





## REINFORCING

- Reinforcement work of detailing, fabrication and erection shall conform to "Building Code Requirements for Reinforced Concrete" (ACI 318-14, "ACI Building Manual - 2004" (SP-46), "CRSI Manual of Standard Practice, 20th Edition" (2009), and "Structural Welding Code - Reinforcing Steel" (AWS D1.4-2011).
- Reinforcing shall be new mild steel conforming to the following standards:
  - Steel Reinforcement ASTM A615 Grade 60 (Yield stress 60 KSI)
  - Weldable Steel Reinforcement ASTM A706 Grade 60 (Yield stress 60 KSI)
  - Welded wire mesh ASTM A497/A497M-07
  - Epoxy coated reinforcement ASTM A773M-97e2 and ASTM D3963

All codes to be listed edition.

NOTE: weldable reinforcement (including deformed bar anchors) must be clearly identified on each piece.

- Reinforcement shall have concrete protection as follows, unless noted otherwise:
  - Fire resistance rating: 2" (50)

ELEMENT

All surfaces placed in contact with ground

Formed surfaces exposed to ground or weather

Walls

Column ties

Reinforcing walls

Retaining walls

Supp slabs and slab bands

Structural slab on grade, zone ties, non-reinforcing walls

Other, unless otherwise noted

NOTE: Provide at least minimum cover per ACI 318-14 Section 20.6.1.3.

b. Concrete with no membrane and exposed to chlorides

c. All #10 bars to have 5 hr fire resistance cover

Note: largest cover required governs. Refer to Architectural and Structural drawings for areas requiring 3 hr fire rating, and Structural drawings for areas classified as b) above.

- All reinforcing bars shall be accurately placed, chaired and tied securely to prevent displacement and to maintain the specified concrete cover. Reinforcement shall be lap welded and provide hooked dowels from bottom of footing to match and lap with verticals. Install masonry dowels accurately to align with center of wall. Chairs shall be protected against rusting where required for appearance. Do not wet dowel reinforcement unless approved by the Engineer.

- Provide epoxy coated rebars where noted on plan in accordance with ASTM A955/A955M-13 latest edition. Chair bars with plastic chairs and tie with plastic coated wire.

- Minimum reinforcement shall be as follows unless noted otherwise:
  - Wall reinforcement:

MINIMUM CONCRETE WALL REINFORCEMENT

WALL THICKNESS

Less than 10" (250)

10" (250) to 12" (300)

12" (300) to 18" (450)

18" (450) to 24" (600)

24" (600) to 30" (750)

30" (750) to 36" (900)

36" (900) to 42" (1050)

42" (1050) to 48" (1200)

48" (1200) to 54" (1350)

54" (1350) to 60" (1500)

60" (1500) to 66" (1650)

66" (1650) to 72" (1800)

72" (1800) to 78" (1950)

78" (1950) to 84" (2100)

84" (2100) to 90" (2250)

90" (2250) to 96" (2400)

96" (2400) to 102" (2550)

102" (2550) to 108" (2700)

108" (2700) to 114" (2850)

114" (2850) to 120" (3000)

120" (3000) to 126" (3150)

126" (3150) to 132" (3300)

132" (3300) to 138" (3450)

138" (3450) to 144" (3600)

144" (3600) to 150" (3750)

150" (3750) to 156" (3900)

156" (3900) to 162" (4050)

162" (4050) to 168" (4200)

168" (4200) to 174" (4350)

174" (4350) to 180" (4500)

180" (4500) to 186" (4650)

186" (4650) to 192" (4800)

192" (4800) to 198" (4950)

198" (4950) to 204" (5100)

204" (5100) to 210" (5250)

210" (5250) to 216" (5400)

216" (5400) to 222" (5550)

222" (5550) to 228" (5700)

228" (5700) to 234" (5850)

234" (5850) to 240" (6000)

240" (6000) to 246" (6150)

246" (6150) to 252" (6300)

252" (6300) to 258" (6450)

258" (6450) to 264" (6600)

264" (6600) to 270" (6750)

270" (6750) to 276" (6900)

276" (6900) to 282" (7050)

282" (7050) to 288" (7200)

288" (7200) to 294" (7350)

294" (7350) to 300" (7500)

300" (7500) to 306" (7650)

306" (7650) to 312" (7800)

312" (7800) to 318" (7950)

318" (7950) to 324" (8100)

324" (8100) to 330" (8250)

330" (8250) to 336" (8400)

336" (8400) to 342" (8550)

342" (8550) to 348" (8700)

348" (8700) to 354" (8850)

354" (8850) to 360" (9000)

360" (9000) to 366" (9150)

366" (9150) to 372" (9300)

372" (9300) to 378" (9450)

378" (9450) to 384" (9600)

384" (9600) to 390" (9750)

390" (9750) to 396" (9900)

396" (9900) to 402" (10050)

402" (10050) to 408" (10200)

408" (10200) to 414" (10350)

414" (10350) to 420" (10500)

420" (10500) to 426" (10650)

426" (10650) to 432" (10800)

432" (10800) to 438" (10950)

438" (10950) to 444" (11100)

444" (11100) to 450" (11250)

450" (11250) to 456" (11400)

456" (11400) to 462" (11550)

462" (11550) to 468" (11700)

468" (11700) to 474" (11850)

474" (11850) to 480" (12000)

480" (12000) to 486" (12150)

486" (12150) to 492" (12300)

492" (12300) to 498" (12450)

498" (12450) to 504" (12600)

504" (12600) to 510" (12750)

510" (12750) to 516" (12900)

516" (12900) to 522" (13050)

522" (13050) to 528" (13200)

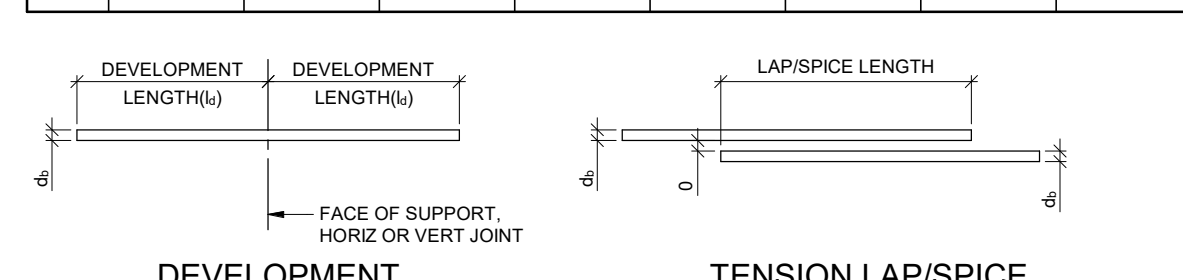
528" (13200) to 534" (13350)

534" (13350) to 540" (13500)

## REINFORCING (Continued)

- Tension Lengths, unless noted otherwise, shall be as follows:

| TENSION DEVELOPMENT AND SPLICE LENGTHS |                            |               |               |                             |               |
|--|----------------------------|---------------|---------------|-----------------------------|---------------|
| REBAR SIZE                             | TENSION DEVELOPMENT LENGTH |               |               | TENSION LAP / SPLICE LENGTH |               |
|  | TOP BARS                   | OTHER BARS    | TOP BARS      | OTHER BARS                  |               |
| #3                                     | 1'-7" (400)                | 1'-7" (400)   | 1'-7" (400)   | 1'-7" (400)                 | 1'-7" (400)   |
| #4                                     | 2'-1" (600)                | 1'-11" (300)  | 1'-11" (300)  | 1'-11" (300)                | 1'-11" (300)  |
| #5                                     | 2'-7" (700)                | 2'-4" (200)   | 2'-4" (200)   | 2'-4" (200)                 | 2'-4" (200)   |
| #6                                     | 3'-7" (900)                | 2'-10" (600)  | 2'-10" (600)  | 2'-10" (600)                | 2'-10" (600)  |
| #7                                     | 4'-7" (1300)               | 4'-1" (1200)  | 4'-1" (1200)  | 4'-1" (1200)                | 4'-1" (1200)  |
| #8                                     | 5'-2" (1575)               | 4'-8" (1425)  | 4'-8" (1425)  | 4'-8" (1425)                | 4'-8" (1425)  |
| #9                                     | 5'-10" (1700)              | 5'-3" (1600)  | 5'-3" (1600)  | 5'-3" (1600)                | 5'-3" (1600)  |
| #10                                    | 6'-7" (2000)               | 5'-11" (1900) | 5'-11" (1900) | 5'-11" (1900)               | 5'-11" (1900) |
| #11                                    | 7'-2" (2275)               | 6'-4" (1900)  | 6'-4" (1900)  | 6'-4" (1900)                | 6'-4" (1900)  |



DEVELOPMENT

TENSION LAP/SPLICE

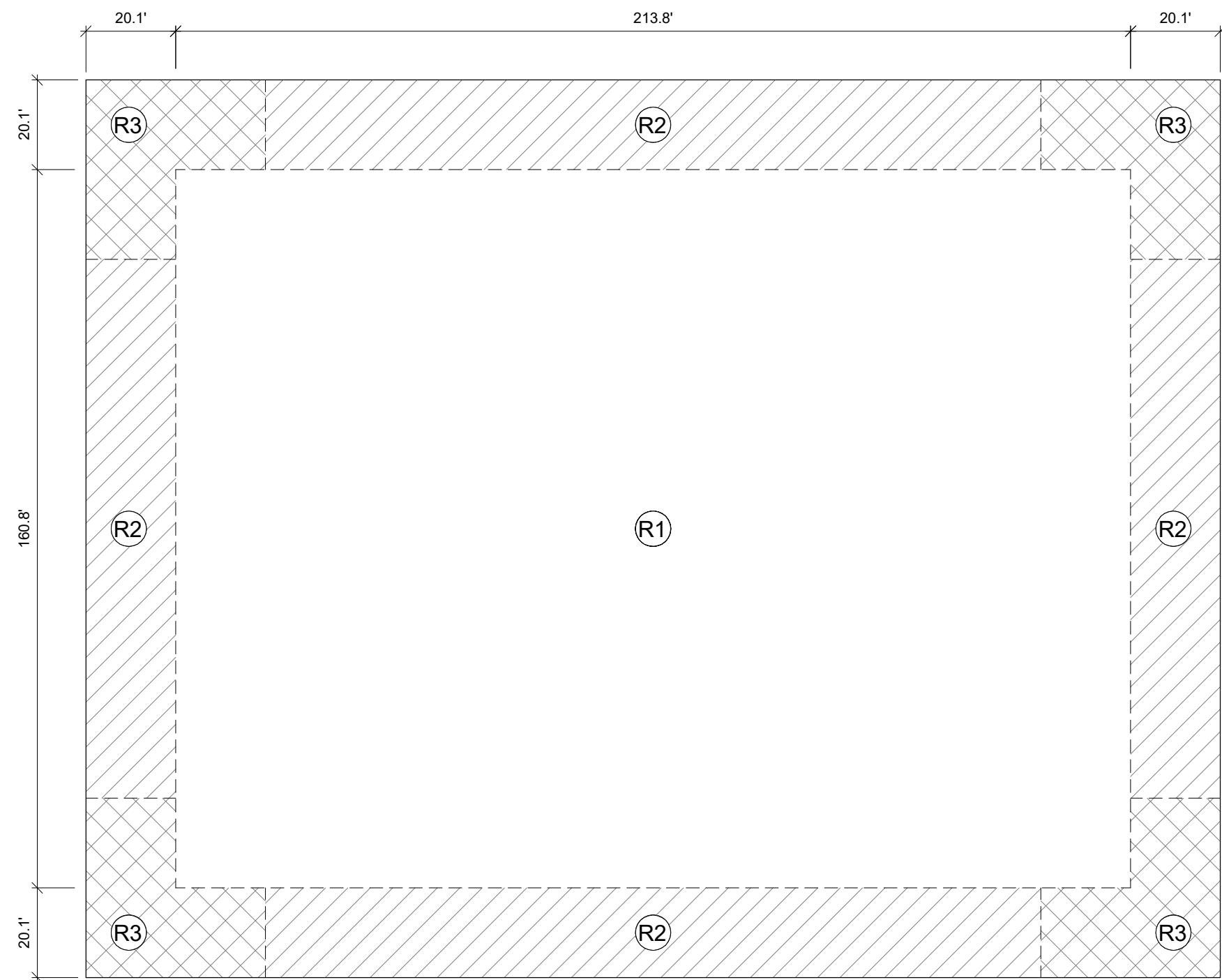




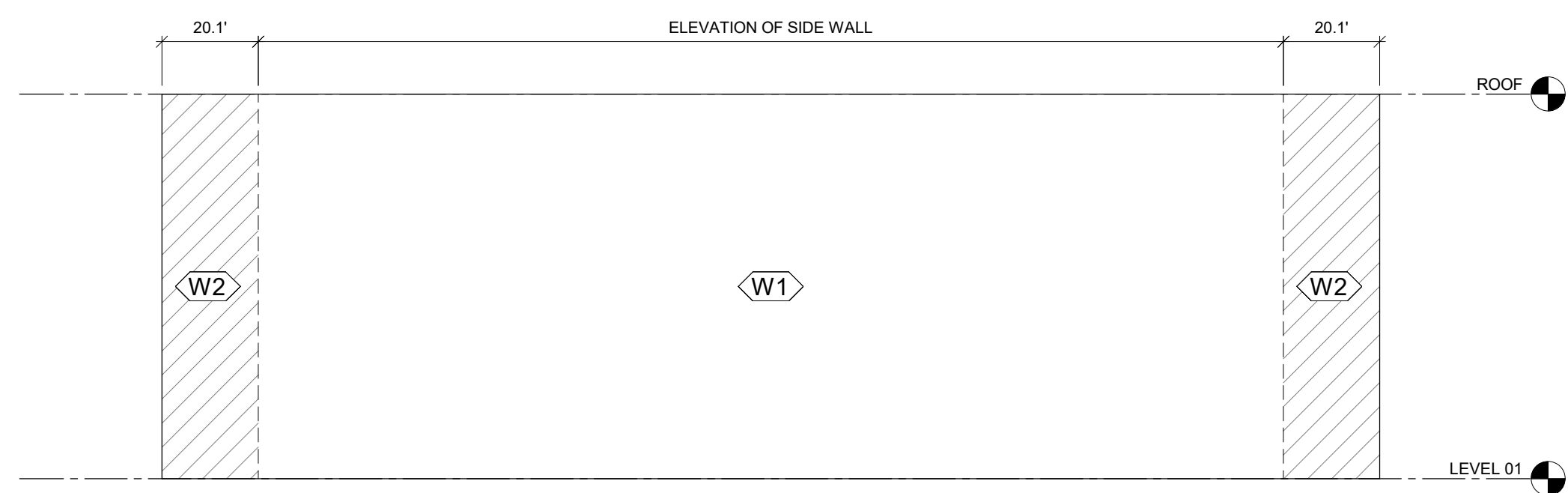
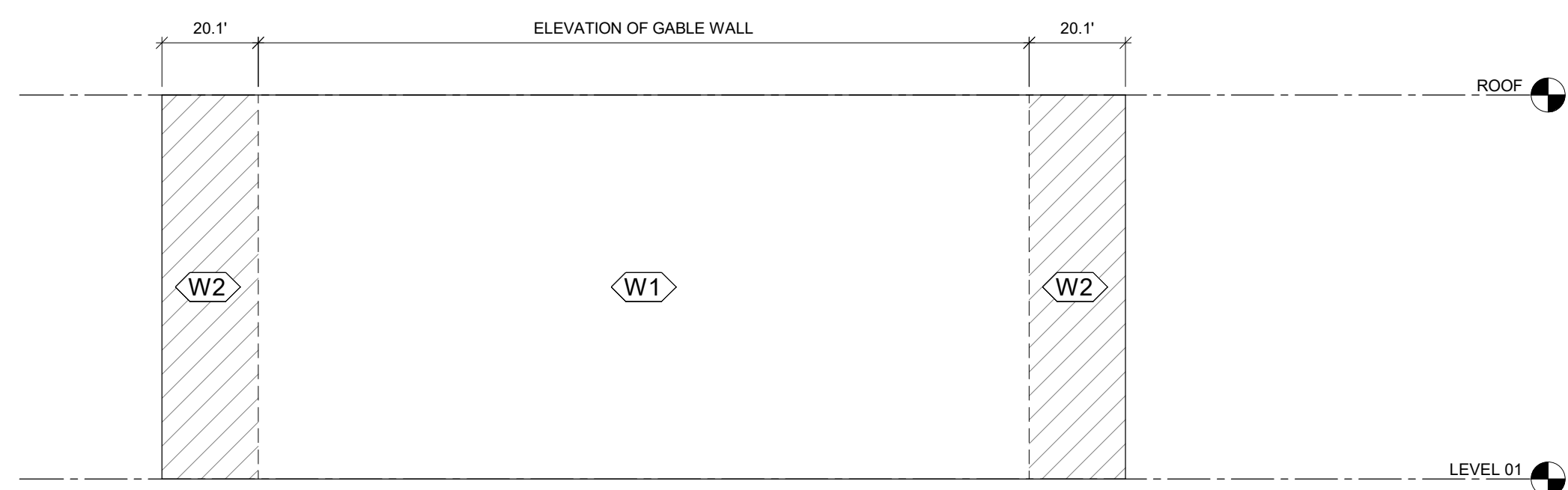








