SK-1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

STIFFENER PL 12mm TYP

2095

1144 W24x94 COLUMN W12x72 NORTH SOUTH CUR 3297 W12×72 EDGE 🖁 20mm TYP 2095 7185 7140 * W14x26 TYP W16x45 ΕX 3297 3796 3230 6286 NOTES: -CALLOUTS DESIGNATED "EX." USE AWS E71T-7 OR EQUIVALENT (NO CVN IMPACT REQUIREMENT) FOR FILLET WELDS ONLY "CUR." TO SATISFY AISC DEMAND CRITICAL AWS E71T-8 OR EQUIVALENT -CALLOUTS DESIGNATED FOR FILLET WELDS ONLY -ALL OTHER WELDS (STIFFENER PLATE FILLET WELDS, CJP WELDS, ETC.) TO SATISFY AISC DEMAND

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NEESR NCREE BRACED FRAME TEST

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1

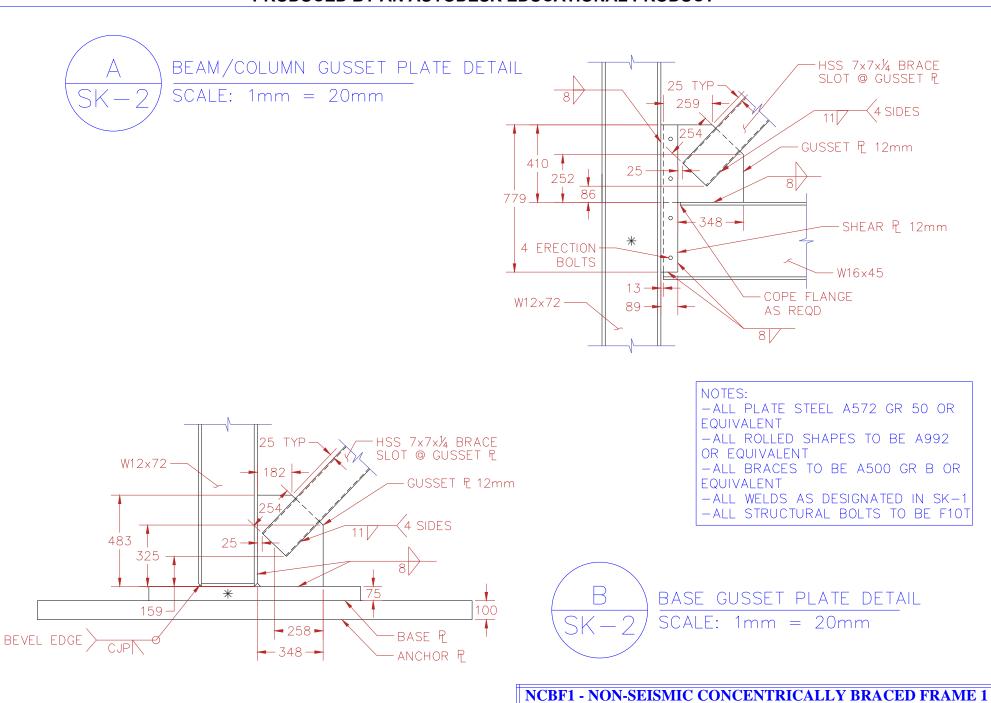
AWS E71T-8 OR EQUIVALENT

SCALE: 1mm = 50mm

-CONCRETE SLABS TO HAVE SPECIFIED COMPRESSIVE STRENGTH OF 6.0 KSI

DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013

CONTACT: ADSEN@UW.EDU



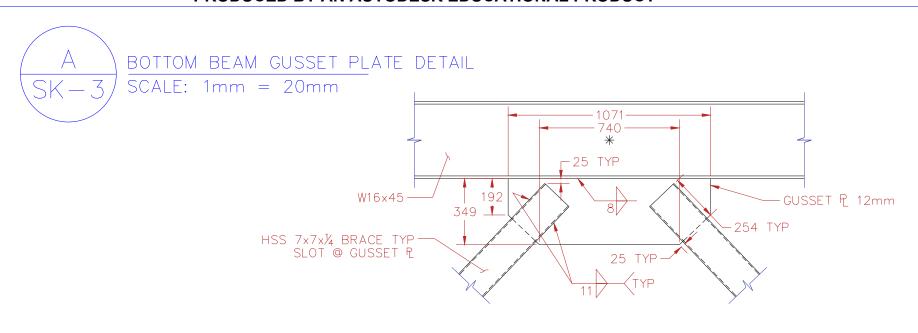
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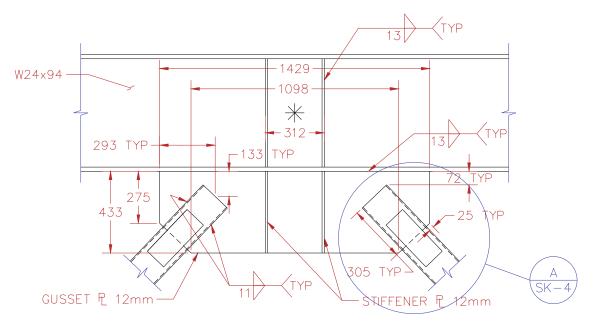
