

GENERAL		BC STAND	STANDARDS TCP STANDARDS		TCP STANDARDS CONT.		
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WORK ZONE STANDARDS

SHEET NO. DESCRIPTION
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Texas Department of Transportation

INDEX SHEET

© 2024 by Texas Department of Transportation; all rights reserved Project Number: RMC 6466-65-001

County: Jack & Wise Highway: SH114, ETC.

FORT WORTH DISTRICT MAINTENANCE GENERAL NOTES 2014 SPECIFICATIONS

Special Notes:

Contractor questions on this project are to be addressed to the following individual(s):

Director of Maintenance: <u>Janet.Crawford@txdot.gov</u> District Maintenance Engineer: <u>Elijah.S.Zelenov@txdot.gov</u> Design Manager: Christopher.Christie@txdot.gov

Questions may be submitted via the Letting Pre-Bid Q&A web page. The webpage can be accessed from the Notice to Contractors dashboard located at the following Address:

https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

General Notes:

Plans are required for this project. Plans may be obtained from one of the plan companies listed in the "Special Notice to Contractors", or viewed at Texas Department of Transportation's (TxDOT's) Internet site at https://www.txdot.gov/business/letting-bids/plans-online.html

Contract Prosecution: Each contract awarded by the Department stands on its own and as such, is separate from other contracts. A Contractor awarded multiple contracts must be capable and sufficiently staffed to concurrently process and/or execute all contracts and work orders at the same time.

Furnish crew(s) and equipment capable of maintaining work in a continuous manner for the completion of the work listed on the work order

Personnel will be experienced in items of work in the contract which they will be performing. Safety vests and hard hats will be pre-approved and worn at all times outside vehicles within the work area. Safety vests shall be Class III.

Provide and maintain a dedicated email address for receipt of work orders and correspondence throughout the term of this contract.

Sheet 3A

Control: 6466-65-001

Seasonal limitation will be in effect for this contract. Work to be performed October - March.

Prior to mobilizing equipment into the Fort Worth District, all equipment will be clean and free of any debris from prior use in other districts or counties.

Project Description - This project consists of CLEANING AND SEALING JOINTS AND CRACKS on sections of highway within Jack and Wise Counties as shown in the contract and defined in these general notes and specifications. Coordinate all work through the Maintenance Office listed below:

Jack/Wise
1710 US-380
Decatur, Texas 76234
(940) 266-3400

Item 7 Legal Relations and Responsibilities

Item 7.2.4. Public Safety and Convenience.

Personal vehicles will not be parked within the right-of-way at any time, including any section closed to the traveling public.

Operations will be curtailed or halted during special events that may result in delays or congestion to the traveling public.

No work that restricts or interferes with traffic shall be allowed from 3:00 pm on the day preceding the Holiday or Event to 9:00 am on the day after the Holiday or Event. The following Holiday/Event lane closure restriction requirements apply to this project:

elosare resuretion requirements approved this project	
Holiday Lane Cle	osure Restrictions
New Year's Eve and New Year's Day (December	3 PM December 30 through 9 AM January 2
31 through January 1)	
Easter Holiday Weekend (Friday through Sunday)	3PM Thursday through 9 AM Monday
Memorial Day Weekend (Friday through	3 PM Thursday through 9 AM Tuesday
Monday)	
Independence Day (July 3 through July 5)	3 PM July 2 through 9 AM July 6
Labor Day Weekend (Friday through Monday)	3 PM Thursday through 9 AM Tuesday
Thanksgiving Holiday (Wednesday through	3 PM Tuesday through 9 AM Monday
Sunday)	
Christmas Holiday (December 23 through	3 PM December 22 through 9 AM December 27
December 26)	

General Notes General Notes Sheet A Project Number: RMC 6466-65-001 Sheet 3B

County: Jack & Wise Control: 6466-65-001

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No lane closures within approximately 1 mile proximity (based on potential impact) of major retail traffic

Event Lane Closure Restrictions							
3 PM the day before Event to 9 AM the day after the Event							
Indy Series Racing and NASCAR Truck Series (held in June)							

The above list of events is not all inclusive and should be added to or adjusted as needed. When deemed necessary, the Engineer will modify the list of major events when new events develop, existing events are rescheduled, or when warranted.

Modifications to Lane Closure / Work Restrictions:

Submit a request in writing for approval by the Engineer a minimum of 10 days in advance of implementing a change to lane closure restrictions.

When deemed necessary, the Engineer will lengthen, shorten, or otherwise modify lane closure restrictions as traffic conditions warrant.

Item 8 Prosecution and Progress

Item 8.1. Prosecution of Work.

This contract has site-specific work. Notification of site-specific work will be executed by initial work order. Work will begin no later than 7 calendar days from issuance of the work order letter and continuously processed to completion unless otherwise approved by the Engineer.

Upon issuance of initial work order all work orders thereafter shall begin operations within seventy-two (72) hours after verbal and/or written notification.

Notify section supervisor twenty-four (24) hours in advance of the date and time the Contractor plans to commence work.

This contract will have <u>multiple and concurrent work orders</u>. No more than four (4) work orders will be issued to be performed at the same time.

Item 8.3. Computation of Contract Time for Completion.

Working days will be charged in accordance with Section 8.3.3.2.2., "Nighttime Work and Daytime Work Requiring Inspector".

Working days for work orders will be calculated by dividing quantities by production rate. A fraction of the day will be rounded up to the next whole number. If the total number of working days is not used during the completion of the work order the working days will not be carried forward to a subsequent work order. Each work order will define the total number of working days for that work order as defined in Section 8.3.1.4. Standard Work Week in the Standard Specifications For Construction And Maintenance Of Highways, Streets, And Bridges.

