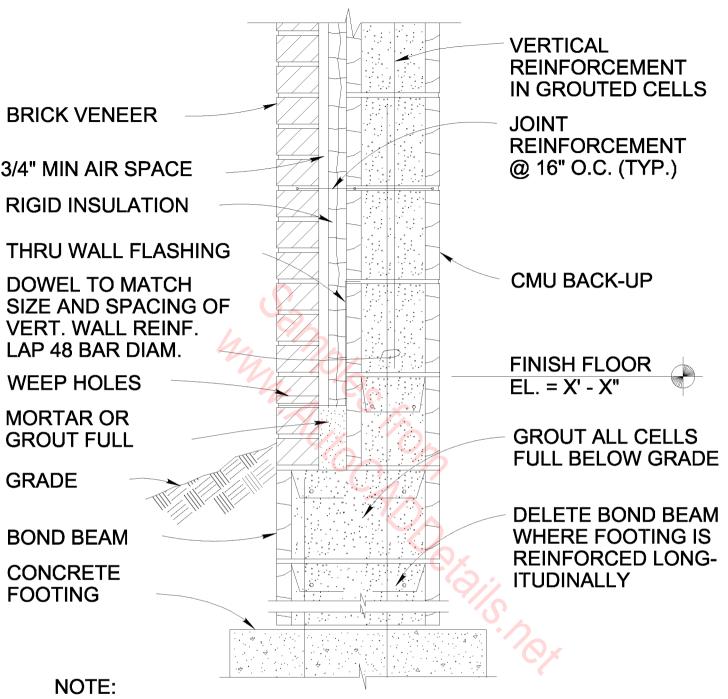


NOTE:

TOP OF DOOR FRAME MUST MATCH COURSING TO PREVENT CUTTING CMU.
OPTIONS ARE: VARYING DOOR FRAME HEAD OR VARYING DOOR HEIGHT.
STARTING COURSING AT OTHER THAN FINISH FLOOR LEVEL
IS NOT RECOMMENDED SINCE INTERIOR MASONRY WALLS PLACED
ON THE FINISHED FLOOR MAY NEED TO COURSE WITH THE OTHER WALLS.

ANCHORED VENEER SECTION AT BASE (CONCRETE FOUND.)

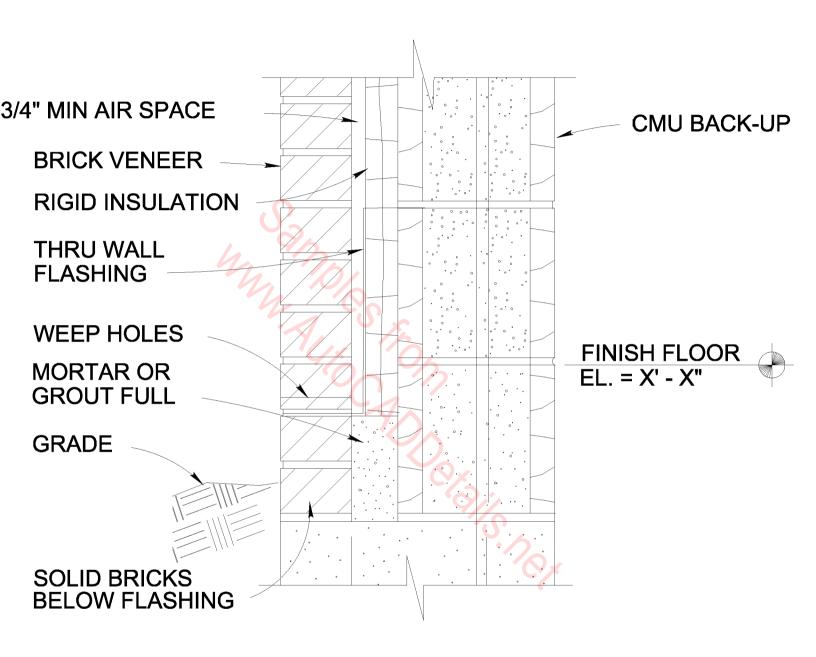
N.T.S.



TOP OF DOOR FRAME MUST MATCH COURSING TO PREVENT CUTTING CMU. OPTIONS ARE: VARYING DOOR FRAME HEAD OR VARYING DOOR HEIGHT. STARTING COURSING AT OTHER THAN FINISH FLOOR LEVEL IS NOT RECOMMENDED SINCE INTERIOR MASONRY WALLS PLACED ON THE FINISHED FLOOR MAY NEED TO COURSE WITH THE OTHER WALLS.

ANCHORED VENEER SECTION AT BASE (CMU FOUNDATION)

N.T.S.



THRU-WALL FLASHING OPTION

N.T.S.

Mun Alix from Sans. Nor

GENERAL STRUCTURAL NOTES:

FOUNDATION AND EARTHWORK:
EARTHWORK SHALL CONFORM TO THE ABOVE MENTIONED SOILS REPORT. MINIMUM DEPTH TO BOTTOM OF FOOTINGS SHALL BE 3'-6" BELOW LOWEST ADJACENT FINISHED RADE FOR EXTERIOR FOOTINGS AND 1'-0" BELOW FINISHED FLOOR FOR INTERIOR FOOTINGS, U.O.N.

SPACING OF CONTROL JOINTS AND CONSTRUCTION JOINTS SHALL BE 20 FEET MAXIMUM IN EACH DIRECTION AND MAXIMUM ASPECT RATIO OF RESULTING PANELS SHALL BE 1.5. TO 1 JOIN JOINTS SHALL BE CONSTRUCTED PER DETAIL ENTITLED "TYPICAL JOINTS IN SLAB", DETAIL 1, SHEET AS

THE TOP 4" BELOW CONCRETE SLABS ON GRADE SHALL CONSIST OF AN ACCRECATE BASE COURSE MEETING THE REQUIREMENTS OF THE SOILS

EXCAVATIONS FOR FOUNDATIONS SHALL BE TO NEAT LINES OF FOOTINGS. ALL LOOSE MATERIAL SHALL BE REMOVED FROM SURFACES TO RECEIVE CONCRETE. ALL FOOTING EXCAVATIONS SHALL BE APPROVED BY THE SOLIS ENGINEER BEFORE CONCRETE IS PLACED, JULIAN.

CONCRETE:

CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301.

SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

MUM STRENGTH: Fc = 250D PSI AT 28 DAYS FOR FOUNDATION Fc = 300D PSI AT 28 DAYS FOR SLABS ON GRADE; DEPUTY SPECIAL INSPECTION NOT REQUIRED BY ENGINEER.

SLUMP: $4^{\circ}\pm1^{\circ}$. NO WATER SHALL BE ADDED ON SITE WHICH MILL INCREASE SLUMP ABOVE 5°. CONDRETE TO BE MIXED PER ASTM C94. MAXIMUM TEMPERATURE IN MIXER: 90 DEGREES F.

PLACEMENT: PER ACI STANDARD 614.

TESTS: 3 CYLINDERS FOR EACH POUR, FOR EACH 150 CU. YOS OR EACH 5000 SQ. FEET OR SURFACE AREA, WHICHEVER IS LESS.

GROUT LINDER COLUMN BASE PLATES, ETC.: HIGH STRENGTH, NON-SHRINK, NON-METALLIC GROUT EQUIVALENT TO MASTERLOW NO. 713. APPUED PER MANUFACTURER'S RECOMMENDATIONS. CEMENT SHALL BE PER ASTM C150, TYPE I, LOW ALKALI.

MIX DESIGNS: SUBMIT TO ARCHITECT FOR REVIEW BY ENGINEER A MINIMUM OF ONE WEEK PRIDR TO FIRST CONCRETE DELIVERY.

MAXIMUM WATER/CEMENT RATIO. (BY WEIGHT)
F'c = 2500 PSI W/c = 0.72
F'c = 3000 PSI W/c = 0.64 AGGREGATE: PER ASTM 033, MAXIMUM 1*

NO ADMIXTURES CONTAINING CHLORIDE SALTS ARE PERMITTED. CONCRETE SHALL NOT BE IN CONTACT WITH ALDMINUM.

REINFORCING STEEL: BARS: INTERMEDIATE GRADE, NEW BILLET PER ASTM SPEC, A615, GRADE 40. ALL REBAR BENDS TO BE MAKE COLD. BAR LAP. CONCRETE: 40 DIA., U.C.N. MASDNRY: 45 BAR DIA., U.C.N. OR 24" MINIMUM, WHICHEVER IS GREATER. STAGGER SPLICES.

CONCRETE STEMS AND WALLS SHALL BE PER DETAIL ENTITLED "TYPICAL REINF. AT CONC. WALLS & FTS.", DETAIL 3, SHEET A3. MASONRY STEMS AND WALLS SHALL BE PER DETAIL ENTITLED "TYPICAL REINF. AT CONC. WALLS & FTS.", DETAIL 3, SHEET A3.

GENERAL STRUCTURAL

01A-5001

LAYOUT OF VERTICAL AND HORZONTAL REINFORCEMENT IN MASONRY WALLS SHALL BE PER DETAL 2. SHEET AJ. DETAILING: PER ACI STANDARD 315

SHOP DRAWINGS: SUBMIT TO ARCHITECT FOR REVIEW BY ENGINEER PRIOR TO FABRICATION.

CONCRETE EXPOSED TO WEATHER AFTER FORMING: #6 AND LARGER...........2" CLEAR. #5 AND SMALLER 1-1/2" CLEAR

REINFORCING IN CONCRETE PLACED AGAINST EARTH WITHOUT FORMS IS TO BE SUPPORTED BY CONCRETE BLOCK, APPROVED NON-METALLIC CHAIRS, OR ANOTHER METHOD APPROVED BY THE ENGINEER. DOWELS: MATCH MASONRY VERTICALS IN SIZE AND SPACING, U.O.N.;

MINIMUL 24" LAP.

REHIFORCH DIASONRY UNITS: PER ASTM SPEC CSO, GRADE M-1.

AGGREGATE SHALL CONFORM TO ASTM SPEC, CS31,

ALLOMABLE DESCON STRENGTH: Fin = 1300 PSI, M-44

LAY BLOCK IN RUNNING BCHO, ULON.

MORTAR: PER ASTM SPEC. C270, TYPE W OR TYPE S. F'o = 1800 PSI AT 28 DAYS.

GROUT: PER ASTM SPEC, C-78 F's - 2000 PSI AT 28 DAYS WITH PEA GRAVEL AGGREGATE AND NOT LESS THAN A 6-1/2" SACK MX. SLUMP 6"4" SUBBRIT DESSION MX. TO ARCHITECT FOR REVIEW BY EXIDENCER A MINIMUM OF ONE WEEK PRIOR TO FIRST GROUT DELIVERY. NO FLY ASH (PCZ)CLANI) PERMITTED IN MORTAR BO GROUT.

GROUT ALL BOND BEAMS, LINTELS AND REINFORCED CELLS. GROUT UNREINFORCED CELLS AS NOTED ON THE DRAWINGS. MASONRY BELOW GRADE SHALL HAVE ALL CELLS GROUTED SOUR.

REINFORCE AND GROUT AROUND ALL EMBEDDED ITEMS PER STRUCTURAL DRAWINGS. ALL EMBEDDED STRUCTURAL ITEMS SHALL BE POSITIVELY STRUCTURAL TEMS SHALL BE POSITIVELY STALL BE EMBEDDED IN A REINFORCED GROUTED CELL.

HOLD GROUT 1/2" BELOW TOP OF VERTICALLY REINFORCED CELL TO FORM A "GROUT KEY" WITH LIFT ABOVE.

ROD GROUT IMMEDIATELY AFTER PLACING AND AGAIN 5 MINUTES LATER.
MAXIMUM VERTICAL LIFT: 8'-0" PROMDE CLEANOUTS FOR ALL LIFTS
EXCEEDING 4'-0".

HORIZONTAL GROUT STOP IN BOND BEAMS SHALL BE METAL LATH OR FIBERDLASS; PAPER NOT PERMITTED

USE HORIZONTAL JOINT RENFORCEMENT, TWO #9 GA. WIRE, TRUSS OR LADDER DESIGN, AT 15" C.C. BETWEEN BOND BEAMS.

VERTICAL PROPROCEDENT: AS NOTED IN THE DRAWGS AND A MINISTER OF THE VERTICAL PROPROCEDENT AS NOTED IN THE DRAWGS AND A MINISTER OF THE VERTICAL CONTRIBUTION OF ALL CONTRIBUTIONS, MALE INTERSECTIONS, OF THE VERTICAL CONTRIBUTION OF ALL CONTRIBUTIONS, WALL OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALC) SECTION OF THE VERTICAL PROPRIETS AND ALL CONTRIBUTIONS (ALL CONTRIBUTIONS AND ALL CONTRIBUTIONS AND AL

CONTROL JOINTS: PER DETAIL ENTITLED "TYP, MASONRY CONTROL JOINT DETAIL", DETAIL 2, SHEET A3, AT LOCATIONS NOTED ON THE DRAWINGS. CONTROL JOINT MATERIAL PER SPECIFICATIONS.

UNTELS: AS NOTED ON DRAWINGS. SUBMIT SHOP DRAWINGS OF STEEL UNTELS TO ARCHITECT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. USE O'EN.—ENDED BLOCKS FOR ALL MASDINY UNTELS.

STRUCTURAL STEEL:
ROLLED SHAPES AND PLATES. PER ASTM SPEC. A572, Fy = 50 PSI.
PIPES PER ASTM SPEC. A501. Fy = 36 PSI.
STRUCTURAL TUBING: PER ASTM A500, GRADE B, Fy = 46 PSI. FABRICATION AND ERECTION: PER AISC MANUAL OF STEEL CONSTRUCTION. DETAILING: PER AISC STRUCTURAL STEEL DETAILING.

SHOP DRAWINGS: SUBMIT TO ARCHITECT FOR REVIEW BY ENGINEER PRICE TO FABRICATION.

BOLTS: ASTM SPEC, A307,

HOLES: 1/16" GREATER THAN BOLT SIZE, EXCEPT FOR ANCHOR BOLTS WE ARE 3/16" GREATER THAN BOLT SIZE, LOUN.
WELDING: PER STAMMAROS OF THE AMERICAN WELDING SOCIETY.
ELECTROCES AWS A 5.1. E-70 SERES. SHOP AND FILLD WELDING SHALL
BE PERFORMED BY PROVERLY CERTIFIED WELDENS EXCEPT FOR ANCHOR BOLTS WHICH

PAINT: PAINT ALL STRUCTURAL STEEL WITH ONE SHOP COAT PRIMER OVER CLEAN METAL.

COPES, BLOCK AND CUTS: ALL REENTRANT CORNERS SHALL BE SHAPED, NOTCH-FREE, TO A RADIUS OF AT LEAST $1/2^{\circ}$.

THE STATE OF THE S

LEDGERS AND OTHER STRUCTURAL TIMBER: D.F. GRADE #2, U.O.N.; LEDGERS OR ANY MEMBER IN CONTACT WITH CONCRETE OR MASOMRY SHALL RE PRESERVATIVE TREATER.

STUDS: D.F. GRADE #3.

RAFTERS AND JOISTS (2X'S): D.F. GRADE #2, F'b = 1450 PSI (REP), F'v = 95 PSI, E=1, 7x*0 PSI,

BEAMS (3X's, 4X's AND 6X's): D.F. GRADE #1, U.O.N. ALL BEAMS TO BE SUPPORTED WITH FULL WIDTH BEARING.

PREFABRICATED TRUSS JOISTS/MOOD TRUSSES SHALL BE SIZED AND BETALED TO TIT THE DMENSOWS AND LOADS NIDGATED ON THE PLANS. ALL DESONS SHALL BE IN ACCORDANCE WITH ALLOWABLE THE PLANS SHALL DESONS SHALL BE IN ACCORDANCE WITH ALLOWABLE BUILDING CODE. COMPLETE DESON CALCULATIONS SHALL BE PURISHED TO THE ENGINEER POR CALCULATIONS SHALL BE SHALL BE SEALED BY AN ENGINEER REGISTERED IN THE STATE OF COLORADO.

ALL LIGHT GAUGE METAL CONNECTORS TO BE FULLY WAILED AND BOLTED SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO FABRICATION.

INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS MINIMUM AREA OF PLYMOOD SHEET SHALL BE 8 SQUARE FEET, WITH A MINIMUM DIMENSION OF 24

ROOF SHEATHING: 5/8" APA RATED, EXPOSURE 1, 32/16. WALL SHEATHING: 1/2" APA RATED, STRUCTURAL I, 24/0. ALL WALL PLYWOOD PANEL EDGES TO BE BACKED BY 2x BLOCKING FROM ROOF LINE TO FINISHED FLOOR.

INTERIOR FLOOR SHEATHING: 3/4" MINIMUM, T & C. APA RATED, EXPOSURE 1, 40/20.

BALCONY SHEATHING: 3/4" MINIMUM APA, T & C. RATED, EXPOSURE 1, 40/20.

ALL PLYWOOD SHALL CONFORM TO U.S. DEPT. OF COMMERCE PRODUCT STANDARD PS-1.

PRODUCT STANDARD PS-1.

MISTALLATOR: ALL WALL SYNDOD PANEL EDGES SMALL BE BACKED WITH 2-HIGS HORNAL PRAMING (BLOCKS).

BACKED WITH 2-HIGS HORNAL PRAMING (BLOCKS).

LAVI HORIZONTAL PLYWOOD SHETS OW FLOORS AND HORIZON WITH LONG DIMENSIONS PERPENDICULAR TO JOSTS AS DETAILED. PLYWOOD OF WALLS MAY BE INSTALLED HORIZONTALLY OR WETRICALLY. ALL VERICAL JUSTS SHALL COCAR OVER STUDS.

ALL PLYWOOD, LIGHT FRAMING, DIMENSIONAL LUNGER AND DILU-LAWS SHALL BE STAMPED WITH THE APPROPRIATE (DENTIFYING MARK ON AN APPROVED INSPECTION AGENCY, AND/OR LUNGER GRADING AGENCY. STEEL HANGERS, SADDLES & SEATS: SIMPSON OF APPROVED EQUAL SECURED PER MANUFACTURER'S RECOMMENDATIONS AND AS NOTED ON THE DRAWINGS. BOLTS AND BOLT HOLES: 3/4" DIA, IN 13/16" DIA, HOLES, U.O.N.

OPENINGS FOR ROOF PENETRATIONS. U.O.N. SHALL BE LOCATED BETWEEN JOISTS OR OTHER STRUCTURAL MEMBERS. BLOCK JOISTS AT MID-SPAN AND AT POINTS OF BEARING.

OTHER NAILING: PER NAILING SCHEDULE BELOW.

OTHER NALLING: PER NALLING SCHEDULE BELGW.

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT
THE STRUCTURES DURING CONSTRUCTION, SUCH MEASURES SHALL INCLUDE,
BUT NOT LIMITED TO, BRADING AND SHORING FOR LOADS IMPOSED DURING
CONSTRUCTION, ETC.

OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE CHOOSES AN OPTION AND SHALL COORDINATE ALL DETAILS.

THE COST OF ADDITIONAL DESIGN OR REMEW WORK BY THE ARCHITECT/ ENGINEER DUE TO SELECTION OF AN OPTION BY THE CONTRACTOR, OR DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION BY THE CONTRACTOR, SHALL BE BORNE BY THE CONTRACTOR

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER

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GENERAL STRUCTURAL NOTES:

TSIGN DATA:

OLEO CLAD

DEAD CLAD

FOUNDATION AND EARTHWORK: EARTHWORK SHALL CONFORM TO THE ABOVE MENTIO

MINIMUM DEPTH TO BOTTOM OF FOOTINGS SHALL BE 3'-6" BELOW LOWEST ADJACENT PINSHED GRADE FOR EXTERIOR FOOTINGS AND 1'-0" BELOW FINISHED FLOOR FOR INTERIOR FOOTINGS, U.O.N.

SPACING OF CONTROL JOINTS AND CONSTRUCTION JOINTS SHALL BE 20 FEET MAXIMUM IN EACH DIRECTION AND MAXIMUM ASPECT RATIO OF RESULTING PANELS SHALL BE 1.5 TO 1 U.O.N. JOINTS SHALL BE CONSTRUCTED PER DETAIL ENTITLED "TYPICAL JOINTS IN SLAB", DETAIL 1, SHEET A3.

THE TOP 4" BELOW CONCRETE SLABS ON GRADE SHALL CONSIST OF AN AGGREGATE BASE COURSE MEETING THE REQUIREMENTS OF THE SOILS PERPORT ID N

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REPURIT REMOVED FROM SUBVACES TO RECEIVE

CONGRETE. ALL FOORING EXCAVATIONS SHALL BE APPROVED BY THE

SOLIS DENSINEER BEFORE CONGRETE IS PLACED, ULDIN. CONCRETE:
CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301,
SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

NUM STRENGTH:

Fo = 2500 PSI AT 28 DAYS FOR FOUNDATION

Fo = 3000 PSI AT 28 DAYS FOR SLABS ON GRADE; DEPUTY SPECIAL

INSPECTION NOT REQUIRED BY ENGINEER

SLUMP. 4" \pm 1". NO WATER SHALL BE ADDED ON SITE WHICH WILL INCREASE SLUMP ABOVE 5". CONCRETE TO BE MIXED PER ASTM C94.

DI ACCUENT. DER ACI STANDARD 814

TESTS: 3 CYLINDERS FOR EACH POUR, FOR EACH 150 CU. YDS. OR EACH 5000 SQ. FEET OR SURFACE AREA, WHICHEVER IS LESS. GROUT UNDER COLLIMN BASE PLATES, ETC.: HIGH STRENGTH, NON-SHRINK, NON-METALLIC GROUT EQUIVALENT TO MASTERFLOW NO. 713, APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

CEMENT SHALL BE PER ASTW C150, TYPE I, LOW ALKALL MIX DESIGNS: SUBMIT TO ARCHITECT FOR REVIEW BY ENGINEER A MINIMUM OF ONE WEEK PRIOR TO FIRST CONCRETE DELIVERY,

MAXIMUM WATER/CEMENT RATIO: (BY WEIGHT)

F'c = 2500 PSI W/c = 0.72

F'c = 3000 PSI W/c = 0.64

NO ADMIXTURES CONTAINING CHLORIDE SALTS ARE PERMITTED, CONCRETE SHALL NOT BE IN CONTACT WITH ALUMINUM.

REINFORCING STEELE BARS: INTERMEDIATE GRADE, NEW BILLET PER ASTM SPEC. A815, GRADE 40. ALL REBAR BENDS TO BE MAKE COLD BAR LAP: CONCRETE: 40 DIA., U.O.N. MASDNRY: 45 BAR DIA., U.O.N. OR 24° MINIMUM, WHICHEVER IS GREATER. STAGGER SPLICES. FABRICATION AND PLACEMENT: PER CRSI STANDA

CONCRETE STEMS AND WALLS SHALL BE PER DETAIL ENTITLED "TYPICAL REINF. AT CONC. WALLS & FTS.", DETAIL 3, SHEET A3. MASONRY STEMS AND WALLS SHALL BE PER DETAIL ENTITLED "TYPICAL REINF. AT CONC. WALLS & FTS.", DETAIL 3, SHEET A3. GENERAL

STRUCTURAL

ONCRETE EXPOSED TO WEATHER AFTER FORMING: #6 AND LARGER......2" CLEAR #5 AND SMALLER.......1-1/2" CLEAR.

REINFORCING IN CONCRETE PLACED AGAINST EARTH WITHOUT FORMS IS TO BE SUPPORTED BY CONCRETE BLOCK, APPROVED NON-METALLIC CHAIRS, OR ANOTHER METHOD APPROVED BY THE ENGINEER. DOWELS: MATCH MASONRY VERTICALS IN SIZE AND SPACING, U.O.N.; MINIBUM 24" LAP.

MINIMUM 24 CAP.

ENFORCED HOLLOW-UNIT MASONEY:
CONCRETE MASONEY UNITS: FER ASTM SPEC. C90, GRADE N-1.
AGGREGATE SHALL CORPORT TO ASTM SPEC. C331.
ALLOWABLE DESIGN STRENGTH: Frm = 1350 PSI, N=44
LLY BLOCK IN EXAMINE BORD, U.O.R.

MORTAR: PER ASTM SPEC. C270, TYPE M OR TYPE S. F'c = 1800 PSI AT 28 DAYS.

, E = LOAD T SE A 1 ZO LIATS.

OROULT PER ASTE SPEC. CAT F G = 2000 PSI AT 28 DAYS WITH PEA GRAVEL AGGREGATE AND HOT LESS THAN A 6 1/2" SACK WIT.

SLUMP B ** S. SUBMIT DESIGN MIXTO ARCHITECT POR REVEW BY EXIGNEER A MANNAM OF ONE WEEK PRIOR TO FIRST GROUT DELIVERY.

NO RLY ASH (POEZOLAN) FERNITED IN MORTRA OR GROUT.

GROUT ALL BOND BEAMS, LINTELS AND REINFORCED CELLS. GROUT UNNERFORCED CELLS AS NOTED ON THE DRAWINGS. MASONRY BELOW GRADE SHALL HAVE ALL CELLS GROUTED SOLID REINFORCE AND GROUT AROUND ALL EMBEDDED ITEMS PER STRUCTURAL DRAWNINGS. ALL EMBEDDED STRUCTURAL ITEMS SHALL BE POSITIVELY SECURED IN PROPER POSITION BEFORE REVOLUTING ALL ANCHOR BOLTS SHALL BE EMBEDDED IN A PRINFERED GROUTED CELL.

HOLD GROUT $1/2^{\bullet}$ BELOW TOP OF VERTICALLY REINFORCED CELL TO FORM A "GROUT KEY" WITH LET ABOVE. ROD GROUT IMMEDIATELY AFTER PLACING AND AGAIN 5 MINUTES LATER.

MAXIMUM VERTICAL LIFT: 8'-0". PROVIDE CLEANOUTS FOR ALL LIFTS EXCEEDING 4'-0".

HORIZONTAL GROUT STOP IN BOND BEAMS SHALL BE METAL LATH OR FIBERGLASS; PAPER NOT PERMITTED.

USE HORIZONTAL JOINT REPUTORCEMENT, TWO #8 GA. WIRE, TRUSS OR LADDER DESIGN, AT 16" C.C. BETWEEN BOND BEAMS.

VERTICAL REMONDENT AS MOTION IN THE OWNERS AND A MINIMUM OF \$4 PERSON OF A MINIMUM OF \$4 PERSON OF A MINIMUM OF \$4 PERSON OF THE OWNERS AND EACH SIDE OF FORTICAL JOINTS. HOD VERTICALS IN PROPER POSITION WHITE SERVICE VERTICAL REMONDENCE AND POLICIES IN TEXAS OF THE OWNER PROPERTY OF THE OWNER POLICIES AND POLICIES, DETAIL 4, SEET I AS.

CONTROL JOINTS: PER DETAIL ENTITLED "TYP, MASONRY CONTROL JOINT DETAIL" DETAIL 2, SHEET AS, AT LOCATIONS NOTED ON THE DRAWINGS. CONTROL JOINT MATERIAL PER SPECIFICATIONS.

LINTELS: AS NOTED ON DRAWINGS, SUBMIT SHOP DRAWINGS OF STEEL LINTELS TO ARCHITECT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. USE OFFILE-INFOR RECYCLE OF ALL MASCUPY LINTELS.

STRUCTURAL STEEL:
ROLLED SHAPES AND PLATES: PER ASTM SPEC. A572, F'y = 50 PS PIPES: PER ASTM SPEC. A501. F'y = 36 PSI. STRUCTURAL TUBING: PER ASTM A500, GRADE B, F'y = 48 PS FABRICATION AND ERECTION: PER AISC MANUAL OF STEEL CONSTRUCTION.
DETAILING: PER AISC STRUCTURAL STEEL DETAILING. SHOP DRAWINGS: SUBMIT TO ARCHITECT FOR REVIEW BY ENGINEER PRIOR TO FABRICATION.

HOLES: 1/18" OREATED THAN BOLT SIZE, EXCEPT FOR ANCHOR BOLTS WHICH ARE 3/16" OREATED THAN BOLT SIZE, LLOUR.
WEIGHOUS PER STANDARDS OF THE AMERICAN WILDING SOCIETY.
ELECTROSES ANS A S. 1. E-70 SERIES. DOWN AND FILLD WILDING SHALL BE PERFORMED OF PROCRETE OF CHIEF WILDING.

COPES, BLOCK AND CUTS: ALL REENTRANT CORNERS SHALL BE SHAPED, NOTCH-FREE, TO A RADIUS OF AT LEAST $1/2^{\circ}$.

LEDGERS AND OTHER STRUCTURAL TIMBER: D.F. GRADE #2, U.O.N.; LEDGERS OR ANY MEMBER IN CONTACT WITH CONCRETE OR MASONR' SHALL BE PRESERVATIVE TREATED.

RAFTERS AND JOISTS (2X'S): D.F. GRADE #2, F'b = 1450 PSI (REP),
F'v = 95 PSI, F=1, 7/40, PSI,

BEAMS (3X's, 4X's AND 5X's). D.F. GRADE #1, U.O.N. ALL BEAMS TO BE SUPPORTED WITH FULL WIDTH BEARING.

ALL HEAMS TO BE SUPPORTED WITH FOLL WOTH BEARING.
PREFERENCH TO TRUSS ASSIST MOD TRUSSES. SIALL BE SIZED MO
PROPERLY ALL DESIGNATION OF TRUSSES. SIALL BE MADE MODE TO THE MEMORY AND SECTION PROPERTIES ASSISTED AND APPROVED BY THE VALUE AND SECTION PROPERTIES ASSISTED AND APPROVED BY THE MEMORY AND THE MEM

ALL LIGHT GALIGE METAL CONNECTORS TO BE FULLY MALLED AND BOLTED SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO FARRICATION.

MINIMUM AREA OF PLYWOOD SHEET SHALL BE 8 SQUARE FEET, WITH A MINIMUM DIMENSION OF 24°. OF SHEATHING: 5/8" APA RATED, EXPOSURE 1, 32/16.

WALL SHEATHING: 1/2" APA RATED, STRUCTURAL I, 24/0. ALL WALL PLYWOOD PANEL EDGES TO BE BACKED BY 2x BLOCKING FROM ROOF LINE TO FINISHED FLOOR. INTERIOR FLOOR SHEATHING: 3/4" MINIMUM, T & G. APA RATED, EXPOSURE 1, 40/20.

BALCONY SHEATHING: 3/4" MINIMUM APA, T & G. RATED, EXPOSURE 1, 40/20. ALL PLYWOOD SHALL CONFORM TO U.S. DEPT. OF COMMERCE PRODUCT STANDARD PS-1.

INSTALLATION: ALL WALL PLYWOOD PANEL EDGES SHALL BE BADKED WITH 2-HIGH HOMINAL FRAMING (BLOCKED). LAY HORIZONTAL PLYWOOD SHEETS ON FLOORS AND ROOFS WITH LONG DIMENSIONS PERPENDICULIAR TO JUSTIS AS DETALED. PLYWOOD FOR WALLS MAY BE INSTALLED HORIZONTALLY OR WERTICALLIY, ALL VERTICAL JUSTIS SHALL COQUE OVER STUDS.

ALL PLYWOOD, LIGHT FRAMING, DIMENSIDHAL LUMBER AND CLU-LAMS SHALL BE STAMPED WITH THE APPROPRIATE IDENTIFYING MARK ON AN APPROVED INSPECTION AGENCY AND/OR LUMBER ORADING AGENCY. STEEL HANGERS, SADDLES & SEATS: SIMPSON OR APPROVED EQUAL, SEGURED PER MANUFACTURER'S RECOMMENDATIONS AND AS NOTED ON THE DEMANDER.

BOLTS AND BOLT HOLES: 3/4" DIA, IN 13/16" DIA, HOLES, U.O.N

OPENINGS FOR ROOF PENETRATIONS: U.O.N. SHALL BE LOCATED BETWEEN JOISTS OR OTHER STRUCTURAL MEMBERS. BLOCK JOISTS AT MID-SPAN AND AT POINTS OF BEARING OTHER NAILING: PER NAILING SCHEDULE BELOW.

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT
THE STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE
BUT NOT LIMITED TO, BRACING AND SHORING FOR LOADS IMPOSED DURING
CONSTRUCTION, ETC.

OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE CHOOSES AN OPTION AND SHALL COORPINATE ALL DETAILS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN COLORADO.

GENERAL SPECIFICATIONS:

DESIGN DATA: CODE: DEAD LDAD. UVE LOAD: WIND LOAD:

UNITORN BULDING CODE, 1994 EDITION
21 PSF
(PEDUCURE)
8.450 MING SPEED = 70 M.P.H. EMPOSURE TO; METHOD 2
12.5 X.1.10 X.1.3 PLS PSF
ZODE 1/BEARNO MALL SYSTEM V~(0.075)(1.00)(2.75)W/6~0.004M

FOUNDATION AND EARTHMORK,
FARTHMORK SHALL CONFORM TO THE ABOVE MENTIONED SOILS REPORT. WINNUM GEPTH TO BOTTOM OF FOOTINGS SHALL BE 1'-6' BELOW LOWEST ADJACENT RINGHED GRADE FOR EXTERIOR FOOTINGS AND 1'-6' BELOW FINISHED FLOOR FOR INTERIOR FOOTINGS, LLOJA.

SPACING OF CONTROL JOINTS AND CONSTRUCTION JOINTS SHALL BE 20 FEET MAXIMUM IN EACH DIPECTION AND MAXIMAM ASPECT RAIL OF RESILLING PARES SHALL BE 1.5 TO 1 LION JOINTS SHALL BE 01/STACKED PER BETAL ENTITLED "JOINTS IN SLAB ON CRACE" 1/S-3.

PEFER TO PLAN FOR CONTROL JOINTS IN CONCRETE PAVEMENT.
THE TOP 4" BELOW CONCRETE SLABS ON GRADE SHALL CONSIST OF AN
AGGREGATE BASE COURSE MEETING THE REQUIREMENTS OF THE SOILS
REPORT LIGHT.

CONCRETE.
CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301
SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

CENTRALINES FOR THE SECRET SEC

TESTS: 3 CYUNDERS FOR EACH POUR, FOR EACH 150 CJ. YOS. OR EACH 5000 SQ FEET OR SURFACE AREA, WHICHEVER IS LESS

GROUT UNDER COLLIAN BASE PLATES, ETC.: HIGH STRENGTH, NON-SHRIMK, NON-METALLIC GROUT EQUIVALENT TO MASTERILOW NO. 713, APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

MIX DESIGNS. SUBMIT TO ARCHITECT FOR REVIEW BY ENGINEER A MINIMUM OF DIKE MEEK PRIOR TO FIRST CONCRETE DELIVERY.

MAXIMUM WATER/CENENT PATIO: (9Y WEIGHT)
Fc = 2500 PS W/c = 0.72
Fc = 3000 PS W/c = 0.64
ADDREDATE PER ASTN DZS. NAXINUE 17

NO ADMIXTURES CONTAINING CHLORIDE SALTS ARE PERMITTED. CONCRETE SHALL NOT BE IN CONTACT WITH ALLWINDAM.

DEPOSITION STELL SHARE, SHARE HER ASTA SEEL AND, DANK SE ALLE HER BIRDS TO SE MAKE COLD. SHARE, COLD. SHARE,

GENERAL SPEC'S -STRUCTURAL

SHOP DRAWNS: SUBMIT TO ARCHITECT FOR REVIEW BY ENGINEER PROFITE TO FARRICATION.

REINFORCING IN CONCRETE PLACED AGAINST EARTH WITHOUT FORWS IS TO BE SUPPORTED BY CONCRETE BLOCK, APPROVED NON-METALLIC CHARS, OR ANOTHER METHOD APPROVED BY THE ENGINEER. DONELS: MATCH VERTICALS IN SIZE AND SPACING, U.O.N.; MINIMUM 30° LAP, LLON.

SITEL: ALL STEEL NOT DIHERWISE NOTED SHALL BE PER ASIM A572 (Fy = 30 KSI) PER LATEST AISC SPECIFICATIONS. MACHNE BOLTS, AACHOR BOLTS, AND THREADED STUDS SHALL BE PER ASTM A307, U.O.N.

HOLES: $1/16^\circ$ creater than bolt size, except for anchor bolts which are $3/16^\circ$ greater than bolt size, u.o.n. PPE COLUMNS SHALL BE PER ASTM AJS, GRADE B, Fy = 35 KSL OR ASTM ASOT, Fy = 36 KSL

TUBE STEEL SHALL BE PER ASTN ASCO, GRADE B, Fy = 46 KS. ALL WELDING SHALL BE PER ANS STANDARDS, LATEST EDITION.

COPES, BLOCK AND CUTS: ALL REDWIRANT DOWNERS SHALL BE SHAPED,

NOTCH-FREE, TO A RADIUS OF AT LEAST 1/2".

ALL WEIGHTS AND BE DOES OF SELECTION OF SELECTION ALL WILDERS SHALL BE DOES OF SELECTION OF SELE

ALL FIELD WELDING SHALL BE INSPECTED BY A TESTING LABORATORY APPROVED BY THE ENGINEER.

ALL STEEL NOT ENCASED IN CONDRETE OR MASONRY SHALL HAVE ONE SHOP-GBAT-GR RED LEAD OR ZING CHROWATE.

-SHOP-CHAFT-OR FED LEAD OR CHROMANIE.

MILLION RODE SAVAL BE LONG-HOROCON THREE FOR.

ALL BUTT WE DOD SPLESS IN MATERIAL, IMPORT THAN 5,78° SHALL BE REFERED BY A TESTING LABORATORY APPROXICED BY THE DIMERER, TO CREET YALL BENESS AS WERTHER OR BESTEROMS STRENGT OR MATERIALS SPLICES. COPPES OF TEST REPORTS HAD LETTER OF CRITIFICATION SHALL BE SAPILITED TO BRIGHTEN.

WELDS INDICATED WAY BE WAKE IN SHOP OR FIELD WITH APPROVAL

CONCRETE EXPANSION ANCHORS: PHILLIPS REDHEAD CONCRETE ANCHOR ANCHORS BRILL COMPANY, INC., OR HILTI CONCRETE EXPANSION ANCHORS

OPEN WES SEEL JOSES AND JOST GRODERS
STEEL JUSTIS AND JOST GRODERS SHALL BE ESSAND, DETAILED AND
MANUFACTURED IN THE DIMENSIONS AND LDANS MOCKARE ON THE
PLACE AND & THE STRECTURE, MONTS. DIGIS OF STEEL JOSTS SHALL
BE FASBOLARD TO ACCOUNT FOR JOST SOPE AND DO BUS DE
COMBINION. THE DIGIS OF K-SENS SEEL SION OF AND DIGIS OF AND
A MARMAN OF 2"2" O'RE STEEL DIGIS SUPPORTS.

DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH LATEST EXITION OF STEEL AXIST INSTITUTE BY A WEMBER OF SII APPROVED FOR THE TYPE OF JUST BEING USED

ALL STEEL MOSTS SHALL BE MANUFACTURED WITH A POSITIVE CAMBER AS RECOMMENDED BY THE STEEL JUST INSTITUTE.

JOSTS AND ERDORIOS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMODICATIONS OF THE STEEL JUST INSTITUTE. BRIGGING SHALL BE WELDED TO THE LEDGE ANGLES OF TO WELD PLATES AS SHOWN ON THE STRUCTURAL BRAWNESS.

DO NOT DRUL THROUGH OR WELD TO JOST OR BROCK MEMBERS WITHOUT PRIOR APPROVAL. SEE DETAIL FOR ADDITIONAL WEB ANGLE REQUIREMENTS AT MSCELLAFOOUS FRAMING CONCITIONS.

WHERE COST OR BISCISS ARE CUSTOM DISCORDS TO HEET HINHAMAL LONG RECURRENCES ON DEAWNOS, CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND DETHIES SHOP DEAWNOS SOOTH BEFORE THE SEAL OF A CHALL OS RECURRENCES AND CONTRACTOR PRODUCTION THE STATE IN WHICH THE PROJECTS IS LOCATED, FOR REVIEW PROX TO FARBOLITION, SHOP DEAWNOS SHALL DROCKE WISERS 2SZS AND JOUT FELDING.

COLD-FORMED LIGHT GALLOS WETH, FRAMBURS STEEL FOR ALL 16 CAUCE AND HEAVER STEELS, SISTS, TRACKS AND STREAM SHALL SEPERATE SHALL SEPERATE SHALL SEPERATE SHALL SHA

STUDS SHALL BE CHANNEL OR "C" SHAPE, OF THE DEPTHS AND SPACING SHOWN ON THE DRAWINGS. TRACKS SHALL BE 16 GAUGE WITH A MINIMUM PLANDE DE 1 4/16".

PROVICE SOLID WEB 16 GALKE CHANNEL, FULL DEPTH, BRIDGING AT BEARING WALLS NOT SHEATHED ON BOTH SIDES.

BEDDING SHALL BE COLD-ROLLED CHANNEL, NIMMAN 1 1/2" DEEP WITH 9/16" FLANCE WOTH. SPACE BRIDGING AT 4-0" MADINUM O.C. VERTICALLY, DOLLED STORES AT ALL WARRS. PROVIDE TRUSS—TYPE LINTEL POR MANUFACTURETY'S CATAGOD CENTRE.

ALL COMPLETIONS SHALL BE PRIMAPPICTURED'S RECOMMENDATIONS AND ADMINISTRATION STATE OF MAINTAINED AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRAT

EXPOSED STEEL ROOF DECK; STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS APPLY.

MATERIAL, DESIGN, MANUFACTURE, AND INSTALLATION SHALL BE EQUIVALENT TO VERCO MANUFACTURING, INC., OR EQUAL, U.C.N.

DECK SHALL BE 1 1/2" DEEP, TYPE HSB, 22 BAUGE, PAINTED, WITH MINIMUM I = 0.183 N 4 , S = 0.209 N 3 , PER FOOT MOTH OF DECK.

STRUCTURAL CONSTRUCTION DESERVATOR.
IT IS THE CONTRICTOR'S RESPONSIBILITY TO INSPICE ALL STRUCTURAL
WARN FOR CONSTRUCTION PROVIDED BY OTHERS DOES NOT RELIEVE
CONSTRUCTION DESERVATION PROVIDED BY OTHERS DOES NOT RELIEVE
CONTRICTOR THE PROPRIOTE DEVIAND THAT ARE TROUBLE OF THE
DATE AND ARE DECLARED TO BE SOMECHAT WITH ALL DEPARTED AT
THE CONTRICTOR'S DEPONSE.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE FACULTIES FOR THE STRUCTURAL CONSTRUCTION OBSERVED, TO ALLOW HIM TO PERFORM HIS WORK SAFELY AND EPHOENILY.

WELDING OF BOOK DECK: INTERNEDIATE AND END WELDS AT EACH TRANSVERSE SUPPORT (JOISTS, PEANS, ANDLES, PLATES, ETC.):

BOWN, MUCE, RATE, TIE).
DOUGH BOOT DEALER PRICE HILD IN THE MILES OF BOOK.
TO THE ME HAVE PRICE HILD IN THE MILES OF BOOK.
MOOT DECK HILD HAVE PRICE TO CORRECTION.
AND THE METHOD HANDED HE CONTINE.
AND THE METHOD HANDED HE METHOD HANDED HE METHOD HANDED HE METHOD HANDED HE METHOD HE ME

SDE LAPS. ROOF DECK WITH LIGHTWEIGHT INSULATING CONCRETE: N/A EXPOSED ROOF DECK: BUTTON PUNCH AT 24" C.C.

SHEAR IT AND CESS SHAPES AND INSPIRACIAL CHORES QUARMED HAVELET IN DEPREMATINGS 1/2 FEBRUARY AND MARKER ROUNCE HAD A 1/2 FO-C; (SEPORE HEROPHICALEN TO DEPOCATIONS; 1/2 FEBRUARY HAVELET HAVE AND A 1/2 FO-C; (SEPORE HEROPHICALEN TO DEPOCATIONS; 1/2 FEBRUARY TO MAKE HAD IN ALL WALLEYS OF DECK. PROMISE TO GENERAL PROMISE AND IN ALL WALLEYS OF DECK. 1/2 FEBRUARY TO MAKE HAD 1/2 FEBRUARY TO MAKE HAD

PENFORCED HOLLOW-MASOURY UNITS: CONCRETE MASORRY UNITS: PER ASTM SPEC CSO, GRADE N=1, Fm = 1350 PSI AGGERATE SHALL CONFORM TO ASTM SPEC C331.

MORTAR: PER ASTM SPEC. 0270, TYPE N OR TYPE S. Fc = 1800 PSI AT 28 DAYS. , = 1000 FB IN 20 MAIS. CROUT PER ASTIN SPEEL CATE FE = 2008 PB AT 28 BAYS WITH PEA GRANE, AGREGATE AND MOT LESS THAN A B $1/2^{\circ}$ SADC MIX. SHAPE DESIGN MIX TO ARCHITECT FOR EXHAUS PER DISHIBLE A MANUAL OF ON HEXE PROOF TO FRECHEN NO FLY ASH (POZZOLAN) PERMITTED IN WORTAR OR GROUT.

CROUT ALL BOND BEANS, LINTELS AND REINFORCED CELLS. DROUT LINEAR PRICED CELLS AS INDEED ON THE BRANKES. MASDINF BELOW GRAVE SHALL BARK REL CELLS FOR ALL CEL

HOLD GROUT 1/2" BELDW TOP OF MERTICALLY REINFORCED CELL TO FORM A "GROUT KEY" MITH LIFT ABOVE.

FROM A UNBOUNTET WHILE I ABOUT.

ROD GROUT INMEDIATELY AFTER PLACING AND AGAIN 5 MINUTES LATER.

MAXIMUM METCAL LET. 8'-0', PROVIDE CLEANOUTS FOR ALL LETS
EXCELLING. 8-0'. HORIZONTA, REMPORCIZIANTI: USE TWO M. CONTINUOUS IN ALL BONN BEANS, LLON, LAP CONTINUOUS REMPORCIZIEDIT 45 BAR DINNETERS MINIMA AND ADVITORALLY AT CORNERS AND WALL INTERSECTIONS PER BETAL ENTITIES TYPHOLI REINE, AT CORNERS & INTERSECTIONS', DETAL JOST-II.

HORIZONTAL GROUT STOP IN BOND BEAMS SHALL BE WETAL LATH OR FIBERGLASS; PAPER NOT PERMITTED.

USE HORZONTAL JOINT REINFORCEMENT, TWO JS GA. WIRE, TRUSS OR LADDER DESIGN, AT 16" O.C. BETWEEN BOND BEAKS.

VERTICAL REINFORCEMENT: AS NOTED ON THE DRAWNOS AND A NAMAN OF AS VERTICAL CONTINUOUS AT ALL CORNING, AWARS, WALL INTERSECTIONS, AND EACH SIZE OF CONTINUOUS THE ALL INTERSECTIONS, AND EACH SIZE OF CONTINUOUS THE ALL INTERSECTIONS AND EACH SIZE OF CONTINUOUS THE ALL INTERSECTION WITH WIRE SPACESS MERTICAL PRINTORCOMENT WHICH IS INTERSEPTED BY PRODETS OR OPENIONS SIMIL BE WIRE CONTINUOUS EACH SIZE.

CONTROL JONI'S: PER DETAL ENTITLED "TYP, MASONRY CONTROL JOINT DETAL 3/S-I1, AT LOCATIONS NOTED ON THE DRAWNGS. CONTROL JOINT MATERIAL PER SPECIFICATIONS

WOSEPS. CONTINUES FOR THE CHARACTERS FOR LIGHTED HTM.

WOSEPS. CONTINUES EXCUS SHALL WAND AND MORE AND

SECURELY HED IDEEHER.

*NO FLY ASH (PDZZOLAN) IS PERNITTED IN MORTAR OR BROUT.

*STAY EACH DID VERTICAL REBAR USING SINGLE WIRE AND
LOOP TYPE TIES MAXIMUM VERTICAL SPACING OF TIES = 8'-0

MOSTERY TEMPORALISM CREATION, SPANISHO OF IEST B A - J. WISSERY TEMPORALISM CREATION OF CONTROL OF STATE A CONTROL OF STATE A CONTROL OF STATE OF STATE A CONTROL OF STATE OF STATE A CONTROL A CONTROL OF STATE OF STATE A CONTROL OF STATE OF STATE

1-#5 AT ALL CORNERS, INTERSECTIONS, WALL ENDS AND EACH SIDE OF EXPANSION OR CONTROL JOINTS. SEE PLANS AND DETAILS FOR JAMB REINFORCING.

· LINTELS: SEE LINTEL SCHEDULE.

NOTE TO COVERACIONE.

THE CONTRACTOR SHALL PROMOE ALL WEASHES NECESSARY TO PROTECT
THE STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE,
BUT NOT LIMITED TO, ERACING AND SHORING FOR LOADS IMPOSED DURING
CONSTRUCTION, ERAC

OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL DHANGES NEDESSARY IF HE CHODSES AN OPTION AND SHALL COOPDINATE ALL DETAILS.

THE DOST OF ADDITIONAL DESIGN OR REVEN WORK BY THE ARCHITECT, ENDINER DUE TO SELECTION OF AN OPTION BY THE CONTRACTION, OF DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION BY THE CONTRACTOR, SHALL BE BORNE BY THE CONTRACTOR.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVEW SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN [STATE].

SPECIAL INSPECTIONS:
DEPUTY SPECIAL INSPECTIONS IN ACCOMPANCE WITH THE UBC IS REQUIRED FOR THE FOLLOWING.

1 GROUT PLACEMENT OF PREFABRICATED STEEL UNTILS.
2. FIELD WELDING.

STRUCTURAL NOTES

DESIGN CRITERIA: ROOF LIVE LOAD FLOOR LIVE LOAD (RESIDENTIAL) FLOOR LIVE LOAD (COMMERCIAL) RUNDARY LIVE LUBY STAIR/CORRIDOR LIVE LOAD BASIC WIND SPEED SEISMIC ZONE

54 PSF 40 PSF 75 PSF AASHTO HS-20 80 MPH (EXP. B)

- FOUNDATION DESIGN:

 A. DESIGN OF INDIMIDUAL AND CONTINUOUS FOOTINGS IS BASED ON A MAXIMUM ALLOWABLE BEARNO PRESSURE OF 8000 PSF (DEAD LOAD PLUS FULL LIVE LOAD).

 B. FOUNDATION DESIGN IS BASED ON SOILS REPORT #94625G BY INTER-MOUNTAIN ENGINEERING. REFER TO REPORT FOR ADDITIONAL CONSTRUCTION REQUIREMENTS RECARDING SOILS.
- FOOTINGS SHALL BE PLACED ON THE NATURAL UNDISTURBED SOIL, OR COMPACTED STRUCTURAL FILL, BELOW FROST DEPTH.
- PROVIDE CONTINUOUS FOUNDATION DRAINS AROUND THE PERIMETER OF ALL FOUNDATION
- PROVIDE CONTINUOUS FOUNDATION DRAINS ARGUND THE PERIMETER OF ALL FOUNDATION WALLS. CONTACT SOILS ENGINEER FOR DETAILS. SOIL CONDITIONS AND TYPES SHALL BE VERIFIED BY A REPRESENTATIVE OF THE SOILS ENGINEER DURING EXCAVATION. REPORT ANY DISCREPANCIES FROM ORIGINAL FINDINGS TO STRUCTURAL ENGINEER FOR RE-EVALUATION OF FOUNDATION DESIGN.
- REINFORCED CONCRETE:

 A. CONCRETE DESIGN IS BASED ON THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318–89).
- STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000
- SPECIAL INSPECTION FOR THE TAKING OF TEST SPECIMENS AND PLACEMENT OF CONCRETE
- SPECIAL INSPECTION FOR THE TAXING OF TEST SPECIMENS AND PLACEMENT OF CONCRETE AND REINFORCING STEEL SHALL BE PROVIDED ACCORDING TO UBC. SECTION 306. CONCRETE SHALL BE PROPORTIONED USING TYPE II CEMENT. ADMIXTURES CONTAINING CHLORIDE SALTS SHALL NOT BE USED. SUBMIT MIX DESIGN TO ENGINEER FOR REVIEW.

 COLD WEATHER CONCRETING PROCEDURES SHALL BE PROVIDED AS RECOMMENDED IN THE

- ACI MANUAL OF CONCRETE PRACTICE. ANCHOR BOLTS FOR BEAM AND COLUMN BEARING PLATES SHALL BE PLACED WITH SETTING
- IEMPLAIES.

 EXPANSION BOLTS SHALL BE LOCATED AT A MINIMUM OF 6 BOLT DIAMETERS FROM CONCRETE EDGE AND SPACED AT 10 BOLT DIAMETERS UNLESS NOTED OTHERWISE. ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED 3/4".

 CONCRETE COVERGE FOR REINFORCING STEEL (ACI 318):

 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH CONCRETE EXPOSED TO EARTH OR WEATHER:

#5 BAR AND SMALLER 1-1/2
#6 THROUGH #18 BAR 2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS, JOISTS (#11 BAR AND SMALLER) BEAMS, COLUMNS

- REINFORCING STEEL:
 A. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE
- WITH THE ACI MANUAL OF CONCRETE PRACTICE.

 EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS, REINFORCING BARS SHALL CONFORM
 TO ASTM SPECIFICATION A615-79 AND SHALL BE MINIMUM GRADE 60 EXCEPT TIES, FIELD BENT BARS WHERE PERMITTED BY NOTE ON PLAN, OR BARS TO BE WELDED, WHICH
- FIELD BENT BARS WHERE PERMITTED BY NOTE ON PLAN, OR BARS 10 BE WELLDED, WHICH SHALL BE CRADE 40. AT SPLICES IN CONCRETE, LAP BARS 36 DIAMETERS. DO NOT WELD OR USE MECHANICAL SPLICING DEVICES UNILESS SPECIFICALLY APPROVED BY ENGINEER. AT CORNERS, MAKE HORIZONTAL BARS CONTINUOUS OR PROVIDE CORNER BARS. AROUND
- OPENINGS AND STEPS IN CONCRETE, PROVIDE (2)-#5'S EXTENDING 2'-0" BEYOND EDGE OF OPENING OR STEP
- OF OPERING OF STEE.

 EXTEND REINFORCING STEEL A MINIMUM OF 24" THROUGH COLD JOINTS. UNLESS SPECIFICALLY LOCATED ON PLAN OR DETAILS, COORDINATE COLD JOINT LOCATIONS WITH
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATION A-185. LAP WELDED WIRE FABRIC A MINIMUM OF ONE FULL MESH PLUS TWO INCHES. LAPS SHALL BE WIRED

- STRUCTURAL STEEL:

 A. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.

 B. STRUCTURAL STEEL ROLLED SHAPES, INCLUDING PLATES AND ANGLES, SHALL BE ASTM A572, TUBE SHAPES SHALL BE ASTM A572, GRADE B OR ASTM A501.
- GRADE B OR ASTM A501.
 ALL BOLTS USED IN STEEL FRAMING SHALL CONFORM TO ASTM SPECIFICATION A325.
 ANCHOR BOLTS AND BOLTS USED IN TIMBER CONNECTIONS MAY BE ASTM A307. BOLT
 SIZES SHALL BE 3/4" DIAMETER UNLESS NOTED OTHERWISE.
 TYPICAL FRAMED BEAM CONNECTIONS SHALL CONSIST OF PAIRS OF 1/4" ANGLES USING THE
 MAXIMUM NUMBER OF BOLTS CALLED FOR IN TABLE II—A OF THE AISC MANUAL (ASD
- NINTH EDITION)

- NINTH EDITON).
 ALL WELDING SHALL BE DONE BY AN AWS CERTIFIED WELDER.
 DELAY PAINTNO WITHIN 3" OF FIELD WELDS UNTIL WELDS ARE COMPLETED.
 EXPANSION BOLTS SHALL BE WEDGE TYPE "HILTI", "RAWL", OR "RED HEAD" OR APPROVED
 EQUIVALENT WITH THE FOLLOWING MINIMUM EMBEDMENTS:

 1/2" DIAMETER --- 2-1/2"
 5/8" DIAMETER --- 3"
 3/4" DIAMETER --- 4"

STRUCTURAL NOT TO SCALE

ADHESIVE ANCHORS CALLED FOR ON THE DRAWINGS SHALL BE GLASS CAPSULE TYPE SUCH AS "MOLLY PARABOND" OR "HILTI HVA" ANCHOR SYSTEMS. MINIMUM EMBEDMENTS, IF NOT SPECIFICALLY INDICATED ON THE DRAWINGS, SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

BACKFILLING:

- EXPLILING:

 AND NOT BACKFILL AGAINST RETAINING WALLS UNTIL SUPPORTING ELEMENTS ARE IN PLACE AND
 SECURELY ANCHORED, OR ADEQUATE SHORING IS INSTALLED. CONCURRENT BACKFILLING OF
 EACH SIDE OF A RETAINING WALL TO FINAL GRADES AS INDICATED ON PLAN OR SECTIONS IS
 REQUIRED UNLESS TEMPORARY SHORING IS INSTALLED.

 VERIFY TYPE OF FILL WITH SOILS ENGINEER AND STRUCTURAL ENGINEER PRIOR TO BACKFILLING.
- GROUT:
 A. ALL GROUT BENEATH COLUMN BASE PLATES AND STEEL BEAMS AT BEARING SHALL BE NON-SHRINK, NON-METALLO TYPE GROUT. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI

- STRENGTH OF 2000 PS.

 CAST_CONCEPTE:

 PRECAST_CONCEPTE:

 PRECAST_CONCEPTE MEMBERS AND CONNECTIONS SHALL BE DESIGNED BY THE PRECAST SUPPLIER TO SATISFY THE LOADING REQUIREMENTS SHOWN ON THE DRAWNOS. DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCERTE" (ACI 318-33, 1986 REVISION).

 PRECAST MEMBERS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000
- SHOP AND ERECTION DRAWNGS, INCLUDING CALCULATIONS, SHALL BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- HANDLING AND ERECTION METHODS SHALL ENSURE THAT NO DAMAGE OR OVERSTRESSING OF MEMBERS OCCURS.
 THE FLOOR SLAB HAS NOT BEEN DESIGNED TO SUPPORT CRANE WHEEL LOADS.

- ALL WELDING SHALL BE DONE BY AN AWS CERTIFIED WELDER.
 CONNECTIONS WHICH ARE EXPOSED TO SOILS OR WEATHER SHALL BE PROTECTED FROM
 CORROSION BY A FIELD-APPLIED COATING APPROVED BY THE ARCHITECT.
- STEEL DECK: A. STEEL ROOF AND FLOOR DECK SHALL BE THE DEPTH, GAUGE AND RIB TYPE INDICATED ON THE
- DECK SHALL BE FABRICATED FROM STEEL SHEET CONFORMING TO ASTM A.611 OR A.446 HAVING A MINIMUM YIELD STRENGTH OF 33 KSI.
- DECK SHALL BE MANUFACTURED AND FRECTED IN ACCORDANCE WITH STANDARD RECOMMENDATIONS OF THE STEEL DECK INSTITUTE.
 WELDING PATTERNS AND DETAILS SHALL BE INDICATED ON THE MANUFACTURER'S SHOP
- DRAWINGS. REQUIRED DIAPHRAGM SHEAR VALUES ARE INDICATED ON THE STRUCTURAL
- SHEETS SHALL BE FINISHED BY PHOSPHATIZING AND PAINTING WITH A BAKED-ON ACRYLIC PRIMER. WHERE DECK IS USED AS A CONCRETE FORM, THE SIDE OF THE DECK IN CONTACT WITH THE CONCRETE SHALL BE PHOSPHATIZED BUT NOT PAINTED.

 OPENINGS LARGER THAN 6" IN DIAMETER SHALL BE APPROVED BY THE STRUCTURAL ENGINEER

- F. OPENINGS LARGER THAN 6" IN DIAMETER SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO BEING CUI TINTO THE DECK.

 STEEL STUDS AND JOISTS.

 A. STUD SUBGONITACTOR SHALL PROMDE BRIDGING AND BLOCKING AS REQUIRED FOR STABILITY AND STIFFNESS OF THE FINAL WALL OR FLOOR/ROOF ASSEMBLY.

 B. METAL STUDS AND JOISTS SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING INDICATED ON THE DRAWINGS, WITH MINIMIAM SECTION PROPERTIES AS SPECIFIED.

 C. INSTALL "C" SHAPED HEADERS OVER OPENINGS WITH WEBS BACK—TO—BACK.

 E. ALL 16—CAUGE, 14—CAUGE AND 12—CAUGE STRUCTURAL STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM 570—79 OR ASTM A—446—D WITH A SOLODO PSI MINIMUM YIELD STRESS.

 ALL IAB—CALIFER AND LIGHTER STRUCTURING STUDY SHALL BE FORMED FROM STEEL.
- ALL 18-CAUCE AND LICHTER STRUCTURAL STUDS AND JOISTS SHALL BE FORMED FROM STEEL
 THAT CONFORMS TO THE REQUIREMENTS OF ASTM 570-79 OR ASTM A-446-C WITH A
 33,000 PS MINIMUM YIELD STRESS.
- STRUCTURAL STUDS AND JOISTS SHALL BE COATED WITH RED ZINC OXIDE PAINT, OR SHALL BE GALVANIZED.
- ALL FIFLD WEIDED JOINTS OR GROUND AREAS SHALL BE TOUCHED UP WITH A SIMILAR RUST-INHIBITIVE MATERIAL.
 GENERAL REQUIREMENTS:

LIKAL KRUDIKENENIS: STRUCTURAL ERECTION AND BRACING: THE STRUCTURAL DRAWINGS ILLUSTRATE THE COMPLETED STRUCTURE WITH ALL ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED AND BRACED. THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PROVIDE SHORING AND BRACING AS MAY BE REQUIRED DURING CONSTRUCTION TO ACHIEVE THE FINAL COMPLETED STRUCTURE. CONTACT STRUCTURAL ENGINEER FOR CONSULTATION (NOT IN CONTRACT) AS

- REQUIRED.

 SHOP DRAWINGS: SUBMIT SHOP AND ERECTION DRAWINGS FOR STRUCTURAL STEEL,
 MISCELLANEOUS STEEL, STEEL JOISTS AND GIRDERS, STEEL DECK, MASONRY REINFORCING
 STEEL, WOOD TRUSSES, AND MANUFACTURED WOOD JOISTS TO ENGINEER FOR REVIEW PRIOR TO FABRICATION.

 EXISTING STRUCTURES: IF CONSTRUCTION ADJOINS AN EXISTING STRUCTURE, CONTRACTOR

- EXISTING STRUCTURES: IF CONSTRUCTION ADJOINS AN EXISTING STRUCTURE, CONTRACTOR SHALL BE RESPONSBILE FOR VERIFYING DIMENSIONS, ELEVATIONS, FRAMING, FOUNDATIONS AND ANYTHING ELSE THAT MAY AFFECT THE WORK SHOWN ON THE DRAWNGS. UNDEPRINNING, SHORING AND BRACING OF EXISTING STRUCTURES SHALL BE THE RESPONSBILLTY OF THE CONTRACTOR.

 DIMENSIONS: CHECK ALL DIMENSIONS AGAINST ARCHITECTURAL DRAWNGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWNGS.
 CONSTRUCTION. DO NOT SCALE DRAWNGS. TECHNIQUES, SEQUENCES AND PROCEDURES FOR CONSTRUCTION OF THIS PROJECT. NOTIFY STRUCTURAL ENGINEER OF OMISSIONS OR COMPLICTS BETWEEN THE WORKING DRAWNGS AND EXISTING CONDITIONS. COORDINATE REQUIREMENTS FOR MECHANICAL/FLECTRICAL/PLUMBING PENETRATIONS THROUGH STRUCTURAL ELEMENTS WITH STRUCTURAL ELGONEER. JOBSTIC SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL METHODS USED FOR
- FERRITARIONS INFOCOMED STRUCTURE LEGEMENTS WITH STRUCTURE, ENGINEER. JOSSIE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL METHODS USED FOR CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE UBC. THOUSE EVERY EFFORT IS MADE TO PROVIDE A COMPLETE AND CLEAR SET OF CONSTRUCTION DOCUMENTS, DISCREPANCIES OR OMISSIONS MAY OCCUR. RELEASE OF THESE DRAWINGS ANTICIPATES COOPERATION AND CONTINUED COMMUNICATION BETWEEN CONTRACTOR, ARCHITECT AND ENGINEER TO PROVIDE THE BEST POSSIBLE STRUCTURE.

PLAN NOTES

- 1. ELEVATIONS OF CONCRETE FOUNDATION ELEMENTS INDICATED ON PLAN THUS: T.O.W.=TOP OF CONCRETE WALL T.O.F.=TOP OF CONCRETE FOOTING T.O.S.=TOP OF CONCRETE SLAB
- 2. TOP OF FOOTING ELEVATIONS ARE BASED ON FINDING ADEQUATE SOIL BEARING CONDITIONS AT THAT DEPTH. CONTACT ENGINEER IF OVEREXCAVATION IS REQUIRED.
- 3. STEPS IN TOP OF CONCRETE WALL INDICATED:



- 4. CONTINUOUS CONCRETE FOOTINGS ARE CENTERED BENEATH CONCRETE FOUNDATION WALLS UNLESS NOTED OTHERWISE.
- 5. CONCRETE FOUNDATION WALLS ARE 10" THICK AND CONTINUOUS FOOTINGS ARE 10" THICK x 18" WIDE UNLESS NOTED OTHERWISE.
- 6. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING STRUCTURE.



- 1. COLUMNS BELOW ARE INDICATED: CONTINUOUS PC COLUMNS ARE INDICATED:
- 2. DEAD AND LIVE LOADS FROM FRAMING ABOVE ARE INDICATED AT COLUMNS ON PLAN.
- 3. DESIGN LIVE LOADS AT THIS LEVEL:

RETAIL AREA:

LL = 75 psf

SIDEWALK:

LL = 85 psf

ROADWAY:

AASHTO HS-20 LOADING

- 4. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING STRUCTURE.
- 5. TOP OF CONCRETE ELEVATIONS INDICATED THUS:

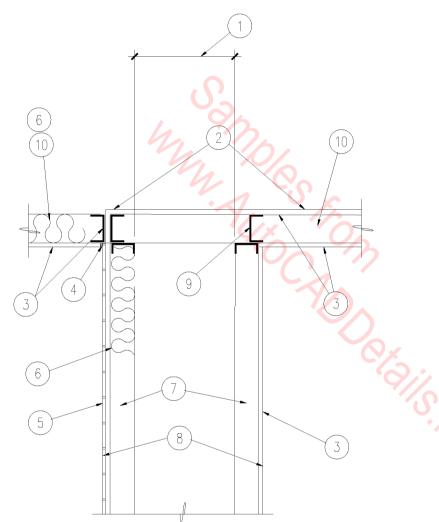
TOP OF C.I.P. SLAB

TOP OF DOUBLE TEE



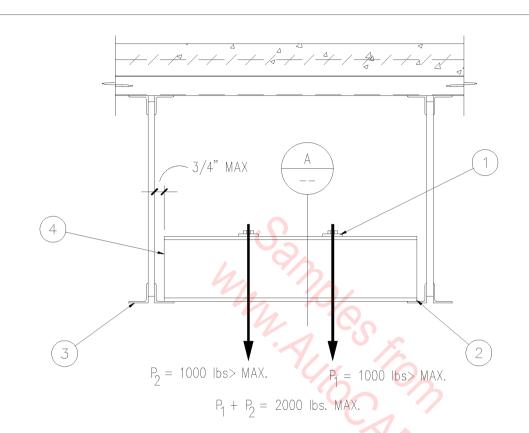
NOT TO SCALE

 $\overline{01A} - 5005$



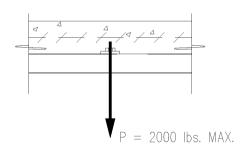
- 1. VERIFY W/ PLUMBING.
- 2. ONE HOUR CEILING
- ASSEMBLY.
 3. 5/8" TYPE "X" GYP. BD.
- 4. SÉALANT.
- 5. CERAMIC TILE ON GLASS MESH MORTAR UNIT.
- 6. R-11 SOUND BATT
- INSULATION.
 7. 3-5/8" METAL STUDS AT 16" O.C.
- 8. ONE HOUR WALL
- ASSEMBLY (PLUMBING CHASE). 9. CEILING JOIST BLOCKING.
- 10. CEILING JOIST.

13A - 3001

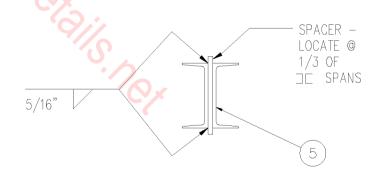


- 1. 4" X 4" X 1/4" CUT WASHER - TYP.
- 2. FIELD WELD OR CLAMP ENDS OF CHANNELS TO BEAM OR GIRDER
- 3. MAXIMUM LOAD TO ANY BEAM OR GIRDER NOT TO EXCEED 2000 LBS.
- 4. (2) C5 X 6.7 CHANNELS LOCATE AS REQUIRED FOR MECHANICAL EQUIPMENT
- 5. (2) C5 X 6.7 CHANNELS

SUSPENDED FROM GIRDERS



SUSPENDED FROM SLAB

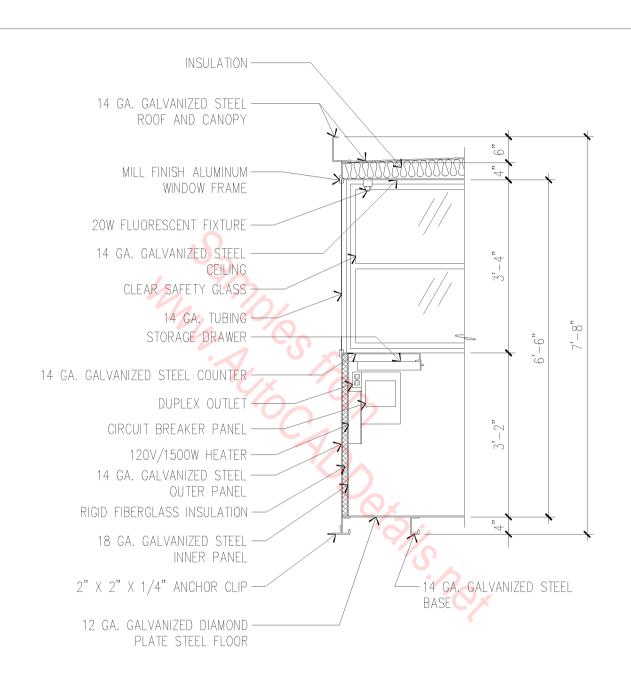


SECTION A

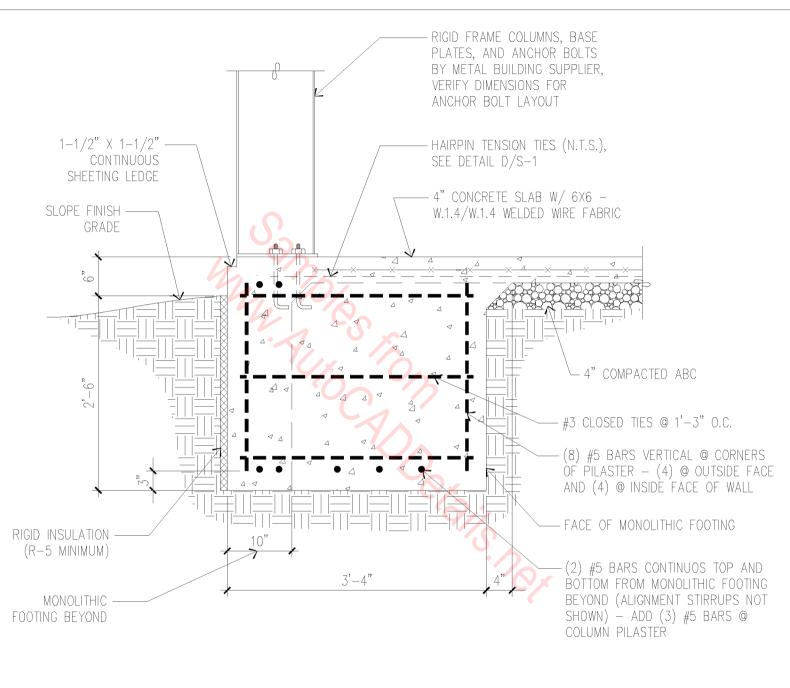
MECHANICAL HANGER

N.T.S.

13A - 3002



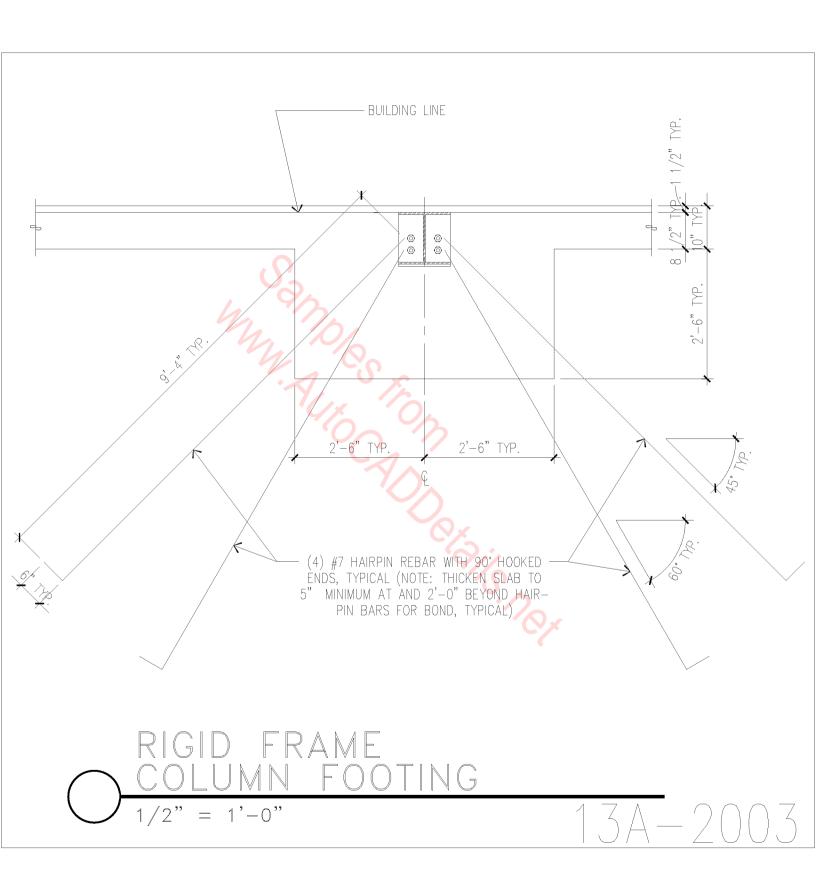
PRE-ENGINEERED SHELTER 1/2" = 1'-0" 13A-2001

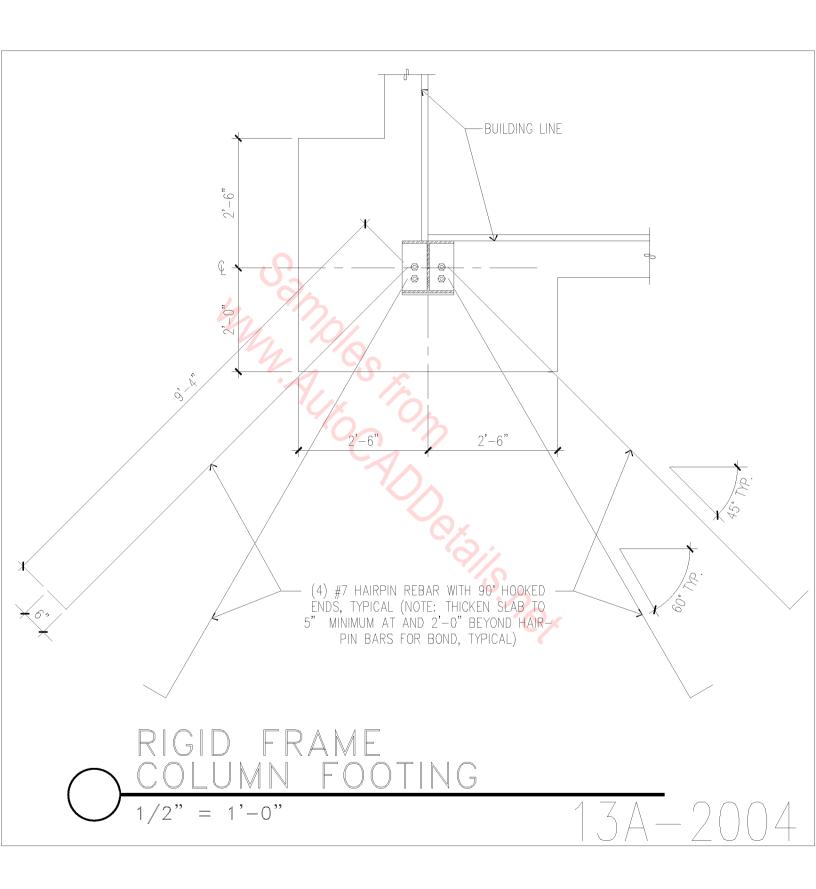


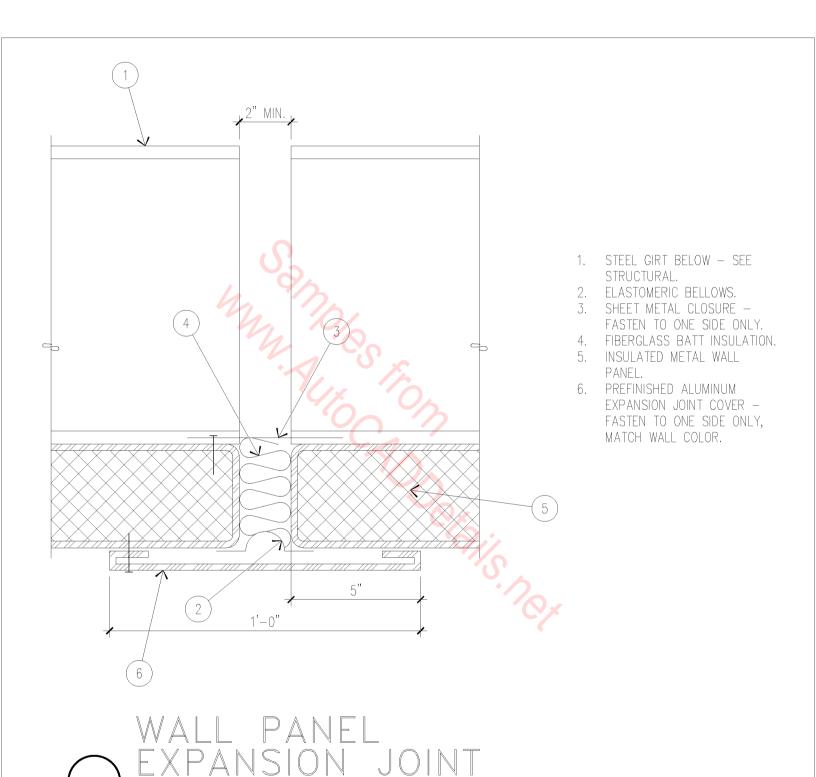
MONOLITHIC FOOTING @ RIGID FRAME COLUMN

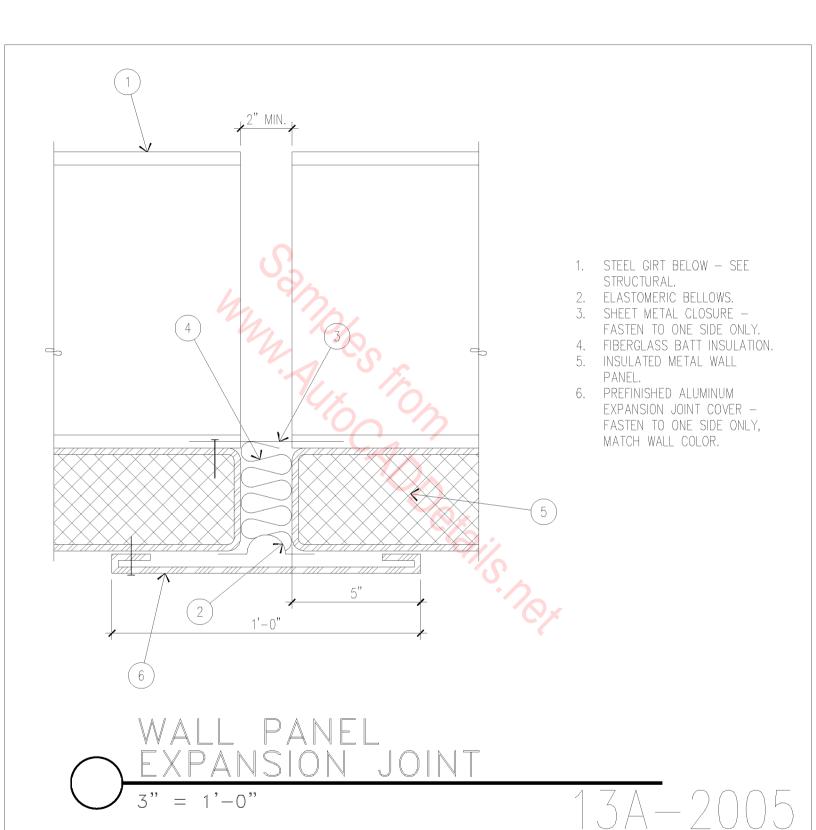
3/4" = 1'-0"

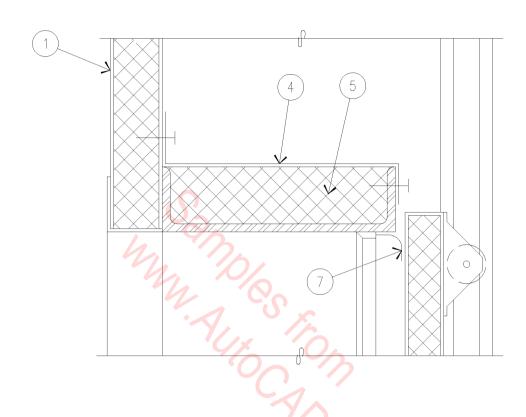
13A - 2002







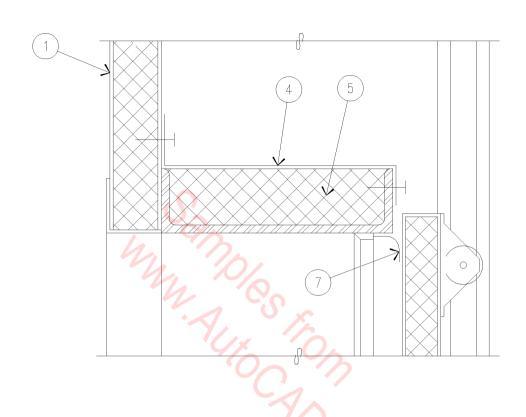




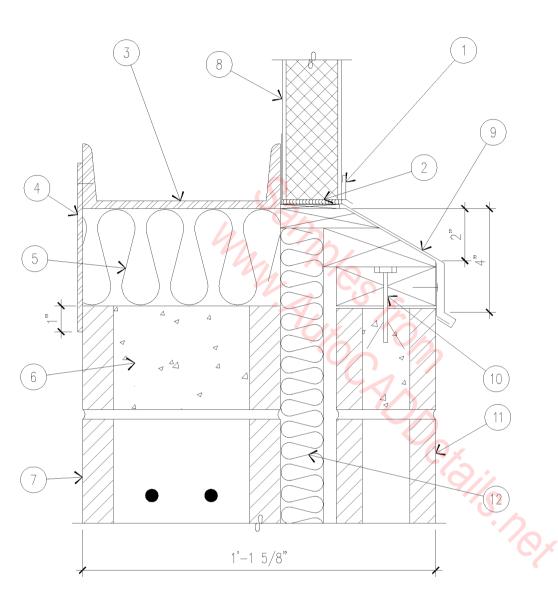
- 1. METAL WALL PANEL.
- 2. 6" Ø STEEL PIPE GUARD FILLED WITH CONCRETE.
- 3. EXPANSION JOINT BELOW.
- 4. 20 GAUGE SHEET METAL CLOSURE.
- 5. R-10 RIGID INSULATION.
- 6.
- 7. PERIMETER WEATHERSTRIPPING.
- 8. WALL PANEL JAMB TRIM.
- 9. INSULATED OVERHEAD SECTIONAL DOOR.

3" = 1'-0"

 $\overline{13}A - 2006$



- METAL WALL PANEL. 6" Ø STEEL PIPE GUARD FILLED WITH CONCRETE.
- EXPANSION JOINT BELOW. 3.
- 20 GAUGE SHEET METAL CLOSURE.
- 5. R-10 RIGID INSULATION.
- 6.
- PERIMETER WEATHERSTRIPPING. 7.
- WALL PANEL JAMB TRIM.
- INSULATED OVERHEAD SECTIONAL DOOR.

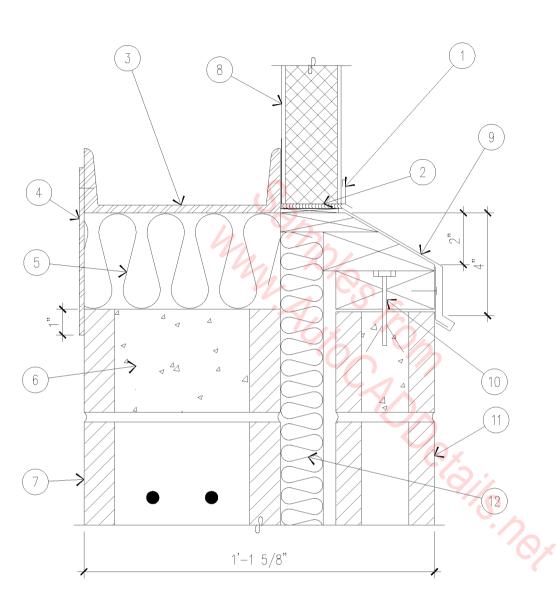


- 1. ALUMINUM BASE FLASHING WITH DRIP EDGE.
- 2. SEALANT NO. 2 OR 4.
- 3. STEEL GIRT TYPICAL POSITION WHERE WINDOWS DO NOT EXIST.
- 4. 16 GAUGE GALVANIZED SHEET METAL CLOSURE, PAINT TO MATCH C.M.U. WAINSCOT.
- 5. FILL VOID WITH FIBERGLASS INSULATION.
- 6. 8" C.M.U. BLOCK CUT TO 4", GROUTED FULL.
- 7. 8" C.M.U. WAINSCOT.
- 8. FACTORY FINISHED INSULATED METAL WALL PANEL.
- 9. ALUMINUM SILL FLASHING WITH DRIP ANCHOR WITH CONTINUOUS HOLD DOWN CLIP AT DRIP EDGE.
- 10. TREATED WOOD BLOCKING ANCHORED TO 4" C.M.U. WITH 3/8" EXPANDING BOLTS AT 16" O.C. (TYPICAL).
- 11. 4" C.M.U. WAINSCOT.
- 12. R-11 BATT INSULATION.

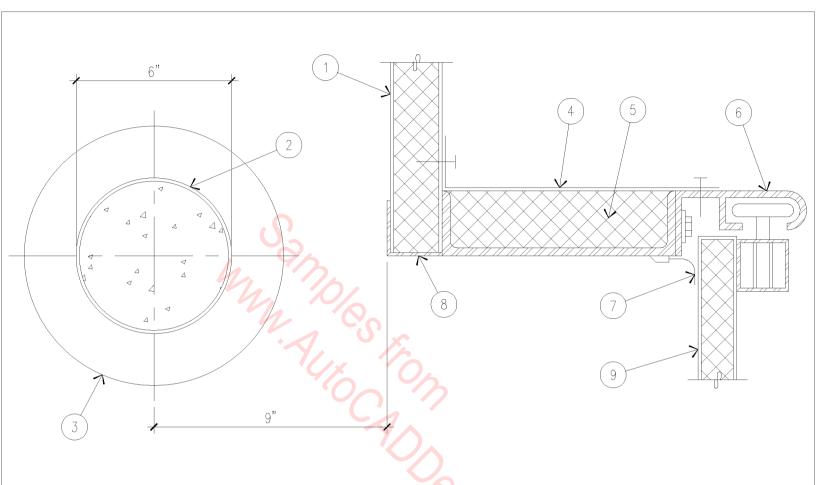
C.M.U. WALL

3" = 1'-0"

13A-2007



- ALUMINUM BASE FLASHING WITH DRIP EDGE.
- SEALANT NO. 2 OR 4.
- STEEL GIRT TYPICAL POSITION WHERE WINDOWS DO NOT EXIST.
- 16 GAUGE GALVANIZED SHEET METAL CLOSURE, PAINT TO MATCH C.M.U. WAINSCOT.
- 5. FILL VOID WITH FIBERGLASS INSULATION.
- 8" C.M.U. BLOCK CUT TO 4", 6. GROUTED FULL.
- 7. 8" C.M.U. WAINSCOT.
- FACTORY FINISHED INSULATED METAL WALL PANEL.
- ALUMINUM SILL FLASHING WITH DRIP ANCHOR WITH CONTINUOUS HOLD DOWN CLIP AT DRIP EDGE.
- 10. TREATED WOOD BLOCKING ANCHORED TO 4" C.M.U. WITH 3/8" EXPANDING BOLTS AT 16" O.C. (TYPICAL). 11. 4" C.M.U. WAINSCOT.
- 12. R-11 BATT INSULATION.

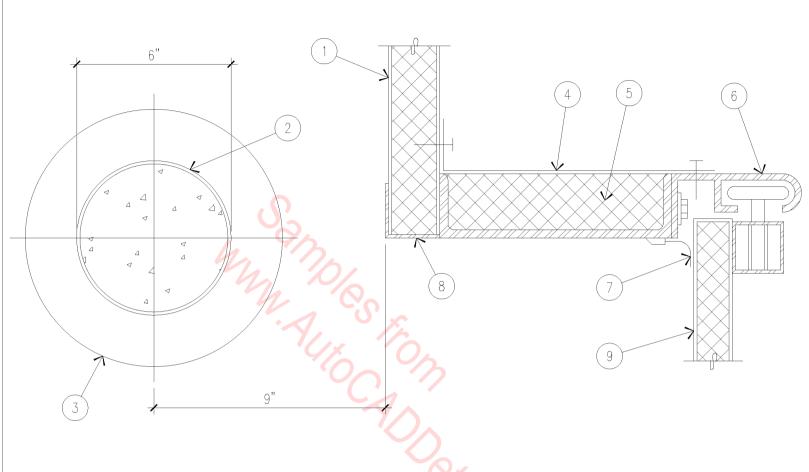


- 1. METAL WALL PANEL.
- 2. 6" Ø STEEL PIPE GUARD FILLED WITH CONCRETE.
- 3. EXPANSION JOINT BELOW.
- 4. 20 GAUGE SHEET METAL CLOSURE.
- 5. R-10 RIGID INSULATION.
- 6. GUIDE TRACK.
- 7. PERIMETER WEATHERSTRIPPING.
- 8. WALL PANEL JAMB TRIM.
- 9. INSULATED OVERHEAD SECTIONAL DOOR.

SECTIONAL DOOR JAMB

3" = 1'-0"

13A-2008

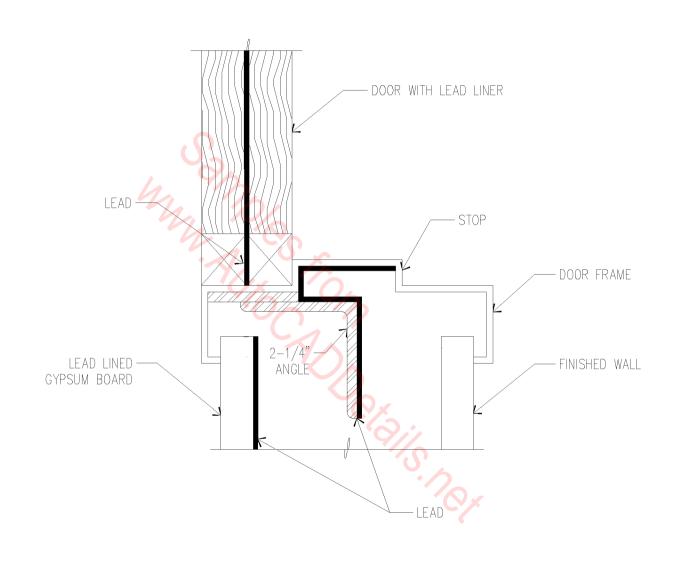


- 1. METAL WALL PANEL.
- 2. 6" Ø STEEL PIPE GUARD FILLED WITH CONCRETE.
- 3. EXPANSION JOINT BELOW.
- 4. 20 GAUGE SHEET METAL CLOSURE.
- 5. R-10 RIGID INSULATION.
- 6. GUIDE TRACK.
- 7. PERIMETER WEATHERSTRIPPING.
- 8. WALL PANEL JAMB TRIM.
- 9. INSULATED OVERHEAD SECTIONAL DOOR.

SECTIONAL DOOR JAMB

3" = 1'-0"

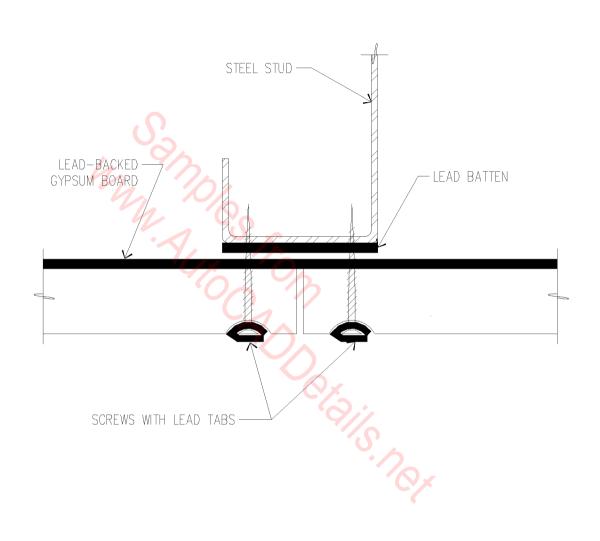
<u>13A</u>-2008



HOLLOW METAL FRAME SHOWING LEAD LINING

6" = 1'-0"

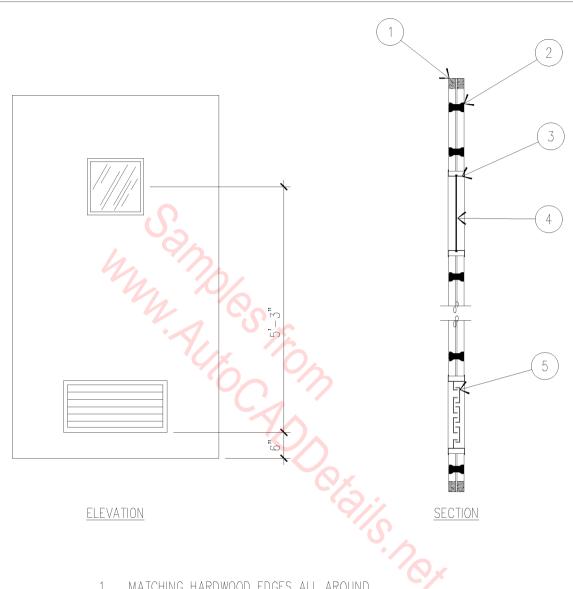
13A - 1001



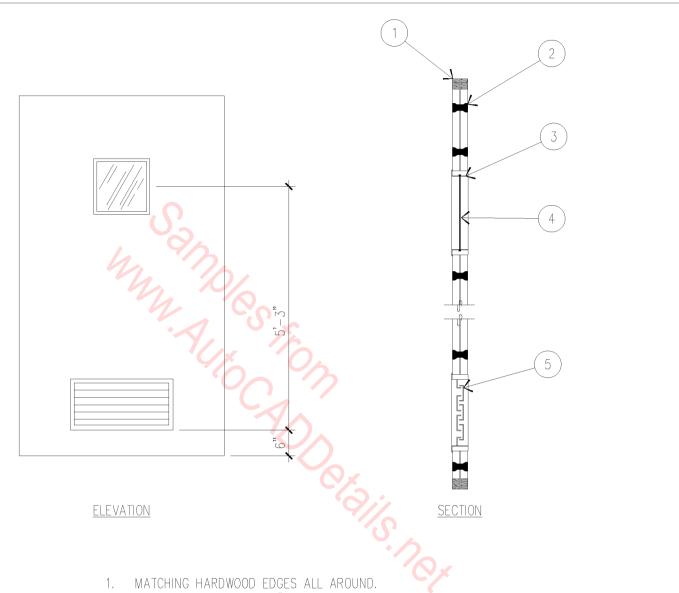
USING BATTENS & TABS TO STEEL STUDS

1" = 1"

13A-1002



- MATCHING HARDWOOD EDGES ALL AROUND.
- POURED LEAD DOWELS, 8" O.C., 1 1/2" FROM EDGES. HARDWOOD TRIM.
- LEAD GLASS EQUAL TO LEAD IN DOOR.
- LEAD LOUVER EQUAL TO LEAD IN DOOR.

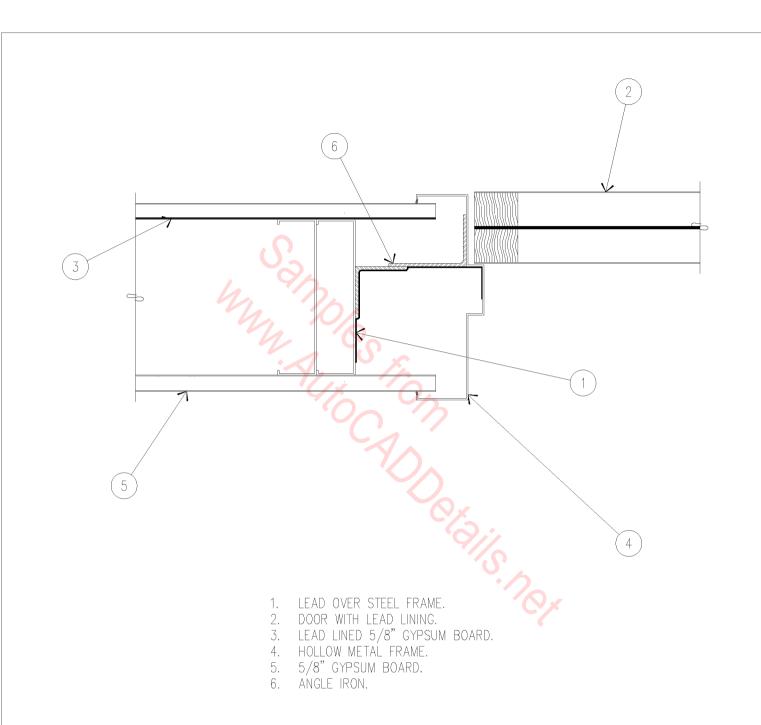


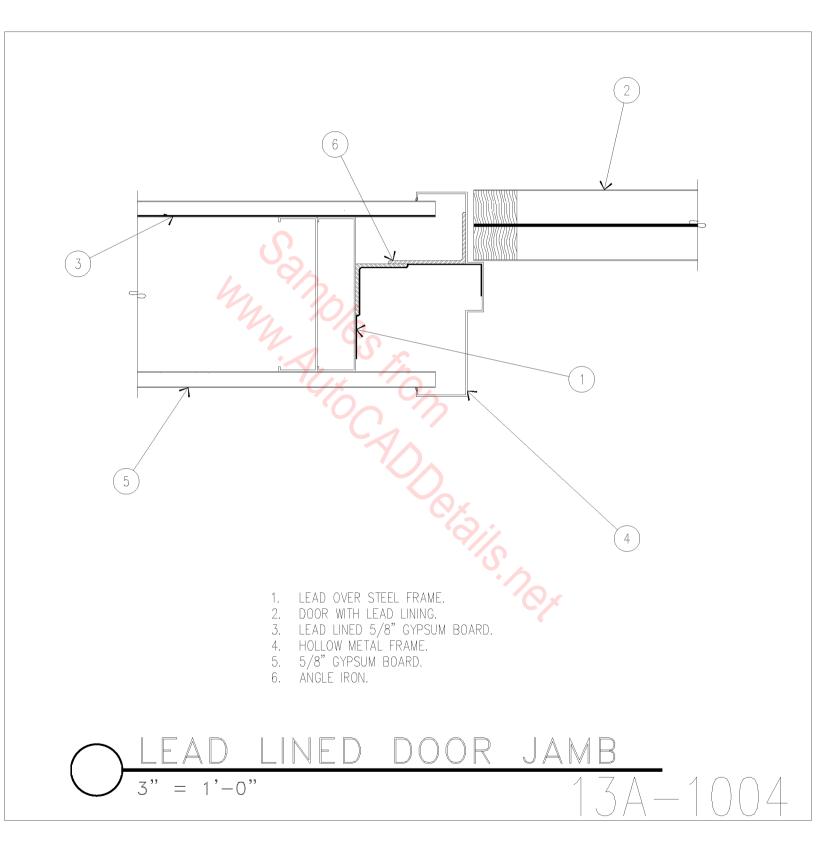
- 2. POURED LEAD DOWELS, 8" O.C., 1 1/2" FROM EDGES.
- 3. HARDWOOD TRIM.
- 4. LEAD GLASS EQUAL TO LEAD IN DOOR.
- 5. LEAD LOUVER EQUAL TO LEAD IN DOOR.

LEAD LINED DOOR

1/2" = 1'-0"

13A-1003





NOMINAL
SHEET LEAD SIZES & WEIGHTS*

ACTUAL	POUNDS	APP. THICKNESS IN INCHES	
THICKNESS	PER SQ. FT.	DECIMAL	FRACTION
	1	.0156	1/645 mm
	1 1/2	.0234	3/128
	2	.0312	1/32
	2,1/2	.0391	5/128 - 1.0 mm
——————————————————————————————————————	3	.0468	3/64
	3 1/2	.0547	7/128
	4	.0625	1/16 - 1.58 mm
	5	.0781	5/64 - 2.1 mm
	6	.0937	3/32 - 2.5 mm
	7 1/2	.1250	1/8
	10	.1563	5/32
	12	.1875	3/16
	14	.2188	7/32
	15	.2500	1/4
	20	.3333	1/3
	24	.4000	2/5
	30	.5000	1/2
	40	.6667	2/3
	60	1.0000	1"
			•

*THE WEIGHTS GIVEN APPLY TO COMMON LEAD ONLY.
OTHER TYPES OF LEAD, SUCH AS ANTIMONIAL OR HARD LEAD,
WEIGH SLIGHTLY LESS FOR A GIVEN THICKNESS.



NOMINAL
SHEET LEAD SIZES & WEIGHTS*

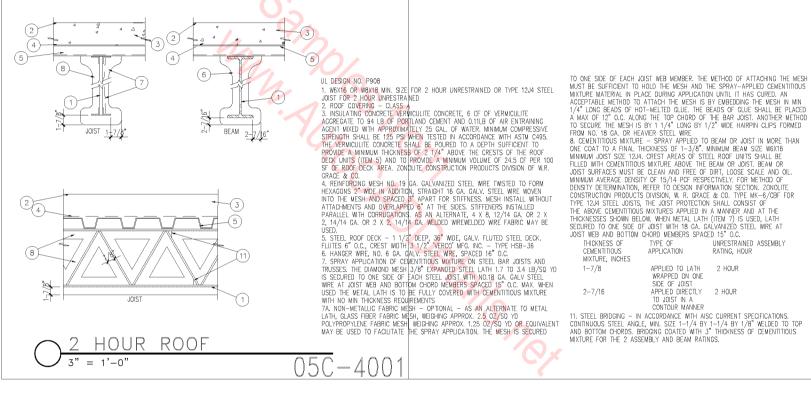
ACTUAL	POUNDS	APP. THICKNESS IN INCHES	
THICKNESS	PER SQ. FT.	DECIMAL	FRACTION
	1	.0156	1/645 mm
	1 1/2	.0234	3/128
-/2	2	.0312	1/32
- Min - 1	2,1/2	.0391	5/128 - 1.0 mm
	3	.0468	3/64
	3 1/2	.0547	7/128
	4	.0625	1/16 - 1.58 mm
	5	.0781	5/64 - 2.1 mm
	6	.0937	3/32 - 2.5 mm
	7 1/2	.1250	1/8
	10	.1563	5/32
	12	.1875	3/16
	14	.2188	7/32
	15	.2500	1/4
	20	.3333	1/3
	24	.4000	2/5
	30	.5000	1/2
	40	.6667	2/3
	60	1.0000	1"
			•

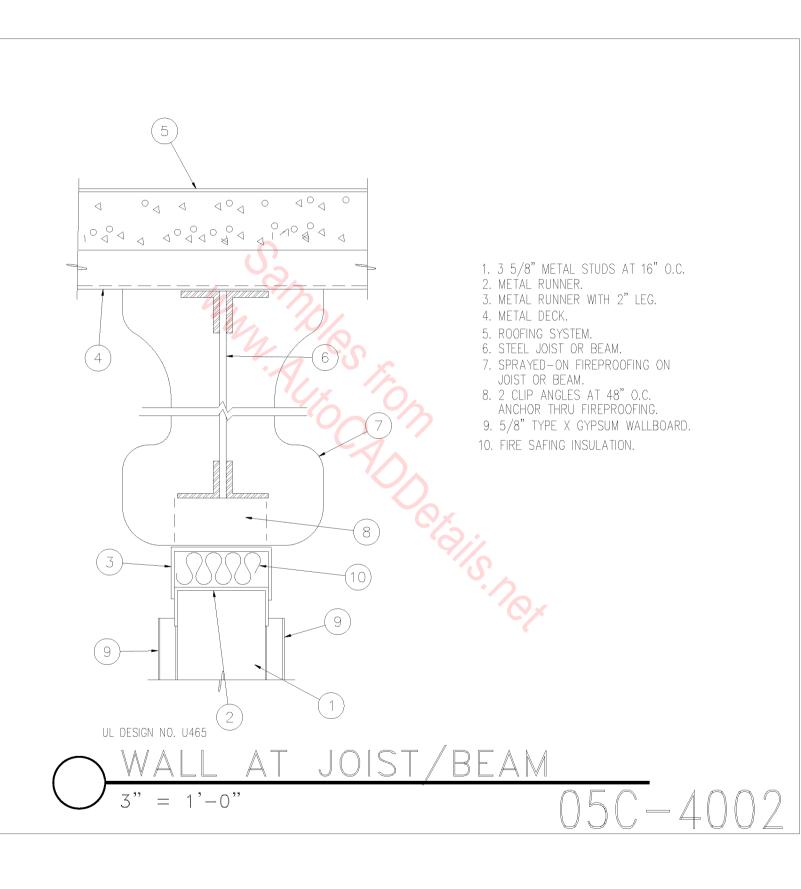
*THE WEIGHTS GIVEN APPLY TO COMMON LEAD ONLY.
OTHER TYPES OF LEAD, SUCH AS ANTIMONIAL OR HARD LEAD,
WEIGH SLIGHTLY LESS FOR A GIVEN THICKNESS.

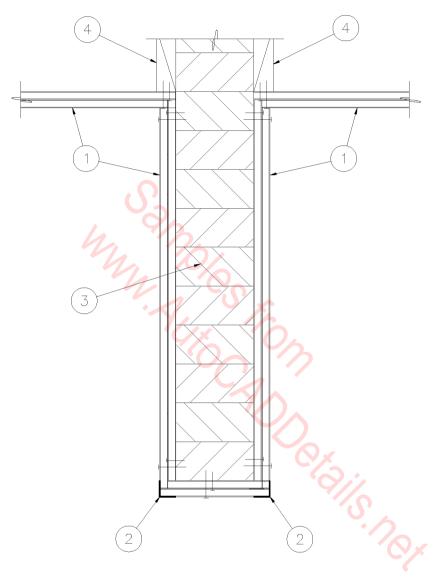


1'' = 1''

13A-1005



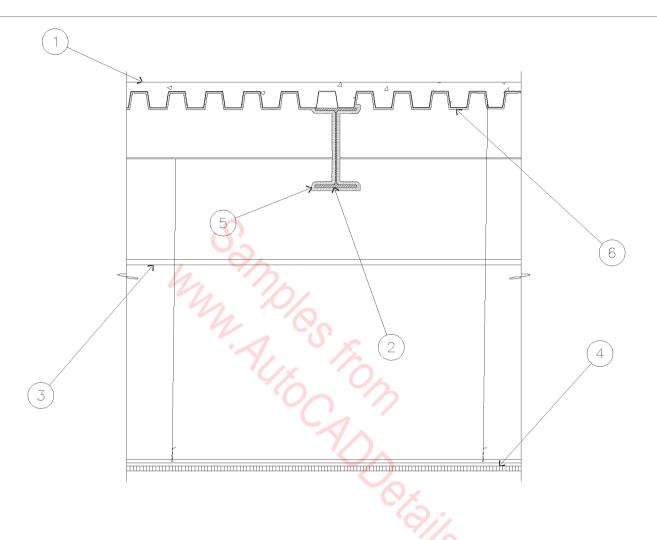




- 1. (2) LAYERS, 5/8" TYPE 'X' GYPSUM BOARD. 1 HOUR CONSTRUCTION.
- 2. METAL CORNER BEAD.
- 3. STRUCTURAL GLU-LAM BEAM.
- 4. 2X BLOCKING FIRE RETARDANT TREATED.

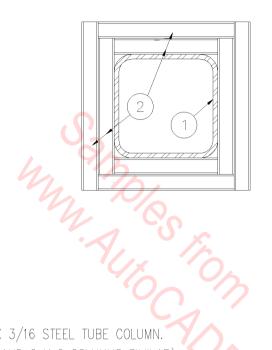
3" = 1'-0"

05C-4003



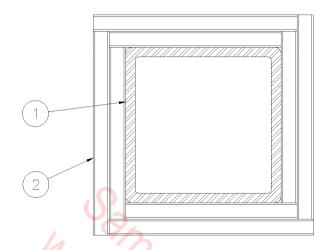
- 1. CONCRETE FLOOR OVER FLUTED STEEL DECK STEEL DECK SHALL BE WELDED TO STEEL BEAMS.
- 2. WIDE FLANGE BEAM.
- 3. BEAM BEYOND.
- 4. SUSPENDED "TEE" GRID CEILING.
 5. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/2" THICK (MINIMUM) AT STEEL BEAMS.
 6. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/4" THICK (MINIMUM) AT STEEL DECK.

U.L. DESIGN NO. N805



- 1. 4 X 4 X 3/16 STEEL TUBE COLUMN. (4 X 6 AND 6 X 6 COLUMNS SIMILAR).
- 2. 2 LAYERS OF 1/2" GYPSUM WALLBOARD ADHESIVELY SECURED TO COLUMN. AND SUCCESSIVE LAYERS, WALLBOARD APPLIED WITHOUT HORIZONTAL JOINTS. CORNER EDGES OF EACH LAYER STAGGERED. WALLBOARD LAYER BELOW OUTER LAYER SECURED TO COLUMN WITH DOUBLED NO. 18 GAUGE WIRE TIES SPACED 15" ON CENTER. EXPOSED CORNERS TAPED AND TREATED.

1 HOUR FIRE RATED COLUMN PROTECTION 1-7.1 TABLE 43-A, 1991 UNIFORM BUILDING CODE



1. TUBE STEEL COLUMN.

2. 2 LAYERS OF 5/8" TYPE 'X'

GYP. BD. ADHESIVELY APPLIED

TO COLUMN AND SUCCESSIVE LAYERS.

WALLBOARD APPLIED WITHOUT HORIZONTAL

JOINTS. CORNER EDGES OF EACH LAYER

STAGGERED. WALLBOARD LAYER BELOW

OUTER LAYER SECURED TO COLUMN

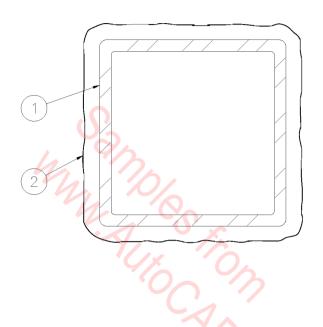
WITH DOUBLED NO. 18 GAUGE WIRE

TIES SPACES 15" O.C. EXPOSED

CORNERS TAPED & TREATED.

GENERAL NOTES:

- A. DETAIL PROVIDES ONE-HOUR FIRE RESISTIVE RATING PER ITEM 1-7.1 OF TABLE 43-A, 1988 U.B.C.
- B. AT CONTRACTORS OPTION, CEMENTITIOUS FIREPROOFING,
 MAY BE USED TO ACHIEVE ONE—HOUR FIRE RESISTANCE.

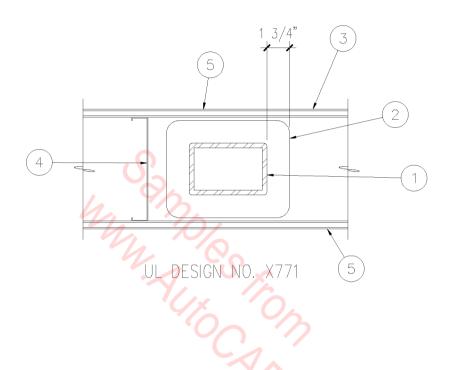


1. TUBE STEEL COLUMN

2. CEMENTITIOUS SPRAY - APPLIED FIREPROOFING: 1" THICK FOR 4X4X1/4 T.S. COLUMNS AND 9/16" THICK FOR 6X6X3/8" T.S. COLUMNS

NOTE: DETAIL PROVIDES ONE-HOUR

FIRE RESISTANCE PER U.L. DESIGN NO. X752



- 1. TUBE STEEL COLUMN.
- 2. CEMENTITIOUS MIXTURE APPLIED BY MIXING WATER AND SPRAYING IN ONE OR MORE COATS TO STEEL SURFACE WHICH MUST BE CLEAN AND FREE OF DIRT, LOOSE SCALE AND OIL. MINIMUM AVERAGE AND INDIVIDUAL DENSITY OF 15/14 PCF RESPECTIVELY. FOR METHOD OF DENSITY DETERMINATION, SEE DESIGN INFORMATION SECTION, PRECEDING THESE DESIGNS.

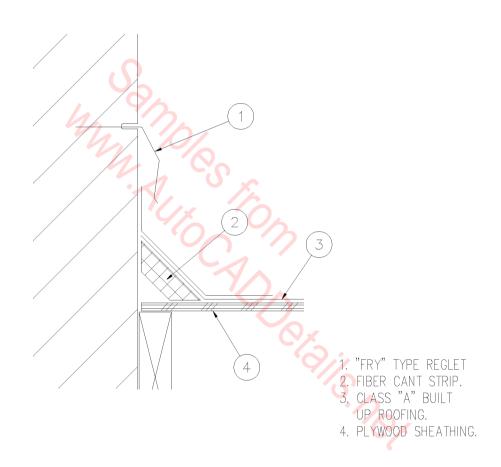
 APPLY 1-3/4 THICK UNIFORM COAT.

 ZONOLITE CONSTRUCTION PRODUCTS DIVISION, W. R. GRACE & CO. TYPE MK-6CBF.
- 3. 1 HOUR WALL.
- 4. 8" 25 GA. METAL STUDS AT 16" O.C.
- 5. 5/8" TYPE "X" GYPSUM WALLBOARD.

2 HOUR COLUMN

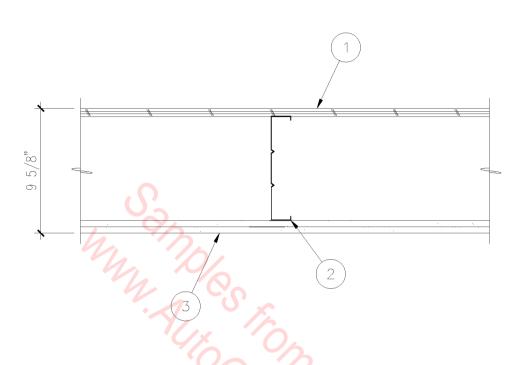
SCALE: 3" = 1'-0"

05C-3004



3" = 1'-0"

05C-1001



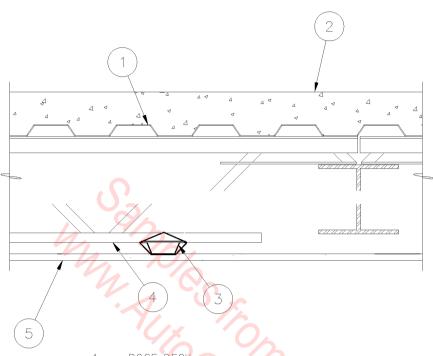
- 1. 5/8" T&G PLYWOOD FLOORING ATTACHED TO
- JOISTS WITH TYPE S-12 SCREWS.

 2. 725SJ18 STEEL JOISTS AT 24" ON CENTER.

 3. DOUBLE LAYER 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANEL CEILING.

NOTES:

- A. JOINTS UNFINISHED.
- B. DOUBLE LAYER GYPSUM PANELS AROUND BEAM.



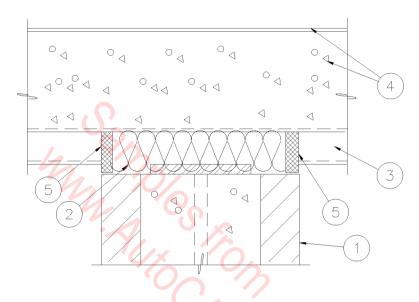
- 1.
- ROOF DECK.
 2 1/2" CONCRETE ON RIBLATH OR
 CORRUGATED STEEL DECK OVER BAR JOIST.
 METAL FUR CHANNEL AT 24" ON CENTER.
 BAR JOIST.

- 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANEL CEILING FURRED OR SUSPENDED.

NOTES:

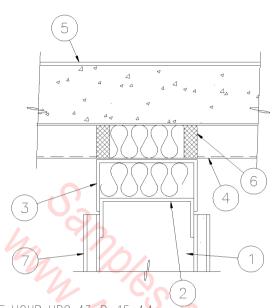
- A. PANELS ATTACHED WITH 1" TYPE "S" SCREWS AT 12" ON CENTER.
- B. JOINTS EXPOSED OR FINISHED.

950-1003



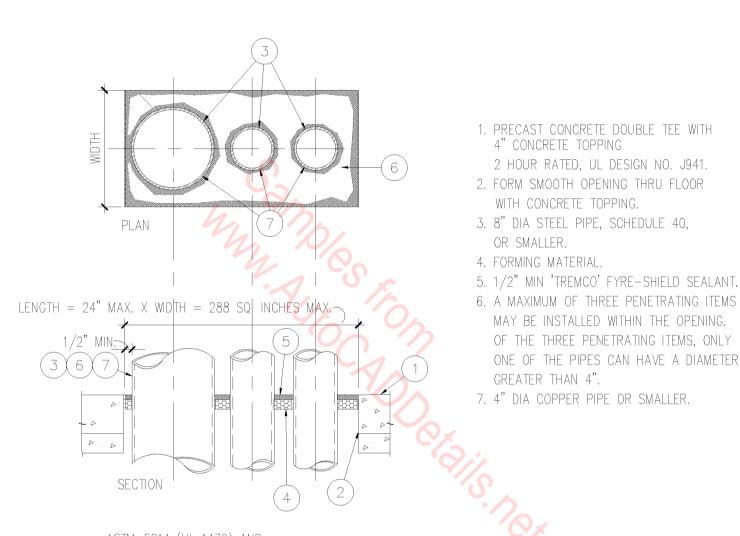
UL THROUGH-PENETRATION FIRESTOP SYSTEMS DESIGN NO. 327

- 1. RATED C.M.U. WALL.
- 2. FIRE SAFING INSULATION.
- 3. METAL DECK.
- 4. CLASS A ROOFING SYSTEM OVER LIGHT WEIGHT CONCRETE FILL.
- 5. 1/2" 'TREMCO' FYRE-SIL SEALANT.

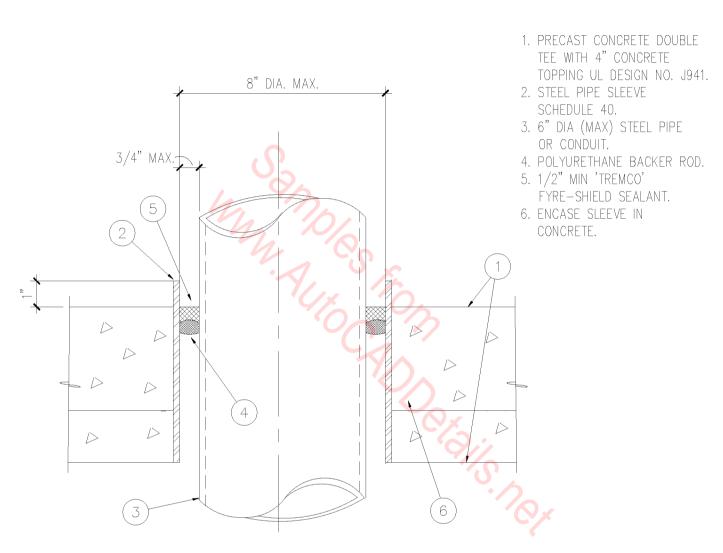


ONE HOUR UBC 43-B, 15-1.1 UL THROUGH-PENETRATION FIRESTOP SYSTEM DESIGN NO. 327

- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
 5. CLASS "A" ROOFING SYSTEM ON
- LIGHT WEIGHT CONCRETE.
 6. 1/2" 'TREMCO' FYRE—SIL SEALANT ON EACH SIDE OF FIRE SAFING MATERIAL.
 7. 5/8" TYPE "X" GYPSUM BOARD.
 8. FIRE SAFING INSULATION.

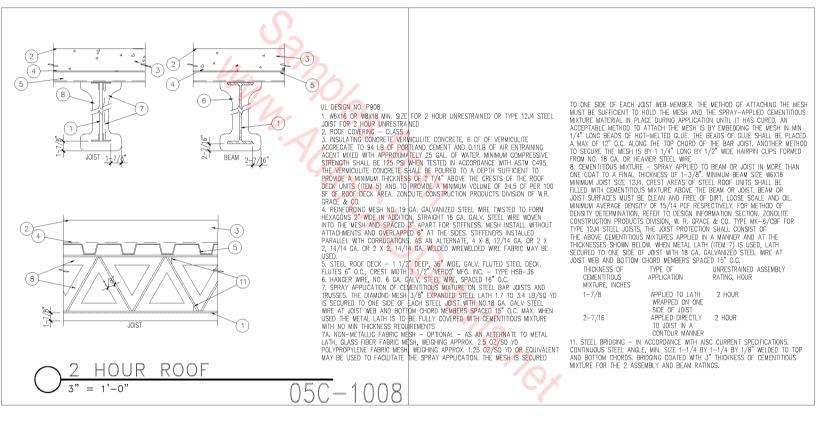


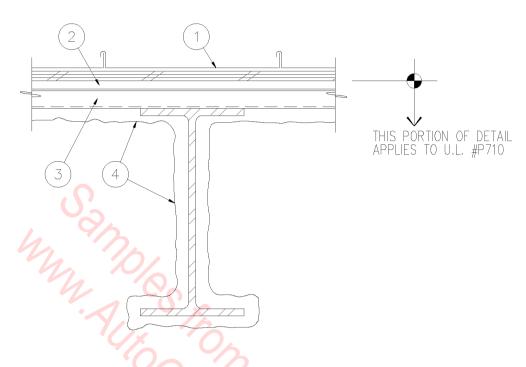
ASTM-E814 (UL 1479) AND
UL THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 326



ASTM-E814 (UL1479) AND UL THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 208

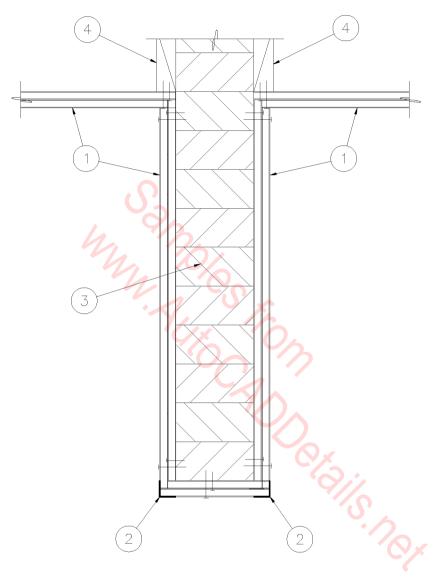
$O\frac{2 + R + LOOR PENEIRATION}{3" = 1'-0"}$





- METAL ROOF SYSTEM OVER PLYWOOD DECK. 1.
- 5/8" TYPE 'X' GYP. BOARD IN 4 FT. WIDE 2. SHEETS INSTALLED PERPENDICULAR TO STEEL ROOF DECK WITH JOINTS STAGGERED AND OCCURRING OVER THE CRESTS OF ROOF DECK. SECURE TO DECK WITH ADHESIVE BEARING U.L. CLASSIFICATION MARKING.
- 3.
- 1-1/2" MINIMUM THICKNESS STEEL ROOF DECK. CEMENTITIOUS SPRAYED-ON FIRE-PROOFING -MINIMUM 7/8" THICK OVER BOTH STEEL BEAM AND STEEL DECK.

