

# North Dakota Department of Transportation

Thomas K. Sorel Director

Doug Burgum Governor

March 2, 2018

#### ADDENDUM 1 – JOB 29

TO: All prospective bidders on project SS-6-018(076)152, Job No. 29 scheduled for the March 9, 2018 bid opening.

The following plan and request for proposal revisions shall be made: Plan Revisions:

Remove and replace sheets 2-1, 6-1, 8-1, 100-1, 100-3 and 100-4 with the enclosed sheets revised 1/30/2018.

Sheet 2-1:

Added Sheet 100-4 and Sheet 100-5.

Sheet 6-1:

Added Note 704-500 PORTABLE RUMBLE STRIPS (PRS).

Sheet 8-1:

Updated Quantity 704-1000.

Added 704-1048 PORTABLE RUMBLE STRIPS (PRS).

Sheet 100-1:

Updated Traffic Control Devices List.

Sheet 100-3 & 4:

Added Sheets

Request for Proposal Revisions:

Remove and replace pages 5 of 7 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 3/1/2018.

The following changes were made to the Bid Items:

Spec No.	Code No.	Description	Description of Change
704	1000	TRAFFIC CONTROL SIGNS	Increased from 2,479 to 2,549 UNIT
704	1048	PORTABLE RUMBLE STRIPS	Added Item at 2 EA

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <u>http://www.bidx.com/</u> and load it into the AASHTOWare Project Bids program.

PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER 80: dch Enclosure

608 East Boulevard Avenue • Bismarck, North Dakota 58505-0700 Information: 1-855-NDROADS (1-855-637-6237) • FAX: (701) 328-0310 • TTY: 711 • dot.nd.gov North Dakota Department of Transportation

**BID ITEMS** 

Project: SS-6-018(076)152 (PCN-22117)

tem Spec C									Approx.	Unit Price		Amount	
۱o.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00				
001	103	0100	CONTRACT BOND	L SUM	1.								
002	107	0100	RAILWAY PROTECTION INSURANCE	L SUM	1.								
003	401	0070	FOG SEAL	GAL	8,640.								
004	420	0111	CRS2P EMULSIFIED ASPHALT	GAL	87,252.								
005	420	0127	COVER COAT MATERIAL CL 41-M	TON	2,160.								
006	702	0100	MOBILIZATION	L SUM	1.								
007	704	1000	TRAFFIC CONTROL SIGNS	UNIT	2,549.								
008	704	1048	PORTABLE RUMBLE STRIPS	EA	2.								
009	762	0103	PVMT MK PAINTED-MESSAGE	SF	466.								
010	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	37,792.								
011	762	1104	PVMT MK PAINTED 4IN LINE	LF	144,307.								
012	762	1108	PVMT MK PAINTED 8IN LINE	LF	300.								
013	762	1124	PVMT MK PAINTED 24IN LINE	LF	118.								
			TOTAL SUM BID										

### TABLE OF CONTENTS

#### PLAN SECTIONS

Section	Page(s)	Description
1	1	Title Sheet
2	1	Table of Contents
4	1	Scope of Work
6	1	Notes
8	1	Quantities
10	1-2	Basis of Estimate
20	1	General Details
30	1-2	Typical Sections
100	1-4	Work Zone Traffic Control
120	1-4	Pavement Marking

	LIST OF STANDARD DRAWING
Number	Description
D-101-1, 2,3	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31,32	Symbols
D-704-3	Lane Markers (Spotting Tab For Seal Projects Only)
D-704-7, 8	Breakaway Systems For Construction Zone Signs - Perforated
D-704-9, 10,11	Construction Sign Details - Terminal And Guide Signs
D-704-13	Barricade And Channelizing Device Details
D-704-14	Construction Sign Punching And Mounting Details
D-704-15	Road Closure Layouts
D-704-20	Terminal And Seal Coat Sign Layouts
D-704-22	Construction Truck And Temporary Detour Layouts
D-704-27	Traffic Control Plan For Moving Operations
D-704-50	Portable Sign Support Assembly
D-762-1	Pavement Marking Message Details
D-762-4	Pavement Marking
D-762-11	Short-Term Pavement Marking