The Engineer has the right to grant additional time or terminate a work order if inordinate amounts of adverse weather conditions occur. These conditions may be roadway icing, excessive rainfall, or any other weather condition that could prevent the contractor from completing a work order in the time specified. If a work order is terminated, the Contractor will only be paid for the work that has been satisfactorily completed on the work order.

For Site Specific items, it is of utmost importance that work be prosecuted to completion within the timeframe noted in the above identified Site-Specific Schedule of Work.

Item 8.3.2. Restricted Work Hours. Perform work as shown below, unless otherwise approved:

Daytime Work	Nighttime Work				
Sunrise - Sunset	07:00 pm – 6:00 am				
Monday – Friday	Sunday - Thursday				
Saturday-Optional					
Excluding National Holidays					

The contractor has the option of working on Saturdays or State holidays with forty-eight (48) hour advance notice. Work on Sundays or National holidays will not be permitted without written permission from the Engineer.

Working day charges for nighttime work will be charged against the night in which work begins.

Item 8.5. Project Schedules.

Prepare the schedules as a Bar Chart. Schedules must be submitted by the twentieth (20th) day of every month

Item 8.6. Failure to Complete Work on Time.

The response time specified in the contract is an essential element. Liquidated damages will be assessed when the Contractor fails to https://example.com/beginson-sep-16 to https://example.com/beginson-sep-16 to begin work within the specified response times for any Item(s). The dollar amount specified in this contract will be deducted from any money due or to become due for any Items(s) and will continue to be deducted for each day until work begins. This amount will be assessed not as a penalty, but as liquidated damages.

General Notes General Notes Sheet B

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County: Jack & Wise

Highway: SH114, ETC.

Failure to complete a project in the working days specified in the work order, time charges will continue for each working day until work is completed for that work order. The amount assessed for liquidated damages will be based on the total value of the original contract, in accordance with Special Provision 000-1243, not the estimated amount on individual work orders.

When a minimum production rate is shown in the plans, liquidated damages will be charged for each working day the minimum production rate is not met.

Item 500. Mobilization.

Mobilization will be paid by lump sum.

Item 502. Barricades, Signs, and Traffic Handling.
Provide equipment such as trucks, trailers, autos, etc., with highly visible omni-directional warning flashing lights. These lights will be used within the work zone at all times. Provide forward facing arrow panel on lead vehicles when working in a continuous turn lanes. The Engineer will approve all equipment and vehicles prior to use.

All traffic control, with the exception of Special Specification 6185 Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA), is subsidiary to the various bid items in accordance with Section 502.4.1.6 Contracts with Callout Work and Work Orders in the 2014 Standard Specifications For Construction And Maintenance Of Highways, Streets, And Bridges.

Mount signs on their own stands. Attach two (2) brightly colored safety flags to each sign. Do not hang or lean signs on or against any other sign post or delineator post. Erect signs in such a manner that they will not obstruct the traveling public's view of normal roadway signing or obstruct sight distance at intersections or curves.

Shadow vehicles equipped with Truck-Mounted Attenuators (TMA's) are required as shown on all Traffic Control Plan (TCP) Standards. Striping will be required on the back panel of truck mounted attenuators, and will be 8 inches of red and white stripes placed on an inverted "V" design. Sheeting will conform to departmental material Specification D-9-8300, Type "C".

Provide signing and traffic control in compliance with the Texas Manual on Uniform Traffic Control Devices (TMUTCD), latest edition, and the appropriate traffic control method as outlined in the TMUTCD, and elsewhere in the plans.

Portable Changeable Message Signs (PCMS) shown on the Traffic Control Plan (TCP) Standards as "optional" will be required on this contract. Additional PCMS may be required and will be paid for under the appropriate bid item. PCMS shall be placed a minimum of 48 hours in advance of work on all roadways, and 7 days in advance of work on Tier 1 roadways.

Lane closures will be required on roadways as indicated in the plans and will be a maximum of two (2) miles from beginning of taper to end of closure. Lane closures will also be required on roadways allowing mobile operations in areas with inadequate field of view as determined by the Engineer

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Provide a Department Approved Truck Mounted Attenuator (TMA) behind all equipment overhanging roadway travel lanes. Trailer all slow moving vehicles (designed to operate 25mph or less) crossing freeway main lanes.

Dedicated personnel must be on duty to maintain barricades.

Equipment and materials will not be left within thirty feet (30') of the travel lane during non-working

Submit a lighting plan for nighttime work for TxDOT review and approval.

Provide Multi-Directional Lighting Device (MDLD) for nighttime work with the following quality

- Provide a 2000 watt (minimum) SIROCCO lighting balloon, Airstar lighting or equivalent
- It is the intent of the MDLD lighting to supplement the Portable Road Light and Power Unit used to illuminate work areas during night work hours.
- · Provide MDLD units which can self-inflate and are capable of illuminating approximately 15,000 sq. ft.
- · Provide MDLD units of 1.1 meter horizontal diameter and capable of withstanding 60 mph winds when fully inflated and operating.
- · Provide MDLD units with two (2) 1,000 watt halogen bulbs recommended by the manufacturer.

Item 502.4.2. Law Enforcement Personnel.

If off-duty uniformed police officers are to be used during daytime hours, obtain prior approval from the Engineer. Nighttime closures will require off-duty uniformed police officer(s). All off-duty uniformed police officers will have marked police vehicle(s) with jurisdiction and full police power in the city or county where the work is being performed. Determine and agree upon the number of off-duty uniformed police officers in advance of the work. Off-duty police officers will be paid for through force account. Fill out Form 318 "Daily Report on Law Enforcement" to check against invoice for officers.

Item 712. Cleaning and Sealing Joints and Cracks (Asphalt Concrete).

