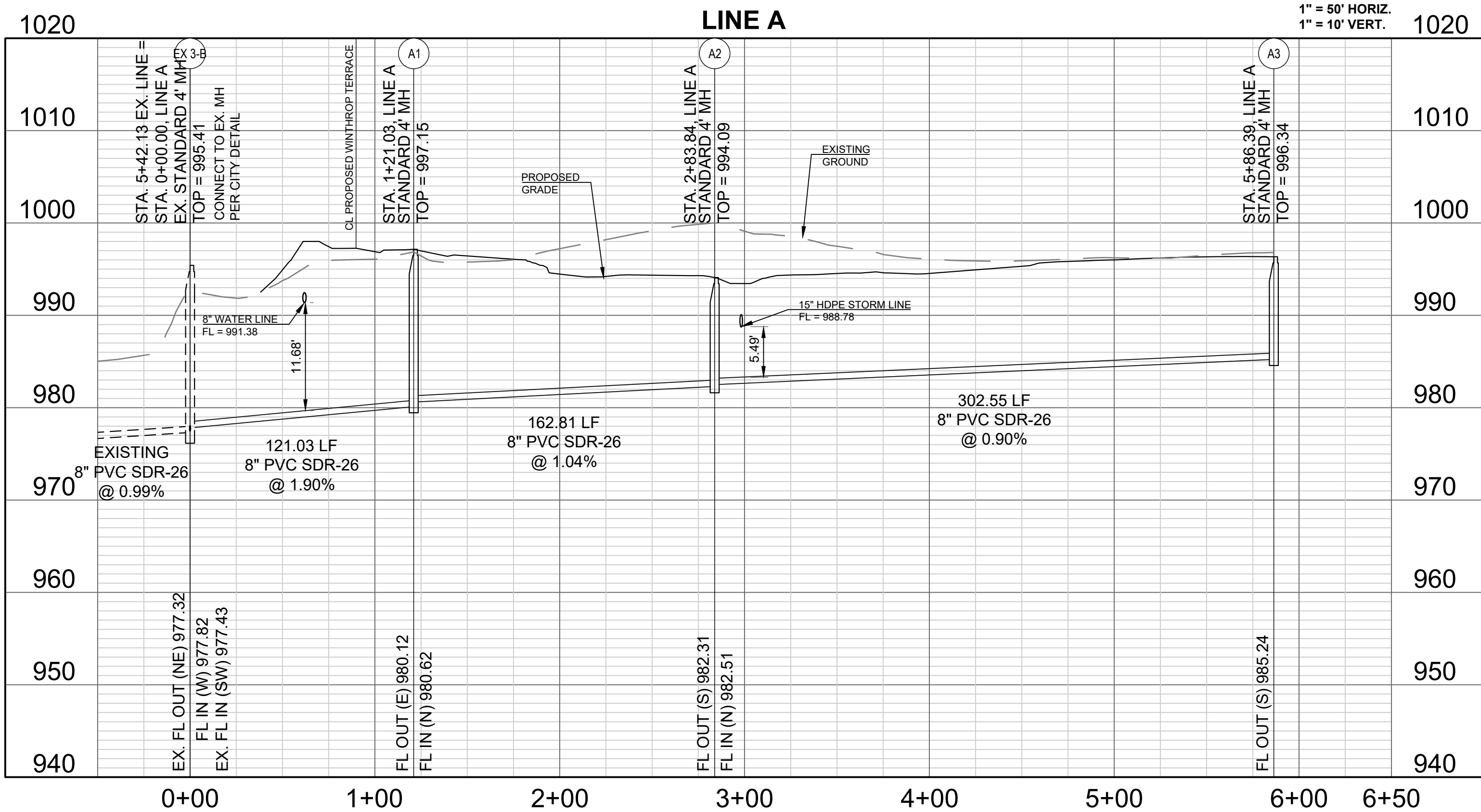
GENERAL NOTES:

1. ALL WYES ARE STATIONED USING MAIN LINE STATIONS.
2. M.S.F.E DENOTES MINIMUM SEWERABLE FLOOR ELEVATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.
4. ALL SERVICE LINES ARE TO BE 90° TO THE MAIN UNLESS OTHERWISE NOTED.
5. ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED:

PROJECT BENCHMARK:

SW. CORNER NW 1/4 SEC. 18-47N-31W, JACKSON COUNTY, MO.
3" DIAMETER ALUMINUM DISK IN MONUMENT BOX
M.D.N.R. DOC. NO. 600-65374

