SUMMARY OF CONCRETE QUANTITIES

LOCATION	STRUCTURAL CONCRETE	HPC STRUCTURAL CONCRETE
____ ABUT. FTG.		
____ ABUT. FTG.		
BRIDGE DECK + ABUT. & PIER DIAPHAGMS		
ABUTMENT WINGS		
INTERMEDIATE DIAPHRAGMS		
PIER #1		
PIER #2		
LIGHT POLE BASE		
APPROACH SIDEWALK		
TOTAL (CU. YDS.)		

SUMMARY OF REINFORCING STEEL

LOCATION	NON-COATED REINFORCING STEEL	STAINLESS STEEL REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
BRIDGE DECK + ABUT. FTG. **			
ABUTMENT WINGS			
INTERMEDIATE DIAPHRAGMS			
BARRIER RAIL - ____ RAIL			
BARRIER RAIL - ____ RAIL			
BARRIER RAIL END SECTION		4 AT _____	4 AT _____
PIER #1			
PIER #2			
LIGHT POLE BASE			
APPROACH SIDEWALK			
** INCLUDES ABUTMENT AND PIER DIAPHRAGMS			
TOTAL (LBS.)			

SUMMARY OF EXCAVATION

LOCATION	CLASS 20 EXCAVATION	CLASS ___ EXCAVATION
____ ABUTMENT		
____ ABUTMENT		
PIER #1		
PIER #2		
TOTAL (CU. YDS.)		

SUMMARY OF FOUNDATIONS

LOCATION	SUBSTRUCTURE TYPE	FOUNDATION TYPE	NUMBER	LENGTH (LIN. FT.)	TOTAL (LIN. FT.)
____ ABUTMENT					
____ ABUTMENT					
PIER #1					
PIER #2					

FOUNDATION TYPES

HP10x42
HP10x57
HP12x53
HP14x73
HP14x89
TIMBER FOUNDATION PILING
TIMBER TRESTLE - PILE BENTS
___ INCH DRILLED SHAFT
12" PRESTRESSED CONCRETE
14" PRESTRESSED CONCRETE
16" PRESTRESSED CONCRETE
SPREAD FOOTING

SUBSTRUCTURE TYPE

INTEGRAL ABUTMENT
STUB ABUTMENT
SEMI-INTEGRAL ABUTMENT
FRAME PIER
VEE PIER
TEE PIER
DIAPHRAGM PIER
PILE BENT PIER
OTHER

BEARING TYPES

PLAIN NEOPRENE 1"
PLAIN NEOPRENE TAPERED
LAMINATED NEOPRENE
LAMINATED NEOPRENE/CURVED SOLE PLATE - ASSEMBLY
MASONRY PLATE/CURVED SOLE PLATE - ASSEMBLY
MASONRY PLATE/BRONZE BEARING - ASSEMBLY
ROCKER/MASONRY PLATE - ASSEMBLY
FIXED SHOE - ASSEMBLY
POT BEARING ASSEMBLY
DISC BEARING ASSEMBLY
S3 x 7.5
3 x 3 BAR

ASSOCIATED BID ITEM

INCIDENTAL ITEM
INCIDENTAL ITEM
INCIDENTAL ITEM
* STRUCTURAL STEEL
Δ STRUCTURAL STEEL
Δ STRUCTURAL STEEL
ΔΔ STRUCTURAL STEEL
ΔΔ STRUCTURAL STEEL
EACH
EACH
INCIDENTAL ITEM
INCIDENTAL ITEM

SUMMARY OF STRUCTURAL STEEL

	LOCATION		TOTAL (LBS.)
	BRIDGE DECK DRAINS		
(4)	DIAPHRAGMS		
	PIER #1 BEARINGS		
	PIER #2 BEARINGS		
	WELDED GIRDERS	INTERIOR GIRDERS (1) _____ AT _____	
		EXTERIOR GIRDERS (1) 2 AT _____	
	DIAPHRAGMS (2)		
		TOTAL (LBS.)	

(1) GIRDER WEIGHT INCLUDES STUDS, BEARING STIFFENERS, INTERMEDIATE STIFFENERS, CONNECTION PLATES, SPLICE PLATES, BOLTS, WELDS AND FLANGE DEFLECTORS.

(2) DIAPHRAGMS INCLUDE ALL INTERMEDIATE, ABUTMENT AND PIER DIAPHRAGM MATERIAL, INCLUDING BOLTS AND WELDS. ALSO INCLUDES ANY LATERAL BRACING MATERIAL.

