





## SPECIAL INSPECTION SCHEDULES

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE (AISC 360-15 CHAPTER N)		
INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
WPS AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM (3)	O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) <ul style="list-style-type: none"> <li>JOINT PREPARATIONS</li> <li>DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY AND LOCATION)</li> <li>BACKING TYPE AND FIT (IF APPLICABLE)</li> </ul>	O	O
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) <ul style="list-style-type: none"> <li>JOINT PREPARATIONS</li> <li>DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY AND LOCATION)</li> </ul>	P	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT-UP OF FILLET WELDS <ul style="list-style-type: none"> <li>DIMENSIONS (ALIGNMENT, GAPS AT ROOT)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY AND LOCATION)</li> </ul>	O	O
CHECK WELDING EQUIPMENT	O	-
INSPECTION TASKS DURING WELDING		
CONTROL AND HANDLING OF WELDING CONSUMABLES <ul style="list-style-type: none"> <li>PACKAGING</li> <li>EXPOSURE CONTROL</li> </ul>	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS <ul style="list-style-type: none"> <li>WIND SPEED WITHIN LIMITS</li> <li>PRECIPITATION AND TEMPERATURE</li> </ul>	O	O
WPS FOLLOWED <ul style="list-style-type: none"> <li>SETTINGS ON WELDING EQUIPMENT</li> <li>TRAVEL SPEED</li> <li>SELECTED WELDING MATERIALS</li> <li>SHIELDING GAS TYPE/FLOW RATE</li> <li>PREHEAT APPLIED</li> <li>INTERPASS TEMPERATURE MAINTAINED (MIN/MAX.)</li> <li>PROPER POSITION (F, Y, H, OH)</li> </ul>	O	O
WELDING TECHNIQUES <ul style="list-style-type: none"> <li>INTERPASS AND FINAL CLEANING</li> <li>EACH PASS WITHIN PROFILE LIMITATIONS</li> <li>EACH PASS MEETS QUALITY REQUIREMENTS</li> </ul>	O	O
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P
INSPECTION TASKS AFTER WELDING		
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA <ul style="list-style-type: none"> <li>CRACK PROHIBITION</li> <li>WELD/BASE-METAL FUSION</li> <li>CRATER CROSS SECTION</li> <li>WELD PROFILES</li> <li>WELD SIZE</li> <li>UNDERCUT</li> <li>POROSITY</li> </ul>	P	P
ARC STRIKES	P	P
K-AREA (4)	P	P
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (5)	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE (AISC 360-15 CHAPTER N)		
<b>INSPECTION TASKS PRIOR TO HIGH STRENGTH BOLTING</b>	<b>QC</b>	<b>QA</b>
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	0	0
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	0	0
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	0
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	0
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	0	0
<b>INSPECTION TASKS DURING HIGH STRENGTH BOLTING</b>		
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	0	0
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	0
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	0
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	0	0
<b>INSPECTION TASKS AFTER HIGH STRENGTH BOLTING</b>		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

NOTES:

1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH AISC 360-16 SECTION N6.
2. INSPECTION TASKS
  - A. OBSERVE (O)

THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
  - B. PERFORM (P)

THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
3. THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
4. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD.
5. AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1C) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1D) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

STRUCTURAL STEEL SEISMIC FORCE RESISTING SYSTEM SPECIAL INSPECTION SCHEDULE (AISC 341-15 CHAPTER J)				
VISUAL INSPECTION TASKS PRIOR TO WELDING	QC		QA	
	TASK	DOC.	TASK	DOC.
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	-	O	-
WELDER IDENTIFICATION SYSTEM	O	-	O	-
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) -JOINT PREPARATION -DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) -CLEANLINESS (CONDITION OF STEEL SURFACES) -TACKING (TACK WELD QUALITY AND LOCATION) -BACKING TYPE AND FIT (IF APPLICABLE)	P/O (3)	-	O	-
CONFIGURATION AND FINISH OF ACCESS HOLES	O	-	O	-
FIT-UP OF FILLET WELDS -DIMENSIONS (ALIGNMENT, GAPS AT ROOT) -CLEANLINESS (CONDITION OF STEEL SURFACES) -TACKING (TACK WELD QUALITY AND LOCATION)	P/O (3)	-	O	-
VISUAL INSPECTION TASKS DURING WELDING				
WPS FOLLOWED -SETTINGS ON WELDING EQUIPMENT -TRAVEL SPEED -SELECTED WELDING MATERIALS -SHIELDING GAS TYPE/FLOW RATE -PREHEAT APPLIED -INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) -PROPER POSITION (F, V, H, OH) -INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	-	O	-
USE OF QUALIFIED WELDERS	O	-	O	-
CONTROL AND HANDLING OF WELDING CONSUMABLES -PACKAGING -EXPOSURE CONTROL	O	-	O	-
ENVIRONMENTAL CONDITIONS -WIND SPEED WITHIN LIMITS -PRECIPITATION AND TEMPERATURE	O	-	O	-
WELDING TECHNIQUES -INTERPASS AND FINAL CLEANING -EACH PASS WITHIN PROFILE LIMITATIONS -EACH PASS MEETS QUALITY REQUIREMENTS	O	-	O	-
NO WELDING OVER CRACKED TACKS	O	-	O	-
VISUAL INSPECTION TASKS AFTER WELDING				
WELDS CLEANED	O	-	O	-
SIZE, LENGTH, AND LOCATION OF WELDS	P	-	P	-
WELDS MEET VISUAL ACCEPTANCE CRITERIA -CRACK PROHIBITION -WELD/BASE-METAL FUSION -CRATER CROSS SECTION -WELD PROFILES AND SIZE -UNDERCUT -POROSITY	P	D	P	D
K-AREA (4)	P	D	P	D
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P	D	P	D
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	P	D	P	D
REPAIR ACTIVITIES	P	-	P	D

STRUCTURAL STEEL SEISMIC FORCE RESISTING SYSTEM SPECIAL INSPECTION SCHEDULE (AISC 341-15 CHAPTER J)					
INSPECTION TASKS PRIOR TO HIGH STRENGTH BOLTING	QC		QA		
	TASK	DOC.	TASK	DOC.	
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL	O	-	O	-	
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	-	O	-	
CONNECTING ELEMENTS, INCLUDING THE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	-	O	-	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED	P	D	O	D	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	-	O	-	
INSPECTION TASKS DURING HIGH STRENGTH BOLTING					
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	-	O	-	
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	-	O	-	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	-	O	-	
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	-	O	-	
INSPECTION TASKS AFTER HIGH STRENGTH BOLTING					
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS	P	D	P	D	
OTHER INSPECTION TASKS					
RBG REQUIREMENTS, IF APPLICABLE -CONTOUR AND FINISH -DIMENSIONAL TOLERANCES	P	D	P	D	
PROTECTED ZONE -NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE	P	D	P	D	

- NOTES:**
1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH AISC 360-16 SECTION N6.
  2. INSPECTION TASKS
    - A. OBSERVE (O)

THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
    - B. PERFORM (P)

THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
    - C. DOCUMENT (D)

THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOTED THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE EITHER IN THE INSPECTION REPORT.
  3. FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM (UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED).
  4. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF THE WELDING.

The final special inspection report must be on site during City inspections.

