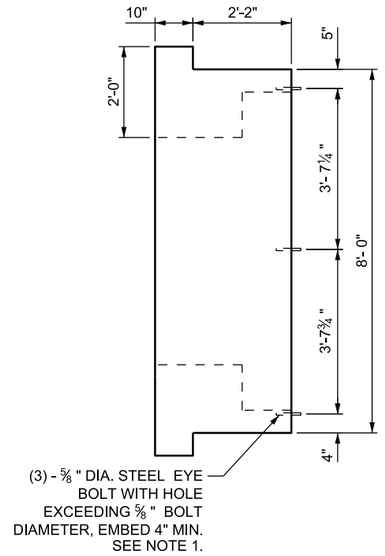
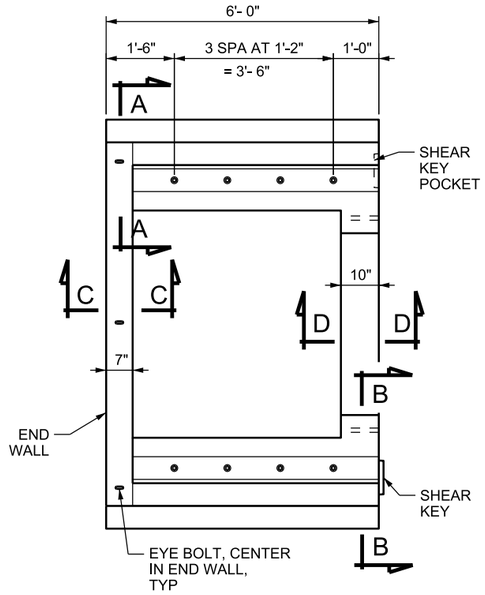
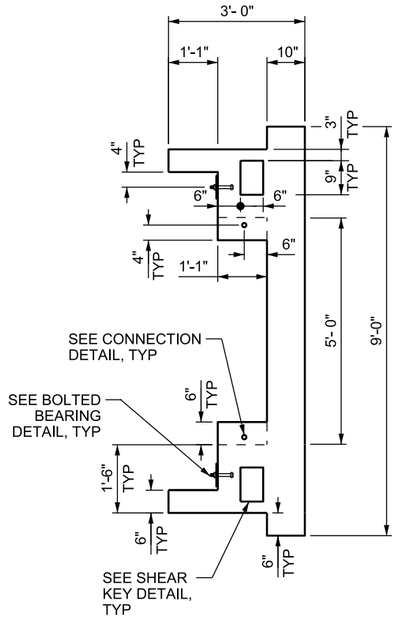
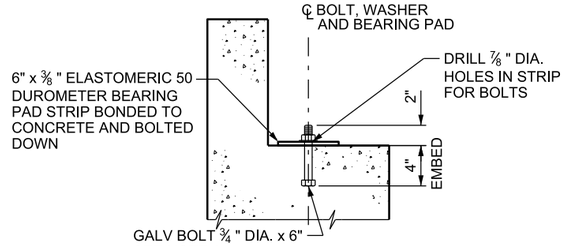


