Brookview

= 26,640 c.f.

TEMPORARY SEDIMENT BASIN AREA

SEDIMENT BASIN— NORMAL POOL

3'WIDE X 6' LONG 18"

DESIGNATION 7 STONE;

THICK MSD

STONE TO BE UNDERLAIN WITH GEOTEXTILE

BLOCK (TYP)

SEDIMENT BASIN CALCULATIONS **SEDIMENT BASIN #1**

SEDIMENT BASIN CALCULATIONS

Drainage Area Onsite	=	11.93 ac.
Drainage Area Offsite		3.13 ac.
Drainage Area Total		15.06 c.f.
Disturbed Area (Tree Clearance)		7.40 ac.
Dittabed filed (free Cicatance)		7.40 ac.

Volume Required = (Disturbed Area) X (3,600 c.f./ac.)

Sediment Basin #3

Elevation	Area	A1+A2+sqr(A1xA2)	Volume	Volume Sum
	(s.f.)	(s.f.)	(c.f.)	(c.f.)
516.00	146	0	0	0
518.00	2,733	3,511	2,340	2,340
520.00	6,762	13,794	9,195	11,535
522.00	11,857	27,573	18,380	29,916
522.50	12,731	36,874	6,145	36,061
524.00	17,074	44,548	22,272	58,333

Required Volume Achieved at Elevation:

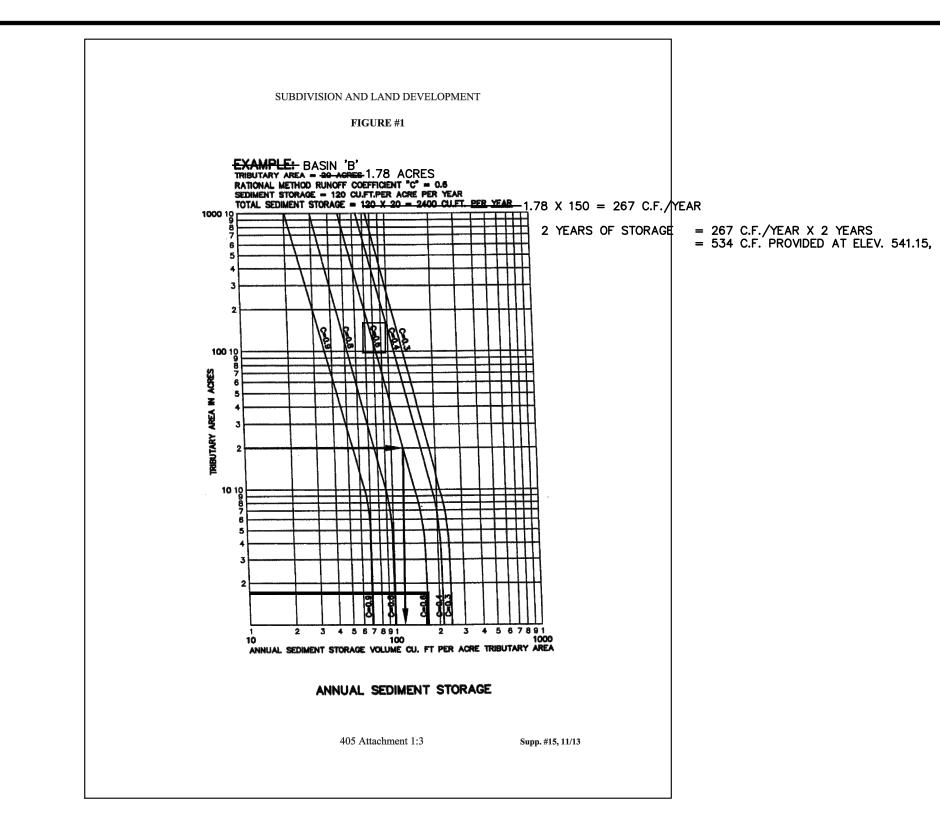
TOP OF STANDPIPE= 521.7 FL OF STANDPIPE= 514.3 DOWNSTREAM FL OF CULVERT= 514.0

