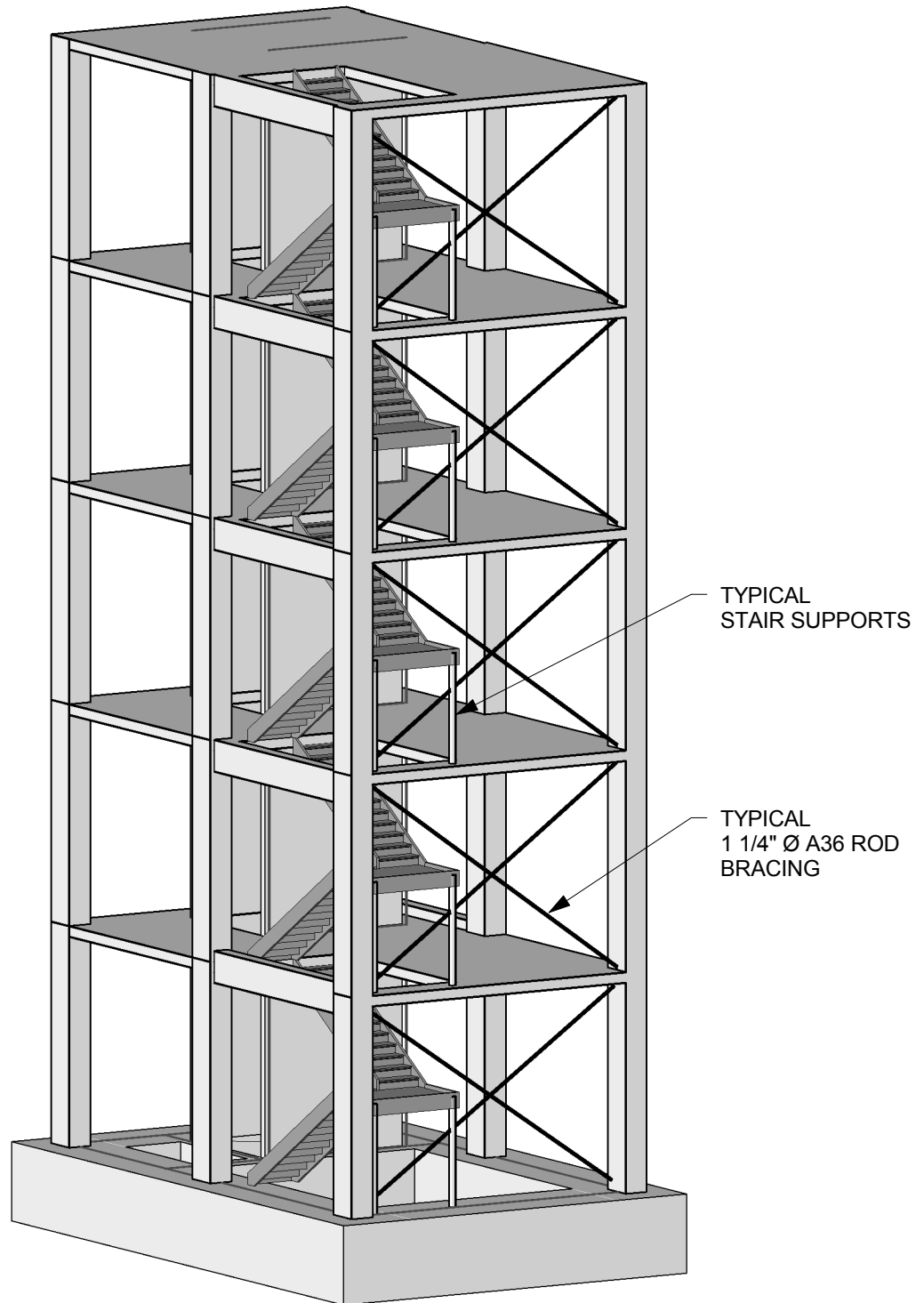




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ONLY
NOT FOR CONSTRUCTION

Structural Building Model

TEST SPECIMEN A

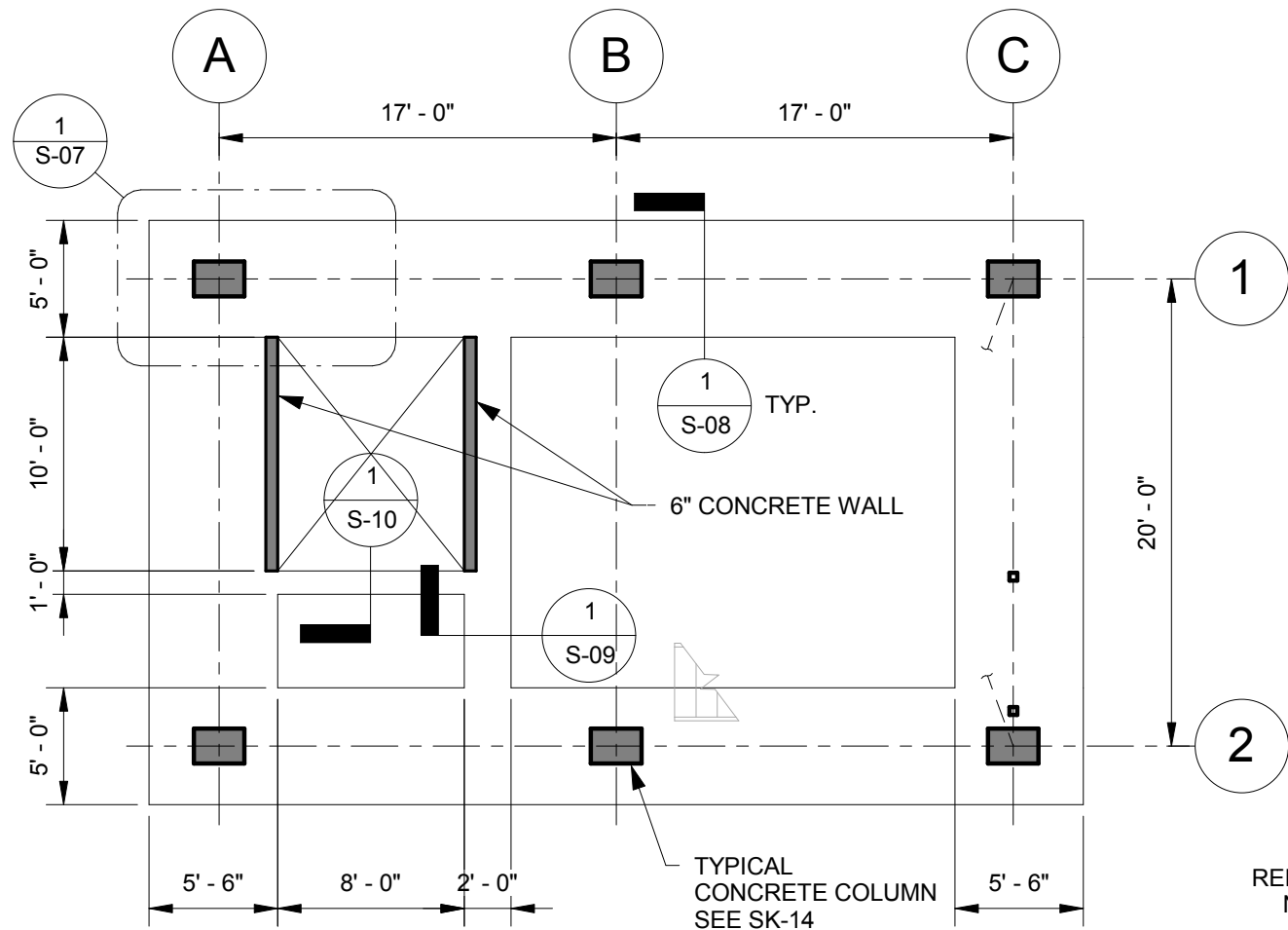
Project Number
604-92

Construction Documents

Figure

S-00

Date
02.18.2011



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Level 1 and Foundation Plan

Figure

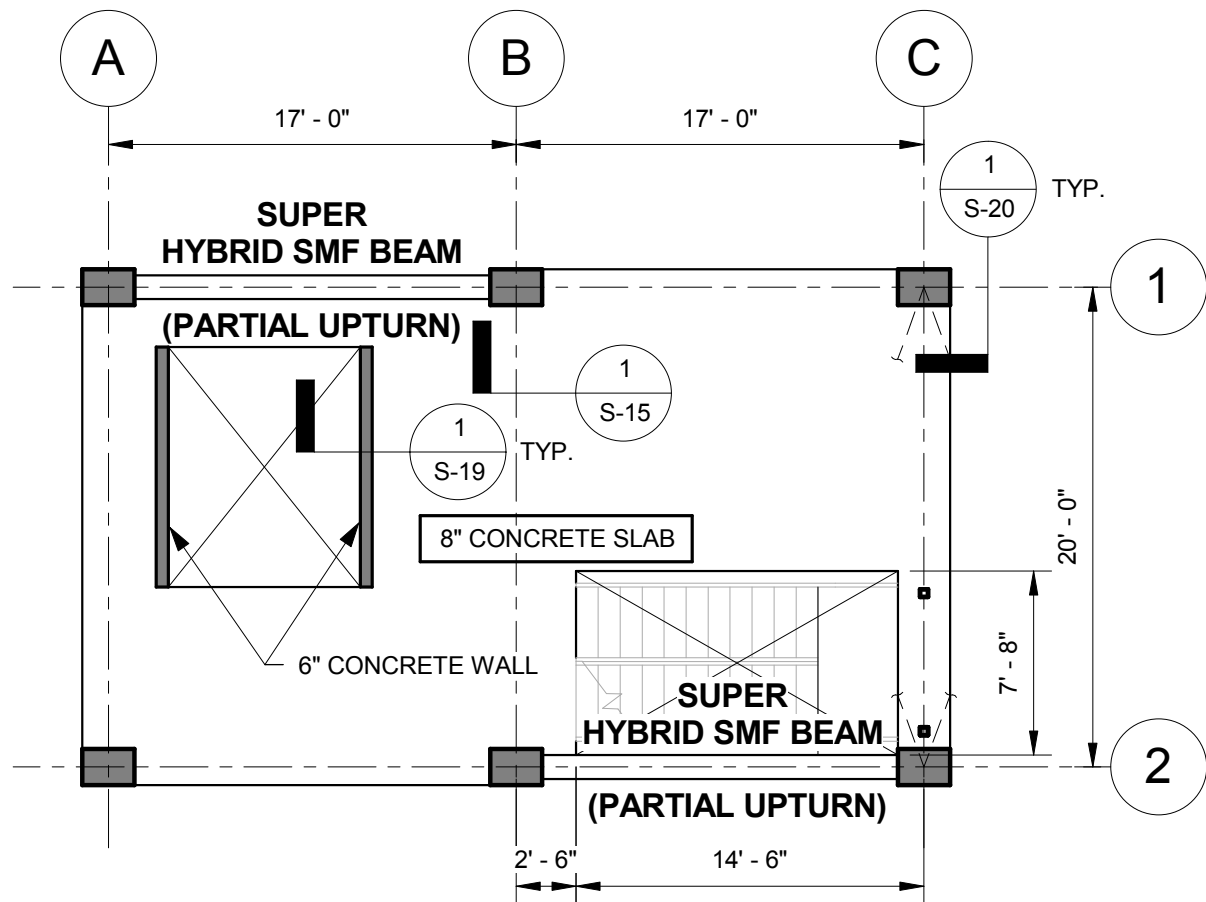
TEST SPECIMEN A

S-01

Project Number
604-92

Date
02.18.2011

Construction Documents



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Level 2 Framing Plan