The District Maintenance Office will notify the maintenance section at the beginning of the crack sealing season as to when sealing operations may commence. Work Orders will not be issued prior to notice to commence date and will not be issued before October 1st of the sealing season.

General Notes General Notes Sheet C Project Number: RMC 6466-65-001 Sheet 3D

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Clean pavement surfaces prior to application to remove excessive debris including, but not limited to dead animals, lumber, tire tread, etc. Surface preparation is subsidiary to the various bid items.

Protect raised pavement markers and any striping that may have a warranty from damage. Damage to raised pavement markers or striping resulting from the Contractor's operations will be replaced at the contractor's

Perform crack sealing during the following season: October 1 to March 31, unless otherwise approved by the Engineer. Begin crack sealing early enough to complete the entire project before the season expires. Temperature Restrictions for placement will be a minimum ambient temperature of 40 degrees Fahrenheit and maximum ambient temperature of 60 degrees Fahrenheit, unless otherwise directed by the engineer.

Class B Rubber Asphalt shall be required.

Complete all work at each location before advancing to the next location unless directed by the Engineer.

Dispose of solvents or other materials in a timely manner in accordance with local, state, and federal regulations. Provide written documentation showing proof of compliance when requested.

Provide air blasting equipment capable of delivering a sufficient volume of filtered air, free of oil, water, or other contaminants to remove all loose debris and material from cracks and joints to be sealed.

For this contract, the required lane miles per normal working day will be ten (10).

Item 6001. Portable Changeable Message Sign.

Provide electronic portable changeable message sign unit(s) as directed.

If more than one (1) crew works on the same day, but in different locations, each crew will use portable changeable message signs and arrow panels.

Each sign will have the following eighteen (18) messages programmed in its permanent memory:

- 1. Ramp Closed Ahead
- Use Other Routes Right Lane Closed
- 4.
- Left Lane Closed Closed Ahead
- Two Lane Detour Ahead
- Thru Traffic
- 9. Be Prepared To Stop
- 10. Merging Traffic 11. Expect 15 Minute Delay 12. Max Speed **MPH

- 13. Merge Right
- 14. Merge Left
- 15. No Exit Next ** Miles
- 16. Various Lanes Closed 17. Two Left Lanes Closed
- 18. Two right Lanes Closed

Item 6185. Truck Mounted Attenuators (TMA).

The total number of truck mounted attenuators (TMA) required when utilizing the traffic control standards are shown in the tables below.

TCP 1 Series	Scenario	Required TMA
(1-1)-18		1
(1-2)-18		1
(1-3)-18	A	1
(1 3) 10	В	2
(1-4)-18		1
(1-5)-18		1

TCP 2 Series	Scenario	Required TMA
(2-1)-18		1
(2-2)-18		1
(2-3)-23	A	1
()	В	2
(2-4)-18		1
(2-6)-18		1

General Notes General Notes Sheet D

Project Number: RMC 6466-65-001 Sheet 3E

County: Jack & Wise Control: 6466-65-001

Highway: SH114, ETC.

TCP 6 Series	Scenario	Required TMA				
(6-1)-12	A	1				
(0 1) 12	В	2				
(6-2)-12	All	1				
(6-3)-12	All	1				
(6-4)-12	A	1				
(0 1) 12	В	2				
(6-5)-12	A	1				
(* -) -2	В	2				
(6-6)-12	All	1 Per Lane				

Shadow vehicles equipped for truck mounted attenuators (TMA) for mobile and stationary operations must be available for use at any time as determined by the Engineer.

The Contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMA needed for the project for those times per plan requirements. Additional TMAs used that are not specified in the plans in which the Contractor expects compensation will require prior approval from the Engineer.

The Department may furnish TMAs and other traffic control devices for this contract at the Engineer's discretion, if it is in the best interest of the State.



CONTROLLING PROJECT ID 6466-65-001

DISTRICT Fort Worth HIGHWAY SH0114

COUNTY Wise

		CONTROL SECTIO	и јов	6466-6	5-001				
PROJECT ID			A00209317						
COUNTY				Wise		TOTAL EST.	TOTAL FINAL		
	HIGHWAY SH0114								
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL				
	500-6001	MOBILIZATION	LS	1.000		1.000			
	712-6008	JT / CRCK SEAL (RUBBER - ASPHALT)	LMI	392.580		392.580			
	721-6002 FIBER REINFORCED POLYMER PATCHING MATLS LB		LB	10.000		10.000			
	6001-6001	1-6001 PORTABLE CHANGEABLE MESSAGE SIGN DAY		50.000		50.000			
	6185-6002	TMA (STATIONARY)	DAY	58.000		58.000			