(4) DESIGNER NOTE - THIS ITEM IS USED WHEN PPCB BRIDGES USE STEEL INTERMEDIATE DIAPHRAGMS.

SUMMARY OF BEARINGS

LOCATION	BEARING TYPE	NUMBER	ASSOCIATED BID ITEM
____ ABUTMENT			
____ ABUTMENT			
PIER #1			
PIER #2			

PPCB BRIDGES

* CURVED SOLE PLATES AND LAMINATED NEOPRENE PADS ARE INCIDENTAL TO PPC BEAMS

Δ CURVED SOLE PLATES ARE INCIDENTAL TO PPC BEAMS

STEEL BRIDGES

* LAMINATED PADS ARE INCIDENTAL TO STRUCTURAL STEEL

ΔΔ INCLUDES SOLE PL AND ANCHOR BOLTS

INTEGRAL ABUTMENT WELDED GIRDER OR PPCB BRIDGES

SUMMARY QUANTITIES SHEET

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER

SUMMARY OF CONCRETE QUANTITIES

LOCATION	STRUCTURAL CONCRETE	HPC STRUCTURAL CONCRETE
____ ABUT. FTG. + BKWL. + WING EXT. + MASKWALL		
____ ABUT. FTG. + BKWL. + WING EXT. + MASKWALL		
BRIDGE DECK **		
ABUTMENT WINGS		
WING COUNTERFORTS		
INTERMEDIATE DIAPHRAGMS		
PIER #1		
PIER #2		
LIGHT POLE BASE		
APPROACH SIDEWALK		
** INCLUDES ABUTMENT & PIER DIAPHRAGMS FOR PCC	————	————
TOTAL (CU. YDS.)		

SUMMARY OF REINFORCING STEEL

LOCATION	NON-COATED REINFORCING STEEL	STAINLESS STEEL REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
____ ABUT. FTG. + BKWL. + WING EXT. + MASKWALL			
____ ABUT. FTG. + BKWL. + WING EXT. + MASKWALL			
BRIDGE DECK **			
ABUTMENT WINGS			
WING COUNTERFORTS			
INTERMEDIATE DIAPHRAGMS			
BARRIER RAIL - ____ RAIL			
BARRIER RAIL - ____ RAIL			
BARRIER RAIL END SECTION		4 AT _____	4 AT _____
PIER #1			
PIER #2			
LIGHT POLE BASE			
APPROACH SIDEWALK			
** INCLUDES ABUTMENT & PIER DIAPHRAGMS FOR PCC	————	————	————
TOTAL (LBS.)			

SUMMARY OF EXCAVATION

LOCATION	CLASS 20 EXCAVATION	CLASS ___ EXCAVATION
____ ABUTMENT		————
____ ABUTMENT		————
PIER #1		————
PIER #2		————
TOTAL (CU. YDS.)		————

SUMMARY OF FOUNDATIONS

LOCATION	SUBSTRUCTURE TYPE	FOUNDATION TYPE	NUMBER	LENGTH (LIN. FT.)	TOTAL (LIN. FT.)
____ ABUTMENT					
____ ABUTMENT					
PIER #1					
PIER #2					

FOUNDATION TYPES

HP10x42
HP10x57
HP12x53
HP14x73
HP14x89
TIMBER FOUNDATION PILING
TIMBER TRESTLE - PILE BENTS
___ INCH DRILLED SHAFT
12" PRESTRESSED CONCRETE
14" PRESTRESSED CONCRETE
16" PRESTRESSED CONCRETE
SPREAD FOOTING ———— ———— ————

SUBSTRUCTURE TYPE

INTEGRAL ABUTMENT
STUB ABUTMENT
SEMI-INTEGRAL ABUTMENT
FRAME PIER
VEE PIER
TEE PIER
DIAPHRAGM PIER
PILE BENT PIER
OTHER

BEARING TYPES

PLAIN NEOPRENE 1"
PLAIN NEOPRENE TAPERED
LAMINATED NEOPRENE
LAMINATED NEOPRENE/CURVED SOLE PLATE - ASSEMBLY
MASONRY PLATE/CURVED SOLE PLATE - ASSEMBLY
MASONRY PLATE/BRONZE BEARING - ASSEMBLY
ROCKER/MASONRY PLATE - ASSEMBLY
FIXED SHOE - ASSEMBLY
POT BEARING ASSEMBLY
DISC BEARING ASSEMBLY
S3 x 7.5
3 x 3 BAR

