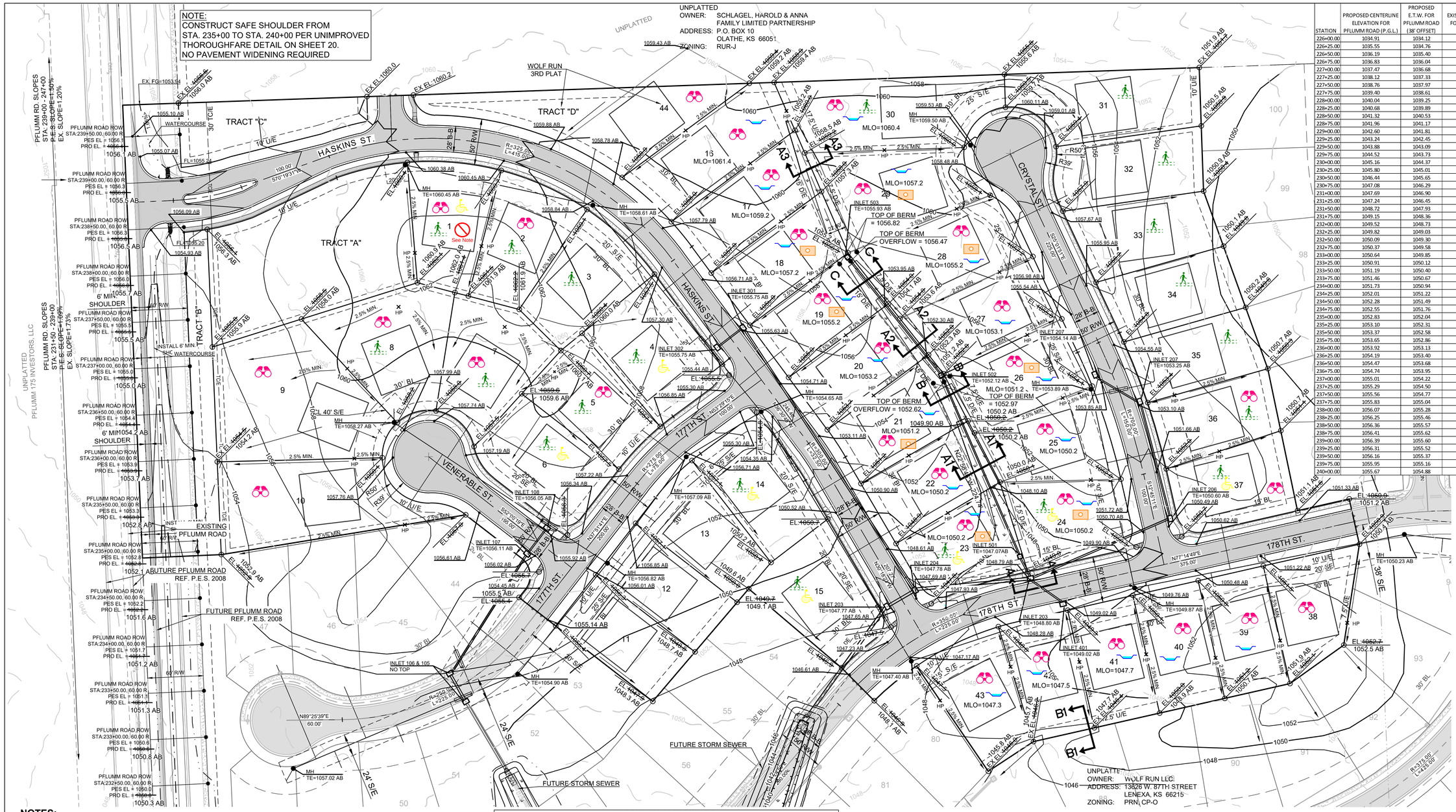
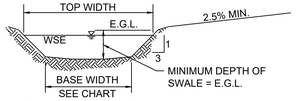
NOTE:
CONSTRUCT SAFE SHOULDER FROM STA. 235+00 TO STA. 240+00 PER UNIMPROVED THOROUGHFARE DETAIL ON SHEET 20.
NO PAVEMENT WIDENING REQUIRED



NOTES:

1. MLO = MINIMUM LOW OPENING FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 1 FOOT ABOVE ENERGY GRADE LINE (NORMAL DEPTH + VELOCITY HEAD + 1' FREEBOARD). APPROVED INDIVIDUAL LOT PLOT PLANS MAY ALTER THE CONSTRUCTED SWALES IN ELEVATION (CONTOUR) FROM THE GRADING PLAN AS LONG AS THE MLO IS ADJUSTED ACCORDING TO THE ABOVE CRITERIA.
2. EGL = ENERGY GRADE LINE (100 YR)
3. WSE = WATER SURFACE ELEVATION (100 YR)
4. ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION). ADJACENT LOW OPENINGS SHALL BE AT LEAST 1.0 FOOT ABOVE ENERGY GRADE LINE (EGL). MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
5. MLO'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM.



