

WICHIITA

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SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, MARCH 1, 1993, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, DECEMBER, 1993)

LIMITS: FROM STATE HIGHWAY (SH) 25 TO
BUSINESS (BU) 287H
FOR THE CONSTRUCTION OF
REHABILITATION OF EXISTING ROAD
CONSISTING OF 11" CRCP OVERLAY, HMMC BOND BREAKER/LEVEL-UP
AND SAFETY END TREAT DRAINAGE STRUCTURES.

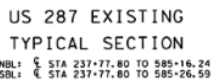


RM 316+0.028

NO RAILROAD CROSSINGS

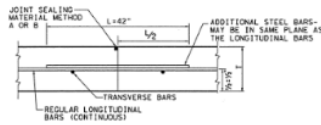
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STATE	STATE	FEDERAL AID PROJECT NO.	ROUTE NO.
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STATE	COUNTY	STATE	ROUTE NO.
WYS	WICHITA	20043-OL-066	US 2

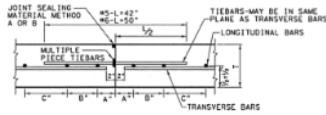


TYPICAL SECTION

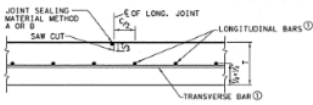
FEDERAL AID PROJECT NO.		SHEET NO.	
NH 2001 16291		2	
STATE	COUNTY		
TEXAS	ROCKWELL		
CONTRACT NO.	SECTION	JOB NO.	REMARKS NO.
00000	000	000	000



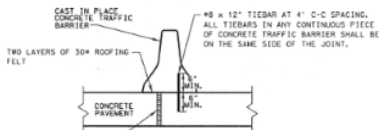
TRANSVERSE CONSTRUCTION JOINT
SECTION X - X



LONGITUDINAL CONSTRUCTION JOINT
SECTION Y - Y

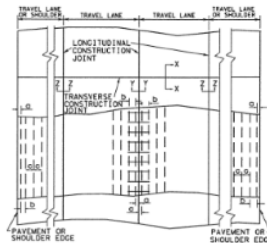


LONGITUDINAL CONSTRUCTION JOINT
SECTION Z - Z



FREE LONGITUDINAL JOINT WITH NO TIEBARS. LOCATION OF THE JOINT WILL BE AS DIRECTED BY THE ENGINEER FORMED WITH PROFORMED FIBER BOARD OR ASPHALT BOARD IN ACCORDANCE WITH ITEM "JOINT SEALANT AND FILLERS".

FREE LONGITUDINAL JOINT DETAIL



TYPICAL PAVEMENT LAYOUT

TABLE NO. 1 LONGITUDINAL STEEL						
LONGITUDINAL STEEL SIZE AND SPACING						
SLAB THICKNESS AND BAR SIZE	REGULAR REINFORCEMENT	FIRST SECOND SPACING AT EDGE OR JOINT		ADDITIONAL REINFORCEMENT AT TRANSVERSE CONST. JOINT		
T INCHES	BAR NUMBER	SPACING "S" INCHES	SPACING "S" INCHES	SPACING "S" INCHES	LENGTH "L" INCHES	"L" INCHES
8	5	8	3 TO 4	3 TO 5	15	20
10	6	7.5	3 TO 4	3 TO 5	15	20
12	8	6.5	3 TO 4	3 TO 5	NONE	-
14	9	6	3 TO 4	3 TO 5	NONE	-
16	11	5.5	3 TO 4	3 TO 5	NONE	-

TABLE NO. 2 ALLOWABLE PAVEMENT WIDTH (W) IN FT.						
FOR TRANSVERSE BAR SPACING (84) NOT SHOWN USE FORMULAE.						
SLAB THICKNESS	8"	9"	10"	11"	12"	13"
#5 BAR AT 36"	62	55	50	45	41	38
#5 BAR AT 24"	93	83	74	68	62	57
#6 BAR AT 36"	88	78	70	64	59	54
#6 BAR AT 24"	126	117	105	96	88	81

TRANSVERSE STEEL AND TIEBAR SPACINGS SHALL BE BASED ON THE FOLLOWING FORMULAE.

