## GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-02 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS & WORKMANSHIP FOR NEW WORK SHALL CONFORM TO 2003 INTERNATIONAL BUILDING CODE (IBC).

STRUCTURAL SCOPE OF WORK

THE STRUCTURAL DESIGN SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO THE FOLLOWING:

- ACCOMMODATING AND MODIFYING THE PRE-EXISTING VERTTICAL LOAD PATH AT THE 3rd AND 4th FLOOR INTERIOR WOOD STUD BEARING WALLS.
- RELOCATION AND INCORPORATION OF STAIR AND SHAFT AREAS.
- ADDITION OF A MEZZANINE FLOOR AREA ABOVE THE COMMERCE BASE LEVEL. THE PRE-EXISTING MEZZANINES AT THE PROXIMITY OF THIS LEVEL ARE REMOVED.
- ADDITION OF ROOF MECHANICAL EQUIPMENT STRUCTURAL SUPPORT.
- INDICATED TIES AND ANCHORS ATTACHED TO THE EXISTING BRICK AND CONCRETE WALLS ARE VOLUNTARY IMPROVEMENTS OR ACCOMMODATE LOCAL VERTICAL LOAD PATH MODIFICATIONS.
- INDICATED USAGE OF PLYWOOD SHEATHING ON WALLS IS FOR THE PURPOSE OF LOCAL RENOVATIONS AT SHAFT AREAS AND FOR THE SEISMIC STABILITY OF OF THE COMMERCE MEZZANINE.
- MAINTAIN THE PRE-EXISTING VERTICAL AND LATERAL LOAD PATH STRENGTH AND STIFFNESS OF THE EXISTING BUILDING.

THE STRUCTURAL SCOPE OF WORK FOR THE DESIGN OF THIS PROJECT DOES NOT INCLUDE SEISMIC UPGRADE TO THE BUILDING.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS, WALL CONFIGURATIONS. INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

## DESIGN CRITERIA

VERTICAL LOADS

| AREA | DESIGN DEAD LOAD | LIVE LOAD (1) | PARTITION LOAD | CONCENTRATED LOADS |
|---|---|---|---|---|
| ROOF | | 25 PSF | | |
| OFFICE | | 50 PSF | 20 PSF | 2,000# |
| RETAIL/RESTAURANT | | 100 PSF | | |
| RESIDENTIAL | | 40 PSF | 5 PSF | |
| STAIRS | | 100 PSF | | 300# |

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.9.

FOUNDATION DESIGN CRITERIA

SOIL BEARING PRESSURE: 4000 PSF (ASSUMED)

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (F'c=2000 PSI). AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS. PILE SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTIONS 1808 & 1810.

## CONCRETE

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT, MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C-33

CEMENT: CEMENT SHALL CONFORM TO ASTM-150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI-318, CHAPTER 5. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER.

| ITEM | DESIGN f'c (PSI) | MAX. W/C RATIO | MIN. (2) FLYASH (PCY) | MAX. AGGREGATE SIZE (IN) | NOTES | MIN. CEMENTITOUS (1) MATERIAL (SACKS/YARD) |
|---|---|---|---|---|---|---|
| FOOTINGS & WALLS | 3000 @ 28 DAYS | 0.50 | -- | 3/4 | 3 | 5 |
| SLAB ON GRADE | 4000 @ 28 DAYS | 0.45 | 100 | 3/4 | 3 | 5-1/2 |

CONCRETE MIX NOTES:

1. TOTAL CEMENTITOUS MATERIAL IS THE SUM OF ALL CEMENT PLUS FLYASH.
2. AT THE CONTRACTORS OPTION FLYASH MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL.
3. FIBROUS CONCRETE REINFORCEMENT SHALL BE "FIBERMESH" MANUFACTURED BY SI CONCRETE SYSTEMS OR PRE-APPROVED EQUAL AND SHALL CONFORM TO ASTM C-1116 TYPE III 4.1.3, PERFORMANCE LEVEL 1, AND SHALL BE 100 PERCENT VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT. DOSAGE SHALL FOLLOW MANUFACTURER'S RECOMMENDATION BUT NOT LESS THAN 1.5 LB/CU. YD.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF ENGINEER.

EMBEDDED ITEMS

EMBEDDED CONDUIT IS NOT PERMITTED IN SLAB EXCEPT WHERE SPECIFICALLY SHOWN. WHERE ALLOWED IT SHALL BE PLACED AND REINFORCED PER THE TYPICAL CONCRETE DETAILS. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH OR WEATHER SHALL BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 555" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 GRADE B WHEN TESTED AT A FLUID CONSISTENCY PER CRD- C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. NO GROUTING SHALL BE DONE BELOW 40° F. PREPARE THE EXISTING CONCRETE SURFACES TO PREVENT PREMATURE LOSE OF WATER FROM THE GROUT THAT WOULD AFFECT PROPER CURING.

EPOXY GROUT: MASTER BUILDERS "PASTE LPL", OR HILTI "HY-150", OR SIMPSON "S.E.T.", OR COVERT OPERATIONS "CIA-GEL 7000", OR PRE-APPROVED EQUAL. TWO PART LOW SAG EPOXY. GROUT MAY CONTAIN QUARTZ SAND AGGREGATE AS PROPORTIONED BY THE MANUFACTURER. USE EQUIPMENT WHICH WILL ACCURATELY MIX AND DISPENSE THE COMPONENTS. HOLE SHALL BE DRY AND CLEANED WITH WIRE BRUSH AND PRESSURIZED AIR JUST PRIOR TO INSTALLING GROUT. THE REBAR OR ROD SHALL BE CLEAN AND INSTALLED SLOWLY, AND SHALL BE ROTATED AS IT IS PUSHED INTO THE HOLE. COLD WEATHER GROUTING SHALL BE DONE WITH PROPER GROUT FORMULA. FIRST STAGES OF THE GROUTING OPERATION SHALL BE INSPECTED BY AN AGENT AS RECOMMENDED BY THE OWNER.

## REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. DETAIL, FABRICATE AND PLACE PER ACI 315 AND ACI 318. LAP SPLICES SHALL BE 48 BAR DIAMETERS UNLESS NOTED OTHERWISE. PROVIDE CRONER BARS AT ALL HORIZONTAL BARS IN FOOTING AND WALLS.

WELDED WIRE FABRIC REINFORCEMENT. SHALL CONFORM TO ASTM A-82 AND A-185. LAP ONE FULL MESH ON SIDES AND ENDS.

## STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, JUNE 1, 1989 INCLUDING SUPPLEMENT NO. 1, DECEMBER 17, 2001 AND THE AISC CODE OF STANDARD PRACTICE, MARCH 2000.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI)

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI)

STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (Fy =35 KSI)

STEEL STRUCTURAL TUBING: ASTM A500, GRADE B, (Fy =46 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36, CLASS 2A

## WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D-1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO/AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

ELECTRODES: USE E70 ELECTRODES.

WELDED CONNECTIONS INSPECTION:

ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.

## GENERAL REQUIREMENTS

EPOXY GROUTED ANCHORS: "ALL-THREAD" - ASTM A36 (FY = 36 KSI)

EXPANSION ANCHORS: "KWIKBOLT II" BY HILTI, INC., OR "POWER-BOLT" BY POWERS/RAWL FASTENING, INC., OR PRE-APPROVED EQUAL. EMBED BOLT INTO CONCRETE OR MASONRY 8 BOLT DIAMETERS MINIMUM, UNLESS NOTED OTHERWISE. INSTALL ANCHOR PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.

## CARPENTRY:

NAILS: CONNECTION DESIGNS ARE BASED ON "COMMON WIRE" OR "HOT DIPPED GALVANIZED NAILS.

WOOD SHEATHING (STRUCTURAL): **SHEATHING ON ROOF SURFACES SHALL BE PLYWOOD ONLY.** SHEATHING ON FLOOR AND WALLS SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB). PLYWOOD SHEATHING SHALL BE 5-PLY MINIMUM WHERE INDICATED AS 3/4" OR THICKER. WOOD SHEATHING SHALL BE "STRUCTURAL I" CONFORMING TO PS1-95 AND/OR PS2-92. ALL PANELS SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY. SPAN RATING SHALL BE PROVIDED AS FOLLOWS: ROOF FRAMING AT 32"O.C. (48/24); ROOF FRAMING AT 24"O.C. (32/16); WALLS (32/16); FLOORS (20"O.C.) ALL WOOD SHEATHED WALLS SHALL BE BLOCKED AT ALL PANEL EDGES UNLESS OTHERWISE NOTED.

GLUE-LAMINATED MEMBERS: CONFORM TO ANSI/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR FOR SIMPLE SPANS AND 24F-V8 DOUGLAS FIR FOR CONTINUOUS AND CANTILEVERED SPANS (FB=2400 PSI, FV=240 PSI, E=1.8X10^6 PSI). PROVIDE EXTERIOR GLUE AND PREMIUM APPEARANCE GRADE. ALL MEMBERS TO HAVE AITC OR APA-EWS STAMP. CAMBER AS SHOWN ON STRUCTURAL DRAWINGS.