8 ZONE PRESSURES - ROOF PLAN  
1" = 30'-0"



7 ZONE PRESSURES - WALL ELEVATIONS  
1" = 30'-0"

| COMPONENT & CLADDING DESIGN WIND PRESSURES (PSF) |           |                        |           |           |                        |
|--|-----------|------------------------|-----------|-----------|------------------------|
| WALLS  |           |                        | ROOF      |           |                        |
| COMPONENT  | WALL ZONE | POSITIVE LOADING (PSF) | COMPONENT | ROOF ZONE | POSITIVE LOADING (PSF) |
| <20 sf (W)                                       | W1        | 24.1                   | <10 sf    | R1        | 35.2                   |
| 10 sf (W)  | W1        | 22.2                   | 10 sf     | R1        | 33.3                   |
| 200 sf (W)                                       | W1        | 19.3                   | 50 sf     | R1        | 30.0                   |
| >200 sf (W)                                      | W1        | 17.4                   | >100 sf   | R1        | 28.6                   |
| <20 sf (L/S)                                     | W1        | -                      | <10 sf    | R2        | 15.5                   |
| 50 sf (L/S)                                      | W1        | -                      | 20 sf     | R2        | 32.5                   |
| 200 sf (L/S)                                     | W1        | -                      | 50 sf     | R2        | 48.6                   |
| >200 sf (L/S)                                    | W1        | -                      | >100 sf   | R2        | 46.1                   |
| <20 sf (W)                                       | W2        | 24.1                   | <10 sf    | R3        | 15.5                   |
| 50 sf (W)  | W2        | 22.2                   | 10 sf     | R3        | 21.9                   |
| 200 sf (W)                                       | W2        | 19.3                   | 50 sf     | R3        | 47.8                   |
| >200 sf (W)                                      | W2        | 17.4                   | >100 sf   | R3        | 46.3                   |
| <20 sf (L/S)                                     | W2        | -                      | <10 sf    | R3        | -                      |
| 50 sf (L/S)                                      | W2        | -                      | 10 sf     | R3        | -                      |
| 200 sf (L/S)                                     | W2        | -                      | 50 sf     | R3        | -                      |
| >200 sf (L/S)                                    | W2        | -                      | >100 sf   | R3        | -                      |

#### LOAD MAP KEY

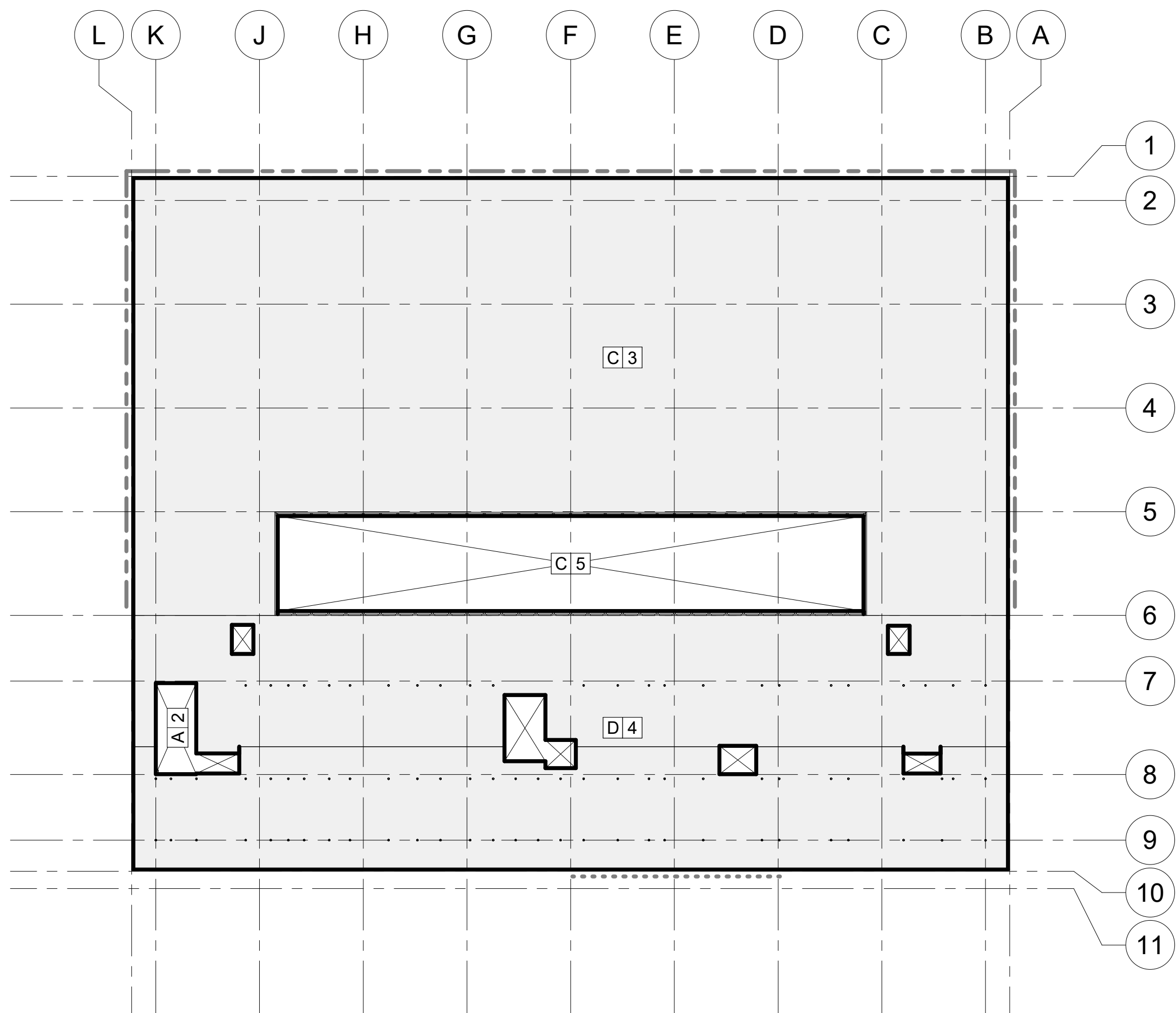
**A1** SUPERIMPOSED DEAD LOAD (SDL) DESIGNATIONS  
LIVE LOAD (LL) DESIGNATIONS

| LIVE LOAD (LL) DESIGNATIONS |   |                    |                         |
|-----------------------------|---|--------------------|-------------------------|
| MARK                        | USE   | UNIFORM LOAD (PSF) | CONCENTRATED LOAD (LBF) |
| A                           | LOBBIES, BALCONIES, STAIRS, EXITS, FIRST FLOOR CORRIDORS, RESTAURANTS | 100 (R)            | 2000                    |
| B                           | OFFICES AND CORRIDORS SERVING THEM                                    | 80 (R)             | 2000                    |
| C                           | ROOFS   | 20 (R)             | 300                     |
| D                           | CATWALKS  | 40 (R)             | 300                     |

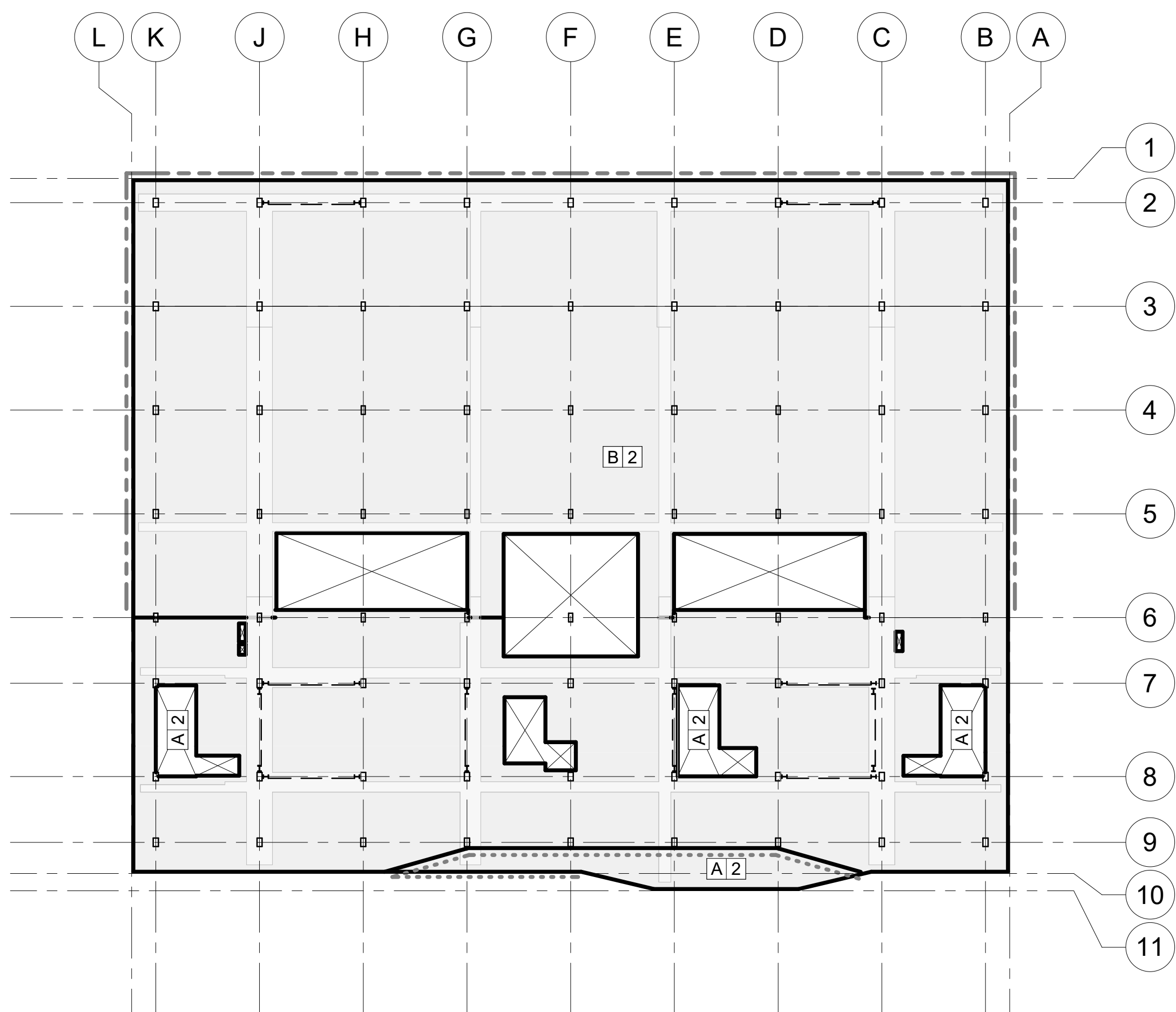
**NOTES:**  
1. LIVE LOADS INDICATED WITH (R) ARE REDUCIBLE.  
2. 10 PSF & 18 PSF PARTITION ALLOWANCE USED IN SEISMIC MASS CALCULATIONS.

| SUPERIMPOSED DEAD LOAD (SDL) DESIGNATIONS |                      |                          |                         |                        |                       |
|---|----------------------|--------------------------|-------------------------|------------------------|-----------------------|
| PLAN CALL OUT                             | USE                  | TOTAL UNIFORM LOAD (PSF) | FLOOR FINISH LOAD (PSF) | CEILING/MEP LOAD (PSF) | OTHER DEAD LOAD (PSF) |
| 1   | FIRST FLOOR          | 19                       | 5                       | 0                      | -                     |
| 2   | TYPICAL UPPER FLOOR  | 19                       | 15                      | 4                      | 0                     |
| 3   | TYPICAL ROOF         | 22                       | 7                       | 0                      | 10                    |
| 4   | ROOF MECHANICAL AREA | 59                       | 7                       | 92                     | 0                     |
| 5   | SKYLIGHT             | 26                       | 0                       | 11                     | 10                    |

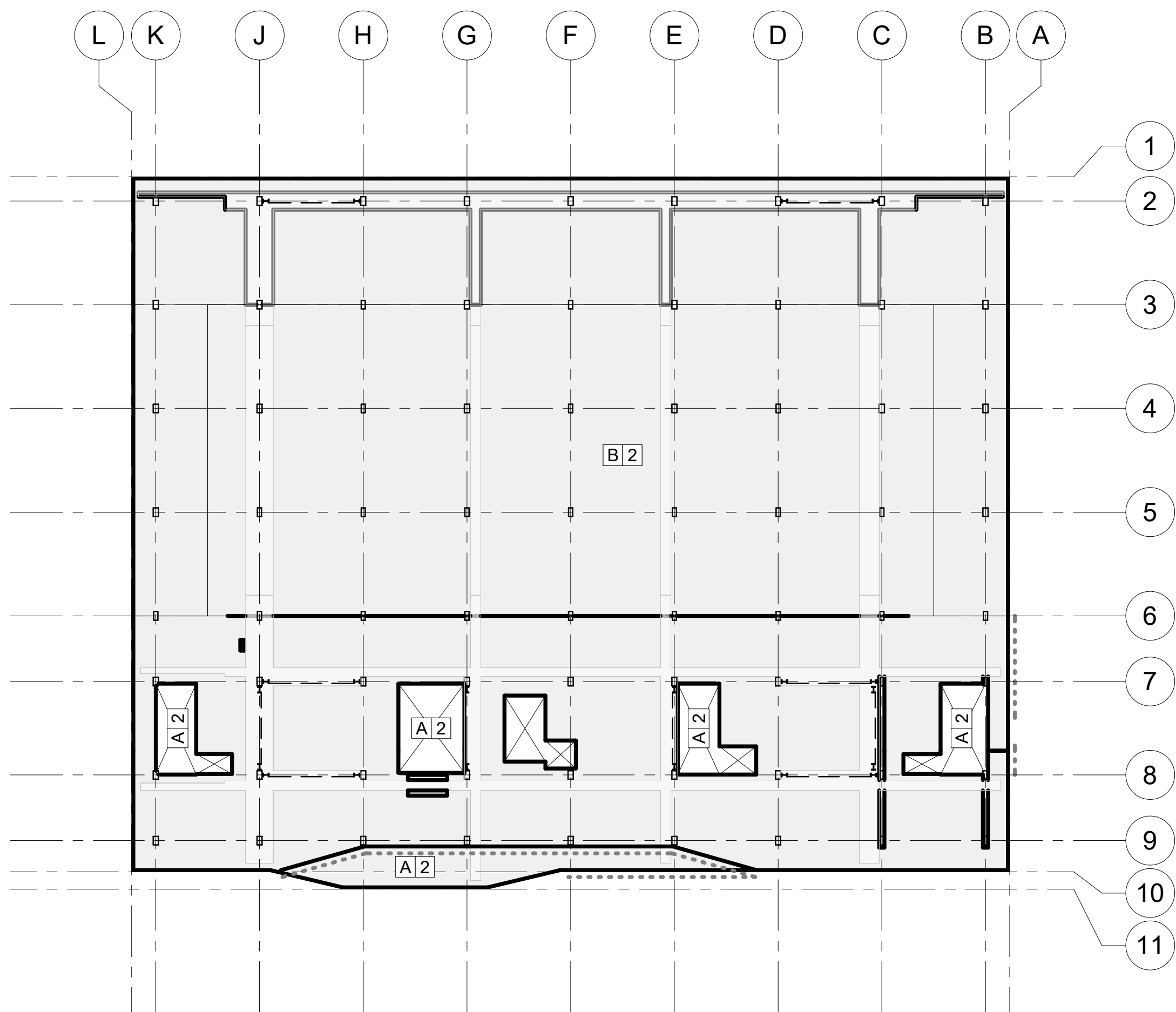
**NOTE:**  
\*\*\*\*\* SINGLE STOREY FACADE LOAD 270 LBF/FT  
== DOUBLE STOREY FACADE LOAD 560 LBF/FT



