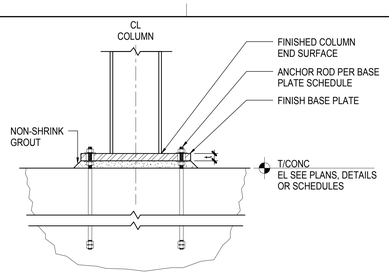
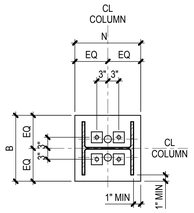
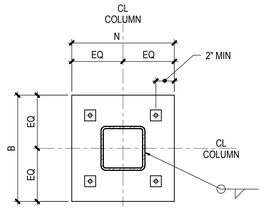


ELEVATION

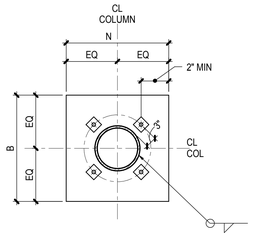


W12 PLAN
WITH SQUARE ANCHOR ROD PATTERN
INSIDE COLUMN

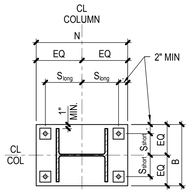


NOTE:
IT IS RECOMMENDED THAT A SQUARE BOLT CONFIGURATION BE MAINTAINED FOR A SQUARE AND RECTANGULAR HSS.

SQUARE HSS PLAN



ROUND HSS PLAN



NOTE:
S long IS PARALLEL TO LONG SIDE OF PLATE

RECTANGULAR BASE PLATE AT WIDE FLANGE COLUMN
WITH RECTANGULAR ANCHOR ROD PATTERN OUTSIDE COLUMN - SEE TABLE

NOTES:

1. SEE BASE PLATE SCHEDULE FOR SIZE, ORIENTATION, AND THICKNESS
2. BASE PLATE THICKNESS SHOWN ON SCHEDULE IS A MIN. DIMENSION AFTER ALL MILLING IS COMPLETED
3. COLUMN STABILITY DURING ERECTION IS RESPONSIBILITY OF CONTRACTOR
4. SEE ANCHOR ROD SCHEDULE AND TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION
5. CONTRACTOR'S OPTION TO FIELD WELD COLUMNS TO BASE PLATES FOR HEAVY BASE PLATES

TABLE

Slong AND **S**short FOR RECTANGULAR ANCHOR ROD PATTERN

ANCHOR ROD DIA.	W10		W12	
	S_{long}	S_{short}	S_{long}	S_{short}
3/4"	8"	2 1/2"	8 1/2"	3"
1"	8 1/2"	2 1/2"	9 1/2"	3"

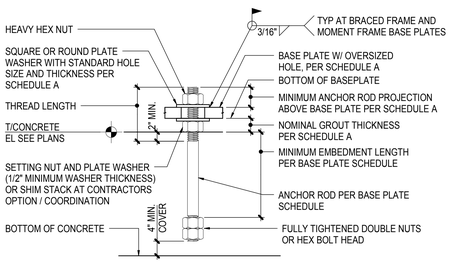
1 TYPICAL BASE PLATE DETAIL
NOT TO SCALE

BASE PLATE SCHEDULE

MARK	PLATE SIZE			ANCHOR RODS			DETAILS	REMARKS
	B(IN)	N(IN)	T(IN)	DIAM (IN)	#OF RODS	EMBEDMENT (IN)		
BP1	15	17	3/4"	3/4"	4	18"	1/S5.1.1	
BP2	12	14	3/4"	3/4"	4	18"	1/S5.1.1	
BP3	15	15	3/4"	3/4"	4	12"	1/S5.1.1	
BP4	16	16	3/4"	3/4"	4	12"	1/S5.1.1	
BP5	18	18	3/4"	3/4"	4	12"	1/S5.1.1	
BP6	16	16	3/4"	3/4"	4	18"	1/S5.1.1	
BP7	15	17	1"	3/4"	4	12"	1/S5.1.1	
BP8	-	1 1/2"	1"	7/8"	7	18"	4/S5.1.1	
BP9	7	14	1"	3/4"	4	12"	8/S5.1.1	
BP10	10 1/2	10 1/2	3/4"	3/4"	4	12"	1/S5.1.1	
BP11	-	-	1"	3/4"	8		6/S5.1.1	
BP12	-	-	1"	3/4"	4		7/S5.1.1	
BP13	13	13	3/4"	-				
BP14	7	14	5/8"	-	-	-	2A/S5.4.4 ON STEEL BEAM	