FOR #5 BARS $W = \frac{17857 N}{T B}$ FOR #6 BARS $W = \frac{25345 N}{T B}$

W = ALLOWABLE WIDTH OF PAVEMENT SLAB WIDTH IN FEET (MEASURED EDGE TO EDGE OR EDGE TO JOINT)

N = NUMBER OF LAYERS OF STEEL (1 OR 2)

T = THICKNESS OF SLAB IN INCHES

B = BAR SPACING IN INCHES

MAXIMUM B = 36"

MINIMUM B = 12"

GENERAL NOTES

- FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCEMENT, REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE" AND "REINFORCING STEEL".
- LONGITUDINAL AND TRANSVERSE BARS SHALL BE DEFORMED STEEL CONFORMING TO ASTM A-615 (GRADE 60) OR ASTM A-616 (GRADE 60).
- DETAILS FOR PAVEMENT WIDTH, PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SHALL BE SHOWN ELSEWHERE IN THE PLANS.
- SPLICES SHALL BE A MINIMUM OF 33 TIMES THE NOMINAL STEEL DIAMETER.
- CONSOLIDATION WITH HAND-MANIPULATED MECHANICAL VIBRATORS IS REQUIRED ADJACENT TO ALL TRANSVERSE CONSTRUCTION JOINTS.
- THE DETAIL FOR THE JOINT SEALANT AND RESERVOIR WILL BE SHOWN IN CONCRETE PAVEMENT DETAIL, JOINT SEALANT.
- PAVEMENT WIDTHS OF MORE THAN 16' SHALL HAVE A LONGITUDINAL JOINT (SECTION Z-Z OR Y-Y). THESE JOINTS SHALL BE LOCATED WITHIN 6' OF THE LANE LINE UNLESS THE JOINT LOCATION IS SHOWN ELSEWHERE ON THE PLANS.
- THE SAW CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.
- WITHIN ANY AREA BOUNDED BY TWO FEET OF PAVEMENT LENGTH MEASURED PARALLEL TO THE CENTERLINE AND TWELVE FEET OF WIDTH MEASURED PERPENDICULAR TO THE PAVEMENT CENTERLINE, NOT OVER 33% OF THE REGULAR LONGITUDINAL STEEL SHALL BE SPLICED.
- MULTIPLE PIECE TIEBARS SHALL BE USED AT LONGITUDINAL CONSTRUCTION JOINTS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- FOR THE 12" SLAB THICKNESS, WHEN STANDARD DETAIL CPCR(11)-94 IS INCLUDED IN THE PLANS, THE CONTRACTOR MAY CHOOSE EITHER THE ONE OR TWO LAYER PLACEMENT OF REINFORCING STEEL UNLESS OTHERWISE SPECIFIED.

FOOTNOTES

- ① WHEN MACHINE PLACING OF THE STEEL REINFORCEMENT IS USED, THE USE OF CHAIRS WILL NOT BE REQUIRED AND THE TRANSVERSE STEEL MAY BE PLACED ABOVE OR BELOW THE LONGITUDINAL STEEL. THE VERTICAL LOCATION OF THE BARS WILL BE APPROVED BY THE ENGINEER.

Texas Department of Transportation
Design Division (Pavement)

