

OKLAHOMA DEPARTMENT OF TRANSPORTATION		
DESCRIPTION	REVISIONS	DATE
△ REV. DESCRIPTION		02/23/2021

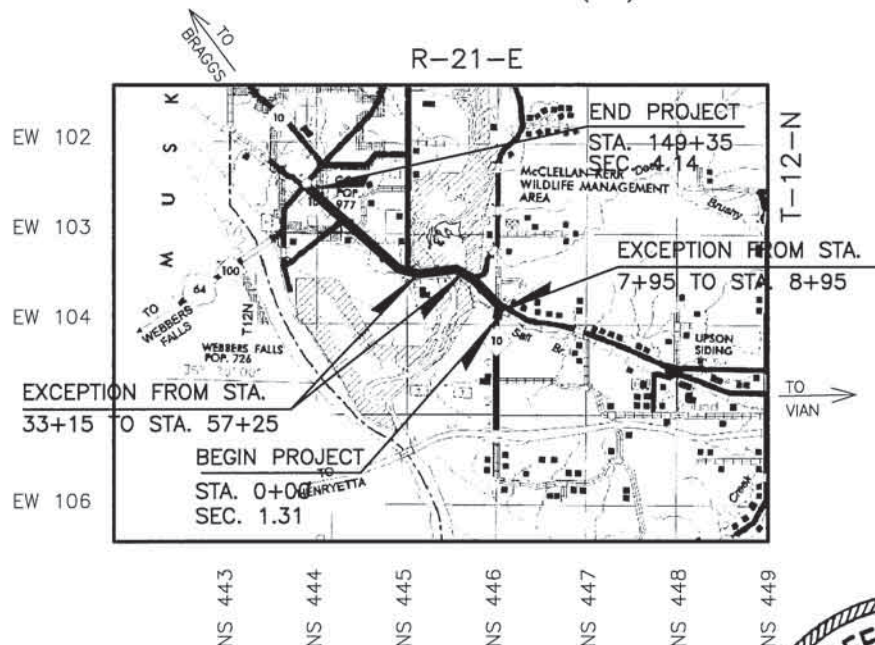
STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED STATE HIGHWAY

PROJECT NO. STP-268C(074)3P
PAVEMENT REHABILITATION (P.C. CONCRETE) △
SH-10 & US-64

SEQUOYAH COUNTY

CONTROL SECTION NO. 10-68-29
STATE JOB NO. 33833(04)



DESIGN DATA

AADT 2019 = 2,486
FLEX ESALS = 1.08M

ROADWAY LENGTH ——— 12,425.00 FT. 2.353
BRIDGE LENGTH ——— 0.00 FT. 0.00
PROJECT LENGTH ——— 2.353

EQUATIONS : NONE

EXCEPTIONS : STA. 7+95 TO STA. 8+95 (RAILROAD)
STA. 33+15 TO STA. 57+25



2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION
GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION,
FEDERAL HIGHWAY ADMINISTRATION, JANUARY 4, 2010.

	PREPARED BY:	
	OKLAHOMA DEPARTMENT OF TRANSPORTATION	
	DIVISION ONE - MUSKOGEE	
	MICHAEL K. KELLY, P.E. OKLA. REG. NO. 17710	
DATE 2/23/2021		

PROJECT NO. STP-268C(074)3P

SHEET NO. 0001

SEQUOYAH COUNTY

INDEX OF SHEETS

0001 TITLE SHEET
 0002 INDEX OF SHEETS AND ODOT STANDARD DRAWINGS
 0003 TYPICAL SECTION AND PAY QUANTITIES
 0004 CABLE BARRIER TYPICAL SECTION

- △ AE01-AE02 ENVIRONMENTAL NOTES
 AR01-AR02 PAY ITEM AND GENERAL CONSTRUCTION NOTES
 △ AR03 TRAFFIC NOTES
 △ AR04 TRAFFIC SAFETY NOTES
 △ T001-T003 CONTRACTOR SIGNING DETAILS

THE FOLLOWING OKLAHOMA DEPARTMENT OF TRANSPORTATION
 STANDARDS WILL BE REQUIRED TO CONSTRUCT THIS PROJECT:

2009 ROADWAY STANDARDS

LECS-4-2
 PDT-1-3
 LTU-4-0
 PR-3-0
 PCPR-3-2

2009 TRAFFIC SIGNING

PM1-1-03
 PM4-1-02
 PM5-1-00
 PM6-1-00

2009 TRAFFIC CONTROL

TCS1-1-01
 TCS2-1-00
 TCS3-1-01
 TCS4-1-01
 TCS5-1-00
 TCS6-1-02
 TCS7-1-02
 TCS9-1-01
 TCS10-1-00
 TCS11-1-01
 TCS13-1-00
 TCS14-1-00
 TCS15-1-00
 TCS18-1-01
 TCS19-1-01
 TCS20-1-00
 TCS21-1-02

SH-10 & US-64

INDEX & STANDARDS

Design	M.K.	1/20
Detail	M.K.	1/20
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Filename:

Scale 1"= NA

Project No. 33833(04)

Sheet No. 0002

SUMMARY OF PAY QUANTITIES

0100 ROADWAY

33833(04)

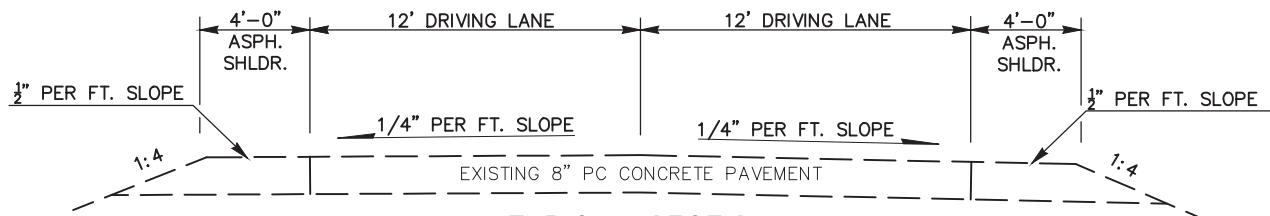
ITEM NO.	CODE NO.	DESCRIPTION	UNIT	QUANTITY
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE (E) (R-18)(1)	TON	50
414(E)	0225	FULL DEPTH P.C. CONCRETE PATCHING (PLACEMENT ONLY)	SY	1,149
414(G)	5275	P.C. CONCRETE FOR PAVEMENT (2)	CY	287
415	6300	CONCRETE JOINT SEALING	LF	32,565
416	0100	DOWEL BAR RETROFIT	EA	6,680
509(A)	0319	CLASS AA CONCRETE	CY	135
425	5195	DIAMOND GRINDING CONCRETE PAVEMENT	SY	33,400

SUMMARY OF PAY QUANTITIES

0300 TRAFFIC

33833(04)

ITEM NO.	CODE NO.	DESCRIPTION	UNIT	QUANTITY
628(B)	5125	HIGH-TENSION CABLE BARRIER (TL-4) (TP-44,45,46,47,48,49,50)	LF	1,935
628(C)	5110	END ANCHORS (TP-44,52)	EA	6
628(E)	5175	CABLE BARRIER TENSION METER (TP-51)	EA	1
805(A)	8702	REMOVAL OF CLASS C PAVEMENT MARKERS	EA	121
856(A)	8530	TRAFFIC STRIPE (MULTI-POLYMER)(4" WIDE) (3)	LF	39,575
880(A)	8812	ARROW DISPLAY (TYPE C) (TC-26,84)	SD	60
880(B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 SF (TC-26,33,84)	SD	690
880(B)	8821	CONSTRUCTION SIGNS 6.26 TO 15.99 SF (TC-26,33,84)(4)	SD	810
880(B)	8824	CONSTRUCTION SIGNS 16.0 TO 32.99 SF (TC-26,30,33,84)	SD	960
880(C)	8842	CONSTRUCTION BARRICADES(TYPE III) (TC-26,84)	SD	300
		(DELETED)		
880(E)	8860	WARNING LIGHTS(TYPE A) (TC-26,84)	SD	450
880(F)	8878	DRUMS (TC-26,84)(SP-16)	SD	1,020
880(G)	8890	CHANNELIZER CONES (TC-26,84)	SD	4,860
880(I)	8902	FLAGGER (TC-58,84)(5)	SD	60
882(A)	8306	PORTABLE CHANGEABLE MESSAGE SIGN (TC-52,84,85)	SD	148



TYPICAL SECTION
STATION 0+00 TO STATION 7+95
STATION 8+95 TO STATION 33+15
STATION 57+25 TO STATION 149+35

SCHEDULE OF FULL DEPTH PATCHING

LANE	6'X12' PANEL	8'X12' PANEL	10'X12' PANEL	15'X12' PANEL
VARIES	7	5	0	52
Total	7	5	0	52

SH-10 & US-64

TYPICAL SECTION & PAY QUANTITIES

Design	M.K.	1/20
Detail	M.K.	1/20
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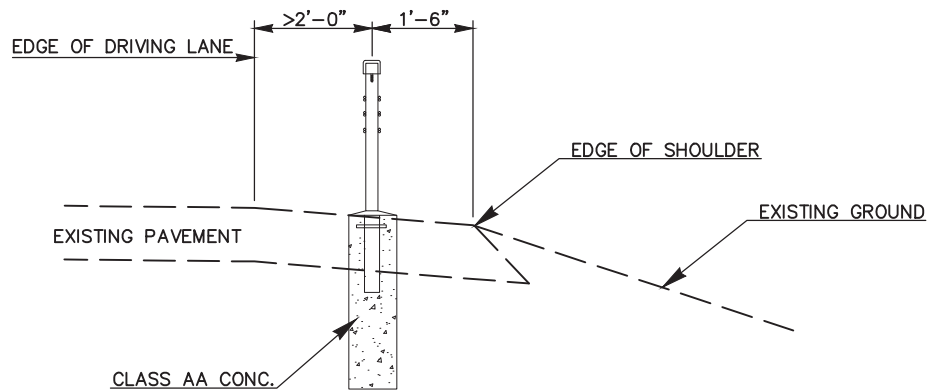
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Project No. 33833(04)

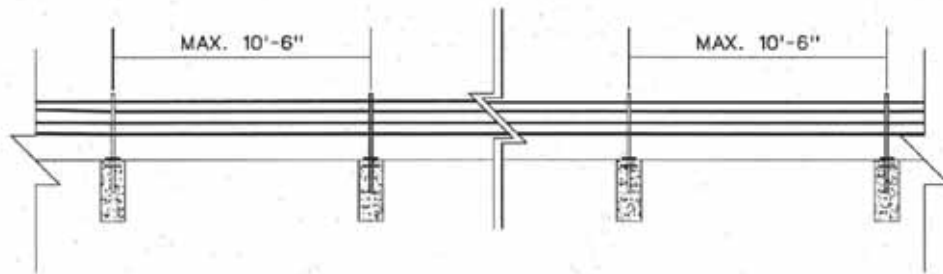
Sheet No. 0003



TYPICAL CABLE BARRIER SECTION
 STA. 13+65 TO STA. 20+45 LT.
 STA. 24+15 TO STA. 31+00 LT.
 STA. 24+85 TO STA. 30+55 RT.

NOTES:

CABLE BARRIER BASE SLOPE SHALL MATCH THE EXISTING SHOULDER SLOPE. BARRIER BASE SLOPE SHALL NOT EXCEED 3:1.



MINIMUM REQUIREMENTS OF CABLE BARRIER SYSTEM:

1. FULLY COMPLIES WITH NCHRP-350 TEST LEVEL 4 (TL-4).
2. 4 PRE-STRETCHED HIGH TENSION WIRE ROPES.
3. MAXIMUM OF 8' DEFLECTION
4. MAXIMUM OF 10'-6" POST SPACING.

SH-10 & US-64
 CABLE BARRIER
 TYPICAL SECTION

Design	M.K.	1/20
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Project No. 33833(04)

Sheet No. 0004

Earthwork Note: The Contractor must ensure that any material incorporated into the project is free of any hazardous, industrial or contaminated waste, refer to sub-sections 106.01 and 202.02 of The Standard Specifications for Highway Construction.

Imported material (eg. borrow) – If material is imported to the project and at any point the material is determined by the Engineer to include any type of unacceptable contamination, the material may require removal, in whole, or in part. If removal is required, then the initial placement, removal and proper disposal of this material shall be the sole responsibility of the Contractor. The disposal of unacceptable material shall be approved by the Engineer, refer to sub-section 107.15 of The Standard Specifications for Highway Construction.

To assist the Contractor, the “Off Project Facility/Borrow Site Hazardous Materials Questionnaire” is provided on the Department’s web site:

<https://oklahoma.gov/content/dam/ok/en/odot/documents/ok-gov-docs/programs-and-projects/environmental/hazard-questionnaire-2016.pdf>

This questionnaire is provided for the convenience of the Contractor so that a clearer understanding of the characteristics of the proposed site/material is achieved. Completion and submittal of this form to the Engineer does not excuse the Contractor from providing materials that are free of hazardous and industrial composition in accordance with sub-sections 106.01 and 202.02 of the Standard Specifications For Highway Construction.

Non-Compliance: Failure to implement the commitments specified in the Plan Notes can result in non-compliance issues on the project. Work activities may be suspended on the project, for an undetermined duration, while working with regulators to bring the project back into compliance. The contractor will not be compensated for time lost.

Water Quality Conservation: Appropriate Best Management Practices to minimize impacts from storm water discharges and sedimentation in streams, as established by the Oklahoma Department of Environmental Quality, shall be conscientiously implemented throughout the proposed construction periods, in order to minimize any potential impacts to any listed species. The effectiveness of erosion controls shall be maintained for the duration of construction activities. Hazardous materials, chemicals, fuels, lubricating oils, and other such substances shall be stored at least 100 feet outside of the ordinary high water mark (OHWM). Refueling of construction equipment shall also be conducted at least 100 feet from the OHWMs. Sediment and erosion controls shall be installed around staging areas to prohibit discharge of materials from these sites. Construction waste materials and debris shall be stockpiled at least 25 feet outside of the OHWMs, and these materials shall be removed and disposed of properly following completion of the project. Preventative measure must be taken to prohibit the discharge of contaminants into any surface waters.

