	SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)													] '									
	ABUTMENT TO ABUTMENT ABUTMENT TO STANDARD PIER									PIER		ABUTMENT TO STEPPED PIER									]		
SPAN	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL 1	WEATHERING STEEL FIXED BEARING ASSEMBLY	CLASS AA CONCRETE	REINFORCING STEEL (5)	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL 1	WEATHERING STEEL FIXED BEARING ASSEMBLY	WEATHERING STEEL EXPANSION BEARING ASSEMBLY	ELASTOMERIC BEARING PADS	CLASS AA CONCRETE	REINFORCING STEEL 6	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL 1	WEATHERING STEEL FIXED BEARING ASSEMBLY	WEATHERING STEEL EXPANSION BEARING ASSEMBLY	ELASTOMERIC BEARING PADS (4)	CLASS AA CONCRETE	REINFORCING STEEL 6	
	(SY)	(LF)	(LB)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(EA)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(EA)	(EA)	(CY)	(LB)	4
30	94.9	63.0	10,180	8	45.7	6,660	91.0	61.5	11,410	4	4	4	35.9	8,580	92.1	62.2	11,410	4	4	4	36.2	8,610	4
35	110.5	73.0	11,640	8	50.1	7,500	106.6	71.5	12,860	4	4	4	40.3	9,420	107.6	72.2	12,860	4	4	4	40.5	9,450	4
40'	126.0	83.0	14,370	8	54.4	8,500	122.2	81.5	15,580	4	4	4	44.6	10,420	123.2	82.2	15,580	4	4	4	44.9	10,450	4
45	141.6	93.0	17,490	8	59.6	9,340	137.7	91.5	18,500	4	4	4	49.4	11,250	138.8	92.2	18,500	4	4	4	49.7	11,290	4
50'	157.2	103.0	22,280	8	64.7	10,330	153.3	101.5	23,290	4	4	4	54.2	12,320	154.3	102.2	23,290	4	4	4	54.4	12,360	4
55'	172.7	113.0	29,340	8	72.3	11,370	168.8	111.5	30,320	4	4	4	60.1	13,360	169.9	112.2	30,320	4	4	4	60.4	13,400	4
60'	188.3	123.0	35,220	8	77.6	12,520	184.4	121.5	36,200	4	4	4	64.9	14,360	185.4	122.2	36,200	4	4	4	65.2	14,390	4
65	203.8	133.0	39,190	8	82.6	13,360	199.9	131.5	40,200	4	4	4	69.7	15,200	201.0	132.2	40,200	4	4	4	69.9	15,230	1
70'	219.4	143.0	46,170	8	87.0	14,350	215.5	141.5	47,220	4	4	4	74.1	16,270	216.5	142.2	47,220	4	4	4	74.3	16,300	
75	234.9	153.0	54,330	8	92.1	15,190	231.0	151.5	55,400	4	4	4	78.8	17,110	232.1	152.2	55,400	4	4	4	79.0	17,140	
80'	250.5	163.0	64,160	8	96.5	16,190	246.6	161.5	65,220	4	4	4	83.2	18,110	247.6	162.2	65,220	4	4	4	83.5	18,140	
85	266.0	173.0	73,570	8	101.1	17,030	262.2	171.5	74,600	4	4	4	87.8	18,940	263.2	172.2	74,600	4	4	4	88.1	18,980	
90'	281.6	183.0	83,370	8	105.6	18,020	277.7	181.5	84,380	4	4	4	92.2	19,940	278.8	182.2	84,380	4	4	4	92.5	19,970	_
95'	297.2	193.0	100,550	8	110.0	18,860	293.3	191.5	101,550	4	4	4	96.6	20,780	294.3	192.2	101,550	4	4	4	96.9	20,810	
100'	312.7	203.0	105,440	8	114.4	19,850	308.8	201.5	106,470	4	4	4	101.0	21,770	309.9	202.2	106,470	4	4	4	101.3	21,810	

	SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)																				
	STANDARD PIER TO STANDARD PIER					STANDARD PIER TO STEPPED PIER							STEPPED PIER TO STEPPED PIER								
SPAN	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	WEATHERING STEEL EXPANSION BEARING ASSEMBLY	ELASTOMERIC BEARING PADS 4	CLASS AA CONCRETE	REINFORCING STEEL 6	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	WEATHERING STEEL EXPANSION BEARING ASSEMBLY	ELASTOMERIC BEARING PADS 4	CLASS AA CONCRETE	REINFORCING STEEL 6	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	WEATHERING STEEL EXPANSION BEARING ASSEMBLY	ELASTOMERIC BEARING PADS 4	CLASS AA CONCRETE	REINFORCING STEEL 6
	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)
30	87.2	60.0	12,380	8	8	26.1	10,420	88.2	60.7	12,640	8	8	26.4	10,450	89.2	61.4	12,380	8	8	26.7	10,490
35	102.7	70.0	13,810	8	8	30.5	11,260	103.8	70.7	14,070	8	8	30.7	11,290	104.8	71.4	13,810	8	8	31.0	11,330
40'	118.3	80.0	16,520	8	8	34.8	12,260	119.3	80.7	16,780	8	8	35.1	12,290	120.3	81.4	16,520	8	8	35.4	12,320
45	133.8	90.0	19,470	8	8	39.2	13,090	134.9	90.7	19,730	8	8	39.5	13,130	135.9	91.4	19,470	8	8	39.8	13,160
50'	149.4	100.0	24,270	8	8	43.6	14,170	150.4	100.7	24,530	8	8	43.8	14,200	151.5	101.4	24,270	8	8	44.1	14,230
55'	164.9	110.0	31,310	8	8	47.9	15,210	166.0	110.7	31,570	8	8	48.2	15,240	167.0	111.4	31,310	8	8	48.5	15,270
60'	180.5	120.0	37,210	8	8	52.3	16,200	181.5	120.7	37,470	8	8	52.6	16,230	182.6	121.4	37,210	8	8	52.9	16,270
65	196.0	130.0	41,240	8	8	56.7	17,040	197.1	130.7	41,500	8	8	57.0	17,080	198.1	131.4	41,240	8	8	57.3	17,110
70'	211.6	140.0	48,340	8	8	61.1	18,110	212.6	140.7	48,600	8	8	61.4	18,140	213.7	141.4	48,340	8	8	61.6	18,180
75'	227.2	150.0	56,540	8	8	65.4	18,950	228.2	150.7	56,800	8	8	65.7	18,980	229.2	151.4	56,540	8	8	66.0	19,020
80'	242.7	160.0	66,350	8	8	69.8	19,950	243.8	160.7	66,610	8	8	70.1	19,980	244.8	161.4	66,350	8	8	70.4	20,010
85	258.3	170.0	75,720	8	8	74.5	20,780	259.3	170.7	75,980	8	8	74.8	20,820	260.3	171.4	75,720	8	8	75.1	20,850
90'	273.8	180.0	85,500	8	8	78.9	21,780	274.9	180.7	85,760	8	8	79.1	21,810	275.9	181.4	85,500	8	8	79.4	21,850
95'	289.4	190.0	102,680	8	8	83.2	22,620	290.4	190.7	102,940	8	8	83.5	22,650	291.5	191.4	102,680	8	8	83.8	22,680
100	304.9	200.0	107,600	8	8	87.6	23,620	306.0	200.7	107,860	8	8	87.9	23,650	307.0	201.4	107,600	8	8	88.2	23,680