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NEESR NCREE BRACED FRAME TEST

DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013

CONTACT: ADSEN@UW.EDU





NOTES: -ALL PLATE STEEL A572 GR 50 OR EQUIVALENT

-ALL ROLLED SHAPES TO BE A992 OR EQUIVALENT

-ALL BRACES TO BE A500 GR B OR

EQUIVALENT

-ALL WELDS AS DESIGNATED IN SK-1

-ALL STRUCTURAL BOLTS TO BE F10T

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1 NEESR NCREE BRACED FRAME TEST DRAWN BY: ADS

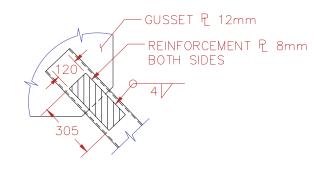
TOP BEAM GUSSET PLATE DETAIL SCALE: 1mm = 20mm

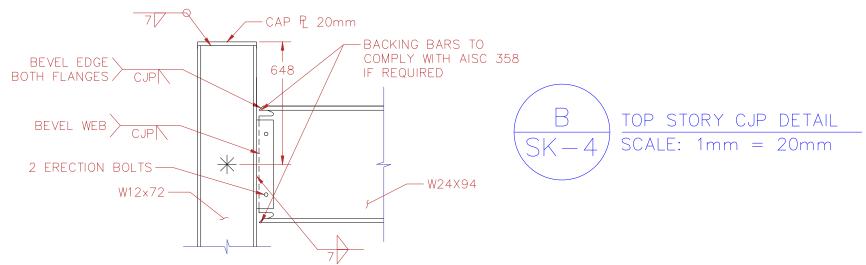
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SK-3 DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU

DESIGNED BY: ADS









NOTES: -ALL PLATE STEEL A572 GR 50 OR **EQUIVALENT** -ALL ROLLED SHAPES TO BE A992 OR EQUIVALENT -ALL BRACES TO BE A500 GR B OR **EQUIVALENT** -ALL WELDS AS DESIGNATED IN SK-1 -ALL STRUCTURAL BOLTS TO BE F10T

