

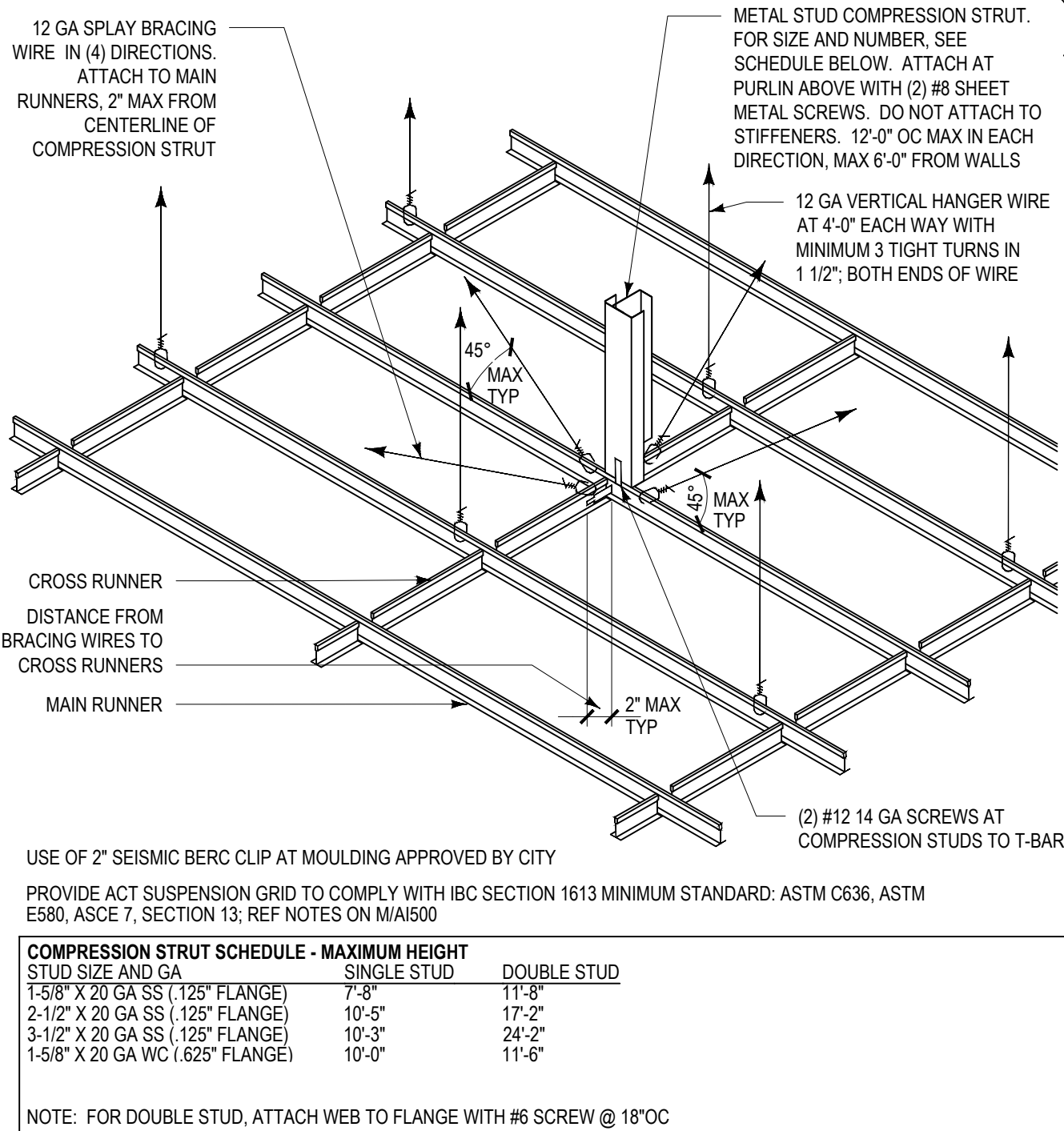
Revision to PRCTI20240469

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.
PRINT in COLOR and to SCALE.

City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE

RayC
08/07/2024
12:50:11 PM



D ACT SEISMIC SUSPENSION

NOT TO SCALE

VERIFY ALL REQUIREMENTS WITH BUILDING MANAGEMENT

GENERAL REQUIREMENTS

REFERENCED SOURCES PER HIERARCHY: IBC (INTERNATIONAL BUILDING CODE), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM C636, C638, E580, M880), AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7), SECTION 13) AND CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION (CISCA).