American Burying Beetle Note: The American Burying Beetle is a large carrion burying beetle that occurs within the project limits. No artificial lighting shall be used during construction without prior consultation with USFWS thru ODOT Environmental Programs Division. DO NOT PROCEED WITH ANY USE OF ARTIFICIAL LIGHTING WITHOUT WRITTEN CONSENT FROM ODOT ENVIRONMENTAL PROGRAMS DIVISION. Carcasses and all food trash shall be removed from the permanent and temporary right-of-way throughout the duration of project activities.

Bat Lighting Note: All temporary lighting, if used, will be directed away from suitable bat habitat during the active season for bats (April 1- November 15). If any permanent lighting is installed or replaced, downward-facing full cut-off lens lights shall be installed and directed away from wooded areas and streams.

SH-10 & US-64

ENVIRONMENTAL NOTES

Design	M.K.	9/20
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Bald Eagle Note: The Bald Eagle nesting season in Oklahoma extends from September 16, through May 31. A Bald Eagle survey was completed for this project in **February 2021**. No nests were observed within the expected impact area. Survey results are valid only for the nesting season in which the survey was performed. If construction activities have begun, but are not completed by September 16, 2021 the Resident Engineer shall contact the ODOT Biologist. The ODOT Biologist shall schedule any additional surveys that may be required as soon as leaves fall off the trees (approximately November 1). Because no nests were observed during the initial survey, and it can take a pair of eagles one to three months to construct a new nest, if construction activities have begun before October 31, 2021 they may continue while additional nest search surveys are conducted after leaf-off. If construction activities have not begun by October 31, 2021 a new nest survey shall be completed by the ODOT Biologist before construction activities can begin. Nest search surveys can only be conducted when leaves are not on the trees typically between December 1st and February 28th. If nests are observed, up to a 660 foot no-work buffer shall be placed around the nest. The exact distance of the buffer zone shall be established by the ODOT Biologist in consultation with US Fish and Wildlife Services. If the buffer cannot be maintained, all clearing, external construction and landscaping activities within the buffer shall be conducted between June 1 and September 15 (outside the nesting season).

<u>Species</u>	<u>Seasonal Restriction Period</u>
Bald Eagle	September 16 – May 31

Offsite Avoidance Note: Locations outside the project area in the following area must not be utilized for borrow, equipment staging, haul roads, spoil dumps or any off-site project-related activity.

T12N R21E:

Section 16: SE¼ NW¼ and

Section 16: NE¼ SE¼

SH-10 & US-64

ENVIRONMENTAL NOTES

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Sheet No. AE02

PAY QUANTITY NOTES

(R-18) ESTIMATED AT 160 LBS. PER CU. FT.

- 1 ESTIMATED QUANTITY TO BE USED IN A MANNER APPROVED BY THE ENGINEER.
- 2 EARLY STRENGTH CONCRETE MUST BE USED MEETING THE REQUIREMENTS OF PAY ITEM 513(E) 6030. A STRENGTH OF 3000 PSI IS REQUIRED WITHIN 4 HOURS. ALL CONCRETE MUST MEET THE STRENGTH REQUIREMENT PRIOR TO OPENING THE LANE TO TRAFFIC. ONLY TEMPORARY LANE CLOSURES ARE ALLOWED ON THIS PROJECT.
- 3 QUANTITY INCLUDES 25,050 L.F. OF WHITE, 2,000 L.F. OF YELLOW AND 12,525 L.F. OF CONTRAST (BLACK/WHITE) MULTI-POLYMER STRIPE.
- △ 4 QUANTITY SHOWN INCLUDES THE "CONTRACTOR SIGNS" AND "CONTRACTOR SUPPLEMENTAL PLAQUES" WHICH ARE TO BE USED IN THE PLACE OF THE WING BARRICADES WHICH ARE INDICATED ON THE STANDARD DRAWING TCS7-1-02. THESE SIGNS ARE DESCRIBED ON SHEETS T001-T003.
- △ 5 THIS PROJECT MAY REQUIRE FLAGGING OPERATIONS LIMITED TO A DISTANCE OF 1,500 FEET OR LESS, AS DIRECTED BY THE ENGINEER. NO LANES OF TRAFFIC WILL BE CLOSED OVERNIGHT.

GENERAL CONSTRUCTION NOTES

- △ 2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, JANUARY 4, 2010.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING SECTION LINE ROADS

THE CONTRACTOR SHALL REMOVE ANY VEGETATION AND SOIL ENCROACHING THE EDGE OF THE EXISTING PAVEMENT IN PREPARATION OF THE PROPOSED SURFACING AS DIRECTED BY THE ENGINEER. COSTS TO BE INCLUDED IN OTHER ITEMS OF WORK.

FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-1 (LATEST REVISION) SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

SH-10 & US-64 PAY ITEM NOTES & GENERAL CONST. NOTES		Design	M.K.	1/20
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			Sheet No.	AR01

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.

THE PRICE BID ON ALL ITEMS SHALL INCLUDE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS.

THE CONTRACTOR SHALL TEMPORARILY RELOCATE PERMANENT TRAFFIC CONTROL DEVICES TO ACCOMMODATE CONSTRUCTION OPERATIONS. DEVICES SHALL BE MAINTAINED AND REPLACED IN THEIR ORIGINAL POSITION PROMPTLY AFTER OPERATIONS PERMIT. ANY DAMAGE TO EXISTING SIGNS, GUARDRAIL, HEADWALLS, CURBS, DELINEATORS, OR OTHER HIGHWAY APPURTENANCES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND AS APPROVED BY THE ENGINEER.

ANY SIGNS AND DELINEATORS WHICH ARE REMOVED DURING CONSTRUCTION OF THIS PROJECT WILL BE STORED IN A PROTECTED AREA APPROVED BY THE ENGINEER UNTIL SUCH TIME THAT THEY ARE RESET BY THE CONTRACTOR. COST OF THIS WORK SHALL BE INCLUDED IN OTHER

THE CONTRACTOR SHALL COMPLY WITH TRAFFIC STANDARD TCS1-1-01.

MOBILIZATION AND STAKING PAY ITEMS ARE NOT INCLUDED. COSTS TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL REMOVE AND RESET MAILBOXES AS NECESSARY AND ARE TO BE MAINTAINED IN AN UPRIGHT POSITION AND ACCESSIBLE TO MAIL CARRIERS VEHICLE DURING CONSTRUCTION. UPON COMPLETION OF ALL ITEMS, THE CONTRACTOR SHALL SECURE MAILBOXES IN STABLE, UPRIGHT POSITION AND LEAVE IN AS GOOD OR BETTER CONDITION THAN EXISTED PRIOR TO THE START OF WORK. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

SH-10 & US-64

GENERAL CONST. NOTES

Design	M.K.	1/20
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Sheet No. AR02

TRAFFIC NOTES

- (TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT.

ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE 'A' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.

- (TC-27) WHEN A PILOT CAR IS REQUIRED ON TWO LANE / TWO-WAY ROADWAYS, THE CONTRACTOR SHALL USE A PILOT CAR WITH A LICENSED OPERATOR. THE PILOT CAR OPERATOR SHALL BE IN RADIO CONTACT WITH PERSONNEL IN THE TEMPORARY TRAFFIC CONTROL ZONE. MAXIMUM SPEED OF THE PILOT CAR THROUGH THE WORK ZONE AREA SHALL BE 25 MPH. FULL COMPENSATION FOR FURNISHING AND OPERATING THE PILOT CAR (INCLUDING DRIVER, RADIO, AND ANY OTHER EQUIPMENT OR LABOR REQUIRED) SHALL BE INCLUDED IN THE PRICE BID OF PILOT CAR.

PILOT CAR SHALL BE APPROVED VEHICLE, SHOULD CARRY THE CONTRACTOR'S INSIGNIA, AND BE EQUIPPED WITH SIGNS READING "PILOT CAR—FOLLOW ME" MOUNTED A MINIMUM OF ONE (1) FOOT ABOVE THE TOP OF THE VEHICLE AND CLEARLY VISIBLE FROM BOTH DIRECTIONS.

- (TC-30) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 16.00 S.F. AND 32.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.

- (TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION)

THE MANUFACTURER SHALL FURNISH A TYPE 'D' CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.

- (TC-52) ANY USED CHANGEABLE MESSAGE SIGN TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT.

- (TC-58) INCLUDED IN THIS ITEM IS THE COST OF PROVIDING TWO (2) FLAGGERS FOR A 24 HOUR PERIOD OF TIME. DURING NON-DAYLIGHT HOURS THE FLAGGER STATIONS SHALL BE ADEQUATELY LIGHTED TO PROVIDE A SAFE WORK AREA FOR FLAGGERS. COST OF THIS LIGHTING WILL BE INCLUDED IN THE PRICE BID FOR FLAGGER.

- (TC-84) 60 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION

- (TC-85) THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS. FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT:
<http://www.okladot.state.ok.us/traffic/qpl/index.php>

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TRAFFIC SAFETY NOTES

Design	M.K.	1/20
Detail	M.K.	1/20
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TRAFFIC SAFETY NOTES

- (TP-44) INCLUDED IN THIS PAY ITEM WILL BE TWO (2) DAYS OF TRAINING FROM THE MANUFACTURER'S REPRESENTATIVE FOR MAINTAINING WIRE ROPE SAFETY FENCE SYSTEM. THE TRAINING SESSION(S) SHALL INCLUDE TRAINING TO PERTINENT ODOT AND LOCAL EMERGENCY PERSONNEL. PARTICIPANT SELECTION AND TRAINING LOCATION SHALL BE APPROVED BY THE ENGINEER.
- (TP-45) MANUFACTURER TO BE USED FOR INSTALLATION OF SOCKETED CABLE BARRIER SYSTEM. ALSO, AN ADDITIONAL 100 POSTS AND POST ACCESSORIES (CAPS, PLASTIC HARDWARE, GROUND COVER, ETC.) SHALL BE DELIVERED TO THE ODOT MAINTENANCE FACILITY IN SALLISAW, OKLAHOMA.
- (TP-46) CABLE WILL BE MEASURED FROM THE BEGINNING OF WIRE ROPE CABLE TO END OF WIRE ROPE CABLE.
- (TP-47) ALL POSTS SHALL HAVE CAPS WHICH SHALL BE AFFIXED TO THE POST WITH A DURABLE LIQUID ADHESIVE, SUCH AS LIQUID NAILS. EVERY FIFTH POST SHALL BE DELINEATED IN EACH DIRECTION WITH RETROFLECTIVE SHEETING MEETING SPECIFICATION ASTM D-4956 TYPE VII, VIII, OR IX (MIN. 7 SQ. IN. YELLOW)
- (TP-48) IF THE SYSTEM POSTS FALL ON THE TOP OF A CROSS DRAIN BOX OR OTHER CONFLICTING UNDERGROUND STRUCTURE, SPECIAL POST DESIGN WILL BE REQUIRED. CABLE MANUFACTURER SHALL PROVIDE THE POST DESIGN TO THE ENGINEER FOR APPROVAL. ALL INSTALLATIONS MUST BE IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATION.
- (TP-49) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE LETTER OF APPROVAL FROM THE F.H.W.A. INDICATING THE INSTALLED CABLE BARRIER SYSTEM MEETS ALL TEST CRITERIA OF NCHRP-350 TEST LEVEL 4 (TL-4), AND SUBMIT IT TO THE RESIDENT ENGINEER AND THE CHIEF TRAFFIC ENGINEER.
- (TP-50) TURNBUCKLES SHALL BE NO CLOSER THAN 1' TO A CABLE POST, IF IT INTERFERES WITH THE TENSIONING OPERATION OF THE SYSTEM. THE HEIGHTS FOR ALL ROWS OF CABLES SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS. THE BOTTOM CABLE MUST BE WITHIN THE TOLERANCE LIMITS RECOMMENDED BY THE MANUFACTURER.
- (TP-51) THE TENSION METER SHALL BE OF THE TYPE RECOMMENDED BY THE MANUFACTURER OF THE CABLE BARRIER SYSTEM PROVIDED, AND SHALL BE APPROVED BY THE ODOT TRAFFIC ENGINEERING DIVISION. IT SHALL ALSO BE NEW, CALIBRATED, FUNCTIONAL, AND CAPABLE OF READING THE TENSION ON THE CABLE BARRIER SYSTEM TO WITHIN THE MANUFACTURER'S RECOMMENDED TOLERANCES. THE DEVICE SHALL ALSO BE DEMONSTRATED BY THE INSTRUCTOR(S) ON HOW TO OPERATE THEM AND PROVIDE OTHER HELPFUL INFORMATION TO THE PARTICIPANTS. IT SHALL BE DELIVERED TO THE ODOT MAINTENANCE FACILITY IN SALLISAW, OKLAHOMA.
- (TP-52) PRICE BID FOR THIS ITEM INCLUDES A SOIL REPORT TO BE PROVIDED BY THE CONTRACTOR TO THE CABLE MANUFACTURER INDICATING ALL NECESSARY SOIL INFORMATION REQUIRED FOR THE MANUFACTURER TO DESIGN POST FOOTINGS AND ANCHOR UNITS FOR THIS PROJECT. THE SOIL REPORT AND FOUNDATION FOOTING DESIGN SHALL BE COMPLETED AND APPROVED BY THE ENGINEER, PRIOR TO EXCAVATION OF THE END ANCHOR AND POST FOOTINGS. ALL POSTS AND ANCHOR UNIT FOUNDATION DESIGNS RECOMMENDED BY THE MANUFACTURER FOR THIS PROJECT SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. THE POST FOOTINGS SHALL NOT BE LESS THAN 12" DIAMETER BY 36" DEEP. FOOTINGS SHALL NOT EXTEND ABOVE GROUND MORE THAN 1".