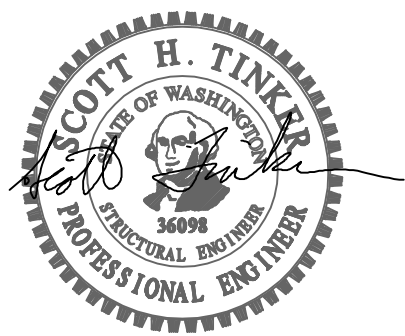


**QUANTUM**  
CONSULTING ENGINEERS

1511 THIRD AVENUE  
SUITE 323  
SEATTLE, WA 98101  
TEL 206.957.3900  
FAX 206.957.3901  
[www.quantumce.com](http://www.quantumce.com)

PRCTI20250117

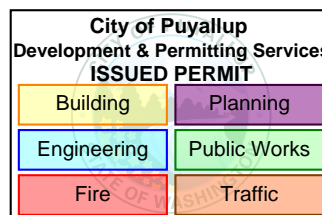
**SEAL**



**PROJECT:**

**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

**APPROVAL:**

[illegible]

NO.	DESCRIPTION	DATE	BY
ISSUES: ○		REVISIONS: △	
P.M.	SHT		
P.E.	TYM		
DRAWN BY:		SSN	
SCALE:		AS SHOWN	
DATE:		12/20/24	
JOB NO.		19305.04	
SHEET TITLE:			

## SPECIAL INSPECTION SCHEDULES

**SHEET NO.**

## S1.1



1. THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS REFER TO THE PROJECT SPECIFICATIONS, THE STRUCTURAL NOTES, AND THE NOTES BELOW. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
2. CONTINUOUS INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK. REQUIRING SPECIAL INSPECTION (IBC 1702). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
3. INSPECTION OF DRILLED ANCHORS, INCLUDING EXPANSION AND ADHESIVE GROUTED ANCHORS, WHERE SPECIFIED, SHALL INCLUDE VISUAL VERIFICATION OF DRILLED HOLE DEPTH, SPACING, EDGE DISTANCES AND HOLE CLEANING. FOR GROUTED ANCHORS, GROUT INSTALLATION SHALL BE OBSERVED AND GROUT PRODUCT SPECIFICATION AND PREPARATION SHALL BE VERIFIED.
4. INSPECTION OF PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
5. EXCEPTIONS - SPECIAL INSPECTION IS NOT REQUIRED FOR:
  - a) CLADDING AND VENEER WEIGHING 5 PSF OR LESS.
  - b) INTERIOR NON-BEARING WALLS WEIGHING 15 PSF OR LESS.
  - c) ARCHITECTURAL COMPONENTS IN STRUCTURES 30 FEET OR LESS IN HEIGHT.

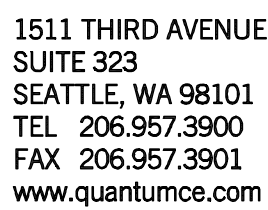
Periodic special inspection of plumbing, mechanical and electrical components shall be required for the following:

1. Anchorage of electrical equipment for emergency and standby power systems in structures assigned to Seismic Design Category C, D, E or F.
2. Anchorage of other electrical equipment in structures assigned to Seismic Design Category E or F.
3. Installation and anchorage of piping systems designed to carry hazardous materials and their associated mechanical devices in structures assigned to Seismic Design Category C, D, E or F.
4. Installation and anchorage of ductwork designed to carry hazardous metals in structures assigned to Seismic Design Category C, D, E or F.
5. Installation and anchorage of vibrating systems designed to carry hazardous materials in structures assigned to Seismic Design Category C, D, E or F where the structural construction documents require a nominal clearance of 1/4 inch (6.4 mm) or less between the equipment support frame and restraint.
6. Installation of mechanical and electrical equipment, including duct work, piping systems and their structural supports, where automatic sprinkler systems are installed in structures assigned to Seismic Design Category C, D, E or F, shall be in accordance with one of the following:
  - 6.1. Minimum clearances have been provided as required by Section 13.2.3 ASCE/SEI 7.
  - 6.2. A nominal clearance of not less than 3 inches (76 mm) has been provided between automatic sprinkler system drops and springs and structural members supporting the piping system.

Where flexible sprinkler hose fittings are used, special inspection of minimum clearances is not required.

## SPECIAL INSPECTION SCHEDULE, ABBREVIATIONS

## S1.2



PRCTI20250117

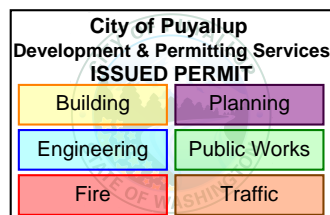
**SEAL**



**PROJECT:**

**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

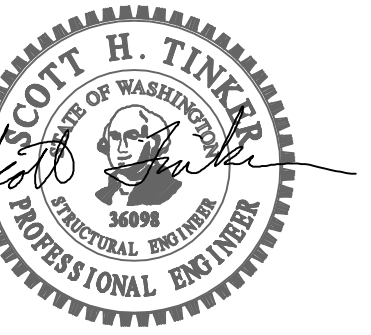
**APPROVAL:**

[illegible]





SEAL:



**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

	PERMIT SET	12/20/24	
	PERMIT RESUBMITTAL SET	3/14/25	


	PERMIT SET	12/20/24	
	PERMIT RESUBMITTAL SET	3/14/25	

NO.	DESCRIPTION	DATE	BY
ISSUES: ○		REVISIONS: △	
P.M.	SHT		
P.E.	TVM		
DRAWN BY:		SSN	
SCALE:		AS SHOWN	
DATE:		12/20/24	
JOB NO.		19305.04	

SHEET NO.

## S2.0

1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
3. SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S3.0 FOR TYPICAL CONCRETE AND FOUNDATION DETAILS. SEE SHEETS S5.0 AND S5.1 FOR TYPICAL BRB FRAME ELEVATIONS.
4. SLAB-ON-GRADE SHALL BE 6" THICK CONCRETE REINFORCED WITH #4 @ 16" O.C. EACH WAY. U.O.N. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SUB-GRADE MOISTURE BARRIER AND ELEVATIONS, ETC.

5. WHERE NEW CONCRETE IS CAST AGAINST EXISTING CONCRETE FOUNDATIONS, DRILL AND EPOXY #4 DOWELS X 3'-0" LONG TO LAP WITH THE NEW FOOTING LONGITUDINAL REINFORCING (5" MINIMUM EMBEDMENT), U.O.N.
6. PROJECT TOP OF SLAB (T.O.S.) ELEVATION IS 484'-6" (ORIGINAL CONSTRUCTION DATUM), TYPICAL TOP OF EXISTING INTERIOR FOOTING ELEVATION = 483'-8" U.O.N. TYPICAL TOP OF EXISTING EXTERIOR FOOTING ELEVATION VARIES.
7. COLUMNS INDICATED ARE AT THIS LEVEL. ALL ORIGINAL CONSTRUCTION COLUMNS ARE A36 GR. 36.
8. FxX INDICATES SPREAD FOOTING TYPE. SEE DETAILS FOR REINF. AND DIMENSIONS
9.  INDICATES EXISTING FOOTING. SEE 5/53.0 FOR SCHEDULE.

INDICATES STEEL COLUMN SIZE

INDICATES COLUMN TO BE RETROFIT FOR DUCTILITY (FULL HEIGHT) PER 15/553.

INDICATES NON-TYPICAL EXISTING TOP OF SPREAD FOOTING ELEVATION, SEE PLAN NOTE 5.

T/EL FTG.  
EL = 487'-4"

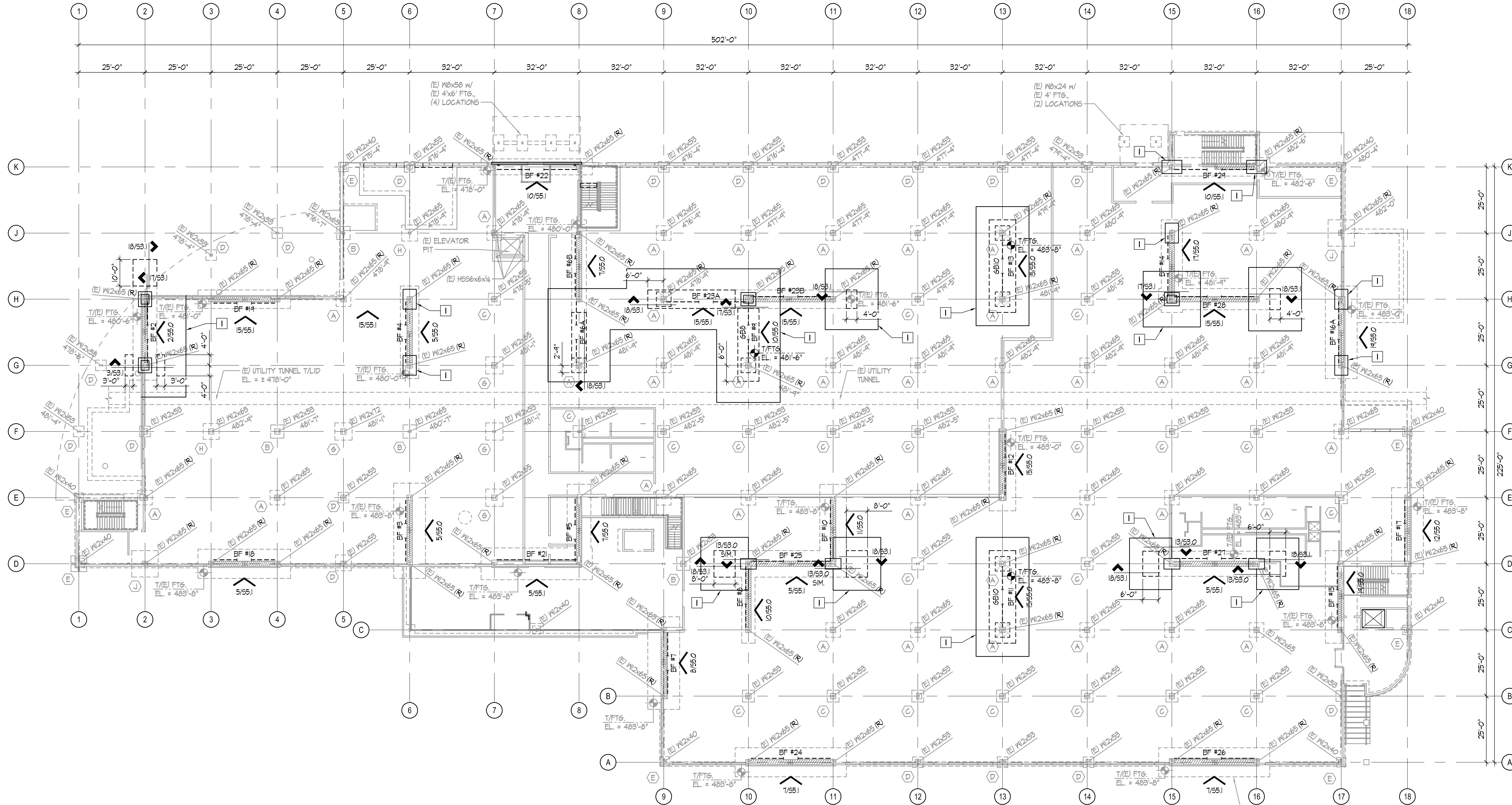
INDICATES BRACED FRAME TOP OF (E) FOOTING ELEVATION