DISTRICT	COUNTY	CCSJ	SHEET	
Fort Worth	Jack & Wise	6466-65-001	4	

CLEANING AND/OR SEALING JOINTS AND CRACKS

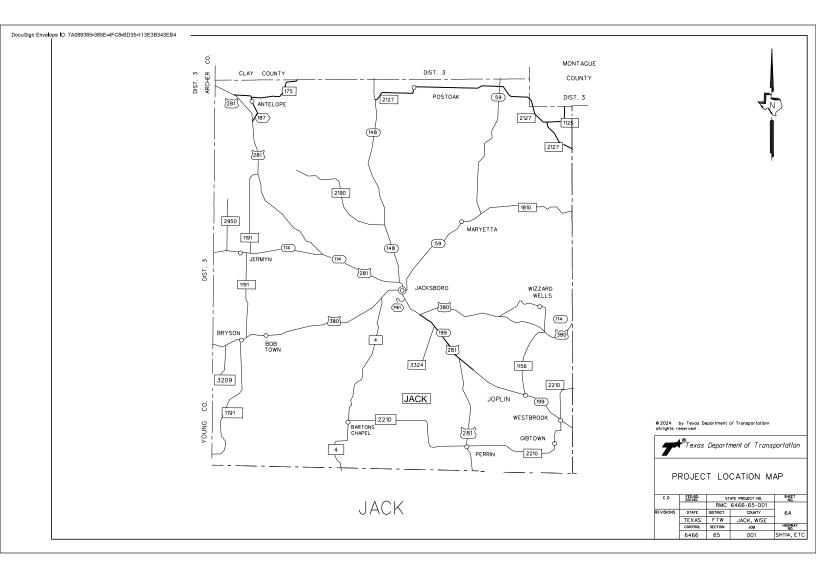
LOCATION	COUNTY	HIGHWAY	LIMITS FROM	LIMITS TO	REF FROM	REF TO	DFO FROM	рьо то	Centerline Miles	# of Lanes	712-6008 JT / CRCK SEAL (RUBBER - ASPHALT) (LMI)	721-6002 FIBER REINFORCED POLYMER PATCHING MATLS (LB)	6001-6001 PORTABLE CHANGEABLE MESSAGE SIGN (DAY)
1	JACK	U80281-KG	US0380	SH0199	252+1.454	258+.359	58.701	63.605	4.90	2.00	9.81		2
2	JACK	FM1125-KG	Montague County Line	FM2127	230-036	232_510	12.561	15.107	2.55	2.00	5.09		
3	JACK	FM175-KG	Clay County Line	LOOP 187	494+0.000	498+0.779	0	4.779	4.78	2.00	9.56		
4	JACK	FM2127-KG	SH148	FM1125	504	522+.21	0	16.186	16.19	2.00	32.37		
5	JACK	SL0187-KG	US 281	US 281	222-0.025	224+1.571	0	3.596	3.60	2.00	7.19		
-	IACK	SH0199	1180281	R M 514	514-68	514	0	0.7	0.70	4.00	2.80		2
7	WISE	FM1655-KG	Montague County Line	US 81/US 287	224	232	7.644	15.039	7.40	2.00	14.79		
8	WISE	FM1658-KG	US380 East	US380 West	524-725	530+.284	0	7.045	7.05	2.00	14.09		
9	WISE	FM2952-KG	FM 1810	PR1538	232-014	230⊤.10	0	4.130	4.10	2.00	8.31		
10	WISE	SH0114-KG	US 287 (Rhome)	FM 51	568+.140	570142	041.205	351.013	10.50	2.00	21.16		3
11	WISE	ГМ0730-KG	311 114	Terrent County Line	250-149	256+.142	20.251	25.616	6.27	4.00	25.06		
12	WISE	US 287(81)	Tarrant County Line	FM 407	254+.964	264+.024	62.922	71.46	8.54	4.00	34.15		4
13	WISE	US 287(81ag)	33.14307, -97.499657	South Bound Service Rd	252-488	252+.313	59.393	60.198	0.81	2.00	1.61		2
14	WISE	FM0051-KG	Parker County	FM 2048	264+.302	268+.067	55.003	57.254	2.25	2.00	4.50		
15	WISE	US0287	Montague County Line	RM 234	226	234+.2	33.765	41.7	7.94	6.00	47.61		5
16	WISE	11Sn287 NR Inside Lane	US380 Bridge	South of RU 81D (Passement Change)	242	247	50.5	33	4.50	1.00	4.50		2
17	WISE	US0287 SB Inside Lane	US 81 N/B (Pavement Change)	South of BU 81 D (Pavement Change)	242	247	50.5	55	4.50	1.00	4.50		2
18	WISE	US380 EB	0.2 mi West of CR2320	Denton County Line	58834	592	351	353.9	2.90	3.00	8.70	10.00	2
19	WISE	BS0101B	SH101/FM1810 Intersection	SH101	232	235	0	1.572	1.57	2.00	3.14		
20	WISE	SH0101-KG	BS0101B	Montague County Line	226	232	9.867	19	9.13	4.00	36.53		4
21	WISE	FM718	RM 546+.4 mi	Taurant County Line	546+.4	552	2.4	7.222	4.82	4.00	19.29		
22	WISE	FM0730-KG	Hale St	Beginning of Construction Zone	238	247	17.88	28.867	10.99	2.00	21.97		
23	WISE	FM0730-KG	Montague County Line	BNSF Rail Road	222	238	1.113	16.44	15.33	2.00	30.65		
24	WISE	FM2048 KG	PM0051	ГМ0730	526	543	0	6.486	6.49	2.00	12.97		
25	WISE	FM2127-KG	Jack County Line	FM1810	526	411	19.461	25 567	611	200	12.21		
				OTALS					154.01	63.00	392.58	10.00	28

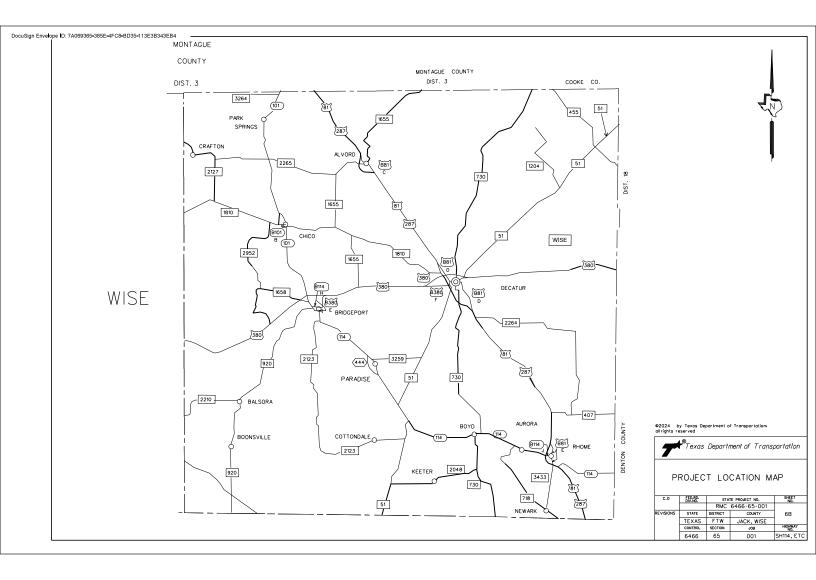
Note: Shoulders wider than 6ft are considered additional lanes.