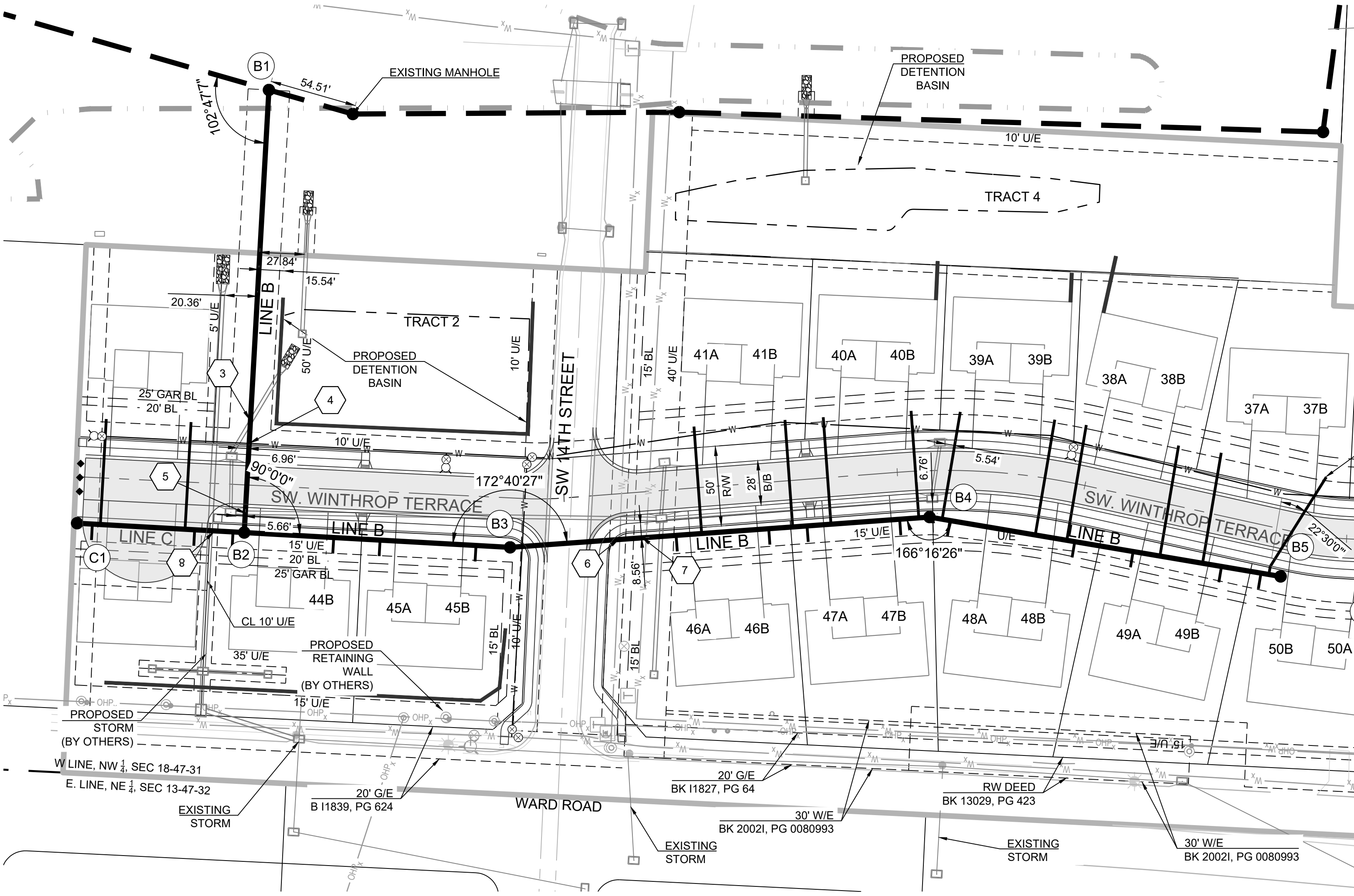
ELEV. 1036.41



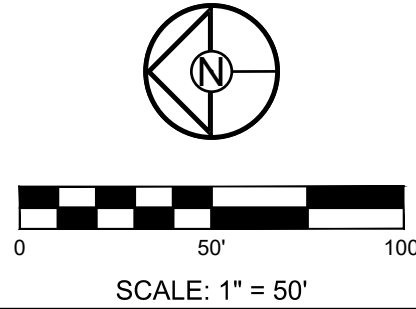
REVISION DATE	DESCRIPTION
4-21-2020	CITY COMMENTS
5-20-2020	CITY COMMENTS
01/12/2021	SCHLAGEL QUANTITIES
05/10/2021	SCH. REGRADE
06/03/2021	ESC SHEETS
2-20-2020	
18-017	