NOTE:
SEE DETAIL 8/S5.0.2 FOR ADDITIONAL REQUIREMENTS @ BRACE LOCATIONS

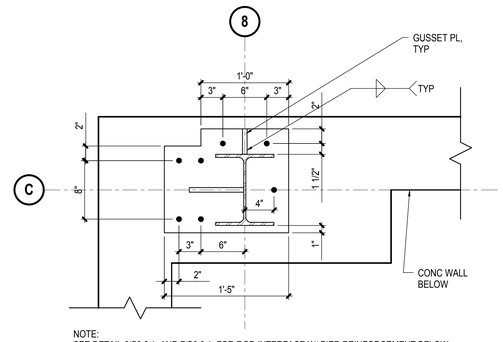
2 BASE PLATE SCHEDULE
3/4" = 1'-0"



SCHEDULE A

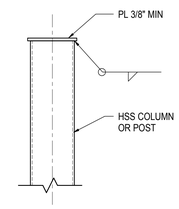
ANCHOR ROD DIAMETER	BASE PL HOLE DIA	MIN WASHER SIZE	MIN WASHER t	MIN PROJ ABOVE BASE PL	NOMINAL GROUT THICKNESS
3/4"	1-5/16"	2"	1/4" TYP 5/16" AT BRACED FRAMES AND MOMENT FRAMES	3"	1"
7/8"	1-9/16"	2-1/2"	5/16"	3-1/2"	1"

3 TYPICAL ANCHOR ROD DETAIL
NOT TO SCALE

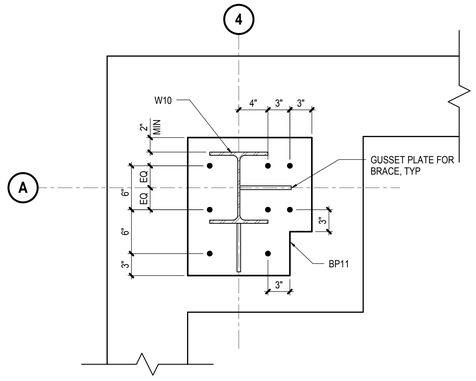


NOTE:
SEE DETAIL 6/S3.2.1 AND 7/S3.2.1 FOR ROD INTERFACE W/ PIER REINFORCEMENT BELOW

4 BP8 BASE PLATE AT BRACE INTERSECTION
1 1/2" = 1'-0"

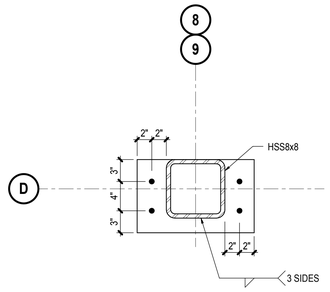


5 TYPICAL CAP PLATE FOR HSS COLUMNS
1 1/2" = 1'-0"



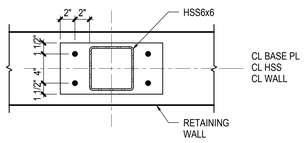
NOTE:
SEE DETAIL 1, ELEVATION, FOR ADDITIONAL INFORMATION

6 BP11
1 1/2" = 1'-0"



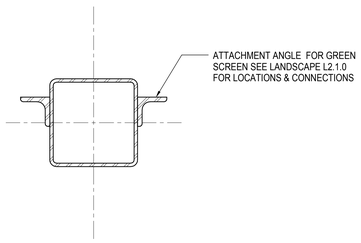
NOTE:
SEE DETAIL 1, ELEVATION, FOR ADDITIONAL INFORMATION

7 BP12 @ GRID LINES D8 AND D9
1 1/2" = 1'-0"



NOTE:
SEE DETAIL 1, ELEVATION, FOR ADDITIONAL INFORMATION

8 BP9 LOADING DOCK SCREEN WALL POST BASE PLATE
1 1/2" = 1'-0"



9 COLUMN C11 AT LOADING DOCK - PLAN SECTION
3" = 1'-0"

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SEALS AND SIGNATURES

PROJECT NORTH

REV. NO.	DESCRIPTION	BY	APVD	DATE
	ISSUED FOR CONSTRUCTION			07/03/12

Argonne NATIONAL LABORATORY

FMS
Facilities Management Services

PROJECT TITLE: ADVANCED PROTEIN CRYSTALLIZATION FACILITY, ARGONNE NATIONAL LABORATORY
PROJECT NO: C10539.00
DRAWING TITLE: TYPICAL STEEL COLUMN DETAILS

DESIGNED: Designer	A/E CADD FILE: S5.1.1	FACILITY NO(S)
DRAWN: Author	A/E DWG. NO.: S5.1.1	
CHECKED: Checker	CAD NO:	
PROJECT MANAGER: ANL - JESSE ADAMS	DWG STATE	
DATE - 06/31/11	BIND ORDER	
FACILITY DOCUMENT NUMBER: J446-101-W-	S5.1.1	REV. NO.

Plot Date: 6/27/2012 5:18:46 PM