PARTITIONS THAT ARE TIED TO THE CEILING AND ALL PARTITIONS GREATER THAN 6' IN HEIGHT SHALL BE Laterally BRACED TO STRUCTURE. BRACING SHALL BE INDEPENDENT OF CEILING SPLAY BRACING SYSTEM, PER ASCE 7, SECTION 13.

ALL MAIN BEAMS TO BE HEAVY DUTY, PER ASTM E580.

CEILINGS LESS THAN OR EQUAL TO 144 SQ FT AND SURROUNDED BY WALLS CONNECTED TO THE STRUCTURE ABOVE ARE EXEMPT FROM SEISMIC REQUIREMENTS, PER ASTM E580.

THESE REQUIREMENTS ARE INTENDED FOR SUSPENDED CEILINGS AND RELATED COMPONENTS IN AREAS THAT REQUIRE RESISTANCE TO THE EFFECTS OF EARTHQUAKE MOTIONS, PER ASTM E580. ALL WIRE TIES ARE TO BE THREE TIGHT TURNS AROUND ITSELF WITHIN THREE INCHES. PROVIDE TWELVE GAUGE HANGER WIRE SPACED 4" OC, PER ASTM C636, ITEM 2.3.4. CHANGES IN CEILING PLANES WILL REQUIRE POSITIVE BRACINGS, PER ASTM E580.

LATERAL FORCE BRACING

CEILINGS CONSTRUCTED OF SCREW OR NAIL ATTACHED GWB ON ONE LEVEL THAT ARE SURROUNDED BY AND CONNECTED TO WALLS OR SOFFITS THAT ARE Laterally BRACED TO THE STRUCTURE ABOVE ARE EXEMPT FROM SEISMIC REQUIREMENTS, PER ASCE 7, SECTION 13.

CEILING AREAS OF 1000 SQ FT OR LESS SHALL BE EXEMPT FROM LATERAL FORCE REQUIREMENTS, PER ASTM E580.

LATERAL FORCE BRACING IS THE USE OF VERTICAL STRUTS (COMPRESSION POSTS) AND SPLAY WIRES.

LATERAL FORCE BRACING SHALL BE 12' OC MAX AND BEGIN NO FARTHER THAN 6' FROM WALLS, PER ASTM E580.

SEISMIC SPLAY WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL DESIGN LOAD WITH A SAFETY FACTOR OF 2 WHICHEVER IS GREATER, PER CISCA ZONES 3-4.

POWDER ACTUATED FASTENERS (PAFs) WHEN USED FOR SEISMIC APPLICATIONS AS PART OF THE PRESCRIPTIVE PATH IN SEISMIC DESIGN CATEGORIES D, E, F SHALL HAVE AN ICC-ETL APPROVAL FOR SEISMIC APPLICATIONS AND SHALL REQUIRE SPECIAL INSPECTION IRRESPECTIVE OF THE TYPE OF OCCUPANCY CATEGORY IN WHICH THE STRUCTURE RESIDES. PAF ANCHORS FOR KICKER WIRES ARE EXEMPT FROM THIS REQUIREMENT.

SPLAY WIRES SHALL BE (4) 12 GAUGE ATTACHED TO THE MAIN BEAM. WIRES ARE ARRAYED 90° FROM EACH OTHER AND AT AN ANGLE NOT TO EXCEED 45° FROM THE PLANE OF THE CEILING, PER ASTM E580.

CEILINGS WITH FLEUMINS LESS THAN 12" TO STRUCTURE ARE NOT REQUIRED TO HAVE LATERAL FORCE BRACING.

VERTICAL STRUTS MAY BE EMT CONDUIT, METAL STUDS OR PROPRIETARY COMPRESSION POSTS.

VERTICAL STRUTS MUST BE POSITIVELY ATTACHED TO SUSPENSION SYSTEMS AND THE STRUCTURE ABOVE, PER ASTM E580.

WALL MOLDINGS

WALL MOLDINGS (PERIMETER CLOSURE ANGLES) ARE REQUIRED TO HAVE A HORIZONTAL FLANGE 2" WIDE. ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE WALL MOLDING. THE OTHER END SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND BE FREE TO SLIDE, PER ASTM E580.