INDICATES DEMOLISHED FOOTING

T/FTG.  
EL = 487'-4"

INDICATES BRACED FRAME TOP OF FOOTING ELEVATION

1 DEMO & REPLACE EXISTING  
SLAB FOR FOUNDATION  
RETROFIT

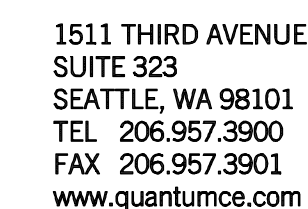


 **FOUNDATION PLAN**  
SCALE: 1/16" = 1'-0"

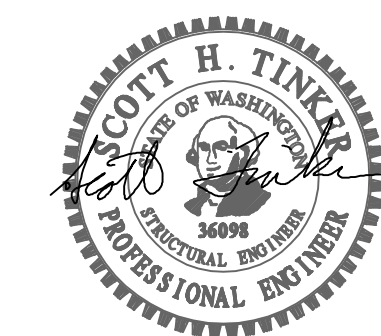
(E) BRACE FRAME  
FOOTING. SEE 7/53.0  
FOR SCHEDULE

File: 305-s200.dwg Plotted: 03/14/25 11:38 am





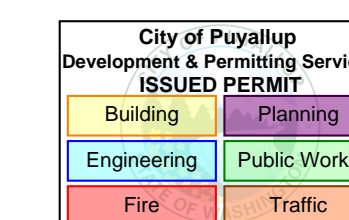
SEAL



**PROJECT:**

**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

**APPROVAL:**



Welding to be completed by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.

	PERMIT SET	12/20/24	
	PERMIT RESUBMITTAL SET	3/14/25	

NO.	DESCRIPTION	DATE
ISSUES: ○		REVISIONS: /
P.M.	SHT	
P.E.	TVM	
DRAWN BY:		SSN
SCALE:		AS SHOWN
DATE:		12/20/24
JOB NO.		19305.04

## SECOND FLOOR FRAMING PLAN

SHEET NO.

## S2.1

SECOND FLOOR FRAMING PLAN NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
3. SEE SHEETS S1.0 AND S1.1 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
4. FINISH FLOOR EL. = 504'-6" TO MATCH EXISTING. FIELD VERIFY.
5. TYPICAL EXISTING FLOOR SYSTEM NORTH OF GRID 6 IS 3-1/2" CONCRETE OVER 3' 20 GA. COMPOSITE METAL DECK (6-1/2" TOTAL). TYPICAL EXISTING FLOOR SYSTEM SOUTH OF GRID 6 IS 2-15/16" CONCRETE OVER 9/16" SHALLOX DECK (3-1/2" TOTAL).
6. ALL ORIGINAL CONSTRUCTION BEAMS ARE A572 GR. 50 U.O.N.

LEGEND:

- -- DENOTES BRACED FRAME WITH NEW BUCKLING RESTRAINED BRACES ABOVE THIS LEVEL.
- INDICATES LOCATION OF (N) BOTTOM FLANGE BRACING FOR (E) W-SHAPE BEAM FOR 3/55.3.
- ◆ INDICATES LOCATION OF (N) BOTTOM FLANGE BRACING FOR (E) W-SHAPE BEAM FOR 20/55.2.
- TEMP INDICATES ESTIMATED LOCATIONS OF BEAMS THAT MAY REQUIRE SHORING DURING CONSTRUCTION. SHORING IS MEANS AND METHODS AND SHALL BE VERIFIED BY THE CONTRACTOR.

KEY NOTES:

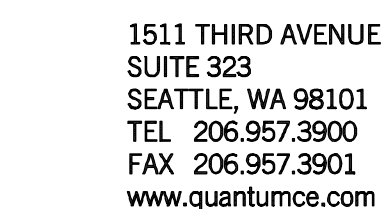
- I REINFORCE BEAMS WITH STEEL PLATES



 **SECOND FLOOR FRAMING PLAN**  
SCALE: 1/16" = 1'-0"

File: J05-s201.dwg Plotted: 03/14/25 11:38 am





PRCTI20250117

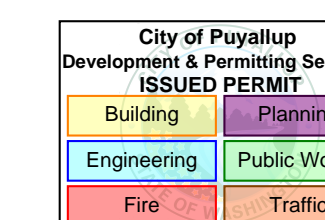
SEAL



**PROJECT:**

**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

**APPROVAL:**



Welding to be completed by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.

[illegible]

NO.	DESCRIPTION	DATE
ISSUES: ○		REVISIONS: /
P.M.	SHT	
P.E.	TVM	
DRAWN BY:	SSN	
SCALE:	AS SHOWN	
DATE:	12/20/24	
JOB NO.	19305.04	
SHEET TITLE:		

## ROOF FRAMING PLAN

SHEET NO.