TEST SPECIMEN A

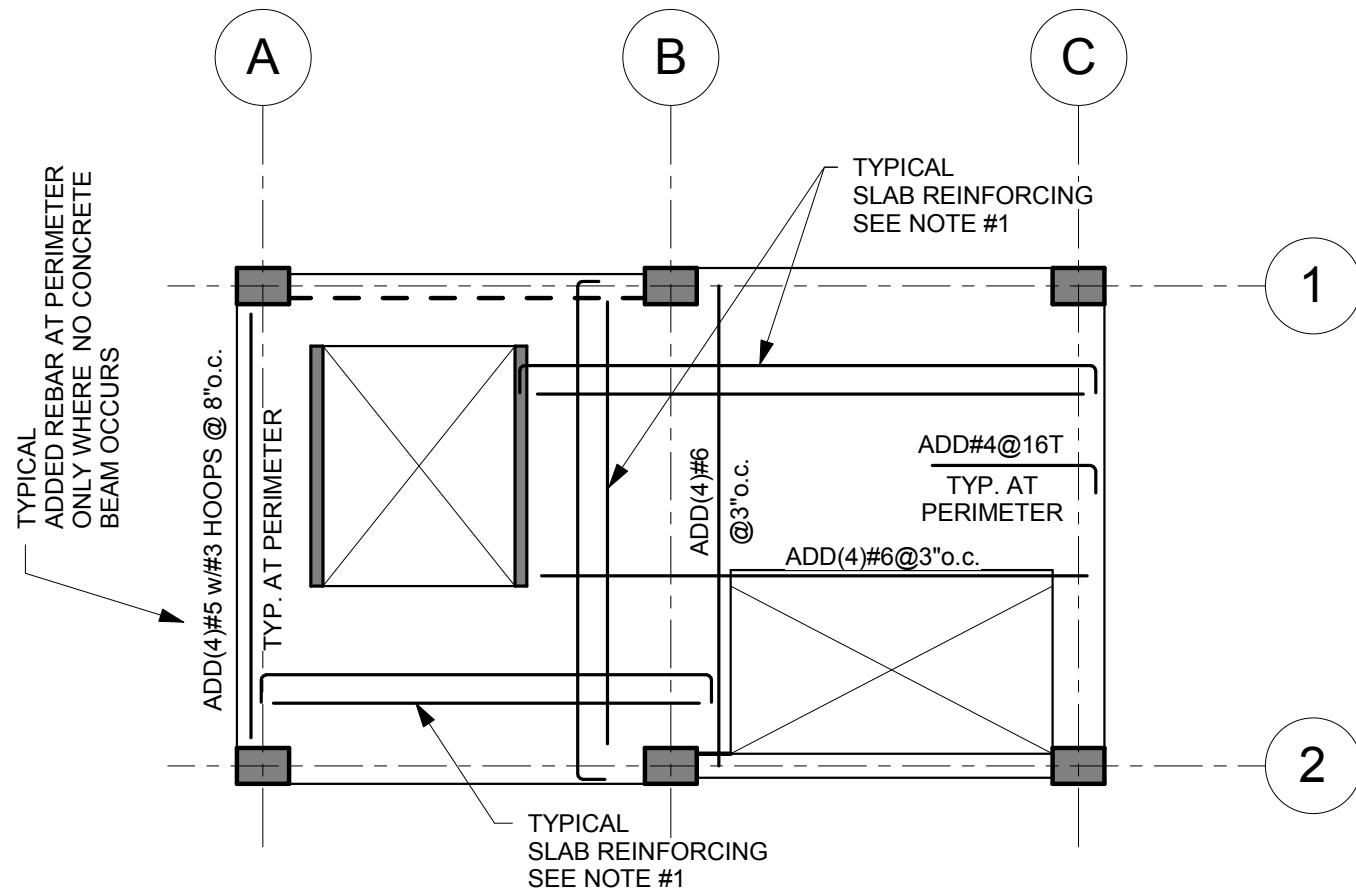
Project Number
604-92

Construction Documents

Figure

S-02

Date
02.18.2011



NOTES:

1. TYPICAL SLAB REINFORCING SHALL BE #5@8 BOTTOM EA. WAY AND #4@16 TOP EA. WAY.
2. ALL REINFORCING NOTED ON PLAN IS ADDED REINFORCING.
3. ALL REINFORCING SHALL BE PLACED AS FOLLOWS:
 - A. NORTH-SOUTH DIRECTION OUTSIDE LAYER.
 - B. EAST-WEST DIRECTION INSIDE LAYER.

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ONLY
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Typical Slab Reinforcing
Plan