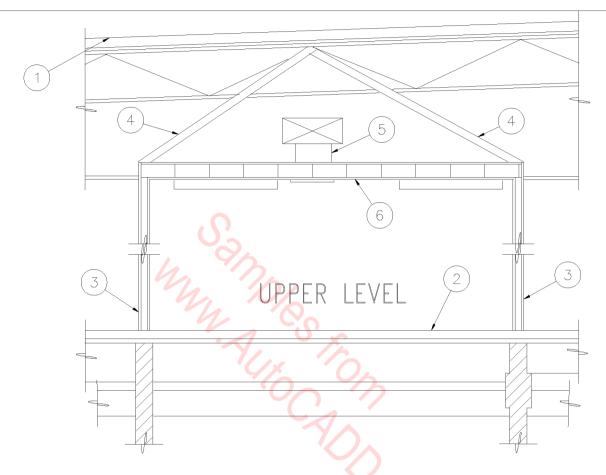
NOTE: DETAIL PROVIDES ONE-HOUR FIRE RESISTIVE RATING FOR BEAM AND DECK PER U.L. #P710.



- 1. (2) LAYERS, 5/8" TYPE 'X' GYPSUM BOARD. 1 HOUR CONSTRUCTION.
- 2. METAL CORNER BEAD.
- 3. STRUCTURAL GLU-LAM BEAM.
- 4. 2X BLOCKING FIRE RETARDANT TREATED.

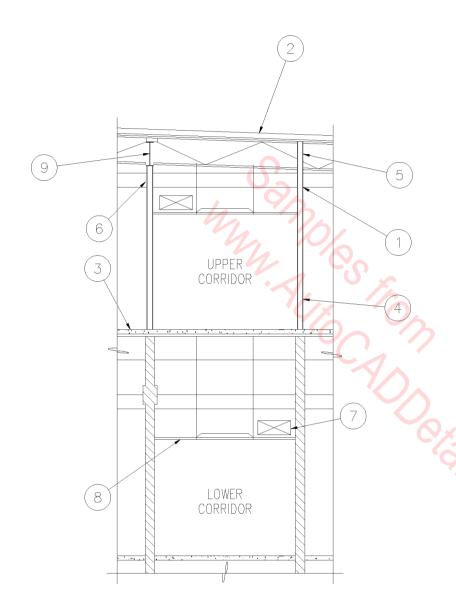
3" = 1'-0"

050-1010



- 1. 2 HOUR RATED ROOF ASSEMBLY LIGHT WEIGHT CONCRETE TOPPING ON STEEL DECK ON STEEL JOIST, UL DESIGN NO. P908.
- 2. 2 HOUR RATED FLOOR ASSEMBLY 10' CONCRETE DOUBLE TEES WITH 4" CONCRETE TOPPING, UL DESIGN NO. J941.
- 3. 1 HOUR RATED WALL, 3-5/8" METAL STUDS AT 16" O.C. WITH 5/8" TYPE X GYPSUM WALLBOARD EACH SIDE.
- 4. 3-5/8 25 GAUGE METAL STUD BRACES AT 48" O.C.
- 5. PENETRATIONS THRU THE CEILING SHALL BE PROTECTED WITH EITHER FIRE DAMPERS OR UL LISTED POKE THRU DETAILS.
- 6. 1 HOUR RATED CEILING SYSTEM, METAL STUDS AT 16" O.C. WITH 5/8" TYPE X GYPSUM WALLBOARD EACH SIDE. FIRE TAPE ATTIC SIDE OF CEILING. SEE SPECIFICATIONS FOR DEPTH OF METAL STUD REQUIRED BY SPAN. SEE DETAIL 5 ON SHEET A902 FOR ADDITIONAL ONE HOUR REQUIREMENTS

1 HOUR ENCLOSURE



- 1. FIRE STOPPING SEALANT, 'TREMCO' DYMETRIC, POLYTREMDYNE TERPOLYMER.
- 2. 2 HOUR RATED ROOF ASSEMBLY LIGHT WEIGHT CONCRETE TOPPING ON STEEL DECK ON STEEL JOIST, UL DESIGN NO. P908.
- 3. 2 HOUR RATED FLOOR ASSEMBLY 10' CONCRETE DOUBLE TEES WITH 4" CONCRETE TOPPING, UL DESIGN NO. J941.
- 4. 1 HOUR RATED WALL, 3-5/8" METAL STUDS AT 16" O.C. WITH 5/8" TYPE 'X' GYPSUM WALLBOARD EACH SIDE.
- 5. EXTEND ONE HOUR RATED WALL TO ROOF DECK.
- 6. PENETRATIONS THRU THE WALLS SHALL BE PROTECTED WITH EITHER FIRE DAMPERS OR UL LISTED POKE THRU DETAILS.
- 7. DUCTS THAT ARE A MINIMUMS OF 0.19 INCH (26 GAUGE) STEEL DO NOT REQUIRE FIRE DAMPERS WHEN THE DUCT HAS NO OPENINGS INTO THE CORRIDOR.
- 8. UNRATED SUSPENDED CEILING AND UNPROTECTED LIGHT FIXTURES.
- 9. CEMENTITIOUS FIREPROOFING APPLIED
 IN A CONTOUR MANNER AT BEAM. AT
 JOIST APPLY IN A CONTOUR MANNER TO
 CREATE 1 HR. RATING FULL HEIGHT OF MEMBER.

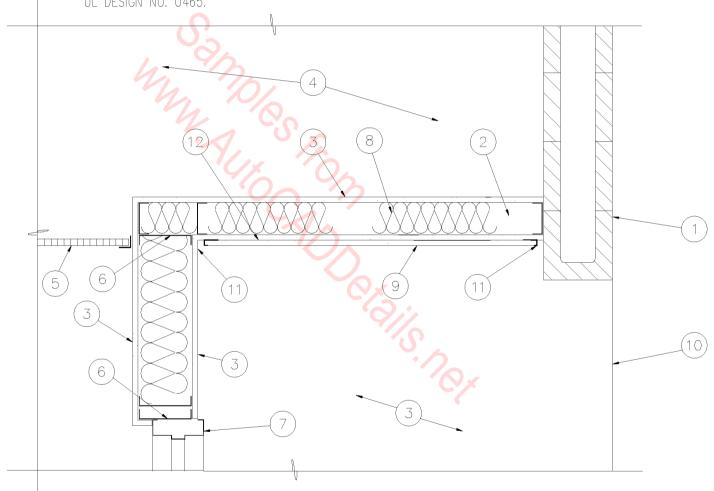
1/8" = 1'-0'

050-1012



- 2. 3-5/8" X 18 GAUGE METAL STUDS AT 16" O.C.
- 3. 5/8" TYPE 'X' GYPSUM BOARD.
- 4. 1 HOUR WALL SYSTEM.
 UL DESIGN NO. U465, WHERE OCCURS.
- 5. ACOUSTICAL CEILING.
- 6. 6" METAL STUDS AT 16" O.C. UL DESIGN NO. U465.

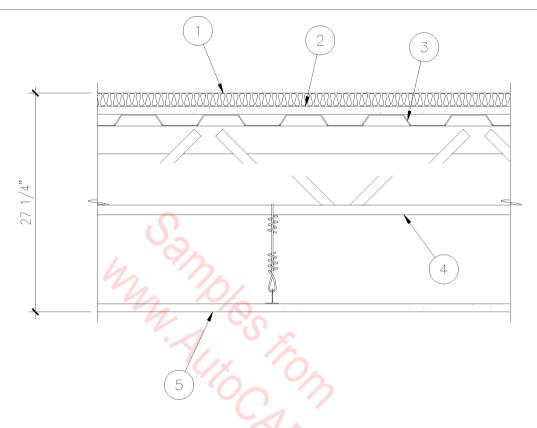
- 7. HOLLOW METAL FRAME.
- 8. FULL SOUND DEADENING INSULATION.
- 9. (2) LAYERS OF 1/2" TYPE 'X' GYPSUM BOARD.
- 10. EDGE OF WALL BEYOND.
- 11. 1/2" REVEAL.
- 12. 1 HOUR CEILING SIMILAR TO UL DESIGN NO. L524.



NOOR ALCOVE SECTION

1" = 1'-0"

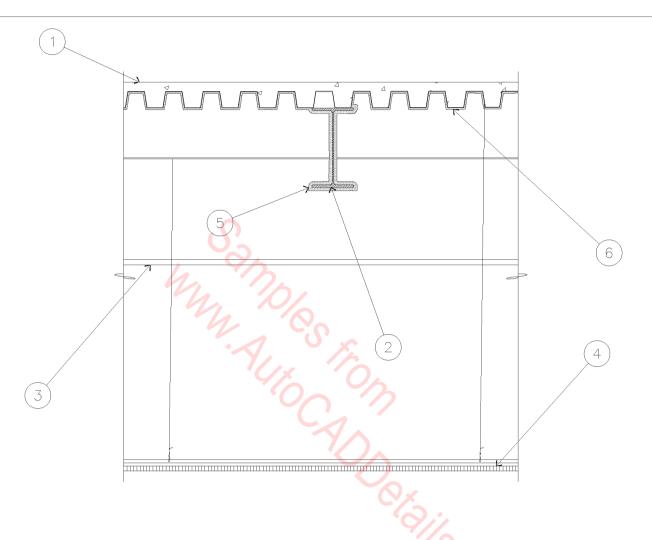
05C-1013



- MINIMUM OF 1" ROOF INSULATION.
- 5/8" GYPSUM BOARD OVER STEEL DECK. STEEL ROOF DECK.
- BAR JOIST.
- 5/8" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANEL CEILING.

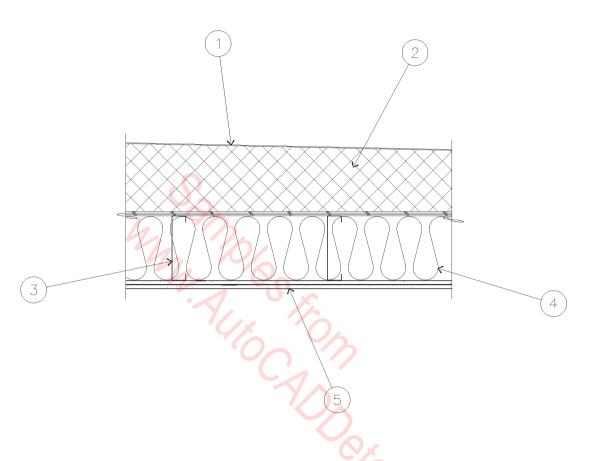
NOTES:

- A. SUSPENDED GRID WITH MAIN RUNNER AT 4'-0" ON CENTER AND CROSS TEE AT 2'-0" ON CENTER.
- B. GYPSUM PANELS SCREW ATTACHED BELOW GRID.
- C. JOINTS STAGGERED AND FINISHED.
- D. 1 HOUR RATING BASED ON ASSEMBLY WITH 1/2" THICK PANELS.



- 1. CONCRETE FLOOR OVER FLUTED STEEL DECK STEEL DECK SHALL BE WELDED TO STEEL BEAMS.
- 2. WIDE FLANGE BEAM.
- 3. BEAM BEYOND.
- 4. SUSPENDED "TEE" GRID CEILING.
 5. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/2" THICK (MINIMUM) AT STEEL BEAMS.
 6. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/4" THICK (MINIMUM) AT STEEL DECK.

U.L. DESIGN NO. N805

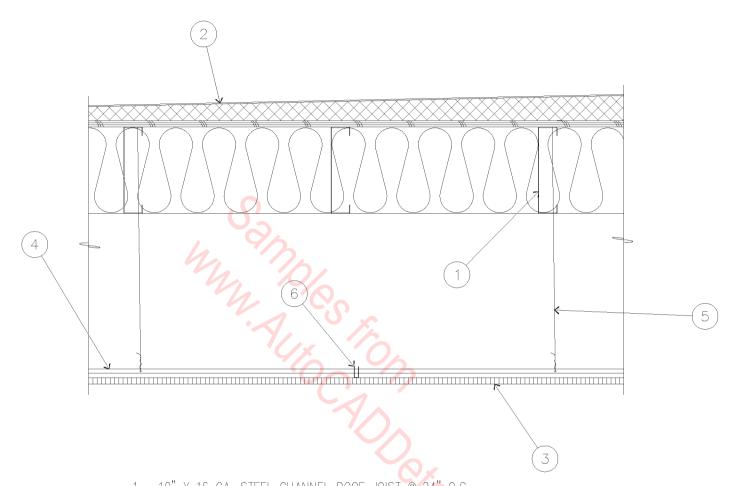


- 1. SINGLE PLY MEMBRANE ROOFING.
- 2. TAPERED RIGID INSULATION.
- 3. 10" X 16 GA. STEEL CHANNEL ROOF JOISTS.
- 4. FIBERGLASS BATT INSULATION.
- 5. 2 LAYERS 5/8" TYPE "X" GYPSUM BOARD. FIRE TAPE ALL JOINTS AND FASTENERS.

SIMILAR TO U.L. DESIGN NO. P512.

3/4" = 1'-0"

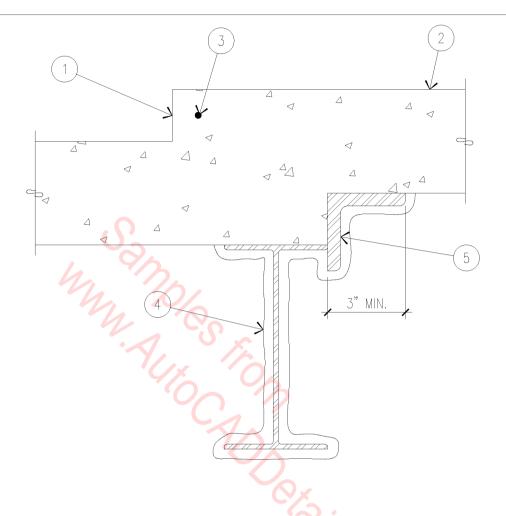
050-1016



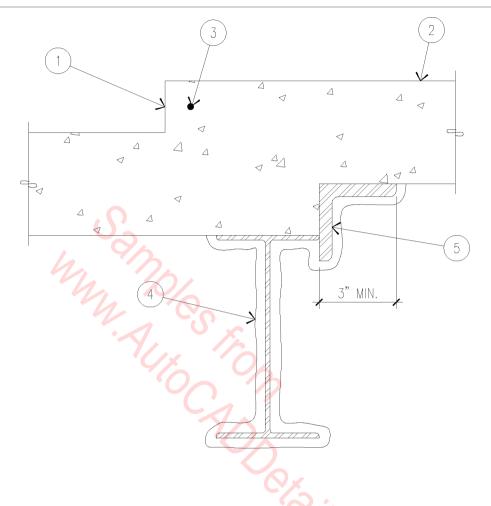
- 1. 10" X 16 GA. STEEL CHANNEL ROOF JOIST @ 24" O.C.
 2. SINGLE PLY MEMBRANE ROOF OVER TAPERED INSULATION.
- 3. 24" X 24" LAY-IN ACOUSTICAL CEILING PANELS
- 4. STEEL SUSPENDED CEILING FRAMING MEMBERS.
- 5. 12 SWG GALVANIZED HANGER WIRE SPACED @ 48" O.C. ALONG MAIN RUNNERS.
- 6. 28 MSG SPRING STEEL HOLD DOWN CLIPS @ 24" O.C.

SIMILAR TO U.L. DESIGN NO. G241

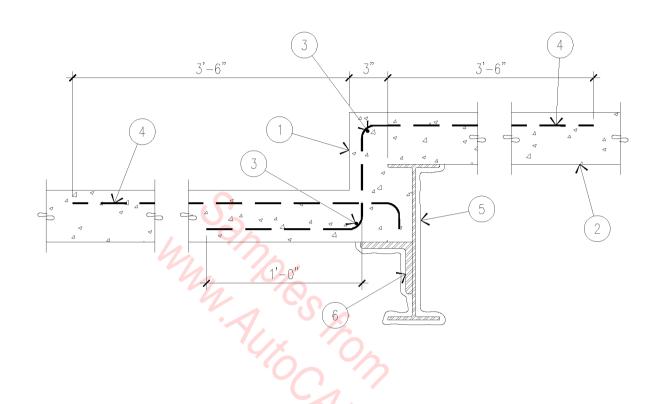
)50-1017



- 1. DEPRESSION SEE PLAN,
- 2. SLAB ON METAL DECK FOR THICKNESS, SEE PLAN.
- 3. (1) #4 REBAR, CONTINUOUS.
- 4. SPRÄYED ON FIREPROOFING.
- ANGLE WELDED TO BEAM SIZE TO FIT DEPRESSION (1/2" THICK, MINIMUM).



- 1. DEPRESSION SEE PLAN.
- 2. SLAB ON METAL DECK FOR THICKNESS, SEE PLAN.
- 3. (1) #4 REBAR, CONTINUOUS.
- 4. SPRÄYED ON FIREPROOFING.
- 5. ANGLE WELDED TO BEAM SIZE TO FIT DEPRESSION (1/2" THICK, MINIMUM).



- DEPRESSION SEE PLAN. 1.
- SLAB ON METAL DECK FOR 2.

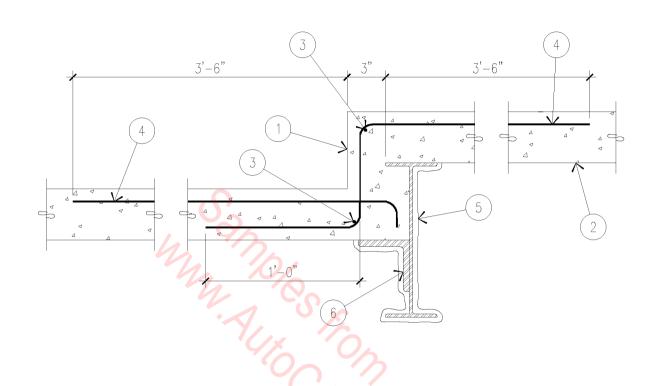
- THICKNESS, SEE PLAN.

 (1) #4 REBAR, CONTINUOUS.

 #4 REBAR AT 12" O.C., MINIMUM.

 SPRAYED ON FIREPROOFING.

 L 4" X 4" X 1/2", CONTINUOUS, WELDED TO BEAM.



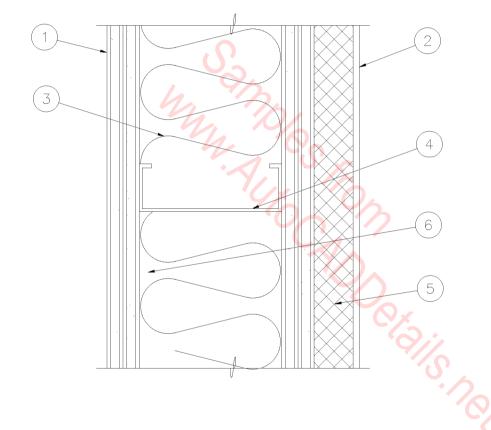
- DEPRESSION SEE PLAN. 1.
- SLAB ON METAL DECK FOR 2.
- 3.
- 5.
- THICKNESS, SEE PLAN.

 (1) #4 REBAR, CONTINUOUS.

 #4 REBAR AT 12" O.C., MINIMUM.

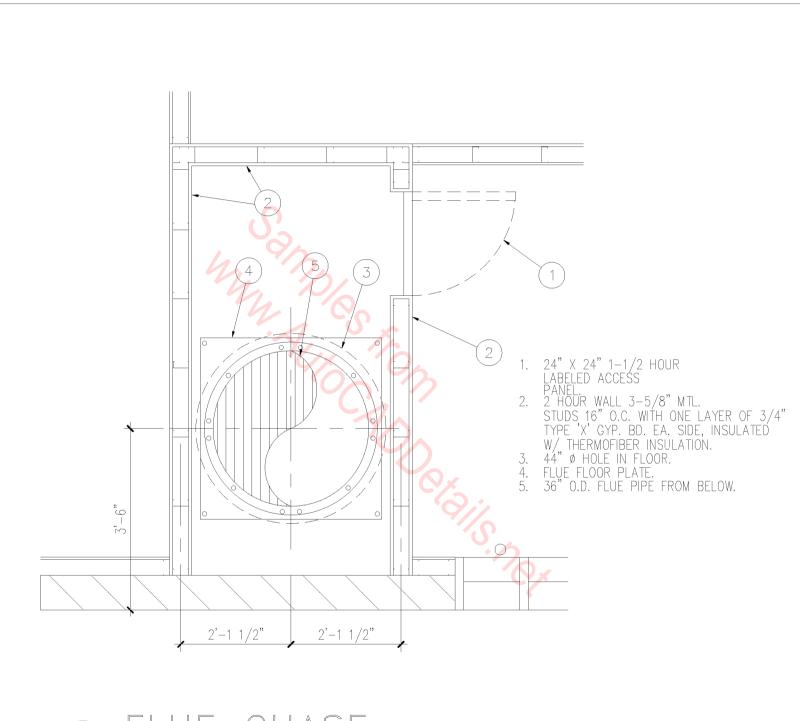
 SPRAYED ON FIREPROOFING.

 L 4" X 4" X 1/2", CONTINUOUS, WELDED TO BEAM.



- 1. (2) LAYERS 5/8" TYPE "X" GÝPSUM BOARD.
- 2. SYNTHETIC STUCCO.
 3. 5 1/2" BATT INSULATION.
 4. 6" METAL STUDS.
- 5. 1 1/2" POLYSTYRENE INSULATION BOARD MECHANICALLY FASTENED AND GLUED.
- 6. 4 MIL. POLY VAPOR BARRIER.

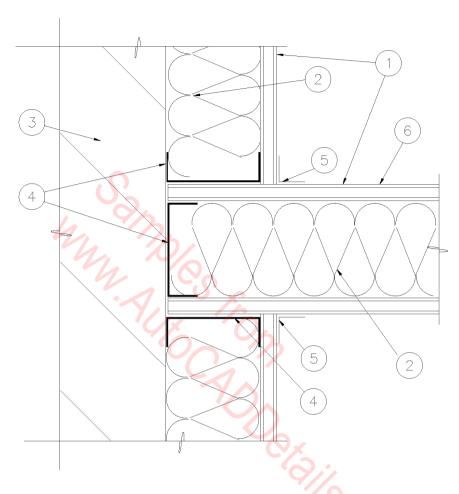
050-2001



TELUE CHASE

1" = 1'-0"

05C-2002

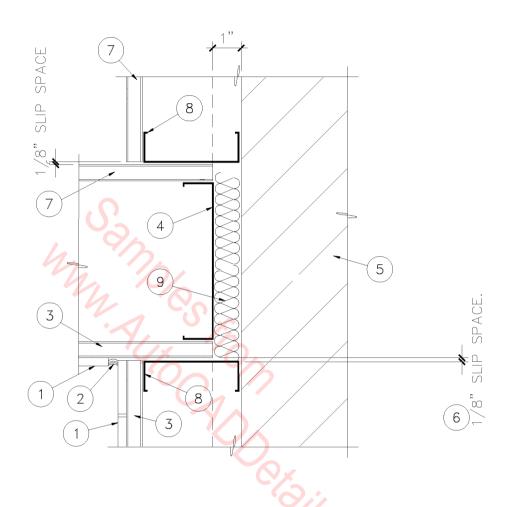


- 1. 5/8" TYPE 'X' GYPSUM BOARD.
- 2. INSULATION WHERE OCCURS.
- 3. MASONRY WALL.
- 4. 3-5/8" METAL STUDS
- 5. TAPE ALL JOINTS.
- 6. 1 HR CONSTRUCTION NON-BEARING WALL ASSEMBLY.
 UL DESIGN NO. U465.

RESISTIVE WALL AT CMU

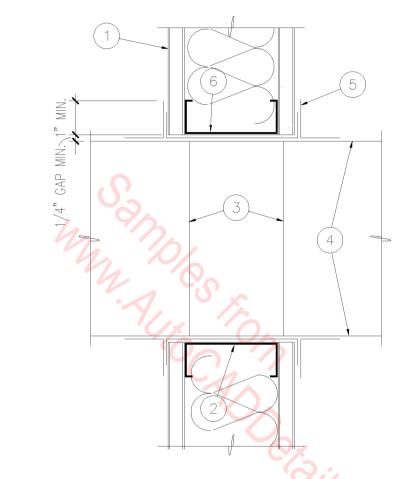
3" = 1'-0"

T CMU 05C-2003



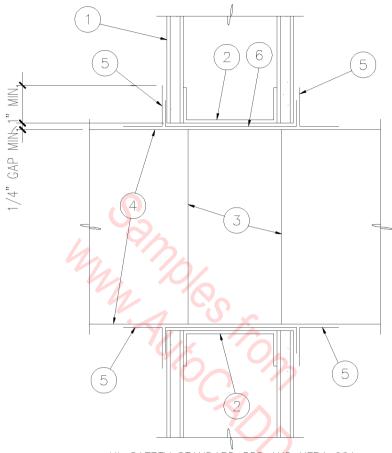
- CERAMIC TILE.

- 2. SEALANT.
 3. 5/8" MOISTURE-RESISTANT GYPSUM BOARD.
 4. METAL STUD. DO NOT ATTACH TO MASONRY WALL.
- 5. MASONRY WALL.
- 6. EXPANSION JOINT SPACE.
 7. 5/8" TYPE 'X' GYPSUM BOARD.
- 8. METAL STUDS.
 9. FIRE SAFING MATERIAL.

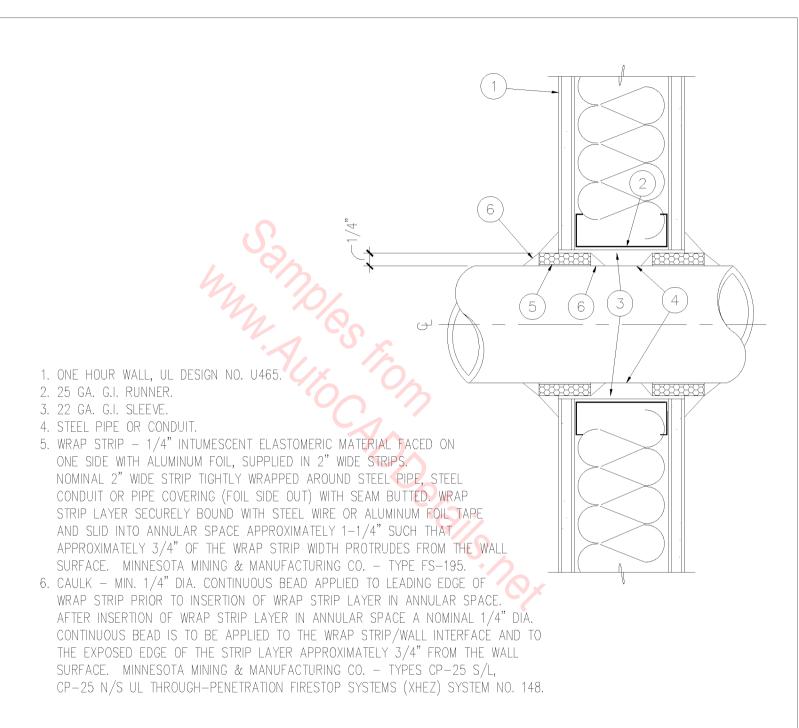


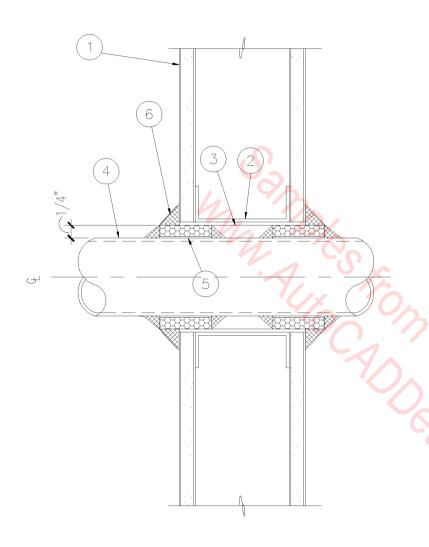
UL SAFETY STANDARD 555 AND NFPA 90A

- 1. ONE HOUR WALL UL DESIGN NO. U465.
- 2. METAL RUNNER.
- 3. FIRE OR LEAKAGE (SMOKE) DAMPER. SEE MECHANICAL FOR TYPE AND LOCATION.
- 4. DAMPER SLEEVE SHALL NOT EXTEND MORE MORE THAN 9" ON THE OPERATOR/ACTUATOR SIDE.
 5. ANGLE 1-1/2" X 1-1/2" X 14 GAGE.
- 6. 22 GA. G. I. SLEEVE.



- UL SAFETY STANDARD 555 AND NFPA 90A
- 1. ONE HOUR WALL UBC 43-B, 15-1.1.
- 2. METAL RUNNER.
- 3. FIRE OR LEAKAGE (SMOKE) DAMPER.
 SEE MECHANICAL FOR TYPE AND
 LOCATION.
- 4. DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" BEYOND THE FIRE WALL AND NOT MORE THAN 9" ON THE OPERATOR/ACTUATOR SIDE.
- 5. ANGLE 1-1/2" X 1-1/2" X 14 GAGE.
- 6. 22 GA. G. I. SLEEVE.





UL THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 148

- 1. ONE HOUR WALL, UBC 43-B, 15-1.1.
- 2. 25 GA. G.I. RUNNER.
- 3. 22 GA. G.I. SLEEVE.
- 4. STEEL PIPE OR CONDUIT.
- 5. WRAP STRIP 1/4" INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2" WIDE STRIPS. NOMINAL 2" WIDE STRIP TIGHTLY WRAPPED AROUND STEEL PIPE, STEEL CONDUIT OR PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROXIMATELY 1-1/4" SUCH THAT APPROXIMATELY 3/4" OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE.

MINNESOTA MINING & MANUFACTURING CO. TYPE FS-195.

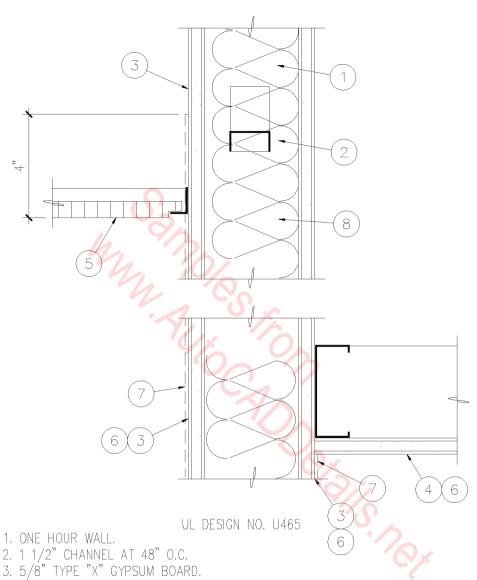
6. CAULK - MIN. 1/4" DIA. CONTINUOUS
BEAD APPLIED TO LEADING EDGE OF WRAP
STRIP PRIOR TO INSERTION OF WRAP
STRIP LAYER IN ANNULAR SPACE. AFTER
INSERTION OF WRAP STRIP LAYER IN
ANNULAR SPACE A NOMINAL 1/4" DIA.
CONTINUOUS BEAD IS TO BE APPLIED TO
THE WRAP STRIP / WALL INTERFACE AND
TO THE EXPOSED EDGE OF THE STRIP
LAYER APPROXIMATELY 3/4" FROM THE
WALL SURFACE.

MINNESOTA MINING & MANUFACTURING CO. TYPES CP-25 S/L, CP-25 N/S.

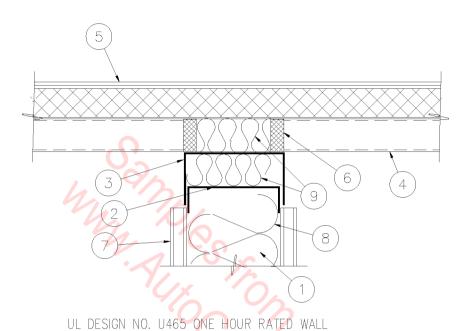
CONDUIT PENETRATION

3" = 1'-0"

05C-2008

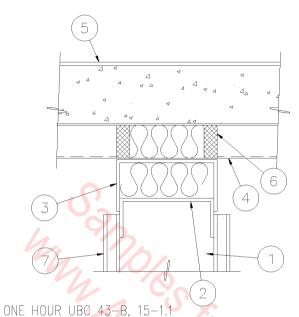


- 4. 5/8" TYPE "X" GYPSUM BOARD ON METAL STUDS (CEILING JOISTS).
- 5. LAY-IN ACOUSTICAL PANELS IN SUSPENDED TEE GRID WHERE APPLICABLE.
- 6. SEE ROOM FINISH SCHEDULE FOR FINISH.
- 7. CERAMIC TILE ON GLASS MESH MORTAR UNITS, IN LIEU OF GYPSUM BOARD WHERE APPLICABLE.
- 8. 3-5/8" METAL STUDS UNLESS NOTED OTHERWISE.



UL THROUGH-PENETRATION FIRESTOP SYSTEM DESIGN NO. 327

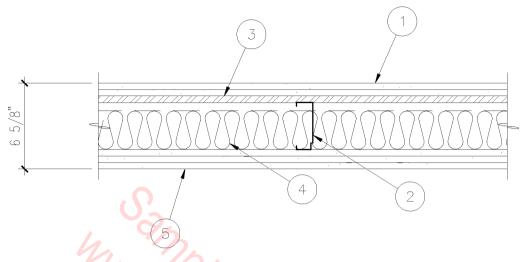
- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. ROOFING SYSTEM.
- 6. 1/2" 'TREMCO' FYRE-SIL SEALANT ON EACH SIDE OF FIRE SAFING.
- 7. 5/8" TYPE "X" GYPSUM BOARD.
- 8. R-11 3 1/2" BATT SOUND INSULATION WHERE APPLICABLE.
- 9. FIRE SAFING INSULATION.



UL THROUGH-PENETRATION FIRESTOP SYSTEM DESIGN NO. 327

- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
 5. CLASS "A" ROOFING SYSTEM ON
- LIGHT WEIGHT CONCRETE.

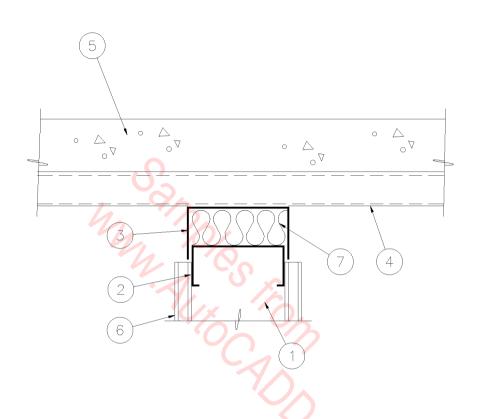
 6. 1/2" 'TREMCO' FYRE—SIL SEALANT ON EACH SIDE OF FIRE SAFING MATERIAL.
 7. 5/8" TYPE "X" GYPSUM BOARD.
 8. FIRE SAFING INSULATION.



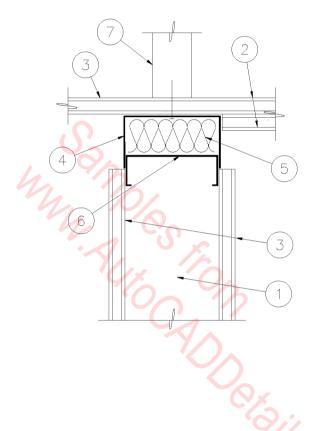
TWO LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS SCREW ATTACHED TO CHANNEL.

- 2. 362SJ20 METAL STUDS AT 24" ON CENTER.
- 3. RC-1 CHANNEL ONE SIDE SPACED AT 24" SCREW ATTACHED TO STUDS.
- 4. 3" THERMAFIBER SAFB.
- 5. THREE LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS SCREW ATTACHED TO STUDS.

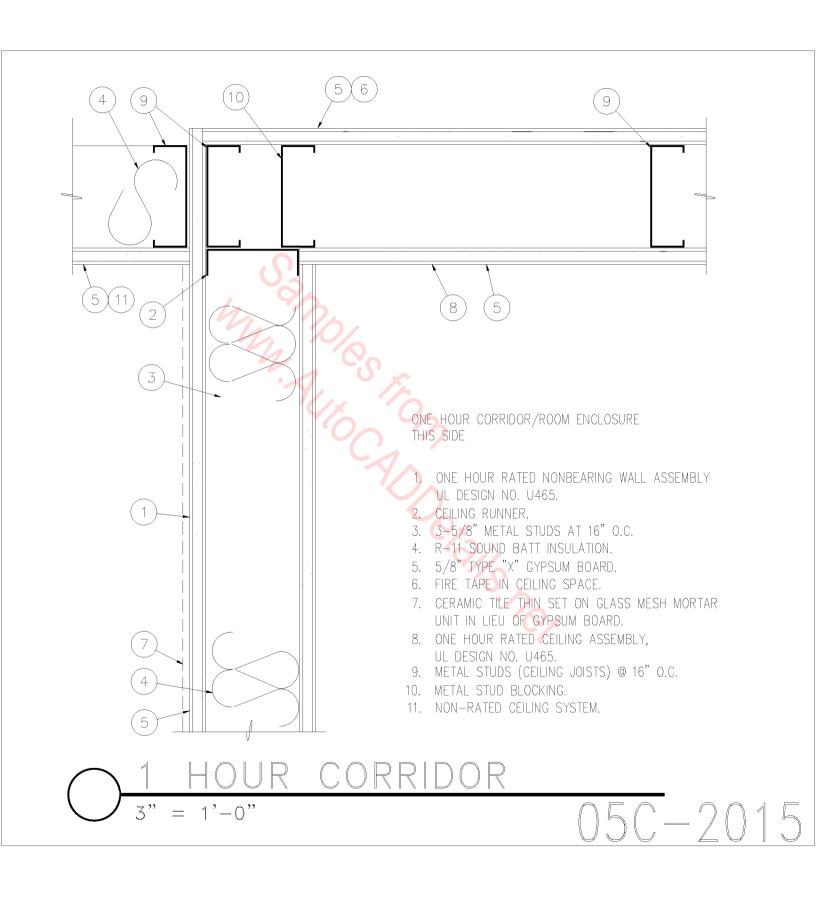
- A. PANELS APPLIED VERTICALLY WITH JOINTS STAGGERED.
- B. JOINTS FINISHED.
- C. CAULK PERIMETER.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.
- E. ASSEMBLIES WITH RC-1 RESILIENT CHANNEL REQUIRE LATERAL BRACING AND OFFER ESTIMATED FIRE RATING.

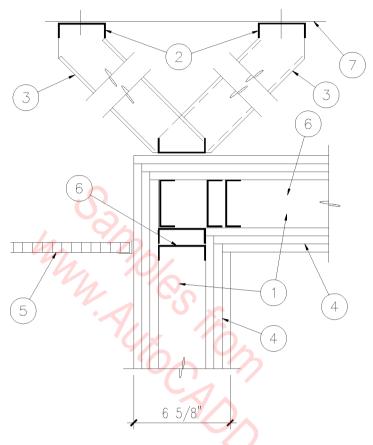


- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. LIGHT WEIGHT CONCRETE.
- 6. 5/8" TYPE "X" GYPSUM BOARD.
 7. FIRE SAFING MATERIAL.

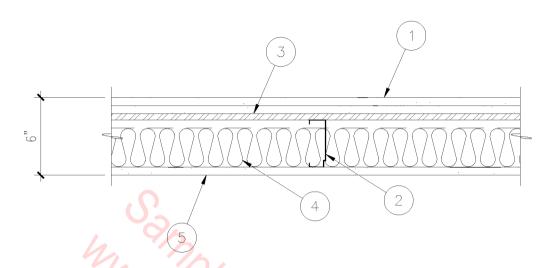


- 1. 1 HOUR PARTITION. UL DESIGN NO. U465.
- 2. (2) LAYERS, 5/8" TYPE 'X' GYPSUM BOARD.
- 3. 5/8" TYPE 'X' GYPSUM BOARD.
- 4. METAL RUNNER WITH 2" LEG.
- 5. FIRE SAFING INSULATION.
- 6. METAL RUNNER.
- 7. JOIST.





- 1. 3 HOUR FIRE ASSEMBLY. UL DESIGN NO. U425.
- 2. ANCHOR RUNNER TO STRUCTURE ABOVE.
- 3. 3-5/8" METAL STUD BRACING AT 48" O.C. STAGGERED.
- 4. (3) LAYERS OF 1/2" TYPE 'X' GYPSUM BOARD BOTH SIDES.
- 5. LAY-IN ACOUSTICAL CEILING.
- 6. 3-5/8" METAL STUDS.
- 7. STRUCTURE ABOVE.



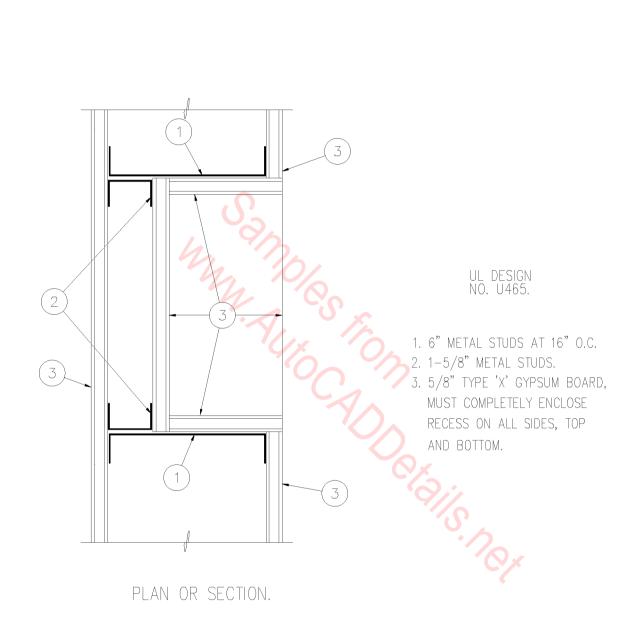
TWO LAYERS 5/8" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS SCREW ATTACHED TO CHANNEL.

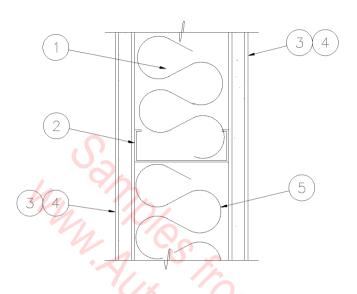
2. 362SJ20 METAL STUDS AT 24" ON CENTER.

3. RC-1 CHANNEL ONE SIDE SPACED AT 24"

- SCREW ATTACHED TO STUDS.
- 3" THERMAFIBER SAFB.
 ONE LAYER 5/8" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANEL SCREW ATTACHED TO STUDS.

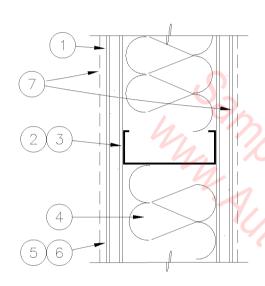
- A. PANELS APPLIED VERTICALLY WITH JOINTS STAGGERED.
- B. JOINTS FINISHED.
- C. CAULK PERIMETER.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.
- E. ASSEMBLIES WITH RC-1 RESILIENT CHANNEL REQUIRE LATERAL BRACING AND OFFER ESTIMATED FIRE RATING.





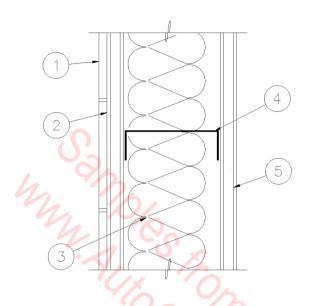
TWO HOUR RATED NONBEARING WALL ASSEMBLY, UL DESIGN NO. U491

- 1. FLOOR & CEILING RUNNER (NOT SHOWN) 25 GA. WITH 1" HIGH RETURN LEGS, 3-5/8" WIDE. ANCHOR TO FLOOR AND CEILING WITH FASTENERS AT 24" O.C.
- 2. 3-5/8" WIDE X 1-5/16 LEGS, 3/8" RETURN X 25 GA. METAL STUDS AT 16" O.C.
- 3. 3/4" TYPE "X" GYPSUM BOARD WITH 1" TYPE "S" NO. 6 DRYWALL SCREWS TO EACH STUD. SELF—TAPPING STEEL SCREWS AT 8" O.C. ALONG EDGES OF BOARD AND 12" O.C. IN THE FIELD. JOINTS STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
- 4. JOINT TAPE AND COMPOUND PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS IN CEILING SPACE, ADDITIONAL COMPOUND AND TEXTURE REQUIRED IN EXPOSED AREAS.
- 5. 3" 'THERMAFIBER SAFB' BATT INSULATION.



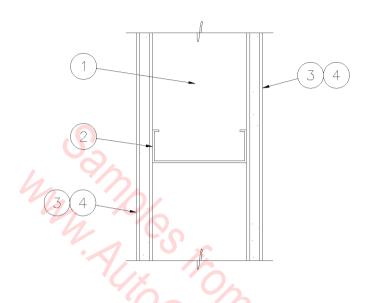
UL DESIGN NO. U465

- 1. ONE HOUR NONBEARING WALL ASSEMBLY UL DESIGN NO. U465.
- 2. FLOOR & CEILING RUNNER (NOT SHOWN) 25 GA. WITH 1" HIGH RETURN LEGS, 3-5/8" WIDE. ANCHOR TO FLOOR AND CEILING WITH FASTENERS AT 24" O.C.
- 3. 3-5/8" WIDE X 1-5/16 LEGS, 3/8" RETURN X 25 GA. METAL STUDS AT 16" O.C. 1-5/16" LEGS, 3/8" RETURN.
- 4. R-11, 3-1/2" SOUND BATT INSULATION, WHERE APPLICABLE.
- 5. 5/8" TYPE "X" GYPSUM BOARD WITH 1" TYPE "S" SELF-TAPPING STEEL SCREWS AT 8" O.C. ALONG EDGES OF BOARD AND 12" O.C. IN THE FIELD. JOINTS STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
- 6. JOINT TAPE AND COMPOUND PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS IN CEILING SPACE (FIRE TAPE), ADDITIONAL COMPOUND AND TEXTURE REQUIRED IN EXPOSED AREAS.
- 7. CERAMIC TILE ON GLASS MESH MORTAR UNIT IN LIEU OF GYPSUM BOARD WHERE APPLICABLE.



UL DESIGN NO. U445 SIMILAR

- 1. CERAMIC TILE.
- 2. 1/2" CEMENT BOARD ATTACHED TO STUDS WITH 1-5/8" LONG TYPE 'S' CORROSION RESISTANT SCREWS AT 6" O.C. TAPE JOINTS WITH GLASS FIBER MESH TAPE.
- 3. BATT INSULATION.
- 4. 3-5/8" METAL STUDS AT 16" O.C.
- 5. 5/8" TYPE 'X' GYPSUM BOARD ATTACHED TO STUDS WITH 1" LONG SELF-TAPPING SCREWS AT 8" O.C.



ONE HOUR RATED NONBEARING WALL ASSEMBLY, UBC 43-B, 15-1.1

- 1. FLOOR & CEILING RUNNER (NOT SHOWN) 25 GA. WITH 1" HIGH RETURN LEGS, 3-5/8" WIDE. ANCHOR TO FLOOR AND CEILING WITH FASTENERS AT 24" O.C.
- 2. 3-5/8" WIDE X 1-5/16 LEGS, 3/8" RETURN X 25 GA. METAL STUDS AT 16" O.C.
- 3. 5/8" TYPE X GYPSUM BOARD WITH 1" TYPE S NO. 6 DRYWALL SCREWS TO EACH STUD. SELF-TAPPING STEEL SCREWS AT 8" O.C. ALONG EDGES OF BOARD AND 12" O.C. IN THE FIELD. JOINTS STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
- 4. JOINT TAPE AND COMPOUND PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS IN CEILING SPACE, ADDITIONAL COMPOUND AND TEXTURE REQUIRED IN EXPOSED AREAS, SEE SPECIFICATIONS AND ROOM FINISH SCHEDULE.

FIRE-RESISTIVE CONSTRUCTION

- 1. 'J' SHAPED RUNNER CHANNEL, 2-1/2" WIDE W/ UNEQUAL LEGS OF 1" AND 2", MIN. 24 GA. STEEL. RUNNER POSITIONED W/ SHORT LEG TOWARD FINISHED SIDE OF WALL. RUNNERS ATTACHED TO STRUCTURAL SUPPORT OR ADJACENT RUNNERS W/ STEEL FASTENERS LOCATED NOT GREATER THAN 2" FROM ENDS AND NOT GREATER THAN 24" O.C.
- 2. 2-1/2" WIDE 25 GA. STEEL "C-H" STUDS. MAX. 24" O.C.
- 3. 1" THICK GYP. BD. LINER PANELS BEARING U.L. CLASSIFICATION

 MARKING. EDGES INSERTED IN 'H' SHAPED SECTION OF 'C-H'

 STUDS W/ FREE END OF PANEL ATTACHED TO LONG LEG OF J-RUNNER

 W/ 1-5/8" LONG TYPE "S" SELF-DRILLING STEEL SCREWS @ 12" O.C. MAX.
- 4. TWO LAYERS 5/8" TYPE "X" GYP. BD. BASE LAYER ATTACHED TO STUDS W/ 1" LONG TYPE S SELF-DRILLING STEEL SCREWS @ 24" O.C. ALONG THE EDGES AND IN THE FIELD OF THE BOARDS. FACE LAYER ATTACHED TO STUDS AND 'J' RUNNERS W/ 1-5/8" LONG TYPE S SELF-DRILLING STEEL SCREWS AT 12" O.C. ALONG THE EDGES AND IN THE FIELD OF THE BOARDS. STAGGER SCREWS AND PANEL JOINTS BETWEEN INNER AND OUTER LAYER.

GENERAL NOTE

ALL PENETRATIONS OF FIRE—RESISTANT WALLS

SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS

THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR

"THROUGH—PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR

SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE

MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE

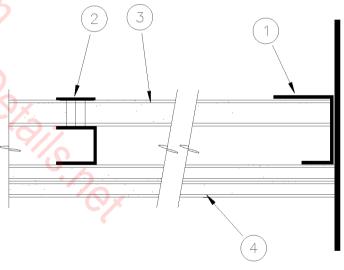
CONFORMANCE TO THE UL LISTING TO THE ARCHITECT, AND SUCH

DRAWINGS SHALL BE AVAILABLE TO THE LOCAL BUILDING

INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH

PENETRATION, WITH ALL VARIABLES DEFINED.

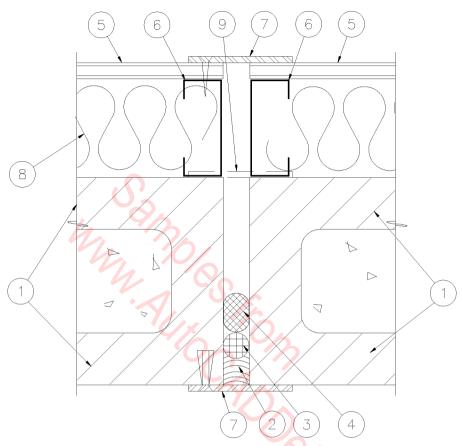
NOTE: DETAIL PROVIDES 2-HR FIRE RESISTIVE SHAFT WALL ASSEMBLY PER U.L. DESIGN NO. U438



2 HOUR SHAFT WALL

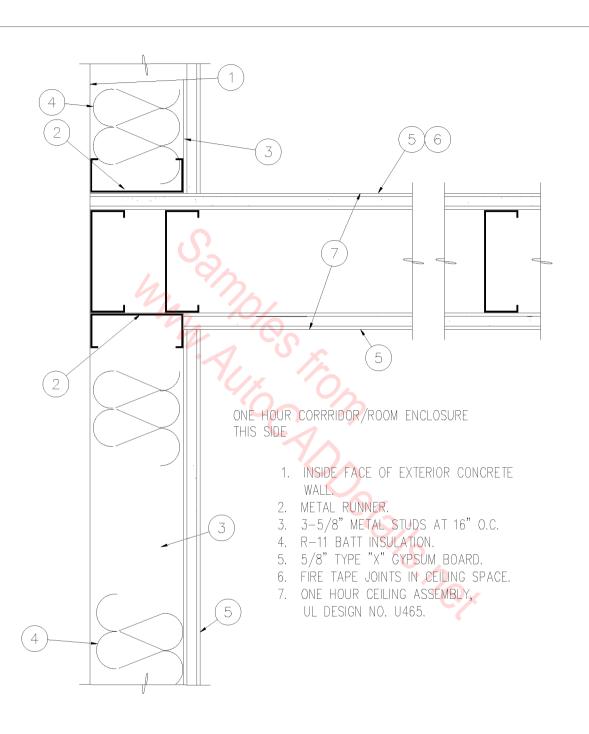
3' = 1'-0"

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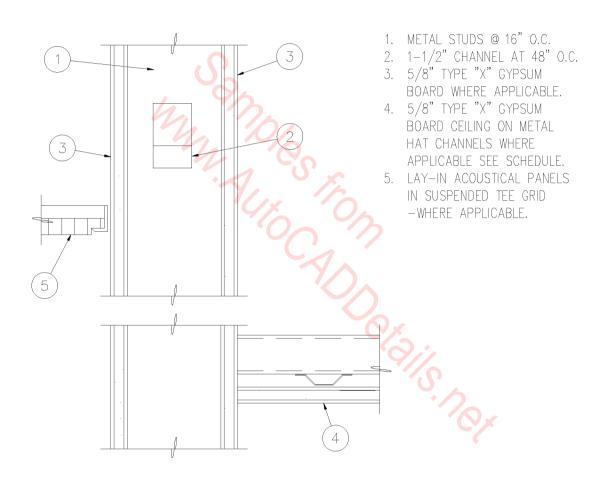
- MASONRY WALL.
 SEALANT, 7/8" MIN. DEPTH.
 BACKER ROD.

- BACKER ROD.
 CERAMIC FIBER BLANKET INSULATION: 1-1/2" AT 1 HOUR WALL, 4-1/2" AT 4 HOUR RATED WALL.
 5/8" TYPE 'X' GYPSUM BOARD WHERE OCCURS.
 3-5/8" METAL STUDS, WHERE OCCURS.
 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE. SECURE AT EXTERIOR WITH 1/4" FLAT HEAD EXPANSION ANCHORS IN COUNTERSUNK HOLES AT 24" O.C. SECURE AT INTERIOR WITH #12 SHEET METAL SCREWS AT 6" O.C. IN COUNTERSUNK HOLES. SECURE AT ONE SUDE OF EXPANSION JOINT ONLY SUNK HOLES, SECURE AT ONE SIDE OF EXPANSION JOINT ONLY.
- WALL INSULATION BATTS, WHERE OCCURS.
- STEEL CLOSURE LOCATION AT INTERIOR MASONRY CONDITION.

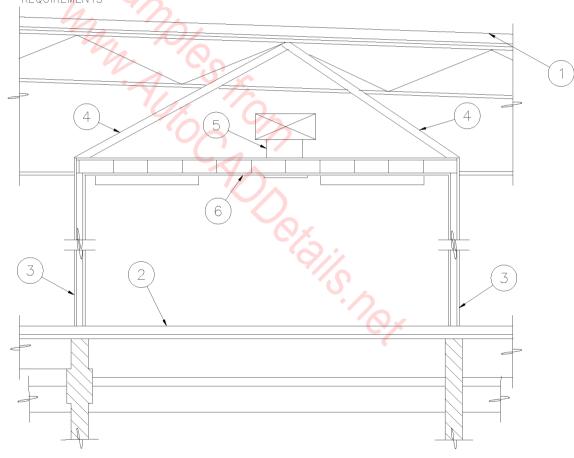


1 HOUR ENCLOSURE

3" = 1'-0"

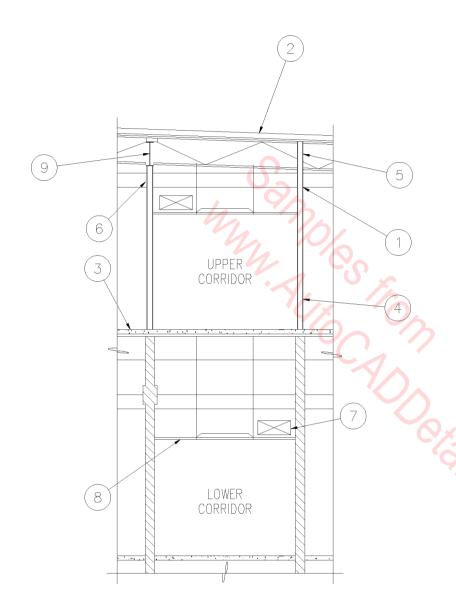


- 1. 2 HOUR RATED ROOF ASSEMBLY LIGHT WEIGHT CONCRETE TOPPING ON STEEL DECK ON STEEL JOIST, UL DESIGN NO. P908.
- 2. 2 HOUR RATED FLOOR ASSEMBLY 10' CONCRETE DOUBLE TEES WITH 4" CONCRETE TOPPING, UL DESIGN NO. J941.
- 3. 1 HOUR RATED WALL, 3-5/8" METAL STUDS AT 16" O.C. WITH 5/8" TYPE X GYPSUM WALLBOARD EACH SIDE.
- 4. 3-5/8 25 GAUGE METAL STUD BRACES AT 48" O.C.
- 5. PENÉTRATIONS THRU THE CEILING SHALL BE PROTECTED WITH EITHER FIRE DAMPERS OR UL LISTED POKE THRU DETAILS.
- 6. 1 HOUR RATED CEILING SYSTEM, METAL STUDS AT 16" O.C. WITH 5/8" TYPE X GYPSUM WALLBOARD EACH SIDE. FIRE TAPE ATTIC SIDE OF CEILING. SEE SPECIFICATIONS FOR DEPTH OF METAL STUD REQUIRED BY SPAN. SEE DETAIL 5 ON SHEET A902 FOR ADDITIONAL ONE HOUR REQUIREMENTS



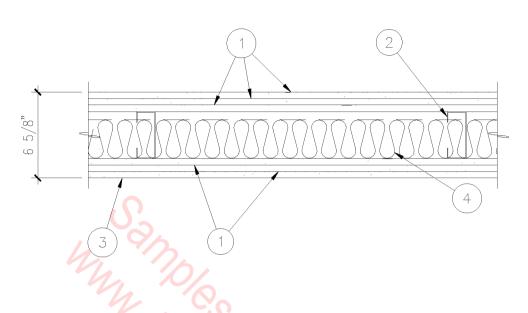
1 HOUR ENCLOSURE

3" = 1'-0"



- 1. FIRE STOPPING SEALANT, 'TREMCO' DYMETRIC, POLYTREMDYNE TERPOLYMER.
- 2. 2 HOUR RATED ROOF ASSEMBLY LIGHT WEIGHT CONCRETE TOPPING ON STEEL DECK ON STEEL JOIST, UL DESIGN NO. P908.
- 3. 2 HOUR RATED FLOOR ASSEMBLY 10' CONCRETE DOUBLE TEES WITH 4" CONCRETE TOPPING, UL DESIGN NO. J941.
- 4. 1 HOUR RATED WALL, 3-5/8" METAL STUDS AT 16" O.C. WITH 5/8" TYPE 'X' GYPSUM WALLBOARD EACH SIDE.
- 5. EXTEND ONE HOUR RATED WALL TO ROOF DECK.
- 6. PENETRATIONS THRU THE WALLS SHALL BE PROTECTED WITH EITHER FIRE DAMPERS OR UL LISTED POKE THRU DETAILS.
- 7. DUCTS THAT ARE A MINIMUMS OF 0.19 INCH (26 GAUGE) STEEL DO NOT REQUIRE FIRE DAMPERS WHEN THE DUCT HAS NO OPENINGS INTO THE CORRIDOR.
- 8. UNRATED SUSPENDED CEILING AND UNPROTECTED LIGHT FIXTURES.
- 9. CEMENTITIOUS FIREPROOFING APPLIED
 IN A CONTOUR MANNER AT BEAM. AT
 JOIST APPLY IN A CONTOUR MANNER TO
 CREATE 1 HR. RATING FULL HEIGHT OF MEMBER.

1/8" = 1'-0'



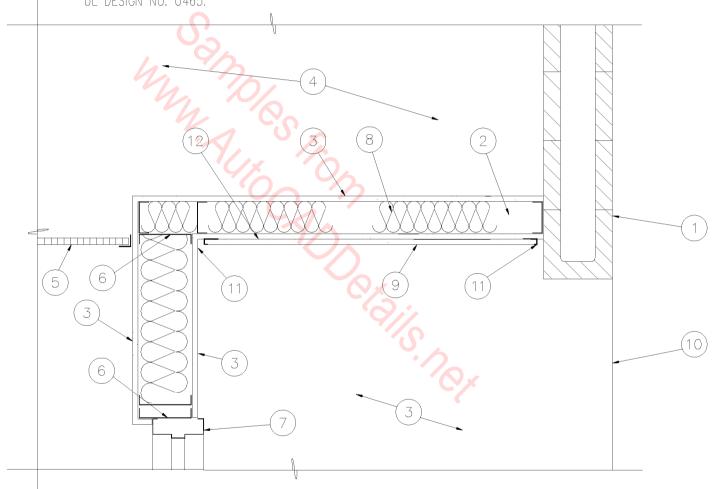
- 1/2" SHEETROCK BRAND FIRECODE 'C' CORE GYPSUM PANELS.
- 3 5/8" METAL STUDS AT 24" O.C.
 1/2" CEMENTITIOUS BACKER BOARD.
 3" THERMAFIBER SAFB.

- PANELS APPLIED VERTICALLY WITH JOINTS STAGGERED.
- В. JOINTS FINISHED.
- C. CAULK PERIMETER.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



- 2. 3-5/8" X 18 GAUGE METAL STUDS AT 16" O.C.
- 3. 5/8" TYPE 'X' GYPSUM BOARD.
- 4. 1 HOUR WALL SYSTEM.
 UL DESIGN NO. U465, WHERE OCCURS.
- 5. ACOUSTICAL CEILING.
- 6. 6" METAL STUDS AT 16" O.C. UL DESIGN NO. U465.

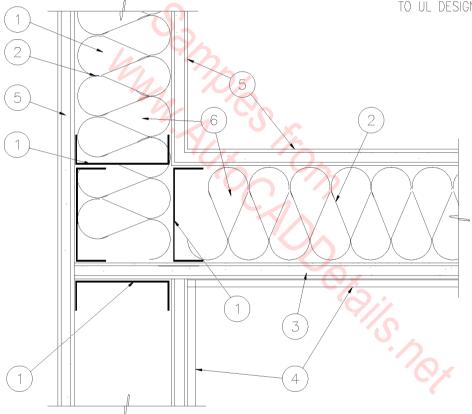
- 7. HOLLOW METAL FRAME.
- 8. FULL SOUND DEADENING INSULATION.
- 9. (2) LAYERS OF 1/2" TYPE 'X' GYPSUM BOARD.
- 10. EDGE OF WALL BEYOND.
- 11. 1/2" REVEAL.
- 12. 1 HOUR CEILING SIMILAR TO UL DESIGN NO. L524.



NOOR ALCOVE SECTION

1" = 1'-0"

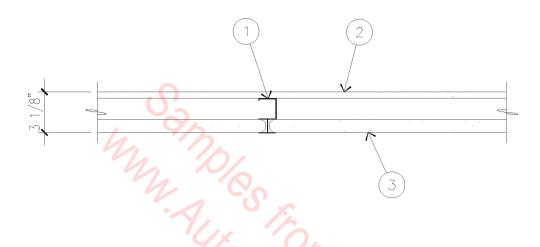
- 1. 3-5/8" METAL STUDS.
- 2. BATT INSULATION.
- 3. 1/2" CEMENTITIOUS BACKER BOARD.
- 4. CERAMIC TILE ON THIN SET.
- 5. 5/8" TYPE 'X' GYPSUM BOARD.
- 6. 1 HR WALL SIMILAR
 TO UL DESIGN NO. U445.



TILE TO RESISTIVE WALL

3" = 1'-0'

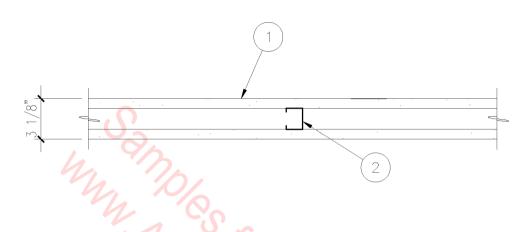
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- 1. USG STEEL C-H STUDS AT 24" ON CENTER.
- 2. 5/8" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS ATTACHED WITH SCREWS.

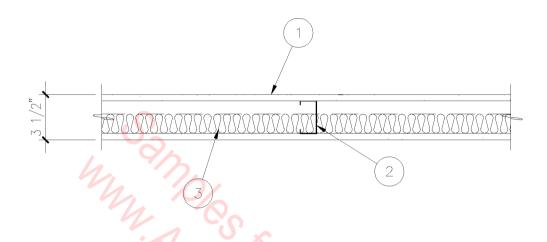
 3. 1" SHEETROCK BRAND LINER PANELS SET
- BETWEEN C-H STUDS.

- JOINTS FINISHED.
- FIRE RATING ALSO APPLIES WITH IMPERIAL FIRECODE C BASE AND VENEER FINISH SURFACES.



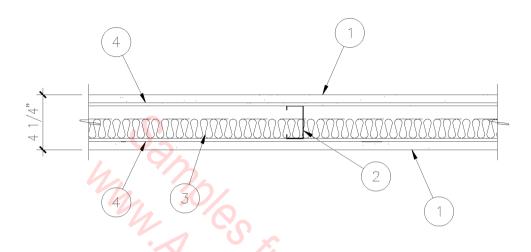
- 3/4" SHEETROCK BRAND ULTRACODE CORE GYPSUM PANELS.
 1 5/8" METAL STUDS AT 24" ON CENTER.

- PANELS VERTICALLY ATTACHED TO STUDS WITH 1 1/2" TYPE "S" SCREWS 8" ON CENTER AT PERIMETER AND 12" ON CENTER FIELD.
- B. STAGGER AND FINISH JOINTS.



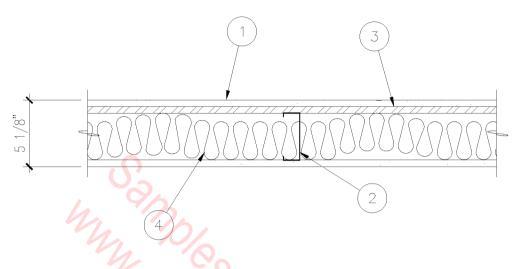
- 1. 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS.
- 2. 2 1/2" METAL STUDS AT 24" ON CENTER.
- 3. 1 1/2" THERMAFIBER SAFB.

- A. SINGLE LAYER PANELS EACH SIDE APPLIED VERTICALLY AND SCREW ATTACHED.
- B. JOINTS FINISHED.
- C. PERIMETER CAULKED.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



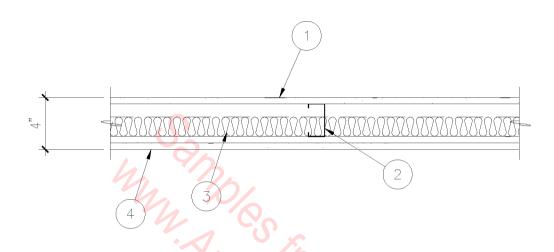
- 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS FACE LAYER SCREW ATTACHED.
 2 1/2" METAL STUDS AT 24" ON CENTER.
 1 1/2" THERMAFIBER SAFB.
 1/4" SHEETROCK BRAND GYPSUM BOARD
- 3.
- BASE LAYER SCREW ATTACHED.

- A. ESTIMATED FIRE RATING BASED ON T-1174-0SU
- JOINTS FINISHED. В.
- C. PERIMETER CAULKED.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



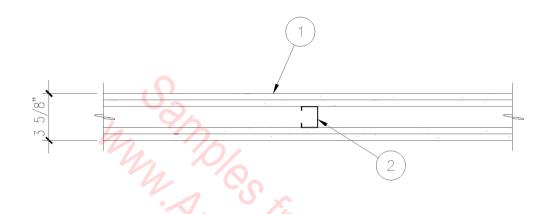
- 1. 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS, OR 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
- 2. 3 5/8" METAL STUDS AT 24" ON CENTER. ON CENTER.
- 3. RC-1 CHANNEL ONE SIDE SPACED AT 24" ON CENTER SCREW ATTACHED.
- 4. 3" THERMAFIBER SAFB 25" WIDE CREASED TO FIT CAVITY.

- A. PANELS VERTICALLY APPLIED AND SCREW ATTACHED.
- B. JOINTS STAGGERED FINISHED.
- C. CAULK PERIMETER.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.
- E. ASSEMBLIES WITH RC-1 RESILIENT CHANNEL REQUIRE LATERAL BRACING AND OFFER ESTIMATED FIRE RATING.



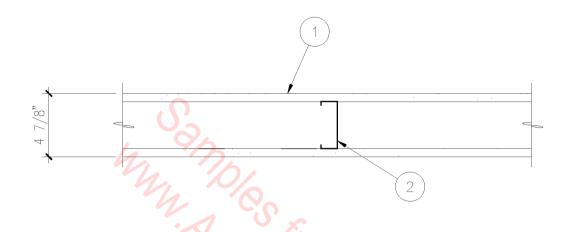
- 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS.
- 2 1/2" METAL STUDS AT 24" ON CENTER. 1 1/2" THERMAFIBER SAFB.
- TWO LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS.

- PANELS APPLIED VERTICALLY AND SCREW ATTACHED.
- JOINTS STAGGERED AND FINISHED.
- PERIMETER CAULKED. C.
- D. ESTIMATED FIRE RATING BASED ON T-3362-OSU.
- FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



- TWO LAYERS 1/2" SHEETROCK BRAND GYPSUM PANELS EACH SIDE.
 1 5/8" METAL STUDS AT 24" ON CENTER.

- PANELS APPLIED VERTICALLY AND SCREW ATTACHED.
- STAGGER AND FINISH JOINTS. В.
- CAULK PERIMETER.

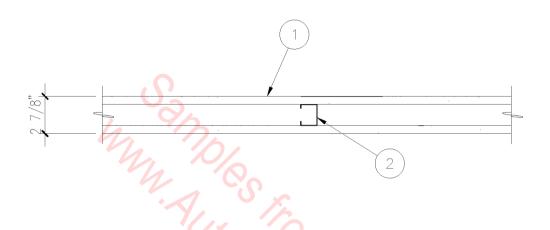


- 1. 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
- 2. 3 5/8" METAL STUDS AT 24" ON CENTER.

- A. SINGLE LAYER PANELS APPLIED VERTICALLY OR HORIZONTALLY AND SCREW ATTACHED.
- B. STAGGER AND FINISH JOINTS.
- C. CAULK PERIMETER.
- D. GA-WP-1200 BASE ON PANELS APPLIED HORIZONTALLY.

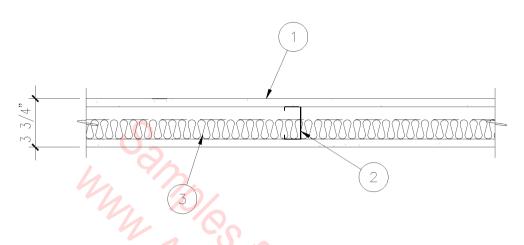
1-1/2" = 1'-0'

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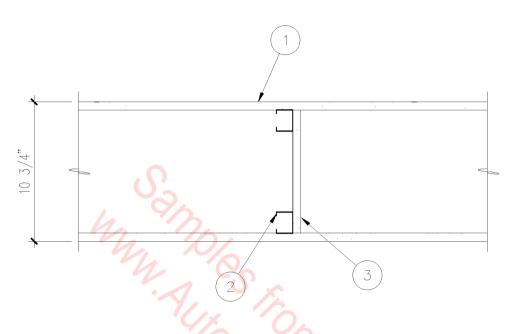
- 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
 2. 1 5/8" METAL STUDS AT 24" ON CENTER.

- SINGLE LAYER PANELS APPLIED VERTICALLY SCREW ATTACHED AT 12" ON CENTER.
- B. JOINTS FINISHED.
- C. CAULK PERIMETER.



- 1. 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
- 2. 2 1/2" METAL STUDS AT 24" ON CENTER.
- 3. 1 1/2" THERMAFIBER SAFB.

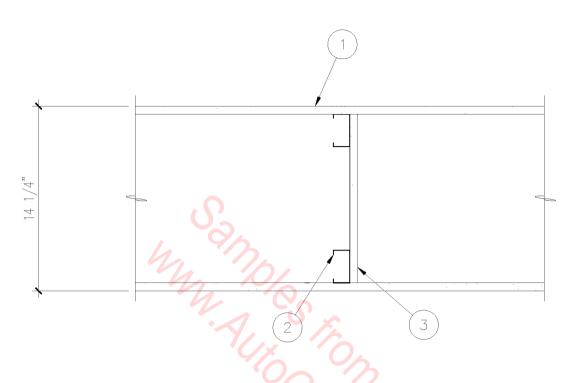
- A. PANELS APPLIED HORIZONTALLY AND SCREW ATTACHED, JOINTS FINISHED.
- B. OPPOSITE PANELS APPLIED VERTICALLY, JOINTS UNFINISHED.
- C. RATING ALSO APPLIES TO ASSEMBLY WITH 1/2" SHEETROCK BRAND GYPSUM PANELS FIRECODE C CORE, JOINTS FINISHED CEG 5-9-84.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



- 5/8" SHEETROCK BRAND FIRECODE
- CORE GYPSUM PANELS EACH SIDE.

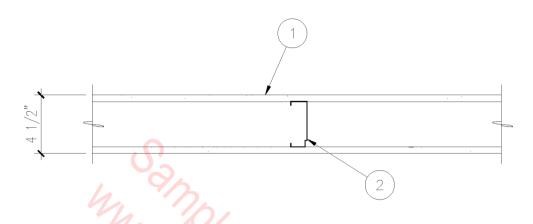
 1 5/8" METAL STUDS AT 24" ON CENTER IN
 TWO ROWS SPACED 6 1/4" APART.
- 5/8" GYPSUM PANEL GUSSETS OR STEEL RUN BRACES SPANNING CHASE SCREW ATTACHED TO STUDS.

- A. PANELS APPLIED VERTICALLY AND SCREW ATTACHED.
- B. JOINTS STAGGERED AND FINISHED.



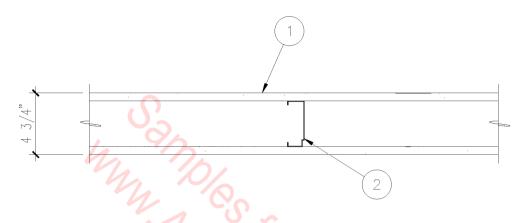
- 1. 5/8" SHEETROCK BRAND FIRECODE
- CORE GYPSUM PANELS EACH SIDE.
 2 1/2" METAL STUDS AT 24" ON CENTER IN
 TWO ROWS SPACED 8" APART.
- 3. 5/8" GYPSUM PANEL GUSSETS SPANNING CHASE ATTACHED TO STUDS AT QUARTER AND CENTER POINTS.

- A. PANELS APPLIED VERTICALLY AND SCREW ATTACHED.
- B. JOINTS STAGGERED AND FINISHED.



- 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS.
 35SJ20 METAL STUDS AT 24" ON CENTER.

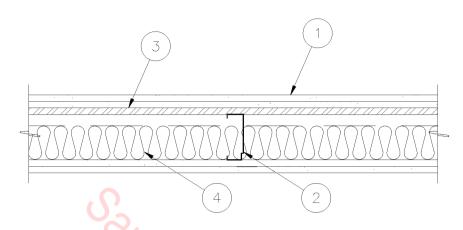
- A. PANELS APPLIED VERTICALLY AND ATTACHED WITH 1" TYPE S-12 SCREWS AT 12" ON CENTER.
- B. FINISH JOINTS.
- C. LOAD BEARING UP TO 100% ALLOWABLE STUD AXIAL.



- 1. 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
 2. 35SJ20 METAL STUDS AT 24" ON CENTER.

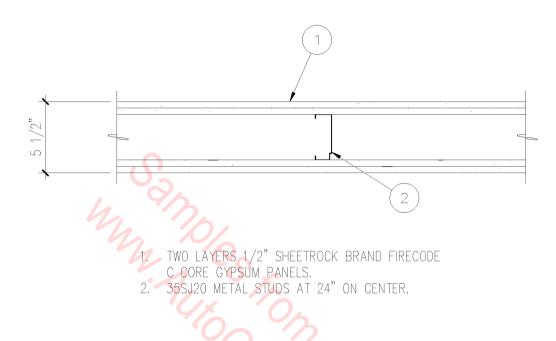
- PANELS APPLIED VERTICALLY AND ATTACHED WITH 1" TYPE S-12 SCREWS AT 12" ON CENTER.
- B. FINISH JOINTS.
- C. LOAD BEARING UP TO 100% ALLOWABLE STUD AXIAL.

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- 1. TWO LAYERS 1/2" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
- 2. 35SJ20 METAL STUDS AT 24" ON CENTER.
- 3. RC-1 CHANNEL ONE SIDE SPACED AT 24" SCREW ATTACHED TO STUDS
- SCREW ATTACHED TO STUDS
 4. 1", 11/2", 2", OR 3" THERMAFIBER SAFB.

- A. PANELS APPLIED VERTICALLY WITH JOINTS STAGGERED .
- B. BASE LAYER ATTACHED WITH 1" TYPE S-12 SCREWS AT 12" ON CENTER.
- C. FACE LAYER ATTACHED WITH 1 5/8" TYPE S-12 SCREWS AT 12" ON CENTER.
- D. JOINTS FINISHED.
- E. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.
- F. LOAD BEARING UP TO 100% ALLOWABLE STUD AXIAL LOAD.
- G. RATING ALSO APPLIES WITH IMPERIAL FIRECODE C BASE AND VENEER FINISH SURFACE.
- H. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.

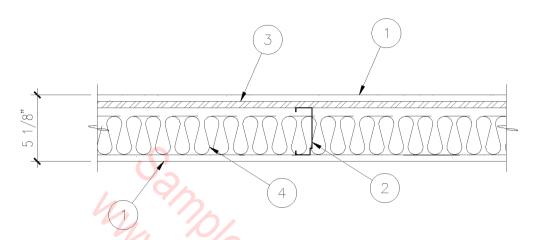


- A. PANELS APPLIED VERTICALLY.

 B. BASE LAYER ATTACHED WITH 1" TYPE S-12 SCREWS AT 12" ON CENTER.
- SCREWS AT 12" ON CENTER.

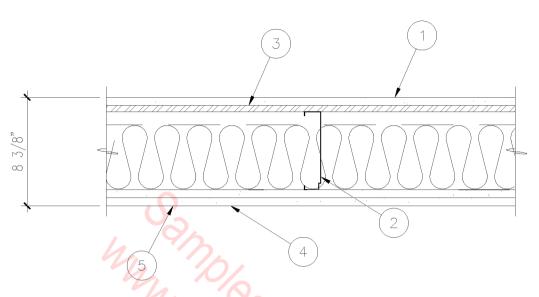
 C. FACE LAYER ATTACHED WITH 1 5/8" TYPE S-12 SCREWS AT 12" ON CENTER.

 D. JOINTS EINISCHED
- JOINTS FINISHED.
- LOAD BEARING UP TO 100% ALLOWABLE STUD AXIAL LOAD.



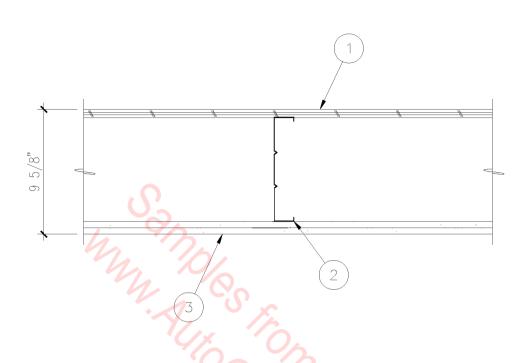
- 1/2" SHEETROCK BRAND FIRECODE50 C CORE GYPSUM PANELS SCREW ATTACHED TO CHANNEL AND/OR STUDS.
- 2. 362SJ20 METAL STUDS AT 24" ON CENTER.
- 3. RC-1 CHANNEL ONE SIDE SPACED AT 24" SCREW ATTACHED TO STUDS.
- 4. 3" THERMAFIBER SAFB.

- A. PANELS APPLIED VERTICALLY WITH JOINTS STAGGERED.
- B. JOINTS FINISHED.
- C. CAULK PERIMETER.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.
- E. ASSEMBLIES WITH RC-1 RESILIENT CHANNEL REQUIRE LATERAL BRACING AND OFFER ESTIMATED FIRE RATING.



- 1. ONE LAYER 5/8" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANEL SCREW ATTACHED TO CHANNEL.
- 2. 60SJ20 METAL STUDS AT 24" ON CENTER.
- 3. RC-1 CHANNEL ONE SIDE SPACED AT 24" SCREW ATTACHED TO STUDS.
- 4. 5" THERMAFIBER SAFB.5. TWO LAYERS 5/8" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANEL SCREW ATTACHED TO STUDS.

- PANELS APPLIED VERTICALLY WITH JOINTS STAGGERED.
- B. JOINTS FINISHED.
- C. CAULK PERIMETER.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.
- E. ASSEMBLIES WITH RC-1 RESILIENT CHANNEL REQUIRE LATERAL BRACING AND OFFER ESTIMATED FIRE RATING.

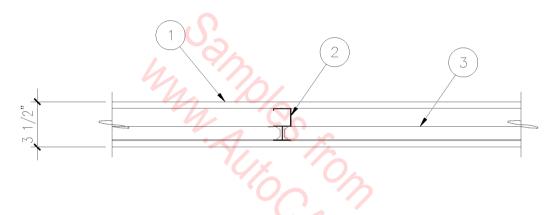


- 1. 5/8" T&G PLYWOOD FLOORING ATTACHED TO
- JOISTS WITH TYPE S-12 SCREWS.

 2. 725SJ18 STEEL JOISTS AT 24" ON CENTER.

 3. DOUBLE LAYER 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANEL CEILING.

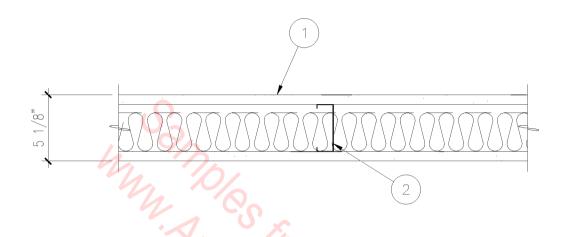
- A. JOINTS UNFINISHED.
- B. DOUBLE LAYER GYPSUM PANELS AROUND BEAM.



- 1. 1/2" SHEETROCK BRAND, WATER RESISTANT, FIRECODE C CORE GYPSUM PANELS.
 2. USG 25GA. STEEL C-H STUDS AT 24" ON CENTER.
- 3. 1" SHEETROCK BRAND GYPSUM LINER PANELS SET BETWEEN C-H STUDS.

- SINGLE LAYER PANELS EACH SIDE APPLIED VERTICALLY AND SCREW ATTACHED.
- JOINTS STAGGERED OPPOSITE SIDES.
- JOINTS FINISHED.
- CAULK PERIMETER.

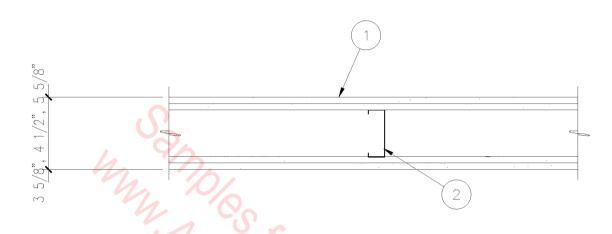
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- 3/4" SHEETROCK BRAND ULTRACODE CORE GYPSUM PANELS EACH SIDE.
- 3 5/8" OR 3 1/2" METAL STUDS AT 24" ON CENTER. 3" THERMAFIBER SAFB.

- PANELS VERTICALLY APPLIED AND SCREW ATTACHED AT 8" ON CENTER AT PERIMETER AND 12" ON CENTER ON FIELD.
- B. CAULK PERIMETER.
- C. JOINTS STAGGERED AND FINISHED.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.

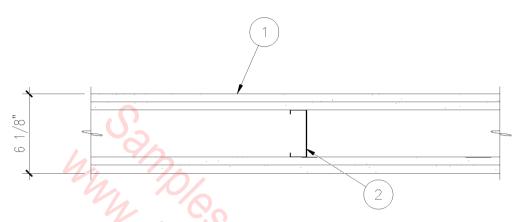
5C-2052



- TWO LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS EACH SIDE. 1 5/8", 2 1/2", OR 3 5/8" METAL STUDS AT 24" ON CENTER.

- A. BASE LAYER APPLIED VERTICALLY, SCREW ATTACHED.
- B. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY, JOINTS STAGGERED STRIP LAMINATE OR SCREW ATTACH.
- C. JOINTS FINISHED.
- D. CAULK PERIMETER.
- E. RATING BASED ON ASSEMBLY WITHOUT SOUND BATTEN BLANKETS.

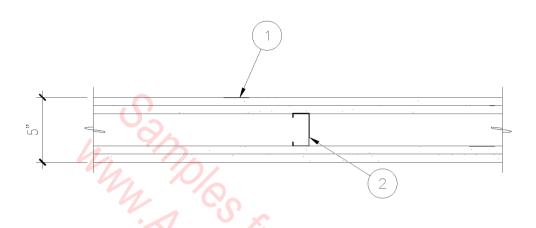
5C-2053



- TWO LAYERS 5/8" SHEETROCK BRAND FIRECODE CORE PLAIN OR VINYL FACED GYPSUM PANELS VERTICALLY APPLIED EACH SIDE.
 2. 3 5/8" STUDS AT 24" ON CENTER.

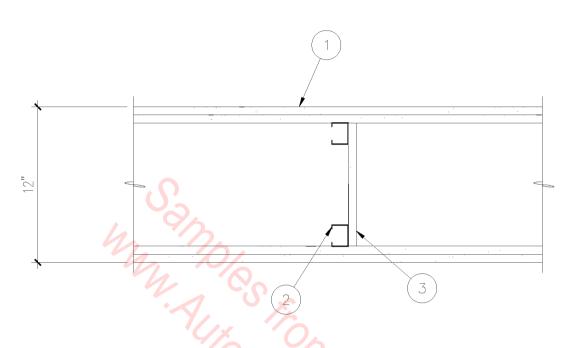
- A. BASE LAYERS SCREW ATTACHED.
- B. FACE LAYER LAMINATED OR SCREW ATTACHED.
- C. JOINTS STAGGERED AND FINISHED OR UNFINISHED
- D. CAULK PERIMETER.

150-2054



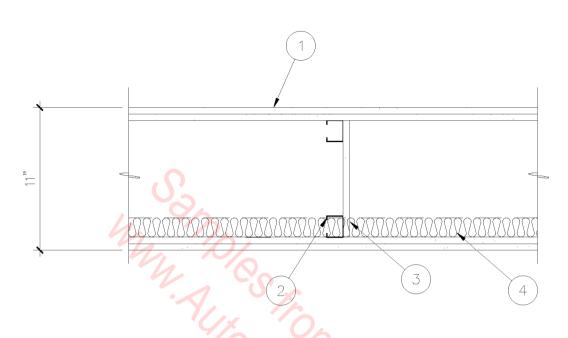
- 1. TWO LAYERS 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS EACH SIDE.
- CORE GYPSUM PANELS EACH SIDE. 2. 2 1/2" STUDS AT 24" ON CENTER.

- A. PANELS APPLIED HORIZONTALLY AND JOINTS STAGGERED.
- B. BASE AND FACE LAYERS SCREW ATTACHED.
- C. CAULK PERIMETER.
- D. JOINTS FINISHED.



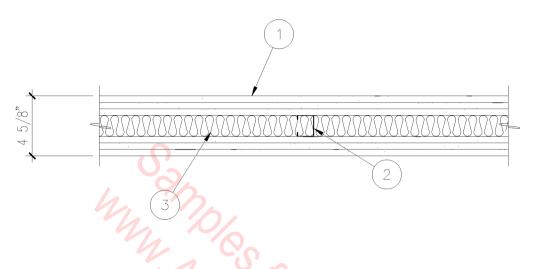
- TWO LAYERS 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS EACH SIDE.
 1 5/8" METAL STUDS AT 24" ON CENTER IN
- 2. 1 5/8" METAL STUDS AT 24" ON CENTER IN TWO ROWS SPACED 6 1/4" APART.
- 3. 5/8" GYPSUM PANEL GUSSETS OR STEEL RUN BRACES SPANNING CHASE SCREW ATTACHED TO STUDS.

- A. PANELS APPLIED VERTICALLY AND SCREW ATTACHED.
- B. JOINTS STAGGERED AND FINISHED.



- 1. TWO LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS EACH SIDE.
- 2. 1 5/8" METAL STUDS AT 24" ON CENTER IN TWO ROWS SPACED 5 3/4" APART.
- 3. 1/2" GYPSUM PANEL GÚSSETS SPANNING CHASE ATTACHED TO STUDS AT QUARTER POINTS.
- 4. 1 1/2" THERMAFIBER SAFB.

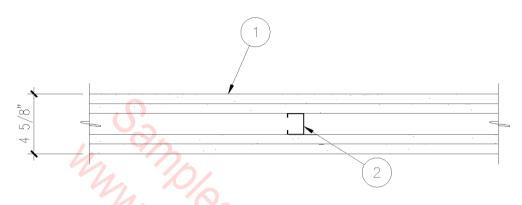
- A. PANELS APPLIED VERTICALLY AND SCREW ATTACHED.
- B. JOINTS STAGGERED AND FINISHED.
- C. ESTIMATED FIRE RATING BASED ON UL DES U412.
- D. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



- THREE LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS EACH SIDE.

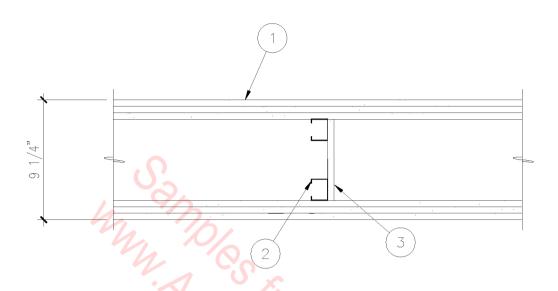
 1 5/8" METAL STUDS AT 24" ON CENTER.
- 3. THERMAFIBER SAFB (OPTIONAL).

- A. BASE LAYERS APPLIED VERTICALLY.
- B. PANELS SCREW ATTACHED WITH JOINTS STAGGERED AND FINISHED.
- CAULK PERIMETER.
- D. RATING BASED ON ASSEMBLY WITH OR WITHOUT SAFB.
- E. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



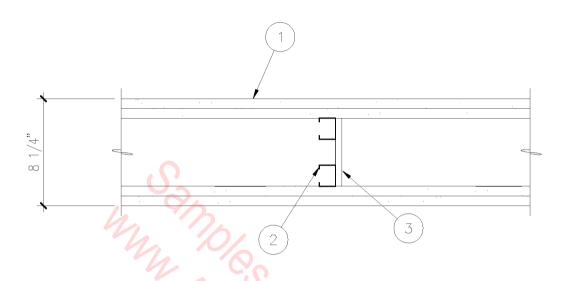
- TWO LAYERS 3/4" SHEETROCK BRAND ULTRACODE CORE GYPSUM PANELS EACH SIDE. 1 5/8" METAL STUDS AT 24" ON CENTER.

- BASE LAYER APPLIED VERTICALLY AND ATTACHED WITH 1 1/4" TYPE "S" SCREWS AT 24" ON CENTER.
 JOINTS FINISHED.
- В.
- FACE LAYER ATTACHED VERTICALLY OR HORIZONTALLY WITH 2 1/4" TYPE "S" SCREWS AT 12" ON CENTER.
- ATTACH HORIZONTAL JOINTS WITH TYPE "G" D. SCREWS MIDWAY BETWEEN FRAMING (24" ON CENTER).
- CAULK PERIMETER. E.



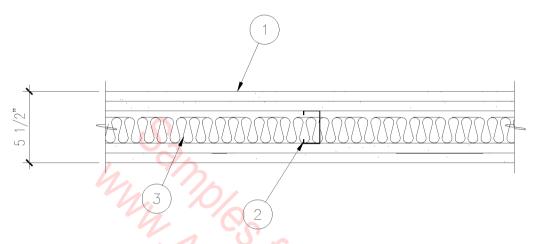
- 1. THREE LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS EACH SIDE.
- 2. 1 5/8" METAL STUDS AT 24" ON CENTER IN TWO ROWS SPACED 3" APART.
- 3. GYPSUM PANEL GUSSETS OR STEEL RUN BRACES SPANNING CHASE SCREW ATTACHED TO STUDS.

- A. PANELS APPLIED VERTICALLY AND SCREW ATTACHED.
- B. JOINTS STAGGERED AND FINISHED.
- C. 2 HOUR RATING APPLIES WITH TWO LAYERS PANELS EACH SIDE.
- D. 1 HOUR RATING APPLIES WITH ONE LAYER 5/8" PANELS EACH SIDE.



- 1. TWO LAYERS 3/4" SHEETROCK BRAND ULTRACODE CORE GYPSUM PANELS EACH SIDE.
- 2. 1 5/8" METAL STUDS AT 24" ON CENTER IN TWO ROWS SPACED 2" APART.
- 3. GYPSUM PANEL GUSSETS OR STEEL RUN BRACES SPANNING CHASE SCREW ATTACHED TO STUDS.

- A. BASE LAYER APPLIED VERTICALLY AND ATTACHED WITH 1 1/4" TYPE "S" SCREWS AT 24" ON CENTER.
- B. JOINTS STAGGERED AND FINISHED.
- C. FACE LAYER ATTACHED VERTICALLY OR HORIZONTALLY WITH 2 1/4" TYPE "S" SCREWS AT 12" ON CENTER.
- D. ATTACH HORIZONTAL JOINTS WITH TYPE "G" SCREWS MIDWAY BETWEEN FRAMING (24" ON CENTER).

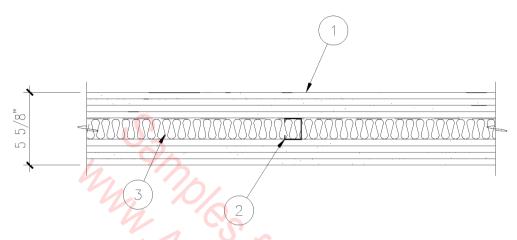


- 1. TWO LAYERS 3/4" SHEETROCK BRAND ULTRACODE CORE GYPSUM PANELS EACH SIDE.
- 2. 2 1/2" METAL STUDS AT 24" ON CENTER.
- 3. 2" THERMAFIBER SAFB.

- A. BASE LAYER APPLIED VERTICALLY, JOINTS STAGGERED AND SCREW ATTACHED AT 24" ON CENTER.
- B. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND SCREW ATTACHED AT 12" ON CENTER.
- C. ATTACH HORIZONTAL JOINTS WITH TYPE "G" SCREWS MIDWAY BETWEEN FRAMING (24" ON CENTER).
- D. JOINTS FINISHED.
- E. CAULK PERIMETER.
- F. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.

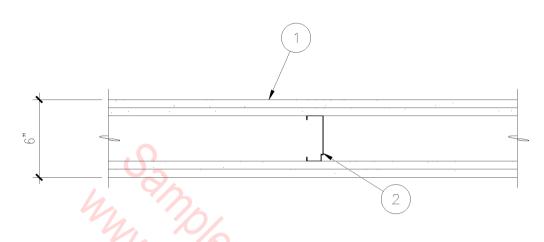
1-1/2" = 1'-0'

05C-2062



- 1. FOUR LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS EACH SIDE.
- 2. 1 5/8" METAL STUDS AT 24" ON CENTER.
- 3. 2" THERMAFIBER SAFB (OPTIONAL).

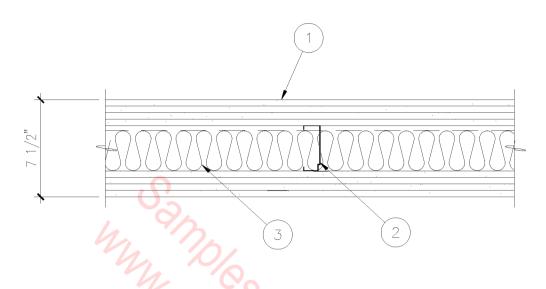
- A. BASE LAYER APPLIED VERTICALLY.
- B. FACE LAYER APPLIED HORIZONTALLY.
- C. PANELS SCREW ATTACHED WITH JOINTS STAGGERED AND FINISHED.
- D. CAULK PERIMETER.
- E. RATING BASED ON ASSEMBLY WITH OR WITHOUT SOUND BATTEN FIRE BLANKETS.
- F. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



- TWO LAYERS 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
- 2. 35SJ20 METAL STUDS AT 24" ON CENTER.

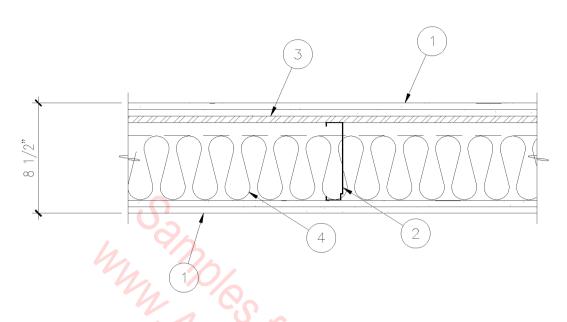
- A. PANELS APPLIED VERTICALLY.
- B. BASE LAYER ATTACHED WITH 1" TYPE S-12
- SCREWS AT 12" ON CENTER.

 C. FACE LAYER ATTACHED WITH 1 5/8" TYPE
 S-12 SCREWS AT 12" ON CENTER.
- D. JOINTS FINISHED.
- E. LOAD BEARING UP TO 100% ALLOWABLE STUD AXIAL LOAD.



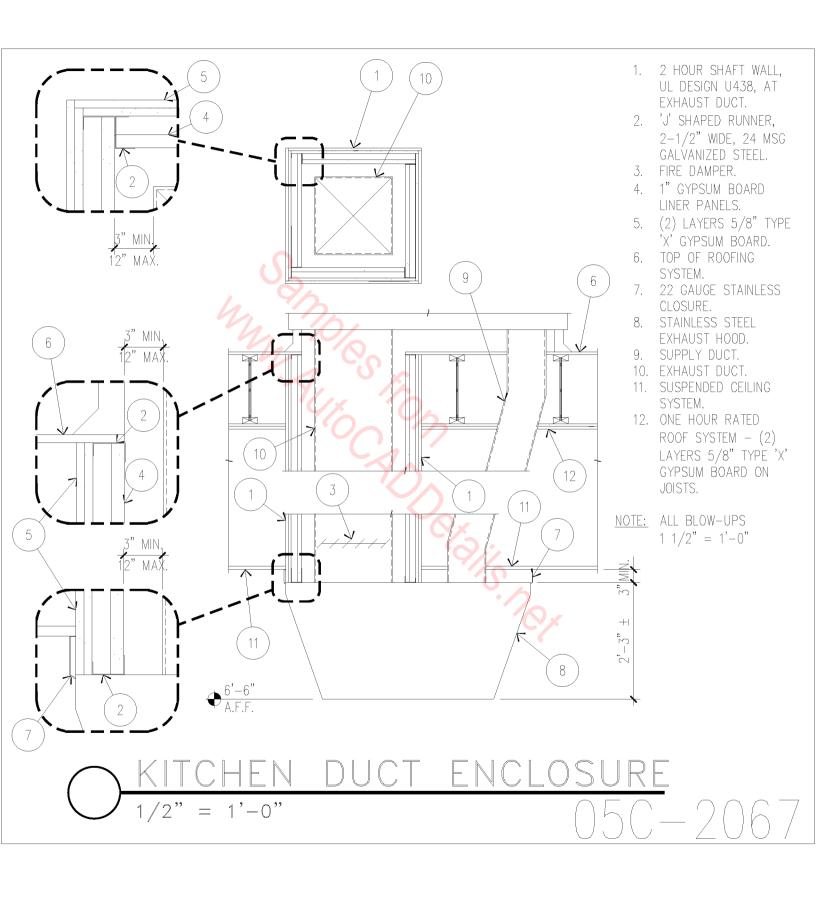
- 1. TWO LAYERS 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM PANELS.
- 2. 35SJ20 METAL STUDS AT 24" ON CENTER.
- 3. 1", 1 1/2", 2", OR 3" THERMAFIBER SAFB (OPTIONAL).

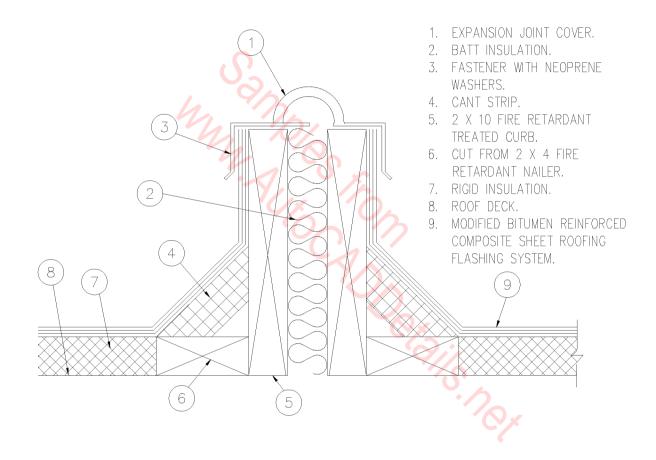
- A. BASE LAYERS APPLIED VERTICALLY WITH JOINTS STAGGERED.
- B. BASE PANELS ATTACHED WITH TYPE S-12 SCREWS AT 48" ON CENTER.
- C. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY WITH 2 5/8" TYPE S-12 SCREWS AT 12" ON CENTER AND 1 1/2" TYPE "G" SCREWS IN PANELS.
- D. RATING ALSO APPLIES WITH IMPERIAL FIRECODE C BASE AND VENEER FINISH SURFACES.
- E. LOAD BEARING UP TO 100% ALLOWABLE STUD AXIAL LOAD.
- F. FIBERGLASS INSULATION CAN NOT BE SUBSTITUTED FOR THERMAFIBER INSULATION.



- TWO LAYERS 1/2" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS SCREW ATTACHED TO CHANNEL AND/OR STUDS.
- 60SJ20 METAL STUDS AT 24" ON CENTER.
- 2. 3. RC-1 CHANNEL ONE SIDE SPACED AT 24" SCREW ATTACHED TO STUDS. 5" THERMAFIBER SAFB.
- 4.

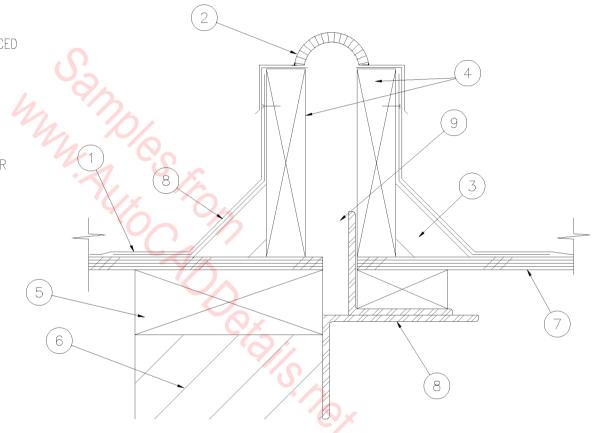
- PANELS APPLIED VERTICALLY WITH JOINTS STAGGERED.
- В. JOINTS FINISHED.
- C. CAULK PERIMETER.
- FIBERGLASS INSULATION CAN NOT BE D. SUBSTITUTED FOR THERMAFIBER INSULATION.
- E. ASSEMBLIES WITH RC-1 RESILIENT CHANNEL REQUIRE LATERAL BRACING AND OFFER ESTIMATED FIRE RATING.







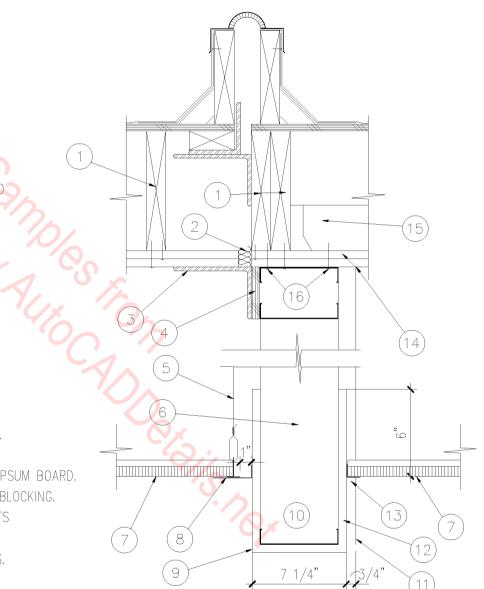
- 2. EXPANSION JOINT COVER
 COAT ALL NEOPRENE
 MATERIAL WITH WHITE
 ELASTOMERIC COATING AFTER
 INSTALLATION.
- 3. 4" CANT STRIP.
- 4. 2 x 8 FIRE RETARDANT TREATED WOOD CURB.
- 5. STRUCTURAL NAILER.
- 6. MASONRY WALL.
- 7. PLYWOOD SHEATHING.
- 8. FLASHING SYSTEM BY ROOFING MANUFACTURER.
- 9. STRUCTURAL SLIP JOINT.







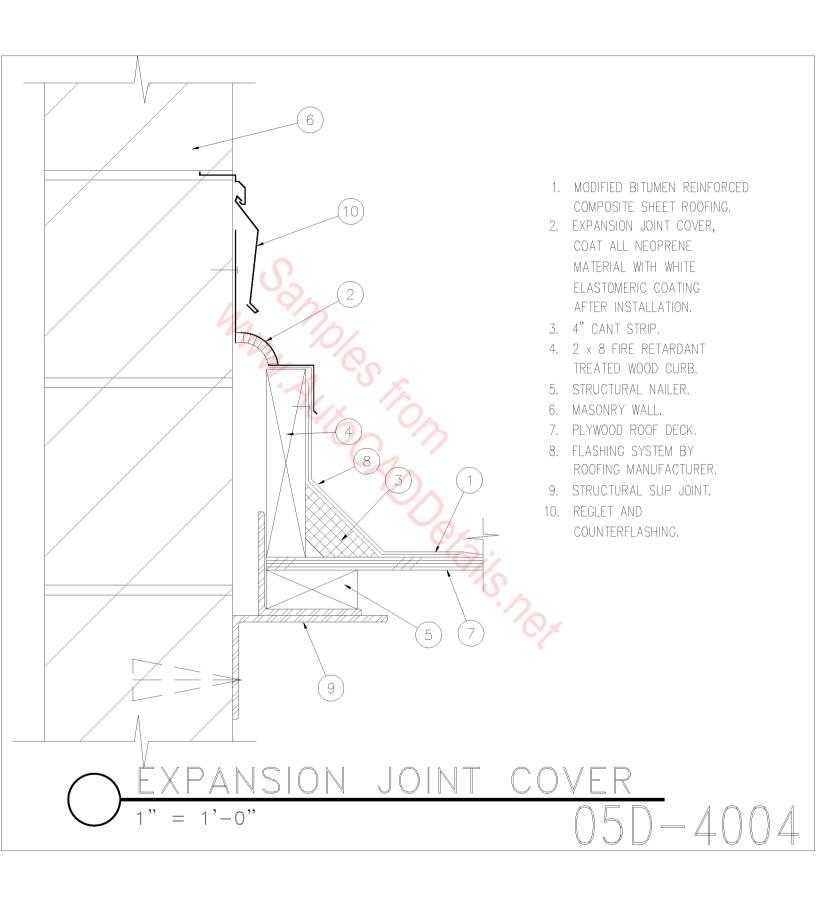
- 2. FIRE SAFING MATERIAL.
- 3. 4" X 6" X 5/16" STRUCTURAL SLIP JOINT ANGLE. ATTACHED TO PLYWOOD SHEATHING.
- 4. 5/8" FIRE RETARDANT TREATED PLYWOOD ATTACHED TO METAL STUD BLOCKING.
- 5. HANGER WIRE.
- 6. 6" METAL STUDS AT 16" O.C.
- 7. ACOUSTICAL CEILING TILE.
- 8. 1" X 3" X 20GA SHEET METAL ANGLE. PAINT TO MATCH CEILING TEE GRID.
- 9. METAL CORNER BEAD.
- 10. METAL STUD BLOCKING.
- 11. EDGE OF WALL BEYOND.
- 12. 5/8" TYPE 'X' GYPSUM BOARD.
- 13. WALL MOLDING.
- 14. (2) LAYERS, 5/8" TYPE 'X' GYPSUM BOARD.
- 15. 2X FIRE RETARDANT TREATED BLOCKING. HUNG FROM STRUCTURAL JOISTS WITH JOIST HANGERS.
- 16. #12 X 2" LONG METAL SCREWS.

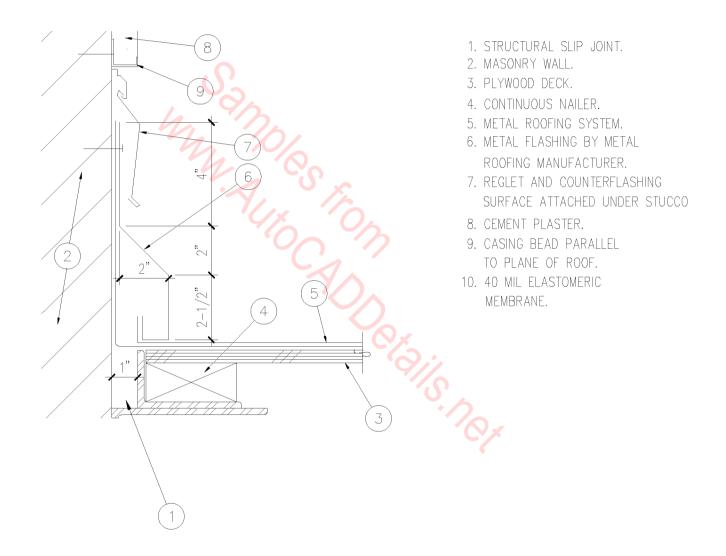


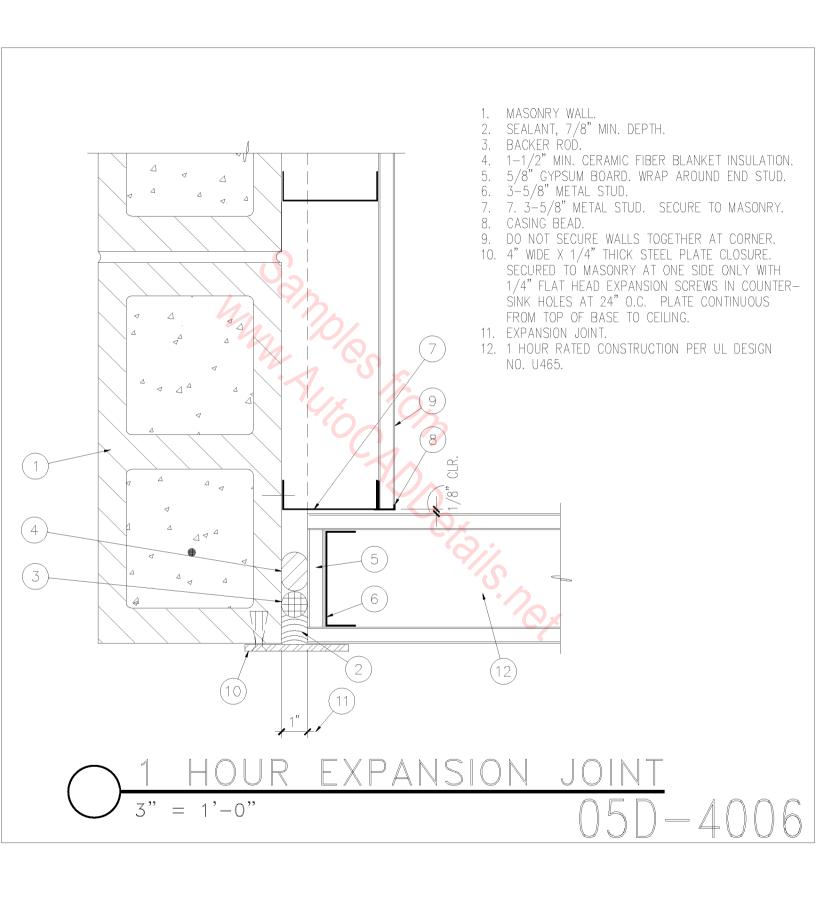
EXPANSION JOINT DETS.

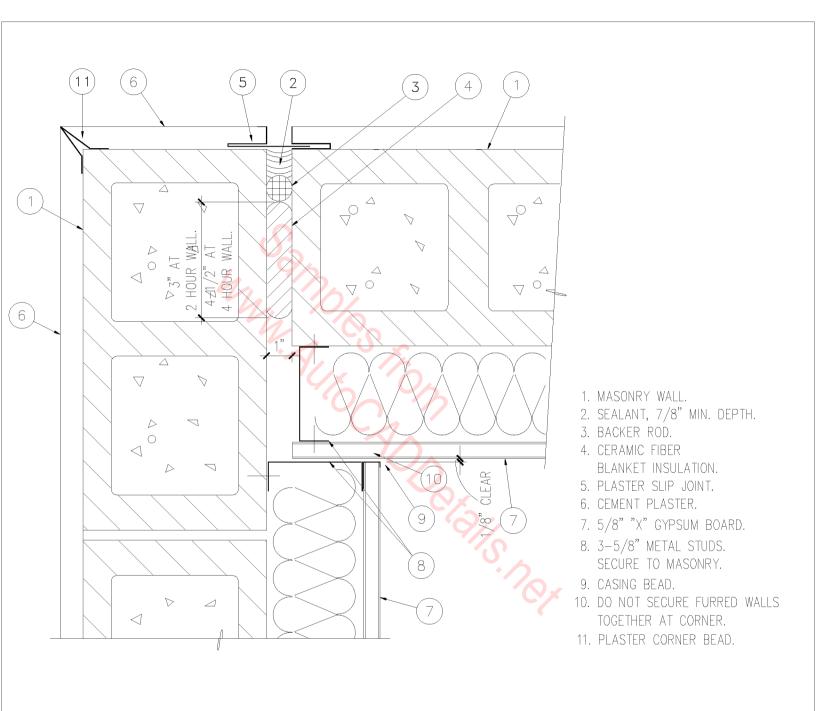
 $1 \ 1/2$ " = 1'-0"

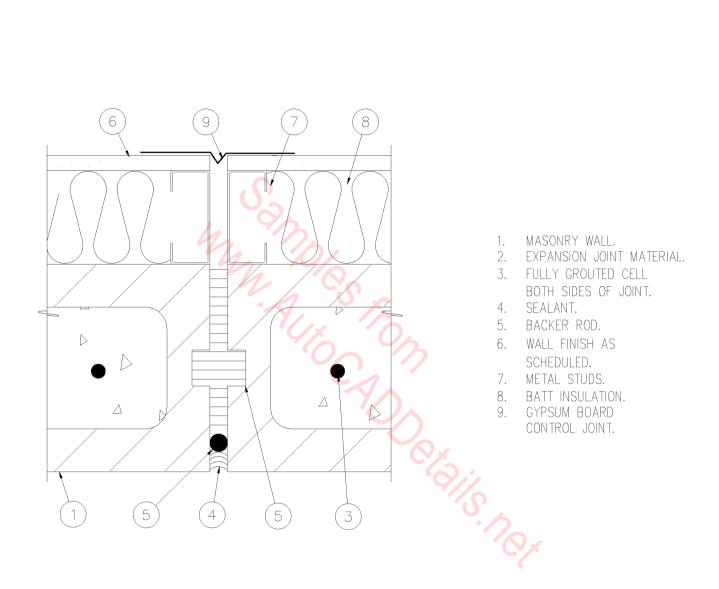
05D - 4003

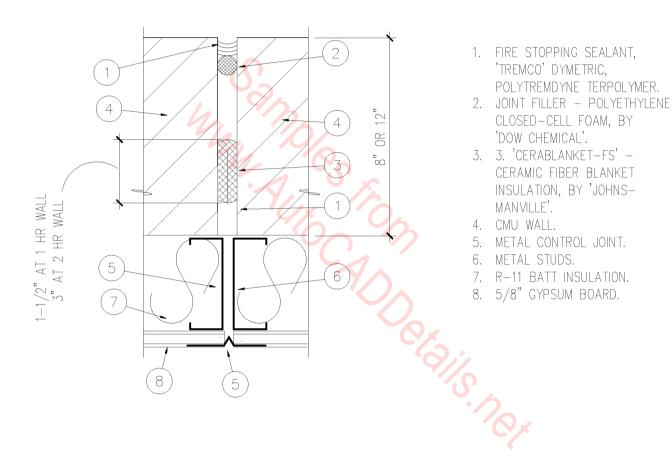


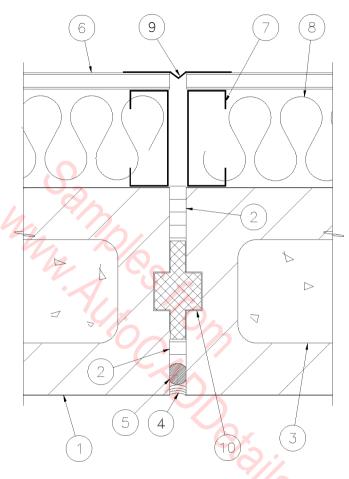




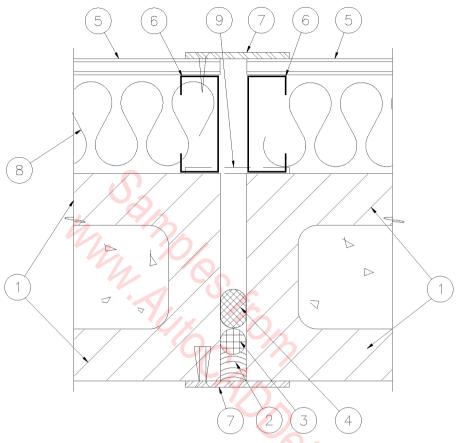






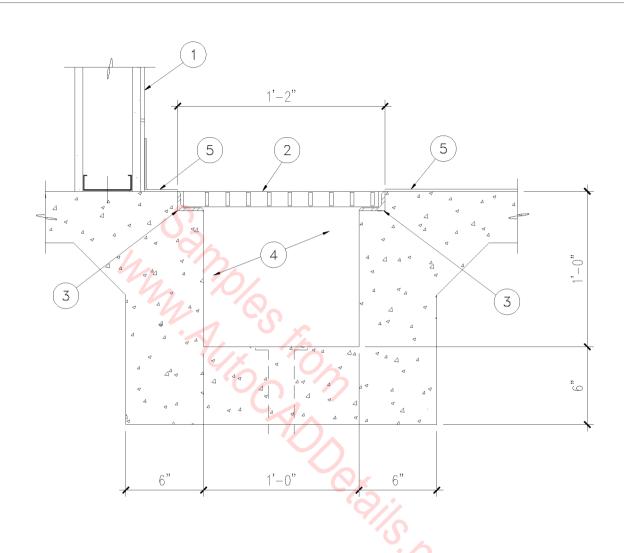


- 1. MASONRY.
- 2. COMPRESSIBLE JOINT MATERIAL.
- 3. FULLY GROUTED CELL BOTH SIDES OF JOINT.
- 4. SEALANT.
- 5. BACKER ROD.
- 6. WALL FINISH AS SCHEDULED.
- 7. METAL STUDS.
- 8. BATT INSULATION.
- 9. GYPSUM BOARD CONTROL JOINT.
- 10. PREMOLDED NEOPRENE GASKET.

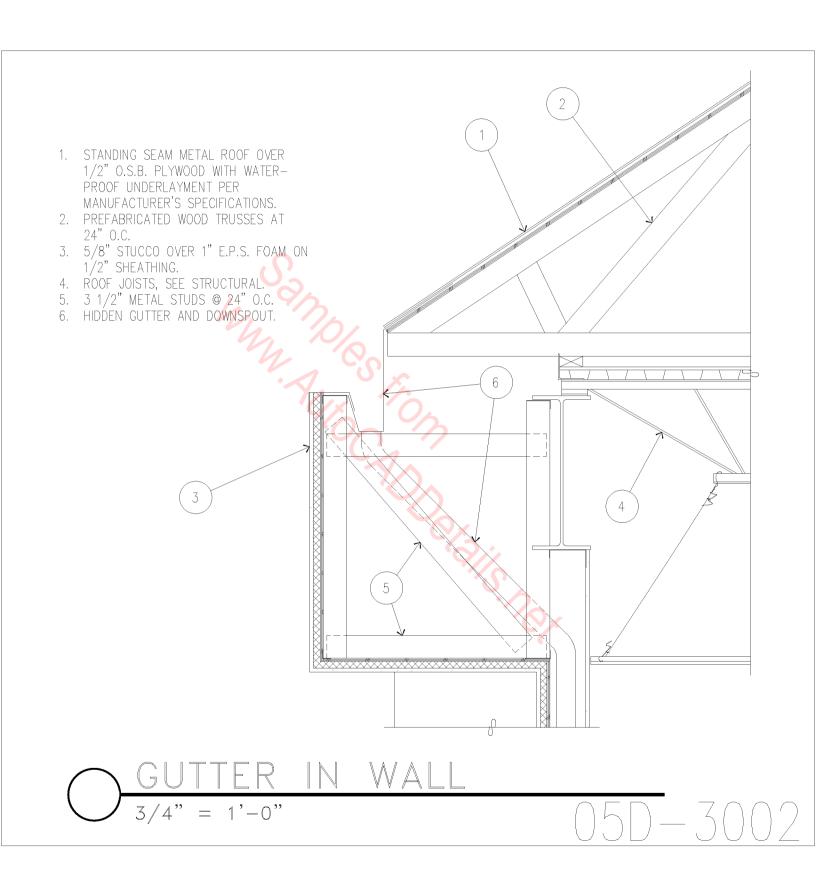


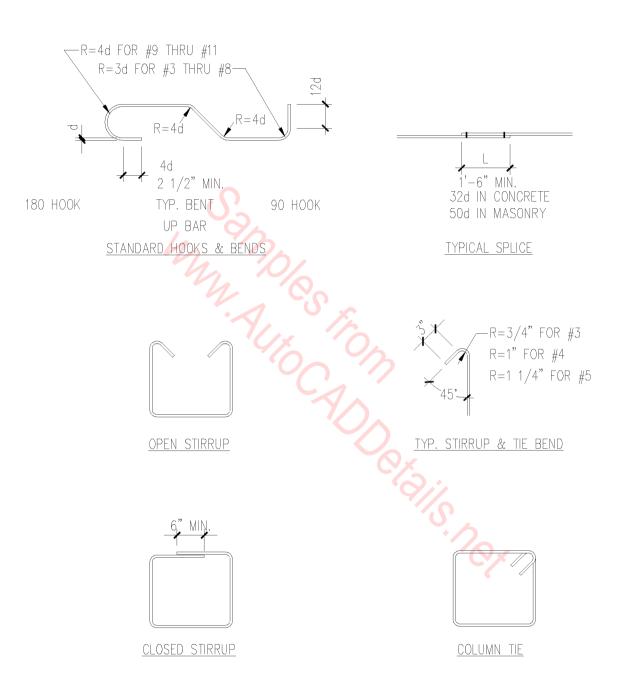
- MASONRY WALL.
 SEALANT, 7/8" MIN. DEPTH.
 BACKER ROD.

- BACKER ROD.
 CERAMIC FIBER BLANKET INSULATION: 1-1/2" AT 1 HOUR WALL,
 4-1/2" AT 4 HOUR RATED WALL.
 5/8" TYPE 'X' GYPSUM BOARD WHERE OCCURS.
 3-5/8" METAL STUDS, WHERE OCCURS.
 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE. SECURE AT EXTERIOR WITH
 1/4" FLAT HEAD EXPANSION ANCHORS IN COUNTERSUNK HOLES AT 24" O.C.
 SECURE AT INTERIOR WITH #12 SHEET METAL SCREWS AT 6" O.C. IN COUNTERSUNK HOLES. SECURE AT ONE SIDE OF EXPANSION JOINT ONLY.
 WALL INSULATION BATTS WHERE OCCURS.
- WALL INSULATION BATTS, WHERE OCCURS.
- STEEL CLOSURE LOCATION AT INTERIOR MASONRY CONDITION.