## S2.2

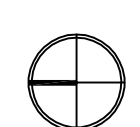
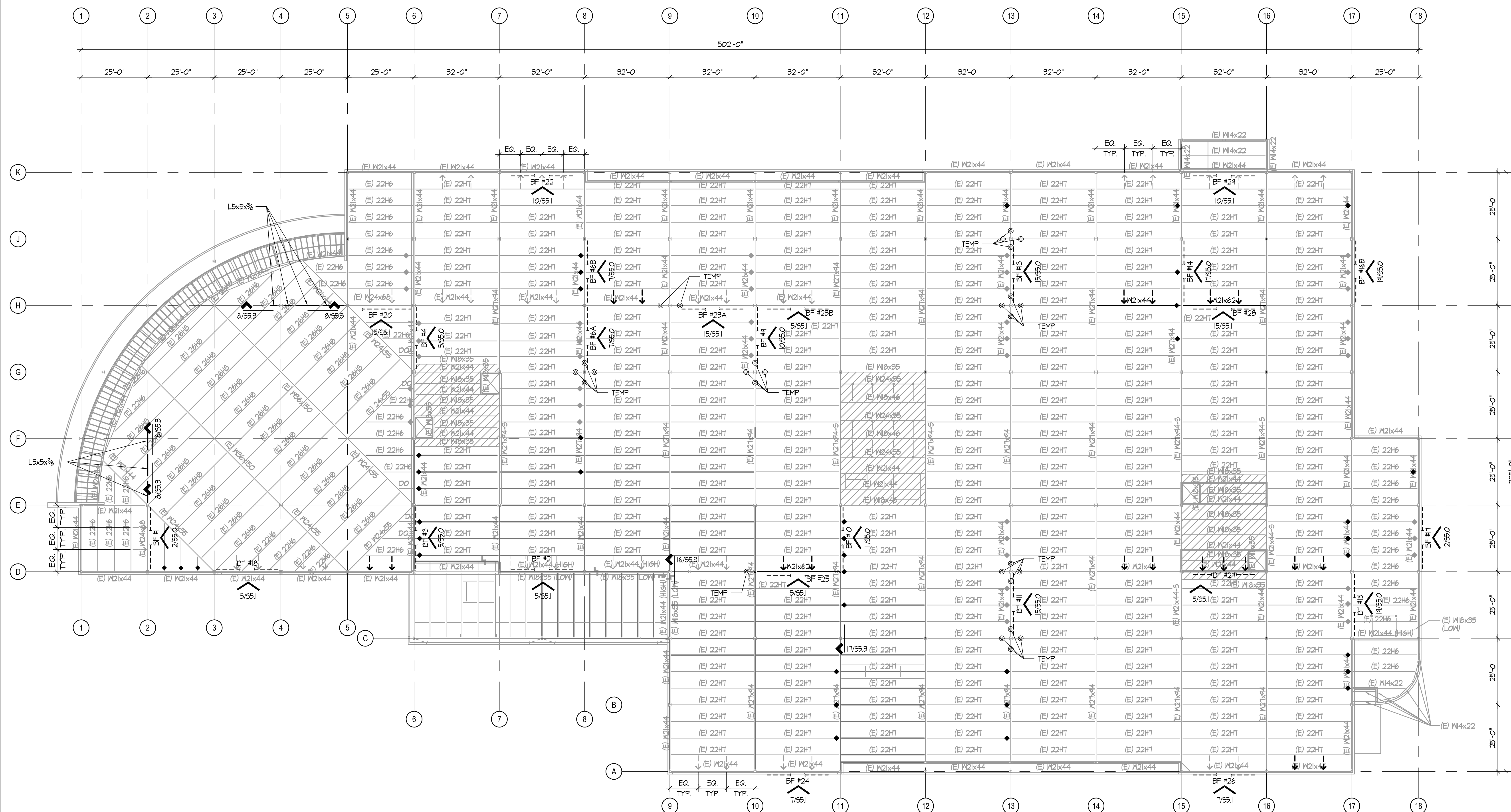
ROOF FRAMING PLAN NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
3. SEE SHEETS S1.0 AND S1.1 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
4. TOP OF STEEL JOISTS: AT RIDGE 522'-2", AT VALLEY: 521'-6". TO MATCH EXISTING - FIELD VERIFY.

5. TYPICAL ROOF SYSTEM 1-1/2" 20 GA. HSB-36 (Fy = 33 KSI) METAL ROOF DECK.
6. ALL ORIGINAL CONSTRUCTION W2T & 36 BEAMS ARE A572 GR. 50.  
ALL OTHER ORIGINAL CONSTRUCTION BEAMS ARE A36 GR. 36.

LEGEND:

- INDICATES LOCATION OF (N) BOTTOM FLANGE BRACING FOR (E) W-SHAPE BEAM FEER 3/55.3.
- ◆ INDICATES LOCATION OF (N) BOTTOM FLANGE BRACING FOR (E) W-SHAPE BEAM FEER 20/55.2.
- TEMP INDICATES ESTIMATED LOCATIONS OF BEAMS THAT MAY REQUIRE SHORING DURING CONSTRUCTION. SHORING IS MEANS AND METHODS AND SHALL BE VERIFIED BY THE CONTRACTOR.
- (E) W21x44.5 INDICATES PREVIOUSLY STRENGTHENED BEAM



## ROOF FRAMING PLAN

SCALE: 1/16" = 1'-0"

File: J05-s202.dwg Plotted: 03/14/25 11:38 am

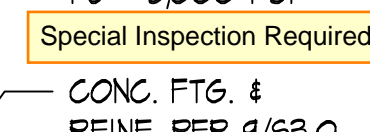




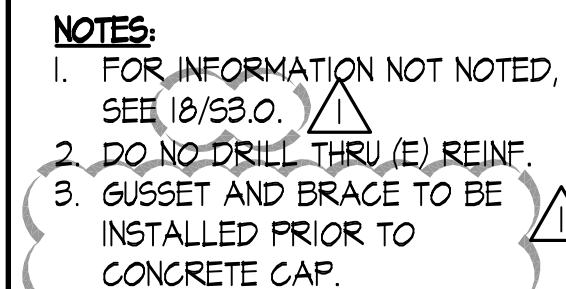




BALLAST CAP AT EXISTING CONCRETE PLINTH



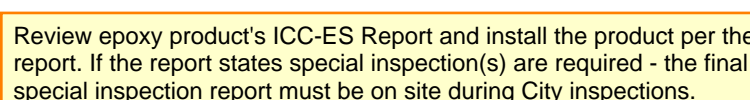
### CONCRETE PLINTH AT BRACED FRAME



BASE PLATE CONCRETE JACKET RETROFIT AT EXISTING CONCRETE PLINTH



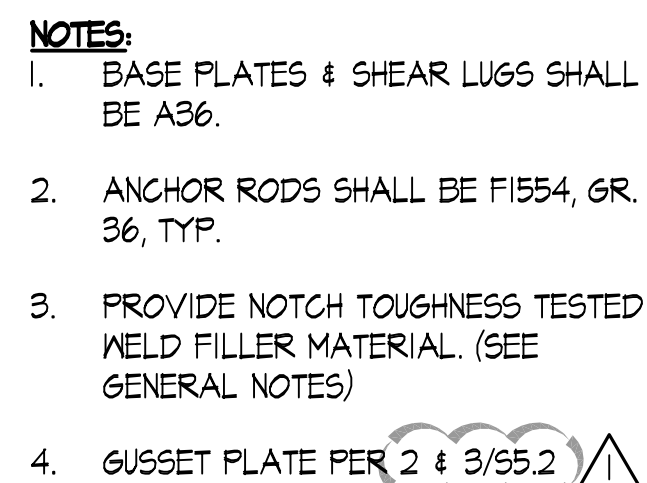
DETAIL



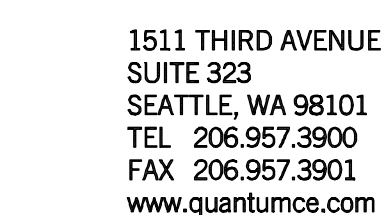
INTERSECTING BRACED FRAME BRACE PLATE RETROFIT



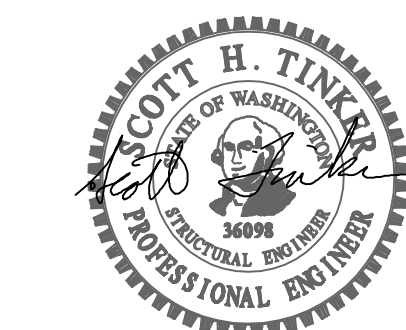
	GRADE BEAM EXTENSION
--	----------------------



BRACED FRAME BASE PLATE



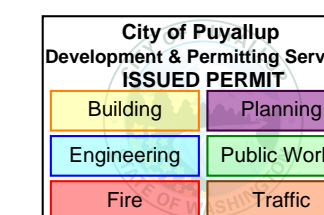
PRCTI20250117



**PROJECT:**

**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

**APPROVAL**



Welding to be completed by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.

	PERMIT SET	12/20/24
⚠	PERMIT RESUBMITTAL SET	3/14/25


NO.	DESCRIPTION	DATE	BY
ISSUES: ○		REVISIONS: △	
P.M.	SHI		
P.E.	TVM		
DRAWN BY:	SSN		
SCALE:	AS SHOWN		
DATE:	12/20/24		
JOB NO.	19305.04		
SHEET TITLE:			

## CONCRETE DETAILS

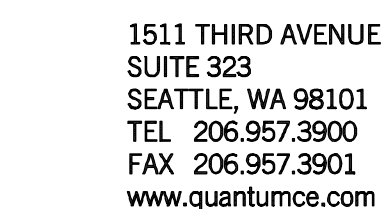
SHEET NO.

