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VAOT STANDARDS

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-1994
B-II	UNDERDRAIN - ROCK SUBGRADE, SLOPE STABILIZ.	06-01-1994
D-I	PRECAST REINFORCED CONCRETE DROP INLET DETAILS	06-01-1994
D-6	REINFORCED CONCRETE DROP INLET W/ GRATE (DITCHES)	06-01-1994
D-II	STEEL OR IRON GRATES & COVERS (TYPE A)	06-01-1994
D-15	PRECAST REINF. CONC. MH-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	06-01-1994
D-16	DRAINAGE DETAILS INCLUDING DROP INLETS, IRON GRATE TYPE B&C, CONC END SECTIONS, ETC.	06-01-1994
D-30	UNDERDRAIN CONSTRUCTION DETAILS	08-13-2007
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-25-2016
T-II	CONSTRUCTION APPROACH SIGNING DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-12	TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-3I	CONSTRUCTION SIGN DETAILS	08-06-2012
T-8I	VERMONT WARNING SIGN DETAILS	02-12-2016

PROJECT NAME: WILLISTON	
PROJECT NUMBER: IM SWFR(I)	
FILE NAME: z17d066_IND.dgn	PLOT DATE: 10/8/2018
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: A.G. MILLS
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REV	DATE	DESCRIPTION
Δ	12/3/2018	SHEET ADDED



EARTHWORKS

																				SUMMARY AND BALANCES																				
		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT						STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES		ACUMULATIVE EXCESSES	
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	CUT	FILL	CUT	FILL			
FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.												
MEDIAN A/B																																								
TOP LINE			73.7				517.5																																	
GRAVEL MEDIA			782.1																																					
WCA 4																																								
TOP LINE			175.6				340.1																																	
GRAVEL MEDIA			185.2																																					
WCA 3																																								
TOP LINE			8.6				2.3																																	
SAND MEDIA			94.5																																					
WCA 2																																								
TOP LINE			4.5				26.8																																	
GRAVEL MEDIA			103.7																																					
N.B. REST AREA																																								
TOP LINE			1905.7				694.5																																	
CHECK DAMS			150.0																																					
WCA TO																																								
TOP LINE			419.3				79.2																																	
SAND MEDIA			92.4																																					
WCA 1																																								
TOP LINE			871.5				15.0																																	
SAND MEDIA			76.9																																					
MEDIAN E/F																																								
TOP LINE			145.8				264.6																																	
GRAVEL MEDIA			107.2																																					
MEDIAN G/H																																								
TOP LINE			75.9				209.2																																	
GRAVEL MEDIA			395.0																																					
MEDIAN I																																								
TOP LINE			66.8				87.8																																	
GRAVEL MEDIA			85.2																																					

REMARKS	
EARTH AND ROCK EXCAVATION	5820
SOLID ROCK EXCAVATION	0
EARTH EXCAVATION	5820
PLANIMETERED FILL	2237
LESS FACTORED SOLID ROCK	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	2237
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	2573
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	5820
TRENCH EXCAVATION	500
UNDERDRAIN EXCAVATION	
STRUCTURE EXCAVATION	
TOTAL MATERIAL AVAILABLE FOR FILL	6320
TOTAL FILL INCLUDING FACTOR	2573
TOTAL MATERIAL FOR FILL	6320
BORROW	
EXCESS EXCAVATION	3747

PROJECT NAME: WILLISTON
PROJECT NUMBER: IM SWFR(I)
FILE NAME: z17d066_0S.dgn
PROJECT LEADER: E.P. DETRICK
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EARTHWORKS SUMMARY SHEET
PLOT DATE: 10/8/2018
DRAWN BY: B.M. ROBERTS
CHECKED BY: A.G. MILLS
SHEET 8A OF 54

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