Texas Department of Transportation

LIMIT SHEET

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- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction powement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirement shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- Geometric design of lone shifts and detours should, when possible, meet the
 applicable design criteria contained in manuals such as the American
 Association of State Highway and Transportation Officials (AMSHIO).
 "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway
 Design Manual" or engineering judgment.
- 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance worning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shallerect the necessary worning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BECIM ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate worning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standord Highway Sign Designs for Texas;" latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. Where highway construction or maintenance work is being undertoken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs so shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shallbe erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and EAD ROAD WORK NEXT X MILES, limits. For mobile operations, CSJ limit signs are not required.
- Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travellanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

- Workers on foot who are exposed to traffic or to construction equipment
 within the right-of-way shall wear high-visibility safety apparelmeeting
 the requirements of ISEA "American Notional Standard for High-Visibility
 Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard
 aperformance for Closs 2 or 3 risk exposure. Closs 3 garments should b
 considered for high traffic volume work areas or night time work.
- 2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

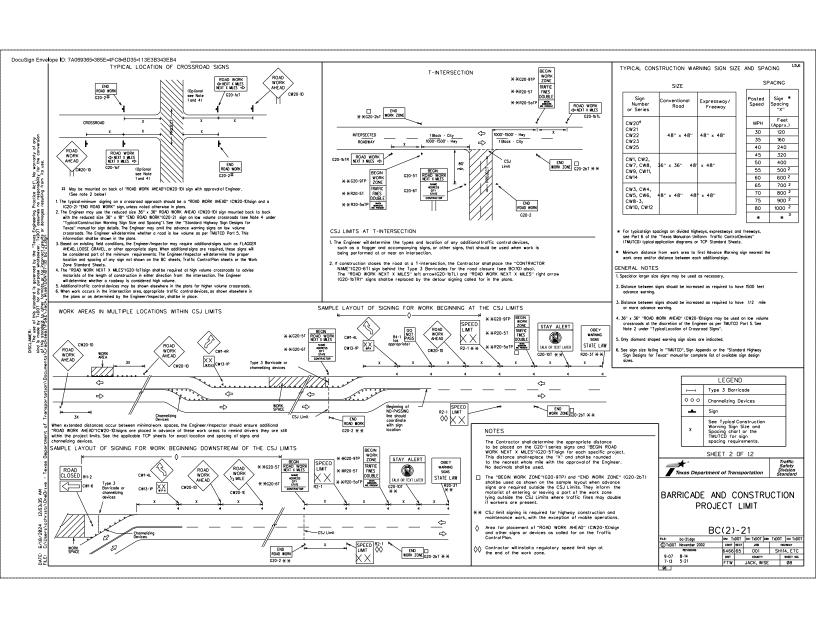
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

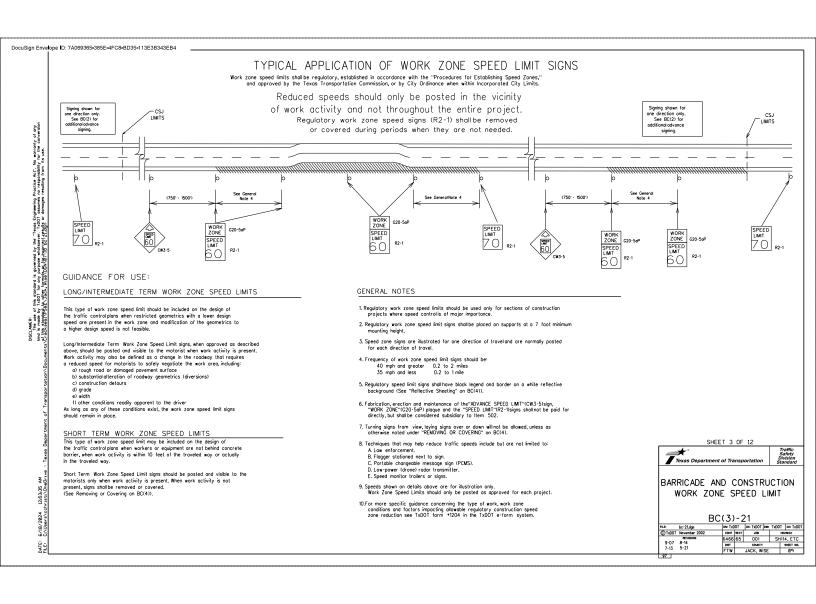
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
1
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

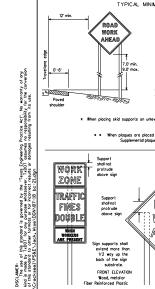
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC(1)-21

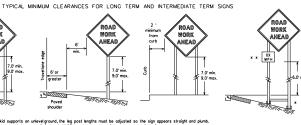
SHEET 1 OF 12

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REVISIONS
4-03 7-13
9-07 8-14
5-10 5-21

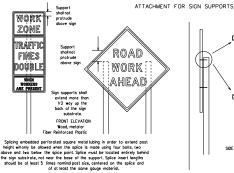








- x When plocing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.
 - x when plaques are placed on dual-leg supports, they should be attached to the upright nearest the travelione Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.