FRAMING LUMBER:
STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSC CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)
1. 6x BEAMS AND HEADERS: "DOUG FIR-LARCH" NO. 1 (Fb=1350 PSI, Fv=170 PSI)
2. 2x TO 4x JOISTS, PURLINS AND HEADERS: "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fv=180 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fv=150 PSI)
3. 6x POSTS AND COLUMNS: "DOUG FIR-LARCH" NO. 1 (Fc=1000 PSI)
4. STUD WALLS: "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI)

FRAMING LUMBER (MANUFACTURED): SHALL BE MANUFACTURED BY TRUS JOIST CORPORATION, OR PRE-APPROVED EQUAL.

| | | |
|---|---|---|
| MICROLAM LVL: | Fb = 2600 PSI | E = 1800 KSI |
| PARALLAM PSL: | Fb = 2900 PSI | E = 2000 KSI |
| TIMBERSTRAND LSL: | Fb = 2250 PSI | E = 1500 KSI |

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER 2003 IBC TABLE 2304.9.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. PRESSURE-TREAT ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3x OR 4x PLATES SHOULD BE TREATED WITH A 20% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3"x3"x1/4" PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.9.10, 2308.9.11, AND 2308.10.4.2 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION.

merrittarch
Architecture
Urban design
Planning
Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T. 253.383.5300
F. 253.383.5600
e. merritt@merrittarch.com

ARCHITECTURAL RESOURCES GROUP
Architects, Planners & Conservation, Inc.
Pier 9, The Embarcadero . San Francisco, California
415-421-1680 fax 415-421-0127

PCS
Structural *Solutions*
811 First Avenue, Suite 510
Seattle, Washington 98104
tel: 206.292.5076
950 Pacific Avenue, Suite 1100
Tacoma, Washington 98402
tel: 253.383.2797

755 BROADWAY
BUILDING

REHABILITATION OF EXISTING STRUCTURE

755 BROADWAY
TACOMA, WA 98401

Parcel No. 2007050140

JAMES H. COLLINS
STATE OF WASHINGTON
20282
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES: 11/5/ 07

| | |
|---|---|
| Merritt Project No. | 07005 |
| ARG Project No. | 07057 |
| Date: | July 16, 2007 |

△ 7/16/07

CONSTRUCTION DOCUMENTS
ISSUED FOR CONSTRUCTION

GENERAL NOTES

S1.0

FRAMING CONNECTORS: SHALL HAVE ICC APPROVAL AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS.

LAG SCREWS: SHALL BE OF A DIAMETER INDICATED ON DRAWINGS WITH A MINIMUM OF 8x DIA. EMBEDMENT IN SUPPORTING MEMBER UNLESS NOTED OTHERWISE. CLEARANCE HOLE FOR THE SHANK SHALL BE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE UNTHREADED PORTION OF THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW.

I-JOISTS: SHALL BE MANUFACTURED BY TRUS JOIST CORPORATION, OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. MEMBERS SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON. THE ENTIRE I-JOIST ASSEMBLY SHALL BE AS APPROVED BY CURRENT ICC-ES REPORT. MEMBERS SHALL BE DESIGNED TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLANS AND DETAILS. THE TRUSS ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS PLACEMENT PLANS AND TRUSS DESIGN DRAWINGS. I-JOISTS SHALL BE PROVIDED TO COMPLETE THE ROOF AND/OR FLOOR FRAMING FROM THE SHEATHING TO THE SUPPORTING MEMBERS BELOW. MEMBER DESIGNATIONS ON PLANS ARE FOR TYPICAL UNIFORMLY LOADED CONDITIONS. MANUFACTURER SHALL PROVIDE ADDITIONAL MEMBERS AS REQUIRED TO SUPPORT SPECIAL LOADING CONDITIONS INDICATED ON DRAWINGS. PROVIDE SHOP AND INSTALLATION DRAWINGS AND CALCULATIONS PRODUCED UNDER THE SUPERVISION OF AND BEARING THE STAMP OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. DETAIL DRAWINGS TO INDICATE MEMBER TYPES, SIZE, SPACING, BRIDGING, BLOCKING, CONNECTIONS, ANCHORING, BEARING PLATE AND OTHER PERTINENT DETAILS.

MEMBER DESIGN CALCULATIONS SHALL BE PROVIDED FOR STANDARD LOADING ALONG WITH DESIGN CHECKS FOR SPECIAL LOADING CONDITIONS WHICH INCLUDE FREE BODY DIAGRAMS, LOADING BREAK DOWN, DESCRIPTION OF LOADS (I.E. MECH UNIT, SUSPENDED WALL, ETC.) AND THE RATIONAL FOR LOADING DISTRIBUTION ON MULTIPLE MEMBERS. SUBMITTAL SHALL ALSO PROVIDE ANY DOCUMENTATION NECESSARY TO INTERPRET DATA INDICATED ON CALCULATIONS.

MEMBERS HAVE BEEN DESIGNED TO MEET SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

REFER TO THE FRAMING CONNECTORS SECTION OF THESE GENERAL NOTES FOR REQUIREMENTS PLACED UPON CONNECTOR HARDWARE SPECIFIED BY TRUSS ENGINEER AND/OR PROVIDED BY TRUSS MANUFACTURER.

SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13 AND TRUS-JOIST PUBLICATION "GUIDELINES FOR SPRINKLER SYSTEM INSTALLATION WITH TRUS-JOIST". LOADS HUNG FROM TRUS-JOIST NOT SPECIFICALLY IDENTIFIED ON STRUCTURAL DRAWINGS SHALL NOT EXCEED 30 POUNDS AT ANY ONE POINT, NOR SHALL TOTAL LOADS IN POUNDS ON ANY ONE JOIST EXCEED 8 TIMES THE JOIST SPAN IN FEET, UNLESS DETAILED OTHERWISE ON THE DRAWINGS. ATTACHMENT OF LOADS EXCEEDING 90 POUNDS SHALL BE APPROVED PRIOR TO INSTALLATION. DO NOT NOTCH OR DRILL THRU TRUSS MEMBERS.

SHOP DRAWINGS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

| | STRUCTURAL ENGR. | BLDG. DEPT. |
|---|---|---|
| 1. CONCRETE MIX DESIGNS | X | X |
| 2. REINFORCING STEEL SHOP DRAWINGS | X | |
| 3. STRUCTURAL STEEL | X | X |
| 4. MISCELLANEOUS STEEL | X | X |
| 5. GLU-LAMINATED MEMBERS | X | X |
| 6. WOOD OPEN WEB TRUSSES AND I-JOISTS | X | X |

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

## QUALITY ASSURANCE/SPECIAL INSPECTION:

QUALITY ASSURANCE PLAN: QUALITY ASSURANCE SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1705.2 AND AS NOTED HEREIN.

| STRUCTURAL SYSTEM | VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | COMMENTS | REFERENCES |
|---|---|---|---|---|---|
| SOILS | PRIOR TO PLACEMENT OF PREPARED FILL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT. | | X | SOIL SPECIAL INSPECTION IS NOT REQUIRED WHERE FILL PLACEMENT IS LESS THAN 12 IN. | IBC 1704.7 |
| | DURING FILL PLACEMENT AND COMPACTION OF FILL MATERIAL | X | | | |
| STEEL CONSTRUCTION | MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS | | X | | AISC ASD, SECTION A3.4<br>AISC LRFD SECTION A3.3 |
| | HIGH-STRENGTH BOLTING- BEARING-TYPE CONNECTIONS | | X | | AISC LRFD SECTION M2.5<br>IBC 1704.3.3 |
| | HIGH-STRENGTH BOLTING- SLIP-CRITICAL CONNECTIONS | X | | | AISC LRFD SECTION M2.5<br>IBC 1704.3.3 |
| | STRUCTURAL STEEL WELDING<br>1. COMPLETE AND PARTIAL PENETRATION WELDS<br>2. MULTI-PASS FILLET WELDS<br>3. SINGLE-PASS FILLET WELDS >5/16"<br>4. SINGLE-PASS FILLET WELDS <5/16"<br>5. FLOOR AND ROOF METAL DECKING<br>6. FIELD-INSTALLED WELDED STUDS<br>7. WELDING OF STAIRS AND RAILING SYSTEMS | X<br>X<br>X | <br><br><br>X<br>X<br>X<br>X | SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2 | AWS D1.1 IBC 1704.3.1<br><br><br><br>AWS D1.3 |
| CONCRETE | REINFORCING STEEL AND PLACEMENT | | X | SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS:<br><br>NON-STRUCTURAL SLAB ON GRADE<br><br>CONCRETE FOUNDATION WALLS<br><br>ISOLATED SPREAD FOOTINGS FOR BUILDINGS THREE- STORIES AND LESS<br><br>CONTINUOUS FOOTINGS SUPPORTING WALLS OF THREE-STORIES AND LESS WHERE WALLS ARE LIGHT-FRAME CONSTRUCTION AND F'C=2500 PSI | ACI 318: 3-5,7.1-7.7<br>IBC 1903.5, 1907.1, 1907.7, 1914.4 |
| | BOLTS TO BE INSTALLED IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE | X | | | IBC 1912.5 |
| | VERIFY USE OF REQUIRED DESIGN MIX | | X | | ACI 318, CH4,5.2-5.4<br>IBC 1904,1905.2-1905.4<br>1914.2, 1914.3 |
| | SAMPLING OF FRESH CONCRETE, SLUMP TEST, AIR CONTENT, TEMPERATURE OF CONCRETE AT TIME OF MAKING SPECIMENS | X | | | ASTM C172, C31<br>ACI 318:5.6, 5.8<br>IBC 1905.6, 1914.10 |
| | CONCRETE PLACEMENT FOR PROPER APPLICATION | X | | | ACI 318:5.9, 5.10<br>IBC 1905.9, 1905.10 1914.6, 1914.7, 1914.8 |
| | INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES | | X | | ACI 318:5.11-5.13<br>IBC 1905.11, 1905.13<br>1914.9 |
| | MATERIAL VERIFICATION OF REINFORCEMENT STEEL | | | MANUFACTURER SHALL PROVIDE MILL TEST REPORTS | IBC 1708.3 |
| | ANCHORS TO BE INSTALLED IN HARDENED CONCRETE | X | | | IBC 1912.5 |
| WOOD FRAMING | WOOD PANEL SHEATHING NAILING | | X | | IBC 1707.3 |
| | NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM | | X | | IBC 1707.3 |
| | PREFABRICATED WOOD STRUCTURAL ELEMENTS | | X | SHOP INSPECTION FOR TRUSSES | IBC 1704.6 |
| SUSPENDED CEILINGS | ANCHORAGE AND SEISMIC BRACING | | X | | IBC 1621, 1705.1<br>ASCE 9.6.2.6 |

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1709. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- REVIEW OF TESTING AND INSPECTION REPORTS.
- REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:

- ACKNOWLEDGMENT OF AWARENESS OF REQUIREMENTS OF QUALITY ASSURANCE PLAN.
- ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION AND THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION.
- IDENTIFICATION OF PERSONS EXERCISING SUCH CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.