WHERE SUBSTANTIATING DOCUMENTATION HAS BEEN PROVIDED TO THE LOCAL JURISDICTION, BERC-2 CLIPS MAY BE USED TO SATISFY THE REQUIREMENTS FOR THE 2" CLOSURE ANGLE.

THE GRID SHALL BE ATTACHED AT TWO ADJACENT WALLS (POP RIVETS OR APPROVED METHOD). SOFFITS EXTENDING TO A POINT AT LEAST LEVEL WITH THE BOTTOM PLANE OF THE GRID AND INDEPENDENTLY SUPPORTED AND Laterally BRACED TO THE STRUCTURE ABOVE, ARE DEEMED TO BE EQUIVALENT TO WALLS, PER ASTM E580.

SPREADER BARS

TERMINAL ENDS OF MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER OR HAVE SOME OTHER APPROVED MEANS TO PREVENT THEIR SPREADING. STABILIZER BARS, CROSS TEES OR OTHER MEANS TO PREVENT SPREADING SHALL OCCUR WITHIN 8" OF EACH WALL, PER ASTM E580.

SPREADER BARS ARE NOT REQUIRED AT PERIMETERS WHERE RUNNERS ARE ATTACHED DIRECTLY TO CLOSURE ANGLES.

SPREADER BARS ARE NOT REQUIRED IF A 90° INTERSECTING CROSS MAIN IS WITHIN 8" OF PERIMETER WALL.

WHERE SUBSTANTIATING DOCUMENTATION HAS BEEN PROVIDED TO THE LOCAL JURISDICTION, BERC-2 CLIPS MAY BE USED TO SATISFY THE REQUIREMENTS FOR THE SPREADER BARS.

HANGER (SUSPENSION) WIRES

HANGER AND PERIMETER WIRES MUST BE PLUMB WITHIN 1 IN 8 UNLESS COUNTER SLOPING WIRES ARE PROVIDED, PER ASTM C636.

HANGER WIRES SHALL BE 12 GAUGE AND SPACED 4' OC OR 10 GAUGE SPACE 5' OC, PER ASTM C636.

ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION, SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS, PER CISCA ZONES 3-4.

POWDER DRIVEN FASTENERS ARE AN APPROVED METHOD OF ATTACHMENT FOR HANGER WIRE WITH THE MAINTENANCE OF ALL OTHER REQUIREMENTS.

TERMINAL ENDS OF EACH MAIN BEAM AND CROSS TEE MUST BE SUPPORTED WITHIN 8" OF EACH WALL WITH A PERIMETER WIRE, PER ASTM E580.

WIRE SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. A TRAPEZE OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION. TRAPEZE SUSPENSIONS SHALL BE SIZED TO RESIST THE DEAD LOAD AND LATERAL FORCES APPROPRIATE FOR THE SEISMIC CATEGORY, PER ASTM E580.

ELECTRICAL FIXTURES

LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE (1) 12 GAUGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. THIS WIRE MAY BE SLACK, PER ASTM E580.

LIGHT FIXTURES WEIGHING MORE THAN 10 POUNDS AND LESS THAN 56 POUNDS SHALL HAVE (2) 12 GAUGE WIRES ATTACHED AT OPPOSING CORNERS OF THE LIGHT FIXTURE, TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK, PER ASTM E580.

LIGHT FIXTURES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS, PER ASTM E580.

PENDANT MOUNTED FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT, PER ASTM E580.

TANDEM FIXTURES MAY UTILIZE COMMON WIRES.

MECHANICAL SERVICES

TERMINALS OR SERVICES WEIGHING LESS THAN 20 POUNDS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR TO CROSS RUNNERS THAT HAVE THE SAME CARRYING CAPACITY AS THE MAIN RUNNERS, PER ASTM E580 5.4.1.

TERMINALS OR SERVICES WEIGHING 20 POUNDS BUT NOT MORE THAN 56 POUNDS MUST HAVE, IN ADDITION TO 5.4.1, (2) 12 GAUGE WIRES CONNECTING THEM TO THE CEILING SYSTEM HANGERS OR THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK, PER ASTM E580.

