

LEGEND

DESCRIPTION

A	A = BASIN DESIGNATION
B	B = AREA IN ACRES
C	C = RUNOFF COEFFICIENT

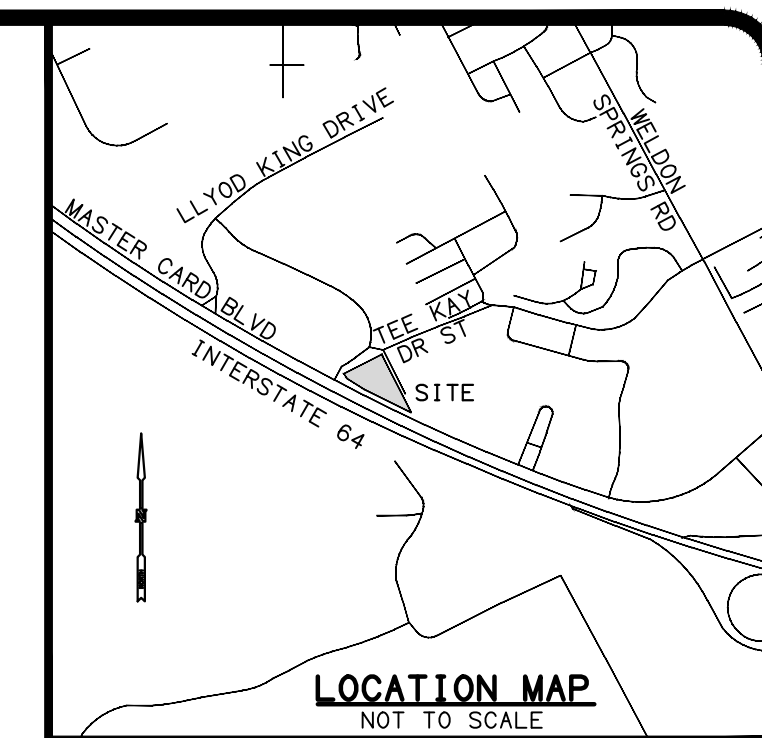
■■■■■ DRAINAGE BASIN BOUNDARY

STORM DRAIN STRUCTURE TABLE

STR. #	TYPE	RM/THROAT	INV. IN	INV. OUT
A-1	WATER QUALITY DEVICE	57450	57045 (A-2) 57045 (B)	57045 (EX. 1)
A-2	COMBINATION INLET	57800	5798 (A-3)	5778 (A-1)
A-3	COMBINATION INLET	57900	57246 (A-4)	57226 (A-2)
A-4	MANHOLE	57985	5739 (A-5)	57299 (A-3)
A-5	AREA INLET	57900	ROOF DRAINS 57420	57400 (A-1)
B-1	COMBINATION INLET	57850	57850	57250 (A-1)
EX. 1	EXISTING AREA INLET	57488	57034 (A-1)	57014 (EX. 1)

STORM PIPE TABLE

STORM/RAIN PIPE	SIZE	LENGTH	SLOPE	INV. IN	INV. OUT
A-1 - EX. 1	24"	14'	0.79%	57045'	57034'
A-2 - A-1	8"	189'	0.70%	5778'	57045'
A-3 - A-2	8"	40'	0.70%	57226'	5798'
A-4 - A-3	8"	76'	0.70%	57299'	57246'
A-5 - A-4	8"	74'	1.09%	57400'	5739'
B-1 - A-1	24"	109'	1.87%	57250'	57045'



INLET DRAINAGE AREAS

INLET	AREA (AC.)	TC (MIN.)	IMPERVIOUS COVERAGE	IMPERVIOUS RUNOFF COEFFICIENT	PERVIOUS COVERAGE	PERVIOUS RUNOFF COEFFICIENT	WEIGHTED RUNOFF COEFFICIENT	"n" 25	"n" 100	Q25 (CFS)	Q100 (CFS)	INLET DEPTH Q25	INLET DEPTH Q100
EX-1	0.46	5	0.45	0.95	0.01	0.30	0.94	8.96	11.40	3.86	4.91	0.27	0.29
A-2	0.10	5	0.10	0.95	0.00	0.30	0.95	8.96	11.40	0.85	1.08	0.17	0.18
A-3	0.13	5	0.13	0.95	0.00	0.30	0.95	8.96	11.40	1.11	1.41	0.18	0.20
A-5	0.52	5	0.33	0.95	0.19	0.30	0.71	8.96	11.40	3.32	4.22	0.26	0.28
B-1	1.21	5	0.47	0.95	0.74	0.30	0.55	8.96	11.40	5.99	7.62	0.31	0.34
WATER QUALITY DEVICE TOTAL	1.96	5	1.03	0.95	0.93	0.30	0.64	8.96	11.40	11.27	14.34	---	---

RUNOFF COEFFICIENTS USED TO CALCULATE THE WEIGHTED RUNOFF COEFFICIENT ARE LISTED BELOW

- LAWNS/GRASS: 0.30
- ROOFS/PAVEMENT: 0.95

RAINFALL DATA FROM NOAA ATLAS 14, VOLUME 2, VERSION 3, O'FALLON, MISSOURI

RAINFALL DISTRIBUTION FOR O'FALLON, MISSOURI

STORM EVENT	1-YR	2-YR	10-YR	25-YR	100-YR
*RAINFALL (INCHES/HR)	4.46	5.20	7.46	8.96	11.40

NOTE:
WATER QUALITY FOR THE 1/4" FIRST FLUSH AND 80% TSS ARE MITIGATED BY A MECHANICAL DEVICE

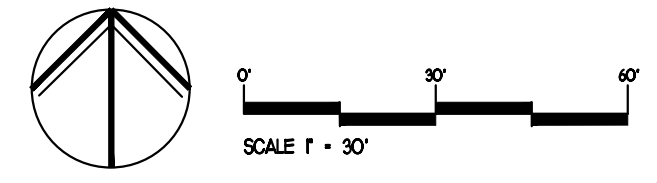
AREAS A-2, A-3, A-5 AND B-1 TREATED BY A CONTECH CASCADE CS-5 SEPARATOR - SEE DETAILS

PROPOSED STORMWATER MANAGEMENT:

STORMWATER QUANTITY DETENTION FOR THIS PROPOSED DEVELOPMENT WILL BE HANDLED VIA THE EXISTING PERSIMMON POINTE REGIONAL DETENTION BASIN.

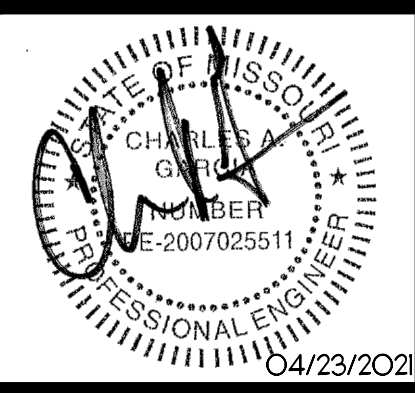
AN ONSITE PROPRIETARY STORMWATER DEVICE WILL BE INSTALLED TO TREAT WATER QUALITY

STORMWATER INLET AREA MAP



REVISIONS BY

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CHECKED: TMB
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SCALE:

DRAWING: 14