TEST SPECIMEN A

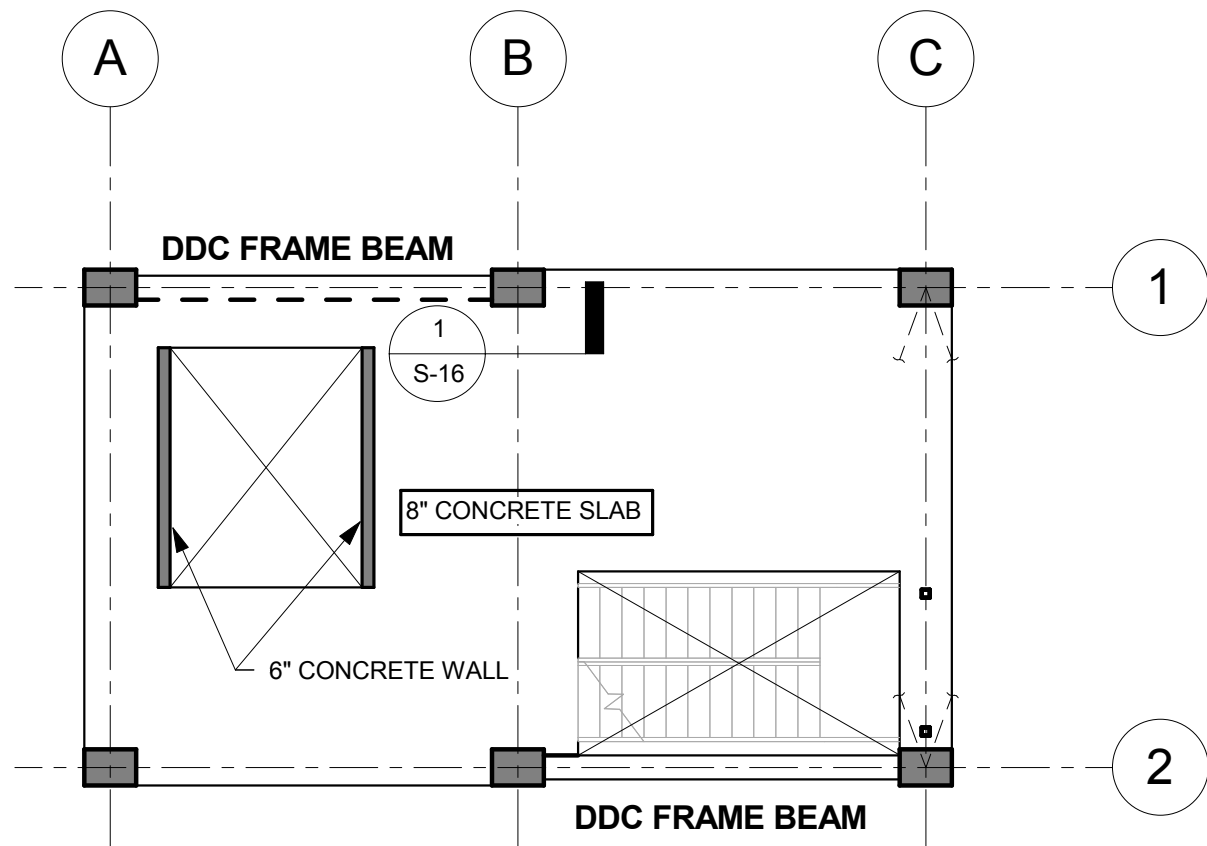
Project Number
604-92

Construction Documents

Figure

S-02A

Date
02.18.2011



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Level 3 Framing Plan

TEST SPECIMEN A

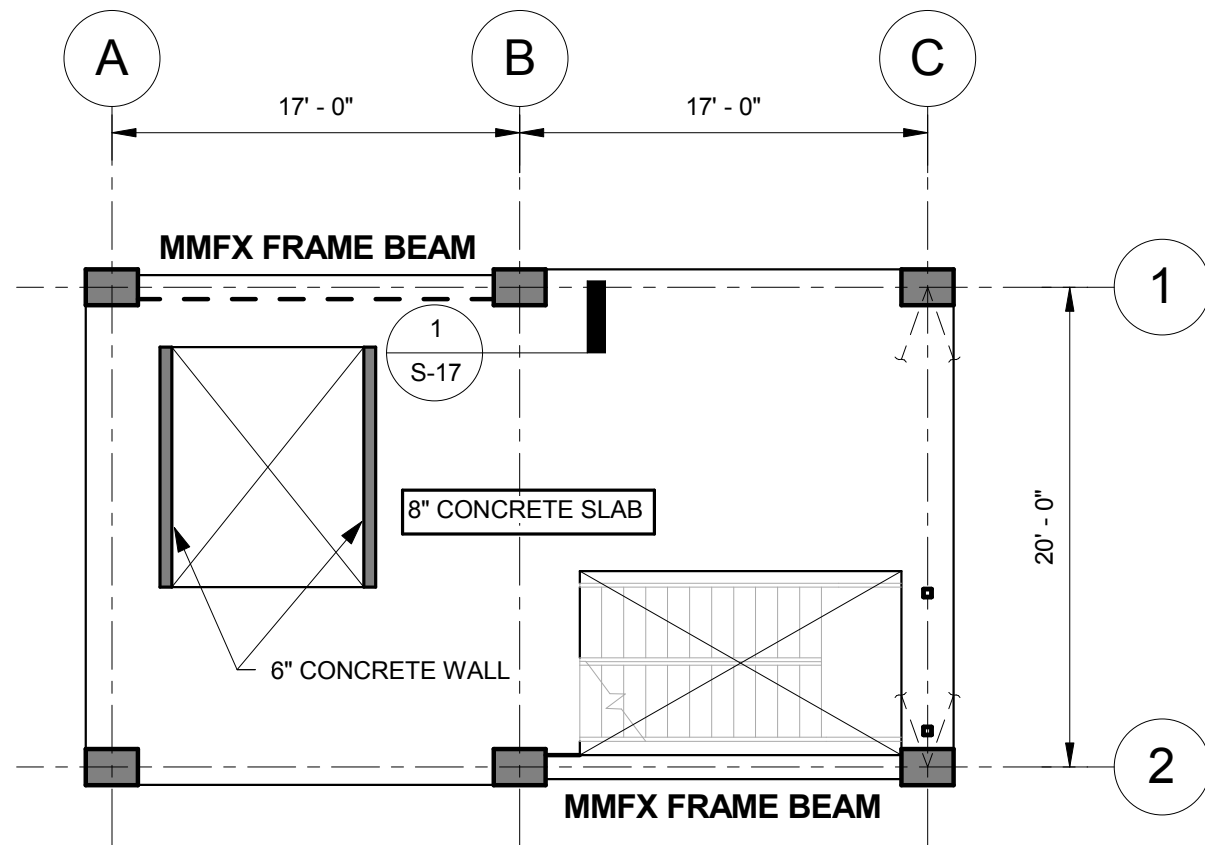
Project Number
604-92

Construction Documents

Figure

S-03

Date
02.18.2011



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NOT FOR CONSTRUCTION

Level 4 Framing Plan

Figure

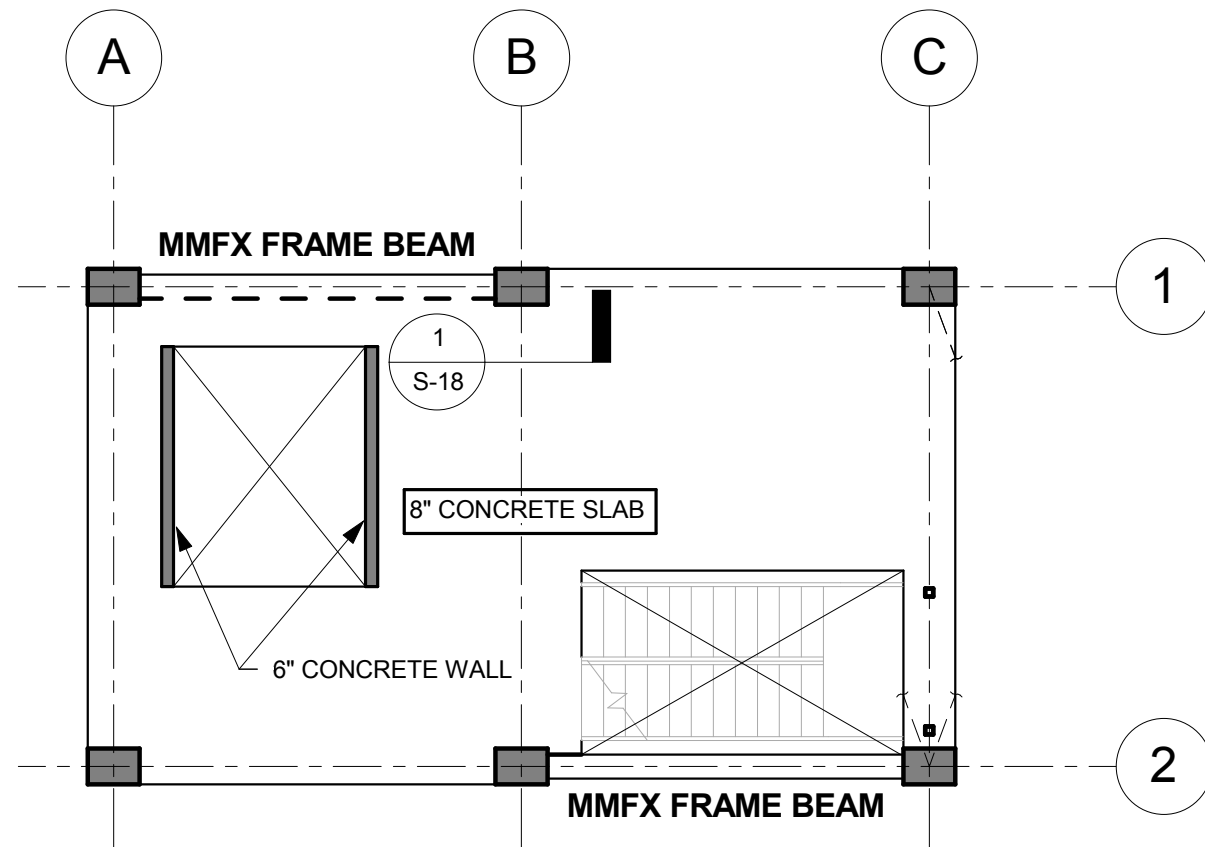
TEST SPECIMEN A

S-04

Project Number
604-92

Date
02.18.2011

Construction Documents



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NOT FOR CONSTRUCTION

Level 5 Framing Plan

TEST SPECIMEN A

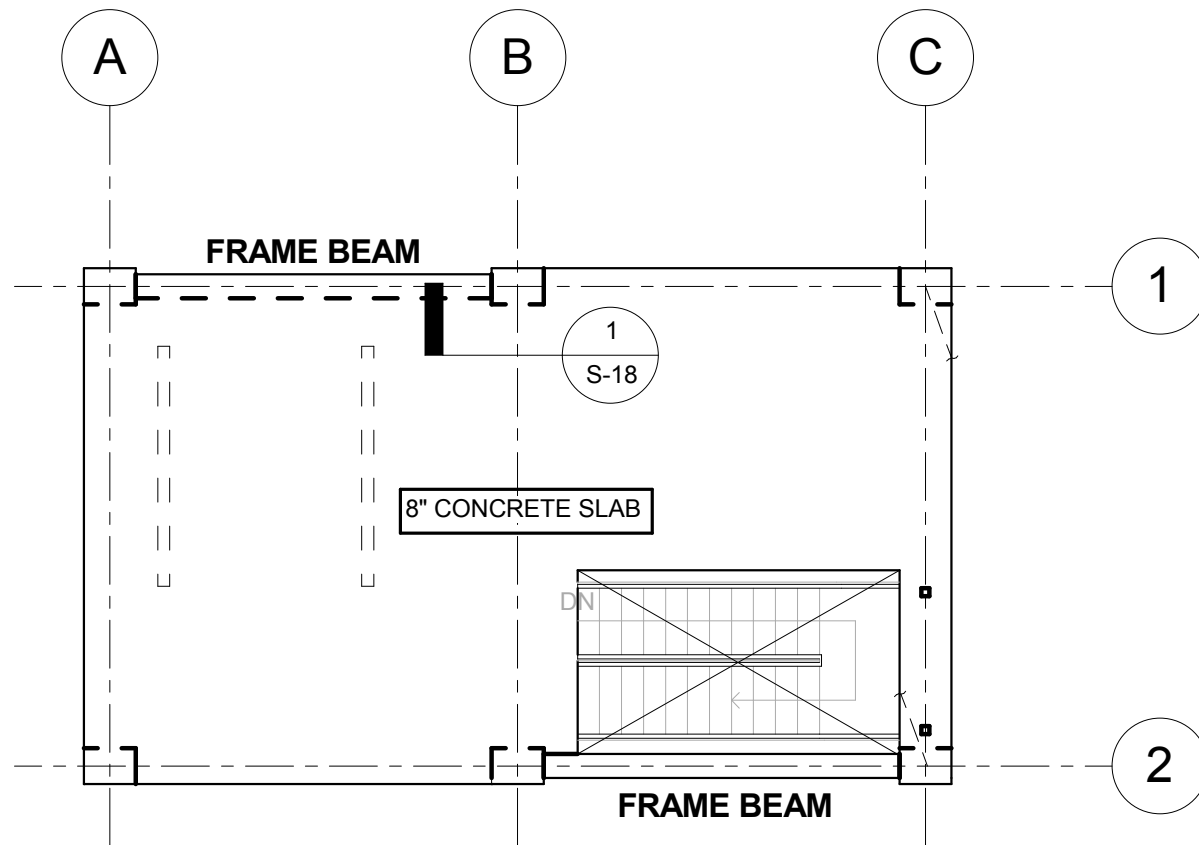
Project Number
604-92

Construction Documents

Figure

S-05

Date
02.18.2011



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NOT FOR CONSTRUCTION