Lot No.	WYE STA	Stub Length (L.F.)	Stub Slope (%)	Riser Length (L.F.)	EOS Elev	MSFE Elev	Cleanout
37B	920.89	71	1.30	0.00	987.13	990.13	NO
37A	878.89	70	1.30	0.00	985.67	988.67	NO
38B	851.89	70	1.30	0.00	984.73	987.73	NO
38A	792.89	70	1.30	4.00	985.52	988.52	NO
39B	772.89	73	1.30	0.00	982.04	985.04	NO
39A	713.89	65	1.30	4.00	982.72	985.72	NO
40B	699.18	67	1.30	0.00	979.27	982.27	NO
40A	644.18	65	1.30	3.00	979.96	982.96	NO
41B	620.18	67	1.30	0.00	977.26	980.26	NO
41A	563.18	67	1.30	0.00	975.80	978.80	NO
44B	332.84	10	1.30	0.00	968.89	971.89	NO
45A	361.84	9	1.30	2.00	971.05	974.05	NO
45B	421.84	10	1.30	0.00	971.24	974.24	NO
46A	547.18	6	1.30	6.00	978.84	981.84	NO
46B	605.18	7	1.30	4.00	978.92	981.92	NO
47A	629.18	4	1.30	8.00	982.33	985.33	NO
47B	687.18	6	1.30	6.00	982.41	985.41	NO
48A	718.89	4	1.30	8.00	984.93	987.93	NO
48B	797.89	6	1.30	6.00	986.27	989.27	NO
49A	834.89	6	1.30	6.00	987.55	990.55	NO
49B	890.89	7	1.30	4.00	988.09	991.09	NO
50B	915.89	8	1.30	3.00	988.26	991.26	NO

SANITARY CROSSING TABLE						
ID	SAN ELEV.	STORM/WATER ELEV.	SAN SIZE	STORM/WATER SIZE	VERTICAL SEPARATION	RCE/CRCE REQUIRED?
3	964.33	970.18	8" PCV	30" HDPE	5.14	NO
4	964.67	974.85	8" PCV	8" PVC	9.46	NO
5	965.88	971.53	8" PCV	24" HDPE	4.94	NO
6	973.04	978.16	8" PCV	36" DIP	4.03	NO
7	973.70	978.65	8" PCV	15" HDPE	4.38	NO



INSTALL 5 L.F. OF 6" PVC
THEN 6" 22.5" BEND
THEN 65 L.F. OF 6" PVC



PROJECT BENCHMARK:

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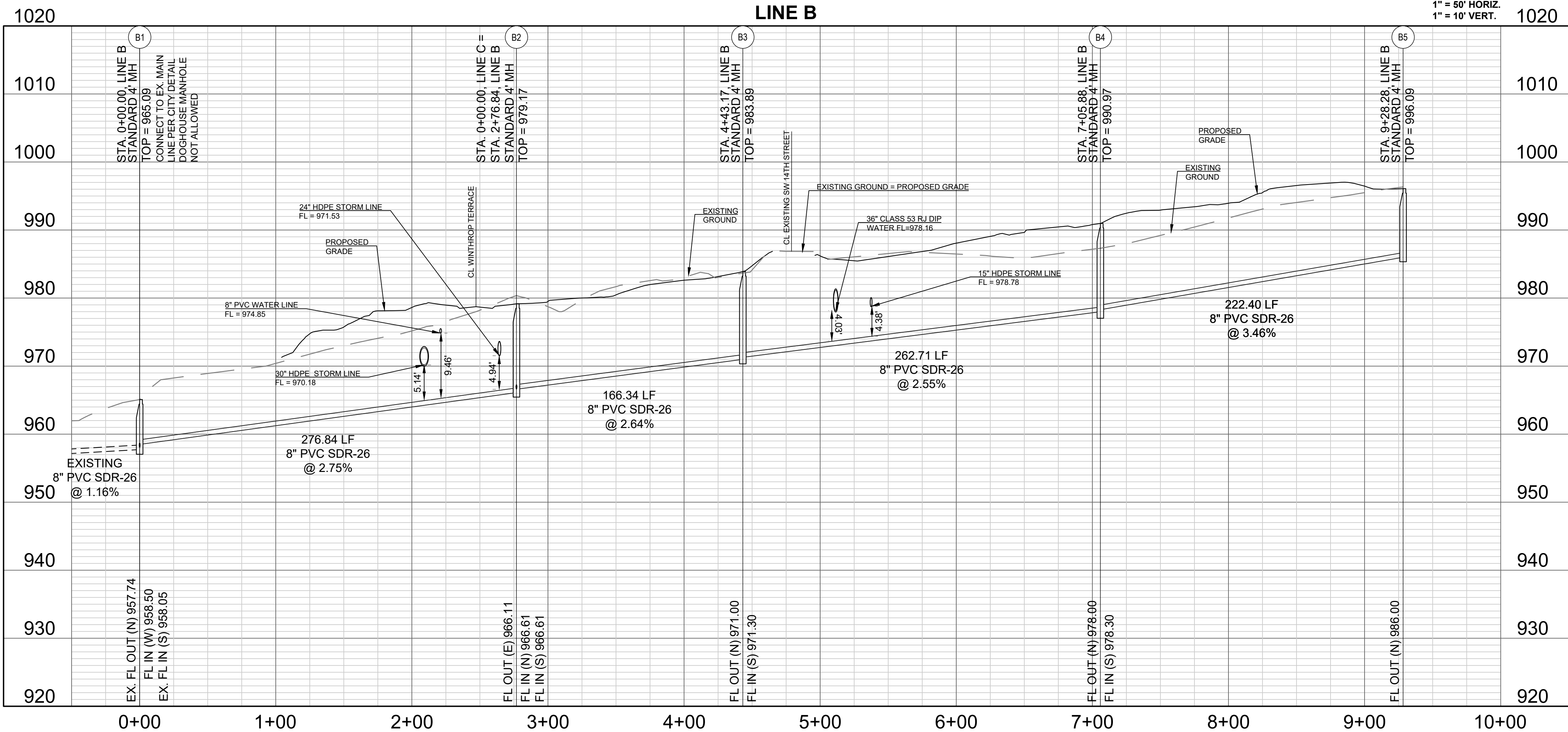
GENERAL NOTES:

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WOODLAND GLEN 2ND PLAT SANITARY SEWER MAIN EXTENSION WARD ROAD AND WINTHROP DRIVE LEE'S SUMMIT, MISSOURI