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1

NEESR NCREE BRACED FRAME TEST

DRAWN BY: ADS

DESIGNED BY: ADS DATE: 6/27/2013

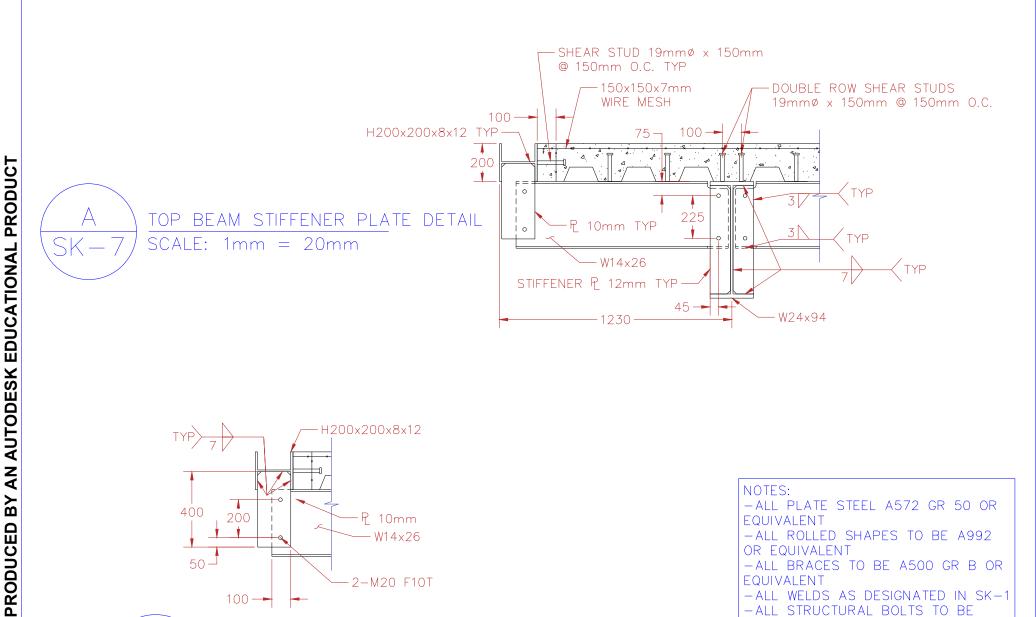
CONTACT: ADSEN@UW.EDU

SK-4

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT DOUBLE ROW-SINGLE ROW SHEAR STUDS SHEAR STUDS $W12\times72$ (NORTH) 19mmø x 115mm EACH RIB W12x72 (NORTH) 19mmø x 150mm @ 150mm O.C. 19mmø PUDDLE WELDS-1144 SINGLE ROW-@ 305mm O.C. SHEAR STUDS 19mmø x 150mm 2095 EACH RIB **AUTODESK EDUCATIONAL PRODUCT** 2410 951 19mmø THREADED ROD-SHEAR STUD-19mmø x 150 mm @ 150mm O.C. 2095 2095 EDGE P 20mm TYP 6286 6286 NOTES: -ALL PLATE STEEL A572 6598 GR 50 OR EQUIVALENT -ALL ROLLED SHAPES TO BE A992 OR EQUIVALENT 2410 953 -ALL BRACES TO BE A500 GR B OR EQUIVALENT SHEAR STUD -ALL WELDS AS 19mmø @ 305mm O.C. 2095 PRODUCED BY AN DESIGNATED IN SK-1 -ALL STRUCTURAL BOLTS 1142 TO BE F10T $-W12\times72$ (SOUTH) -W12x72 (SOUTH) TOP BEAM FULL SLAB PLAN BOTTOM BEAM FULL SLAB PLAN SCALE: 1mm = 50mmSCALE: 1mm = 50mmNCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1 NEESR NCREE BRACED FRAME TEST **SK-5** DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT DOUBLE ROW SHEAR STUDS SINGLE ROW SHEAR STUDS-NOTES: 19mmø x 150mm @ 150mm O.C. 19mmø x 150mm EACH RIB -ALL PLATE STEEL A572 GR 50 OR **EQUIVALENT d VERTICAL** -ALL ROLLED SHAPES TO BE A992 LAYER OR EQUIVALENT 0 0 OF WIRE -ALL BRACES TO BE A500 GR B OR MESH AT **FOUIVALENT** EDGE -ALL WELDS AS DESIGNATED IN SK-1 -ALL STRUCTURAL BOLTS TO BE (3) 0 0 (3) 0 F₁₀T 0 0 0 0 0 0 TOP BEAM SLAB PLAN SHEAR STUD 150x150x7mm 19mmø x 150mm @ 150mm O.C. WIRE MESH SCALE: 1mm = 20mmTOP SLAB ONLY: CONCRETE TO INCLUDE 150x150x7mm-0.5% GLASS FIBER REINFORCING (OR HIGH WIRE MESH STRENGTH CONCRETE ACCEPTABLE) SHEAR STUD 19mmø x 150mm DOUBLE ROW SHEAR STUDS @ 150mm O.C. TYP 19mmø x 150mm @ 150mm O.C. 75 mm STEEL DECK H200x200x8x12 TYE 200 **VERTICAL** LAYER 10mm TYP OF WIRE CUT FLANGE MESH AT ONE SIDE **EDGE** W14x26 2 ERECTION BOLTS TYP 2-M20 F10T STIFFENER P 12mm TYP TYP W24x94 2460 NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1 TOP BEAM SLAB SECTION NEESR NCREE BRACED FRAME TEST SCALE: 1mm = 20mm**SK-6** DRAWN BY: ADS **DESIGNED BY: ADS** DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



