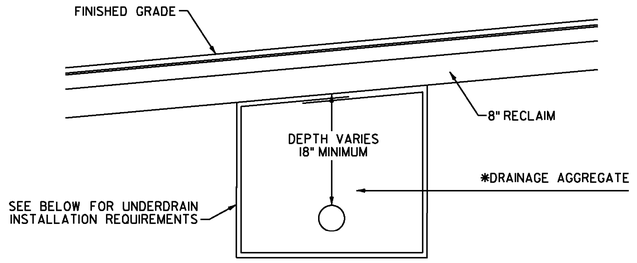
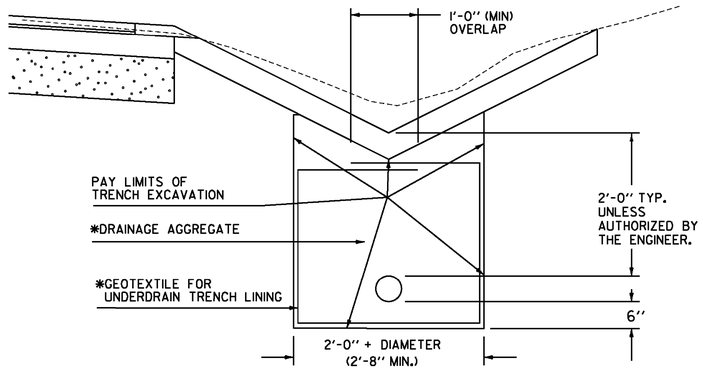
LOCATION					UNDERDRAIN				MISC. ITEMS		REMARKS
					204.20	204.21	605.10	619.17	*	*	
PIPE NO.	OUTLET INVERT	BEGIN STA.	END STA.	POS.	TRENCH EXCAVATION OF EARTH	TRENCH EXCAVATION OF ROCK	6 INCH UNDERDRAIN PIPE	YIELDING MARKER POSTS	DRAINAGE AGGREGATE	GEOTEXTILE FABRIC	
					CY	CY	LF	EA	CY	SY	
	VT ROUTE 128										
	ESSEX										
UD-1	473.2	11+71	16+40	LT	111	29	486	1	136	654	
UD-2	476.5	11+71	15+50	RT	90	23	396	1	110	530	
UD-3	475.6	19+20	21+25	LT	31	8	205	1	38	231	
UD-4	483.8	21+70	23+00	LT	26	7	130	1	32	164	
UD-5	484.0	25+00	28+35	RT	47	12	335	1	56	367	
UD-6	472.6	38+50	39+60	RT	21	6	110	1	26	136	
UD-7	483.4	65+50	67+50	LT	33	9	260	1	39	244	
UD-8	478.5	73+00	76+50	RT	78	20	350	1	96	467	
UD-9	475.8	80+50	84+70	RT	95	25	420	1	117	563	
UD-10	478.1	91+00	94+00	LT-RT	45	12	317	1	54	348	SEE PROJECT LAYOUT SHEETS FOR ALL UNDERDRAIN LOCATIONS
UD-11	473.9	135+50	140+00	LT	107	28	468	1	131	629	
UD-12	470.7	161+70	163+00	RT	22	6	130	1	27	153	
UD-13	458.4	214+50	218+80	RT	58	15	430	1	70	466	
UD-14	466.3	221+30	225+50	RT-LT	95	25	420	1	117	563	
	WESTFORD										
UD-15	470.0	26+80	32+00	LT-RT	69	18	520	1	83	560	
SUBTOTALS					928	243	4977	15	1132	6075	
ROUNDING					12	7	43	-	8	65	
TOTALS					940	250	5020	15**	1140	6140	

** TOTAL CARRIED FORWARD TO ITEM DETAIL SUMMARY SHEET - SEE SHEET 11



UNDERDRAIN CROSSING ROAD DETAIL

ESSEX STA. 91+00, LT TO STA. 94+00, RT
ESSEX STA. 221+30, RT TO STA. 225+50, LT
WESTFORD STA. 26+80, LT TO STA. 32+00, RT



DRAINAGE AGGREGATE SHALL MEET THE REQUIREMENTS OF SUBSECTION 704.16

*ITEMS ARE INCLUDED IN THE UNIT PRICE BID FOR PAY ITEM 605.10 6 INCH UNDERDRAIN PIPE

UNDERDRAIN DETAIL

NOT TO SCALE

NOTES:

1. GEOTEXTILE FOR UNDERDRAIN TRENCH LINING SHALL NOT BE PLACED AROUND UNDERDRAIN WHEN COVER ABOVE UNDERDRAIN IS LESS THAN 1 FOOT.
2. THE END OF THE UNDERDRAIN PIPE AT THE BEGINNING OF ALL UNDERDRAIN RUNS SHALL BE WRAPPED IN GEOTEXTILE FABRIC. PAYMENT FOR THIS WORK IS INCLUDED IN THE UNIT PRICE BID FOR ITEM 605.10 6 INCH UNDERDRAIN PIPE.

NOT TO SCALE

Stantec

UNDERDRAIN DETAIL SHEET

PROJECT NAME: ESSEX-WESTFORD
PROJECT NUMBER: STP 2912(1)

FILE NAME: p10c226.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p10c226unds01.i

PLOT DATE: 2/20/2013
DRAWN BY: STANTEC
CHECKED BY: STANTEC
SHEET 12 OF 239