Roof Framing Plan

Figure

TEST SPECIMEN A

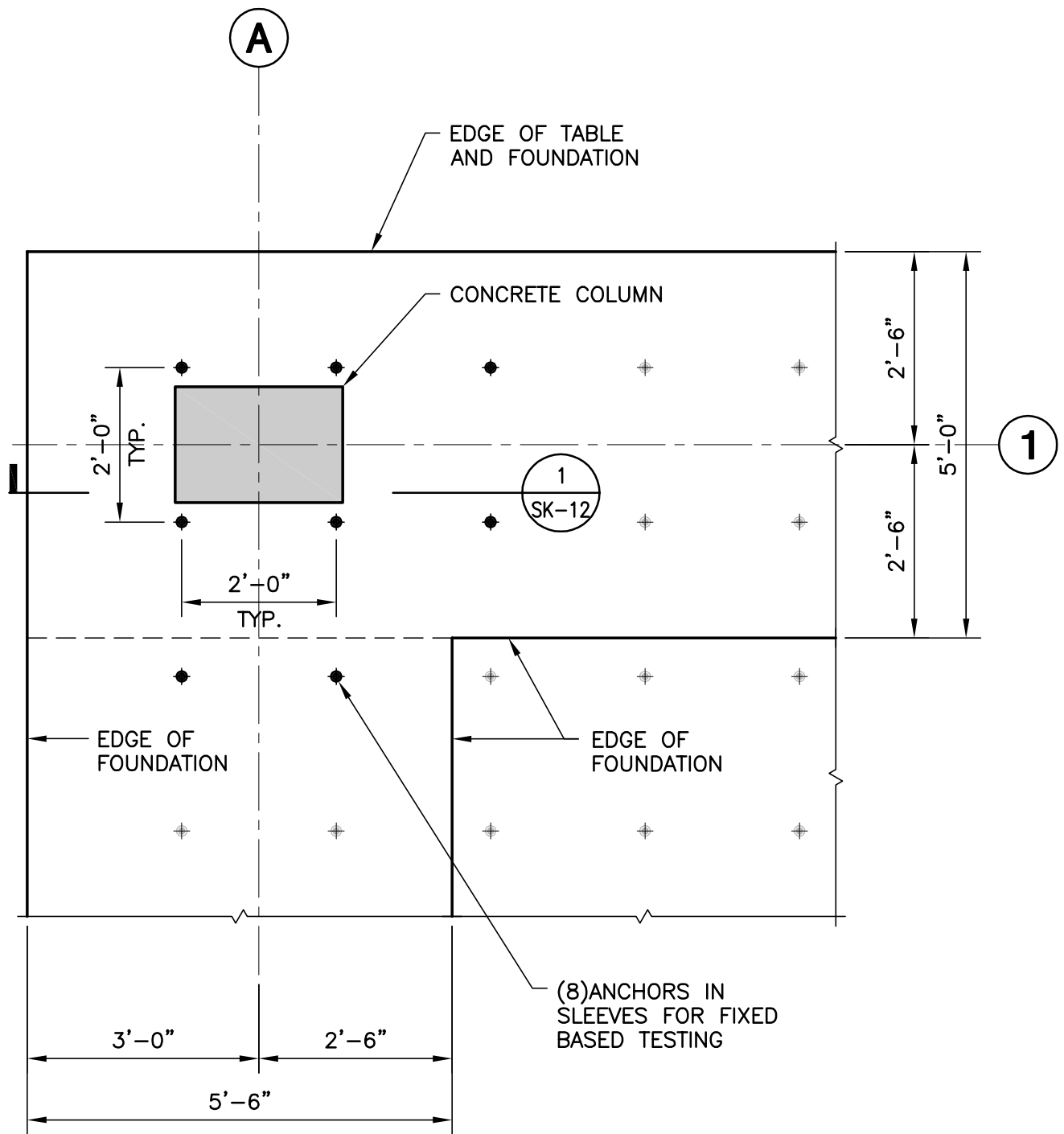
S-06

Project Number
604-92

Date
02.18.2011

Construction Documents

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1/2"=1'-0"

FOUNDATION DETAIL

1

ISSUED FOR PRICING
ONLY
NOT FOR CONSTRUCTION

Foundation Detail

FIGURE

TEST SPECIMEN A

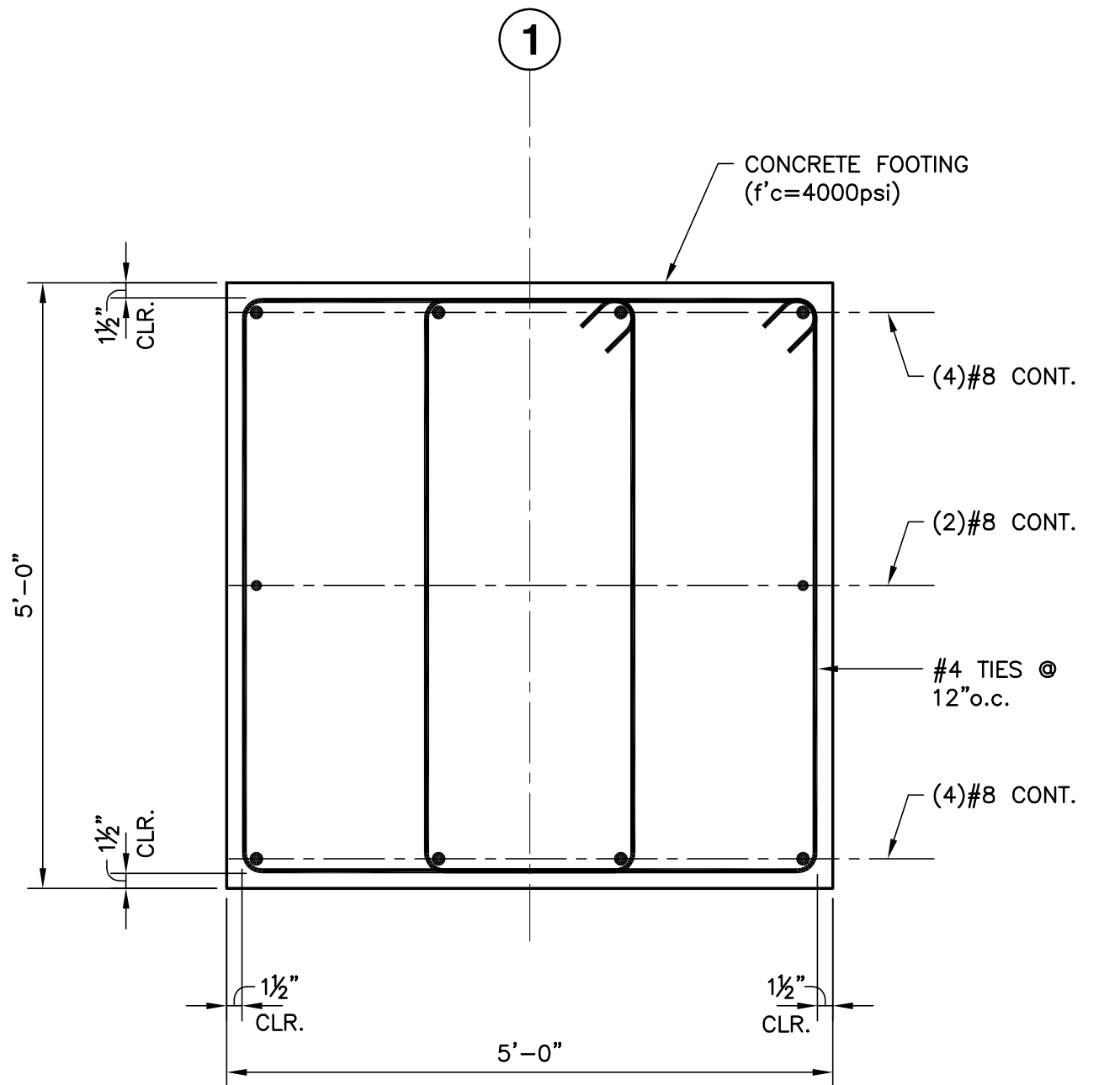
JOB NUMBER
604-92

DATE
02.18.2011

Construction Documents

S-07

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FOOTING DETAL

1

FIGURE

S-08

ISSUED FOR PRICING
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Footing Detail

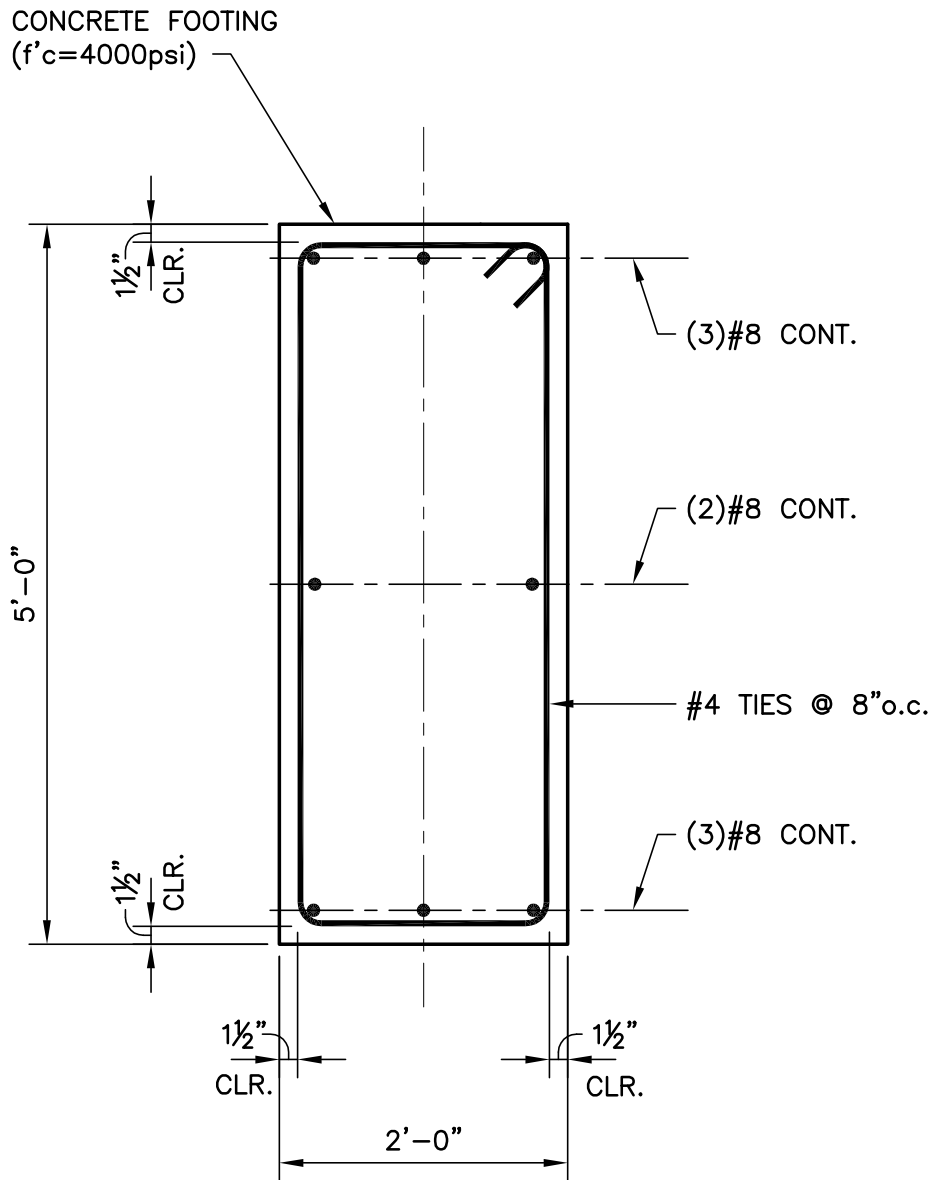
TEST SPECIMEN A

JOB NUMBER
604-92

DATE
02.18.2011

Construction Documents

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FOOTING DETAL

1

ISSUED FOR PRICING
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Footing Detail