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Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T: 253.383.5300
F: 253.383.5600
e. merritt@merrittarch.com

ARCHITECTURAL RESOURCES GROUP
Architects, Planners & Conservation, Inc.
Pier 9, The Embarcadero · San Francisco, California
415-421-1680 fax 415-421-0127

PCS Structural Solutions
811 First Avenue, Suite 510
Seattle, Washington 98104
tel: 206.292.5076

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Tacoma, Washington 98402
tel: 253.383.2797

755 BROADWAY
BUILDING

REHABILITATION OF
EXISTING STRUCTURE

755 BROADWAY
TACOMA, WA 98401

Parcel No. 2007050140

JAMES H. COLLINS
STATE OF WASHINGTON
20282
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES: 11/5/07

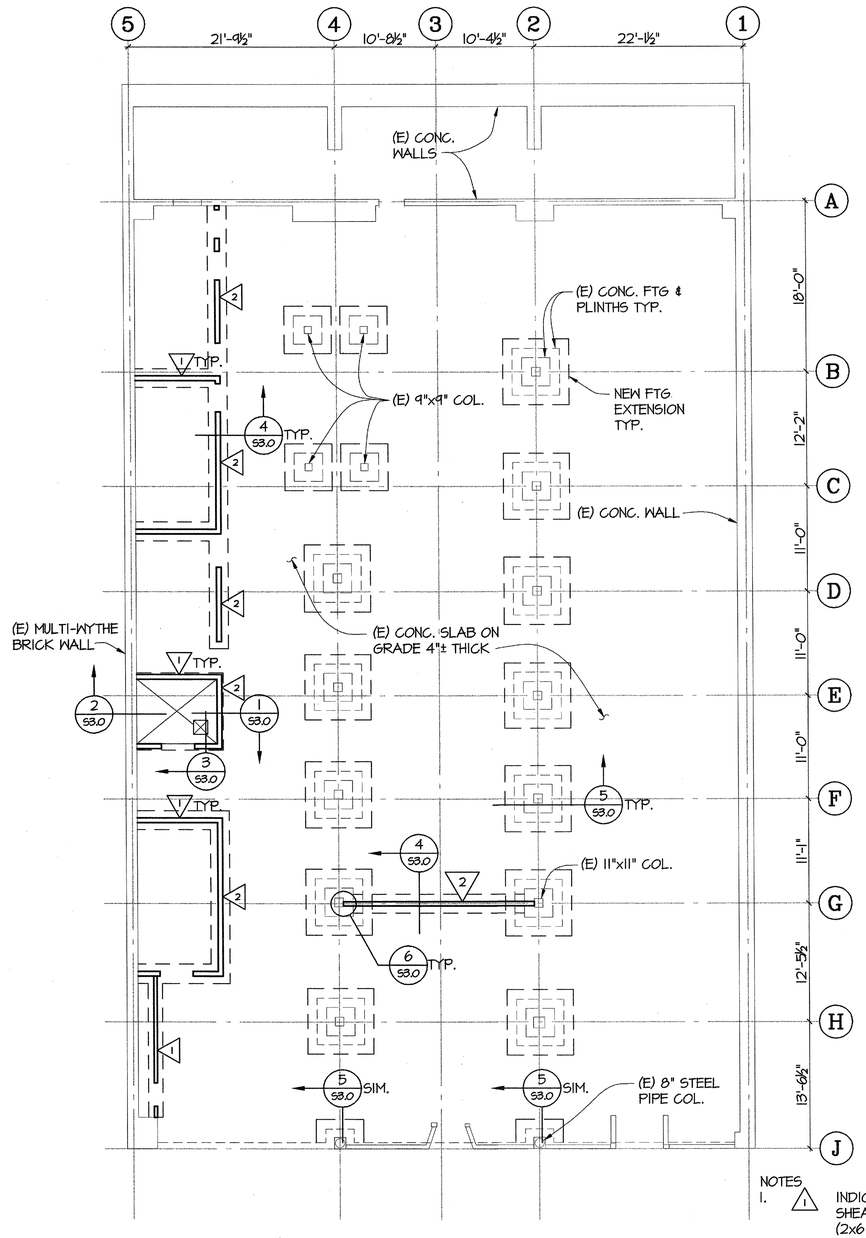
| | |
|---|---|
| Merritt Project No. | 07005 |
| ARG Project No. | 07057 |
| Date: | July 16, 2007 |

△ 7/16/07

CONSTRUCTION DOCUMENTS
ISSUED FOR CONSTRUCTION

GENERAL NOTES

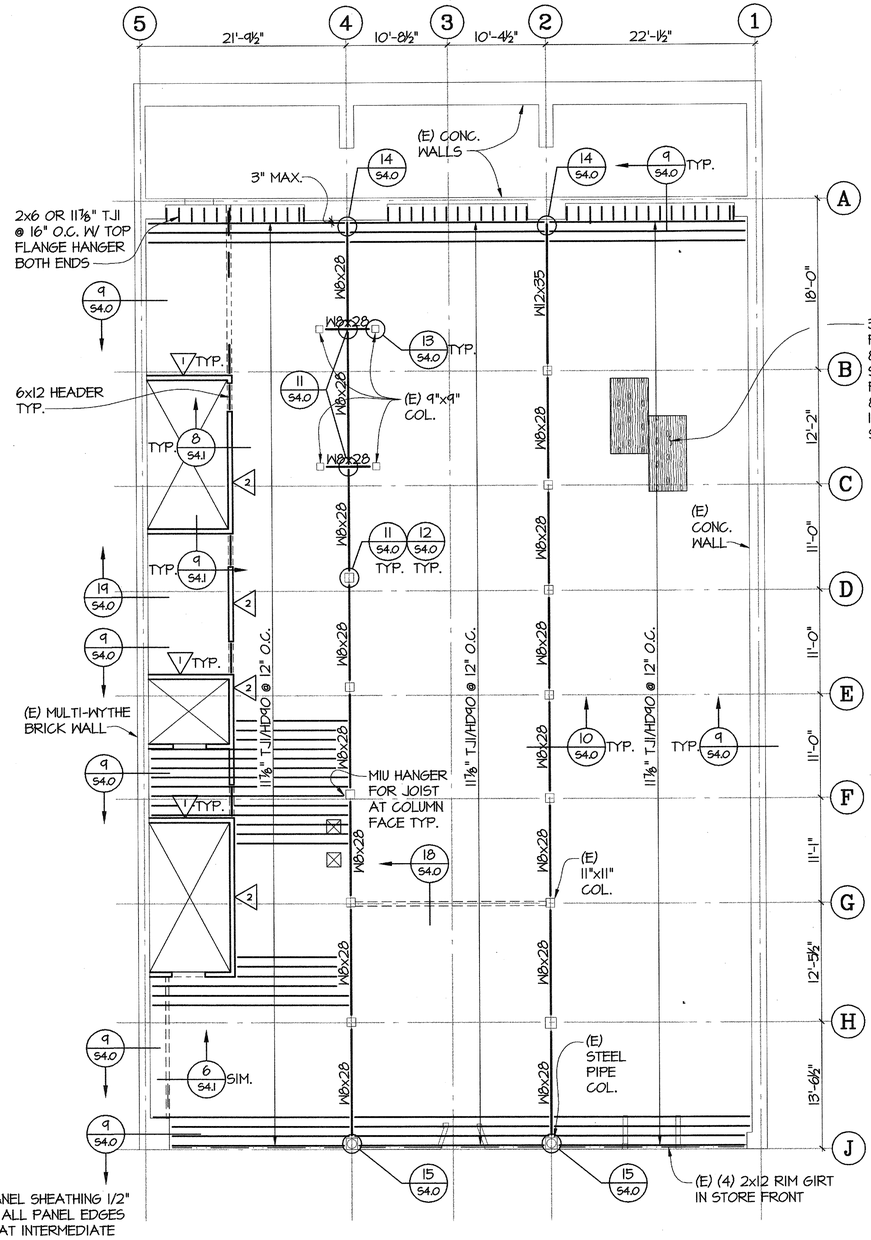
S1.1




## FOUNDATION PLAN

1/8"=1'-0"

1 S2.0




## COMMERCE MEZZANINE FRAMING PLAN

1/8"=1'-0"

2 S2.0

NOTES

1. ⚠1 INDICATES WALLS WITH WOOD PANEL SHEATHING 1/2" SHEATHING WITH 8d @ 6" O.C. AT ALL PANEL EDGES (2x6 BLOCKING) & 8d @ 12" O.C. AT INTERMEDIATE FRAMING.
2. ⚠2 INDICATES WALLS WITH WOOD PANEL SHEATHING 1/2" SHEATHING WITH 8d @ 3" O.C. AT ALL PANEL EDGES (2x6 BLOCKING) & 8d @ 12" O.C. AT INTERMEDIATE FRAMING.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Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T. 253.383.5300
F. 253.383.5600
e. merritt@merrittarch.com