Attachment to wooden supports will be by bolts and nuts or screws. Use TNDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT he allowed Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

STOP/SLOW PADDLES

1. STOP/SQ.OW poddes ore the primary method to control traffic. by floggers. The STOP/SQ.OW podde size should be 24" x 24". If you have been seen to be 25" x 24". If you have been seen to be 25" x 24". If you have been map as citized been seen to be 25" and 10" also medican length of 6" to the bottom of the sign.

Any fights incorporated into the STOP SQ.OW podd society be os specifically described in Section 66.03 that Square provides in the STOP SQ.OW podd society be os specifically described in Section 66.03.





뜨립						
. 8	SHEETING REQUIREMENTS (WHEN USED AT NIGHT)					
DATE: 6/18/2024 12 FILE: Gi\Users\cchri	USAGE	COLOR	SIGN FACE MATERIAL			
	BACKGROUND	RED	TYPE B OR C SHEETING			
	BACKGROUND	ORANGE	TYPE B _{PL} OR C _{PL} SHEETING			
	LEGEND & BORDER	WHITE	TYPE B OR C SHEETING			
	LEGEND & BORDER	BLACK	ACRYLIC NON-REFLECTIVE FILM			

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

WI HIM THE PROJECT LIMITS
Permonent signs or used to give notice of traffic less or regulations, call attention to conditions that ore potentially horordona to traffic operations, here rused estignation, destinations, destinat

SIDE ELEVATION

- the rodicity contains or ortices for covering gray guide signs see that the containing of the containing the co
- Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

- CENERAL NOTES FOR WORK ZONE SONS

 1. Contractor stellarstand and maintain signs in a straight and plumb condition and/or as directed by the Engineer.

 3. Borricodes shallow be used as sign supports.

 4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, worn, and guide the translerapidic stelly introps the sent strain. By glans and the installed in accordance with the plans are in the "Standard lighway Sign Designs for Texas" (SSSD). The Engineer respector may require the Contractor to furnish other sont zone signs that one shown in the "MultiDo but may have been omitted from the plans," any variation in the plans shallbe documented by written appearement between the influence that inclinate any standard lighway Sign Designs for Texas" (SSSD). The Engineer respector may require the Contractor to furnish other sont zone signs that one shown in the "MultiDo but may have been omitted from the plans," but variation in the plans shallbe documented by written appearement between the influence contractors (Responsible Person, Alchanges must be documented in writing before being implemented. This can include documenting the changes in Responsible for influence standard the sign suggest of the standard standard standard the sign suggest in accordance with the manufacturer's (Cartic Clarifor them is a question to the Engineer can verify the correct procedures are being followed.

 The Contractor is responsible for installing signs on approved support and responsible given signs standard standard the sign suggest or accordance standard company to open and an accordance standard the sign suggest of procedure and standard standard the sign suggest of suggest and manufacturer's installation recommendation as the Engineer can verify the correct procedures are being follower. Desponsible for installation recommendation as the Engineer of the segment of the sign substantion recommendation as the Contractor shall be signed.

 The Contractor is responsible for

- 9. The Contraction delineated demanded acceptable have or damaged acceptable spaces about the spaces.

 QUARTION DE MONIC Less definited by the "Tarson Managed huildrens" Intiffic. Control policytics" (2016.)

 1. The types of sign supports, sign manufolp heightline size of signs, and the type of sign supports sign manufolp heightline size of signs, and the type of sign supports sign manufolp heightline size of signs, and the size of policytics of one of the hype of work being preferred. The representations is responsible for securing the sign support, sign manufolp height and substrate meets manufacturer's recommendations in regard to controlled here is supported. The production of each requirement that the support is substrated to the sign of the type of the support sign of the support sign of the sign of the support sign of the suppo

- SIZE OF SIGNS
 1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer
- Set our stories

 The Coliticative and furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Chyprem.

 SCH_SIGNTRATE

 SEN_SIGNTRATE

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 SEN_SIGNTRATE

 The Coliticative shows the sign substrate is instabled in accordance with the mounfacturer's recommendations for the type of sign apport to a large shown and the sign such face (TCC) Gits a scot substrate file to one of the sign such the CRICTO dist as does whetered the total control of the views.

 2. "Meent" type materials are NOT on approved sign substrate, regardless of the tightness of the the views of the sign such substrates, regardless of the tightness of the views.

 3. **Meeoder individualisy powers biorized form 2 or more pieces shallower one more pieced decide. 12" thick by 6" wide, total restrict the back of the sign using excellents to the back of the sign using excellents to the back of the sign using excellents. The control is the sign of the sign using excellent to the back of the sign using excellent to the sign using excellent t

- S. Unding streams, incoming with the control of the

- b. Libect lates on other advance material shall NUT be attheed to a sign face.

 SCH SUPPORT INVESTIGATION TO CONTRICT A STATE OF THE ADVANCE AND ADVANCE.