FIGURE

S-09

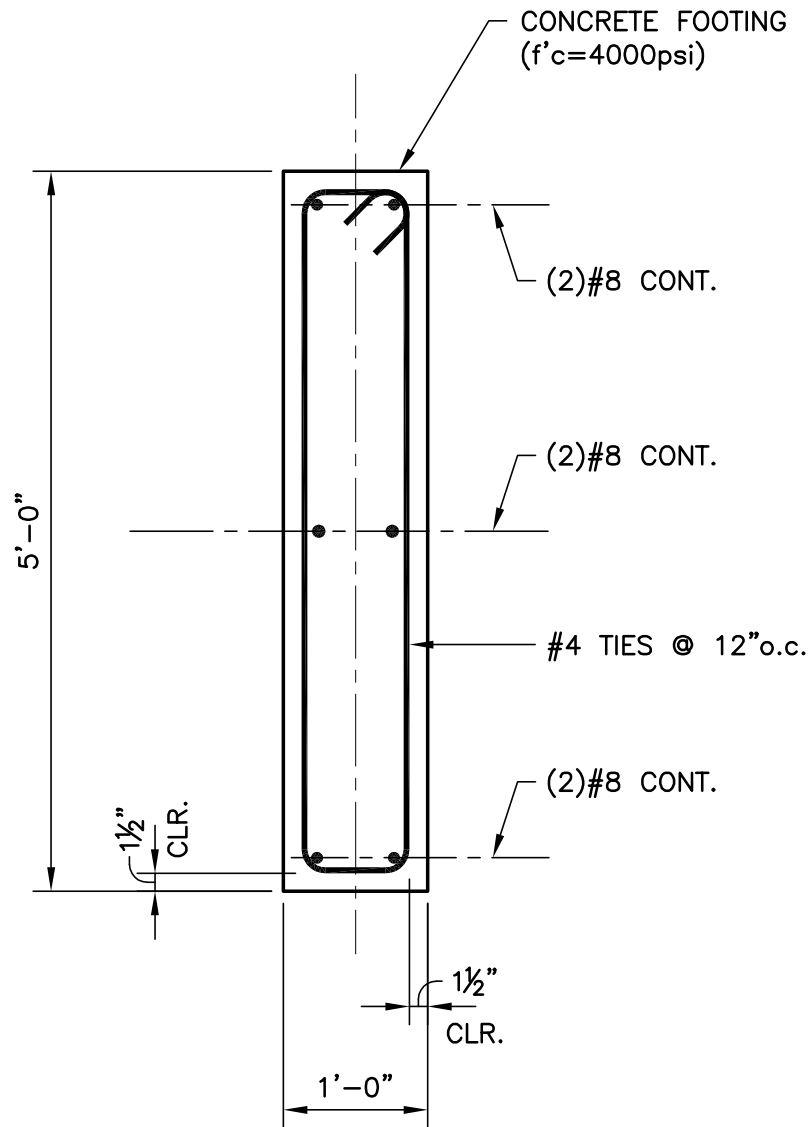
TEST SPECIMEN A

JOB NUMBER
604-92

DATE
02.18.2011

Construction Documents

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$\frac{3}{4}" = 1'-0"$

FOOTING DETAL

1

Footing Detail

FIGURE

S-10

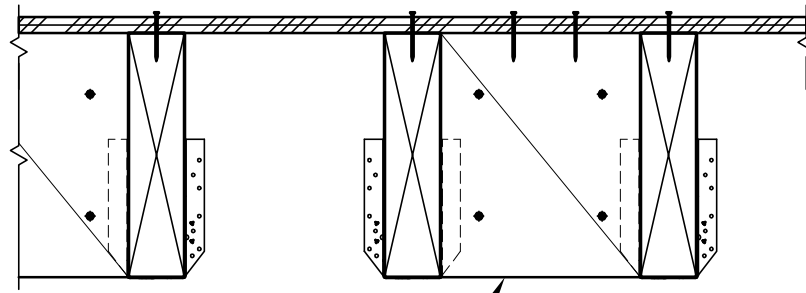
ISSUED FOR PRICING
ONLY
NOT FOR CONSTRUCTION

TEST SPECIMEN A

JOB NUMBER
604-92

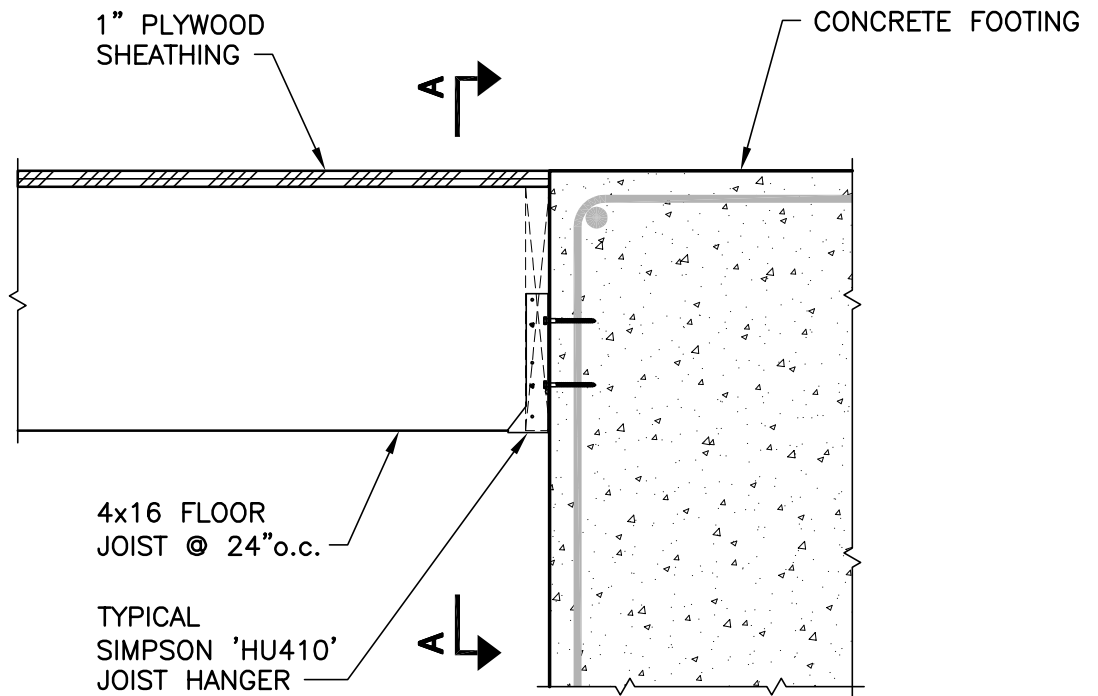
DATE
02.18.2011

Construction Documents



TYPICAL
2x BLOCKING @ 48" o.c.
w/(4) SIMPSON 1/4" ϕ x 3"
TITEN SCREWS
AT EACH BLOCK

SECTION A-A



1"=1'-0"