TERMINALS OR SERVICES WEIGHING MORE THAN 56 POUNDS MUST BE SUPPORTED DIRECTLY FORM THE STRUCTURE ABOVE BY APPROVED HANGERS, PER ASCE 7, SECTION 13.

SEISMIC SEPARATION JOINTS

FOR CEILING AREAS EXCEEDING 2500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT WALL PARTITION THAT BREAKS THE CEILING SHALL BE PROVIDED UNLESS ANALYSES ARE PERFORMED OF THE CEILING BRACING SYSTEM, CLOSURE ANGLES AND PENETRATIONS TO PROVIDE SUFFICIENT CLEARANCE, PER ASCE 7, SECTION 13.

THE AMOUNT OF FREE MOVEMENT (GAP) SHALL BE A MINIMUM OF 3/4".

IN LIEU OF SEISMIC SEPARATION JOINTS, THE CEILING MAY BE DIVIDED INTO AREAS OF LESS THAN 2,500 SF BY THE USE OF PARTITIONS OR SOFFITS AS FOLLOWS: PARTITIONS SHALL EXTEND A MINIMUM OF 6" ABOVE THE LEVEL OF THE PLANE OF THE GRID AND SHALL BE INDEPENDENTLY BRACED TO THE STRUCTURE ABOVE. SOFFITS SHALL EXTEND TO A POINT AT LEAST LEVEL WITH THE BOTTOM PLANE OF THE GRID AND SHALL BE INDEPENDENTLY SUPPORTED AND Laterally BRACED TO THE STRUCTURE ABOVE, PER ASTM E580.

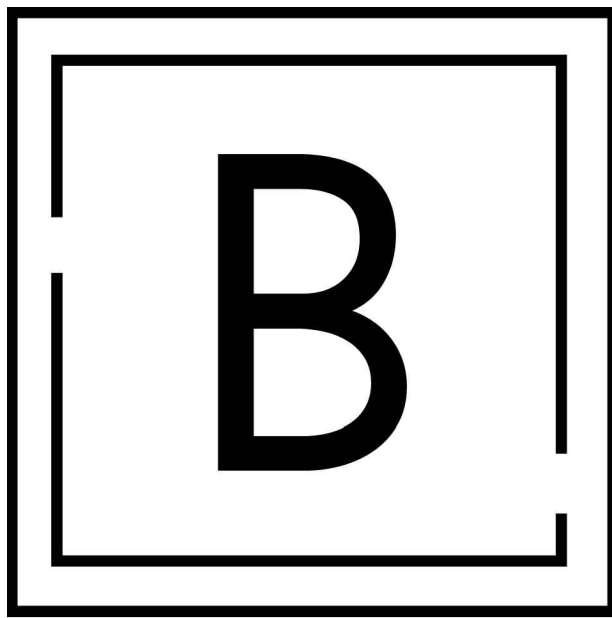
SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE SUBJECT TO SPECIAL INSPECTION REQUIREMENTS.

SPRINKLERS

FOR CEILINGS WITHOUT RIGID BRACING, SPRINKLER HEAD PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS. FLEXIBLE HEAD DESIGN THAT CAN ACCOMMODATE 1" FREE MOVEMENT SHALL BE PERMITTED AS AN ALTERNATE, PER ASTM E580.

Q ACT SEISMIC BRACING NOTES



BURGESS DESIGN
INTERIORS • ARCHITECTURE

1200 5th Ave Suite 400 Seattle WA | 206.587.7120



Tenant:

PROLOGIS PUYALLUP 1

MAKE READY

PUYALLUP 1

1601 INDUSTRIAL PARK #100

PUYALLUP, WA 98371

Professional seal



No.	Issue Description	Date
REVIEW SET		01.06.23
REVIEW SET		01.30.23
REVIEW SET		02.17.23
REVIEW SET		02.27.23
PERMIT SET		03.10.23
CD SET		03.17.23
CITY CORRECTION		05.19.23
CITY CORRECTION		03.22.24
FIELD UPDATE/CORRECTION		07.31.24

City Electronic Stamp Location

CLIENT APPROVAL DATE

City Electronic Stamp Location

Drawn by: MH Project Manager: SH

Project No: 22.0243.00

DETAILS

Original drawing is 36" x 48". Scale entries accordingly reduced.

AI500