REVISED 1/30/2018

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SS-6-018(076)152	2	1
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100-P02 105-110	LARIMORE DAYS: The annual Larimore Days is tentatively scheduled for Monday, July 16 <sup>th</sup> , through Sunday, July 22 <sup>nd</sup> in the City of Larimore. Contact the City Auditor at (701)343-2181 prior to beginning work on this project to confirm these dates. No work will be performed within the city limits during this time period. COORDINATION OF PROJECTS: Another project in the vicinity of this project is under contract during the 2018 construction season. This project is RSS-6-018(075)163, which is the replacement of RR Crossing - BNSF X-ING DOT 086877M, and is located in the city of Larimore.	704-500	<ul> <li>PORTABLE RUMBLE STRIPS (PRS): Use PR</li> <li>Install PRS that meet the following criteria: <ul> <li>Have no adhesives or fasteners require</li> <li>Have a manufacture's speed rating that</li> <li>Each strip in the array must weigh a minimal</li> </ul> </li> </ul>
105-110	during the 2018 construction season. This project is RSS-6-018(075)163, which is the replacement of		
			Use individual PRS constructed in one of the fo
	PAVEMENT SWEEPING: Sweep paved areas that were used by construction traffic before opening these areas to public traffic.		<ul><li>A single piece;</li><li>Inter locking segments; or</li><li>Two pieces hinged at the midpoint.</li></ul>
	Sweep all newly constructed pavement no more than 24 hours before a scheduled final inspection.		An installed array of PRS consists of a minimur
	Use a vacuum or pick-up type sweeper to perform this work within the City segment.		Move rumble strips with the flagging operation.
	RAILROAD PROTECTIVE LIABILITY INSURANCE: This project crosses the BNSF Railway Company at RP 163.202. The type of work that will be performed within the railroad right of way is preventative maintenance Seal and Cover coat. Direct inquiries regarding protective liability insurance to:		The Engineer will count and measure each arra maintaining, and relocating PRS in the unit price
	Rosa Martinez Marsh USA Inc. 4400 Comerica Bank Tower 1717 Main Street	704-P01	TRAFFIC CONTROL FOR SEAL COATS: Prov closure, flagging, and a pilot car.
	Dallas, TX 75201-7357, USA 214-303-8519		Traffic control device quantities are based on a
	Rosa.M.Martinez@marsh.com Obtain information regarding crossing number 086877M from the Federal Railroad Administration website: http://safetydata.fra.dot.gov/Officeofsafety/		<ol> <li>Standard D-704-15, layout A, place layolocated within the work zone require signature 2. Standard D-704-20, layout H, signing w 12, 6, and 4.</li> <li>Standard D-704-22, layouts K and L.</li> </ol>
	FOG SEAL APPLICATION: CSS-1H will be required. Broom roadway before the Fog Seal application. Apply Fog Seal at the rate shown in the Basis of Estimate, or as directed by the Engineer. Dilute the Fog Seal oil 50% (water) and 50% (CSS-1H) or as directed by the Engineer. Dilution at the supplier will be required. Begin this work within 48 hours of the mainline seal completion.		Provide additional devices at no cost to the Dep Place flaggers and traffic control devices as sho intersections when the lane closure spans acros
	SEAL COAT: Initial light brooming will be during the cool period of the early morning of the next day after seal application. Traffic control will be needed during the brooming operation.		<ol> <li>Grand Forks County Road 12</li> <li>Grand Forks County Road 6</li> <li>Grand Forks County Road 4</li> </ol>
	PROTECTION OF UTILITIES: All manholes, catch basins and valves shall be covered and protected from seal coat operations. Monuments in the limits of the seal coat not shown on the plans shall be protected.		PAVEMENT MARKING: If the Engineer and Cor measurement for payment for pavement marking

REVISED 01/30/2018	STATE	PROJECT NO.		SECTION NO.	SHEET NO.
	ND	SS-6-018(076)	)152	6	1
BLE STRIPS (PRS): Use PR	S mad	e of rubber or engineer	ed polymers		
eet the following criteria: dhesives or fasteners require inufacture's speed rating that in the array must weigh a min	meets	or exceeds the posted	speed limit;	and	
constructed in one of the fo ece; g segments; or s hinged at the midpoint.	llowing	manners:			
of PRS consists of a minimun	n of 3 i	ndividual strips.			
with the flagging operation.	Do not	place rumble strips on	horizontal c	urves.	
count and measure each arra elocating PRS in the unit price				ı, installir	ng,
DL FOR SEAL COATS: Prov nd a pilot car.	ide tra	fic control consisting of	a temporary	/ lane	
ce quantities are based on a	6 mile	limitation and following	list:		
D-704-15, layout A, place layo hin the work zone require sig D-704-20, layout H, signing w 4. D-704-22, layouts K and L.	n W20	-7-48 only;		-	
devices at no cost to the Dep	artmei	nt.			
traffic control devices as sho the lane closure spans acros			yout A at the	followin	g
ks County Road 12 ks County Road 6 ks County Road 4					
ING: If the Engineer and Cor ayment for pavement marking			ill be used a	s the	
			and s Dusti Registrat PE- on 01/30 original is stored Dakota I	Ily issue ealed by in Lang, ion Nun -6394, /18 and docume at the N	ed y nber the ent lorth nent