Architectural Resources Group
Architects, Planners & Conservators, Inc.
Pier 9, The Embarcadero . San Francisco, California
415-421-1680 fax 415-421-0127

PCS Structural Solutions
811 First Avenue, Suite 510
Seattle, Washington 98104
tel: 206.292.5076

950 Pacific Avenue, Suite 1100
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tel: 253.383.2797


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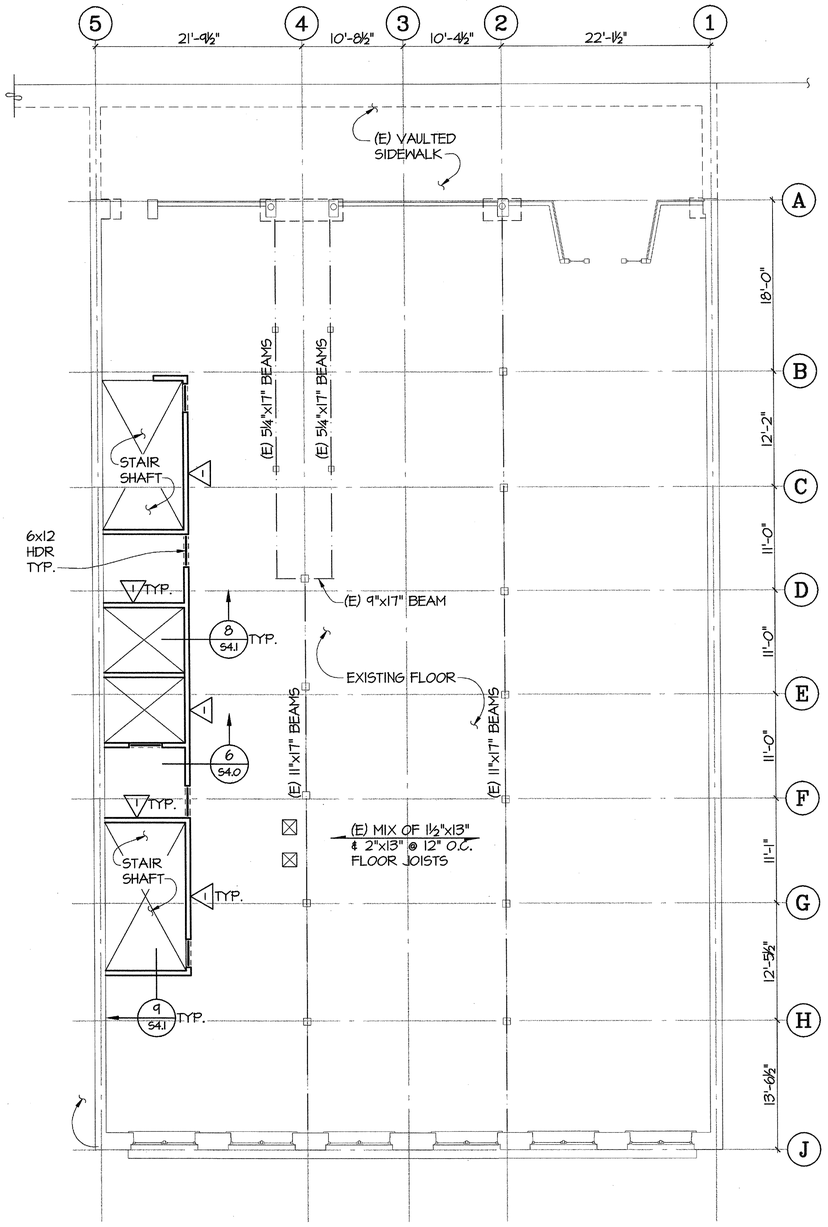
CONSTRUCTION DOCUMENTS
ISSUED FOR CONSTRUCTION

FOUNDATION PLAN

S2.0




## 2nd FLOOR FRAMING PLAN

1/8"=1'-0"

1 / 52.1

NOTES:

1. ⚠1 INDICATES WALLS WITH WOOD PANEL SHEATHING 1/2" SHEATHING WITH 8d @ 6" O.C. AT ALL PANEL EDGES (2x6 BLOCKING) & 8d @ 12" O.C. AT INTERMEDIATE FRAMING.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Urban design
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Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T. 253.383.5300
F. 253.383.5600
e. merritt@merrittarch.com

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Architects, Planners & Conservators, Inc.
Pier 9, The Embarcadero · San Francisco, California
415.421.1680 · fax 415.421.0223

PCS Structural Solutions
811 First Avenue, Suite 510
Seattle, Washington 98104
tel: 206.292.5076

950 Pacific Avenue, Suite 1100
Tacoma, Washington 98402
tel: 253.383.2797


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CONSTRUCTION DOCUMENTS
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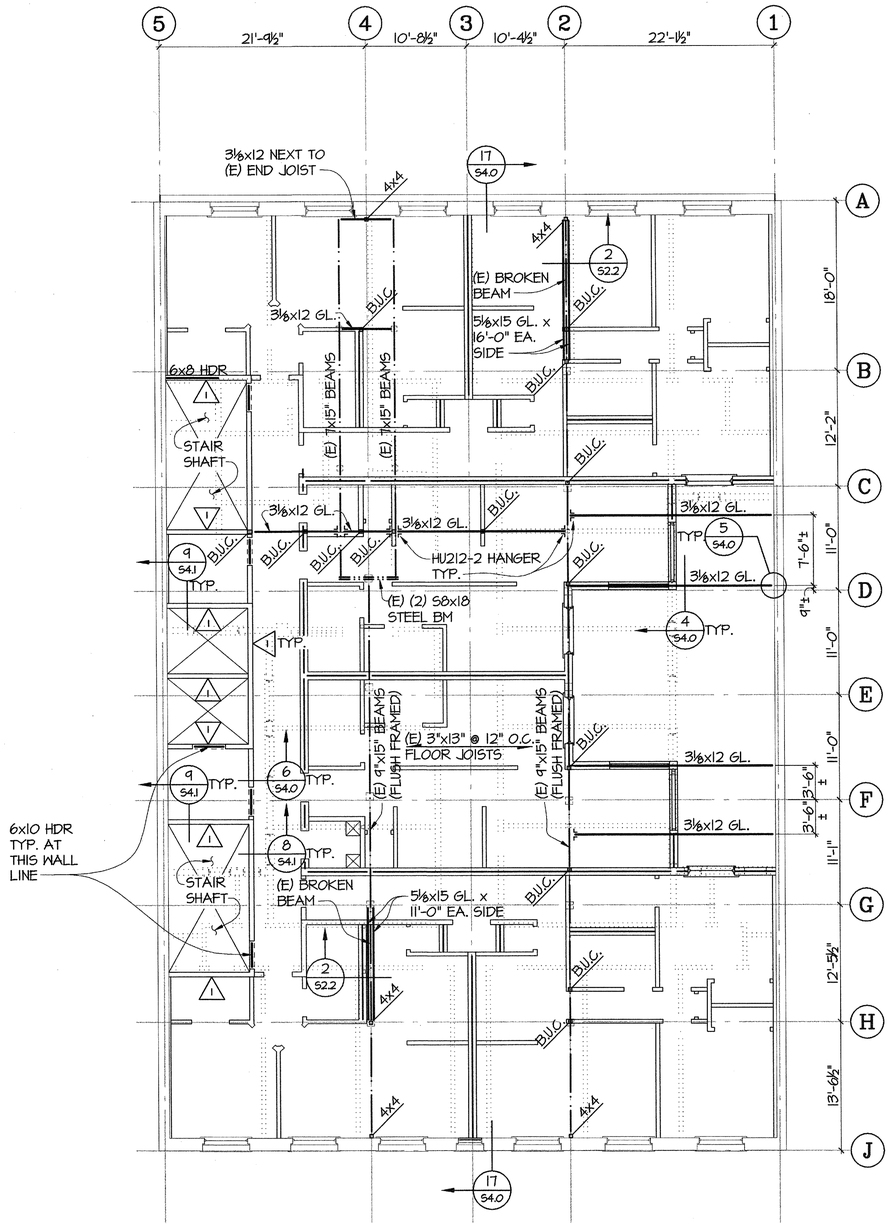
2nd FLOOR FRAMING PLAN

S2.1




LEGEND

ORIGINAL BEARING & NON-BEARING STUD WALLS AT 4TH FLOOR (REMOVED)

NEW BEARING & NON-BEARING STUD WALLS.

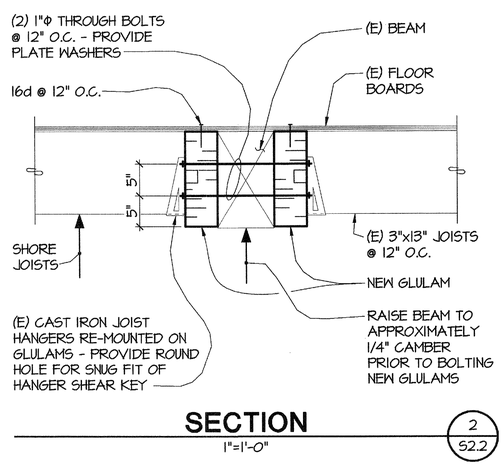
## 3rd FLOOR FRAMING PLAN

1/8"=1'-0"

1 / 52.2

NOTES:

1. INSTALL NEW BEARING WALLS PRIOR TO REMOVING EXISTING BEARING WALLS. PROVIDE SHORING OTHERWISE TO MAINTAIN SUPPORT FOR FRAMING ABOVE.
2. COMMON DOOR & WINDOW HEADER: 4x6 WITH (1) 2x4 BEARING TRIMMER STUD & (2) 2x4 KING STUDS, UNLESS INDICATED OTHERWISE.
3. (1) INDICATES WALLS WITH WOOD PANEL SHEATHING 1/2" SHEATHING WITH 8d @ 6" O.C. AT ALL PANEL EDGES (2x6 BLOCKING) & 8d @ 12" O.C. AT INTERMEDIATE FRAMING.
4. 4x4 B.U.C. COLUMNS INDICATED ARE ABOVE FLOOR, UNLESS NOTED OTHERWISE. B.U.C. INDICATES BUILT-UP STUD COLUMN PER 1/S4.0. PROVIDE MATCHING IN-LINE BLOCKING AT FLOOR JOIST SPACE.




