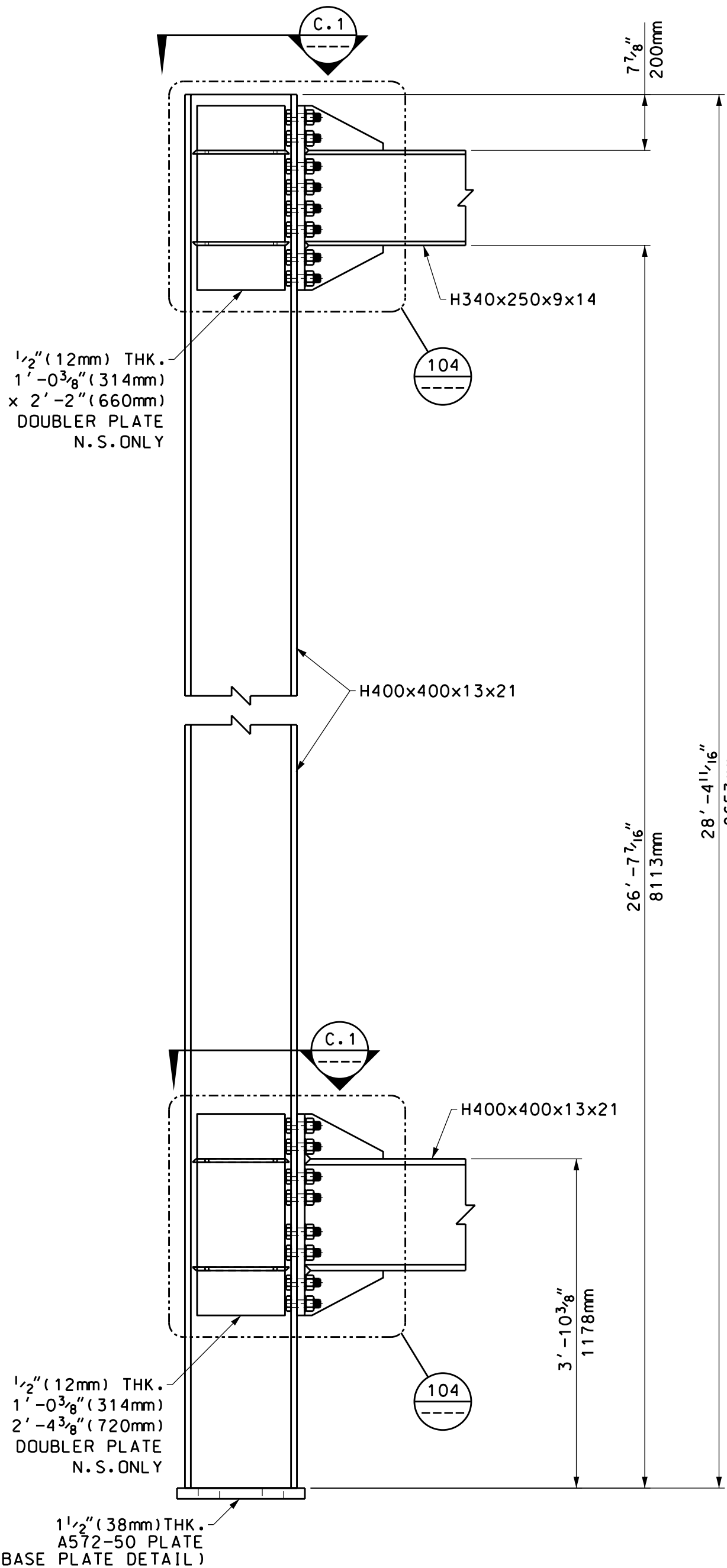


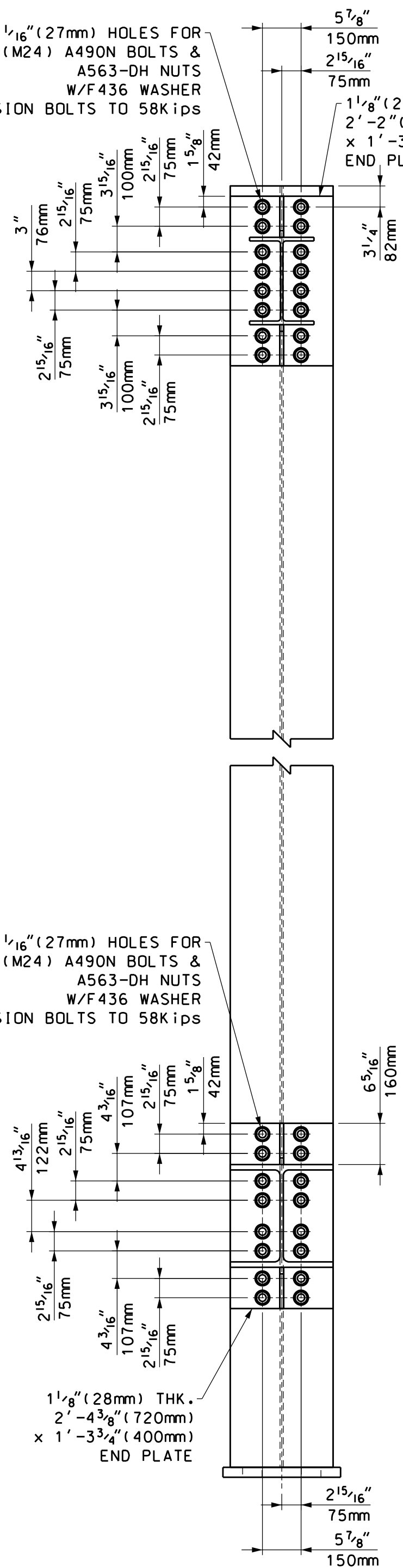
SECTION C.1  
SCALE : 1 1/2" = 1'-0"  
TYP. STIFFENER DETAILS