 Line sign appear to expain the use of weight to keep from turning over, the use of smither than the sign appear to expain the sign appear to place on stopes to

FLAGS ON SIGNS

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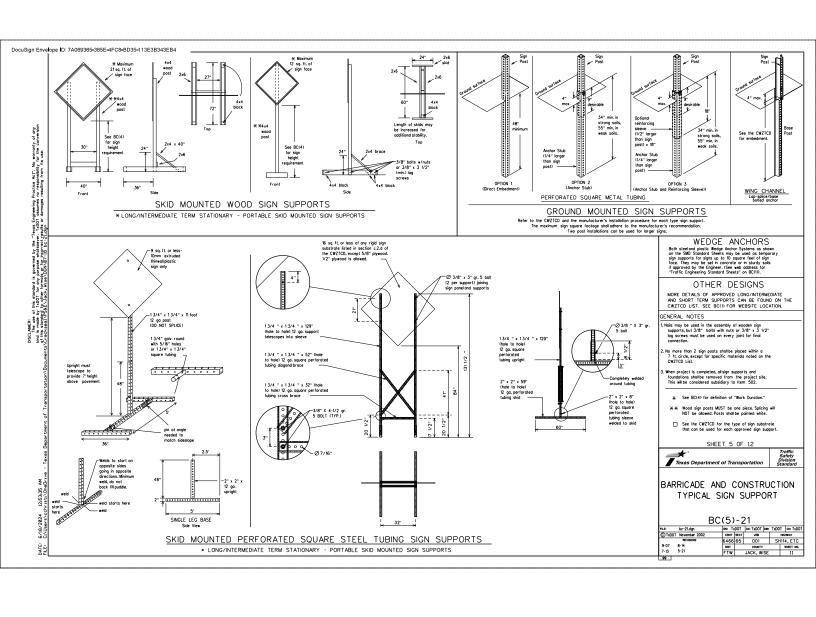
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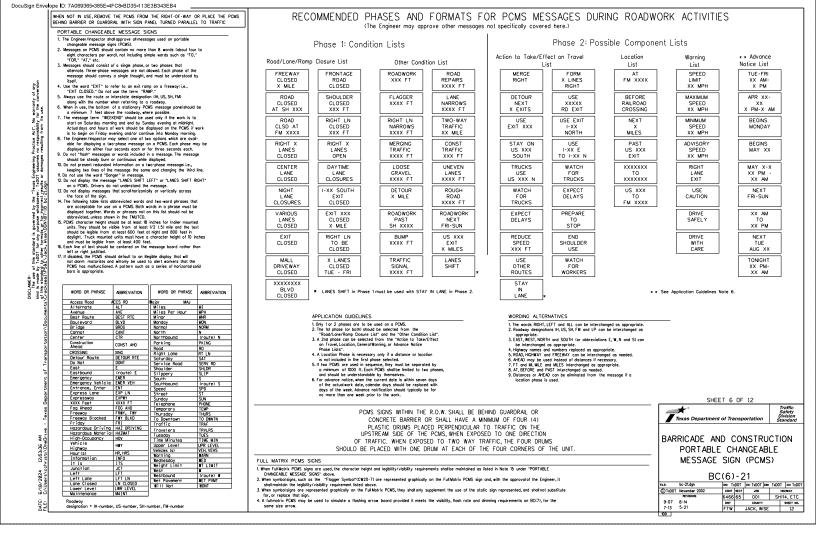
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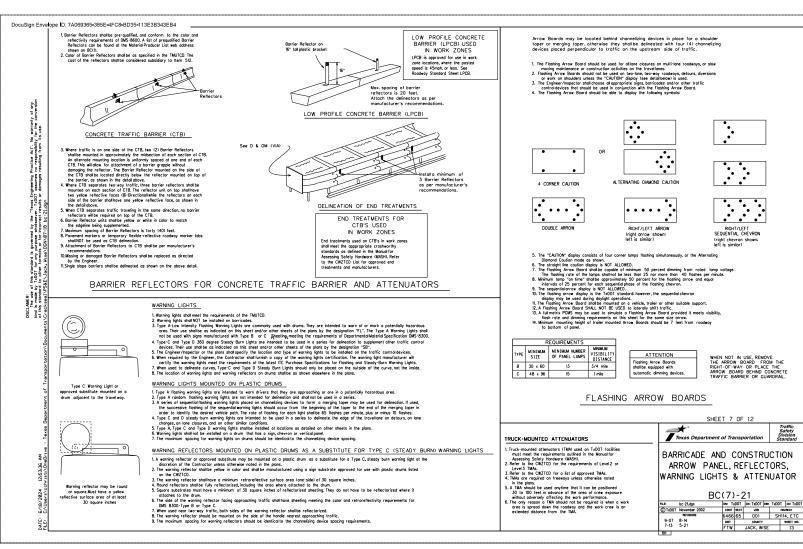
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GENERAL DESIGN REQUIREMENTS

mentionace must be on approvise overes.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plostic drums shall meet the following requirements:

1 Prest, and the state of the price design time though of the drum shall be the top protein and the "bost" shallbe the bottom. It is not present to the top protein and the "bost" shallbe the bottom. It is not present a protein and the "bost" shallbe the bottom. It is not present a sportise from the bost when immated by a which the rowing not a speed of 20 URH or greater but prevents accident desparing order for existence created by possing vertices.

3. Rossic drums shallbe constructed of spinlewight healths, and single prices possible crown so characteristics devices or sign supports.

4. Drums shall present a profile that is a minimum of 18 inches in width at the 35 inches that when the shall be a shall be a

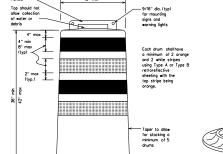
RETROREFLECTIVE SHEETING

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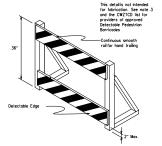
The absolute studied for use on and shall others to the down stress where the studied for use on and shall others to the down stress such that, upon vehicular impact, the shelting shall entermon othered in process and extra for a defendability cracking, or loss of retro-effectivity other than that loss due to obrasion of the sheeting surface.