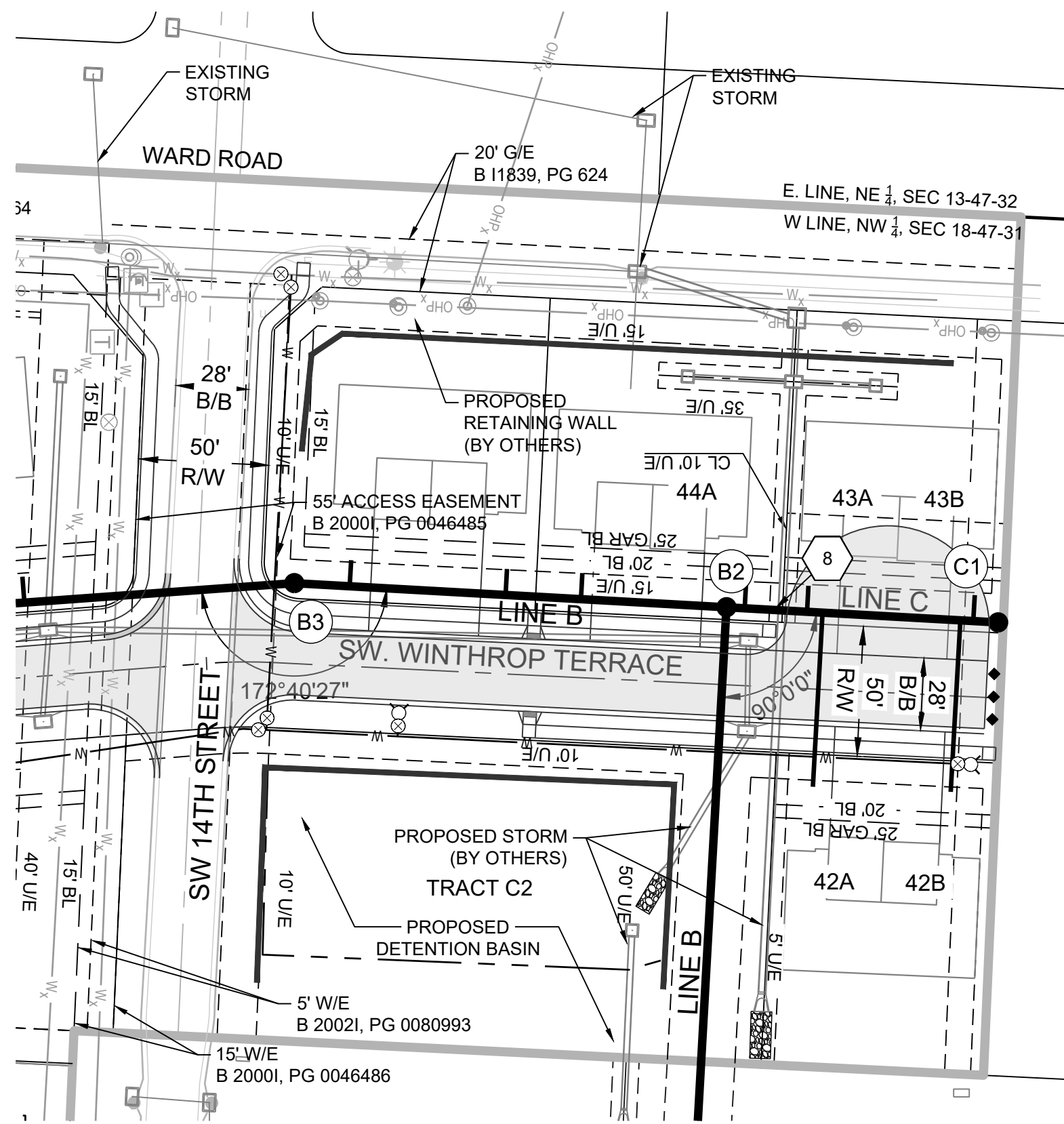
Structure Table		
Structure Name	Structure Northing	Structure Easting
B1	993651.2313	2818718.4949
B2	993666.6637	2818442.0890
B3	993500.5868	2818432.8165
B4	993238.5614	2818451.7377
B5	993019.2687	2818414.6635