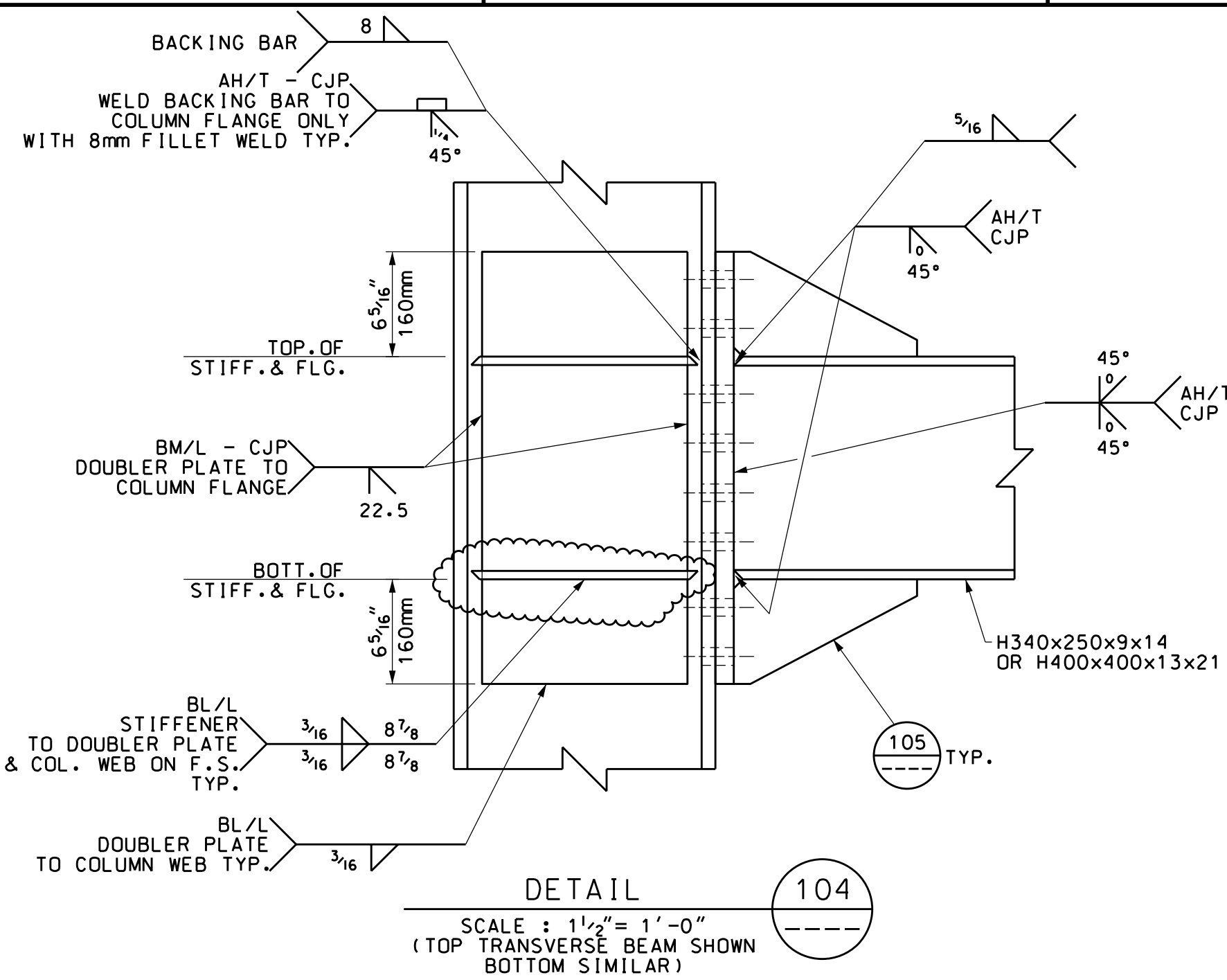
SECTION C  
TYPICAL VIEW FOR COLUMN LINE "A" & "B"  
LEFT SIDE SHOWN  
RIGHT SIDE OPPOSITE HAND  
0002