BALLAST

1. Urboildosted boses shalbe large enough to hold up to 50 bs. of sand. The boss, when filled with the bollost material, should weigh between the boss of sand the boss of sand to three sandbags separate from the boss, sord in a sond-filled position of sandbags wilbe allowed, however height of sandbags door power and sarfoce may not exceed 2 inches of sandbags door sandbags albe disead, however height of sandbags door some sandbags and sandbags wilbe allowed, however height of sandbags door some sandbags and san







DETECTABLE PEDESTRIAN BARRICADES

DETECTABLE PEDESTRIAN BARRICADES

1. When existing pedestrian Teclities are disrupted, closed or
activation of the control of





Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.

Chevrons and other work zone signs with an orange backgroun shallbe manufactured with Type B or Type C Orange, sheeting meeting the color and retrareflectivity requirements of DMS-800, "Sign Face Material," unless otherwise specified in the plans.

3. Vertical Panels shall be manufactured with arange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lone.

4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.

Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.

7. Chevrons may be placed on drums on the outside of curves, on merging topers or on shifting topers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.

R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.



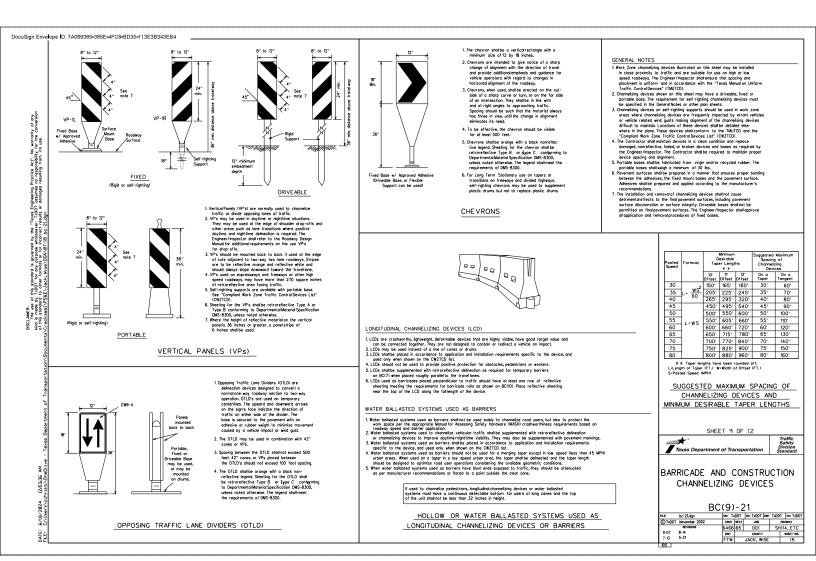
Traffic Safety Division Standard

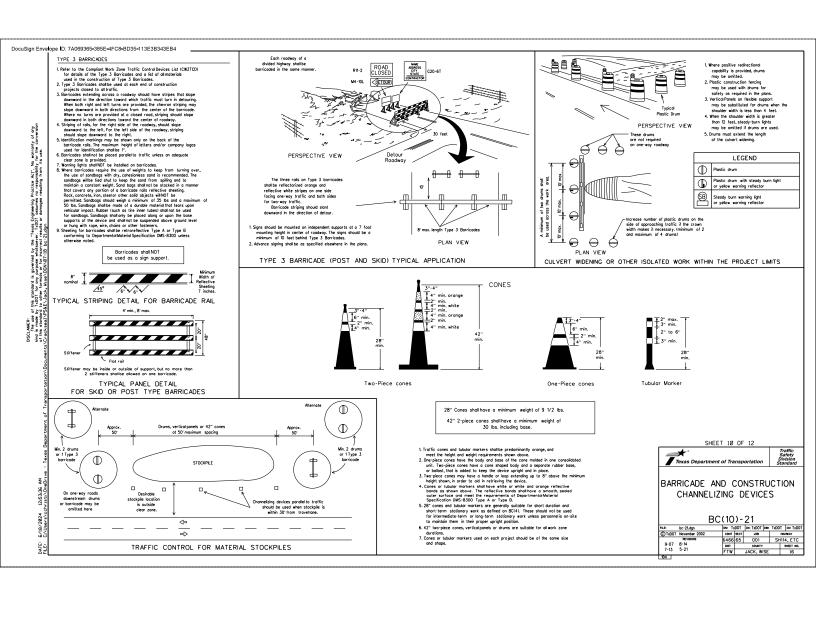


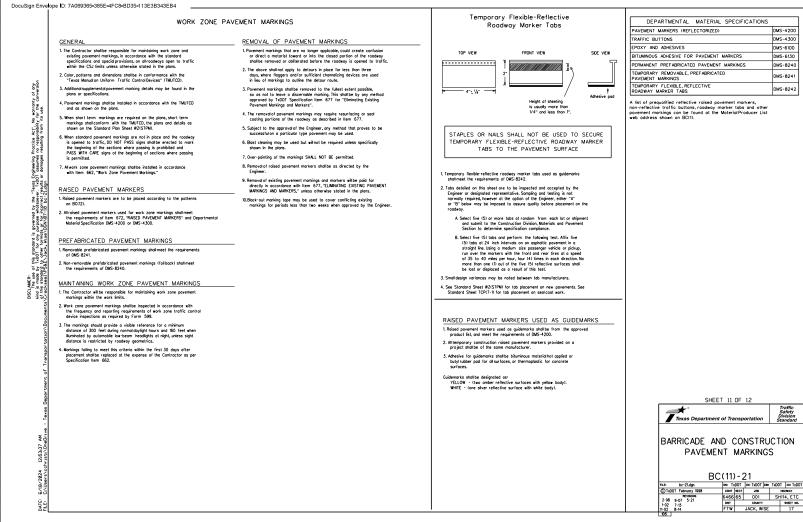
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

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DMS-4200

DMS-4300

DMS-6100

DMS-6130

DMS-8240

DMS-8241

DMS-8242