SEE CHART FOR SECTION PARAMETERS
N.T.S.

RUNOFF CALCULATIONS:
Q = K * C * I * A
K_{10} = 1.0 K_{100} = 1.25 C = 0.51 I = INTENSITY
DESIGN OVERFLOW=$Q_{OVERFLOW}$ = Q_{I100} - Q_{I10}

As-Built Grading Plan Holds Key

- Foundation Investigation Required
- Minimum Low Opening (MLO) Inspection Required
- Elevation Certificate Required
- Drainage Swale
- Public Sidewalk Required
- Public Sidewalk Ramp Required
- Engineering Plot Plan Approval Required
- Site Grading Inspection Required
- Storm Structure on Lot
- Not Released for Permits

WEIR CALCULATIONS (Q=CLH^(3/2))

SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	WEIR ELEVATION	WEIR CORFFICIENT	BASE WIDTH	HEAD REQ'D	WSE
A	0.77	5.07	2.89	2.18	1048.81	3.33	10	0.16	1048.97
B	0.59	3.89	2.21	1.67	1052.30	3.33	10	0.14	1052.44
C	0.40	2.63	1.50	1.13	1056.47	3.33	10	0.11	1056.58

100 YEAR OVERFLOW SWALES

SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	*DESIGN OVERFLOW (CFS)	BED SLOPE (%)	SIDE SLOPE (X:1)	BASE WIDTH (FT)	CROSS SECTION AREA (FT^2)	TOP WIDTH (FT)	NOMINAL DEPTH (FT.)	AVERAGE VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)
A1	0.40	2.63	1.50	1.13	2.50	3.00	10.00	0.80	10.47	0.08	1.41	0.03	0.11
A2	0.59	3.88	2.21	1.67	2.50	3.00	10.00	1.02	10.59	0.10	1.64	0.04	0.14
A3	0.77	5.07	2.89	2.18	2.50	3.00	10.00	1.20	10.70	0.12	1.82	0.05	0.17
B1	1.46	9.61	0.00	9.61	2.50	3.00	10.00	3.04	11.68	0.28	3.17	0.16	0.44

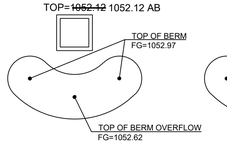
NOTE: Lot 1 will be on hold until all sidewalk ramps have been constructed and have approved as-built plans

NOTE: Building Permits will not be issued until applicant produces a Sanitary Sewer Connection Permit from Johnson County Wastewater

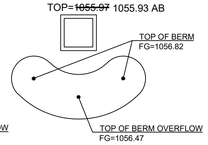
NOTE: Driveway inspections required on all Lots

NOTE: Prior to beginning the 2 year contractor maintenance period, as built grading plans of all sidewalk ramps will need to be submitted for review and approval by Engineering Services.

INLET 502
TOP= ~~1052.12~~ 1052.12 AB



INLET 503
TOP= ~~1055.97~~ 1055.93 AB



"AS-BUILT"
DATED: 01/28/2020 BY: RPM

0 50' 100'
SCALE: 1" = 50'

JOHNSON COUNTY VERTICAL CONTROL NETWORK BENCHMARK:

POINT NAME: BM-344
LOCATION: 183RD STREET AND PFLUMM ROAD
S-T-R: 34-14S-24E

MONUMENT: 2" DOME TOP ALUMINUM MONUMENT STAMPED "Jo. Co. Public Works BM-344"

DESCRIPTION: FROM 183RD ST. & PFLUMM RD. GO SOUTH APPROX. 0.30 MILE TO CONC. BRIDGE. THE MONUMENT IS ON TOP OF THE SOUTHEAST ABUTMENT.