SH-10 & US-64

TRAFFIC SAFETY NOTES

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Sheet No. T002

CS-CONTRACTOR 1

CONTRACTOR SIGN

OKLAHOMA LOGO IS CENTERED VERTICALLY ON PANEL
 OKLAHOMA LOGO SIZE PROPORTIONAL BASED ON DIAMETER OF CIRCLE
 CONTRACTOR NAME AND LOCATION ARE VARIABLE, TEXT IS TO BE PLACED WITHIN THE DASHED AREA
 FONT SIZE AND SPACING MUST BE AT LEAST THE MINIMUM LISTED



*SEE PAGE 6-59 OF THE 2004 STANDARD
 HIGHWAY SIGNS MANUAL FOR SYMBOL DESIGN

ALL DIMENSIONS IN INCHES

A	B	C	D	E	F	G	H	I	J	K
48	24	1.75	6	0.75	2	10	3	1.5	0.5	0.5
72	36	2.63	9	1.12	3	15	4.5	1.5	.75	.75
96	48	2.63	12	1.5	4	20	6	1.5	1	1

L	M	N	O	P MINIMUM	Q MINIMUM
5	7	33	10	2.5C	2.5
7.6	10.5	49.5	15	3.75C	3.75
10.1	14	66	20	5C	5

COLORS: LEGEND, BORDER - BLACK
 BACKGROUND - WHITE (RETROREFLECTIVE)

UPPER SECTION
 LOWER SECTION
 BLACK
 ORANGE (RETROREFLECTIVE)

SH-10 & US-64

CONSTRUCTION SIGNING

Design	M.K.	1/20
Detail	M.K.	1/20
Check		

ODOT
DIVISION
ONE

STATE OF
 OKLAHOMA

Filename:

Scale 1"= NA

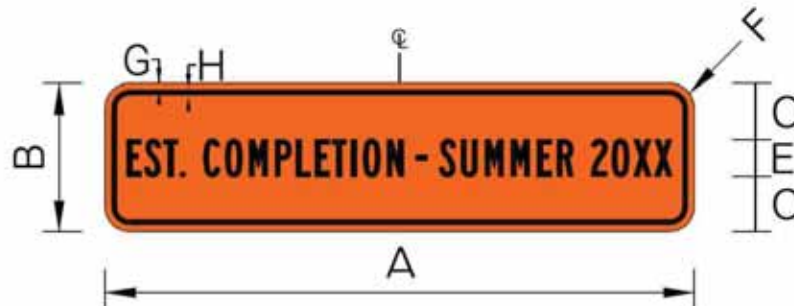
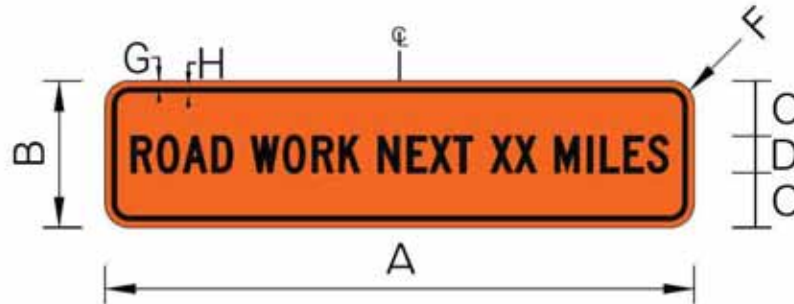
Project No. 33833(04)

Sheet No. T001

CS-CONTRACTOR 2 & 3

CONTRACTOR SUPPLEMENTAL PLAQUES

TEXT LENGTH IS VARIABLE, STRING IS CENTERED VERTICALLY ON PANEL
 COMPLETION SIGN TEXT CAN READ EITHER "SPRING", "SUMMER", "FALL", OR "WINTER"
 ALTERNATIVELY MONTH NAMES MAY BE USED AND ABBREVIATED IF NECESSARY
 ONE OF THE FOLLOWING SIGNS SHOULD BE PLACED BELOW THE CONTRACTOR SIGN



ALL DIMENSIONS IN INCHES

USE GUIDANCE	A	B	C	D	E	F	G	H
LOW SPEED URBAN/TOWN	48	12	4.5	3 C	3 B	1.5	0.5	0.5
CONVENTIONAL TWO LANE HIGHWAY	72	18	6.75	4.5 C	4.5 B	1.5	0.75	0.75
FREEWAY/ EXPRESSWAY	96	24	9	6 C	6 B	1.5	1	1

COLORS: LEGEND, BORDER - BLACK
 BACKGROUND - ORANGE (RETROREFLECTIVE)

SH-10 & US-64

CONSTRUCTION SIGNING

Design	M.K.	1/20
Detail	M.K.	1/20
Check		

ODOT
DIVISION
ONE

STATE OF
 OKLAHOMA

Filename:

Scale 1"= NA

Project No. 33833(04)

Sheet No. T002

OKLAHOMA TRANSPORTATION LOGO

DIMENSIONS ARE ALL APPROXIMATE
 COLORS ARE LISTED AS RGB AND PANTONE VALUES
 DESIGN GUIDELINES AND IMAGES MAY BE FOUND AT _____



A	B	C	D
6	21.4	1.8	1.3
9	32.1	2.7	2
12	42.8	3.6	2.7



1	2	3	4	5	6	7	8	9	10	11	12
SKY BLUE BRIGHT	SKY BLUE DARK	WOODLAND GREEN BRIGHT	WOODLAND GREEN DARK	CLAY RED BRIGHT	CLAY RED DARK	PRAIRIE GOLD BRIGHT	PRAIRIE GOLD DARK	WATER BLUE BRIGHT	WATER BLUE DARK	SLATE GRAY BRIGHT	SLATE GRAY DARK
RGB 099/123/214 #66AEEF	RGB 012/106/196 #0066AA	RGB 012/106/196 #0066AA	RGB 012/106/196 #0066AA	RGB 209/104/132 #D16A20	RGB 209/104/132 #D16A20	RGB 209/104/132 #D16A20	RGB 209/104/132 #D16A20	RGB 012/106/196 #0066AA	RGB 012/106/196 #0066AA	RGB 012/106/196 #0066AA	RGB 012/106/196 #0066AA
2171	2384	7490	2280	7580	7587	131	132	660	7686	COOL GRAY 8	COOL GRAY 10

SH-10 & US-64

CONSTRUCTION SIGNING

Design	M.K.	1/20
Detail	M.K.	1/20
Check		

ODOT
DIVISION
ONE

STATE OF OKLAHOMA

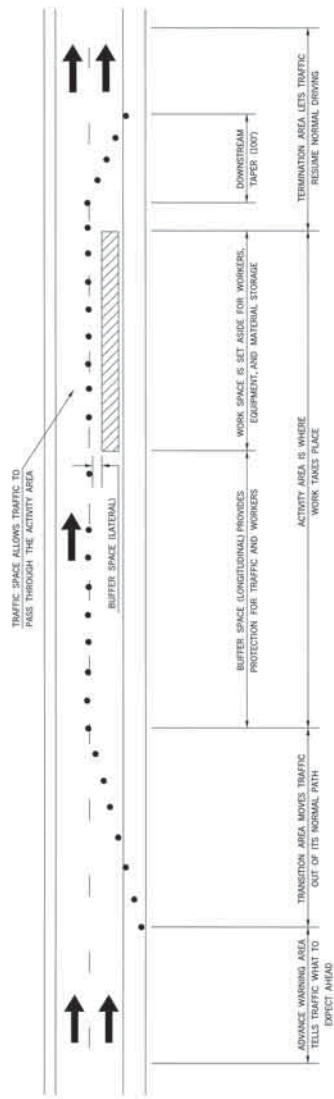
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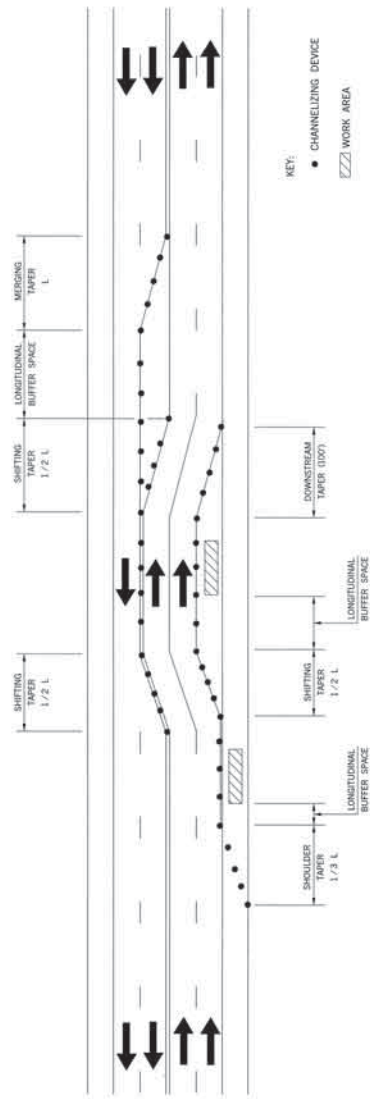
Project No. 33833(04)

Sheet No. T003

REVISION	REVISIONS	DATE
CHANGED	TRANSITION AREA	8/21/2013



COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL ZONE



TAPERS AND BUFFER SPACE

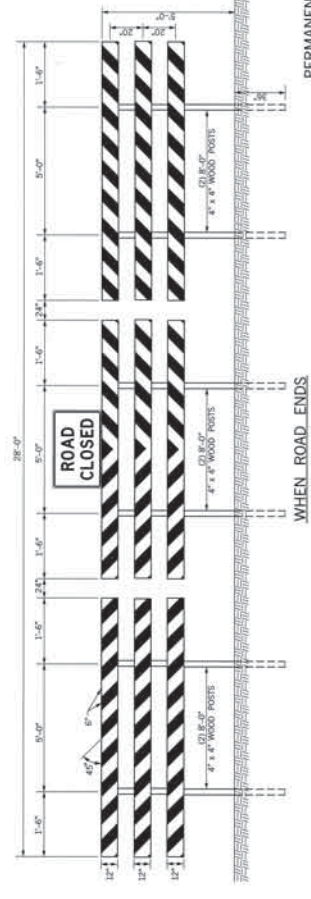
TEMPORARY TRAFFIC CONTROL ELEMENTS

APPROVED BY
TRAFFIC ENGINEER *[Signature]* DATE 6/12/11

TRAFFIC CONTROL STANDARD
TEMPORARY TRAFFIC CONTROL ELEMENTS

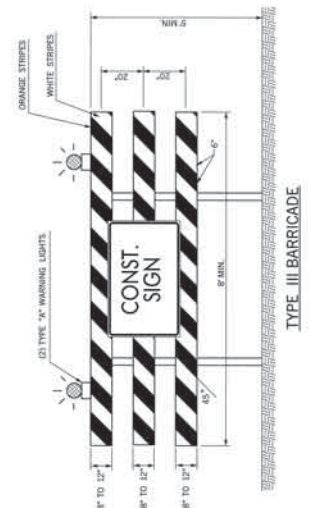
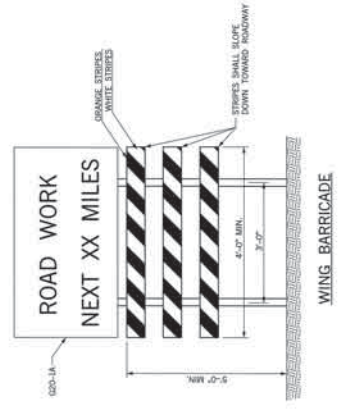
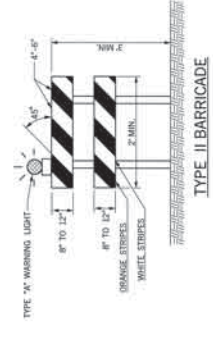
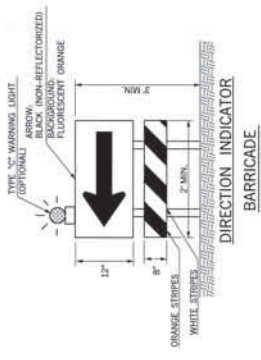
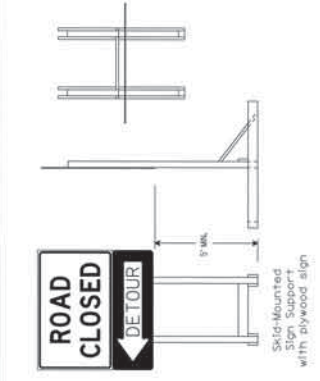
2009 SPECIFICATIONS

TCS3-1 01 T-503



NOTES: A PERMANENT BARRICADE TYPE III(A) SHALL CONSIST OF NINE (9) PANELS AND SIX (6) POSTS. TYPICAL INSTALLATION AS SHOWN IS FOR AN ABSOLUTE CLOSURE. BARRICADES SHOULD NOT BE PLACED PARALLEL TO TRAFFIC IF NOT OUTSIDE OF CLEAR ZONE.

PERMANENT BARRICADE TYPE III(B) SHALL CONSIST OF NINE (9) PANELS AND SIX (6) POSTS. TYPICAL INSTALLATION AS SHOWN IS FOR AN ABSOLUTE CLOSURE. BARRICADES SHOULD NOT BE PLACED PARALLEL TO TRAFFIC IF NOT OUTSIDE OF CLEAR ZONE.



ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD
880(C)	CONSTRUCTION BARRICADES	SD
880(D)	WARNING LIGHTS	SD

BASIS OF PAYMENT



APPROVED BY: *[Signature]* DATE: 3/31/14
 TRAFFIC ENGINEER

TRAFFIC STANDARD
 TRAFFIC CONTROL STANDARD
 TRAFFIC CONTROL DEVICES

2009 SPECIFICATIONS

STOP
LEGEND AND BORDER: WHITE (REFLECTORIZED)
BACKGROUND: RED (REFLECTORIZED)

SLOW
LEGEND AND BORDER: BLACK (NON-REFLECTORIZED)
BACKGROUND: ORANGE (REFLECTORIZED)

ORANGE FLAG (OPTIONAL)
FLAG SIZE: 16" x 16" (MIN.)

**PORTABLE AND TEMPORARY MOUNTINGS
METHODS OF MOUNTING SIGNS OTHER THAN ON POSTS**

NOTE: THE BOTTOM OF SIGNS MOUNTED ON BARRICADES OR TEMPORARY MOUNTINGS SHALL NOT BE LESS THAN 1 FOOT ABOVE THE UNPAVED WAY.