REVISION DATE	DESCRIPTION
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05/10/2021	SCH. REGRADE
06/03/2021	ESC SHEETS
2-20-2020	DATE PREPARED
18-017	PROJ. NUMBER

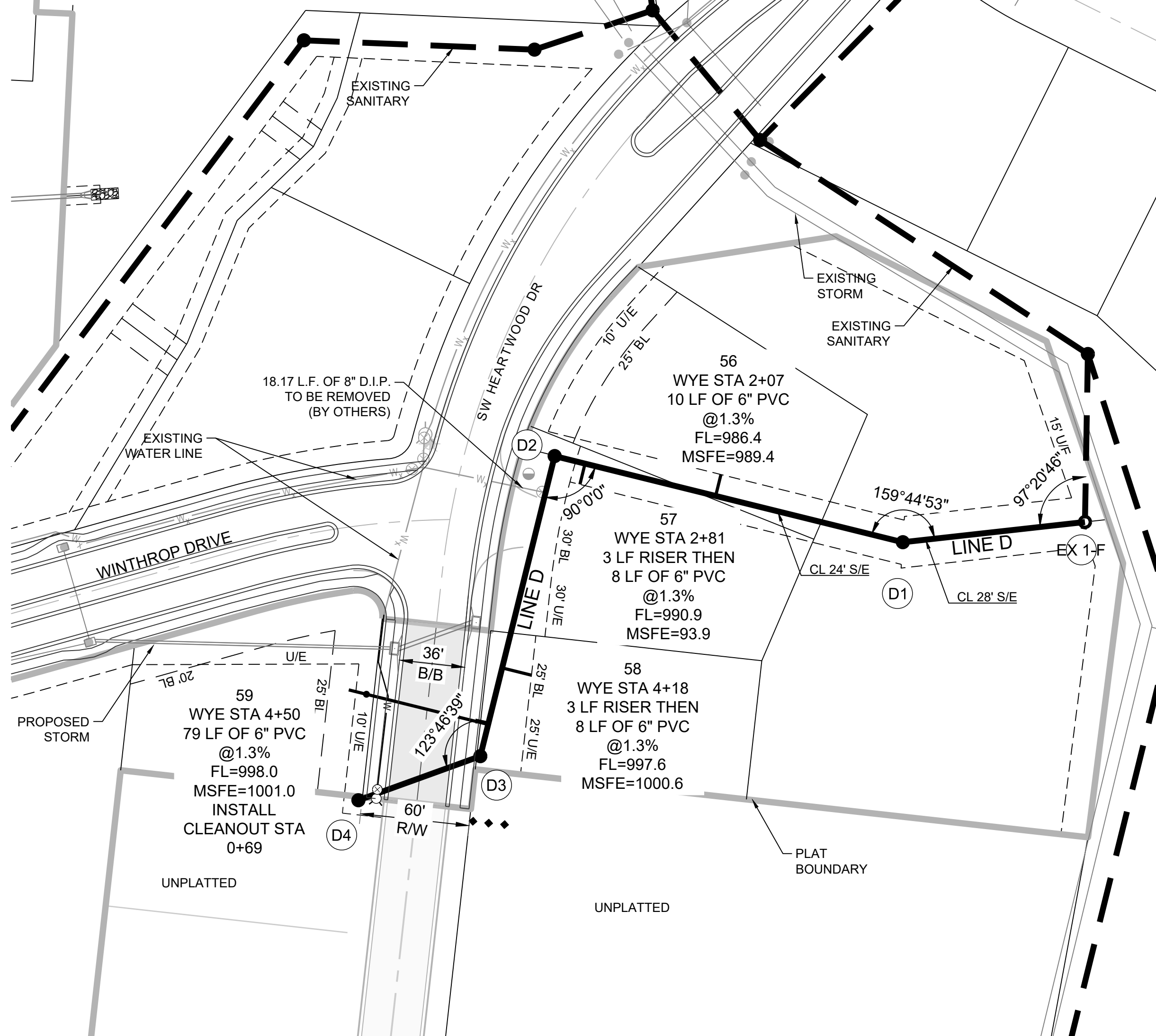
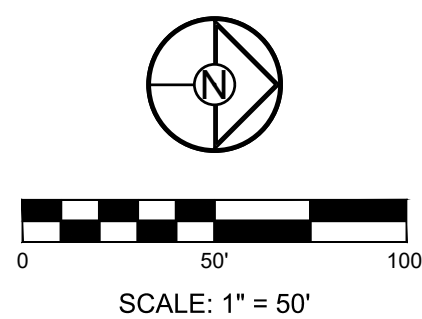
LINE B PLAN AND PROFILE

SHEET



Lot No.	WYE STA	Stub Length (L.F.)	Stub Slope (%)	Riser Length (L.F.)	Riser Slope (%)	EOS Elev	MSFE	Cleanout
42A	37.00	67	1.30	0.00	0.00	968.52	971.52	NO
42B	90.00	66	1.30	0.00	0.00	969.03	972.03	NO
43B	95.00	8	1.30	3.00	0.00	970.45	973.45	NO
43A	31.00	8	1.30	3.00	0.00	969.81	972.81	NO
44A	7.00	8	1.30	3.00	0.00	969.57	972.57	NO