WOOD FLOOR DETAIL

1

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ONLY
NOT FOR CONSTRUCTION

Typical Level 1
Wood Floor Framing Detail

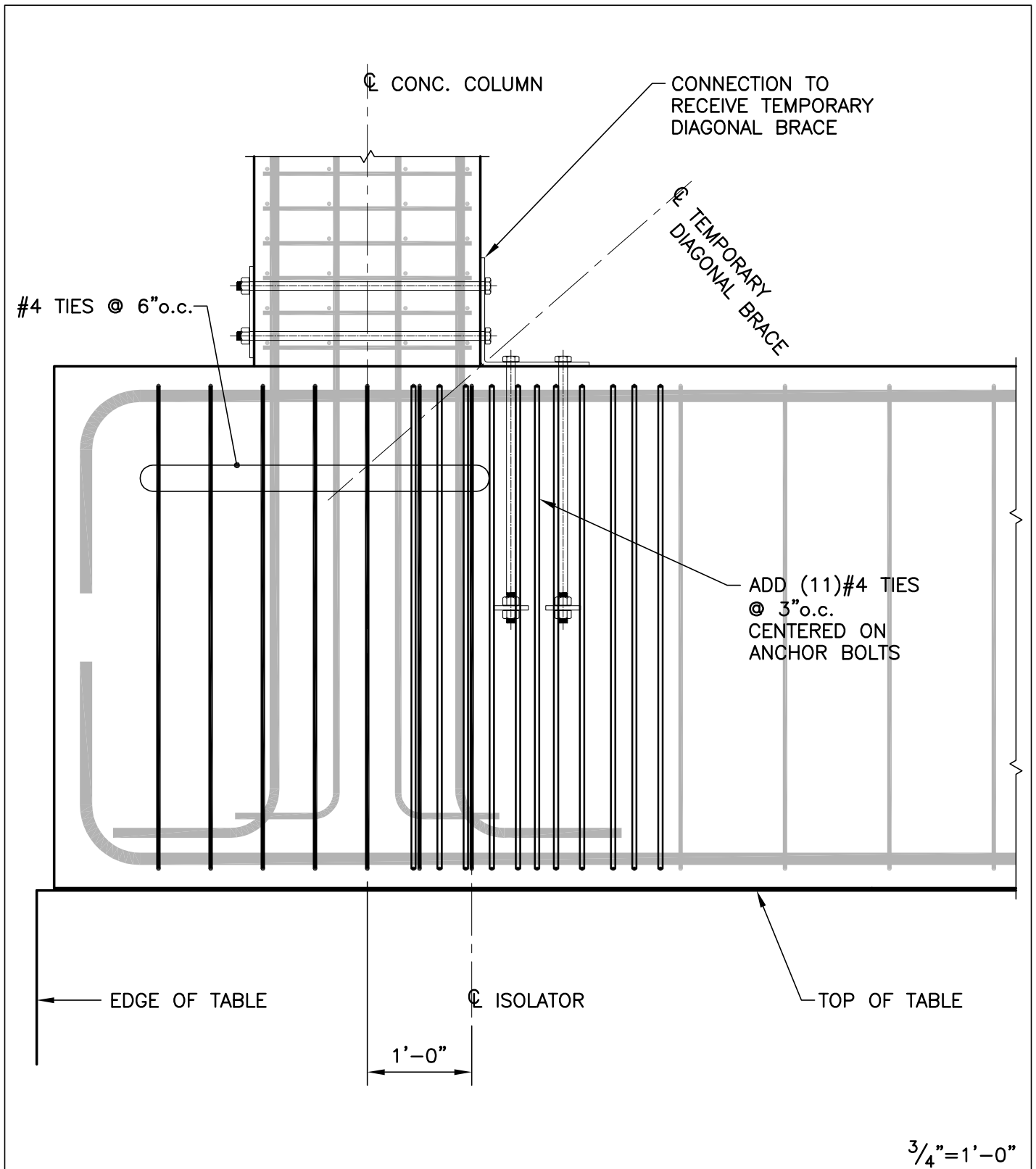
TEST SPECIMEN A

JOB NUMBER
604-92

FIGURE
S-11

DATE
02.18.2011

Construction Documents



ISOLATOR DETAIL

1

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ONLY
NOT FOR CONSTRUCTION

Typical Concrete Column
at Foundation Detail

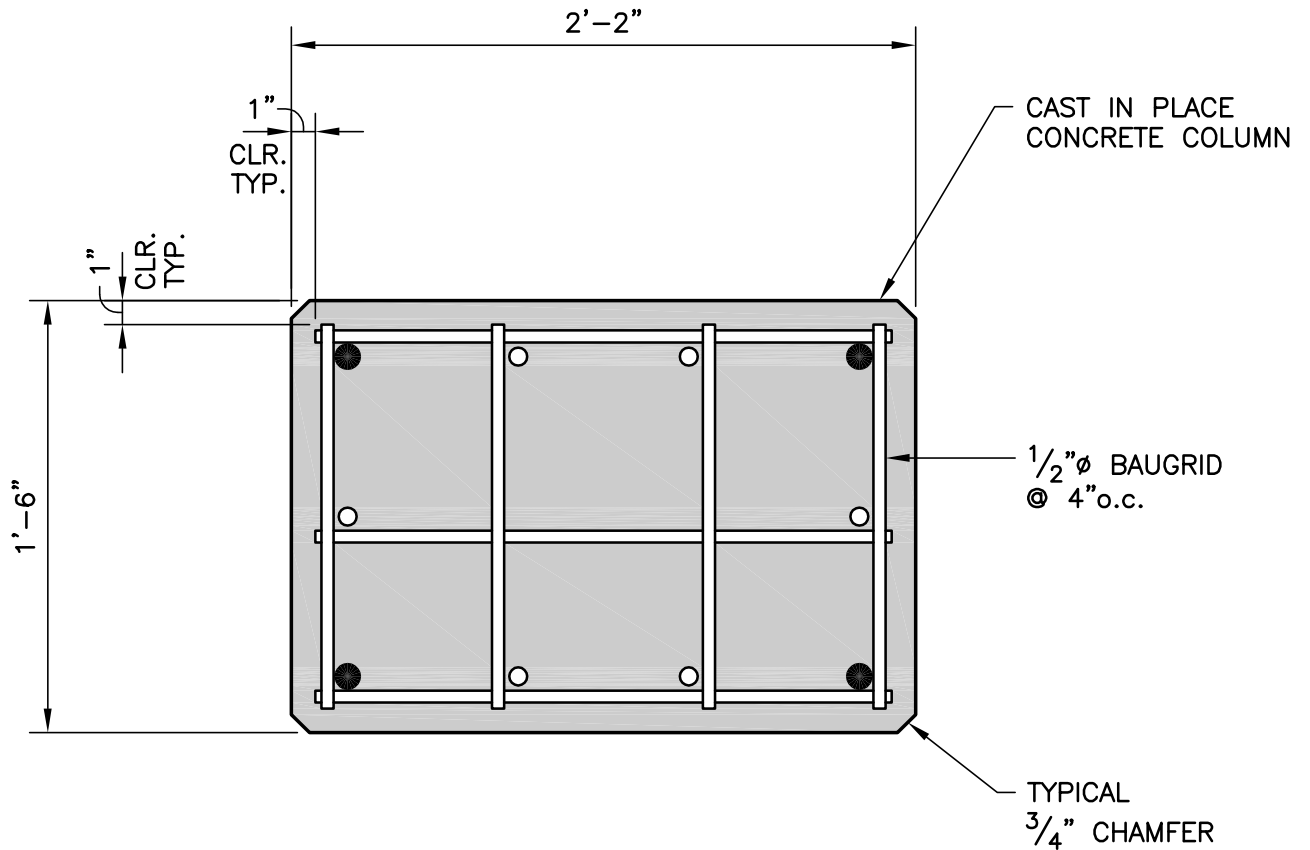
TEST SPECIMEN A

JOB NUMBER
604-92

FIGURE
S-12

DATE
02.18.2011

Construction Documents



CONCRETE COLUMN 18"x26" ($f_c=5000\text{psi}$)

- INDICATES (4)#9 VERTICAL BARS
- INDICATES (6)#6 VERTICAL BARS

1 1/2" = 1'-0"

TYPICAL COLUMN DETAIL

1

ISSUED FOR PRICING
ONLY
NOT FOR CONSTRUCTION

Typical Concrete Column
Reinforcing Detail

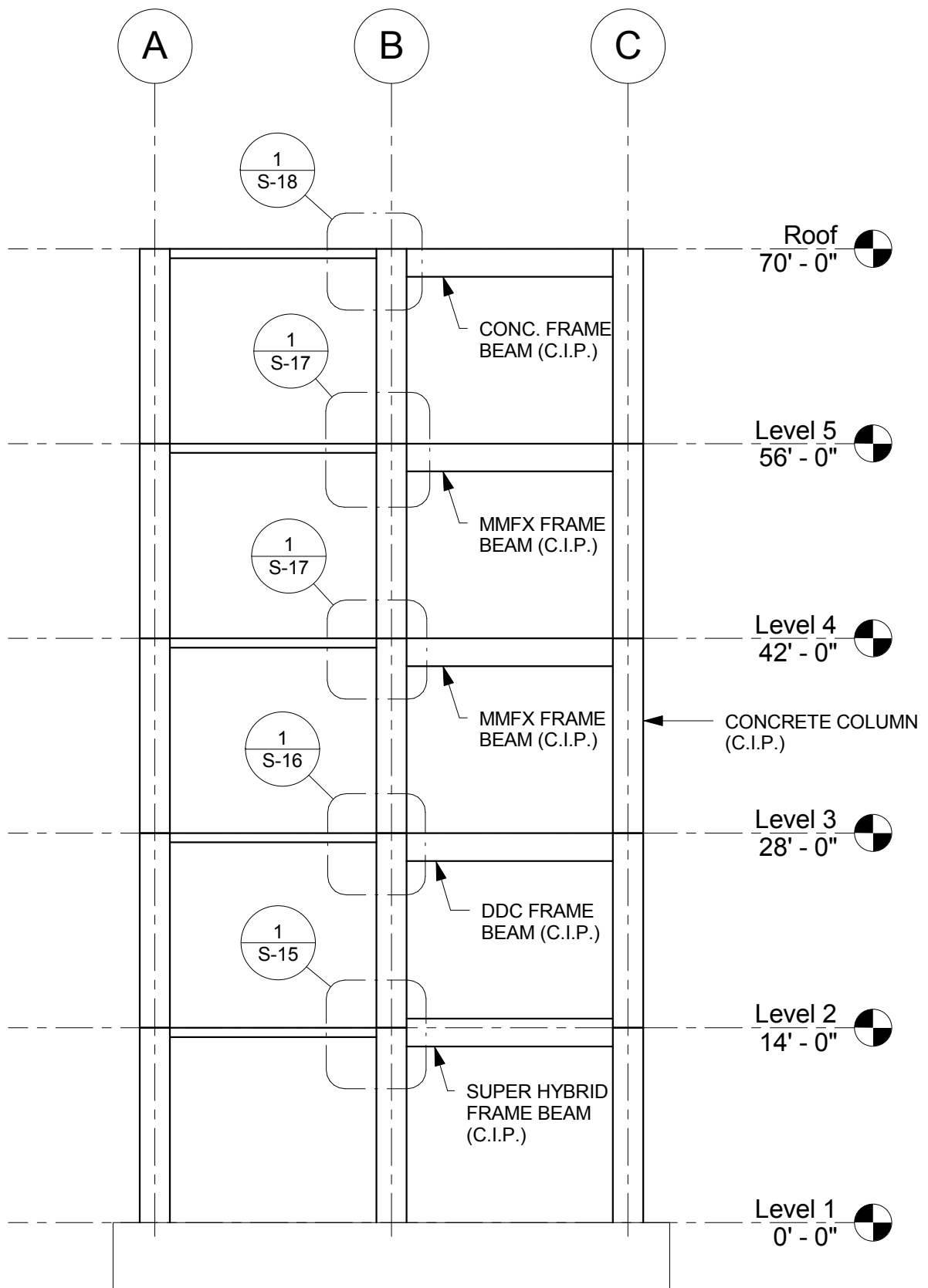
TEST SPECIMEN A

JOB NUMBER
604-92

FIGURE
S-13

DATE
02.18.2011

Construction Documents



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NOT FOR CONSTRUCTION

Typical Concrete Frame
Elevation

TEST SPECIMEN A

Project Number
604-92

Construction Documents

Figure

S-14

Date
02.18.2011

CAST-IN-PLACE
CONCRETE COLUMN

UPTURNED CONC.
HYBRID SMF BEAM

(4) $\frac{1}{2}$ " ϕ PT

CL BEAM

SECTION A-A

PROVIDE (2) CROSS TIES
TOP AT FIRST (6) TIES
FROM COLUMN FACE

C.I.P. CONC.
COL. PER PLAN

CONC. SLAB
PER PLAN

TYPICAL
DUCTILE ROD
SEE S-15A

SECTION B-B

ALTERNATE
90° HOOK AT
DOUBLE
CROSS TIES

UPTURNED CONC. HYBRID
SMF BEAM ($f'_c=5000\text{psi}$)
w/(2)#7T&B

(15)#4 TIES @ 4" o.c. AT
COL. FACE REMAINING
TIES @ 6" o.c.

