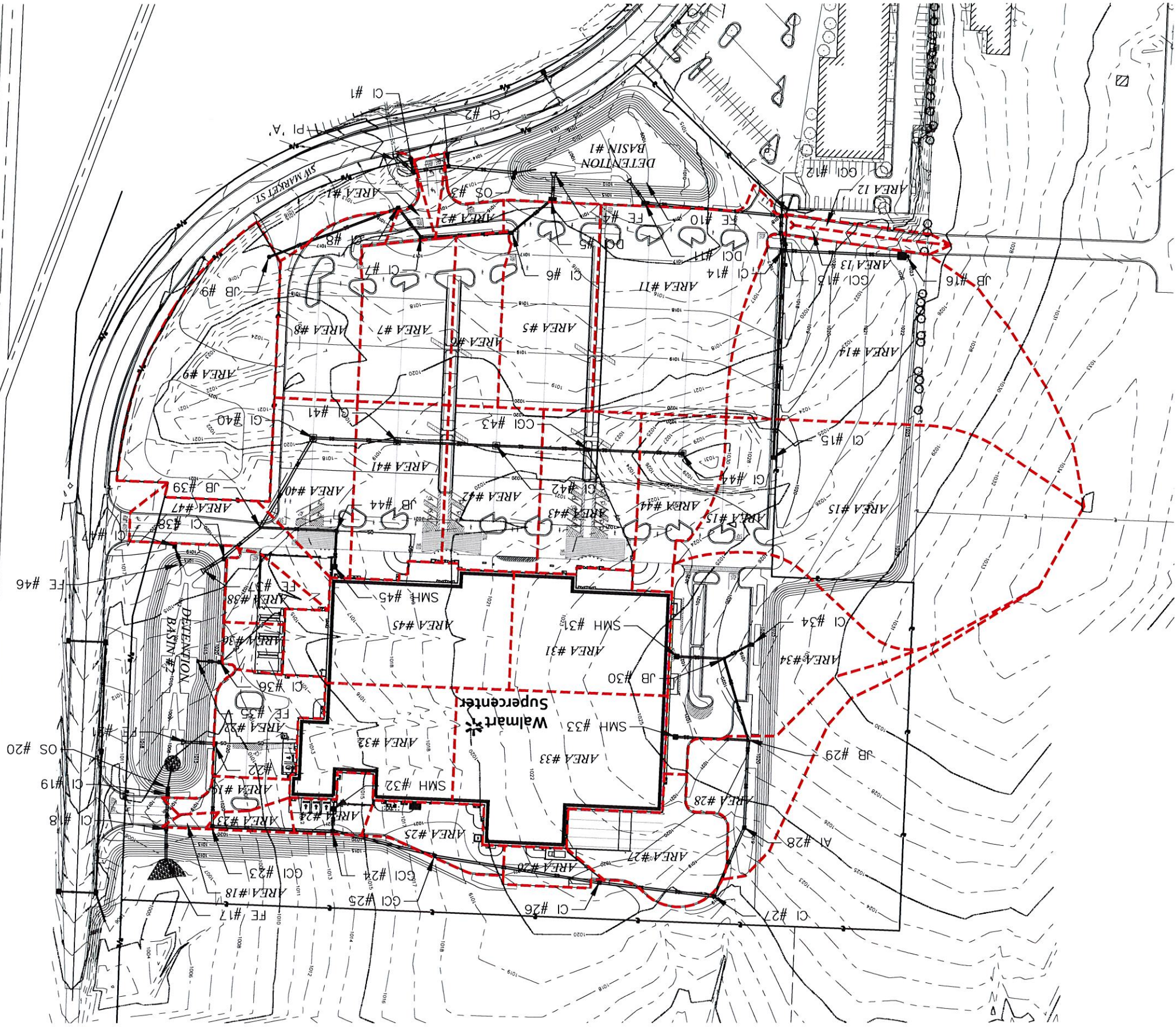
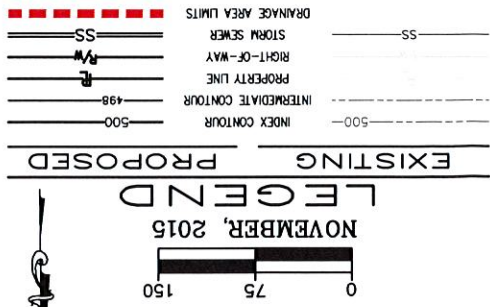


STORM SEWER DRAINAGE AREA MAP



HIGHWAY 291
(SOUTH BOUND) (VARIABLE WIDTH ROW)

HIGHWAY 291
(NORTH BOUND) (VARIABLE WIDTH ROW)



NOTE: SEE SHEET 2 OF 2 FOR STORM SEWER INLET FLOW RATES.

WAL-MART SUPER CENTER #4590-01
CITY OF LEE'S SUMMIT, MISSOURI
WAL-MART STORES, INC.