ASSOCIATED BID ITEM

INCIDENTAL ITEM
INCIDENTAL ITEM
INCIDENTAL ITEM
* STRUCTURAL STEEL
Δ STRUCTURAL STEEL
Δ STRUCTURAL STEEL
ΔΔ STRUCTURAL STEEL
ΔΔ STRUCTURAL STEEL
EACH
EACH
INCIDENTAL ITEM
INCIDENTAL ITEM

SUMMARY OF STRUCTURAL STEEL

	LOCATION		TOTAL (LBS.)
	BRIDGE DECK DRAINS		
(4)	DIAPHRAGMS		
	____ ABUTMENT BEARINGS		
	____ ABUTMENT BEARINGS		
	PIER #1 BEARINGS		
	PIER #2 BEARINGS		
	WELDED GIRDERS	INTERIOR GIRDERS (1) _____ AT _____	
		EXTERIOR GIRDERS (1) 2 AT _____	
	DIAPHRAGMS (2)		
		TOTAL (LBS.)	

(1) GIRDER WEIGHT INCLUDES STUDS, BEARING STIFFENERS, INTERMEDIATE STIFFENERS, CONNECTION PLATES, SPLICE PLATES, BOLTS, WELDS AND FLANGE DEFLECTORS.

(2) DIAPHRAGMS INCLUDE ALL INTERMEDIATE, ABUTMENT AND PIER DIAPHRAGM MATERIAL, INCLUDING BOLTS AND WELDS. ALSO INCLUDES ANY LATERAL BRACING MATERIAL.

(4) DESIGNER NOTE - THIS ITEM IS USED WHEN PPCB BRIDGES USE STEEL INTERMEDIATE DIAPHRAGMS.

SUMMARY OF BEARINGS

LOCATION	BEARING TYPE	NUMBER	ASSOCIATED BID ITEM
____ ABUTMENT			
____ ABUTMENT			
PIER #1			
PIER #2			

PPCB BRIDGES

* CURVED SOLE PLATES AND LAMINATED NEOPRENE PADS ARE INCIDENTAL TO PPC BEAMS

Δ CURVED SOLE PLATES ARE INCIDENTAL TO PPC BEAMS

STEEL BRIDGES

* LAMINATED PADS ARE INCIDENTAL TO STRUCTURAL STEEL

ΔΔ INCLUDES SOLE PL AND ANCHOR BOLTS

STUB ABUTMENT WELDED GIRDER OR PPCB BRIDGES

SUMMARY QUANTITIES SHEET

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

DESIGN TEAM | COUNTY | PROJECT NUMBER | SHEET NUMBER

SUMMARY OF CONCRETE QUANTITIES

LOCATION		STRUCTURAL CONCRETE	HPC STRUCTURAL CONCRETE
ABUTMENT FOOTINGS			
ABUTMENT WINGS			
____ ABUTMENT CONCRETE ***			
____ ABUTMENT CONCRETE ***			
SLAB + HAUNCH + ABUT. DIAP. + WINGWALLS SECTION 1 &3			
SLAB + HAUNCH SECTION 2			
SLAB + HAUNCH + PIER DIAP. SECTION 4 & 5			
INTERMEDIATE DIAPHRAGMS (IF CONCRETE DIAPHRAGMS)			
PIER #1	CAP		
	STEP CONCRETE ***		
	COLUMN		
	FOOTING		
PIER #2	CAP		
	STEP CONCRETE ***		
	COLUMN		
	FOOTING		
TOTAL (CU. YDS.)			

*** SEE APPROPRIATE ADDITIONAL QUANTITIES STANDARD SHEETS FOR SKEWED BRIDGES.

SUMMARY OF REINFORCING STEEL

LOCATION		NON-COATED REINFORCING STEEL	STAINLESS STEEL REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
SUPERSTRUCTURE AND 2 ABUTMENTS **				
INTERMEDIATE DIAPHRAGMS (CONCRETE DIAPHRAGMS)				
BARRIER RAIL - TWO RAILS				
BARRIER RAIL END SECTIONS		————	4 AT _____	4 AT _____
PIER #1	CAP			
	STEP REINFORCING ***			
	COLUMN			
	FOOTING			
PIER #2	CAP			
	STEP REINFORCING ***			
	COLUMN			
	FOOTING			
** EXCLUDES RAIL REINFORCING. INCLUDES ____ LBS. FOR PILE SPIRALS AND SPACERS WITH OPTIONAL EPOXY COATING				
TOTAL (LBS.)				

