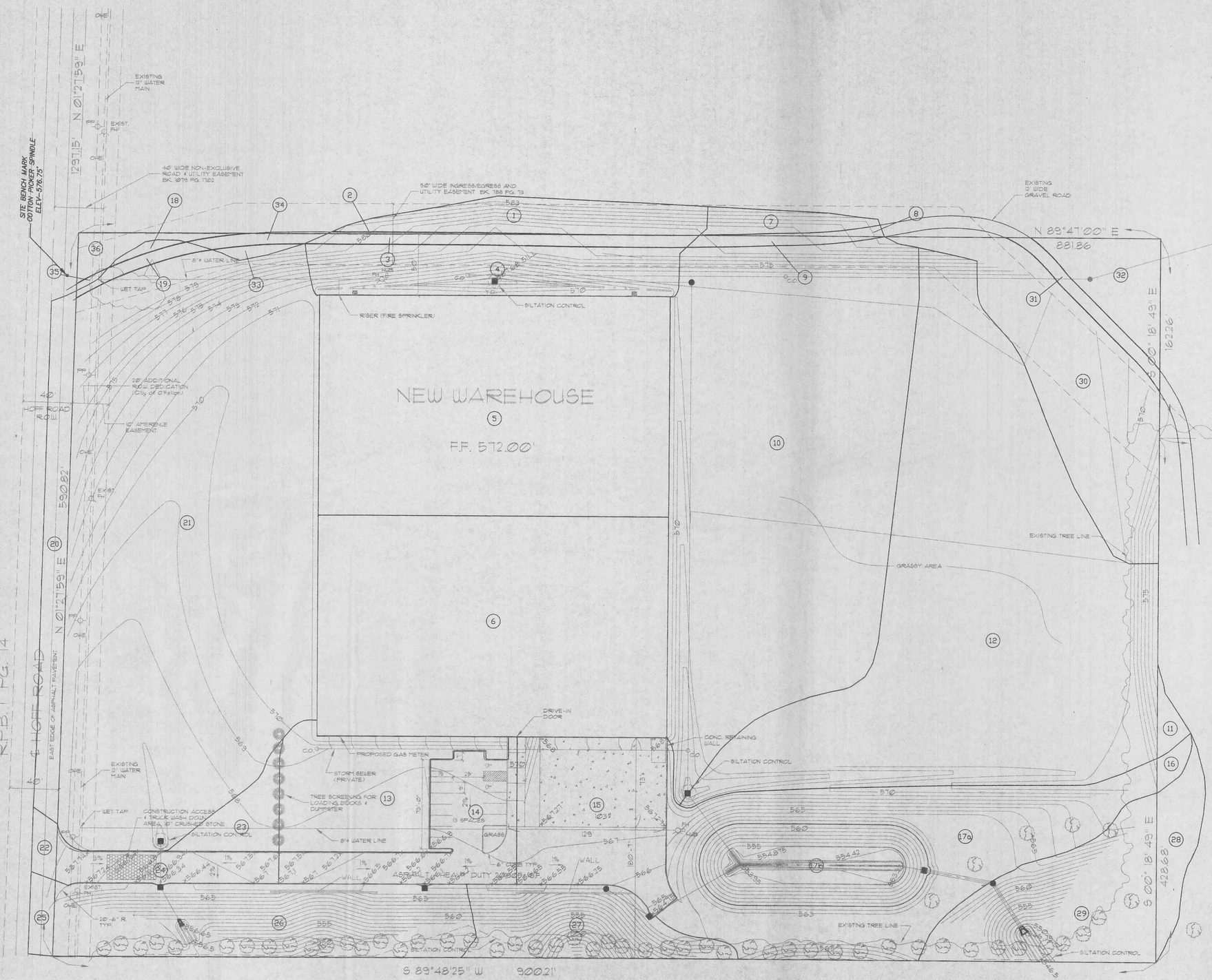

15 YR., 20 MIN. STORM PHASE 1

SYSTEM	DRAINAGE AREA NUMBER	ADDED DRAINAGE AREA (ACRES)	RUNOFF FACTOR (CFS/AC)	OFFSITE ADDED FLOW (CFS)	ONSITE ADDED FLOW (CFS)	INCOMING FLOW (CFS)	OUTGOING FLOW (CFS)
(FLOW INTO DETENTION BASIN)							
5	1	0.1592	1.87	0.30			
5	2	0.0060	3.85	0.02			
5	3	0.0640	3.85		0.25		
5	4	0.2845	1.87		0.53		
5	5	1.1818	3.85		4.55		5.65
4	6	1.1818	3.85		4.55	5.65	10.20
3	7	0.0545	1.87	0.10			
3	8	0.0106	3.85	0.04			
3	9	0.0248	3.85		0.10		
3	10	1.6615	1.87		3.11		
3	11	0.0215	1.87	0.04			
3	12	1.7872	1.87		3.34	10.20	16.93
2	13	0.2976	1.87		0.56		
2	14	0.2457	3.85		0.95		1.50
1	15	0.3524	3.85		1.36	1.50	2.86
6	16	0.0165	1.87	0.03			
6	17a	0.6598	1.87		1.23		
6	17b	0.2658	3.85		1.02	19.79	22.07
FLOW INTO DETENTION BASIN SUM		8.2753	2.6675	0.53	21.54		22.07
(FLOW WEST SIDE OFFSITE)							
8	18	0.0081	1.87		0.02		
8	19	0.0215	3.85		0.08		
8	20	0.1939	3.85	0.75			
8	21	2.0946	1.87		3.92		4.76
7	22	0.0228	3.85	0.09			
7	23	0.0810	1.87		0.15		
7	24	0.1119	3.85		0.43	4.76	5.43
9a	25	0.0296	3.85	0.11			
9a	26	0.4696	1.87		0.88	5.43	6.42
9b	27	0.2300	1.87		0.43		0.43
(FLOW WEST SIDE OFFSITE) SUM		3.2630	2.1004	0.95	5.91		6.85
(REMAINING FLOW OFFSITE)							
10	28	0.0925	1.87	0.17			
10	29	0.3598	1.87		0.67		0.85
11	30	0.4616	1.87		0.86		
11	31	0.0375	3.85		0.14		