- CERAMIC TILE.
 3/4" THICK STEEL TRENCH GRATE
 STRUCTURAL STEEL ANGLE FRAME.
- 4. CONCRETE TRENCH.5. FINISH FLOOR.

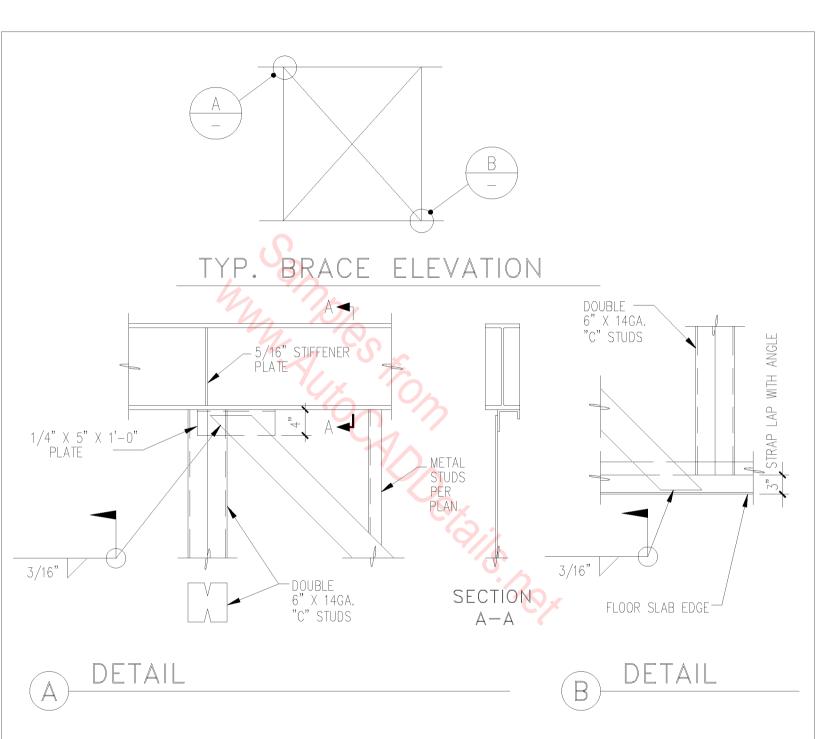




REINFORCING DETAILS

3/4" = 1'-0"

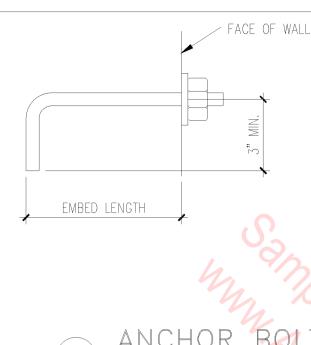
05D-1001



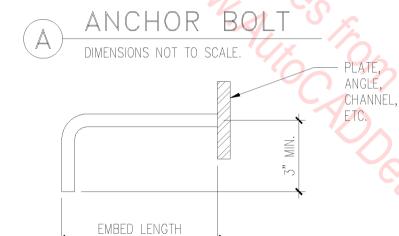
LATERAL BRACE DETAIL

3/4" = 1'-0"

05D-1002



ANCHOR BOLT SCHEDULE		
BOLT DIAMETER	VERTICAL BOLT EMBED LENGTH	VERTICAL BOLT EMBED LENGTH
1/2"	6"	4"
5/8"	6"	4"
3/4"	7"	5"
7/8"	8"	6"
1 "	9"	7"
1-1/4"	11"	9"
/ 1-1/2"	12"	10"



<u>NOTE:</u>

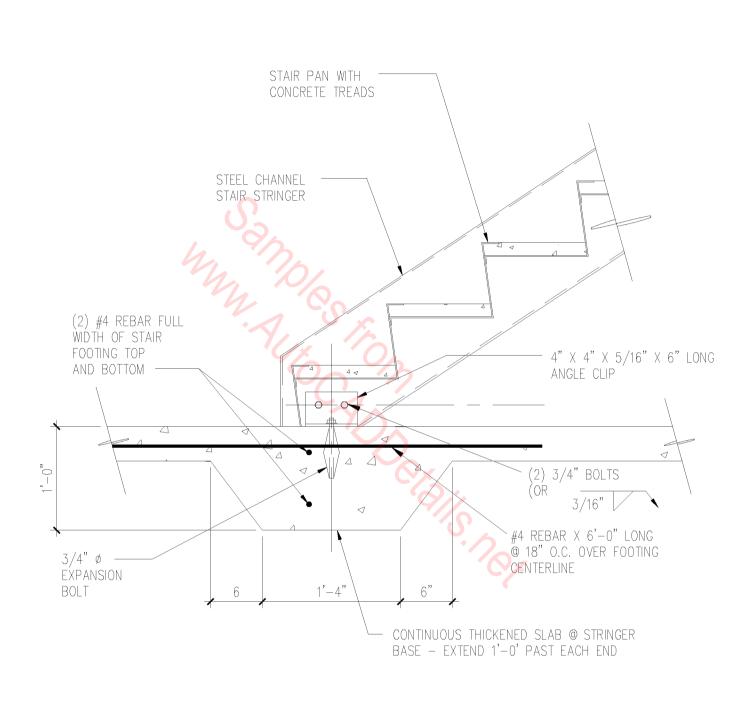
PROVIDE ANCHORS AND ANCHOR BOLTS PER THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.



ANCHOR BOLT SCHEDULE

3/4" = 1'-0'

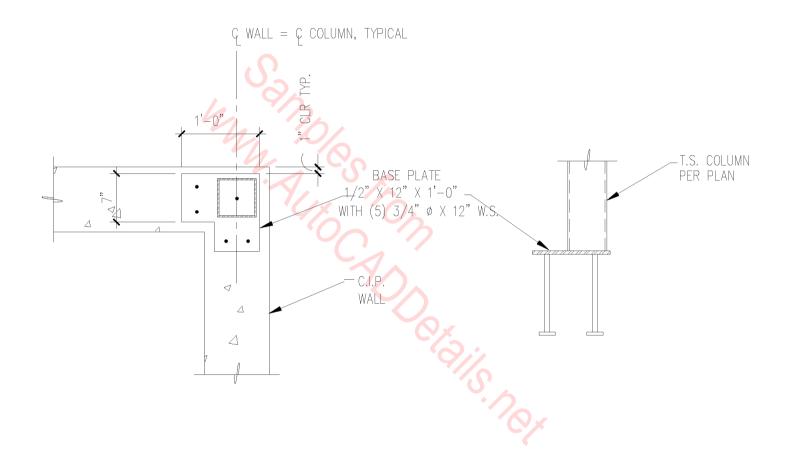
05D - 1003



STRINGER AT SLAB

3/4" = 1'-0"

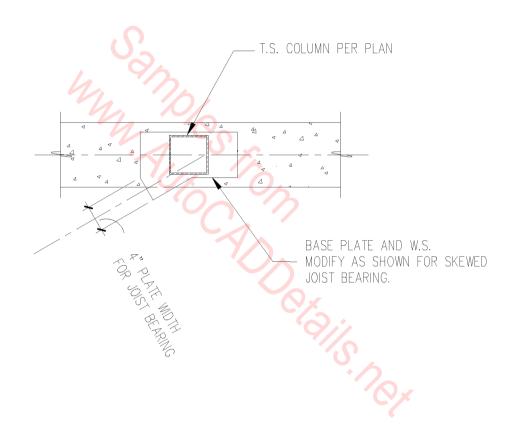
05D-1004

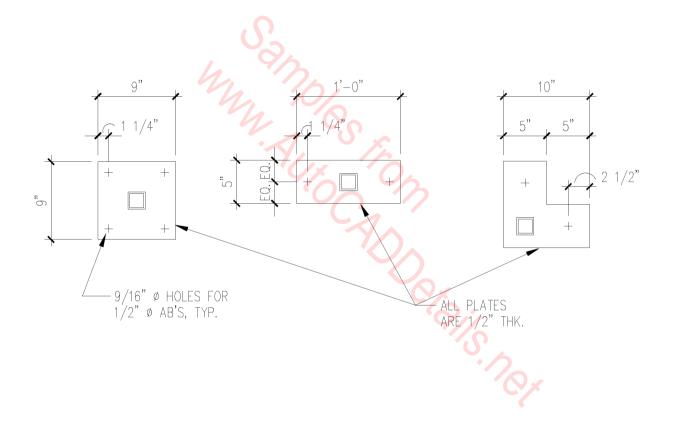


T.S. COL. AT C.I.P. WALL

3/4" = 1'-0"

05D-1005

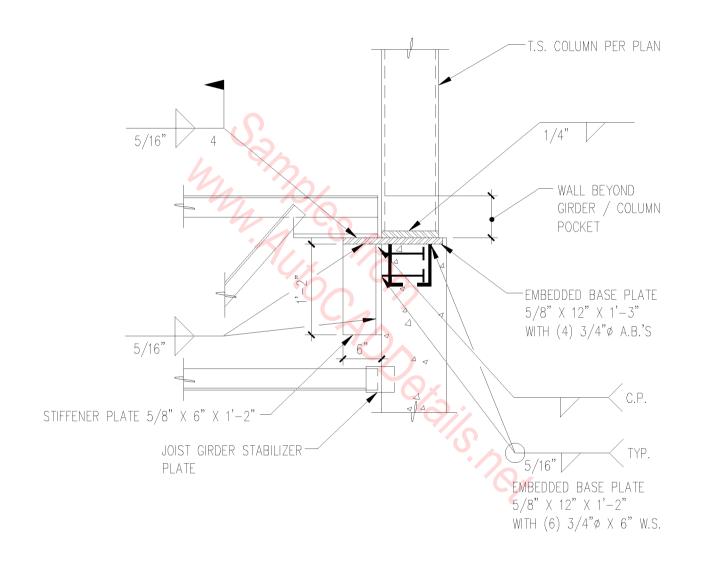




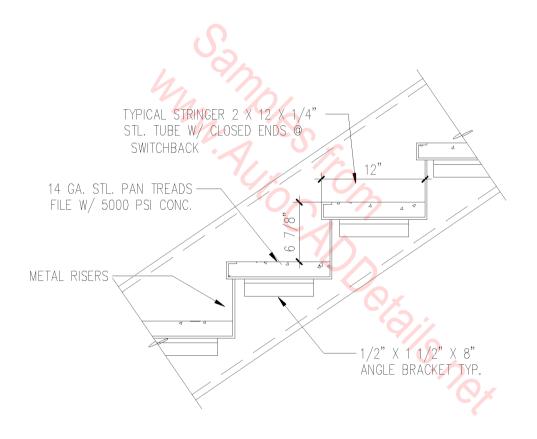
STEEL BASE PLATES

1" = 1'-0'

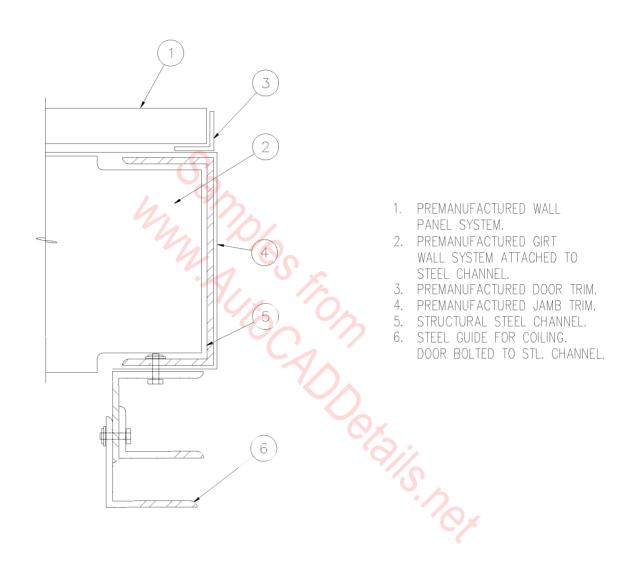
05D-1007

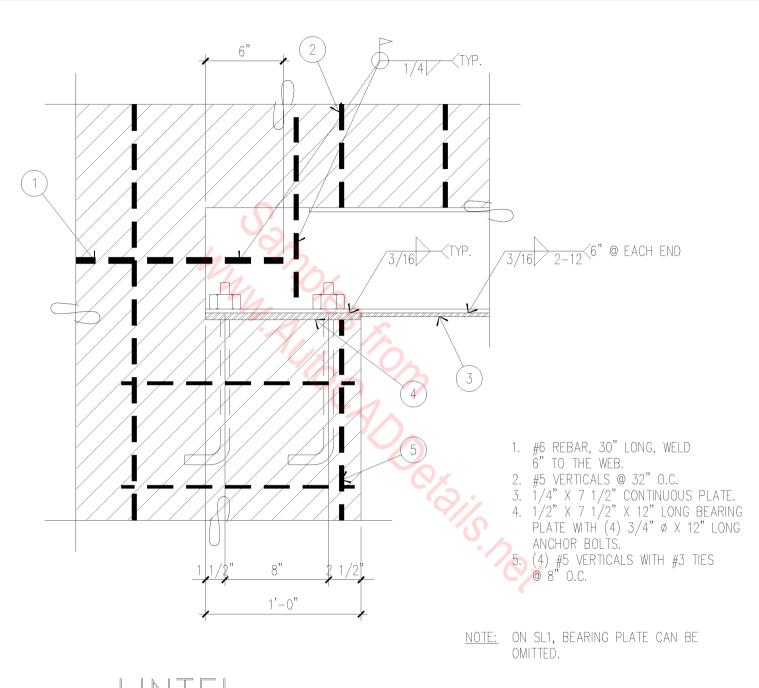






05D-1009

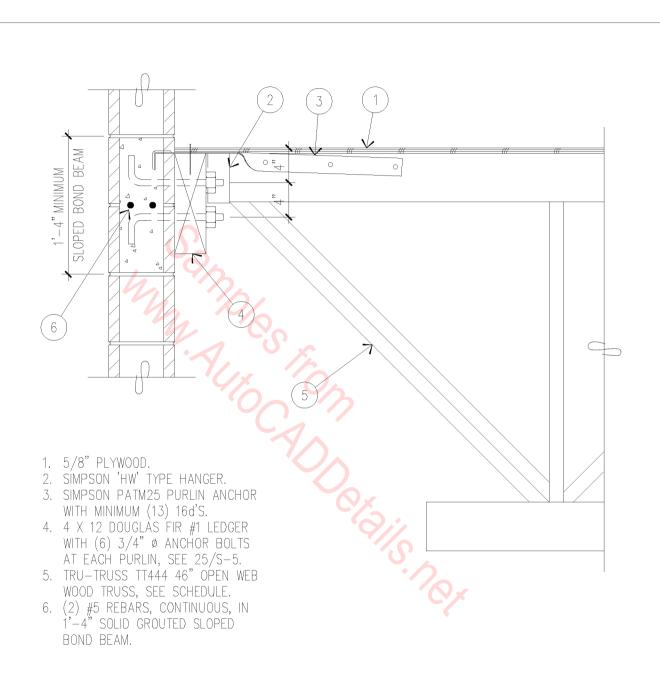




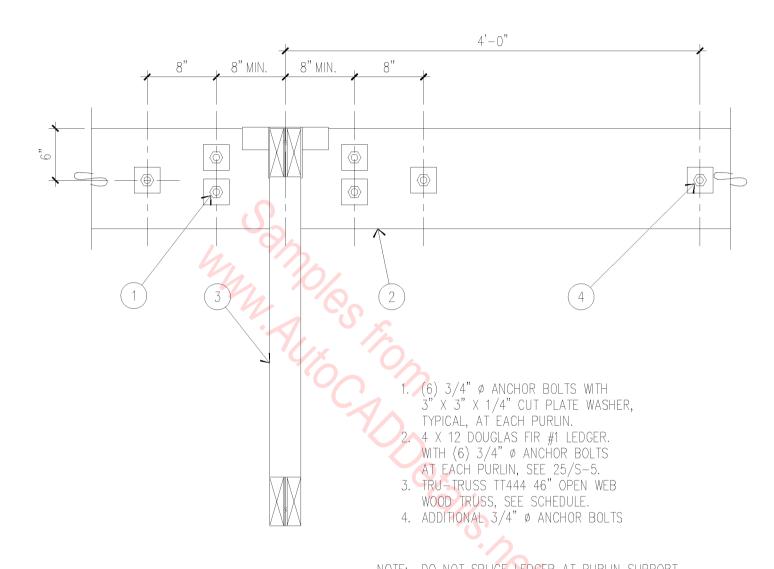
LINTEL BEARING AT JAMB

 $1 \ 1/2$ " = 1'-0'

 $\overline{05D} - 1011$



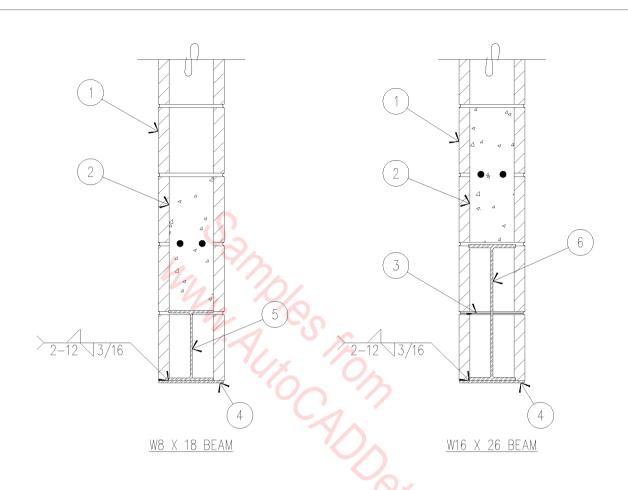




NOTE: DO NOT SPLICE LEDGER AT PURLIN SUPPORT, PROVIDE 2'-0" MINIMUM FROM PURLIN TO SPLICE.

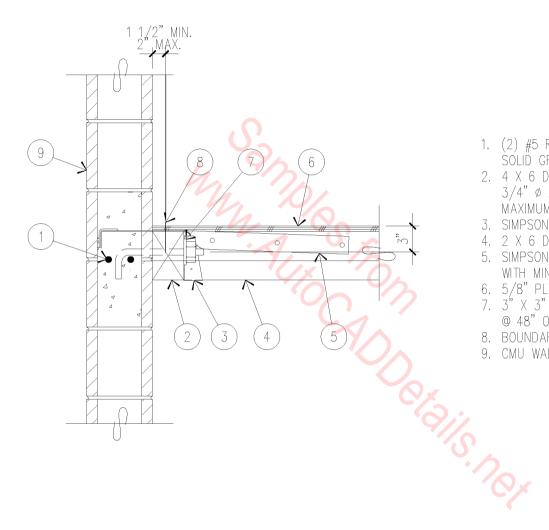
1" = 1'-0"

050-1013

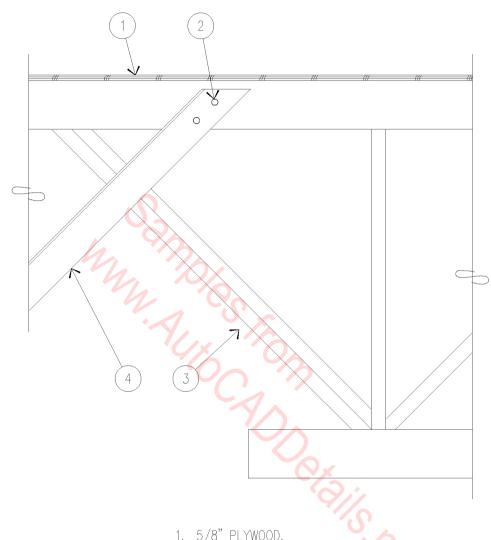


- 8" CMU WALL.
 1'-4" SOLID GROUTED BOND BEAM.
 GALVANIZED 1" X 16 GAUGE VENEER ANCHORS AT 16" O.C. EACH SIDE.
 7-1/2" X 1/4" CONTINUOUS PLATE.
- 5. W8 X 18 WIDE FLANGE BEAM, SEE SCHEDULE ON SHEET S-2.
- 6. W16 X 26 WIDE FLANGE BEAM, SEE SCHEDULE ON SHEET S-2.

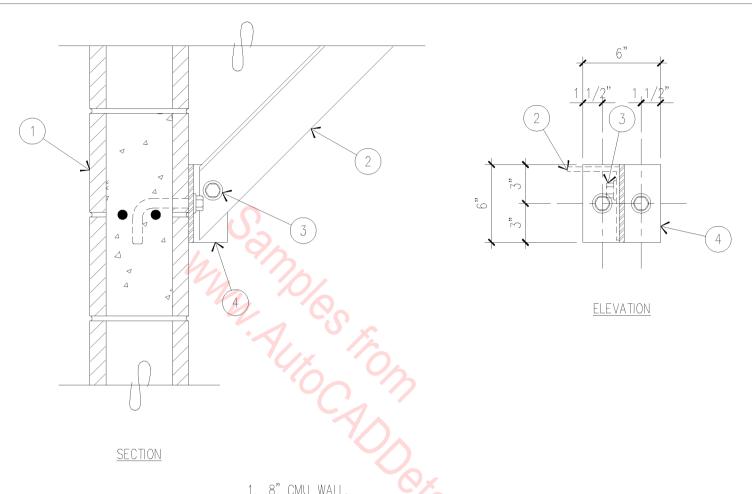
- A. WELD VERTICAL WALL REINFORCEMENT TO STEEL LINTELS.
- B. SHORE LINTEL AT MIDSPAN UNTIL CMU REACHES FULL STRENGTH.
- C. SEE ROOF FRAMING PLAN ON SHEET S-2 FOR LINTEL LOCATIONS.



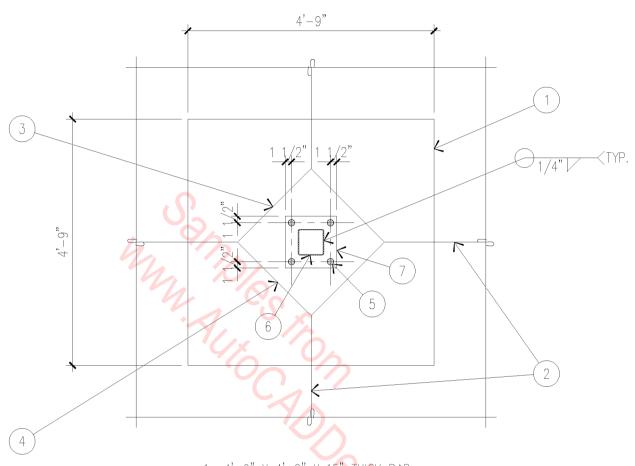
- 1. (2) #5 REBARS, CONTINUOUS, IN 1'-4" SOLID GROUTED BOND BEAM.
- 2. 4 X 6 DOUGLAS FIR LEDGER WITH 3/4" Ø ANCHOR BOLTS @ 4'-0" O.C., MAXIMUM.
- 3. SIMPSON HUS26 HANGER, OR EQUAL.
- 4. 2 X 6 DOUGLAS FIR SUB-PURLIN.
- 5. SIMPSON PATM25 PURLIN ANCHOR WITH MINIMUM (13) 16d'S.
- 6. 5/8" PLYWOOD.
- 7. 3" X 3" X 1/4" PLATE WASHER @ 48" O.C., MAXIMUM.
- 8. BOUNDARY NAILING.
- 9. CMU WALL.



- 1. 5/8" PLYWOOD.
 2. (2) 3/4" Ø MACHINE BOLTS.
 3. TT444 WOOD PURLIN @ 8'-0" O.C.
 4. 4" X 4" X 1/4" STEEL ANGLE BRACE AT EACH PURLIN.



- 1. 8" CMU WALL.
- 2. 4" X 4" X 1/4" STEEL ANGLE BRACE AT 8'-0" O.C.
- 3. (1) 3/4" MACHINE BOLT. 4. 6" X 6" X 3/8" STEEL ANGLE WITH (2) 3/4" 'RED-HEADS' OR N.S.

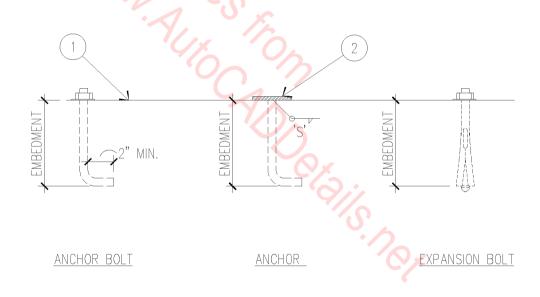


- 1. 4'-9" X 4'-9" X 15" THICK PAD WITH (4) #5 REBARS, EACH WAY.
- WITH (4) #3 NEDANS, LONG.

 2. WEAKENED PLANE OR CON-STRUCTION JOINT.
- 3. 24" BOX OUT, FILL WITH CONCRETE AFTER COLUMN IS SET.
- 4. TOOL JOINT.
- 5. (4) 3/4" Ø ANCHOR BOLTS WITH
 4" HOOK AND MINIMUM 8" EMBED.
 6. 6" X 6" X 3/16" TUBE STEEL COLUMN.
 7. 12" X 12" X 3/4" COLUMN BASE PLATE.

1/2" = 1'-0"

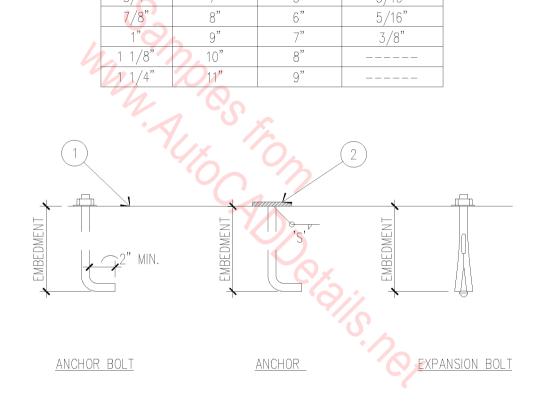
BOLT	VERT. BOLT	HORIZ. BOLT	HEADED STUD
DIAMETER	EMBEDMENT	EMBEDMENT	FILLET WELD
	LENGTH	LENGTH	SIZE, 'S'
1/2"	6"	4"	1/4"
5/8"	6"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1 1/8"	10"	8"	
1 1/4"	11"	9"	



- FACE OF WALL, TOP OF WALL, COLUMN, ETC.
 PLATE, ANGLE, CHANNEL, ETC.



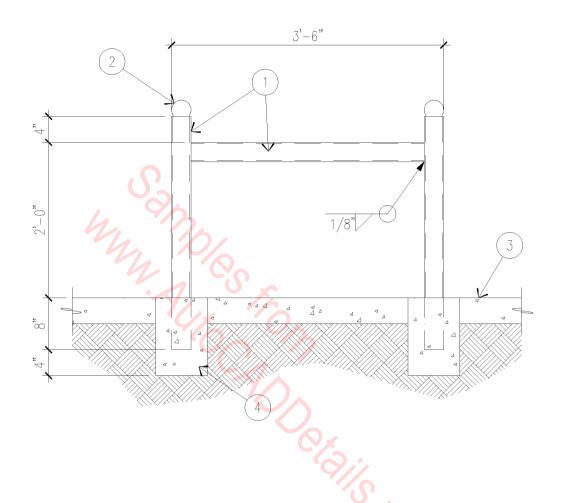
BOLT	VERT. BOLT	HORIZ. BOLT	HEADED STUD
DIAMETER	EMBEDMENT	EMBEDMENT	FILLET WELD
	LENGTH	LENGTH	SIZE, 'S'
1/2"	6"	4"	1/4"
5/8"	6"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1 1/8"	10"	8"	
11/4"	11"	9"	



- 1. FACE OF WALL, TOP OF WALL, COLUMN, ETC.
- 2. PLATE, ANGLE, CHANNEL, ETC.

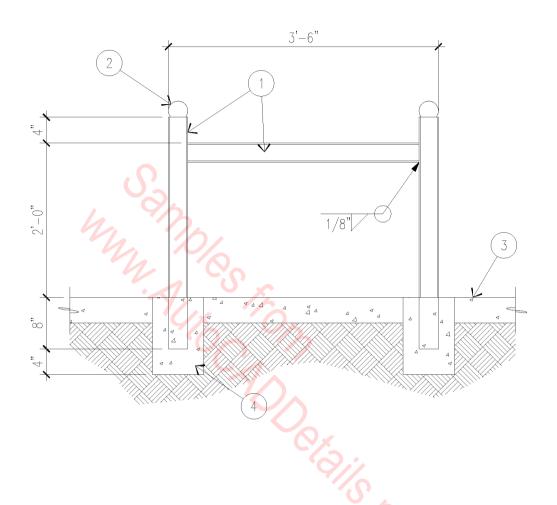


<u>05D</u>-1019



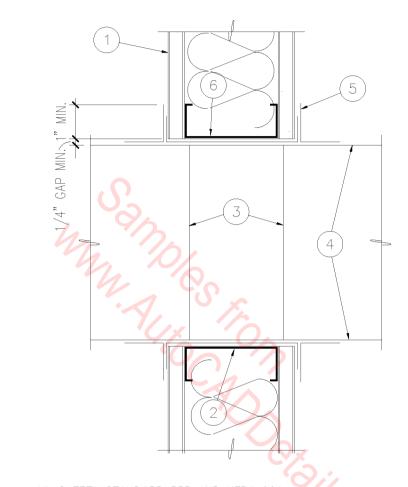
- 1. 3" X 3" X 3/16" TUBE STEEL.
 2. 3" Ø BALL CAP.
 3. 4" CONCRETE SIDEWALK.
 4. 8" Ø X 12" FOOTING.

3/4" = 1'-0"



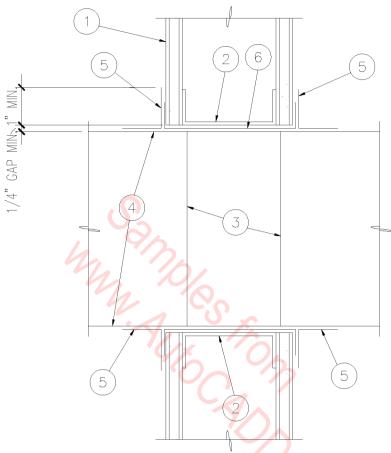
- 1. 3" X 3" X 3/16" TUBE STEEL.
 2. 3" Ø BALL CAP.
 3. 4" CONCRETE SIDEWALK.
 4. 8" Ø X 12" FOOTING.

3/4" = 1'-0"

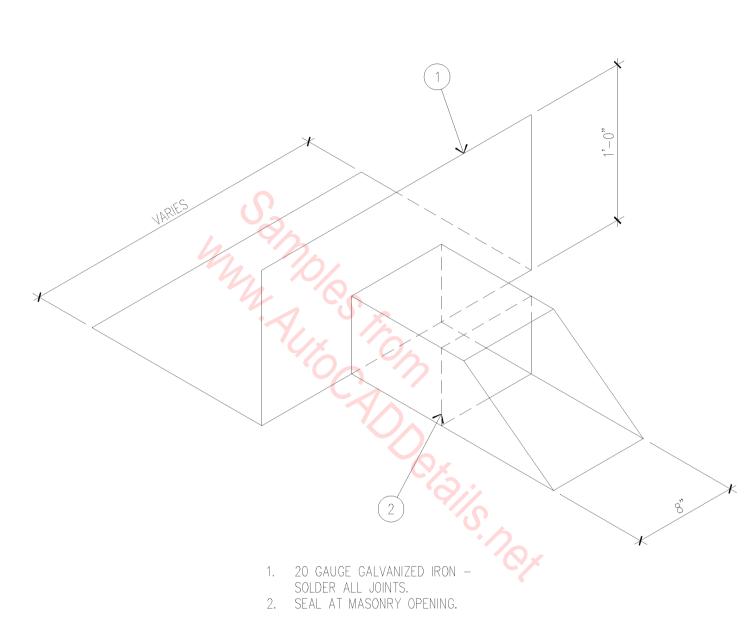


UL SAFETY STANDARD 555 AND NFPA 90A

- 1. ONE HOUR WALL UL DESIGN NO. U465.
- 2. METAL RUNNER.
- 3. FIRE OR LEAKAGE (SMOKE) DAMPER. SEE MECHANICAL FOR TYPE AND LOCATION.
- 4. DAMPER SLEEVE SHALL NOT EXTEND MORE MORE THAN 9" ON THE OPERATOR/ACTUATOR SIDE.
 5. ANGLE 1-1/2" X 1-1/2" X 14 GAGE.
- 6. 22 GA. G. I. SLEEVE.



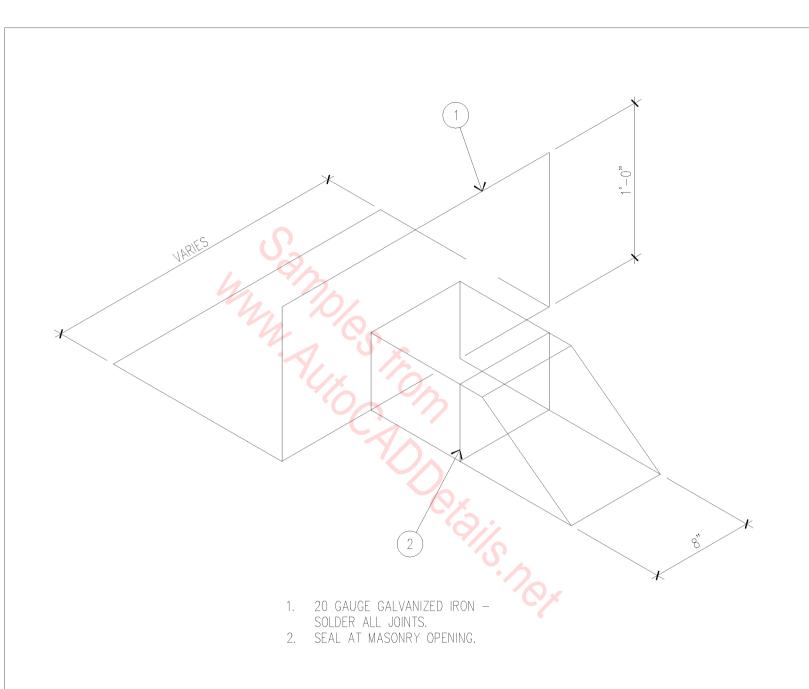
- UL SAFETY STANDARD 555 AND NFPA 90A
- 1. ONE HOUR WALL UBC 43-B, 15-1.1.
- 2. METAL RUNNER.
- 3. FIRE OR LEAKAGE (SMOKE) DAMPER.
 SEE MECHANICAL FOR TYPE AND
 LOCATION.
- 4. DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" BEYOND THE FIRE WALL AND NOT MORE THAN 9" ON THE OPERATOR/ACTUATOR SIDE.
- 5. ANGLE 1-1/2" X 1-1/2" X 14 GAGE.
- 6. 22 GA. G. I. SLEEVE.



SCUPPER FLASHING

 $1 \ 1/2$ " = 1'-0"

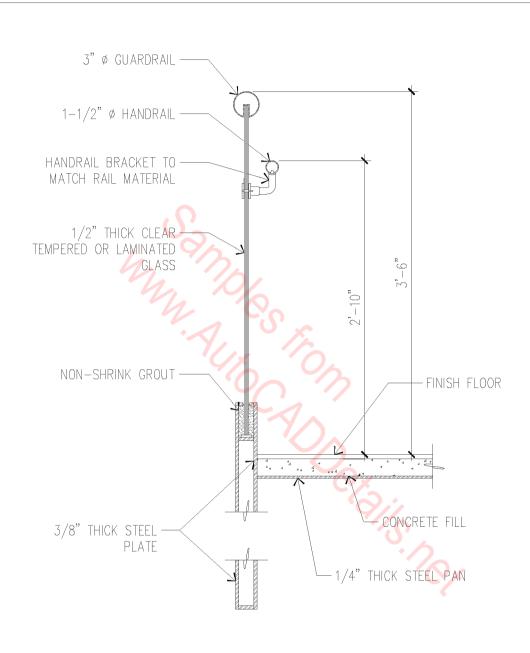
05D - 2003



SCUPPER FLASHING

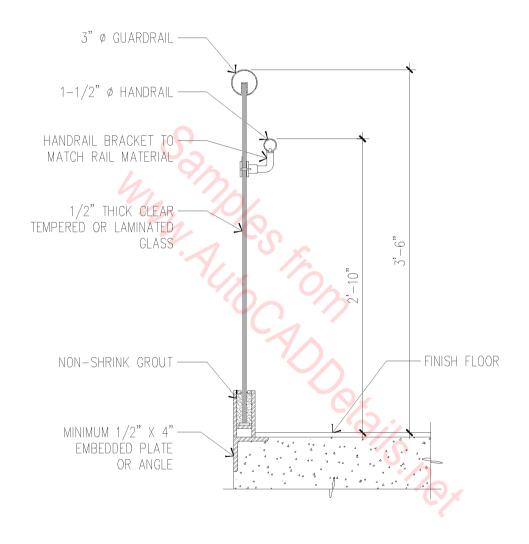
 $1 \ 1/2$ " = 1'-0"

05D - 2003



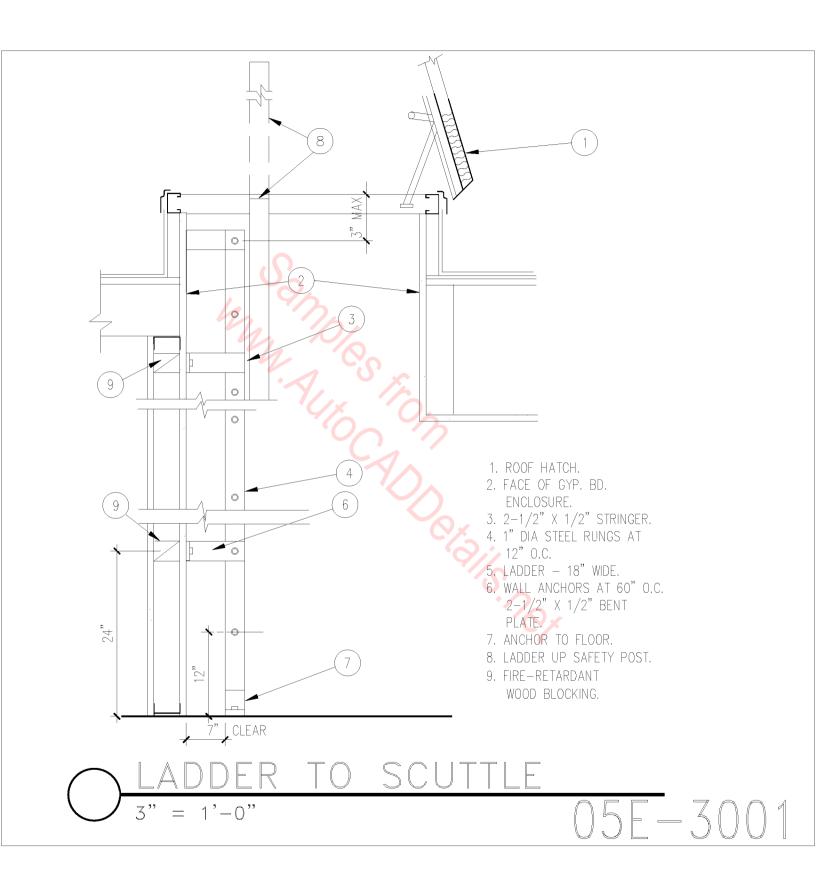


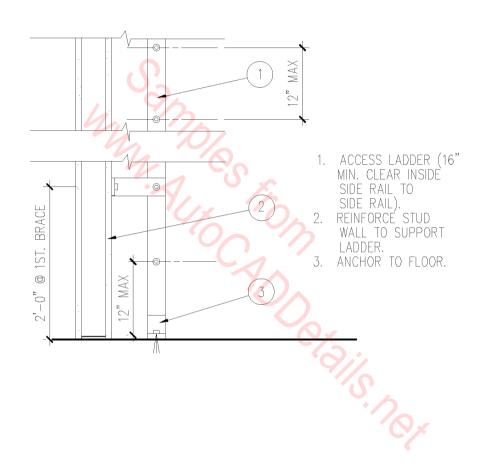
05E - 4001

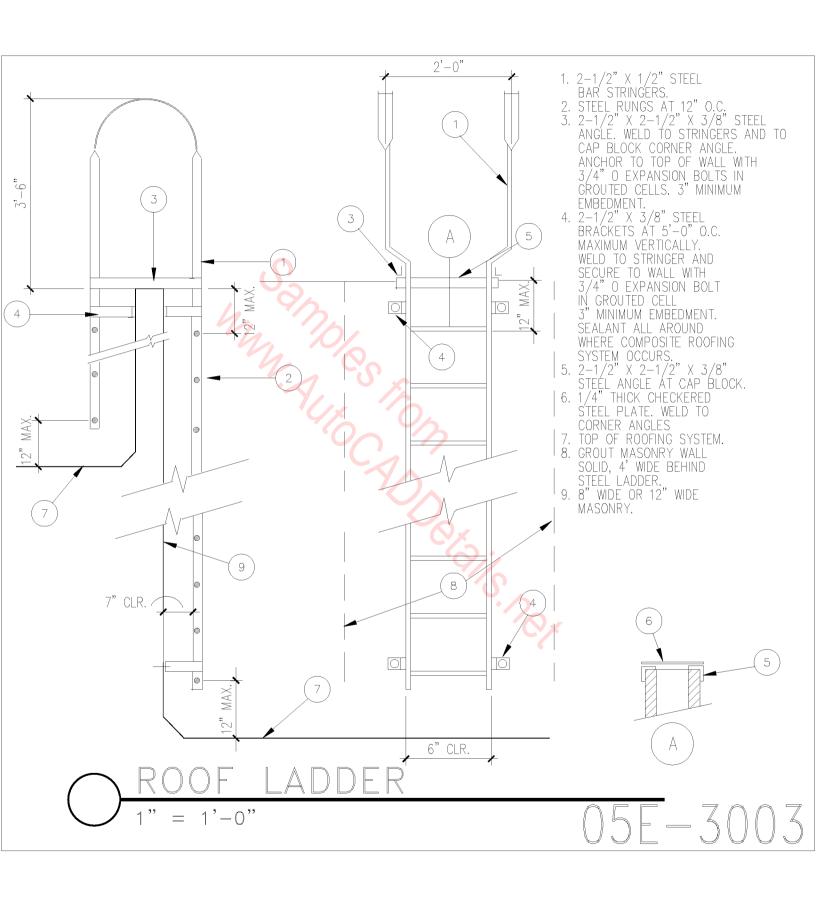


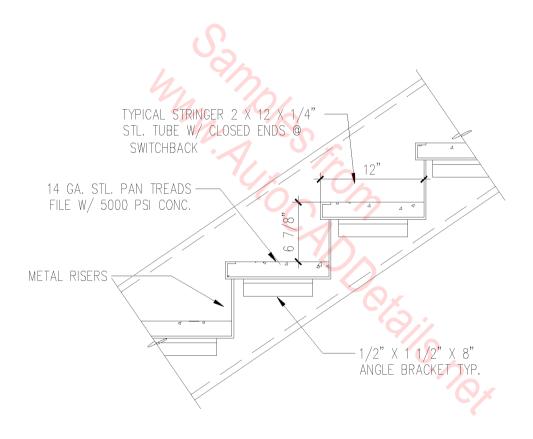


05<u>E</u>-4002

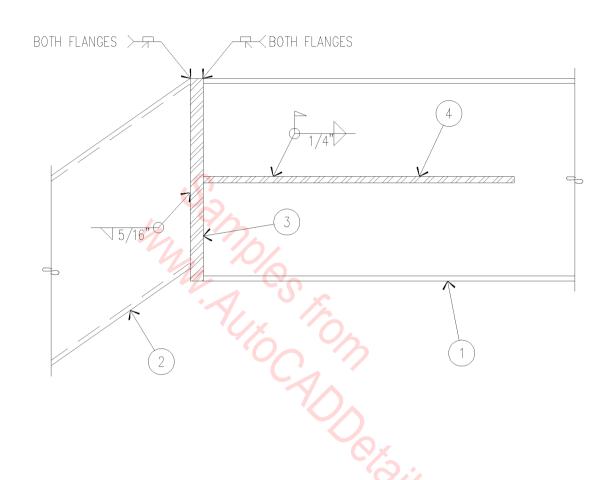




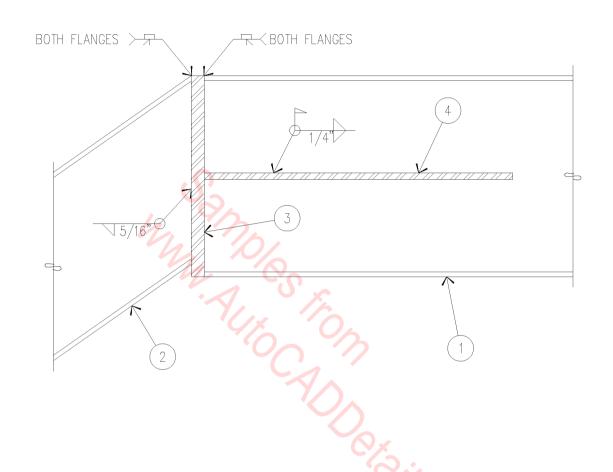




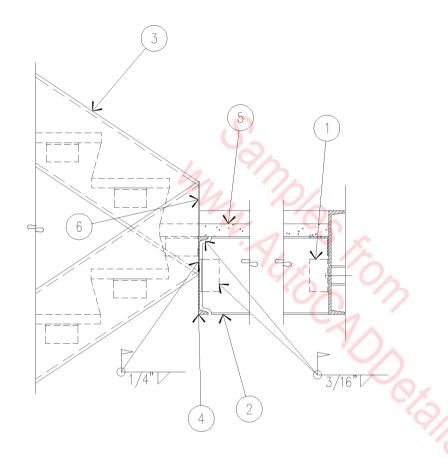
05E-1001



- WIDE FLANGE BEAM PER PLAN.
 TUBE STEEL STRINGER PER PLAN.
 1" X (BEAM DEPTH) X (BEAM FLANGE WIDTH) PLATE.
 1" X 2'-0" X 1/2" THICK PLATE, EACH
- SIDE.

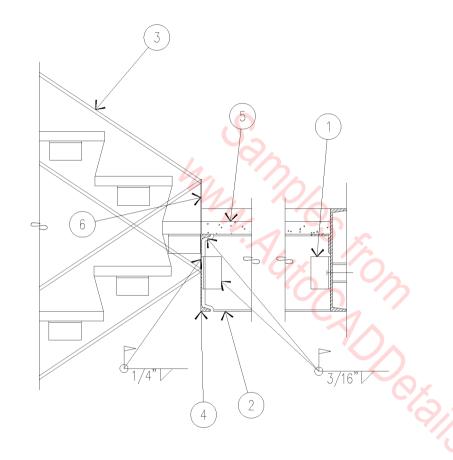


- WIDE FLANGE BEAM PER PLAN.
 TUBE STEEL STRINGER PER PLAN.
 1" X (BEAM DEPTH) X (BEAM FLANGE
- WDTH) PLATE.
 4. 1" X 2'-0" X 1/2" THICK PLATE, EACH SIDE.

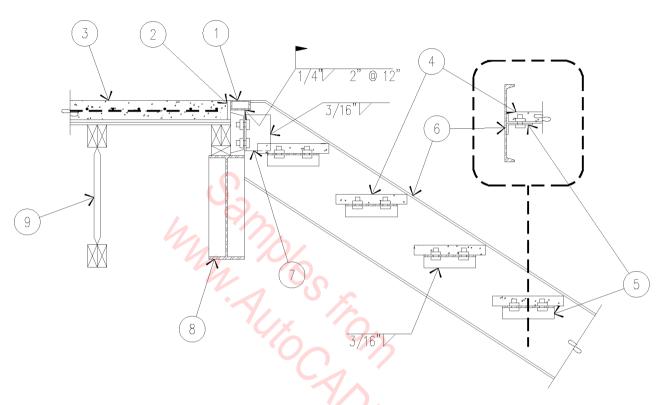


- 3" X 3" X 1/4" X 5" ANGLE (TYPICAL) AT HEADER TO STRINGER OR STRINGER TO STRINGER.
- STIFFENER.

- MC 12 X 10.6 STRINGER (TYPICAL).
 MC 12 X 10.6 HEADER.
 2" CONCRETE REINFORCED WITH 6 X 6 WELDED WIRE FABRIC (W2.9 X W2.9)
 ON A 12 GAUGE PAN OVER L 3" X 3"
 X 1/4" STIFFENERS (LLV) AT 24" O.C.
- ON LANDING. 3/16" STEEL CLOSURE PLATE.

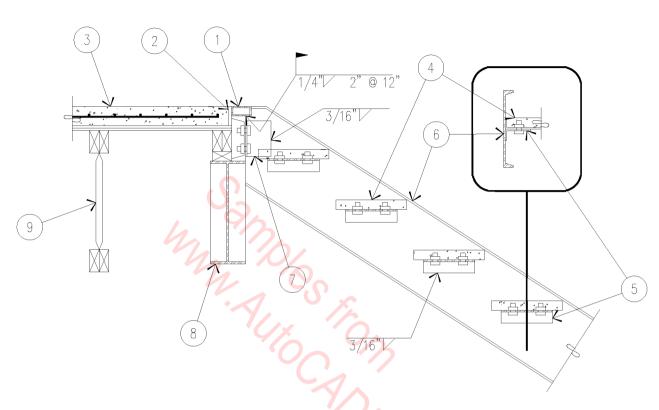


- 3" X 3" X 1/4" X 5" ANGLE (TYPICAL) AT HEADER TO STRINGER OR STRINGER TO STRINGER.
- STIFFENER.
- MC 12 X 10.6 STRINGER (TYPICAL). MC 12 X 10.6 HEADER.
- 2" CONCRETE REINFORCED WITH 6 X 6 WELDED WIRE FABRIC (W2.9 X W2.9) ON A 12 GAUGE PAN OVER L 3" X 3" X 1/4" STIFFENERS (LLV) AT 24" O.C. ON LANDING.
- 3/16" STEEL CLOSURE PLATE.



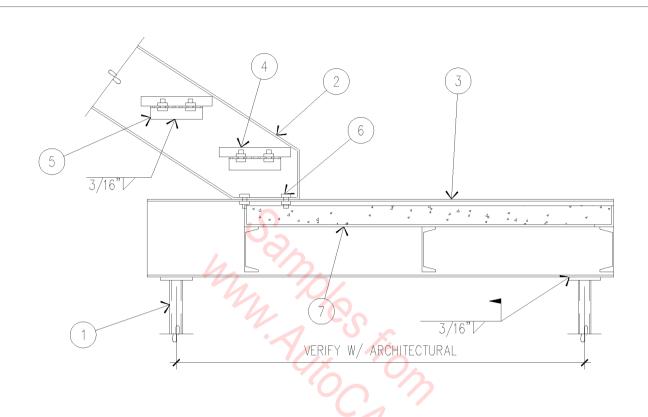
- TUBE STEEL 3" X 1 1/2" X 3/16" WELDED TO C 7" X 9.8" HEADER.
 1/2" EXPANSION JOINT MATERIAL.
- 3. 3" CONCRETE SLAB OVER WATERPROOF MEMBRANE.
- 4. 1 1/2" CONCRETE TREAD PAN SIZE AND
- STEP HEIGHT PER ARCHITECTURAL.

 5. L 2" X 4" X 8" X 1/4" WITH (2) 1/2"
 THROUGH BOLTS.
- MC 12 X 10.6 STRINGERS.
- 7. L 2" X 4" X 5 1/2" X 1/4" WITH (2) 3/4" Ø THROUGH BOLTS.
- 8. W 16 X 26 WIDE FLANGE BEAM WITH WEB STIFFENER AT EACH BEARING.
- 9. 22" TJ's AT 24" O.C.



- TUBE STEEL 3" X 1 1/2" X 3/16" WELDED TO C 7" X 9.8" HEADER. 1/2" EXPANSION JOINT MATERIAL.
- 3. 3" CONCRETE SLAB OVER WATERPROOF
- MEMBRANE.
 4. 1 1/2" CONCRETE TREAD PAN SIZE AND STÉP HEIGHT PER ARCHITECTURAL.
- 5. L 2" X 4" X 8" X 1/4" WITH (2) 1/2" ø THROUGH BOLTS.
- 6. MC 12 X 10.6 STRINGERS. 7. L 2" X 4" X 5 1/2" X 1/4" WITH (2) 3/4" Ø THROUGH BOLTS.
- 8. W 16 X 26 WIDE FLANGE BEAM WITH WEB STIFFENER AT EACH BEARING.
- 9. 22" TJ's AT 24" O.C.

= 1'-0"



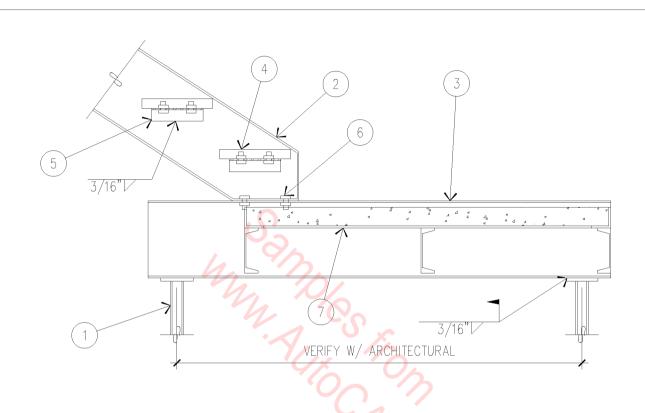
- TUBE STEEL COLUMN WITH 3" X 3" X 3/8" CAP PLATE.
- MC 12 X 10.6 STRINGERS.
- 3. 3" CONCRETE SLAB ON METAL DECKING -REINFORCE SLAB WITH 6 X 6 WELDED

 WIRE FABRIC.

 4. 1 1/2" CONCRETE TREAD PAN – SIZE AND

 STEP HEIGHT PER ARCHITECTURAL.

 5. L 2" X 4" X 8" X 1/4" WITH (2) 1/2" Ø
- THROUGH BOLTS.
- CONNECT STRINGERS WITH (2) 1/2" Ø
- THROUGH BOLTS.
 7. CONTINUOUS L 3" X 3" X 1/4" WELDED TO C 6 X 8.2.

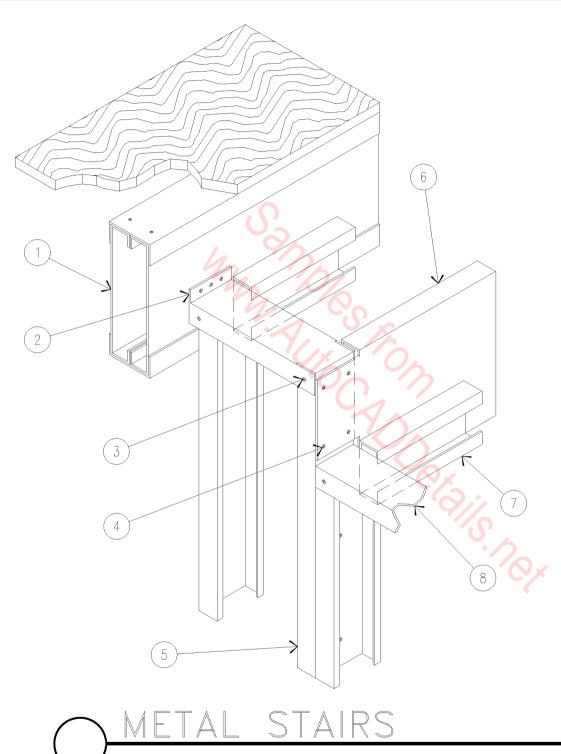


- TUBE STEEL COLUMN WITH 3" X 3" X 3/8" CAP PLATE.
- MC 12 X 10.6 STRINGERS.
- 3. 3" CONCRETE SLAB ON METAL DECKING -REINFORCE SLAB WITH 6 X 6 WELDED
- WIRE FABRIC.

 4. 1 1/2" CONCRETE TREAD PAN SIZE AND STEP HEIGHT PER ARCHITECTURAL.

 5. L 2" X 4" X 8" X 1/4" WITH (2) 1/2" Ø
- THROUGH BOLTS.
- CONNECT STRINGERS WITH (2) 1/2" Ø
- THROUGH BOLTS.
 7. CONTINUOUS L 3" X 3" X 1/4" WELDED TO C 6 X 8.2.

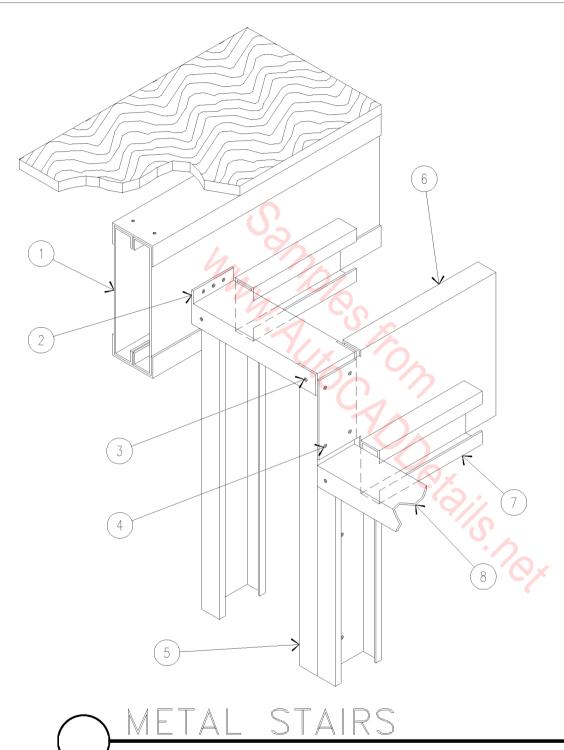
= 1'-0"



- BOXED BEAM OR HEADER -SEE PLAN.
- BEND WEB AND SCREW TO BEAM WITH (3) #10 SCREWS (TYPICAL).
- (1) #8 SCREW EACH SIDE OF ÈÁCH STUD (TYPICAL).
- CONNECT WITH (4) #10 SCREWS, MINIMUM, "EACH END (TYPICAL).
- DOUBLE STUD LOCATED AT EACH RISER - SCREW BACK TO BACK.
- 6. 10" X 16 GAUGE METAL STUD -CUT FLANGES AND EXTEND WEB FOR CONNECTION (TYPICAL FOR EACH RISER).
- 2 1/2" X 20 GAUGE METAL STUD WITH #10 SCREWS AT 6" O.C. ACROSS STAIR WIDTH (TYPICAL). 20 GAUGE TOP TRACK AT
- EACH LANDING (TYPICAL).

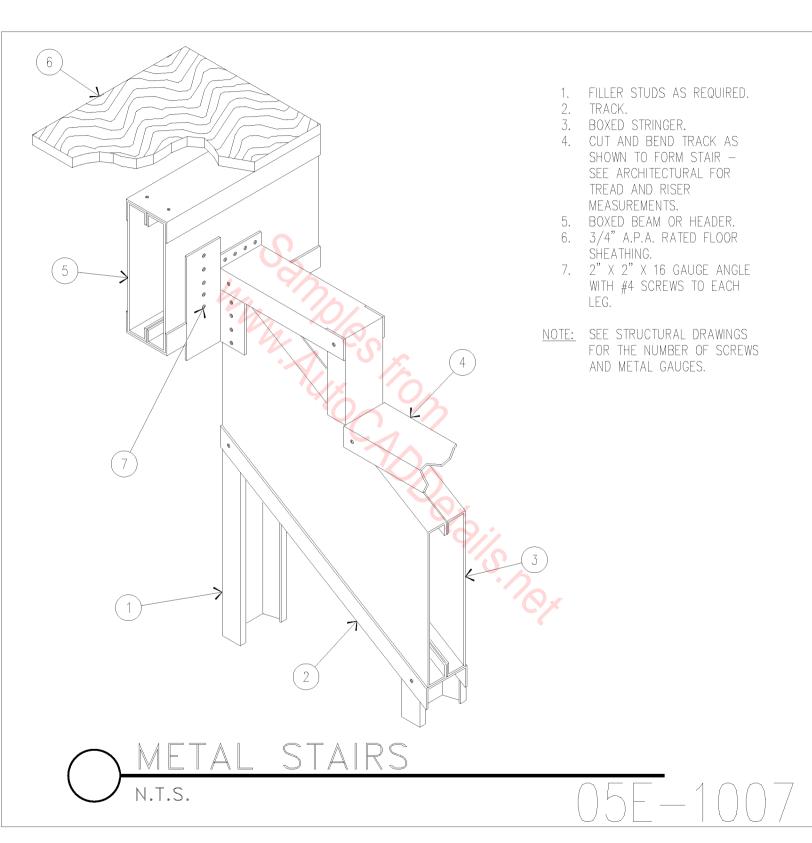
N.T.S.

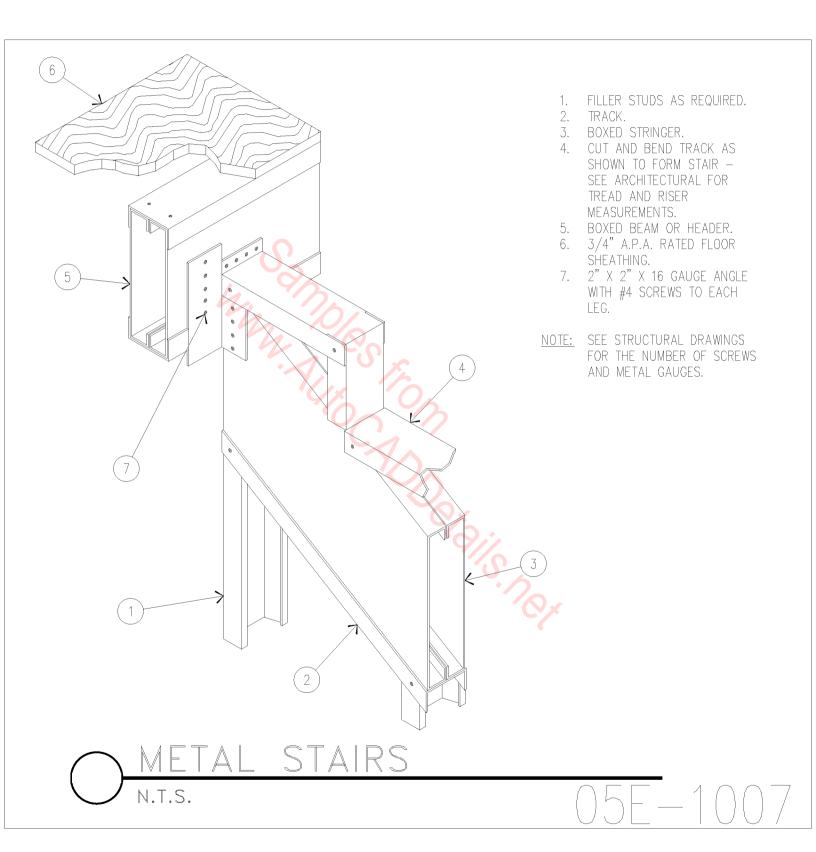
0.5F - 1006

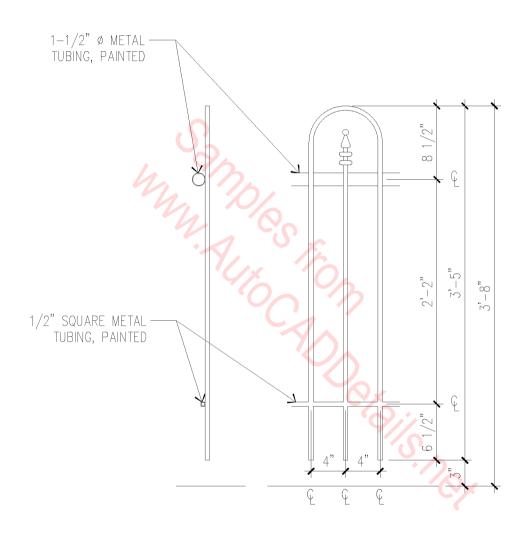


- BOXED BEAM OR HEADER -SEE PLAN.
- BEND WEB AND SCREW TO BEAM WITH (3) #10 SCREWS (TYPICAL).
- (1) #8 SCREW EACH SIDE OF EACH STUD (TYPICAL).
- CONNECT WITH (4) #10 SCREWS, MINIMUM, "EACH END (TYPICAL).
- DOUBLE STUD LOCATED AT EACH RISER - SCREW BACK TO BACK.
- 6. 10" X 16 GAUGE METAL STUD -CUT FLANGES AND EXTEND WEB FOR CONNECTION (TYPICAL FOR EACH RISER).
- 2 1/2" X 20 GAUGE METAL STUD WITH #10 SCREWS AT 6" O.C. ACROSS STAIR WIDTH (TYPICAL). 8. 20 GAUGE TOP TRACK AT
- EACH LANDING (TYPICAL).

N.T.S.



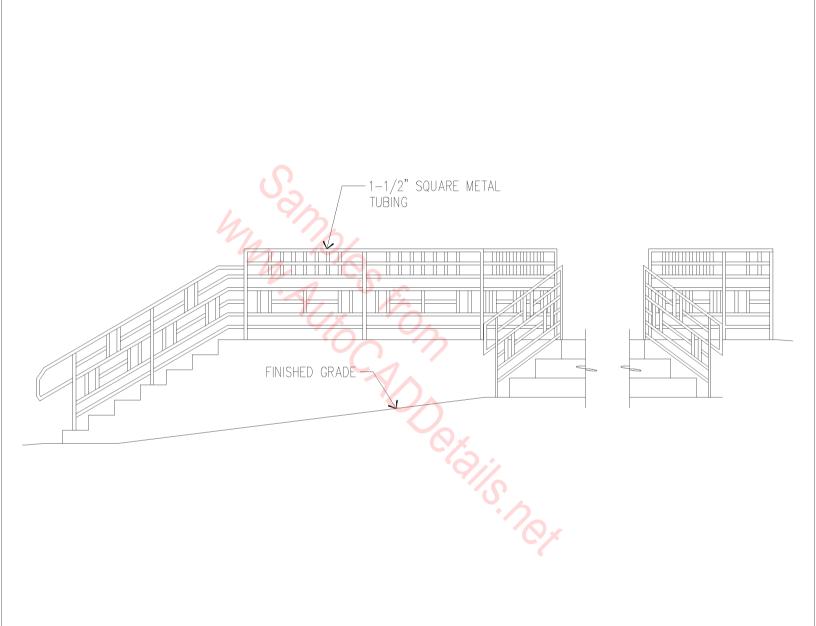




EXTERIOR GUARDRAIL

1" = 1' - 0"

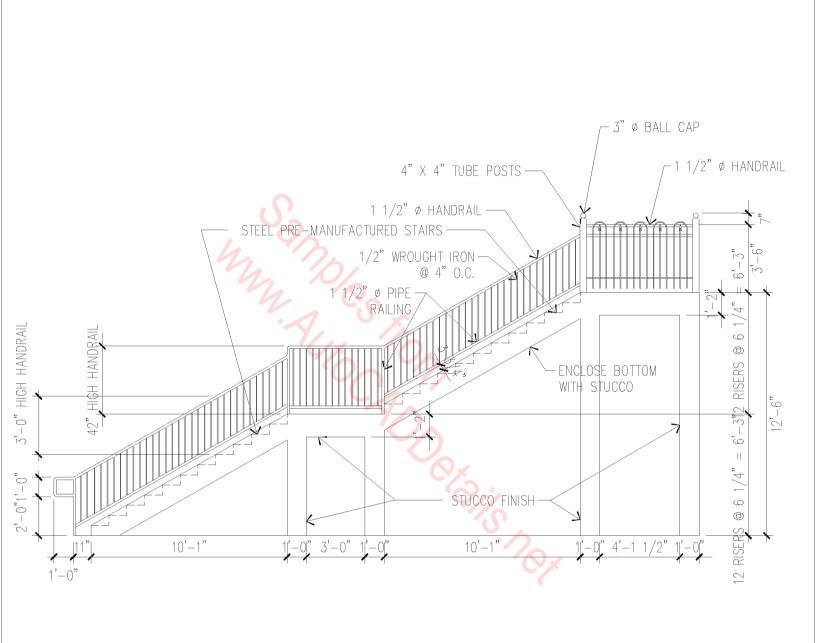
05E-7001



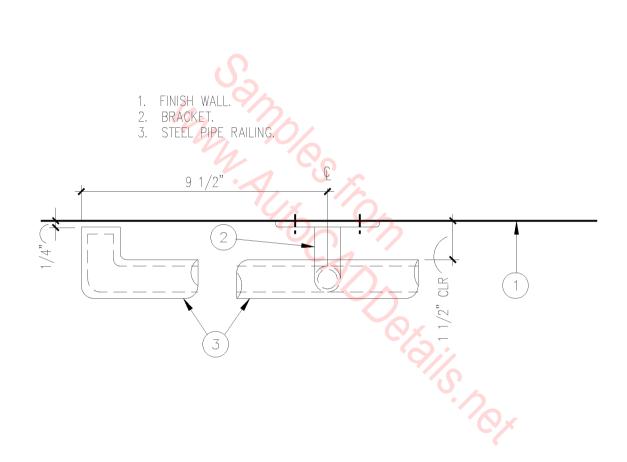
EXTERIOR GUARDRAIL

1/4" = 1'-0'

05E-7002



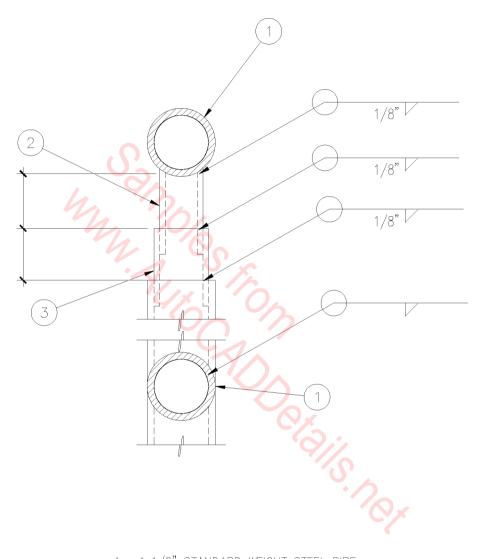
ORNAMENTAL STEEL STAIRS 3/16" = 1'-0" 05E-6001



HANDRAIL TERMINATION

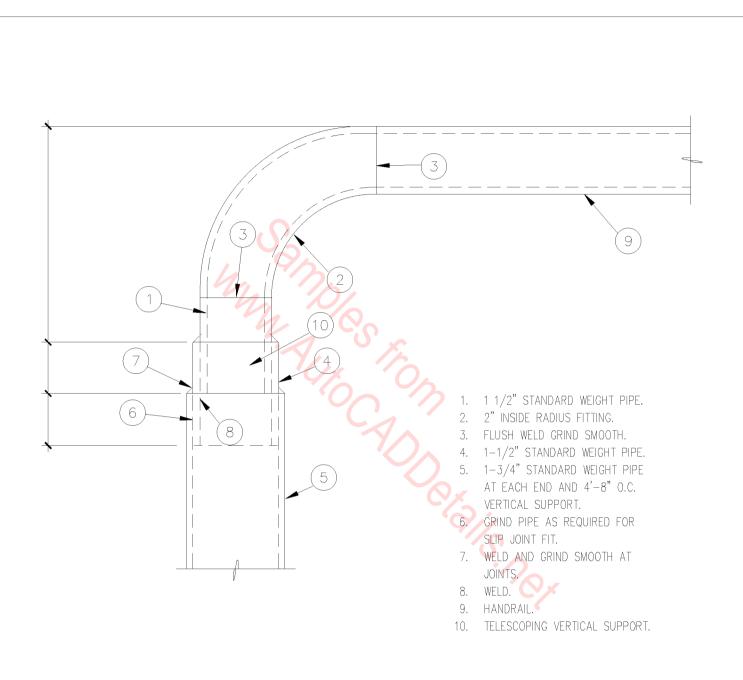
SCALE: 3" = 1'-0"

<u>05F-</u>5001



- 1 1/2" STANDARD WEIGHT STEEL PIPE.
 1/2" STANDARD WEIGHT STEEL PIPE.
 3/4" STANDARD WEIGHT STEEL PIPE.

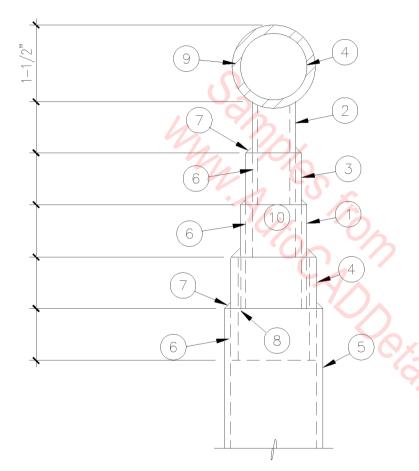
05E-5002



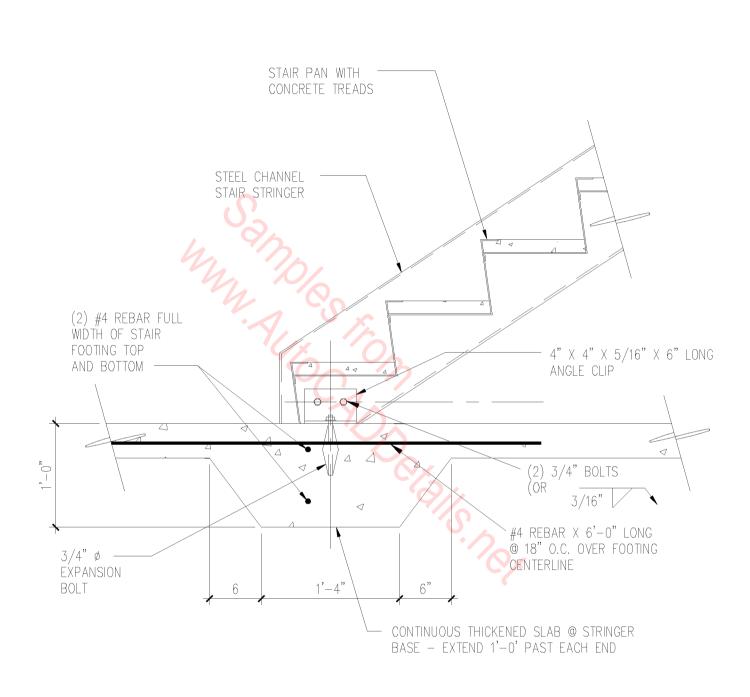
HANDRAIL RADIUS

3" = 1'-0"

05E - 5003



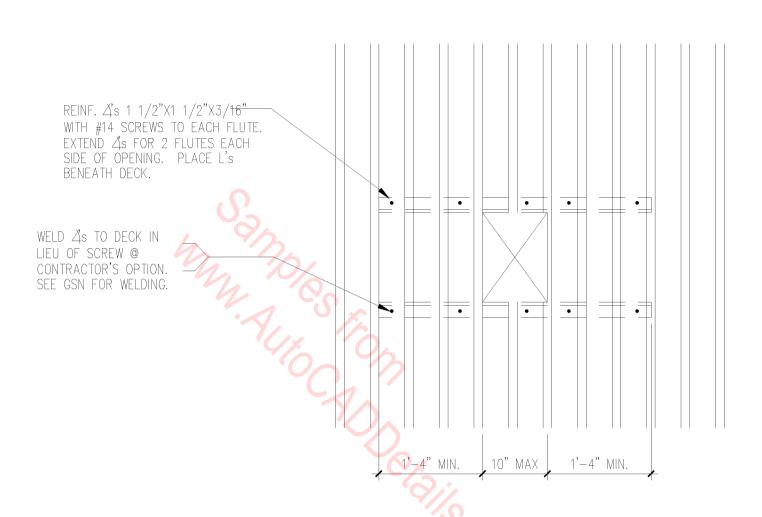
- 1. 1" STANDARD WEIGHT PIPE.
- 2. 1/2" STANDARD WEIGHT PIPE.
- 3. 3/4" STANDARD WEIGHT PIPE.
- 4. 1-1/4" STANDARD WEIGHT PIPE.
- 5. 1-1/2" STANDARD WEIGHT PIPE AT EACH END AND 4'-8" O.C. VERTICAL SUPPORT.
- 6. GRIND PIPE AS REQUIRED FOR SLIP JOINT FIT.
- 7. WELD AND GRIND SMOOTH AT JOINTS.
- 8. WELD.
- 9. 1 1/2" HANDRAIL.
- 10. TELESCOPING VERTICAL SUPPORT.



STRINGER AT SLAB

3/4" = 1'-0"

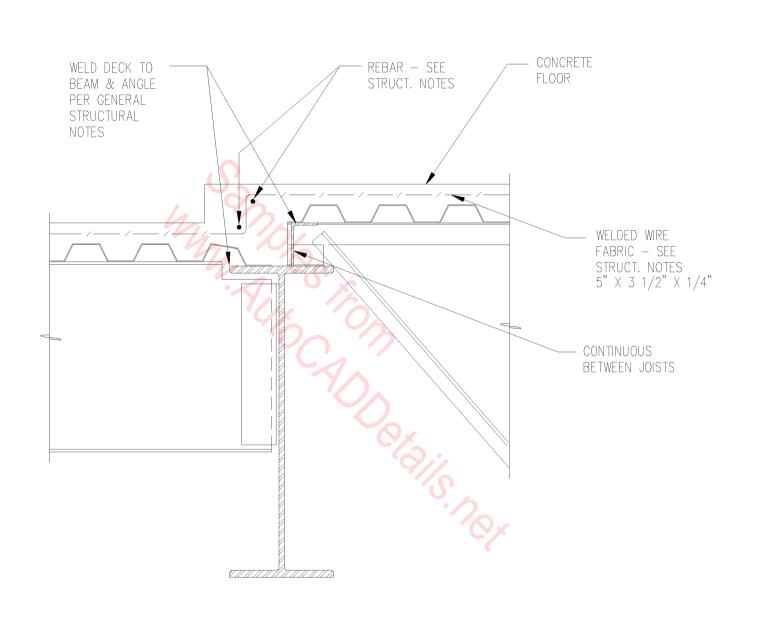
05E-2001



NOTES:

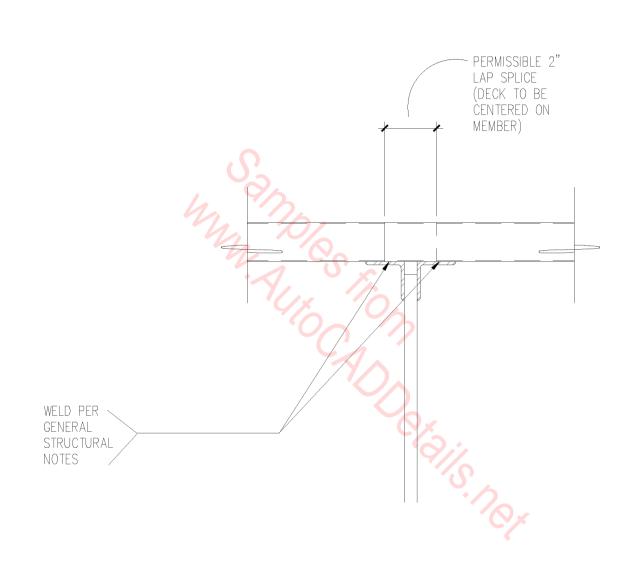
- 1. REINFORCE L'S NOT REQUIRED AT OPENINGS LESS THAN 5" OR WHEN 1 DECK FLUTE IS CUT.
- 2. USE UP TO 10" WIDE WHEN NO MORE THAN 2 DECK FLUTES HAVE BEEN CUT. DECK SHALL BE CONTINUOUS OVER MINIMUM ONE ADJACENT SPAN.

OPENING IN METAL DECK SCALE: 3/4" = 1'-0" 054-300

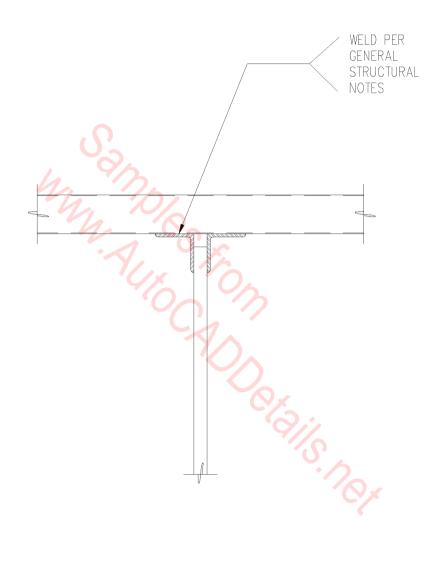


DROPPED FLOOR

SCALE: 3/4" = 1'-0"



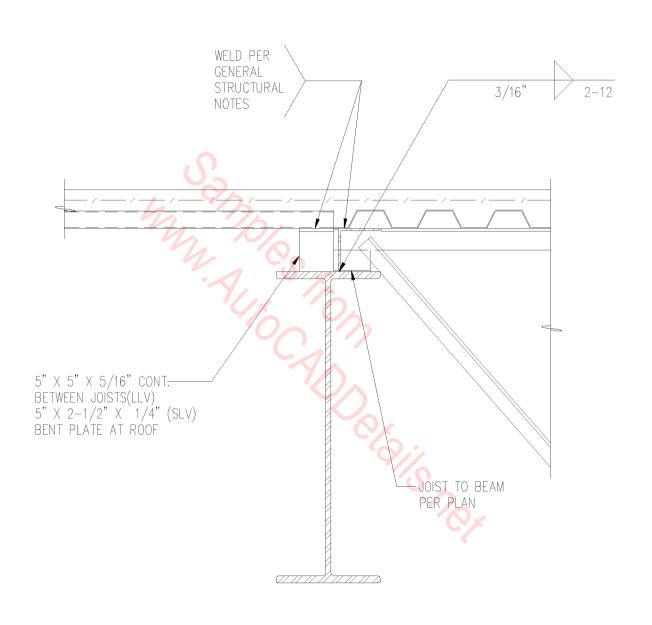
 $\frac{\text{DECK SPLICE}}{\text{SCALE: } 3/4" = 1'-0"}$



CONT. DECK OVER JOIST

SCALE: 3/4" = 1'-0"

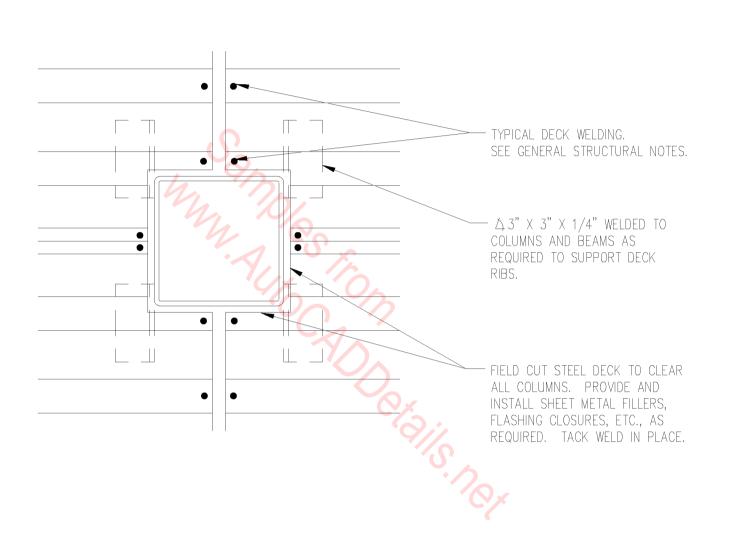
 $\overline{05A} - \overline{3004}$



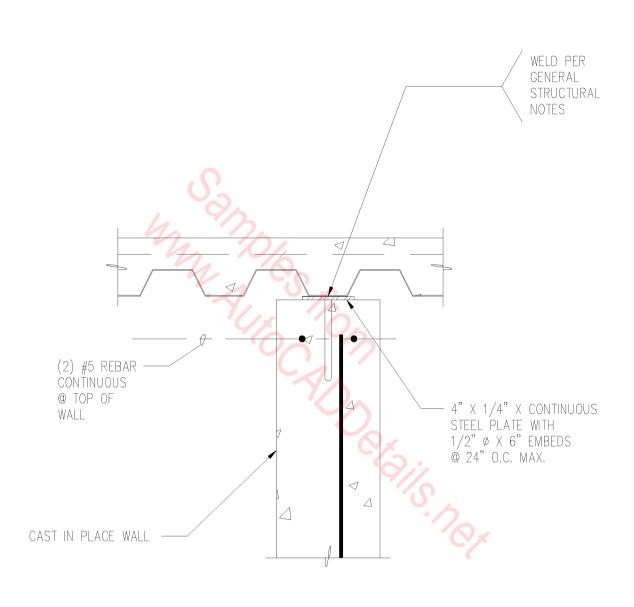
DECK DIRECTION CHANGE

SCALE: 3/4" = 1'-0"

05A - 3005

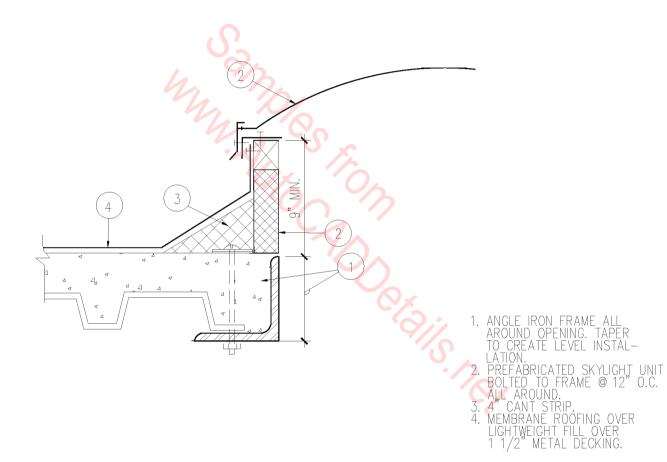


DECK AT T.S. CO SCALE: 3/4" = 1'-0"



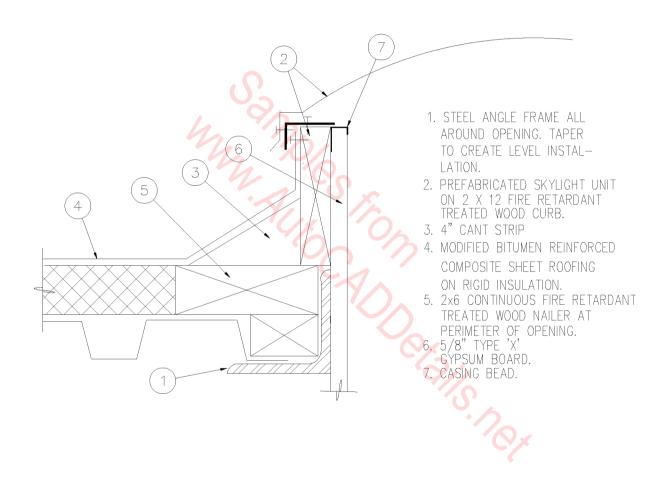
ODECK TO TOP OF WALL

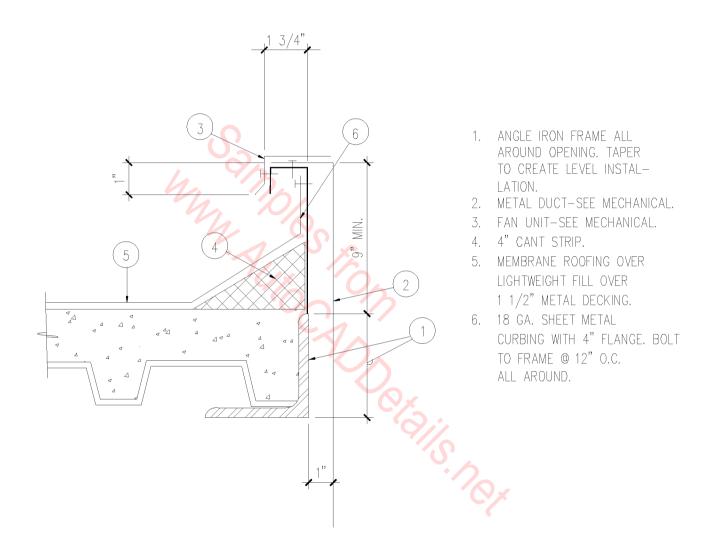
SCALE: 3/4" = 1'-0"



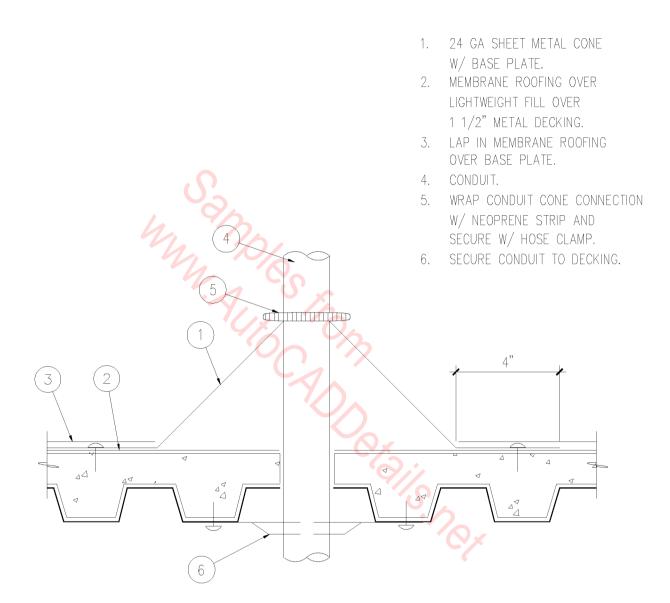
SKYLIGHT CURB

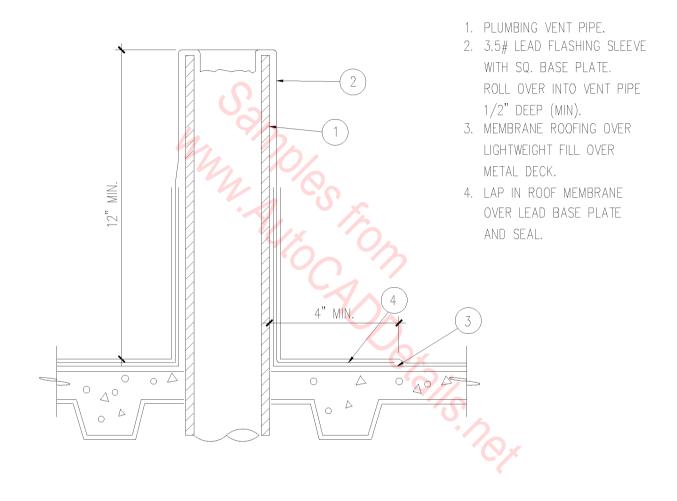
SCALE: 1/2" = 1'-0"





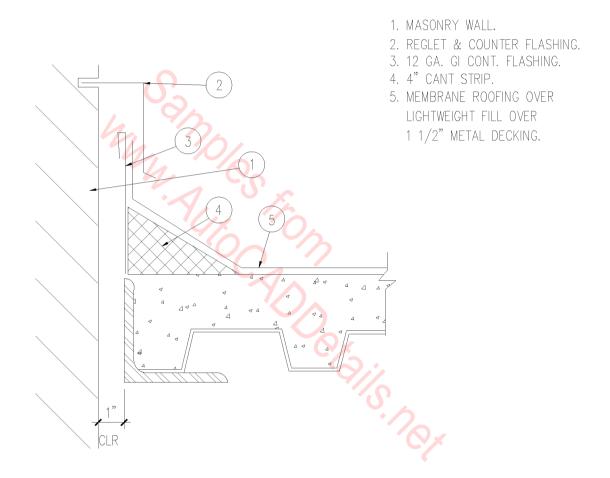
SCALE: 3" = 1'-0"





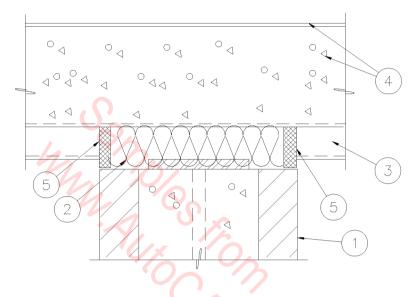
VENT THRU ROOF

SCALE: 3'' = 1'-0''



ROOFING EXPANSION JOINT

SCALE: 3'' = 1'-0''



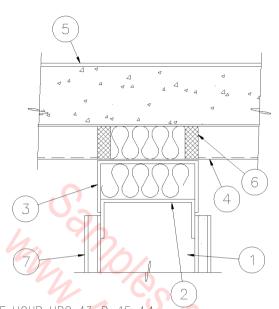
UL THROUGH-PENETRATION FIRESTOP SYSTEMS DESIGN NO. 327

- 1. RATED C.M.U. WALL.
- 2. FIRE SAFING INSULATION.
- 3. METAL DECK.
- 4. CLASS A ROOFING SYSTEM OVER LIGHT WEIGHT CONCRETE FILL.
- 5. 1/2" 'TREMCO' FYRE-SIL SEALANT.

RESISTIVE WALL AT ROOF

SCALE: 3" = 1'-0"

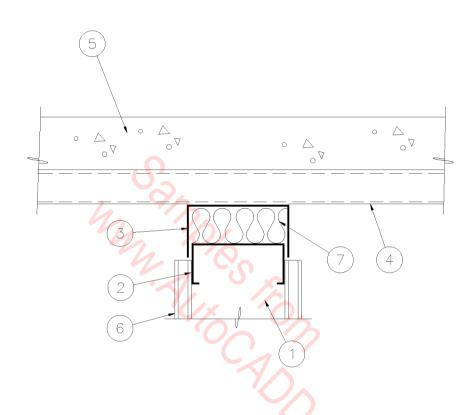
 $\frac{1}{05A} - \frac{1}{3014}$



ONE HOUR UBC 43-B, 15-1.1 UL THROUGH-PENETRATION FIRESTOP SYSTEM DESIGN NO. 327

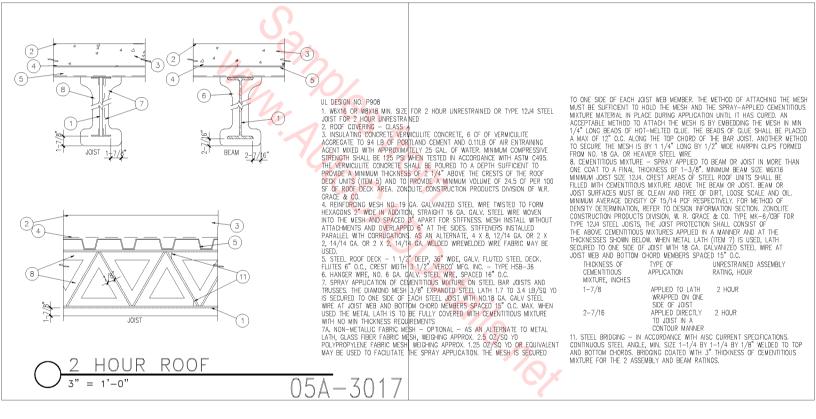
- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
 5. CLASS "A" ROOFING SYSTEM ON
- LIGHT WEIGHT CONCRETE.

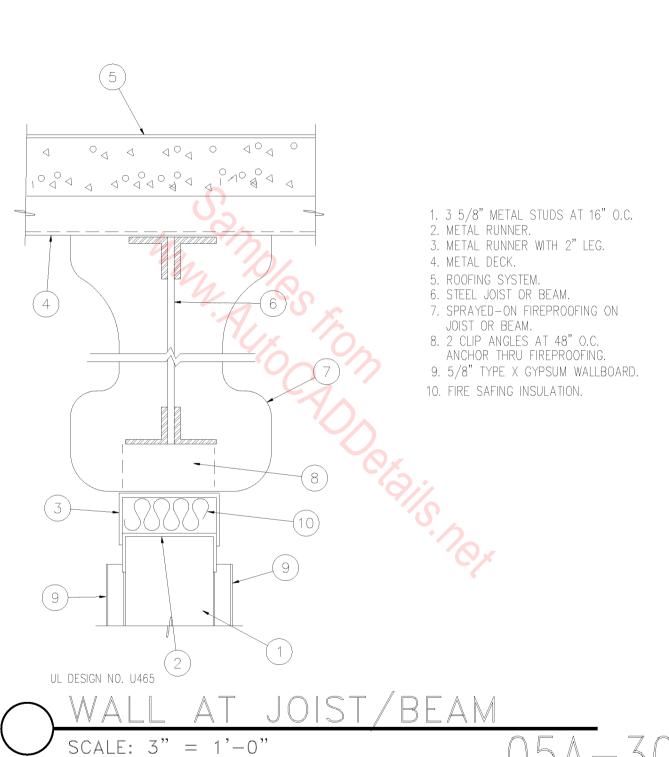
 6. 1/2" 'TREMCO' FYRE—SIL SEALANT ON EACH SIDE OF FIRE SAFING MATERIAL.
 7. 5/8" TYPE "X" GYPSUM BOARD.
 8. FIRE SAFING INSULATION.



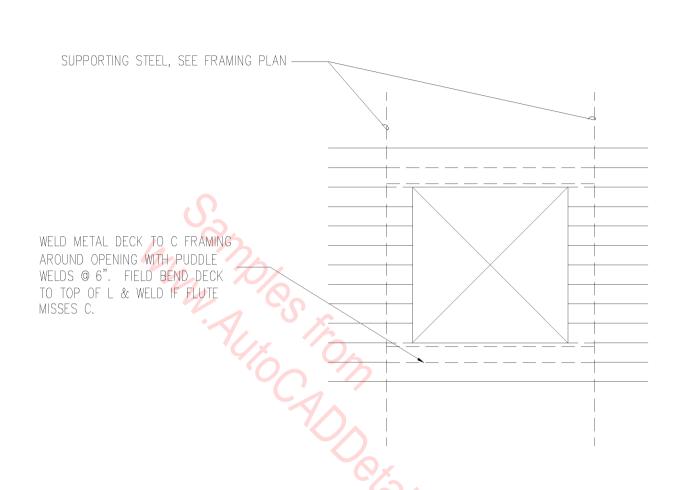
- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. LIGHT WEIGHT CONCRETE.
- 6. 5/8" TYPE "X" GYPSUM BOARD.
 7. FIRE SAFING MATERIAL.

05A - 3016





05A-3018



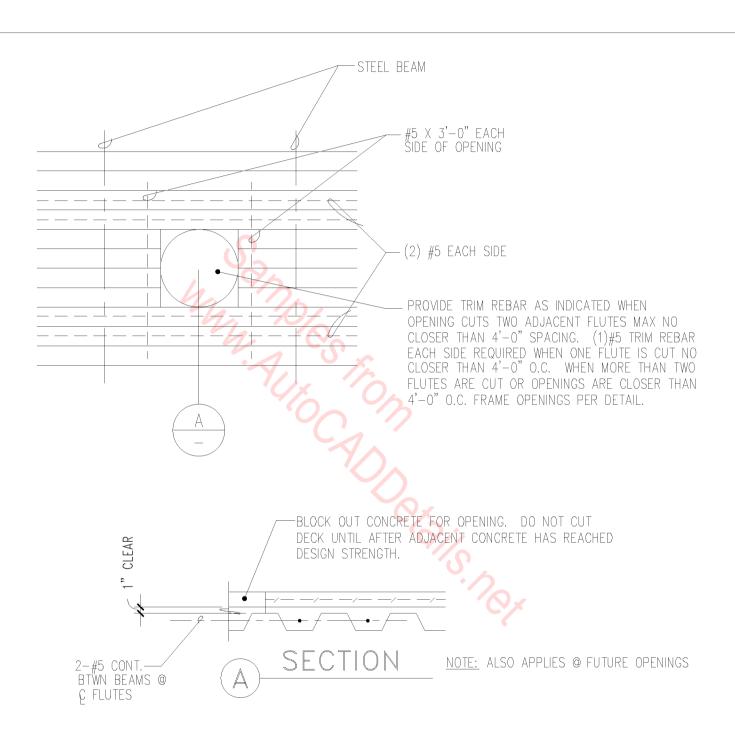
NOTES:

- 1. USE THIS DETAIL FOR OPENINGS WHERE MORE THAN ONE DECK FLUTE IS CUT AT THE ROOF AND TWO AT THE FLOOR.
- 2. WHEN CLEAR DISTANCE BETWEEN EDGE OF BEAM (BEAM NORMAL TO DECK) & EDGE OF OPENING IS LESS THAN 5", PARALLEL CHANNEL MAY BE OMITTED.
- 3. ALL OPENINGS & THEIR FRAMING PER ABOVE ARE NOT NECESSARILY SHOWN ON FRAMING PLANS. SEE MECHANICAL OR ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

OPENING IN METAL DECK

SCALE: 3/4" = 1'-0"

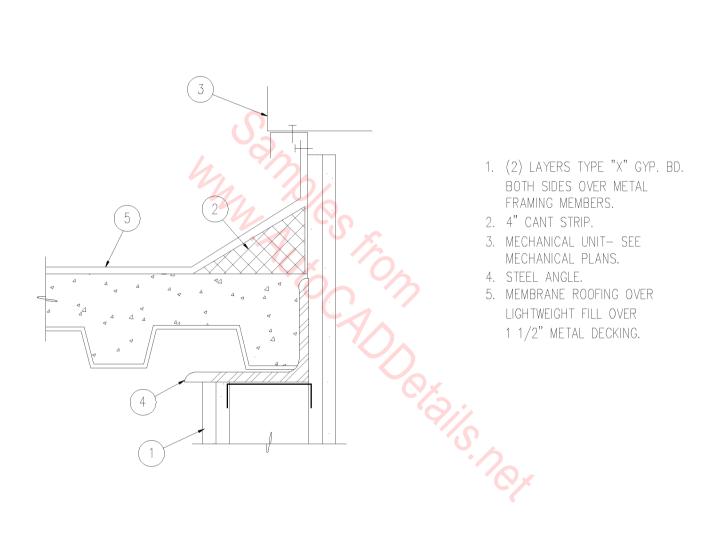
05A - 3019

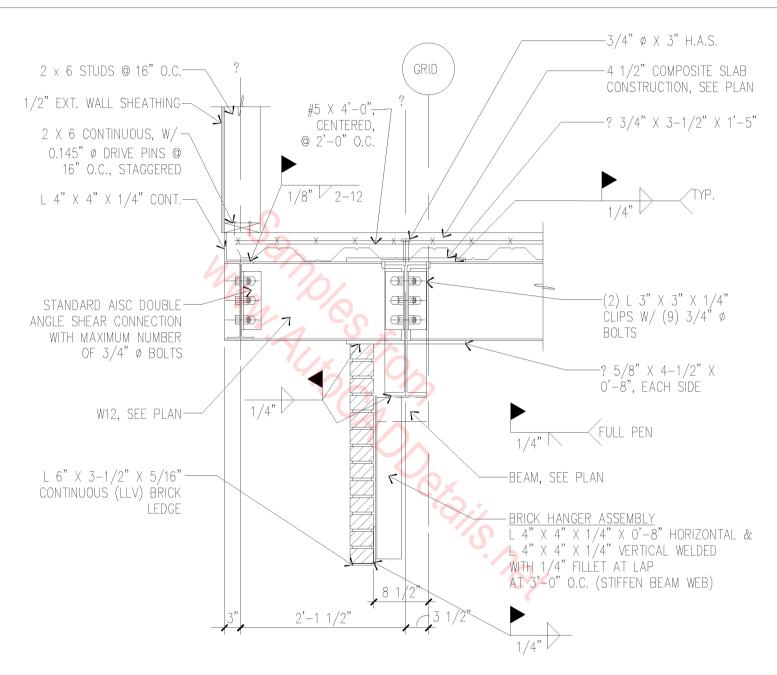


TOPENING IN METAL DECK

SCALE: $3/4" = \overline{1'-0"}$

 $\overline{05A} - 3020$



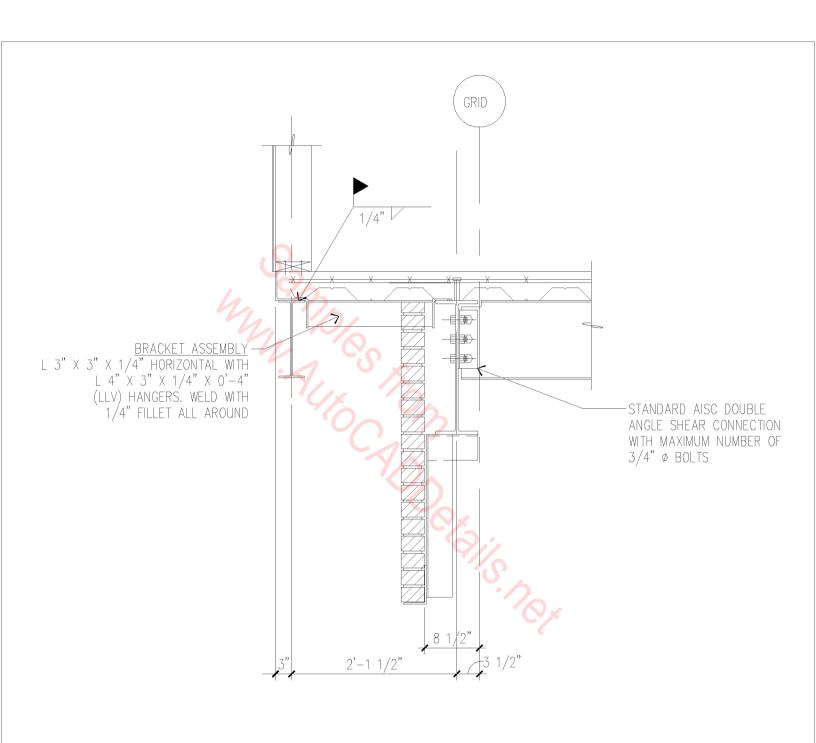


NOTE: AT LOCATIONS WHERE BEAM IS DROPPED, CUT OUT WEB OF W12 TO MAKE MOMENT CONNECTION.

FRAMING SECTION

3/4" = 1'-0"

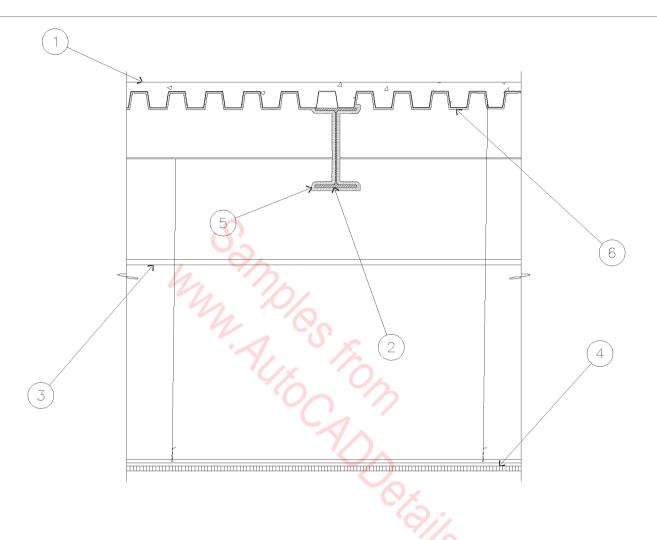
05A - 3022



FRAMING SECTION

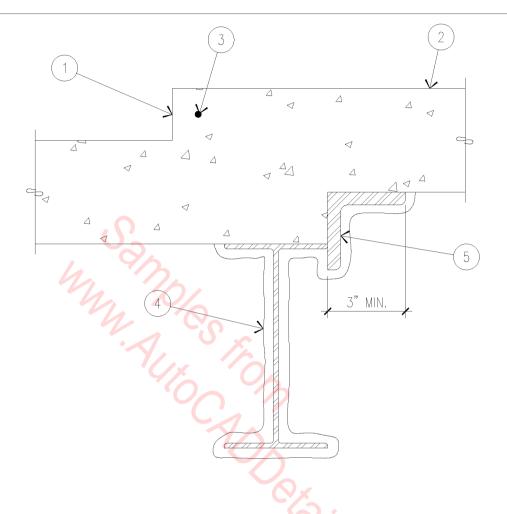
3/4" = 1'-0"

05A - 3023

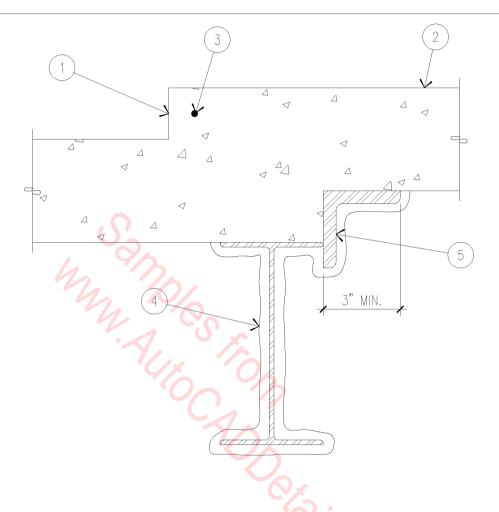


- 1. CONCRETE FLOOR OVER FLUTED STEEL DECK STEEL DECK SHALL BE WELDED TO STEEL BEAMS.
- 2. WIDE FLANGE BEAM.
- 3. BEAM BEYOND.
- 4. SUSPENDED "TEE" GRID CEILING.
- 5. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/2" THICK (MINIMUM) AT STEEL BEAMS.
 6. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/4" THICK (MINIMUM) AT STEEL DECK.

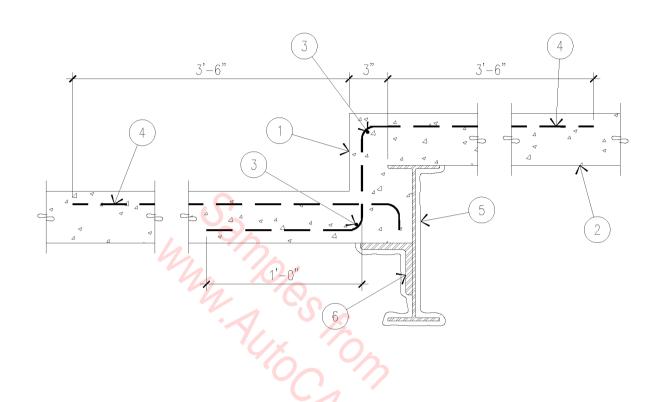
U.L. DESIGN NO. N805



- 1. DEPRESSION SEE PLAN,
- 2. SLAB ON METAL DECK FOR THICKNESS, SEE PLAN.
- 3. (1) #4 REBAR, CONTINUOUS.
- 4. SPRÄYED ON FIREPROOFING.
- 5. ANGLE WELDED TO BEAM SIZE TO FIT DEPRESSION (1/2" THICK, MINIMUM).



- 1. DEPRESSION SEE PLAN.
- 2. SLAB ON METAL DECK FOR THICKNESS, SEE PLAN.
- 3. (1) #4 REBAR, CONTINUOUS.
- 4. SPRAYED ON FIREPROOFING.
- 5. ANGLE WELDED TO BEAM SIZE TO FIT DEPRESSION (1/2" THICK, MINIMUM).



- DEPRESSION SEE PLAN. 1.
- SLAB ON METAL DECK FOR 2.

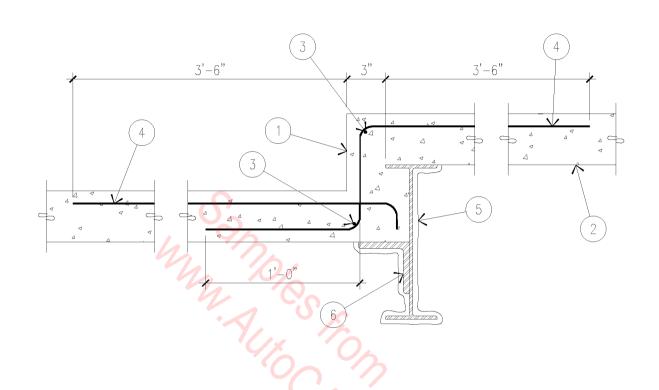
- THICKNESS, SEE PLAN.

 (1) #4 REBAR, CONTINUOUS.

 #4 REBAR AT 12" O.C., MINIMUM.

 SPRAYED ON FIREPROOFING.

 L 4" X 4" X 1/2", CONTINUOUS, WELDED TO BEAM.



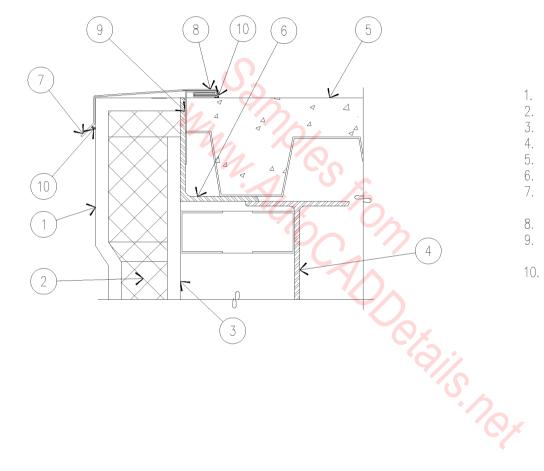
- DEPRESSION SEE PLAN. 1.
- SLAB ON METAL DECK FOR 2.
- 3.
- 5.
- THICKNESS, SEE PLAN.

 (1) #4 REBAR, CONTINUOUS.

 #4 REBAR AT 12" O.C., MINIMUM.

 SPRAYED ON FIREPROOFING.

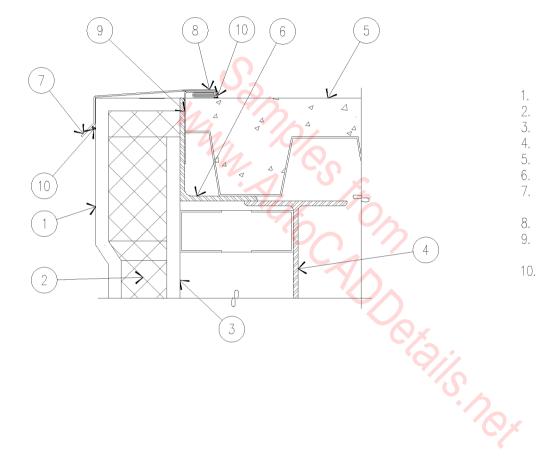
 L 4" X 4" X 1/2", CONTINUOUS, WELDED TO BEAM.



- 1. E.I.F.S.
- 2. RIGID INSULATION.
- 3. 1/2" GYPSUM SHEATHING.
- 4. WIDE FLANGE BEAM.
- 5. COMPOSITE ROOF DECK.
- 6. RETAINING ANGLE.
- 7. CONTINUOUS FLASHING WITH DRIP EDGE.
- 8. CONTINUOUS HEMMED SEAM.
- 9. CONTINUOUS SHEET METAL RETAINING FLANGE.
- 10. CONTINUOUS SEALANT.

ROOF PARAPET

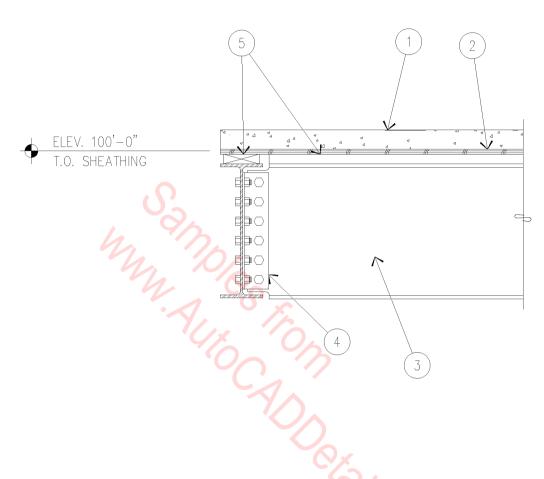
3" = 1'-0"



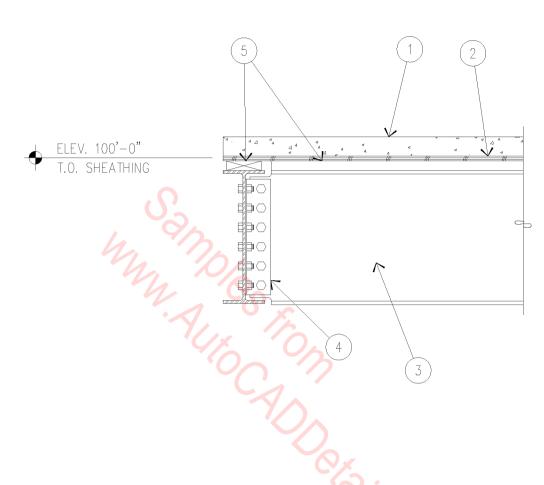
- 1. E.I.F.S.
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- 9. CONTINUOUS SHEET METAL RETAINING FLANGE.
- 10. CONTINUOUS SEALANT.

ROOF PARAPET

3" = 1'-0"

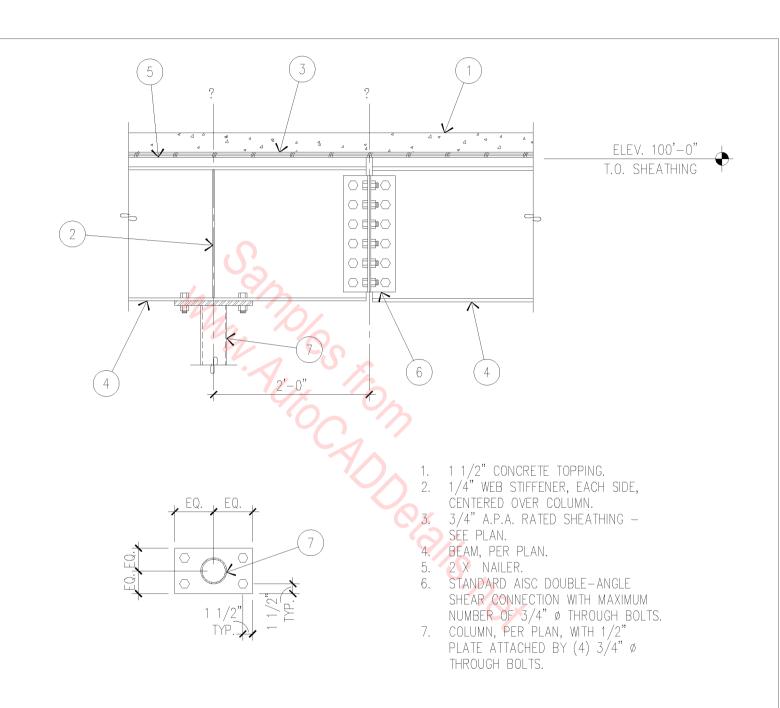


- 1 1/2" CONCRETE TOPPING.
 3/4" A.P.A. RATED SHEATHING SÉE PLAN.
- 3. BEAM, PER PLAN.
- STANDARD AISC DOUBLE-ANGLE SHEAR CONNECTION WITH MAXIMUM NUMBER OF 3/4" Ø THROUGH BOLTS.
- 5. 2 X NAILER.

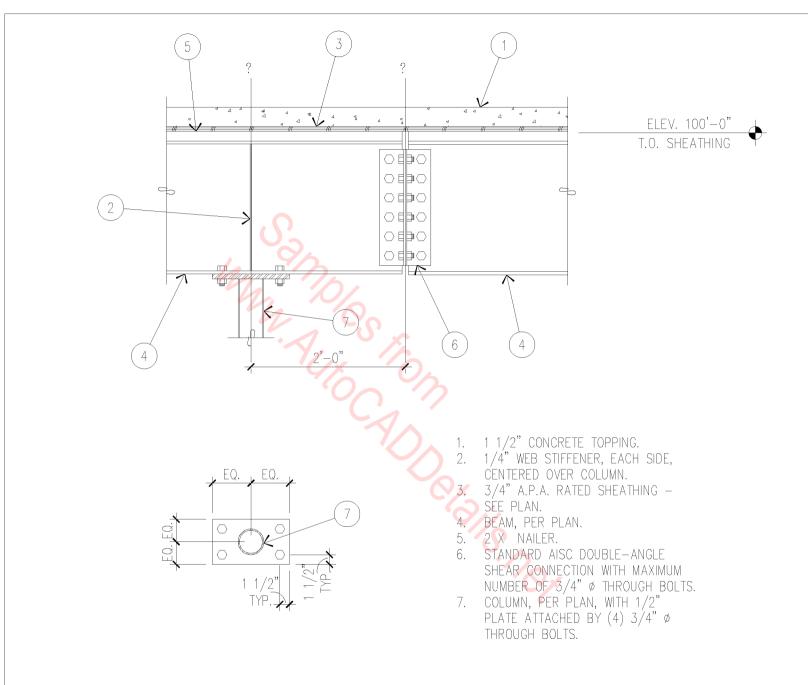


- 1. 1 1/2" CONCRETE TOPPING. 2. 3/4" A.P.A. RATED SHEATHING SEE PLAN.
- BEAM, PER PLAN.
- STANDARD AISC DOUBLE-ANGLE SHEAR CONNECTION WITH MAXIMUM NUMBER OF 3/4" Ø THROUGH BOLTS.
- 5. 2 X NAILER.

3/4" = 1'-0"

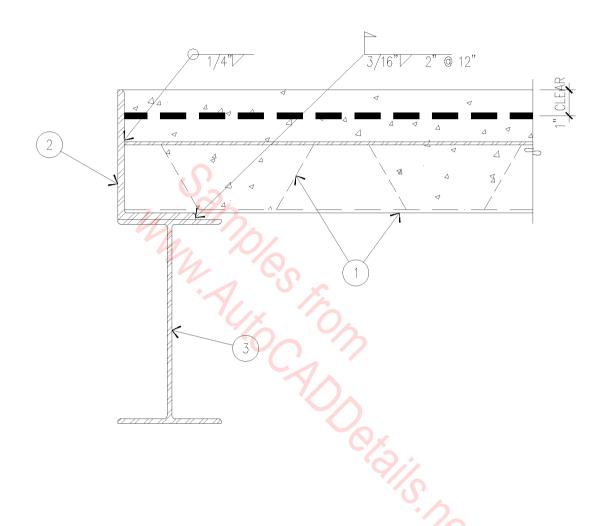




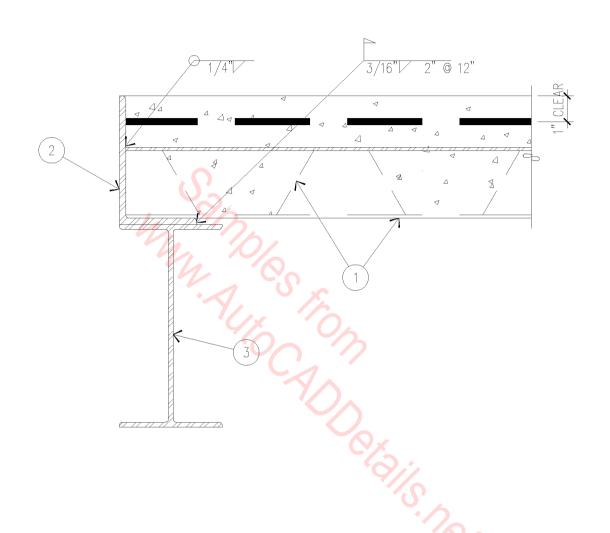


BEAM TO BEAM AT COLUMN

3/4" = 1'-0"

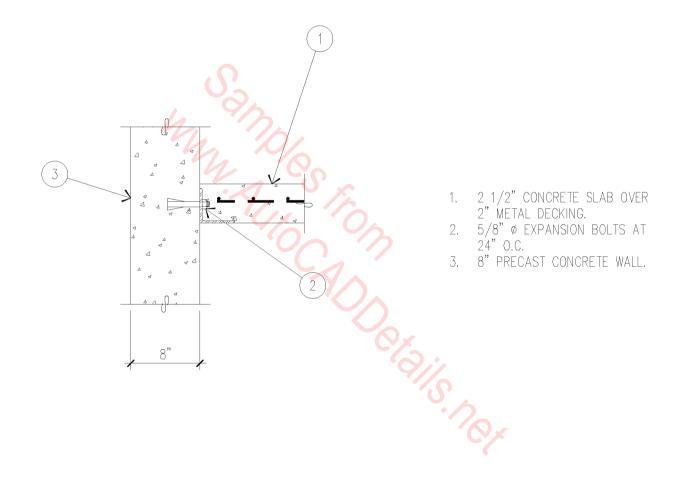


- TYPICAL EDGE BENT PLATE OR
 L 3" X 5" X 1/4" (LLV), CONTINUOUS,
 WITH #4 X 1'-6" AT 24" O.C.
 BEAM PER STRUCTURAL.