**URBAN DISTRICT
(WITH CURB)**

**URBAN DISTRICT
(WITHOUT CURB)**

**RURAL DISTRICT WITH
ADVISORY SPEED PLATE**

RURAL DISTRICT

HEIGHT AND LATERAL LOCATIONS OF SIGNS – TYPICAL INSTALLATIONS

APPROVED BY
TRAFFIC ENGINEER: *Shirley Gandy* DATE: 6/23/10

TRAFFIC CONTROL STANDARD
TYPICAL SIGN INSTALLATION

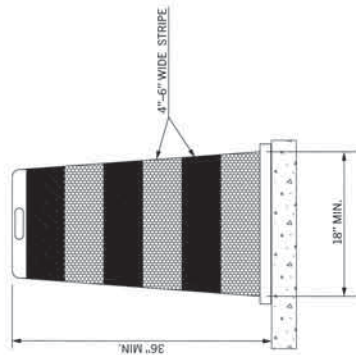
2009 SPECIFICATIONS

TCS-1

00

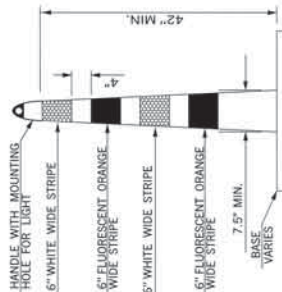
1-505

T:\PC\36 M\2009 Standards\TC\505.dgn B:16.51 AM 6/27/2010 d:\wv2\ba\wv\wv\john B:\TMA\PL071.pwt



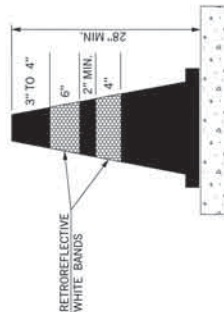
DRUM

NOTES:
METAL DRUMS SHALL NOT BE USED.
EACH DRUM SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES. THESE STRIPES SHALL CONSIST OF RETROREFLECTIVE SHEETING.
BALLAST SHALL NOT BE PLACED ON TOP OF A DRUM.
DRUMS SHALL NOT BE USED TO DELINEATE AN EDGE DROP OFF IF THEY MUST BE PLACED IN THE DROP OFF AREA BELOW THE LEVEL OF THE DRIVING SURFACE.



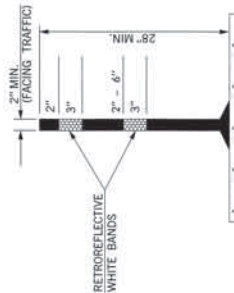
CHANNELIZER CONE

NOTES:
CHANNELIZER CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS DURING NIGHTTIME OR WHENEVER MORE CONSPICUOUS GUIDANCE IS NEEDED SHALL BE A MINIMUM OF 42 INCHES HIGH. EACH CHANNELIZER CONES SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES. THESE STRIPES SHALL CONSIST OF RETROREFLECTIVE SHEETING.
BASE SHALL WEIGH 30 LBS. OR MORE.



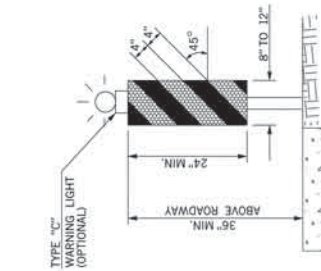
CONE

NOTES:
CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS DURING NIGHTTIME OR WHENEVER MORE CONSPICUOUS GUIDANCE IS NEEDED SHALL BE A MINIMUM OF 28 INCHES HIGH. CONES SHALL BE PREDOMINANTLY ORANGE, WITH WHITE RETROREFLECTIVE SHEETING.



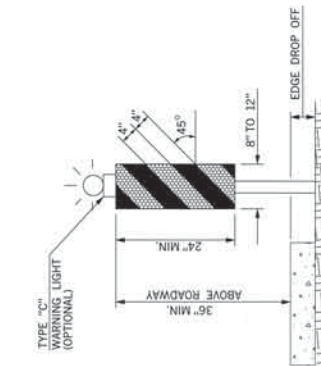
TUBE CHANNELIZER

NOTES:
TUBE CHANNELIZERS USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS DURING NIGHTTIME OR WHENEVER MORE CONSPICUOUS GUIDANCE IS NEEDED SHALL BE A MINIMUM OF 28 INCHES HIGH. TUBE CHANNELIZERS SHALL BE PREDOMINANTLY ORANGE, WITH WHITE RETROREFLECTIVE SHEETING.



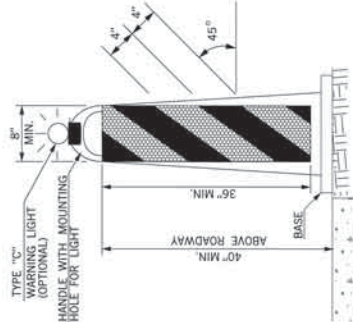
**VERTICAL PANEL
W/O DROP OFF**

NOTES:
PANEL STRIPE WIDTHS SHALL BE 6 INCHES EXCEPT WHERE PANELS LENGTHS ARE LESS THAN 36 INCHES, THEN 4 INCH WIDE STRIPES MAY BE USED. MARKINGS FOR VERTICAL PANELS SHALL BE ALTERNATING FLUORESCENT ORANGE AND WHITE RETROREFLECTORIZED STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS). SHALL HAVE A MINIMUM OF TWO (2) FULL FLUORESCENT ORANGE STRIPES.



**VERTICAL PANEL
W/DROP OFF**

ON UNDIVIDED HIGHWAYS VERTICAL PANELS SHALL HAVE A MINIMUM OF 192 SQUARE INCHES OF RETROREFLECTIVE SHEETING ON EACH PANEL (FRONT AND BACK). WHEN USED ON HIGH SPEED ROADWAYS, VERTICAL PANELS SHALL HAVE A MINIMUM OF 384 SQUARE INCHES OF RETROREFLECTIVE SHEETING ON EACH PANEL (FRONT AND BACK). THIS SHALL CONSTITUTE ONE (1) COMPLETE VERTICAL PANEL.
ON DIVIDED HIGHWAYS A VERTICAL PANEL MAY HAVE SHEETING ON ONLY ONE SIDE.



STACKABLE VERTICAL PANEL

NOTES:
(1) VERTICAL PANEL SIGNS SHALL BE MOUNTED ON THE BACK WHEN USED FOR TWO-WAY TRAFFIC.
(2) BACK SHALL BE NO LARGER THAN 28" LONG BY 20" WIDE, AND 2" THICK.
(3) BASE SHALL WEIGH 30 LBS. OR MORE
(4) THESE DEVICES SHALL BE CONSTRUCTED OF A MATERIAL THAT CAN BE STRUCK WITHOUT DAMAGING VEHICLES ON IMPACT.

KEY:
FLUORESCENT ORANGE (REFLECTORIZED)
WHITE (REFLECTORIZED)

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
86000	VERTICAL PANEL	SD
86001	WARNING LIGHTS	SD
86002	DRUMS	SD
86003	TUBE CHANNELIZERS	SD
86004	CONES	SD
86005	CHANNELIZER CONES	SD



APPROVED BY: *[Signature]* DATE: 12/1/04
TRAFFIC INCHARGE
TRAFFIC CONTROL STANDARD
CHANNELIZING DEVICES

2009 SPECIFICATIONS

TC56-1
02
T-506

ROAD CLOSED ROAD CLOSED R11-2 48 x 30 10.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)	LANE CLOSED LANE CLOSED R11-2(LANE) 48 x 30 10.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)	ROAD CLOSED XX MILES AHEAD ROAD CLOSED XX MILES AHEAD R11-3a 60 x 30 12.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)	BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY BRIDGE OUT XX MILES AHEAD R11-3b 60 x 30 12.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)	ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC R11-4 60 x 30 12.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)
DETOUR DETOUR SIGN M4-8 24 x 12 2.00 SF M4-8E 30 x 15 3.13 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	DETOUR DETOUR SIGN M4-9(R) 30 x 24 5.00 SF M4-9(R)E 48 x 36 12.00 SF M4-9(R)F 60 x 48 20.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	DETOUR DETOUR SIGN M4-9(L) 30 x 24 5.00 SF M4-9(L)E 48 x 36 12.00 SF M4-9(L)F 60 x 48 20.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	DETOUR DETOUR SIGN M4-9(V) 30 x 24 5.00 SF M4-9(V)E 48 x 36 12.00 SF M4-9(V)F 60 x 48 20.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	DETOUR DETOUR SIGN M4-10(R) 48 x 18 6.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)
DETOUR DETOUR SIGN M4-10(L) 48 x 18 6.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	ROAD WORK NEXT XX MILES ROAD WORK NEXT XX MILES SIGN G20-1A 36 x 18 4.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	END ROAD WORK END ROAD WORK SIGN G20-2A 36 x 18 4.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	PILOT CAR FOLLOW ME PILOT CAR FOLLOW ME SIGN G20-4 36 x 18 4.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	NOTES: WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION). ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS.

BASIS OF PAYMENT

ITEM NO.	UNIT	CONSTRUCTION SIGNS
880(B)	SD	

APPROVED BY: *David Gandy* DATE: 3/5/14
TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS: TCS9-1 01 T-509

 TURN LEFT W1-1(L) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 TURN RIGHT W1-1(R) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 CURVE LEFT W1-2(L) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 CURVE RIGHT W1-2(R) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 LEFT REVERSE TURN W1-3(L) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 RIGHT REVERSE TURN W1-3(R) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 LEFT REVERSE CURVE W1-4(L) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 RIGHT REVERSE CURVE W1-4(R) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 LEFT REVERSE CURVE W1-4(BL) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 RIGHT REVERSE CURVE W1-4(BR) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 DOUBLE ARROW W1-7 48 x 24 8.00 SF W1-7E 60 x 30 12.50 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 ARROW W1-6 48 x 24 8.00 SF W1-6E 60 x 30 12.50 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 RIGHT REVERSE CURVE W1-4(R) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 LEFT REVERSE CURVE W1-4(L) 48 x 48 16.00 SF COLOR: SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)
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NOTES:
WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGN MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION).
ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS.
* SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
8502(B)	CONSTRUCTION SIGNS	SQ

APPROVED BY: *Chief Clerk* DATE: 6/22/16
TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2008 SPECIFICATIONS TC130-1 00 T-310

DESCRIPTION	REVISION	DATE
CHANGE DESIGN NUMBER		07/18/10

 CHEVRON W1-8 18 x 24 3.00 SF W1-8E 30 x 36 7.50 SF W1-8F 36 x 48 12.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 STOP AHEAD W3-1 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED) SYMBOL: WHITE BORDER ON RED BACKGROUND (REFLECTORIZED)	 YIELD AHEAD W3-2 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED) SYMBOL: WHITE BORDER ON RED BACKGROUND (REFLECTORIZED)	 ROAD NARROWS W3-3 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED) SYMBOL: R = RED (REFLECTORIZED) Y = YELLOW (REFLECTORIZED) G = GREEN (REFLECTORIZED)	 BE PREPARED TO STOP SIGN W3-4 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	NOTE: WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION). ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS. * SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.
 SPEED REDUCTION W3-5 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED) SYMBOL: BLACK BORDER AND TEXT ON WHITE BACKGROUND (REFLECTORIZED)	 LEFT LANE ENDS W4-2(L) 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 RIGHT LANE ENDS W4-2(R) 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 ROAD NARROWS W5-1 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 NARROW BRIDGE W5-2 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	
 ONE LANE BRIDGE W5-3 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 DIVIDED HIGHWAY W6-1 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 DIVIDED HIGHWAY W6-2 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 TWO WAY TRAFFIC SIGN W6-3 48 x 48 16.00 SF COLOR: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
8800(B)	CONSTRUCTION STONE	SD



APPROVED BY
TRAFFIC ENGINEER *David Davis* DATE *06/10*

TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2008 SPECIFICATIONS

TC311-1

01

DESCRIPTION	REVISIONS	DATE			
 LOW SHOULDER SIGN WB-9 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 UNEVEN LANES SIGN WB-11 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 NO CENTER LINE SIGN WB-12 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 GROOVED PAVEMENT SIGN WB-15 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 MOTORCYCLE (PLAQUE) * WB-15P 18 x 36 4.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	NOTES: WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION). ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS. * SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.
 SHOULDER DROP-OFF (SYMBOL) WB-17 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 SHOULDER DROP-OFF (PLAQUE) * WB-17P 18 x 36 4.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 LANE ENDS MERGE LEFT WB-21LL 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 LANE ENDS MERGE RIGHT WB-21R 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 TRUCK CROSSING SIGN WB-110 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	
 DOUBLE ARROW SIGN WB-12-1 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 CLEARANCE SIGN WB-12-2 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 XX MPH ADVISORY SPEED SIGN * WB-13-1P 18 x 18 2.25 SF WB-13-1PE 24 x 24 4.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 XXX FEET XX FEET SIGN * WB-16-2P 24 x 18 3.00 SF WB-16-2PE 30 x 24 5.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
860(B)	CONSTRUCTION SIGNS	SQ

APPROVED BY: *Chad G. Smith* DATE: 6/24/10
TRAFFIC ENGINEER
TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS


2009 SPECIFICATIONS
TC513-1
T-513

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
880081	CONSTRUCTION SIGNS	SQ

APPROVED BY: *Chad G. Smith* 04/23/10
 TRAFFIC ENGINEER
 TRAFFIC STANDARD
 TRAFFIC CONTROL STANDARD
 CONSTRUCTION SIGNS

2009 SPECIFICATIONS
 TC313-1
 00
 T-513

 ROAD WORK XXXX ROAD WORK SIGN W20-1 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 DETOUR XXXX DETOUR SIGN W20-2 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 ROAD CLOSED XXXX ROAD CLOSED SIGN W20-3 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 STREET CLOSED XXXX STREET CLOSED SIGN W20-3A 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 ONE LANE ROAD XXXX ONE LANE ROAD SIGN W20-4 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)
 LEFT LANE CLOSED XXXX LEFT LANE CLOSED SIGN W20-5(L) 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 RIGHT LANE CLOSED XXXX RIGHT LANE CLOSED SIGN W20-5(R) 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 FLAGGER XXXX FLAGGER SIGN W20-7 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 FLAGGER XXXX FLAGGER SIGN W20-7a 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 WORKERS SIGN W21-1 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)
 FRESH OIL FRESH OIL SIGN W21-2 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 ROAD MACHINERY AHEAD ROAD MACHINERY AHEAD SIGN W21-3 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	NOTES: WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION). ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS. * SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.		

BASIS OF PAYMENT

ITEM NO.	ITEM	CONSTRUCTION S/D	UNIT
	TRAFFIC ENGINEER		SO

APPROVED BY: *Charles J. Smith* DATE: 6/23/10
TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS TC314-1 00 1-514

DESCRIPTION	REVISION	DATE
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 SHOULDER WORK SIGN W21-5 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 SURVEY CREW SIGN W21-6 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 UTILITY WORK AHEAD SIGN W21-7 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 MOWING AHEAD SIGN W21-8 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 BRIDGE REPAIR SIGN W21-9 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)
 MATERIAL ON SHOULDER SIGN W21-10 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 MATERIAL ON ROADWAY SIGN W21-11 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 BLASTING ZONE AHEAD SIGN W22-1 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 TURN OFF 2-WAY RADIO AND CELL PHONE CELL TELEPHONES SIGN W22-2 36 x 30 7.50 SF W22-2E 42 x 36 10.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 END BLASTING ZONE SIGN W22-3 36 x 30 7.50 SF W22-3E 42 x 36 10.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)

NOTES:
WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION).

ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS.

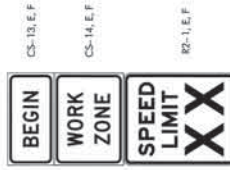
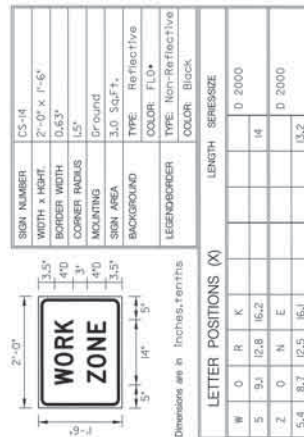
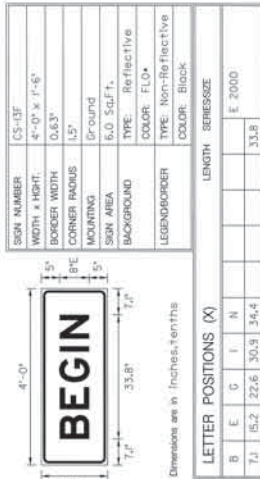
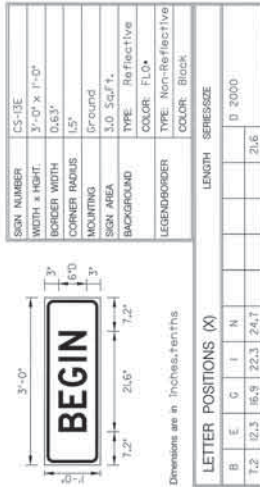
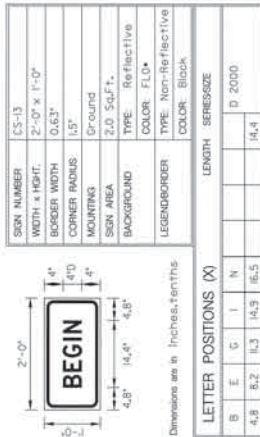
*SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
B&O(B)	CONSTRUCTION SIGNS	SD

APPROVED BY: *David Chaud* DATE: *6/23/10*
 TRAFFIC STANDARD
 TRAFFIC CONTROL STANDARD
 CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TC515-1 00 T-513



CONSTRUCTION
 BEGIN WORK ZONE
 SPEED LIMIT
 ASSEMBLY

ITEM NO.	ITEM	UNIT
8800B1	CONSTRUCTION SIGNS	SD



APPROVED BY
 TRAFFIC ENGINEER *[Signature]*
 DATE: 3/1/11
 TRAFFIC STANDARD
 CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS19-1 01
 T-519



CONSTRUCTION ZONE PAVEMENT MARKINGS THRU SHOO-FLY

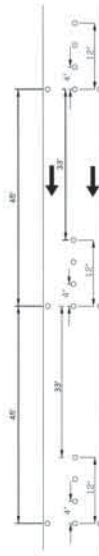


ONE-WAY PAVEMENT MARKING REMOVABLE TAPE OR PAINT

PAYEMENT MARKINGS: REMOVABLE TAPE OR PAINT



TWO-WAY PAVEMENT MARKING
REMOVABLE TAPE OR PAINT



ONE-WAY PAVEMENT MARKING FLEX TABS

PAVEMENT MARKINGS: FLEX TABS

TYPE I - FLEX TAB MARKERS SHALL HAVE REFLECTORIZED MATERIAL ON BOTH SIDES.

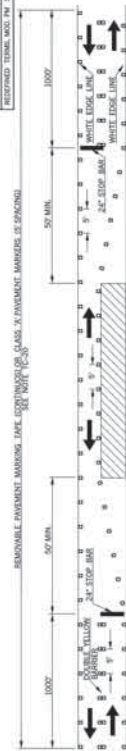
TYPE II - FLEX TAB MARKERS SHALL HAVE REFLECTORIZED MATERIAL ON BOTH SIDES AND SHALL HAVE A CLEAR REVERSE-SIDE CONTR.

FLEX TABS MAY BE INSTALLED AS SHOWN FOR LONG-TERM STATIONARY PAVEMENT MARKINGS.



TWO-WAY PAVEMENT MARKING
FLEX TABS

INTERMEDIATE-TERM STATIONARY PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR ONE LANE CLOSURE ON TWO LANE /TWO WAY ROADWAY

[illegible]

KEY:

WOR
WVS
YELL
WHET
YELL
CLAS

ACCEPTABLE ALTERNATE PAVEMENT MARKING

PAVEMENT MARKINGS
STANDARD STRIP

TWO-LANE / TWO-WAY



4 -LANE
DIVIDED ROADWAY



WHITE DOTTED LINE

LONG-TERM STATIONARY PAVEMENT MARKINGS



MITTED DEFINITIONS OF THE FIVE CATEGORIES OF WORK DURATION, AND THEIR TIME AT A LOCATION SHALL BE:

- A. LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 DAYS.
- B. INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYBUT PERIOD UP TO 3 DAYS OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
- C. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR BUT LESS THAN 1 DAY.
- D. BRIEF DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
- E. MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

APPROVED BY _____
 PROFESSIONAL ENGINEER
 DATE 4/6/2013



TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
CONSTRUCTION ZONE PAVEMENT MARKINGS

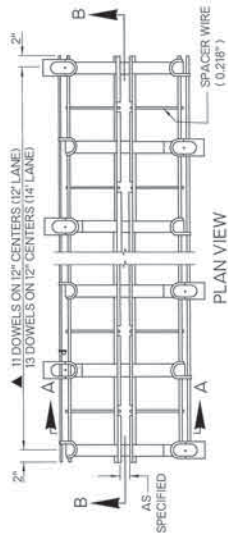
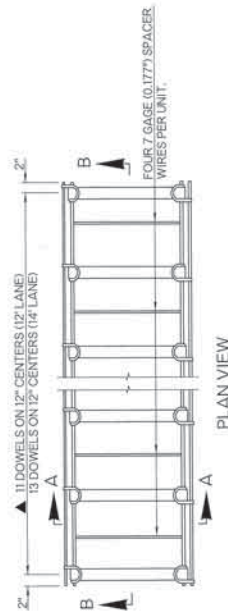
2009 SPECIFICATIONS

02

151

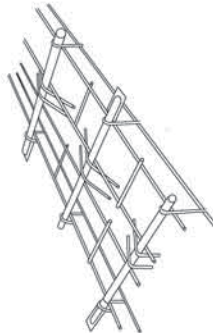
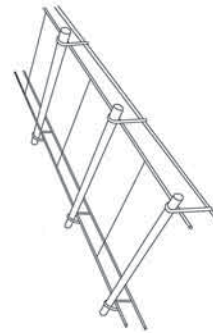
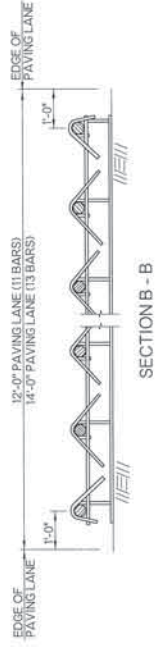
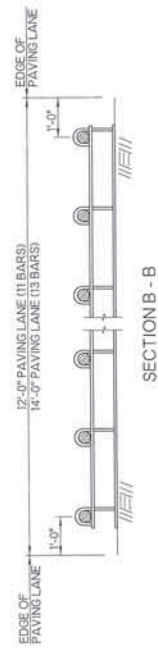
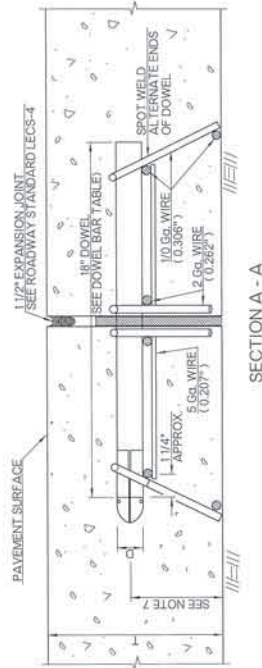
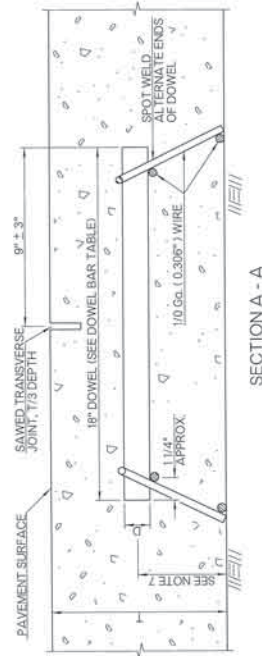
TCS2

OKLAHOMA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS
REVISION
DATE



DOWEL BAR TABLE			
▲ SPACING & SIZE DATA			
(1')	DOWEL DIA.	DOWEL LENGTH	C/C DOWEL SPACING
6' - 8'	1"	18"	12"
8 1/2' - 10'	1 1/4"	18"	12"
10 1/2' & UP	1 1/2"	18"	12"

DOWEL DIAMETER WILL BE DETERMINED BY THE SLAB WIDTH. FOR THE MINIMUM DOWEL LENGTH, THE CALCULATED NOMINAL DEPTH WILL BE SHOWN ON THE PLANS.



GENERAL NOTES

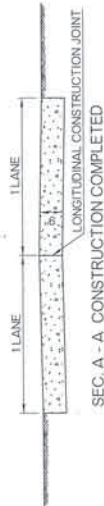
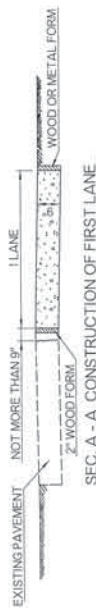
- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
- ANY DEVICE USED FOR SUPPORTING DOWELS SHALL HAVE SUFFICIENT RIGIDITY AND BE VELD IN PLACE DURING THE FINISHED PAVING AND SO THAT DOWELS ARE NOT PRODUCED THE SPECIFIED RESULTS SHALL BE REJECTED.
- PRODUCER AND CONTRACTOR SHALL AVOID PATENT INFRINGEMENT OF THE BASKET AND SHALL SAVE THE STATE HARMLESS IN THE USE OF ANY BASKET.
- THE CONTRACTOR MAY SELECT THE TYPE OF BASKET TO BE USED. AFTER THE SELECTION IS MADE, THE SAME TYPE BASKET SHALL BE USED THROUGHOUT THE PROJECT, UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- COLD-DRAWN STEEL WIRE USED FOR DOWEL BASKETS, SHALL BE ACCEPTED BY THE CONTRACTOR, AS PROVIDING SUFFICIENT DOWEL BAR SUPPORT DURING PAVING PROCEED.
- DOWEL BARS SHALL BE GRADE 40 PLAIN BARS. IN ACCORDANCE WITH SECTION 723.01 OF THE SPECIFICATIONS, DOWEL BARS SHALL BE CENTERED ON THE BASKET REGARDLESS OF THE WIDTH OF THE BASKET OR THE LENGTH OF THE DOWEL BAR.
- THE HEIGHT OF THE LOAD TRANSFER UNIT (MEASURED TO THE CENTER OF THE DOWEL BAR FROM THE PAVEMENT SURFACE) SHALL BE 1/2 THE THICKNESS OF THE PAVEMENT, PLUS OR MINUS 1/2 THE DIAMETER OF DOWEL BAR OF THE UNIT.
- DOWEL BARS SHALL HAVE A SHOP APPLIED EPOXY COATING OVER THEIR ENTIRE LENGTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COATING TO BE APPLIED WITH A FORM RELEASE AGENT (OR APPROVED EQUIVALENT ROAD BREAKER) APPLIED IN THE FIELD, IMMEDIATELY PRIOR TO PAVING. THE FORM RELEASE AGENT SHALL NOT BE ALLOWED TO EVAPORATE FROM THE BARS PRIOR TO PAVING.
- FOR EXPANSION JOINTS, THE DOWEL BARS SHALL HAVE EXPANSION CAPS WITH A MINIMUM 1" AND A MAXIMUM 2" AIR SPACE IN THE END OF THE EXPANSION CAP'S EXPANSION JOINT ASSEMBLIES).
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A STAKING PATTERN. THIS SHALL SECURE ALL DOWEL BASKETS SUCH THAT THE FINAL DOWEL POSITION IS WITHIN SPECIFICATION LIMITS.
- FOR EXPANSION JOINTS, IN ADDITION TO THE SUPPORTS INDICATED, THE CONTRACTOR SHALL PROVIDE SUITABLE INSTALLING DEVICES AND SUCH ADDITIONAL STAKES AS MAY BE REQUIRED TO HOLD THE JOINT FILLER VERTICAL AND SECURE THE JOINT FILLER. THE JOINT FILLER SHALL BE PROPERLY COATED AND REQUIRED TO SATISFACTORILY FORM THE UPPER PORTION OF THE JOINT FOR RECEIVING THE SEAL. SEE ROADWAY STANDARD LECTS-4.