200x200x8x12

·P 10mm

W14x26

2-M20 F10T

TOP BEAM EDGE PLATE DETAIL

SCALE: 1mm = 20mm

200

100 —

400

50

NOTES:

EQUIVALENT

EQUIVALENT

F₁₀T

NEESR NCREE BRACED FRAME TEST

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OR EQUIVALENT

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1

-ALL PLATE STEEL A572 GR 50 OR

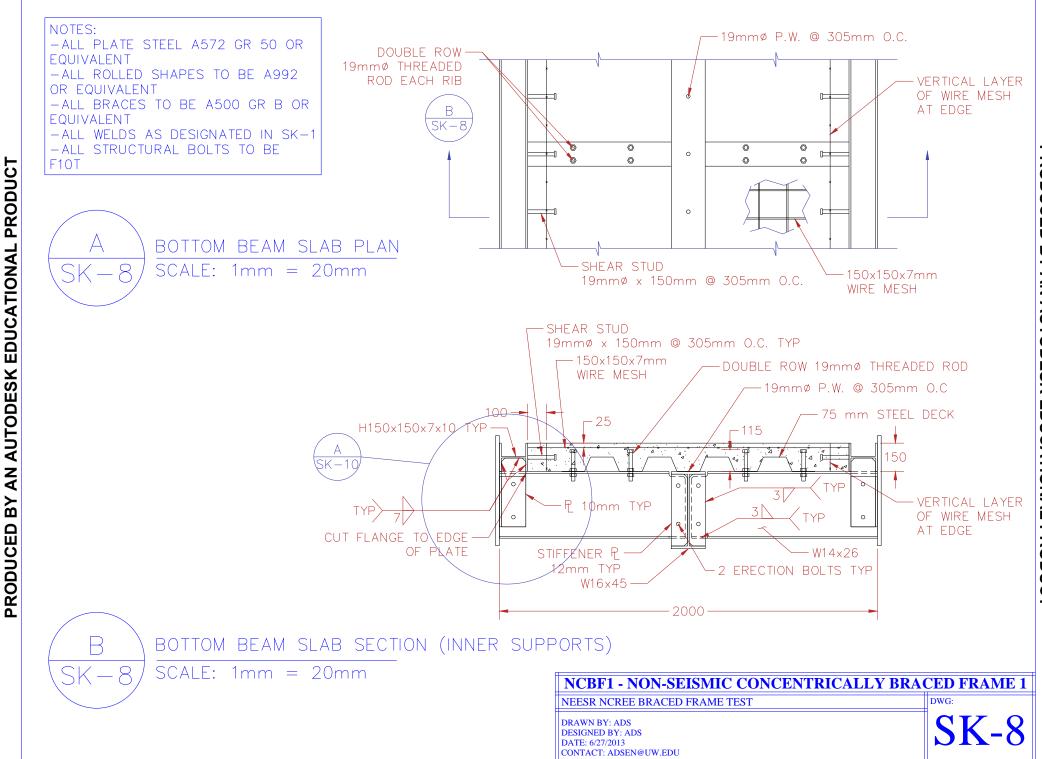
-ALL ROLLED SHAPES TO BE A992

-ALL BRACES TO BE A500 GR B OR

-ALL WELDS AS DESIGNATED IN SK-1

SK-7

-ALL STRUCTURAL BOLTS TO BE



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT BOTTOM BEAM SLAB SECTION (END SUPPORTS) SCALE: 1mm = 20mmSHEAR STUD 19mmø x 150mm @ 305mm O.C. TYP 150x150x7mm WIRE MESH 75 mm STEEL DECK - 25 PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT H150x150x7x10 150 P 10mm SIDES VERTICAL LAYER OF WIRE MESH P 12mm TYP AT EDGE CUT FLANGE TO EDGE W14x26 2-M20 OF PLATE F10T TYP 2 ERECTION BOLTS TYP 100 W12x72 2000 TYPICAL FLOOR BEAM-TO-COLUMN CONNECTION SCALE: 1mm = 20mmNOTES: -ALL PLATE STEEL A572 GR 50 OR 150x150x7mm-**EQUIVALENT** WIRE MESH -ALL ROLLED SHAPES TO BE A992 75 mm STEEL DECK OR EQUIVALENT -ALL BRACES TO BE A500 GR B OR EQUIVALENT -ALL WELDS AS DESIGNATED IN SK-1 -ALL STRUCTURAL BOLTS TO BE W14x26 F10T SIDES TYP NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1 SHEAR P 12mm TYF NEESR NCREE BRACED FRAME TEST 2 ERECTION BOLTS TYP **SK-9** DRAWN BY: ADS DESIGNED BY: ADS W12×72