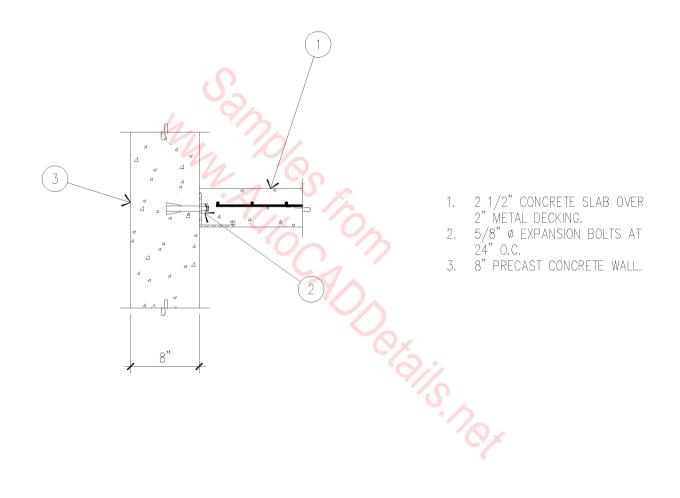
- TYPICAL EDGE BENT PLATE OR
 L 3" X 5" X 1/4" (LLV), CONTINUOUS,
 WITH #4 X 1'-6" AT 24" O.C.
 BEAM PER STRUCTURAL.

= 1'-0"



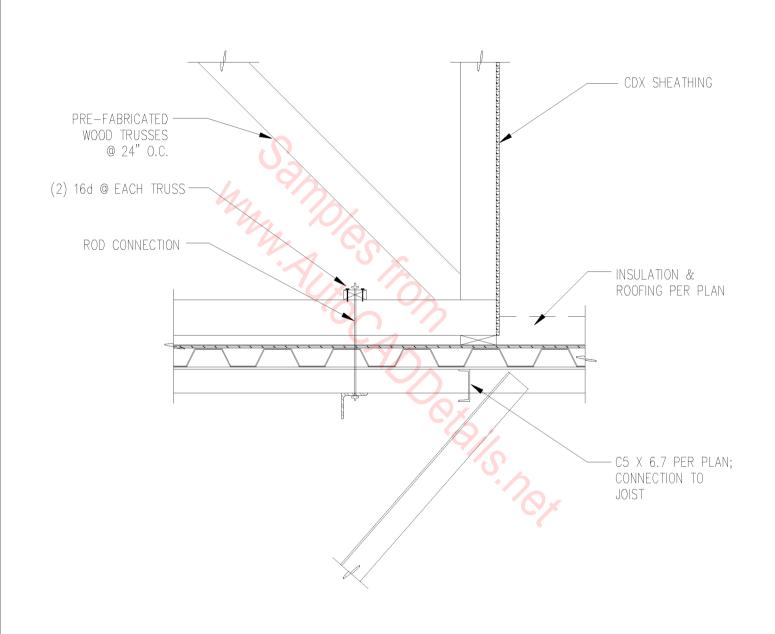
1" = 1'-0"

 $\overline{05A} - 3031$

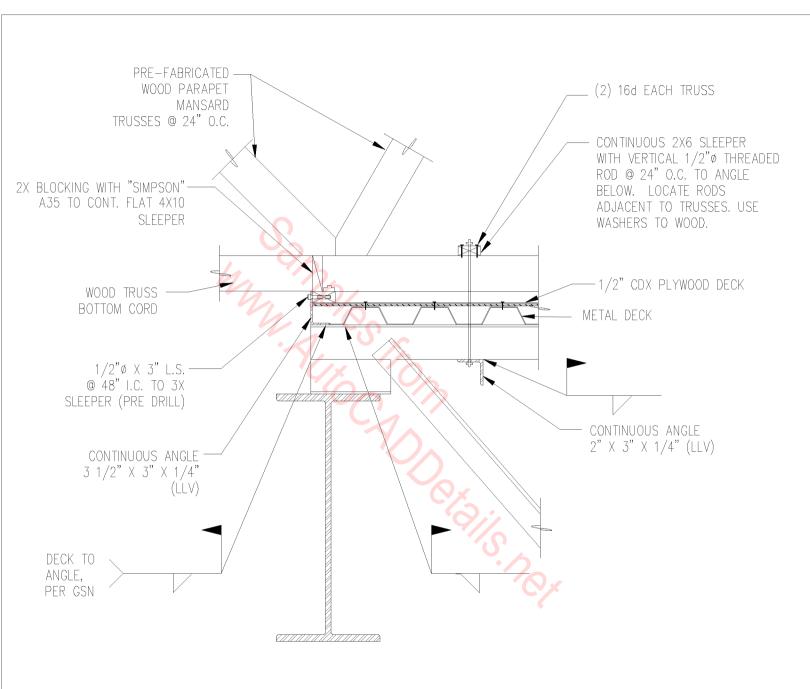


1" = 1'-0"

 $\frac{1}{05A} - 3031$

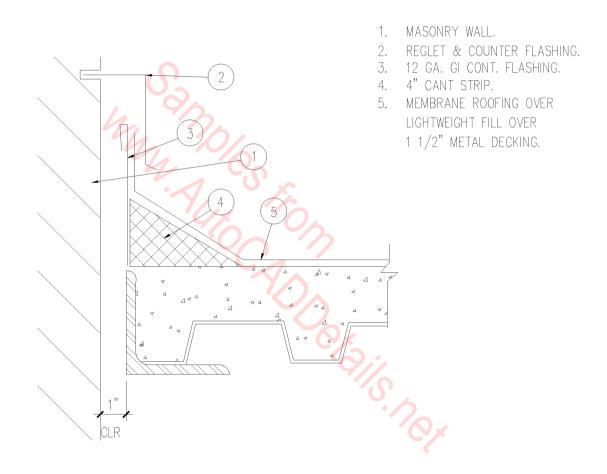


 $\frac{\text{MANSARD TRUSS TO ROOF}}{3/4" = 1'-0"} - \frac{05}{4} - \frac{1}{4}$



REINFORCED FRAMING @ PARAPET

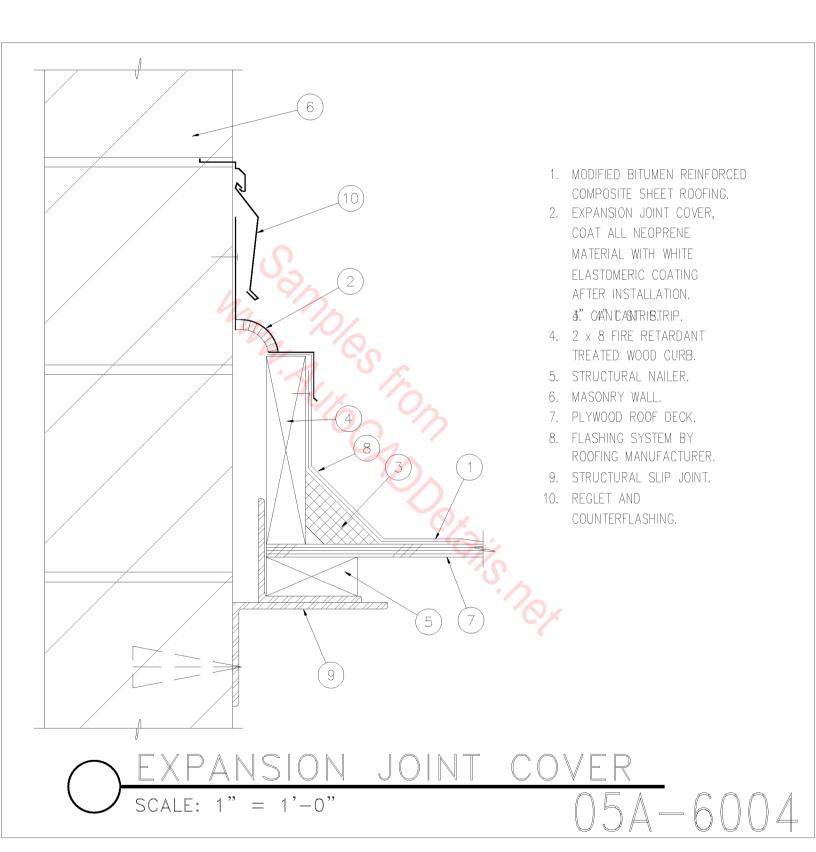
SCALE: $3/4" = \overline{1'-0"}$

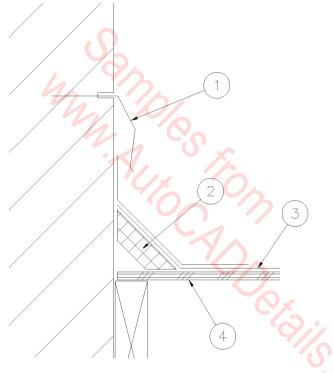


ROOFING EXPANSION JOINT

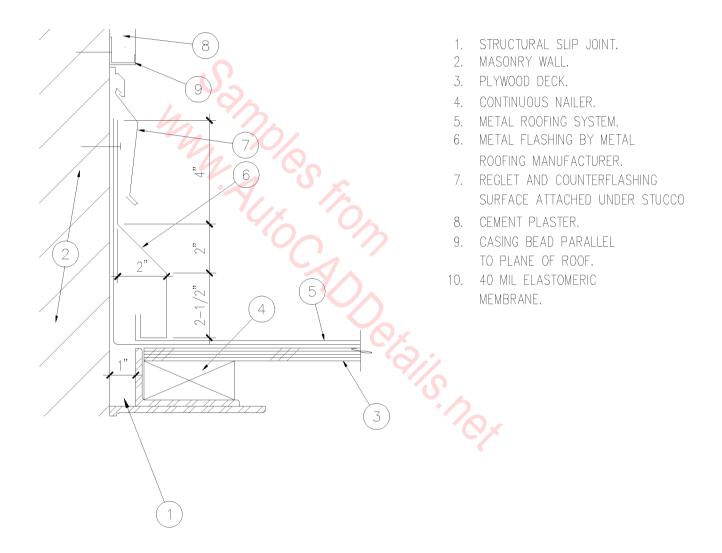
SCALE: 3" = 1'-0"

05A-6003

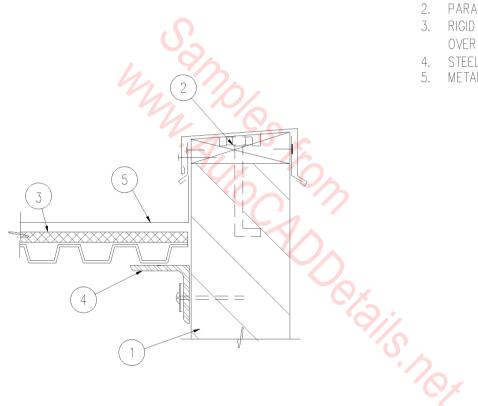




- 1. "FRY" TYPE REGLET
- FIBER CANT STRIP.
 CLASS "A" BUILT
- UP ROOFING.
- 4. PLYWOOD SHEATHING.



SCALE: 3'' = 1'-0''



1. MASONRY WALL.

2. PARAPET CAP.

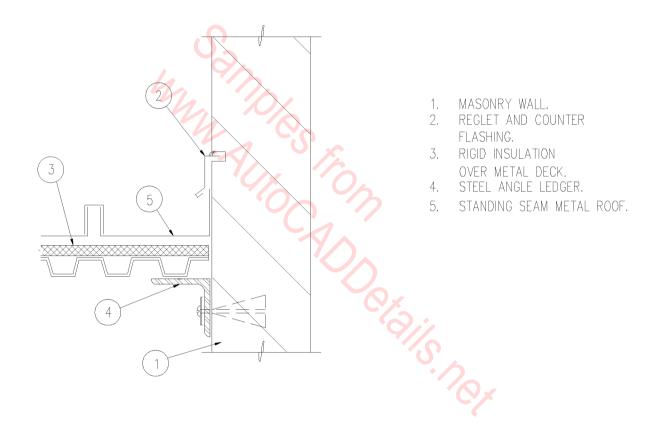
 RIGID INSULATION OVER METAL DECK.

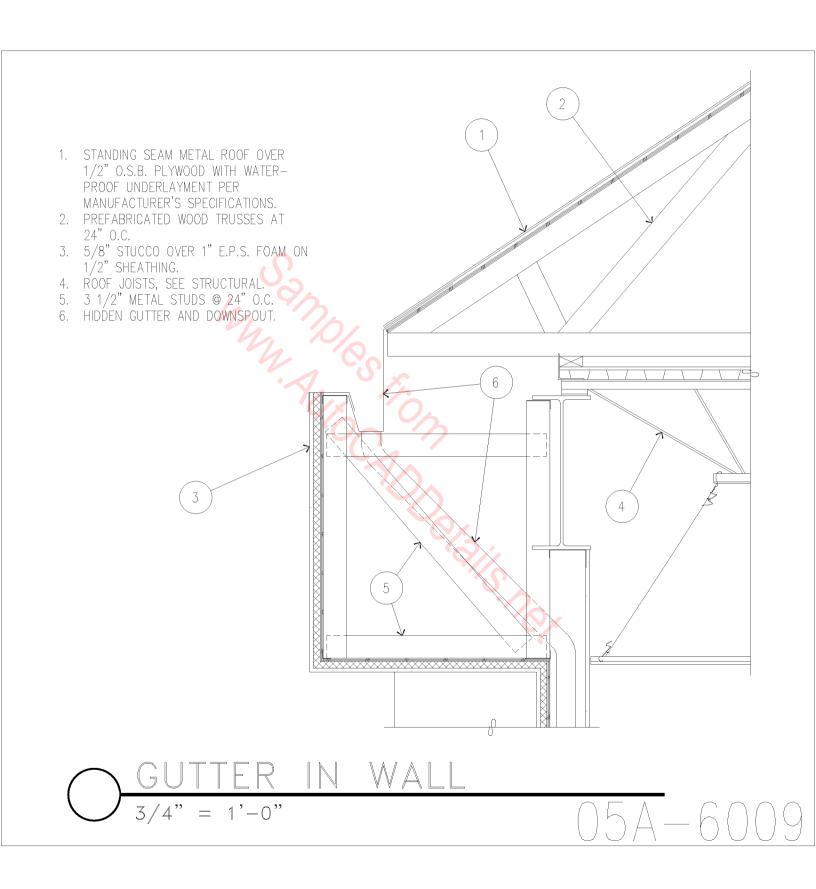
4. STEEL ANGLE LEDGER.

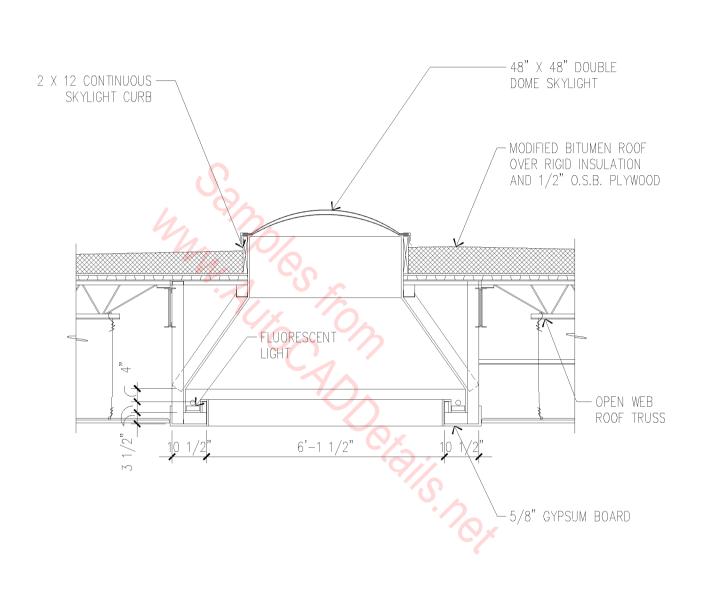
5. METAL ROOFING.

METAL ROOF AT PARAPET

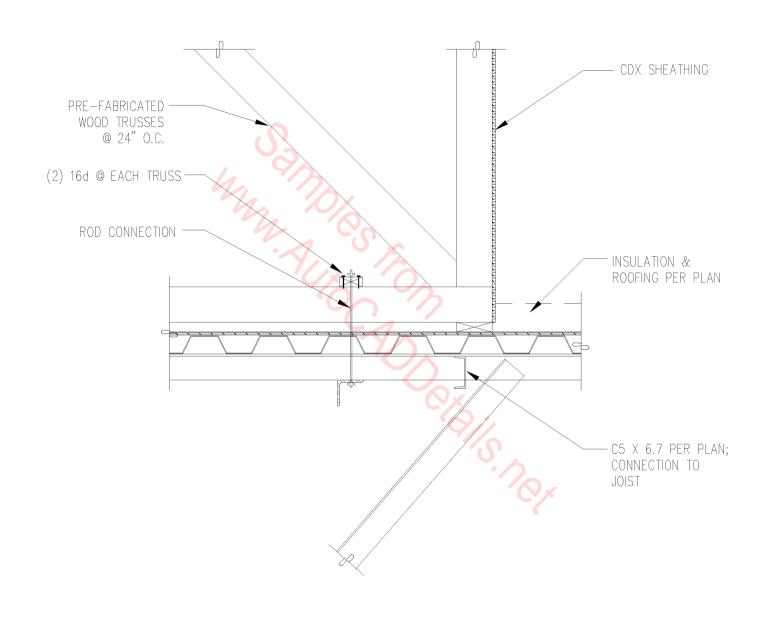
SCALE: 1 1/2" = 1'-0"



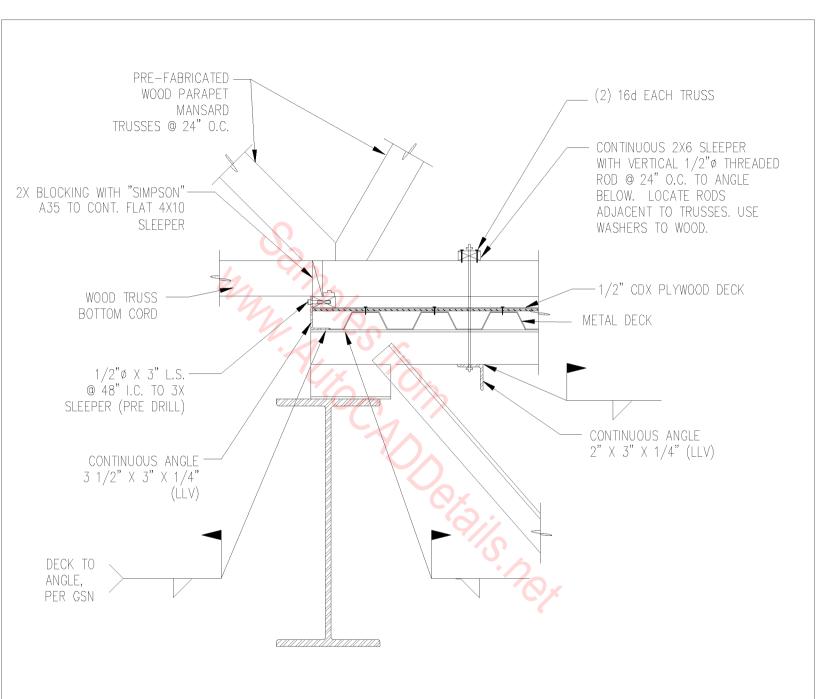




 $O\frac{\text{SKYLIGHT} - \text{LIGHT WELL}}{3/8" = 1'-0"}$

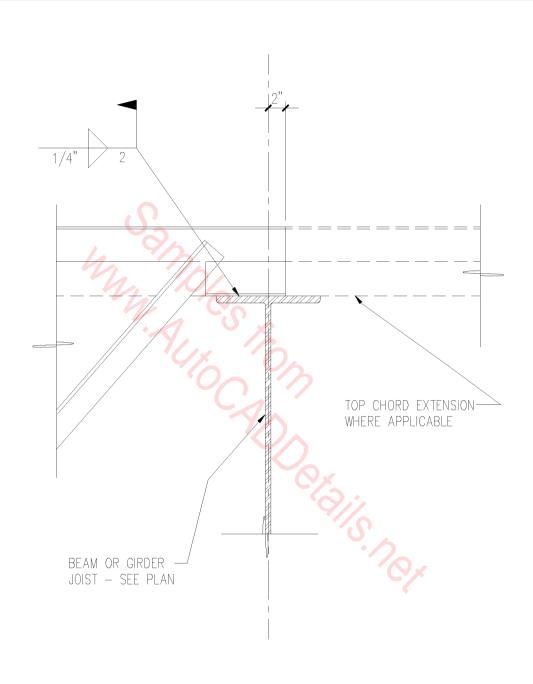


 $O\frac{\text{MANSARD TRUSS TO ROOF}}{3/4" = 1'-0"} O5A - 2001$



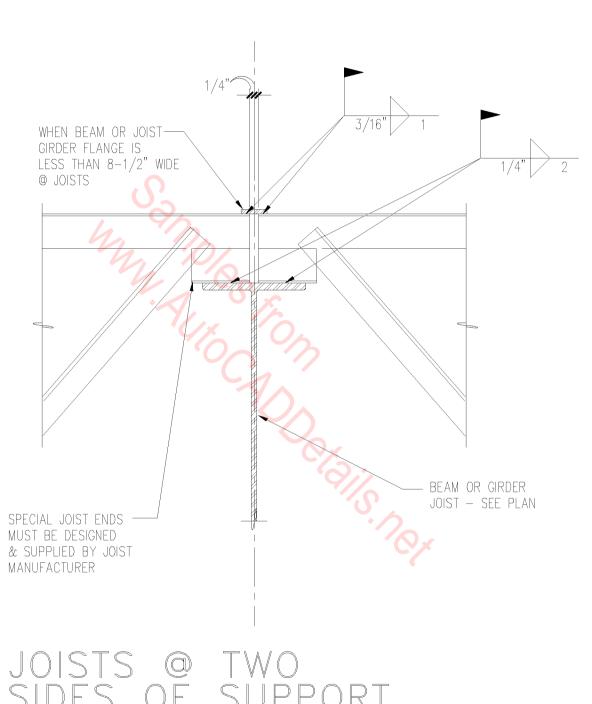
REINFORCED FRAMING @ PARAPET

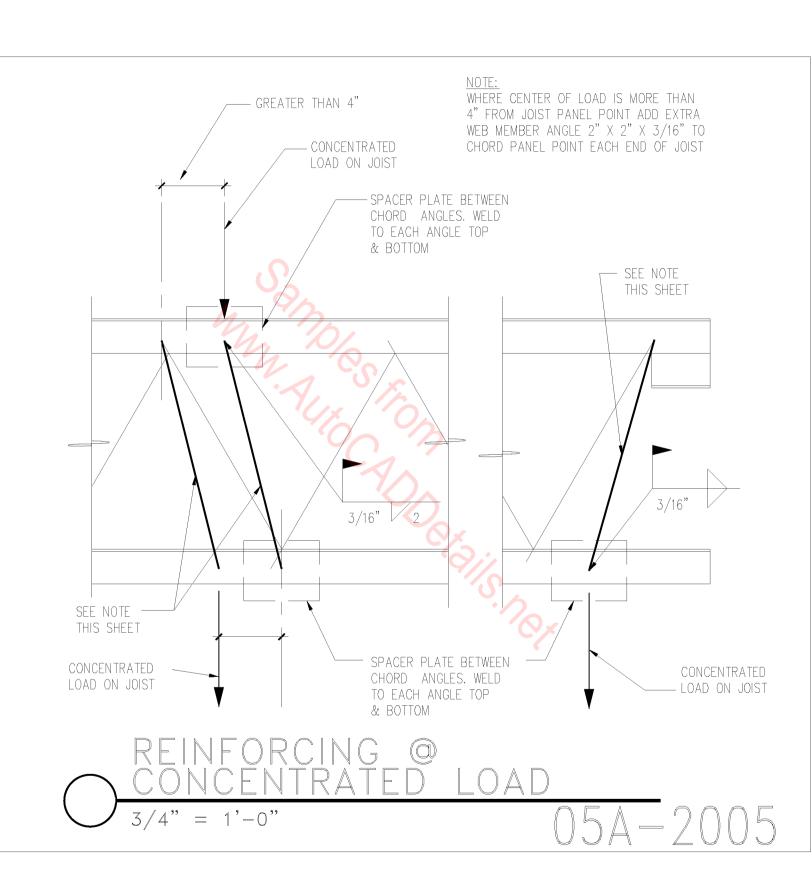
SCALE: $3/4" = \overline{1'-0"}$

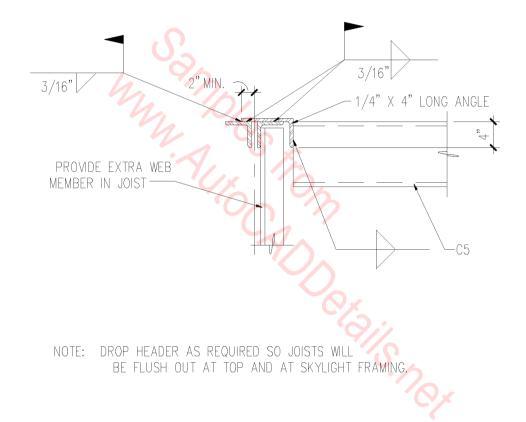


END BEARING JOIST

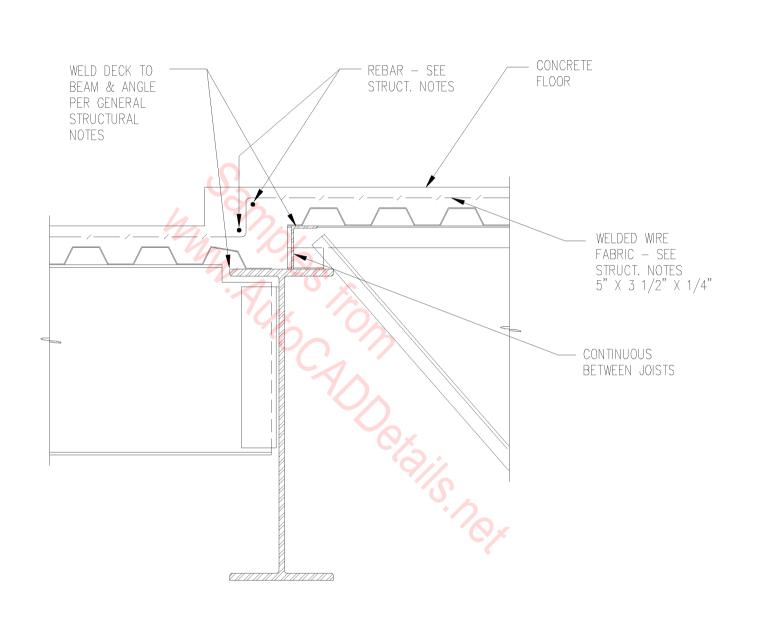
SCALE: 3/4" = 1'-0"





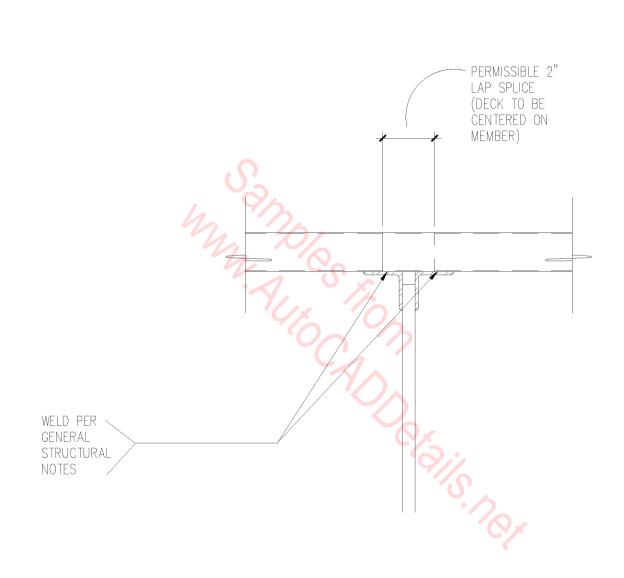


FRAMING AT SCALE: 3/4" = 1'-0"

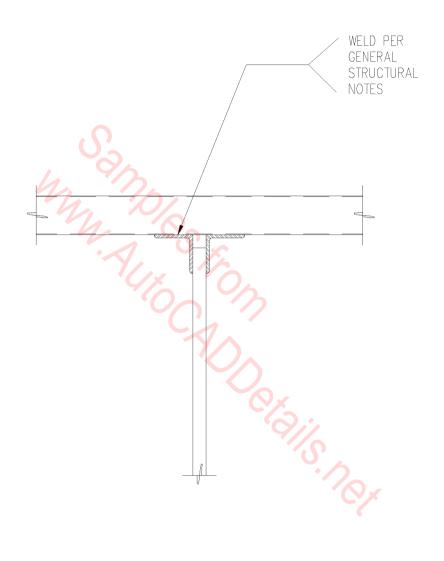


DROPPED FLOOR

SCALE: 3/4" = 1'-0"

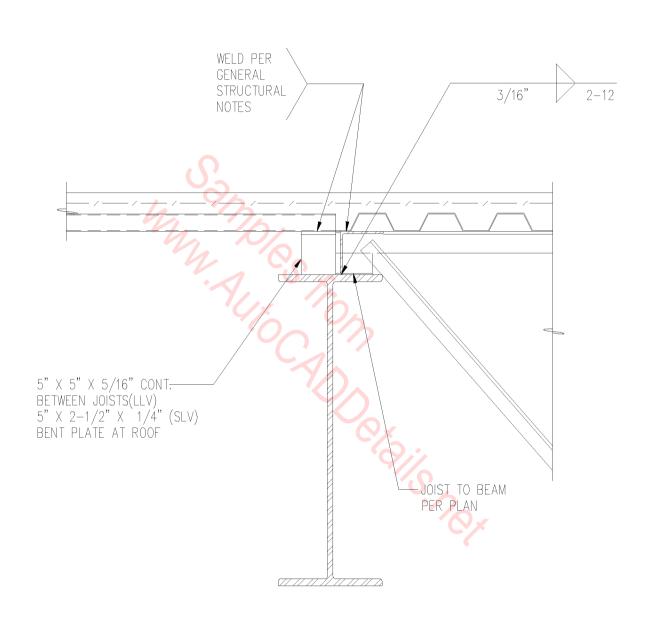


DECK SPLICE SCALE: 3/4" = 1'-0"



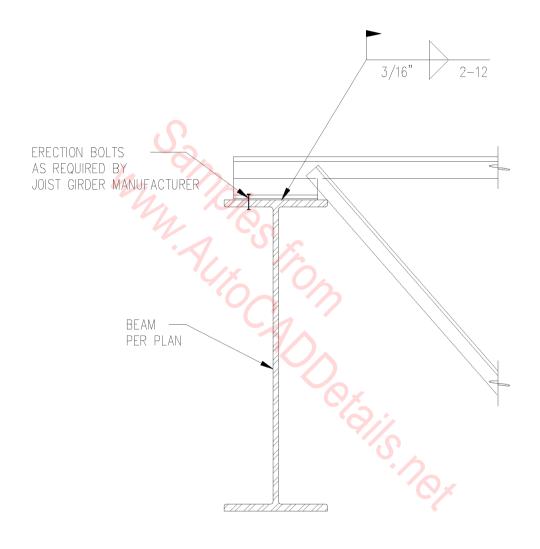
CONT. DECK OVER JOIST

SCALE: 3/4" = 1'-0"



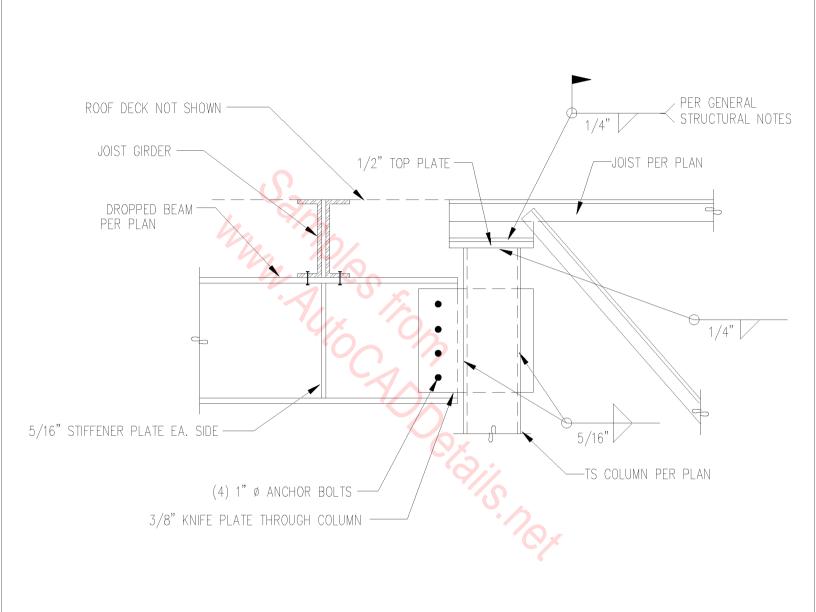
DECK DIRECTION CHANGE

SCALE: 3/4" = 1'-0"

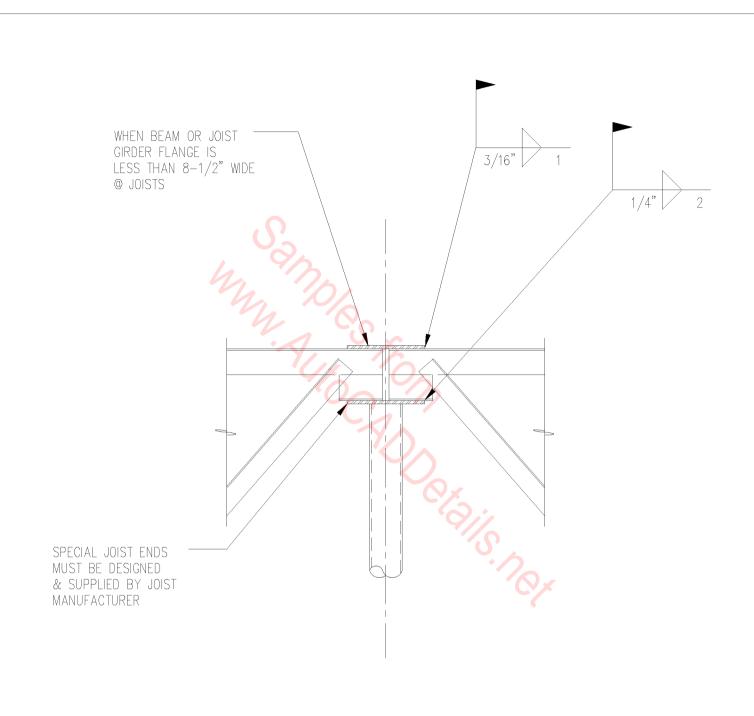


 $\frac{\text{JOISI GIRDE}}{\text{SCALE: 3/4"} = 1'-0"}$

5 5 A - 2011

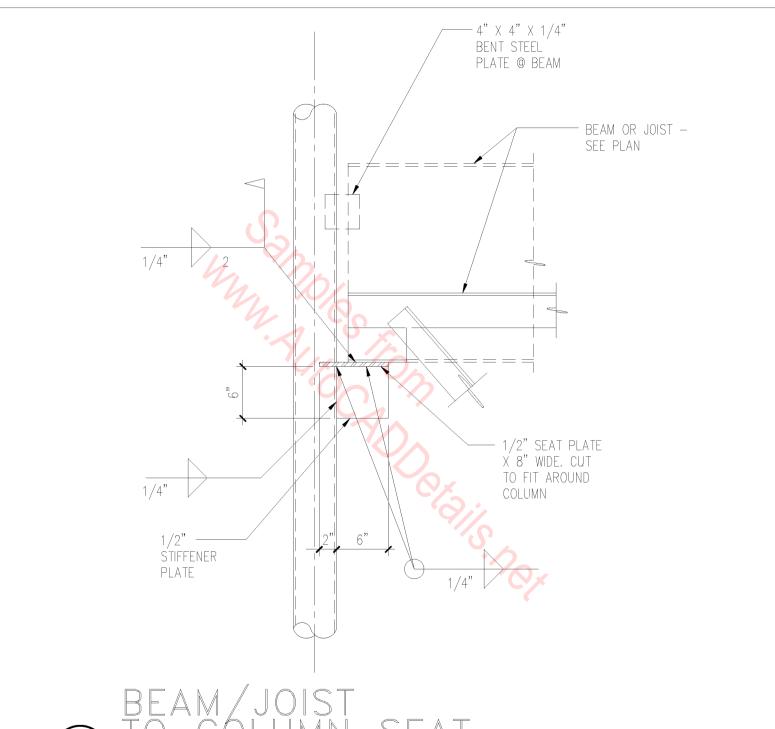




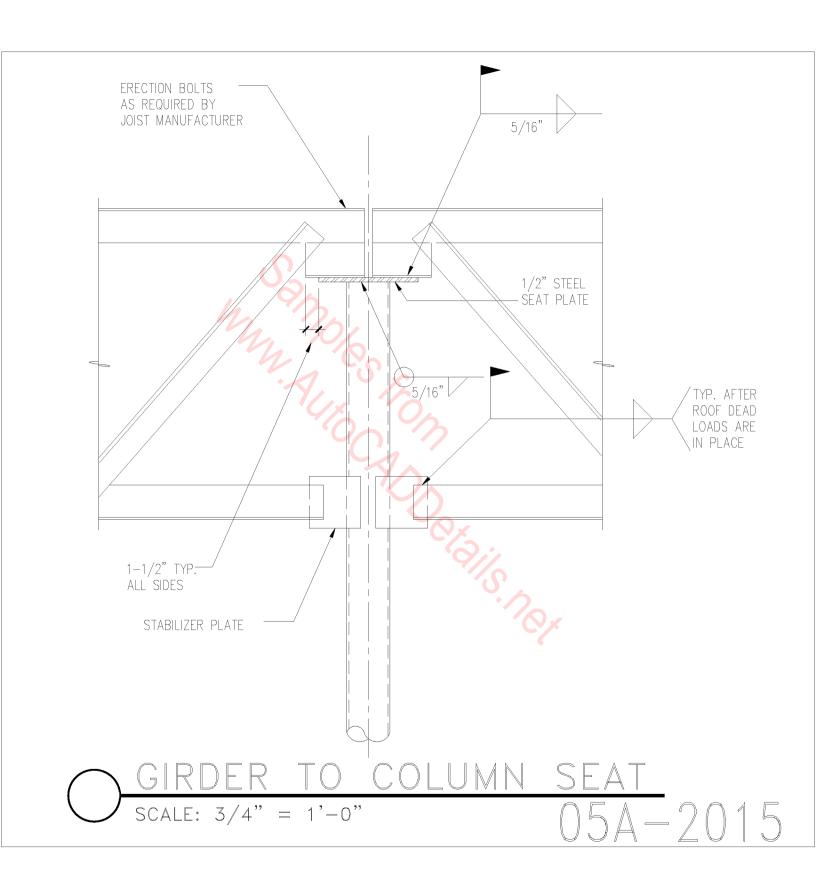


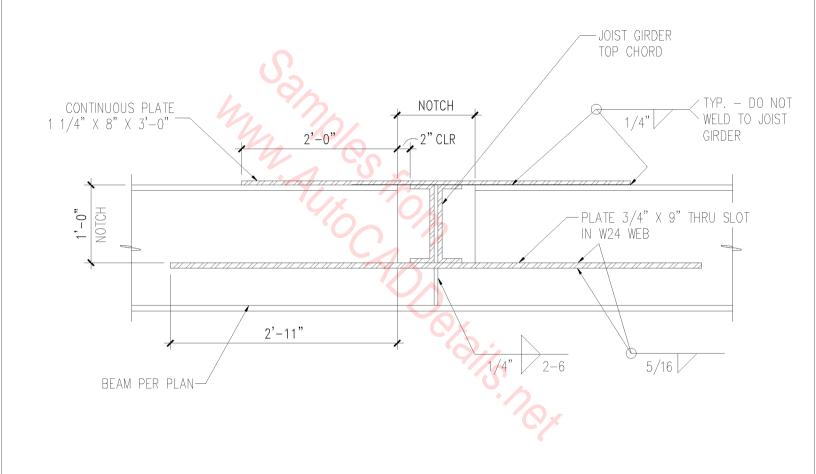
GIRDER TO COLUMN

SCALE: 3/4" = 1'-0"

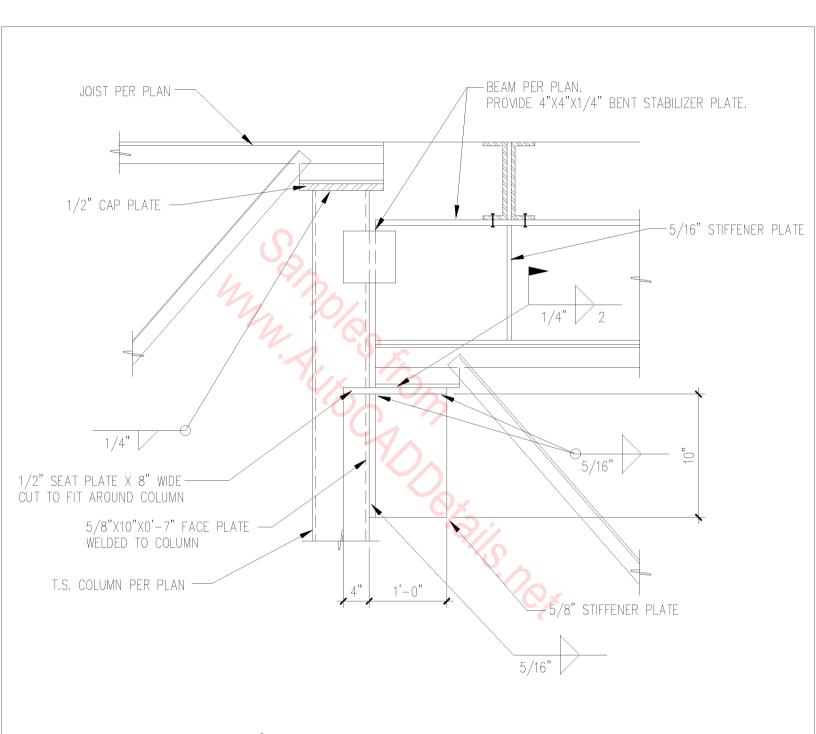


SCALE: $3/4" = \overline{1'-0"}$

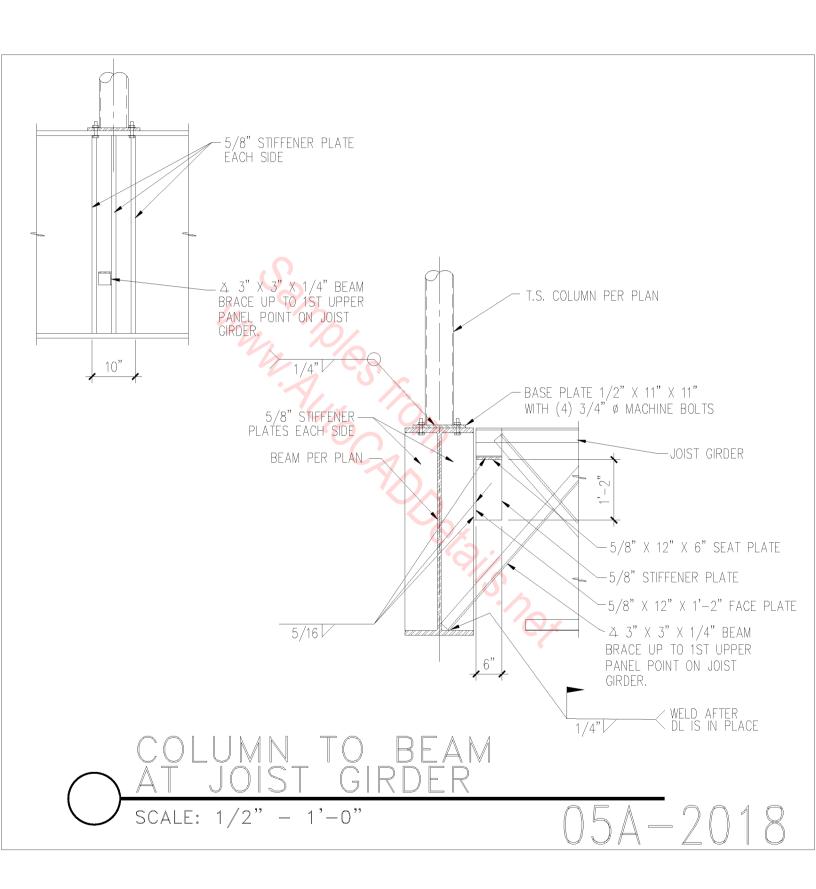


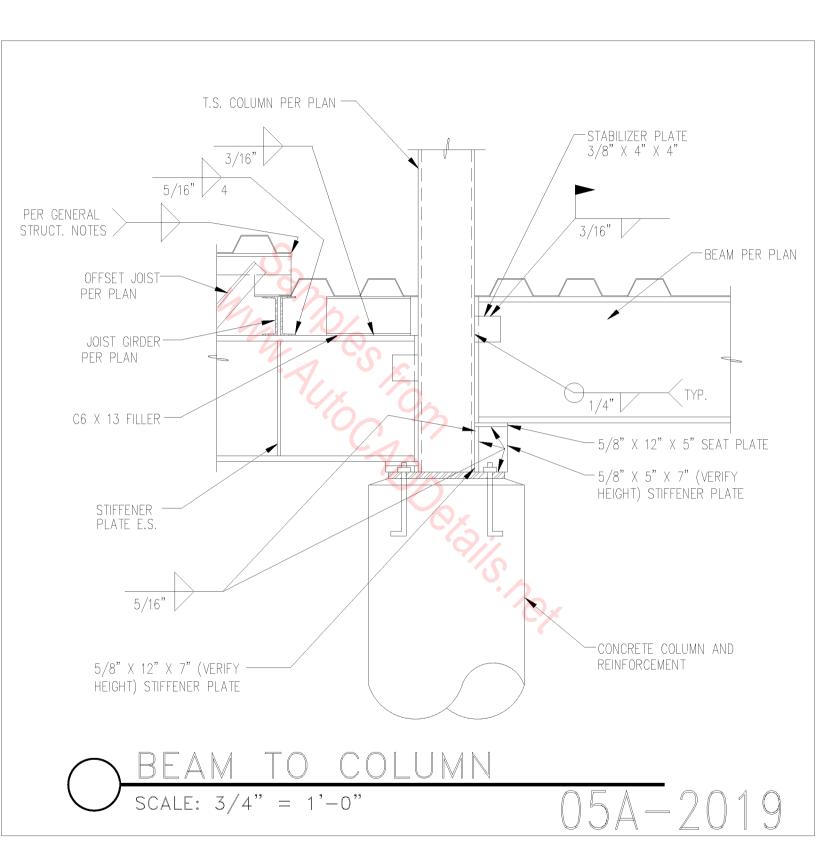


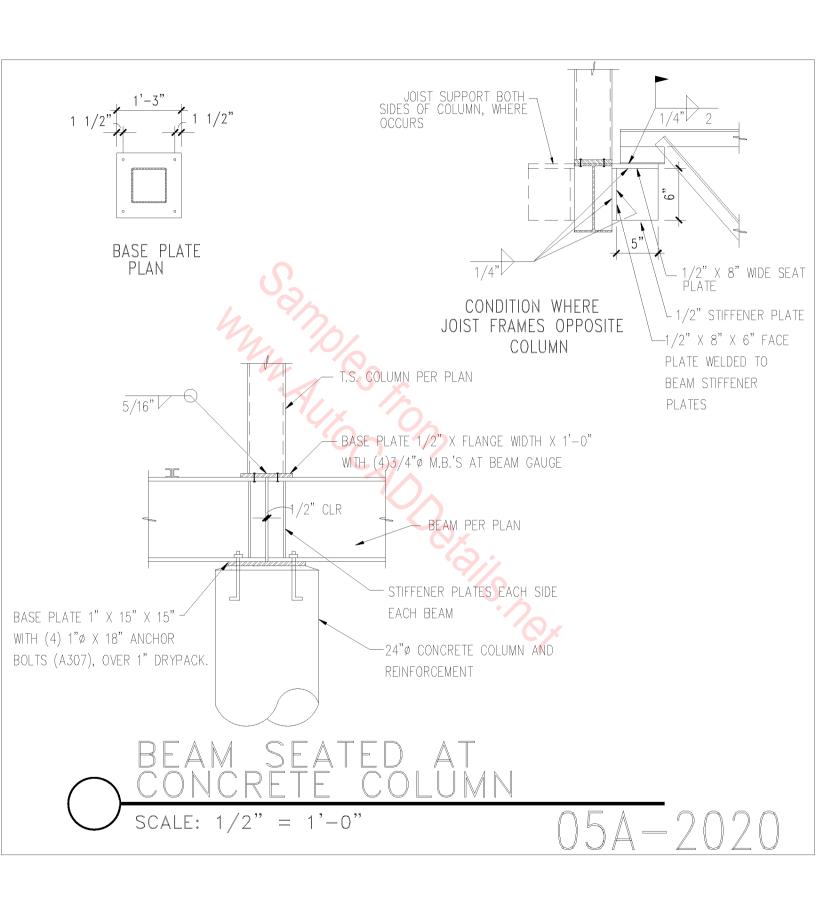
O GIRDER @ NOTCHED BEAM | SCALE: 3/4" = 1'-0" | 05A-2016

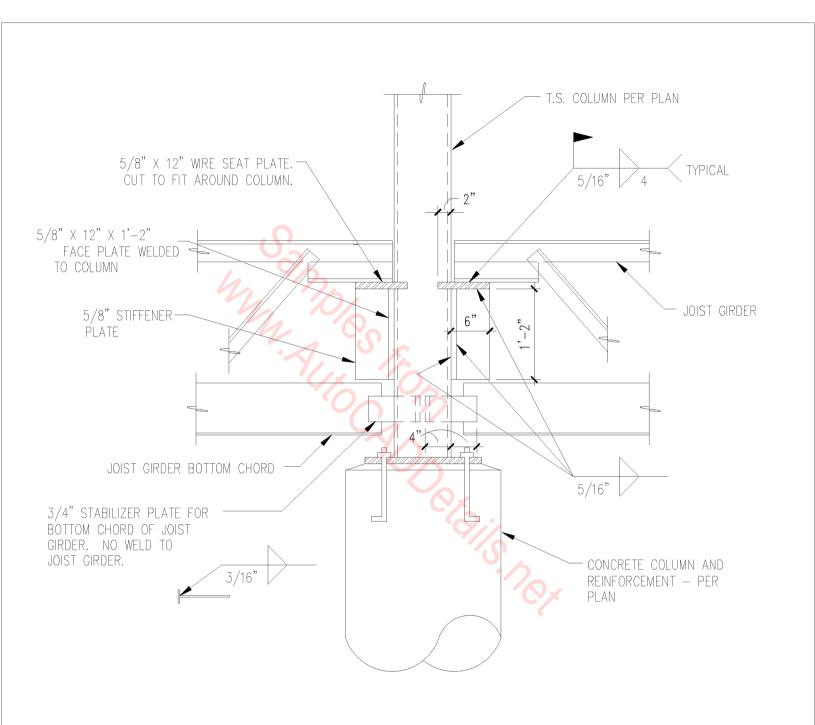


 $O\frac{\text{BEAM/JOIST TO COLUMN}}{\text{SCALE: 3/4" = 1'-0"}}$





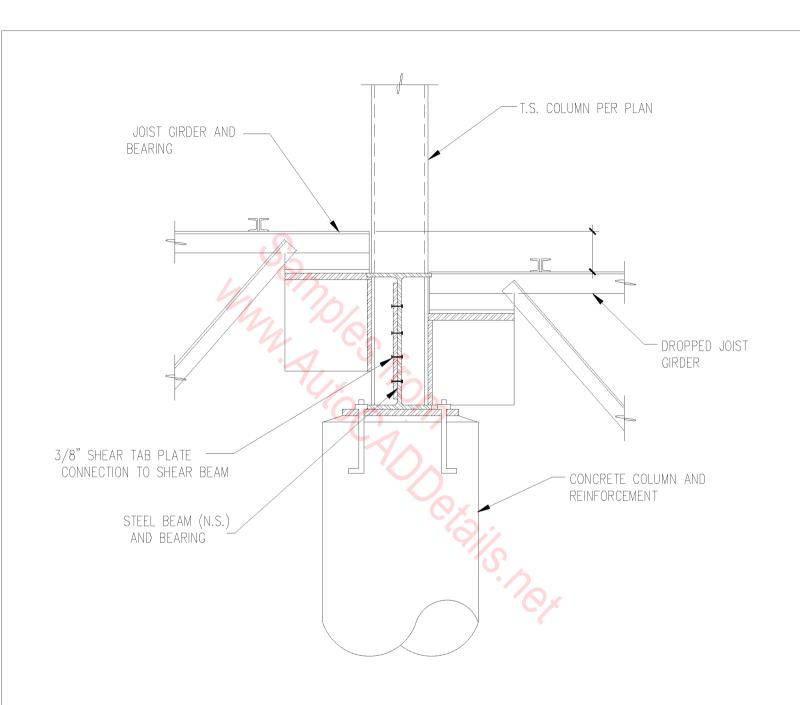




JOIST GIRDER TO COLUMN

SCALE: 3/4" = 1'-0"

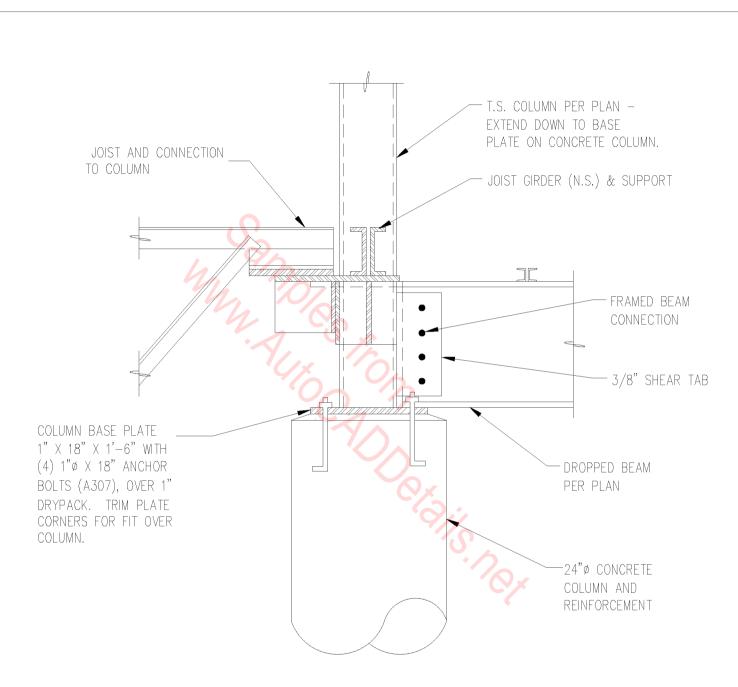
05A - 2021



JOIST AND GIRDER CONNECTION TO COLUMN

SCALE: 3/4" + 1'-0"

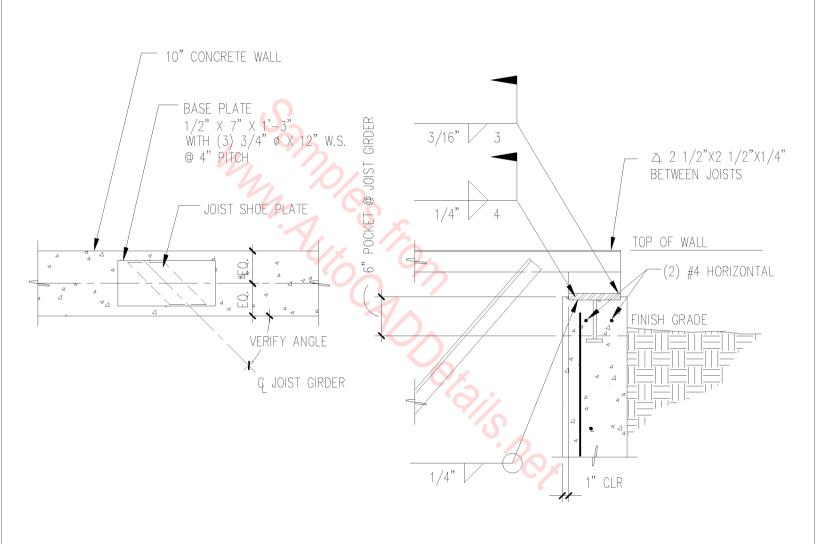
05A-2022



JOIST, GIRDER AND BEAM CONNECTION AT COLUMN

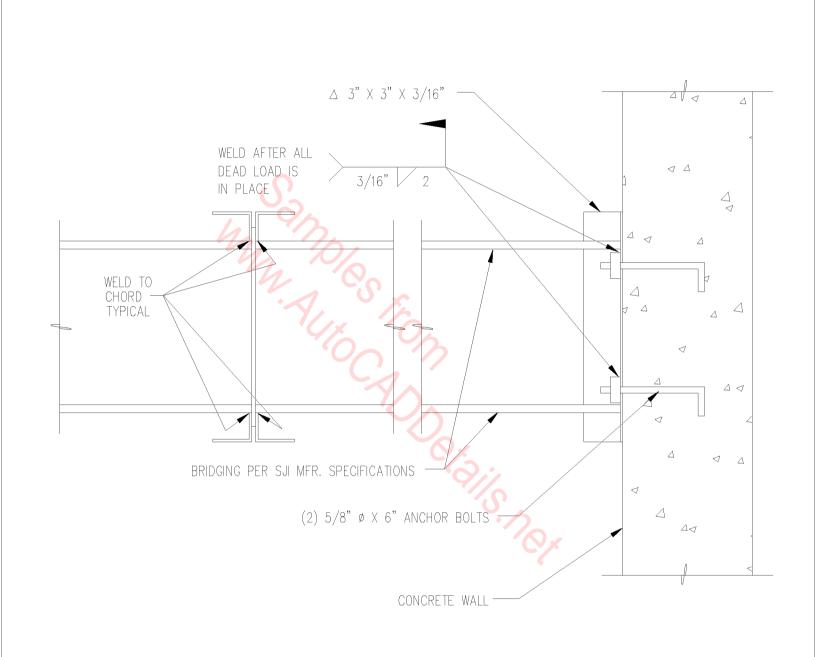
SCALE: 3/4" = 1'-0"

05A - 2023

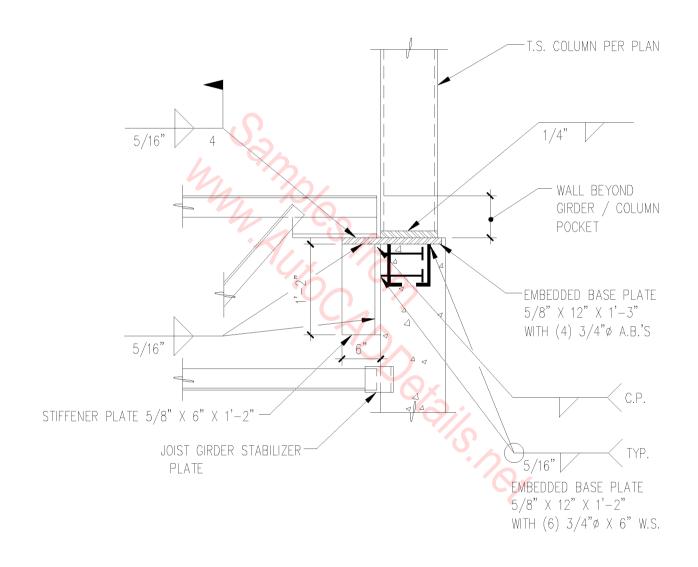


JOIST SEATED AT WALL

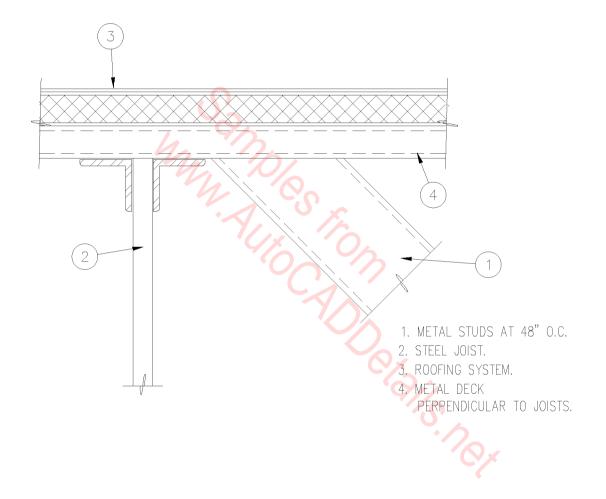
SCALE: 3/4" = 1'-0"

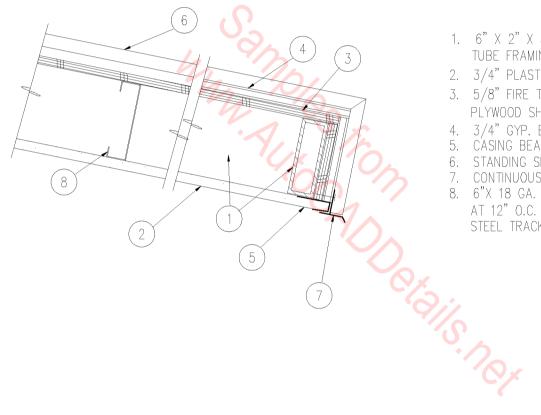


$O = \frac{\text{JOIST BRIDGING AT WALL}}{\text{SCALE: } 3/4" = 1'-0"} = \frac{0.54 - 20.25}{0.54 - 20.25}$



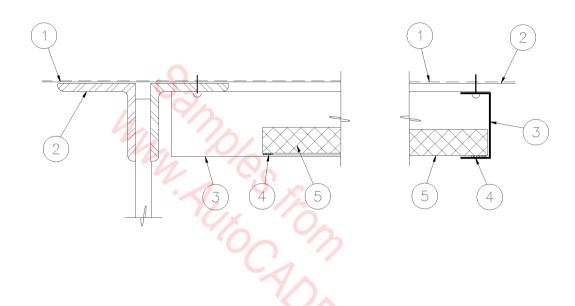
 $O\frac{\text{GIRDER/COLUMN TO WALL}}{\text{SCALE: 3/4"} = 1'-0"}$





- 1. 6" X 2" X 3/16" STEEL TUBE FRAMING.
- 2. 3/4" PLASTER.
- 3. 5/8" FIRE TREATED PLYWOOD SHEATHING.
- 4. 3/4" GYP. BOARD. 5. CASING BEAD.
- 6. STANDING SEAM METAL ROOFING.7. CONTINUOUS DRIP EDGE.
- 8. 6"X 18 GA. STEEL JOISTS AT 12" O.C. W/ 18 GA. STEEL TRACK AT EACH END.

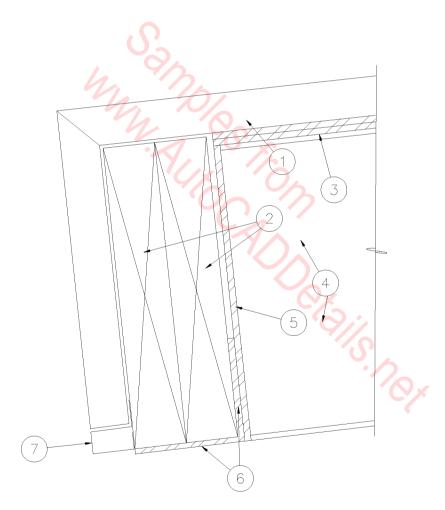
954-2028



- 1. BOTTOM OF METAL DECK.
- STEEL JOISTS.
 2-1/2" X 18GA. METAL STUD. FASTENED TO FLANGE AND ATTACHED AT MID-POINT TO STRUCTURAL METAL ABOVE.
- 4. ADHESIVE.
- 5. 7 LBS DENSITY/RIGID FIBERGLASS CORE MATERIAL, 1" THICK, WRAPPED IN FABRIC.

- 1. STANDING SEAM METAL ROOF SYSTEM.
- 2. PAIRED 2X12 FASCIA BOLTED TO PLATE.
- 3. ROOF DECK.
- 4. STEEL BEAM.

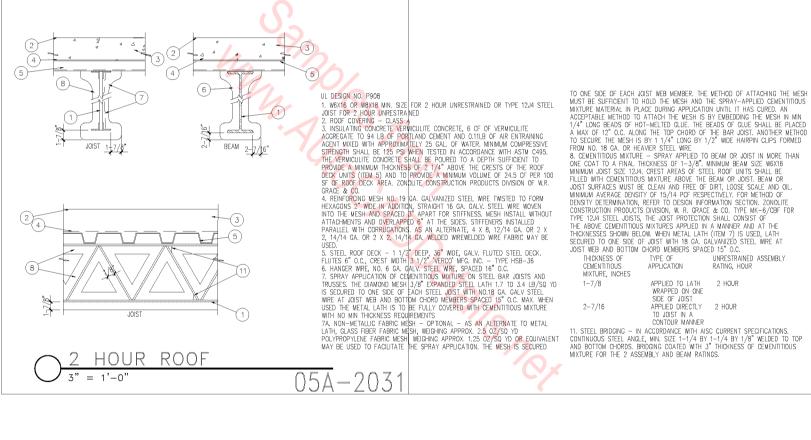
- 5. EXISTING STEEL PLATE.
- 6. STEEL ANGLE.
- 7. METAL DRIP FLASHING.

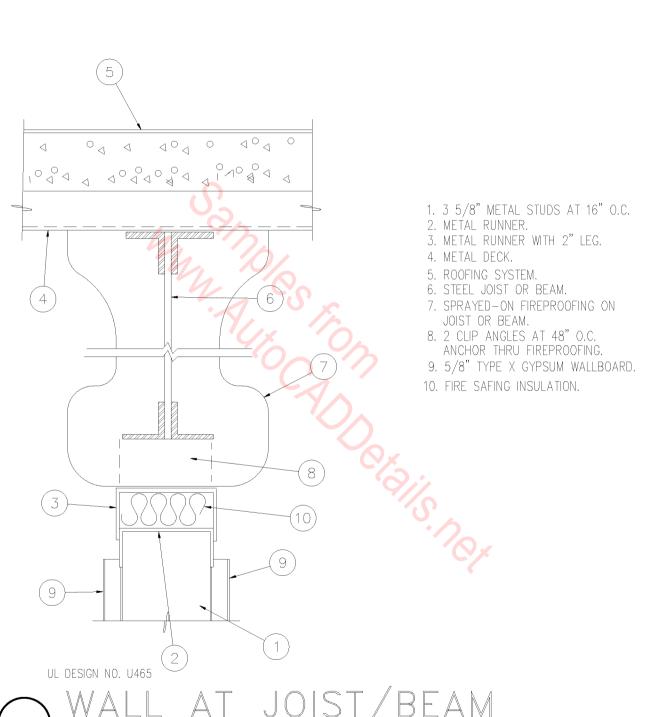


METAL ROOF OVERHANG

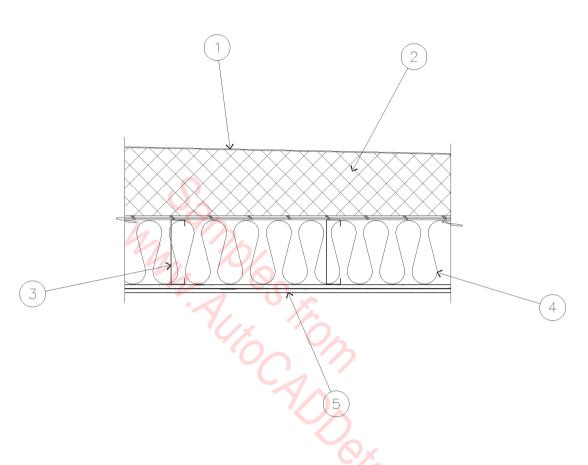
SCALE: 3" = 1'-0"

RHANG 05A-2030



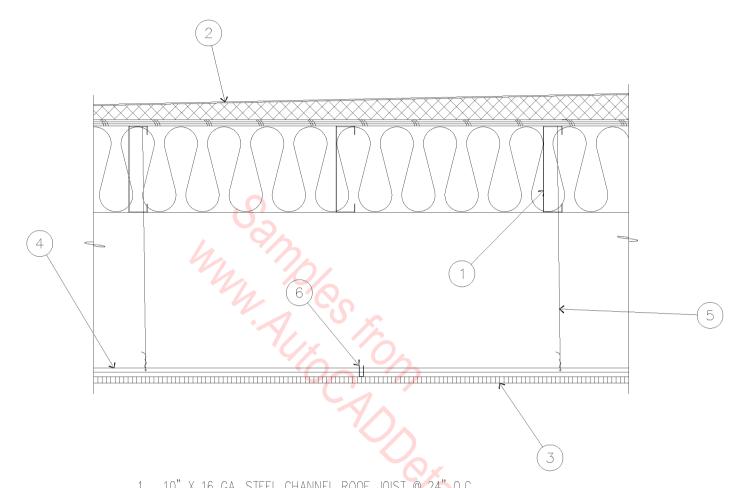


SCALE: 3'' = 1'-0''



- 1. SINGLE PLY MEMBRANE ROOFING.
- 2. TAPERED RIGID INSULATION.
- 3. 10" X 16 GA. STEEL CHANNEL ROOF JOISTS.
- 4. FIBERGLASS BATT INSULATION.
- 5. 2 LAYERS 5/8" TYPE "X" GYPSUM BOARD. FIRE TAPE ALL JOINTS AND FASTENERS.

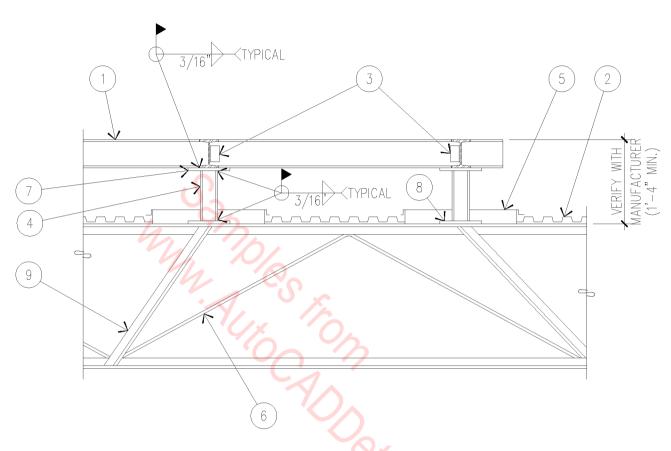
SIMILAR TO U.L. DESIGN NO. P512.



- 1. 10" X 16 GA. STEEL CHANNEL ROOF JOIST @ 24" O.C.
 2. SINGLE PLY MEMBRANE ROOF OVER TAPERED INSULATION.
- 3. 24" X 24" LAY-IN ACOUSTICAL CEILING PANELS
- 4. STEEL SUSPENDED CEILING FRAMING MEMBERS.
- 5. 12 SWG GALVANIZED HANGER WIRE SPACED @ 48" O.C. ALONG MAIN RUNNERS.
- 6. 28 MSG SPRING STEEL HOLD DOWN CLIPS @ 24" O.C.

SIMILAR TO U.L. DESIGN NO. G241

05A - 2034



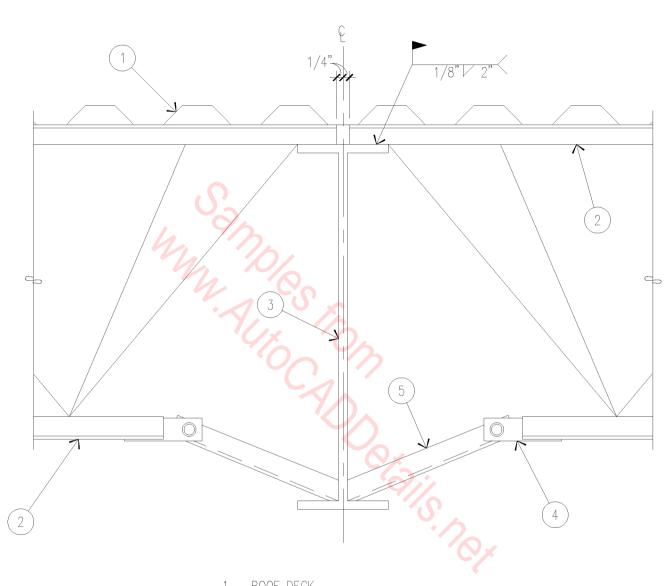
- W6 X 12 WIDE FLANGE BEAM.
- STEEL ROOF DECKING.
- 3. 2 1/2" X 2 1/2" X 1/4" X 3" LONG STEEL ANGLE.
- 4. 3" Ø GALVANIZED PIPE.
- 5. PITCH PAN.
- 6. STEEL JOIST, SEE STRUCTURAL. 7. 6" X 6" X 1/2" CAP PLATE.
- 4" X 4" X 1/2" PLATE, WELD TO TOP OF JOIST AND TUBE WITH 3/16" FILLET X 2" EACH SIDE.
 ADD ANGLE UNDER POINTS OF SUPPORT IF OTHER THAN PANEL POINTS (TYPICAL)
- POINTS (TYPICAL).

NOTE: SEE ARCHITECTURAL DRAWINGS FOR PLAN LOCATIONS.

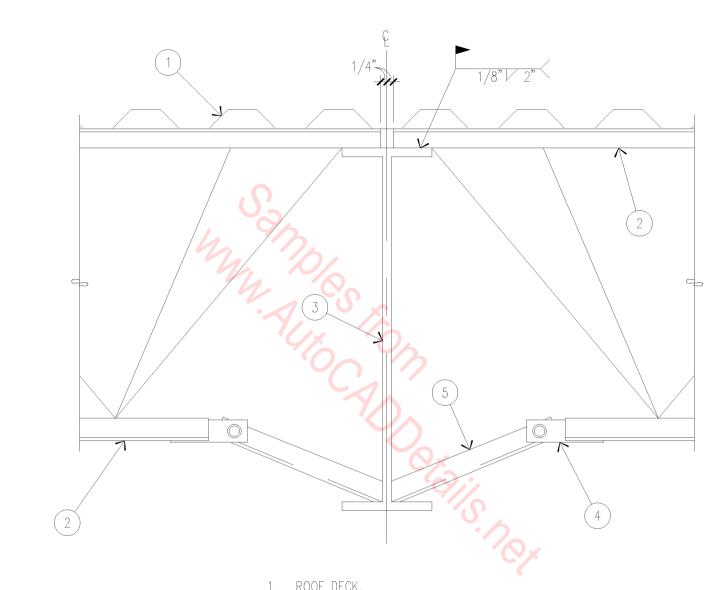


NOT TO SCALE

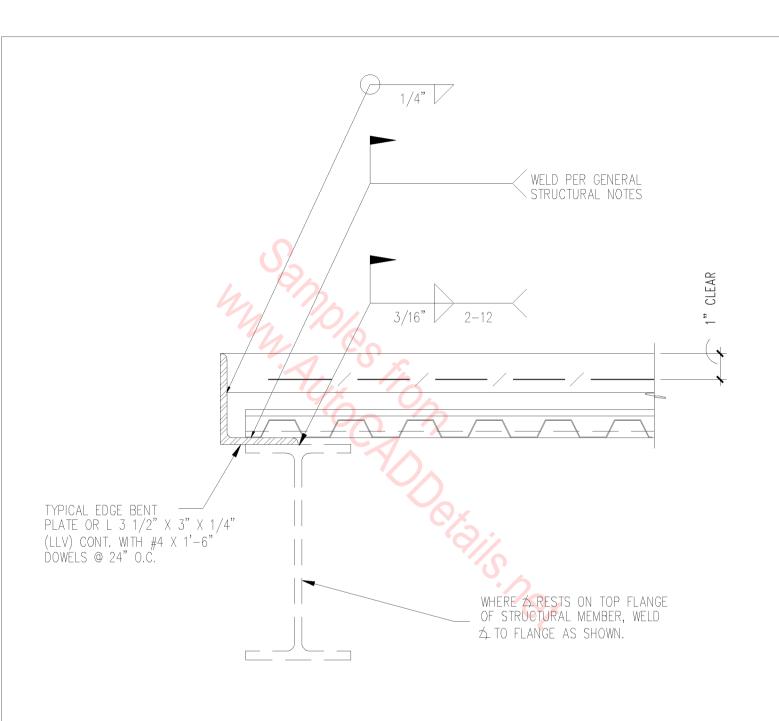
0.05 - 2035



- ROOF DECK.
- STEEL JOIST SEE STRUCTURAL.
- 3. STEEL GIRDER SEE STRUCTURAL.
- 4. SHOP WELDED CLIP ANGLE.
- JOIST BRACE.



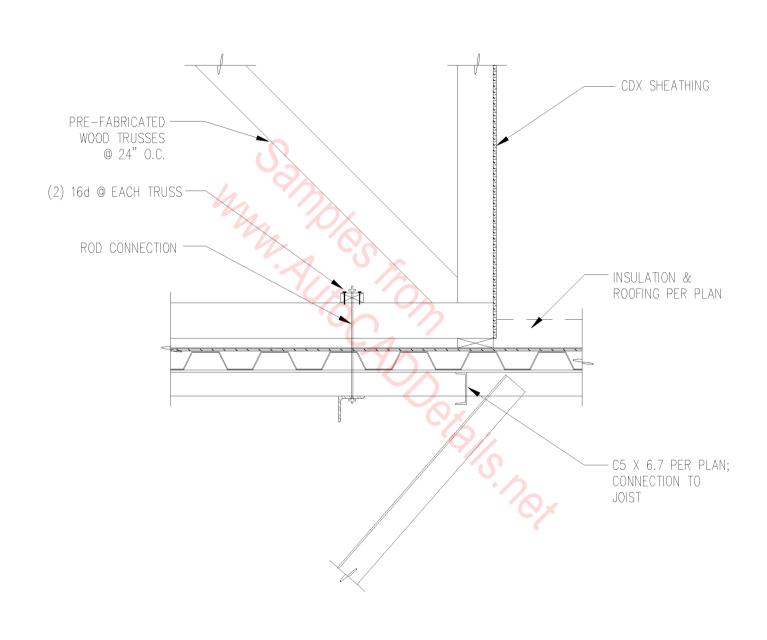
- ROOF DECK.
- STEEL JOIST SEE STRUCTURAL.
 STEEL GIRDER SEE STRUCTURAL.
- 4. SHOP WELDED CLIP ANGLE.
- 5. JOIST BRACE.



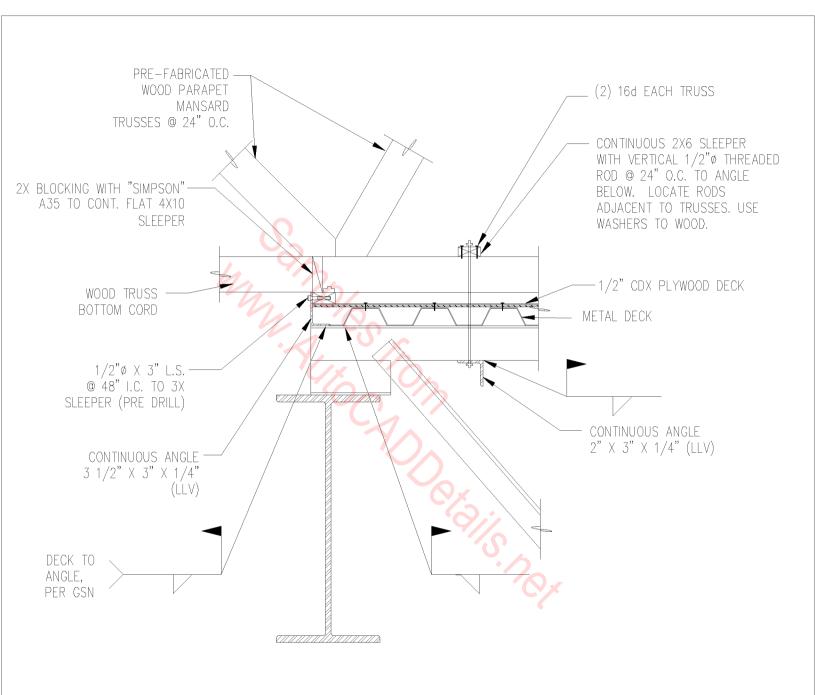
TLOOR EDGE

SCALE: 3/4" = 1'-0"

 $\overline{05A} - 4001$

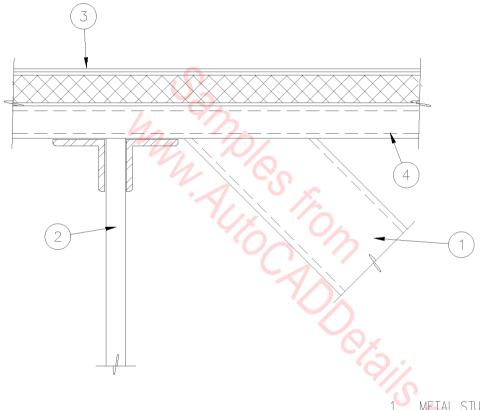


 $O\frac{\text{MANSARD TRUSS TO ROOF}}{3/4" = 1'-0"}$



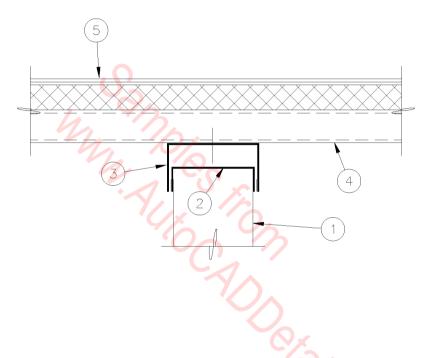
REINFORCED FRAMING @ PARAPET

SCALE: $3/4" = \overline{1'-0"}$

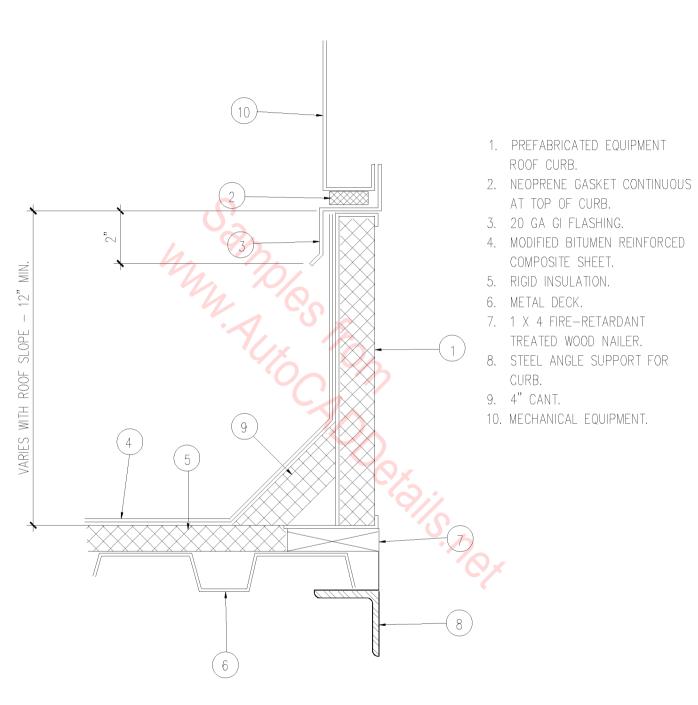


- 1. METAL STUDS AT 48" O.C.
- 2. STEEL JOIST.
- 3. ROOFING SYSTEM.
- METAL DECK PERPENDICULAR TO JOISTS.

SCALE: 1" = 1'-0"

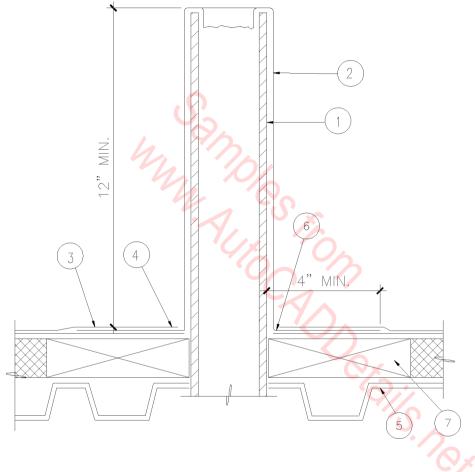


- 1. METAL STUDS AT 48" O.C. WALL SUPPORTS.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. ROOFING SYSTEM.



EQUIPMENT CURB

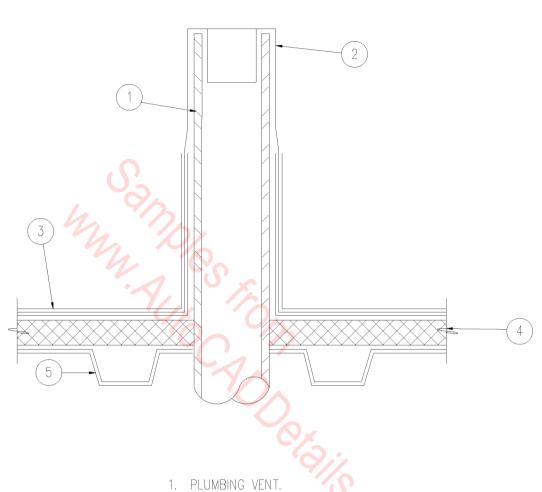
SCALE: 3'' = 1'-0''



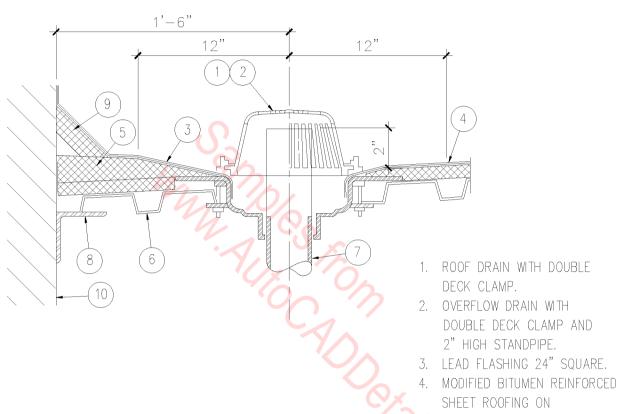
- 1. PLUMBING VENT PIPE.
- 2. 3.5# LEAD FLASHING SLEEVE WITH SQ. BASE PLATE.
 ROLL OVER INTO VENT PIPE 1/2" DEEP.
- 3. MODIFIED BITUMEN REINFORCED COMPOSITE SHEET ROOFING ON RIGID INSULATION.
- 4. LAP SHEET ROOFING OVER LEAD BASE PLATE.
- 5. STRUCTURAL METAL DECK.
- 6. SEALANT ALL AROUND.
- 7. 2 x 6 NAILER AT PERIMETER.

SCALE: 3" = 1'-0"

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- 2. LEAD FLASHING.
- 3. MODIFIED BITUMEN REINFORCED COMPOSITE SHEET.
- 4. RIGID INSULATION.
- 5. METAL DECK.

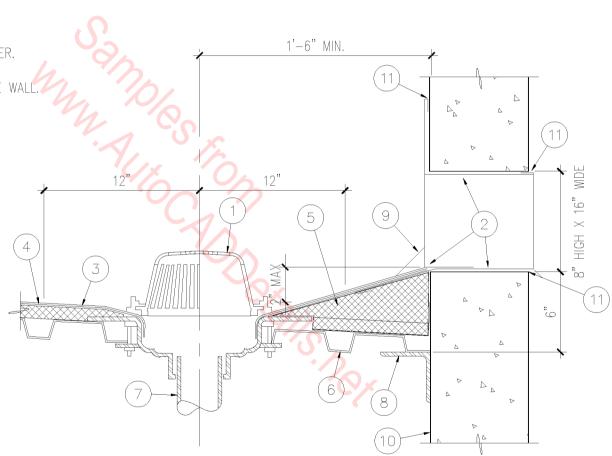


- SHEET ROOFING ON RIGID INSULATION.
- 5. RIGID INSULATION CRICKETS
 WHERE REQUIRED, SEE ROOF
 PLAN, MIN 1/4"/LF AT CRICKET
 VALLEY.
- 6. METAL DECK.
- 7. ROOF DRAIN PIPE.
- 8. STEEL ANGLE LEDGER.
- 9. 4" CANT STRIP.
- 10. FACE OF MASONRY WALL.

ROOF & OVERFLOW DRAIN

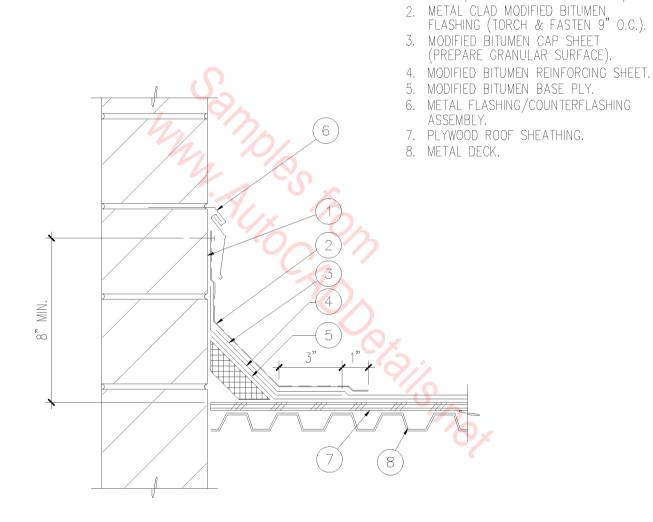
SCALE: 1 1/2" = 1'-0"

- 1. ROOF DRAIN WITH DOUBLE DECK CLAMP.
- 2. 20 GA. OVERFLOW SCUPPER AT PARAPET WALL, 2" MAX. ABOVE ROOF DRAIN INVERT.
- 3. LEAD FLASHING 24" SQUARE.
- 4. MODIFIED BITUMEN REINFORCED SHEET ROOFING ON RIGID INSULATION.
- 5. RIGID INSULATION CRICKETS WHERE REQUIRED, SEE ROOF PLAN, MIN. 1/4" / LF AT CRICKET VALLEY.
- 6. METAL DECK.
- 7. ROOF DRAIN PIPE.
- 8. STEEL ANGLE LEDGER.
- 9. 4" CANT.
- 10. FACE OF CONCRETE WALL
- 11. SEALANT.



ROOF DRAIN AND OVERFLOW SCUPPER

 $1 \ 1/2$ " = 1'-=0"



REGLET AT METAL ROOF

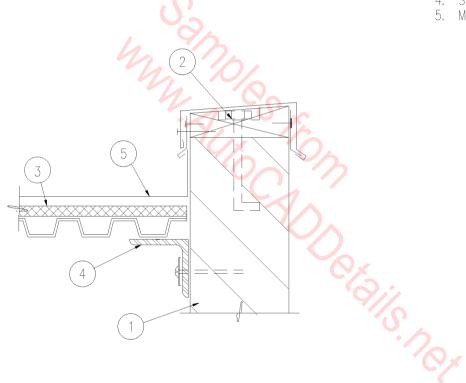
SCALE: 3'' = 1'-0''

05A-4011

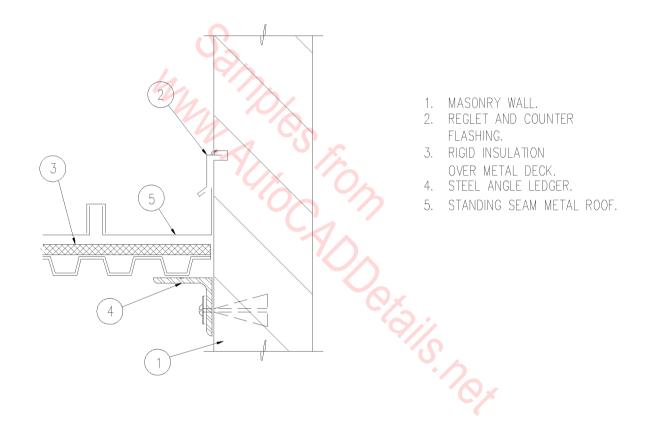
1. WALL (PRIME MASONRY SURFACES).

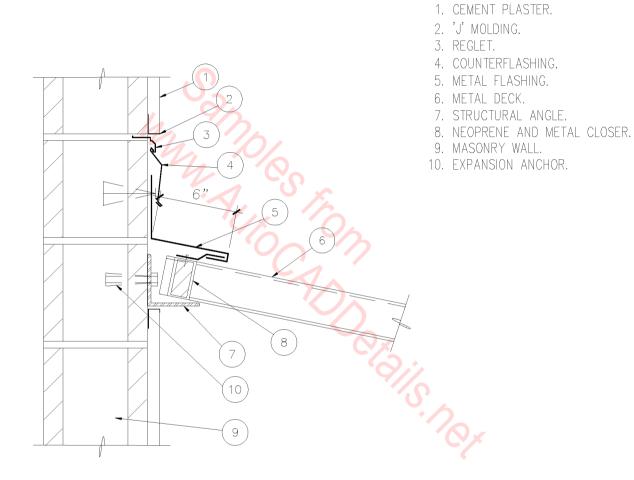


- 2. PARAPET CAP.
- 3. RIGID INSULATION OVER METAL DECK.
- 4. STEEL ANGLE LEDGER.5. METAL ROOFING.



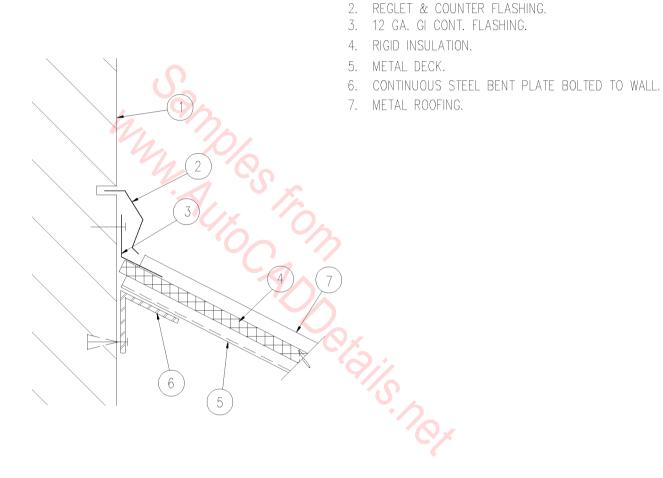
SCALE: 1 /2" = 1'-0"





METAL DECK ROOF EDGE

SCALE: $1 \frac{1}{2}$ " = 1'-0"

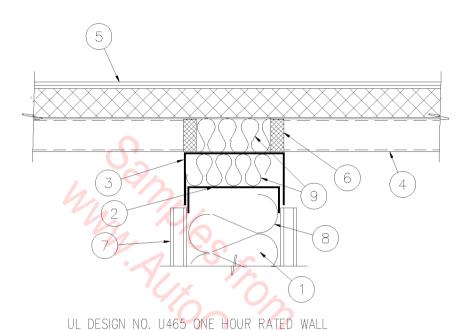


1. MASONRY WALL.

METAL ROOF FLASHING

SCALE: 1" = 1'-0"

05A-4015



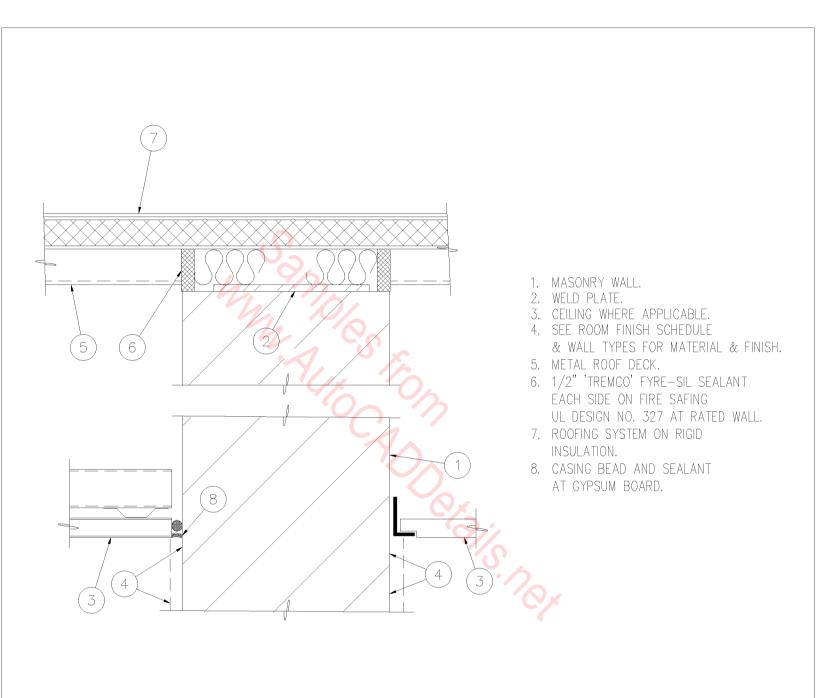
- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. ROOFING SYSTEM.
- 6. 1/2" 'TREMCO' FYRE-SIL SEALANT ON EACH SIDE OF FIRE SAFING.

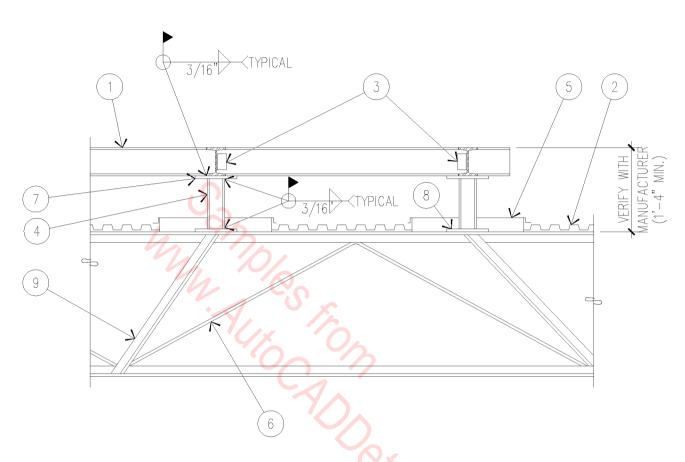
UL THROUGH-PENETRATION FIRESTOP SYSTEM DESIGN NO. 327

- 7. 5/8" TYPE "X" GYPSUM BOARD.
- 8. R-11 3 1/2" BATT SOUND INSULATION WHERE APPLICABLE.
- 9. FIRE SAFING INSULATION.

WALL AT ROOF DECK

SCALE: 3" = 1'-0"

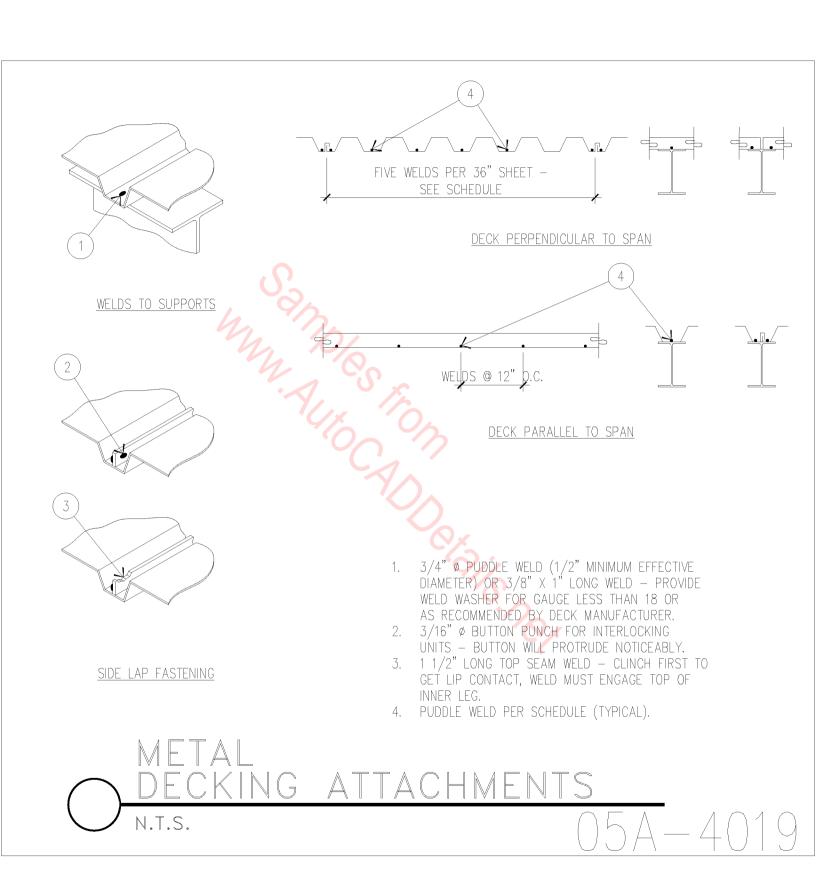


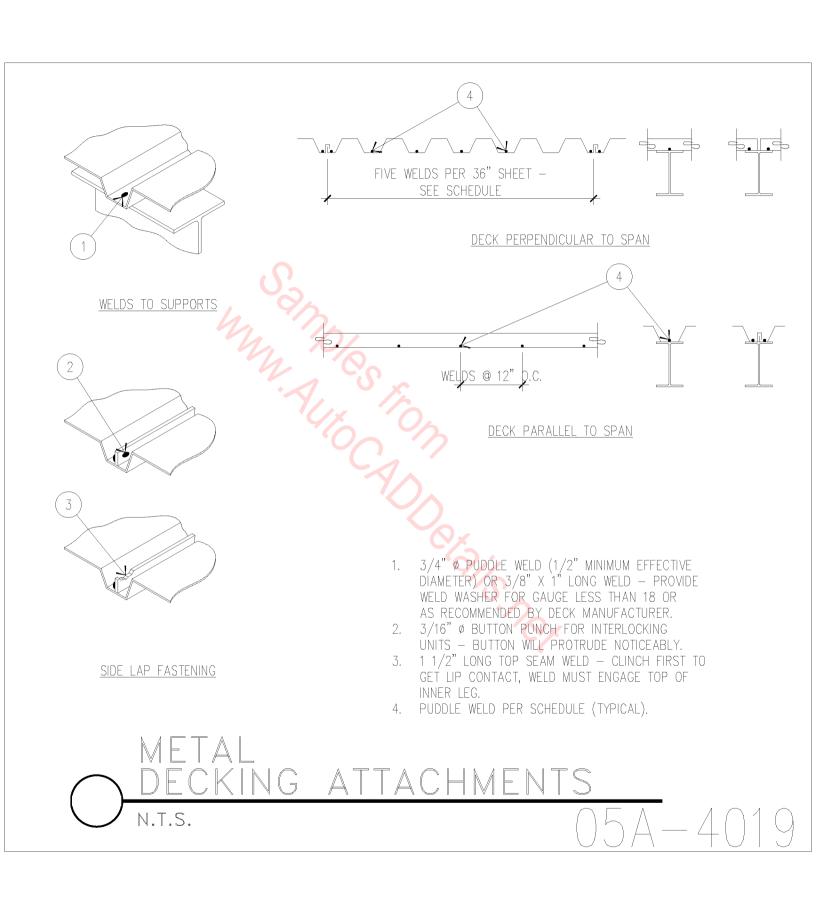


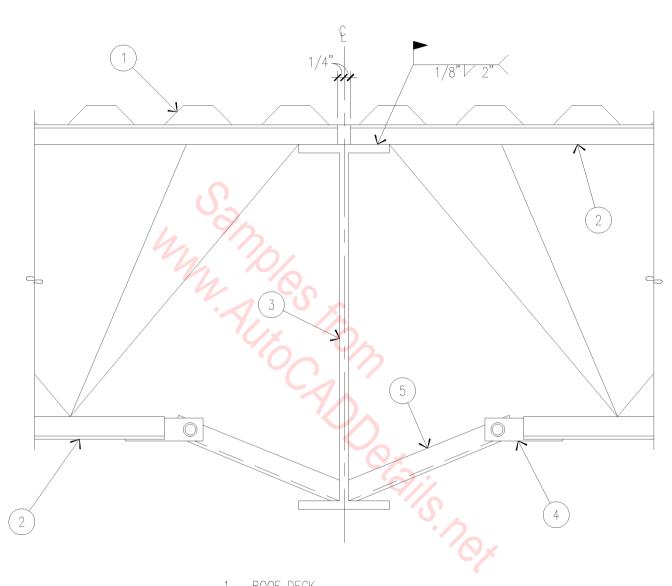
- W6 X 12 WIDE FLANGE BEAM.
- STEEL ROOF DECKING.
- 3. 2 1/2" X 2 1/2" X 1/4" X 3" LONG STEEL ANGLE.
- 4. 3" Ø GALVANIZED PIPE.
- 5. PITCH PAN.
- 6. STEEL JOIST, SEE STRUCTURAL. 7. 6" X 6" X 1/2" CAP PLATE.
- 4" X 4" X 1/2" PLATE, WELD TO TOP OF JOIST AND TUBE WITH 3/16" FILLET X 2" EACH SIDE.
 ADD ANGLE UNDER POINTS OF SUPPORT IF OTHER THAN PANEL POINTS (TYPICAL)
- POINTS (TYPICAL).

NOTE: SEE ARCHITECTURAL DRAWINGS FOR PLAN LOCATIONS.

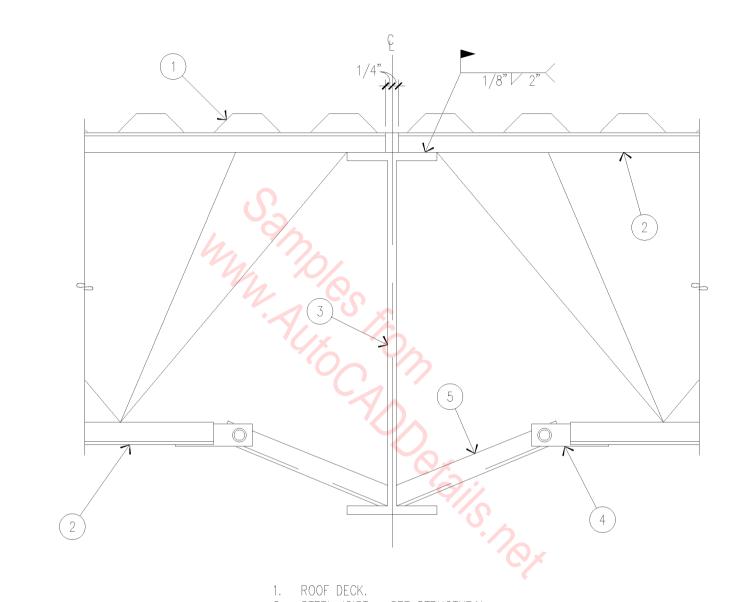
NOT TO SCALE



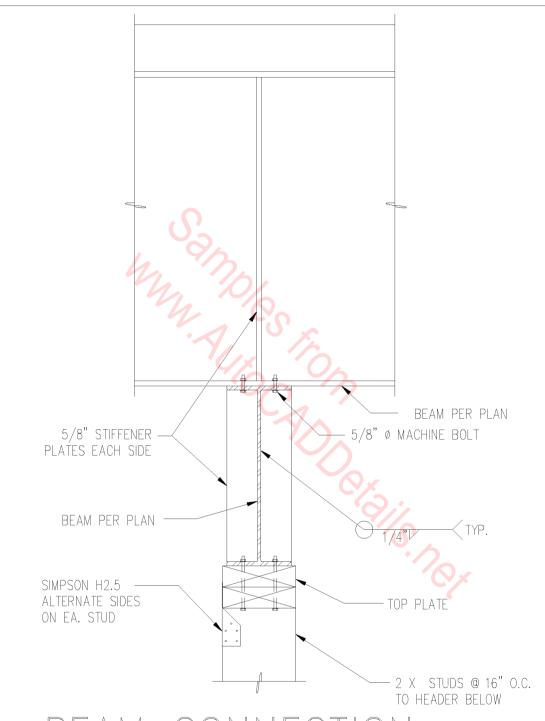




- ROOF DECK.
- STEEL JOIST SEE STRUCTURAL.
- 3. STEEL GIRDER SEE STRUCTURAL.
- 4. SHOP WELDED CLIP ANGLE.
- 5. JOIST BRACE.

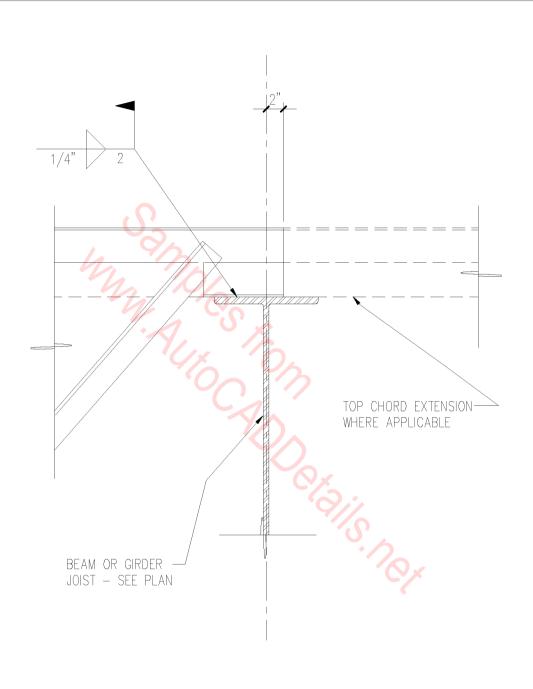


- STEEL JOIST SEE STRUCTURAL.
 STEEL GIRDER SEE STRUCTURAL.
- 4. SHOP WELDED CLIP ANGLE.
- 5. JOIST BRACE.