DATE		JUN 87		APR 88	
ADDITION					
CHK BY					
JMM					
APPR BY					
ERR					
DATE		NOV. 25, 2015		SCALE	
		1" = 150'		PROJ NO	
				12-5082	
				DWG. NO	

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (i.e. Trenching, Blasting, etc.)



OCHRAN

5304 E. Independence Dr.
Union, Missouri 63084

836-984-0340 (tel)
836-984-0340 (fax)
836-984-0312 (fax)
info@oceaneng.com

- Civil Engineering
- Land Surveying
- Architecture
- Site Development
- General Consulting
- Master Planning

STORM SEWER INLET FLOW RATES

Drainage Area	Pervious Area	Impervious Area	Total Area	C-Factor	Intensity	K-Factor	C*K - 100	Q10	Q100
1	0.02	0.04	0.06	0.70	5.70	8.08	1.25	0.24	0.42
2	0.03	0.07	0.1	0.72	5.70	8.08	1.25	0.41	0.73
5	0.08	0.77	0.85	0.84	5.70	8.08	1.25	4.09	6.87
6	0.04	0.33	0.37	0.84	5.70	8.08	1.25	1.76	2.99
7	0.05	0.6	0.65	0.85	5.70	8.08	1.25	3.16	5.25
8	0.11	0.52	0.63	0.80	5.70	8.08	1.25	2.86	5.06
9	1.34	0	1.34	0.30	5.70	8.08	1.0	2.29	4.06
11	0.05	1.31	1.36	0.88	5.70	8.08	1.25	6.81	10.99
12	0	0.07	0.07	0.90	5.70	8.08	1.25	0.36	0.57
13	0	0.07	0.07	0.90	5.70	8.08	1.25	0.36	0.57
14	2.96	0.45	3.41	0.38	5.70	8.08	1.25	7.37	13.06
15	2.2	0.33	2.53	0.38	5.70	8.08	1.25	5.45	9.67
16	Flow rate based from storm water report for Hollywood Drive.								
18	0	0.03	0.03	0.90	5.70	8.08	1.0	0.15	0.24
19	0.01	0.12	0.13	0.85	5.70	8.08	1.25	0.63	1.05
22	0.01	0.4	0.41	0.89	5.70	8.08	1.25	2.07	3.31
23	0	0.08	0.16	0.90	5.70	8.08	1.25	0.41	0.65
24	0	0.16	0.16	0.90	5.70	8.08	1.25	0.82	1.29
25	0	0.28	0.28	0.90	5.70	8.08	1.25	1.44	2.26
26	0	0.14	0.14	0.90	5.70	8.08	1.25	0.72	1.13
27	0	0.54	0.54	0.90	5.70	8.08	1.25	2.77	4.36
28	0.67	0	0	0.67	5.70	8.08	1.25	1.15	2.03
31	0	0.53	0.53	0.90	5.70	8.08	1.25	2.72	4.28
32	0	0.99	0.99	0.90	5.70	8.08	1.25	5.08	8.00
33	0	0.87	0.87	0.90	5.70	8.08	1.25	4.46	7.03
34	0.72	0.58	1.3	0.57	5.70	8.08	1.25	4.21	7.45
36	0	0.24	0.24	0.90	5.70	8.08	1.25	1.23	1.94
38	0	0.19	0.19	0.90	5.70	8.08	1.25	0.97	1.54
40	0.05	0.5	0.55	0.85	5.70	8.08	1.25	2.65	4.44
41	0.04	0.62	0.66	0.86	5.70	8.08	1.25	3.25	5.33
42	0.04	0.63	0.67	0.86	5.70	8.08	1.25	3.30	5.41
43	0.03	0.63	0.66	0.87	5.70	8.08	1.25	3.28	5.33
44	0.02	0.48	0.5	0.88	5.70	8.08	1.25	2.50	4.04
46	0	1.2	1.2	0.90	5.70	8.08	1.25	6.16	9.70
48	0.1	0.28	0.38	0.74	5.70	8.08	1.0	1.61	2.85

STORM SEWER INLET FLOW RATES

DATE: NOV. 25, 2015

SCALE: 1" = 150'

PROJECT NO: 12-5082

DWG. NO: 2 OF 2

DATE: JMM

DATE: APR

DATE: MAY

DATE: JUN

DATE: JUL

DATE: AUG

DATE: SEP

DATE: OCT

DATE: NOV

DATE: DEC

WALMART SUPER CENTER #4590-01

CITY OF LEE'S SUMMIT, MISSOURI

WAL-MART STORES, INC.

Three working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RIE for utility location information.

All OSHA rules & regulations established for the type of excavation shall be followed. These plans shall be strictly followed (ie. Trenching, Boring, etc.)

COCHRAN

530A E. Independence Dr.
Union, Missouri 63084

636-584-0540 (tel.)
636-584-0512 (fax)
mol@cochrane.com

Civil Engineering

Land Surveying

Architecture

Site Development

General Consulting

Master Planning