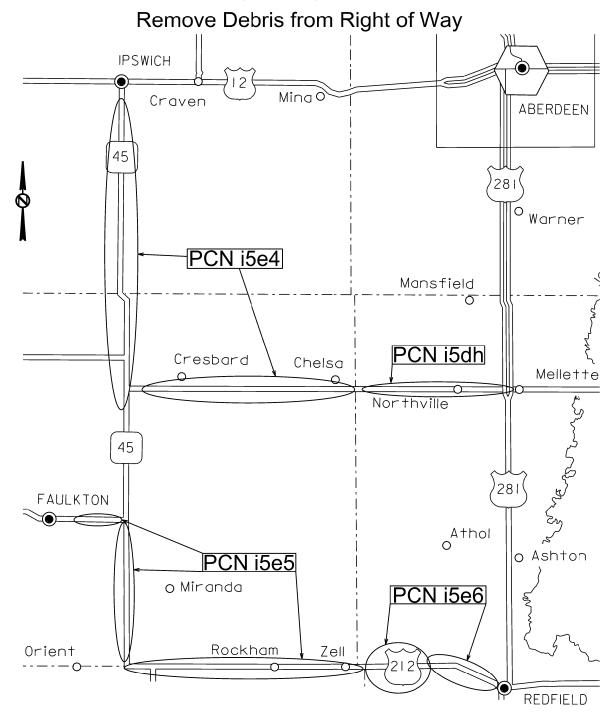
# PROJECT 000N-151, 000N-152, 000P-152 & 000P-192 PCN i5dh, i5e4, i5e5 & i5e6



# **INDEX OF PLAN SHEETS**

Sheet No. 1 Layout Map

Sheet No. 2 and 3 Index of Plan Sheets and Estimate of Quantities

Sheet No. 4 and 5 Table of Quantities

Sheet No. 6 and 7 Specifications and Plan Notes

Sheet No. 8, 9 and 10 Standard Plates

# **Estimate of Quantities**

## PCN i5dh

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	1	LS
634E0010	Flagging	20.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	1	LS
730E0202	Type B Permanent Seed Mixture	73	Lb
900E2030	Miscellaneous Work 2	3	Site

## PCN i5e4

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	1	LS
634E0010	Flagging	60.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	1	LS
730E0202	Type B Permanent Seed Mixture	513	Lb
900E2030	Miscellaneous Work 1	3	Site
900E2030	Miscellaneous Work 2	9	Site
900E2030	Miscellaneous Work 3	4	Site

## PCN i5e5

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	1	LS
634E0010	Flagging	25.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	1	LS
730E0202	Type B Permanent Seed Mixture	140	Lb
900E2030	Miscellaneous Work 1	2	Site
900E2030	Miscellaneous Work 2	3	Site
900E2030	Miscellaneous Work 3	1	Site

## PCN i5e6

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	1	LS
634E0010	Flagging	25.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	1	LS
730E0202	Type B Permanent Seed Mixture	106	Lb
900E2030	Miscellaneous Work 1	3	Site
900E2030	Miscellaneous Work 2	2	Site

۲. ۳	)																			
Misc.	5	Site						1		1							1		1	4
Misc. Misc. Misc.	7 N O N 7	Site				1	1		1		1	1	1		1	1		1		6
Misc.	TUDM	Site		1	1									1						8
Type B Permanent	Seed	<b>9</b> 7		8	4	88	21	74	27	97	11	77	18	6	35	34	64	98	67	491
Average	Depth	Inches		4	2	1	2	4	2	2	4	4	2	2	9	5	4	4	4	
	Area	Acre		0.19	0.21	1.85	1.18	4.08	1.53	2.54	96'0	1.35	1.00	0.50	1.75	1.87	3.56	1.98	2.71	27.27
	Area	SqYd		933	1017	1336	2689	19767	7386	12308	4624	6533	4840	2427	8493	9047	17253	9573	13100	124326
	Width	Feet		40	30	30	32	30	46	32	20	09	09	09	09	09	09	09	09	Total
	Length	Feet		210	302	7697	1463	0869	1445	3165	2081	086	126	364	1274	1327	2588	1436	1962	
	Len	Miles		0.040	0.058	0.510	0.277	1.123	0.274	665.0	0.394	0.186	0.138	690'0	0.241	0.257	0.490	0.272	0.372	
Side of	road			WEST	WEST	WEST	WEST	WEST	WEST	WEST	SOUTH									
	END	MRM	PCN i5e4	157 +0.095	161 +0.900	163 +0.137	164 +0.044	170 +0.039	171 + 0.499	175+0.597	304 +0.363	305 +0.000	305 +0.138	305 +0.285	306 +0.054	308 +0.071	309 +0.139	310 +0.010	310 +0.623	
	Begin	MRM	Project 000N-152	157+0.055	161+0.842	162 +0.884	163 + 0.867	168+0.916	171+0.225	175 +0.230	303 +0.969	305 +0.814	305 +0.000	305 +0.216	305 +0.811	307 +0.814	308 +0.648	309 +0.738	310 +0.251	
	Highway		Project	45	45	45	45	45	45	45	20	20	20	20	20	20	20	20	20	
	Site			1	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	