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

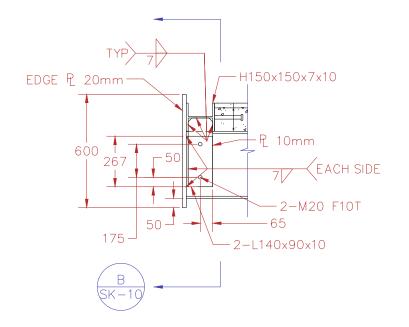
DATE: 6/27/2013

CONTACT: ADSEN@UW.EDU



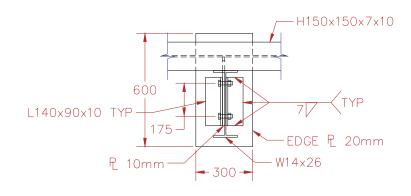
BOTTOM BEAM EDGE PLATE DETAIL (INNER SUPPORTS)

SCALE: 1mm = 20mm



BOTTOM BEAM EDGE
PLATE SECTION (INNER SUPPORTS)

SCALE: 1mm = 20mm





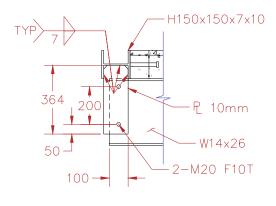
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

BOTTOM BEAM EDGE PLATE DETAIL (END SUPPORTS)

SCALE: 1mm = 20mm

NOTES:

- -ALL PLATE STEEL A572 GR 50 OR EQUIVALENT
- -ALL ROLLED SHAPES TO BE A992 OR EQUIVALENT
- -ALL BRACES TO BE A500 GR B OR EQUIVALENT
- -ALL WELDS AS DESIGNATED IN SK-1
- -ALL STRUCTURAL BOLTS TO BE F10T

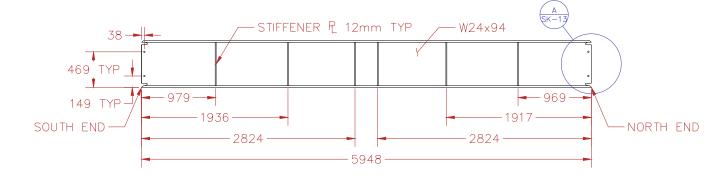


NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1	
NEESR NCREE BRACED FRAME TEST	DWG:
DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU	SK-10



TOP BEAM FABRICATION DETAIL

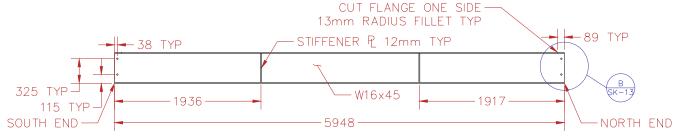
SCALE: 1mm = 50mm





BOTTOM BEAM FABRICATION DETAIL

SCALE: 1mm = 50mm

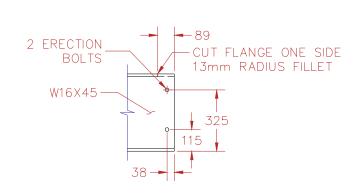


NOTES:

- -ALL PLATE STEEL A572 GR 50 OR EQUIVALENT
- -ALL ROLLED SHAPES TO BE A992 OR EQUIVALENT
- -ALL BRACES TO BE A500 GR B OR EQUIVALENT
- -ALL WELDS AS DESIGNATED IN SK-1
- -ALL STRUCTURAL BOLTS TO BE F10T

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1 NEESR NCREE BRACED FRAME TEST DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU DRAWN BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU





-30 TYP

- W24×94

45° BEVEL TYP

23 TYP

2 ERECTION BOLTS

469

R10mm TYP

149





PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

- -ALL PLATE STEEL A572 GR 50 OR EQUIVALENT
- -ALL ROLLED SHAPES TO BE A992 OR EQUIVALENT
- -ALL BRACES TO BE A500 GR B OR EQUIVALENT
- -ALL WELDS AS DESIGNATED IN SK-1
- -ALL STRUCTURAL BOLTS TO BE F10T

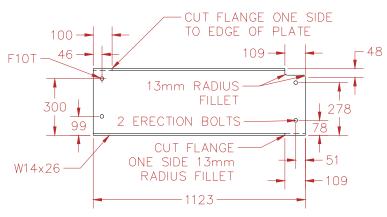




TOP FLOOR BEAM (INNER) FABRICATION DETAIL

SCALE: 1mm = 20mm







PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

TOP FLOOR BEAM (END) FABRICATION DETAIL

SCALE: 1mm = 20mm

2-M20 F10T 300 2 ERECTION BOLTS 99 1124 W14x26

CUT FLANGE ONE SIDE TO EDGE OF PLATE

NOTES:

- PLATE STEEL A572 GR 50 OR EQUIVALENT
- ROLLED SHAPES TO BE A992 OR EQUIVALENT
- -ALL BRACES TO BE A500 GR B OR EQUIVALENT
- -ALL WELDS AS DESIGNATED IN SK-1
- -ALL STRUCTURAL BOLTS TO BE F10T

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1 NEESR NCREE BRACED FRAME TEST DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU



BOTTOM FLOOR BEAM (INNER) FABRICATION DETAIL

SCALE: 1mm = 20mm

CUT FLANGE ONE SIDE TO EDGE OF PLATE

2-M20 75 85 40

F10T 13mm RADIUS FILLET 278

CUT FLANGE ONE SIDE 13mm RADIUS FILLET 36

ONE SIDE 13mm RADIUS FILLET 85

 $\begin{array}{c}
 B \\
 SK-15
\end{array}$

BOTTOM FLOOR BEAM (END) FABRICATION DETAIL

SCALE: 1mm = 20mm

TO EDGE OF PLATE

50 — 25

2-M20 F10T

311 2 ERECTION BOLTS

77

W14x26 — 942

CUT FLANGE ONE SIDE

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

NOTES:

- -ALL PLATE STEEL A572 GR 50 OR EQUIVALENT
- -ALL ROLLED SHAPES TO BE A992 OR EQUIVALENT
- -ALL BRACES TO BE A500 GR B OR EQUIVALENT
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NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1 NEESR NCREE BRACED FRAME TEST DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU DRAWN BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU

DRAWN BY: ADS DESIGNED BY: ADS DATE: 6/27/2013 CONTACT: ADSEN@UW.EDU

NEESR NCREE BRACED FRAME TEST

SK-1

NCBF1 - NON-SEISMIC CONCENTRICALLY BRACED FRAME 1

NOTES:

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PLATE STEEL A572 GR 50 OR EQUIVALENT

BRACES TO BE A500 GR B OR EQUIVALENT

-ALL WELDS AS DESIGNATED IN SK-1

-ALL STRUCTURAL BOLTS TO BE F10T

BRACE-TO-BEAM/COLUMN CONNECTION FABRICATION DETAIL SCALE: 1mm = 20mm