### S3.1

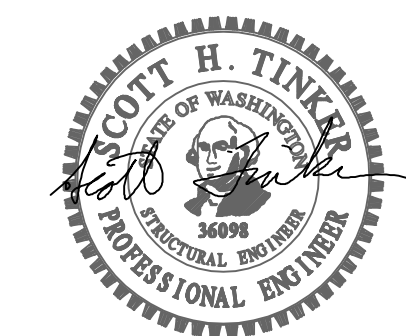








SEAL



**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

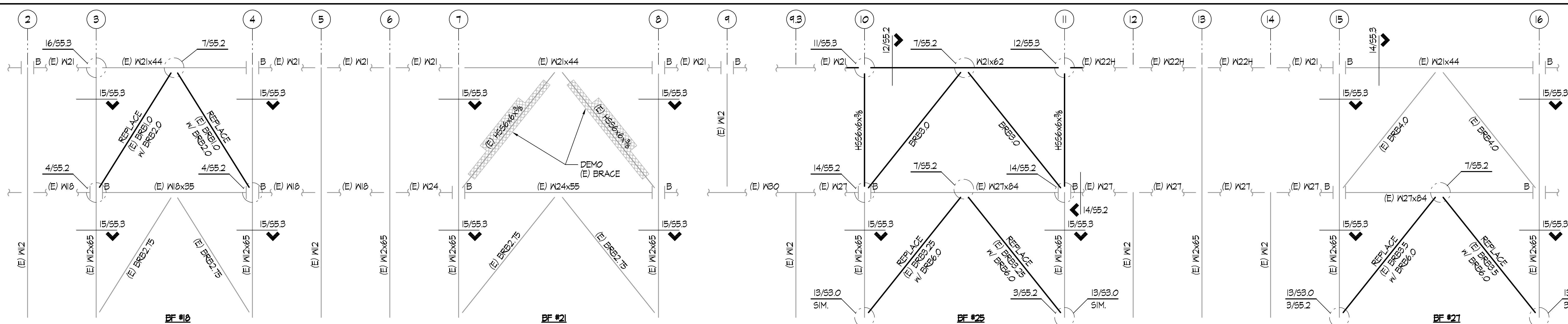
Welding to be completed by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.

NO.	DESCRIPTION	DATE
ISSUES: <input type="radio"/>		REVISIONS: <input checked="" type="radio"/>
P.M.	SHT	
P.E.	TVM	
DRAWN BY:	SSN	
SCALE:	AS SHOWN	
DATE:	12/20/24	
JOB NO.	19305.04	
SHEET TITLE:		