## SECTION

1"=1'-0"

2 / 52.2

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1901 Market
Tacoma, Washington
98402-3107
T. 253.383.5300
F. 253.383.5600
e. merritt@merrittarch.com

Architectural Resources Group
Architects, Planners & Conservators, Inc.
Pier 9, The Embarcadero . San Francisco, California
415.421.1680 fax 415.421.0127

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**755 BROADWAY**
**BUILDING**

REHABILITATION OF EXISTING STRUCTURE

755 BROADWAY
TACOMA, WA 98401

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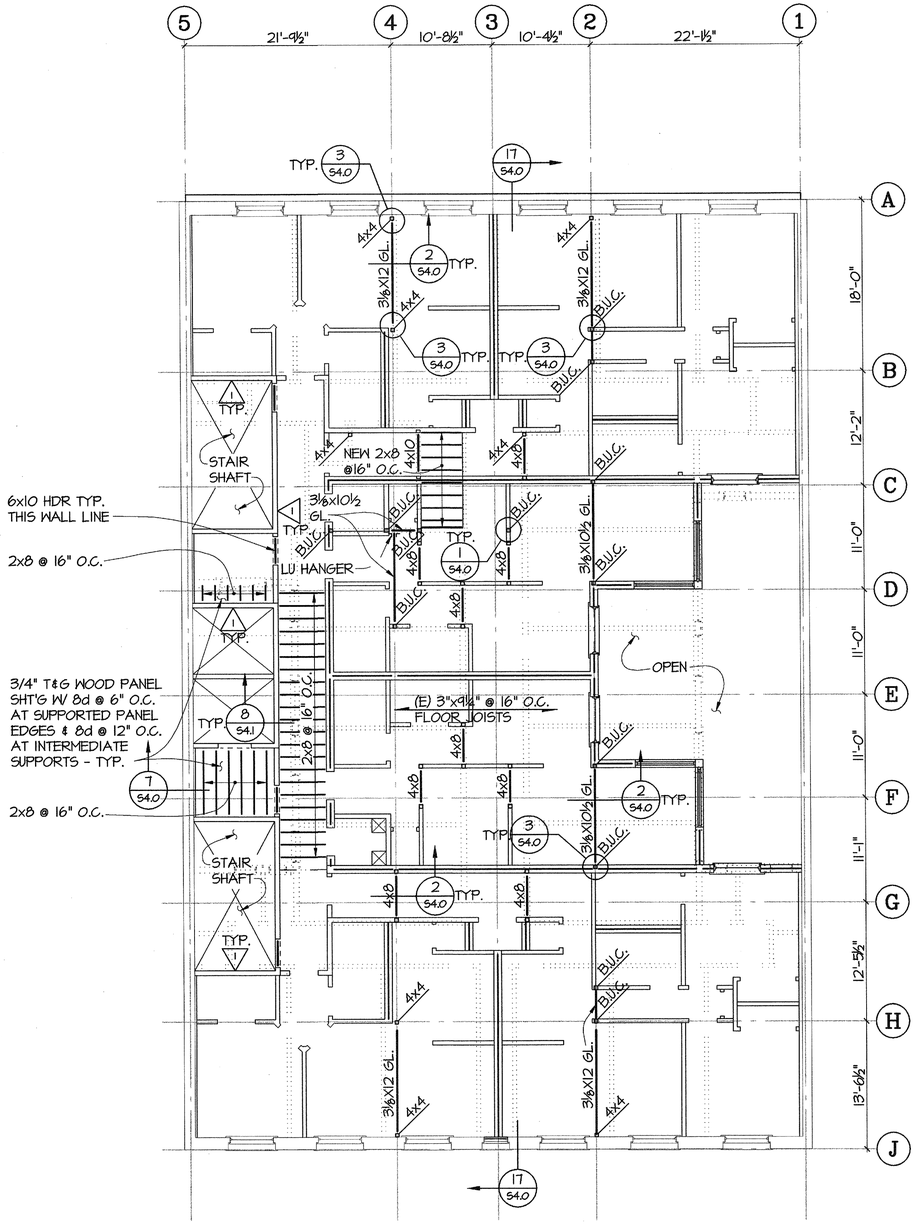
CONSTRUCTION DOCUMENTS
ISSUED FOR CONSTRUCTION

**3rd FLOOR FRAMING PLAN**

**S2.2**




NOTES:

1. INSTALL NEW BEARING WALLS PRIOR TO REMOVING EXISTING BEARING WALLS. PROVIDE SHORING OTHERWISE TO MAINTAIN SUPPORT FOR FRAMING ABOVE.
2. COMMON DOOR HEADER & WINDOW HEADER: (2) 2x6 WITH (1) 2x4 BEARING TRIMMER STUD & (1) 2x4 KING STUDS, UNLESS INDICATED OTHERWISE.
3. ALL NEW WALL AT 3RD & 4TH FLOORS ARE BEARING AND/OR SHEAR WALLS.
4. △1 INDICATES WALLS WITH WOOD PANEL SHEATHING 1/2" SHEATHING WITH 8d @ 6" O.C. AT ALL PANEL EDGES (2x6 BLOCKING) & 8d @ 12" O.C. AT INTERMEDIATE FRAMING.
5. 4x4 B.U.C. COLUMNS INDICATED ARE ABOVE FLOOR, UNLESS NOTED OTHERWISE. B.U.C. INDICATES BUILT-UP STUD COLUMN PER 1/S4.1. PROVIDE MATCHING IN-LINE BLOCKING AT FLOOR JOIST SPACE.

LEGEND

ORIGINAL BEARING & NON-BEARING STUD WALLS AT 4TH FLOOR (REMOVED)
NEW BEARING & NON-BEARING STUD WALLS AT 4TH FLOOR
ORIGINAL ATTIC BEARING WALL BEING RETAINED.

## 4th FLOOR FRAMING PLAN

1/8"=1'-0"

1 / S2.3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Planning

Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T. 253.383.5300
F. 253.383.5600
e. merritt@merrittarch.com

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Architects, Planners in Conservation, Inc.
Pier 9, The Embarcadero . San Francisco, California
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tel: 206.292.5076

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755 BROADWAY BUILDING

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CONSTRUCTION DOCUMENTS
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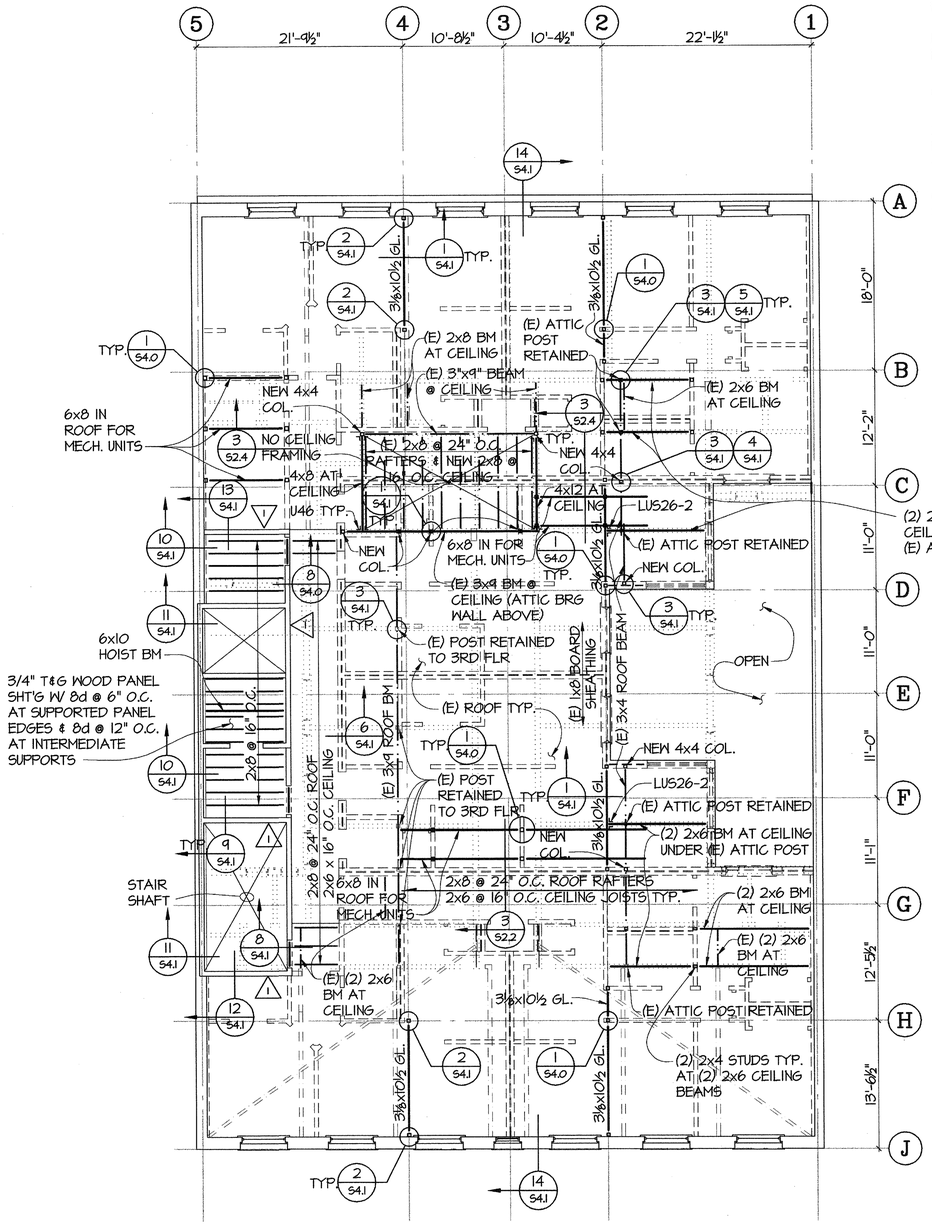
4th FLOOR FRAMING PLAN