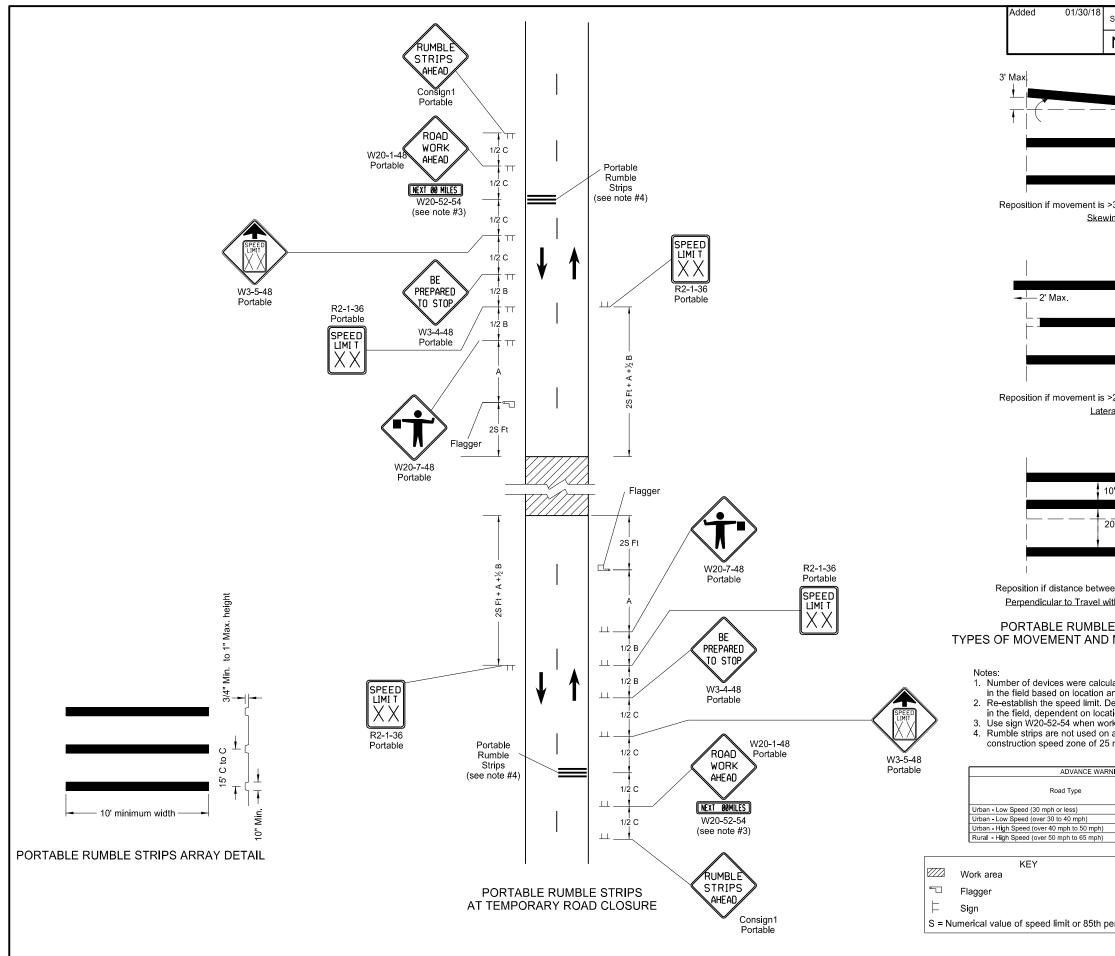
## ESTIMATE OF QUANTITIES

SPEC	CODE ITEM DESCRIPTION	UNIT	MAINLINE	SECTION 3-4	SECTION 5
103	0100 CONTRACT BOND	L SUM	1		
107	0100 RAILWAY PROTECTION INSURANCE	L SUM	1		
401	0070 FOG SEAL	GAL	7,776	793	71
420	0111 CRS2P EMULSIFIED ASPHALT	GAL	80,349	6,338	565
420	0127 COVER COAT MATERIAL CL 41-M	TON	1,944	198	18
702	0100 MOBILIZATION	L SUM	1		
704	1000 TRAFFIC CONTROL SIGNS	UNIT	2,549		
704	1048 PORTABLE RUMBLE STRIPS	EA	2		
762	0103 PVMT MK PAINTED-MESSAGE	SF	466		
762	0430 SHORT TERM 4IN LINE-TYPE NR	LF	37,792		
762	1104 PVMT MK PAINTED 4IN LINE	LF	136,315	7,992	
762	1108 PVMT MK PAINTED 8IN LINE	LF	300		
762	1124 PVMT MK PAINTED 24IN LINE	LF	46	72	

STATE	PROJECT NO.	SECTION NO.	SHEET NO.	
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SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
D3-36 G20-1-60	36"x6"	STREET NAME SIGN (Sign and installation only)		6	
G20-1-60 G20-1b-60	60"x24" 60"x24"	ROAD WORK NEXT MILES WORK IN PROGRESS (Sign and installation only)	2	34 26	68
G20-2-48	48"x24"	END ROAD WORK	2	19	38
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)		18	
G20-10-108		CONTRACTOR SIGN		64	
G20-50a-72 G20-52a-72	72"x36" 72"x24"	ROAD WORK NEXT MILES RT & LT ARROWS ROAD WORK NEXT MILES RT or LT ARROW	4	37 30	148
G20-52a-72 G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT	2	59	0
M1-1-36		INTERSTATE ROUTE MARKER (Post and installation only)		10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)		10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)		10	
M3-1-24 M3-2-24	24"x12" 24"x12"	NORTH (Mounted on route marker post) EAST (Mounted on route marker post)		7	
