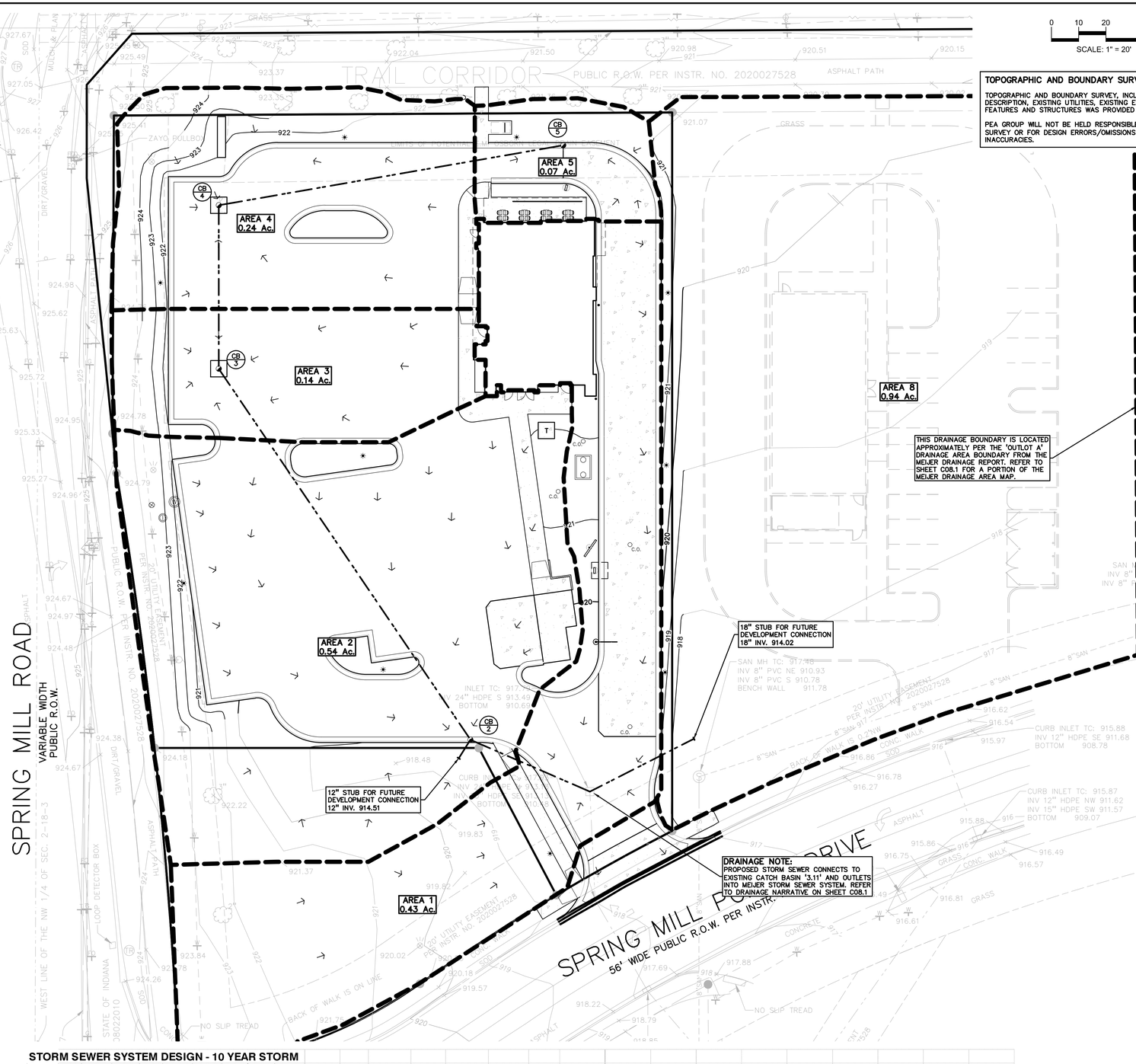

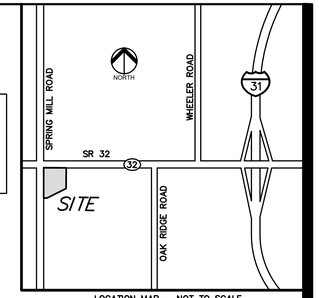

LOCATION MAP – NOT TO SCALE

LEGEND

EXISTING		PROPOSED
—OH—ELEC—W—	ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE	
—UG—CATV—TV—	UNDERGROUND CABLE TV, CATV PEDESTAL	
—UG—PHONE—T—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE	
—UG—ELEC—E—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE	
—GAS—	GAS MAIN, VALVE & GAS LINE MARKER	
—W—	WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE	
—S—	SANITARY SEWER, CLEANOUT & MANHOLE	
—ST—	STORM SEWER, CLEANOUT & MANHOLE	
	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN	
	WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF	
M T I	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
924.81	SPOT ELEVATION	671.21
	CONTOUR LINE	671
	FENCE	
	GUARD RAIL	
	STREET LIGHT	
	SIGN	
CONC.	CONCRETE	7" CONC TRASH ENCL. PAD / R.O.W. ONLY
ASPH.	ASPHALT	STD DUTY / HEAVY DUTY / DEEP STRENGTH
GRAVEL	GRAVEL SHOULDER	