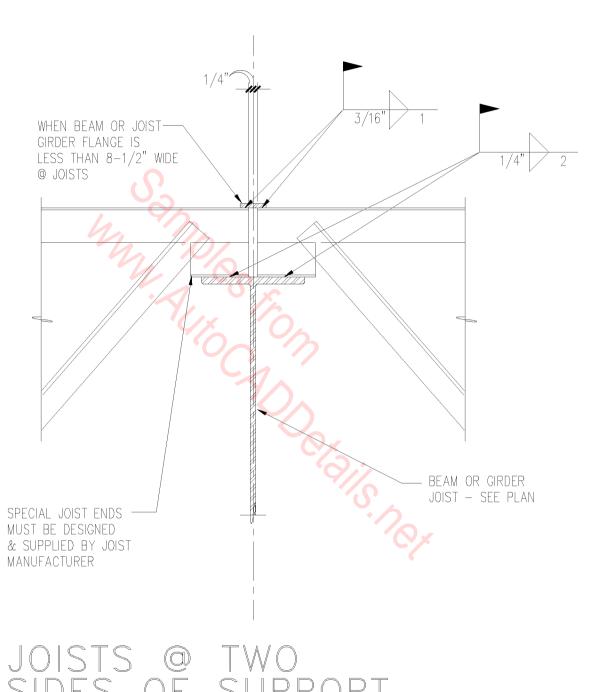
BEAM CONNECTION

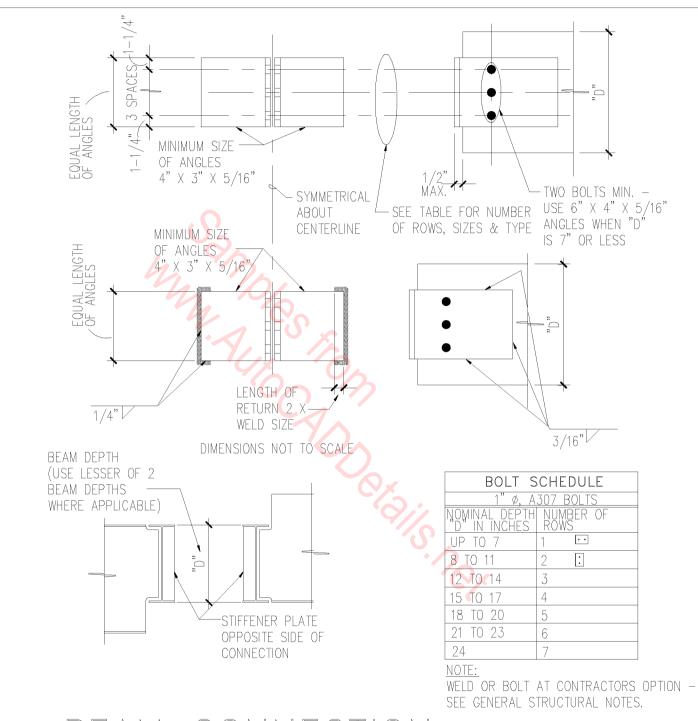
SCALE: $1 \frac{1}{2} = 1'-0''$



END BEARING JOIST

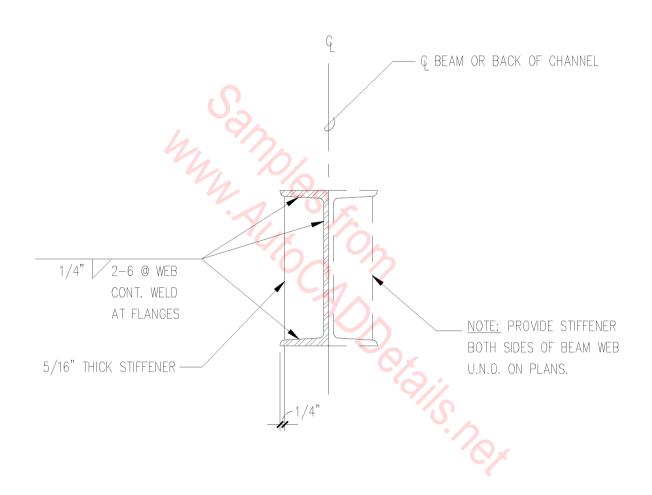
SCALE: 3/4" = 1'-0"





BEAM CONNECTION

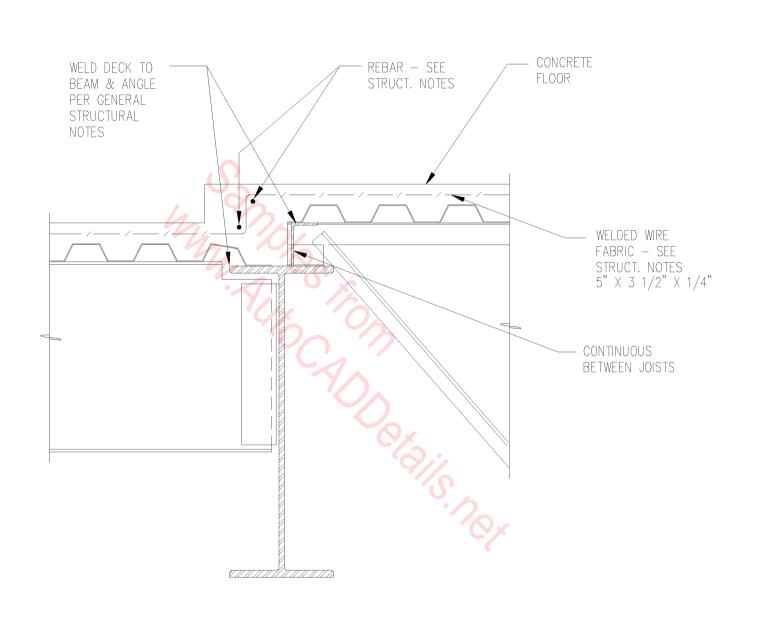
SCALE: 1/2" = 1'-0"



TYPICAL STIFFENER

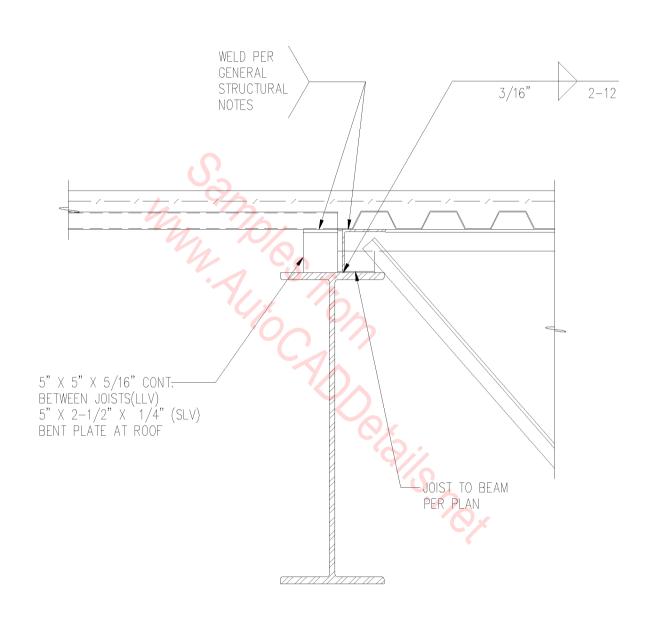
SCALE: 3/4" = 1'-0"

<u>05A-1005</u>



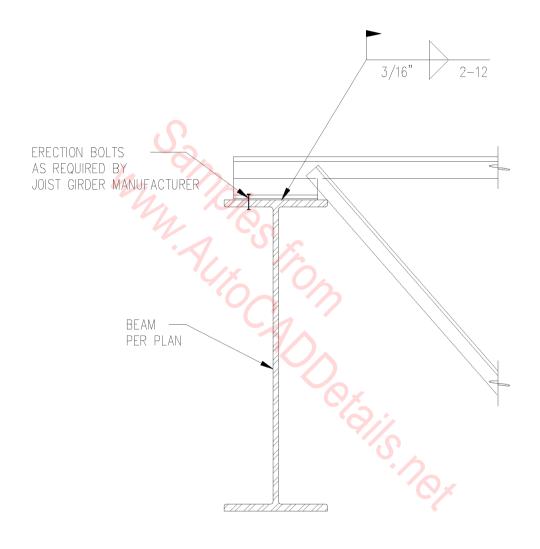
DROPPED FLOOR

SCALE: 3/4" = 1'-0"

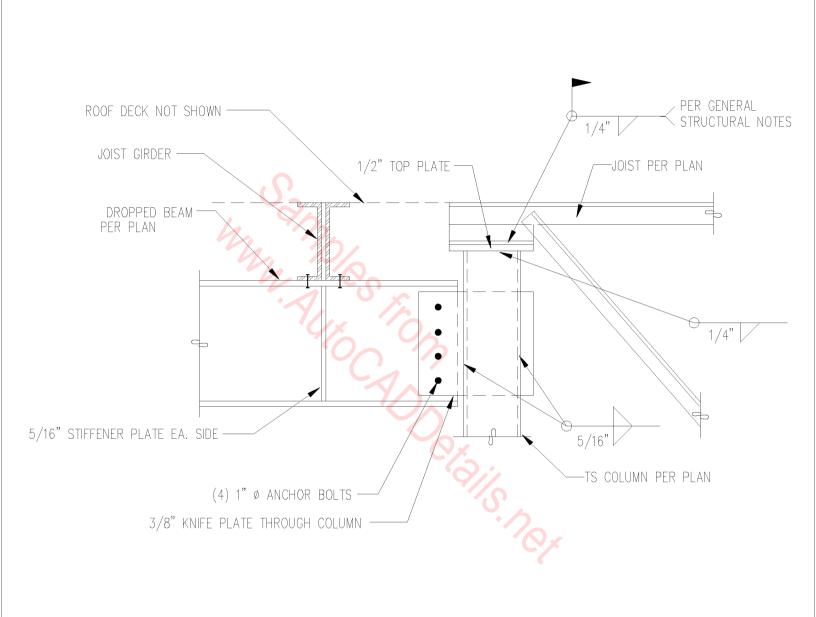


DECK DIRECTION CHANGE

SCALE: 3/4" = 1'-0"

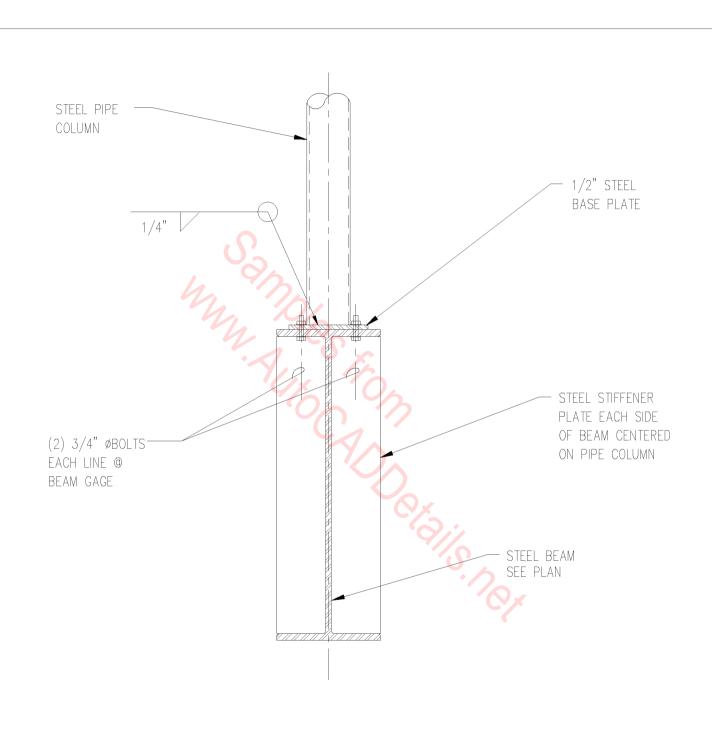


 $\frac{\text{JOIST GIRDE}}{\text{SCALE: 3/4"} = 1'-0"}$



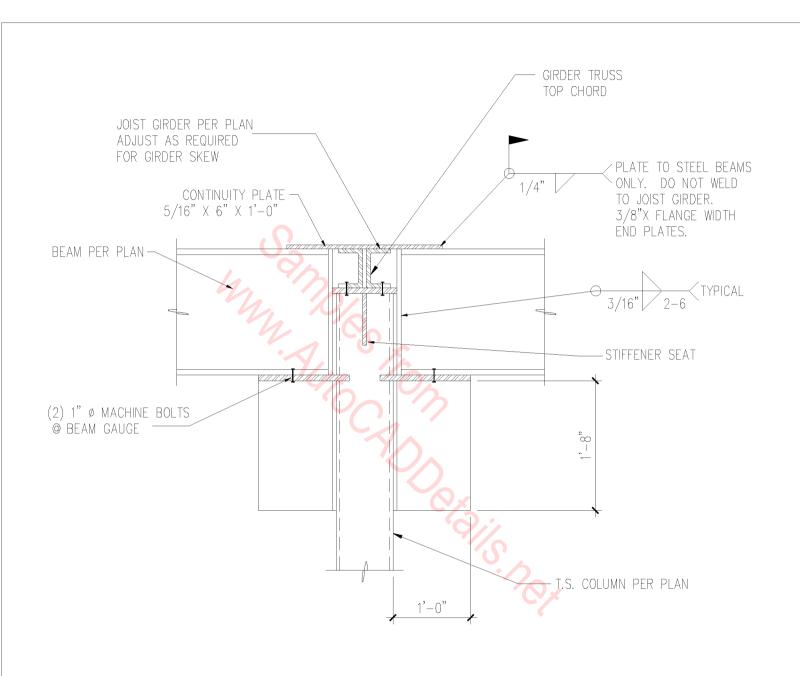


05A-1009



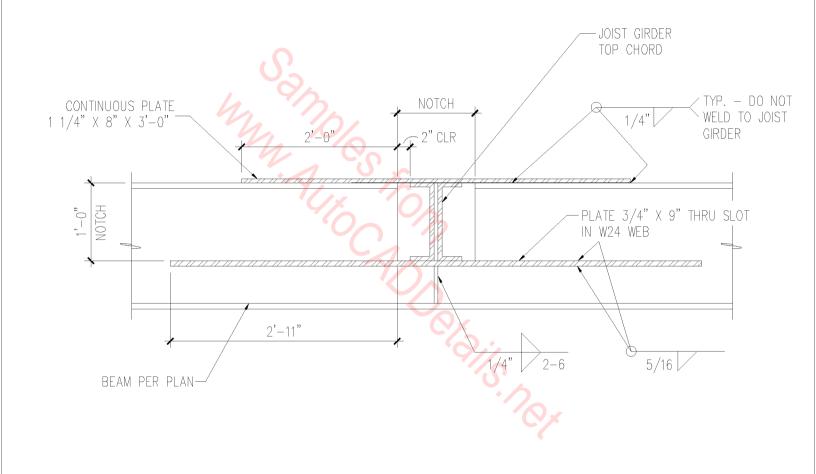
COLUMN TO BEAM

SCALE: 3/4" = 1'-0"

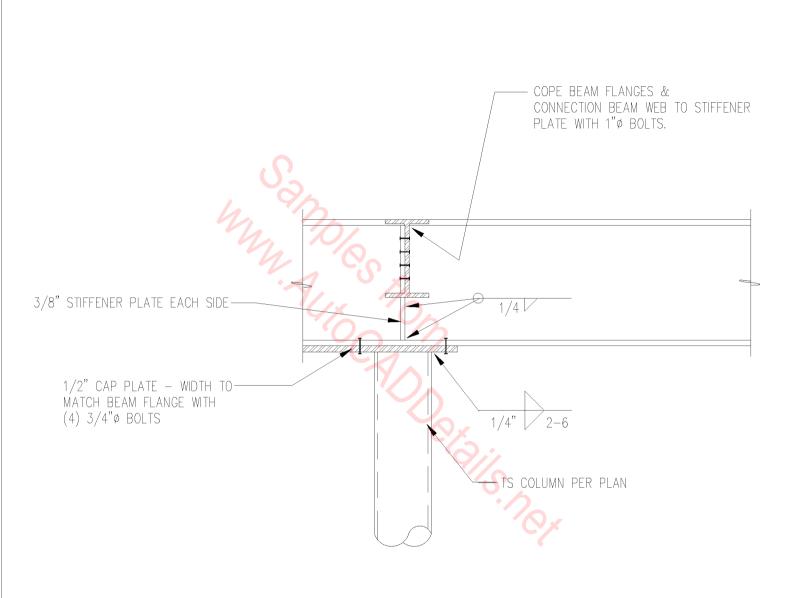


BEAMS & GIRDER @ COLUMN SEAT

SCALE: 3/4" = 1'-0"

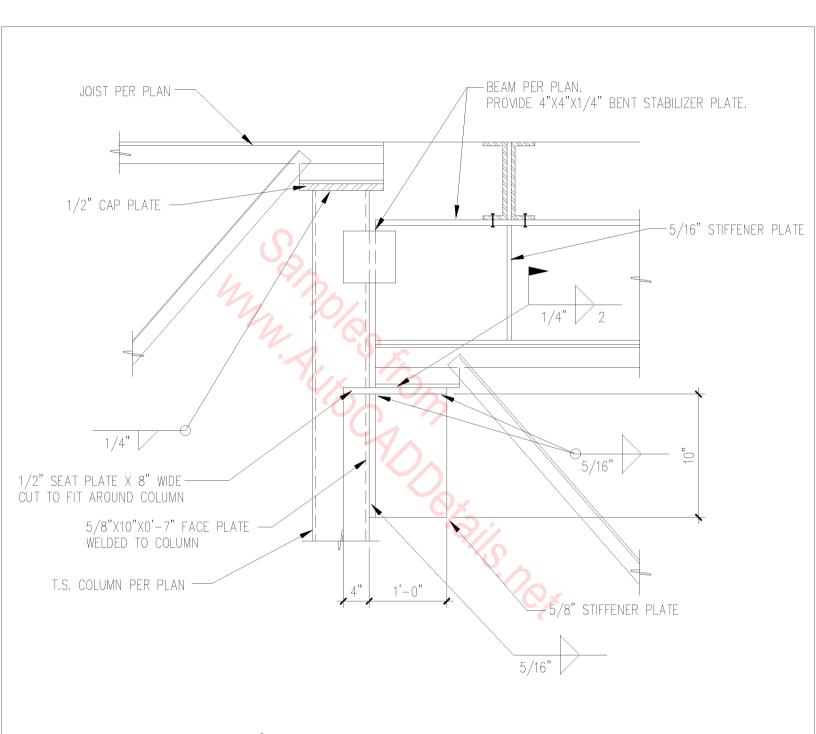




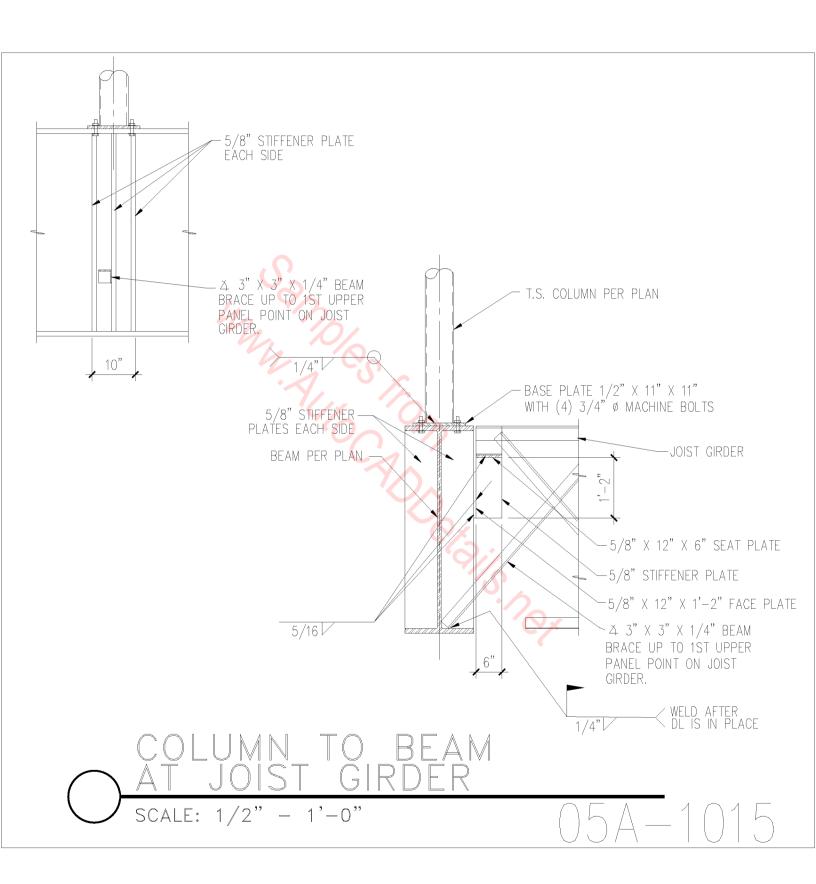


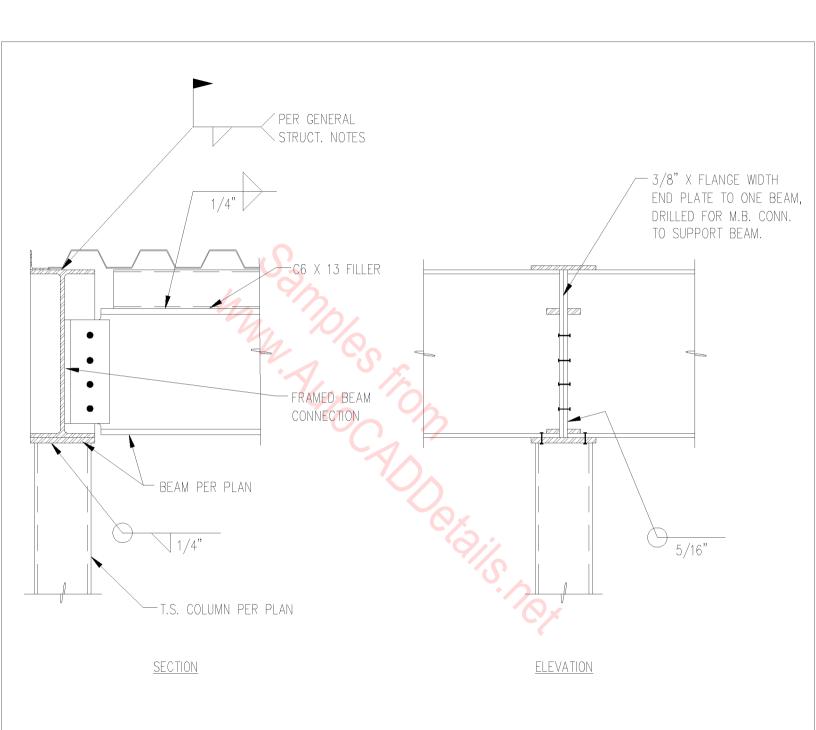
GIRDER TO BEAM © COLUMN SEAT

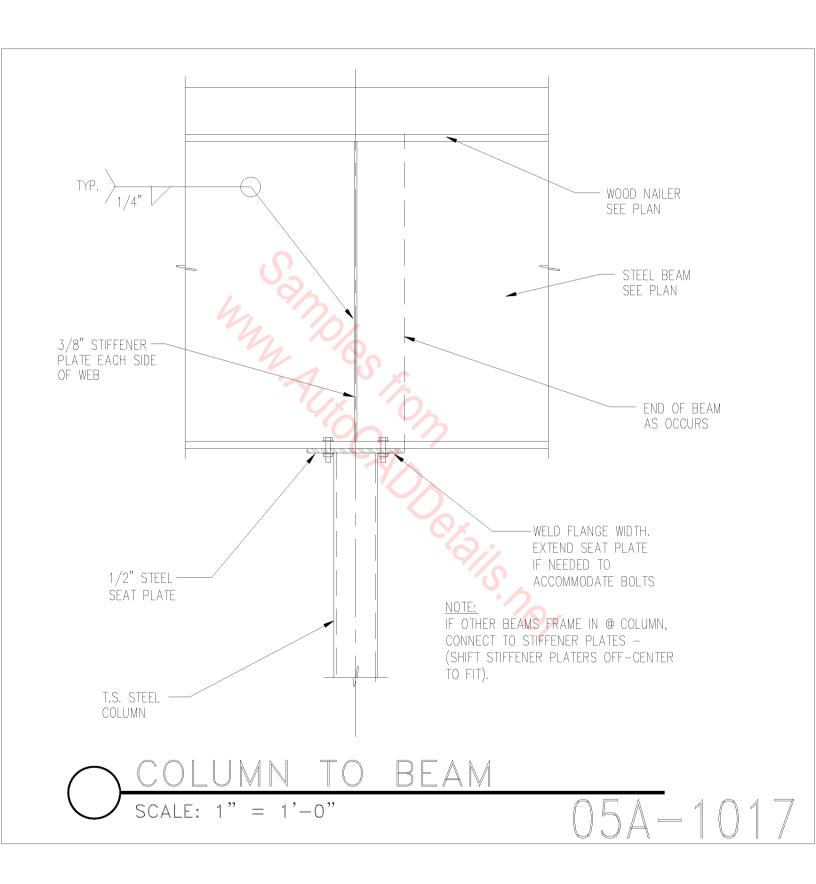
SCALE: 3/4" = 1'-0"

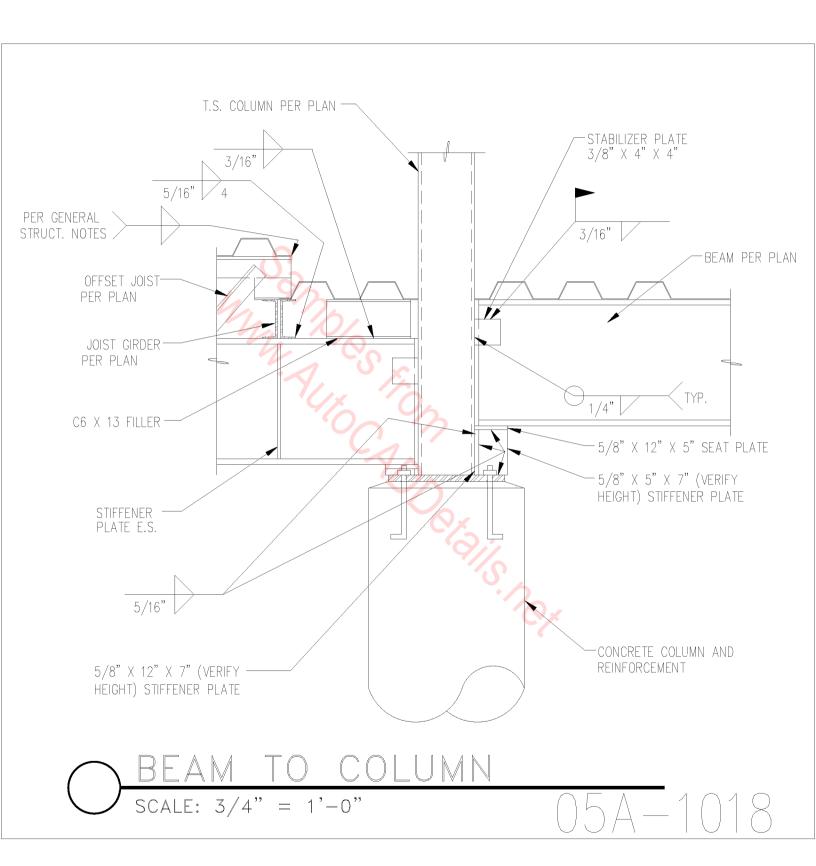


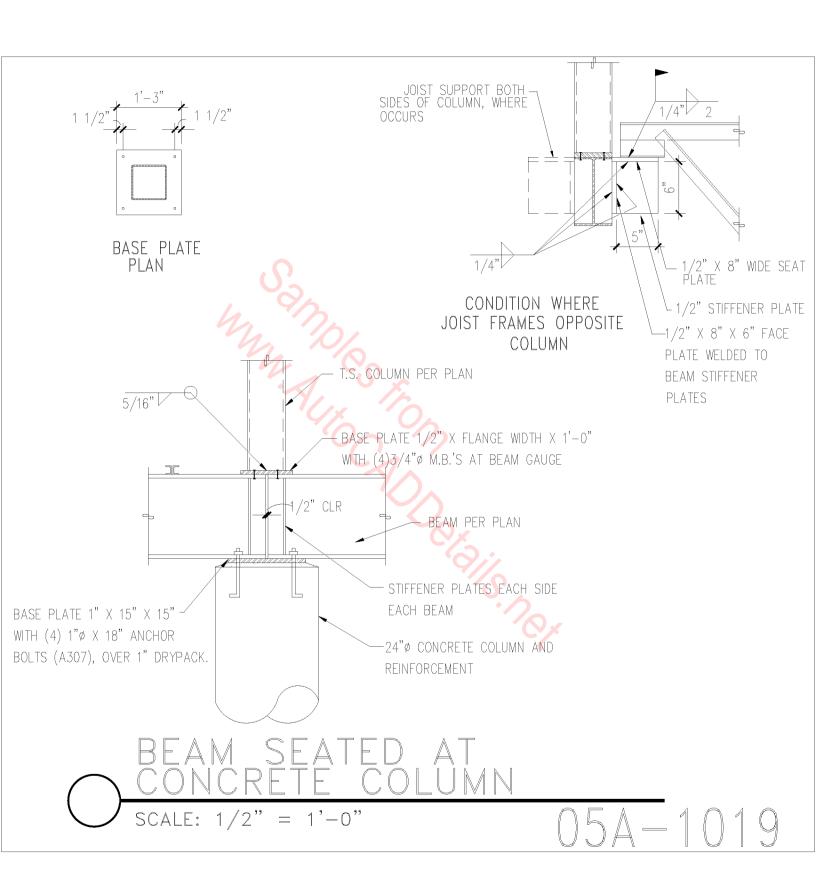
 $O = \frac{\text{BEAM/JOIST TO COLUMN}}{\text{SCALE: 3/4" = 1'-0"}}$

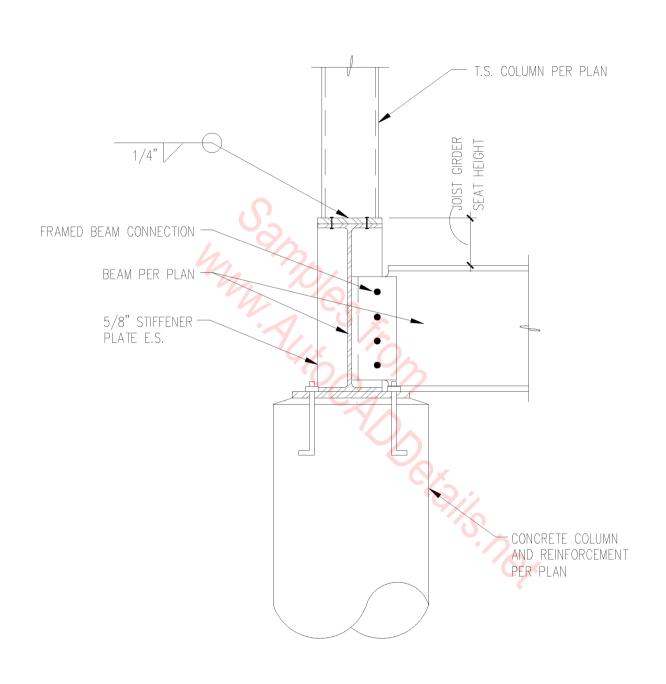






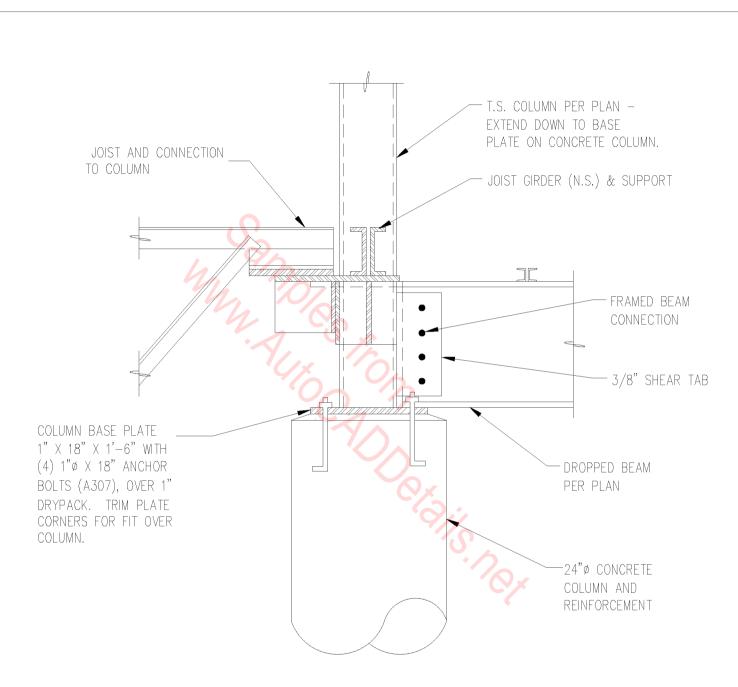






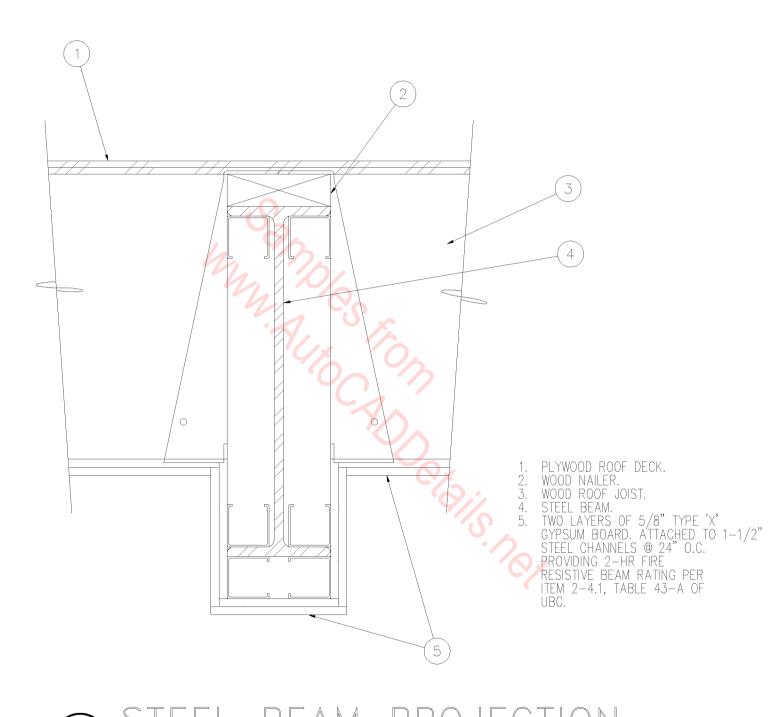
BEAM TO BEAM

SCALE: 3/4" = 1'-0"



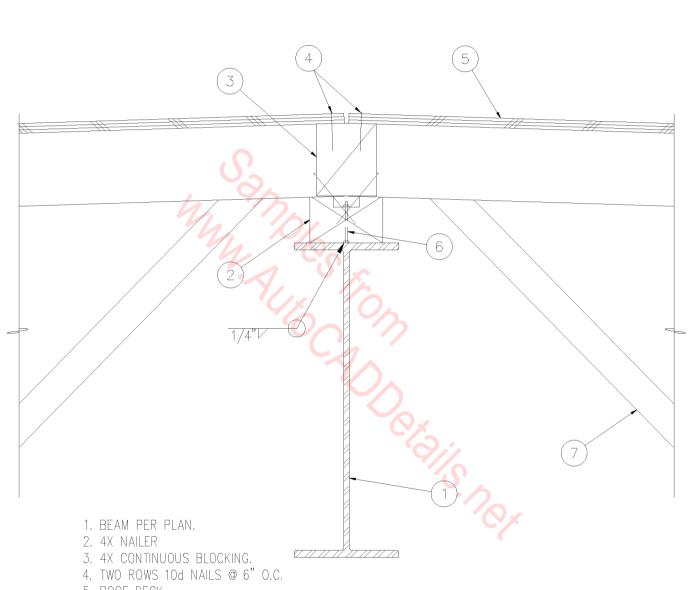
JOIST, GIRDER AND BEAM CONNECTION AT COLUMN

SCALE: 3/4" = 1'-0"



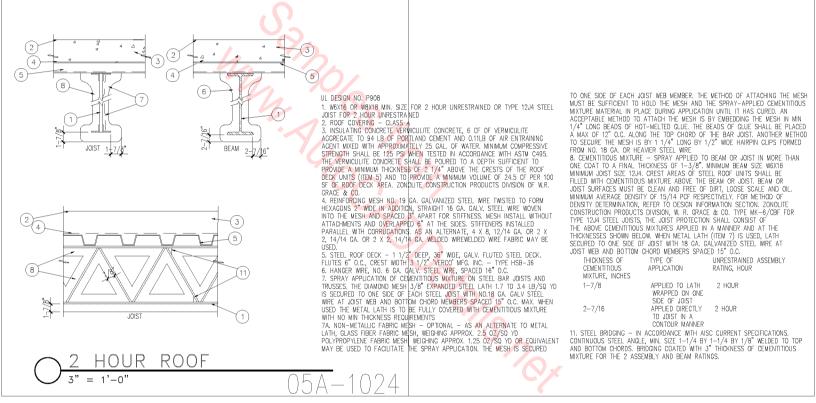
STEEL BEAM PROJECTION

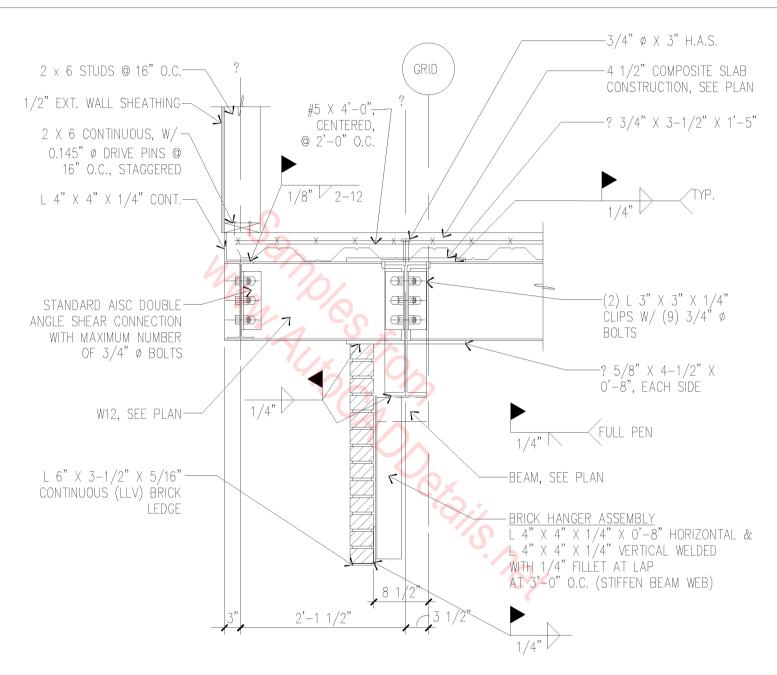
SCALE: 3'' = 1'-0''



- 5. ROOF DECK.
- 6. 5/8" Ø BOLT @ 32" O.C. 7. PREFAB WOOD TRUSS.

SCALE: 1" = 1'-0"

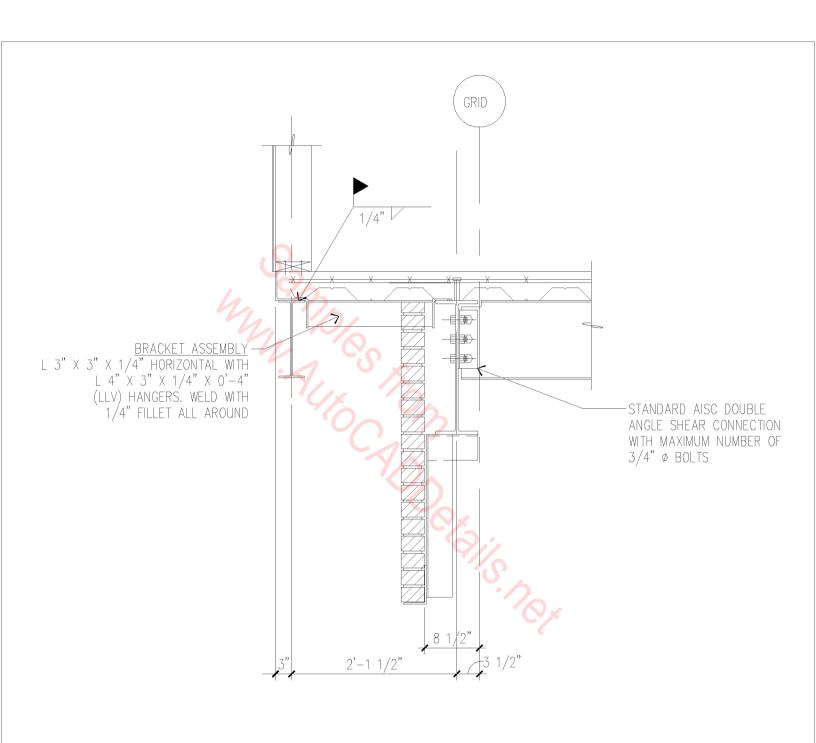




NOTE: AT LOCATIONS WHERE BEAM IS DROPPED, CUT OUT WEB OF W12 TO MAKE MOMENT CONNECTION.

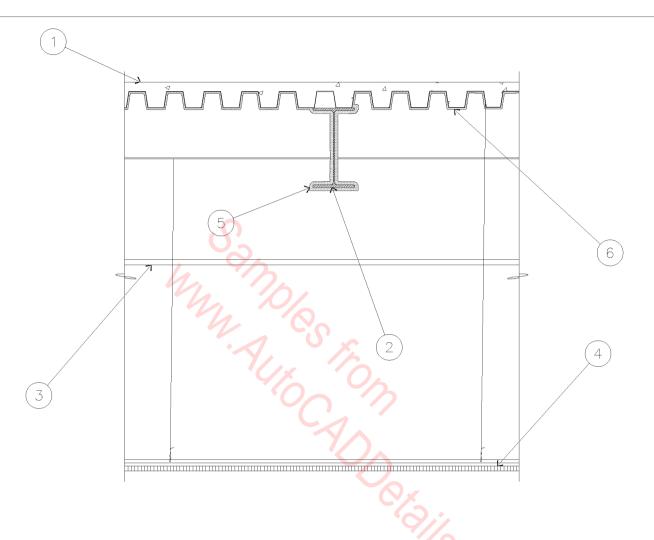
FRAMING SECTION

3/4" = 1'-0"



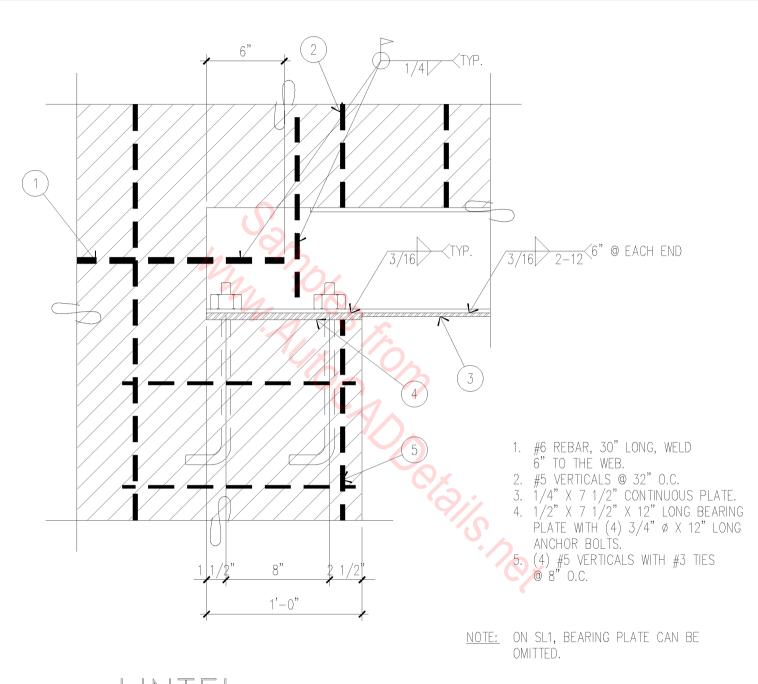
FRAMING SECTION

3/4" = 1'-0"



- 1. CONCRETE FLOOR OVER FLUTED STEEL DECK STEEL DECK SHALL BE WELDED TO STEEL BEAMS.
- 2. WIDE FLANGE BEAM.
- 3. BEAM BEYOND.
- 4. SUSPENDED "TEE" GRID CEILING.
- 5. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/2" THICK (MINIMUM) AT STEEL BEAMS.
 6. SPRAYED ON FIRE RESISTIVE FIBER COAT 1/4" THICK (MINIMUM) AT STEEL DECK.

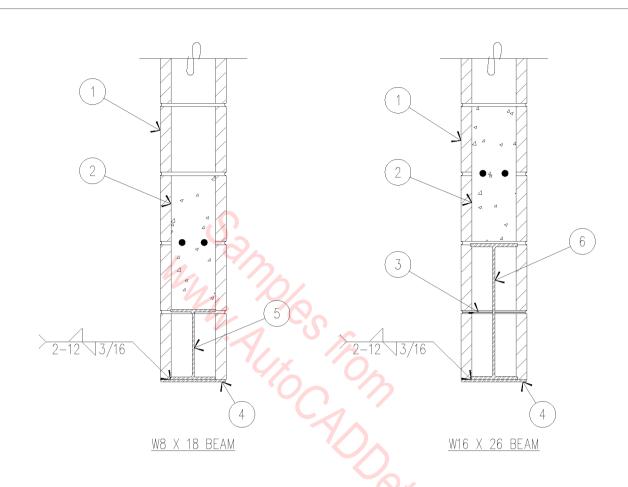
U.L. DESIGN NO. N805



LINTEL BEARING AT JAMB

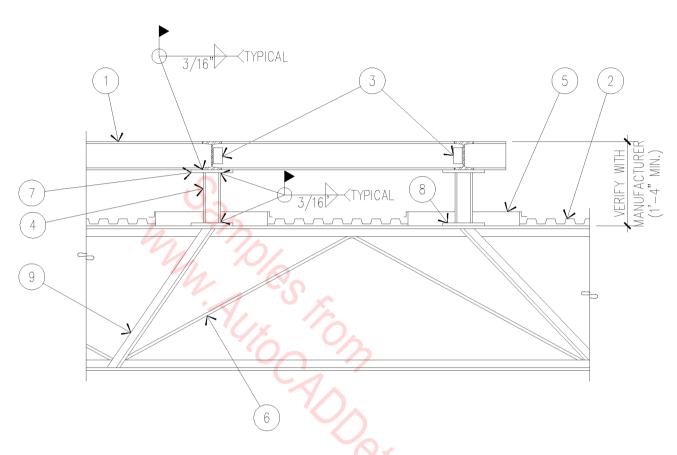
 $1 \ 1/2$ " = 1'-0"

05A-1028



- 8" CMU WALL.
 1'-4" SOLID GROUTED BOND BEAM.
 GALVANIZED 1" X 16 GAUGE VENEER ANCHORS AT 16" O.C. EACH SIDE.
 7-1/2" X 1/4" CONTINUOUS PLATE.
- 5. W8 X 18 WIDE FLANGE BEAM, SEE SCHEDULE ON SHEET S-2.
- 6. W16 X 26 WIDE FLANGE BEAM, SEE SCHEDULE ON SHEET S-2.

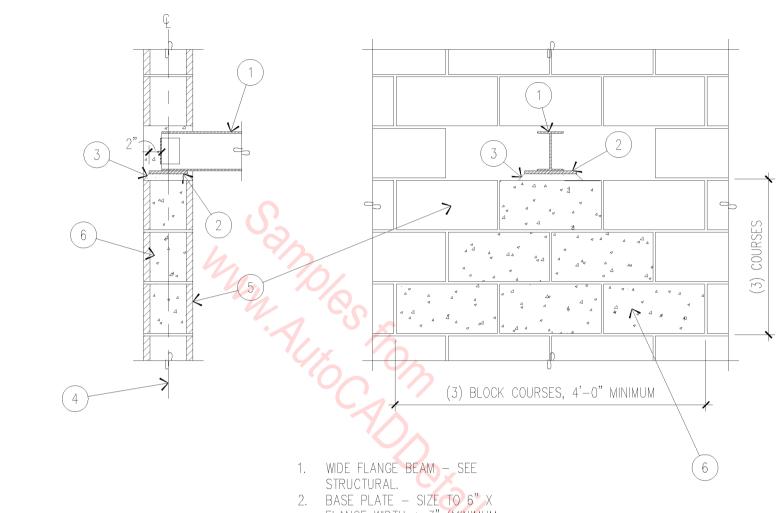
- A. WELD VERTICAL WALL REINFORCEMENT TO STEEL LINTELS.
- B. SHORE LINTEL AT MIDSPAN UNTIL CMU REACHES FULL STRENGTH.
- C. SEE ROOF FRAMING PLAN ON SHEET S-2 FOR LINTEL LOCATIONS.



- W6 X 12 WIDE FLANGE BEAM.
- STEEL ROOF DECKING.
- 3. 2 1/2" X 2 1/2" X 1/4" X 3" LONG STEEL ANGLE.
- 4. 3" Ø GALVANIZED PIPE.
- 5. PITCH PAN.
- 6. STEEL JOIST, SEE STRUCTURAL. 7. 6" X 6" X 1/2" CAP PLATE.
- 4" X 4" X 1/2" PLATE, WELD TO TOP OF JOIST AND TUBE WITH 3/16" FILLET X 2" EACH SIDE.
 ADD ANGLE UNDER POINTS OF SUPPORT IF OTHER THAN PANEL POINTS (TYPICAL)
- POINTS (TYPICAL).

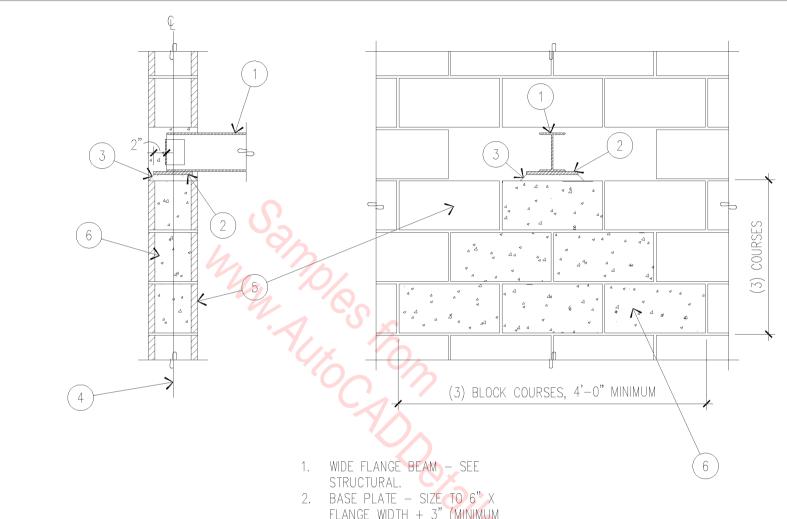
NOTE: SEE ARCHITECTURAL DRAWINGS FOR PLAN LOCATIONS.

NOT TO SCALE



- BASE PLATE SIZE TO 6" X FLANGE WIDTH + 3" (MINIMUM 8") X 1/2", UNLESS NOTED OTHERWISE.
- 3. 1" (MINIMUM) NON-SHRINK GROUT.
 4. CENTER LINE OF WALL AND
- BASE PLATE.
- 5. MASONRY WALL.
- 6. FILL BLOCK SOLID WITH MORTAR AS SHOWN.

= 1'-0"

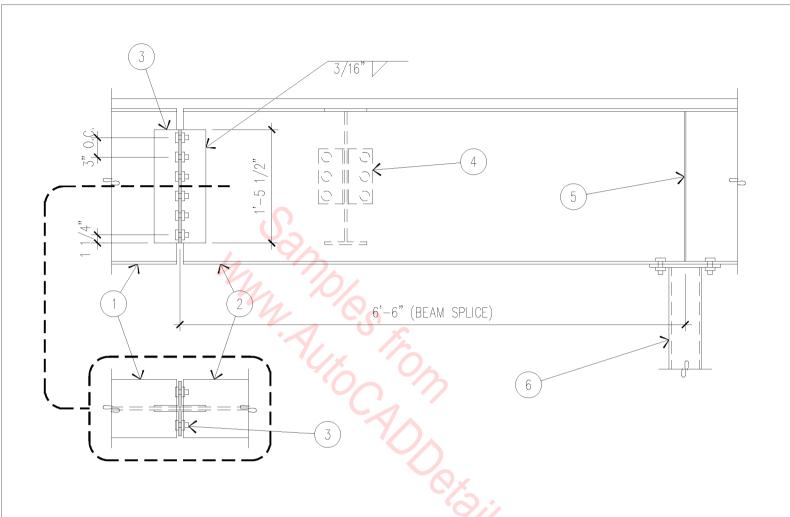


BASE PLATE - SIZE TO 6" X FLANGE WIDTH + 3" (MINIMUM 8") X 1/2", UNLESS NOTED

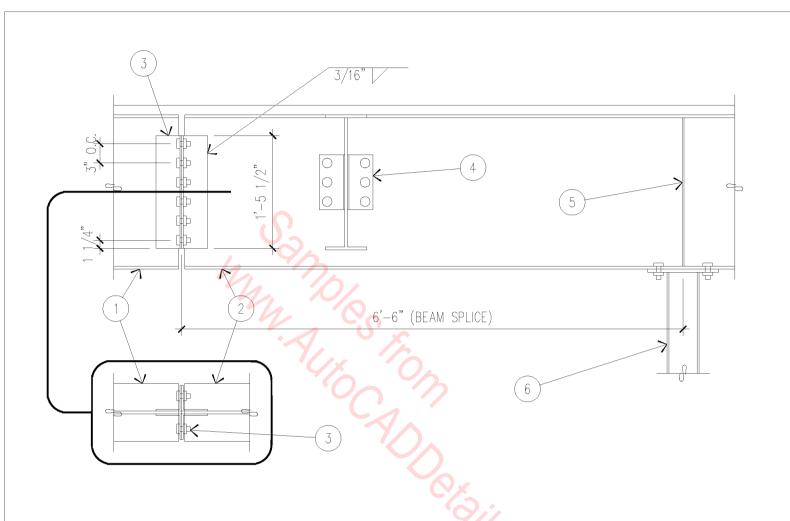
OTHERWISE.

- 3. 1" (MINIMUM) NON-SHRINK GROUT.
- CENTER LINE OF WALL AND BASE PLATE.
- MASONRY WALL.
- 6. FILL BLOCK SOLID WITH MORTAR AS SHOWN.

= 1'-0"



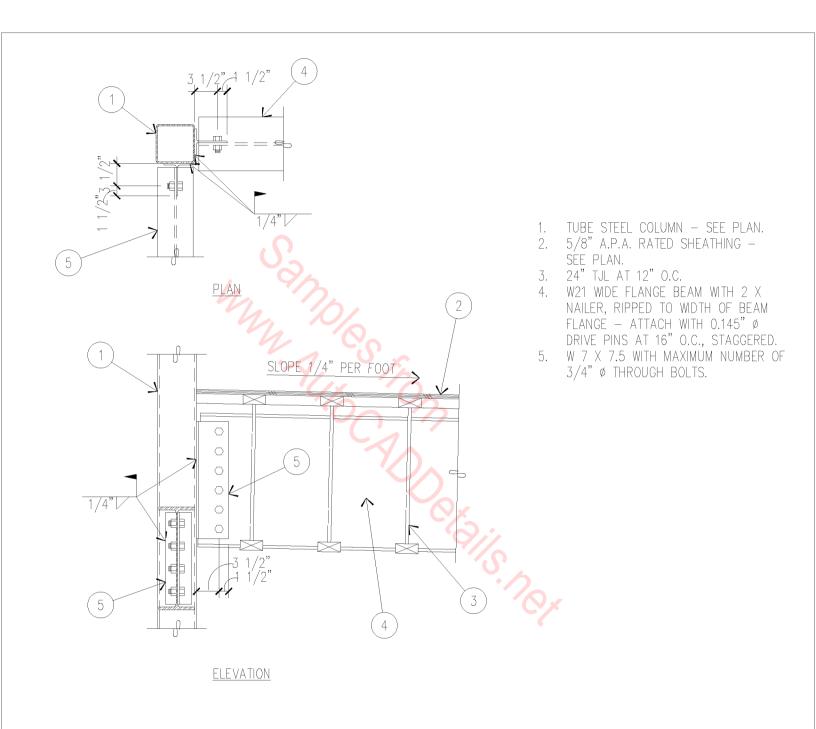
- W 24 X 76 WIDE FLANGE BEAM. 1.
- 2.
- 4.
- W 24 X /6 WIDE FLANGE BEAM.
 W 24 X 68 WIDE FLANGE BEAM.
 (2) JL 4" X 4" X 1/4" X 1'-5 1/2" WITH
 (12) 3/4" Ø THROUGH BOLTS.
 W 21 X 44 AT 8'-0" O.C., BEYOND.
 1/4" FITTED STIFFENER, EACH SIDE
 OF WEB AT C OF COLUMN (TYPICAL).
 TUBE STEEL COLUMN, PER PLAN,
 WITH 5/8" X 9" X 11" CAP PLATE
 AND (4) 3/4" Ø THROUGH BOLTS.



- W 24 X 76 WIDE FLANGE BEAM. 1.
- 2. W 24 X 68 WIDE FLANGE BEAM.
- 2. W 24 X 66 WIDE FLANGE BEAM.
 3. (2) JL 4" X 4" X 1/4" X 1'-5 1/2" WITH (12) 3/4" Ø THROUGH BOLTS.
 4. W 21 X 44 AT 8'-0" O.C., BEYOND.
 5. 1/4" FITTED STIFFENER, EACH SIDE OF WEB AT C OF COLUMN (TYPICAL).

- TUBE STEEL COLUMN, PER PLAN, WITH 5/8" X 9" X 11" CAP PLATE AND (4) 3/4" Ø THROUGH BOLTS.

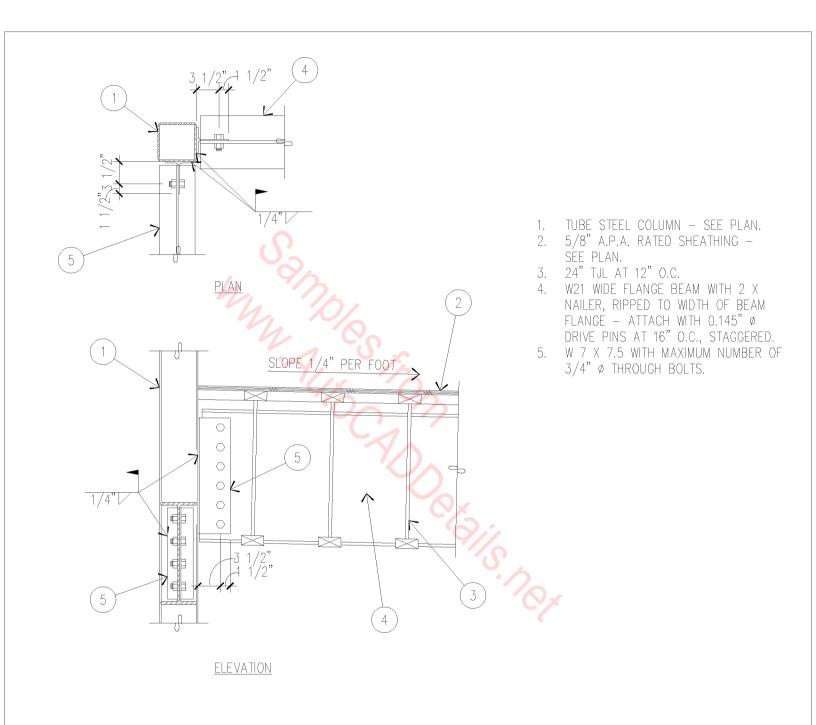
3/4" = 1'-0"



JOIST TO COLUMN

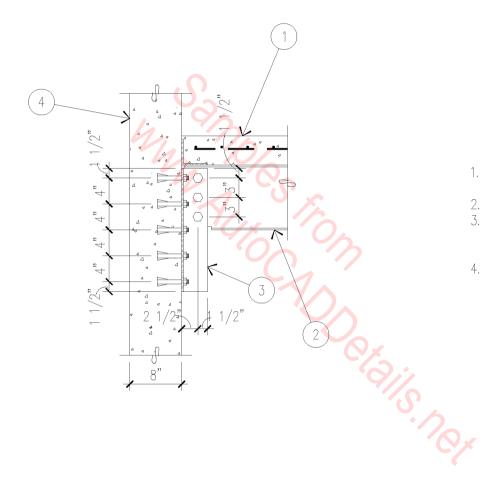
3/4" = 1'-0"

 $\overline{05}$ A-1033



JOIST TO COLUMN

3/4" = 1'-0"

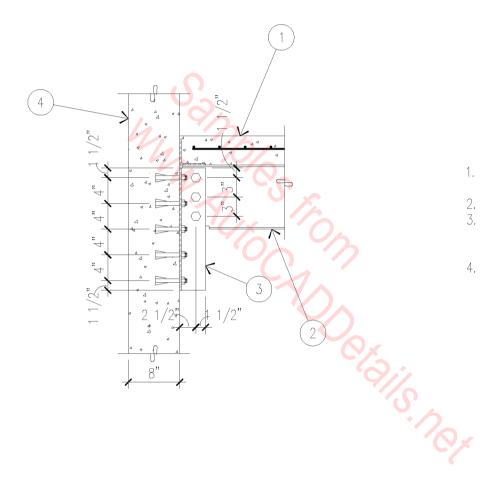


- 2 1/2" CONCRETE SLAB OVER 2" METAL DECKING.
- WIDE FLANGE BEAM.
- (2) L 4" X 4" X 1'-7" X 1/4" WITH
 (3) 5/8" Ø THROUGH BOLTS AND
 (10) 5/8" Ø EXPANSION BOLTS.
 8" PRECAST CONCRETE WALL.

BEARING

3/4" = 1'-0"

 $\frac{1}{0.5}$ A-10.34



- 2 1/2" CONCRETE SLAB OVER 2" METAL DECKING.
- WIDE FLANGE BEAM.

 (2) L 4" X 4" X 1'-7" X 1/4" WITH

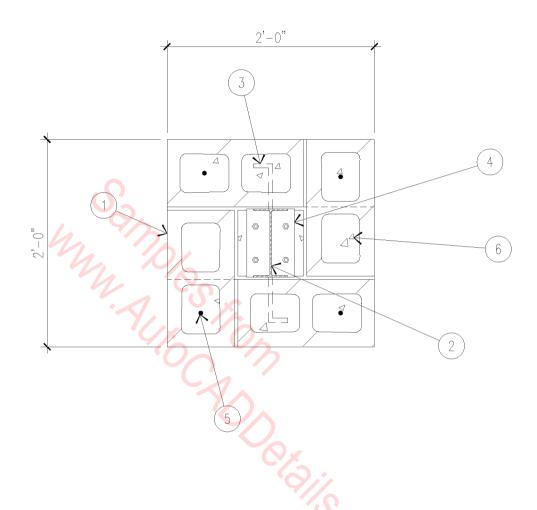
 (3) 5/8" Ø THROUGH BOLTS AND

 (10) 5/8" Ø EXPANSION BOLTS.

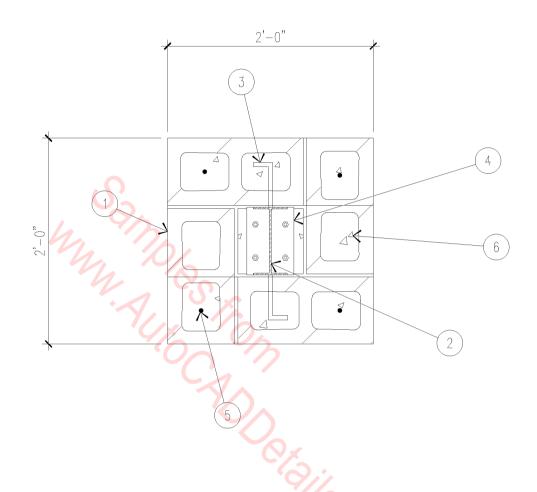
 8" PRECAST CONCRETE WALL.

BEARING

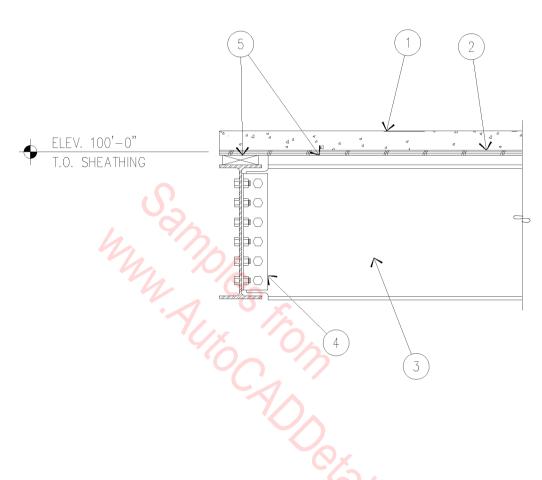
= 1'-0"



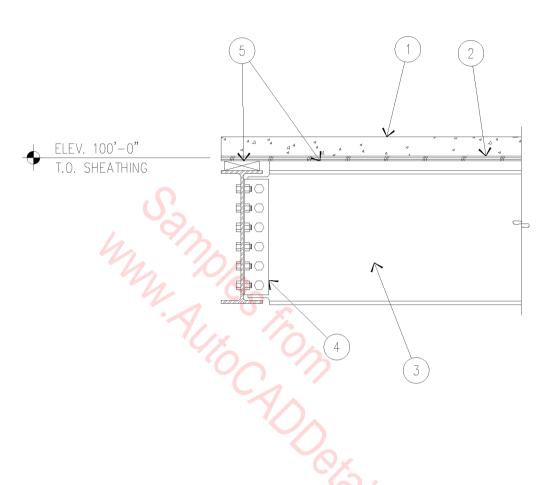
- 1. 8 X 8 X 16 MASONRY.
 2. W8 X 10 WDE FLANGE COLUMN.
 3. 5" X 2" #4 REBAR COLUMN ANCHORS
 @ 32" O.C.
 4. 3/8" STEEL COLUMN BASE PLATE.
- 5. #4 REBAR VERTICAL AT CORNERS.6. SOLID GROUTED CELLS.



- 1. 8 X 8 X 16 MASONRY.
- 2. W8 X 10 WDE FLANGE COLUMN.
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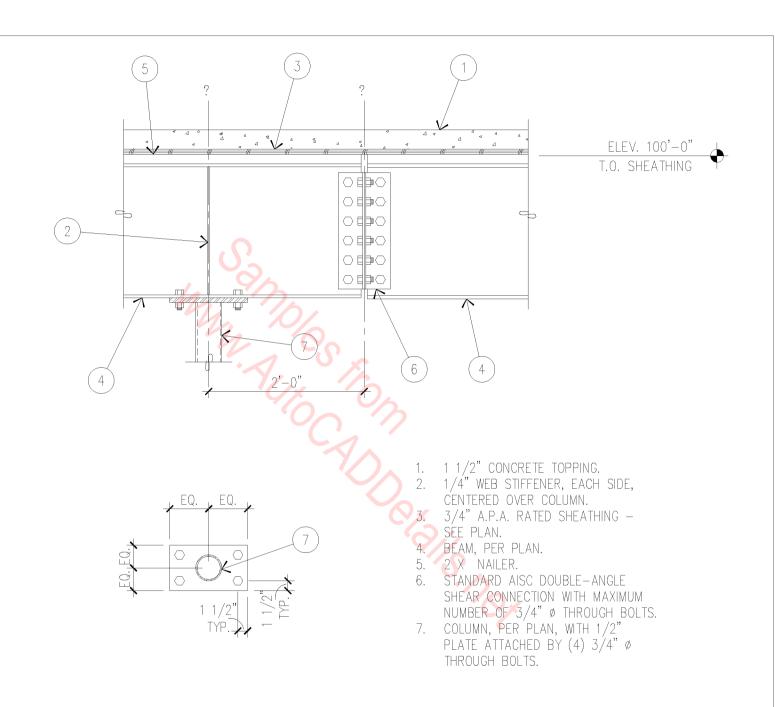


- 1 1/2" CONCRETE TOPPING.
 3/4" A.P.A. RATED SHEATHING SÉE PLAN.
- 3. BEAM, PER PLAN.
- STANDARD AISC DOUBLE-ANGLE SHEAR CONNECTION WITH MAXIMUM NUMBER OF 3/4" Ø THROUGH BOLTS.
- 5. 2 X NAILER.

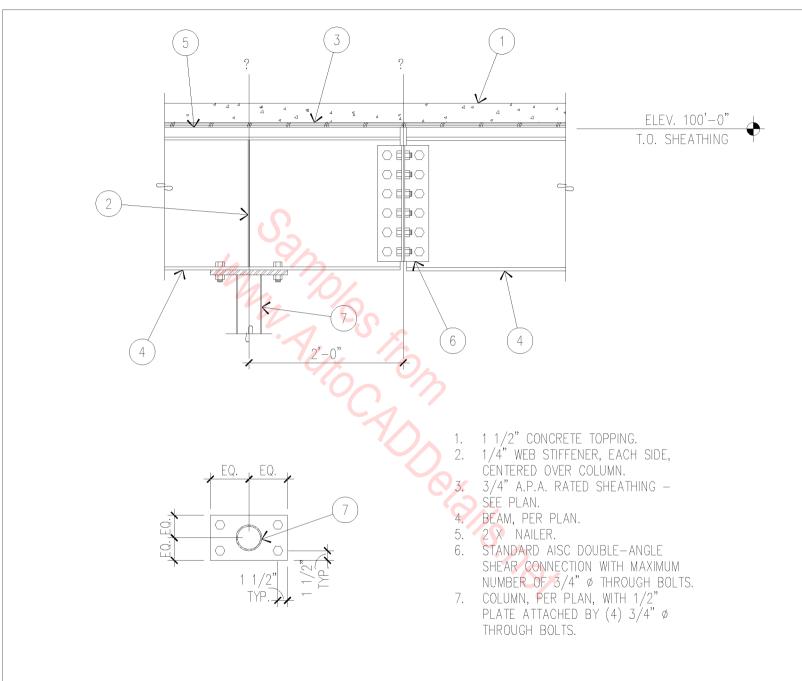


- 1. 1 1/2" CONCRETE TOPPING. 2. 3/4" A.P.A. RATED SHEATHING SEE PLAN.
- BEAM, PER PLAN.
- STANDARD AISC DOUBLE-ANGLE SHEAR CONNECTION WITH MAXIMUM NUMBER OF 3/4" Ø THROUGH BOLTS.
- 5. 2 X NAILER.

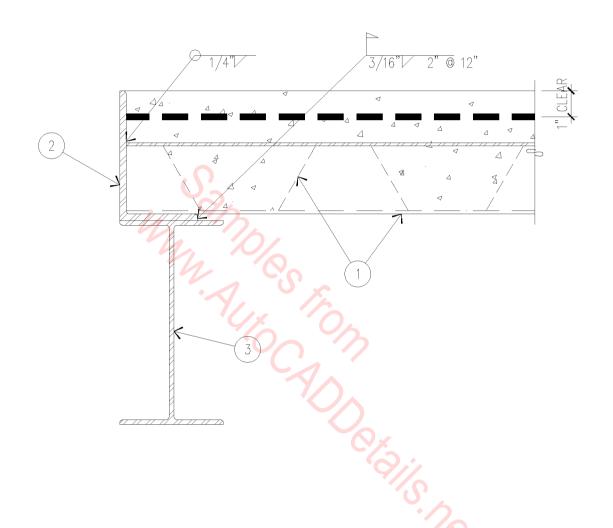
3/4" = 1'-0"



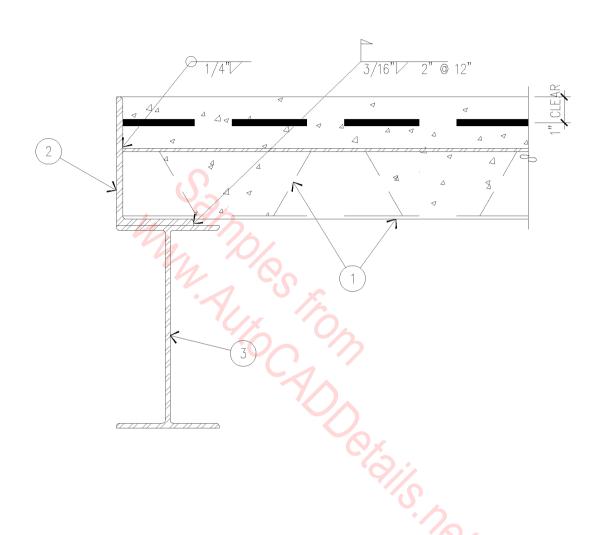
BEAM TO BEAM AT COLUMN



3/4" = 1'-0"

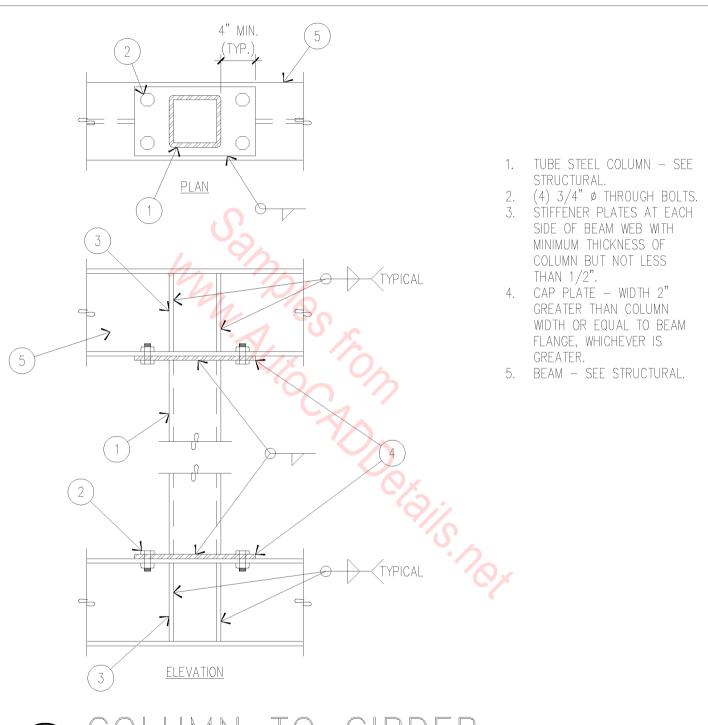


- TYPICAL EDGE BENT PLATE OR
 L 3" X 5" X 1/4" (LLV), CONTINUOUS,
 WITH #4 X 1'-6" AT 24" O.C.
 BEAM PER STRUCTURAL.

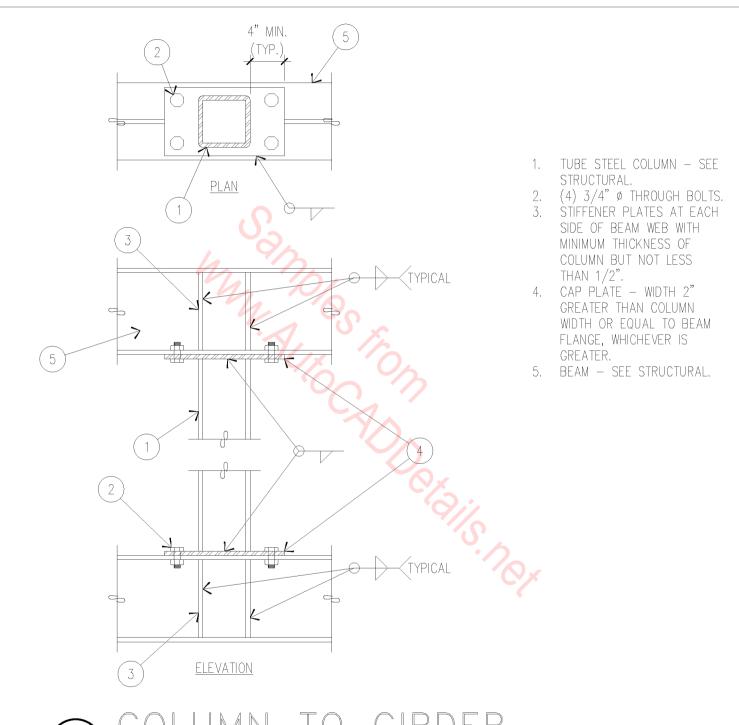


- TYPICAL EDGE BENT PLATE OR
 L 3" X 5" X 1/4" (LLV), CONTINUOUS,
 WITH #4 X 1'-6" AT 24" O.C.
 BEAM PER STRUCTURAL.

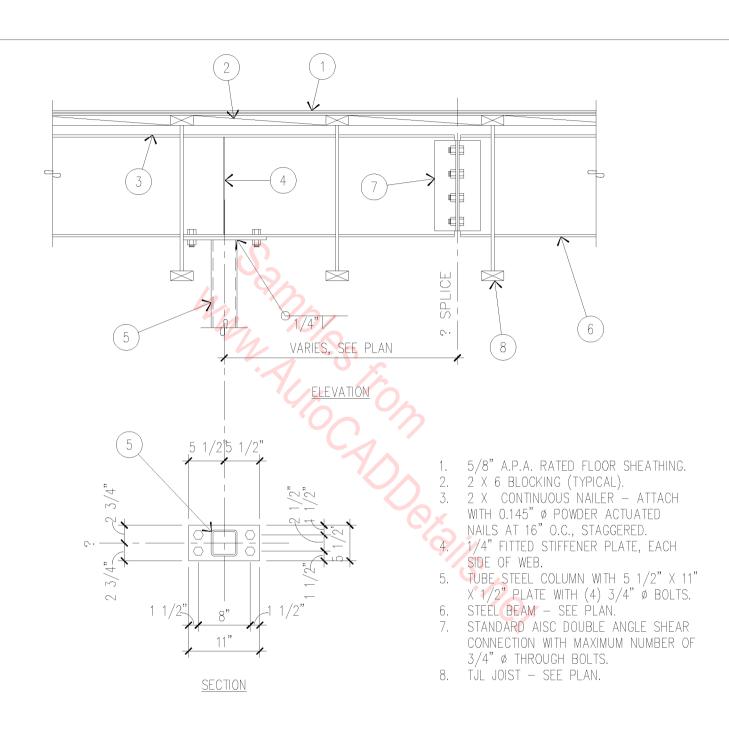
= 1'-0"



1" = 1'-0"



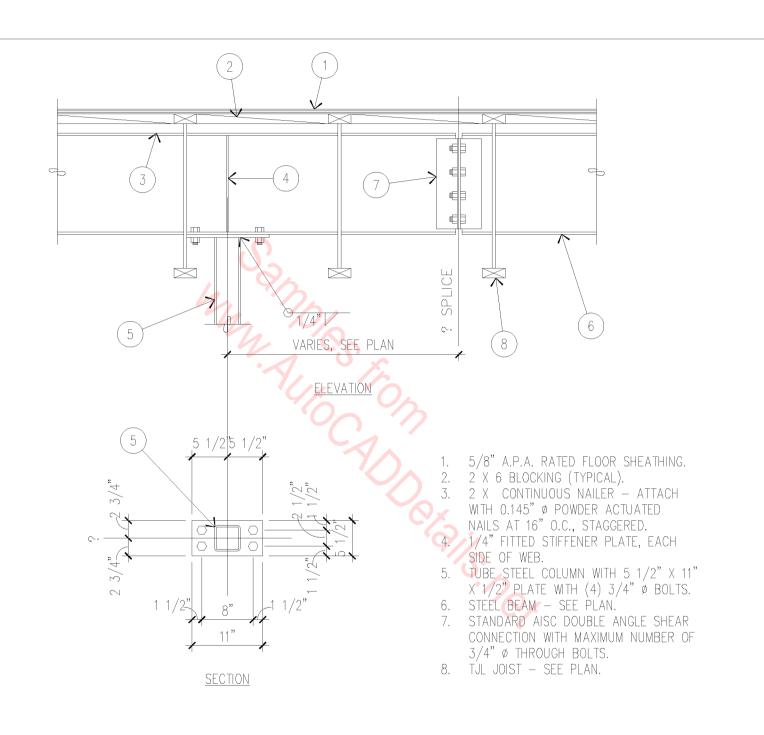
1'-0"



FRAMING SECTION

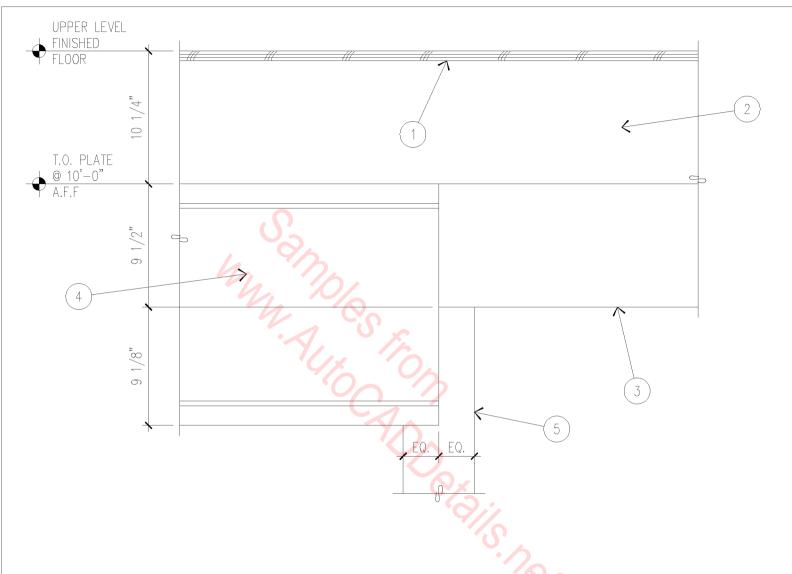
3/4" = 1'-0"

 $\overline{05}$ A-1040



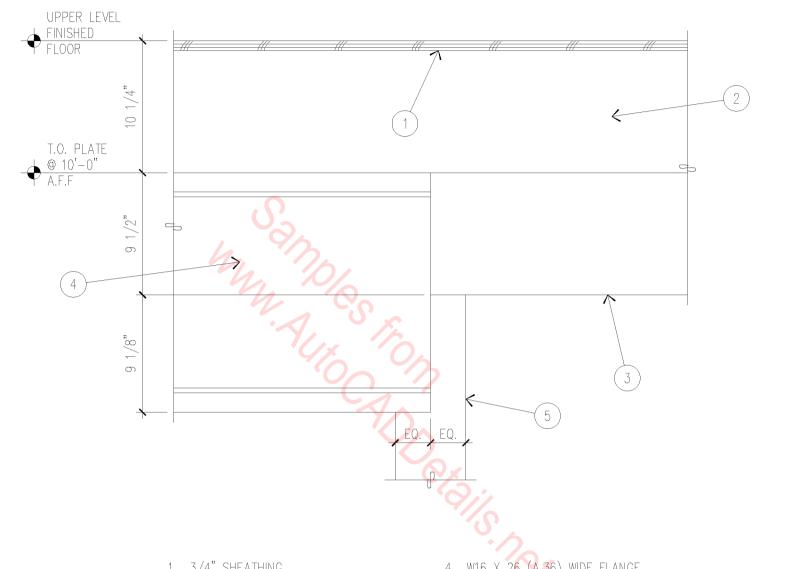
FRAMING SECTION

3/4" = 1'-0"



- 3/4" SHEATHING.
 2 X 10 RIM JOIST(S) SEE FLOOR FRAMING PLAN.
- 3. (4) 2 X 10 BEAM.

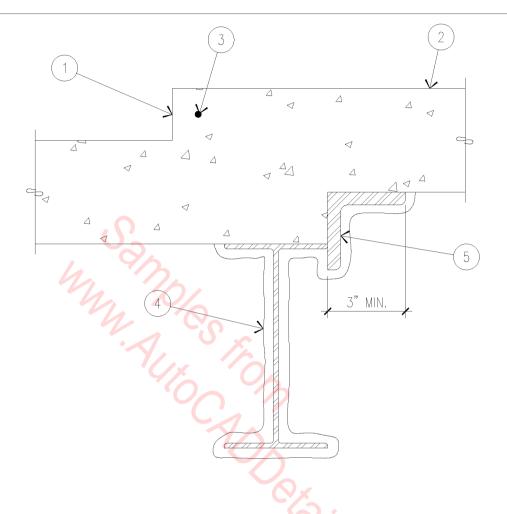
- 4. W16 X 26 (A.36) WIDE FLANGE
 BEAM WITH (1) 2 X 8 NAILER,
 TOP AND BOTTOM.
 5. (4) 2 X 6's NOTCHED TO SUPPORT
- BÓTH BEAMS.



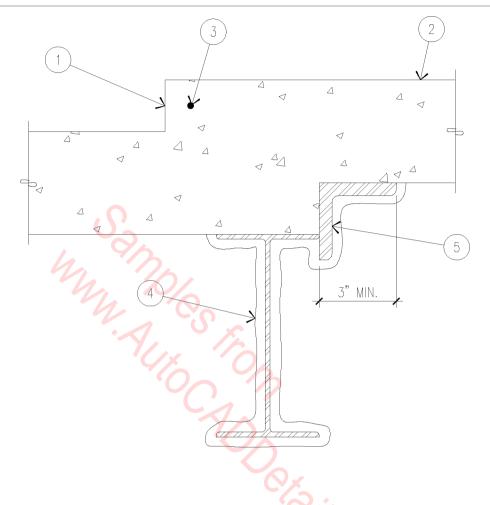
- 1. 3/4" SHEATHING.
- 2. 2 X 10 RIM JOIST(S) SEE FLOOR FRAMING PLAN.
- 3. (4) 2 X 10 BEAM.

- 4. W16 X 26 (A.36) WIDE FLANGE BEAM WITH (1) 2 X 8 NAILER, TOP AND BOTTOM.
- 5. (4) 2 X 6's NOTCHED TO SUPPORT BÓTH BEAMS.

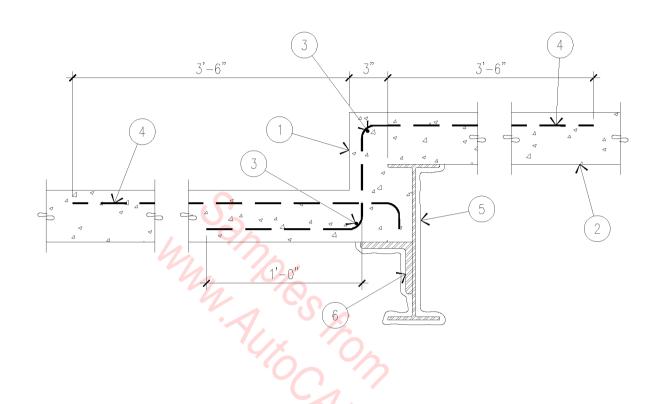




- 1. DEPRESSION SEE PLAN,
- 2. SLAB ON METAL DECK FOR THICKNESS, SEE PLAN.
- 3. (1) #4 REBAR, CONTINUOUS.
- 4. SPRÄYED ON FIREPROOFING.
- 5. ANGLE WELDED TO BEAM SIZE TO FIT DEPRESSION (1/2" THICK, MINIMUM).



- 1. DEPRESSION SEE PLAN.
- 2. SLAB ON METAL DECK FOR THICKNESS, SEE PLAN.
- 3. (1) #4 REBAR, CONTINUOUS.
- 4. SPRÄYED ON FIREPROOFING.
- 5. ANGLE WELDED TO BEAM SIZE TO FIT DEPRESSION (1/2" THICK, MINIMUM).



- DEPRESSION SEE PLAN. 1.
- SLAB ON METAL DECK FOR 2.

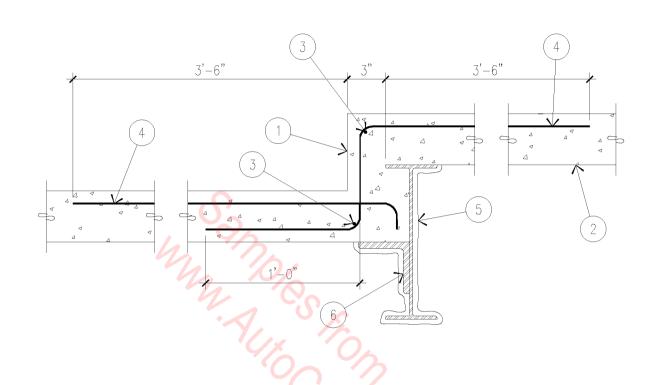
- THICKNESS, SEE PLAN.

 (1) #4 REBAR, CONTINUOUS.

 #4 REBAR AT 12" O.C., MINIMUM.

 SPRAYED ON FIREPROOFING.

 L 4" X 4" X 1/2", CONTINUOUS, WELDED TO BEAM.



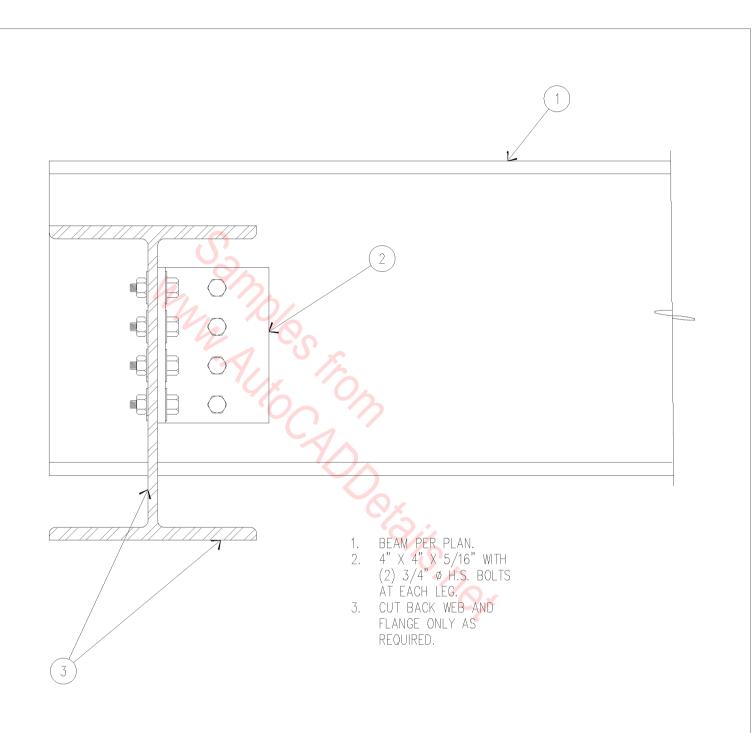
- DEPRESSION SEE PLAN. 1.
- SLAB ON METAL DECK FOR 2.
- 3.
- 5.
- THICKNESS, SEE PLAN.

 (1) #4 REBAR, CONTINUOUS.

 #4 REBAR AT 12" O.C., MINIMUM.

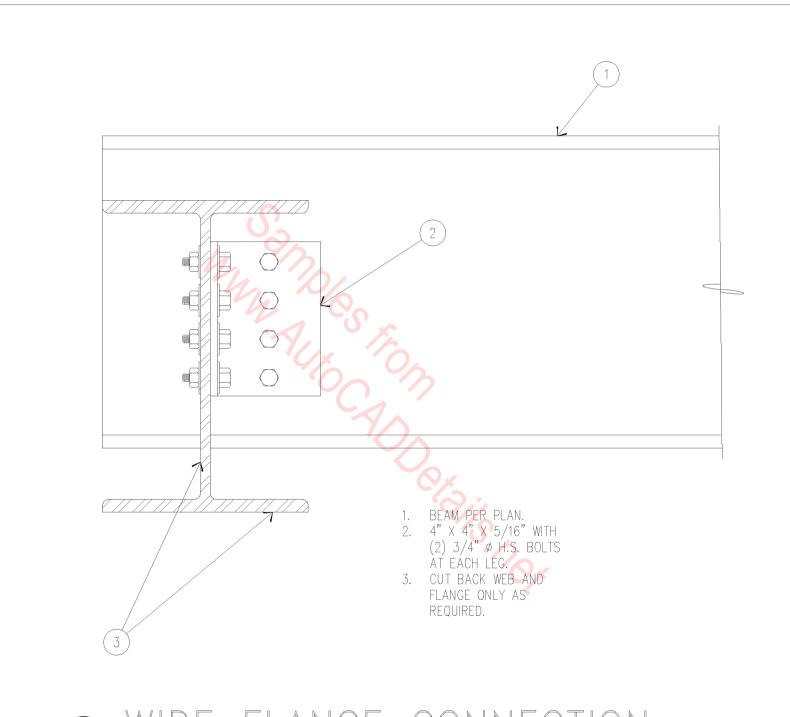
 SPRAYED ON FIREPROOFING.

 L 4" X 4" X 1/2", CONTINUOUS, WELDED TO BEAM.



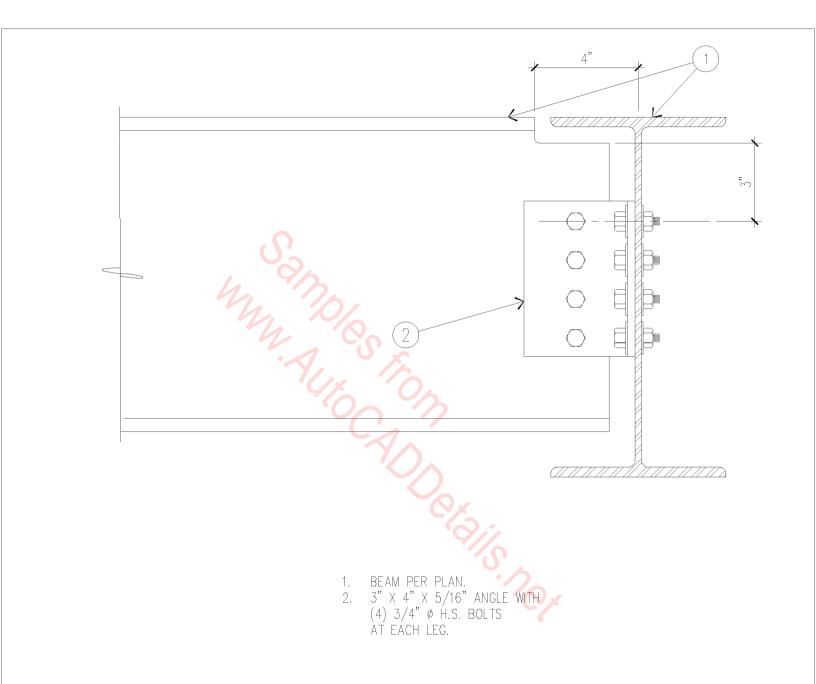
WIDE FLANGE CONNECTION

3" = 1'-0"



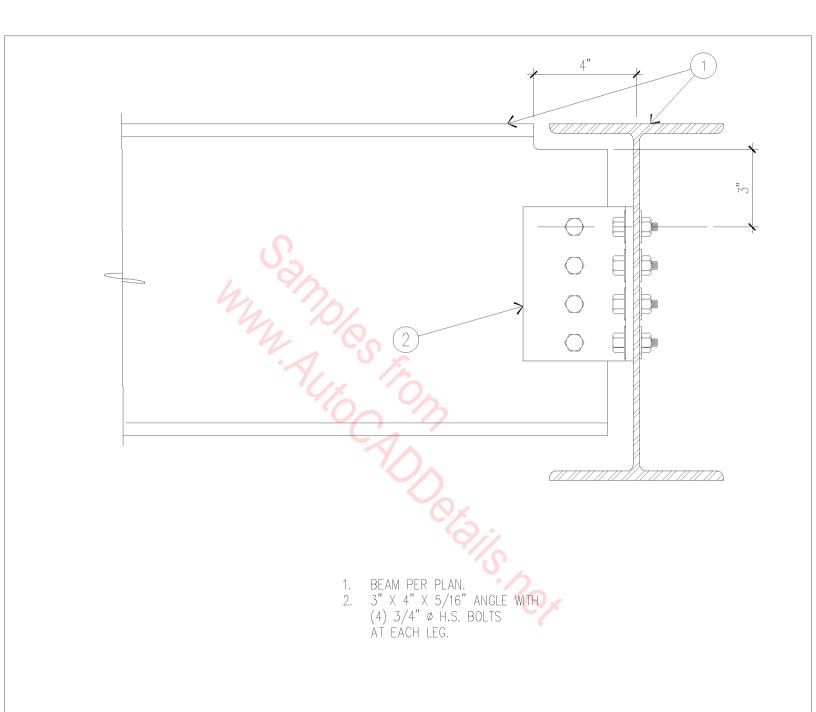
WIDE FLANGE CONNECTION

3'' = 1'-0''



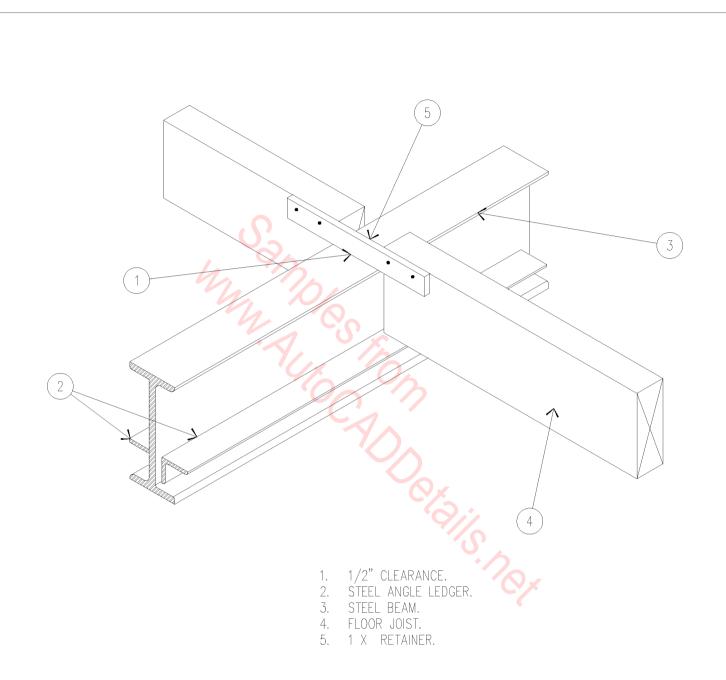
VIDE FLANGE CONNECTION

3" = 1'-0"

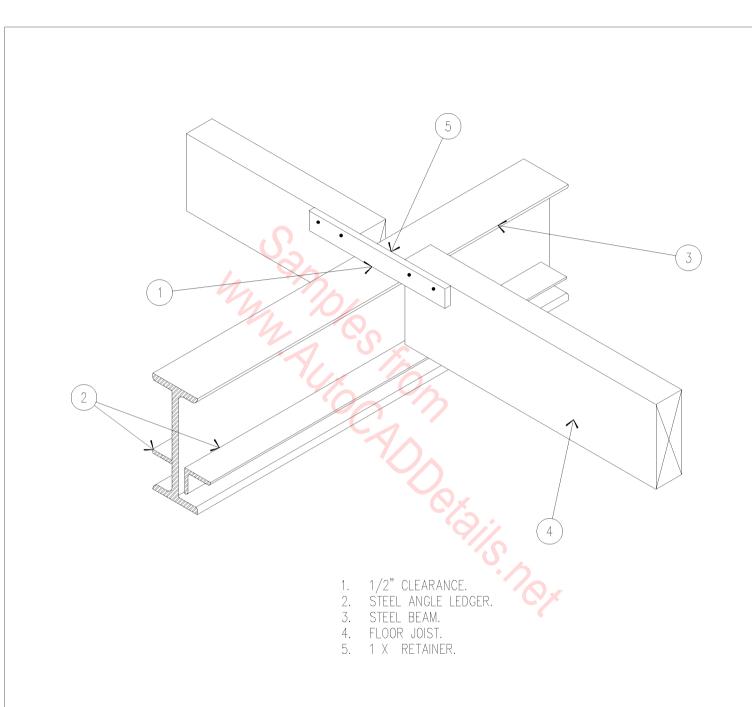


WIDE FLANGE CONNECTION

3" = 1'-0"



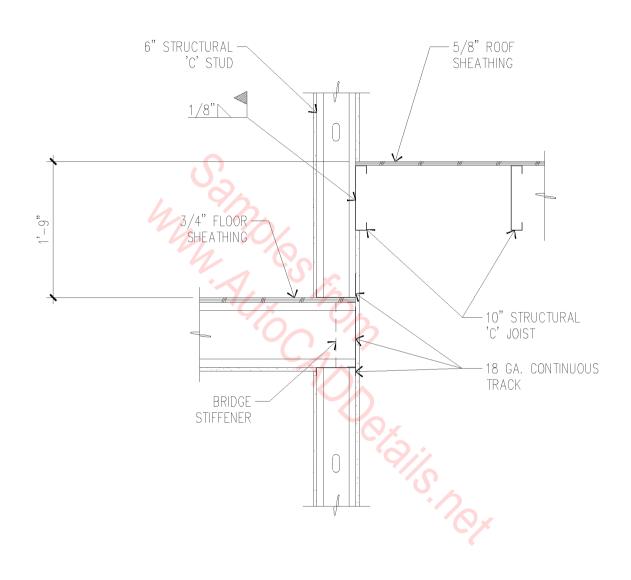
JOIST AT BEAM 1 1/2" = 1'-0"



JOIST AT BEAM

 $1 \ 1/2$ " = 1'-0"

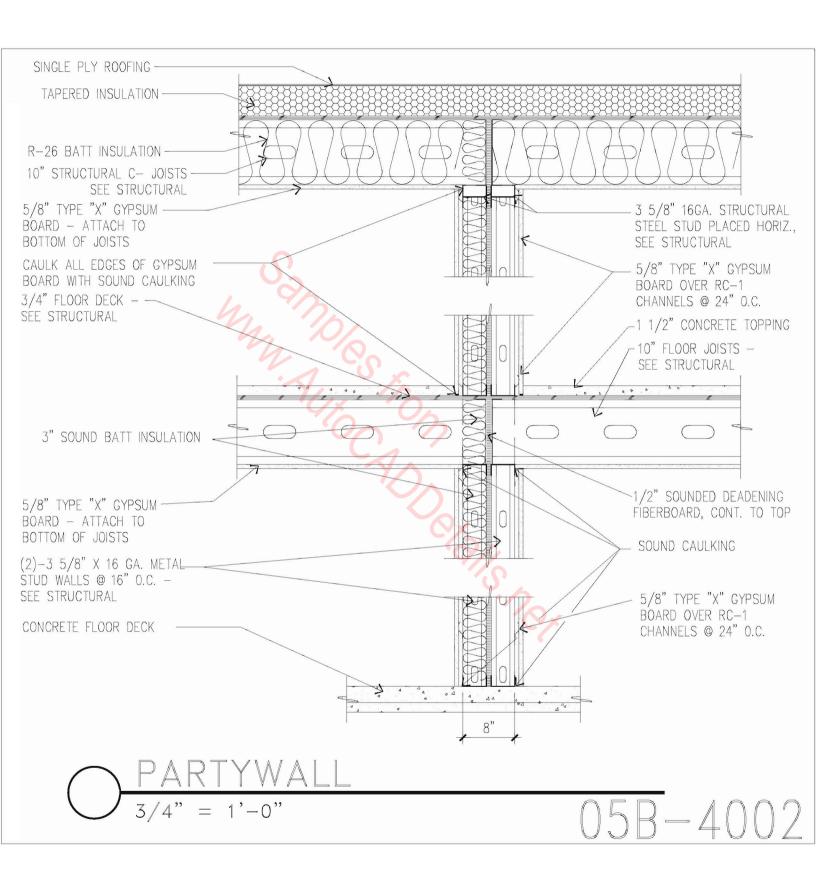
05A - 1046

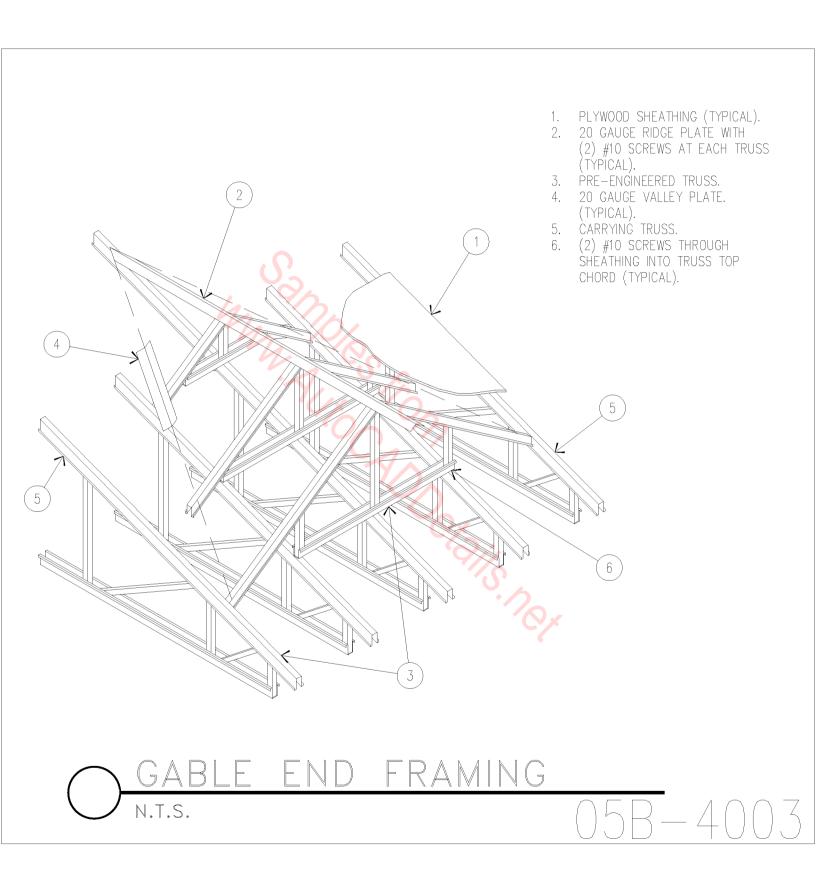


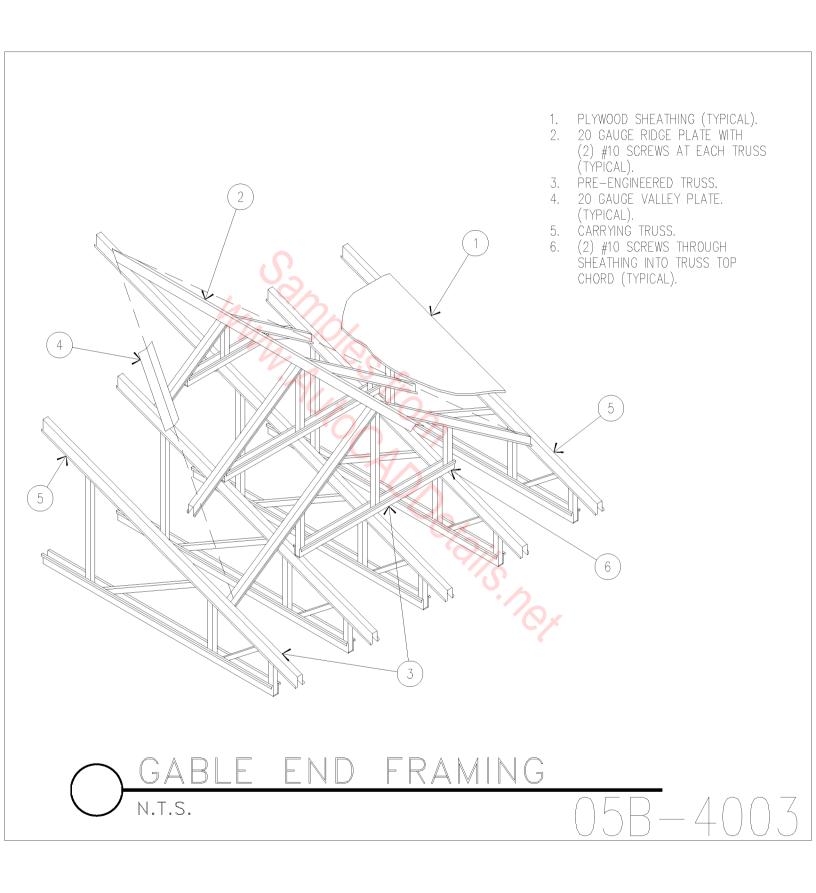
FRAMING SECTION

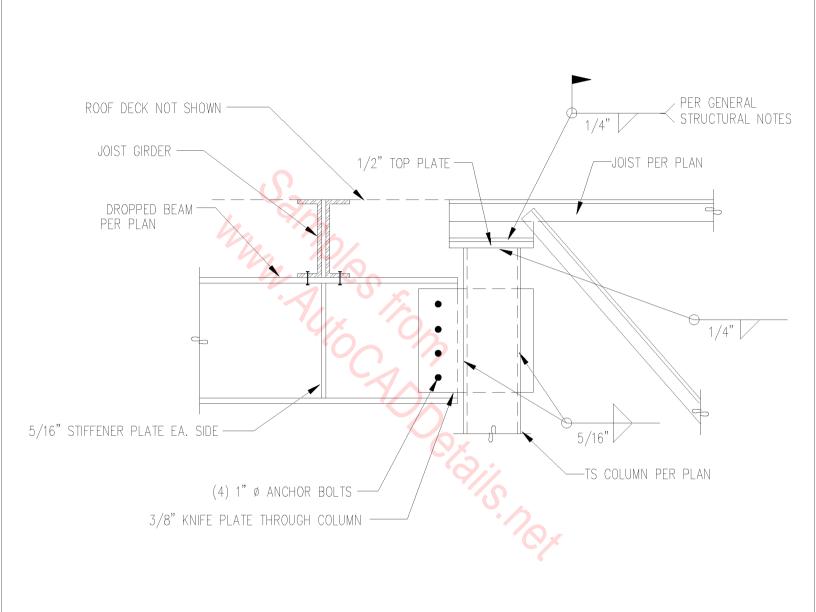
3/4" = 1'-0"

 $\overline{05B} - 4001$

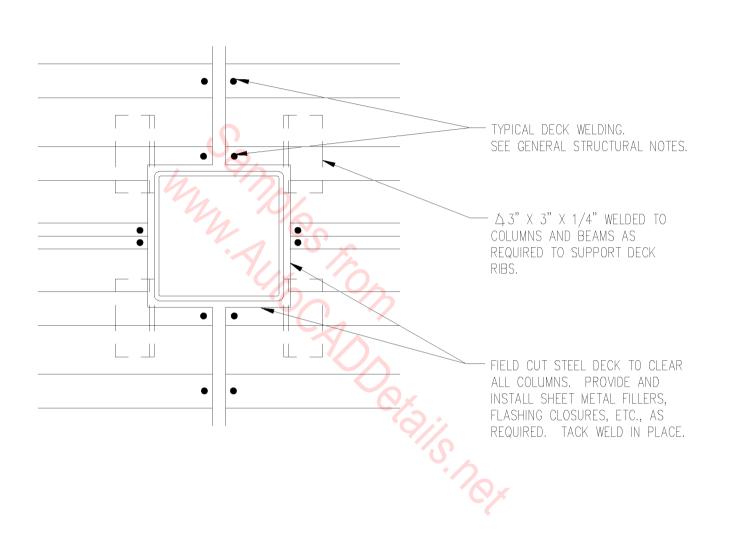




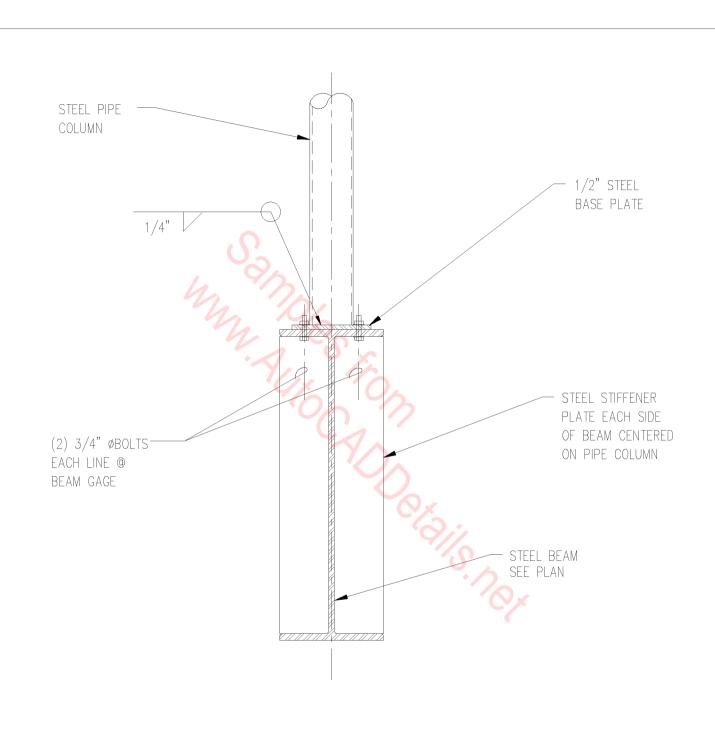








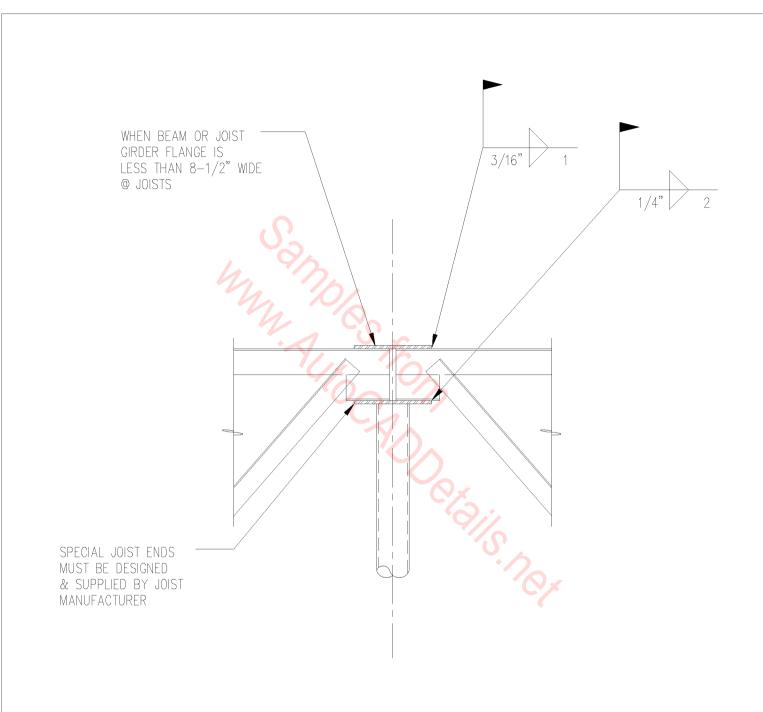
DECK AT T.S. COL SCALE: 3/4" = 1'-0"



COLUMN TO BEAM

SCALE: 3/4" = 1'-0"

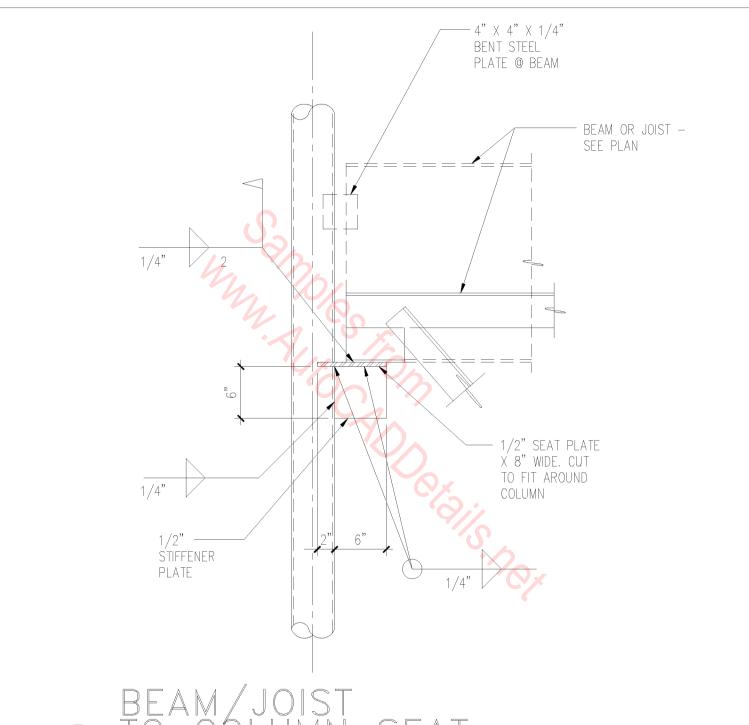
 $\overline{05B} - 1003$



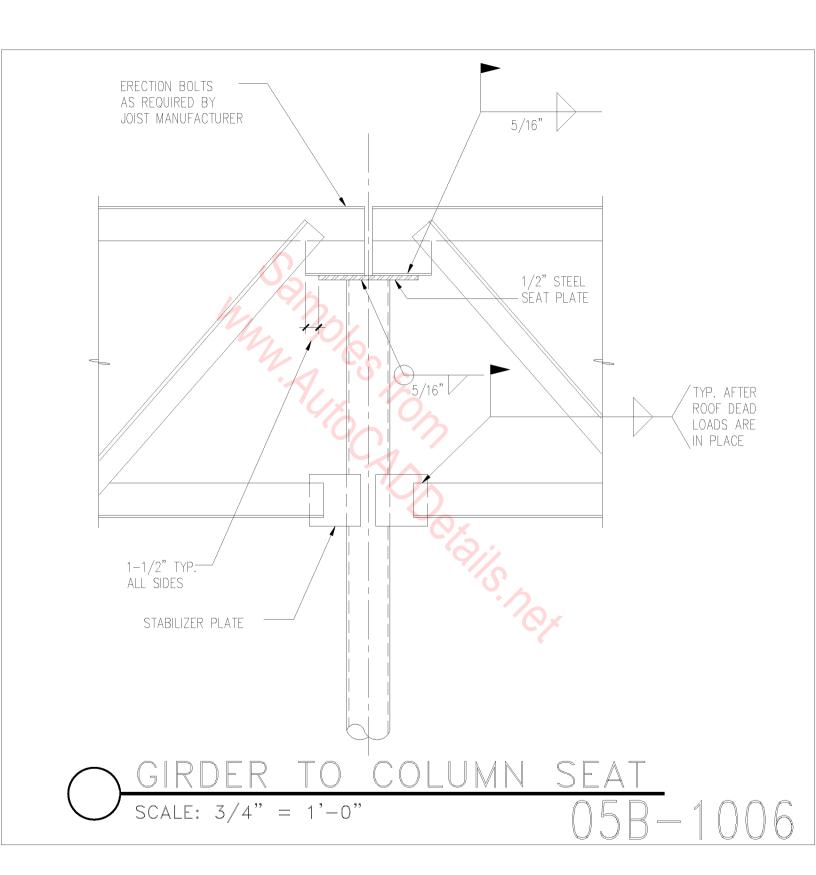
GIRDER TO COLUMN

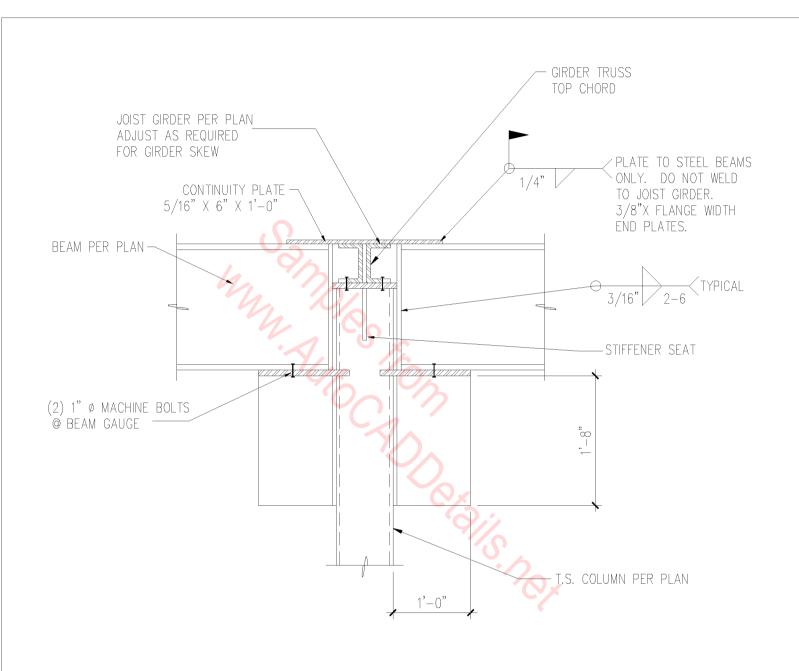
SCALE: 3/4" = 1'-0"

05B - 1004



SCALE: 3/4" = 1'-0"

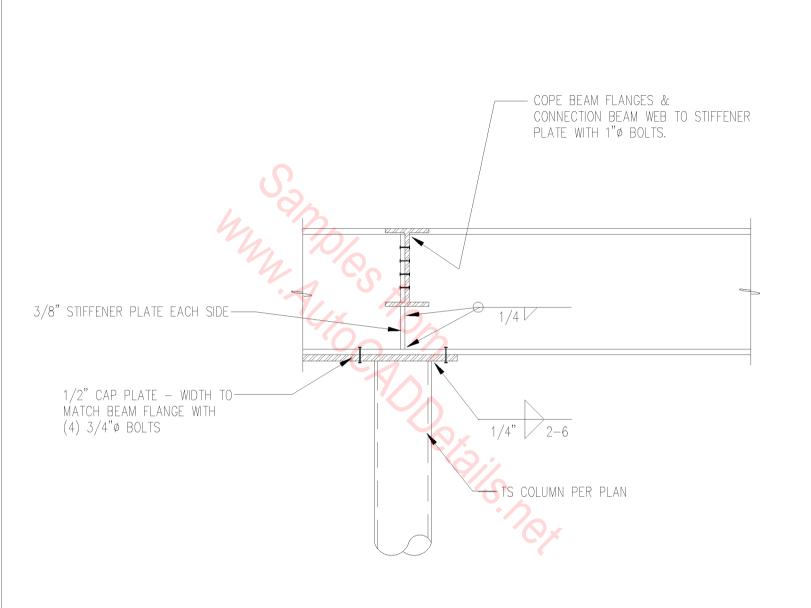




BEAMS & GIRDER @ COLUMN SEAT

SCALE: 3/4" = 1'-0"

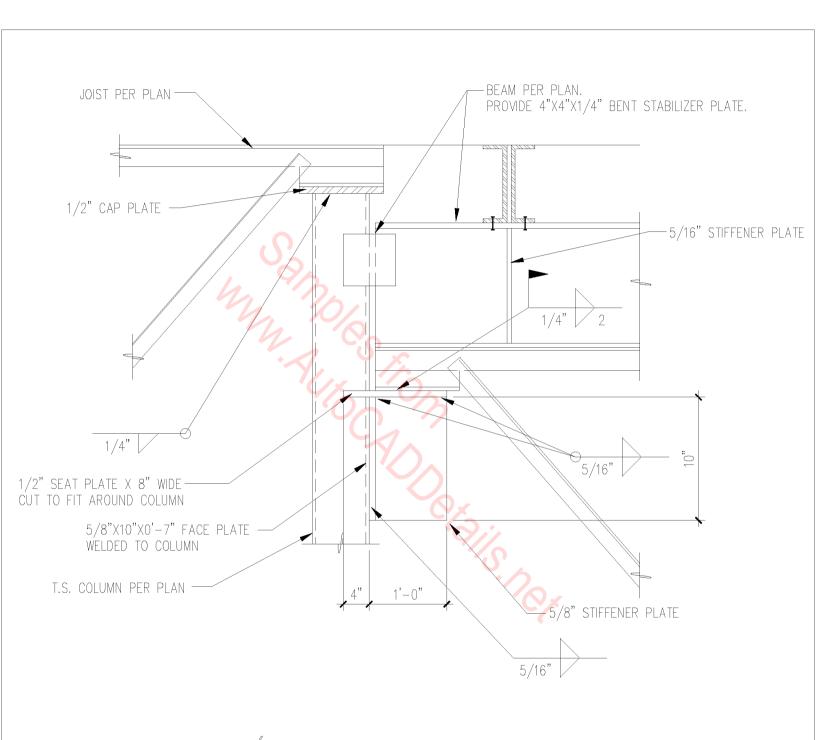
05B - 1007





SCALE: 3/4" = 1'-0"

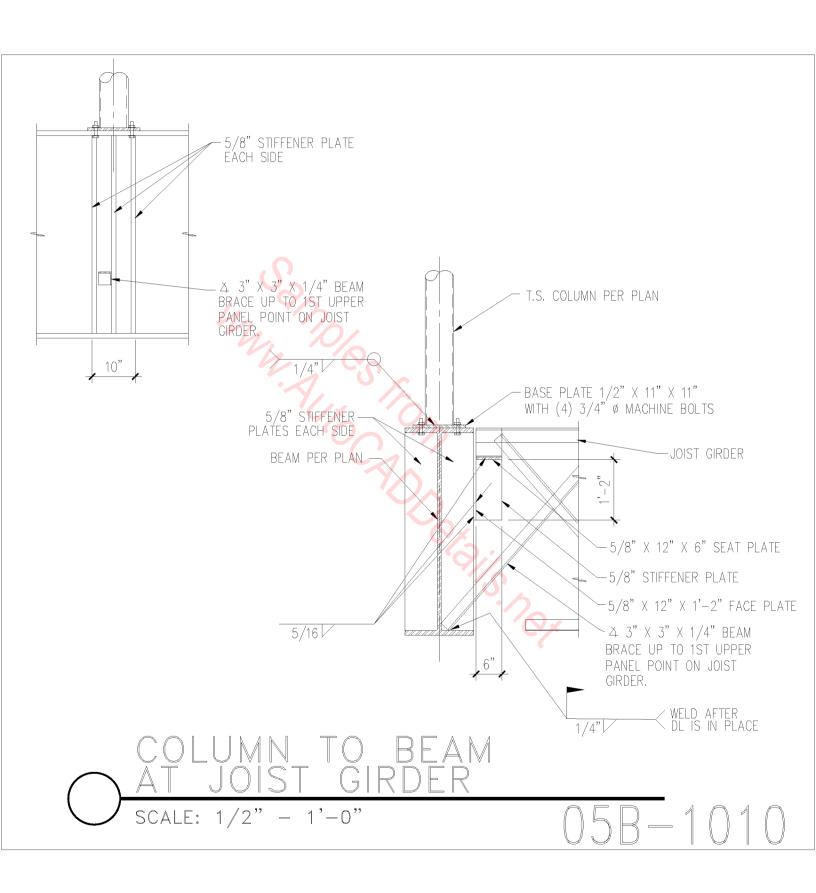
05B-1008

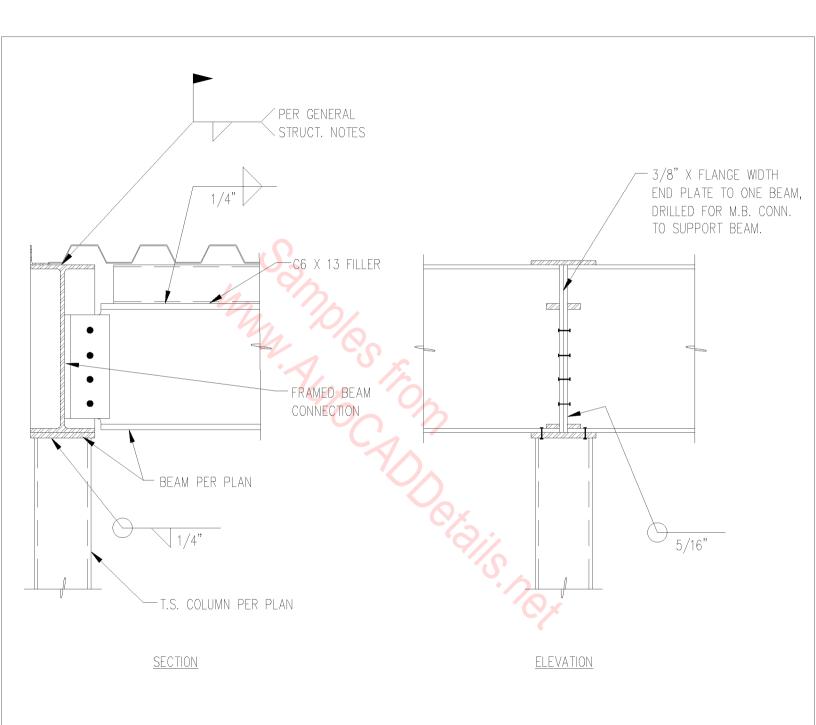


BEAM/JOIST TO COLUMN

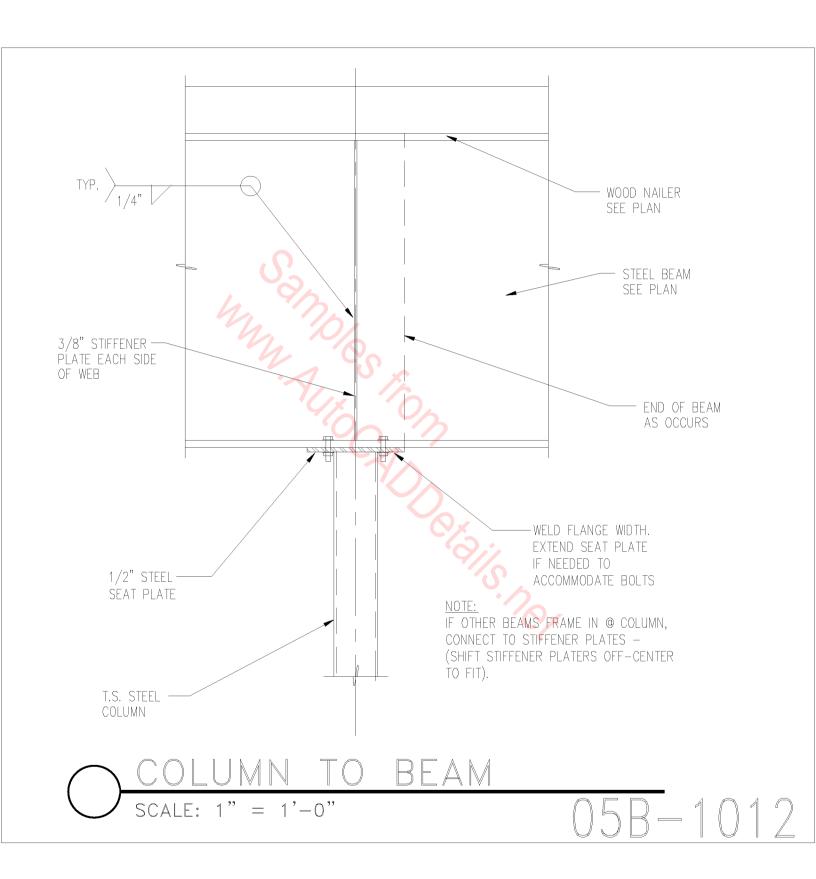
SCALE: 3/4" = 1'-0"

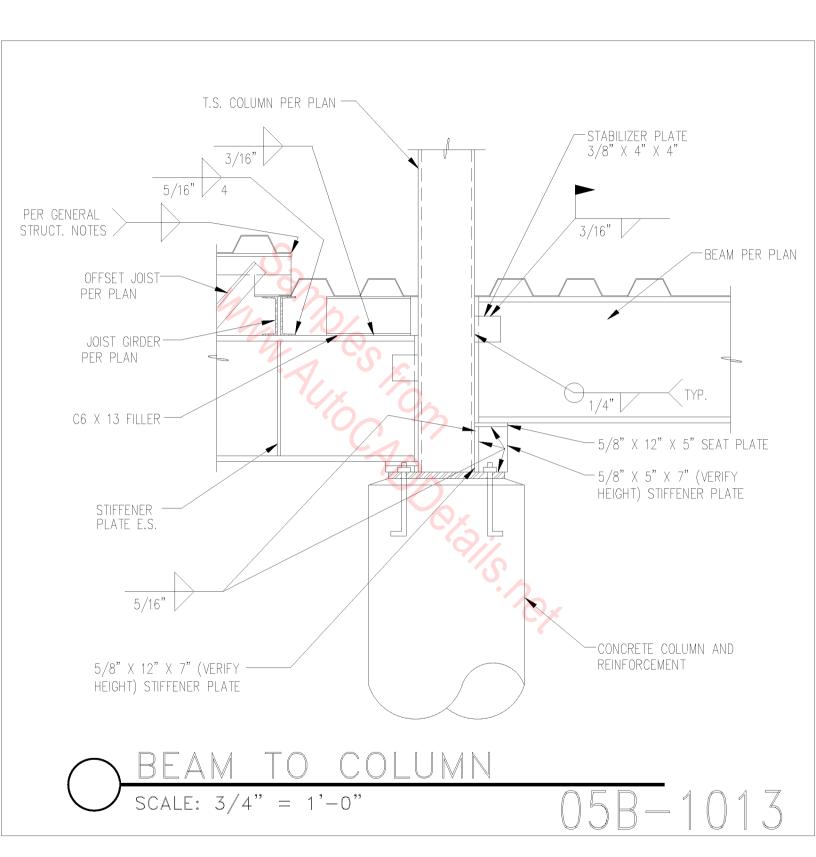
05B-1009

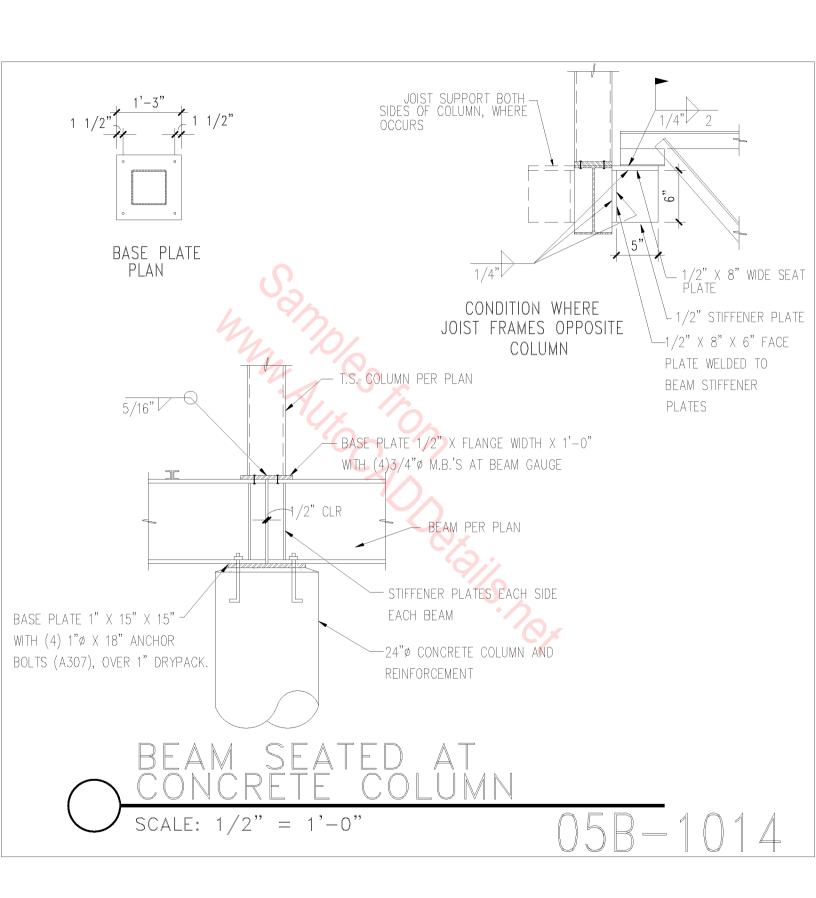


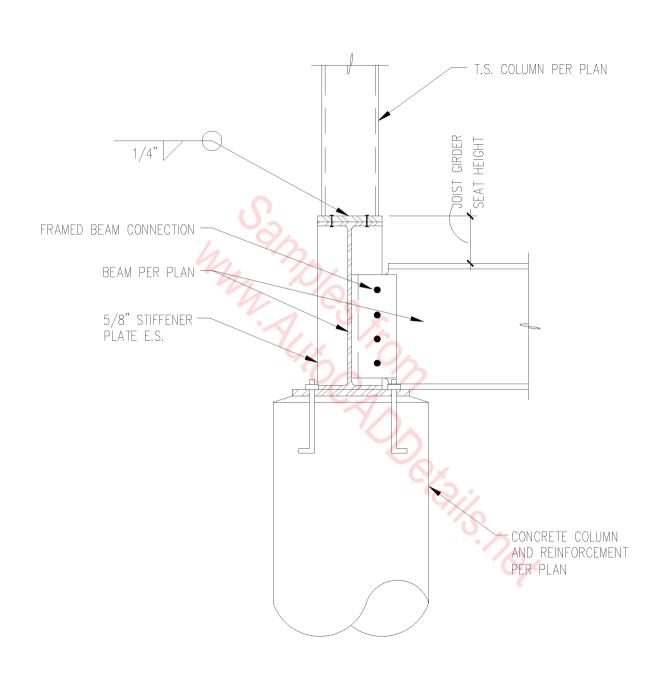


BEAM TO BEAM @ COLUMN 3/4" = 1'-0" 05B-1011





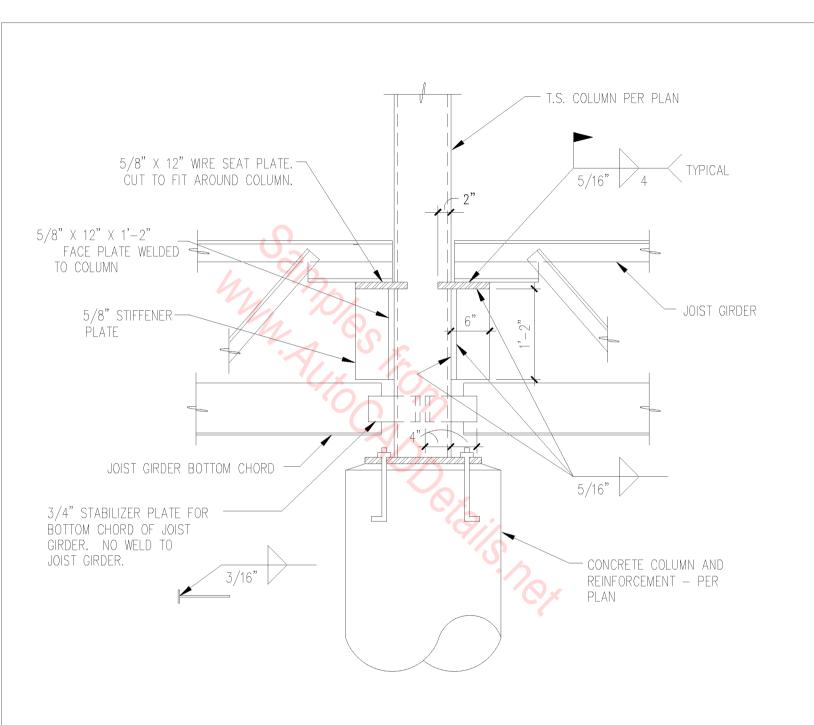




BEAM TO BEAM

SCALE: 3/4" = 1'-0"

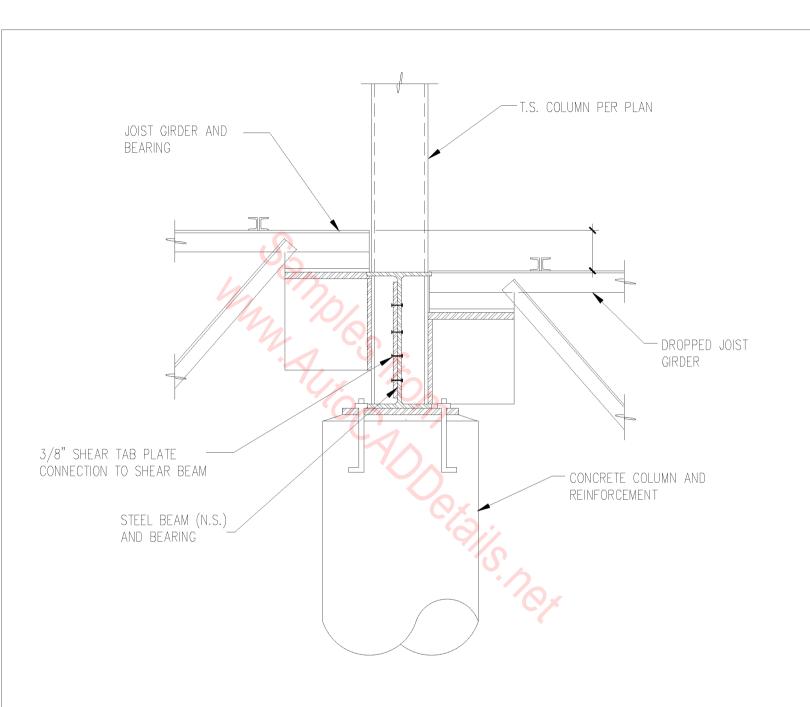
05B-1015



JOIST GIRDER TO COLUMN

SCALE: 3/4" = 1'-0"

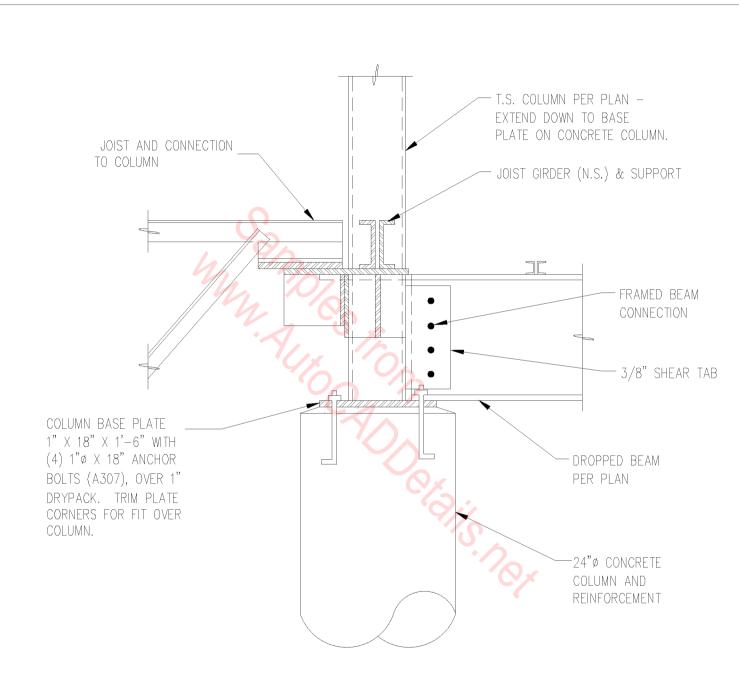
 $\overline{05B-1016}$



JOIST AND GIRDER CONNECTION TO COLUMN

3/4" = 1'-0"

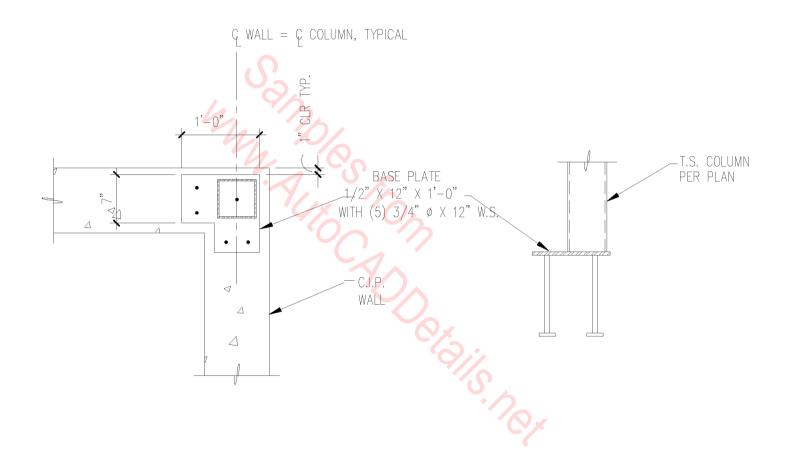
05B-1017



JOIST, GIRDER AND BEAM CONNECTION AT COLUMN

3/4" = 1'-0"

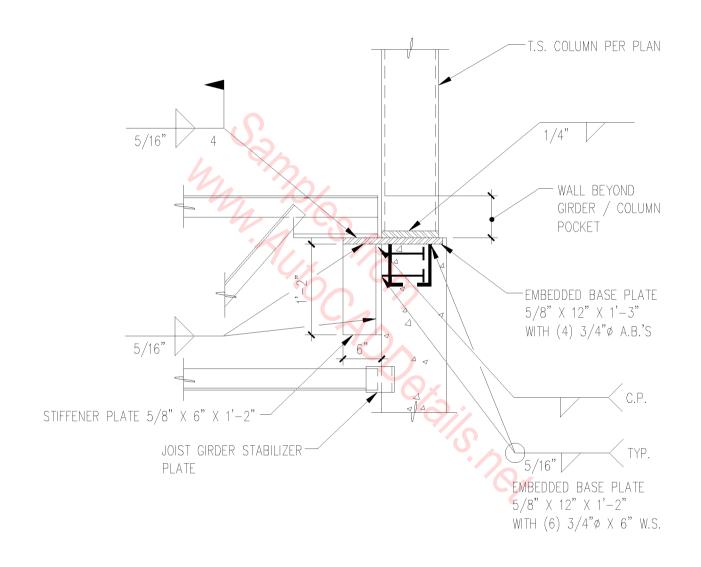
05B-1018



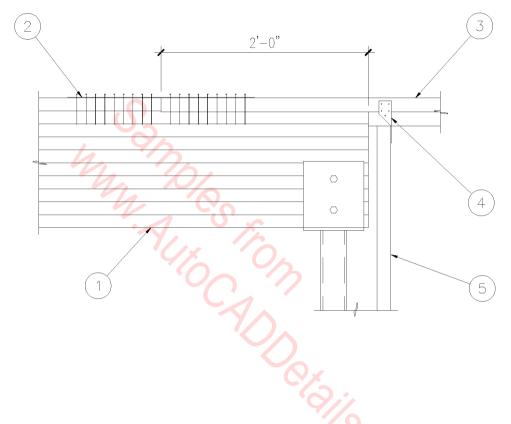
T.S. COL. AT C.I.P. WALL

3/4" = 1'-0"

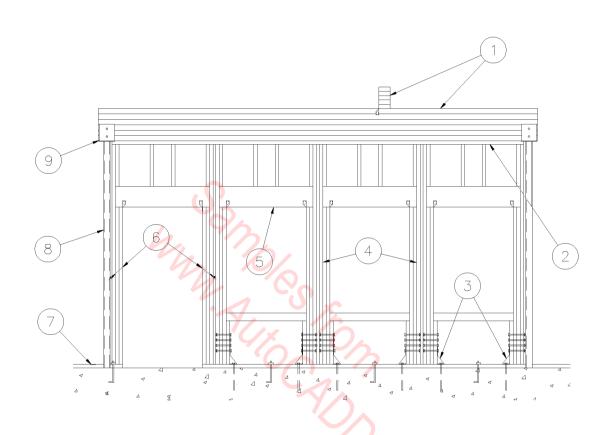
05B-1019







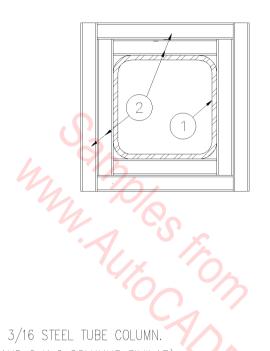
- 1. GLU-LAM BEAM NOTCH TO RECEIVE TOP PLATE
- 2. SIMPSON ST24 STRAP TIE WITH 18 16d NAILS.
- 3. DOUBLE TOP PLATE.
- 4. SIMPSON H2.5 HURRICANE TIE.
- 5. 2X STUD.