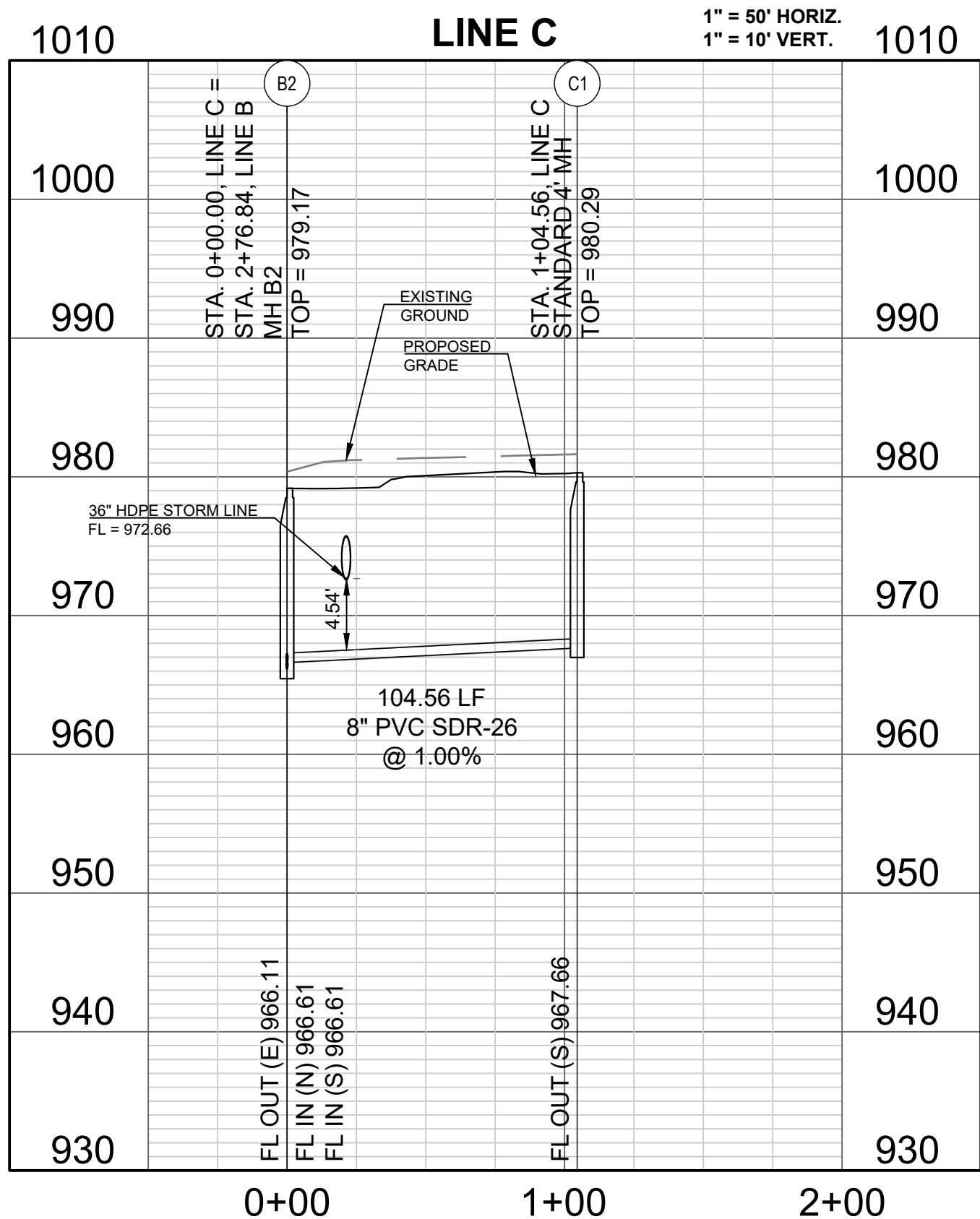
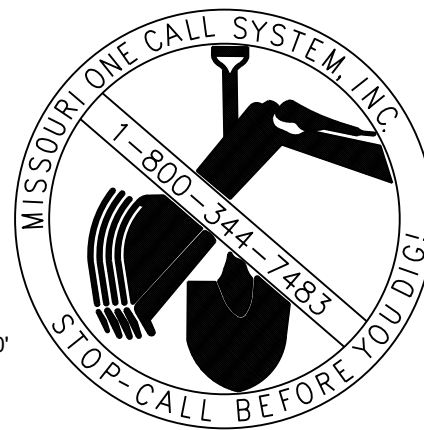
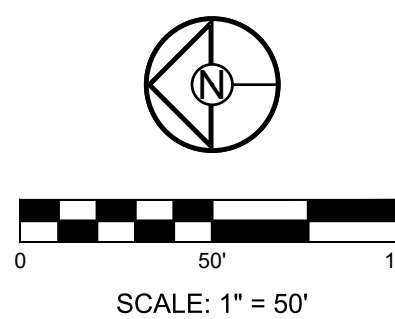
STORM/WATER		STORM/WATER		VERTICAL		RCE/CRCE	
ID	SAN ELEV.	ELEV.	SAN SIZE	SIZE	SEPARATION	REQUIRED?	
8	966.71	971.97	8" PCV	36" HDPE	4.54	NO	