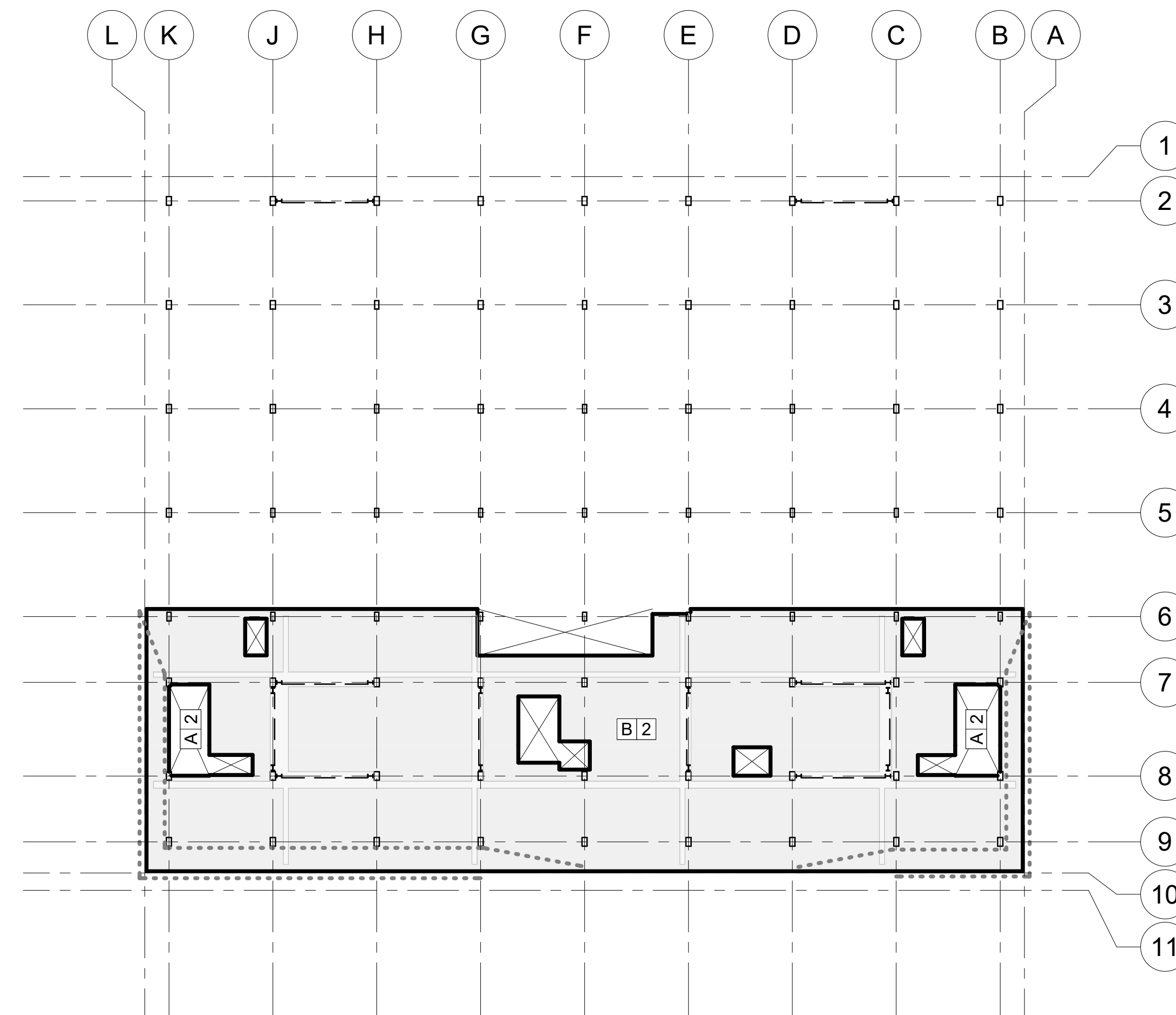
6 ROOF - LOADING PLAN  
1" = 30'-0"



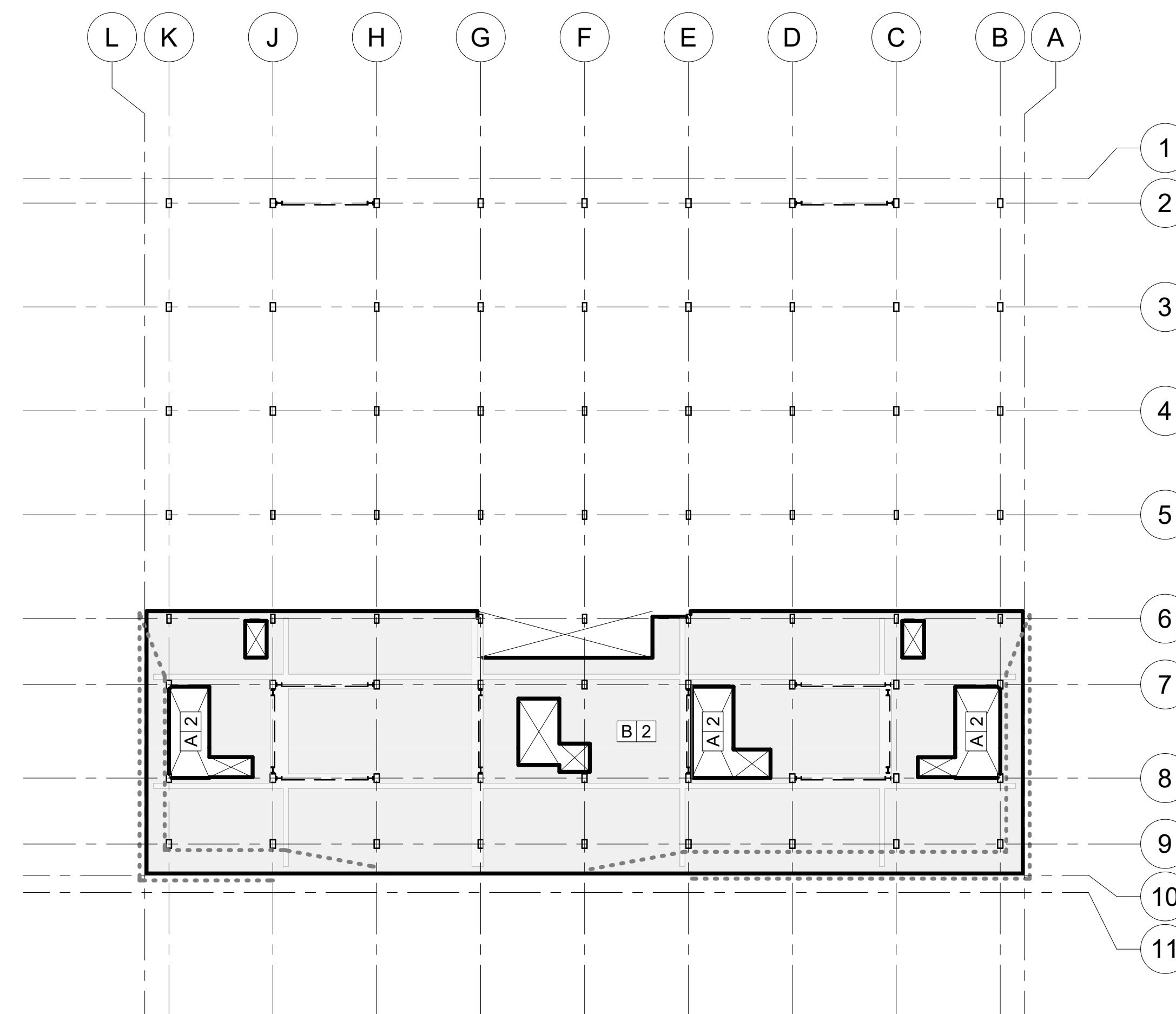
4 LEVEL 4 - LOADING PLAN  
1" = 30'-0"



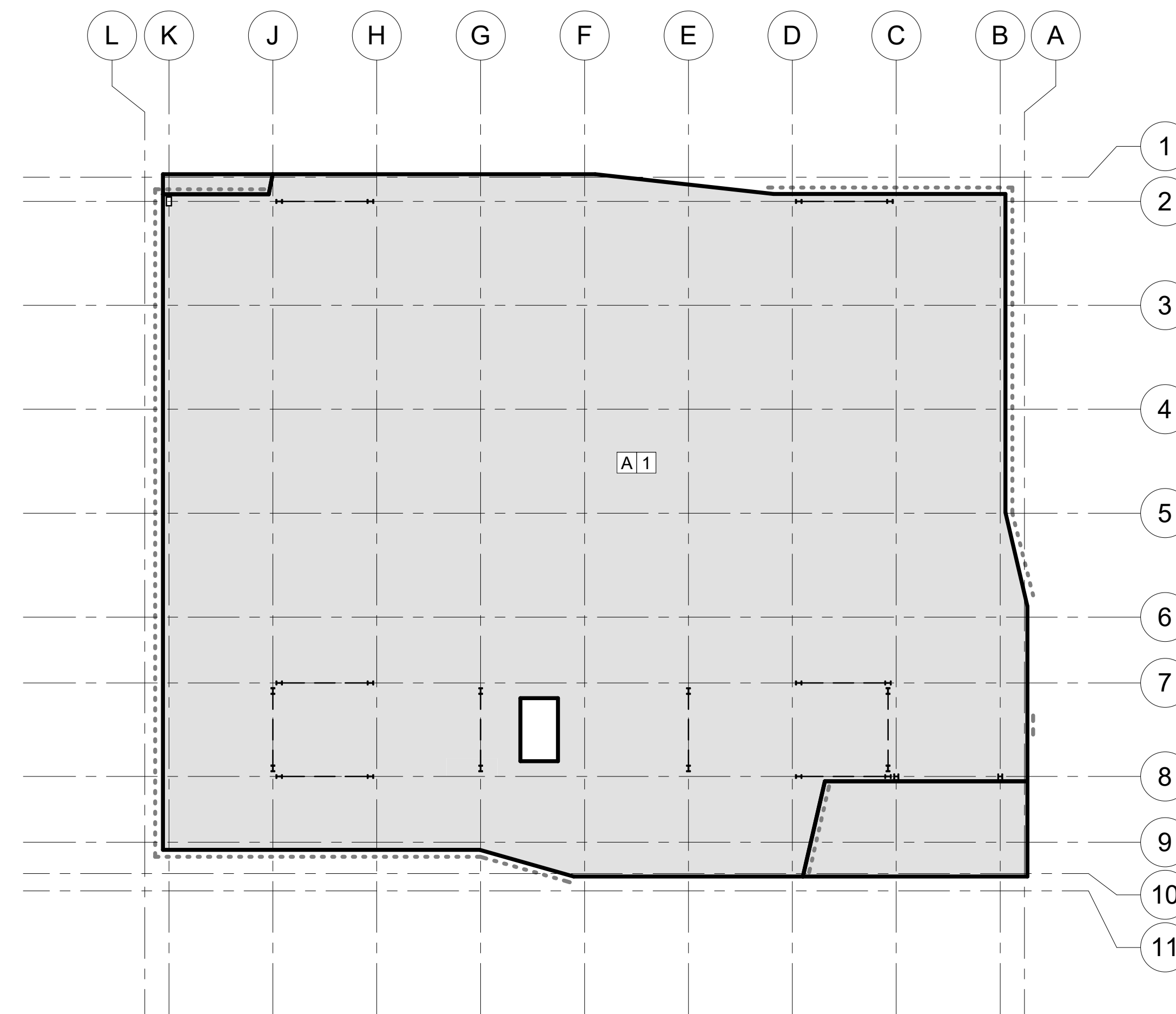
2 LEVEL 2 - LOADING PLAN  
1" = 30'-0"



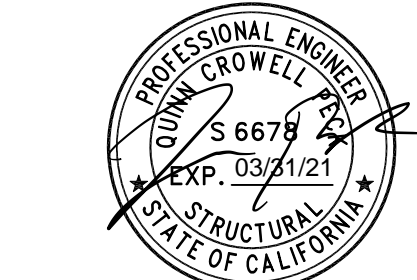
5 LEVEL 5 - LOADING PLAN  
1" = 30'-0"



3 LEVEL 3 - LOADING PLAN  
1" = 30'-0"



1 LEVEL 1 - LOADING PLAN  
1" = 30'-0"



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By: **LOK C. PHIROZE W.**  
YVONNE C.  
Date: 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

**1265 Borregas**  
GOOGLE LLC  
SUNNYVALE, CA

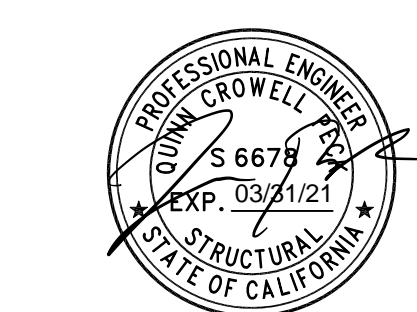
REVISIONS  
1. PLAN CHECK  
2. PLAN CHECK  
3. PLAN CHECK  
4. PLAN CHECK  
5. PLAN CHECK  
6. PLAN CHECK  
7. PLAN CHECK  
8. PLAN CHECK  
9. PLAN CHECK  
10. PLAN CHECK  
11. PLAN CHECK

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ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

STRUCTURAL  
LOAD MAPS  
**S010**

PERMIT SET





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By YVONNE C. PHIROZE  
Date 7/28/2020  
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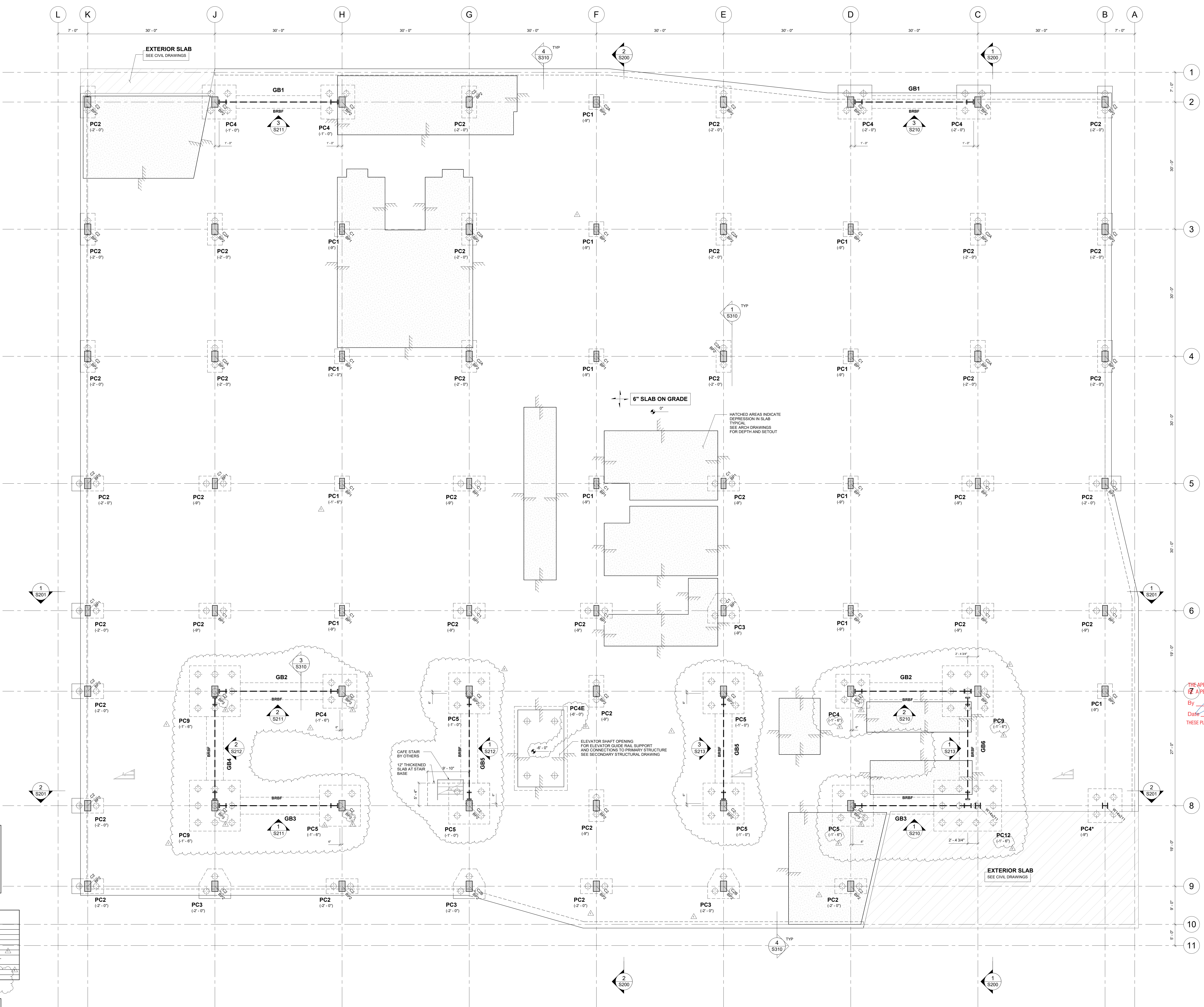
**1265 Borregas**  
GOOGLE LLC  
1265 BORREGAS AVE  
SUNNYVALE CA

ISSUED FOR PERMIT 06/01/2020  
1 PLAN CHECK 09/03/2020  
RESPONSE 1  
2 PLAN CHECK 08/05/2020  
RESPONSE 2

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ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

FOUNDATION /  
LEVEL 01 PLAN  
**S101**

PERMIT SET



- NOTES:
- ALL FOUNDATION TOP ELEVATION IS RELATIVE TO LEVEL 01.
  - ALL PILE CAPS TO BE CENTERED TO GRIDLINES RELATIVE TO PILE CENTERLINES SHOWN ON DETAILS UNLESS SHOWN OTHERWISE ON PLAN.
  - SEE S300 FOR PILE CAP REINFORCING.
  - TOP OF GRADE BEAM ALIGNS WITH TOP OF PILE CAP. WHERE ELEVATION DIFFERENCE OCCURS BETWEEN ADJACENT PILE CAPS, SLOPE GRADE BEAM BETWEEN PILE CAPS.
  - REFER TO S210 SERIES FOR TYP BRBF BRACE SECTION SIZES.
  - REFER TO S11x FOR SLAB ON GRADE REINFORCING.