- 1. GLU-LAM BEAM.
- 2. 2X TOP PLATE, NON-BEARING.
- 3. SIMPSON HOLD DOWN.
- 4. KING STUD TYPICAL.
- 5. HEADER PER SCHEDULE.
- 6. DOUBLE 2X.
- 7. PRESSURE TREATED SILL PLATE.
- 8. TUBE STEEL COLUMN PER SCHEDULE.
- 9. BEAM SEAT.

1/4" = 1'-0'

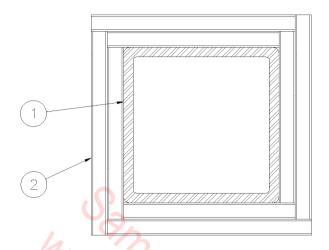
05B-1022



- 1. 4 X 4 X 3/16 STEEL TUBE COLUMN. (4 X 6 AND 6 X 6 COLUMNS SIMILAR).
- 2. 2 LAYERS OF 1/2" GYPSUM WALLBOARD ADHESIVELY SECURED TO COLUMN. AND SUCCESSIVE LAYERS, WALLBOARD APPLIED WITHOUT HORIZONTAL JOINTS. CORNER EDGES OF EACH LAYER STAGGERED. WALLBOARD LAYER BELOW OUTER LAYER SECURED TO COLUMN WITH DOUBLED NO. 18 GAUGE WIRE TIES SPACED 15" ON CENTER. EXPOSED CORNERS TAPED AND TREATED.

1 HOUR FIRE RATED COLUMN PROTECTION 1-7.1 TABLE 43-A, 1991 UNIFORM BUILDING CODE

1 HOUR COLUMN

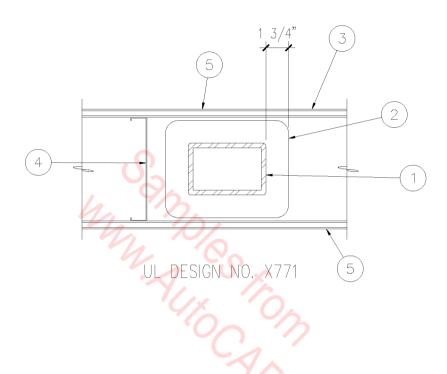


1. TUBE STEEL COLUMN.

2. 2 LAYERS OF 5/8" TYPE 'X'
GYP. BD. ADHESIVELY APPLIED
TO COLUMN AND SUCCESSIVE LAYERS.
WALLBOARD APPLIED WITHOUT HORIZONTAL
JOINTS. CORNER EDGES OF EACH LAYER
STAGGERED. WALLBOARD LAYER BELOW
OUTER LAYER SECURED TO COLUMN
WITH DOUBLED NO. 18 GAUGE WIRE
TIES SPACES 15" O.C. EXPOSED
CORNERS TAPED & TREATED.

GENERAL NOTES:

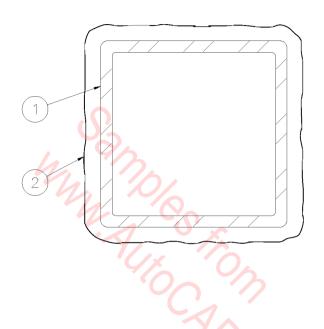
- A. DETAIL PROVIDES ONE-HOUR FIRE RESISTIVE RATING PER ITEM 1-7.1 OF TABLE 43-A, 1988 U.B.C.
- B. AT CONTRACTORS OPTION, CEMENTITIOUS FIREPROOFING,
 MAY BE USED TO ACHIEVE ONE—HOUR FIRE RESISTANCE.



- 1. TUBE STEEL COLUMN.
- 2. CEMENTITIOUS MIXTURE APPLIED BY MIXING WATER AND SPRAYING IN ONE OR MORE COATS TO STEEL SURFACE WHICH MUST BE CLEAN AND FREE OF DIRT, LOOSE SCALE AND OIL. MINIMUM AVERAGE AND INDIVIDUAL DENSITY OF 15/14 PCF RESPECTIVELY. FOR METHOD OF DENSITY DETERMINATION, SEE DESIGN INFORMATION SECTION, PRECEDING THESE DESIGNS. APPLY 1-3/4 THICK UNIFORM COAT. ZONOLITE CONSTRUCTION PRODUCTS DIVISION, W. R. GRACE & CO. TYPE MK-6CBF.
- 3. 1 HOUR WALL.
- 4. 8" 25 GA. METAL STUDS AT 16" O.C.
- 5. 5/8" TYPE "X" GYPSUM WALLBOARD.

2 HOUR COLUMN

SCALE: 3" = 1'-0"

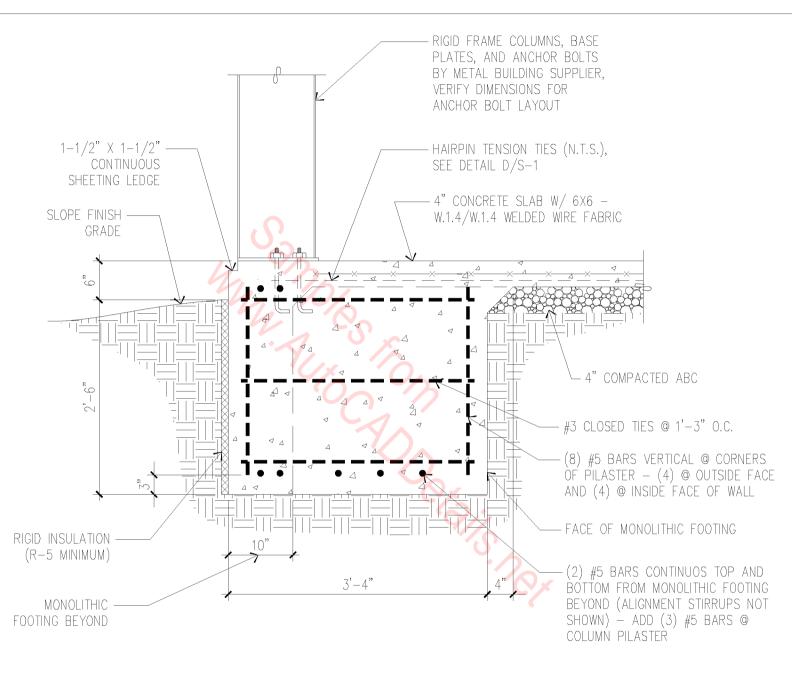


1. TUBE STEEL COLUMN

2. CEMENTITIOUS SPRAY - APPLIED FIREPROOFING: 1" THICK FOR 4X4X1/4 T.S. COLUMNS AND 9/16" THICK FOR 6X6X3/8" T.S. COLUMNS

NOTE: DETAIL PROVIDES ONE-HOUR

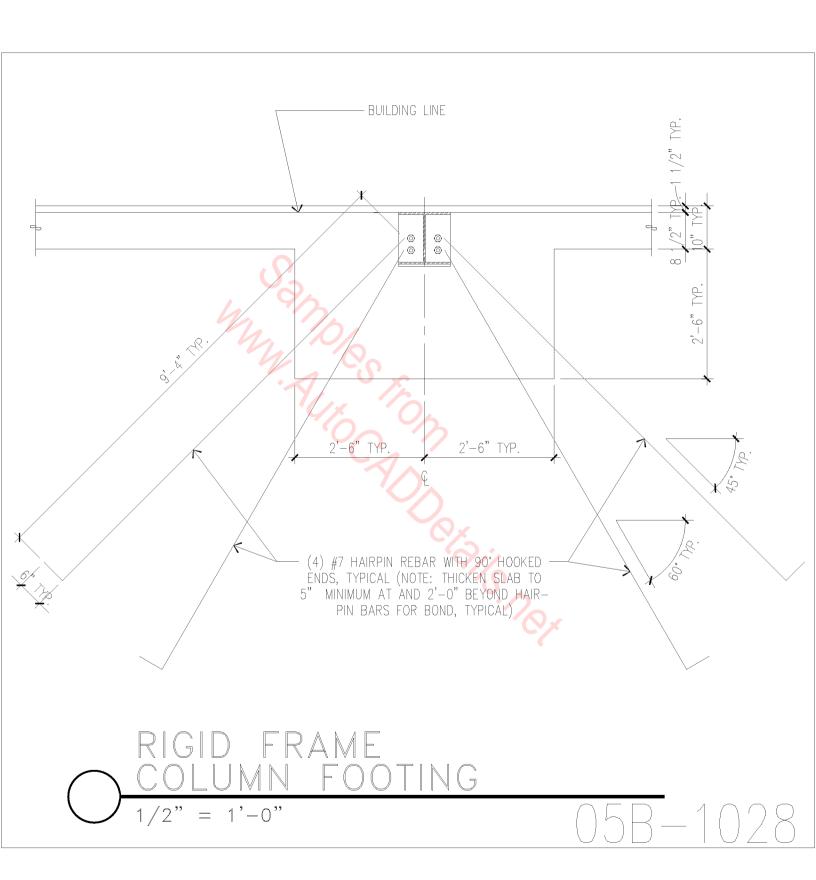
FIRE RESISTANCE PER U.L. DESIGN NO. X752

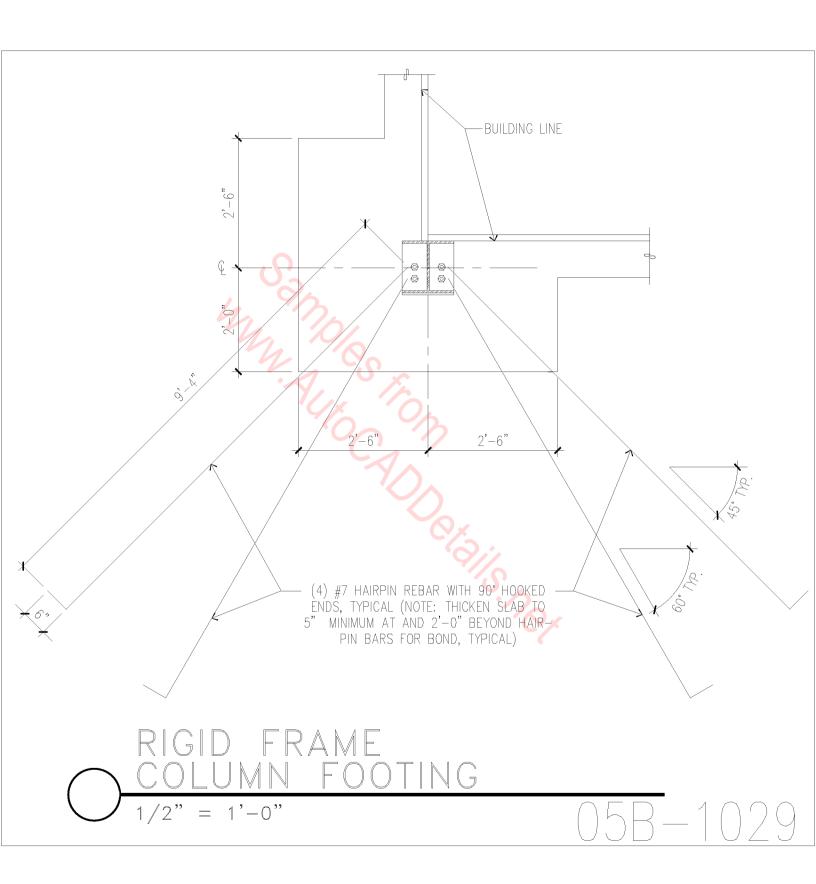


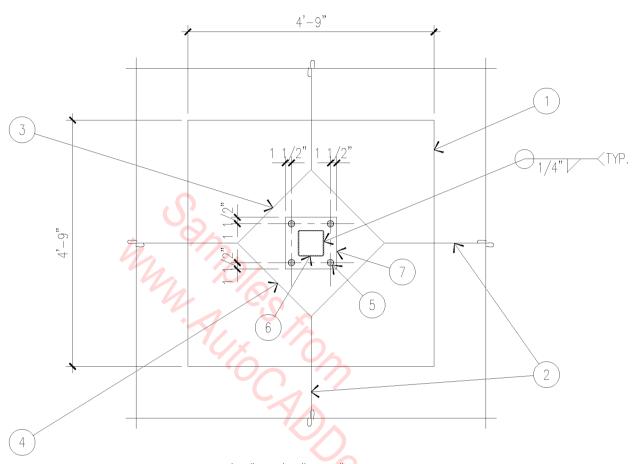
MONOLITHIC FOOTING @ RIGID FRAME COLUMN

3/4" = 1'-0"

05B - 1027

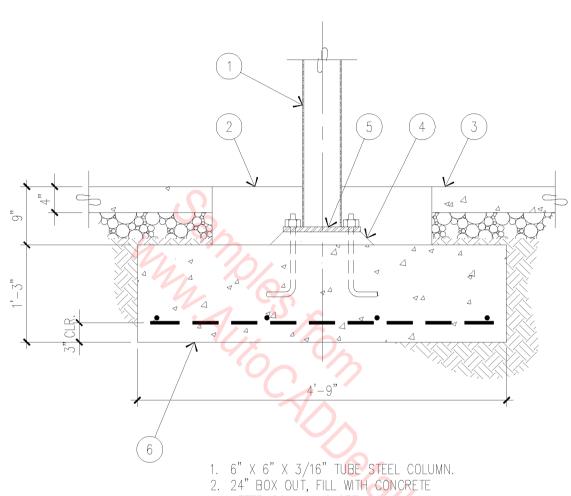






- 1. 4'-9" X 4'-9" X 15" THICK PAD WITH (4) #5 REBARS, EACH WAY.
- 2. WEAKENED PLANE OR CON-STRUCTION JOINT.
- 3. 24" BOX OUT, FILL WITH CONCRETE AFTER COLUMN IS SET.
- 4. TOOL JOINT.
- 5. (4) 3/4" Ø ANCHOR BOLTS WITH
 4" HOOK AND MINIMUM 8" EMBED.
 6. 6" X 6" X 3/16" TUBE STEEL COLUMN.
 7. 12" X 12" X 3/4" COLUMN BASE PLATE.

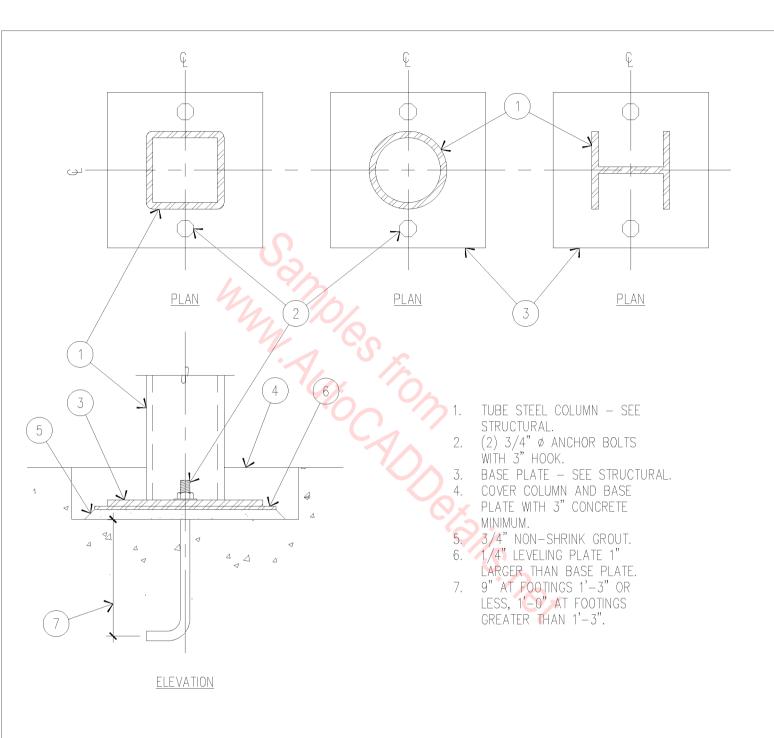
1/2" = 1'-0"



- AFTER COLUMN IS SET.

- 3. 4" CONCRETE OVER 4" ABC.
 4. 2" GROUT PAD.
 5. 12" X 12" X 3/4" STEEL COLUMN PLATE.
 WITH (4) 3/4" Ø ANCHOR BOLTS WITH
- 4" HOOK AND 8" MINIMUM EMBED. 6. 4'-9" X 4'-9" X 1'-3" FOOTING WITH (4) #5 REBARS EACH WAY.

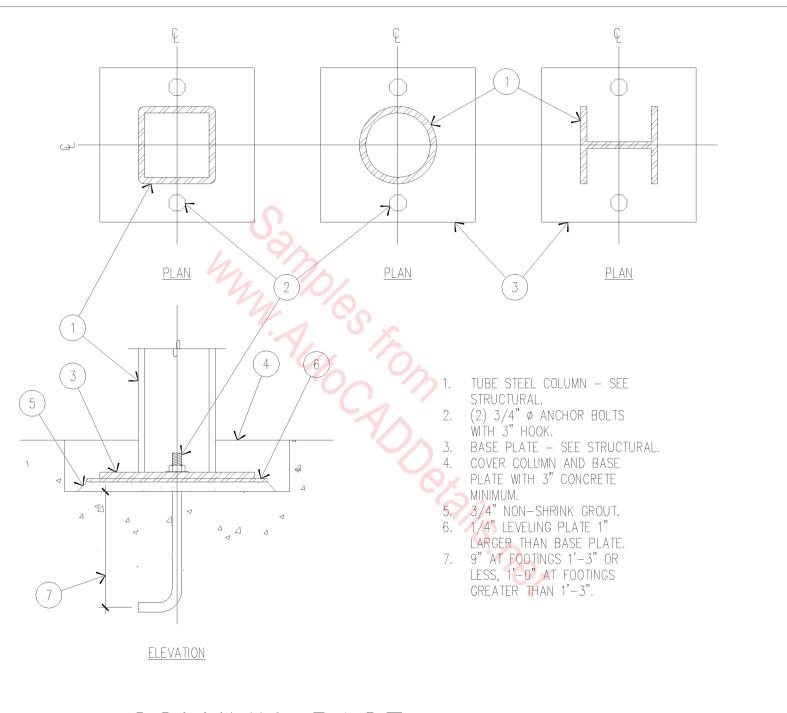
3/4" = 1'-0"



COLUMN BASE

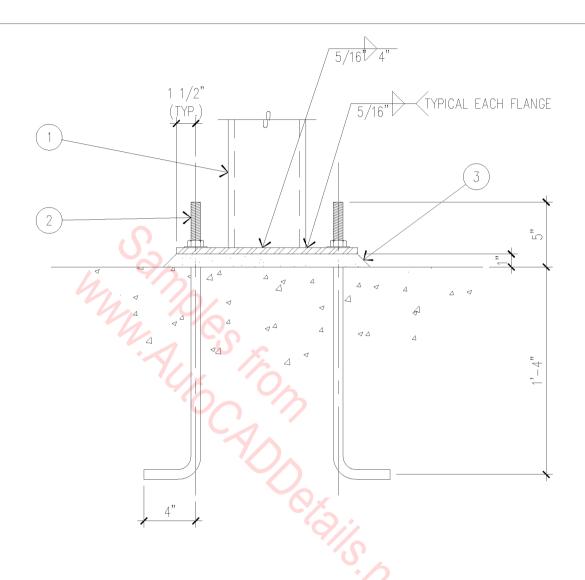
 $1 \ 1/2$ " = 1'-0"

 $\overline{05}B - 1032$

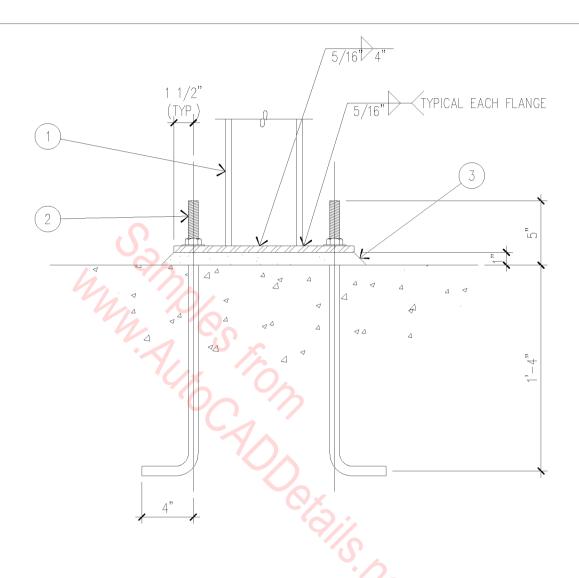


 $1 \ 1/2$ " = 1'-0"

 $\overline{05B} - 1032$



- TUBE STEEL COLUMN SEE STRUCTURAL. 1.
- 2. (4) 3/4" Ø THROUGH BOLTS
 WITH HEX NUTS AND STANDARD
 WASHERS IN 1 1/4" Ø HOLES.
 3. 1" NON-SHRINK GROUT.
- BASE PLATE SEE STRUCTURAL.

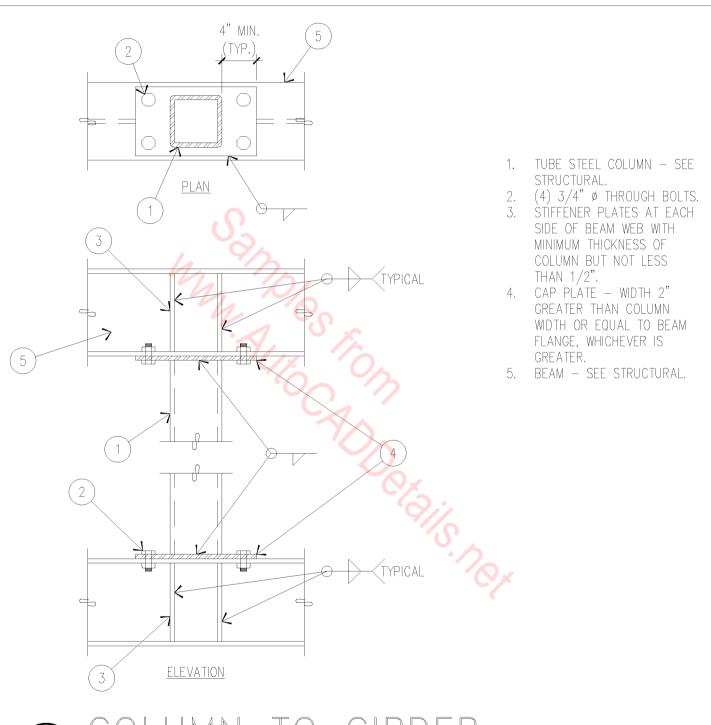


- 1. TUBE STEEL COLUMN SEE STRUCTURAL
- STRUCTURAL.

 2. (4) 3/4" Ø THROUGH BOLTS
 WITH HEX NUTS AND STANDARD
 WASHERS IN 1 1/4" Ø HOLES.
- WASHERS IN 1 1/4" Ø HOLES.
 3. 1" NON-SHRINK GROUT.
 BASE PLATE SEE STRUCTURAL.

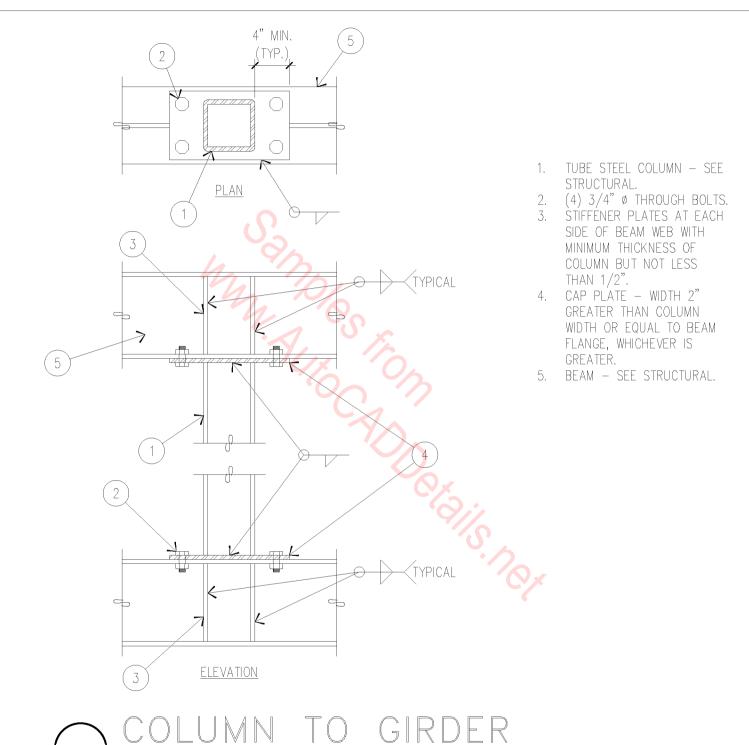
TYPICAL ANCHOR BOLT

 $1 \ 1/2" = \overline{1'-0"}$

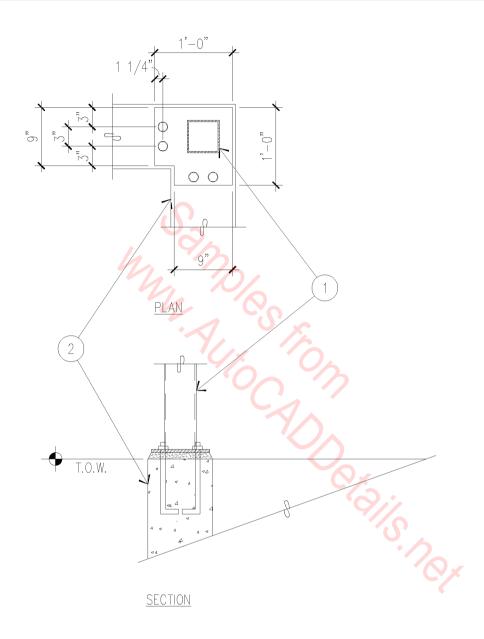


COLUMN TO GIRDER

1" = 1'-0'

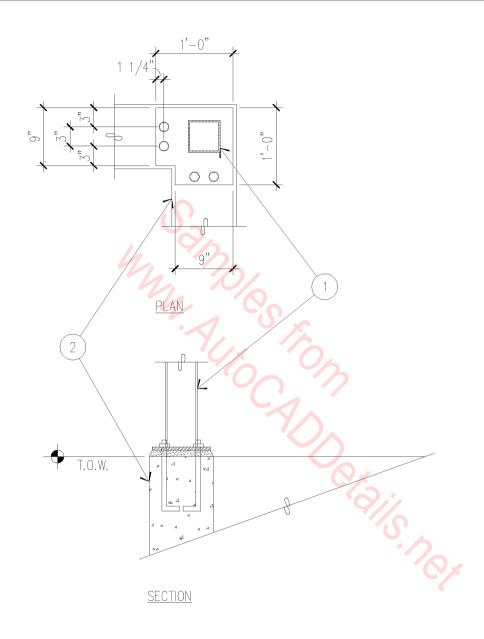


1'-0"



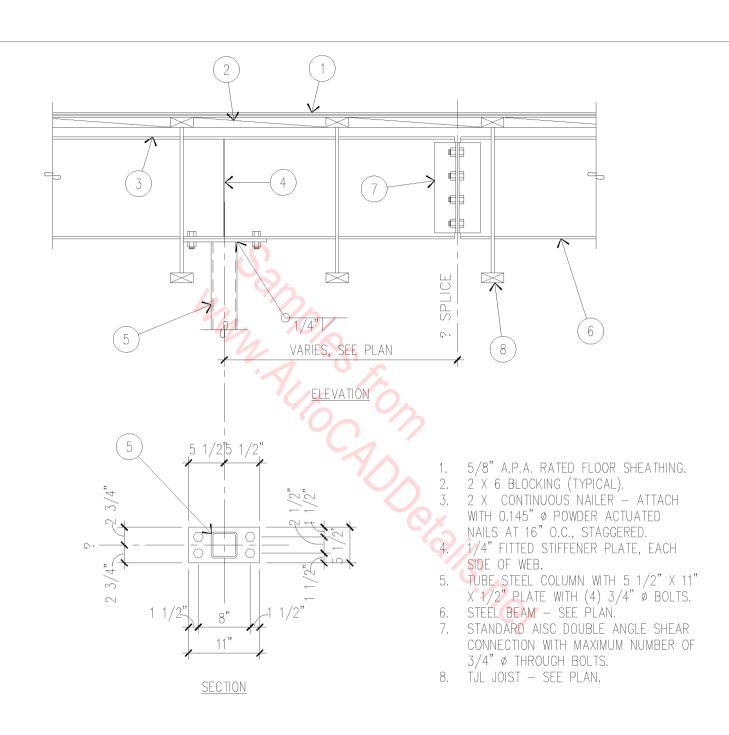
- 1. TUBE STEEL COLUMN PER PLAN ON 1/2"
 BEARING PLATE AND
 (4) 3/4" Ø X 10"
 ANCHOR BOLTS ON 1" (MINIMUM) SHIM AND NON-SHRINK GROUT. 2. 10" CONCRETE WALL.

= 1'-0"



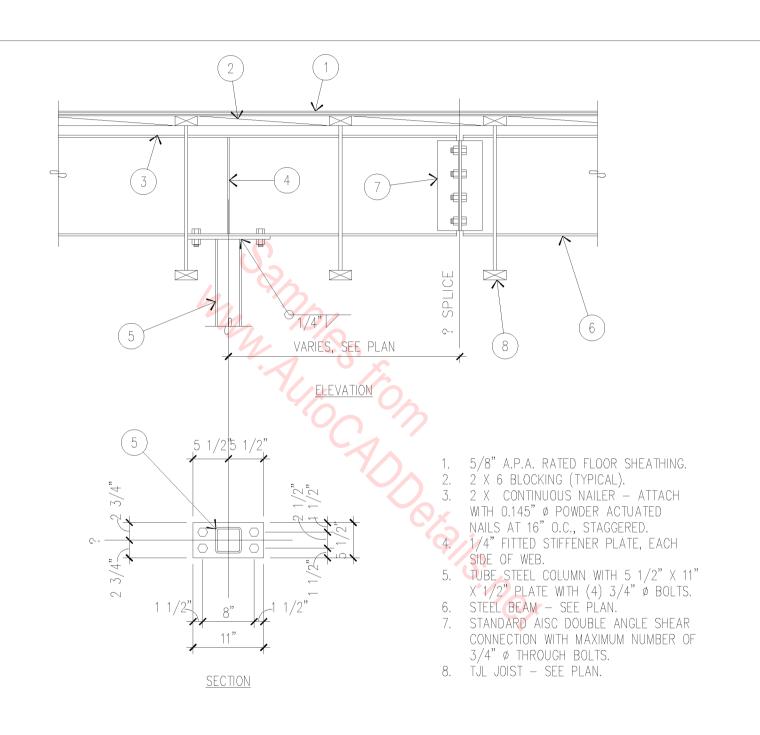
- 1. TUBE STEEL COLUMN
 PER PLAN ON 1/2"
 BEARING PLATE AND
 (4) 3/4" Ø X 10"
 ANCHOR BOLTS ON
 1" (MINIMUM) SHIM AND
 NON-SHRINK GROUT.
 2. 10" CONCRETE WALL.

= 1'-0"



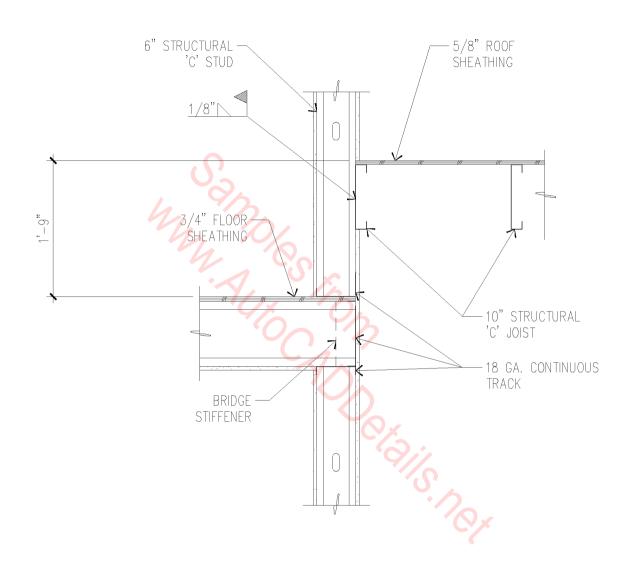
FRAMING SECTION

3/4" = 1'-0"



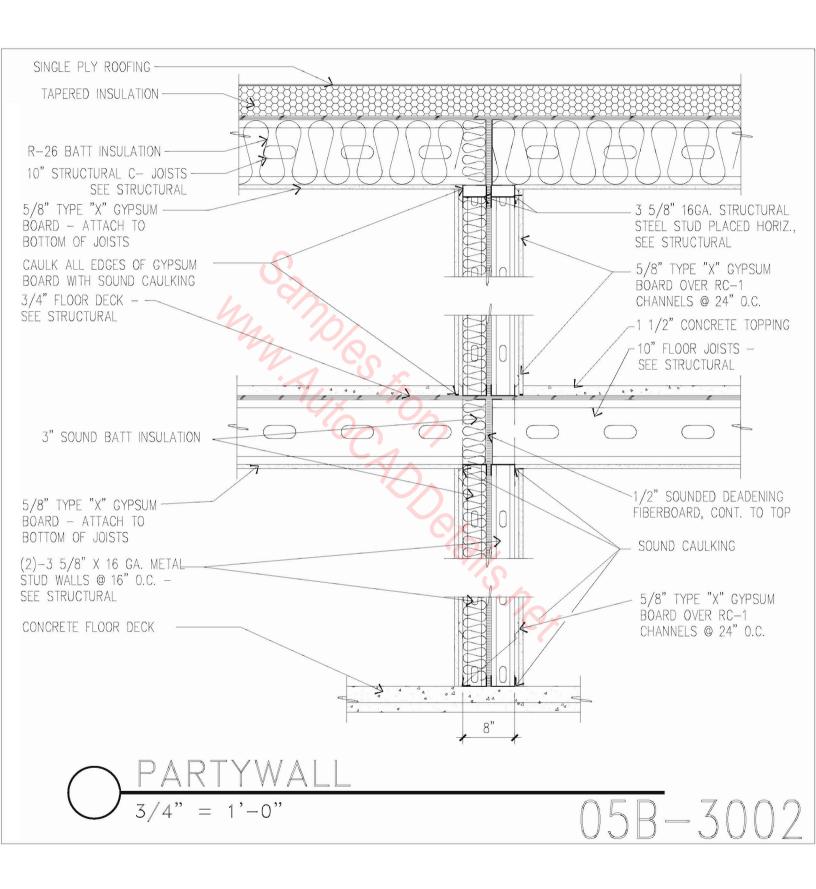
FRAMING SECTION

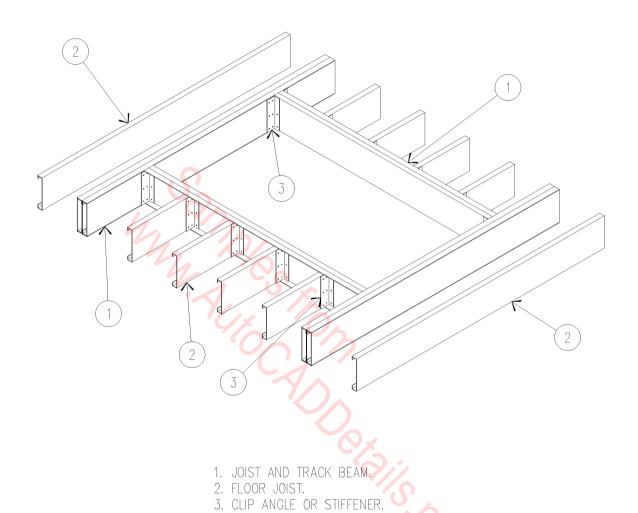
3/4" = 1'-0"



FRAMING SECTION

3/4" = 1'-0"



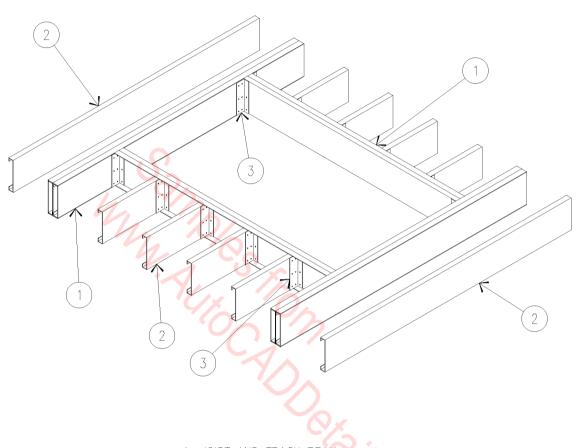


NOTE: USE JOIST AND TRACK BEAM AS REQUIRED BY DESIGN. ADDITIONAL MEMBERS MAY BE REQUIRED.

OPENING IN FLOOR FRAMING

N.T.S.

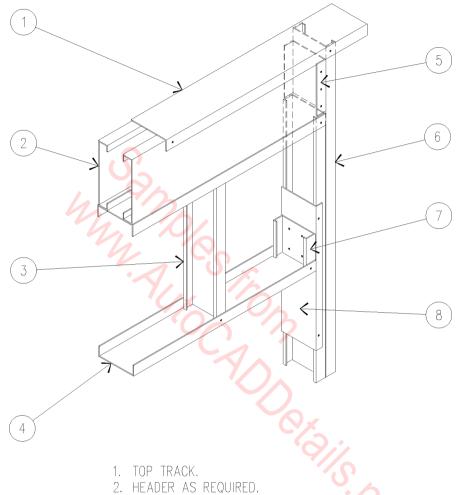
 $\overline{05B} - 3003$



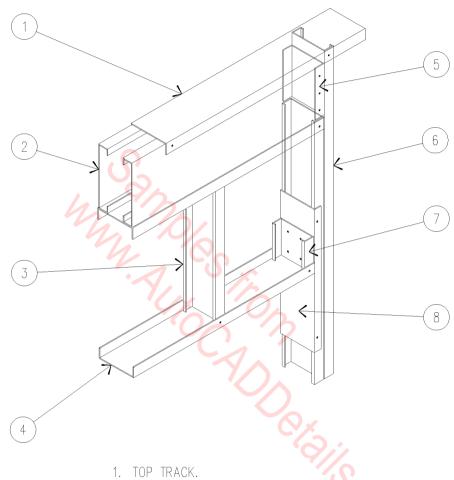
- 1. JOIST AND TRACK BEAM.
- FLOOR JOIST.
 CLIP ANGLE OR STIFFENER.

NOTE: USE JOIST AND TRACK BEAM AS REQUIRED BY DESIGN. ADDITIONAL MEMBERS MAY BE REQUIRED.

N.T.S.



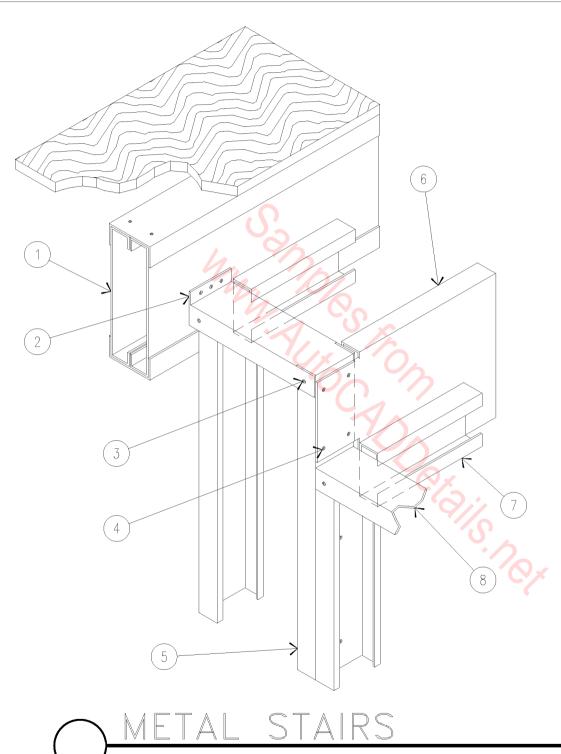
- 3. CRIPPLE STUD.
- 4. HEAD TRACK.
- 5. SECTION OF TRACK.
- 6. MULTIPLE MEMBERS AS REQUIRED AT JAMB.
- 7. SECTION OF STUD.
- 8. EXTENDED CLOSURE TRACK AS REQUIRED FOR HEAD AND JAMB STRENGTH.



- 2. HEADER AS REQUIRED.
- 3. CRIPPLE STUD.
- 4. HEAD TRACK.
- 5. SECTION OF TRACK.
- 6. MULTIPLE MEMBERS AS REQUIRED AT JAMB.
- 7. SECTION OF STUD.
- 8. EXTENDED CLOSURE TRACK AS REQUIRED FOR HEAD AND JAMB STRENGTH.

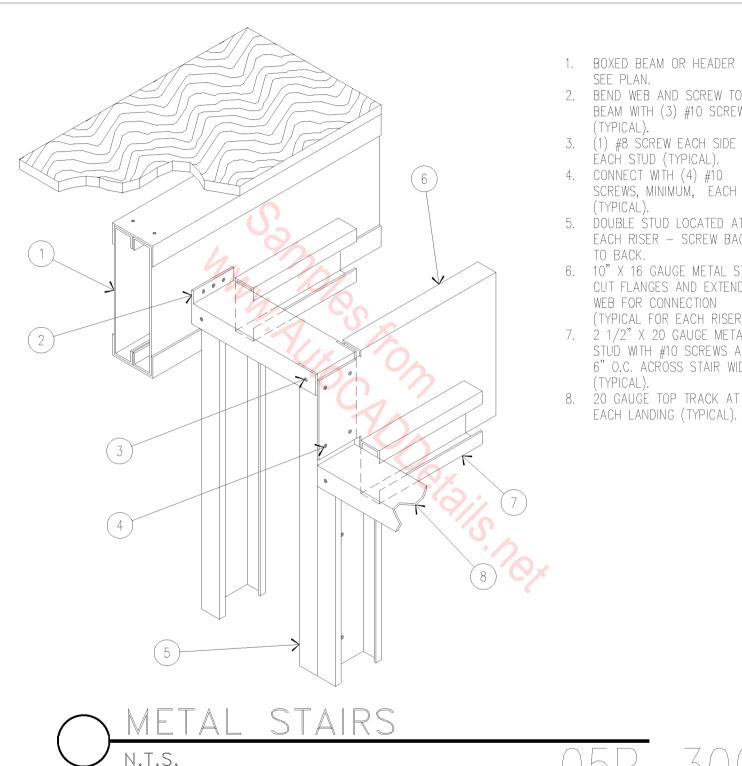
METAL STUD HEADER

 $1 \ 1/2$ " = 1'-0"

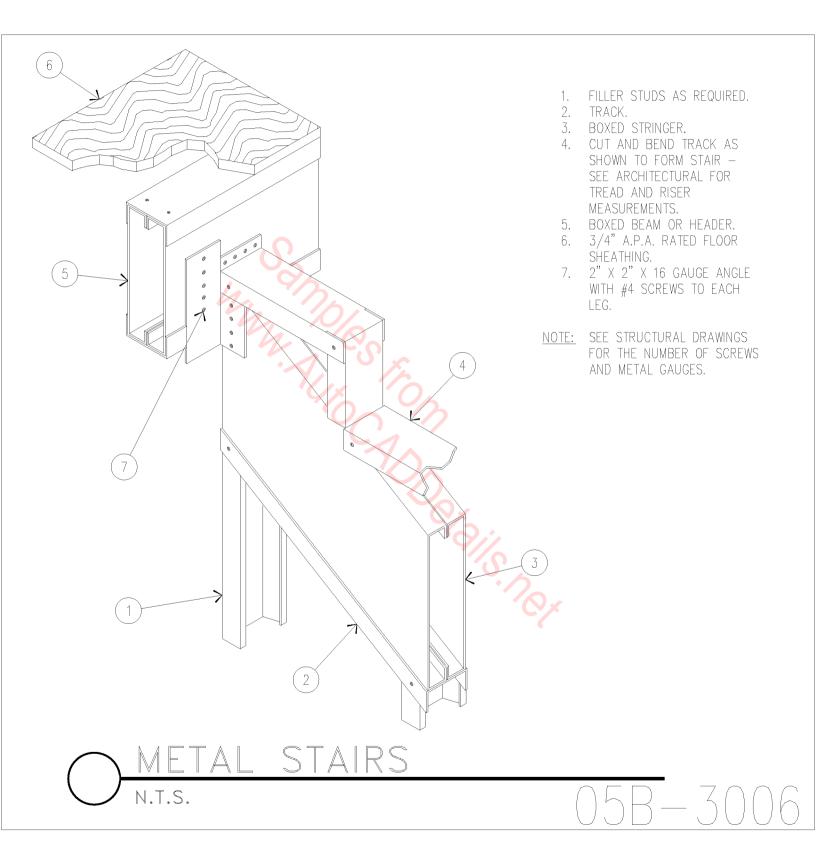


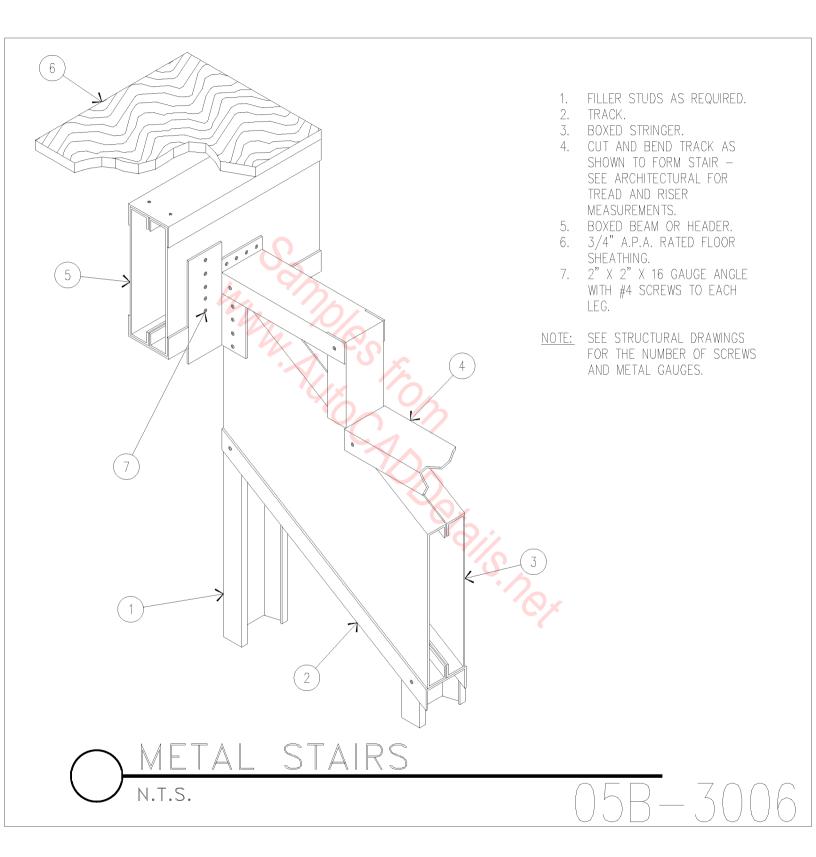
- BOXED BEAM OR HEADER -SEE PLAN.
- BEND WEB AND SCREW TO BEAM WITH (3) #10 SCREWS (TYPICAL).
- (1) #8 SCREW EACH SIDE OF ÈÁCH STUD (TYPICAL).
- CONNECT WITH (4) #10 SCREWS, MINIMUM, "EACH END (TYPICAL).
- DOUBLE STUD LOCATED AT EACH RISER - SCREW BACK TO BACK.
- 6. 10" X 16 GAUGE METAL STUD -CUT FLANGES AND EXTEND WEB FOR CONNECTION (TYPICAL FOR EACH RISER).
- 2 1/2" X 20 GAUGE METAL STUD WITH #10 SCREWS AT 6" O.C. ACROSS STAIR WIDTH (TYPICAL). 20 GAUGE TOP TRACK AT
- EACH LANDING (TYPICAL).

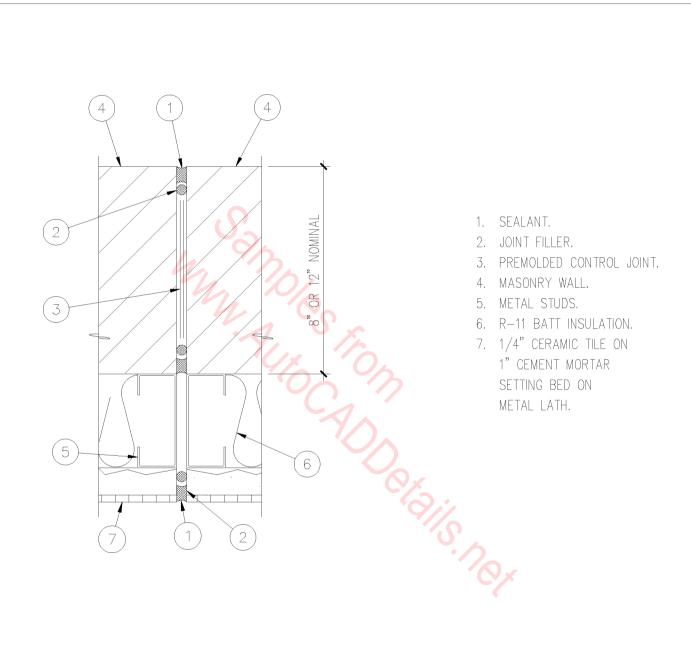
N.T.S.



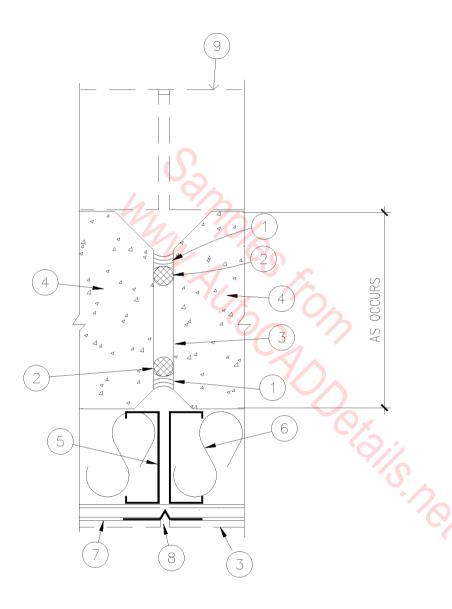
- BOXED BEAM OR HEADER -
- BEND WEB AND SCREW TO BEAM WITH (3) #10 SCREWS
- (1) #8 SCREW EACH SIDE OF EACH STUD (TYPICAL).
- CONNECT WITH (4) #10 SCREWS, MINIMUM, "EACH END
- DOUBLE STUD LOCATED AT EACH RISER - SCREW BACK
- 6. 10" X 16 GAUGE METAL STUD -CUT FLANGES AND EXTEND WEB FOR CONNECTION (TYPICAL FOR EACH RISER).
- 2 1/2" X 20 GAUGE METAL STUD WITH #10 SCREWS AT 6" O.C. ACROSS STAIR WIDTH
- EACH LANDING (TYPICAL).







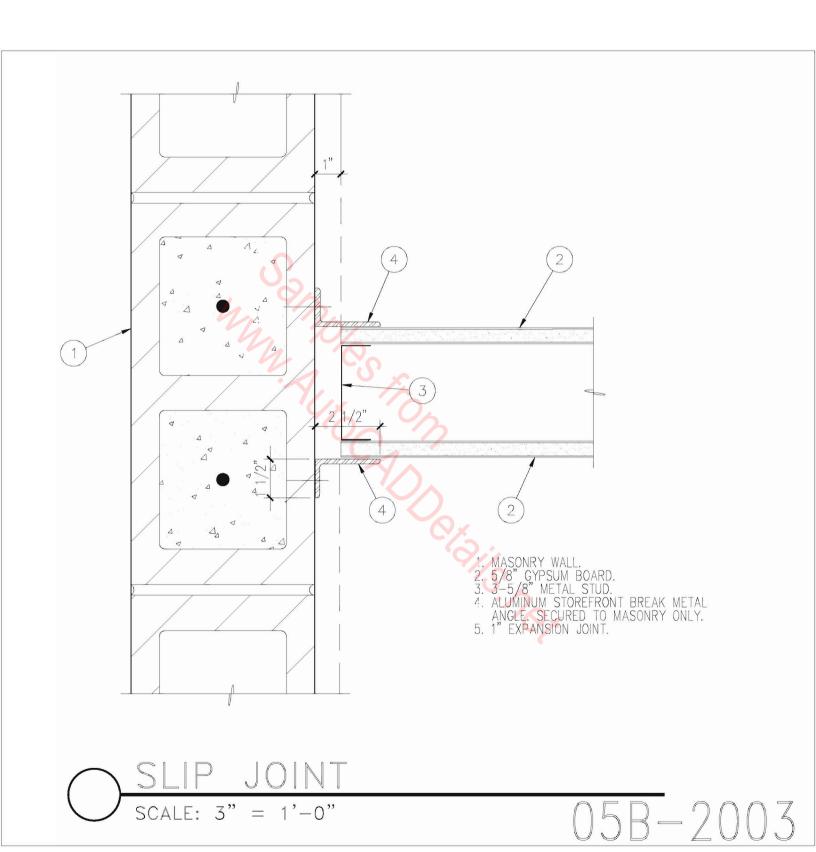
EXPANSION JOINT © FURRED C.M.U. WALL 3" = 1'-0" 05B-2001

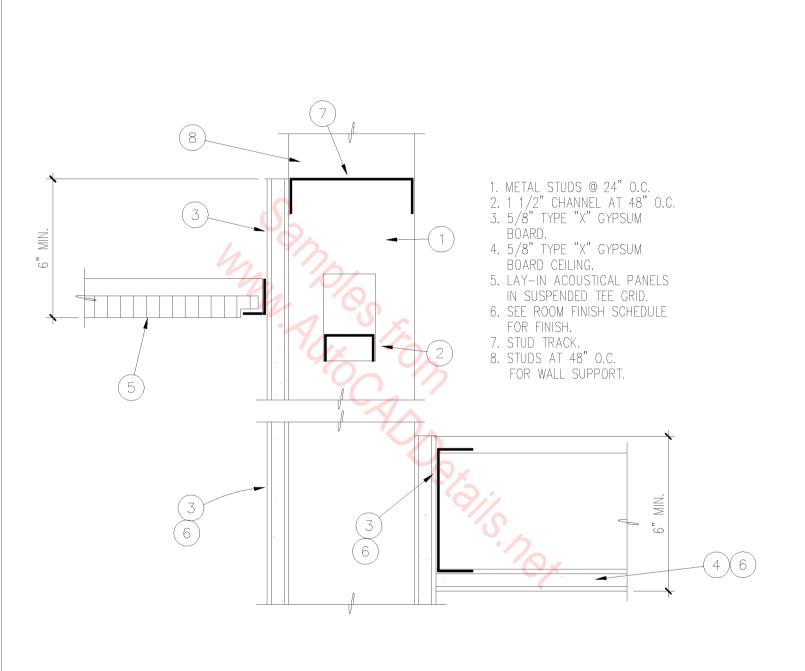


- 1. SEALANT.
- 2. BACKER ROD.
- 3. CERAMIC WALL TILE ON GLASS MESH MORTAR UNIT IN LIEU OF GYPSUM BOARD.
- 4. CONCRETE WALL.
- 5. METAL STUDS.
- 6. R-11 BATT INSULATION AT EXTERIOR WALL.
- 7. 5/8" GYPSUM WALLBOARD.
- 8. METAL CONTROL JOINT AT GYPSUM BOARD, SEALANT AT CERAMIC TILE.
- 9. LINE OF WALL FURRED WITH METAL STUDS AND GYPSUM BOARD.

CONTROL JOINT FURRED PRECAST WALL

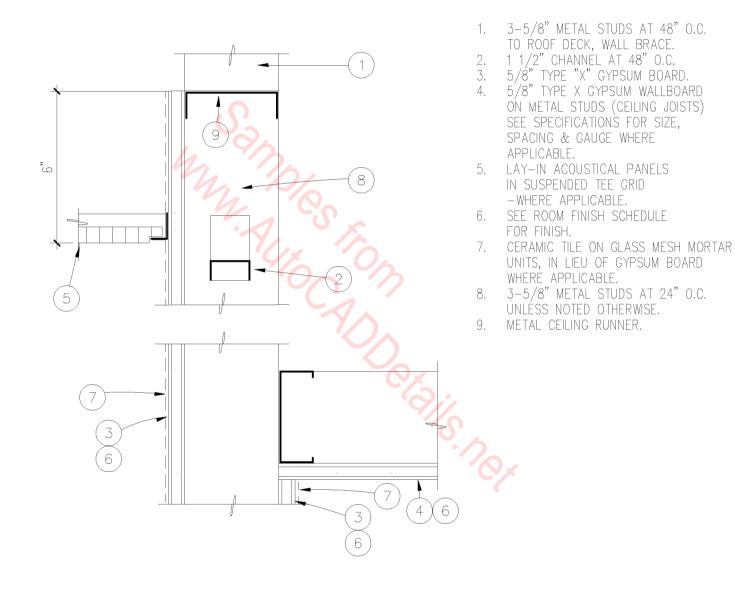
SCALE: 3'' = 1' - 0''



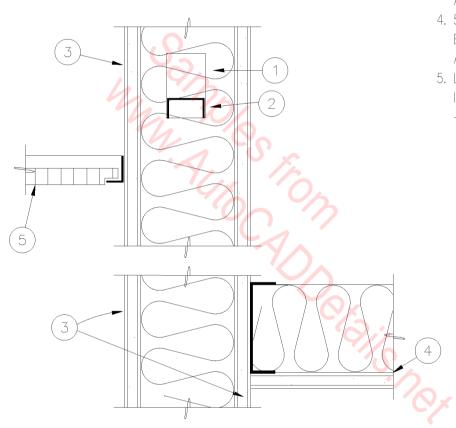


CEILING AT WALL

SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"



1. METAL STUDS @ 24" O.C.

2. 1 1/2" CHANNEL AT 48" O.C.

3. 5/8" TYPE "X" GYPSUM BOARD WHERE APPLICABLE.

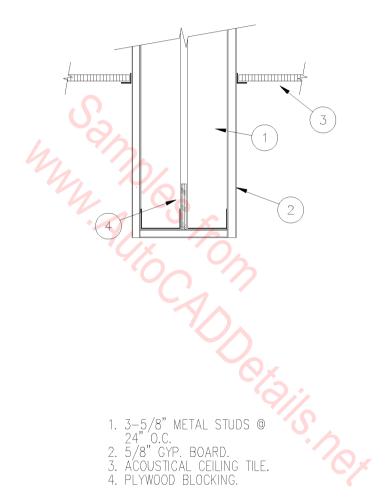
4. 5/8" TYPE "X" GYPSUM BOARD CEILING WHERE APPLICABLE.

5. LAY-IN ACOUSTICAL PANELS
IN SUSPENDED TEE GRID
-WHERE APPLICABLE.

CEILING AT WALL

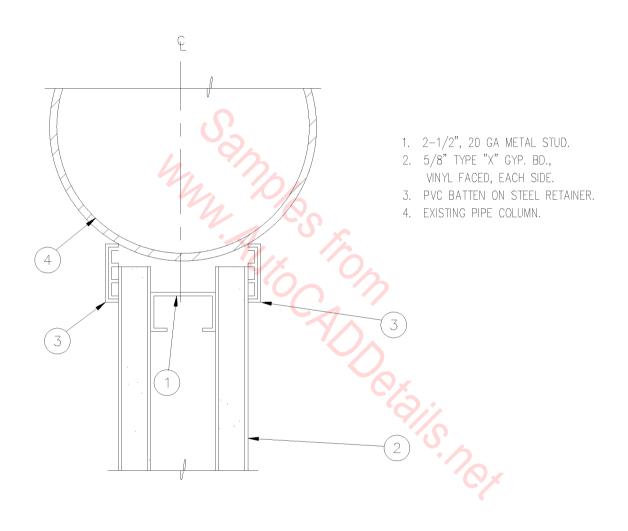
SCALE: 3" = 1'-0"

05B-2006



CEILING TRANSITION

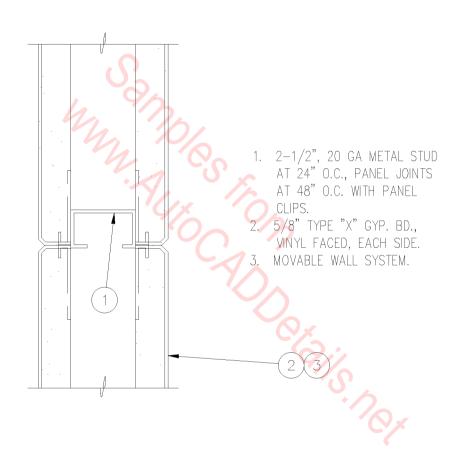
SCALE: 1'' = 1'-0''



WALL AT COLUMN

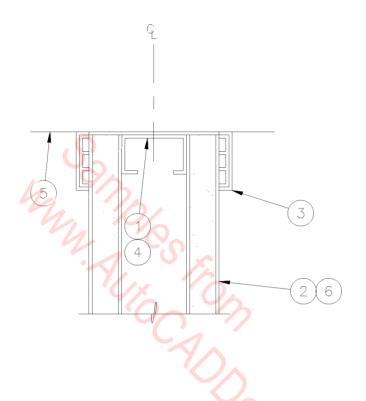
3" = 1'-0"

 $\overline{05B} - 2008$



DEMOUNTABLE WALL

SCALE: 3'' = 1'-0''

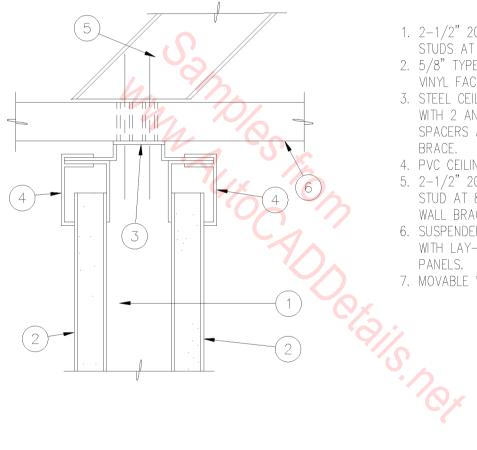


- 1. 2-1/2", 20 GA METAL STUD.
- 2. 5/8" TYPE "X" GYP. BD., VINYL FACED, EACH SIDE.
- 3. PVC BATTEN ON STEEL RETAINER.
- 4. ANCHOR TO ADJACENT WALL 6" FROM TOP AND BOTTOM AND 32" O.C.
- 5. FACE OF ADJACENT WALL.
- 6. MOVABLE WALL SYSTEM.

DEMOUNTABLE WALL

SCALE: 3'' = 1'-0''

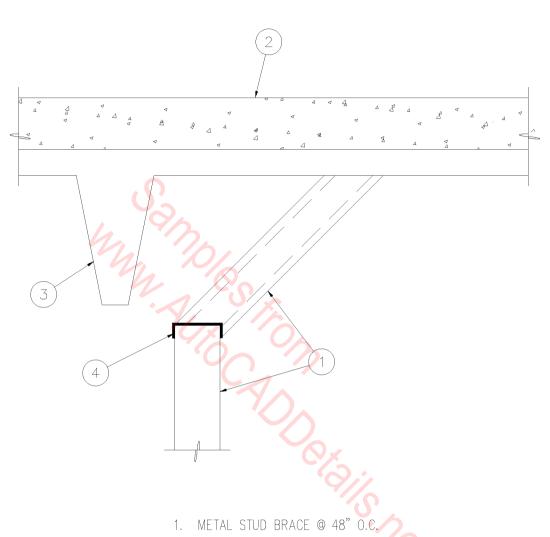
 $\overline{05B} - 2010$



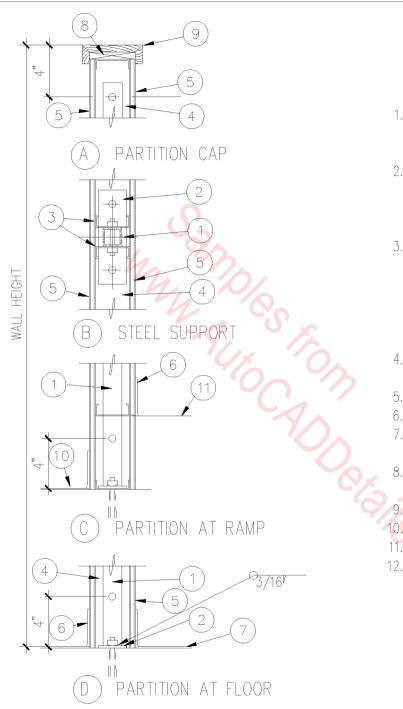
- 1. 2-1/2" 20 GA. METAL STUDS AT 24" O.C.
- 2. 5/8" TYPE "X" GYP. BD., VINYL FACED.
- 3. STEEL CEILING RUNNER WITH 2 ANCHORS WITH SPACERS AT EACH WALL BRACE.
- 4. PVC CEILING TRIM.
- 5. 2-1/2" 20 GA METAL STUD AT 8'-0" O.C. WALL BRACE.
- 6. SUSPENDED CEILING SYSTEM WITH LAY-IN ACOUSTIC PANELS.
- 7. MOVABLE WALL SYSTEM.

SCALE: 3'' = 1' - 0''

5B-2011



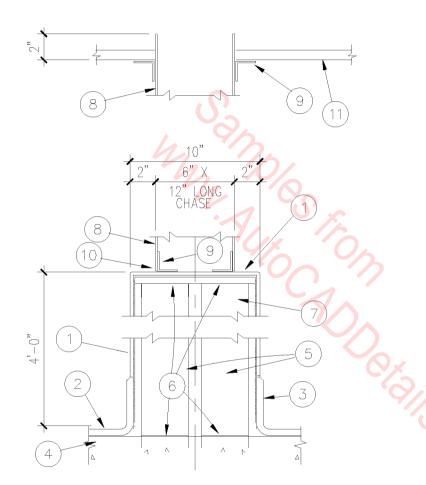
- 2. CONCRETE TOPPING.
- 3. STRUCTURAL CONCRETE DOUBLE TEES.
- 4. METAL RUNNER.



- 1. STEEL TUBE 2" X 2" X 3/16" LOCATE AT 6" FROM EACH END AND 6'-8" O. C.
- 2. STEEL PLATE 3" X 10" X 1/4"
 ANCHOR TO FLOOR WITH 23/4" DIAMETER. EXPANSION BOLTS
 EMBEDDED 3" MIN.
- 3. 2 3-5/8" METAL STUDS
 ANCHOR TO STEEL TUBE AT
 4" FROM TOP AND BOTTOM
 AND 2'-0" O.C. WITH
 1/2" DIAMETER BOLTS WITH 2"
 WASHERS EACH SIDE.
- 4. 3-5/8" METAL STUDS AT 16" O.C.
- 5. 5/8" TYPE "X" GYP. BD.
- 6. RUBBER BASE.
- 7. VCT TILE ON CONCRETE FLOOR SLAB.
- 8. 3/4" FIRE RETARDANT TREATED WOOD BLOCKING.
- 9. 3/4" HARDWOOD TRIM.
- 10. RAMP SIDE OF PARTITION.
- 11. PLATFORM SIDE OF PARTITION.
- 12. METAL STUD BLOCKING.

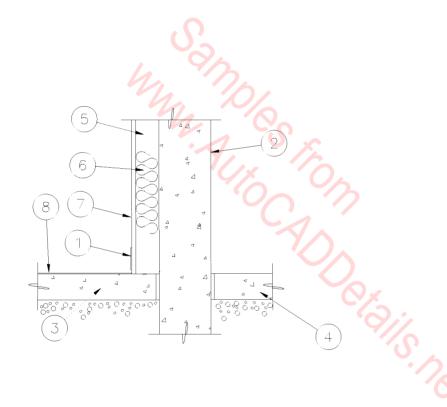
HALF WALL

 $1 \ 1/2$ " = 1'-0"



- 1. CERAMIC WALL TILE THIN SET ON GLASS MESH MORTAR UNIT.
- 2. FLOORING
- 3. FLOORING AND INTEGRAL BASE. (TROWEL ON SEAMLESS BASE).
- 4. DEPRESS CONCRETE SLAB
 3/8" FOR FLOORING.
 5. 3-5/8" METAL STUDS
 AT 24" O.C.
- 6. METAL STUD.
- 7. METAL STUD TRACK
- 8. STAINLESS STEEL UTILITY CHASE.
- 9. STAINLESS STEEL ANGLE FRAME.
- 10. SEALANT.
- 11. FINISH CEILING.

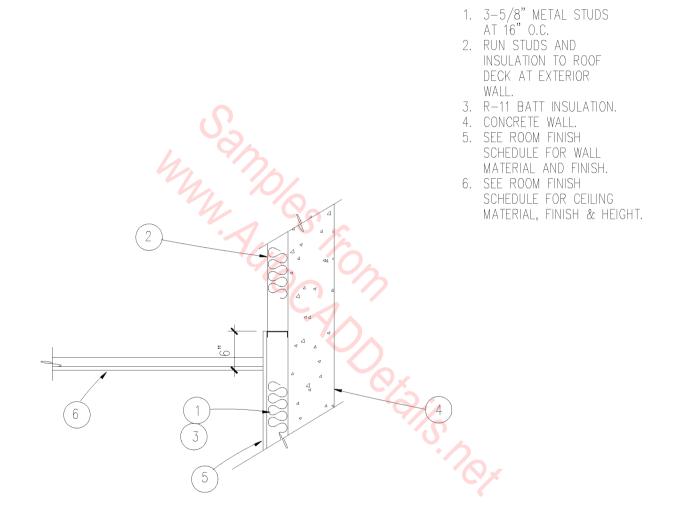
5B-2014

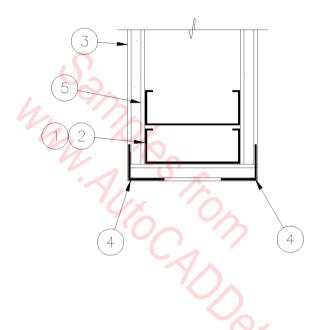


- 1. BASE.
- CONCRETE WALL.
- CONCRETE FLOOR SLAB ON ABC.
- EXTERIOR CONCRETE

- SIDEWALK ON ABC.
 3-5/8" METAL STUDS
 AT 24" O.C.
 R-11 BATT INSULATION.
 5/8" GYPSUM BOARD.
 FLOOR FINISH, SEE ROOM
 FINISH SCHEDULE.

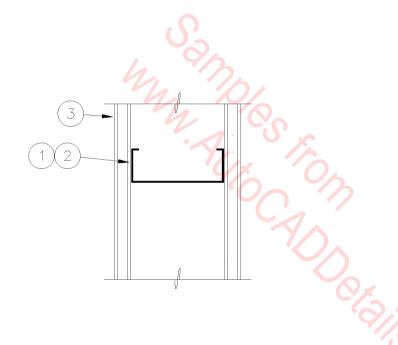
SCALE: 3/4' = 1'-0"





- 1. FLOOR & CEILING RUNNER (NOT SHOWN)
 WITH 1" HIGH RETURN LEGS,
 ANCHOR TO FLOOR AND CEILING WITH
 FASTENERS AT 24" O.C.
 2. METAL STUDS AT 24" O.C.
 3. 5/8" GYPSUM BOARD.
 4. CORNER BEAD.
 5. DOUBLE STUDS AT WALL END

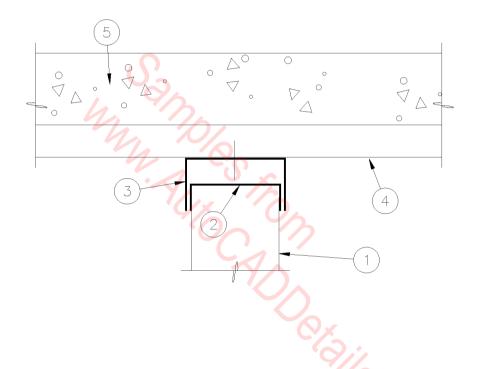
- 5. DOUBLE STUDS AT WALL END.



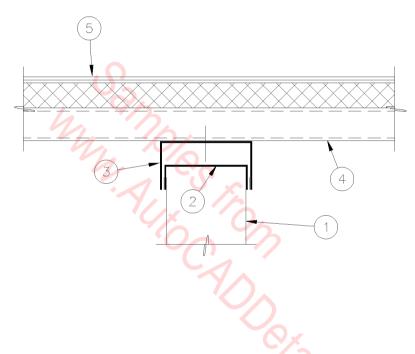
- 1. FLOOR & CEILING RUNNER (NOT SHOWN) WITH 1" HIGH RETURN LEGS, ANCHOR TO FLOOR AND CEILING WITH FASTENERS AT 24" O.C.
- 2. METAL STUDS AT 24" O.C.
- 3. 5/8" GYPSUM BOARD.

METAL STUD WALL

3" = 1'-0"

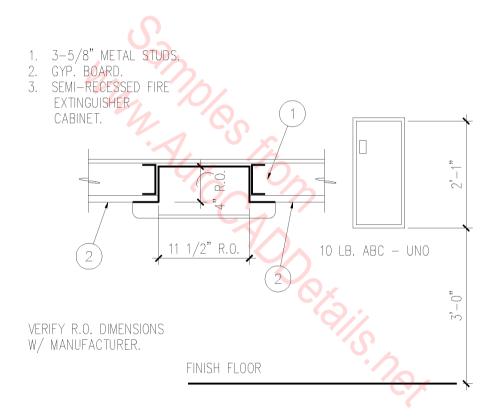


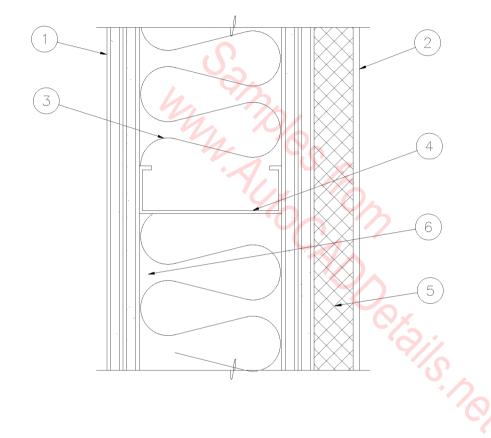
- 1. METAL STUDS AT 48" O.C. WALL SUPPORTS.
- 2. METAL STUD TOP TRACK.
- 3. METAL RUNNER WITH 2" LEG.
- 4. CONC. DOUBLE TEE.
- 5. CONC. FLOOR SLAB.



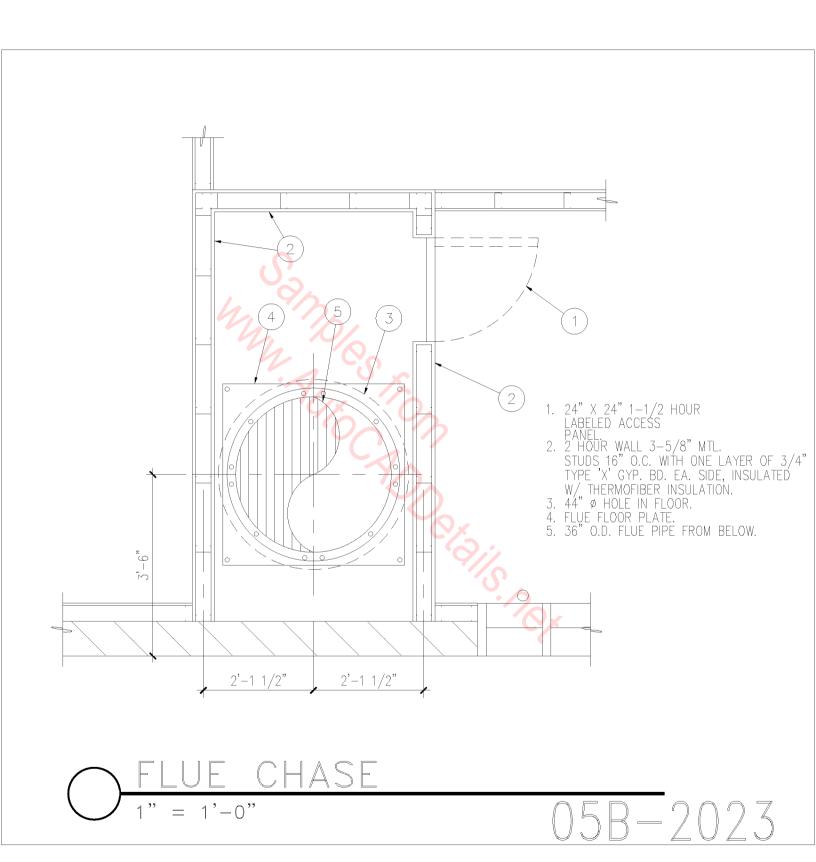
- 1. METAL STUDS AT 48" O.C. WALL SUPPORTS.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. ROOFING SYSTEM.

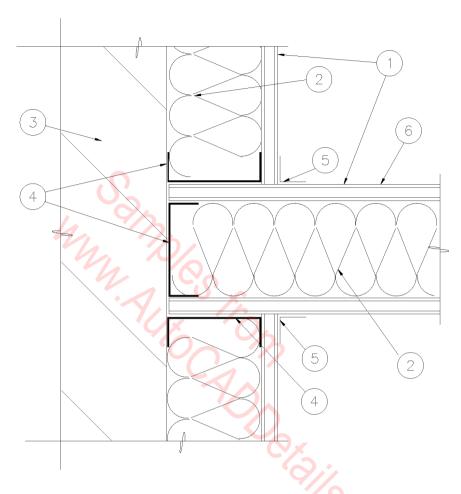
058-2020





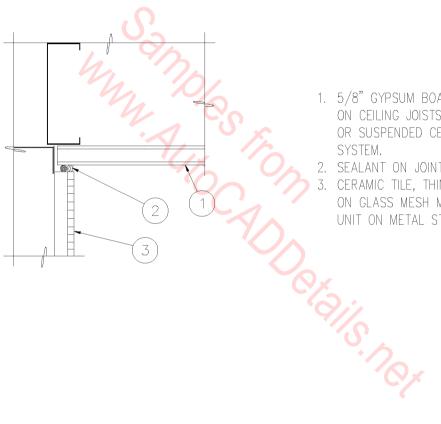
- 1. (2) LAYERS 5/8" TYPE "X" GÝPSUM BOARD.
- 2. SYNTHETIC STUCCO.
 3. 5 1/2" BATT INSULATION.
 4. 6" METAL STUDS.
- 5. 1 1/2" POLYSTYRENE INSULATION BOARD MECHANICALLY FASTENED AND GLUED.
- 6. 4 MIL. POLY VAPOR BARRIER.





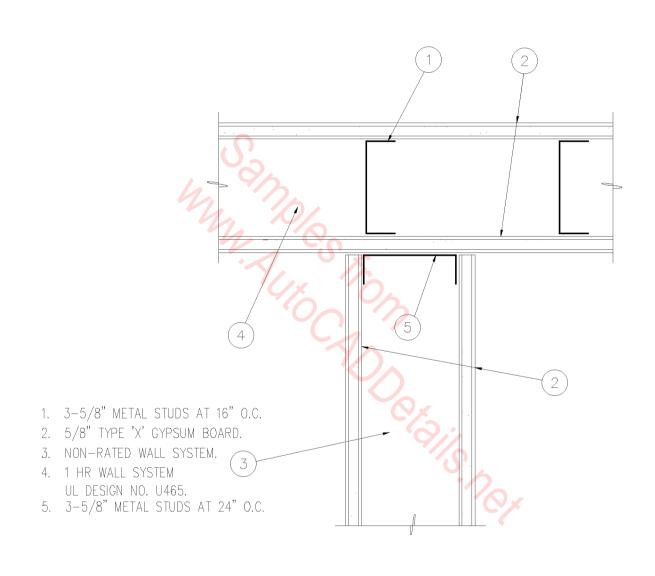
- 1. 5/8" TYPE 'X' GYPSUM BOARD.
- 2. INSULATION WHERE OCCURS.
- 3. MASONRY WALL.
- 4. 3-5/8" METAL STUDS
- 5. TAPE ALL JOINTS.
- 6. 1 HR CONSTRUCTION NON-BEARING WALL ASSEMBLY.
 UL DESIGN NO. U465.

 $\frac{\sqrt{5}}{05B} - 2024$

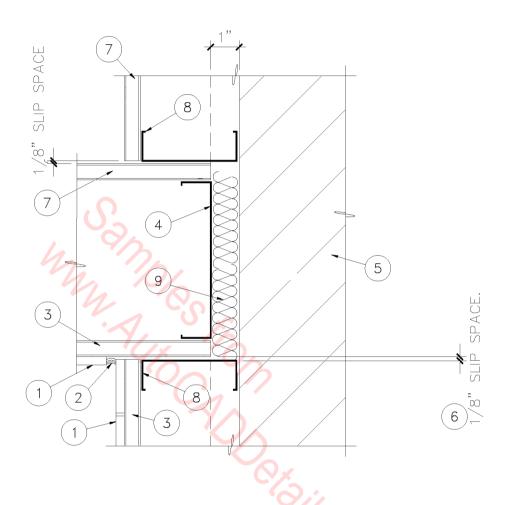


- 1. 5/8" GYPSUM BOARD ON CEILING JOISTS OR SUSPENDED CEILING SYSTEM.
- SEALANT ON JOINT FILLER.
 CERAMIC TILE, THIN SET ON GLASS MESH MORTAR UNIT ON METAL STUDS.

958-2025

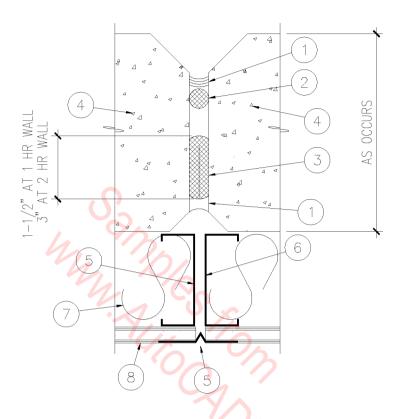


05B-2026



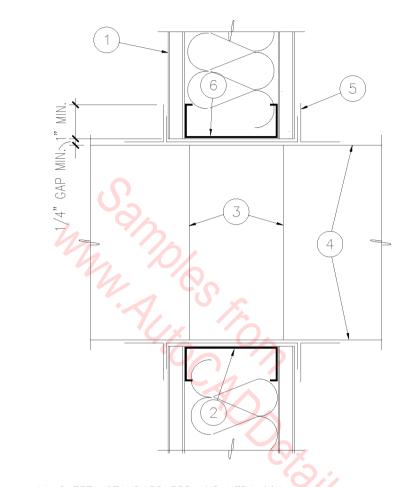
- CERAMIC TILE.

- 2. SEALANT.
 3. 5/8" MOISTURE-RESISTANT GYPSUM BOARD.
 4. METAL STUD. DO NOT ATTACH TO MASONRY WALL.
- MASONRY WALL.
- EXPANSION JOINT SPACE. 5/8" TYPE 'X' GYPSUM BOARD.
- 8. METAL STUDS.
 9. FIRE SAFING MATERIAL.



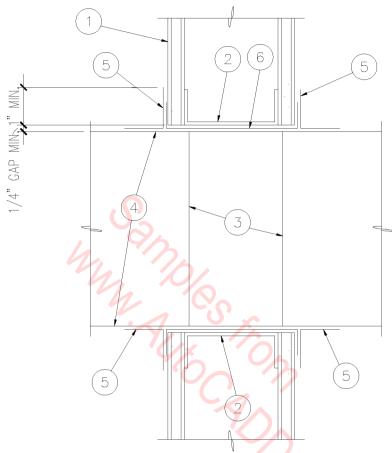
- 1. FIRE STOPPING SEALANT, 'TREMCO' DYMETRIC, POLYTREMDYNE TERPOLYMER.
- 2. JOINT FILLER POLYETHYLENE CLOSED-CELL FOAM, BY 'DOW CHEMICAL'.
- 3. 'CERABLANKET-FS' CERAMIC FIBER BLANKET INSULATION, BY 'JOHNS-MANVILLE'.
- 4. CONCRETE WALL.
- 5. METAL CONTROL JOINT.
- 6. METAL STUDS.
- 7. R-11 BATT INSULATION.
- 8. 5/8" GYPSUM BOARD.





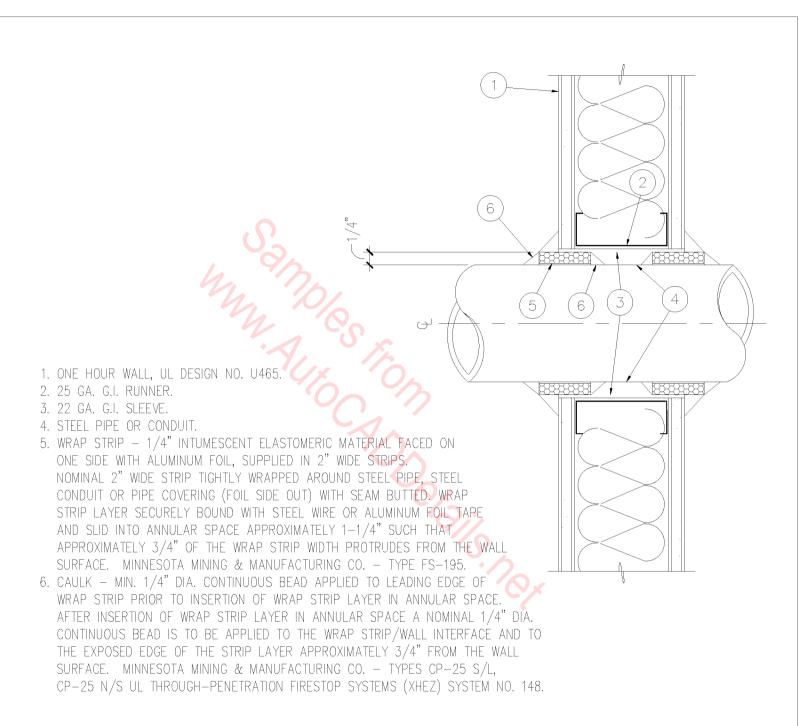
UL SAFETY STANDARD 555 AND NFPA 90A

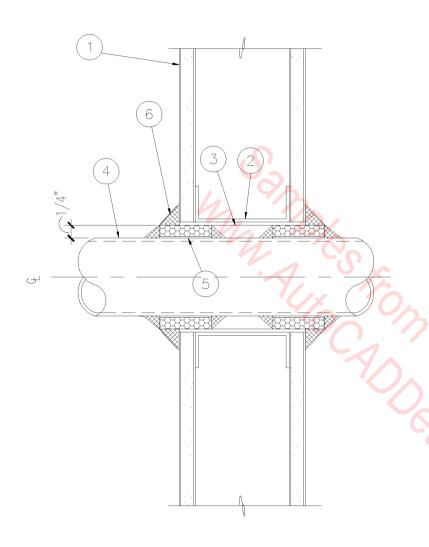
- 1. ONE HOUR WALL UL DESIGN NO. U465.
- 2. METAL RUNNER.
- 3. FIRE OR LEAKAGE (SMOKE) DAMPER. SEE MECHANICAL FOR TYPE AND LOCATION.
- 4. DAMPER SLEEVE SHALL NOT EXTEND MORE MORE THAN 9" ON THE OPERATOR/ACTUATOR SIDE.
 5. ANGLE 1-1/2" X 1-1/2" X 14 GAGE.
- 6. 22 GA. G. I. SLEEVE.



- UL SAFETY STANDARD 555 AND NFPA 90A
- 1. ONE HOUR WALL UBC 43-B, 15-1.1.
- 2. METAL RUNNER.
- 3. FIRE OR LEAKAGE (SMOKE) DAMPER.
 SEE MECHANICAL FOR TYPE AND
 LOCATION.
- 4. DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" BEYOND THE FIRE WALL AND NOT MORE THAN 9" ON THE OPERATOR/ACTUATOR SIDE.
- 5. ANGLE 1-1/2" X 1-1/2" X 14 GAGE.
- 6. 22 GA. G. I. SLEEVE.

 $O\frac{1}{3"} = 1'-0"$ $\frac{1}{3} = 1'-0"$ $\frac{1}{3} = 1'-0"$ $\frac{1}{3} = 1'-0"$





UL THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 148

- 1. ONE HOUR WALL, UBC 43-B, 15-1.1.
- 2. 25 GA. G.I. RUNNER.
- 3. 22 GA. G.I. SLEEVE.
- 4. STEEL PIPE OR CONDUIT.
- 5. WRAP STRIP 1/4" INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2" WIDE STRIPS. NOMINAL 2" WIDE STRIP TIGHTLY WRAPPED AROUND STEEL PIPE, STEEL CONDUIT OR PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROXIMATELY 1-1/4" SUCH THAT APPROXIMATELY 3/4" OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE.

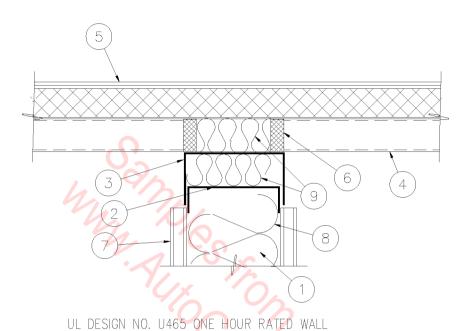
MINNESOTA MINING & MANUFACTURING CO. TYPE FS-195.

6. CAULK - MIN. 1/4" DIA. CONTINUOUS
BEAD APPLIED TO LEADING EDGE OF WRAP
STRIP PRIOR TO INSERTION OF WRAP
STRIP LAYER IN ANNULAR SPACE. AFTER
INSERTION OF WRAP STRIP LAYER IN
ANNULAR SPACE A NOMINAL 1/4" DIA.
CONTINUOUS BEAD IS TO BE APPLIED TO
THE WRAP STRIP / WALL INTERFACE AND
TO THE EXPOSED EDGE OF THE STRIP
LAYER APPROXIMATELY 3/4" FROM THE
WALL SURFACE.

MINNESOTA MINING & MANUFACTURING CO. TYPES CP-25 S/L, CP-25 N/S.

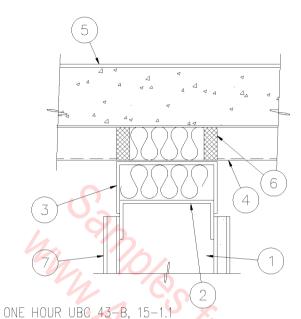
CONDUIT PENETRATION

3" = 1'-0"



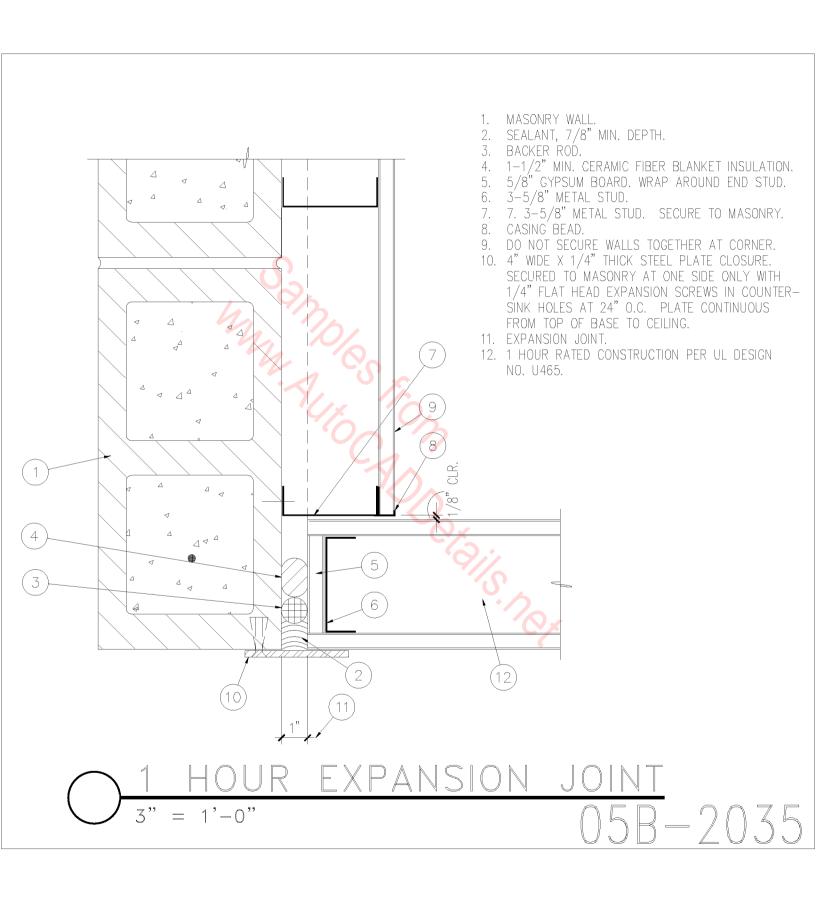
UL THROUGH-PENETRATION FIRESTOP SYSTEM DESIGN NO. 327

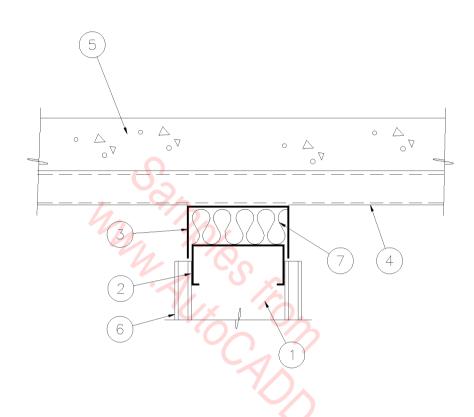
- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. ROOFING SYSTEM.
- 6. 1/2" 'TREMCO' FYRE-SIL SEALANT ON EACH SIDE OF FIRE SAFING.
- 7. 5/8" TYPE "X" GYPSUM BOARD.
- 8. R-11 3 1/2" BATT SOUND INSULATION WHERE APPLICABLE.
- 9. FIRE SAFING INSULATION.



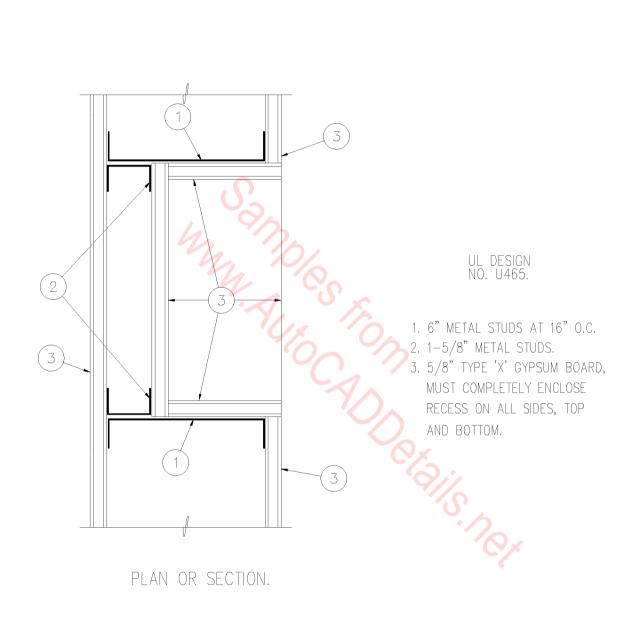
UL THROUGH-PENETRATION FIRESTOP SYSTEM DESIGN NO. 327

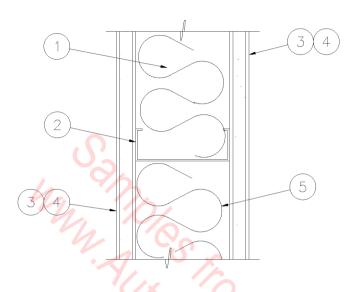
- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
 5. CLASS "A" ROOFING SYSTEM ON
- LIGHT WEIGHT CONCRETE.
 6. 1/2" 'TREMCO' FYRE—SIL SEALANT ON EACH SIDE OF FIRE SAFING MATERIAL.
 7. 5/8" TYPE "X" GYPSUM BOARD.
 8. FIRE SAFING INSULATION.





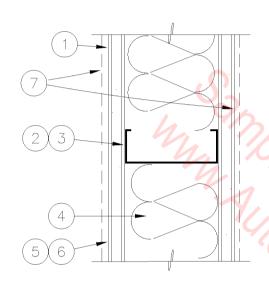
- 1. 3 5/8" METAL STUDS AT 16" O.C.
- 2. METAL RUNNER.
- 3. METAL RUNNER WITH 2" LEG.
- 4. METAL DECK.
- 5. LIGHT WEIGHT CONCRETE.
- 6. 5/8" TYPE "X" GYPSUM BOARD.
 7. FIRE SAFING MATERIAL.





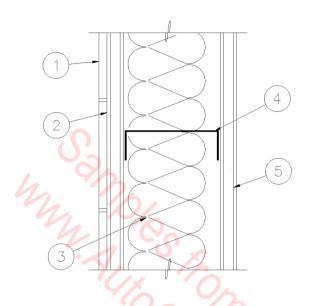
TWO HOUR RATED NONBEARING WALL ASSEMBLY, UL DESIGN NO. U491

- 1. FLOOR & CEILING RUNNER (NOT SHOWN) 25 GA. WITH 1" HIGH RETURN LEGS, 3-5/8" WIDE. ANCHOR TO FLOOR AND CEILING WITH FASTENERS AT 24" O.C.
- 2. 3-5/8" WIDE X 1-5/16 LEGS, 3/8" RETURN X 25 GA. METAL STUDS AT 16" O.C.
- 3. 3/4" TYPE "X" GYPSUM BOARD WITH 1" TYPE "S" NO. 6 DRYWALL SCREWS TO EACH STUD. SELF-TAPPING STEEL SCREWS AT 8" O.C. ALONG EDGES OF BOARD AND 12" O.C. IN THE FIELD. JOINTS STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
- 4. JOINT TAPE AND COMPOUND PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS IN CEILING SPACE, ADDITIONAL COMPOUND AND TEXTURE REQUIRED IN EXPOSED AREAS.
- 5. 3" 'THERMAFIBER SAFB' BATT INSULATION.



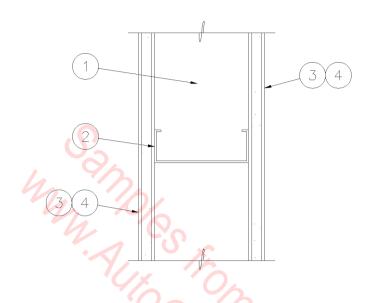
UL DESIGN NO. U465

- 1. ONE HOUR NONBEARING WALL ASSEMBLY UL DESIGN NO. U465.
- 2. FLOOR & CEILING RUNNER (NOT SHOWN) 25 GA. WITH 1" HIGH RETURN LEGS, 3-5/8" WIDE. ANCHOR TO FLOOR AND CEILING WITH FASTENERS AT 24" O.C.
- 3. 3-5/8" WIDE X 1-5/16 LEGS, 3/8" RETURN X 25 GA. METAL STUDS AT 16" O.C. 1-5/16" LEGS, 3/8" RETURN.
- 4. R-11, 3-1/2" SOUND BATT INSULATION, WHERE APPLICABLE.
- 5. 5/8" TYPE "X" GYPSUM BOARD WITH 1" TYPE "S" SELF-TAPPING STEEL SCREWS AT 8" O.C. ALONG EDGES OF BOARD AND 12" O.C. IN THE FIELD. JOINTS STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
- 6. JOINT TAPE AND COMPOUND PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS IN CEILING SPACE (FIRE TAPE), ADDITIONAL COMPOUND AND TEXTURE REQUIRED IN EXPOSED AREAS.
- 7. CERAMIC TILE ON GLASS MESH MORTAR UNIT IN LIEU OF GYPSUM BOARD WHERE APPLICABLE.



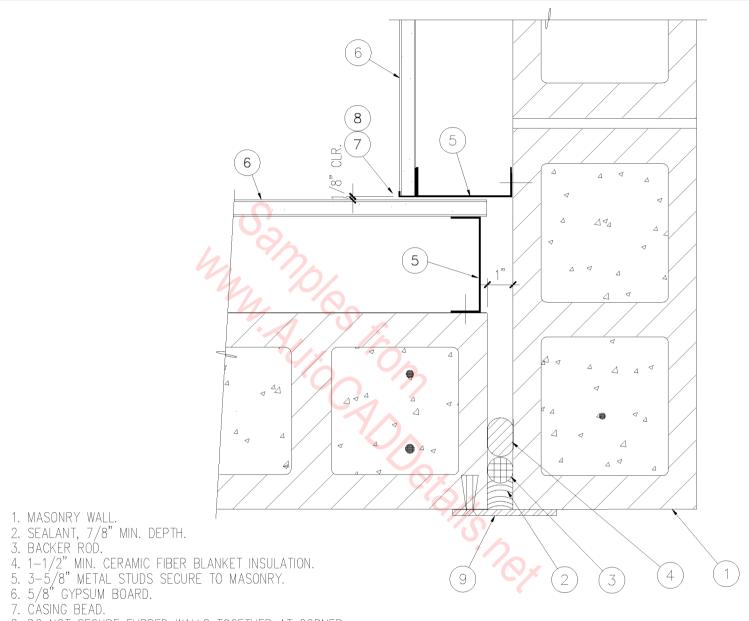
UL DESIGN NO. U445 SIMILAR

- 1. CERAMIC TILE.
- 2. 1/2" CEMENT BOARD ATTACHED TO STUDS WITH 1-5/8" LONG TYPE 'S' CORROSION RESISTANT SCREWS AT 6" O.C. TAPE JOINTS WITH GLASS FIBER MESH TAPE.
- 3. BATT INSULATION.
- 4. 3-5/8" METAL STUDS AT 16" O.C.
- 5. 5/8" TYPE 'X' GYPSUM BOARD ATTACHED TO STUDS WITH 1" LONG SELF-TAPPING SCREWS AT 8" O.C.



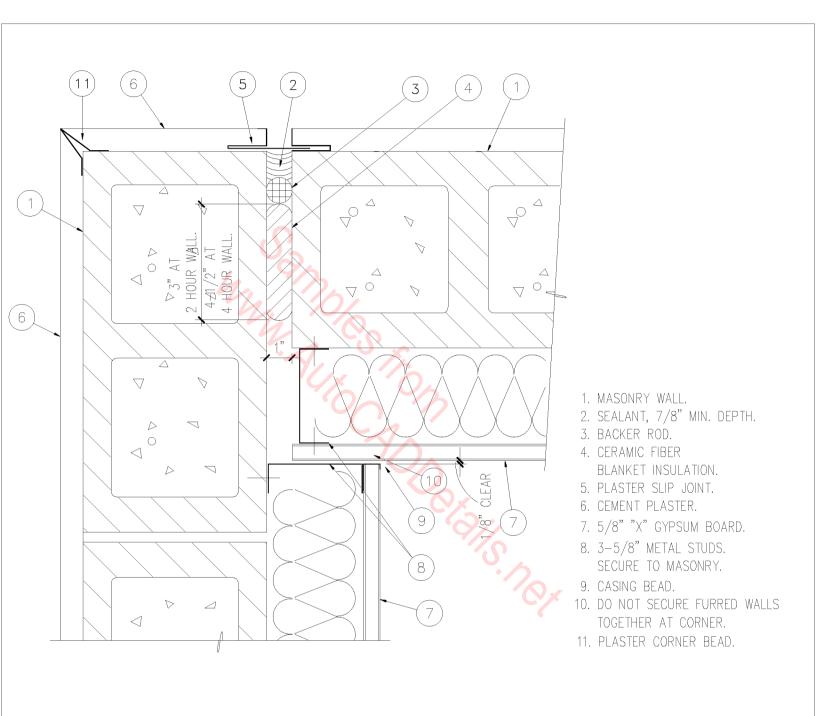
ONE HOUR RATED NONBEARING WALL ASSEMBLY, UBC 43-B, 15-1.1

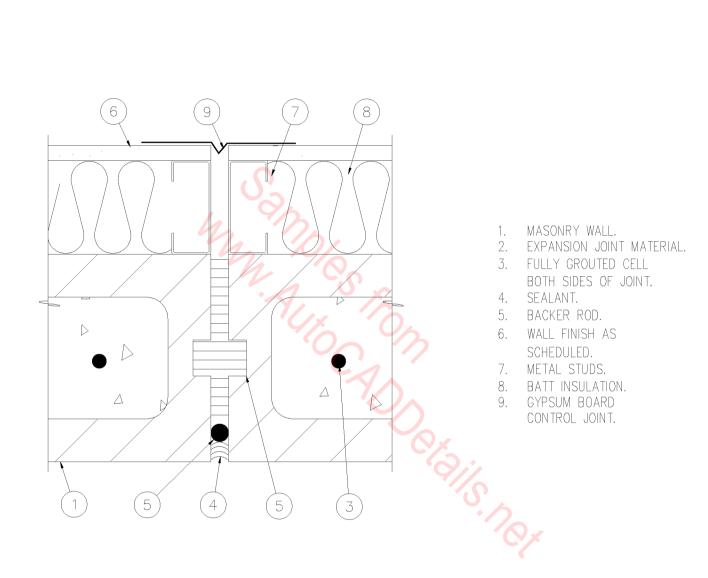
- 1. FLOOR & CEILING RUNNER (NOT SHOWN) 25 GA. WITH 1" HIGH RETURN LEGS, 3-5/8" WIDE. ANCHOR TO FLOOR AND CEILING WITH FASTENERS AT 24" O.C.
- 2. 3-5/8" WIDE X 1-5/16 LEGS, 3/8" RETURN X 25 GA. METAL STUDS AT 16" O.C.
- 3. 5/8" TYPE X GYPSUM BOARD WITH 1" TYPE S NO. 6 DRYWALL SCREWS TO EACH STUD. SELF-TAPPING STEEL SCREWS AT 8" O.C. ALONG EDGES OF BOARD AND 12" O.C. IN THE FIELD. JOINTS STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
- 4. JOINT TAPE AND COMPOUND PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS IN CEILING SPACE, ADDITIONAL COMPOUND AND TEXTURE REQUIRED IN EXPOSED AREAS, SEE SPECIFICATIONS AND ROOM FINISH SCHEDULE.

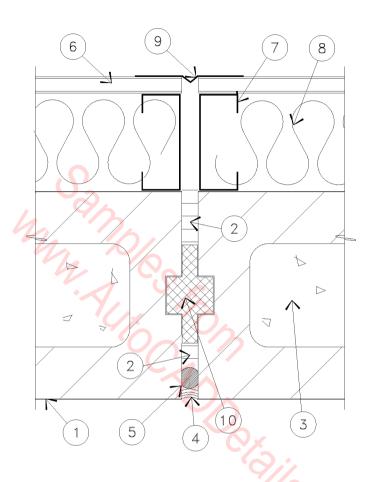


- 8. DO NOT SECURE FURRED WALLS TOGETHER AT CORNER.
 9. 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE. SECURED AT ONE SIDE ONLY WITH 1/4" FLAT HEAD EXPANSION SCREWS IN COUNTERSUNK HOLES AT 24" O.C. PLATE CONTINUOUS FROM TOP OF BASE TO CEILING.





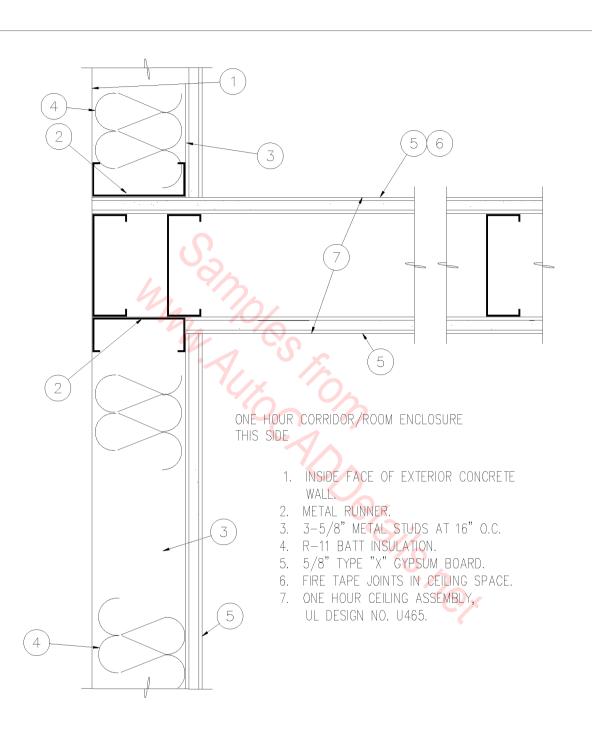




- 1. MASONRY.
- 2. COMPRESSIBLE JOINT MATERIAL.
- 3. FULLY GROUTED CELL BOTH SIDES OF JOINT.
- 4. SEALANT.
- 5. BACKER ROD.
- 6. WALL FINISH AS SCHEDULED.
- 7. METAL STUDS.
- 8. BATT INSULATION.
- 9. GYPSUM BOARD CONTROL JOINT.
- 10. PREMOLDED NEOPRENE GASKET.

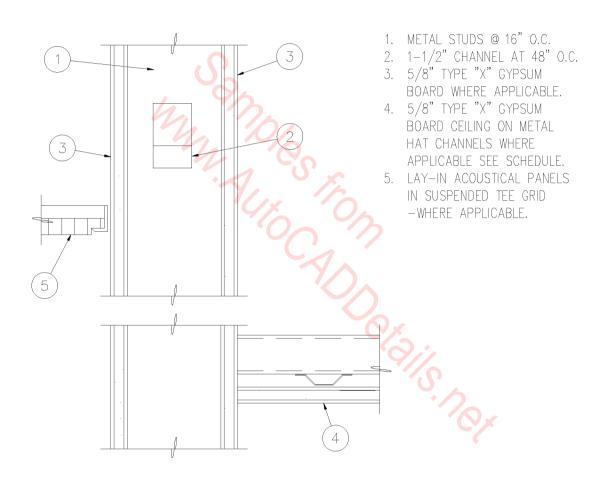
3" = 1'-0'

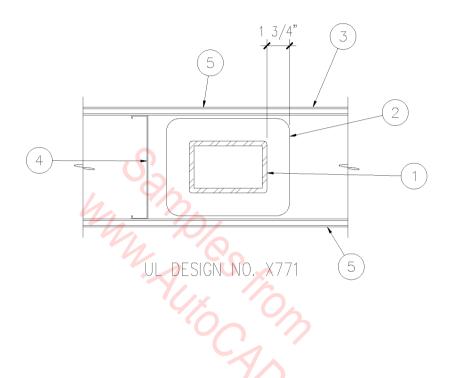
 $\overline{058} - 2045$



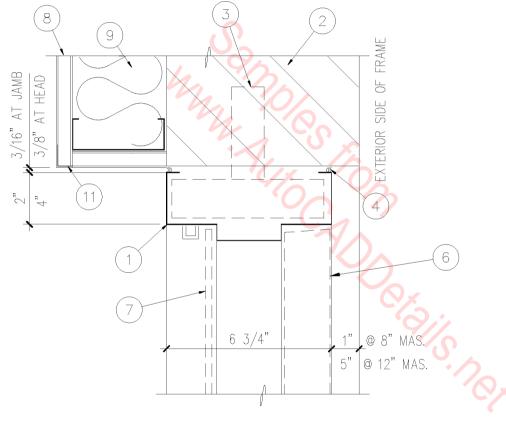
1 HOUR ENCLOSURE

3" = 1'-0"



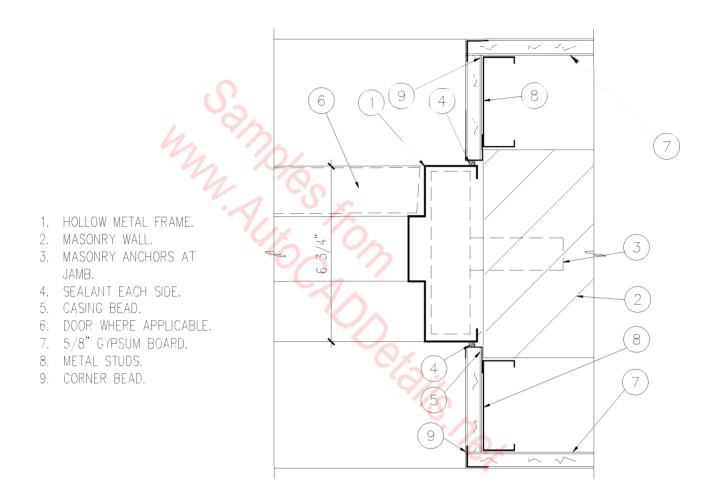


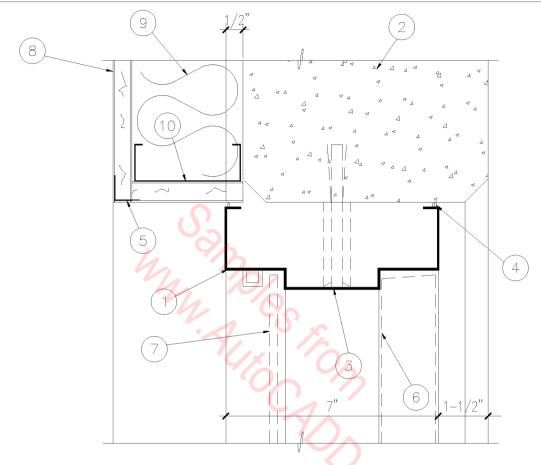
- 1. TUBE STEEL COLUMN.
- 2. CEMENTITIOUS MIXTURE APPLIED BY MIXING WATER AND SPRAYING IN ONE OR MORE COATS TO STEEL SURFACE WHICH MUST BE CLEAN AND FREE OF DIRT, LOOSE SCALE AND OIL. MINIMUM AVERAGE AND INDIVIDUAL DENSITY OF 15/14 PCF RESPECTIVELY. FOR METHOD OF DENSITY DETERMINATION, SEE DESIGN INFORMATION SECTION, PRECEDING THESE DESIGNS. APPLY 1-3/4 THICK UNIFORM COAT. ZONOLITE CONSTRUCTION PRODUCTS DIVISION, W. R. GRACE & CO. TYPE MK-6CBF.
- 3. 1 HOUR WALL.
- 4. 8" 25 GA. METAL STUDS AT 16" O.C.
- 5. 5/8" TYPE "X" GYPSUM WALLBOARD.



- 1. HOLLOW METAL FRAME.
- 2. MASONRY WALL.
- 3. MASONRY ANCHORS AT JAMB.
- 4. SEALANT EACH SIDE.
- 5. DOOR WHERE APPLICABLE.
- 6. GLASS WHERE APPLICABLE WITH REMOVABLE GLAZING STOPS.
- 7. 5/8" GYP. BOARD.
- 8. R-11 BATT INSULATION.
- 9. METAL STUDS.
- 10. CORNER BEAD.

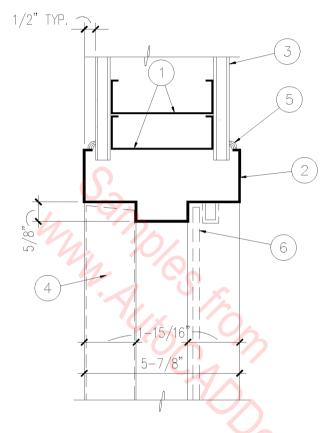
JAMB CONDITION - HEAD & WINDOW SILL SIMILAR





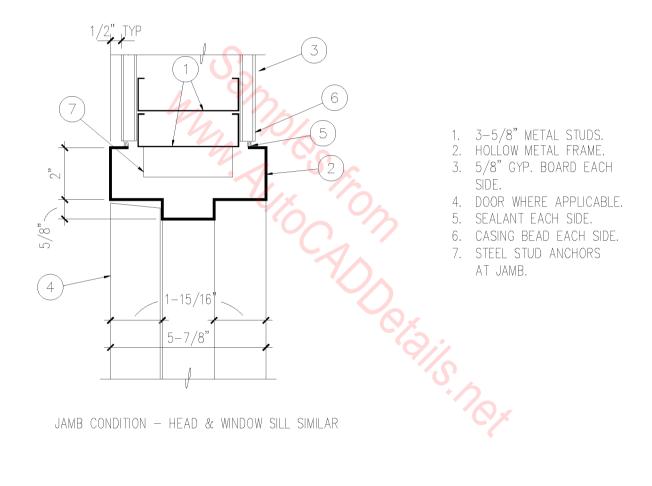
JAMB CONDITION - HEAD & WINDOW SILL SIMILAR

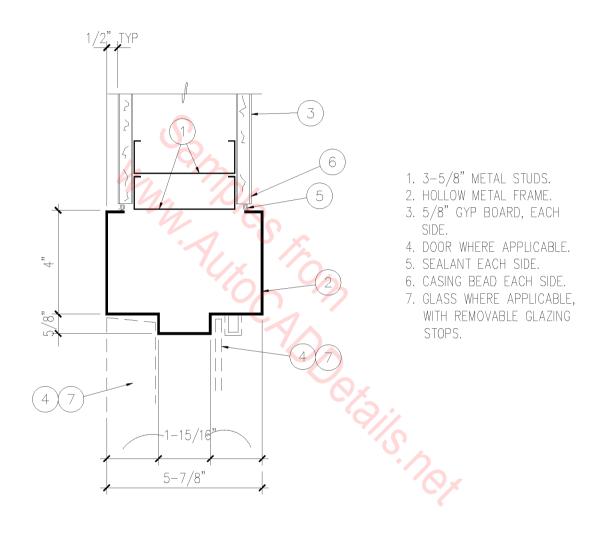
- 1. HOLLOW METAL FRAME, DIMPLE FRAMES AS REQUIRED.
- 2. CONCRETE WALL.
- 3. 3/8" BOLTS & EXPANSION SLEEVES, FILL HEADS AND GRIND SMOOTH.
- 4. SEALANT EACH SIDE.
- 5. CORNER BEAD.
- 6. DOOR WHERE APPLICABLE, SEE PLAN & SCHEDULE.
- 7. GLAZING WHERE APPLICABLE WITH REMOVABLE GLAZING STOPS.
- 8. 5/8" GYP. BOARD.
- 9. R-11 BATT INSULATION.
- 10. METAL STUDS AT 24" O.C.