S2.3



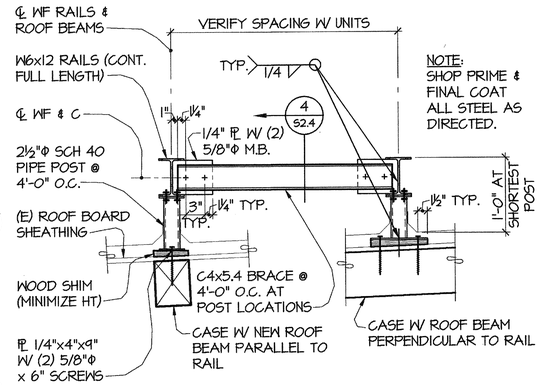

LEGEND

ORIGINAL BEARING & NON-BEARING STUD WALLS AT 4TH FLOOR (REMOVED).
NEW BEARING & NON-BEARING STUD WALLS AT 4TH FLOOR BELOW.
ORIGINAL ATTIC BEARING WALLS BEING RETAINED.

## ROOF AND CEILING FRAMING PLAN

1/8"=1'-0"

1 S2.4

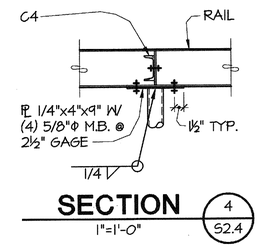



ROOF TOP MECHANICAL UNIT SUPPORT FRAME

## SECTION

1"=1'-0"

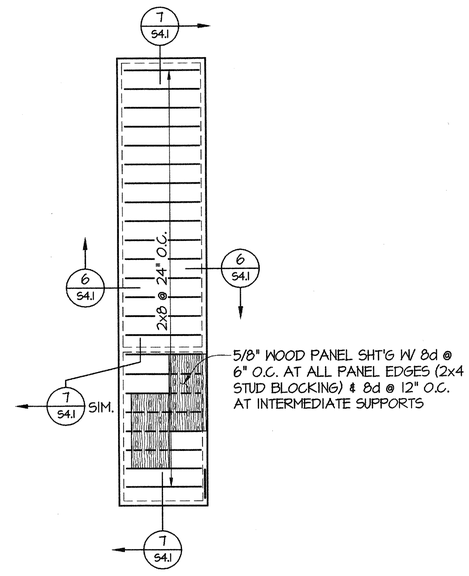
3 S2.4




## SECTION

1"=1'-0"

4 S2.4




NOTES:

1. COMMON HEADERS AT 4TH FLOOR WALLS - SEE S2.3.
2. ⚠1 INDICATES WALLS WITH WOOD PANEL SHEATHING 1/2" SHEATHING WITH 8d @ 6" O.C. AT ALL PANEL EDGES (2x6 BLOCKING) & 8d @ 12" O.C. AT INTERMEDIATE FRAMING.

MECHANICAL PENTHOUSE

## FRAMING PLAN ROOF

1/8"=1'-0"

2 S2.4

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Tacoma, Washington
98402-3107
T. 253.383.5300
F. 253.383.5600
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tel: 206.292.5076
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CONSTRUCTION DOCUMENTS
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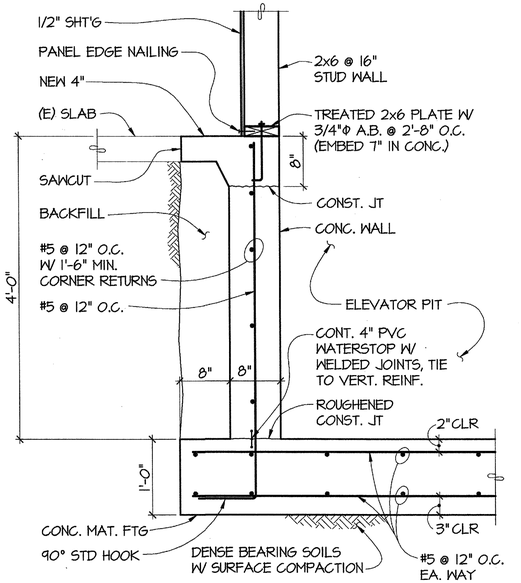
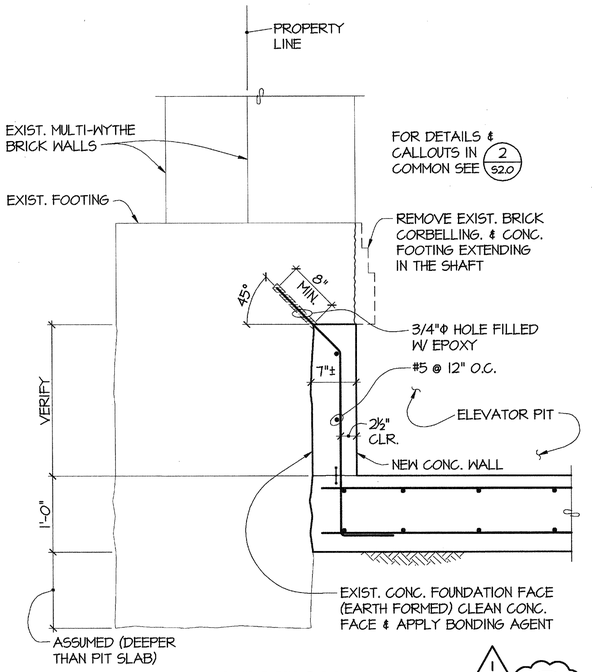
ROOF, CEILING & MECH. FRAMING PLANS

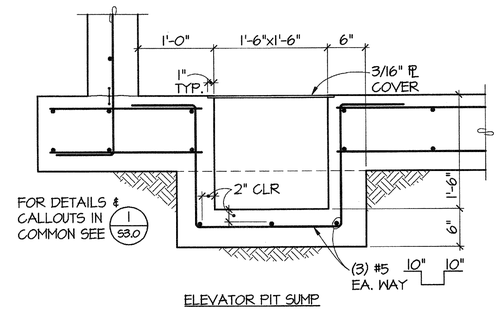
S2.4




**SECTION** 1 / S3.0
1"=1'-0"

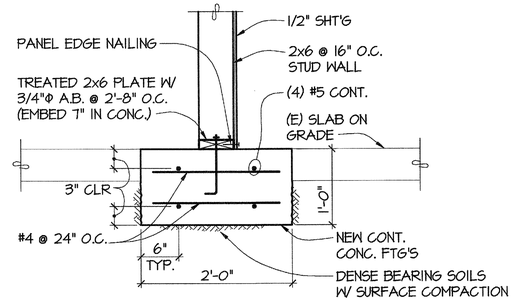



**SECTION** 1 / S3.0 (2)
1"=1'-0"

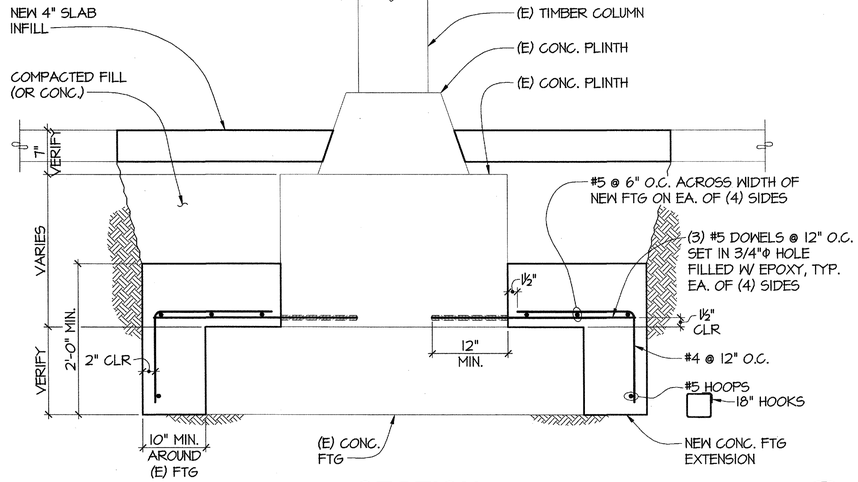



ELEVATOR PIT SUMP

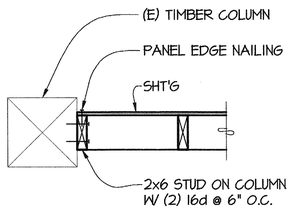
**SECTION** 3 / S3.0
1"=1'-0"




**SECTION** 4 / S3.0
1"=1'-0"




**SECTION** 5 / S3.0
1"=1'-0"




**PLAN DETAIL** 6 / S3.0
1"=1'-0"

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Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T: 253.383.5300
F: 253.383.5600
e. merritt@merrittarch.com