(16)-1 1/16" (27mm) HOLES FOR 1"(M24) A490N BOLTS & A563-DH NUTS W/F436 WASHER PRETENSION BOLTS TO 58Kips  
5 7/8" (150mm)  
2 15/16" (75mm)  
1 1/8" (28mm) THK. 2'-2" (660mm) x 1'-3 3/4" (400mm) END PLATE  
3 1/2" (82mm)

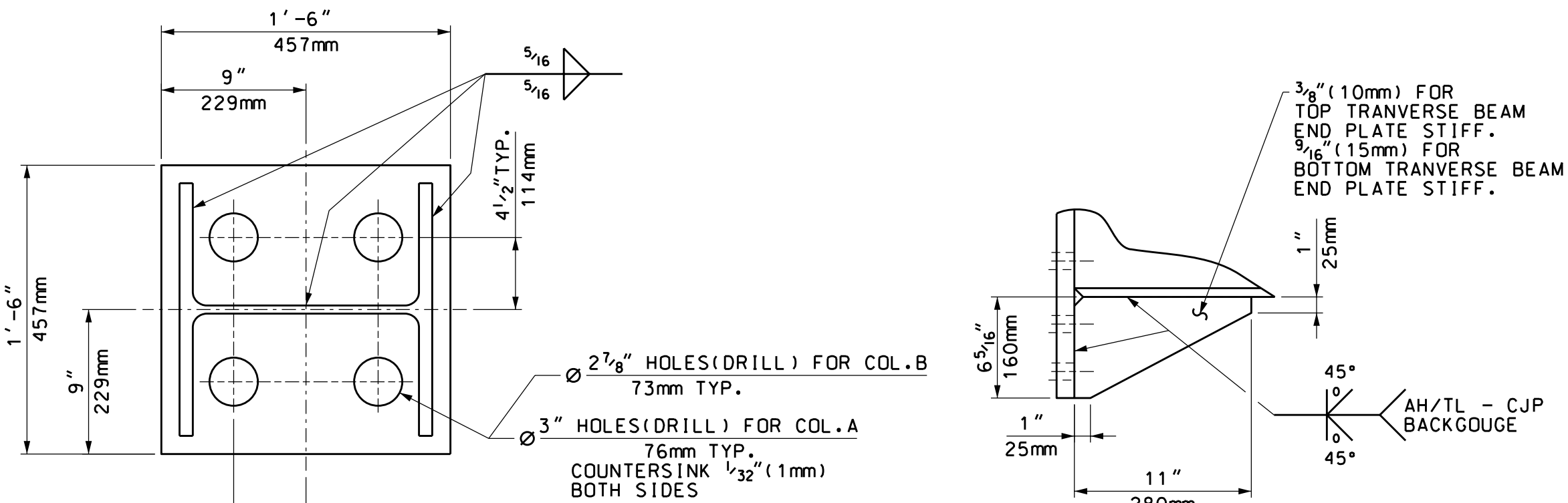
(16)-1 1/16" (27mm) HOLES FOR 1"(M24) A490N BOLTS & A563-DH NUTS W/F436 WASHER PRETENSION BOLTS TO 58Kips  
4 13/16" (122mm)  
2 15/16" (75mm)  
107mm  
4 3/16" (107mm)  
2 15/16" (75mm)  
1 1/8" (28mm) THK. 2'-4 3/8" (720mm) x 1'-3 3/4" (400mm) END PLATE  
2 15/16" (75mm)  
5 7/8" (150mm)