			Side of						Average	Type B Permanent	Misc.	Misc.	Misc.
 Highway	Begin	END	road	Length	Length	Width	Area	Area	Depth		Work 1	Work 1   Work 2   Work 3	Work 3
	MRM	MRM		Miles	Feet	Feet	SqYd	Acre	Inches	qŋ	Site	Site	Site
Project 000N-151	0N-151	PCN i5dh											
 20	312 +0.646	312 +0.832	SOUTH	0.186	086	09	6533	1.35	4	24		1	
20	320 +0.049	320 +0.159	NORTH	0.110	581	99	4261	0.88	9	16		1	
20	319 +0.974	320 +0.199	SOUTH	0.225	1190	99	8727	1.80	9	32		1	
Total						Total	19521	4.03		73		က	
Project 000P-152	10P-152	PCN i5e5											
212	269+0.238	269 +0.736	SOUTH	0.498	2632	40	11698	2.42	4	44			1
212	270+0.225	270 +0.717	SOUTH	0.492	2600	20	5778	1.19	3	21		1	
212	279 +0.408	279 +0.530	WEST	0.122	646	8	574	0.12	7	2	1		
212	282 +0.723	283.2 +0.000	SOUTH	0.477	2516	30	8387	1.73	7	31		1	
212	290+0.426	290 +0.693	SOUTH	0.267	1410	40	6267	1.29	7	23		1	
212	296+0.130	296 +0.309	SOUTH	0.179	945	30	3150	9.0	7	12	1		
						Total	35854	7.41		133	2	3	1
Project 000P-192	0P-192	PCN i5e6											
212	297 +0.589	297 + 0.958	SOUTH	698.0	1948	20	4329	68.0	τ	16	1		
212	300+0.021	300 +0.276	SOUTH	0.256	1350	30	4500	0.93	5	17	1		
212	300+0.276	300 +0.647	SOUTH	0.371	1961	12	2615	0.54	3	10	1		
212	300 +0.680	301 +0.032	SOUTH	0.352	1860	30	6200	1.28	2	23		1	
212	301 +0.458	302+0.000	SOUTH	0.542	2864	30	9547	1.97	9	98		1	
							,0,10			į		,	

#### **SPECIFICATIONS**

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

### **GENERAL NOTES**

The Contractor shall remove the corn stalks and topsoil that blew into the Right of Way at the locations specified in the tables provided. Care shall be taken to minimize the disturbance to the existing sod and maintain the shape of the ditch. The corn stalks and topsoil shall become property of the Contractor for disposal. Burning the corn stalks in the Right of Way will not be permitted. It is recommended that the Contractor inspects each site prior to bidding.

## **TRAFFIC CONTROL**

The work shall be completed using Standard Plates 634.01, 634.03 or 634.23. Work activities during non-daylight hours are subject to prior approval.

Any damage to the vegetation, surfacing, embankment, delineators and existing signs beyond work limits shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.

Flaggers shall be present when work activities or equipment present a hazard to workers and/or traffic.

The bottom of signs on portable or temporary supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas. Portable sign supports may be used as long as the duration is less than 3 days. If the duration is more than 3 days the signs shall be on fixed location, ground mounted, breakaway supports.

Traffic Control shall be set up for each site individually.

Work zones shall not exceed 2 miles in length.

### ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

			CONVENTIO	ONAL ROAD	
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
W21-5	SHOULDER WORK	2	48" x 48"	16.0	32.0
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT		137.0	