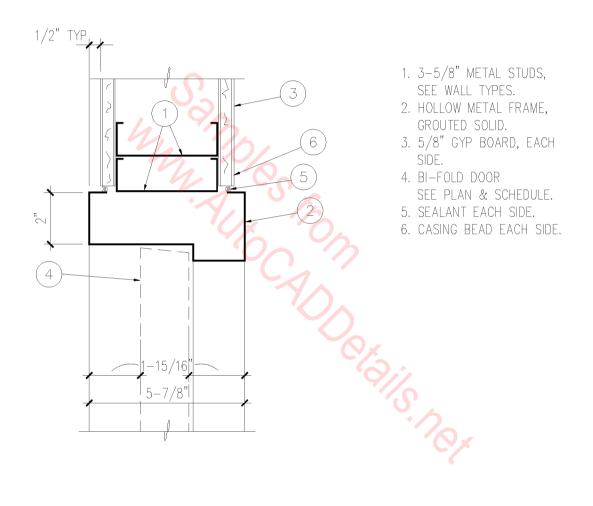


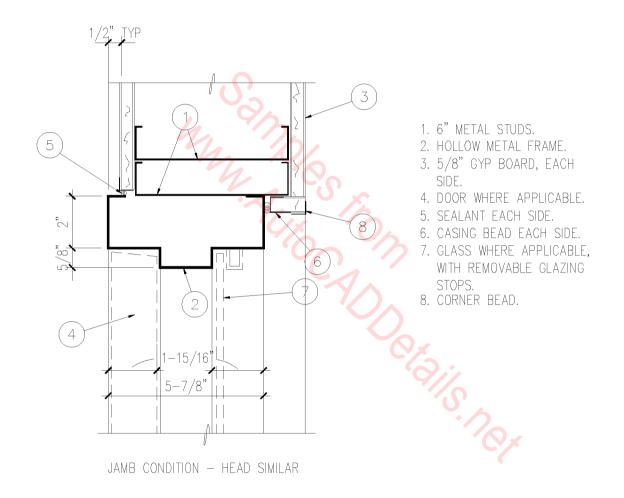
JAMB CONDITION - HEAD & WINDOW SILL SIMILAR

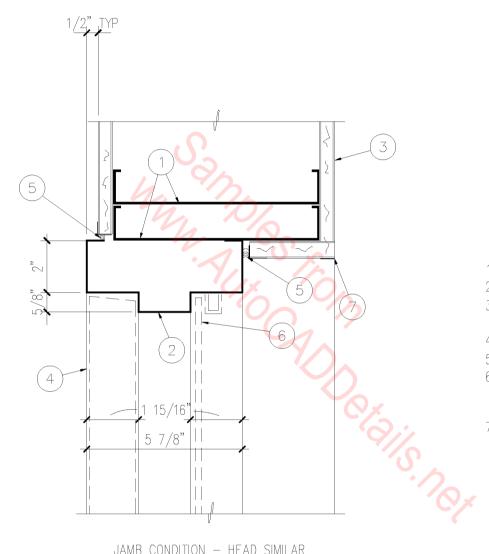
- 1. 3-5/8" METAL STUDS.
- 2. HOLLOW METAL FRAME.
- 3. 5/8" GYP. BOARD, EACH SIDE.
- 4. DOOR WHERE APPLICABLE.
- 5. SEALANT EACH SIDE.
- 6. GLAZING WHERE APPLICABLE, WITH REMOVABLE GLAZING STOPS.







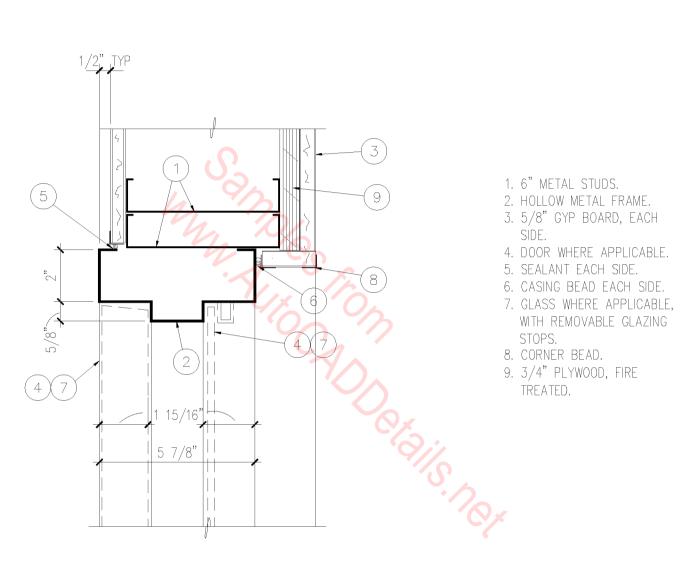




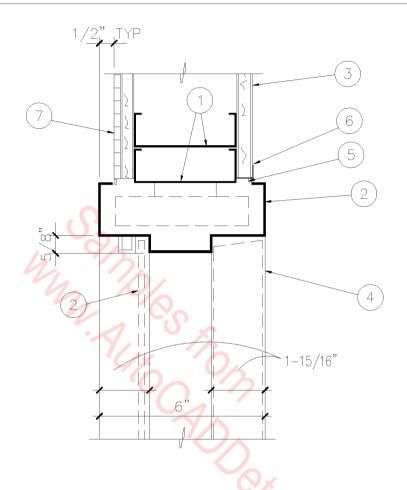
- 1. 8" METAL STUDS.
- 2. HOLLOW METAL FRAME.
- 3. 5/8" GYP. BOARD, EACH SIDE.
- 4. DOOR WHERE APPLICABLE.
- 5. CASING BEAD EACH SIDE.
- 6. GLASS WHERE APPLICABLE, WITH REMOVABLE GLAZING STOPS.
- 7. CORNER BEAD.

JAMB CONDITION - HEAD SIMILAR

0.058 - 2057

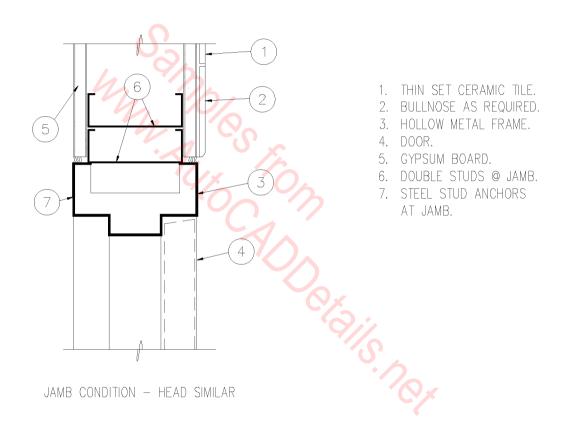


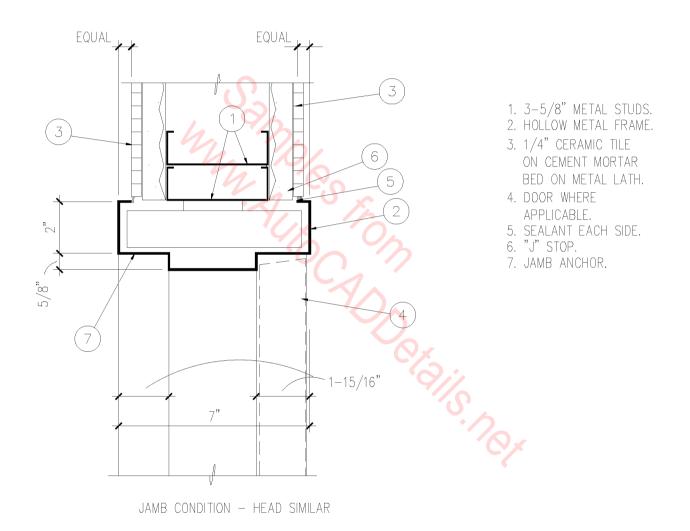
 ${\sf JAMB\ CONDITION\ -\ HEAD\ SIMILAR}$

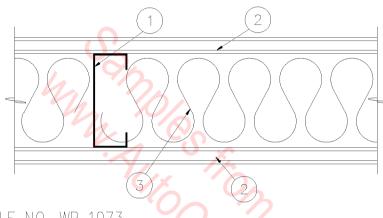


JAMB CONDITION - HEAD AND WINDOW SILL SIMILAR

- 1. 3-5/8" METAL STUDS.
- 2. GLASS WHERE APPLICABLE WITH REMOVABLE GLAZING STOPS.
- 3. 5/8" GYP. BOARD.
- 4. DOOR WHERE APPLICABLE.
- 5. SEALANT EACH SIDE.
- 6. CASING BEAD.
- 7. 1/4" CERAMIC TILE ON 7/16" GLASS MESH MORTAR UNIT.



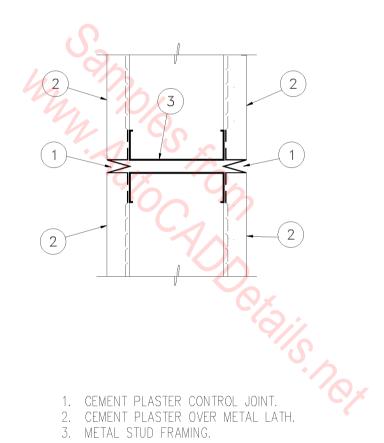


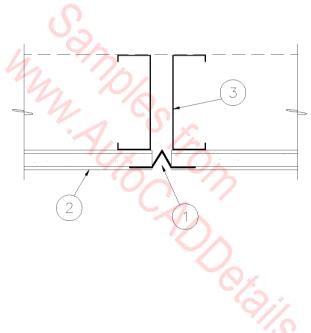


GA FILE NO. WP 1073 STC: 49

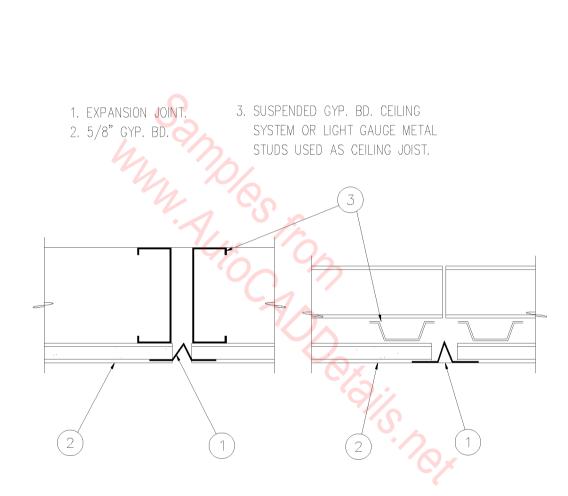
- 3-5/8" METAL STUDS AT 16" O.C.
 5/8" TYPE 'X' GYPSUM BOARD.
- 3. 3-1/2" ACOUSTICAL INSULATION BATTS.

NOTE: CONSTRUCT ACCORDING TO STANDARDS AND DETAILS FOR SOUND INSULATION FROM GYPSUM ASSOCIATION DESIGN MANUAL 12TH EDITION (GA-600-88)

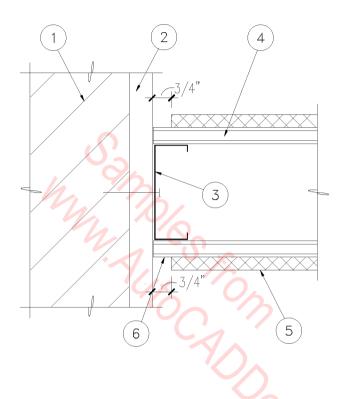




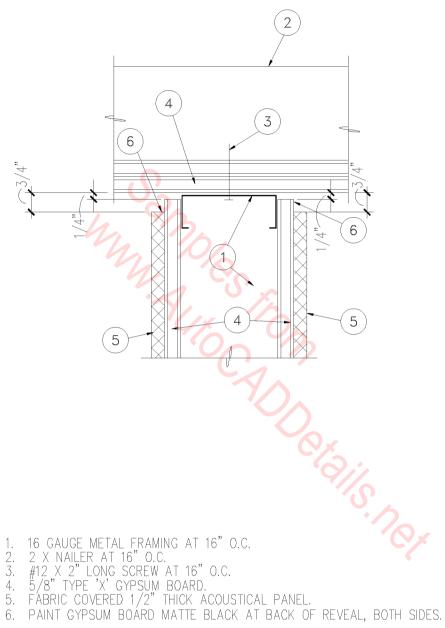
- 1. EXPANSION JOINT.
- 2. 5/8" GYPSUM BOARD.
- 3. LIGHT GAUGE METAL FRAMING IN WALL OR CEILING.

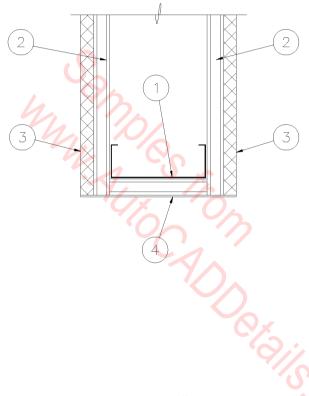




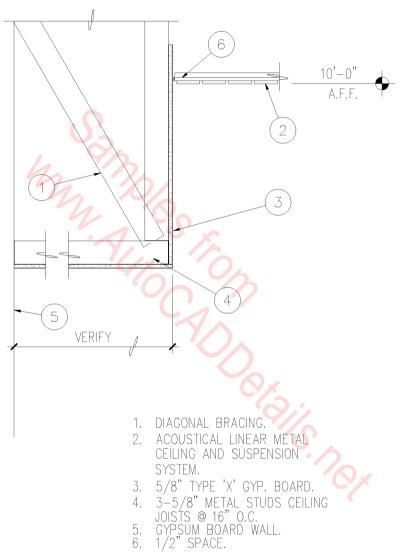


- 1. MASONRY WALL.
- 2. CEMENT PLASTER FINISH.
- 3. 16 GAUGE METAL FRAMING AT 24" O.C. SCREW INTO WALL AT 16" O.C. VERTICALLY.
- 4. 5/8" TYPE 'X' GYPSUM BOARD BOTH SIDES.
- 5. FABRIC COVERED 1/2" THICK ACOUSTICAL PANEL, SQUARE EDGED, BOTH SIDES.
- 6. PAINT GYPSUM BOARD MATTE BLACK AT BACK OF REVEAL BOTH SIDES.

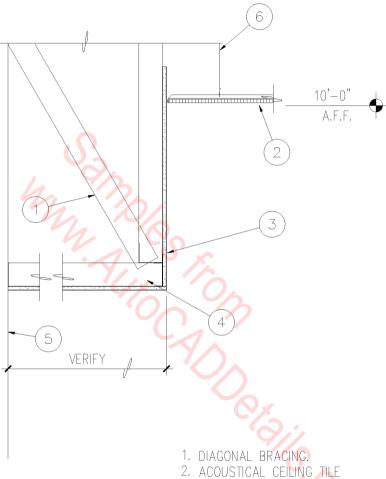




- 1. 16 GAUGE METAL FRAMING AT 24" O.C.
 2. 5/8" TYPE 'X' GYPSUM BOARD.
 3. FABRIC COVERED 1/2" THICK ACOUSTICAL PANEL, MITERED EDGE.
 4. FABRIC COVERED GYPSUM BOARD TO MATCH ACOUSTICAL PANEL.



 $\overline{)58-2069}$



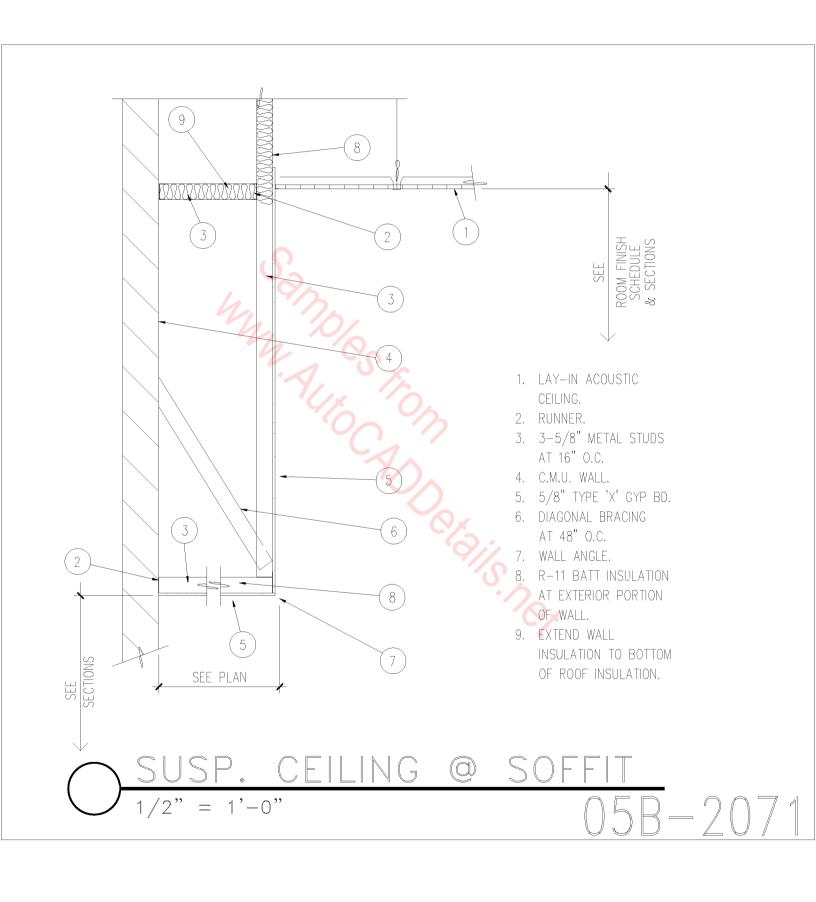
- AND SUSPENSION SYSTEM.

 3. 5/8" TYPE 'X' GYPSUM BOARD.

 4. 3-5/8" METAL STUDS @
 24" O.C.

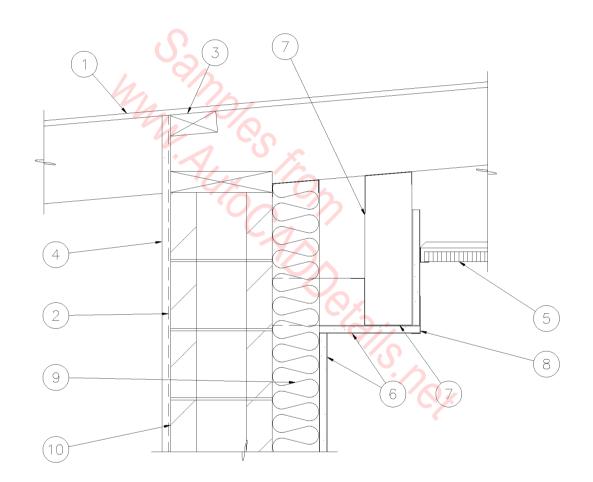
- 5. MASONRY OR GYPSUM BOARD WALL.
- 6. HANGER WIRE.

05B - 2070



- 1. EXISTING ROOF STRUCTURE.
- 2. METAL LATH.
- 3. 2x NAILER.
- 4. 5/8" CEMENT PLASTER APPLIED DÍRECTLY TO BLOCK.
- 5. LAY-IN CEILING PANEL. 6. 5/8" TYPE 'X' GYP. BOARD.

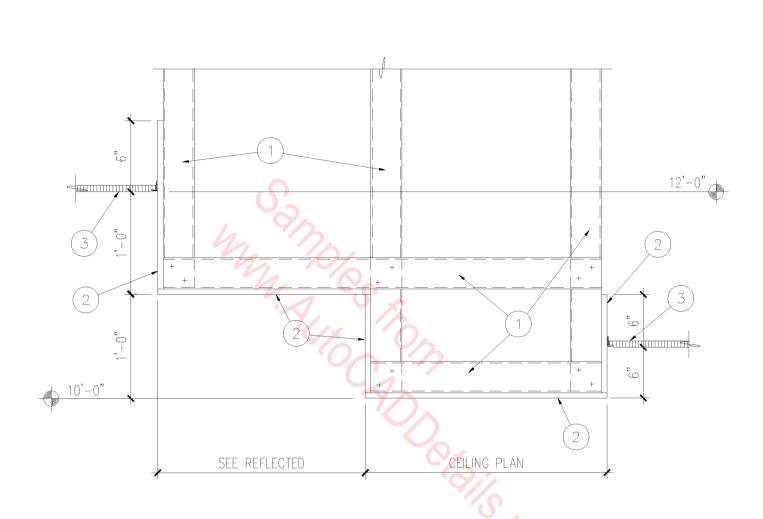
- 7. 3-5/8" METAL STUDS.
- 8. METAL CORNER BEAD.
 9. R-11 BATT INSULATION.
 10. MASONRY WALL.





1 1/2" = 1'-0"

05B-2072



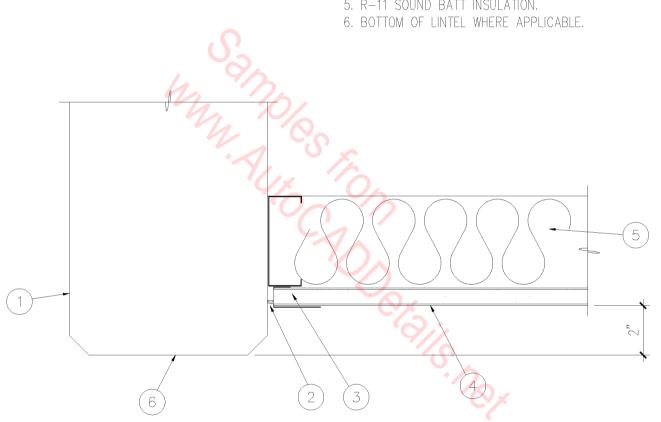
- 1. 3-5/8" METAL STUDS AT 24" O.C. SUSPEND FROM STRUCTURE ABOVE.
- 2. 5/8" TYPE 'X' GYP. BD.
- 3. LAY-IN ACOUSTICAL CEILING PANEL.

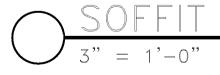
 $1 \ 1/2$ " = 1'-0"

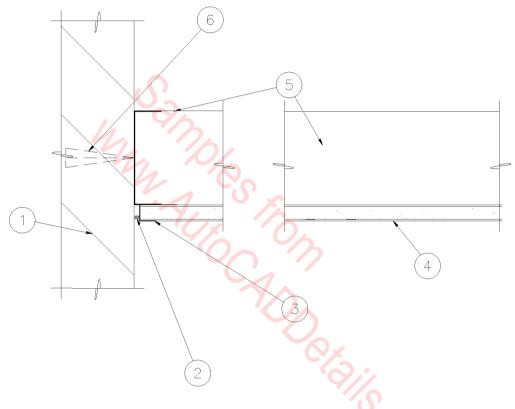
05B-2073

- 1. MASONRY OR CONCRETE WALL.
- 2. SEALANT.
- 3. CASING BEAD.

- 4. EXTERIOR FINISH SYSTEM ON 5/8" TYPE EXTERIOR GYPSUM SHEATHING ON 3-5/8" METAL STUDS AT 16" O.C. CEILING JOISTS.
- 5. R-11 SOUND BATT INSULATION.
- 6. BOTTOM OF LINTEL WHERE APPLICABLE.





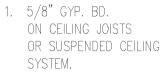


- 1. MASONRY WALL.
- 2. SEALANT.
- 3. CASING BEAD.
- 4. 5/8" GYP. BD. TYPE "X".
- 5. LIGHT GAUGE METAL STUD CEILING JOIST.
- 6. ATTACH AT 16" O.C.

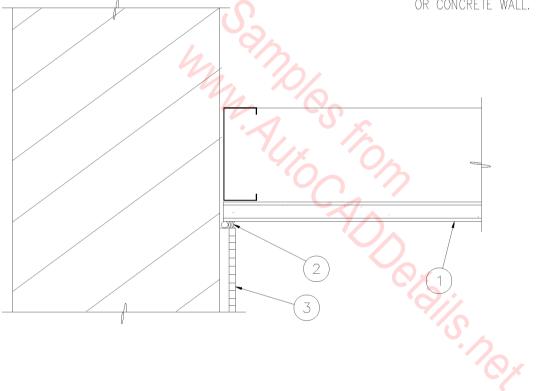
GYPSUM BOARD SOFFIT

3" = 1'-0"

05B - 2075



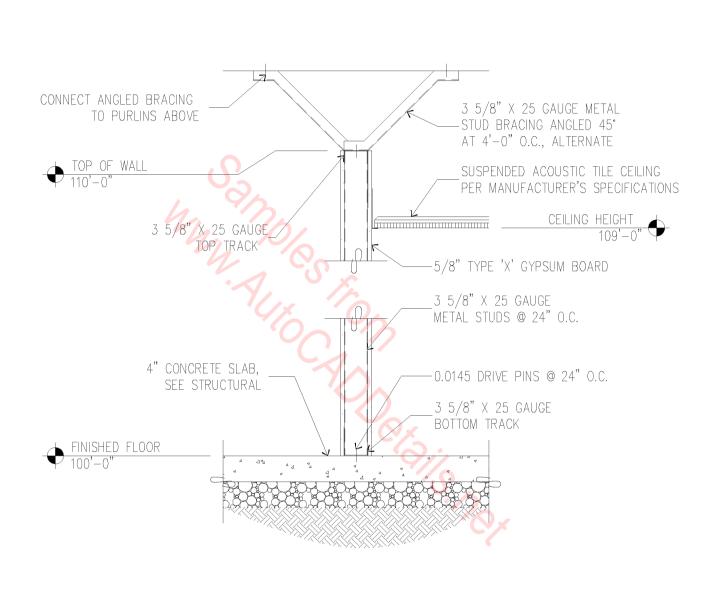
- 2. SEALANT ON JOINT FILLER.
- 3. CERAMIC TILE, THIN SET ON CEMENT MORTAR LEVELING COAT ON MASONRY OR CONCRETE WALL.



GYPSUM BOARD CEILING

3" = 1'-0'

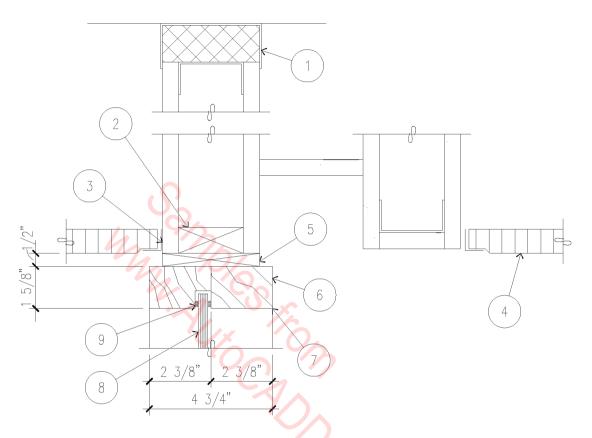
05B - 2076



INTERIOR WALL SECTION

3/4" = 1'-0'

0.5B - 2077



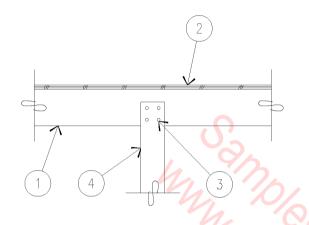
- 1. CONNECTION TO STRUCTURE ABOVE.
- 2. FIRE RESISTIVE TREATED BLOCKING.
- 3. METAL CEILING ANGLE.
- 4. SCHEDULED CEILING SYSTEM.
- 5. SOLID ALDER REVEAL BLOCKING. FINISH TO MATCH.
- 6. CHERRY WOOD HEAD.
- 7. EASED EDGE, TYPICAL.
- 8. 3/8" THICK TEMPERED GLASS (TINTED).
- 9. BLACK NEOPRENE GASKET.

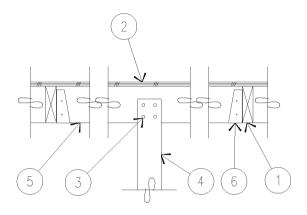
NOTE: ANCHOR WITH 'HILTI', OR EQUAL, POWER ACTUATED FASTENERS, I.C.B.O. #3288, @ 16" O.C.



3" = 1'-0"

0.5B - 20.78



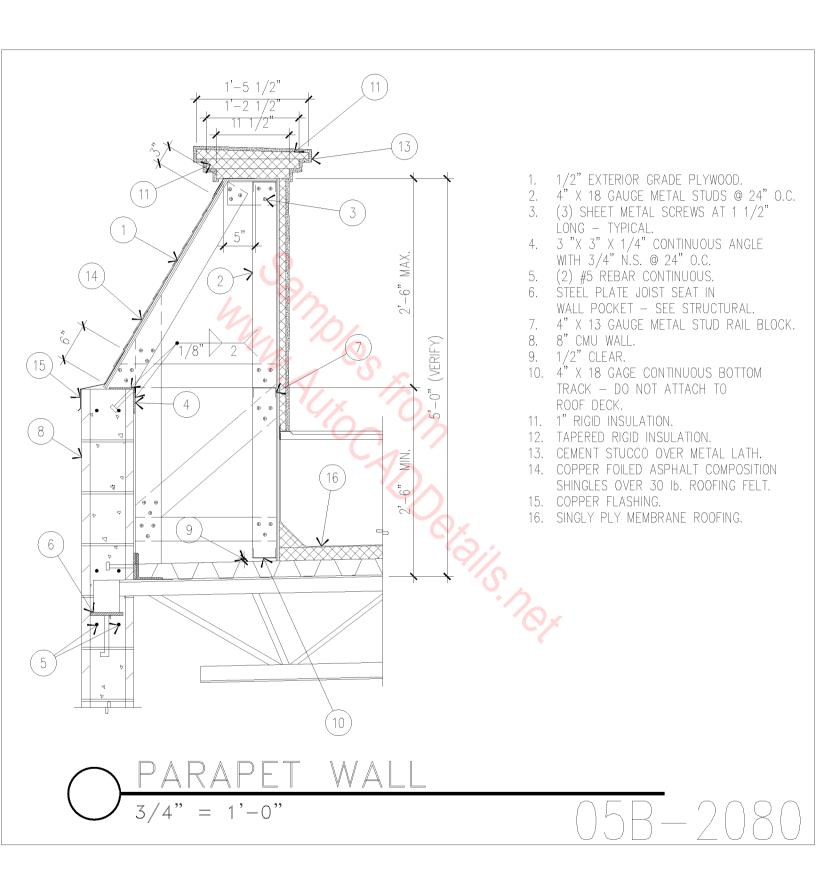


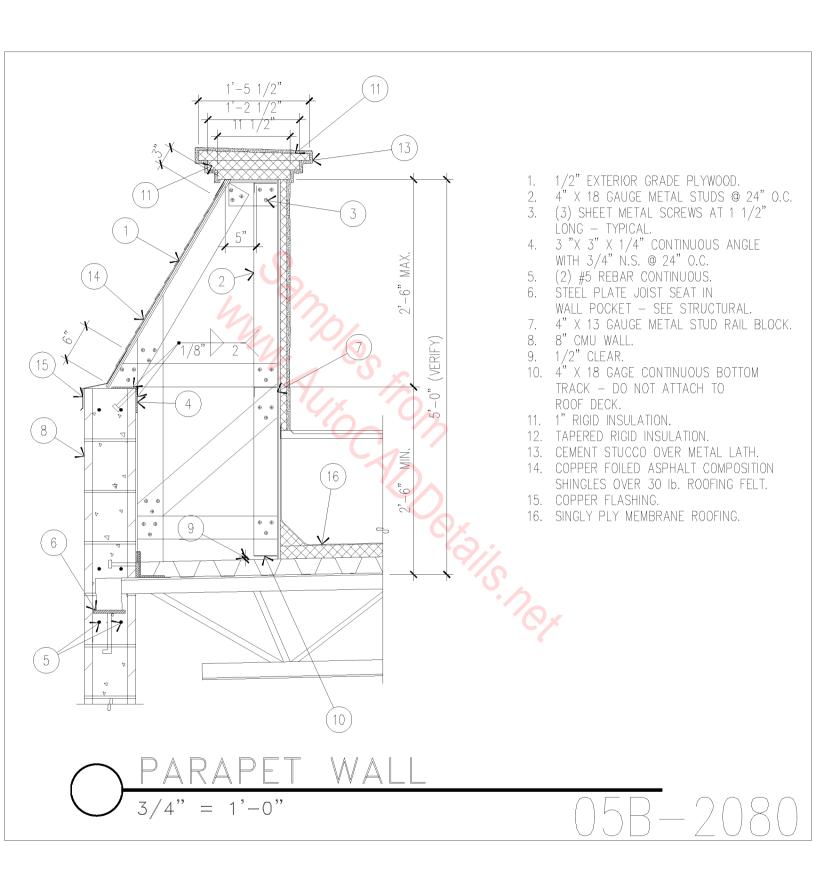
WALL PARALLEL TO STIFFENERS

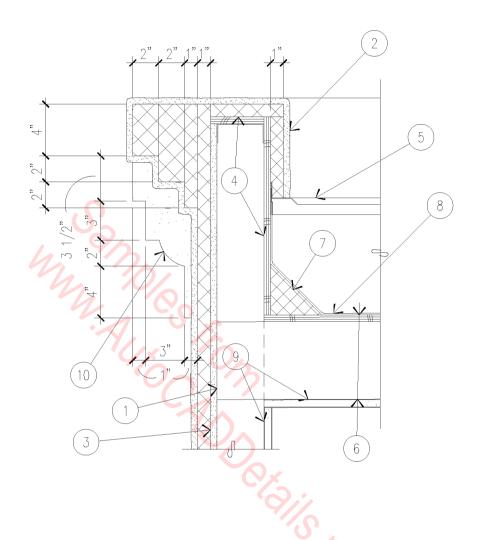
NOTE: AT SIMILAR CONDITION USE DIAGONAL BLOCKING IN SUR/L26 HANGERS.

- 1. 2 X 6 STIFFENER.
 2. ROOF DECK, SEE ARCHITECTURAL.
 3. (4) #12 X 1 1/2" SCREWS.
 4. METAL STUD FRAMING.

- 5. 2 X 6 BLOCKING.
- 6. SIMPSON F26N HANGER, OR EQUAL.

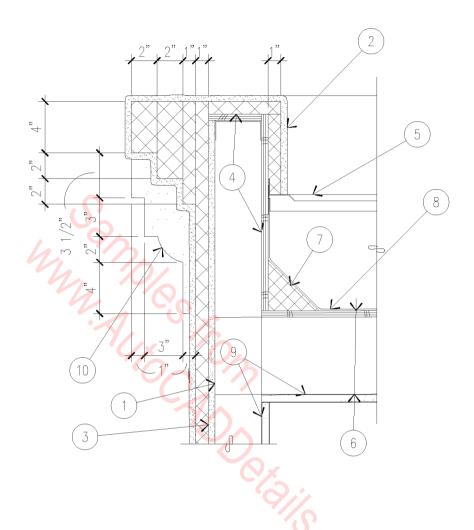






- 1. 3 5/8" METAL STUD WALL.
- 2. CEMENT STUCCO OVER METAL LATH AND RIGID INSULATION.
- 3. 1/2" GYPSUM SHEATHING.4. 1/2" STRUCTURAL 1 PLYWOOD.
- 5. METAL STUCCO STOP / DRIP EDGE.

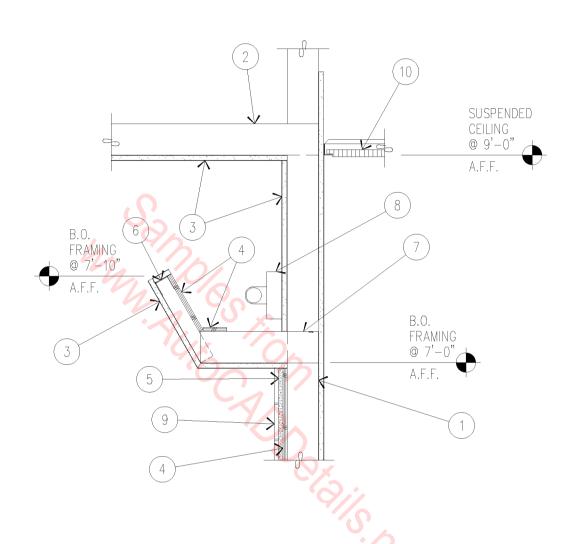
- 6. ROOF JOIST AND DECK -SEE STRUCTURAL.
- 7. 4" CANT STRIP.
- 8. SINGLE PLY MEMBRANE ROOF. 9. 5/8" GYPSUM BOARD.
- 10. RÍGID FOAM BRACKET BEYOND.



- 1. 3 5/8" METAL STUD WALL.
- 2. CEMENT STUCCO OVER METAL LATH AND RIGID INSULATION.
 3. 1/2" GYPSUM SHEATHING.
 4. 1/2" STRUCTURAL 1 PLYWOOD.
 5. METAL STUCCO STOP /

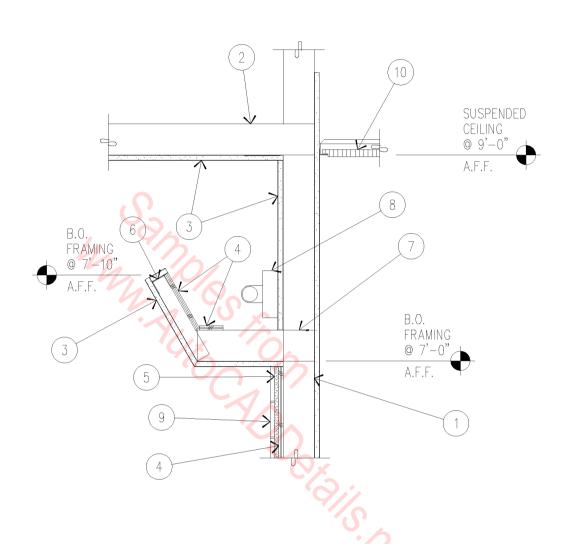
- DRIP EDGE.

- 6. ROOF JOIST AND DECK -SEE STRUCTURAL.
- 7. 4" CANT STRIP. 8. SINGLE PLY MEMBRANE ROOF.
- 9. 5/8" GYPSUM BOARD.
- 10. RÍGID FOAM BRACKET BEYOND.



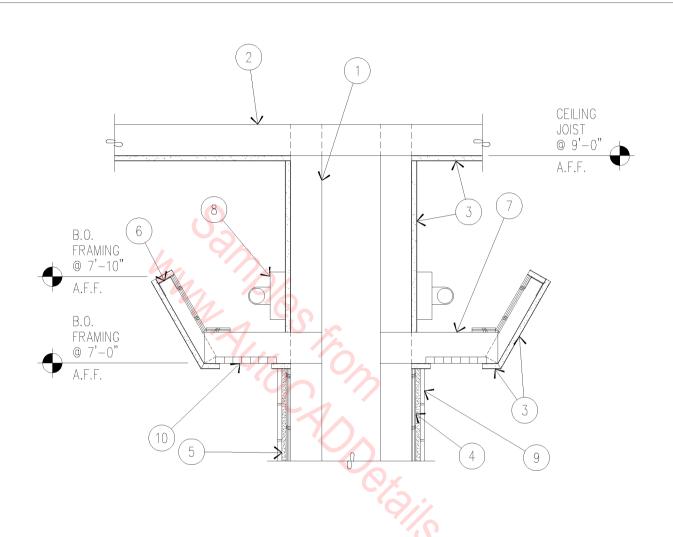
- 3 5/8" METAL STUD WALL.
 3 5/8" METAL STUD CEILING JOIST.
 5/8" GYPSUM BOARD.
 1/2" EXTERIOR GRADE OSB SHEATHING.
 1/2" CEMENTITIOUS BACKER BOARD.
- 6. 1 5/8" X 25 GA. METAL STUDS @ 24" O.C. 7. 3 5/8" X 18 GA. METAL STUDS @ 48" O.C.
- 8. FLUÓRESCENT STRIP LIGHT SEE ELECTRICAL.
- 9. CERAMIC TILE OVER THIN SET.
 10. LAY—IN ACOUSTICAL CEILING (AS OCCURS).





- 3 5/8" METAL STUD WALL.
 3 5/8" METAL STUD CEILING JOIST.
- 5/8" GYPSUM BOARD.
 1/2" EXTERIOR GRADE OSB SHEATHING.
 1/2" CEMENTITIOUS BACKER BOARD.
- 6. 1 5/8" X 25 GA. METAL STUDS @ 24" O.C. 7. 3 5/8" X 18 GA. METAL STUDS @ 48" O.C.
- 8. FLUORESCENT STRIP LIGHT SEE ELECTRICAL.
- 9. CERAMIC TILE OVER THIN SET.
- 10. LAY-IN ACOUSTICAL CEILING (AS OCCURS).

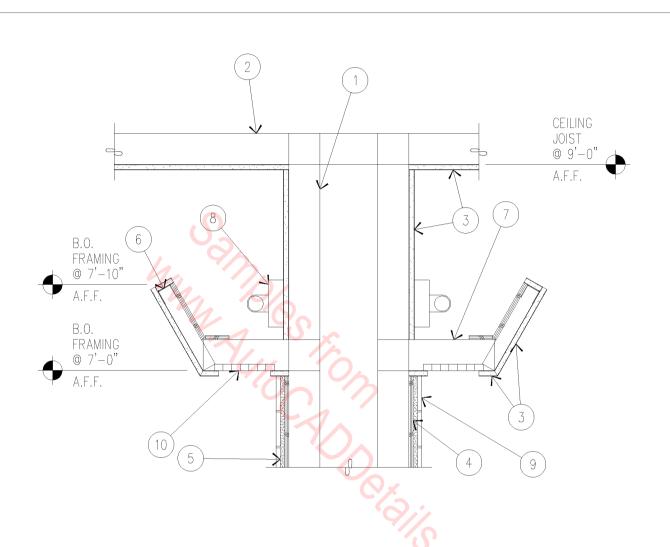




- 3 5/8" METAL STUD PLUMBING WALL. 3 5/8" METAL STUD CEILING JOIST. 5/8" GYPSUM BOARD. 1/2" EXTERIOR GRADE OSB SHEATHING. 1/2" CEMENTITIOUS BACKER BOARD.

- 1 5/8" X 25 GA. METAL STUDS @ 24" O.C. 3 5/8" X 18 GA. METAL STUDS @ 48" O.C. FLUORESCENT STRIP LIGHT SEE ELECTRICAL. 7.

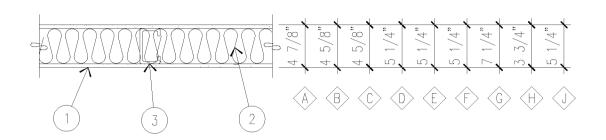
- 9. CERAMIC TILE OVER THIN SET. 10. 6" X 42" LAY—IN "EGG GRATE" DIFFUSER".



- 3 5/8" METAL STUD PLUMBING WALL. 3 5/8" METAL STUD CEILING JOIST.

- 2. 3 5/8" METAL STUD CEILING JOIST.
 3. 5/8" GYPSUM BOARD.
 4. 1/2" EXTERIOR GRADE OSB SHEATHING.
 5. 1/2" CEMENTITIOUS BACKER BOARD.

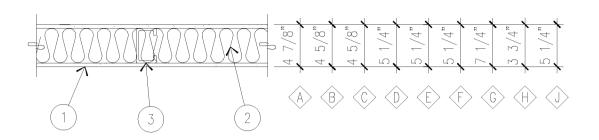
- 6. 1 5/8" X 25 GA. METAL STUDS @ 24" O.C.
 7. 3 5/8" X 18 GA. METAL STUDS @ 48" O.C.
 8. FLUORESCENT STRIP LIGHT SEE ELECTRICAL.
 9. CERAMIC TILE OVER THIN SET.
 10. 6" X 42" LAY—IN "EGG GRATE" DIFFUSER".



- 1. 5/8" GYPSUM BOARD DRYWALL
- EACH SIDE OF PARTITION, MINIMUM.
 3 1/2" SOUND INSULATION (2 1/2" AT TYPE 'H' ONLY), FRICTION FIT.
- 3. 25 STANDARD GAUGE METAL STUDS AT 24" O.C., UNLESS NOTED OTHERWISE.

NOTE: MANUFACTURER'S SOUND TRANSMISSION COEFFICIENT (S.T.C.): WITH INSULATION AND PERIMETER CÀULKEÓ = $46 \pm S.T.C.$

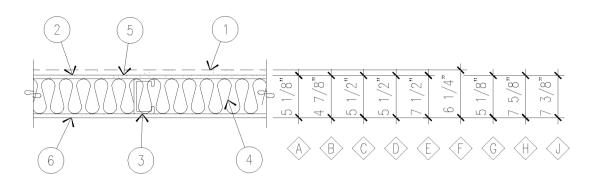
WALL <u>TYPE</u>	STUD <u>SIZE</u>	STUD <u>GAUGE</u>	STUD SPACING	GYPSUM <u>BOARD TYPE</u>	<u>FIRE RATING</u>
A	3 5/8"	STANDARD	16" O.C.	STANDARD	INCOMBUSTIBLE
$\langle B \rangle$	3 3/8"	STANDARD	24" O.C.	TYPE 'X'	ONE HOUR
$\langle \hat{c} \rangle$	3 3/8"	STANDARD	24" O.C.	STANDARD	INCOMBUSTIBLE
$\langle \hat{D} \rangle$	4"	STANDARD	24" O.C.	STANDARD	INCOMBUSTIBLE
É	4"	STANDARD	16" O.C.	STANDARD	INCOMBUSTIBLE
(F)	4"	STANDARD	24" O.C.	TYPE 'X'	ONE HOUR
$\langle \hat{G} \rangle$	6"	16 GAUGE	24" O.C.	STANDARD	INCOMBUSTIBLE
$\langle H \rangle$	2 1/2"	STANDARD	24" O.C.	STANDARD	INCOMBUSTIBLE
$\langle \hat{J} \rangle$	4"	STANDARD	16" O.C.	TYPE 'X'	ONE HOUR



- 5/8" GYPSUM BOARD DRYWALL EACH SIDE OF PARTITION, MINIMUM. 3 1/2" SOUND INSULATION (2 1/2" AT TYPE 'H' ONLY), FRICTION FIT.
- 3. 25 STANDARD GAUGE METAL STUDS AT 24" O.C., UNLESS NOTED OTHERWISE.

NOTE: MANUFACTURER'S SOUND TRANSMISSION COEFFICIENT (S.T.C.): WITH INSULATION AND PERIMETER CÀULKED = $46 \pm S.T.C.$

WALL <u>TYPE</u>	STUD <u>SIZE</u>	STUD <u>GAUGE</u>	STUD <u>SPACING</u>	GYPSUM <u>BOARD TYPE</u>	FIRE RATING
$\langle A \rangle$	3 5/8"	STANDARD	16" O.C.	STANDARD	INCOMBUSTIBLE
$\langle B \rangle$	3 3/8"	STANDARD	24" O.C.	TYPE 'X'	ONE HOUR
$\langle \hat{c} \rangle$	3 3/8"	STANDARD	24" 0.0.	STANDARD	INCOMBUSTIBLE
$\langle \hat{\mathbb{D}} \rangle$	4"	STANDARD	24" O.C.	STANDARD	INCOMBUSTIBLE
(E)	4"	STANDARD	16" O.C.	STANDARD	INCOMBUSTIBLE
F	4"	STANDARD	24" O.C.	TYPE 'X'	ONE HOUR
$\langle G \rangle$	6"	16 GAUGE	24" O.C.	STANDARD	INCOMBUSTIBLE
$\langle H \rangle$	2 1/2"	STANDARD	24" O.C.	STANDARD	INCOMBUSTIBLE
$\langle j \rangle$	4"	STANDARD	16" O.C.	TYPE 'X'	ONE HOUR



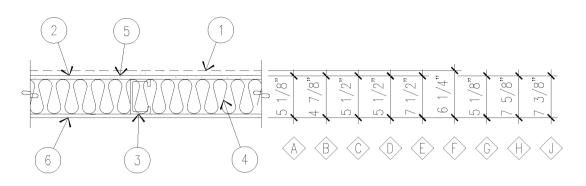
- 1. TWO LAYERS DRYWALL AT TYPE 'F'.
- 2. ONE LAYER OF GYPSUM DRYWALL, TYPICAL.
- 3. STEEL STUDS AT 16" O.C., MAXIMUM (12" O.C. AT CERAMIC TILE).
- 4. 3 1/2" SOUND INSULATION, FRICTION FIT, TYPE RII, WITHOUT PAPER BACKING.
- 5. CERAMIC TILE ON 1/2" TYPE 'X' WATER-PROOF GYPSUM BOARD WHERE SCHED-ULED - SEE FINISH SCHEDULE.
- 6. 3.4 LB. METAL LATH AND CEMENT PLASTER ON EXTERIOR, 2.5 LB. METAL LATH AND GYPSUM PLASTER ON INTERIOR.

WALL <u>TYPE</u>	STUD <u>SIZE</u>	STUD <u>GAUGE</u>	STUD <u>SPACING</u>	GYPSUM BOARD TYPE	GYPSUM <u>BOARD LAYERS</u>	PLASTER <u>THICKNESS</u>	<u>FIRE RATING</u>
$\langle \hat{\mathbb{A}} \rangle$	3 5/8"	16 GAUGE	16" O.C.	5/8" STANDARD	ONE	7/8"	INCOMBUSTIBLE
$\langle \hat{B} \rangle$	3 3/8"	16 GAUGE	16" O.C.	TYPE 'X'	ONE	7/8"	ONE HOUR
⟨Ĉ⟩	4"	16 GAUGE	16" O.C.	TYPE 'X'	ONE	7/8"	ONE HOUR
\bigcirc	4"	16 GAUGE	16" O.C.	5/8" STANDARD	ONE	7/8"	INCOMBUSTIBLE
É	6"	16 GAUGE	12" O.C.	5/8" STANDARD	ONE	7/8"	INCOMBUSTIBLE
F	4"	16 GAUGE	16" O.C.	TYPE 'X'	TWO	1"	TWO HOUR
⟨G⟩	3 5/8"	16 GAUGE	16" O.C.	EXTERIOR PANELS	TWO	7/8"	INCOMBUSTIBLE
$\langle H \rangle$	6"	16 GAUGE	16" O.C.	TYPE 'X'	TWO	1"	TWO HOUR
$\langle j \rangle$	6"	16 GAUGE	16" O.C.	1/2" STANDARD	ONE	7/8"	INCOMBUSTIBLE

COMPOSITE WALL — DRYWALL AND PLASTER

N.T.S.

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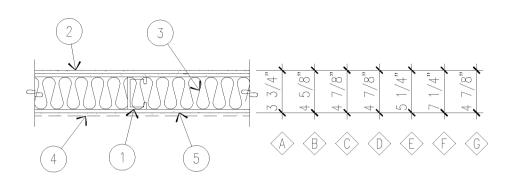


- 1. TWO LAYERS DRYWALL AT TYPE 'F'.
- 2. ONE LAYER OF GYPSUM DRYWALL, TYPICAL.
- 3. STEEL STUDS AT 16" O.C., MAXIMUM (12" O.C. AT CERAMIC TILE).
- 4. 3 1/2" SOUND INSULATION, FRICTION FIT, TYPE RII, WITHOUT PAPER BACKING.
- 5. CERAMIC TILE ON 1/2" TYPE 'X' WATER— PROOF GYPSUM BOARD WHERE SCHED— ULED — SEE FINISH SCHEDULE.
- 6. 3.4 LB. METAL LATH AND CEMENT PLASTER ON EXTERIOR, 2.5 LB. METAL LATH AND GYPSUM PLASTER ON INTERIOR.

WALL <u>TYPE</u>	STUD <u>SIZE</u>	STUD <u>GAUGE</u>	STUD <u>SPACING</u>	GYPSUM BOARD TYPE	GYPSUM BOARD LAYERS	PLASTER <u>THICKNESS</u>	<u>fire rating</u>
$\langle \hat{\mathbb{A}} \rangle$	3 5/8"	16 GAUGE	16" O.C.	5/8" STANDARD	ONE	7/8"	INCOMBUSTIBLE
$\langle \hat{B} \rangle$	3 3/8"	16 GAUGE	16" O.C.	TYPE 'X'	ONE	7/8"	ONE HOUR
⟨Ĉ⟩	4"	16 GAUGE	16" O.C.	TYPE 'X'	ONE	7/8"	ONE HOUR
\bigcirc	4"	16 GAUGE	16" O.C.	5/8" STANDARD	ONE	7/8"	INCOMBUSTIBLE
(E)	6"	16 GAUGE	12" O.C.	5/8" STANDARD	ONE	7/8"	INCOMBUSTIBLE
F	4"	16 GAUGE	16" O.C.	TYPE 'X'	TWO	1"	TWO HOUR
⟨G⟩	3 5/8"	16 GAUGE	16" O.C.	EXTERIOR PANELS	TWO	7/8"	INCOMBUSTIBLE
$\langle H \rangle$	6"	16 GAUGE	16" O.C.	TYPE 'X'	TWO	1"	TWO HOUR
$\langle j \rangle$	6"	16 GAUGE	16" O.C.	1/2" STANDARD	ONE	7/8"	INCOMBUSTIBLE

COMPOSITE WALL — DRYWALL AND PLASTER

N.T.S.



GYPSUM ASSOCIATION SOUND TRANSFER COEFFICIENT (S.T.C.):

5/8"

5/8" GYPSUM BOARD - WITH INSULATION: 50±, WITHOUT INSULATION: 45± 1/2" GYPSUM BOARD - WITH INSULATION: 45±, WITHOUT INSULATION: 40±

- 1. METAL STUDS, STANDARD GAUGE, AT 24" O.C., TYPICAL, UNLESS NOTED OTHERWISE.
- (2) LAYERS OF GYPSUM BOARD.
- 3 1/2" SOUND INSULATION, FRICTION
- FIT, WHERE INDICATED.

 CERAMIC TILE ON 1/2" TYPE 'X' GYPSUM BOARD, WHERE SCHEDULED SEE FINISH SCHEDULE.
- (1) LAYER OF GYPSUM BOARD.

VDCIII.		1/2"	GYPSUM BOARD	- WITH INSULATION	N: 45±, WITHOL
SYPSUM I ISULATIO	BUARD. N, FRICTION				
ATED.					
1/2" T	YPE 'X' SCHEDULED -	·4,			
DULE.	JOHEDOLLD	'C/X	0,		
PSUM BO	DARD.	0	1 m		
WALL	STUD	STUD	STUD	GYPSUM	
<u>TYPE</u>	<u>SIZE</u>	<u>GAUGE</u>	<u>SPACING</u>	BOARD TYPE	INSULATION
$\langle A \rangle$	2 1/2"	STANDARD	24" O.C.	5/8"	YES
$\langle \hat{B} \rangle$	3 5/8"	STANDARD	24" O.C.	1/2"	NO
$\langle \hat{c} \rangle$	3 5/8"	STANDARD	24" O.C.	5/8"	YES
$\langle \hat{\mathbb{D}} \rangle$	3 5/8"	STANDARD	24" O.C.	5/8"	NO
É	4"	STANDARD	24" O.C.	5/8"	YES
(F)	6"	STANDARD	24" O.C.	5/8"	YES

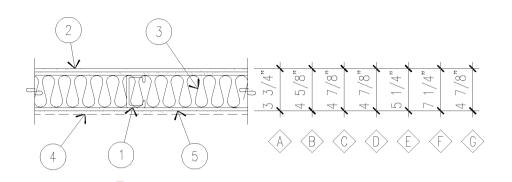
16" O.C.

STANDARD

N.T.S.

3 5/8"

N0



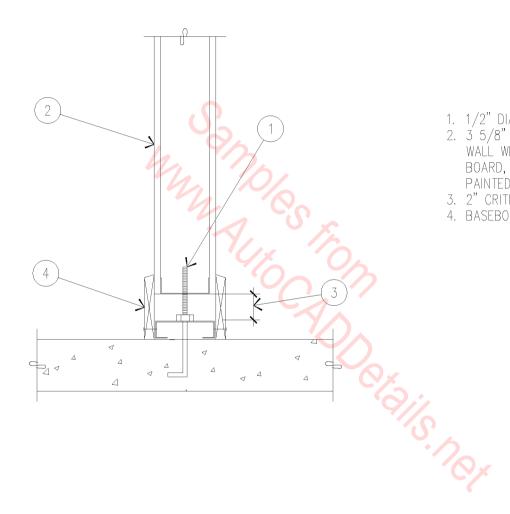
- METAL STUDS, STANDARD GAUGE, AT 24" O.C., TYPICAL, UNLESS NOTED OTHERWISE.
- 2. (2) LAYERS OF GYPSUM BOARD,
- 3. 3 1/2" SOUND INSULATION, FRICTION FIT, WHERE INDICATED.
- 4. CERAMIC TILE ON 1/2" TYPE 'X'
 GYPSUM BOARD, WHERE SCHEDULED SEE FINISH SCHEDULE.
- 5. (1) LAYER OF GYPSUM BOARD.

GYPSUM ASSOCIATION SOUND TRANSFER COEFFICIENT (S.T.C.): 5/8" GYPSUM BOARD - WITH INSULATION: 50±, WITHOUT INSULATION: 45± 1/2" GYPSUM BOARD - WITH INSULATION: 45±, WITHOUT INSULATION: 40±

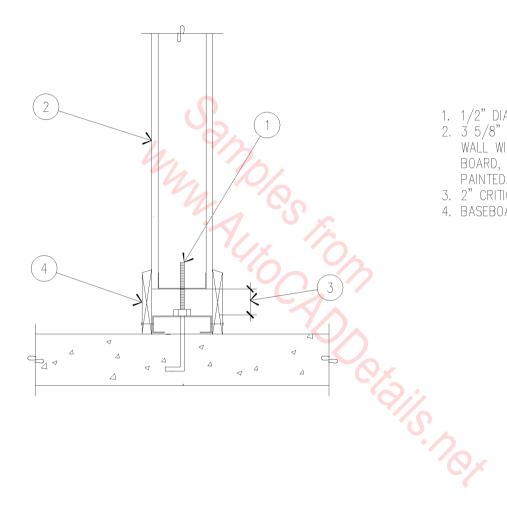
CATED. I 1/2" T\	N, FRICTION /PE 'X' SCHEDULED -		FIFSUIN BUARD	- WITH INSULATIO	N. 431, WITHU
WALL TYPE	STUD <u>SIZE</u>	STUD <u>GAUGE</u>	STUD <u>SPACING</u>	GYPSUM <u>BOARD TYPE</u>	INSULATION
$\langle \hat{\mathbb{A}} \rangle$	2 1/2"	STANDARD	24" O.C.	5/8"	YES
$\langle B \rangle$	3 5/8"	STANDARD	24" O.C.	1/2"	NO
⟨Ĉ⟩	3 5/8"	STANDARD	24" O.C.	5/8"	YES
$\langle \hat{D} \rangle$	3 5/8"	STANDARD	24" O.C.	5/8"	NO
É	4"	STANDARD	24" O.C.	5/8"	YES
F	6"	STANDARD	24" O.C.	5/8"	YES
G	3 5/8"	STANDARD	16" O.C.	5/8"	NO

TYPICAL UNBALANCED SOUND RATED PARTITION

N.T.S.



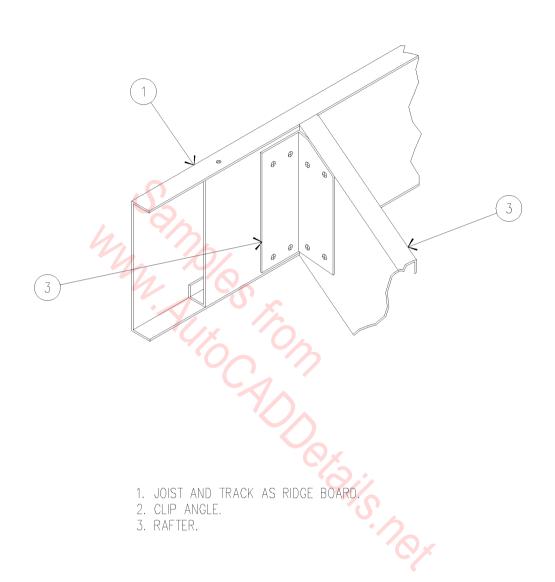
- 1. 1/2" DIAMETER BOLT AT 4'-0" O.C.
 2. 3 5/8" X 25 GAUGE METAL STUD
 WALL WITH 1/2" TYPE 'X' GYPSUM
 BOARD, TAPED, TEXTURED, AND PAINTED.
 3. 2" CRITICAL, 1" LESS CRITICAL.
 4. BASEBOARD.



- 1. 1/2" DIAMETER BOLT AT 4'-0" O.C.
 2. 3 5/8" X 25 GAUGE METAL STUD
 WALL WITH 1/2" TYPE 'X' GYPSUM
 BOARD, TAPED, TEXTURED, AND PAINTED.

 3. 2" CRITICAL, 1" LESS CRITICAL.

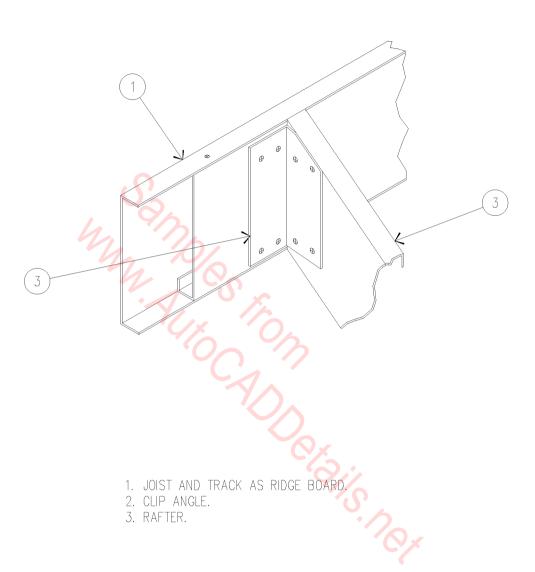
 4. BASEBOARD.



NOTE: USE CLIP ANGLES AS REQUIRED AT EACH RAFTER.

RAFTER AND RIDGE BOARD CONNECTION

N.T.S.

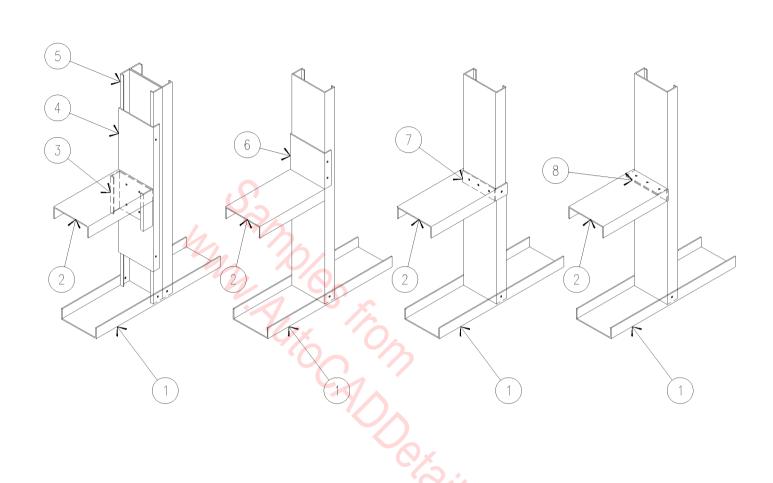


NOTE: USE CLIP ANGLES AS REQUIRED AT EACH RAFTER.

RAFTER AND RIDGE BOARD CONNECTION

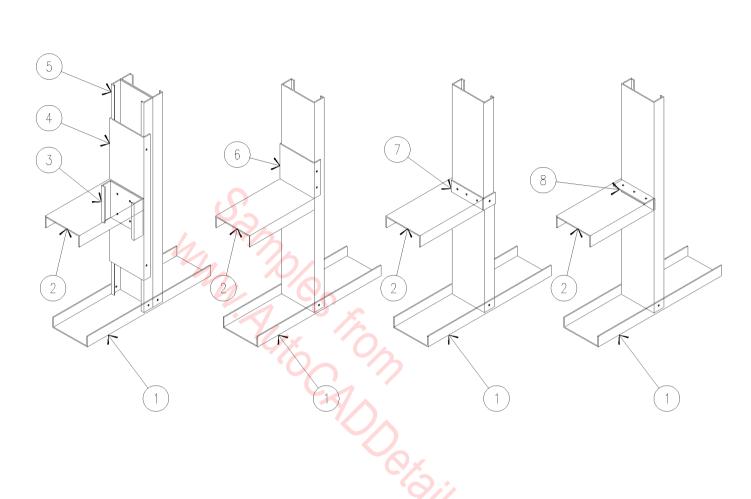
N.T.S.

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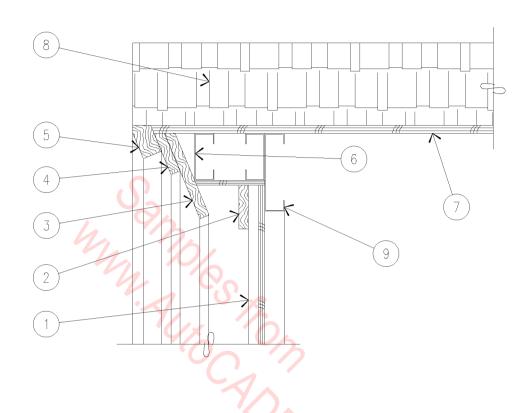
- 1. BOTTOM TRACK.
- 2. SILL TRACK.
- 3. SECTION OF STUD.
- 4. EXTEND CLOSURE TRACK AS REQUIRED FOR SILL CONNECTION AND JAMB STRENGTH.
- 5. MULTIPLE MEMBERS AS REQUIRED AT JAMB.
- 6. CUT TRACK FLANGE AND BEND TO ALLOW CONNECTION.
- 7. CUT TRACK AND BEND TO ALLOW EXTENSION OF FLANGES FOR CONNECTION.
- 8. CLIP ANGLE NO LESS THAN 1/2" LESS THAN STUD DEPTH.

 $1 \ 1/2$ " = 1'-0"

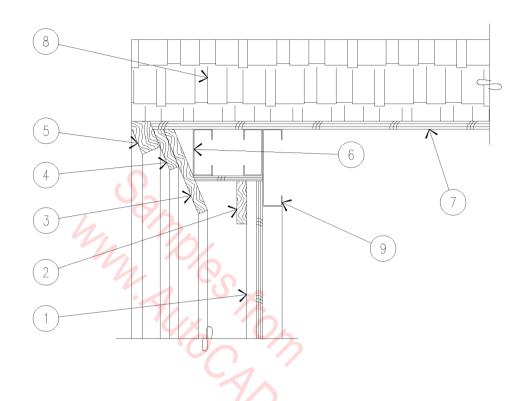


- 1. BOTTOM TRACK.
- 2. SILL TRACK.
- 3. SECTION OF STUD.
- 4. EXTEND CLOSURE TRACK AS REQUIRED FOR SILL CONNECTION AND JAMB STRENGTH.
- 5. MULTIPLE MEMBERS AS REQUIRED AT JAMB.
- 6. CUT TRACK FLANGE AND BEND TO ALLOW CONNECTION.
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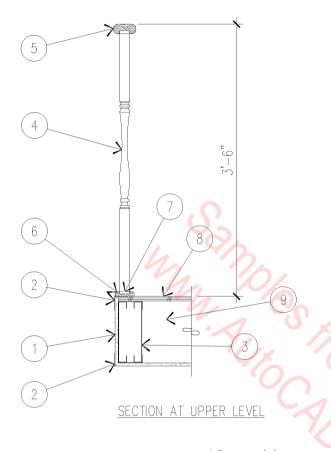


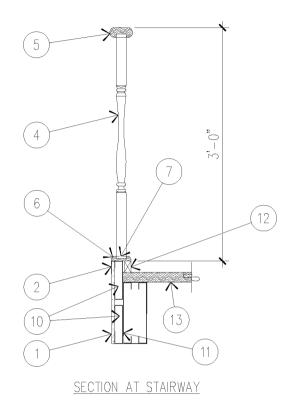
- 1. E.I.F.S. SEE ELEVATIONS FOR SPECIFICATIONS.
- 2. 5/4" X 3 1/2" HARDBOARD TRIM PAINTED.
- 3. 1 X 8 HARDBOARD TRIM PAINTED.
- 4. 5/4" X 5 1/2" HARDBOARD TRIM PAINTED. 5. 5/4" X 1 1/2" HARDBOARD TRIM PAINTED.
- 6. CONTINUOUS BENT METAL BLOCKING.
- 7. 5/8" A.P.A. RATED ROOF DECK.
- 8. ROOF SHINGLES BEYOND SEE ELEVATIONS FOR SPECIFICATIONS.
- 9. HANDFRAME SEE FRAMING PLAN.



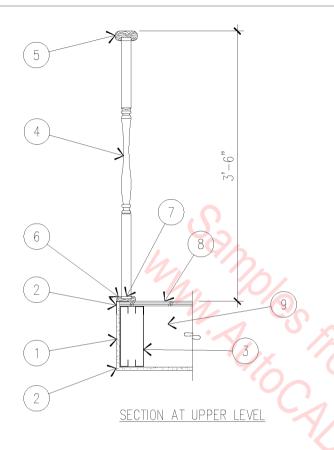
- 1. E.I.F.S. SEE ELEVATIONS FOR SPECIFICATIONS.

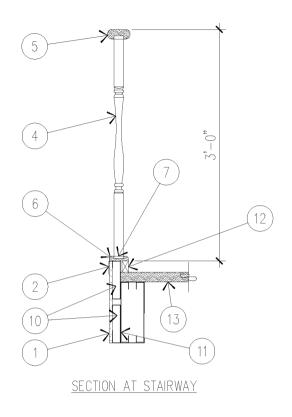
- 2. 5/4" X 3 1/2" HARDBOARD TRIM PAINTED.
 3. 1 X 8 HARDBOARD TRIM PAINTED.
 4. 5/4" X 5 1/2" HARDBOARD TRIM PAINTED.
 5. 5/4" X 1 1/2" HARDBOARD TRIM PAINTED.
- 6. CONTINUOUS BENT METAL BLOCKING.
- 7. 5/8" A.P.A. RATED ROOF DECK.
- 8. ROOF SHINGLES BEYOND SEE ELEVATIONS FOR SPECIFICATIONS.
- 9. HANDFRAME SEE FRAMING PLAN.





- 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED, AND PAINTED.
- METAL TRIM.
- BOX BEAM AS REQUIRED SEE FRAMING PLAN.
- BALUSTER.
 1 1/2" X 2 1/2" SOLID OAK HANDRAIL.
- SOLID OAK SHOE.
- 7. SHOE FILLER.
- 3/4" A.P.A. RATED FLOOR DECK.
- FLOOR JOISTS SEE FRAMING PLAN. 9.
- 10. 2 X 2 BLOCKING.
- 11. BOXED STRINGER.
- 12. 1" X 3/4" WOOD FILLER.
- 13. 2 X 12 TREAD WITH OPEN RISER.

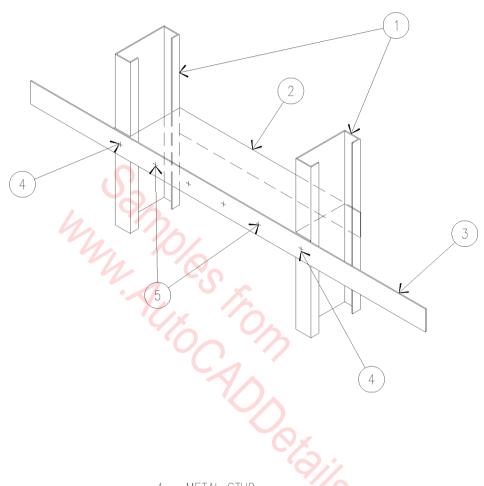




- 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED, AND PAINTED.
- METAL TRIM.
- BOX BEAM AS REQUIRED SEE FRAMING PLAN.
- BALUSTER.
 1 1/2" X 2 1/2" SOLID OAK HANDRAIL.
 SOLID OAK SHOE.

- SHOE FILLER. 3/4" A.P.A. RATED FLOOR DECK.
- 9. FLOOR JOISTS SEE FRAMING PLAN.
- 10. 2 X 2 BLOCKING.
- 11. BOXED STRINGER.
- 12. 1" X 3/4" WOOD FILLER.
- 13. 2 X 12 TREAD WITH OPEN RISER.

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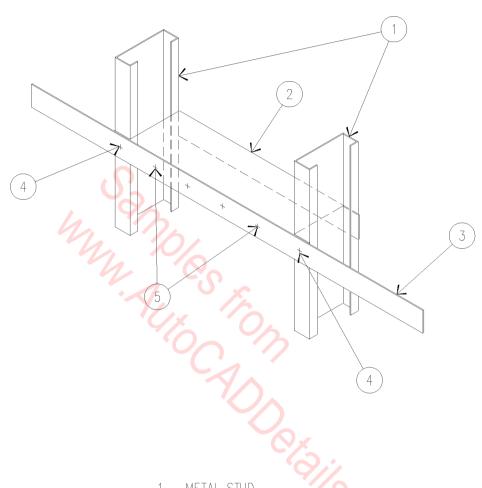


- METAL STUD. 1.
- HORIZONTAL BLOCKING.

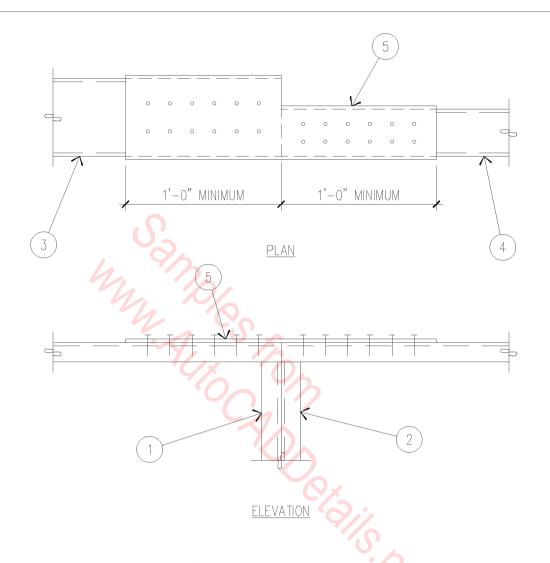
 2" X 20 GAUGE HORIZONTAL STRAP.

 (1) #8 SCREW AT EACH STUD.

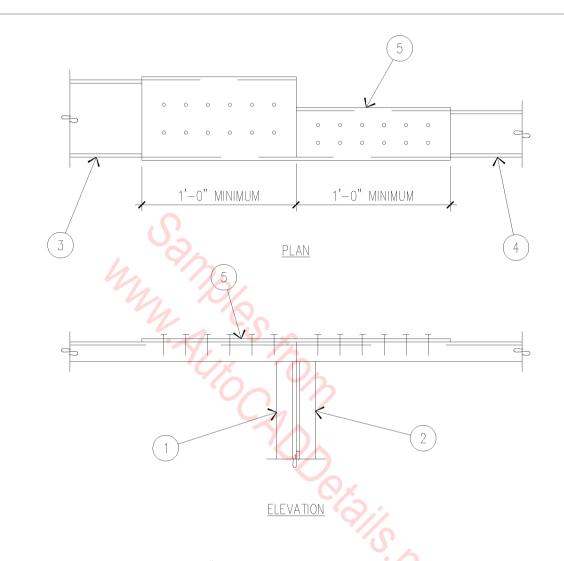
 (4) #8 SCREWS TO BLOCKING.
- 4.



- METAL STUD. 1.
- 2. HORIZONTAL BLOCKING.
 3. 2" X 20 GAUGE HORIZONTAL STRAP.
 4. (1) #8 SCREW AT EACH STUD.
 5. (4) #8 SCREWS TO BLOCKING.

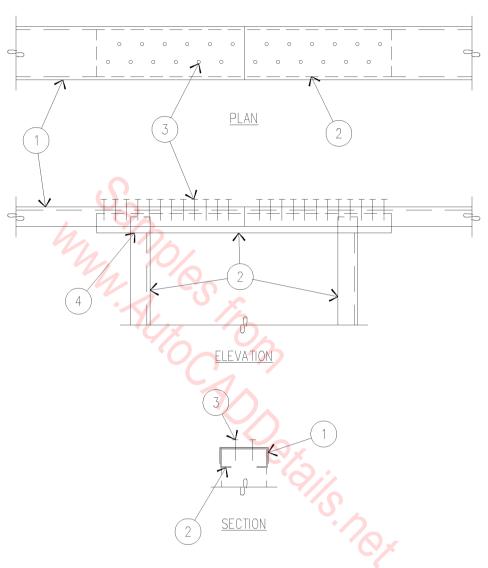


- 6" X 18 GAUGE METAL STUD. 3 5/8" X 20 GAUGE METAL STUD.
- 3 5/8" X 20 GAUGE METAL
 6" X 18 GAUGE TOP TRACK.
 3 5/8" X 20 GAUGE TOP TR
- 3 5/8" X 20 GAUGE TOP TRACK.
- 24" LONG X 18 GAUGE METAL TRACK WITH (12) #10 SCREWS AT EACH TOP TRACK (BEND TRACK LEG AS REQUIRED).

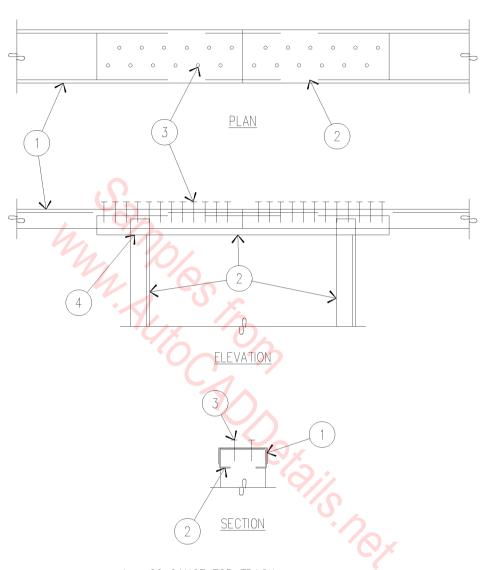


- 6" X 18 GAUGE METAL STUD.
 3 5/8" X 20 GAUGE METAL STUD.
 6" X 18 GAUGE TOP TRACK.

- 3 5/8" X 20 GAUGE TOP TRACK. 24" LONG X 18 GAUGE METAL TRACK WITH (12) #10 SCREWS AT EACH TOP TRACK (BEND TRACK LEG AS REQUIRED).



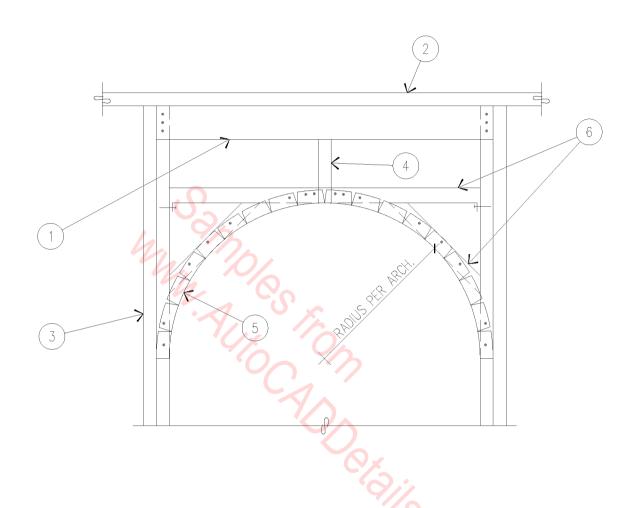
- 20 GAUGE TOP TRACK. 3 5/8" X 20 GAUGE METAL STUD.
- (12) #10 SCREWS AT 7/8" O.C., STAGGERED, EACH SIDE OF SPLICE.
- TRIM FLANGE AS NEEDED TO ALLOW FOR VERTICALS.



- 1. 20 GAUGE TOP TRACK.
- 2. 3 5/8" X 20 GAUGE METAL STUD.
- 3. (12) #10 SCREWS AT 7/8" O.C., STAGGERED, EACH SIDE OF SPLICE.
- 4. TRIM FLANGE AS NEEDED TO ALLOW FOR VERTICALS.

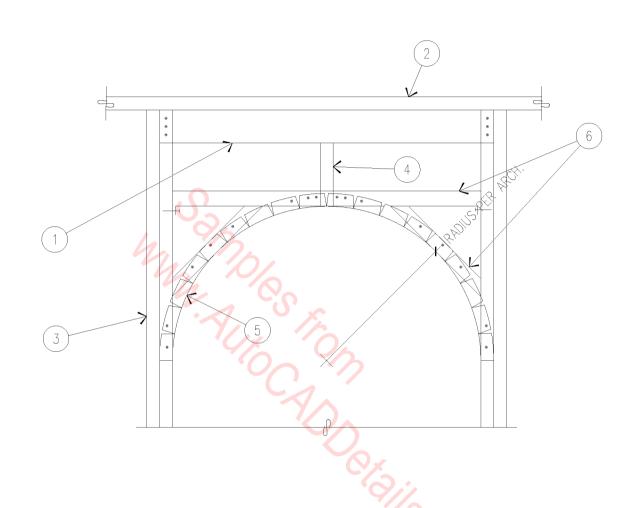
TYPICAL TRACK SPLICE

 $1 \frac{1}{2} = 1'-0$ "

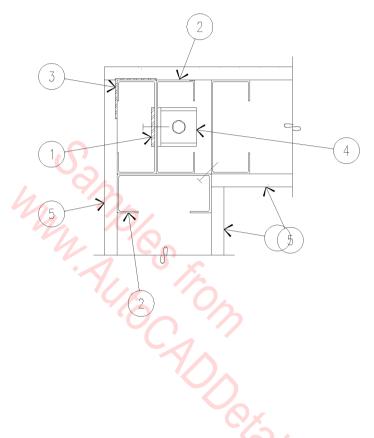


- 1. HEADER.
 2. TOP TRACK.
 3. 3 5/8" X 20 GAUGE METAL STUDS (1) KING AND (1) JACK.
 4. CRIPPLE STUD.
- 20 GAUGE ARCHED TRACK -NOTCH AS REQUIRED.
- 6. METAL STUD SUPPORT.

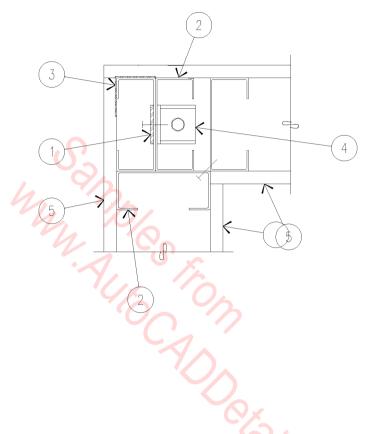
05B-2095



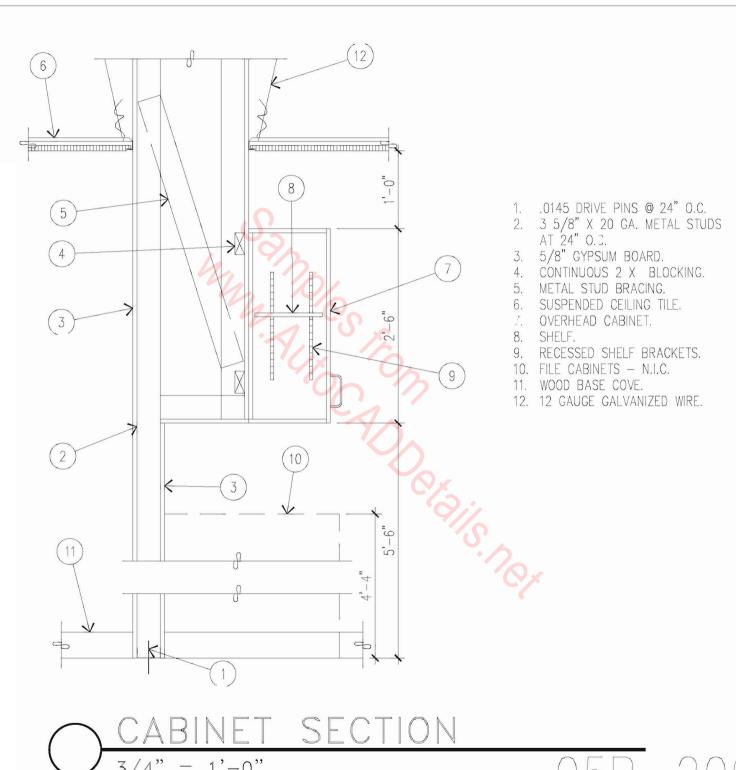
- HEADER.
- 1. 2. 3. 2. TOP TRACK.
 3. 3 5/8" X 20 GAUGE METAL STUDS - (1) KING AND (1) JACK.
 4. CRIPPLE STUD.
- 20 GAUGE ARCHED TRACK -NOTCH AS REQUIRED.
- 6. METAL STUD SUPPORT.

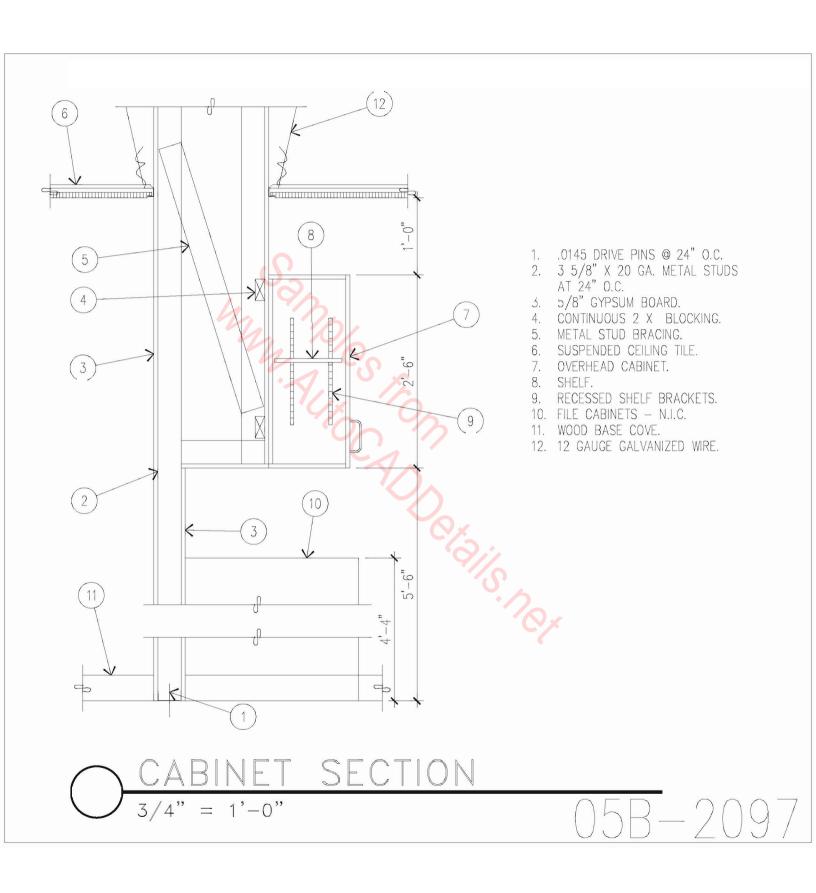


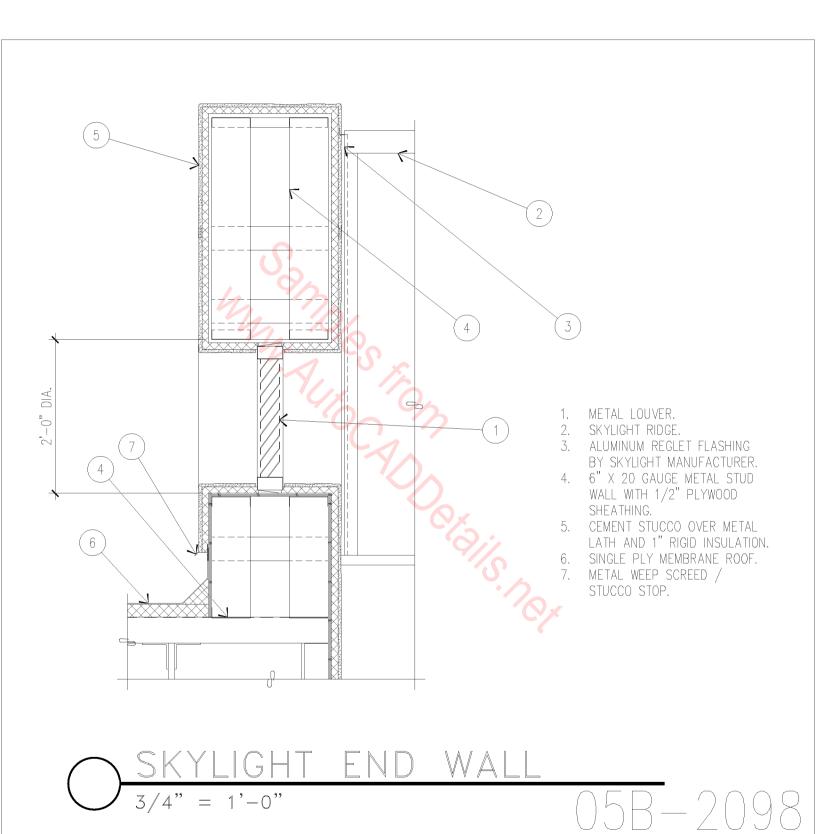
- 1. TIE DOWN STRAP (WHERE OCCURS).
 2. 3 5/8" X 20 GAUGE METAL STUDS.
 3. 1 1/2" X 1 1/2" X 20 GAUGE ANGLE.
 4. HOLD DOWN (WHERE OCCURS).
 5. 1/2" GYPSUM BOARD.

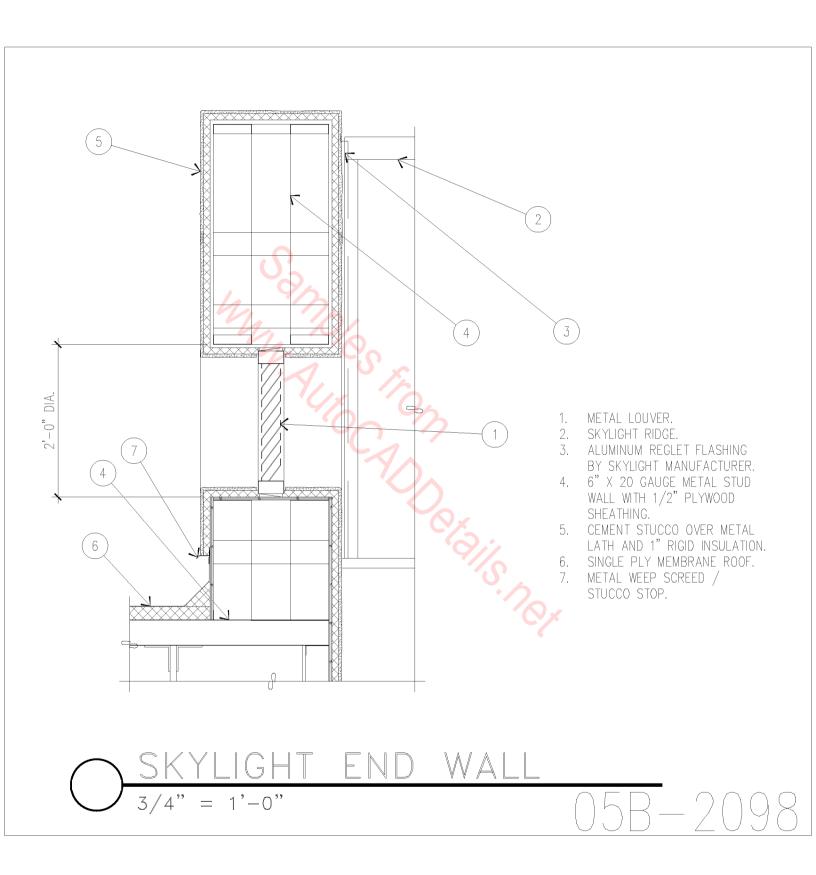


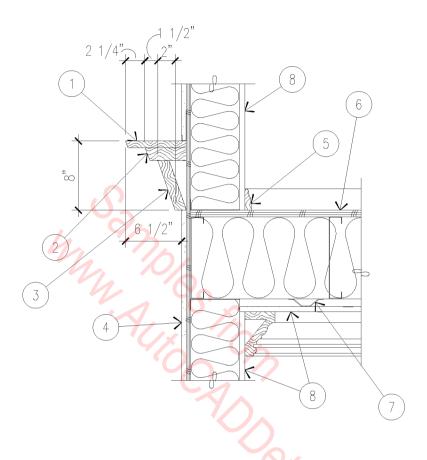
- 1. TIE DOWN STRAP (WHERE OCCURS).
 2. 3 5/8" X 20 GAUGE METAL STUDS.
 3. 1 1/2" X 1 1/2" X 20 GAUGE ANGLE.
 4. HOLD DOWN (WHERE OCCURS).
 5. 1/2" GYPSUM BOARD.



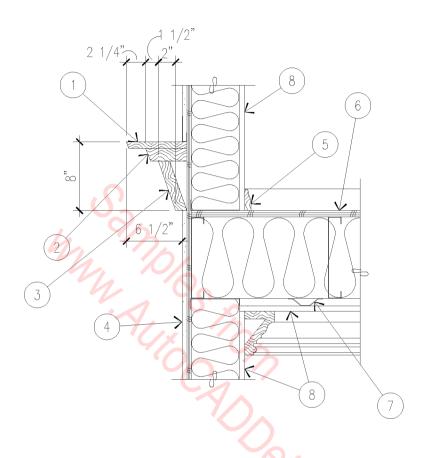






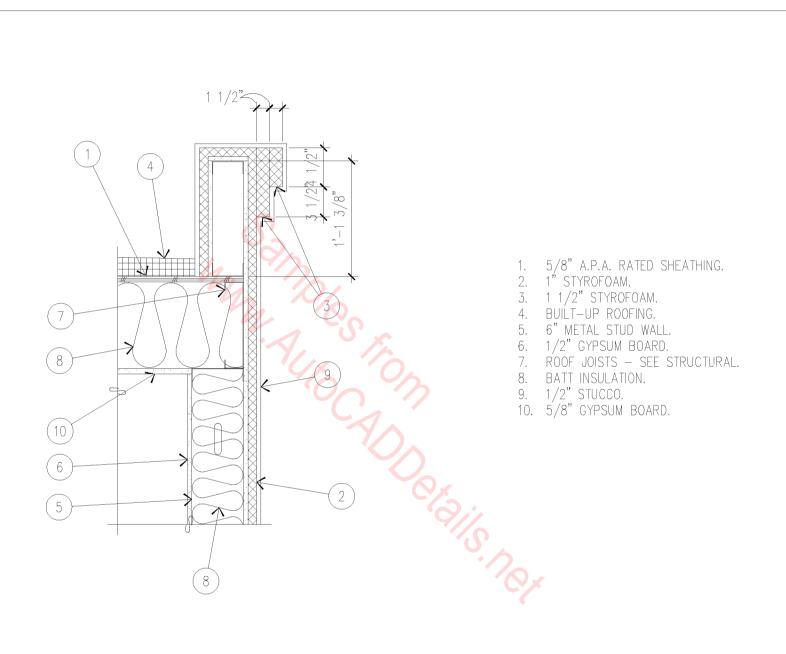


- 1 X 8 TRIM, PAINTED.
 2 X 4 TRIM, PAINTED.
 5/4" X 5 1/2" TRIM, PAINTED.
 EXTERIOR FINISH SYSTEM SEE SPECIFICATIONS.
- BASEBOARD TRIM.
- 3/4" A.P.A. RATED FLOOR SHEATHING.
- 7.
- RC-1 CHANNELS. 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED, AND PAINTED.

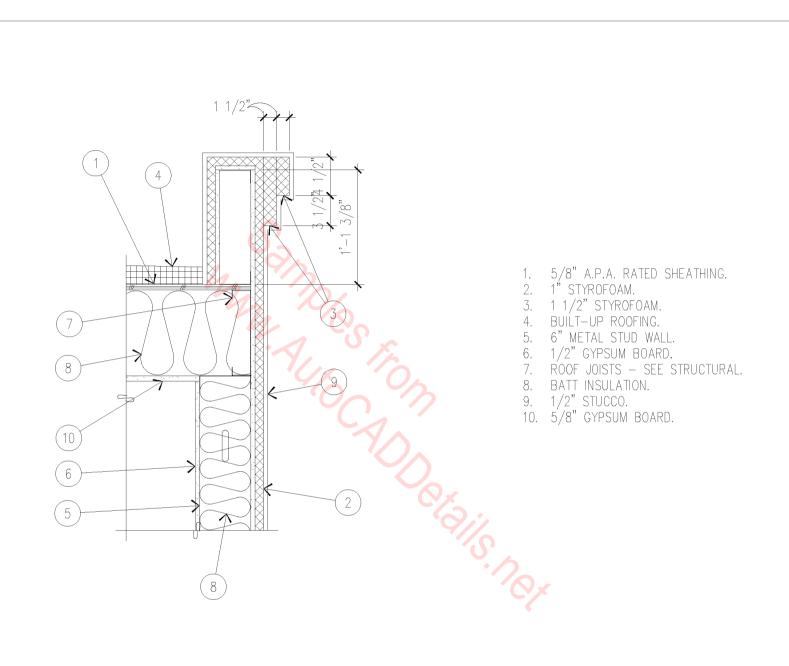


- 1 X 8 TRIM, PAINTED.
 2 X 4 TRIM, PAINTED.
 5/4" X 5 1/2" TRIM, PAINTED.
- EXTERIOR FINISH SYSTEM SEE SPECIFICATIONS.

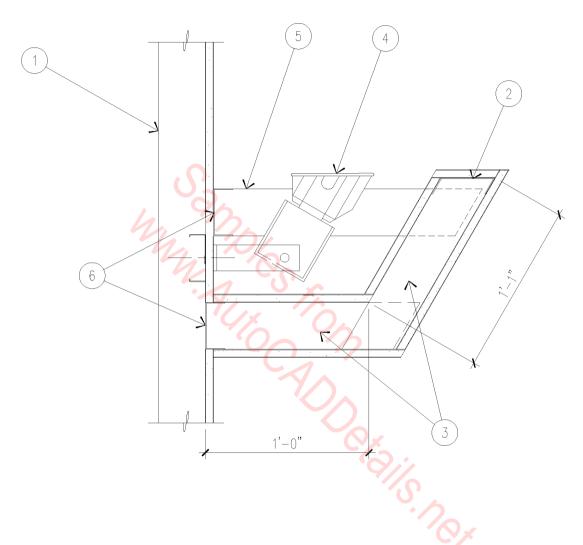
- BASEBOARD TRIM.
 3/4" A.P.A. RATED FLOOR SHEATHING.
 RC-1 CHANNELS.
 5/8" TYPE 'X' GYPSUM BOARD, TAPED,
 TEXTURED, AND PAINTED.



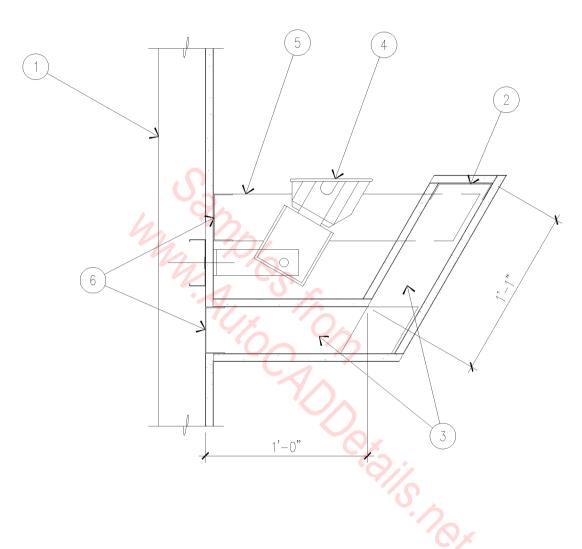
1" = 1'-0"



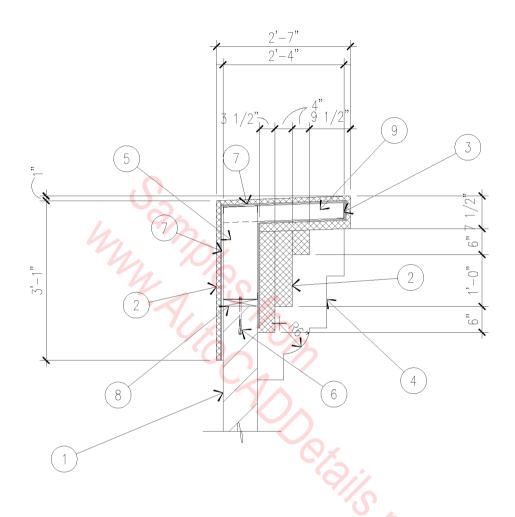
1" = 1'-0"



- 3 5/8" METAL STUD WALL WITH 5/8" GYPSUM BOARD.
 3 5/8" METAL STUD BRAKE METAL 'TRACK'.
 3 5/8" METAL STUD LIGHT COVE WITH 5/8" GYPSUM BOARD ON EACH SIDE.
- 4. LIGHT FIXTURE AND MOUNTING BRACKET.
 5. 3 5/8" METAL STUD BRACE AT 48" O.C.
 6. 3 5/8" METAL STUD TRACK.

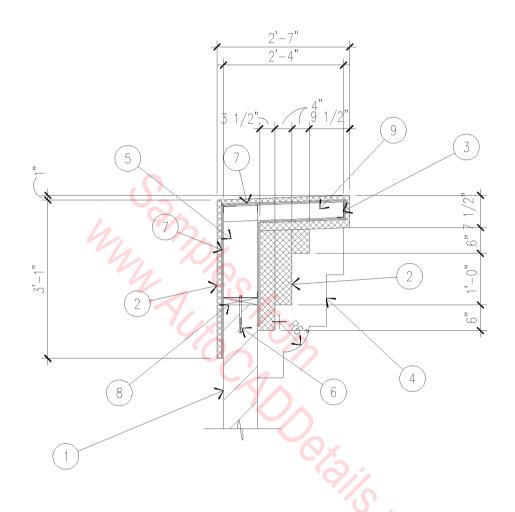


- 3 5/8" METAL STUD WALL WITH 5/8" GYPSUM BOARD.
 3 5/8" METAL STUD BRAKE METAL 'TRACK'.
 3 5/8" METAL STUD LIGHT COVE WITH 5/8" GYPSUM BOARD ON EACH SIDE.
- 4. LIGHT FIXTURE AND MOUNTING BRACKET.
- 5. 3 5/8" METAL STUD BRACE AT 48" O.C. 6. 3 5/8" METAL STUD TRACK.



- 1. FOUNDERS BLOCK MASONRY.
- 2. RIGID FOAM POP-OUT.
- 3. METAL STUD & FOAM POP OUT.
- 4. RIGID FOAM BRACKET.
- 5. 8" X 16 GAUGE METAL STUDS AT 24" O.C. 6. 5/8" Ø X 6" WEDGE ANCHOR AT 32" O.C.
- 1/2" GYPSUM SHEATHING.
- 2 X 8 CONTINUOUS TOP PLATE. 3 5/8" X 18 GAUGE METAL STUDS AT 24" O.C.

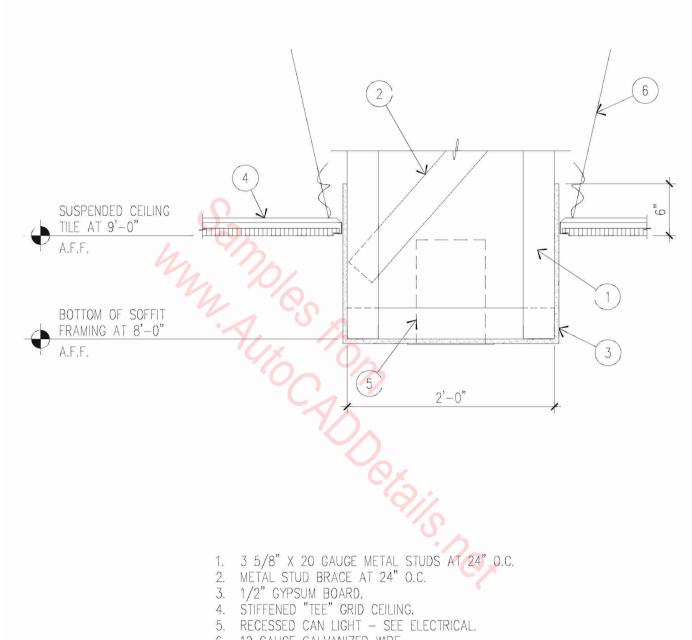
NOTE: CEMENT STUCCO OVER METAL LATH TO COVER ALL RIGID FOAM POP OUTS NOT SHOWN FOR CLARITY



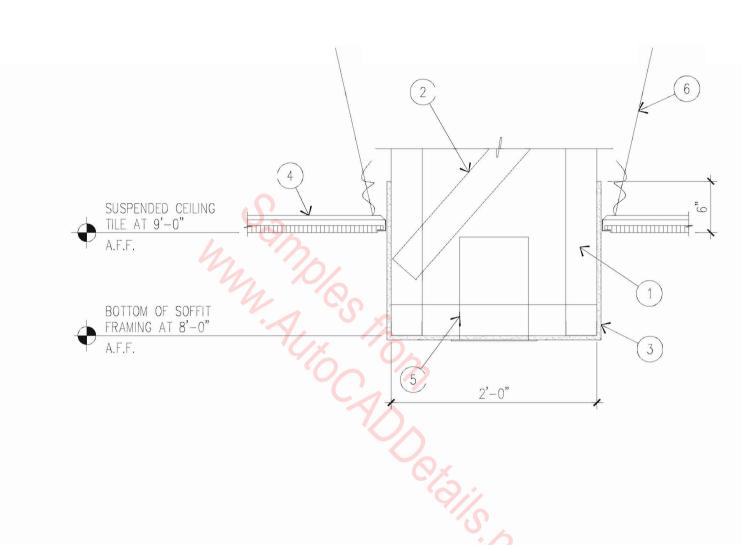
- 1. FOUNDERS BLOCK MASONRY.
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- 4. RIGID FOAM BRACKET.
- 5. 8" X 16 GAUGE METAL STUDS AT 24" O.C. 6. 5/8" Ø X 6" WEDGE ANCHOR AT 32" O.C.

- 7. 1/2" GYPSUM SHEATHING.
- 2 X 8 CONTINUOUS TOP PLATE. 3 5/8" X 18 GAUGE METAL STUDS AT 24" O.C.

NOTE: CEMENT STUCCO OVER METAL LATH TO COVER ALL RIGID FOAM POP OUTS NOT SHOWN FOR CLARITY



- 6. 12 GAUGE GALVANIZED WIRE.



- 1. 3 5/8" X 20 GAUGE METAL STUDS AT 24" O.C.
 2. METAL STUD BRACE AT 24" O.C.
 3. 1/2" GYPSUM BOARD.
 4. STIFFENED "TEE" GRID CEILING.

- 5. RECESSED CAN LIGHT SEE ELECTRICAL.
- 6. 12 GAUGE GALVANIZED WIRE.

MINIMUM NAILING SCHEDULE U.O.N. PER U.B.C. 1991 JOIST TO SILL OR GIRDER, TOE NAIL BRIDGE TO JOIST, TOE NAIL EACH END 1" X 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL WIDER THAN 1" X 6" SUBFLOOR TO EACH JOIST, FACE NAIL 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL 3-8D 2 - 8D2-80 3-8D 2-16D SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL 16D AT 16" O.C. TOP PLATE TO STUD, TOE NAIL 4-8D END NAIL 2-16D 16D-24"0.C. DOUBLE STUDS, FACE NAIL DOUBLE TOP PLATES, FACE NAIL 16D-16"O.C. TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL 2-16D CONT HEADER, TWO PIECES ALONG EACH SIDE 16D-16"0.C. CEILING JOISTS TO PLATE, TOE NAIL 3-8D CONT HEADER TO STUDS, TOE NAIL 4-8D CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL 3-16D CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL 3-16D RAFTER TO PLATE, TOE NAIL 3-16D RAFTER TO RIDGE BOARD, TOE NAIL RAFTER TO VALLEY OR HIP RAFTER, TOE NAIL RAFTER TO VALLEY OR HIP RAFTER, TOE NAIL 3-8D 3-8D 3-8D OR FACE NAIL 3-8D 1" BRACE TO EACH STUD AND PLATE, FACE NAIL 1" X 8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL 2-8D 2-8D WDER THAN 1 X 8 SHEATHING TO EACH BEARING, FACE NAIL BUILT-UP GIRDER & BEAMS, AT TOP, BOTTOM & STAGGERED AT ENDS AND AT EACH SPLICE 2-8D 20d AT 32" O.C. 20d AT 32" O.C. BUILT-UP CORNER STUDS 2" PLANKS 16D-24"O.C. 2-16D AT EACH BEARING 2 PLANKS PLYWOOD AND PARTICLE BOARD: (SEE NOTE 5) SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING): 1/2" AND LESS. 19/32" - 3/4" 8D (SE 7/8" - 1" 11/8" - 11/4" 10D (SEE 6D (SEE NOTE 2) 8D (SEE NOTE 3) OR 6D (SEE NOT 4) 8D (SEE NOTE 2) 10D (SEE NOTE 3) OR 8D (SEE NOTE 4) COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING): 3/4" AND LESS 7/8" - 1" 1 1/8" - 1 1/4" PANEL SIDING (TO FRAMING): 6D (SEE NOTE 4) 8D (SEE NOTE 4 10D (SEE NOTE 3) OF 8D (SEE NOTE 4) 1/2" OR LESS__ 5/8"__ 6D (SEE NOTE 6) 8D (SEE NOTE 6) FIBERBOARD SHEATHING: (SEE NOTE 7) 1/2" NO. 11 GA. (SEE NOTE 8), 6D (SEE NOTE 3), NO. 16 GA. (SEE NOTE 9) 25/32" NO. 11 GA. (SEE NOTE 8), 6D (SEE NOTE 3), NO. 16 GA. (SEE NOTE 9) NOTE: BEARING STUD WALLS AND SHEAR WALLS INTERSECTING WITH MASONRY TO HAVE DOUBLE STUDS WITH 1/2 DIAMETER ANCHOR BOLTS COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED. COMMON OR DEFORMED SHANK. COMMON. DEFORMED SHANK. NAILS SPACED AT 6" O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF PLYWOOD AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2513 (c). NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING. CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2516 (j) 1. FASTENERS SPACED 3" O.C. AT EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2516 (j) 1. CORROSION—RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION

2516 (j) 1.

		S			
SPREAD FOOTING SCHEDULE				JLE	
	FOOTING SIZE		REINFORCING STEEL		
TYPE	WIDTH	LENGTH	THICK.	LONGITUDINAL	TRANSVERSE
F1	3'-0	3'-0	1'-0	(3)-#5's x 2'-8	(3)-#5's x 2'-8
F2	3'-6	3'-6	1'-0	(4)-#5's x 3'-2	(4)-#5's x 3'-2
F3	4'-0	4'-0	1'-2	(5)-#5's x 3'-8	(5)-#5's x 3'-8
F4	5'-0	5'-0	1'-6	(6)-#6's x 4'-8	(6)-#6's x 4'-8
F5	6'-0	6'-0	1'-10	(7)-#7's x 5'-8	(7)-#7's x 5'-8
F6	6'-6	6'-6	2'-0	(7)-#8's x 6'-2	(7)-#8's x 6'-2
F7	7'-0	7'-0	2'-0	(8)-#8's x 6'-8	(8)-#8's x 6'-8
				ills pol	<i>(</i>

SPREAD FOOTING SCHEDULE

NOT TO SCALE

1010-4002

	()'	
4.	BEAM	SCHEDULE
MARK	SIZE	REMARKS
B-1	11/7/8"	(4) QTY. MICROLAMS
B-2	11 7/8"	(2) QTY. MICROLAMS
B-3	14"	(3) QTY. MICROLAMS
B-4		(TO BE DETERMINED)
B-5	1 3/4" X 18"	(4) QTY. MICROLAMS
		9//6
		.70
		Copie de la Copie

	GOLUMN SCHEDULE
MARK	POST SIZE
1	4" X 4" X 1/4" TUBE STEEL
2	5" X 5" X 1/4" TUBE STEEL
(3)	4 X 6 WOOD POST
4	6 X 6 WOOD POST
(5)	(2) 2 X 6 WOOD POST
	O _X
	Alls. Day

	GIRDER SCHEDULE			
MARK	SIZE	REMARKS		
G-1	32G6N12.OK			
G-2	32G7N12.0K	1/20 m		
	46	\mathcal{O}{D}		
	C	4		
		Ox.		
		4/5		
		·Pox		

HEADER SCHEDULE			
MARK	SIZE	REMARKS	
(H-1)	2 X 12	DOUBLED UP AND EXTENDING 4" MIN. PAST EACH END OF OPENING.	
$\langle H-2 \rangle$	2 X 8	(4) QTY. @ EACH LOCATION SHOWN.	
	10		
		4/	
		0,,	
		·Pox	

	,()	
	JOIST	SCHEDULE
MARK	SIZE	REMARKS
J-1	11 7/8" TJI/55	SPACED @ 19.2" ON CENTER
J-2	2 X 8	SPACED @ 16" ON CENTER
J-3	2 X 6	SPACED @ 16" ON CENTER
J-4	2 X 8	ROOF JOISTS SPACED @ 16" ON CENTER
		Ox.
		9//
		3.7
		Ox

	_ ()	
UNTEL SCHEDULE		
MARK	SIZE	REMARKS
(L-1)	PS8 - 40"	POWERS STEEL PREFAB. LINTEL
(L-2)	PS8-24"	POWERS STEEL PREFABRICATED LINTEL
(L-3)	PS8 - 20"	POWERS STEEL PREFABRICATED LINTEL

NOTE:

SPECIAL INSPECTION IS REQUIRED FOR PLACEMENT OF GROUT @ "POWERS STEEL" PREFABRICATED STEEL LINTELS.

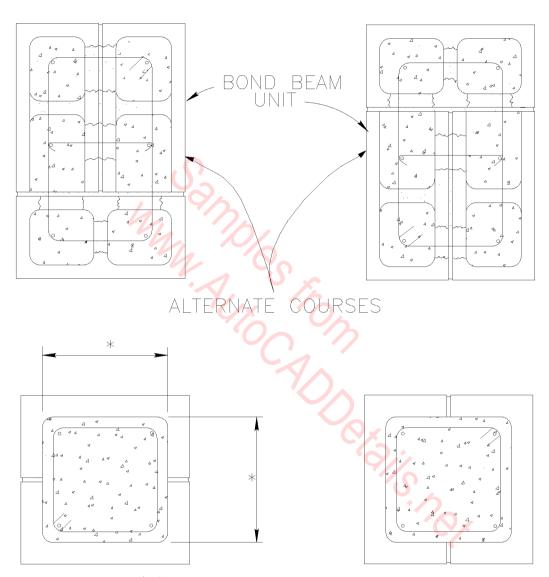
NOT TO SCALE

 $\overline{010} - 4008$

	S		
PAD SCHEDULE			
MARK	PAD SIZE	REINFORCING	
A	3'-6" X 3'-6" X 1'-0"	(4) #5 REBARS EACH WAY	
В	2'-6" X 2'-6" X 1'-0"	(6) #5 EACH WAY	
С	2'-6" X 2'-6" X 1'-0"	(6) #5 EACH WAY	
D	7'-0" X 7'-0" X 1'-6"	#5 REBARS @ 12" O.C. EACH WAY	
E	5'-0" X 5'-0" X 1'-3"	#5 REBARS @ 12" O.C. EACH WAY	
F	5'-4" X 5'-0" X 1'-3"	#5 REBARS @ 12" O.C. EACH WAY	
G	9'-0" X 4'-4" X 1'-3"	#5 REBARS @ 12" O.C. EACH WAY	
		Qx	

	S	
4	ROOF SCHE	DULE
MARK	SIZE	REMARKS
A	PRE-FABRICATED ROOF TRUSSES @ 24" O.C.	
В	2 X 8 RAFTERS @ 24" O.C.	
С	JACK TRUSSES @ 24" O.C.	
		2//
		S. /2-
		Op.

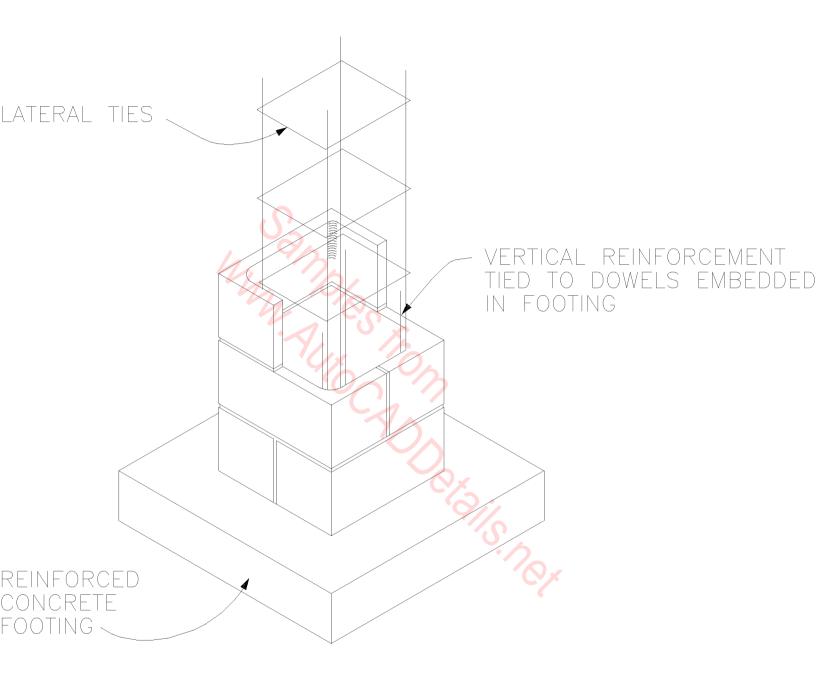
NOTE: REMOVE WEBS AS NEEDED FOR TIES AND GROUTING



(b) BUILT WITH PILASTER UNITS.

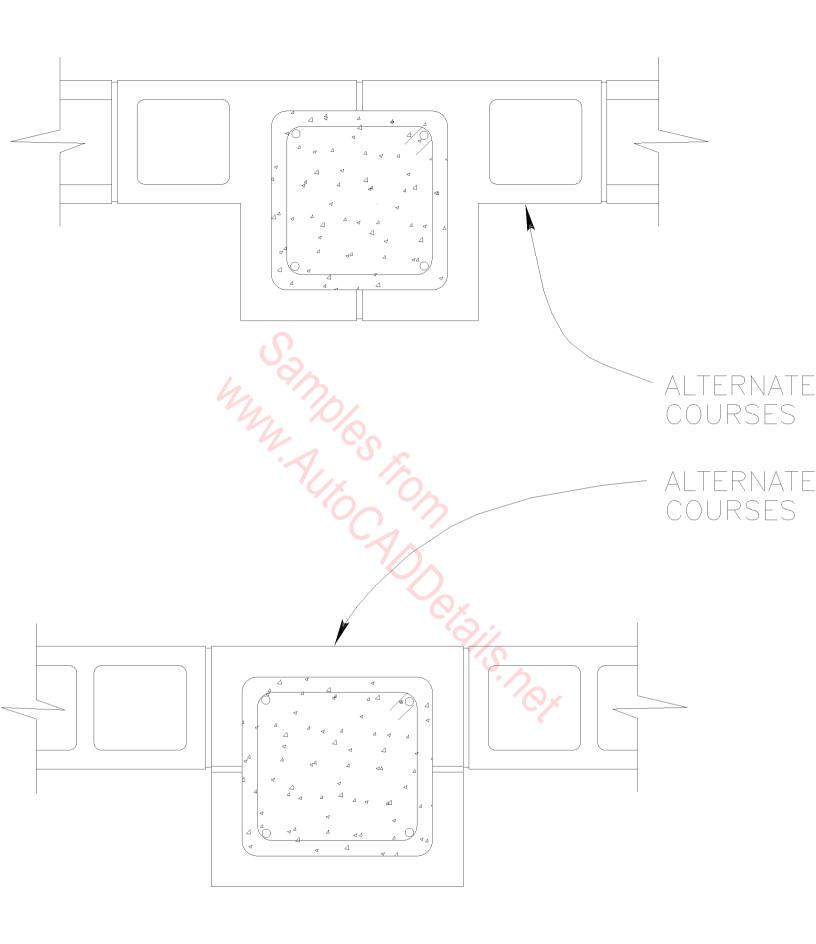
NOTE: DESIGNER TO DIMENSION REINFORCEMENT * 8" MIN.—12x12 COLUMN LOCATION REQUIREMENTS. * 12" MIN.—16x16 COLUMN

COLUMN SECTIONS

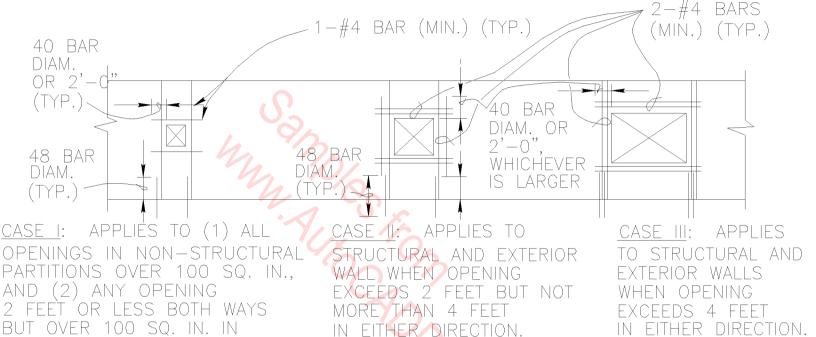


COLUMN DETAIL

N.T.S.



PILASTER SECTIONS

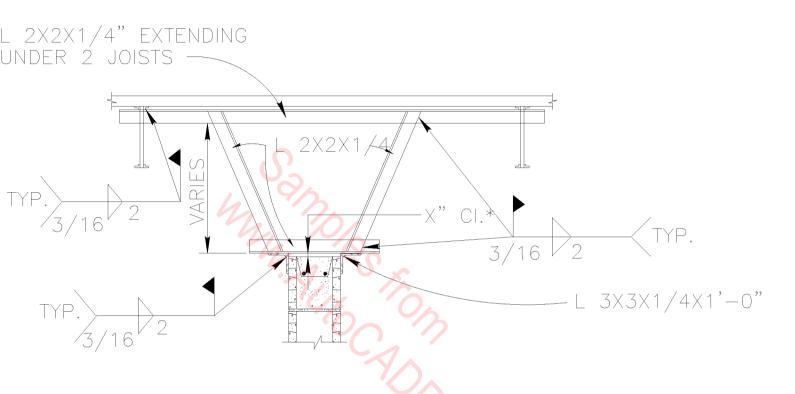


NOTES: 1. VERTICAL REINFORCEMENT OF 2 BARS, EACH BAR MAY BE PLACED IN A SEPARATE CELL.

STRUCTURAL OR EXTERIOR WALLS.