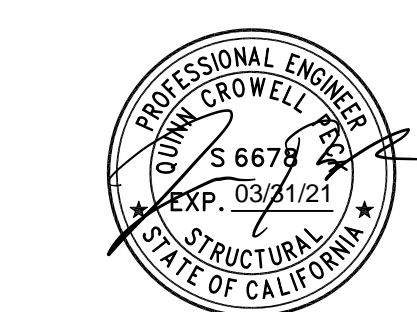
| PILE CAP SCHEDULE |                              |              |   |
|-------------------|------------------------------|--------------|---|
| TYPE              | CAP DIMENSIONS               | No. OF PILES | REMARKS                                     |
| PC1               | 3'-0"x3'-0" DP               | 1            |   |
| PC2               | 7'-0"x7'-0" DP               | 2            |   |
| PC3               | 7'-0"x7'-0" DP               | 3            | TRIM CORNERS AS PER S300                    |
| PC4               | 16'-0"x8'-0" DP              | 4            |   |
| PC4E              | 16'-0"x8'-0" DP              | 4            | SEE DETAIL FOR PC4                          |
| PC4E              | 1'-0" DP + MATCH FIT WALL OF |              | SEE DETAIL FOR ELEVATOR PIT PILE CAP DETAIL |
| PC5               | 12'-0"x12'-0" DP             | 5            | PILE LOCATION SEE PLAN                      |
| PC12              | 16'-0"x12'-0" DP             | 12           |   |

| GRADE BEAM SCHEDULE |                |          |          |                |
|---------------------|----------------|----------|----------|----------------|
| MARK                | DIMENSIONS     | TOP REIN | BOT REIN | STIRRUPS       |
| GB1                 | 3'-0"x3'-0" DP | 7#4      |          | #4 @ 6" S LEGS |
| GB2                 | 4'-0"x3'-0" DP | 7#4      |          | #4 @ 6" S LEGS |
| GB3                 | 4'-0"x3'-0" DP | 8#4      |          | #4 @ 6" S LEGS |
| GB4                 | 4'-0"x3'-0" DP | 12#4     |          | #4 @ 6" S LEGS |
| GB5                 | 4'-0"x3'-0" DP | 10#4     |          | #4 @ 6" S LEGS |
| GB6                 | 4'-0"x3'-0" DP | 12#4     |          | #4 @ 6" S LEGS |

| COLUMN SCHEDULE |      |                |                        |
|-----------------|------|----------------|------------------------|
| MARK            | TYPE | SIZE           | REMARKS                |
| C1              | WOOD | GL14 14x29 3/4 |                        |
| C1A             | WOOD | GL14 14x29 3/4 | NOTCHED SERVICE COLUMN |
| C2              | WOOD | GL17 34x29 3/4 |                        |
| C2A             | WOOD | GL17 34x29 3/4 | NOTCHED SERVICE COLUMN |
| C2B             | WOOD | GL17 34x29 3/4 | NOTCHED SERVICE COLUMN |

FOUNDATION / LEVEL 01  
1/8" = 1'-0"





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By LOK C. PHIROZE W.  
YVONNE C.  
Date: 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

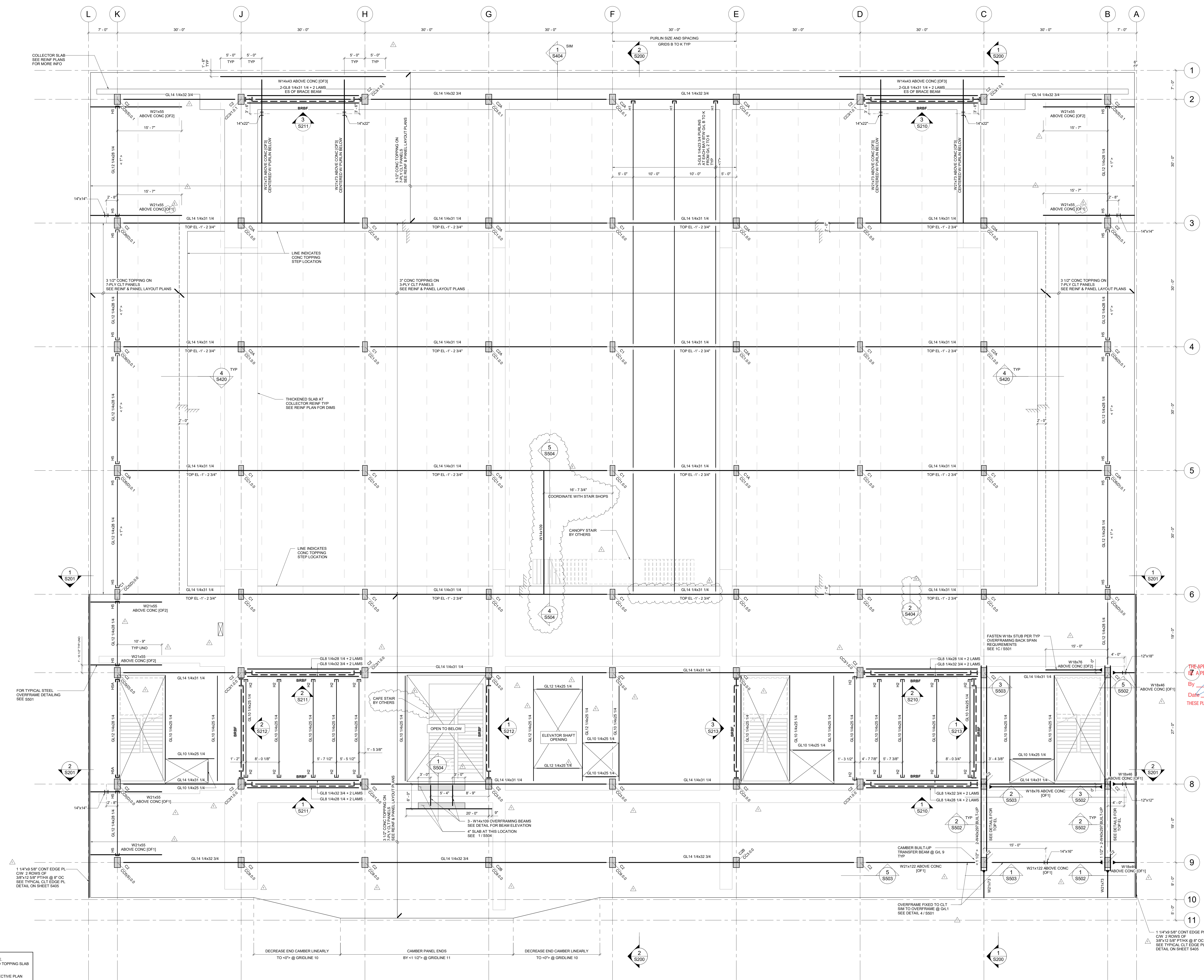
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SUNNYVALE CA

REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1. PLAN CHECK 09/03/2020  
RESPONSE 1  
ITEMS IN PROGRESS NOT  
TO BE REVISED ISSUED  
2. PLAN CHECK 08/05/2020  
RESPONSE 2

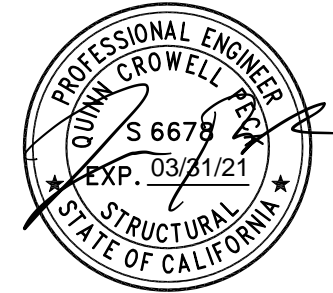
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ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16940

LEVEL 02 PLAN  
**S102**


PERMIT SET







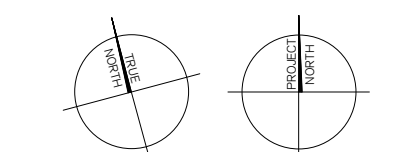
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YVONNE C.  
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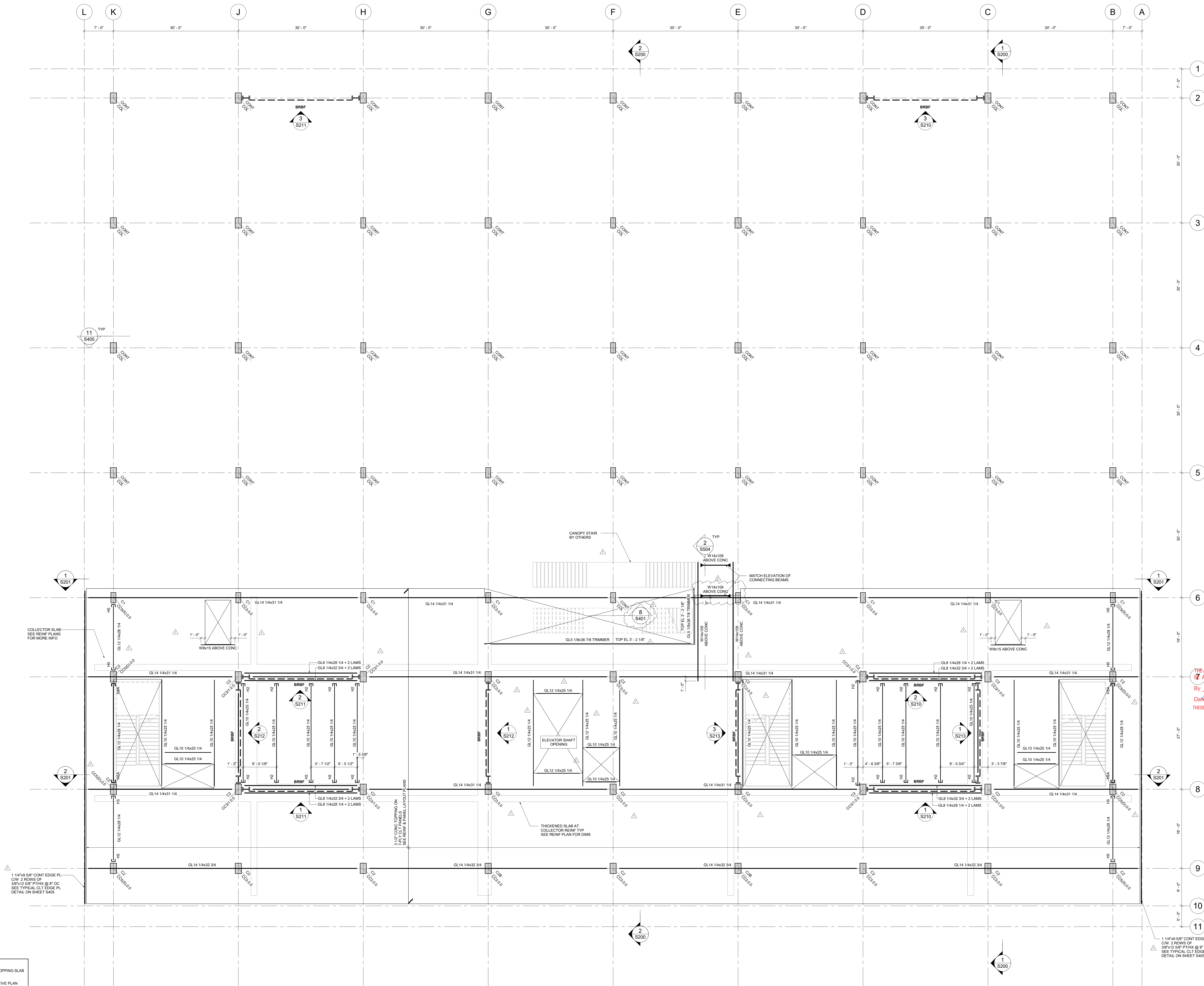
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1 PLAN CHECK 09/03/2020  
RESPONSE 1  
2 PLAN CHECK 08/05/2020  
RESPONSE 2



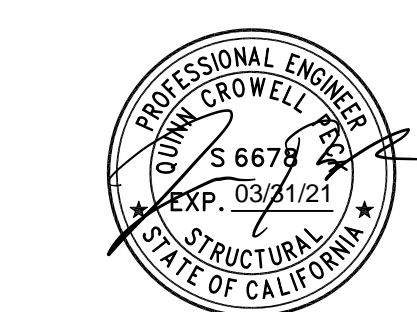
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ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

LEVEL 03 PLAN  
**S103**

PERMIT SET



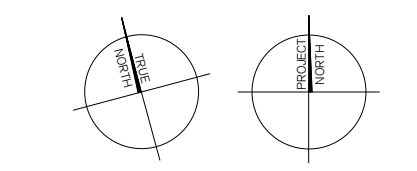




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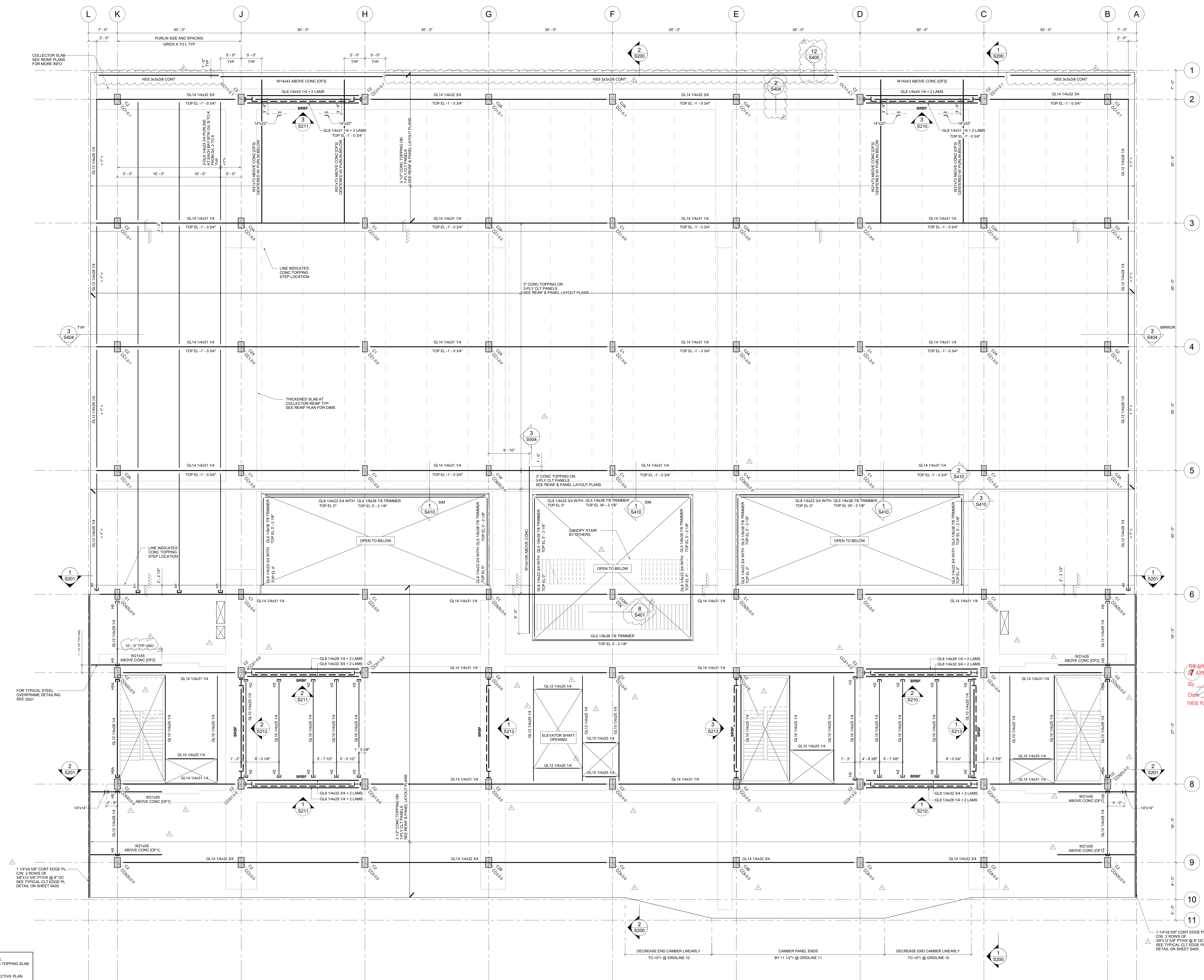
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| 1         | PLAN CHECK RESPONSE 1 | 09/03/2020 |
| 2         | PLAN CHECK RESPONSE 2 | 08/05/2020 |