SPAN WEATHERING STEEL STEEL EXPANSION BEARING ASSEMBLY (LB) (LB)	SUMMARY OF QUANTITIES BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)											
	SPAN	STEEL FIXED BEARING ASSEMBLY	STEEL EXPANSION BEARING ASSEMBLY									
		(LB)	(LB)									
30' THRU 90' 80 150	30' THRU 90'	80	150									
95' AND 100' 80 160	95' AND 100'	80	160									

- OUANTITIES SHOWN INCLUDE WEIGHT OF STEEL ANGLE BUMPERS AT ABUTMENT ENDS OF DECK SLAB. FOR EACH STEEL ANGLE BUMPER OMITTED FROM END OF DECK SLAB, DEDUCT 130 POUNDS FROM THE QUANTITIES SHOWN.
- (2) AT THE ABUTMENTS, PROVIDE AND INSTALL FIXED BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS DETAILED IN THE PLANS. SEE SUMMARY FOR THE ESTIMATED TOTAL AMOUNT OF STRUCTURAL STEEL PER EACH FIXED BEARING ASSEMBLY. ALL COST OF PROVIDING AND INSTALLING THE FIXED BEARING ASSEMBLIES INCLUDING THE COST OF ANCHOR PLATES, ANCHOR BARS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "WEATHERING STEEL FIXED BEARING ASSEMBLY." BFARING ASSEMBLY."
- 3 AT THE PIERS, PROVIDE AND INSTALL EXPANSION BEARING
  ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS
  DETAILED IN THE PLANS. SEE SUMMARY FOR THE ESTIMATED
  TOTAL AMOUNT OF STRUCTURAL STEEL PER EACH EXPANSION
  BEARING ASSEMBLY. ALL COST OF PROVIDING AND
  INSTALLING THE EXPANSION BEARING ASSEMBLIES INCLUDING
  THE COST OF STEEL REINFORCED ELASTOMERIC BEARING
  PADS, ANCHOR PLATES, CONTACT PLATES, ANCHOR BOLTS,
  NUTS, WASHERS, MATERIAL, LABOR, EQUIPMENT AND
  INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER
  EACH OF "WEATHERING STEEL EXPANSION BEARING ASSEMBLY."
- 4) PROVIDE AND INSTALL ELASTOMERIC BEARING PADS
  BETWEEN THE TOP SURFACE OF THE ROLLED BEAMS AND THE
  BOTTOM SURFACE OF THE DECK SLAB. THE ELASTOMERIC
  BEARING PADS ARE TO BE OF THE SIZE AND SHAPE AS
  DETAILED IN THE PLANS AND LOCATED AT EACH BEAM END
  ABOVE THE PIERS. ALL COST OF PROVIDING AND
  INSTALLING THE ELASTOMERIC BEARING PADS INCLUDING
  THE COST OF ELASTOMERIC BEARING PADS, MATTERIAL,
  LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED
  IN THE LINIT PRICE RID PER FACH OF "FLASTOMERIC BEARING IN THE UNIT PRICE BID PER EACH OF "ELASTOMERIC BEARING
- (5) QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
  30' THRU 55' SPANS NO LAP SPLICES
  60' THRU 100' SPANS 1 LAP SPLICE
- © QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
  30' THRU 45' SPANS ½ LAP SPLICE
  50' THRU 65' SPANS 1 LAP SPLICE
  70' THRU 100' SPANS 1½ LAP SPLICES
  LAP SPLICES ACCOUNT FOR ADJACENT SPAN COMBINATIONS
  AND ARE APPROXIMATE. PAYMENT FOR "REINFORCING
  STEEL" WHILD BE RASED ON PLAN QUANTITY STEEL" WILL BE BASED ON PLAN QUANTITY.

PROVED BY BRIDGE ENGINEER LOCALT & durch

OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)

SUPERSTRUCTURE QUANTITIES ROLLED BEAMS

32' CLEAR ROADWAY - INTEGRAL - SKEWED O'

DATE **9-9-2011**