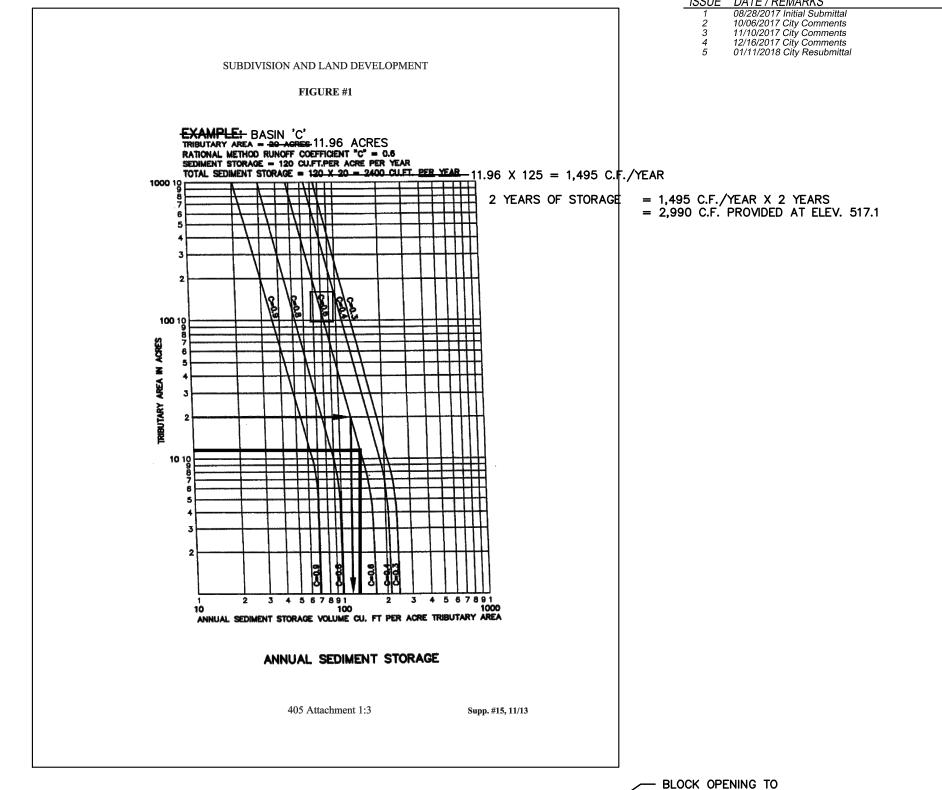
4" PVC STANDPIPE, CREST TRASH RACK~ ELEVATION = 543.7. STANDPIPE TO BE WRAPPED WITH GEOTEXTILE TEMPORARY CMP PERFORATED RISER WRAPPED FABRIC. STANDPIPE TO BE WITH GEOTEXTILE FABRIC — IS 75% ESTABLISHED. TOP = SET 12" OR MORE BELOW SEDIMENT BASIN CLEAN FILL MATERIAL "H" (10 FT. MAX.) 3: 14 FT. MAX.) BERM ELEVATION