BASE PLATE DETAIL  
SCALE : 1 1/2" = 1'-0"



DETAIL 104  
SCALE : 1 1/2" = 1'-0"  
(TOP TRANSVERSE BEAM SHOWN  
BOTTOM SIMILAR)



DETAIL 105  
SCALE : 1 1/2" = 1'-0"

#### NOTES:

- SEE DRAWING V17494-DWND-0001 FOR GENERAL NOTES AND MATERIALS.
- ALL STEELWORK SHALL COMPLY WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL.
- PRE QUALIFIED WELD PROCEDURES FOR COMPLETE PENETRATION JOINTS MUST BE SUBMITTED TO VOGT POWER FOR APPROVAL PRIOR TO WELDING.
- THE QA/QC CATEGORY IS LISTED FOR EVERY DEMAND CRITICAL WELD. IT HAS THREE LETTERS WITH A FORWARD SLASH (/) SEPARATING THE SECOND AND THIRD LETTERS. THE FIRST LETTER (A, B OR C) IS THE SEISMIC WELD DEMAND CATEGORY. THE SECOND LETTER (H, M OR L) IS THE SEISMIC WELD CONSEQUENCE CATEGORY. THE THIRD LETTER (T OR L) INDICATES WHETHER THE WELD IS LOADED TRANSVERSELY (T) OR LONGITUDINALLY (L). THIS CODE IS USED WITH THE WELD NOT REQUIREMENTS CHART TO SPECIFY THE EXTENT OF NON-DESTRUCTIVE TESTING REQUIRED FOR THE WELD.
- UT IS REQUIRED ONLY WHEN THE WELD THROAT IS 5/16" (8mm) OR GREATER.
- REDUCE THE RATE OF UT, WHERE NOTED, IF AFTER 40 WELDS, AN INDIVIDUAL WELDER'S REJECT RATE IS LESS THAN 5%.
- PARTIAL LENGTH TESTING IS APPLICABLE FOR LONGITUDINALLY LOADED WELDS WHEN OVER 24" (600mm) IN LENGTH. INSPECT 6" (150mm) AT THE BEGINNING AND END OF EACH WELD, PLUS WHERE A START AND RESTART IS VISUALLY NOTED FOR A DISTANCE OF 6" (150mm) ON EITHER SIDE OF THE START/STOP LOCATION, AND A 6" (150mm) LENGTH FOR EVERY 10' (3M) FOR A GIVEN WELD.
- IN LIEU OF SEAL WELDING AND PRIOR TO PAINTING APPLY BUTYL RUBBER CAULK TO SEAL WELD THE JOINT AT THE HOLD BACKS ON THE ENDS OF THE WELDS.
- ALL PLATES TO BE JIS G3101-SS400 U.N.O.