REFERENCE DRAWINGS

OTHER — ALTA/NSPS LAND TITLE SURVEY FOR 4700 DUPONT ROAD, FORT WAYNE, INDIANA, AS PROVIDED BY MILLER LAND SURVEYING, INC. FORT WAYNE, INDIANA, #14052731

STORM SEWER SYSTEM DESIGN - 10 YEAR STORM

I = B/(T+D) ^ E B = 61.590 D = 8.4 E = 0.782
C = varies
T = 5 (min.) Pipe 'n' Value = 0.013

FROM STR	TO STR	AREA (A) (Acres)	COEF. C	A x C	TOTAL AREA (AxC)	TOTAL AREA (Acres)	TIME t (min.)	INT. I (in/hr)	FLOW Q (cfs)	PIPE CAP. (cfs)	PIPE DIA. (in.)	PIPE LENGTH (ft.)	PIPE SLOPE (%)	MIN HG PER "Q"	VEL. FULL (ft./sec)	TIME FLOW (min.)	H.G.L. ELEV. UP STREAM	H.G.L. ELEV. DOWN STREAM	RIM ELEV. UP STREAM	RIM ELEV. DOWN STREAM	INVERT ELEV. UP STREAM	INVERT ELEV. DOWN STREAM	PIPE COVER UP STREAM	PIPE COVER DOWN STREAM	HGL COVER UP STREAM	HGL COVER DOWN STREAM
5	4	0.07	0.70	0.05	0.05	0.07	5.00	8.09	0.37	3.56	12	128	1.00	0.01%	4.5	0.5	917.76	916.47	921.20	920.20	916.96	915.67	3.08	3.36	3.44	3.73
4	3	0.24	0.69	0.17	0.21	0.31	5.50	7.86	1.66	3.56	12	60	1.00	0.22%	4.5	0.2	916.37	915.77	920.20	920.30	915.57	914.97	3.46	4.16	3.83	4.53
3	2	0.14	0.79	0.11	0.32	0.45	5.70	7.78	2.52	3.54	15	165	0.30	0.15%	2.9	1.0	915.77	915.28	920.30	918.00	914.77	914.28	4.09	2.28	4.53	2.72
2	1	0.54	0.69	0.37	0.70	0.99	6.70	7.37	5.12	6.64	18	48	0.40	0.24%	3.8	0.2	915.28	915.09	918.00	917.79	914.08	913.89	2.21	2.19	2.72	2.70
1	EX	0.43	0.65	0.28	1.73	2.35	6.90	7.30	12.59	21.46	24	40	0.90	0.31%	6.8	0.1	915.09	914.73	917.79	918.10	913.49	913.13	2.05	2.72	2.70	3.37
8	1	0.94	0.80	0.75	0.75	0.94	7.30	7.15	5.39	5.75	18	43	0.30	0.26%	3.3	0.2	915.22	915.09	917.56	917.79	914.02	913.89	1.83	2.19	2.34	2.70
9	2	0.00	0.00	0.00	0.00	0.00	5.00	8.09	0.00	2.11	12	8	0.35	0.00%	2.7	0.0	915.31	915.28	918.42	918.00	914.51	914.48	2.74	2.35	3.11	2.72

FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN OR IN ZONE 'D' (NO SHADING) – AREAS IN WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE, PER FLOOD INSURANCE RATE MAP NUMBER 18057C0120G DATED NOVEMBER 19, 2014.

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

XREF: S:\PROJECTS\2020\2020-0251\DWG\TOPOBASE-200251.dwg
XREF: S:\PROJECTS\2020\2020-0251\DWG\CONSTRUCTION\CBASE-200251.dwg
XREF: S:\PROJECTS\2020\2020-0251\DWG\CONSTRUCTION\XTBLK-200251.dwg

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REVISIONS:

ISSUE DATE:

DEVELOPMENT PLAN	02-24-2021
DDP RESUBMITTAL	03-31-2021
DDP RESUBMITTAL	05-26-2021
STATE PERMIT	06-07-2021

DRAWN BY: LGD

PANDA PROJECT #: D8060
CIVIL PROJECT #: 2020-0251

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SR 32 & SPRING MILL ROAD (MEIJER #319)
WESTFIELD, IN, 46074

DRAINAGE PLAN

C08.0

SCALE: 1"=20'