- 2. VERTICAL BARS SHALL BE OF THE SAME SIZE, EXTENT, AND ANCHORAGE AS THE TYPICAL REINF. IN THAT WALL UNLESS OTHERWISE INDICATED.
- 3. VERTICAL BARS CAN BE PART OF NORMAL REINF. IN THE WALL.
- 4. REINFORCEMENT AT TOP OF OPENINGS SHALL BE NOT LESS THAN THAT REQUIRED BY THE LINTEL DESIGN.

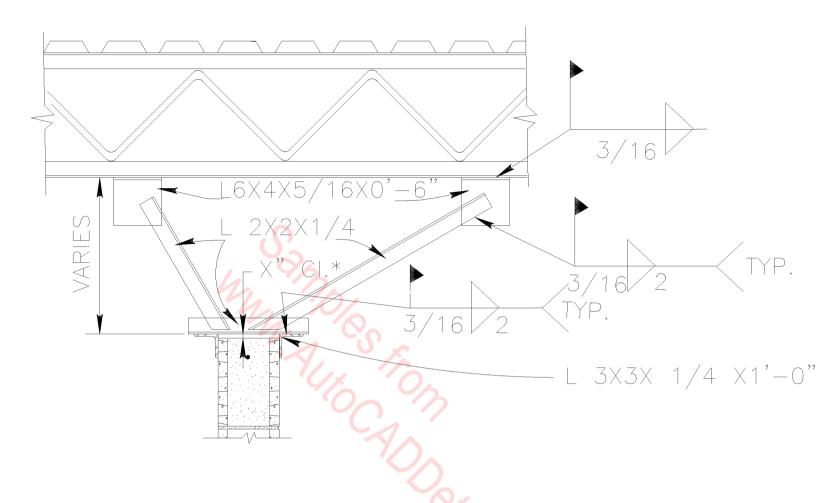
REINFORCING AROUND WALL OPENINGS



* X CLEAR DIMENSION SHALL BE AS REQUIRED BY JOIST DEFLECTION, BUT NOT LESS THAN 1—INCH.

NOTE: SPACE AT A MAXIMUM OF 8'-0" O.C. USING A MIN. OF TWO PER WALL IN ANY ONE DIRECTION.

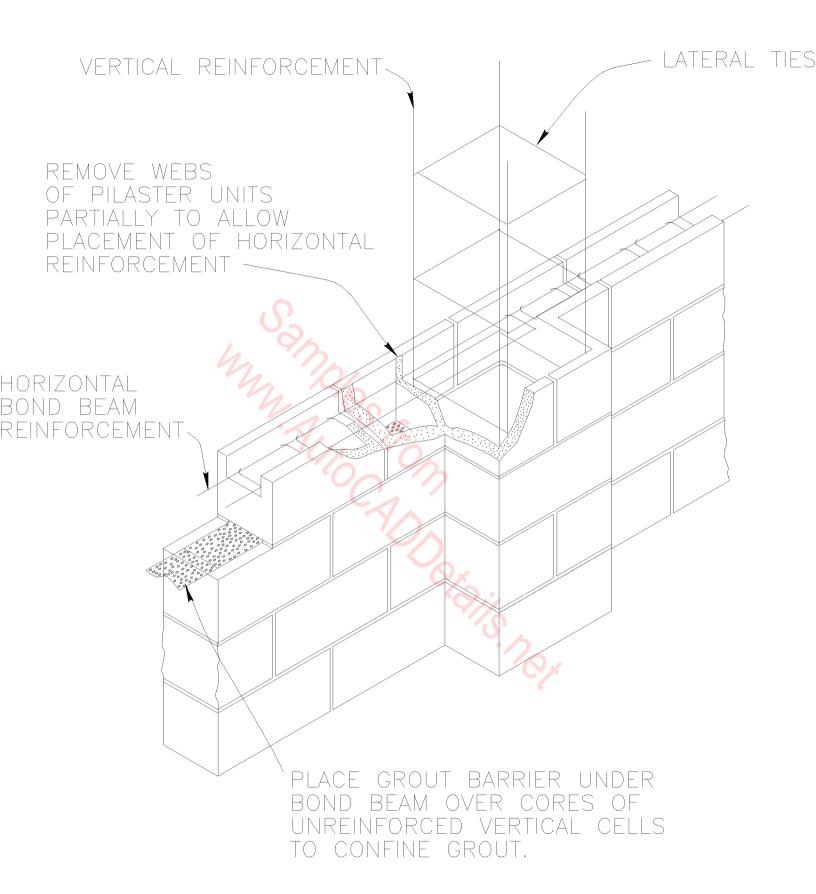
PARTITION SUPPORTS, PARTIAL HEIGHT WALL PARALLEL TO JOISTS



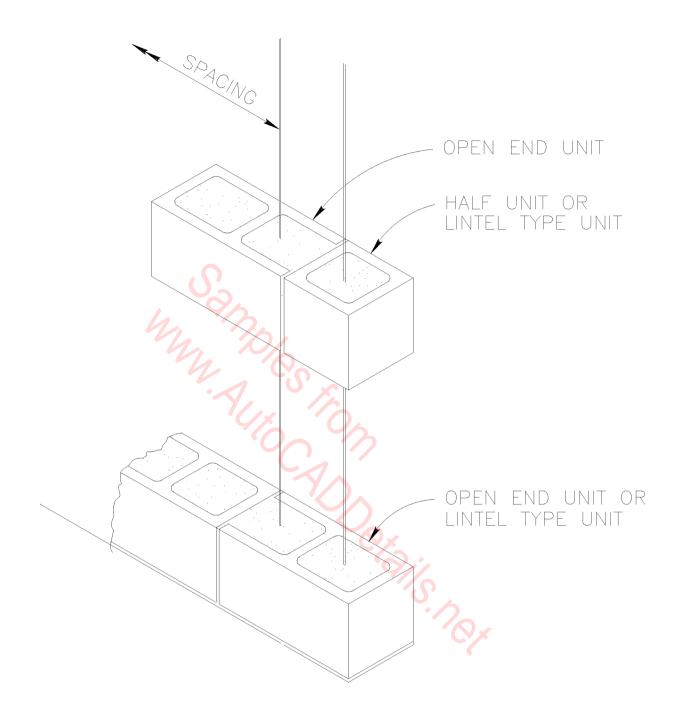
*X CLEAR DIMENSION SHALL BE AS REQUIRED BY JOIST DEFLECTION, BUT NOT LESS THAN 1—INCH.

NOTE: SPACE AT A MAXIMUM OF 8'-0" O.C. USING A MIN. OF TWO PER WALL IN ANY ONE DIRECTION.

PARTITION SUPPORTS, PARTIAL HEIGHT WALL PERPENDICULAR TO JOISTS



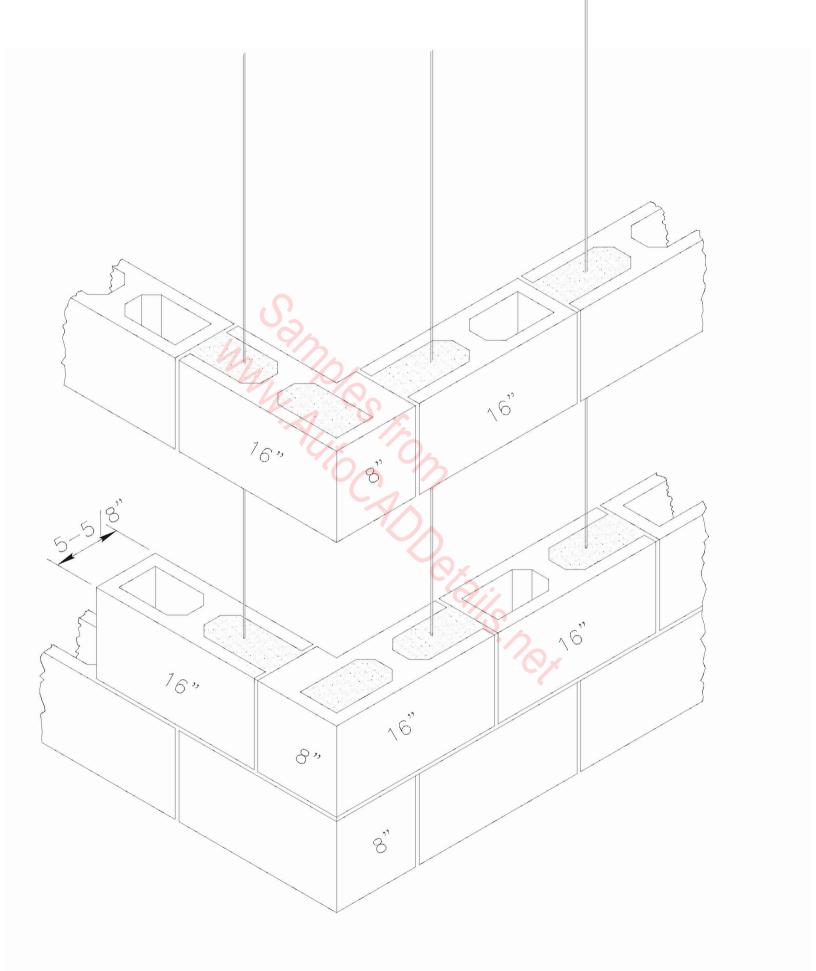
PILASTER



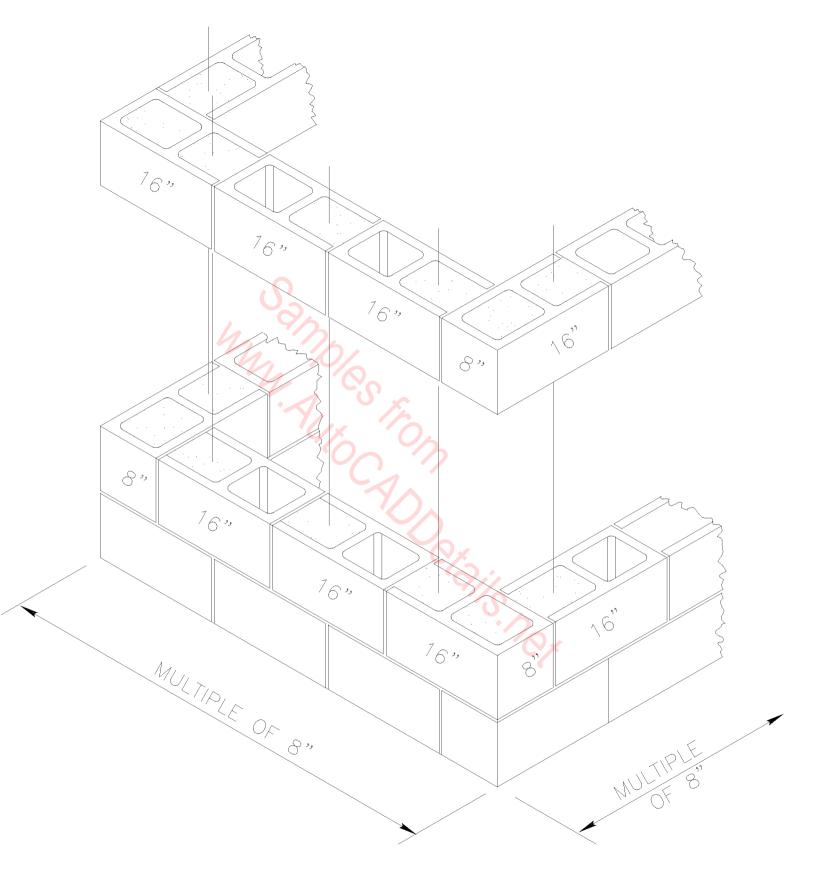
NOTES: 1. LINTEL TYPE UNITS MAY BE CUT FROM OPEN END UNITS

2. ALTERNATE ARRANGEMENT OF UNITS—STEEL FOR PARTIALLY OR FULLY GROUTED WALLS WHEN VERTICAL WALL REINFORCEMENT IS REQUIRED IN THE END CELL

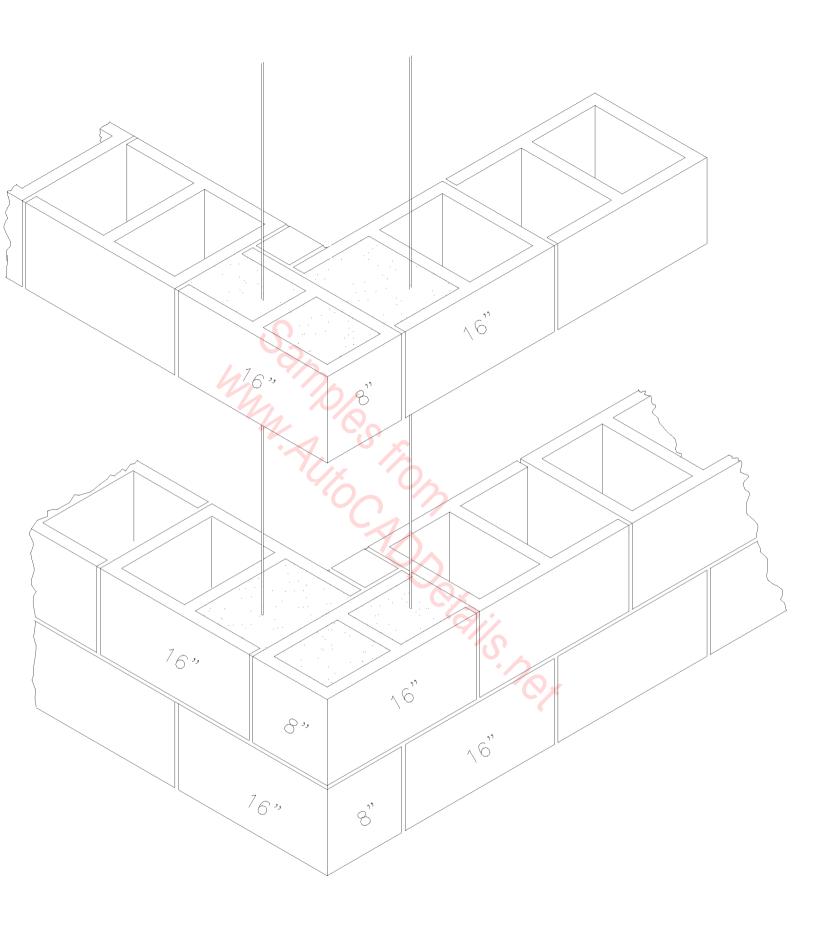
ALTERNATE END CELL GROUTED WALL



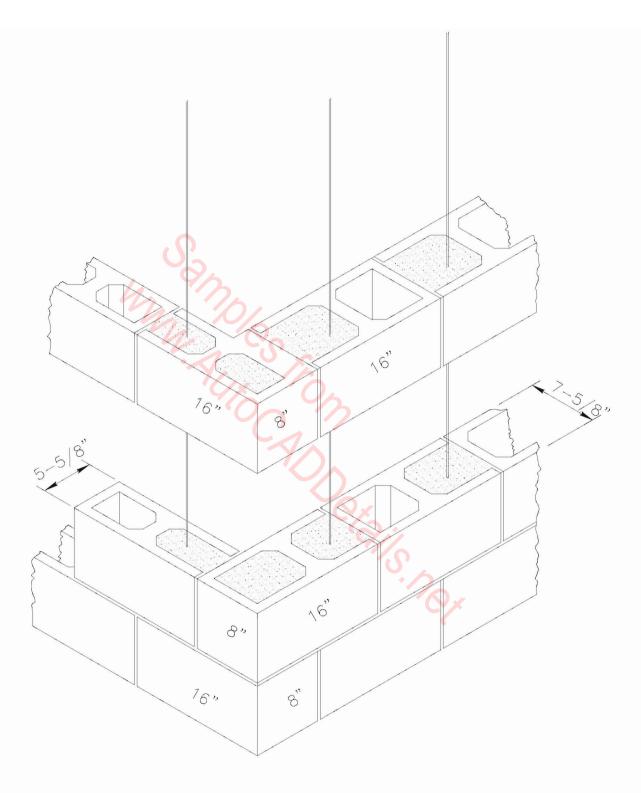
CORNER DETAIL, 6-INCH CMU WALL



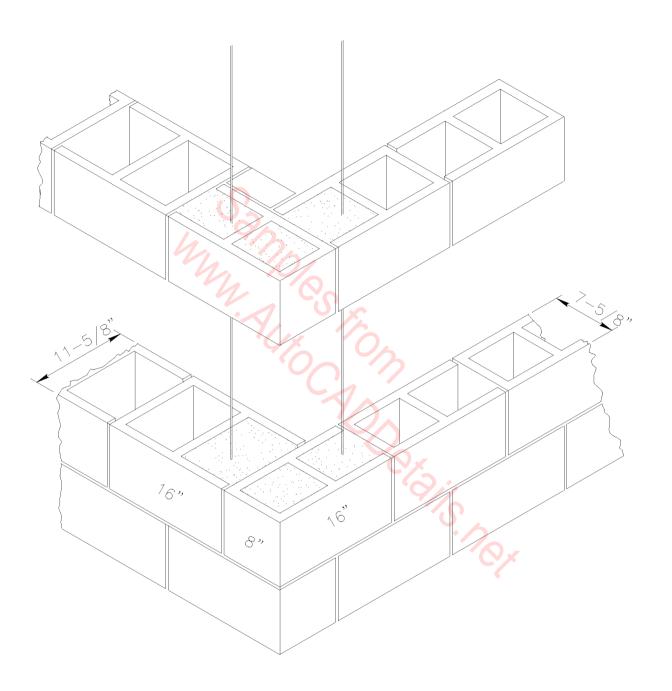
CORNER DETAIL, 8-INCH CMU WALL



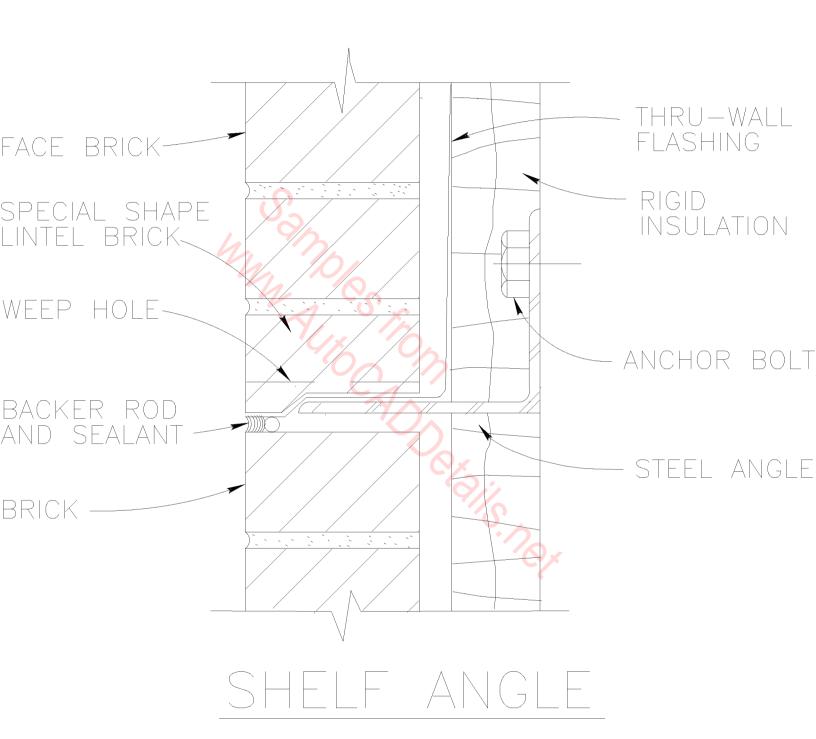
CORNER DETAIL, 12-INCH CMU WALL

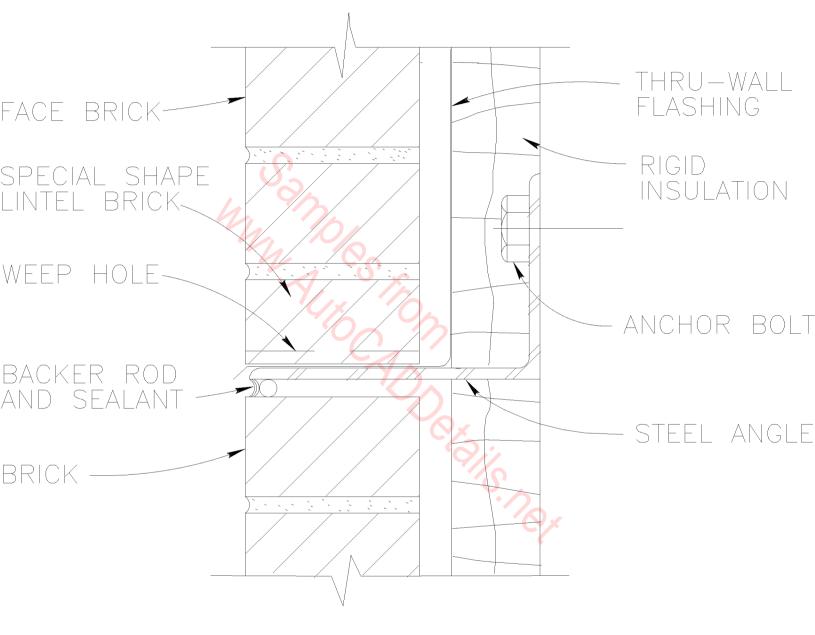


CORNER DETAIL, 6-INCH TO 8-INCH CMU WALL

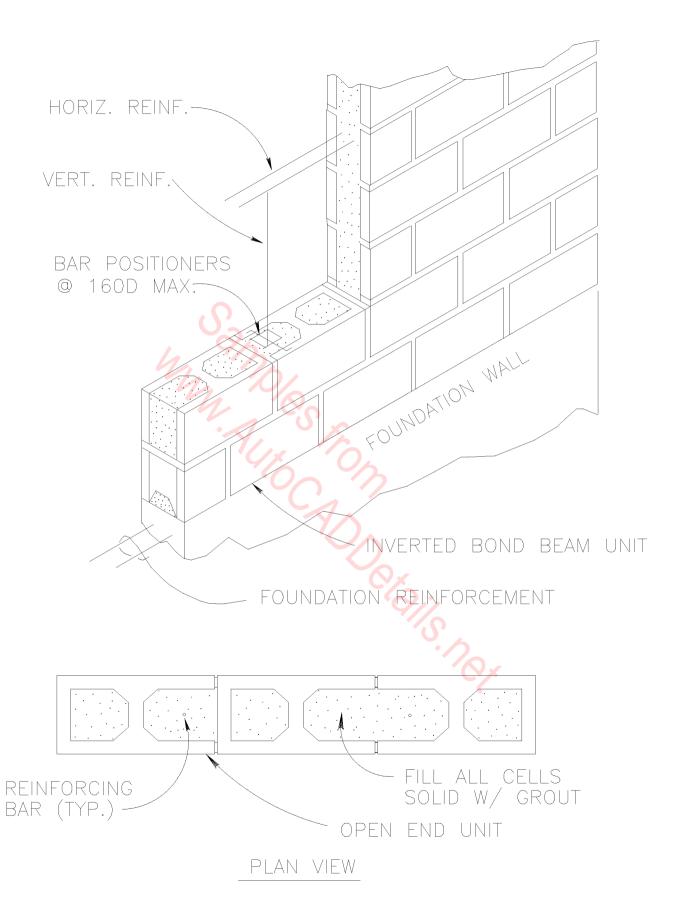


CORNER DETAIL, 8-INCH TO 12-INCH CMU WALL

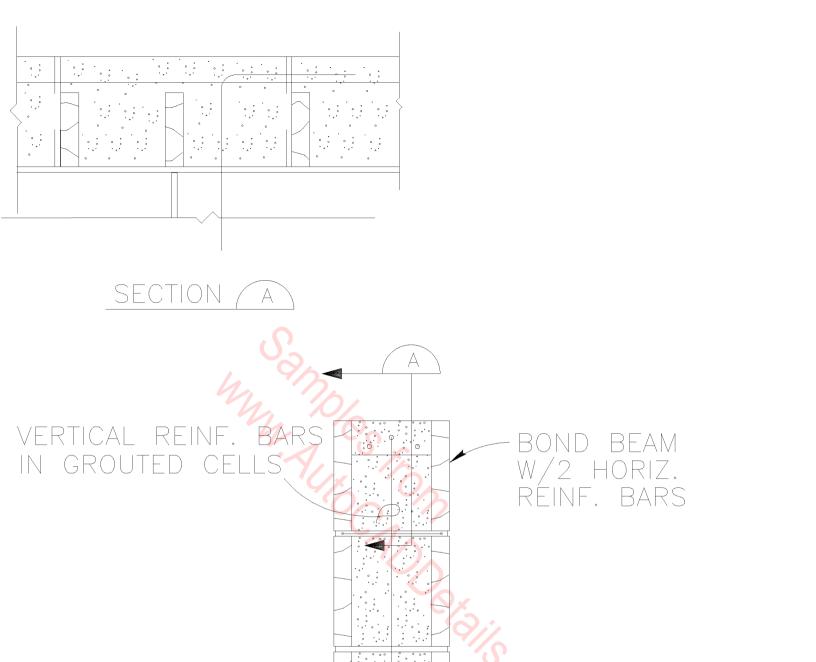




SHELF ANGLE OPTION



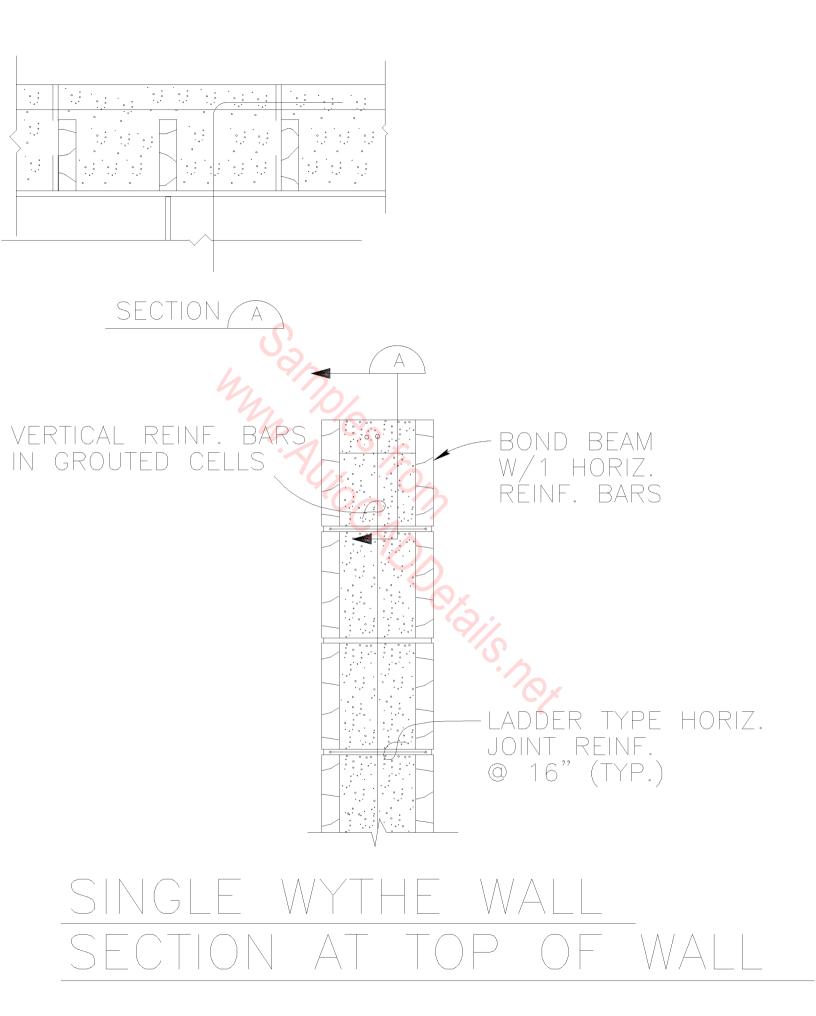
SINGLE WYTHE WALL FULLY GROUTED

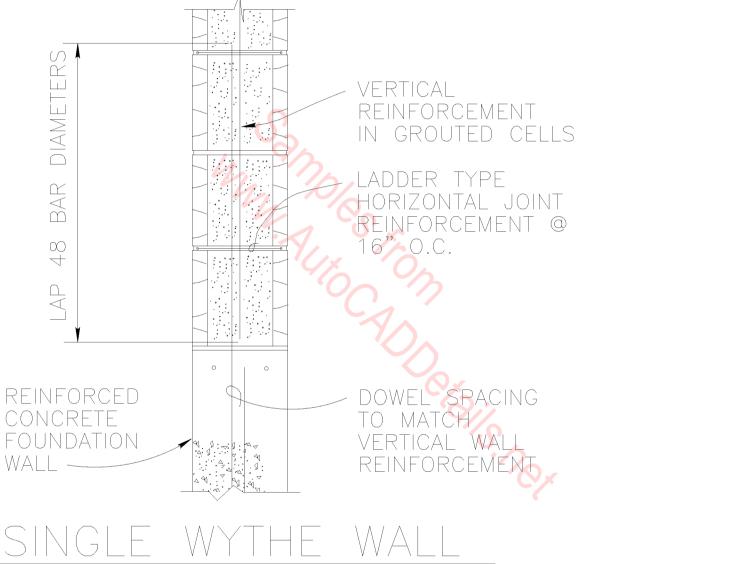


SINGLE WYTHE WALL SECTION AT TOP OF WALL

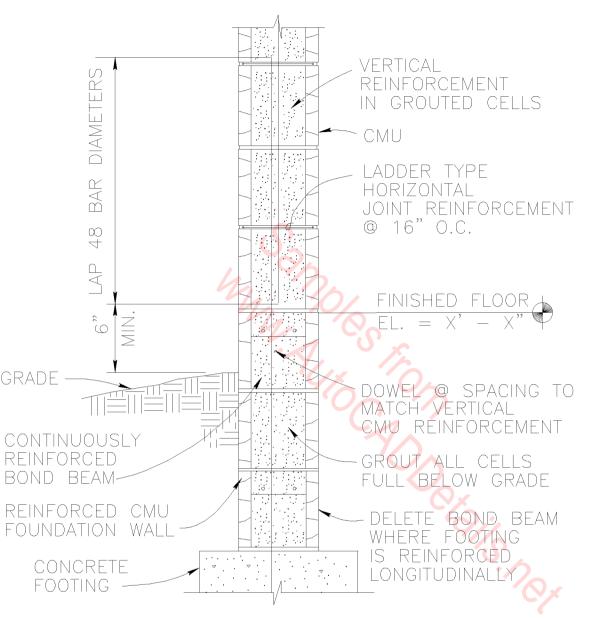
TYPE HORIZ.

JOINT REINF. @ 16" (TYP.)



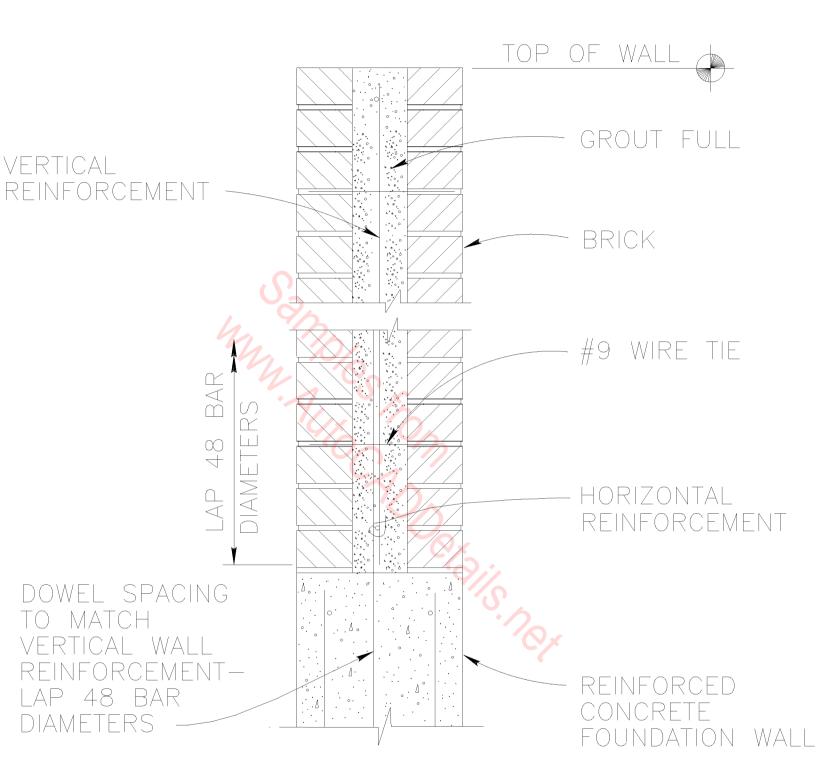


<u>single wythe wall</u> section at base (conc. found.)

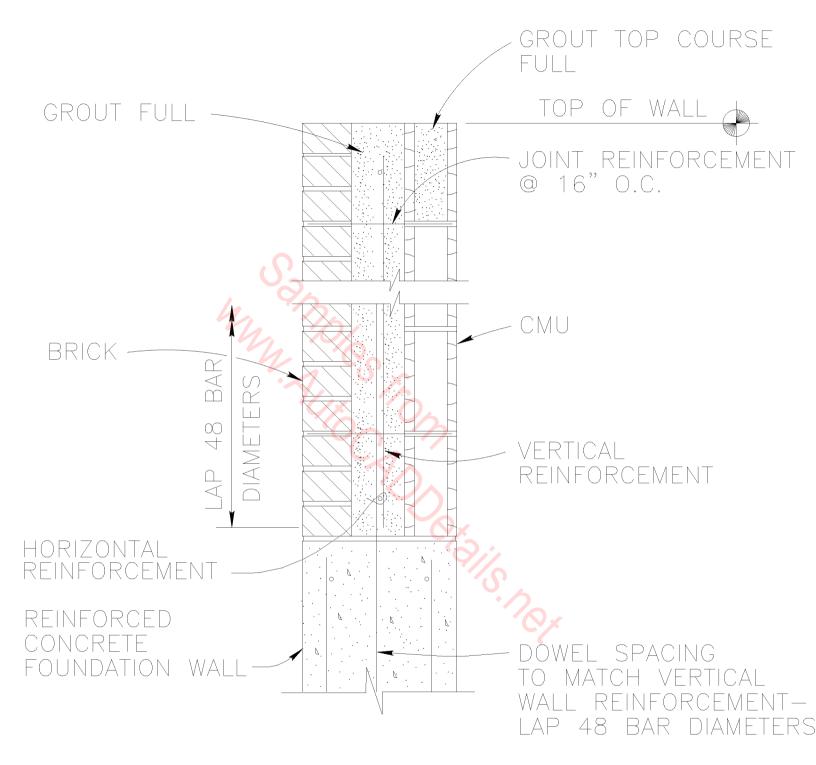


NOTE: TOP OF DOOR FRAME MUST MATCH COURSING TO PREVENT CUTTING CMU. OPTIONS ARE: VARYING DOOR FRAME HEAD OR VARYING DOOR HEIGHT. STARTING COURSING AT OTHER THAN FINISH FLOOR LEVEL IS NOT RECOMMENDED SINCE INTERIOR MASONRY WALLS PLACED ON THE FINISHED FLOOR MAY NEED TO COURSE WITH THE OTHER WALLS.

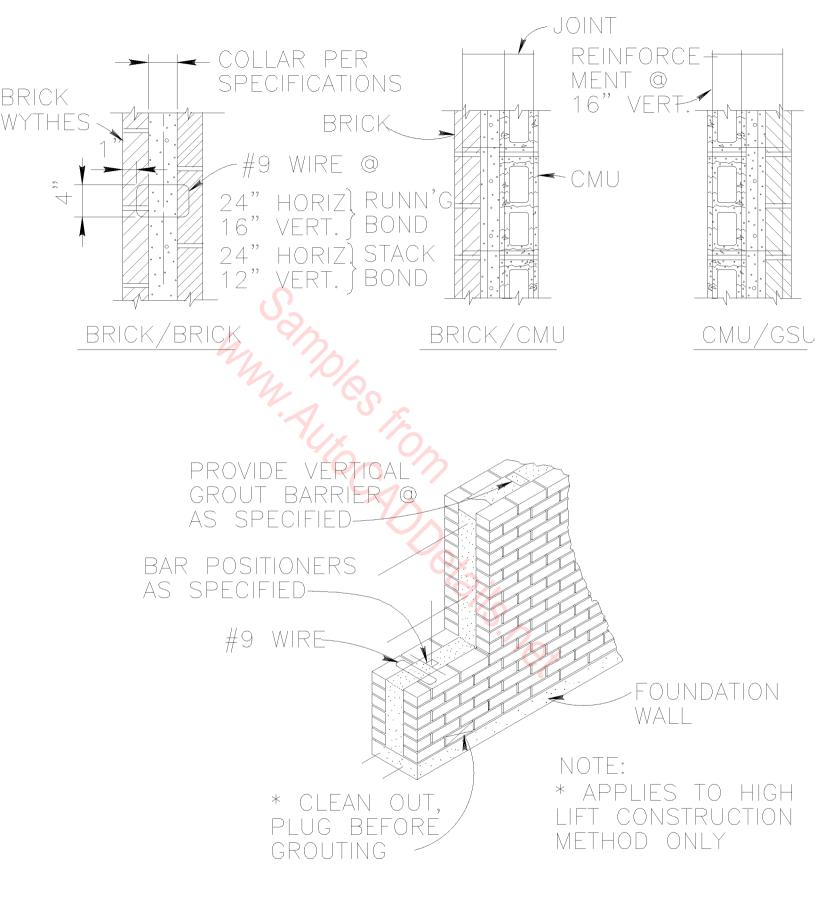
SINGLE WYTHE WALL SECTION AT BASE (CMU FOUND.)



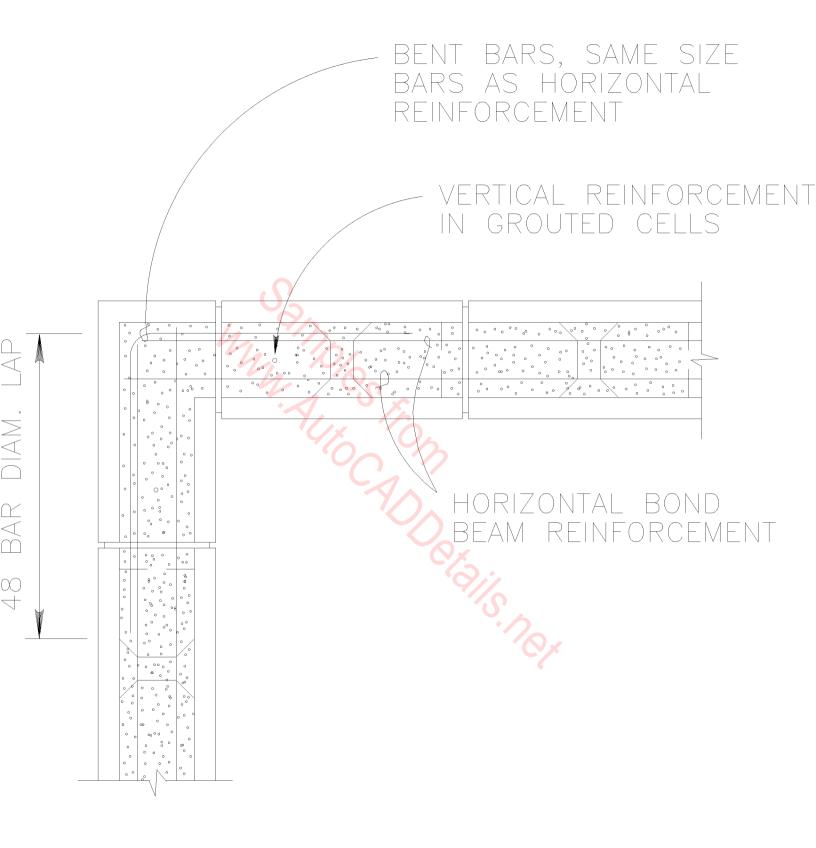
GROUTED MASONRY WALL SECTION (BRICK/BRICK)



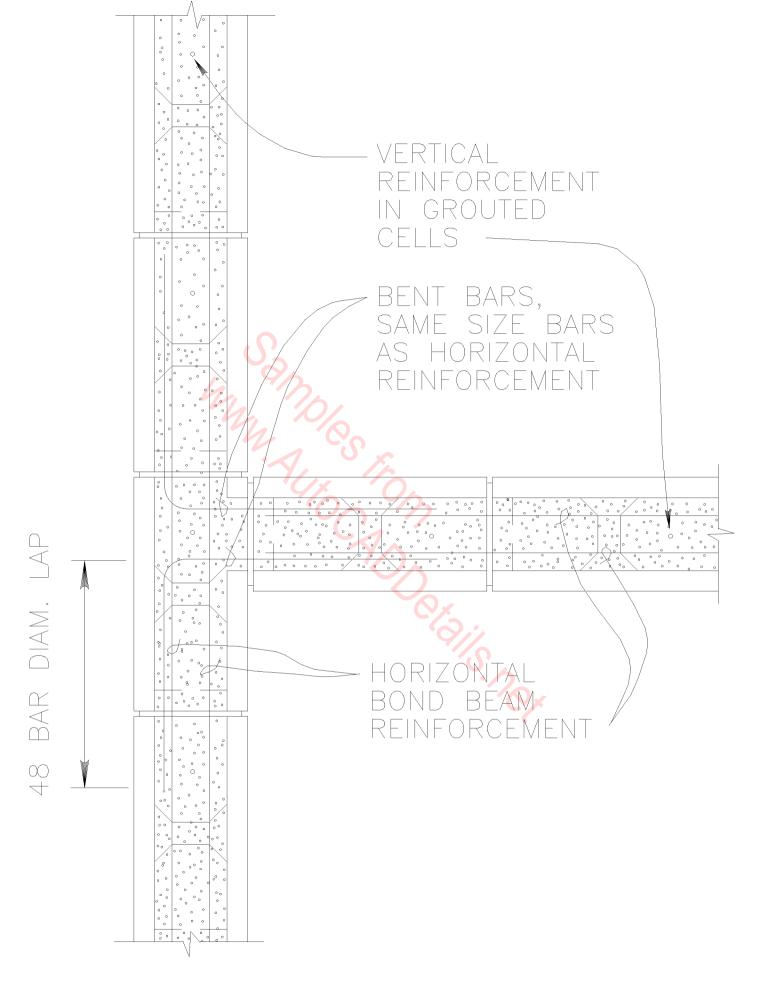
GROUTED MASONRY WALL
SECTION (BRICK/CMU)



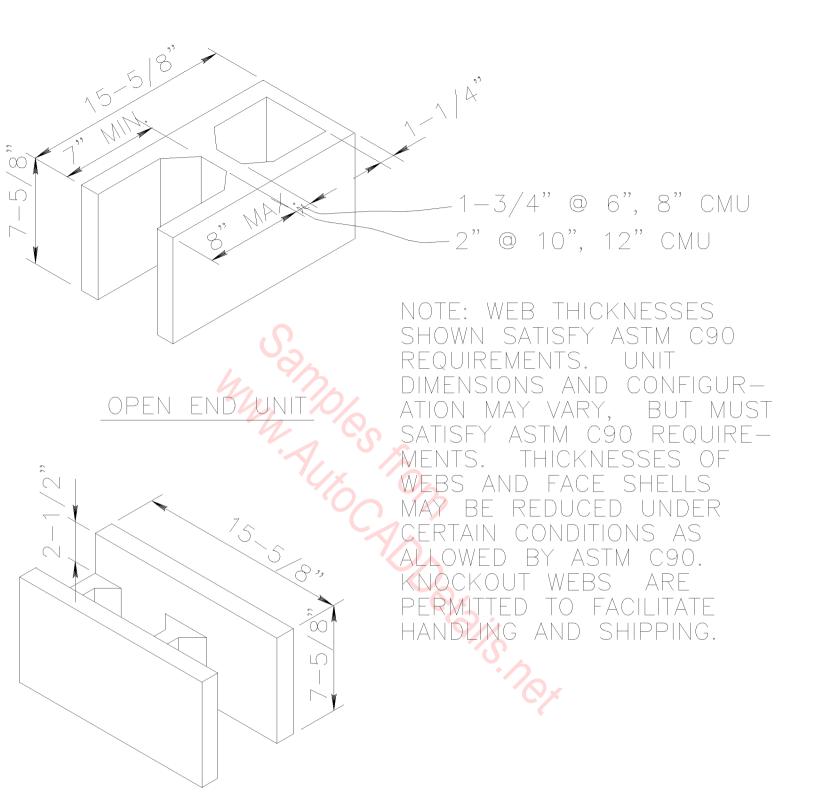
GROUTED MASONRY DETAILS



BOND BEAM CORNER



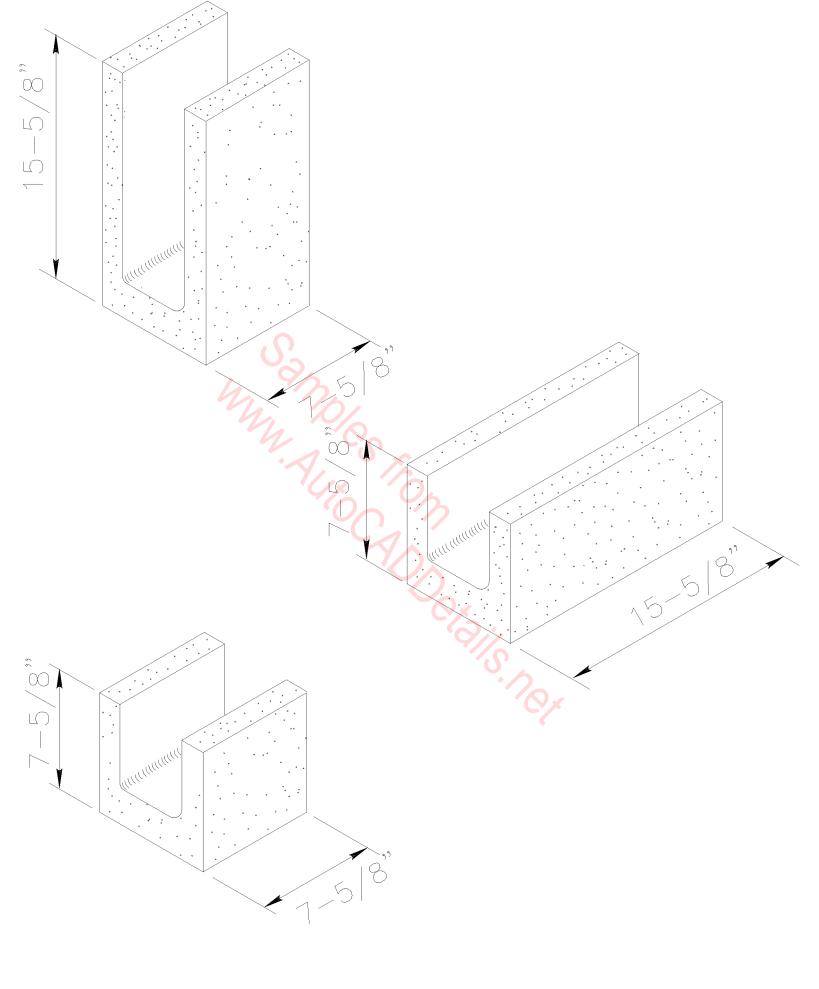
BOND BEAM INTERSECTION



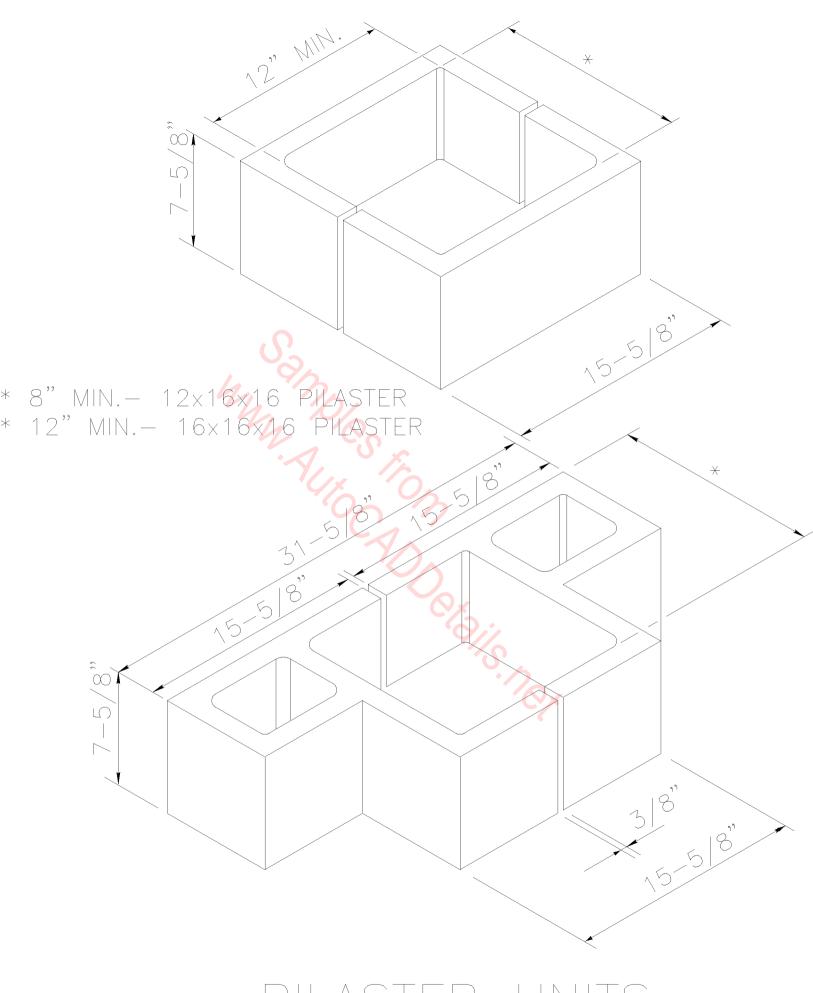
OPEN END BOND BEAM UNIT

NOTE: BOND BEAM UNITS MAY BE CUT FROM OPEN END UNITS.

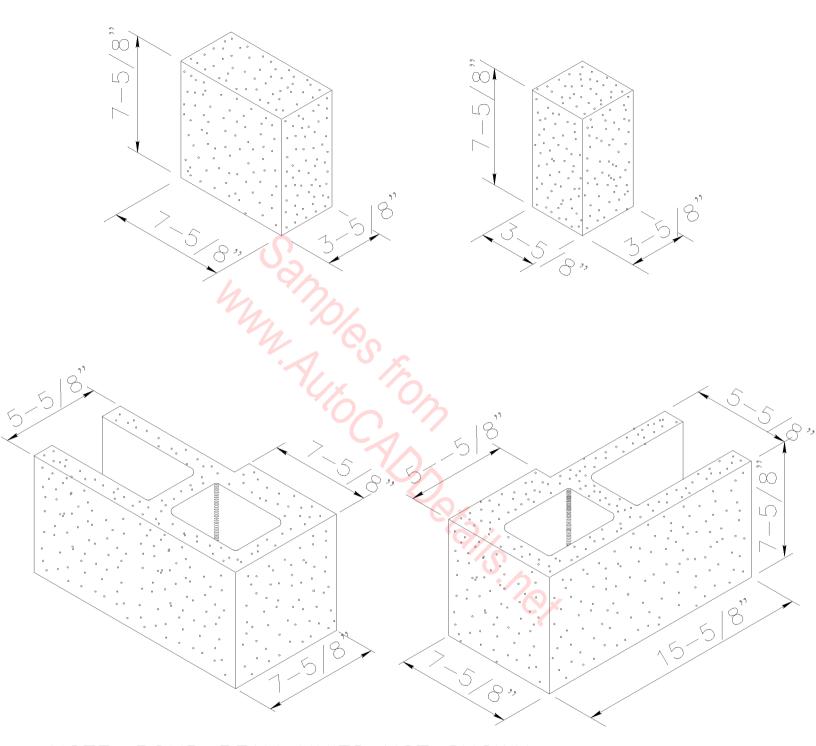
OPEN END UNITS



LINTEL UNITS

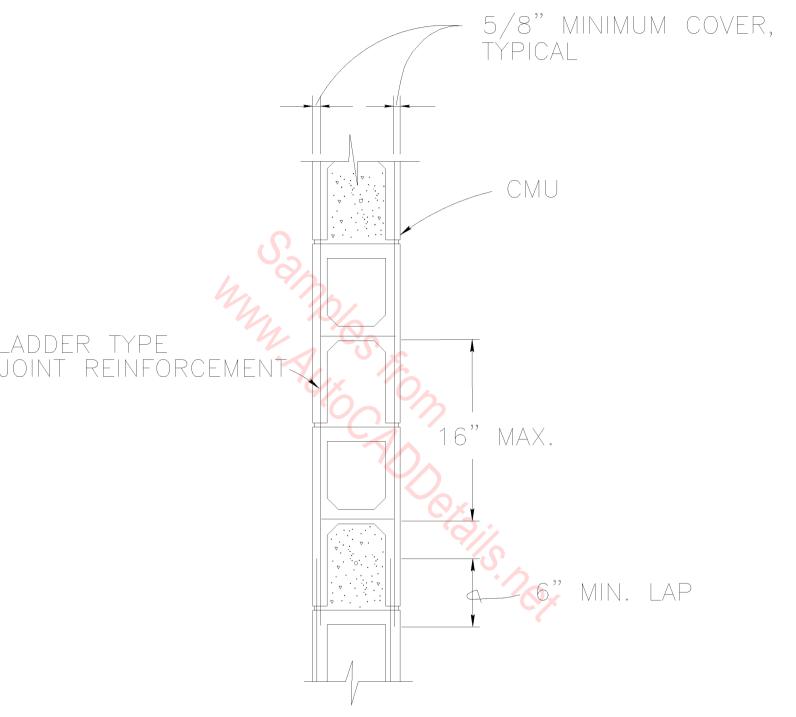


PILASTER UNITS



NOTE: BOND BEAM UNITS NOT SHOWN

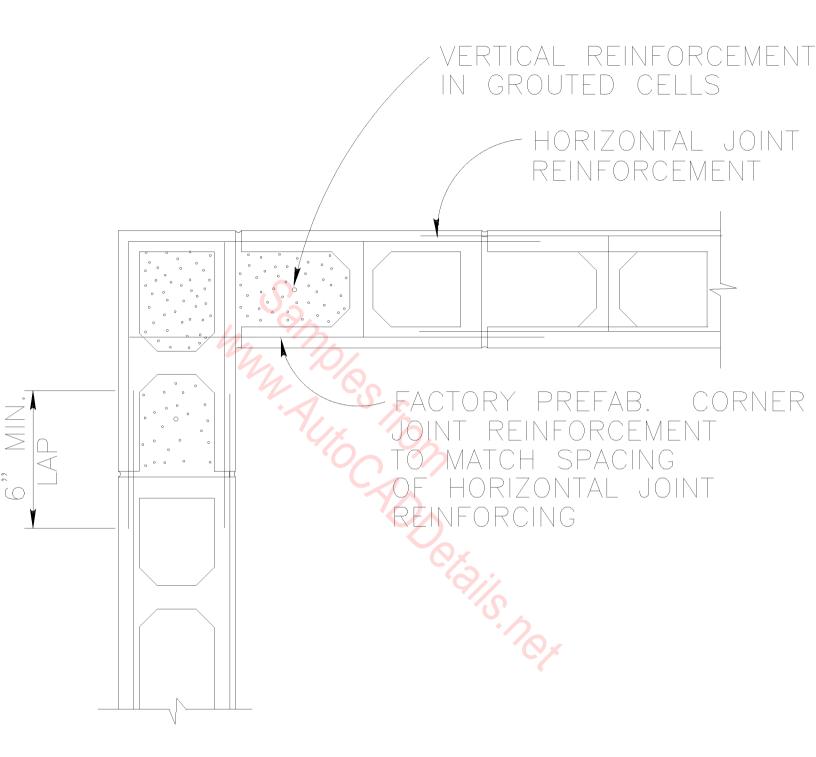
CORNER TRANSITION UNITS



JOINT REINFORCEMENT SINGLE

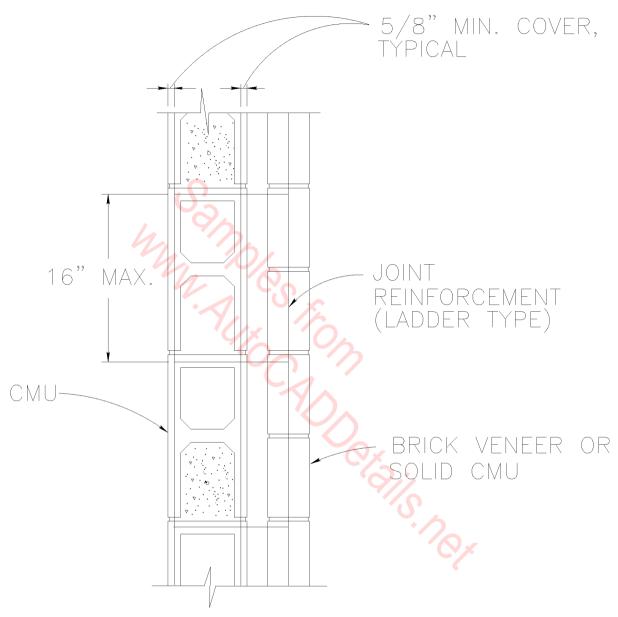
WYTHE WALL

SCALE: 1" = 1'-0"



JOINT REINFORCEMENT SINGLE WYTHE CORNER

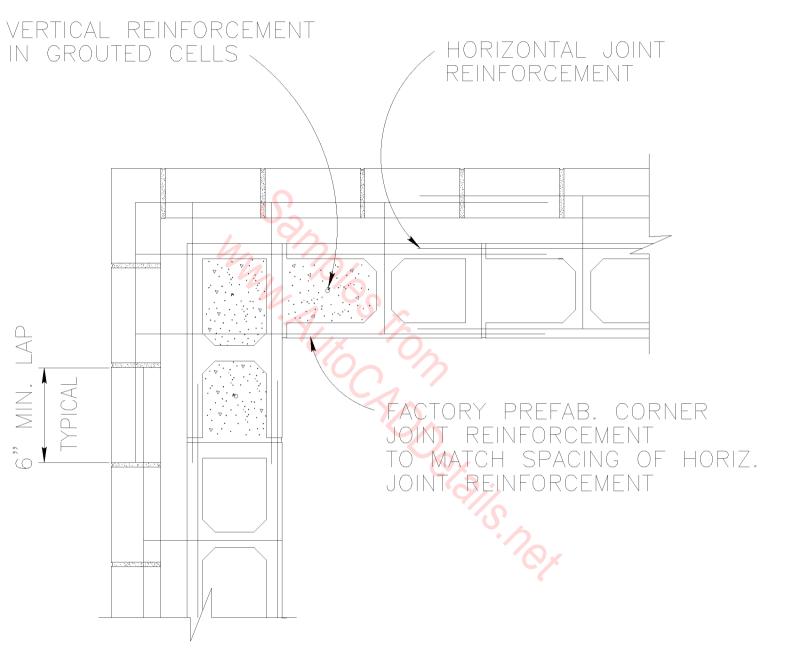
N.T.S.



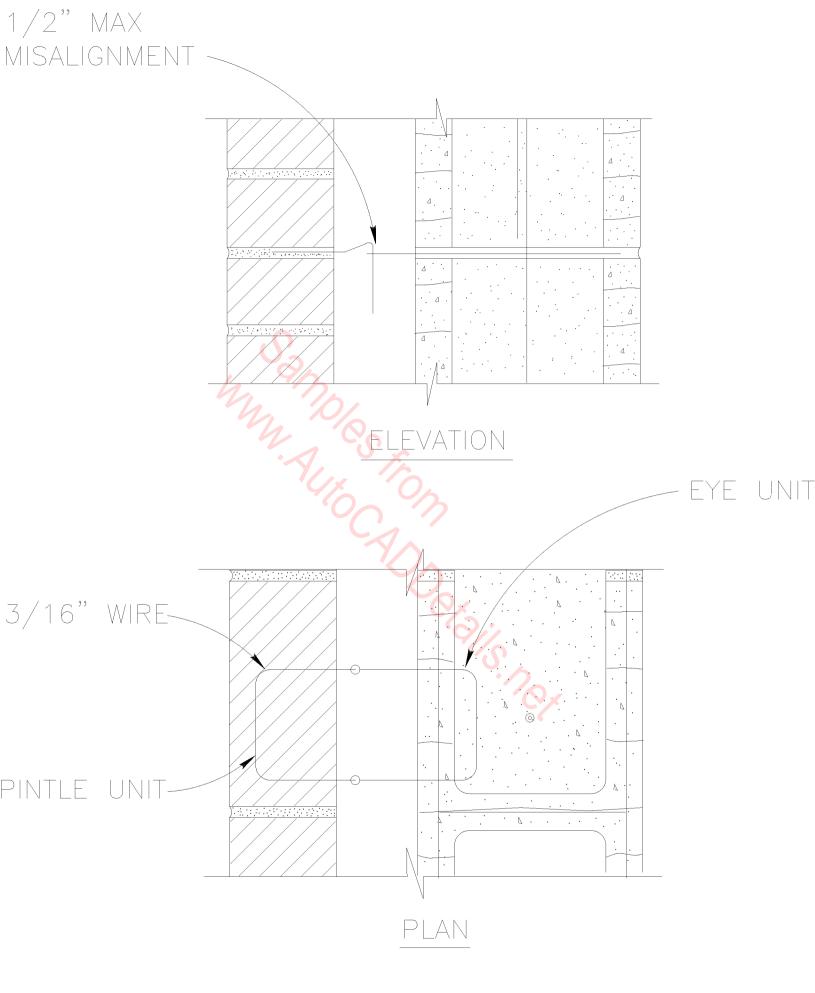
JOINT REINFORCEMENT MULTIPLE

WYTHE WALL

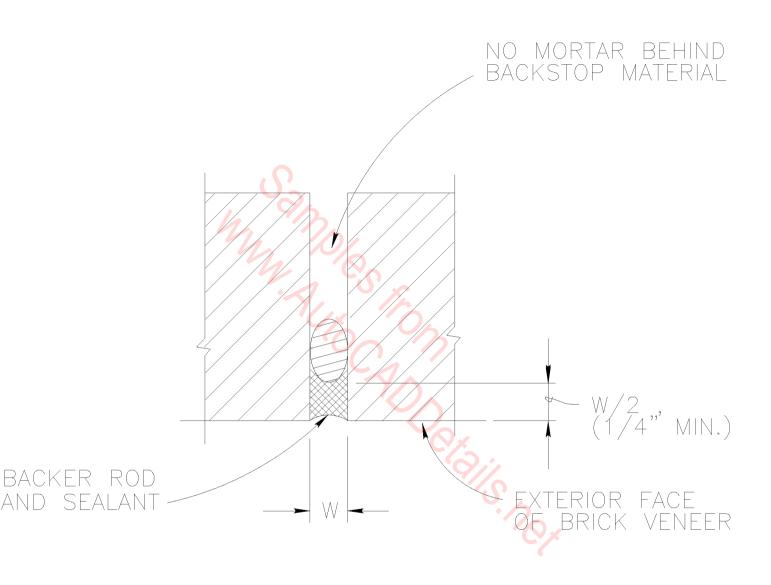
SCALE: 1" = 1'-0"



JOINT REINFORCEMENT MULTIPLE
WYTHE CORNER

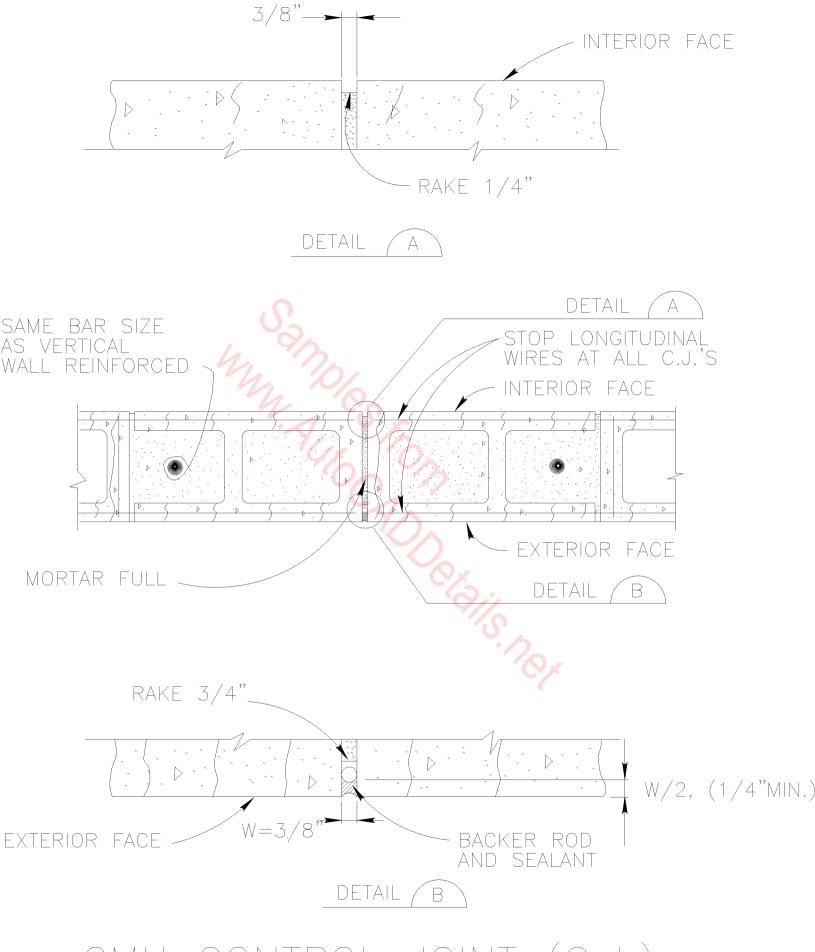


ADJUSTABLE TIES

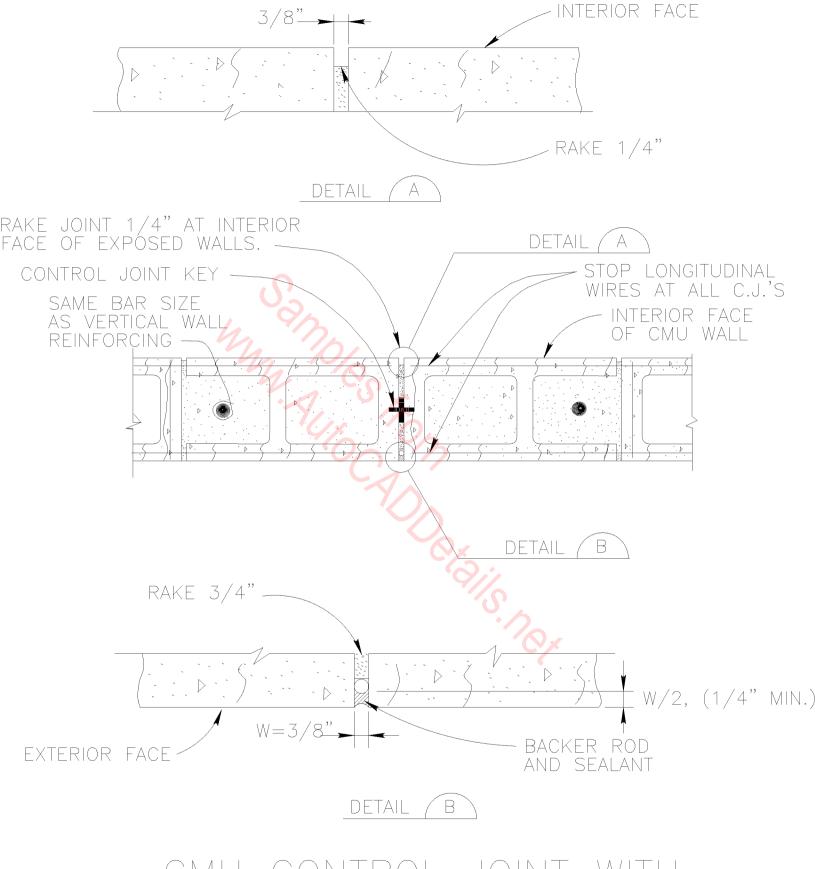


W = JOINT WIDTH

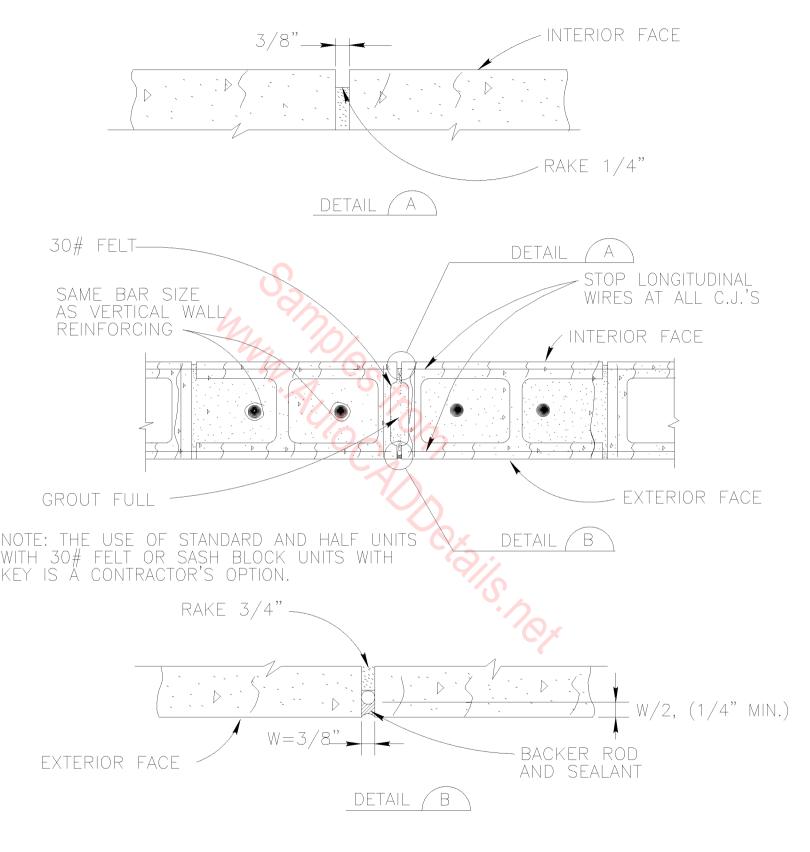
BRICK EXPANSION JOINT (B.E.J.)



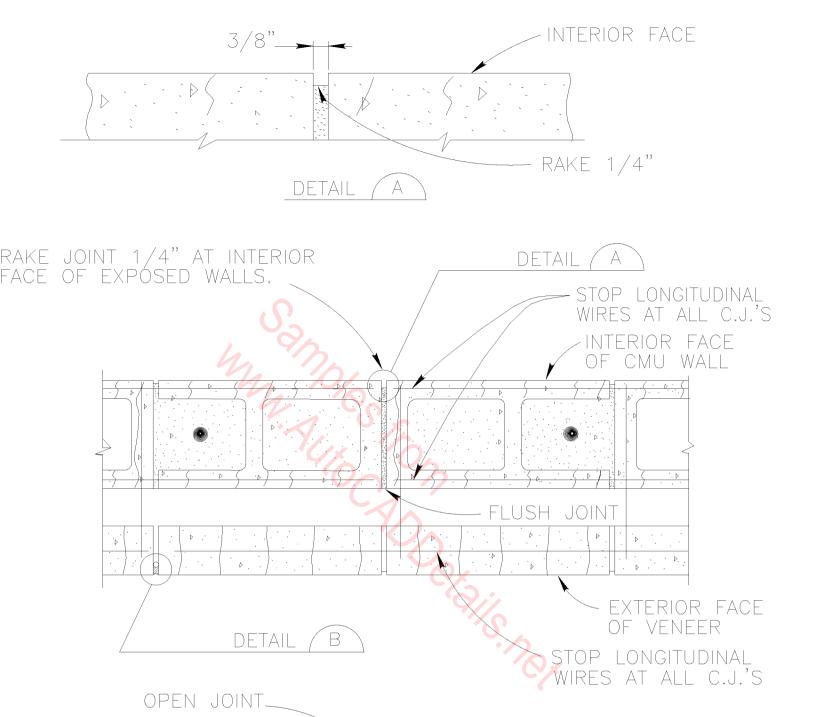
CMU CONTROL JOINT (C.J.)

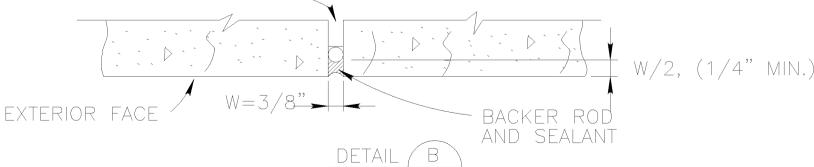


CMU CONTROL JOINT WITH
RUBBER KEY

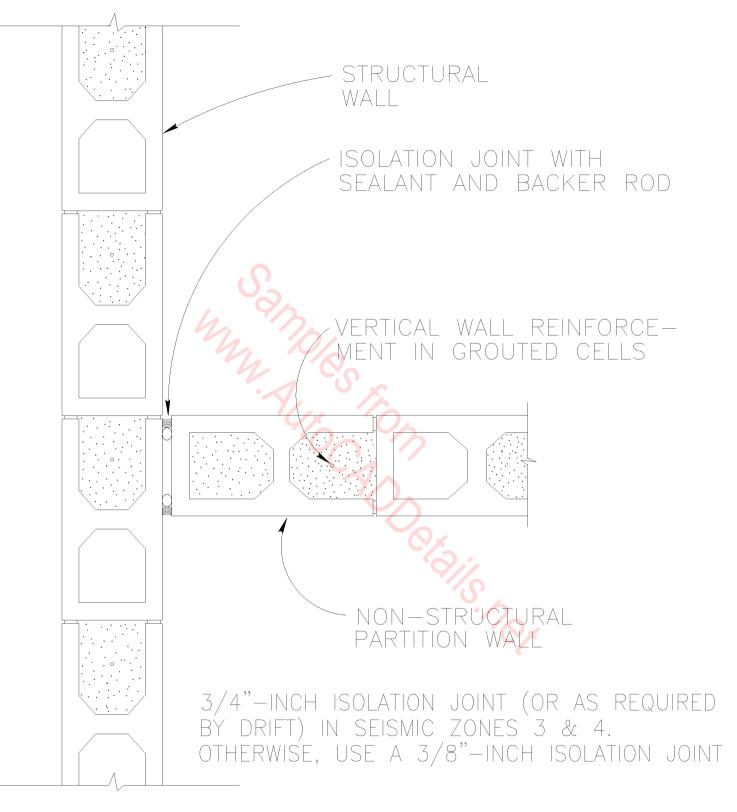


CMU CONTROL JOINT WITH GROUT KEY

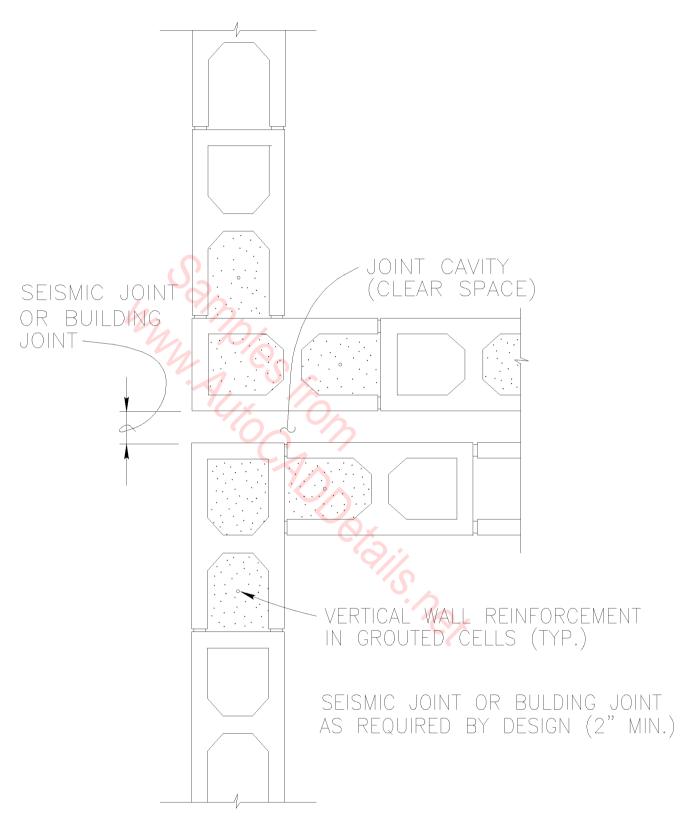




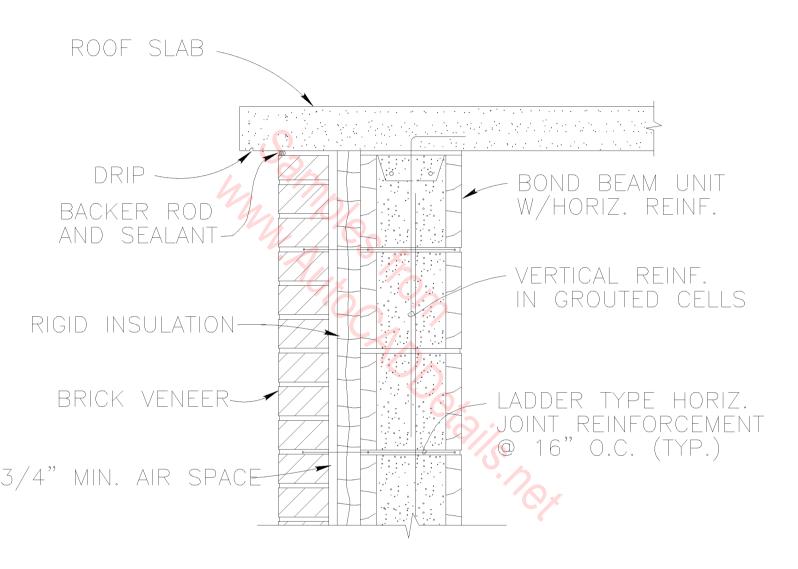
ANCHORED VENEER JOINT



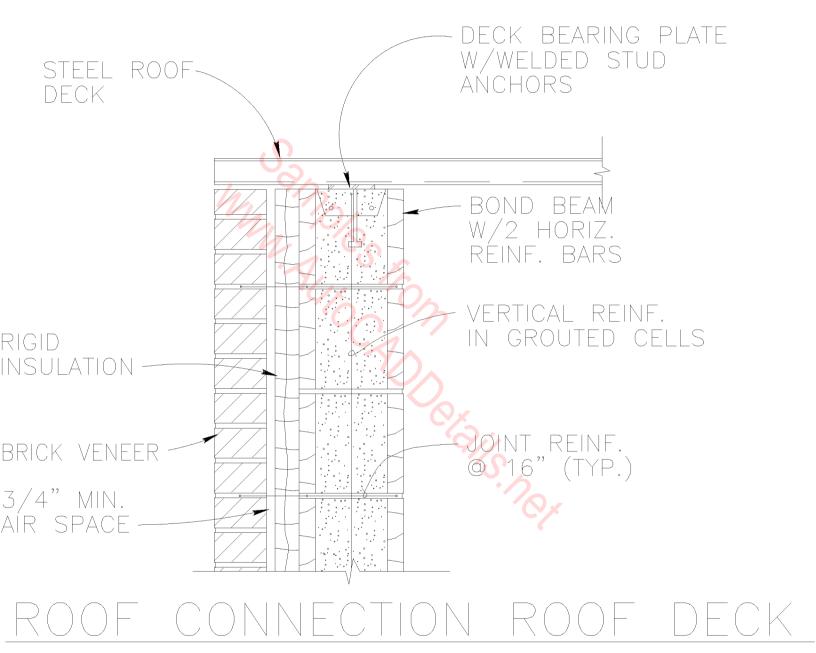
ISOLATION JOINT (PARTITION—STRUCTURAL WALL)

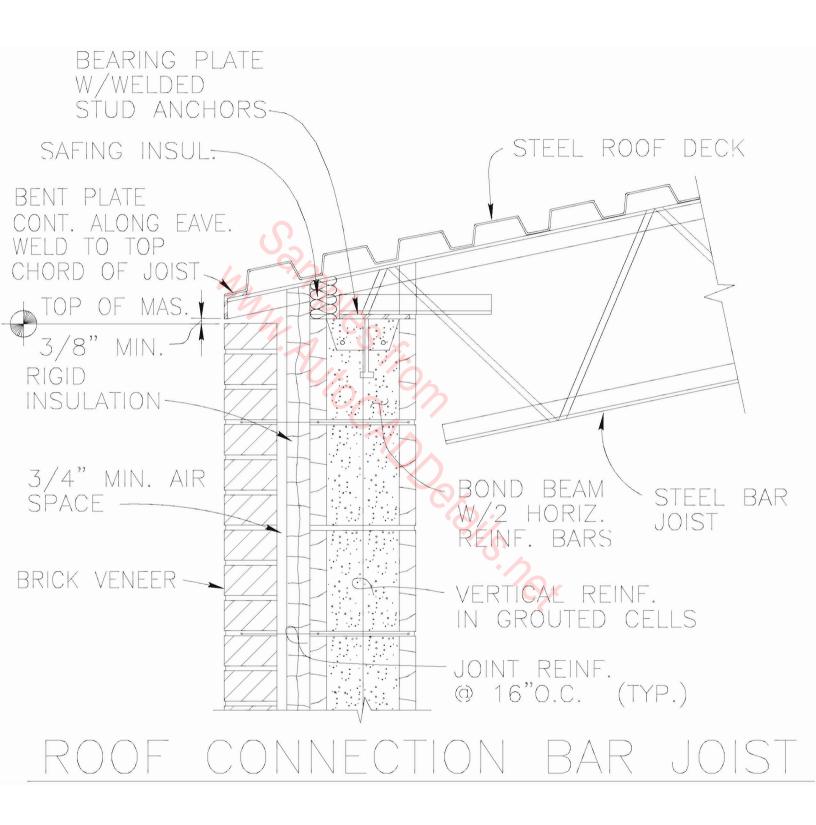


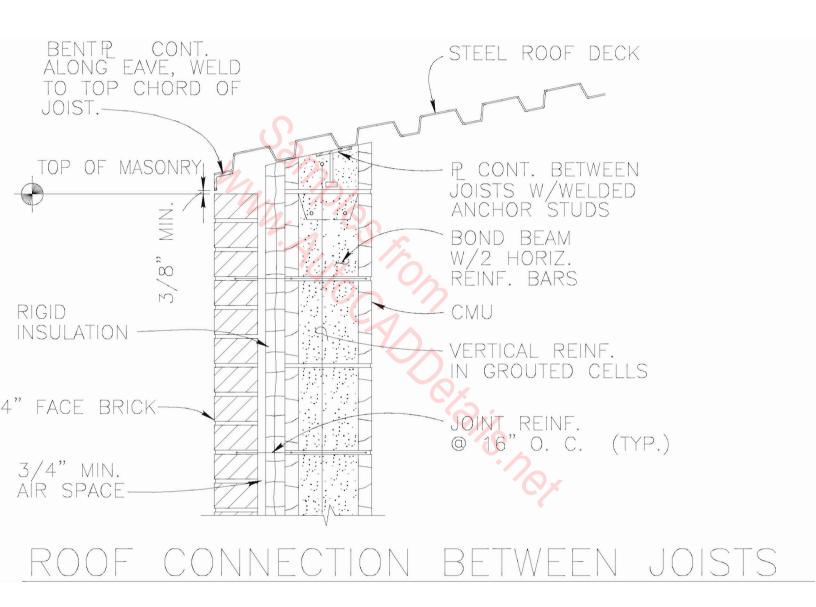
SEISMIC JOINT OR BUILDING JOINT

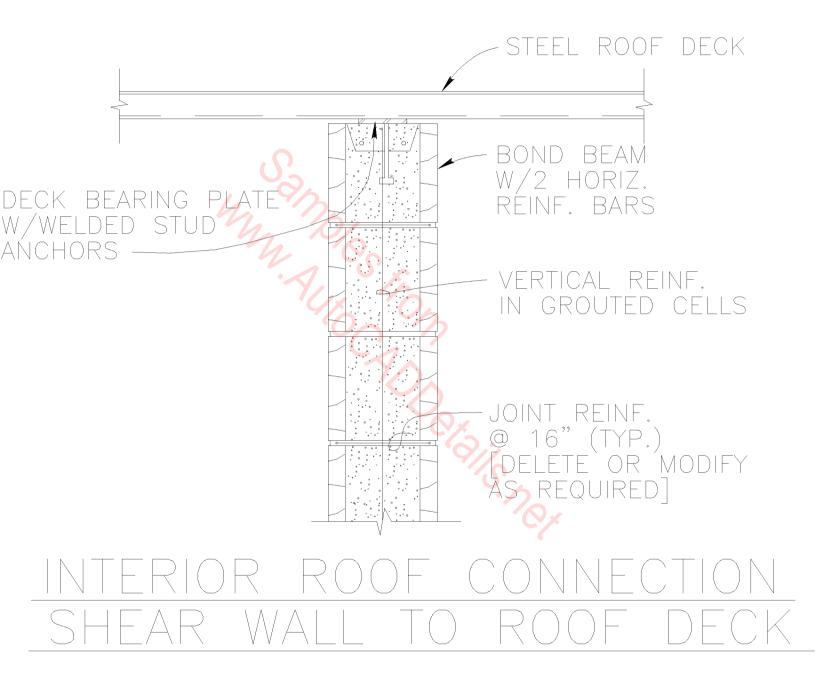


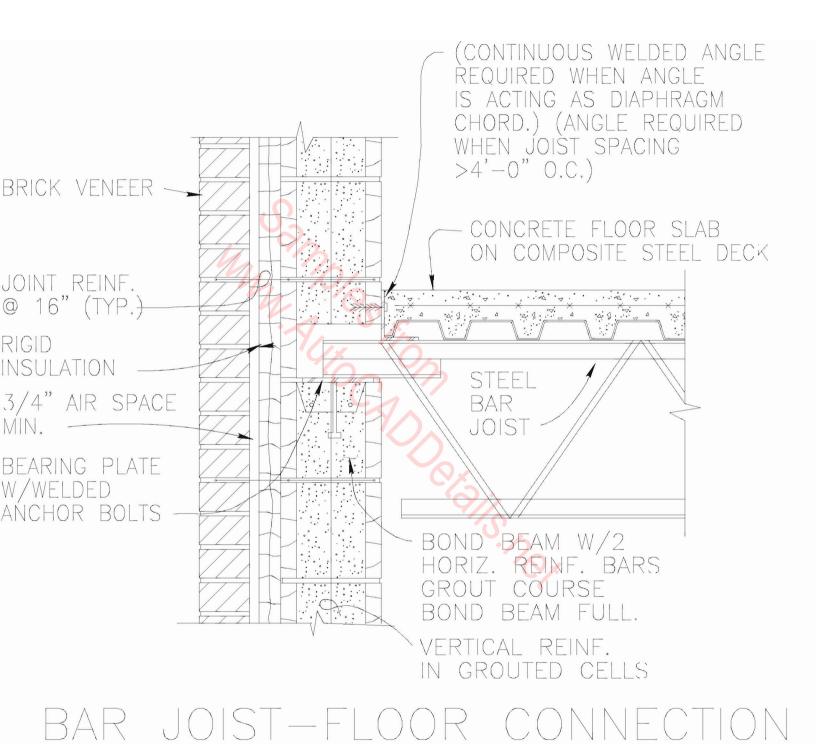
ROOF CONNECTION ROOF SLAB

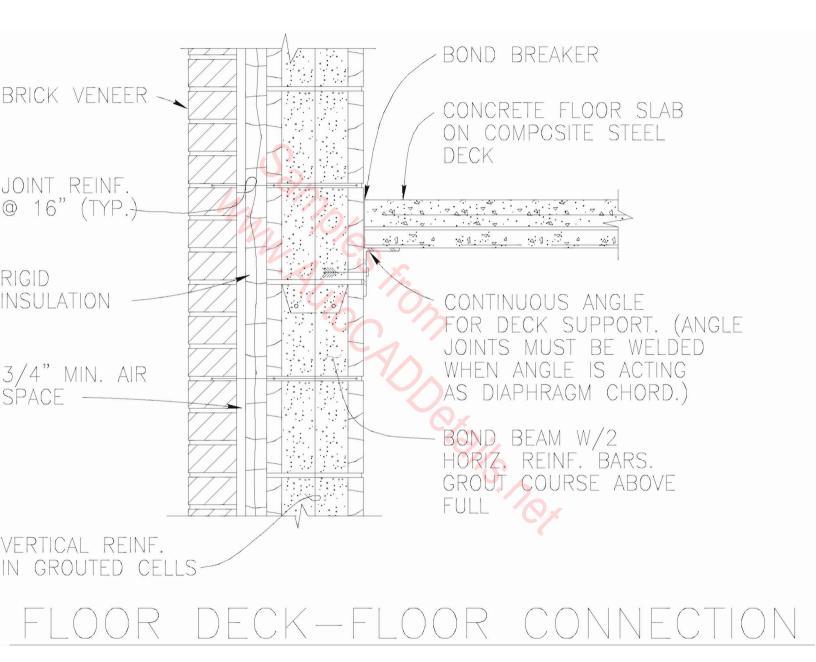


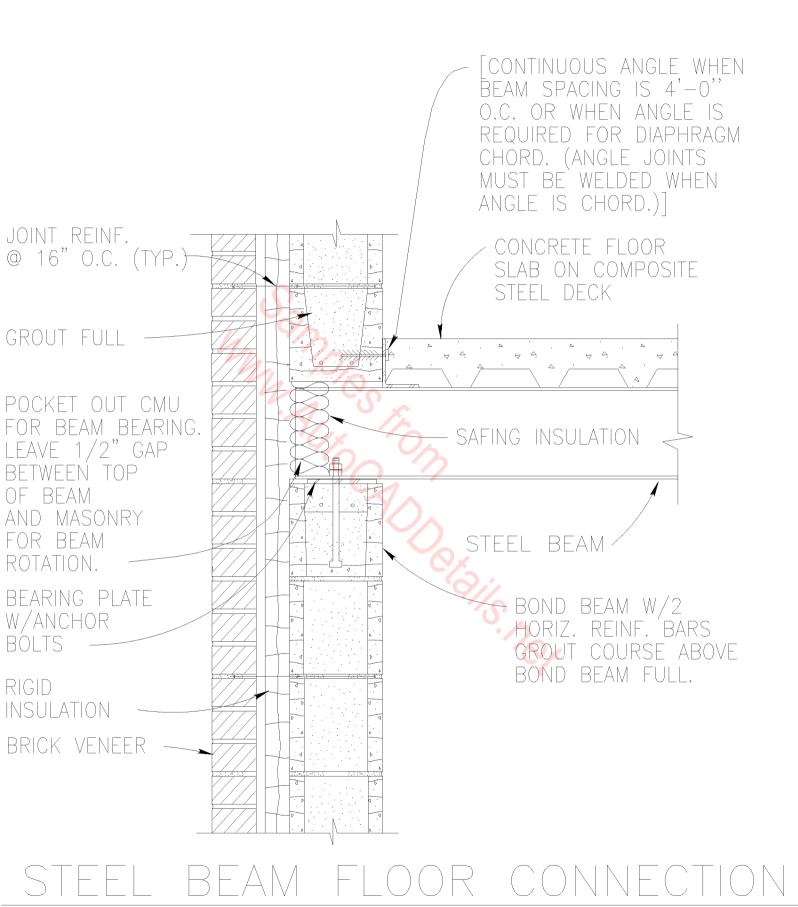


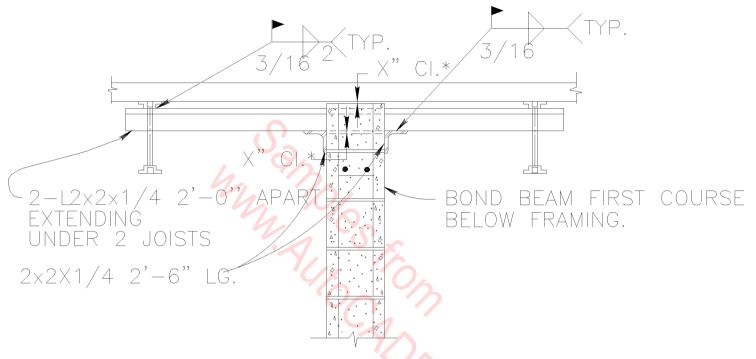








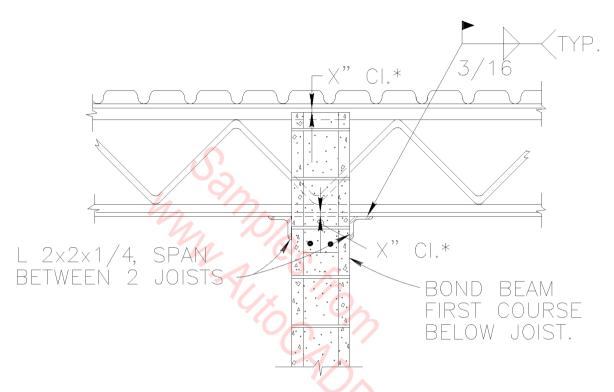




* X CLEAR DIMENSION SHALL BE AS REQUIRED BY JOIST DEFLECTION, BUT NOT LESS THAN 1-INCH.

NOTE: SPACE AT A MAXIMUM OF 8'-0" O.C. USING A MIN. OF TWO PER WALL IN ANY ONE DIRECTION.

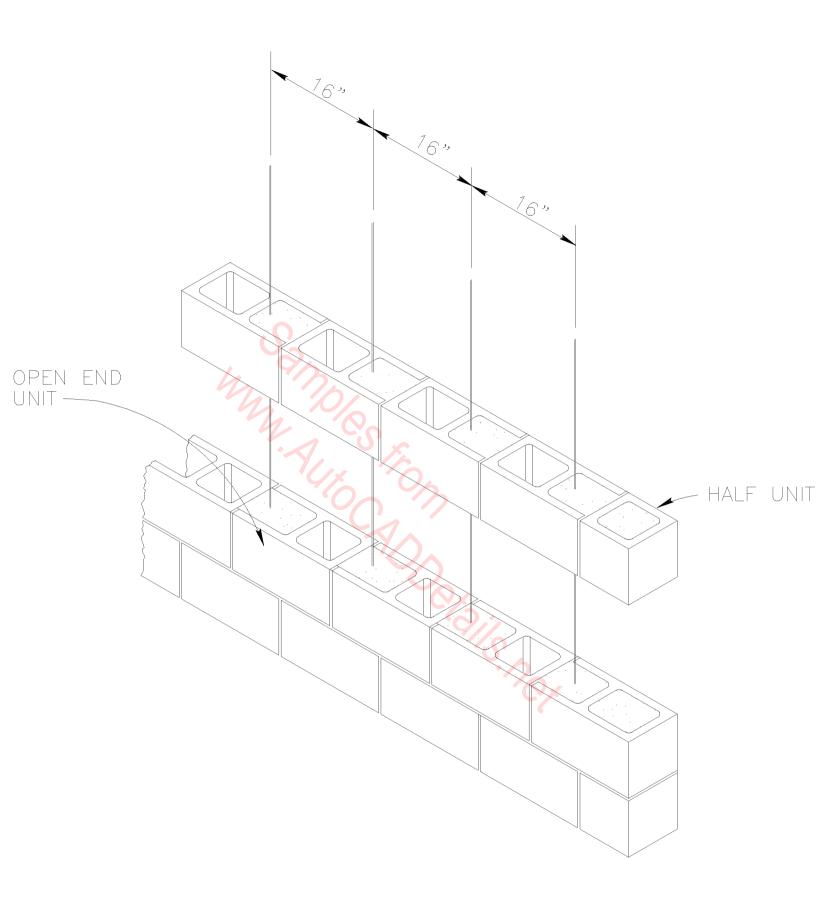
PARTITION SUPPORTS FULL HEIGHT WALL PARALLEL TO JOISTS



* X CLEAR DIMENSION SHALL BE AS REQUIRED BY JOIST DEFLECTION, BUT NOT LESS THAN 1—INCH.

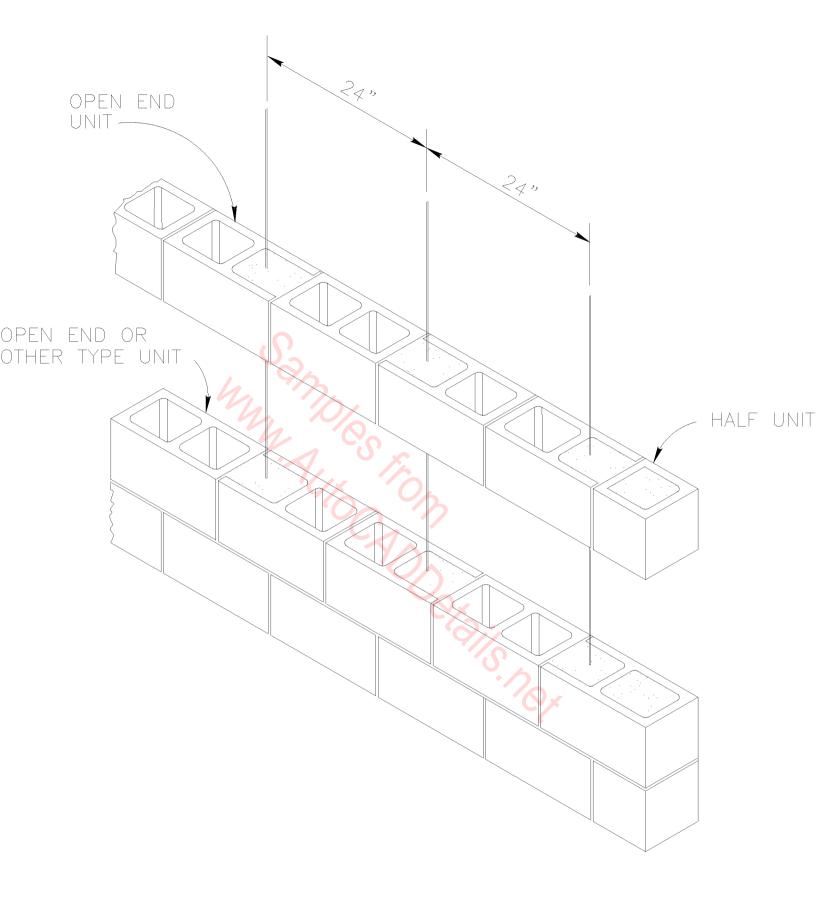
NOTE: SPACE AT A MAXIMUM OF 8'-0" O.C. USING A MIN. OF TWO PER WALL IN ANY ONE DIRECTION.

PARTITION SUPPORTS, FULL HEIGHT WALL PERPENDICULAR TO JOISTS

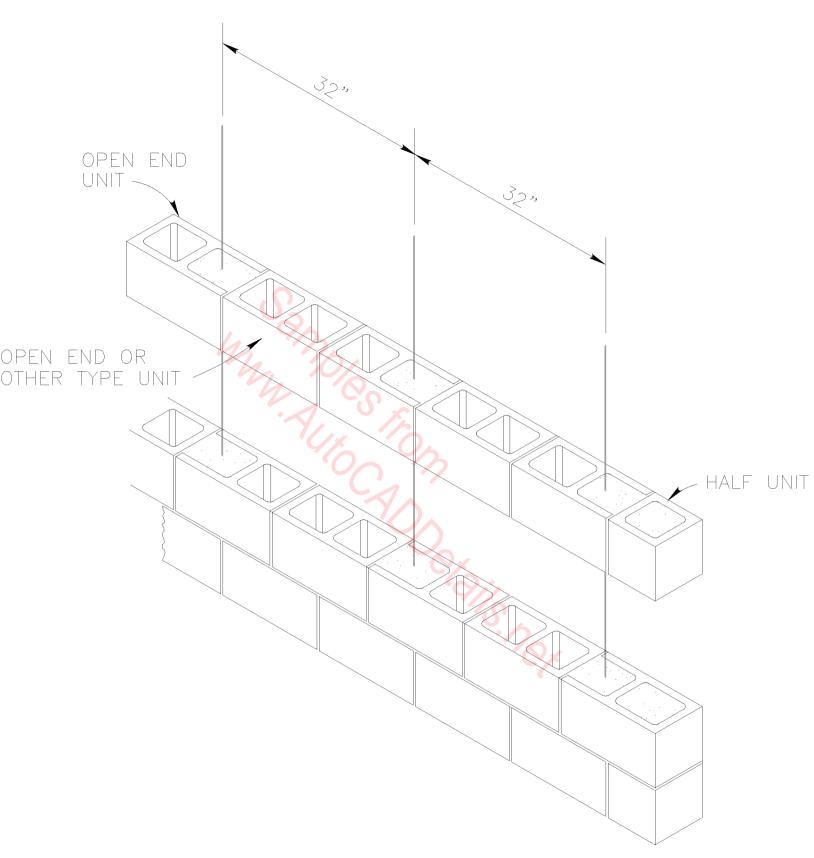


PARTIALLY GROUTED CMU

16-INCH REINFORCEMENT SPACING

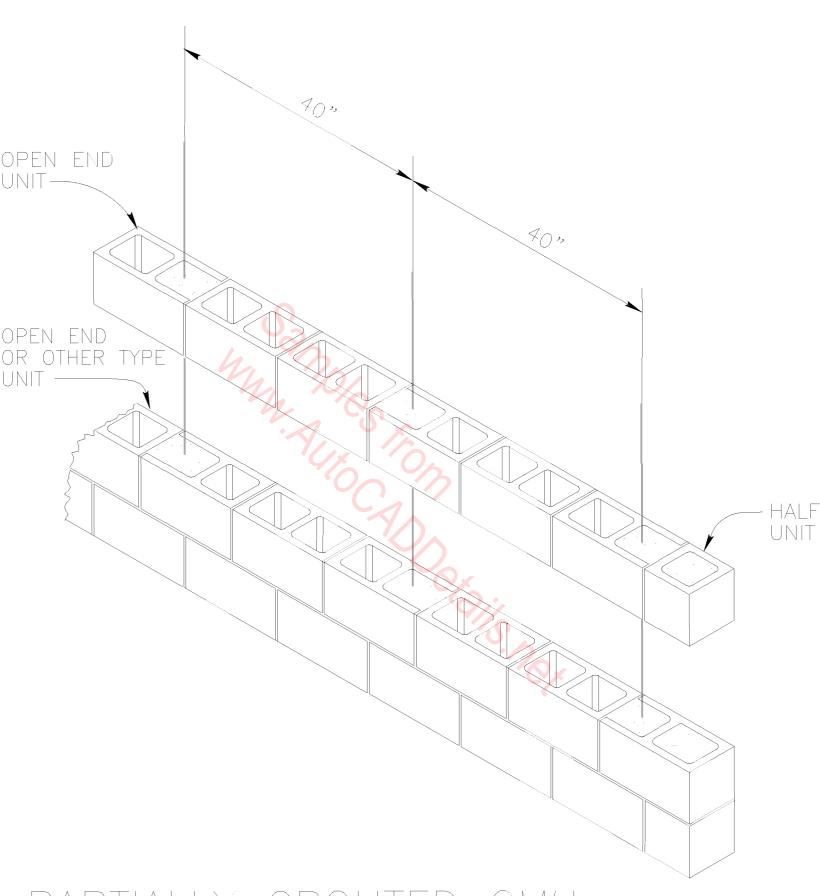


PARTIALLY GROUTED CMU 24-INCH REINFORCEMENT SPACING

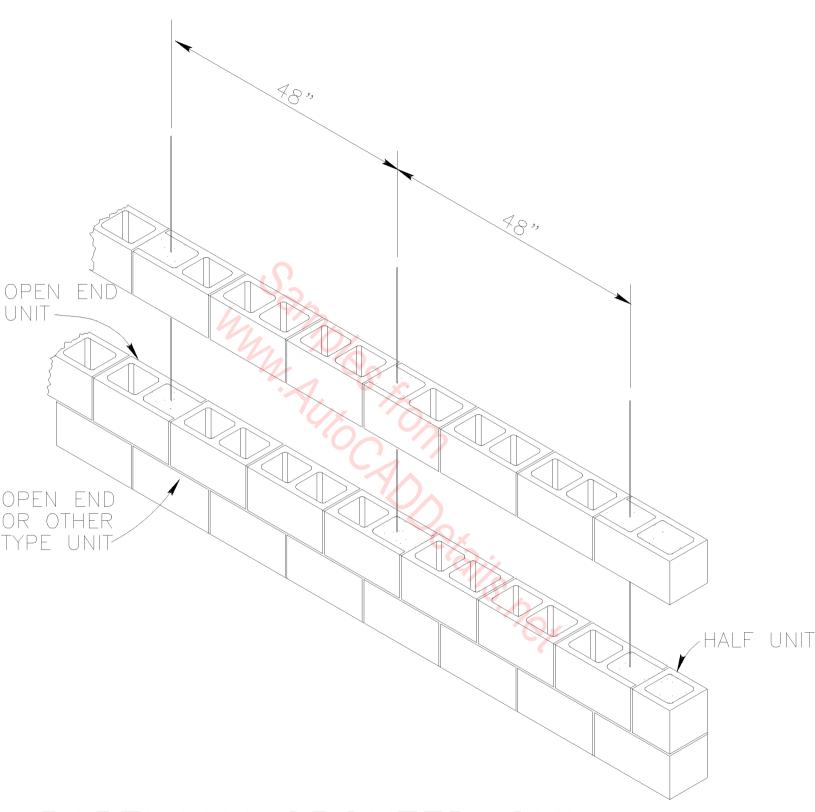


PARTIALLY GROUTED CMU

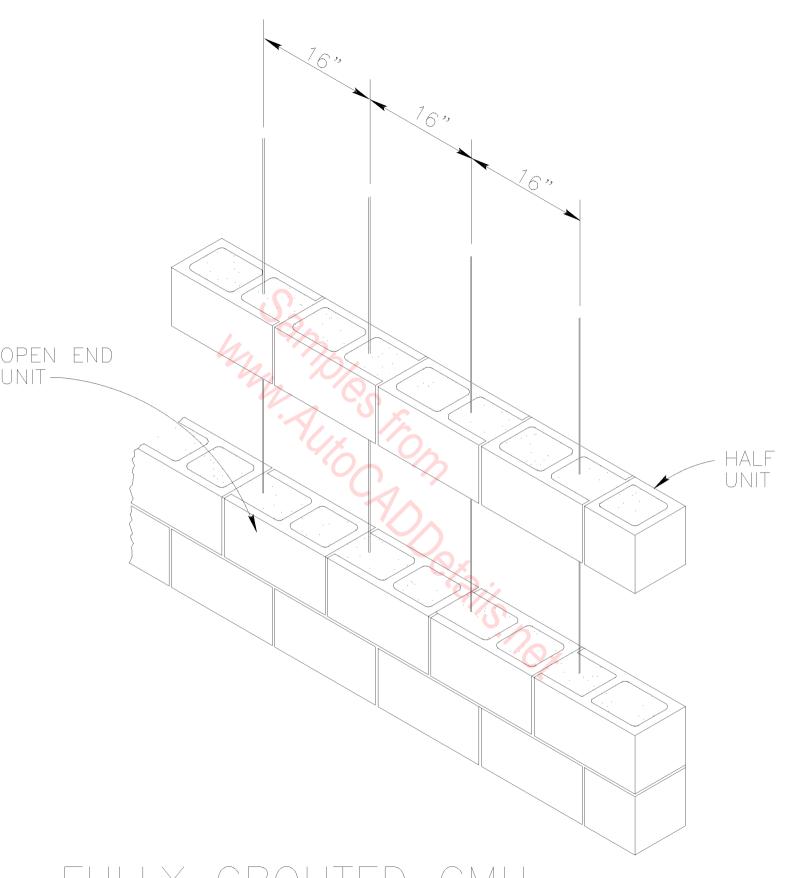
32-INCH REINFORCEMENT SPACING



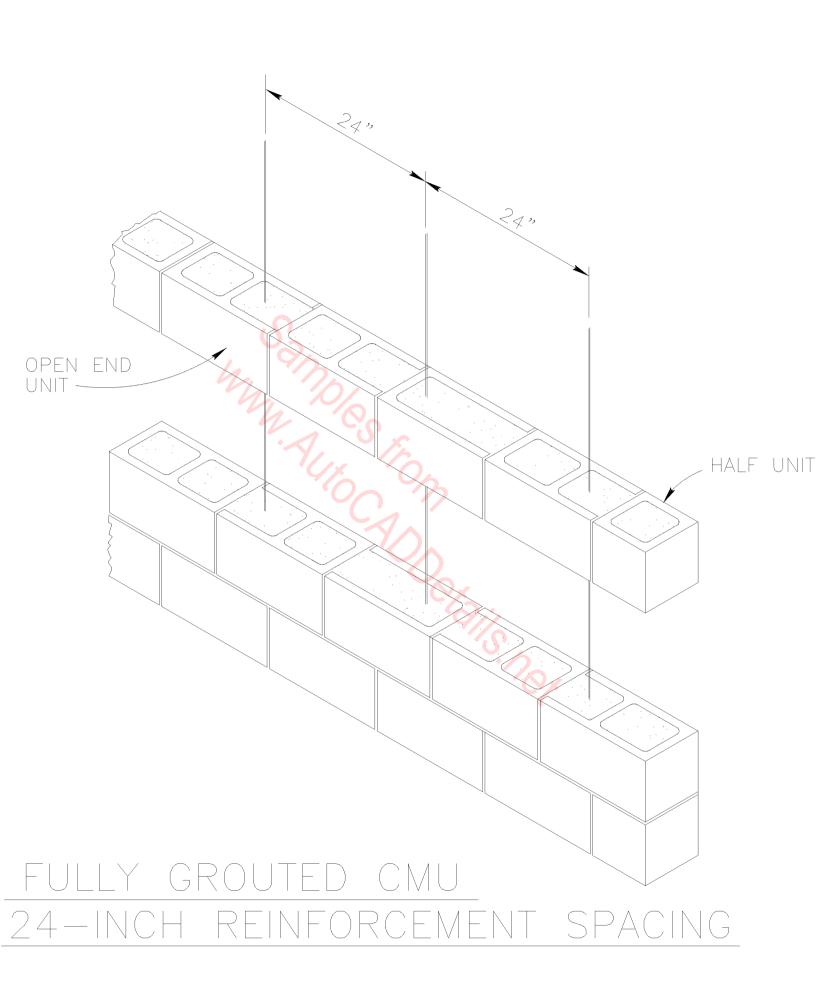
PARTIALLY GROUTED CMU 40-INCH REINFORCEMENT SPACING

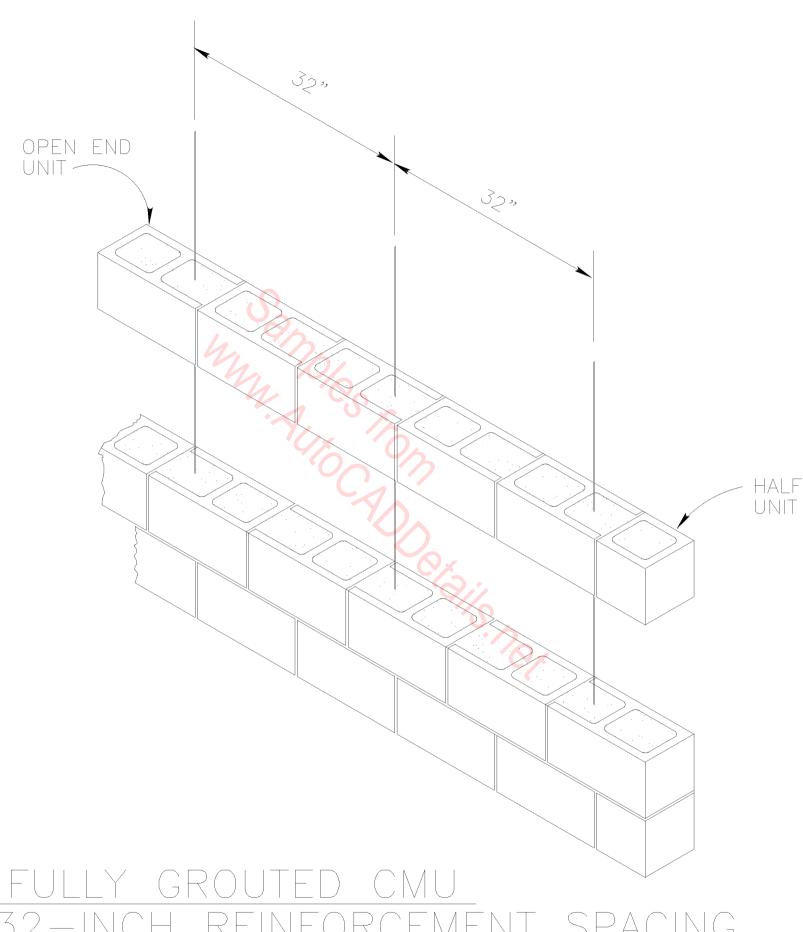


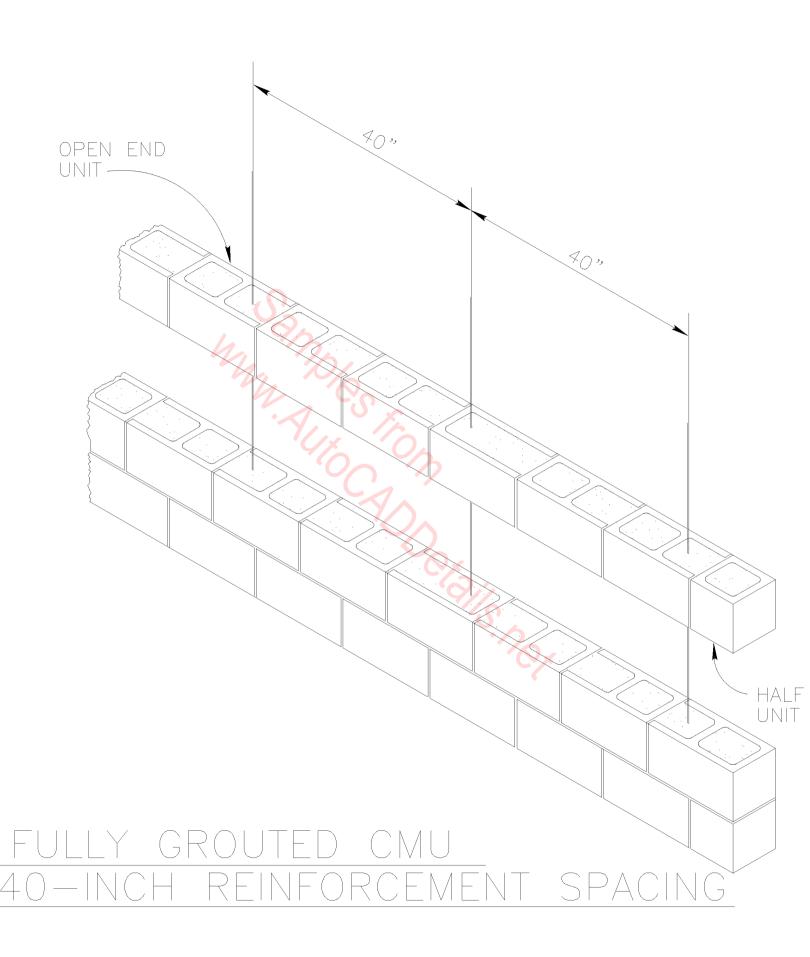
PARTIALLY GROUTED CMU 48-INCH REINFORCEMENT SPACING

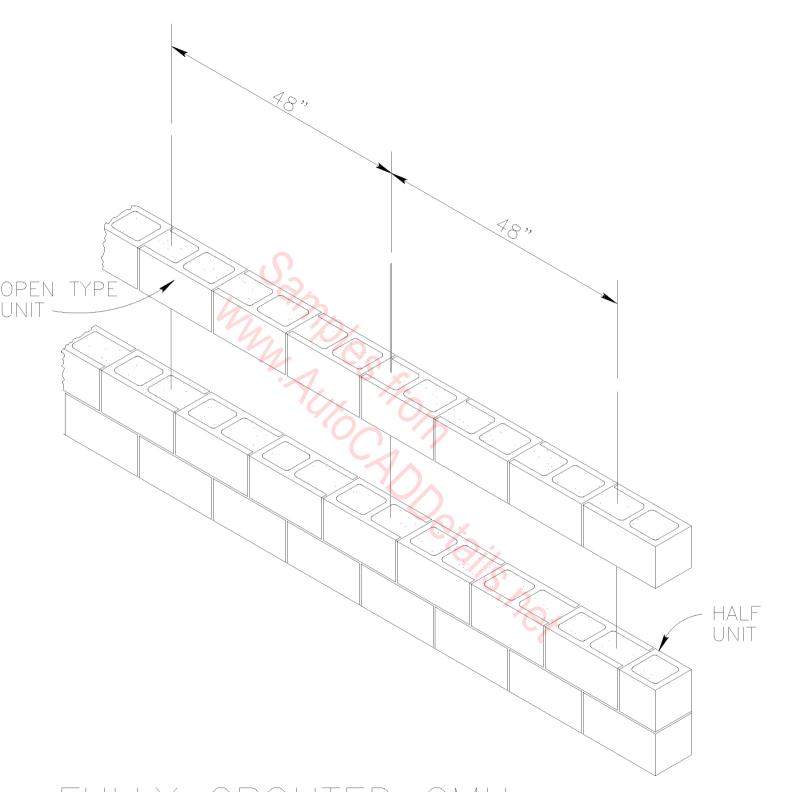


<u>fully grouied cmu</u> 16—inch reinforcement spacing

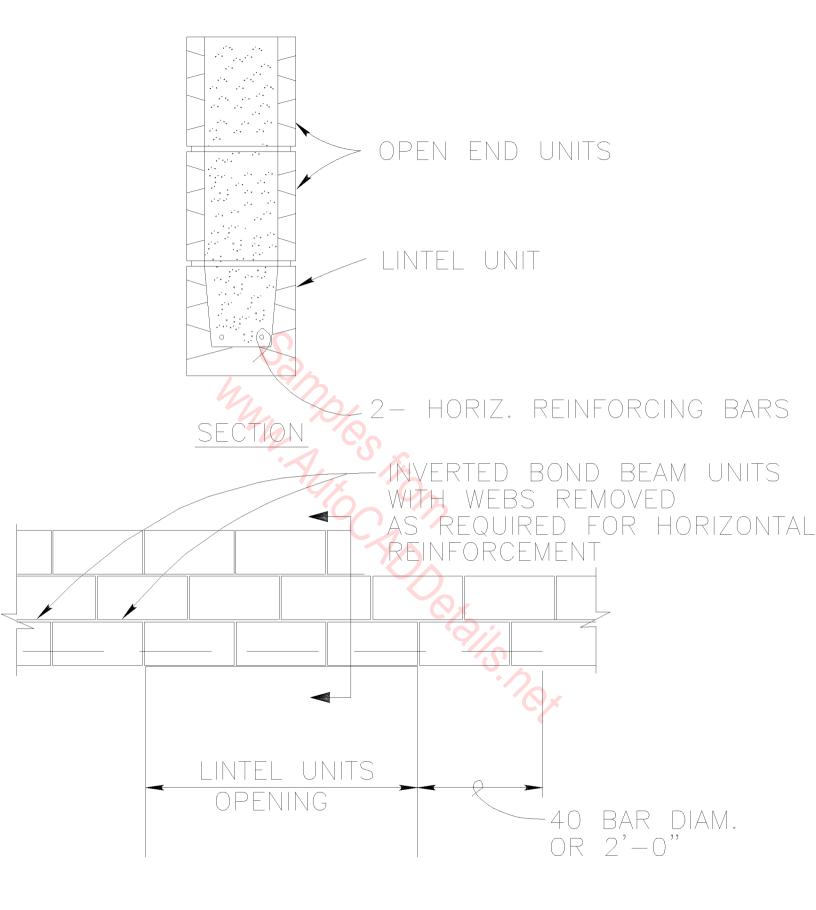




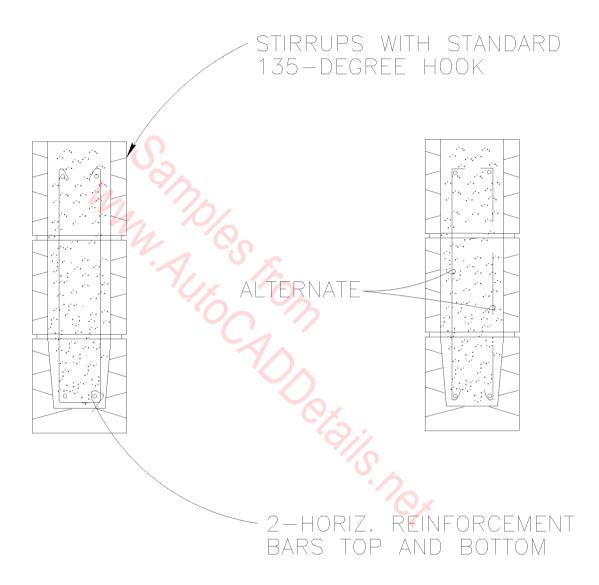




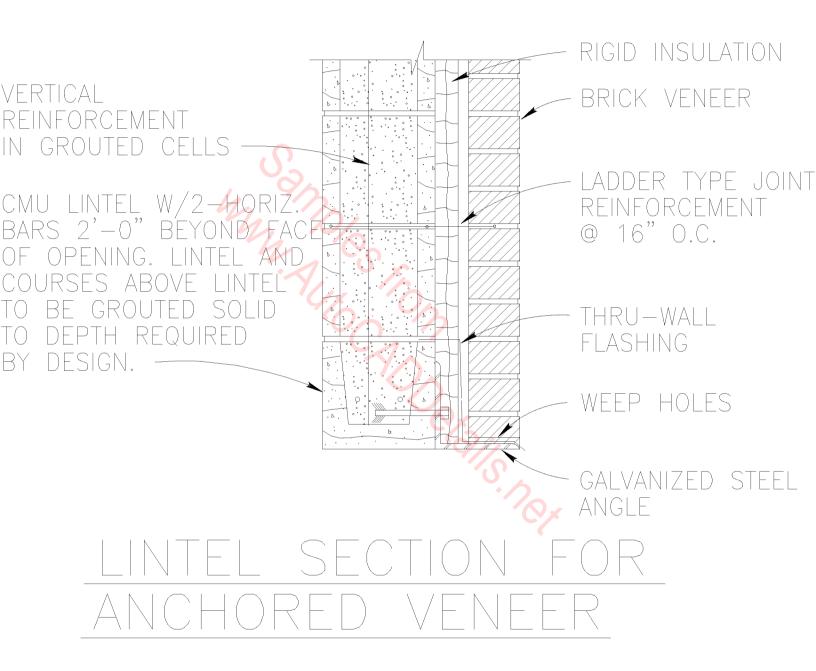
<u>Fully grouted cmu</u> 48-inch reinforcement spacing

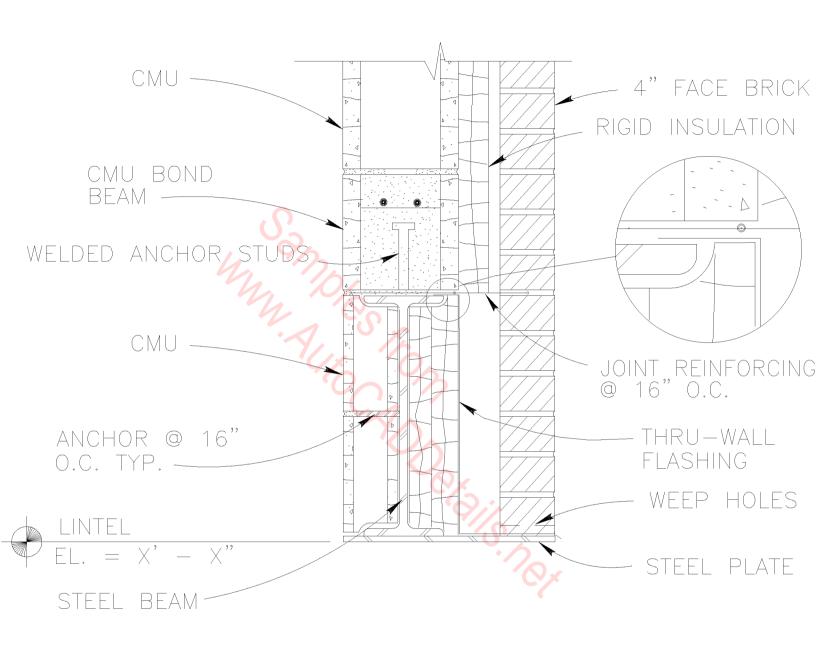


ELEVATION



LINTEL SECTIONS WITH STIRRUPS





W-SHAPE LINTEL SECTION FOR ANCHORED VENEER