SUMMARY OF EXCAVATION

LOCATION	CLASS 20 EXCAVATION	CLASS ___ EXCAVATION
____ ABUTMENT		————
____ ABUTMENT		————
PIER #1		————
PIER #2		————
TOTAL (CU. YDS.)		

SUMMARY OF FOUNDATIONS

LOCATION	SUBSTRUCTURE TYPE	FOUNDATION TYPE	NUMBER	LENGTH (LIN. FT.)	TOTAL (LIN. FT.)
____ ABUTMENT	INTEGRAL ABUTMENT				
____ ABUTMENT	INTEGRAL ABUTMENT				
PIER #1					
PIER #2					

FOUNDATION TYPES

HP10x42
HP10x57
HP12x53
HP14x73
HP14x89
TIMBER FOUNDATION PILING
TIMBER TRESTLE - PILE BENTS
SPREAD FOOTING

SUBSTRUCTURE TYPE

TEE PIER
PILE BENT PIER
OTHER

BEARING TYPES

PLAIN NEOPRENE 1"
PLAIN NEOPRENE TAPERED
LAMINATED NEOPRENE/CURVED SOLE PLATE - ASSEMBLY

ASSOCIATED BID ITEM

INCIDENTAL ITEM
INCIDENTAL ITEM
* STRUCTURAL STEEL

* CURVED SOLE PLATES AND LAMINATED NEOPRENE PADS ARE INCIDENTAL TO PPC BEAMS

SUMMARY OF STRUCTURAL STEEL

LOCATION	TOTAL (LBS.)
BRIDGE DECK DRAINS	
INTERMEDIATE DIAPHRAGMS	
PIER #1 BEARINGS	
PIER #2 BEARINGS	
TOTAL (LBS.)	

SUMMARY OF BEARINGS

LOCATION	BEARING TYPE	SLOPE %	NUMBER	ASSOCIATED BID ITEM
_____ ABUTMENT	S3 x 7.5			INCIDENTAL ITEM
_____ ABUTMENT	S3 x 7.5			INCIDENTAL ITEM
PIER #1				
PIER #2				

H40-14 & H44-14 BRIDGE STANDARDS

SUMMARY QUANTITIES SHEET

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER

SUMMARY OF CONCRETE QUANTITIES

LOCATION		STRUCTURAL CONCRETE	HPC STRUCTURAL CONCRETE
TWO ABUTMENT FOOTINGS			
_____ ABUTMENT STEP CONCRETE			
_____ ABUTMENT STEP CONCRETE			
SLAB + ABUTMENT DIAPHAGMS - SECTIONS 1 & 3			
SLAB - SECTION 2			
SLAB - SECTIONS 4 & 5			
ABUTMENT WINGS			
PIER #1	CAP		
	STEP CONCRETE ***		
	COLUMN		
	FOOTING		
PIER #2	CAP		
	STEP CONCRETE ***		
	COLUMN		
	FOOTING		
		———	———
	TOTAL (CU. YDS.)		

*** SEE APPROPRIATE ADDITIONAL QUANTITIES STANDARD SHEETS FOR SKEWED BRIDGES.

SUMMARY OF REINFORCING STEEL

LOCATION		NON-COATED REINFORCING STEEL	STAINLESS STEEL REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
SUPERSTRUCTURE & TWO ABUTMENTS **				
BARRIER RAIL		———	2 AT _____	2 AT _____
BARRIER RAIL END SECTIONS		———	4 AT _____	4 AT _____
PIER #1	CAP			
	STEP REINFORCING ***			
	COLUMN			
	FOOTING			
PIER #2	CAP			
	STEP REINFORCING ***			
	COLUMN			
	FOOTING			
** EXCLUDES RAIL REINFORCING. INCLUDES ____ LBS. FOR PILE SPIRALS AND SPACERS WITH OPTIONAL EPOXY COATING				
		———	———	———
	TOTAL (LBS.)			

SUMMARY OF EXCAVATION

LOCATION	CLASS 20 EXCAVATION	CLASS ___ EXCAVATION
____ ABUTMENT		———
____ ABUTMENT		———
PIER #1		———
PIER #2		———