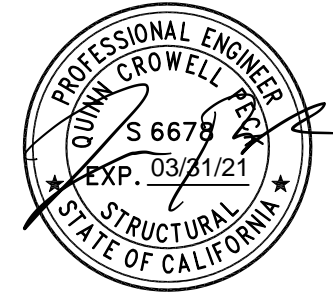
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ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

LEVEL 04 PLAN  
**S104**

PERMIT SET







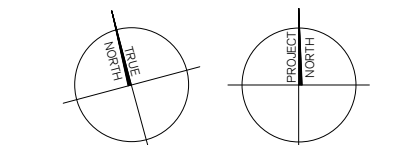
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**APPROVED**

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By:   
LOK C. PHIROZE W.,  
YVONNE C.  
Date: 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

GOODELL LLC  
1265 BORREGAS AVE.  
SUNNYVALE, CA

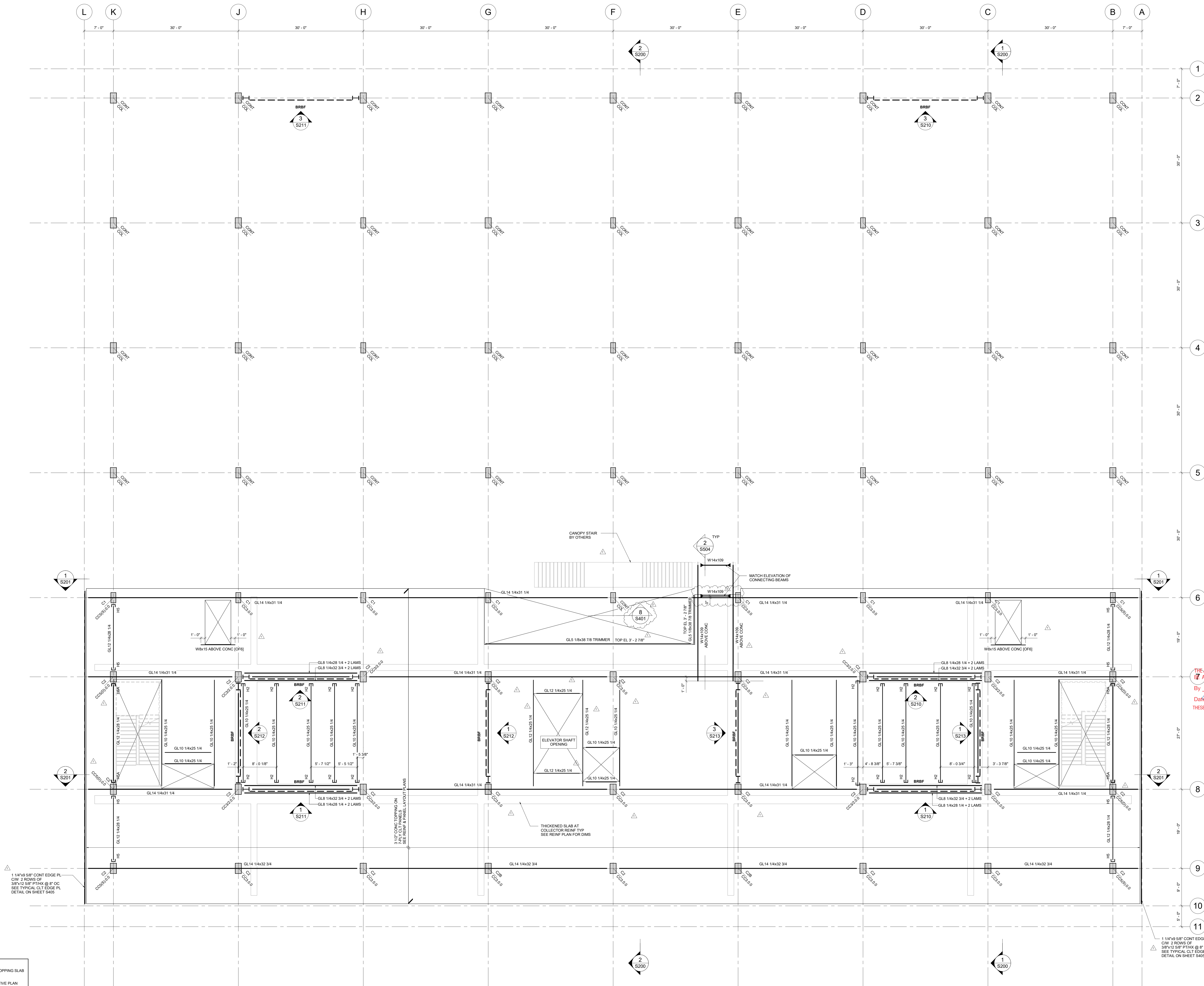
REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1. PLAN CHECK 09/03/2020  
RESPONSE 1  
2. PLAN CHECK 08/05/2020  
RESPONSE 2



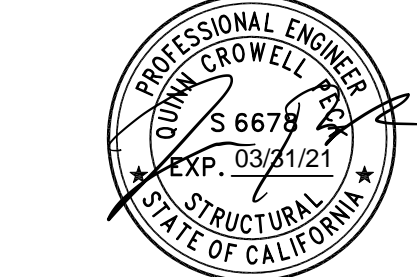
CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040


LEVEL 05 PLAN  
**S105**

PERMIT SET







CSG CONSULTANTS, INC.  
THESE PLANS AND DETAILS ARE  
**APPROVED**  
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BE A GUARANTEE FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.  
By  LOK C. PHIROZE W.,  
Date: 7/28/2020 YVONNE C.  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

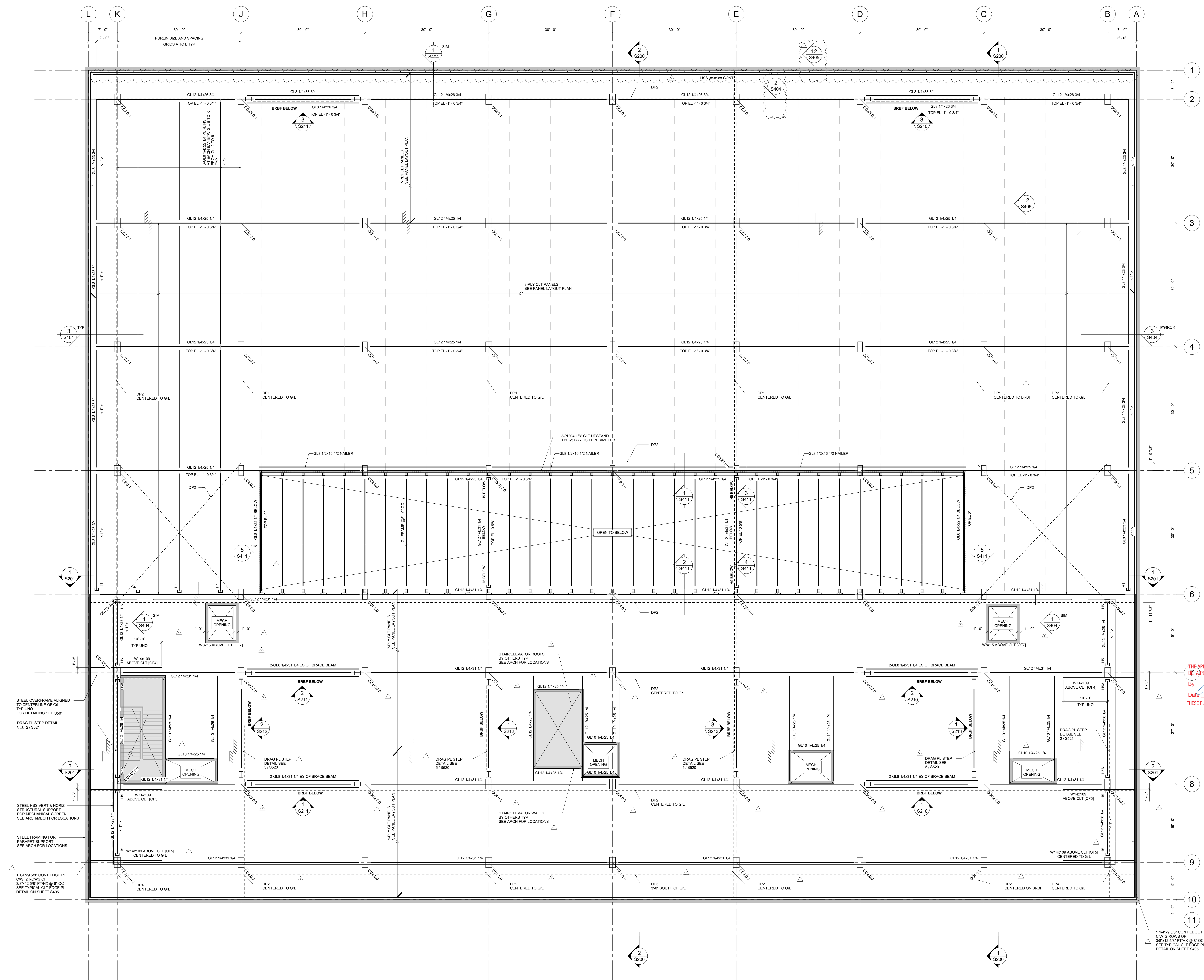
**1265 Borregas**  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1 PLAN CHECK 09/03/2020  
RESPONSE 1  
2 PLAN CHECK 08/05/2020  
RESPONSE 2

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

ROOF PLAN  
**S106**

PERMIT SET



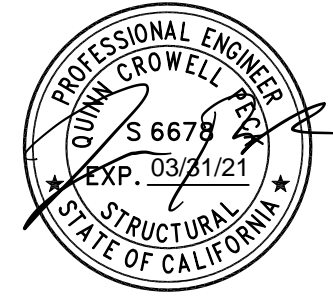
**NOTES:**  
--- DENOTES DRAG PLATE ON PLAN  
FOR MORE INFORMATION SEE SHEET S521  
1. [OPF] REFERS TO OVERFRAME FIXING TYPE S501

**ROOF PLAN**  
1/8" = 1'-0"









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**APPROVED**

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By LOK C. PHIROZE W.  
YVONNE C.

Date: 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

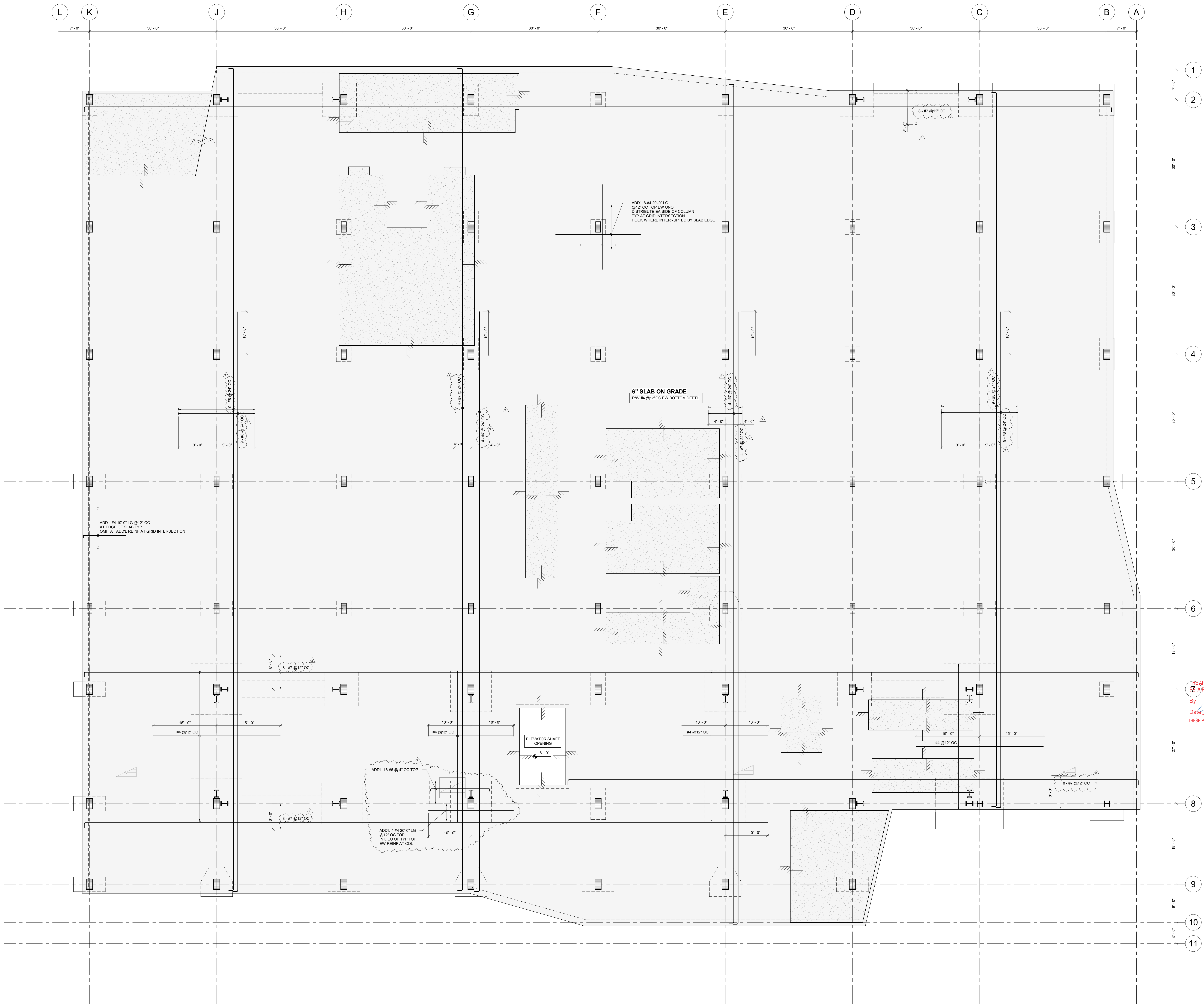
GOOGLE LLC  
1600 AMERICA AVE  
SUNNYVALE CA

| REVISIONS |            |            |
|-----------|------------|------------|
| 1         | PLAN CHECK | 06/01/2020 |
| 1         | PLAN CHECK | 09/03/2020 |
| 2         | PLAN CHECK | 08/05/2020 |

|             |            |
|-------------|------------|
| CHECKED BY: | SK         |
| ISSUE DATE: | 9 MAR 2020 |
| PROJECT NO: | 16040      |

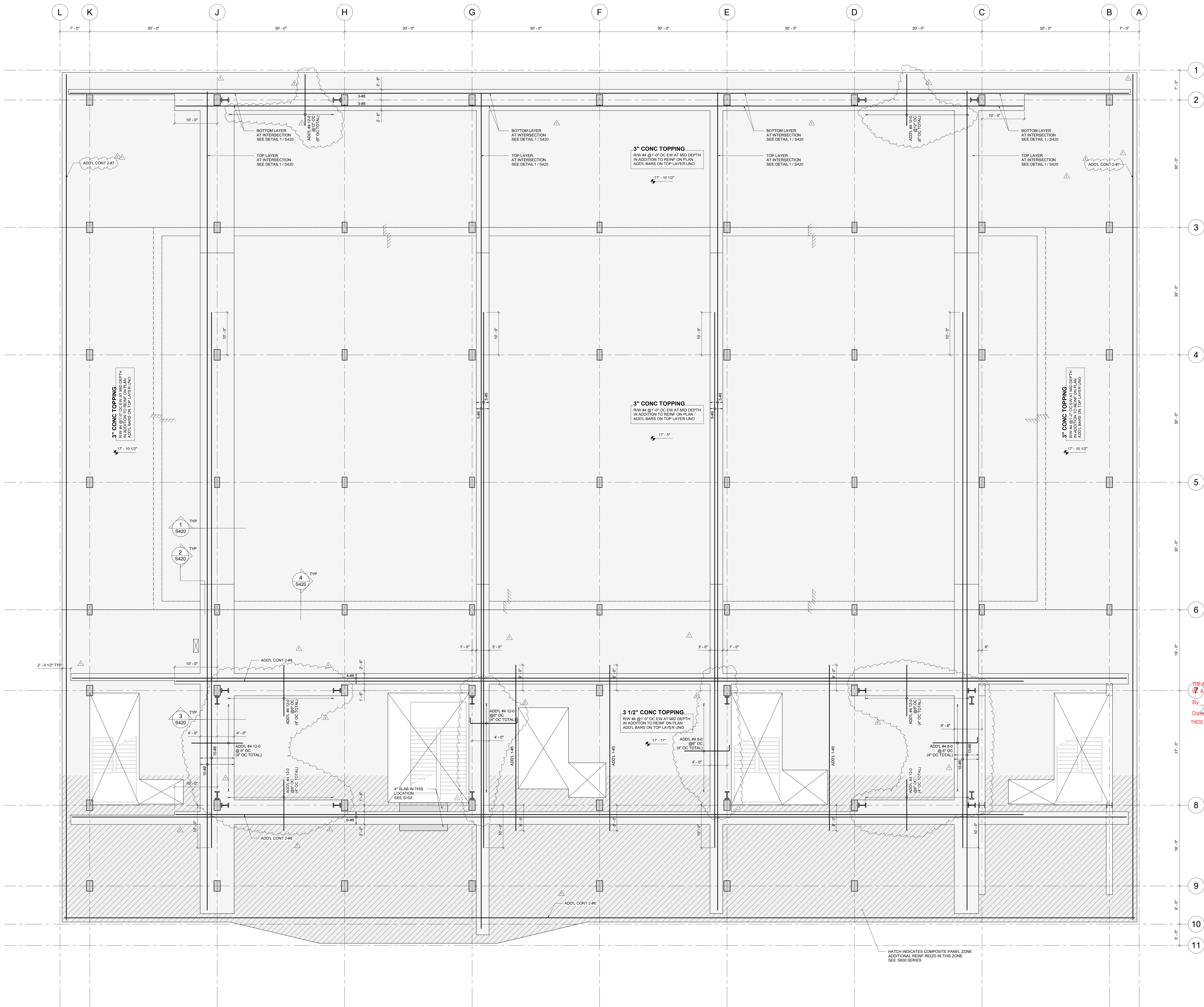
LEVEL 01 REINF  
PLAN  
**S111**

PERMIT SET

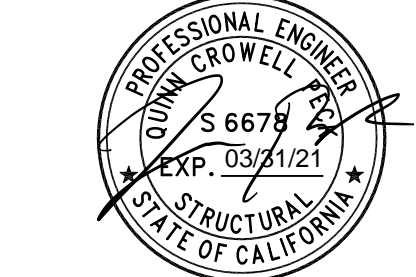


LEVEL 01 REINF PLAN  
1/8" = 1'-0"