ELEVATION: 988.91

Kansas811 Know what's below. Call 811 before you dig.

STATION	PROPOSED CENTERLINE ELEVATION FOR PFLUMM ROAD (P.G.L.)	PROPOSED E.T.W. FOR PFLUMM ROAD (38' OFFSET)	EXISTING E.T.W. FOR PFLUMM ROAD
226+00.00	1034.91	1034.12	1035.85
226+25.00	1035.55	1034.76	1036.55
226+50.00	1036.19	1035.40	1037.25
226+75.00	1036.83	1036.04	1037.80
227+00.00	1037.47	1036.68	1038.34
227+25.00	1038.12	1037.33	1038.95
227+50.00	1038.76	1037.97	1039.55
227+75.00	1039.40	1038.61	1040.17
228+00.00	1040.04	1039.25	1040.78
228+25.00	1040.68	1039.89	1041.42
228+50.00	1041.32	1040.53	1042.05
228+75.00	1041.96	1041.17	1042.60
229+00.00	1042.60	1041.81	1043.14
229+25.00	1043.24	1042.45	1043.71
229+50.00	1043.88	1043.09	1044.28
229+75.00	1044.52	1043.73	1044.81
230+00.00	1045.16	1044.37	1045.34
230+25.00	1045.80	1045.01	1045.90
230+50.00	1046.44	1045.65	1046.45
230+75.00	1047.08	1046.29	1046.97
231+00.00	1047.69	1046.90	1047.49
231+25.00	1047.24	1046.45	1047.92
231+50.00	1048.72	1047.93	1048.35
231+75.00	1049.15	1048.36	1048.64
232+00.00	1049.52	1048.73	1048.92
232+25.00	1049.82	1049.03	1049.17
232+50.00	1050.09	1049.30	1049.41
232+75.00	1050.37	1049.58	1049.61
233+00.00	1050.64	1049.85	1049.81
233+25.00	1050.91	1050.12	1049.93
233+50.00	1051.19	1050.40	1050.05
233+75.00	1051.46	1050.67	1050.26
234+00.00	1051.73	1050.94	1050.46
234+25.00	1052.01	1051.22	1050.68
234+50.00	1052.28	1051.49	1050.89
234+75.00	1052.55	1051.76	1051.11
235+00.00	1052.83	1052.04	1051.33
235+25.00	1053.10	1052.31	1051.54
235+50.00	1053.37	1052.58	1051.74
235+75.00	1053.65	1052.86	1052.04
236+00.00	1053.92	1053.13	1052.33
236+25.00	1054.19	1053.40	1052.62
236+50.00	1054.47	1053.68	1052.91
236+75.00	1054.74	1053.95	1053.14
237+00.00	1055.01	1054.22	1053.37
237+25.00	1055.29	1054.50	1053.72
237+50.00	1055.56	1054.77	1054.06
237+75.00	1055.83	1055.04	1054.36
238+00.00	1056.07	1055.28	1054.66
238+25.00	1056.25	1055.46	1054.81
238+50.00	1056.36	1055.57	1054.95
238+75.00	1056.41	1055.62	1055.03
239+00.00	1056.39	1055.60	1055.11
239+25.00	1056.31	1055.52	1055.10
239+50.00	1056.16	1055.37	1055.09
239+75.00	1055.95	1055.16	1054.95
240+00.00	1055.67	1054.88	1054.80

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(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Kansas State Certificates of Authority
#E-296 #LA-29 #LS-54

WOLF RUN - 1ST PLAT
STREET, STORM, & STREET LIGHTING PLANS
175TH STREET & PFLUMM ROAD
OVERLAND PARK, KANSAS

REVISION DATE	DESCRIPTION
12/03/2019	City Comments
01/21/2020	City Comments
03/18/2020	City Comments
04/03/2020	City Comments
12/14/2020	AS-BUILT GRADING PLAN
01/06/2021	CITY COMMENT AB GRADING
01/28/2021	AS-BUILT REVISIONS

DRAWN BY:	CHECKED BY:	DATE PREPARED:	PROJ. NUMBER:
RPM	MAB	09/12/2019	18-220

GRADING PLAN (AS-BUILT)

SHEET 3

I:\PROJECTS\2018\18-220\3.0 Design\3.0 DWG Plans\6.0 SSV\AS-BUILTS\18-220-SS-3-GRAD AB.dwg, 1/28/2021 1:47:48 PM, 1:1