M3-3-24 M3-3-24	24 x12 24"x12"	SOUTH (Mounted on route marker post)		7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)		7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)		7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT		15	
M4-10-48	48"x18"	DETOUR ARROW RIGHT or LEFT		23	
M5-1-21 M5-2-21	21"x15" 21"x15"	ARROW AHD AND RT or LT(Mounted on route marker post) ARROW AHD UP & RT or LT (Mounted on route marker post)		7	
M5-2-21 M6-1-21	21"x15" 21"x15"	ARROW AND UP & RT or LT (Mounted on route marker post) ARROW RT or LT (Mounted on route marker post)		7	
M6-2-21	21 x15 21"x15"	ARROW UP & RT or LT (Mounted on route marker post)		7	
M6-3-21	21"x15"	ARROW AHD (Mounted on route marker post)		7	
R1-1-48	48"x48"	STOP		32	
R1-1a-18	18"x18"	STOP and SLOW PADDLE Back to Back	4	5	20
R1-2-60	60"x60"	YIELD		29	
R2-1-48 R2-1a-24	48"x60" 24"x18"	SPEED LIMIT MINIMUM FEE \$80 (Mounted on Speed Limit post)	7	<u>39</u> 10	27:
<b>R2-1a-24</b> R3-7-48		LEFT or RIGHT LANE MUST TURN LEFT or RIGHT	1	10 35	
R4-1-48		DO NOT PASS	9	39	35
R4-7-48	48"x60"	KEEP RIGHT SYMBOL		39	
R5-1-48		DO NOT ENTER		35	
R6-1-36	36"x12"	ONE WAY RIGHT or LEFT		13	
R7-1-12	12"x18"	NO PARKING		11	
R10-6-24 R11-2-48	24"x36" 48"x30"	STOP HERE ON RED ROAD CLOSED		16 28	
R11-2-40		STREET CLOSED	2	28	5
R11-3a-60	60"x30"	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY		31	
R11-3c-60	60"x30"	STREET CLOSED MILES AHEAD LOCAL TRAFFIC ONLY		31	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC	2	31	62
W1-3-48	48"x48"	RIGHT or LEFT SHARP REVERSE CURVE ARROW		35	
W1-4-48 W1-4b-48	48"x48" 48"x48"			35	
W1-40-48 W1-6-48	48"x48" 48"x24"	DOUBLE RIGHT or LEFT REVERSE CURVE ARROW LARGE ARROW		35 26	
W3-1-48	48"x48"	STOP AHEAD SYMBOL		35	