$\frac{3}{4}$ " = 1'-0"

SUPER HYBRID MOMENT FRAME DETAIL

1

ISSUED FOR PRICING
ONLY

NOT FOR CONSTRUCTION

Super Hybrid Moment Frame
Detail

TEST SPECIMEN A

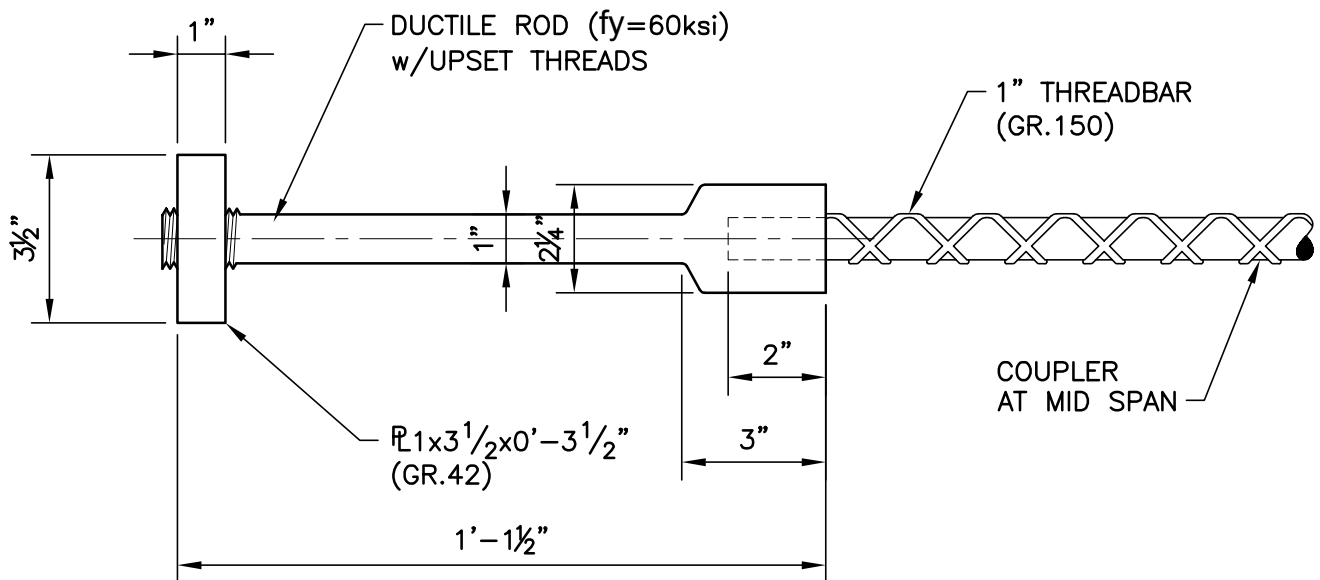
JOB NUMBER
604-92

FIGURE

S-15

DATE
02.18.2011

Construction Documents



NOTE:

DUCTILE ROD ASSEMBLY SHALL BE TESTED TO T_{max}.

3"=1'-0"

HYBRID SMF DUCTILE ROD DETAIL

1

ISSUED FOR PRICING
ONLY
NOT FOR CONSTRUCTION

Super Hybrid Moment Frame
Ductile Rod Detail

TEST SPECIMEN A

JOB NUMBER
604-92

FIGURE
S-15A

DATE
02.18.2011

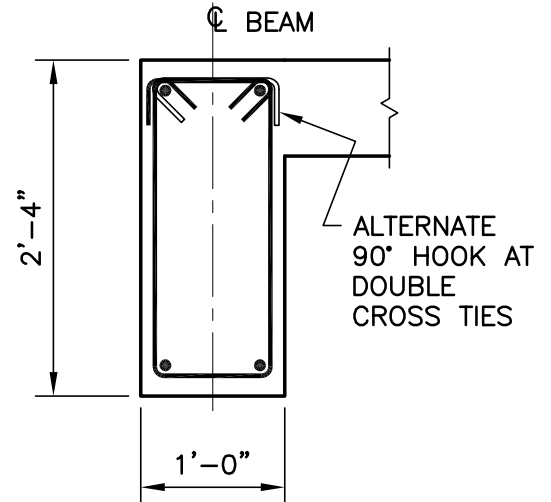
Construction Documents

CAST-IN-PLACE
CONCRETE COLUMN

DDC FRAME BEAM

SECTION A-A

PROVIDE (2) CROSS TIES
TOP AT FIRST (6) TIES
FROM COLUMN FACE



SECTION B-B

CONC. SLAB
PER PLAN

C.I.P. CONC.
COL. PER PLAN

DUCTILE ROD
CONNECTOR
SEE S-16A

DDC FRAME BEAM
($f'_c=5000\text{psi}$)
w/(2)#8T&B
(15)#4 TIES @ 4"o.c. AT
COL. FACE REMAINING
TIES @ 6"o.c.

$\frac{3}{4}"=1'-0"$

DDC MOMENT FRAME DETAIL

1

ISSUED FOR PRICING
ONLY

NOT FOR CONSTRUCTION

DDC Moment Frame Detail

FIGURE

S-16

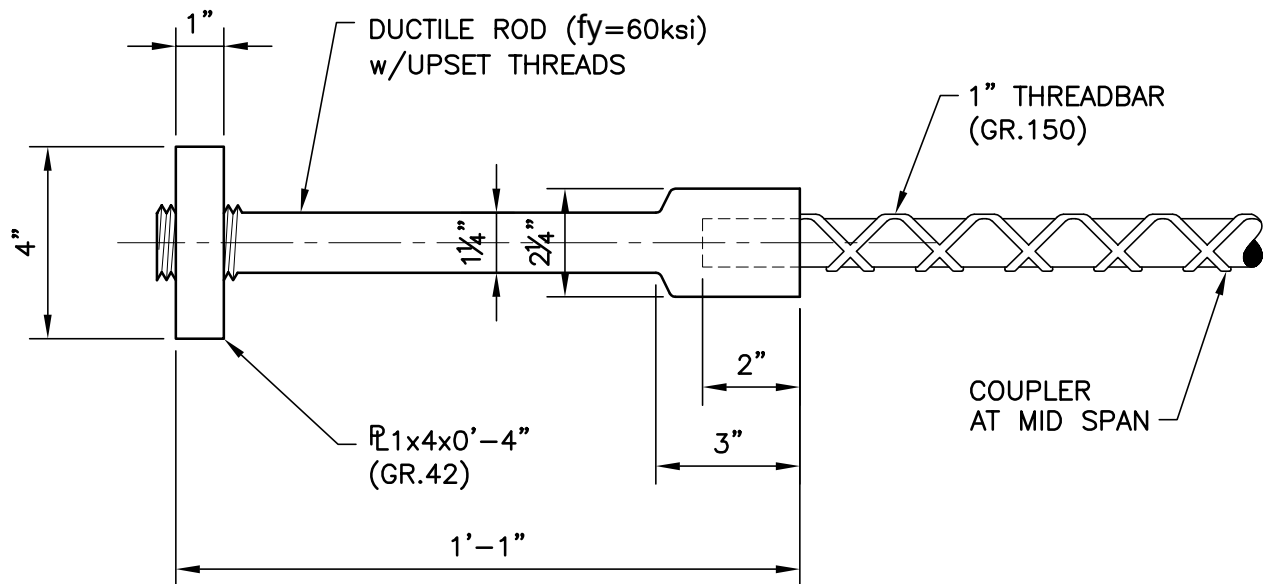
TEST SPECIMEN A

JOB NUMBER
604-92

DATE
02.18.2011

Construction Documents

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NOTE:

DUCTILE ROD ASSEMBLY SHALL BE TESTED TO T_{max}.

3"=1'-0"

DDC FRAME DUCTILE ROD DETAIL

1

ISSUED FOR PRICING
ONLY
NOT FOR CONSTRUCTION

DDC Frame Ductile Rod
Detail

TEST SPECIMEN A

JOB NUMBER
604-92

FIGURE

S-16A

DATE
02.18.2011

Construction Documents

CAST-IN-PLACE
CONCRETE COLUMN

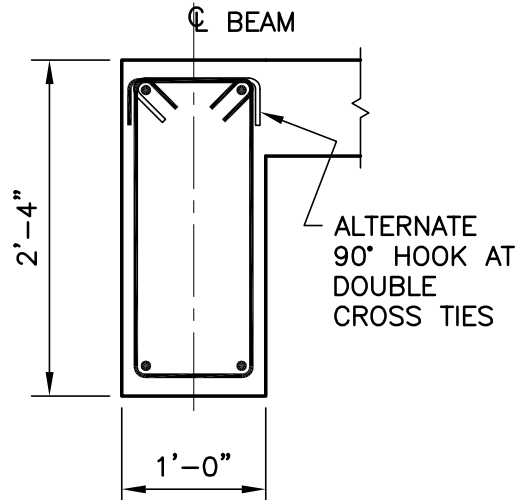
MMFX CONC. FRAME
BEAM

SECTION A-A

PROVIDE (2) CROSS TIES
TOP AT FIRST (5) TIES
FROM COLUMN FACE

CONC. SLAB
PER PLAN

C.I.P. CONC.
COL. PER PLAN



SECTION B-B

A

A
B
2"
CLR.