## BRACED FRAME ELEVATIONS

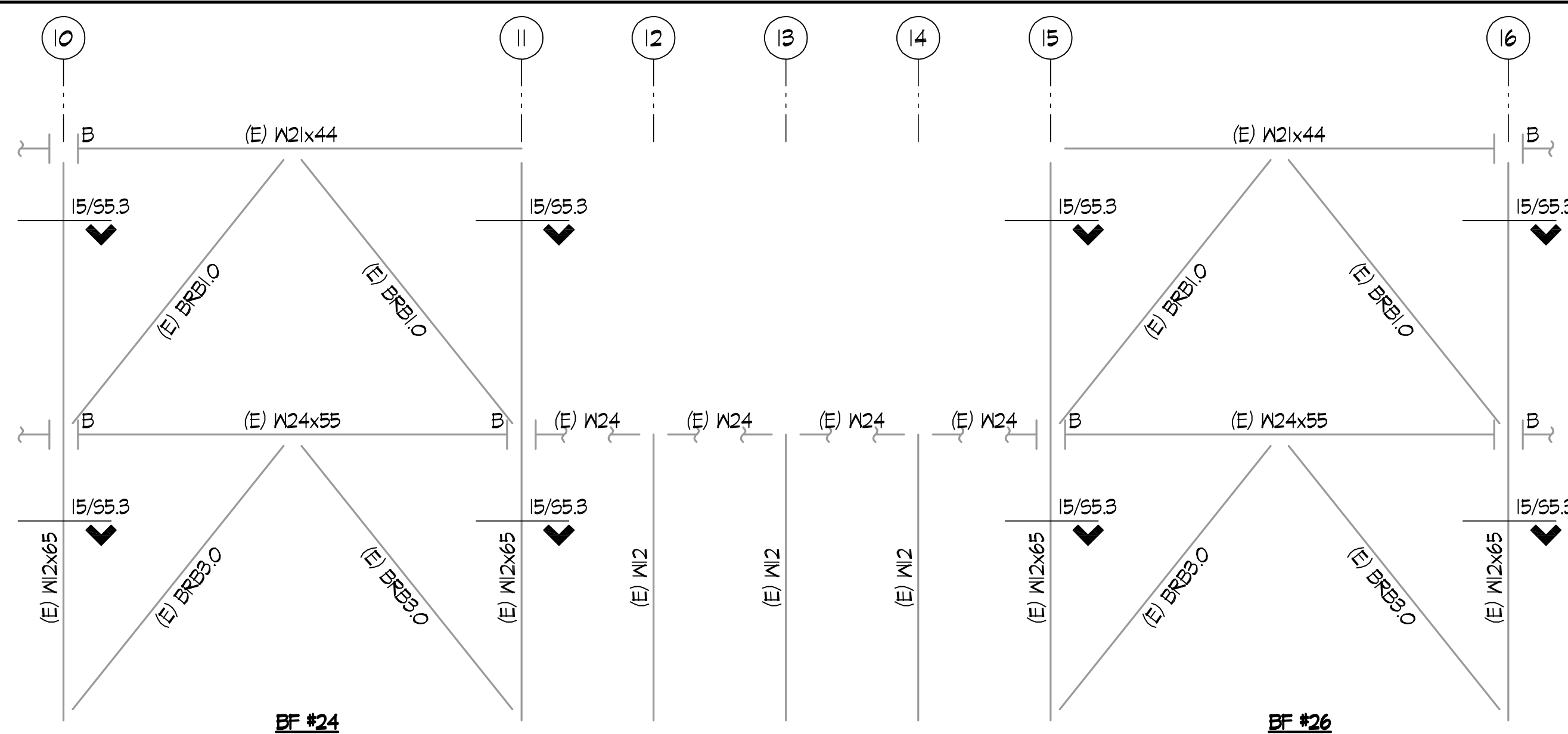
SHEET NO. \_\_\_\_\_

## S5.1

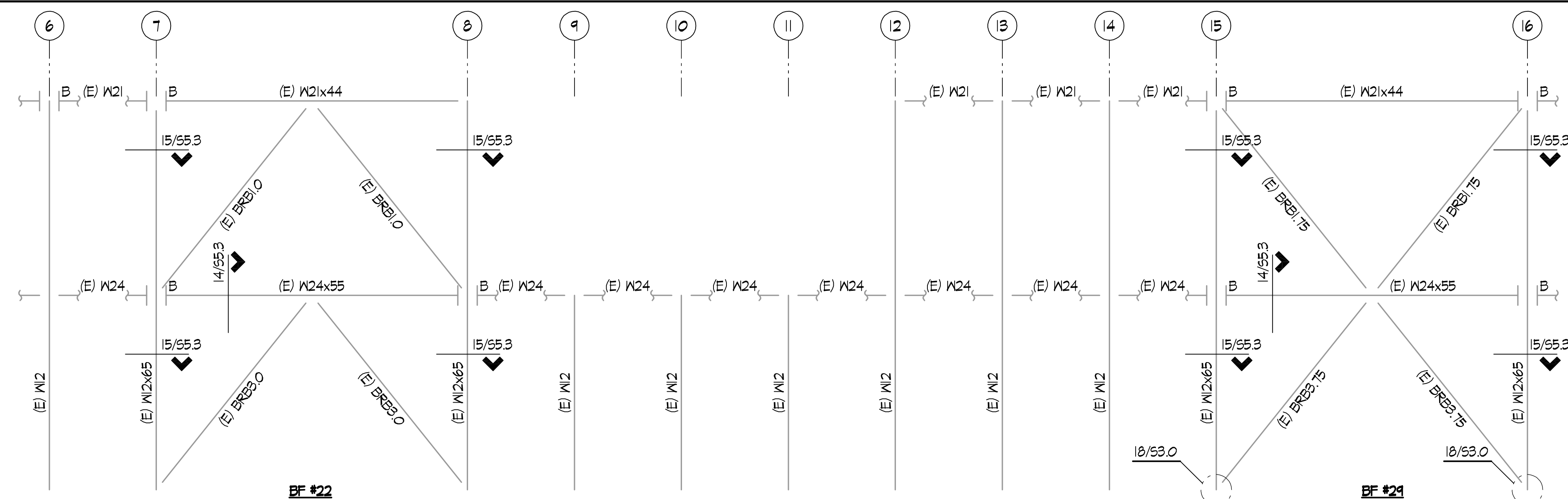


SCALE: NONE

	三
--	---

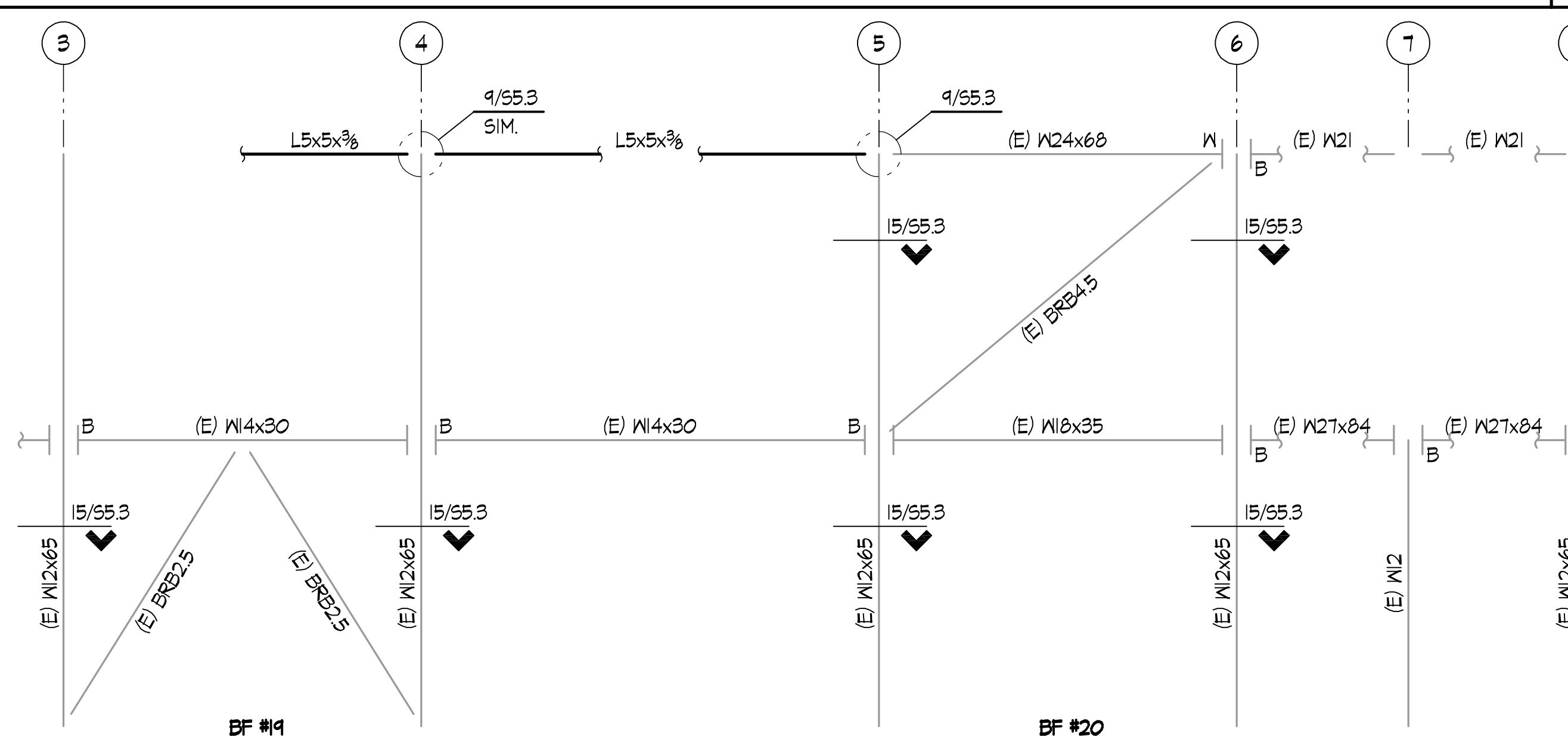


SCALE: NONE



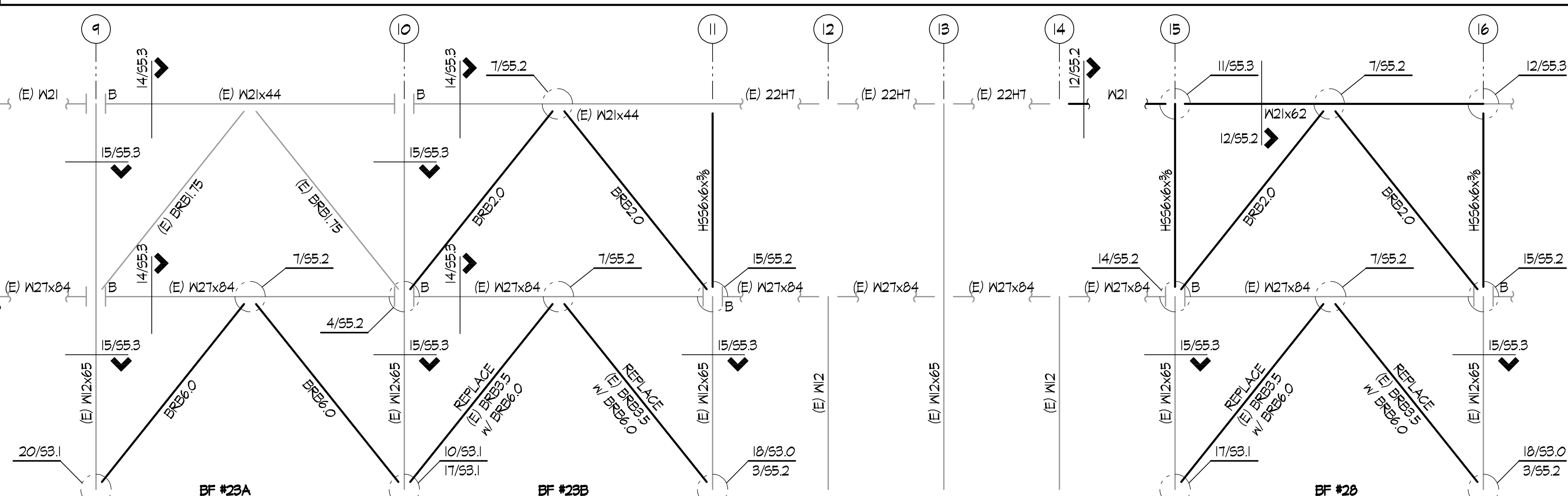
SCALE: NONE

10	
----	--



SCALE: NONE

	1
--	---



SCALE: NONE

	1
--	---

ESTIMATED HSS CASING SIZES		
CORE AREA	CASING	
SQ (IN)	H (IN)	W (IN)
1.00 - 3.75	8	8
4.00 - 8.00	10	10

~~BOX~~ — INDICATES NEW BUCKLING RESTRAINED  
BRACE PER CORE BRACE

x65 — INDICATES (E) W-SHAPE COL

INDICATES ATTACHMENT  
B = (E) BOLTED  
W = (E) WELDED

INDICATES BEAM END  
PLATE CONNECTION

File: 305-5501.dwg Plotted: 03/14/25 11:39 am

### DETAIL

SCALE: 1/8"=1'-0"

16

SCALE: 1/8"=1'-0"

17

DETAIL

SCALE: 1/8"=1'-0"

