




LEGEND:




PROJECT LIMITS




APPROXIMATE STREAM CHANNEL LIMITS




EXISTING DRAINAGE AREA




TIME OF CONCENTRATION LINE



EXISTING TOPOGRAPHY



EXISTING TREE LINE



EXISTING CULVERT

EXISTING PROJECT AREA DATA:

PROJECT AREA

6.7 ACRES ±

OPEN SPACE (PROJECT LIMITS)

5.8 ACRES ±

FORESTED (PROJECT LIMITS)

0.9 ACRES ±

CURVE NUMBER

78

DRAINAGE AREA DATA:

DRAINAGE AREA

5.7 ACRES ±

OPEN SPACE (IN DA)

5.0 ACRES ±

FORESTED (IN DA)

0.7 ACRES ±

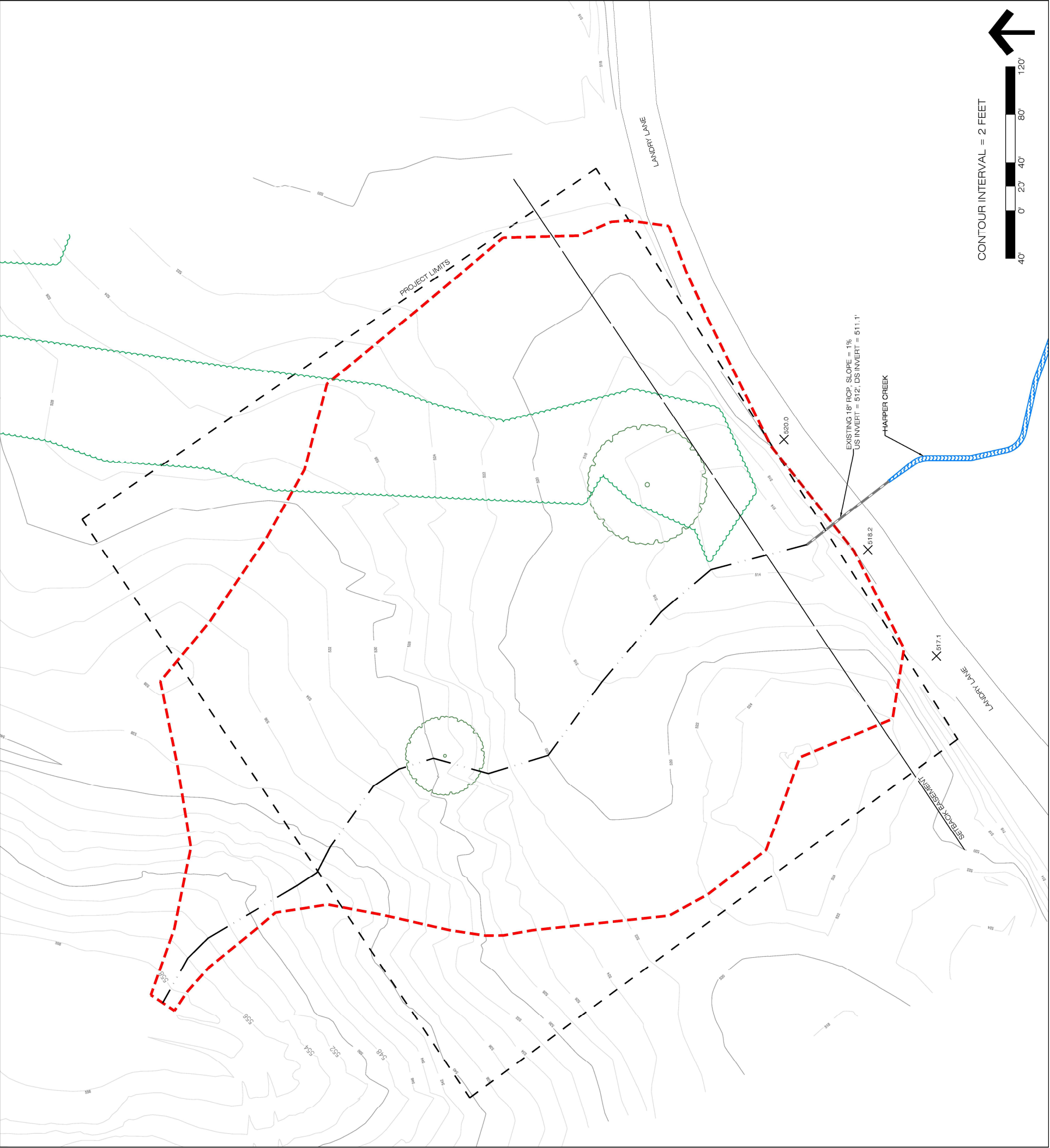
TIME OF CONCENTRATION

22 MINUTES ±

CURVE NUMBER

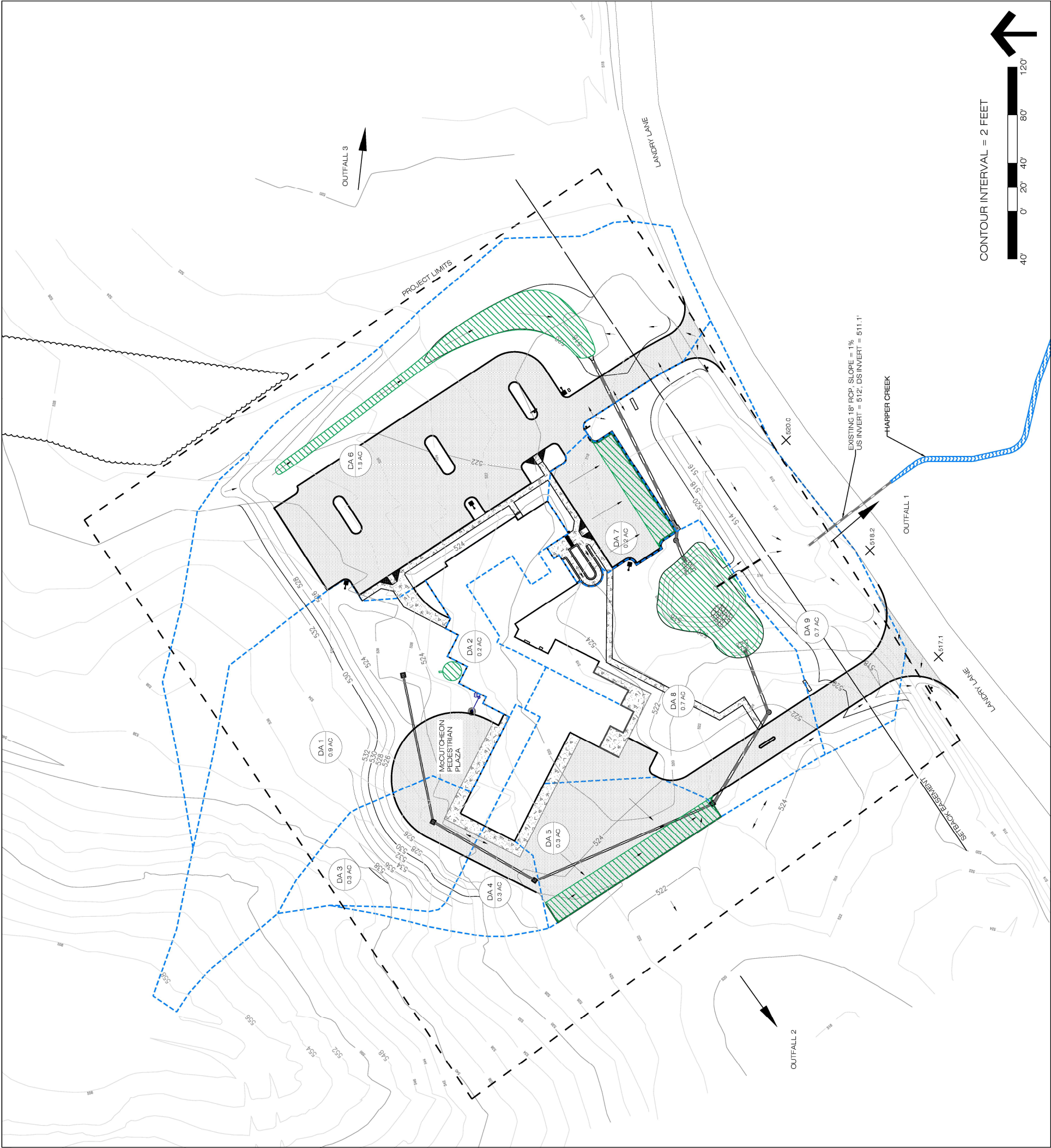
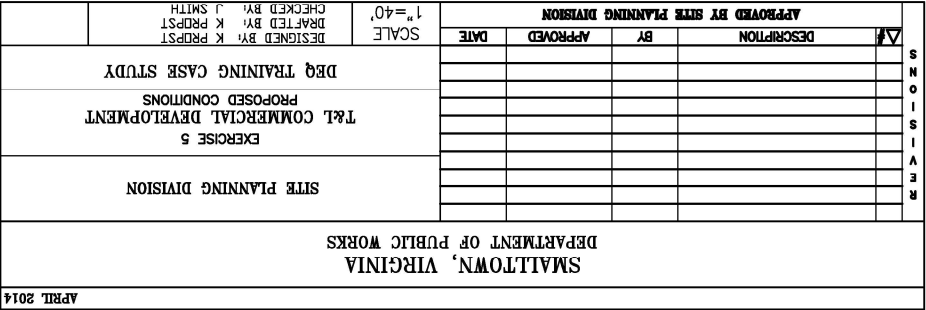
79

