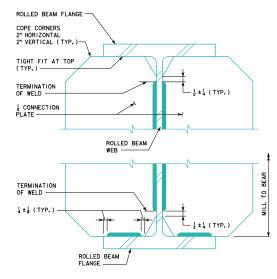
IO SKEW			DIAPH		— .	GHTS					
(WEIGHT IN LBS.INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS)											
D. A. D. I. D. A. D. A.	BRIDGE LENGTH										
DIAPHRAGM	160′-0	180′-0	200′-0	220'-0	240'-0	260'-0	280′-0	300′-0	320′-0	340′-0	
ROLLED SHAPE	14,611	16,038	19,357	19,618	24,266	27,684	29,751	29,752	33,876	43,460	
BENT PLATE	13,248	14,480	16,144	16,405	20,091	22,034	23,608	23,609	26,748	38,497	

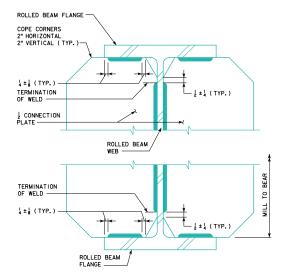
20 SKEW	20 SKEW DIAPHRAGM WEIGHTS									
( WEIGHT IN LBS. INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS )										
DIABUDAGU	BRIDGE LENGTH									
DIAPHRAGM	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0	320'-0	340′-0
ROLLED SHAPE	14,799	16,226	19,575	19,836	24,484	27,928	29,994	29,996	34,120	43,745
BENT PLATE	13,430	14,663	16,339	16,600	20,286	22,243	23,817	23,818	26,957	38,763

30 SKEW	DIAI HILAGM WEIGHTS											
(WEIGHT IN LBS. INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS)												
DIADUDANA		BRIDGE LENGTH										
DIAPHRAGM	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300′-0	320'-0	340′-0		
ROLLED SHAPE	15,149	16,576	19,982	20,243	24,891	24,891	30,448	30,449	34,573	44,276		
BENT PLATE	13,770	15,002	16,704	16,965	20,651	22,632	24,206	24,207	27,346	39,259		

45 SKEW	DIAPHRAGM WEIGHTS									
( WE	WEIGHT IN LBS. INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS)									
DIADUDAGN	BRIDGE LENGTH									
DIAPHRAGM	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300′-0	320'-0	340′-0
ROLLED SHAPE	15,284	16,711	20,028	20,297	23,873	31,256	31,258	35,390	37,448	45,148
BENT PLATE	14,036	15,269	16,935	17,205	20,040	25,040	25,042	28,189	29,754	40,173



CONNECTION PLATE WELD TERMINATION DETAIL (PIER DIAPHRAGM, O° TO 30° SKEW)

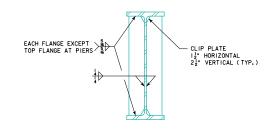


CONNECTION PLATE WELD TERMINATION DETAIL (PIER DIAPHRAGM, 45° SKEW)

NOTE: THE STRUCTURAL STEEL QUANTITY REQUIRED FOR THE APPROPRIATE BRIDGE LENGTH AND SKEW ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE BRIDGE PLAN.

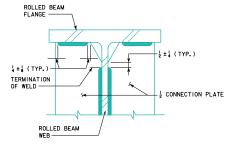
THE BENT PLATE OPTION SHOULD BE SHOWN ON THE SUMMARY

THE CONTRACTOR MAY CHOOSE TO PROVIDE ROLLED SHAPE DIAPHRAGMS AT NO ADDITIONAL COST.



## CONNECTION PLATE DETAIL

NOTE: EXTERIOR BEAMS REQUIRE A CONNECTION PLATE ON THE INTERIOR SIDE OF THE WEB ONLY.



CONNECTION PLATE WELD TERMINATION DETAIL (ABUTMENT & INTERMEDIATE DIAPHRAGM)



## CIOWADOT Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

OCTOBER, 2014

DIAPHRAGM DETAILS SHEET 2

RS40-082-14