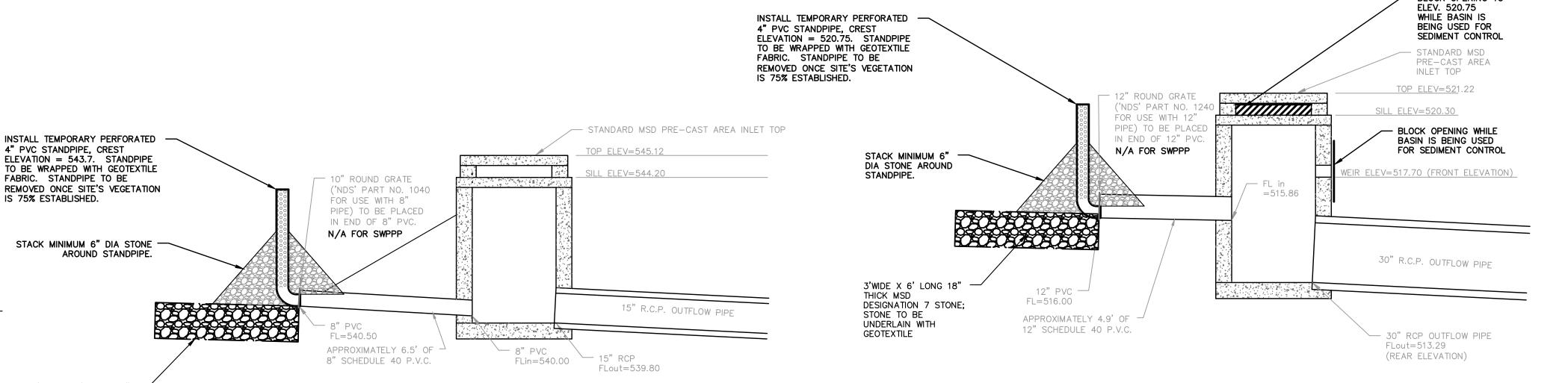
TEMPORARY SEDIMENT BASIN FOR "INITIAL SWPPP" CONDITIONS N.T.S.

TEMPORARY CMP @ MINIMUM 1% SLOPE

BASIN	STANDPIPE	TOP OF STANDPIPE	FLOWLINE OF STANDPIPE	CULVERT	CULVERT LENGTH	FLOWLINE OF CULVERT
1	24" CMP	521.7	514.7	24" CMP	62 LF	514.0







OUTFALL STRUCTURE #202 (BASIN C)
SIDE VIEW MODIFIED FOR SEDIMENT CONTROL

DETENTION RUN WITH 2 YEARS OF SEDIMENT STORAGE IN BASINS

ROUTED Q'S							
	2 Year Q Outflow	15 Year Q Outflow	25 Year Q Outflow	100 Year Q Outflow			
Basin/Drainage Area	(cfs)	(cfs)	(cfs)	(cfs)			
Α	5.15	8.34	10.30	13.18			
В	0.55	0.89	1.09	1.4			
С	5.4	7.02	11.71	25.42			
D	0.65	1.06	1.31	1.67			
E	5.58	9.07	11.20	14.31			
F	0.63	1.02	1.25	1.60			
G	3.14	5.11	6.31	8.05			
TOTAL	21.10	32.50	43.17	65.63			
<u>.</u>	is less than	is less than	is less than	is less than			
EXISTING Q=	28.83	46.88	57.91	73.96			

OUTFALL STRUCTURE #300 (BASIN B)

SIDE VIEW MODIFIED FOR SEDIMENT CONTROL

HIGHWATER ELEVATIONS & FREEBOARD

	Top of Berm Elevation	2 Year Storm HW ELEV.	2 Year Storm	15 Year Storm HW ELEV.	15 Year Storm	25 Year Storm HW ELEV.	25 Year Storm	100 Year Storm HW ELEV.	100 Year Storm
Basin	(Minimum)	(from PondPack)	Freeboard	(from PondPack)	Freeboard	(from PondPack)	Freeboard	(from PondPack)	Freeboard
В	546.00	544.23	1.77	544.25	1.75	544.26	1.74	544.27	1.73
С	522.50	519.22	3.28	520.08	2.42	520.52	1.98	520.9	1.60

Brookview

Date: <u>01/11/18</u> SEAN ACKLEY LICENSE # PE-2009018679 Civil Engineer

CALCULATIONS

P+Z No. 17-005894 **City No.** 17-008288 Date: 01/11/18

Job No. 17-02-041

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