18

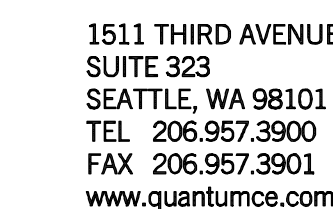
SCALE: NONE

9	BRACED FRAME LEGEND
---	---------------------

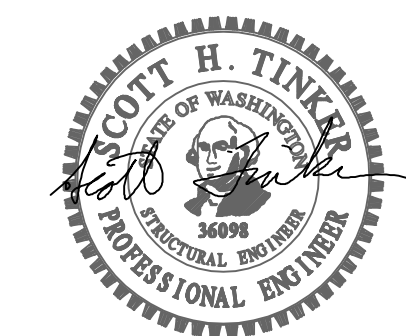
SCALE: NONE

	2
--	---





SEAL



**BENAROYA SHB&TC**  
**SOUTH BUILDING**  
1015 39TH AVE SE  
PUYALLUP, WA 98374

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

PERMIT SET	12/20/24
------------	----------

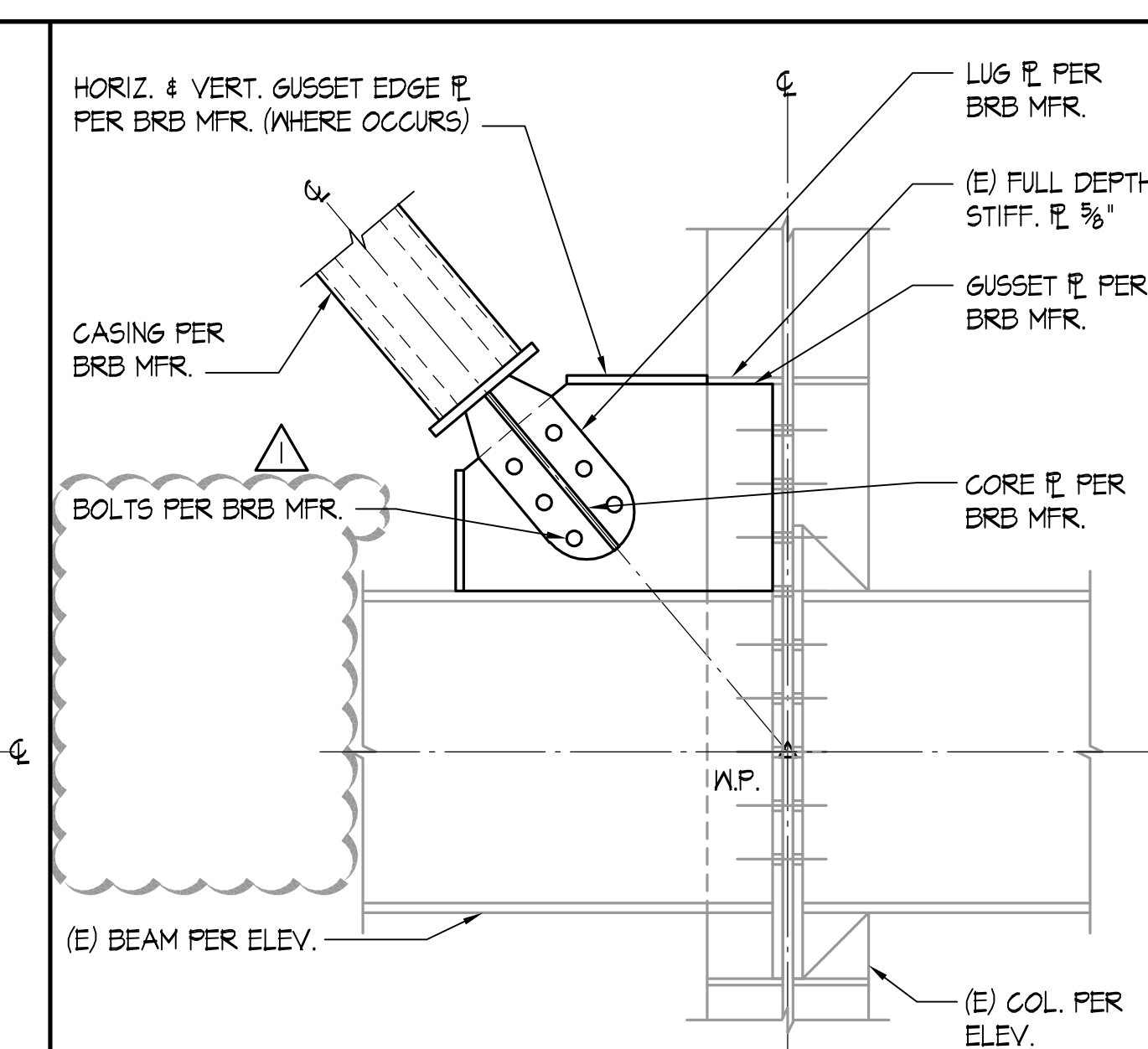
[illegible]

NO.	DESCRIPTION	DATE	B
ISSUES: ○		REVISONS: △	
P.M.	SHT		
P.E.	TVM		
DRAWN BY:		SSN	
SCALE:		AS SHOWN	
DATE:		12/20/24	
JOB NO.		19305.04	

## BRACED FRAME DETAILS

SHEET NO.

## S5.2



SCALE: 1"=1'-0"



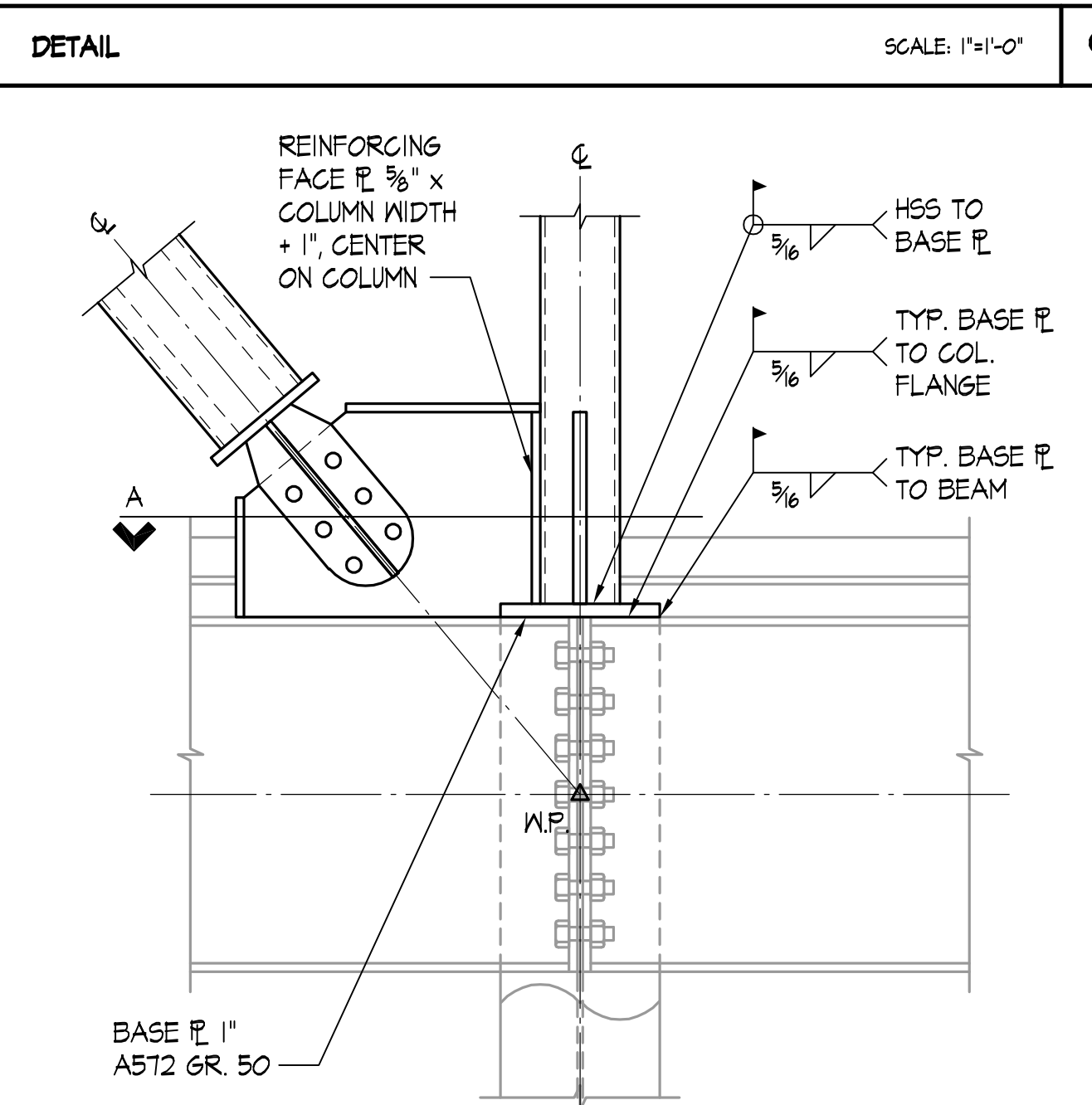
TYP. WELDED CHEVRON BRACE CONNECTIONS (TOP)

