STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

VAOT Metric

DRAINAGE STRUCTURES

STATION km + m	STATION km + m	POS.	ASKEW	INLET/OUTLET TYPE INLET	INLET/OUTLET TYPE OUTLET	DITCH IN	DITCH OUT	PIPE ARCH SPAN mm	PIPE ARCH RISE mm	PIPE ARCH L m	PIPE D mm	PIPE L m	ALLOWABLE OPTIONS CAAP mm	ALLOWABLE OPTIONS RCP CL	ALLOWABLE OPTIONS CSP mm	ALLOWABLE OPTIONS CPEP SL mm	ALLOWABLE OPTIONS PCCSP mm	PIPE ELBOW NO. DEG	ES EA	CB EA	PERCOLT	DEPTH m	CONC CL B m^3	REINF STEEL kg	GRATE TYPE	CHAN ELEV EA	CRM m^3	TRENCH EXCAVATION EARTH m^3	TRENCH EXCAVATION ROCK m^3	COMM EXC m^3	UNC CHAN EXC m^3	STRUCT EXCAV m^3	GRAN BKFILL STRUCT m^3	BORR m^3	EROS MATT m^2	STONE m^3	STONE TYPE	MARKER POSTS LT ea	MARKER POSTS RT ea	REMARKS
																																	2						DRAINAGE SWALE (TRENCH EXCAVATION)
0+975.0	1+000.0	LT-LT																															2						DRAINAGE SWALE (TRENCH EXCAVATION)
1+000.0	1+034.0	LT-LT																																					MODIFY EXISTING D.I. (MODIFIED)
0+975.0		LT																																					
0+975.0	1+000.0	LT-LT									450	24.5				X				1				B															450 mm CARRIER PIPE
1+000.0		LT																																					PRECAST CONCRETE CATCH BASIN (CB#1)
1+000.0	1+065.0	LT-LT									450	64.6				X				1				B															450 mm CARRIER PIPE
1+065.0		LT																																					PRECAST CONCRETE CATCH BASIN (CB#1A)
1+065.0	1+086.0	LT-LT									450	20.3				X				1				B															450 mm CARRIER PIPE
1+053.0		LT																																					REMOVE EXISTING CULVERT (SUBSIDIARY TO 601.0915 MOD.)
1+086.0		LT																																					PRECAST CONCRETE CATCH BASIN (CB#2)
1+086.0	1+140	LT-LT									450	54.0				X				1				B															450 mm CARRIER PIPE
1+076.0		LT																										2.4											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
1+140.0		LT																		1				E															PRECAST CONCRETE CATCH BASIN (CB#3)
1+150.0		LT																		1				B															PRECAST CONCRETE CATCH BASIN (CB#4)
1+140.0	1+150.0	LT-LT									450	9.6				X																							450 mm CARRIER PIPE
1+150.0	1+225.0	LT-LT									450	75.8				X				1				B															450 mm CARRIER PIPE
1+225.0		LT																																					PRECAST CONCRETE CATCH BASIN (CB#5)
1+225.0	1+260.0	LT-LT									450	40.5				X				1				B															450 mm CARRIER PIPE
1+260.0		LT																		1				E															PRECAST CONCRETE CATCH BASIN (CB#6)
2+034.0		RT																																					PRECAST CONCRETE CATCH BASIN (CB#7)
2+034.0	2+060.0	RT-RT									450	25.3				X																							450 mm CARRIER PIPE
1+310.8	1+319.8	LT-RT	12°		ES						600	44.0				X				1																7.0	II			600 mm OPTION PIPE WITH END SECTION & STONE OUTFALL
1+271.0	1+310.8	RT-RT																										45.0											DRAINAGE SWALE (TRENCH EXCAVATION)
1+215.0																												1.0											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
1+255.0																												10.0											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
1+302.0																												6.4											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
1+343.9	1+365.0	LT-LT			ES						450	22.0				X				1																7.0	II			450 mm CARRIER PIPE WITH END SECTION
1+365.0		LT																		1				B															PRECAST CONCRETE CATCH BASIN (CB #11)
1+365.0	1+420.0	LT-LT									450	54.7				X				1				B															450 mm CARRIER PIPE
1+420.0		LT																		1				B															PRECAST CONCRETE CATCH BASIN (CB #12)
1+420.0	1+445.0	LT-LT									450	24.8				X				1				B															450 mm CARRIER PIPE
1+445.0		LT																		1				B															PRECAST CONCRETE CATCH BASIN (CB #13)
1+445.0	1+491.4	LT-LT		ES							450	45.7				X				1																7.0	II			450 mm CARRIER PIPE WITH END SECTION
1+400.0		LT-LT																										9.0											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
1+433.0		LT-LT																																					REMOVE EXISTING CULVERT (COMMON EXCAVATION)
1+467.0		LT-LT																										30.4											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
2+060.0		RT																		1				E															PRECAST CONCRETE CATCH BASIN (#8)
2+060.0	1+335.7	RT-LT									450	40.0				X																							450 mm CARRIER PIPE
2+060.0	2+120.0	RT-RT									450	59.0				X																							450 mm CARRIER PIPE
2+120.0		RT																		1				E															PRECAST CONCRETE CATCH BASIN (#9)
2+120.0	2+145.0	LT-RT									450	28.0				X																							450 mm CARRIER PIPE
2+145.0		LT																		1				B															PRECAST CONCRETE CATCH BASIN (#10)
2+136.0		LT-LT																										15.2											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
1+335.7		LT																																					STORM MANHOLE #1
1+335.7	1+338.4	LT-LT			ES						450	8.0				X				1																7.0	II			450 mm CARRIER PIPE WITH END SECTION
																																				27	II			STORMWATER BASIN
2+178		LT-LT																										(2)											REMOVE EXISTING CULVERT (TRENCH EXCAVATION)
TOTALS																				14								119.4								48	II			
											450	596.8								3																				
											600	44.0								1																				

PROJECT NAME: ESSEX
PROJECT NUMBER: STP 030-K(17)S

PLOT FILE NAME: zstp030-K(17)sfrm.dgn
L&D PROJECT NUMBER: 00-074 DRAWN BY: PLC
DESIGNED BY: LAMOUREUX & DICKINSON CHECKED BY: RJD
CONSULTING ENGINEERS, INC. SHEET 5 OF 42

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