11	32	0.1269	1.87		0.24		1.25
12	33	0.0116	1.87		0.02		
12	34	0.0204	3.85		0.08		
12	35	0.0029	3.85		0.01		
12	36	0.0397	1.87		0.07		0.18
(REMAINING FLOW OFFSITE) SUM		1.1529	1.9745	0.17	2.10		2.28
TOTAL DRAINAGE AREA 12.6912			2.4587	1.66	29.55		31.20

TOTAL SITE DISCHARGE	31.20 cfs
OFFSITE RUNNOFF	-1.66 cfs
ONSITE RUNOFF	29.55 cfs
PREDEVELOPED SITE RUNOFF	-22.94 cfs
DIFFERENTIAL RUNOFF(Q)	6.61 cfs

REQUIRED STORAGE Q x 20min. x 60min./hr.= 7930 cu. ft.

OFFSITE RUNNOFF	1.66 cfs
PREDEVELOPED SITE RUNOFF	22.94 cfs
ALLOWABLE SITE DICHARGE	24.60 cfs
SITE DISCHARGE W/O DETENTION	-9.13 cfs
ALLOWABLE DISCHARGE FROM DETENTION BASIN	15.47 cfs

NO.	DESCRIPTION	DATE
1	Revisions per City of O'Fallon letter 01/31/02	02/07/02

REVISIONS

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
RONALD F. KALUPA
NUMBER E-11759
2/12/02

STRUCTURAL SYSTEMS, INC.

DESIGN CONTRACTORS

(314) 966 - 5920
816 South Kirkwood Road
St. Louis, Missouri 63122

New Construction for:

TRUE & TRUE

950 Hoff Road
O'Fallon, MO 63366
(636) 272-7100

WATERSHED PLAN and TABLE - POST DEVELOPMENT

DRAWN:	L.W.L. (R & J)
CHECKED:	R.R.R.
SCALE:	1"=40'-0"
ISSUE DATE:	10/31/01
S.S.I. JOB NUMBER:	01-005

DRAWING NUMBER

C8 of 11

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C:\Program Files\AutoCAD R14\Dwgs\True Fitness O'Fallon\Civil\01005-C8.dwg Thu Feb 07 15:53:18 2002