"C" SOILS THROUGHOUT



SMALLTOWN, VIRGINIA DEPARTMENT OF PUBLIC WORKS				
S M A L L T O W N	DATE	APPROVED	BY	DESCRIPTION
SITE PLANNING DIVISION				
T&L COMMERCIAL DEVELOPMENT EXISTING CONDITIONS				
DRG TRAINING CASE STUDY				
SCALE 1"=40'				
DESIGNED BY: K. PROBST DRAFTED BY: J. SMITH CHECKED BY: J. SMITH				
APRIL 2014				





LEGEND:	
	PROJECT LIMITS
	APPROXIMATE STREAM CHANNEL LIMITS
	PROPOSED DRAINAGE AREA
	EXISTING TOPOGRAPHY
	PROPOSED GRADING
	EXISTING CULVERT
	PROPOSED SITE BMP
	PROPOSED PARKING LOT
	PROPOSED SIDEWALK
	PROPOSED TREE LINE

PROPOSED PROJECT AREA DATA:	
PROJECT AREA	6.7 ACRES ±
OPEN SPACE (PROJECT LIMITS)	3.50 ACRES ±
MANAGED TURF (PROJECT LIMITS)	1.25 ACRES ±
IMPERVIOUS (PROJECT LIMITS)	1.95 ACRES ±
CURVE NUMBER	79

PROPOSED SITE DATA						
DA	AREA (AC)	TREAT D IN DA?	TREATMENT	IMPERVIOUS AREA (AC)	OPEN SPACE (AC)	MANAGED TURF (AC)
1	0.90	NO	-	0.10	0.75	0.05
2	0.20	YES	CISTERN	0.20	0.00	0.00
3	0.30	NO	-	0.1	0.20	0.00
4	0.27	NO	-	0.15	0.07	0.05
5	0.30	YES	PERM. PAVEMENT	0.3	0.00	0.00
6	1.80	YES	DRY SWALE	0.65	0.65	0.50
7	0.20	YES	PERM. PAVEMENT	0.2	0.00	0.00
8	0.70	YES*	EXTENDED DETENTION	0.2	0.00	0.50
9	0.66	NO	-	0.05	0.46	0.15
TOTAL	5.3	-	-	1.95	2.13	1.25

NOTE: ASSUME 5 MINUTES FOR TIME OF CONCENTRATION FOR EACH "W" ERSED. ASSUME ALL SOILS ARE "C" BICRETION IN DA 8 CAPT JRES DRAINAGE FROM DA'S 1-7 AS WELL, THESE ADDITIONAL AREAS ARE NOT INCLUDED IN THE DA 8 AREA.