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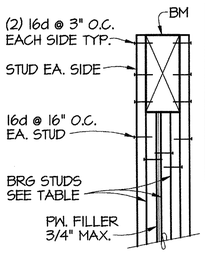
| 1 | 7/16/07 | |

CONSTRUCTION DOCUMENTS
ISSUED FOR CONSTRUCTION

FOUNDATION
DETAILS

S3.0

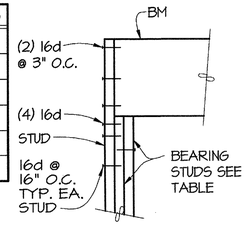



| BEAM SIZE | # OF BRG STUDS |
|---|---|
| 3½" | 2 |
| 5½" | 3 |
| 3⅛" | 2 |
| 5⅛" | 3 |
| 6¾" | 4 |
| 8¾" | 5 |

NOTES:

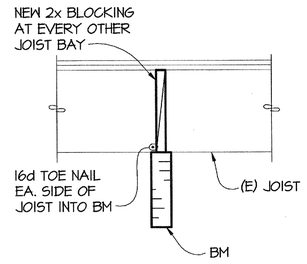
1. BEARING STUDS SHALL BE CONT. TO BEAM, CONC. OR MASONRY WALL BELOW. STUDS MAY BE INTERRUPTED AT FLOORS PROVIDED MATCHING BLOCKING OCCURS

TYPICAL BUILT-UP STUD COLUMN FOR BEAM PERPENDICULAR TO STUD WALL

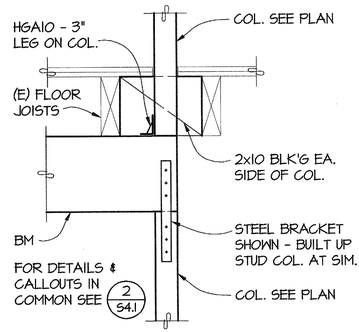



TYPICAL BUILT-UP STUD COLUMN FOR BEAM PARALLEL TO STUD WALL

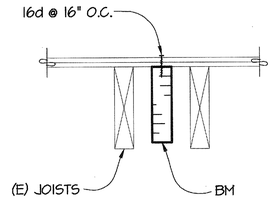
## DETAIL 1 S4.0
NO SCALE



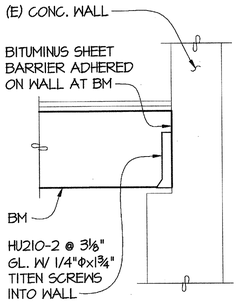

## SECTION 2 S4.0
1"=1'-0"



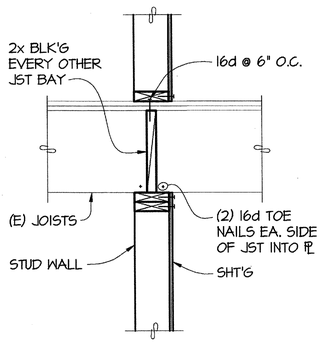

## SECTION 3 S4.0
1"=1'-0"



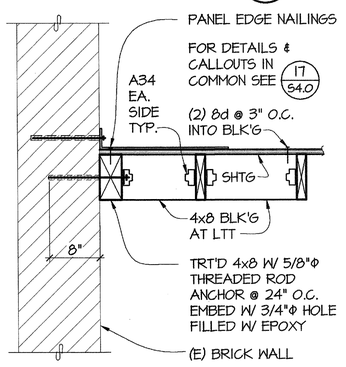

## SECTION 4 S4.0
1"=1'-0"



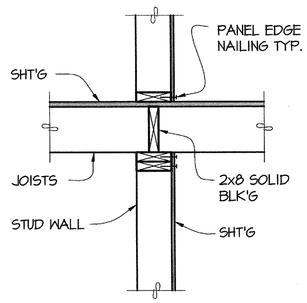

## SECTION 5 S4.0
1"=1'-0"



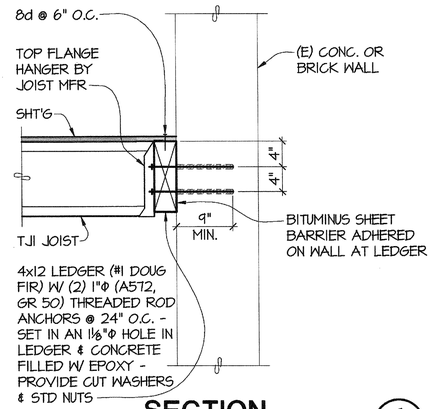

## SECTION 6 S4.0
1"=1'-0"



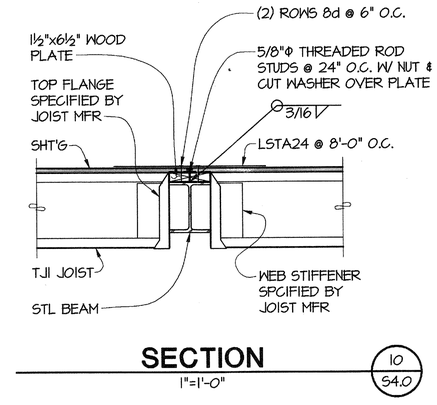

## SECTION 7 S4.0
1"=1'-0"



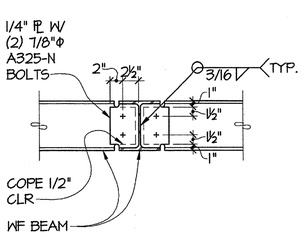

## SECTION 8 S4.0
1"=1'-0"



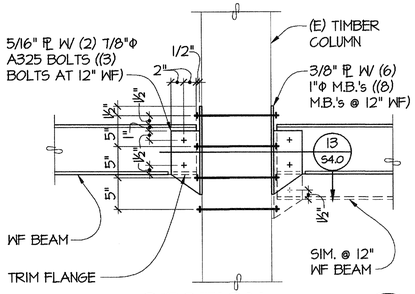

## SECTION 9 S4.0
1"=1'-0"



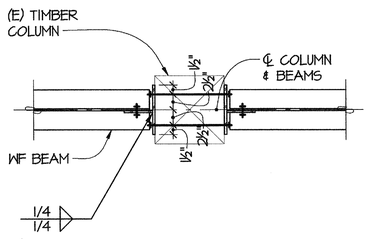

## SECTION 10 S4.0
1"=1'-0"



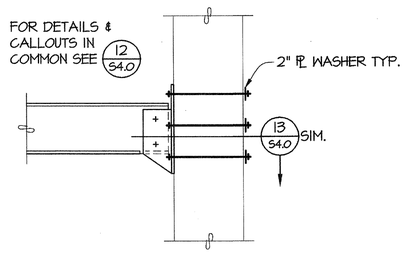

## SECTION 11 S4.0
1"=1'-0"



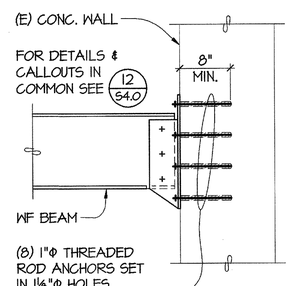

## SECTION 12 S4.0
1"=1'-0"



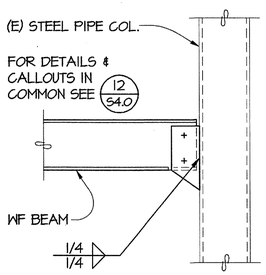

## PLAN DETAIL 13 S4.0
1"=1'-0"



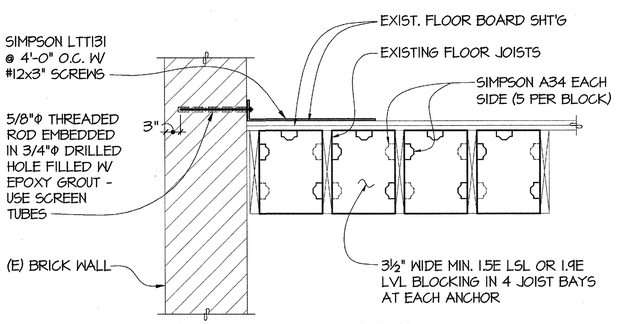

## SECTION 14 S4.0
1"=1'-0"




## SECTION 15 S4.0
1"=1'-0"

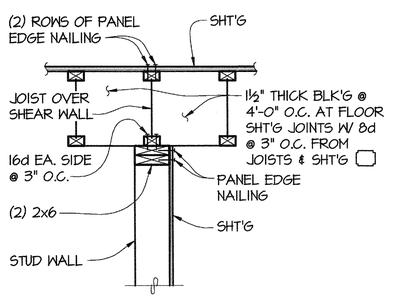



## SECTION 16 S4.0
1"=1'-0"

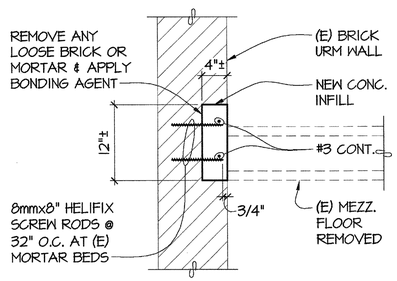



TYPICAL URM BRICK WALL TIE AT FLOOR

## SECTION 17 S4.0
NO SCALE




## SECTION 18 S4.0
1"=1'-0"




## SECTION 19 S4.0
1"=1'-0"


merrittarch
Architecture
Urban design
Planning
Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T. 253.383.5300
F. 253.383.5600
e. merritt@merrittarch.com

Architectural Resources Group
Architects, Planners & Conservators, Inc.
Pier 9, The Embarcadero · San Francisco, California
415.421.6860 fax 415.421.6915