MMFX CONC. FRAME BEAM
w/(2)#7T&B ($f_y = 120\text{ksi}$)
(15)#4 TIES @ 4"o.c. AT
COL. FACE REMAINING
TIES @ 6"o.c.

$\frac{3}{4}" = 1'-0"$

CONVENTIONAL REINFORCED MMFX MOMENT FRAME DETAIL

1

FIGURE

S-17

ISSUED FOR PRICING
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NOT FOR CONSTRUCTION

Conventional Reinforced MMFX
Moment Frame Detail

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
02.18.2011

Construction Documents

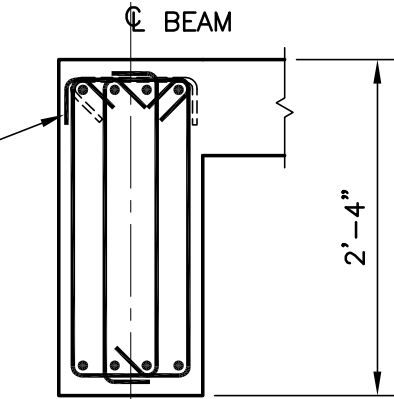
CAST-IN-PLACE
CONCRETE COLUMN

CONC. FRAME BEAM

NOTE:
PROVIDE FORM SAVER
ANCHORS FOR SLAB BARS

SECTION A-A

ALTERNATE
90° HOOK

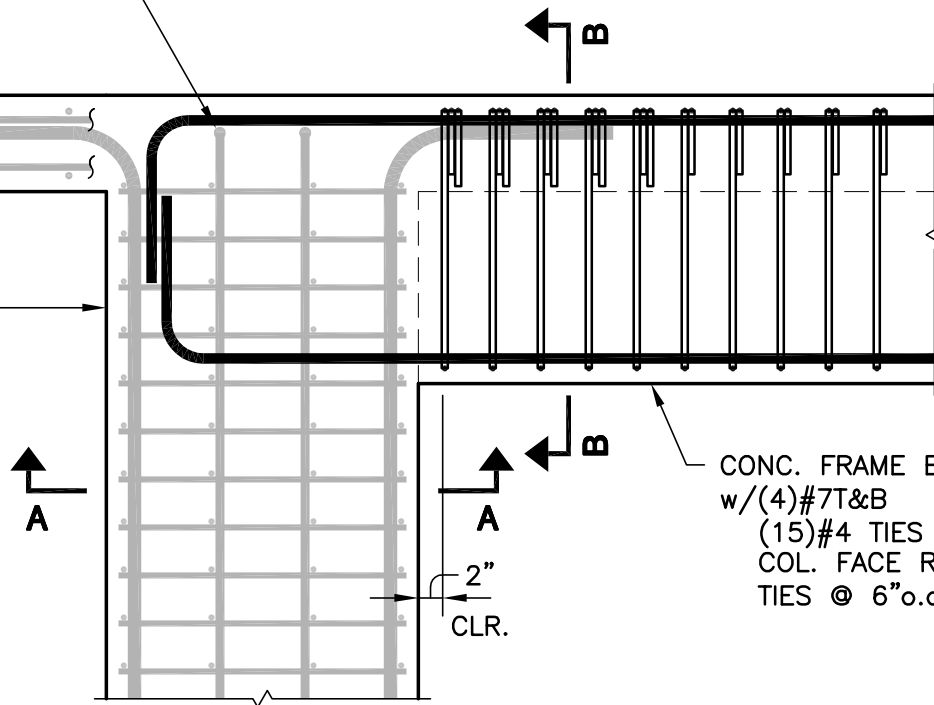


SECTION B-B

PROVIDE 90° HOOK

CONC. SLAB
PER PLAN

C.I.P. CONC.
COL. PER PLAN



CONVENTIONAL REINFORCED MOMENT FRAME DETAIL

1

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ONLY

NOT FOR CONSTRUCTION

Conventional Reinforced Moment
Frame Detail

TEST SPECIMEN A

JOB NUMBER
604-92

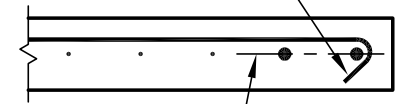
FIGURE

S-18

DATE
02.18.2011

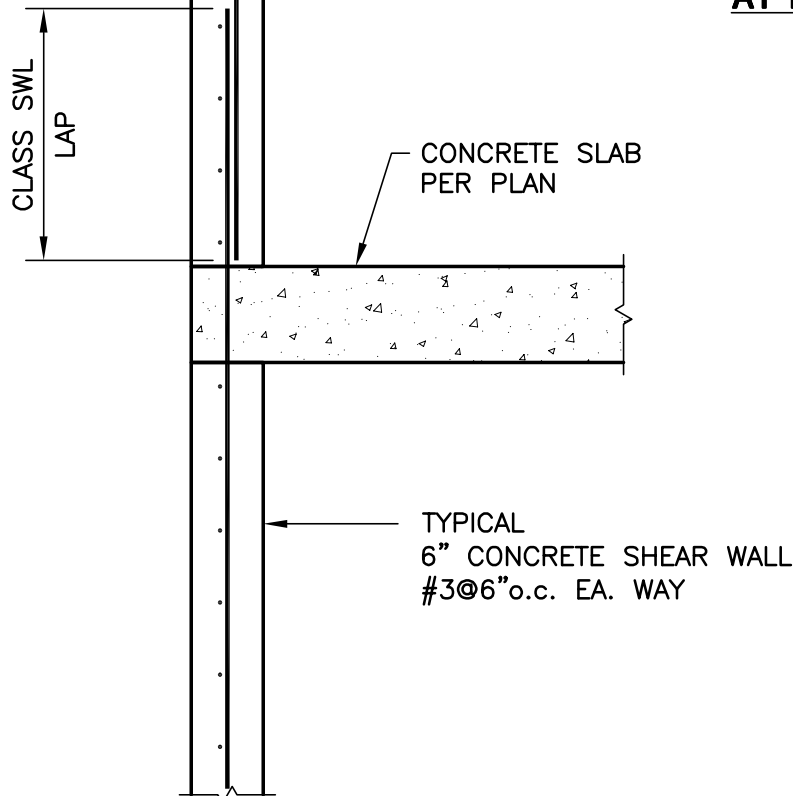
Construction Documents

TYPICAL
90° STANDARD
HOOK AT ENDS



(2)#9 EA.
END OF WALL

SHEAR WALL REINFORCING AT BOUNDARY



$\frac{3}{4}" = 1' - 0"$

TYPICAL SHEAR WALL DETAIL

1

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ONLY

NOT FOR CONSTRUCTION

Typical Shear Wall Detail

FIGURE

S-19

TEST SPECIMEN A

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Construction Documents

(1)#5 HAIRPIN TIE
ABOVE AND BELOW

9"
MIN.

3 1/2"

PLAN VIEW

1 1/4" ϕ ROD BRACE

CL. COLUMN BEYOND

CONCRETE SLAB
PER PLAN

#3 TIES
@ 8" o.c.

(2)#5 CONT. T&B
(OR WITH
STAGGERED SPLICE)

1"
CLR.
TYP.

SECTION A-A

1 1/4" ϕ ROD BRACE

2"
CLR.

3/4" = 1'-0"

TYPICAL ROD BRACING DETAIL

1

Typical Rod Bracing Detail

FIGURE

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ONLY

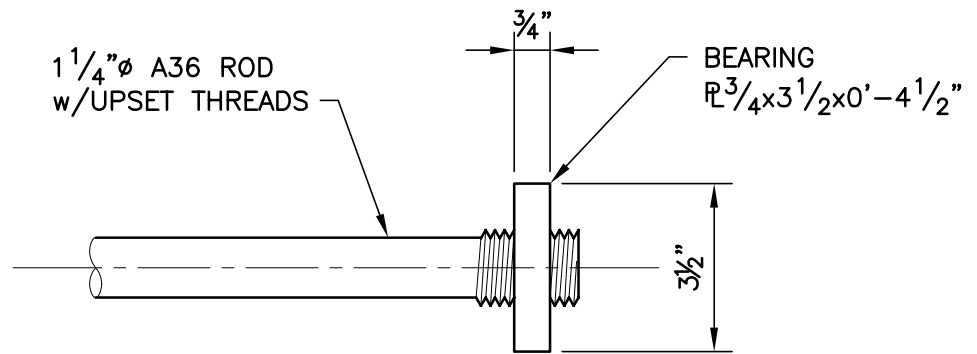
NOT FOR CONSTRUCTION

TEST SPECIMEN A

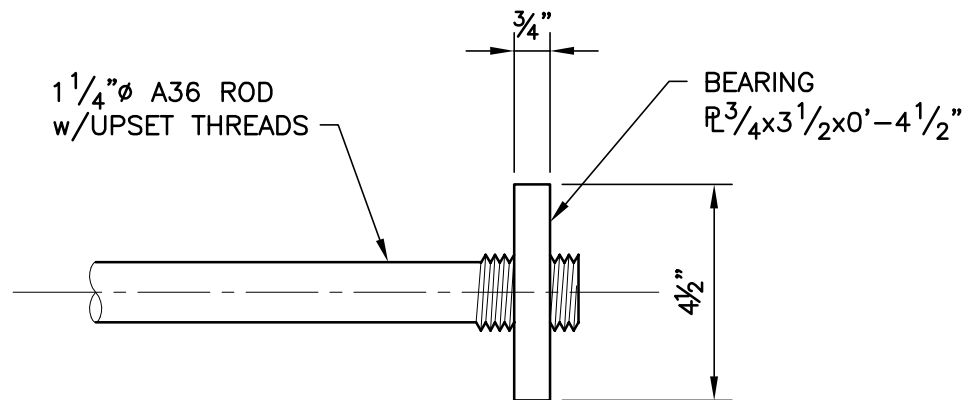
JOB NUMBER
604-92

DATE
02.18.2011

Construction Documents



PLAN VIEW



ELEVATION

3"=1'-0"

ROD BRACE DETAIL

1

Rod Brace Detail

FIGURE

ISSUED FOR PRICING
ONLY

NOT FOR CONSTRUCTION

TEST SPECIMEN A

JOB NUMBER
604-92

DATE
02.18.2011

Construction Documents