SCALF, E. 1970-1971



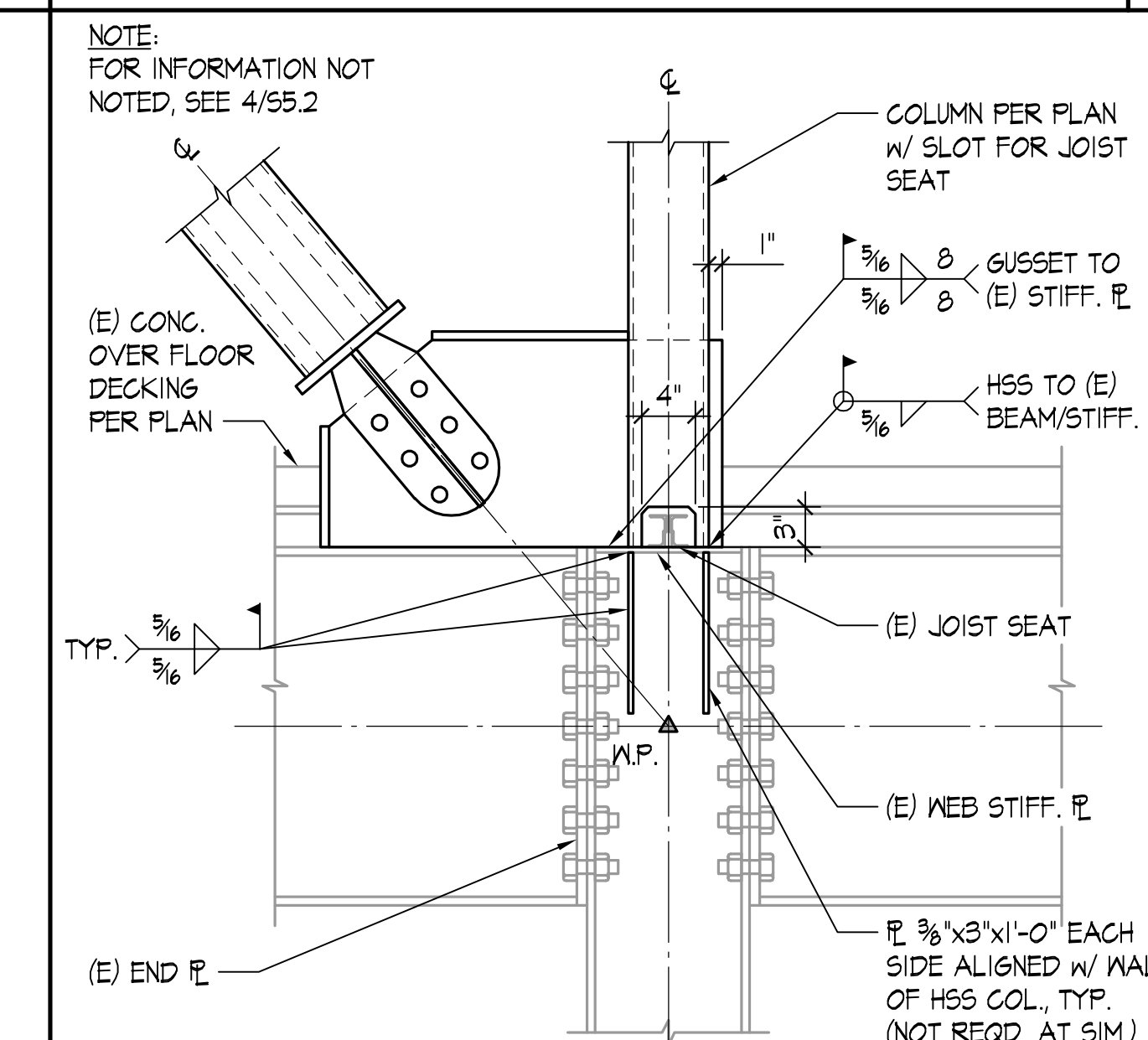
TYP. WELDED CHEVRON BRACE CONNECTIONS (TOP) SCALE: 1"=1'-0"

SCALE: 10 = 100%



9	
---	--

DETAIL SCALE: 1"=1'-0"



SCALE: 1"=1'-0"

NEW ROOF BEAM DIAPHRAGM FASTENING

SCALE: 1"=1'-0"

15

COLUMN BASE - INTERSECTING BRACES

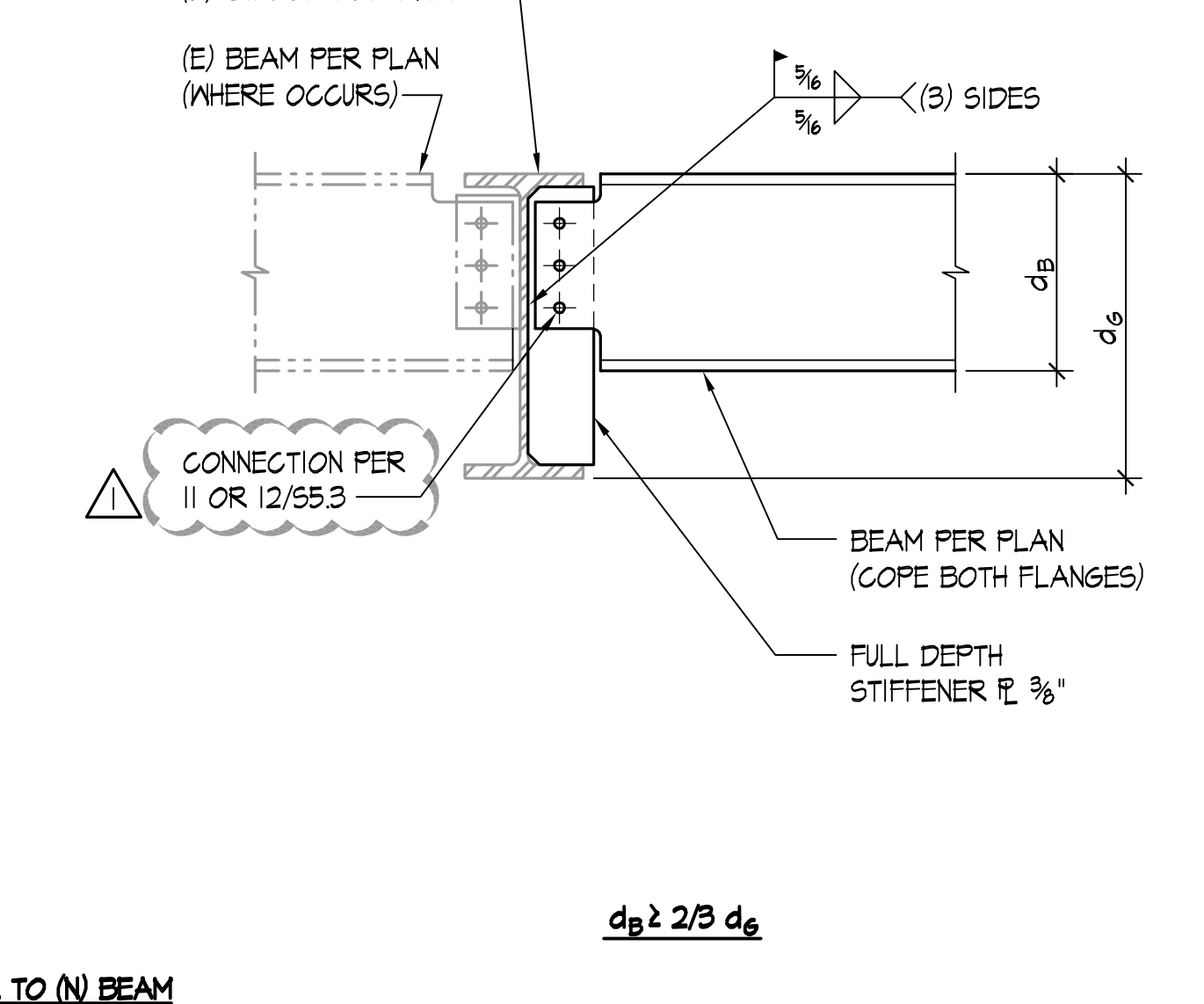
---

---

SCALE: 1"=1'-0"

COLUMN BASE - BEAMS CONNECTED TO EXISTING COLUMN FLANGE SCALE: 1"=1'-0"

SCALE: 1"=1'-0"



SCALE: 1"=1'-0"

(E) W-SHAPE BOTTOM FLANGE BRACING AT PERPENDICULAR FRAMING

NG

---

---

---

---

---

SCALE: NONE

SCALE: NONE

	30
--	----