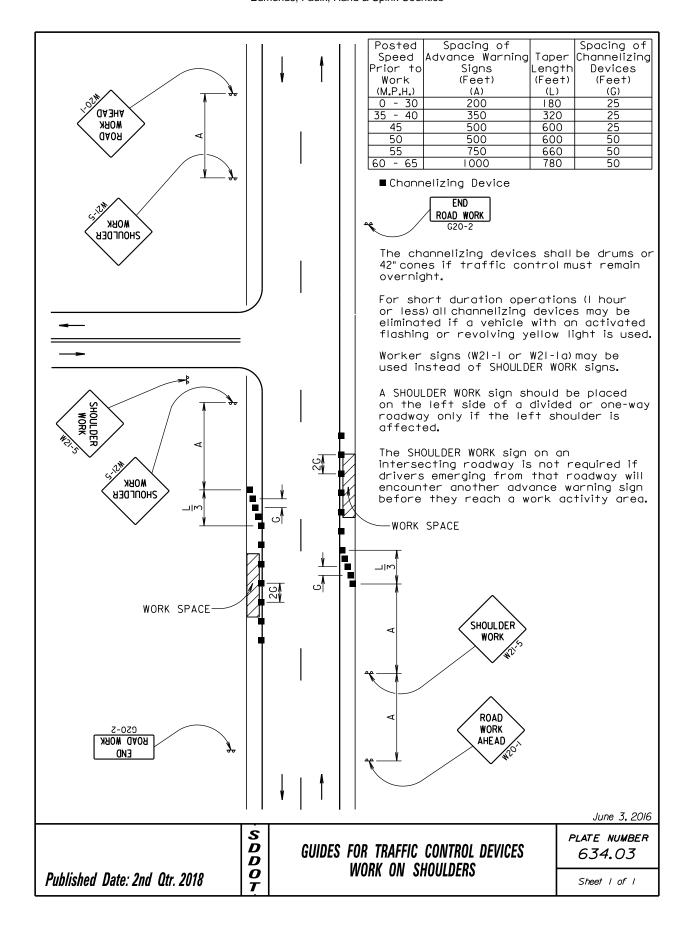
## **PERMANENT SEEDING**

The areas to be seeded consist of all disturbed areas within the project limits.

Type B Permanent Seed Mixture shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	7
Switchgrass	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	3
Indiangrass	Holt, Tomahawk, Chief, Nebraska 54	3
Big Bluestem	Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza	3
Canada Wildrye	Mandan	2
	Total:	18

Posted Spacing of Speed Advance Warning The signs illustrated are not required Prior to Signs if the work space is behind a barrier, more than 2 feet behind the curb, or 15 Work (Feet) (M.P.H.) (A) feet or more from the edge of any 0 - 30 200 roadway. 35 - 40 350 500 750 45 - 50 55 The signs illustrated shall be used where there are distracting situations; such as: 60 - 80 1000 vehicles parked on shoulder, vehicles accessing the work site via the highway, and equipment traveling on or crossing the roadway to perform work operations. The ROAD WORK AHEAD sign may be replaced with other appropriate signs, such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder. \* If the work space is on a divided highway, an advance warning sign WOŔĸ should also be placed on the left side of the directional roadway. SPACE For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used. ROAD WORK AHEAD April 15, 2015 PLATE NUMBER D **GUIDES FOR TRAFFIC CONTROL DEVICES** 634.01 D WORK BEYOND THE SHOULDER 0 Published Date: 2nd Qtr. 2018 Sheet | Of | 7



Posted	Spacing of	Spacing of
Speed	Advance Warning	Channelizing
Prior to	Signs	Devices
Work	(Feet)	(Feet)
(M.P.H.)	(A)	(G)
0 - 30	200	25
35 - 40	350	25
45	500	25
50	500	50
55	750	50
60 - 65	1000	50

■ Channelizing Device

For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

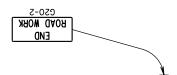
The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (I hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W2I-2) shall be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

The channelizing devices shall be drums or 42" cones.

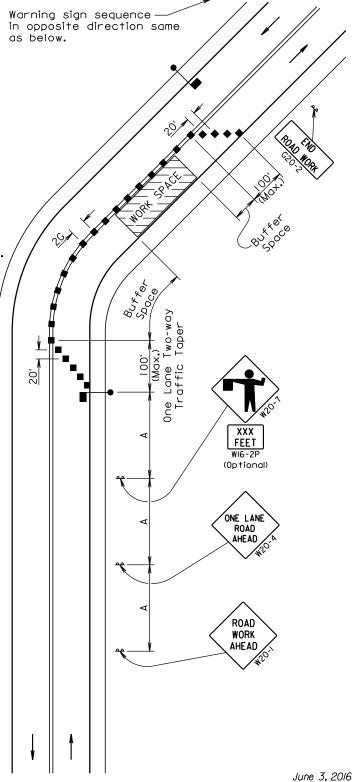
Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.



Channelizing devices and flaggers shall be used at intersecting roads to control intersecting road traffic as required.

The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.

The length of A may be adjusted to fit field conditions.



S D D O

GUIDES FOR TRAFFIC CONTROL DEVICES LANE CLOSURE WITH FLAGGER PROVIDED

PLATE NUMBER 634.23

Sheet I of I

Published Date: 2nd Qtr. 2018