WELDED CONTRACTION JOINT ASSEMBLY

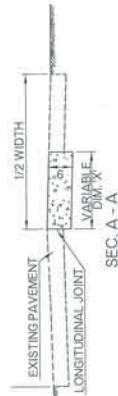
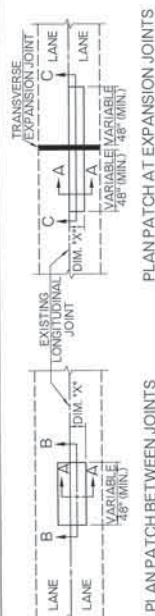
WELDED EXPANSION JOINT ASSEMBLY

APPROVED BY
ROADWAY ENGINEER *Cathy A. A* DATE *04/16/15*
ROADWAY DESIGN DIVISION STANDARD
DOT
LOAD TRANSFER UNITS FOR
CONCRETE PAVEMENT JOINTS

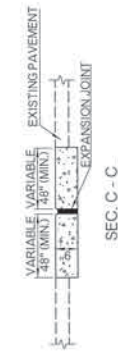
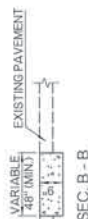
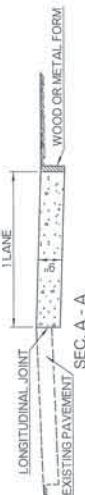
OKLAHOMA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS
DATE
DESCRIPTION



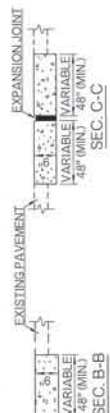
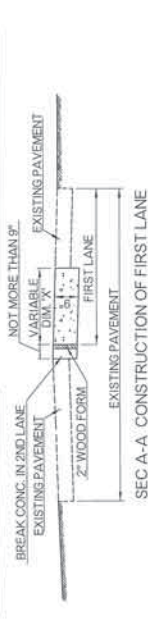
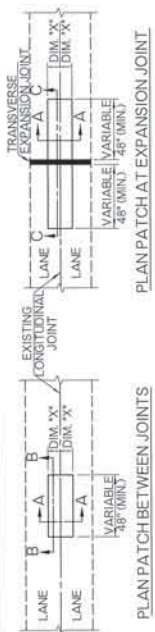
MULTI LANE PATCH (CONSTRUCTED ONE LANE AT A TIME)



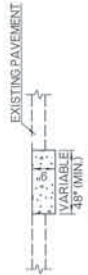
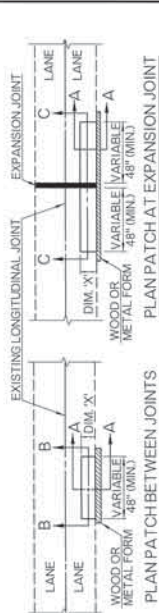
INTERIOR EDGE PATCH



SINGLE LANE PATCH



RECTANGULAR PLUG PATCH



EXTERIOR EDGE PATCH

1. CROWN OF PATCH TO MATCH CROWN OF EXISTING PAVEMENT.
2. EDGES OF PAVEMENT SLAB, OPEN JOINTS AND CONSTRUCTION JOINTS SHALL BE EDED WITH AN EDGER HAVING A 1/2" RADIUS. JOINT ALONG A BROKEN EDGE OF THE EXISTING PAVEMENT SHALL NOT BE EDED.
3. CONCRETE FOR PATCHES SHALL BE HIGH-EARLY-STRENGTH CONCRETE PAVEMENT MADE WITH THE USE OF HIGH-EARLY-STRENGTH PORTLAND CEMENT OR 25% PORTLAND CEMENT AND 75% FLY ASH. THE CONCRETE SHALL BE PLACED AND FINISHED WITHIN 24 HOURS OF POURING WHEN DIRECTED BY THE RESIDENT ENGINEER.
4. DIMENSION 'X' TO BE NOT LESS THAN 4 FEET. NOT SHALL IT EXCEED 6 FEET FOR 18 FOOT PAVEMENT OR EXCEED 0 FEET FOR 20 FOOT PAVEMENT. IF EITHER OF THESE LIMITS ARE EXCEEDED USE A HALF WIDTH PATCH.
5. PAVEMENT SECTION DEPTH TO BE SHOWN ON PLANS.
6. IN AREAS WHERE PATCHING IS REQUIRED, UNDERCUTTING AND BACK FILLING OF SUBGRADE SHALL BE DONE TO A MINIMUM DEPTH OF 6 INCHES. THE BACK FILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF STANDARD DENSITY. COST OF UNDERCUTTING AND BACKFILLING TO BE INCLUDED IN OTHER ITEMS OF WORK.
7. FOR DETAILS OF JOINTS AND SEALERS SEE ROADWAY STANDARD LEC-3.

APPROVED BY *Calvin A. Caldwell* DATE *04/15*
 ROADWAY ENGINEER
 ROADWAY DESIGN DIVISION STANDARD
DOT PAVEMENT RECONSTRUCTION DETAILS

OKLAHOMA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION SPECIFICATIONS
SECTION 400
DATE

GENERAL SEQUENCE OF PAVEMENT REPAIR

STEP 1 CONCRETE PATCHING

- AREAS TO BE PATCHED WILL BE DESIGNATED BY THE ENGINEER
- FOR REMOVAL OF FULL DEPTH PATCHING, SAWING IS TO BE FULL DEPTH, LIFT OUT DAMAGED PAVEMENT WHENEVER PRACTICAL
- THE FLOW OF TRAFFIC MAY BE RESTRICTED TO ONE LANE DUE TO PATCHING OPERATION FOR A MAXIMUM DISTANCE OF ONE MILE.

STEP 2 DOWEL BAR RETROFIT INSTALLATION

- POST ALL DOWEL BARS AS SHOWN, BAR PLACEMENT SHALL CONSIDER THE CENTER OF THE JOINT, WITH 12" TO 15" APART, AND 18" FROM EDGE OF DRIVE LANE.
- DOWEL BARS SHALL NOT BE PLACED ON TOP OF A LONGITUDINAL CHUCK.
- PAVEMENT FOR DOWEL BAR RETROFIT SHALL ONLY BE MADE FOR DOWELS PLACED BY THE PROCESS OF CUTTING A SLOT.
- IF SLOTS ARE SAWS BUT NOT RETROFITTED WITH A BAR, THE SAW CUTS SHALL BE CLEANED AND SEALED WITH AN EPOXY RESIN.

STEP 3 DIAMOND GRINDING CONCRETE PAVEMENT

- AFTER SLAB APPLICATION AND DOWEL BAR RETROFIT, DIAMOND GRINDING OPERATIONS MAY BEGIN.

STEP 4 CONCRETE JOINT SEALING

- CUT SHALL BE MADE TO THE BOTTOM OF THE DRIVING LANES AND MOVE TOWARD THE NATIONAL SIDE.
- INSTALLATION OF JOINT SEALER AND JOINT SEALANT SHALL BE FROM THE END OF THE INITIAL JOINT TO THE LOW EDGE OF THE DRIVING LANES.

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 CDOT STANDARD SPECIFICATIONS.
- COST OF SAWING AND REMOVAL OF PAVEMENT FOR FULL DEPTH PATCHING, COST OF DOWEL BARS, THE BARS AND AN APPROVED SEALANT IN THE PRICE BID FOR FULL DEPTH PATCH PLACEMENT, UNLESS OTHERWISE SHOWN ON THE PLAN.
- HIGH EARLY STRENGTH (HES) CONCRETE, WHEN USED FOR FULL DEPTH PATCHING, WILL BE PAID FOR AS PER CDOT SPECIFICATIONS.
- 80-TON COMPACT JOINT SEALING JOINT REHABILITATION SHALL INCLUDE SAWING, CLEANING OF JOINT, BACKER ROD, SILICONE SEALANT AND ANY ALL INCIDENTALS REQUIRED TO COMPLETE THE WORK.
- FOR SKEWED TRANSVERSE JOINTS, DOWEL BARS SHALL ALWAYS BE PLACED PARALLEL TO THE ROADWAY.
- HOLES ARE TO BE DRILLED IN DIAMETER BASED ON DOWEL BAR SIZE AND TYPE OF GLUE USED.
- FOR DOWEL BAR RETROFIT, HOLES SHALL BE DOWEL DIA. + 0.5" - 1.0".
- FOR CONCRETE GROUT, HOLE DIAMETER SHALL BE DOWEL DIA. + 1.2" - 1.4".

ITEM NO.	ITEM	UNIT
202 (A)	UNCLASSIFIED EXCAVATION	CY
404 (E)	FILL DEPTH P.C.C. PATCH (PLACEMENT)	SY
404 (G)	P.C.C. CONCRETE FOR PAVEMENT	CY
416	CONCRETE JOINT SEALING	LF
418	DOWEL BAR RETROFIT	EA
425	DIAMOND GRINDING CONCRETE PAVEMENT	SF

APPROVED BY: DATE: 9/23/19

OKLAHOMA DEPARTMENT OF TRANSPORTATION
2009 SPECIFICATIONS

PORTLAND CEMENT CONCRETE
PAVEMENT REPAIR



DETAIL OF THE BAR JOINT

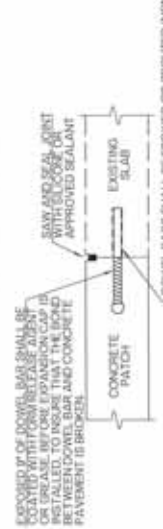
NOTE: LONGITUDINAL JOINT - THE BARS - NO. 5 (FORMED) REINFORCING STEEL BARS, 2'-0\"/>

18\"/>

18\"/>

18\"/>

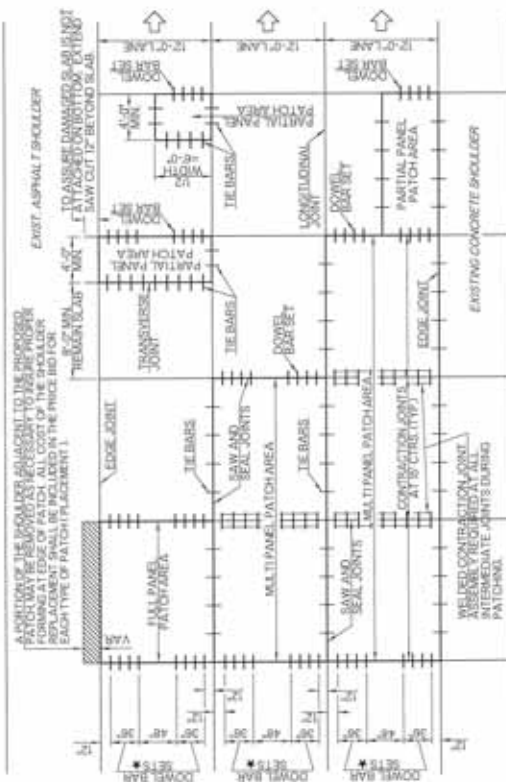
DETAIL OF DOWEL BAR WITH CAP



DETAIL OF DOWEL BAR AT CONSTRUCTION JOINT

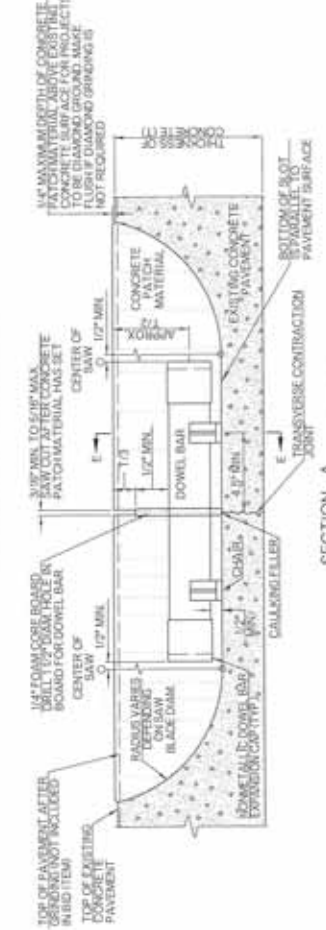
BASE REPAIR AND PREPARATION IN AREAS WHERE PATCHING IS REQUIRED. THE REMOVAL OF THE EXISTING PAVEMENT SHALL BE TO THE UNPAVED SURFACE, (G.T. SUBGRADE OR ADJACENT PAVEMENT), S.L. NO COMPENSATION WILL BE MADE TO CONTRACTOR FOR REPAIRING DAMAGE SUSTAINED DURING THE REMOVAL PROCESS.

COST OF ANY INCIDENTAL BASE REPAIR, LEVELING OR BACKFILLING UP TO 2\"/>

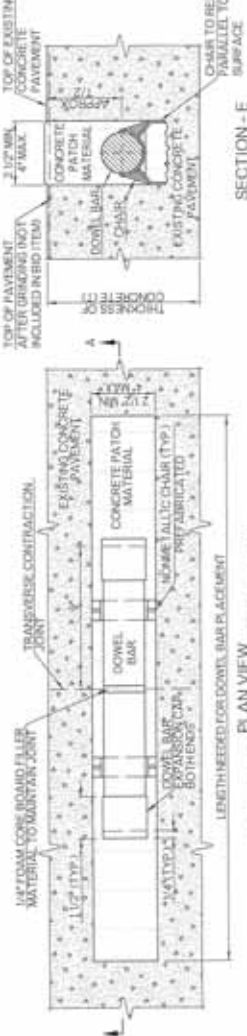


• DOWEL BAR SETS (4 BARS AT 12\"/>

SECTION - A



SECTION - E



PLAN VIEW

DOWEL BAR RETROFIT INSTALLATION

**RECOMMENDED CLEAR ZONE DISTANCE (FT.)
 FOR CONSTRUCTION WORK ZONES**

DESIGN SPEED	FILL SLOPES (V:H)			OUT SLOPES (V:H)		
	DESIGN ADT	15 TO FLATTER	13 TO FLATTER	13 TO FLATTER	15 TO FLATTER	15 TO FLATTER
40 MPH OR LESS	UNDER 750 750 - 1500 1500 - 6000 OVER 6000	4 6 7 8	4 6 7 8	4 6 7 8	4 6 7 8	4 6 7 8
45 - 50 MPH	UNDER 750 750 - 1500 1500 - 6000 OVER 6000	5 7 8 10	5 7 8 10	5 7 8 10	5 7 8 10	5 7 8 10
55 MPH	UNDER 750 750 - 1500 1500 - 6000 OVER 6000	6 8 10 11	6 8 10 11	6 8 10 11	6 8 10 11	6 8 10 11
60 MPH	UNDER 750 750 - 1500 1500 - 6000 OVER 6000	8 10 13 15	8 10 13 15	8 10 13 15	8 10 13 15	8 10 13 15
65 - 70 MPH	UNDER 750 750 - 1500 1500 - 6000 OVER 6000	9 12 14 17	9 12 14 17	9 12 14 17	9 12 14 17	9 12 14 17

* THE CLEAR ZONE MAY BE LIMITED TO 15' FOR PRACTICALITY AND TO PROVIDE A CONSISTENT ROADWAY TEMPLATE.
 FOR CLEAR ZONES, THE "DESIGN ADT" WILL BE THE TOTAL ADT ON TWO-WAY ROADWAYS AND DIRECTIONAL ADT ON ONE-WAY ROADWAYS.
 V:H = VERTICAL: HORIZONTAL