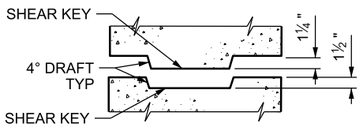


6'-0" END UNIT

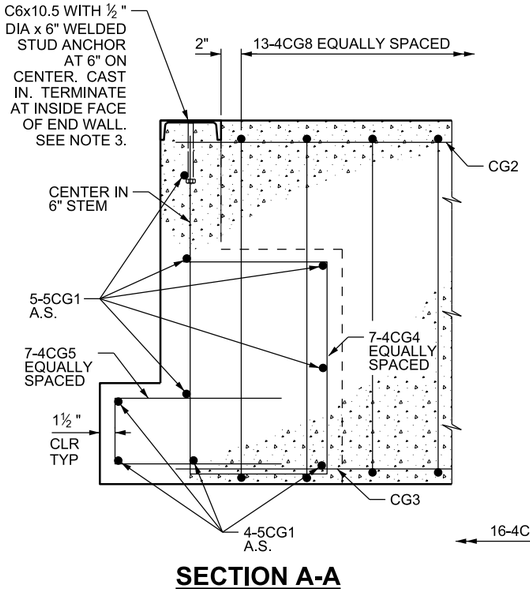




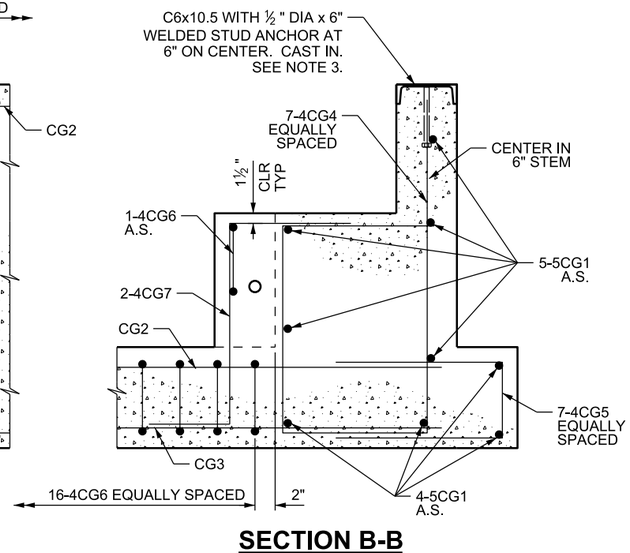
BOLTED BEARING DETAIL



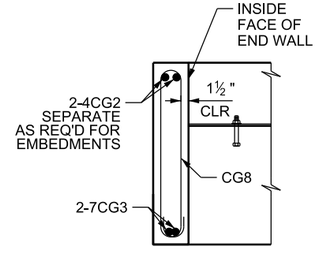
SHEAR KEY DETAIL



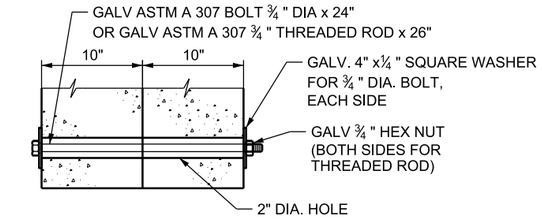
SECTION A-A



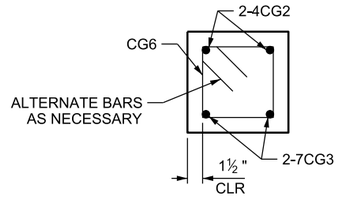
SECTION B-B



SECTION C-C



CONNECTION DETAIL



SECTION D-D

REINFORCING STEEL SCHEDULE FOR END UNIT

MARK	LOCATION	SIZE	REQ'D	LENGTH	TOTAL	SKETCH
CG1	CATTLE GUARD	5	18	7'-8"	138'-0"	
CG2	CATTLE GUARD	4	4	7'-8"	30'-8"	
CG3	CATTLE GUARD	7	4	7'-8"	30'-8"	
CG4	CATTLE GUARD	4	14	6'-11"	96'-10"	
CG5	CATTLE GUARD	4	14	3'-5"	47'-10"	
CG6	CATTLE GUARD	4	16	3'-1"	49'-4"	135° STD. HOOK
CG7	CATTLE GUARD	4	4	3'-6"	14'-0"	90° STD. HOOK
CG8	CATTLE GUARD	4	13	6'-10"	88'-10"	180° STD. HOOK

STRUCTURAL STEEL PER UNIT

ITEM	REQ'D	SIZE	LENGTH
CHANNEL	2	C6x10.5	5'- 5"
STUD ANCHOR	22	½ " DIA	0'- 6"

NOTES:

1. FERRULE LOOP INSERTS SIZED FOR A BOLT OF EQUIVALENT DIAMETER TO THAT SHOWN MAY BE USED INSTEAD OF EMBEDDED BOLTS. FABRICATOR TO INCLUDE ASSOCIATED BOLT, OR EYE BOLT, OF LENGTH APPROPRIATE FOR FERRULE.
2. PROVIDE EMBEDDED LIFTING DEVICES CAPABLE OF SUPPORTING 20,000 LB MINIMUM TO LIFT THE PRECAST CATTLE GUARD UNIT INTO ITS FINAL POSITION.
3. WEEPHOLES ARE PERMITTED IN THE CHANNEL SECTION TO RELEASE ENTRAPPED AIR.

SUPPLEMENTAL DRAWING

REVISIONS

NO.	DATE	APPR.	REMARKS
1	10/25/18	JWC	NEW DRAWING. COMPLETE REVISION TO CATTLE GUARD

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — DEPUTY DIRECTOR — OCT.25, 2018 DATE
CHAIRMAN STANDARDS COMMITTEE APPROVED — OCT.25, 2018 DATE

6'-0" PRECAST CONCRETE CATTLE GUARD END UNIT

STANDARD DRAWING TITLE

STD. DWG. NO.
SW 1D

DGN File: D:\StandardsandSpecsSection\2017Section\All Supp Issues\Issue # 7 10-25-2018\Drawings\SW01D.dgn
05-NOV-2018