- GENERAL NOTES:**
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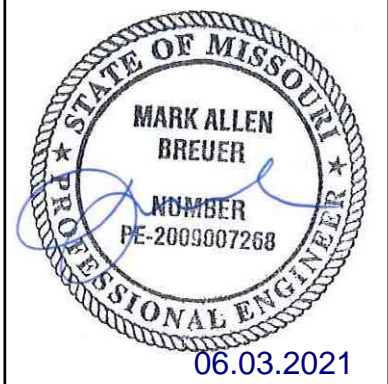
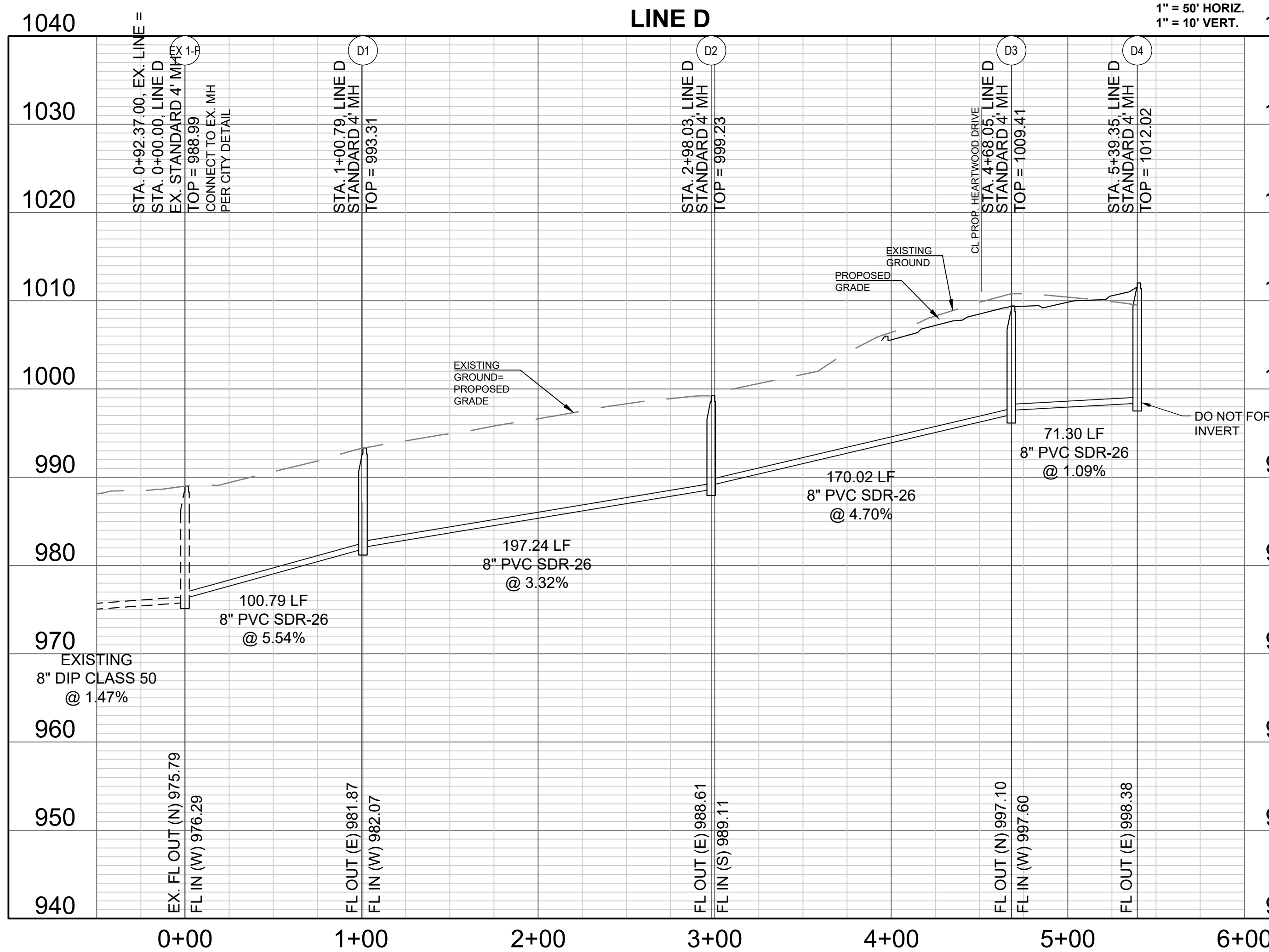
PROJECT BENCHMARK:

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M.D.N.R. DOC. NO. 600-65374
ELEV. 1036.41



Structure Table		
Structure Name	Structure Northing	Structure Easting
B2	993666.6637	2818442.0890
C1	993771.0575	2818447.9175

Structure Table		
Structure Name	Structure Northing	Structure Easting
D1	992465.1668	2819049.0765
D2	992512.5490	2818857.6124
D3	992347.5106	2818816.7699
D4	992323.2667	2818749.7146
EX 1-F	992476.3180	2819149.2468



**WOODLAND GLEN 2ND PLAT
SANITARY SEWER MAIN EXTENSION
WARD ROAD AND WINTHROP DRIVE
LEE'S SUMMIT, MISSOURI**

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LINE C-D PLAN AND PROFILE

SHEET