PCS Structural Solutions
811 First Avenue, Suite 510
Seattle, Washington 98104
tel: 206.292.5076

950 Pacific Avenue, Suite 1100
Tacoma, Washington 98402
tel: 253.383.2797


755 BROADWAY
BUILDING

REHABILITATION OF
EXISTING STRUCTURE

755 BROADWAY
TACOMA, WA 98401

Parcel No. 2007050140

JAMES H. COLLINS
STATE OF WASHINGTON
20282
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES: 11/5/ 07

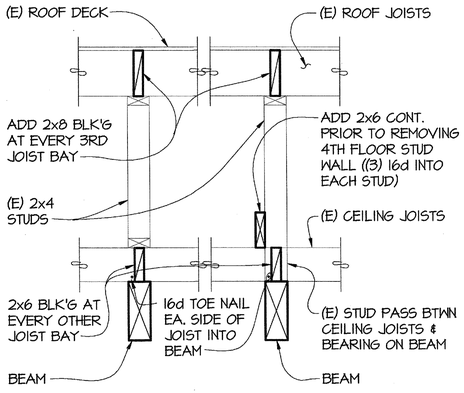
| | |
|---|---|
| Merritt Project No. | 07005 |
| ARG Project No. | 07057 |
| Date: | July 16, 2007 |

⚠ 7/16/07

CONSTRUCTION DOCUMENTS
ISSUED FOR CONSTRUCTION

FRAMING DETAILS

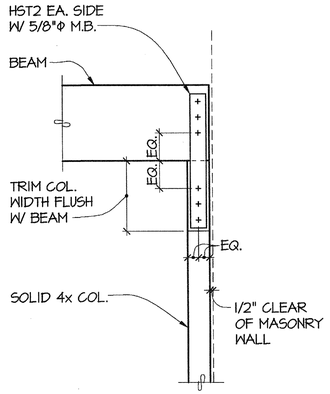
S4.0



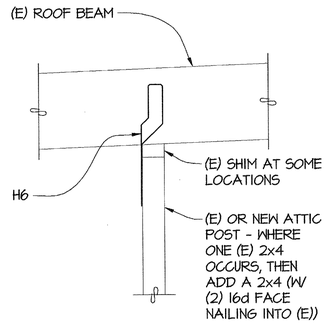

TYPICAL NEW BEAM AT EXISTING ATTIC CRIPPLE WALL WITH SILL PLATE

TYPICAL NEW BEAM AT EXISTING ATTIC CRIPPLE WALL WITHOUT SILL PLATE

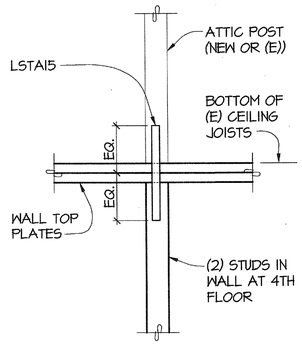
## SECTION 1
1"=1'-0"



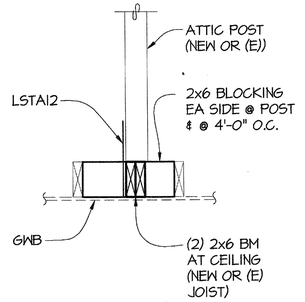

## SECTION 2
1"=1'-0"



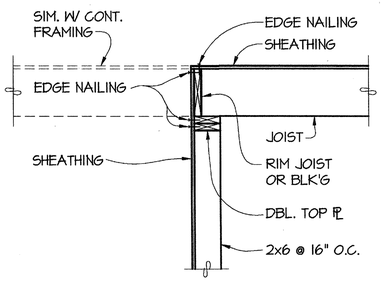

## SECTION 3
1"=1'-0"




## SECTION 4
1"=1'-0"




## SECTION 5
1"=1'-0"




## SECTION 6
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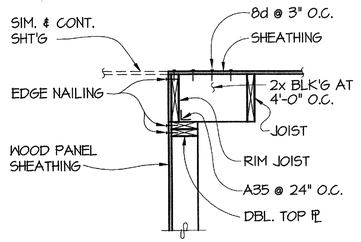


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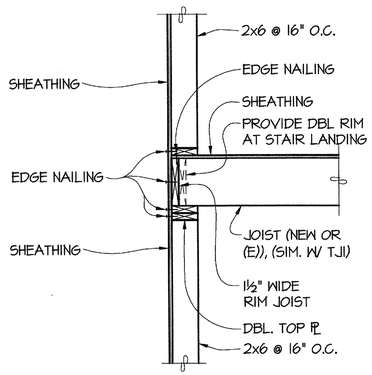


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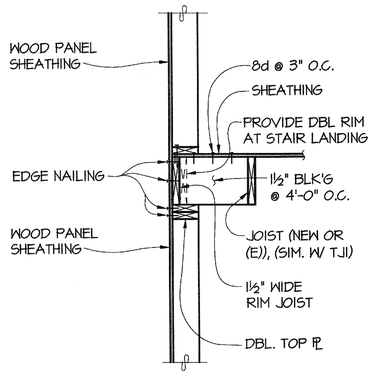


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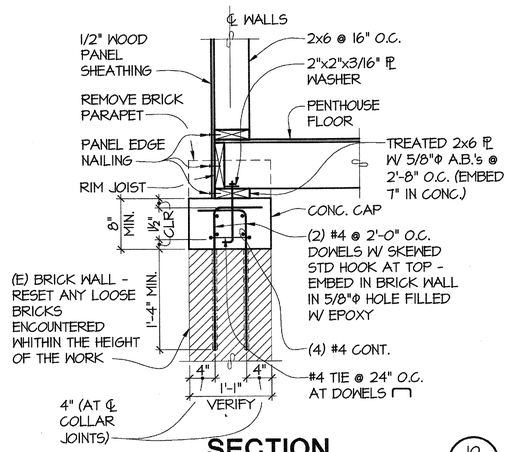


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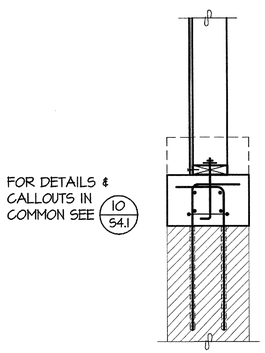


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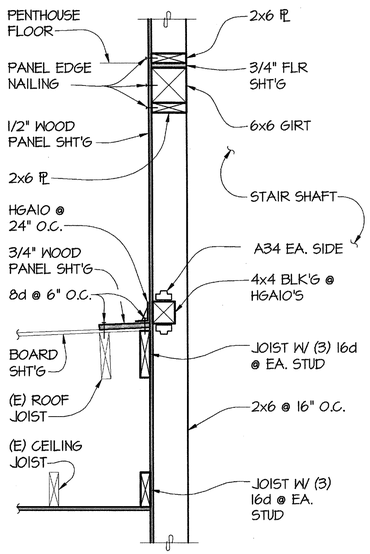


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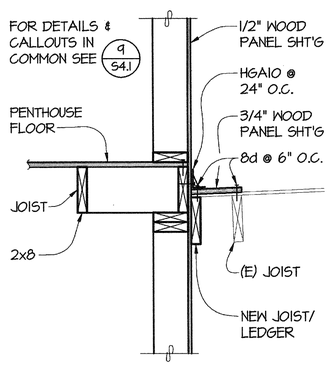


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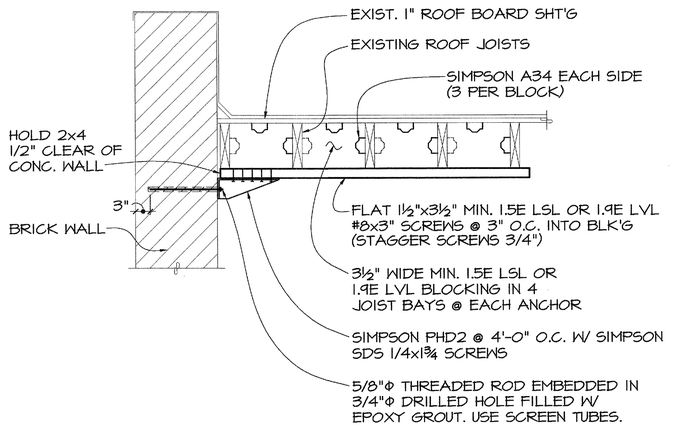
NO SCALE




TYPICAL URM BRICK WALL TIE AT ROOF

## SECTION 14
NO SCALE

merrittarch
Architecture
Urban design
Planning
Merritt Arch pllc
1901 Market
Tacoma, Washington
98402-3107
T: 253.383.5300
F: 253.383.5600
e. merritt@merrittarch.com

Architectural Resources Group
Architects, Planners & Conservators, Inc.
Pier 9, The Embarcadero . San Francisco, California
415.421.1680 fax 415.421.0127

PCS Structural Solutions
811 First Avenue, Suite 510
Seattle, Washington 98104
tel: 206.292.5075

950 Pacific Avenue, Suite 1100
Tacoma, Washington 98402
tel: 253.383.2797

755 BROADWAY
BUILDING

REHABILITATION OF EXISTING STRUCTURE

755 BROADWAY
TACOMA, WA 98401

Parcel No. 2007050140

JAMES H. COLLINS — STATE OF WASHINGTON — 20282 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 11/5/07

| | |
|---|---|
| Merritt Project No. | 07005 |
| ARG Project No. | 07057 |
| Date: | July 16, 2007 |

⚠ 7/16/07

CONSTRUCTION DOCUMENTS
ISSUED FOR CONSTRUCTION

FRAMING DETAILS

S4.1