LEVEL 02 REINF PLAN  
1/8" = 1'-0"



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By: L. C. PHIROZE W.,  
YVONNE C.  
Date: 7/28/2020  
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1265 Borregas  
GOOGLE LLC  
SUNNYVALE CA

| REVISIONS     |            |
|---------------|------------|
| 1. PLAN CHECK | 06/01/2020 |
| 2. PLAN CHECK | 09/03/2020 |
| 3. PLAN CHECK | 08/05/2020 |

|             |            |
|-------------|------------|
| CHECKED BY: | SK         |
| ISSUE DATE: | 9 MAR 2020 |
| PROJECT NO: | 18040      |

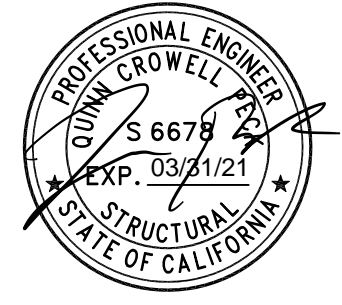
LEVEL 02 REINF  
PLAN  
**S112**

PERMIT SET









CSG CONSULTANTS, INC.

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BE A GUARANTEE FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.

By **LOK C. PHIROZE W.,**

**YVONNE C.**

Date: **7/28/2020**

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

GOOGLE LLC

1265 BORREGAS AVE.

SUNNYVALE CA

REVISIONS

ISSUED FOR PERMIT 06/11/2020

1 PLAN CHECK 09/03/2020

RESPONSE 1

2 PLAN CHECK 08/05/2020

RESPONSE 2

CHECKED BY: SK

ISSUE DATE: 9 MAR 2020

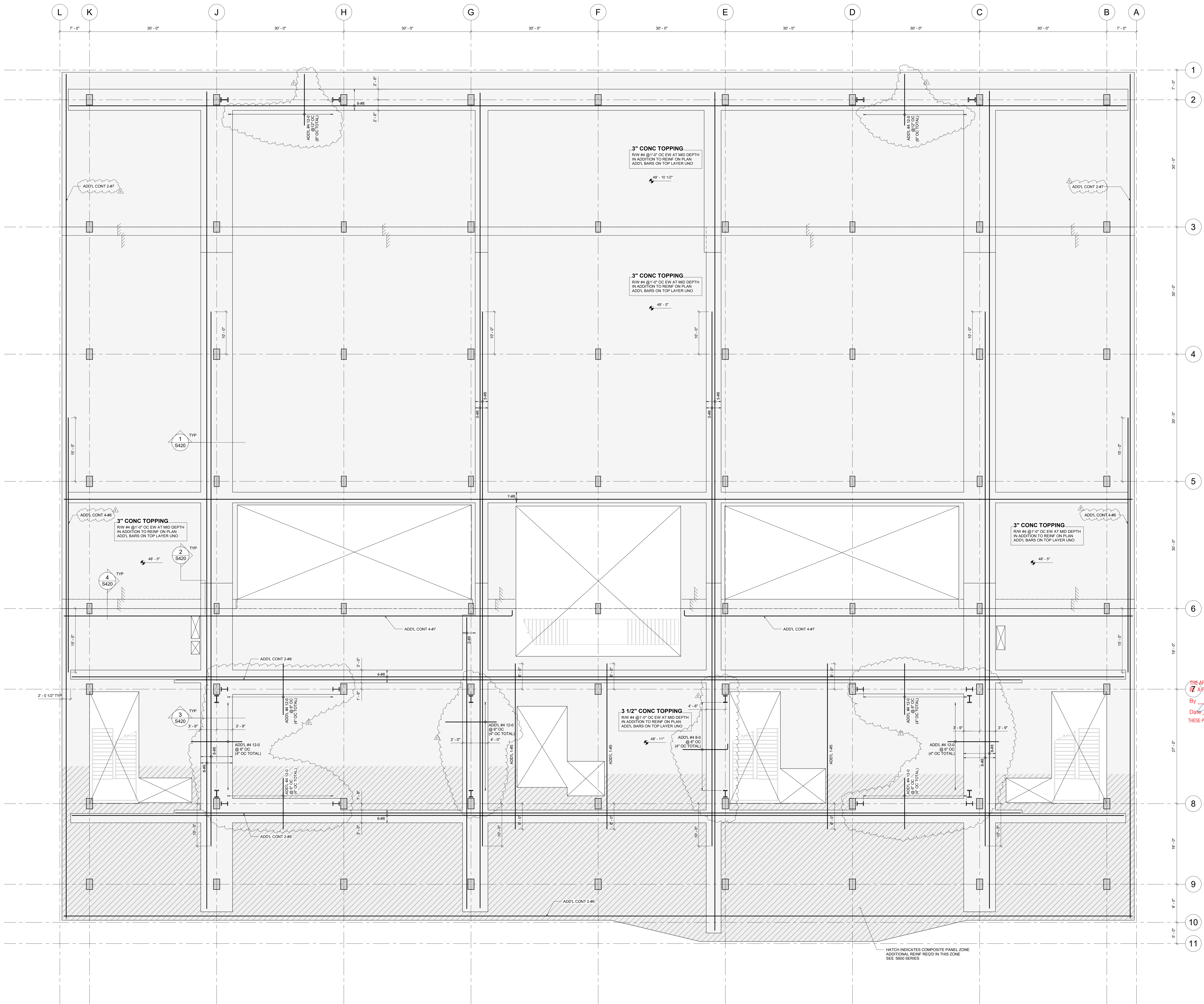
PROJECT NO: 18040

LEVEL 04 REINF

PLAN

**S114**

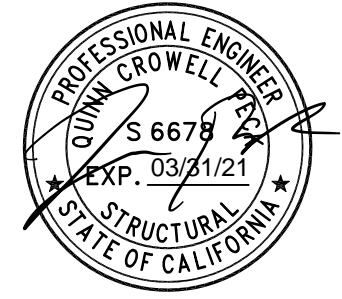
PERMIT SET



LEVEL 04 REINF PLAN

10" x 11"





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By LOK C. PHIROZE W.  
YVONNE C.  
Date: 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

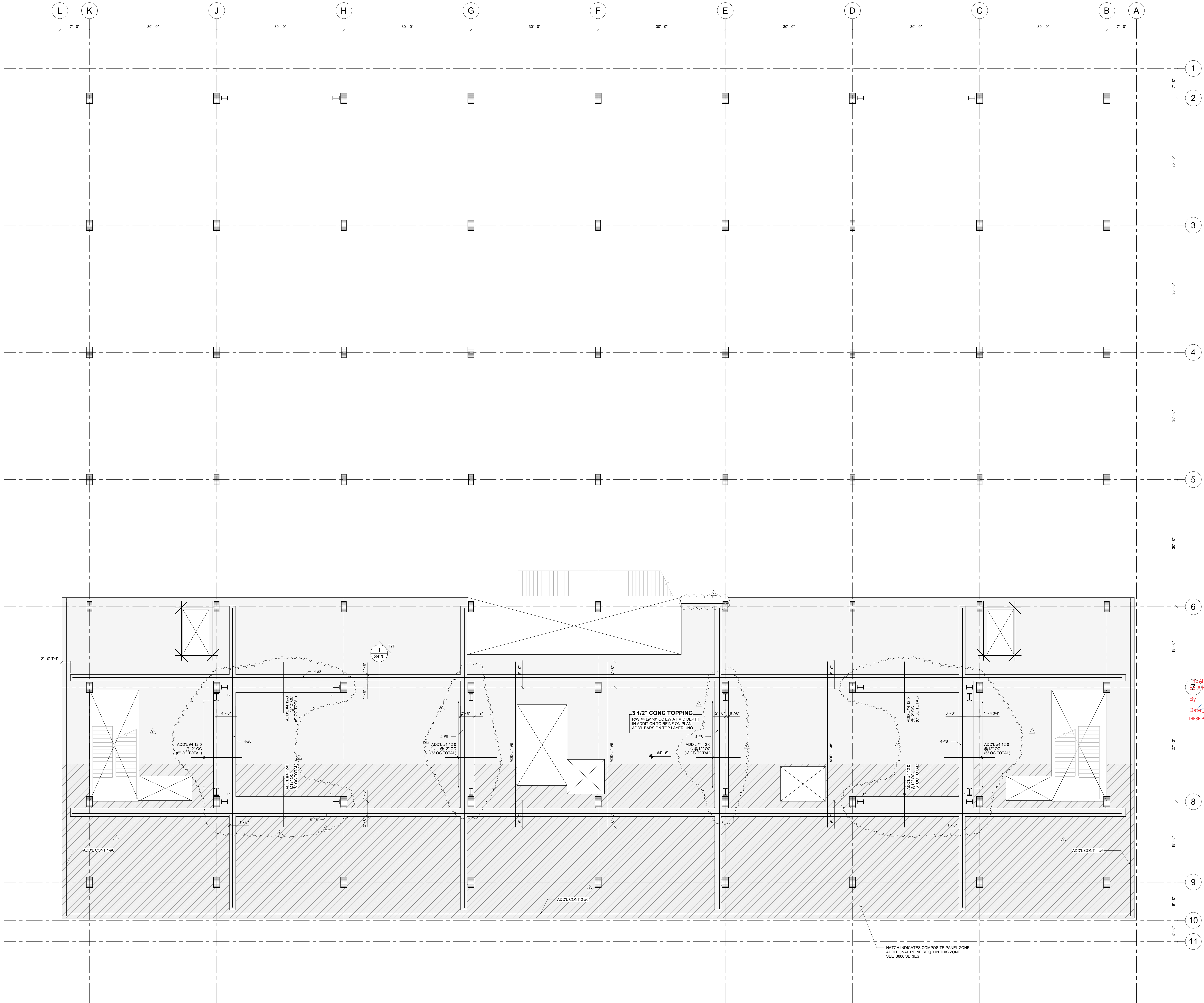
GOOGLE LLC  
1600 AMERICA AVE.  
SUNNYVALE CA

| REVISIONS |            |            |
|-----------|------------|------------|
| 1         | PLAN CHECK | 06/01/2020 |
| 2         | RESPONSE 1 | 09/03/2020 |
| 3         | RESPONSE 2 | 08/05/2020 |

|             |            |
|-------------|------------|
| CHECKED BY: | SK         |
| ISSUE DATE: | 9 MAR 2020 |
| PROJECT NO: | 18040      |

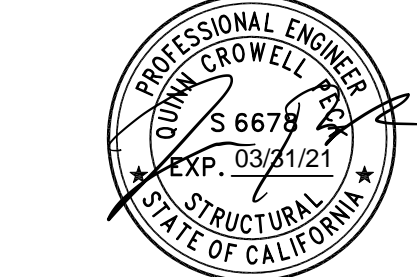
LEVEL 05 REINF  
PLAN  
**S115**

PERMIT SET



LEVEL 05 REINF PLAN  
1/8" = 1'-0"





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By YVONNE C. PHIROZE  
Date 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

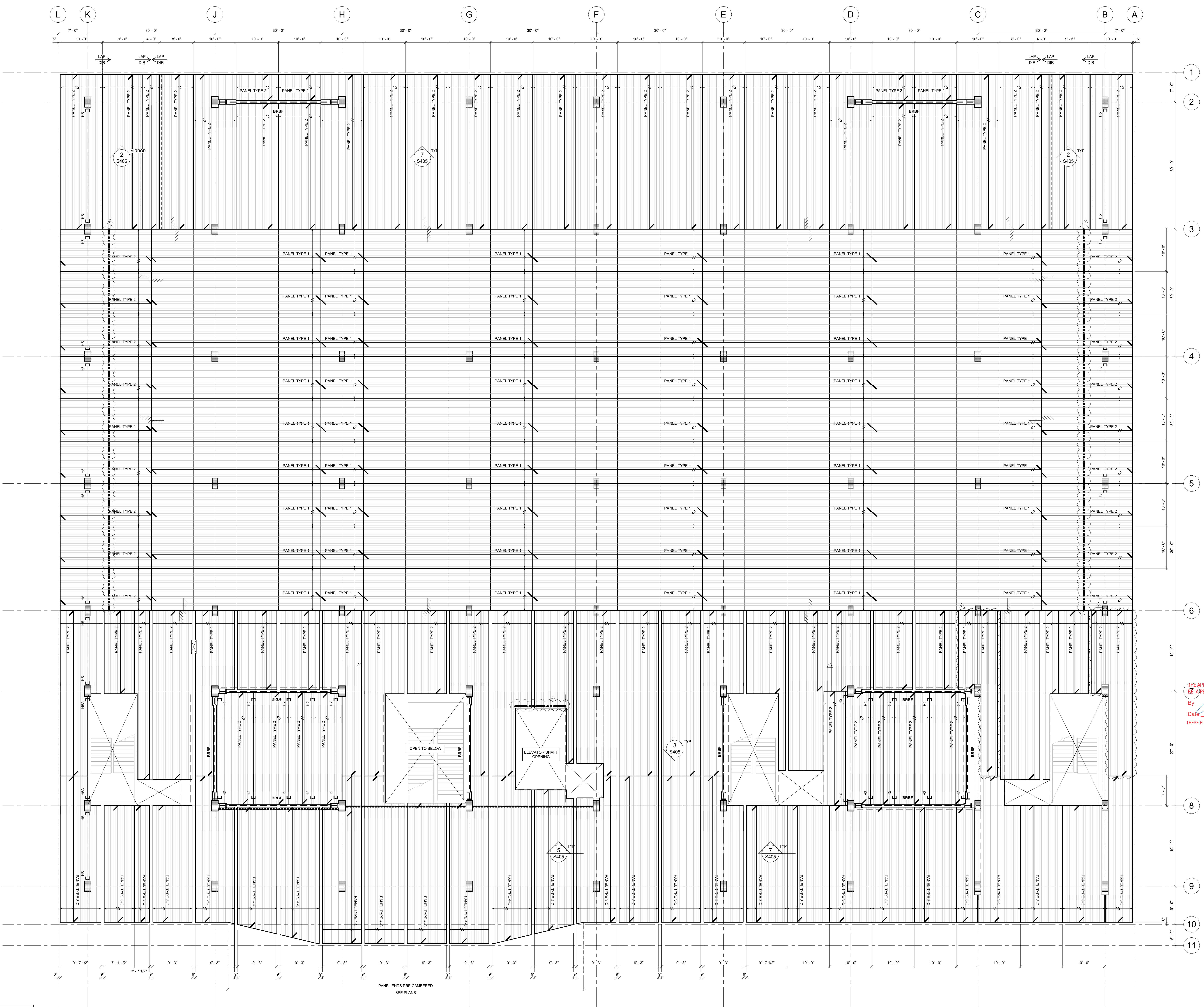
1265 Borregas  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1 PLAN CHECK RESPONSE 1 09/03/2020  
2 PLAN CHECK RESPONSE 2 08/05/2020

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

LEVEL 02 CLT  
PANEL LAYOUT  
PLAN  
**S122**

PERMIT SET

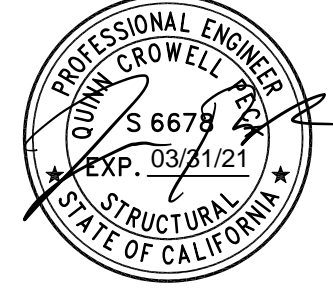


| CLT PANEL SCHEDULE |                             |               |  |
|--------------------|-----------------------------|---------------|--|
| PANEL TYPE MARK    | CLT PANEL ASSEMBLY          | TYPE          | REFERENCE                                |
| PANEL TYPE 1       | 3-PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 2       | 7-PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 3       | 3-PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 3-C     | 7-PLY 3/8" X 1/2" CLT PANEL | COMPOSITE     | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 4-C     | 7-PLY 3/8" X 1/2" CLT PANEL | COMPOSITE     | SEE S600 FOR PANEL COMPOSITION & DETAILS |