#### REFERENCE DRAWINGS:

V17494-DWND-0001 - INLET DUCT ASSEMBLY  
V17494-DWND-0002 - INLET DUCT PLAN & BOTTOM VIEW  
V17494-DWND-0004 THRU 0010 - INLET DUCT SECTIONS AND DETAILS  
V17494-DWND-0011 & 12 - BLEED TURBULENCE BREAKER AND DETAILS  
V17494-DWND-0050 - INSTALLATION OF LINER PANELS IN DUCTWORK CRITICAL AREAS, 7 1/2" (191mm) STAGGERED PITCH STUD SPACING  
V17494-DWND-0051 - INSTALLATION OF LINER PANELS IN DUCTWORK & CASING WITH FIELD INSULATED JOINTS, 15" (381mm) STUD SPACING  
V17494-DWND-0052 - STANDARD INTERNALLY INSULATED CASING DETAILS

DEMAND CRITICAL WELD NOT REQUIREMENTS					
SEISMIC WELD DEMAND CATEGORY					
SEISMIC WELD CONSEQUENCE CATEGORY	A		B		C
	CJP MT 100% OF JOINTS, FULL LENGTH UT 100% OF JOINTS, FULL LENGTH PJP, FILLETS MT 100% OF JOINTS, FULL LENGTH		CJP MT 100% OF JOINTS, FULL LENGTH IF TRANSVERSELY LOADED, PARTIAL LENGTH IF LONGITUDINALLY LOADED. UT 100% OF JOINTS, FULL LENGTH IF TRANSVERSELY LOADED, PARTIAL LENGTH IF LONGITUDINALLY LOADED. (REDUCE UT TO 25% OF JOINTS, OF LENGTH AS ABOVE, WITH LOW REJECT RATE) PJP, FILLETS MT 25% OF JOINTS, FULL LENGTH IF TRANSVERSELY LOADED, PARTIAL LENGTH IF LONGITUDINALLY LOADED.		CJP UT 10% OF JOINTS, FULL LENGTH IF TRANSVERSELY LOADED, PARTIAL LENGTH IF LONGITUDINALLY LOADED. PJP, FILLETS MT 10% OF JOINTS, 6" (150mm) SPOT AT RANDOM
	CJP MT 100% OF JOINTS, FULL LENGTH (REDUCE UT TO 25% OF JOINTS, OF LENGTH ABOVE, WITH HIGH ACCEPTANCE RATE) PJP, FILLETS MT 100% OF JOINTS, FULL LENGTH		CJP MT 100% OF JOINTS, FULL LENGTH IF TRANSVERSELY LOADED, PARTIAL LENGTH IF LONGITUDINALLY LOADED. UT 100% OF JOINTS, FULL LENGTH IF TRANSVERSELY LOADED, PARTIAL LENGTH IF LONGITUDINALLY LOADED. (REDUCE UT TO 25% OF JOINTS, OF LENGTH AS ABOVE, WITH LOW REJECT RATE) PJP, FILLETS MT 25% OF JOINTS, FULL LENGTH IF TRANSVERSELY LOADED, PARTIAL LENGTH IF LONGITUDINALLY LOADED.		NO NOT REQUIRED
	CJP MT 25% OF JOINTS, FULL LENGTH UT 25% OF JOINTS, FULL LENGTH PJP, FILLETS MT 10% OF JOINTS, 6" (150mm) SPOT AT RANDOM		CJP UT 10% OF JOINTS, FULL LENGTH PJP, FILLETS MT 10% OF JOINTS, 6" (150mm) SPOT AT RANDOM		NO NOT REQUIRED

REFERENCE NOTES 4, 5, 6 & 7.

02	FLIPPED PLATE	17-FEB-16	DR	REEVES	--	FRY
01	REVISED WELD PER RFI-0021	02-DEC-15	DR	REEVES	--	FRY
00	FIRST ISSUE	17-NOV-15	PK	BP	--	FRY
Rev.	Description	Date	Drawn	Chkd.	Chkd.	Appr.
Revisions						
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MIDDLETOWN ENERGY CENTER and KINGS MOUNTAIN ENERGY CENTER for NTE ENERGY and GEMMA POWER SYSTEMS VOGT POWER PROJECTS V17494 & V17495						3rd ANGLE PROJECTION Scale: 3/4" = 1'-0"
Title HRSG INLET DUCT SECTIONS & DETAILS						
Vogt Power International 13551 Triton Park Blvd Suite 2000 Louisville, Ky. 40223 USA www.VogtPower.com						
Internal Drawing Status FOR RECORD		Size D	Drawing No. V17494-DWND-0003		Rev. 02	