CONCRETE PAVEMENT DETAILS
CONTINUOUSLY REINFORCED STEEL BARS

ONE LAYER PLACEMENT
T-8, 9, 10, 11, 12, & 13 INCHES

CPCR (11)-94

03/0001 SEPTEMBER 1994 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10 1-11 1-12 1-13 1-14 1-15 1-16 1-17 1-18 1-19 1-20 1-21 1-22 1-23 1-24 1-25 1-26 1-27 1-28 1-29 1-30 1-31 1-32 1-33 1-34 1-35 1-36 1-37 1-38 1-39 1-40 1-41 1-42 1-43 1-44 1-45 1-46 1-47 1-48 1-49 1-50 1-51 1-52 1-53 1-54 1-55 1-56 1-57 1-58 1-59 1-60 1-61 1-62 1-63 1-64 1-65 1-66 1-67 1-68 1-69 1-70 1-71 1-72 1-73 1-74 1-75 1-76 1-77 1-78 1-79 1-80 1-81 1-82 1-83 1-84 1-85 1-86 1-87 1-88 1-89 1-90 1-91 1-92 1-93 1-94 1-95 1-96 1-97 1-98 1-99 1-100 1-101 1-102 1-103 1-104 1-105 1-106 1-107 1-108 1-109 1-110 1-111 1-112 1-113 1-114 1-115 1-116 1-117 1-118 1-119 1-120 1-121 1-122 1-123 1-124 1-125 1-126 1-127 1-128 1-129 1-130 1-131 1-132 1-133 1-134 1-135 1-136 1-137 1-138 1-139 1-140 1-141 1-142 1-143 1-144 1-145 1-146 1-147 1-148 1-149 1-150 1-151 1-152 1-153 1-154 1-155 1-156 1-157 1-158 1-159 1-160 1-161 1-162 1-163 1-164 1-165 1-166 1-167 1-168 1-169 1-170 1-171 1-172 1-173 1-174 1-175 1-176 1-177 1-178 1-179 1-180 1-181 1-182 1-183 1-184 1-185 1-186 1-187 1-188 1-189 1-190 1-191 1-192 1-193 1-194 1-195 1-196 1-197 1-198 1-199 1-200 1-201 1-202 1-203 1-204 1-205 1-206 1-207 1-208 1-209 1-210 1-211 1-212 1-213 1-214 1-215 1-216 1-217 1-218 1-219 1-220 1-221 1-222 1-223 1-224 1-225 1-226 1-227 1-228 1-229 1-230 1-231 1-232 1-233 1-234 1-235 1-236 1-237 1-238 1-239 1-240 1-241 1-242 1-243 1-244 1-245 1-246 1-247 1-248 1-249 1-250 1-251 1-252 1-253 1-254 1-255 1-256 1-257 1-258 1-259 1-260 1-261 1-262 1-263 1-264 1-265 1-266 1-267 1-268 1-269 1-270 1-271 1-272 1-273 1-274 1-275 1-276 1-277 1-278 1-279 1-280 1-281 1-282 1-283 1-284 1-285 1-286 1-287 1-288 1-289 1-290 1-291 1-292 1-293 1-294 1-295 1-296 1-297 1-298 1-299 1-300 1-301 1-302 1-303 1-304 1-305 1-306 1-307 1-308 1-309 1-310 1-311 1-312 1-313 1-314 1-315 1-316 1-317 1-318 1-319 1-320 1-321 1-322 1-323 1-324 1-325 1-326 1-327 1-328 1-329 1-330 1-331 1-332 1-333 1-334 1-335 1-336 1-337 1-338 1-339 1-340 1-341 1-342 1-343 1-344 1-345 1-346 1-347 1-348 1-349 1-350 1-351 1-352 1-353 1-354 1-355 1-356 1-357 1-358 1-359 1-360 1-361 1-362 1-363 1-364 1-365 1-366 1-367 1-368 1-369 1-370 1-371 1-372 1-373 1-374 1-375 1-376 1-377 1-378 1-379 1-380 1-381 1-382 1-383 1-384 1-385 1-386 1-387 1-388 1-389 1-390 1-391 1-392 1-393 1-394 1-395 1-396 1-397 1-398 1-399 1-400 1-401 1-402 1-403 1-404 1-405 1-406 1-407 1-408 1-409 1-410 1-411 1-412 1-413 1-414 1-415 1-416 1-417 1-418 1-419 1-420 1-421 1-422 1-423 1-424 1-425 1-426 1-427 1-428 1-429 1-430 1-431 1-432 1-433 1-434 1-435 1-436 1-437 1-438 1-439 1-440 1-441 1-442 1-443 1-444 1-445 1-446 1-447 1-448 1-449 1-450 1-451 1-452 1-453 1-454 1-455 1-456 1-457 1-458 1-459 1-460 1-461 1-462 1-463 1-464 1-465 1-466 1-467 1-468 1-469 1-470 1-471 1-472 1-473 1-474 1-475 1-476 1-477 1-478 1-479 1-480 1-481 1-482 1-483 1-484 1-485 1-486 1-487 1-488 1-489 1-490 1-491 1-492 1-493 1-494 1-495 1-496 1-497 1-498 1-499 1-500 1-501 1-502 1-503 1-504 1-505 1-506 1-507 1-508 1-509 1-510 1-511 1-512 1-513 1-514 1-515 1-516 1-517 1-518 1-519 1-520 1-521 1-522 1-523 1-524 1-525 1-526 1-527 1-528 1-529 1-530 1-531 1-532 1-533 1-534 1-535 1-536 1-537 1-538 1-539 1-540 1-541 1-542 1-543 1-544 1-545 1-546 1-547 1-548 1-549 1-550 1-551 1-552 1-553 1-554 1-555 1-556 1-557 1-558 1-559 1-560 1-561 1-562 1-563 1-564 1-565 1-566 1-567 1-568 1-569 1-570 1-571 1-572 1-573 1-574 1-575 1-576 1-577 1-578 1-579 1-580 1-581 1-582 1-583 1-584 1-585 1-586 1-587 1-588 1-589 1-590 1-591 1-592 1-593 1-594 1-595 1-596 1-597 1-598 1-599 1-600 1-601 1-602 1-603 1-604 1-605 1-606 1-607 1-608 1-609 1-610 1-611 1-612 1-613 1-614 1-615 1-616 1-617 1-618 1-619 1-620 1-621 1-622 1-623 1-624 1-625 1-626 1-627 1-628 1-629 1-630 1-631 1-632 1-633 1-634 1-635 1-636 1-637 1-638 1-639 1-640 1-641 1-642 1-643 1-644 1-645 1-646 1-647 1-648 1-649 1-650 1-651 1-652 1-653 1-654 1-655 1-656 1-657 1-658 1-659 1-660 1-661 1-662 1-663 1-664 1-665 1-666 1-667 1-668 1-669 1-670 1-671 1-672 1-673 1-674 1-675 1-676 1-677 1-678 1-679 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