NOTES:  
----- REDUCE TYPICAL CLT TO GLULAM BEAM FIXING SPACING TO @8' OC. SEE S1450M.  
----- REDUCE TYPICAL CLT TO GLULAM BEAM FIXING SPACING TO @12' OC. SEE S1450.  
TEMPORARY SHORING IS REQUIRED AT SOME CLT PANELS AS NOTED IN THE GENERAL NOTES.  
"CROSS LAMINATED TIMBER (CLT)"

LEVEL 02 CLT PANEL LAYOUT  
1/8" = 1'-0"





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By: YVONNE C. PHIROZE W.  
Date: 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

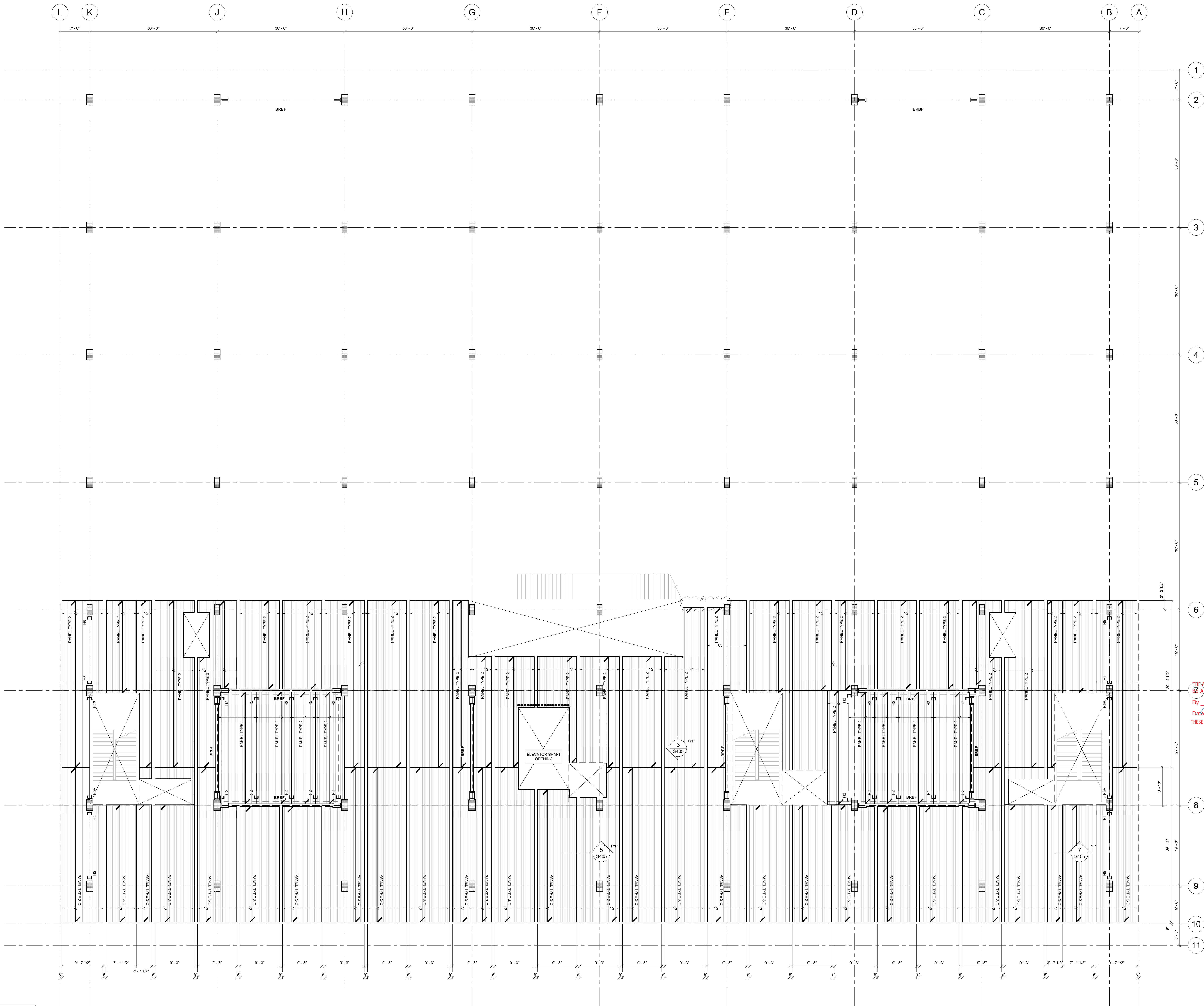
1265 Borregas  
GOODELL LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1 PLAN CHECK 09/03/2020  
RESPONSE 1  
ITEMS IN PROGRESS NOT  
/ TO BE RESOLVED ISSUED  
2 PLAN CHECK 08/05/2020  
RESPONSE 2

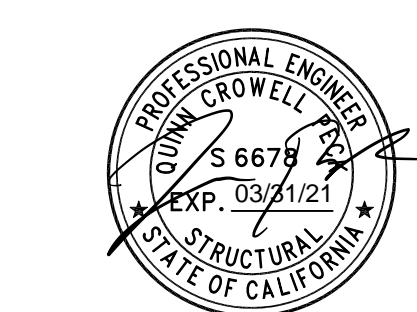
CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

LEVEL 03 CLT  
PANEL LAYOUT  
PLAN  
**S123**

PERMIT SET







CSG CONSULTANTS, INC.  
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BE A WARRANT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.  
By LOK C. PHIROZE W.  
YVONNE C.  
Date 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

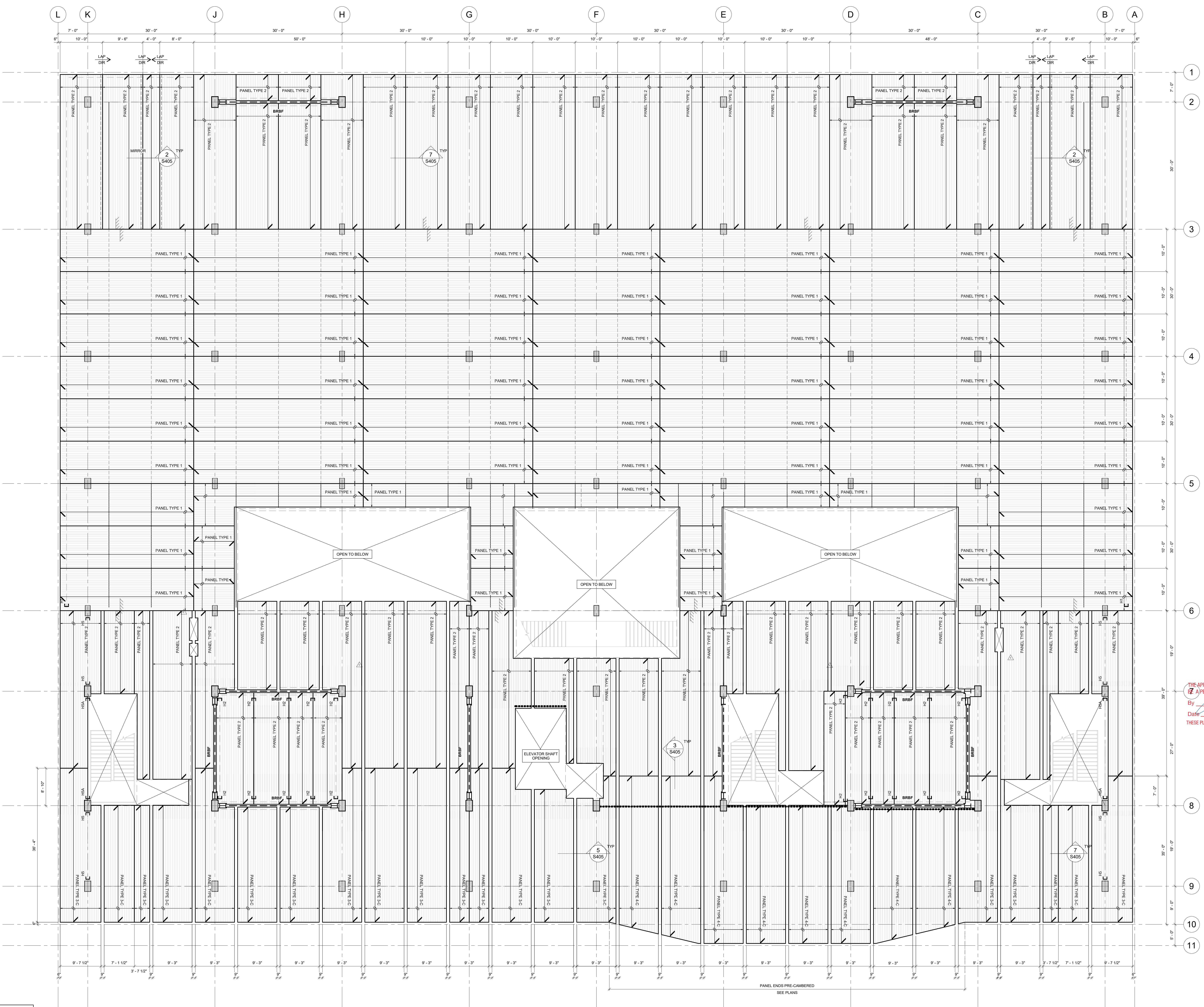
1265 Borregas  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1 PLAN CHECK RESPONSE 1 09/03/2020  
2 PLAN CHECK RESPONSE 2 08/05/2020

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

LEVEL 04 CLT  
PANEL LAYOUT  
PLAN  
**S124**

PERMIT SET

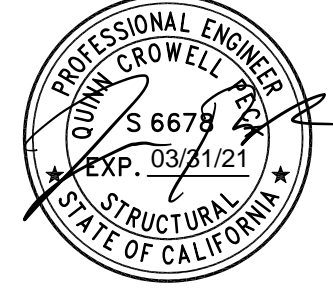


| CLT PANEL SCHEDULE |                             |               |  |
|--------------------|-----------------------------|---------------|--|
| PANEL TYPE MARK    | PLY AND THICKNESS           | TYPE          | REFERENCE                                |
| PANEL TYPE 1       | 3-PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 2       | 7-PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 3       | 3-PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 3-C     | 7-PLY 3/8" X 1/2" CLT PANEL | COMPOSITE     | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 4-C     | 7-PLY 3/8" X 1/2" CLT PANEL | COMPOSITE     | SEE S600 FOR PANEL COMPOSITION & DETAILS |

NOTES:  
- - - - - REDUCE TYPICAL CLT TO GLULAM BEAM FIXING SPACING TO @8' OC. (SEE S1-5500)  
- - - - - REDUCE TYPICAL CLT TO GLULAM BEAM FIXING SPACING TO @12' OC. (SEE S1-5500)  
- - - - - TEMPORARY BRIDGING IS REQUIRED AT SOME CLT PANELS AS NOTED IN THE GENERAL NOTES.  
"CROSS LAMINATED TIMBER (CLT)"

LEVEL 04 CLT PANEL LAYOUT  
10" = 1'-0"





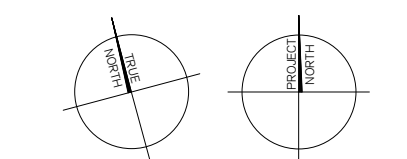
CSG CONSULTANTS, INC.  
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By: LOK C. PHIROZE W.,  
YVONNE C.  
Date: 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

GOOGLE LLC  
1600 AMEN AVENUE  
SUNNYVALE CA

| REVISIONS               |            |  |
|-------------------------|------------|--|
| ISSUED FOR PERMIT       | 06/01/2020 |  |
| 1 PLAN CHECK RESPONSE 1 | 09/03/2020 |  |
| ITEMS IN PROGRESS       | NOT        |  |
| TO BE RESOLVED          | ISSUED     |  |
| 2 PLAN CHECK RESPONSE 2 | 08/05/2020 |  |