W3-3-48	48"x48"	SIGNAL AHEAD SYMBOL		35	
W3-4-48	48"x48"	BE PREPARED TO STOP	4	35	14
W3-5-48	48"x48"	SPEED REDUCTION AHEAD	10	35	35
W4-2-48	48"x48"	RIGHT or LEFT LANE TRANSITION SYMBOL		35	
W5-1-48 W5-8-48	48"x48" 48"x48"	ROAD NARROWS THRU TRAFFIC RIGHT LANE		35	
W5-9-48	40 x40 48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35 35	
W6-3-48	48"x48"	TWO WAY TRAFFIC SYMBOL		35	
W8-1-48	48"x48"	BUMP		35	
W8-3-48	48"x48"	PAVEMENT ENDS		35	
W8-7-48	48"x48"	LOOSE GRAVEL		35	<u> </u>
W8-9a-48 W8-11-48	48"x48" 48"x48"	SHOULDER DROP-OFF UNEVEN LANES		35 35	
W8-11-48 W8-12-48	48"x48" 48"x48"	NO CENTER STRIPE	6	35 35	21
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY		35	1
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or FT.		35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or FT.		35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY		35	
W9-3a-48	48"x48"			35	
W12-2-48 W13-1-24	48"x48" 24"x24"	LOW CLEARANCE SYMBOL MPH ADVISORY SPEED PLATE (Mounted on warning sign post)		35 11	
W13-1-24 W13-4-48	48"x60"	RAMP ARROW		39	
W14-3-48	48"x36"	NO PASSING ZONE		23	
W20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE		35	
W20-2-48	48"x48"	DETOUR AHEAD or FT		35	
W20-3-48	48"x48"			35	
W20-4-48 W20-5-48	48"x48" 48"x48"	ONE LANE ROAD AHEAD or FT. RIGHT or LEFT LANE CLOSED AHEAD or FT.		35 35	
W20-5-48 W20-7a-48	48"x48" 48"x48"	FLAGGING SYMBOL	4	35 35	14
W20-7k-24	24"x18"	FEET (Mounted on warning sign post)		10	
W20-8-48	48"x48"	STREET CLOSED	2	35	70
W20-51-48	48"x48"	EQUIPMENT WORKING		35	
W20-52-54	54"x12"	NEXT MILES (Mounted on warning sign post)	9	12	108
W21-1a-48 W21-2-48	48"x48" 48"x48"	WORKERS SYMBOL		35	
		FRESH OIL		35	