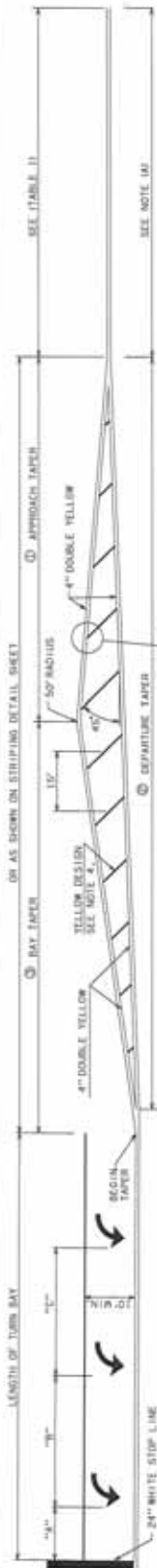
GENERAL NOTES

- EDGE DROP-OFF TREATMENTS SHOWN ON THIS STANDARD ARE INTENDED FOR TEMPORARY DROP-OFFS IN CONSTRUCTION WORK ZONES.
- DELINEATION DEVICES AND WARNING DEVICES WILL BE REQUIRED IN ACCORDANCE WITH M.T.C.D. AND APPLICABLE TRAFFIC STANDARDS.
- EDGE DROP-OFF SIGNS TO REMAIN IN PLACE UNTIL PERMANENT SHOULDER SHAPING IS COMPLETE.
- LANE/LANES SIGNS TO REMAIN IN PLACE UNTIL THIS SITE CONDITION IS NO LONGER VALID.
- THE FOLLOWING ARE THE ONLY ACCEPTABLE DELINEATION DEVICES FOR DROP-OFF APPLICATIONS AND SHALL BE PLACED ON TOP OF PAVEMENT SURFACE:
 - CONES
 - FLARES
 - TUBULAR WARNERS
 - VERTICAL PANELS
- ALL WEDGES FOR DROP-OFF TREATMENTS SHALL BE STABLE AND COMPACTED MATERIALS TO PREVENT TRAFFIC FROM COLLAPSE.
- THE CONTRACTOR MAY USE TREATMENT 1 IN LIEU OF WEDGE TREATMENT WHEN ALTERNATE CONSTRUCTION TRAFFIC CONTROL PLANS ARE APPROVED BY THE ENGINEER.
- DAILY INSPECTIONS SHALL BE CONDUCTED BY THE CONTRACTOR TO ASSURE THAT NO EXPOSURE, EXCESSIVE SLOPES, RUTTING OR OTHER DEFICIENCIES EXIST. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE SPACING OF THE DELINEATION DEVICES (IF 1) SHALL BE EQUAL TO THE DESIGN SPEED OF THE ROADWAY PERMITS.
- ALL WORKERS SHALL BE PROTECTED BY FLASHING LIGHTS WHEN WORKING ON CONSTRUCTION RELATED ITEMS AND IN AN AREA WHERE EDGE DROP-OFFS NEED TO BE REDUCED OR REMOVED.
- FOR ALL NON-INTERSTATE AND NON-DIVIDED HIGHWAYS A TRAFFIC LANE WIDTH OF 11' IS DESIRED. HOWEVER, ON A SITE BY SITE BASIS THE CONTRACTOR CAN ADJUST THE TRAFFIC LANE AND SHOULDER UP TO 10' TO 11' LESS THAN A 17' TRAFFIC LANE WIDTH.

APPROVED BY: **DOT**
 ROADWAY DESIGN DIVISION STANDARD
 DATE: 4/1/15

CROSS SECTION	CONDITION		DROP-OFF TREATMENT	SIGN
	DIFFERENTIAL	TIME		
TREATMENT 1	BETWEEN TRAFFIC LANES PAVEMENT DIFFERENTIAL LESS THAN OR EQUAL TO 2"	NON-WORKING HOURS NOTE FOR WORKING HOURS, USE DELINEATION DEVICE TREATMENT 2	NO WEDGE REQUIRED IF WEDGE TREATMENT FOR FILLED DROP-OFFS	W8-11 (SEE NOTE 4)
TREATMENT 2	INSIDE CONSTRUCTION CLEAR ZONE PAVEMENT EDGE DIFFERENTIAL LESS THAN OR EQUAL TO 2"	NON-WORKING AND WORKING HOURS	NO WEDGE REQUIRED	W8-17 (SEE NOTE 3)
TREATMENT 3 FOR POSTED SPEEDS 45 MPH OR LESS, NOT TO BE USED ON INTERSTATES.	INSIDE CONSTRUCTION CLEAR ZONE WITH DIFFERENTIAL GREATER THAN 2" AND LESS THAN OR EQUAL TO 18" NOTE FOR DIFFERENTIAL GREATER THAN 18" USE TREATMENT 4 OR 5	NON-WORKING HOURS WORKING HOURS	WEDGE TREATMENT SLOPE 4:1 H OR FLATTER NO WEDGE REQUIRED	W8-17 (SEE NOTE 3)
TREATMENT 4 WHEN NECESSARY, THE CONTRACTOR SHALL NARROW THE TRAFFIC LANE TO 10' IN ORDER TO ACHIEVE THIS TREATMENT. (SEE NOTE 1)	OUTSIDE CONSTRUCTION CLEAR ZONE ALL HEIGHTS OF EDGE DIFFERENTIAL	NON-WORKING AND WORKING HOURS WHERE PLANS REQUIRE ADJACENT LANE CLOSURE WITH CHANGELIZATION OR PARTIAL LANE CLOSURE WITH BARRIER	NO WEDGE REQUIRED	ONLY NORMAL CONSTRUCTION SIGNING REQUIRED
TREATMENT 5 WHEN NECESSARY, THE CONTRACTOR SHALL NARROW THE TRAFFIC LANE(S), IF IN ORDER TO ACHIEVE THIS TREATMENT. (SEE NOTE 1)	INSIDE CONSTRUCTION CLEAR ZONE POSITIVE BARRIER FOR SEPARATION ALL HEIGHTS OF EDGE DIFFERENTIAL	NON-WORKING AND WORKING HOURS WHERE PLANS REQUIRE ADJACENT LANE CLOSURE WITH CHANGELIZATION CLOSURE WITH BARRIER	NO WEDGE REQUIRED	ONLY NORMAL CONSTRUCTION SIGNING REQUIRED

REVISION	DATE
APPROVED	DATE
DESIGNED	DATE
CHECKED	DATE



LEFT TURN BAY AND STRIPED MEDIAN DETAIL
SEE PLAN FOR LENGTH OF LEFT TURN BAYS AND TAPERS ON STRIPED MEDIANS

① THE PREFERRED APPROACH TAPER RATE IS 1:1, WHERE V IS THE DESIGN SPEED. FOR V ≤ 40 MPH, IT IS ACCEPTABLE FOR THE APPROACH TAPER TO BE 1/4:1. ② THE PREFERRED DEPARTURE TAPER RATE IS 1:1, WHERE V IS THE DESIGN SPEED. FOR V ≤ 40 MPH, IT IS ACCEPTABLE FOR THE DEPARTURE TAPER TO BE 1/4:1. ③ SEE RECOMMENDED RAY TAPER RATES TABLE.

POSTED SPEED (MPH)	NO. PASS LENGTH (FT)
15	75
20	100
25	125
30	150
35	175
40	200
45	225
50	250
55	275
60	300

DESIGN SPEED (MPH)	TAPER RATE
V ≤ 30	1:1
30 < V ≤ 50	1/4:1
50 < V	1/2:1

THE FOLLOWING MINIMUM VALUES MAY APPLY IN RESTRICTED LOCATIONS:
1- RIGID-TURN LANES. A 4:1 RAY TAPER MAY BE USED WHERE PAINTED CHANNELIZATION IS USED.
2- LEFT-TURN LANES. IN SEVERELY RESTRICTED LOCATIONS, A 4:1 RAY TAPER MAY BE USED WHERE PAINTED CHANNELIZATION IS USED.
④ NO PASS LINE ON APPROACH SIDE WITH SKIP CENTER LINE ON DEPARTURE SIDE UNLESS DOUBLE YELLOW CENTER LINE IS REQUIRED.

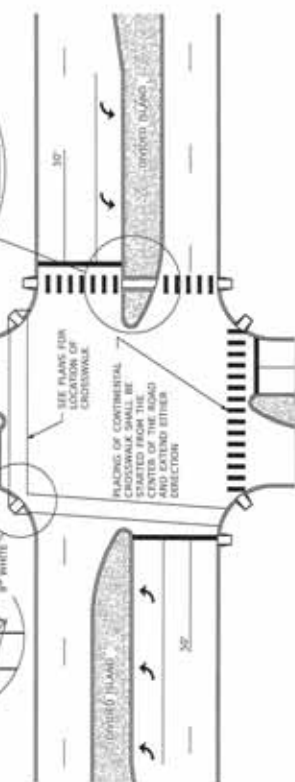
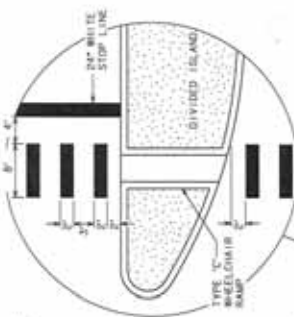
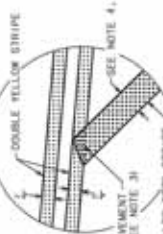
LENGTH OF BAY (FT.)	"A" (FT.)	"B" (FT.)	"C" (FT.)
75 TO 99	20	35	—
100 TO 149	20	35	35
150 TO 200	30	55	55



DASHED WHITE LANE LINE
TYPICAL CONCRETE PAVEMENT
MARKING DETAILS



DASHED WHITE LANE LINE
TYPICAL ASPHALT PAVEMENT
MARKING DETAILS



CROSSWALK INSTALLATIONS

FOR SPACING OF ARROWS
SEE "TURN BAY TABLE"

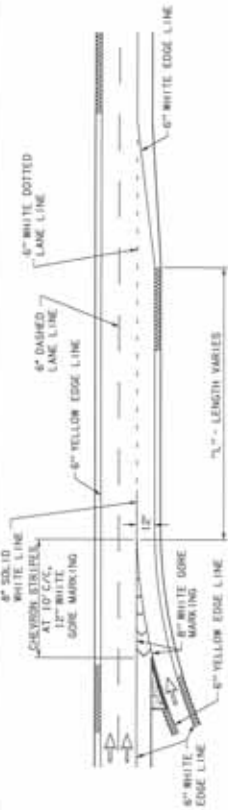
BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
B54(A)	TRAFFIC STRIPE (PAINT) (4" WIDE)	LF
B54(B)	TRAFFIC STRIPE (PAINT) (ARROW, WORDS, OR SYMBOLS)	EA
B55(A)	TRAFFIC STRIPE (PLASTIC) (4" WIDE)	LF
B55(A)	TRAFFIC STRIPE (PLASTIC) (6" WIDE)	LF
B55(A)	TRAFFIC STRIPE (PLASTIC) (8" WIDE)	LF
B55(A)	TRAFFIC STRIPE (PLASTIC) (10" WIDE)	LF
B55(A)	TRAFFIC STRIPE (PLASTIC) (12" WIDE)	LF
B55(B)	TRAFFIC STRIPE (PLASTIC) (ARROW)	EA
B55(B)	TRAFFIC STRIPE (PLASTIC) (WORDS)	EA
B56(A)	TRAFFIC STRIPE (MULTI-POLYMER) (4" WIDE)	LF
B56(A)	TRAFFIC STRIPE (MULTI-POLYMER) (6" WIDE)	LF
B56(A)	TRAFFIC STRIPE (MULTI-POLYMER) (8" WIDE)	LF
B56(A)	TRAFFIC STRIPE (MULTI-POLYMER) (12" WIDE)	LF
B56(B)	TRAFFIC STRIPE (MULTI-POLYMER) (ARROW, WORDS, OR SYMBOLS)	EA

DESIGNED BY: *[Signature]* DATE: 1/1/19
TRAFFIC STRIPES
PAVEMENT MARKING
(CROSSWALKS AND LEFT TURN BAY)

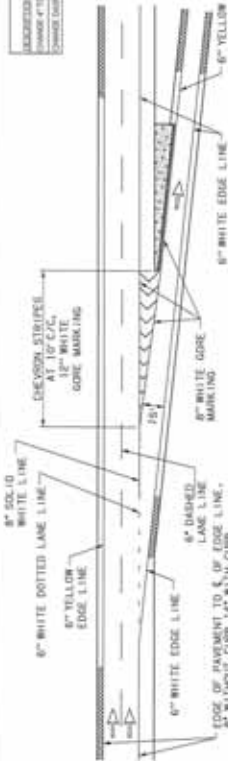
DOT

2005 SPECIFICATIONS

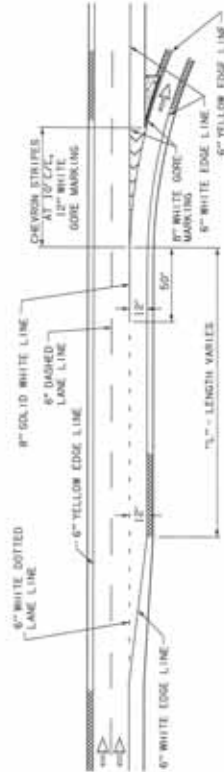
PM1-1 1-101



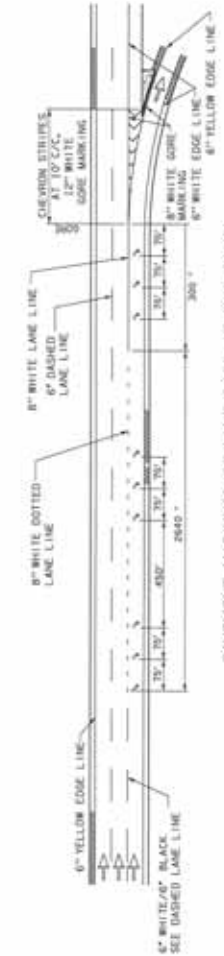
PAVEMENT MARKINGS OF PARALLEL ACCELERATION LANE



PAVEMENT MARKINGS OF TAPERED DECELERATION LANE



PAVEMENT MARKINGS OF PARALLEL DECELERATION LANE



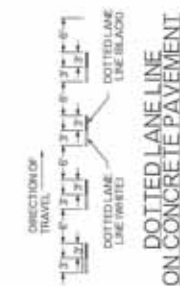
PAVEMENT MARKINGS OF LANE DROP AT EXIT RAMP