Revised 1/30/2018				STATE			PRO	JECT NO.	SECTION NO.	SHEET NO.
				ND		S	S-6-01	018(076)152 100		
SIGN NUMBER	SIGN SIZE	DESCRIPTION		AMO REQU		UNITS PER AMOUNT	UNITS SUB TOTAL			
/21-5-48	48"x48"	SHOULDER WORK				35				
21-5a-48 21-5b-48	48"x48" 48"x48"	RIGHT or LEFT SHOULDER CLOSED RIGHT or LEFT SHOULDER CLOSED AHEAD or FT.				35 35		-		
'21-6a-48	48"x48"	SURVEY CREW AHEAD				35				
21-50-48 21-51-48	48"x48" 48"x48"	BRIDGE PAINTING AHEAD or FT. MATERIAL ON ROADWAY				35 35				
22-8-48	48 x48	FRESH OIL LOOSE ROCK		9	)	35	315			
	24"x24"	TAKE TURNS (6" D letters) (Mounted on stop sign post)				11				
				_						
								-		
								-		
								]		
ECIAL SIG										
DNSING 1	48"x48"	RUMBLE STRIPS AHEAD		2	2	35	70			
								NOTE:		
								If additional si		
								If additional si required, units	will be	
PEC & COE 704-1000	DE	TRAFFIC CONTROL SIGNS	TOTAL UNITS				2549	If additional si required, units calculated usi from Section	will be ng the formula II-19.06 of the	
	DE	TRAFFIC CONTROL SIGNS	TOTAL UNITS				2549	If additional si required, units calculated usi from Section Design Manua	will be ng the formula II-19.06 of the al.	
704-1000	DE	TRAFFIC CONTROL SIGNS DESCRIPTION		QUANTIT	TY		2549	If additional si required, units calculated usi from Section	will be ng the formula II-19.06 of the al.	
704-1000 SPEC & CODE	DE	DESCRIPTION		QUANTIT	ГҮ		2549	If additional si required, units calculated usi from Section Design Manua	will be ng the formula II-19.06 of the al.	
<b>SPEC &amp;</b> <b>CODE</b> 704-0100 704-1041	FLAGGIN ATTENU/	DESCRIPTION IG ATION DEVICE-TYPE B-55	UNIT MHR EACH	QUANTIT	ГҮ		2549	If additional si required, units calculated usi from Section Design Manua	will be ng the formula II-19.06 of the al.	
<b>704-1000</b> <b>SPEC &amp;</b> <b>CODE</b> 704-0100 704-1041 704-1043	FLAGGIN ATTENU/ ATTENU/	DESCRIPTION	UNIT MHR EACH EACH	QUANTIT	TY		2549	If additional si required, units calculated usi from Section Design Manua	will be ng the formula II-19.06 of the al.	
704-1000 SPEC & CODE 704-0100 704-1041 704-1043 704-1043 704-1050	FLAGGIN ATTENU/ ATTENU/ ATTENU/ TYPE I B/	DESCRIPTION IG ATION DEVICE-TYPE B-55 ATION DEVICE-TYPE B-65 ATION DEVICE-TYPE B-70 ARRICADES	UNIT MHR EACH EACH EACH EACH	QUANTIT	TY		2549	If additional si required, units calculated usi from Section I Design Manua http://www.do	s will be ng the formula II-19.06 of the al. .nd.gov/	
704-1000 SPEC & CODE 704-0100 704-1041 704-1043 704-1043 704-1050 704-1051	FLAGGIN ATTENU/ ATTENU/ ATTENU/ TYPE I B. TYPE II E	DESCRIPTION IG ATION DEVICE-TYPE B-55 ATION DEVICE-TYPE B-65 ATION DEVICE-TYPE B-70	UNIT MHR EACH EACH EACH	QUANTIT	TY		2549	If additional si required, units calculated usi from Section I Design Manua http://www.do	s will be ng the formula II-19.06 of the al. .nd.gov/ document w	
<b>SPEC &amp;</b> <b>CODE</b> 704-0100 704-1041 704-1043 704-1044 704-1050 704-1051 <b>704-1052</b> 704-1060	FLAGGIN ATTENU/ ATTENU/ TYPE IB TYPE II DELINEA	DESCRIPTION IG ATION DEVICE-TYPE B-55 ATION DEVICE-TYPE B-65 ATION DEVICE-TYPE B-70 ARRICADES MARRICADES BARRICADES BARRICADES TOR DRUMS	UNIT EACH EACH EACH EACH EACH EACH EACH EACH	QUANTIT			2549	If additional si required, units calculated usi from Section Design Manua http://www.do	document w ginally issue	d
704-1000 SPEC & CODE 704-0100 704-1041 704-1043 704-1050 704-1051 704-1052 704-1060	FLAGGIN ATTENU/ ATTENU/ ATTENU/ TYPE IB TYPE II DELINEA TRAFFIC	DESCRIPTION G ATION DEVICE-TYPE B-55 ATION DEVICE-TYPE B-65 ATION DEVICE-TYPE B-70 ARRICADES SARRICADES SARRICADES TOR DRUMS CONES	UNIT MHR EACH EACH EACH EACH EACH EACH EACH EACH	QUANTIT			2549	If additional si required, units calculated usi from Section I Design Manua http://www.do	document w ginally issuen d sealed by	d
704-1000 SPEC & CODE 704-0100 704-1041 704-1043 704-1043 704-1044 704-1050 704-1051 704-1065 704-1065 704-1067 704-1067 704-1067	FLAGGIN ATTENU, ATTENU, ATTENU, TYPE IB, TYPE III DELINEA TRAFFIC TUBULAF DELINEA	DESCRIPTION IG ATION DEVICE-TYPE B-55 ATION DEVICE-TYPE B-65 ATION DEVICE-TYPE B-70 ARRICADES ARRICADES BARRICADES TOR DRUMS CONES R MARKERS TOR TOR	UNIT MHR EACH EACH EACH EACH EACH EACH EACH EACH	QUANTIT			2549	If additional si required, units calculated usi from Section I Design Manua http://www.do This orig ar	document w ginally issuen d sealed by ustin Lang,	d
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