PAVEMENT MARKINGS OF TAPERED ACCELERATION LANE



PAVEMENT MARKING DETAILS



DOTTED LANE LINE ON CONCRETE PAVEMENT



DASHED LANE LINE ON ASPHALT PAVEMENT

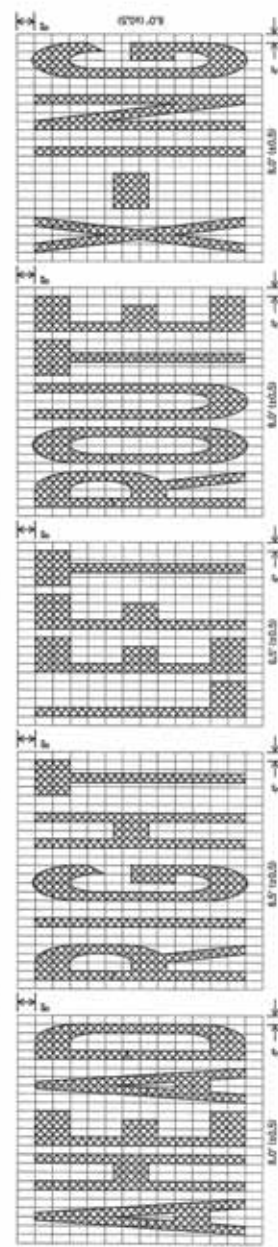
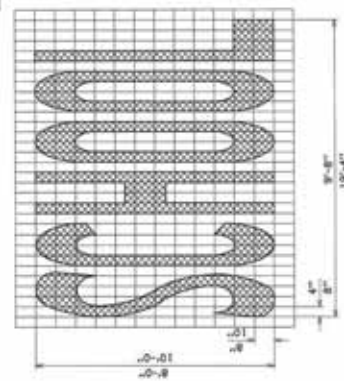
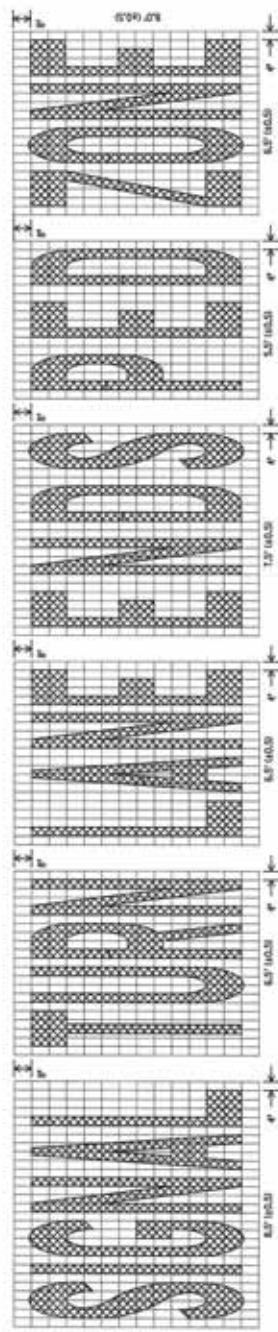
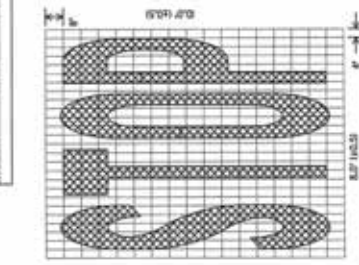
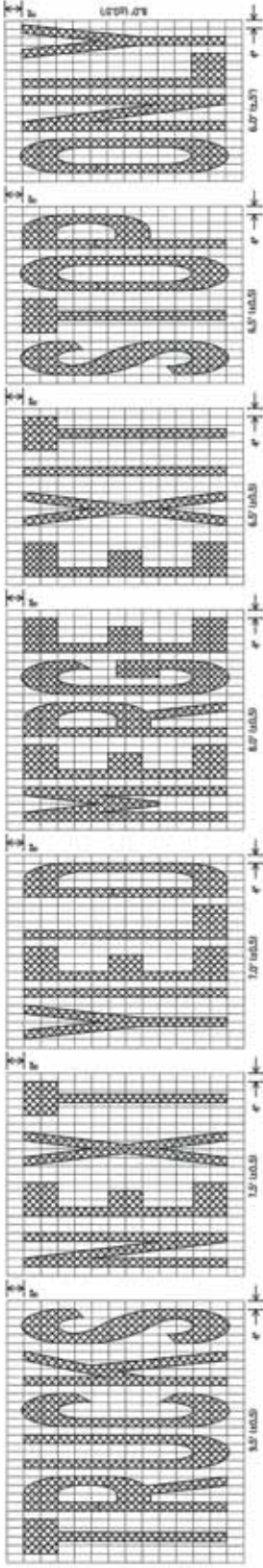


DOTTED LANE LINE ON ASPHALT PAVEMENT

ITEM NO.	ITEM	UNIT
B54BP	TRAFFIC STRIPE (PAINT) 18" WIDE	EA
B55AI	TRAFFIC STRIPE (PLASTIC) 18" WIDE	LF
B55AI	TRAFFIC STRIPE (PLASTIC) 18" WIDE	LF
B55AI	TRAFFIC STRIPE (PLASTIC) 12" WIDE	LF
B55AI	TRAFFIC STRIPE (PLASTIC) 12" WIDE	LF
B55BI	TRAFFIC STRIPE (PAINT) 18" WIDE	EA
B56AI	TRAFFIC STRIPE (MULTI-POLYMER) 18" WIDE	LF
B56AI	TRAFFIC STRIPE (MULTI-POLYMER) 12" WIDE	LF
B56AI	TRAFFIC STRIPE (MULTI-POLYMER) 12" WIDE	LF
B56AI	TRAFFIC STRIPE (MULTI-POLYMER) 12" WIDE	LF
B56BI	TRAFFIC STRIPE (MULTI-POLYMER) 18" WIDE	EA

BASIS OF PAYMENT



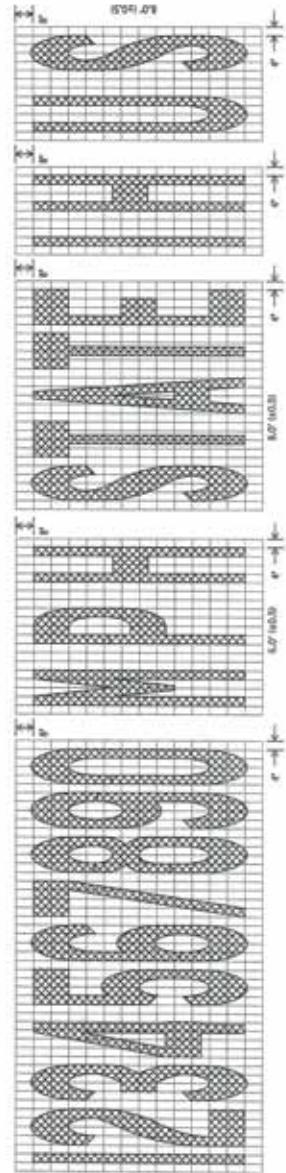


SINGLE LANE TOP DIMENSION
TWO LANE BOTTOM DIMENSION

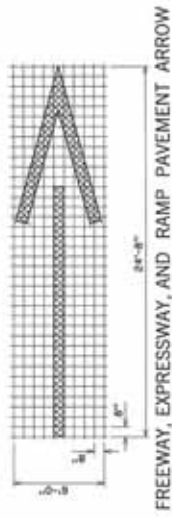
BASIS OF PAYMENT	
ITEM NO.	ITEM
85400	TRAFFIC STRIPE (PAINT) (ARROW, WORDS, OR SYMBOLS)
85500	TRAFFIC STRIPE (PLASTIC) (ARROW)
85600	TRAFFIC STRIPE (MULTI-POLYMER) (SYMBOLS, WORDS, ETC.)

GENERAL NOTES

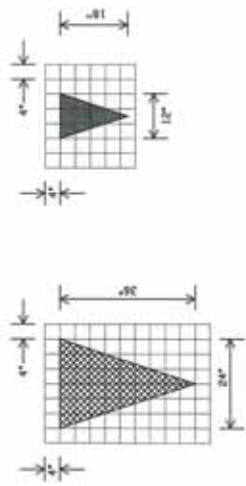
1. PAVEMENT MARKINGS SHALL BE WHITE RETROREFLECTORIZED PLASTIC UNLESS OTHERWISE SPECIFIED. WHEN THE MESSAGE CONSISTS OF MORE THAN ONE WORD, IT SHOULD BE SPACED 1/2". THE FIRST WORD SHOULD BE SPACED 1/2" FROM THE LEFT EDGE. SPACE BETWEEN LINES SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS.
2. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
3. ALL DIMENSIONS ARE TYPICAL FOR SINGLE LANE UNLESS OTHERWISE NOTED.



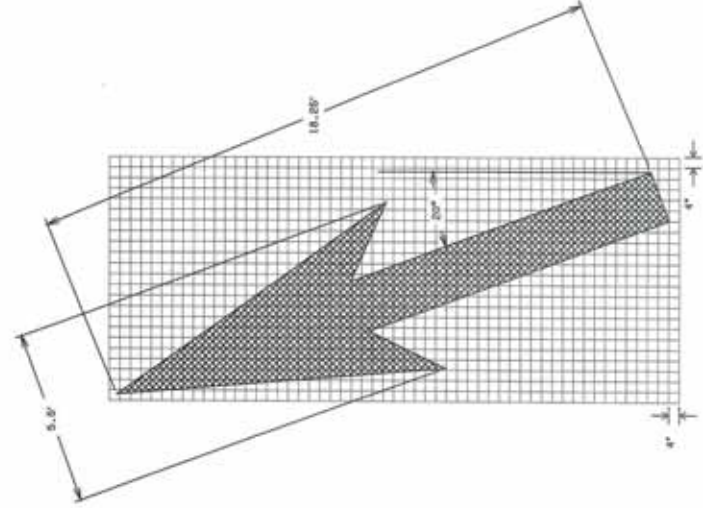
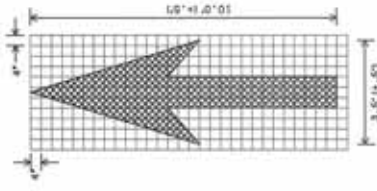
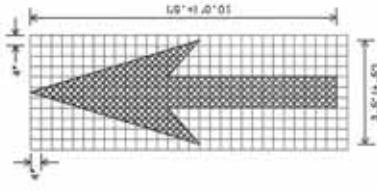
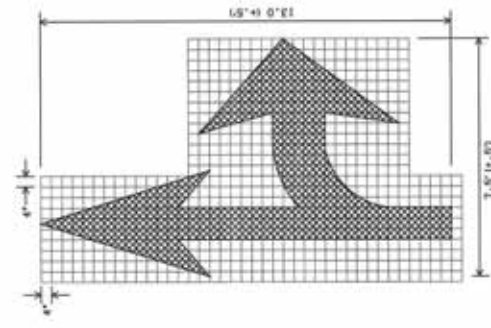
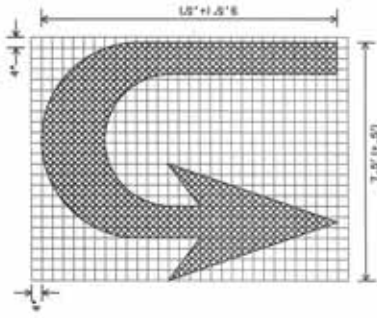
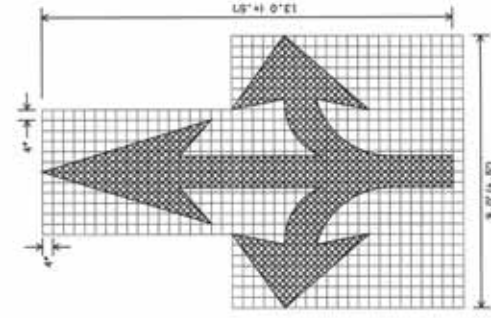
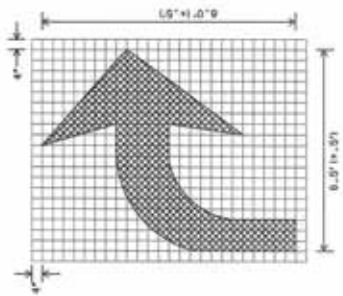
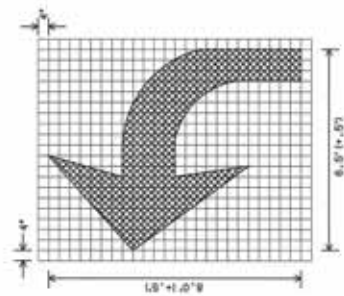
APPROVED BY
TRAFFIC ENGINEER
David Smith DATE 8/1/10
TRAFFIC STANDARD
PAVEMENT MARKING
(WORDS AND NUMERALS)



FREEWAY, EXPRESSWAY, AND RAMP PAVEMENT ARROW



MINIMUM YIELD LINE TRIANGLE
MAXIMUM YIELD LINE TRIANGLE



LANE-REDUCTION ARROW

GENERAL NOTE

1. PAVEMENT MARKINGS SHALL BE WHITE RETROREFLECTORIZED PLASTIC UNLESS OTHERWISE SPECIFIED. WHEN THE MESSAGE CONSISTS OF MORE THAN ONE WORD, IT SHOULD READ "UP" I.E., THE FIRST WORD SHOULD BE NEAREST THE DRIVER. THE SPACE BETWEEN LINES SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS.
2. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
3. ALL DIMENSIONS ARE TYPICAL FOR SINGLE LANE UNLESS OTHERWISE NOTED.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
854(B)	TRAFFIC STRIPE (PAINT) (ARROW, WORDS, OR SYMBOLS)	EA
855(B)	TRAFFIC STRIPE (PLASTIC) (ARROW)	EA
855(B)	TRAFFIC STRIPE (PLASTIC) (SYMBOLS)	EA
855(B)	TRAFFIC STRIPE (MULTI-POLYMER) (SYMBOLS, WORDS, ETC)	EA



APPROVED BY
TRAFFIC ENGINEER
TRAFFIC STANDARD
PAVEMENT MARKING
(ARROWS)

2009 SPECIFICATIONS