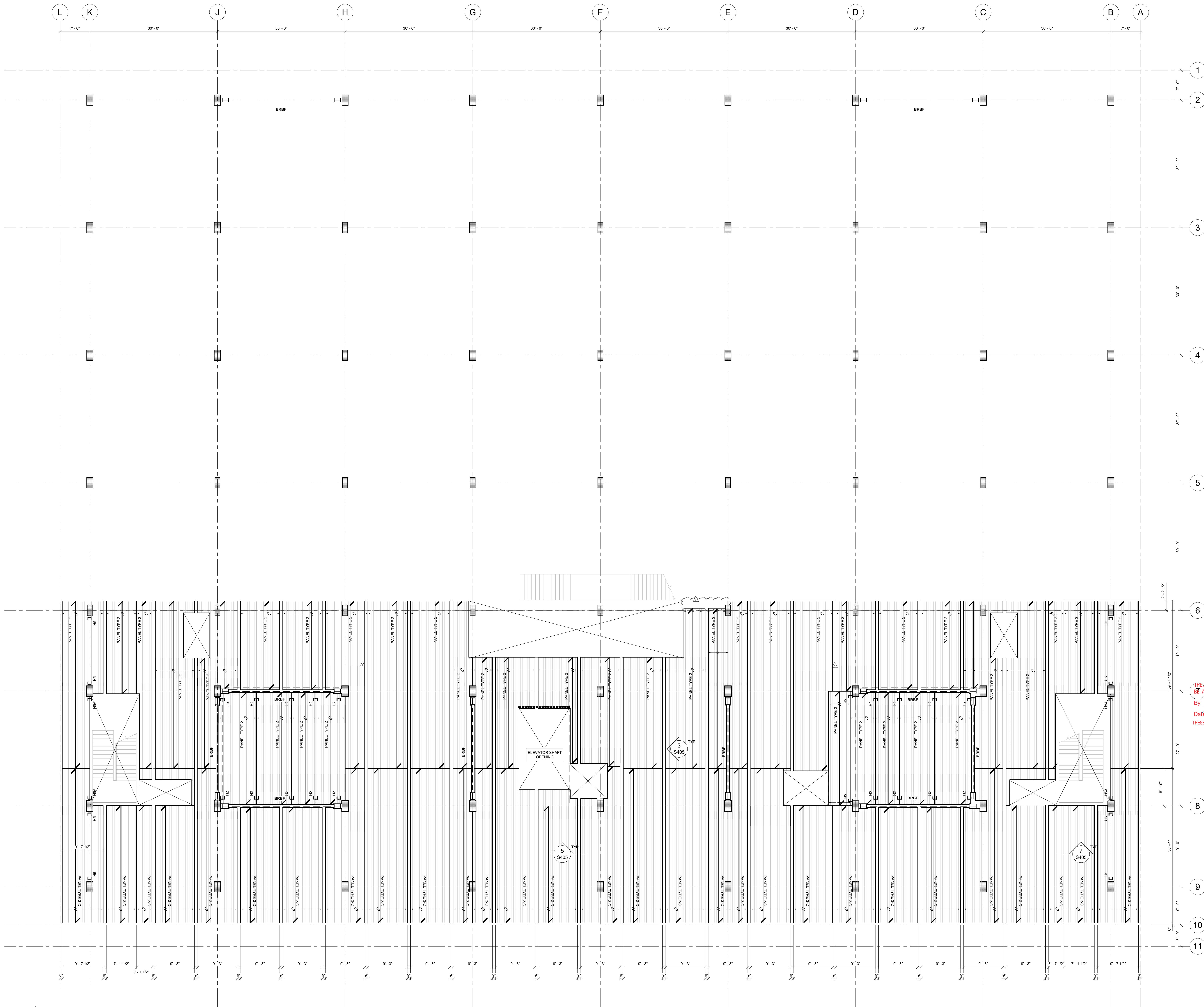


CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

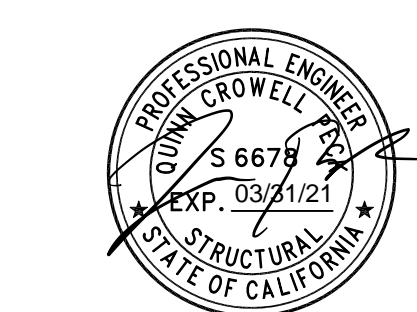
LEVEL 05 CLT  
PANEL LAYOUT  
PLAN

S125

PERMIT SET







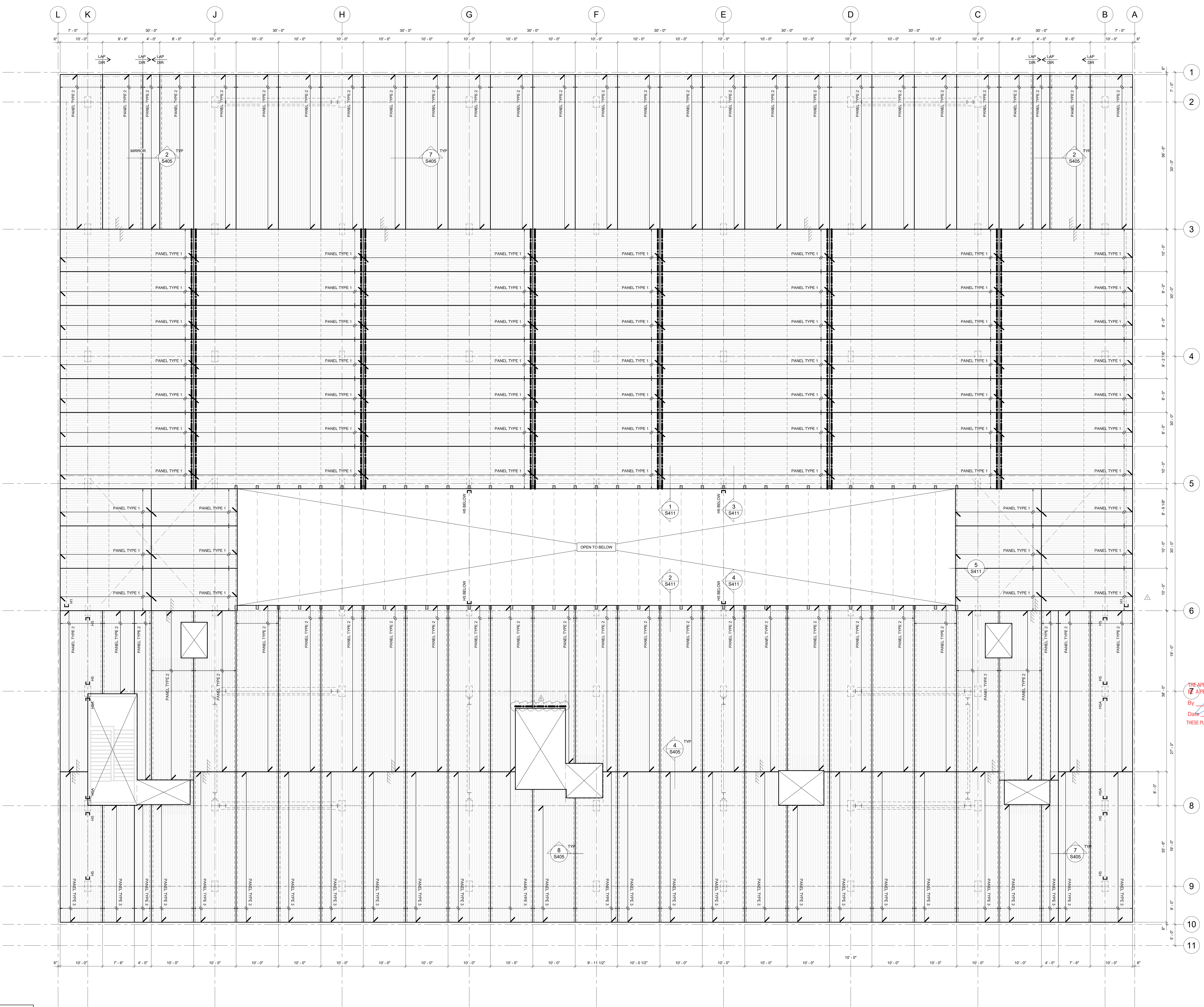
CSG CONSULTANTS, INC.  
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BE A WARRANT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.  
By LOK C. PHIROZE W.  
YVONNE C.  
Date 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

| REVISIONS                |            |  |
|--------------------------|------------|--|
| ISSUED FOR PERMIT        | 06/01/2020 |  |
| 1. PLAN CHECK RESPONSE 1 | 09/03/2020 |  |
| 2. PLAN CHECK RESPONSE 2 | 08/05/2020 |  |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

ROOF CLT PANEL  
LAYOUT PLAN  
**S126**  
PERMIT SET

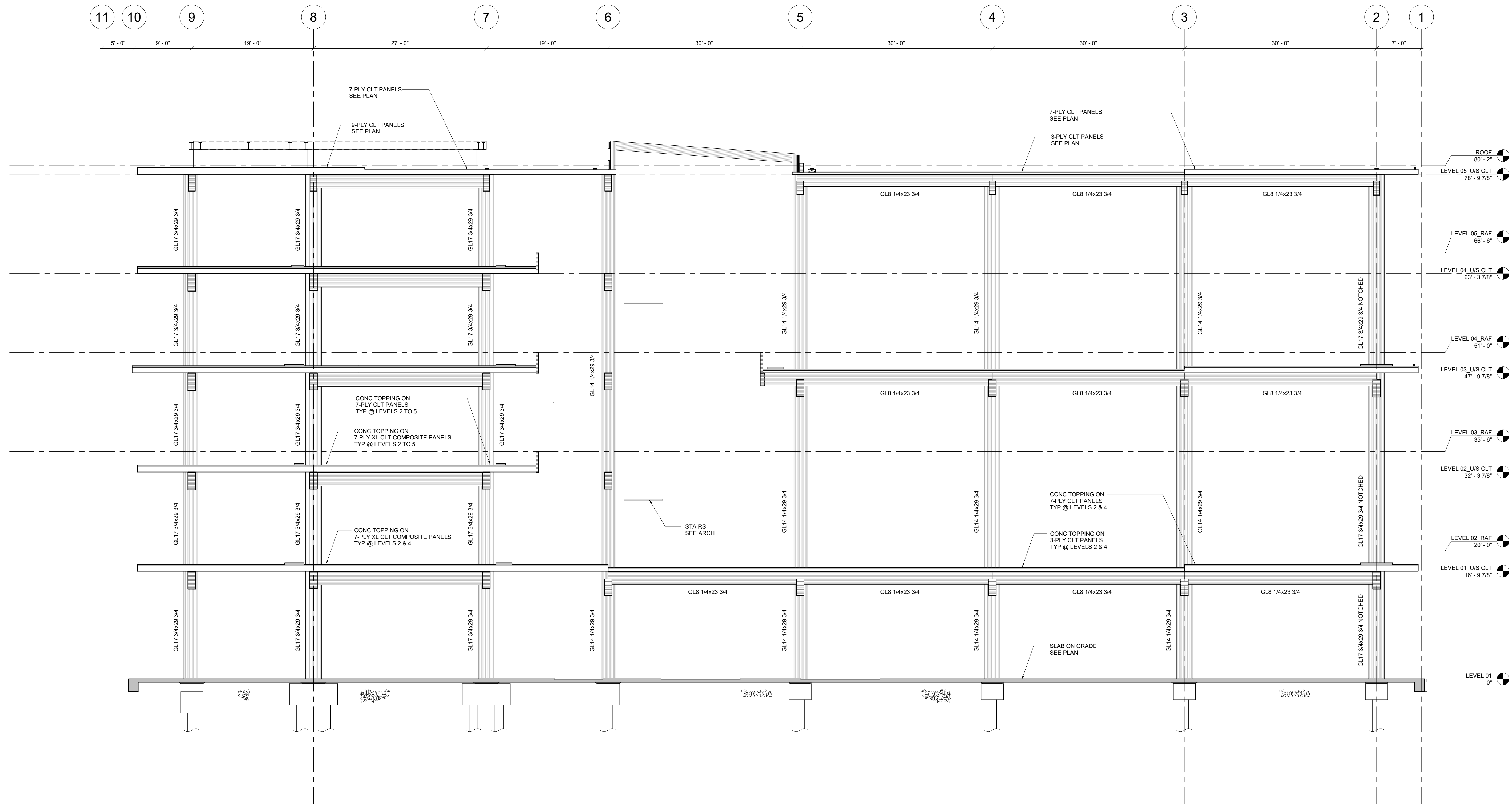
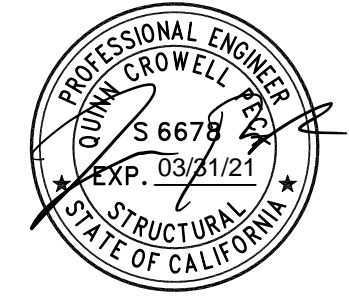


| CLT PANEL SCHEDULE |                             |               |  |
|--------------------|-----------------------------|---------------|--|
| PANEL TYPE MARK    | PLY AND THICKNESS           | TYPE          | REFERENCE                                |
| PANEL TYPE 1       | 3 PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 2       | 7 PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 3       | 3 PLY 1 1/8" CLT PANEL      | NON-COMPOSITE | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 3-C     | 7 PLY 3/8" X 1/2" CLT PANEL | COMPOSITE     | SEE S600 FOR PANEL COMPOSITION & DETAILS |
| PANEL TYPE 4-C     | 7 PLY 3/8" X 1/2" CLT PANEL | COMPOSITE     | SEE S600 FOR PANEL COMPOSITION & DETAILS |

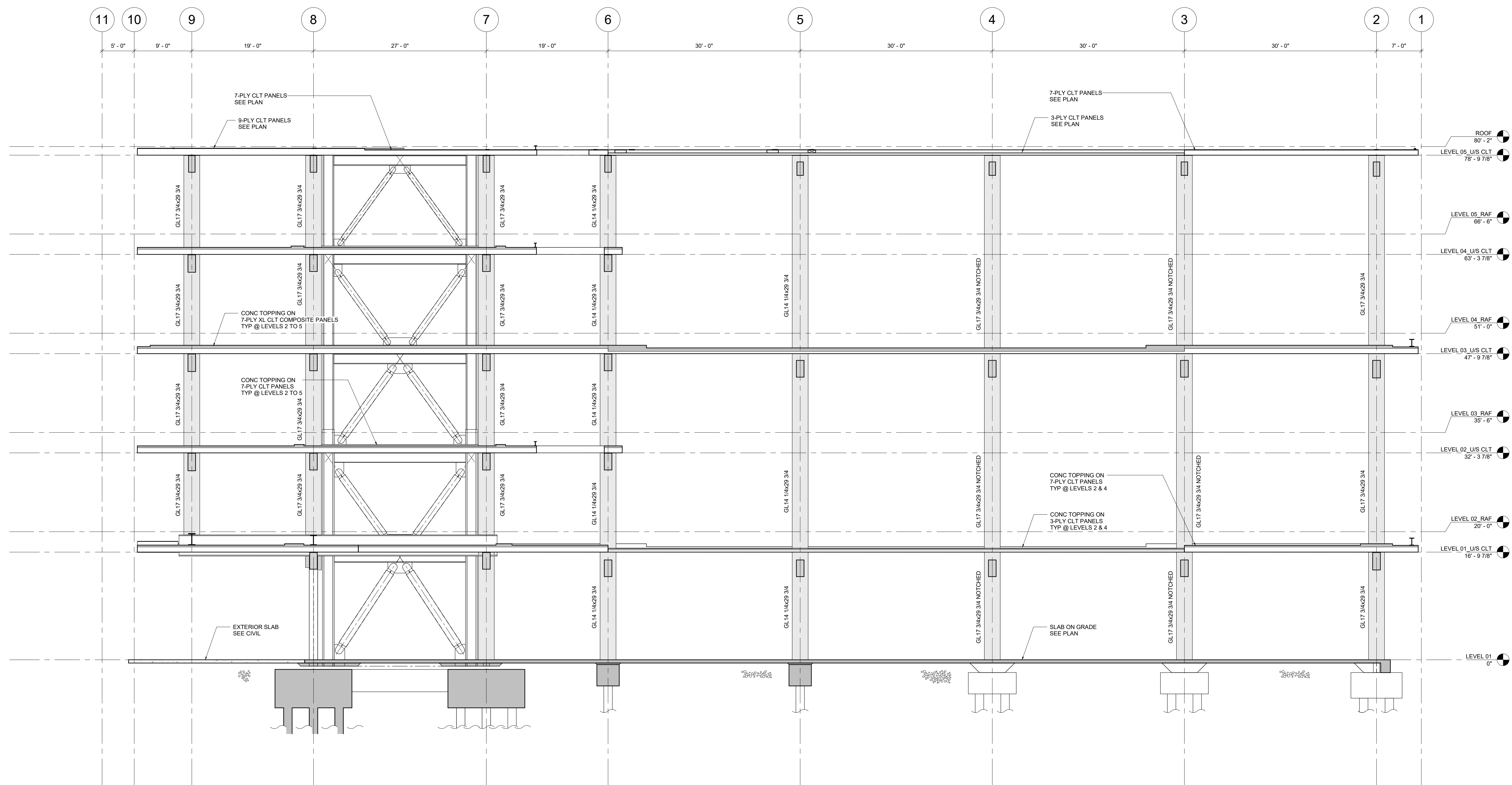
NOTES:  
REDUCE TYPICAL CLT TO GLULAM BEAM FIXING SPACING TO @4" OC.  
SEE S1 S605  
TEMPORARY SHORING IS REQUIRED AT SOME CLT PANELS AS NOTED IN THE GENERAL NOTES  
"CROSS-LAMINATED TIMBER (CLT)"

ROOF PLAN  
1/8" = 1'-0"





2 FULL BUILDING SECTION  
S101  
1/8" = 1'-0"



1 FULL BUILDING SECTION  
S101  
1/8" = 1'-0"

CSG CONSULTANTS, INC.  
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By: LOK C. PHIROZE W.,  
YVONNE C.

Date: 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
1. PLAN CHECK  
ISSUED FOR PERMIT  
RESPONSE 1

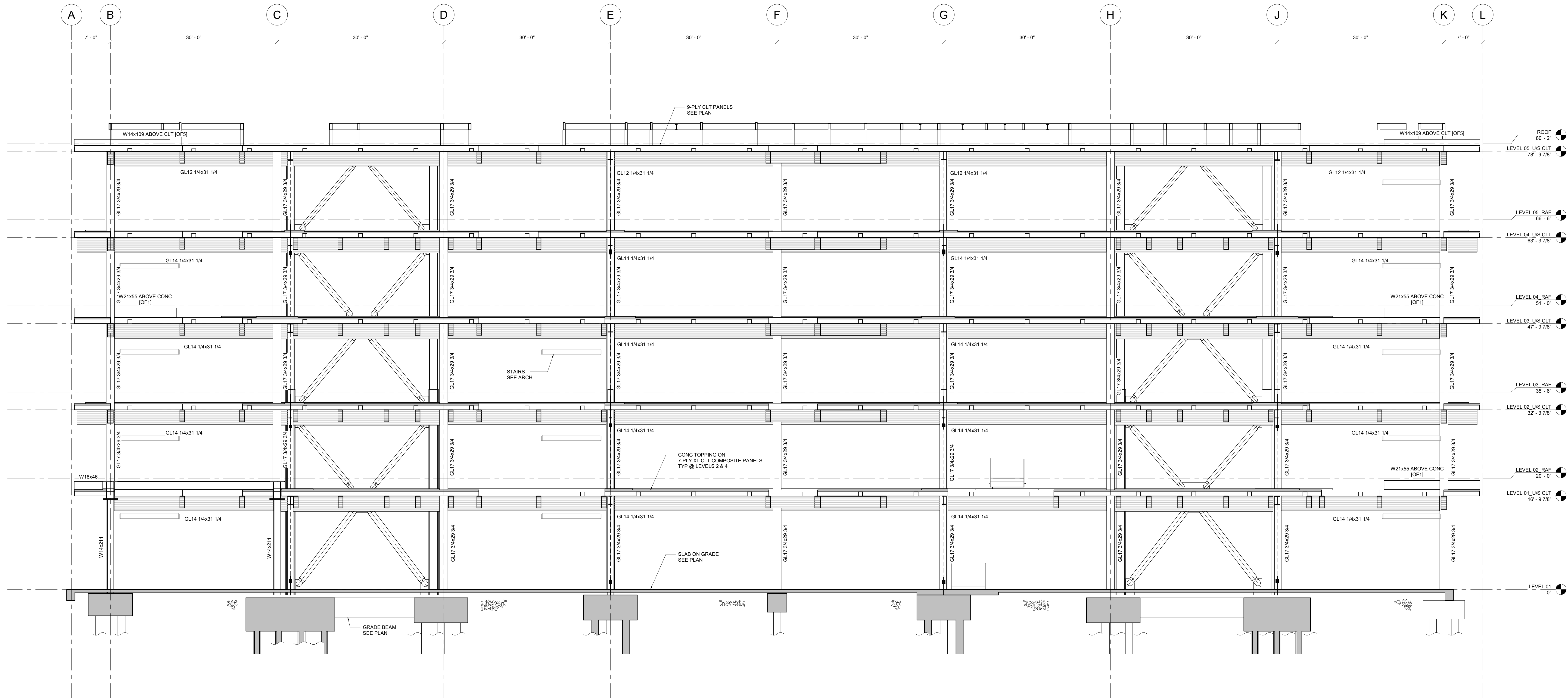
06/01/2020  
09/03/2020

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

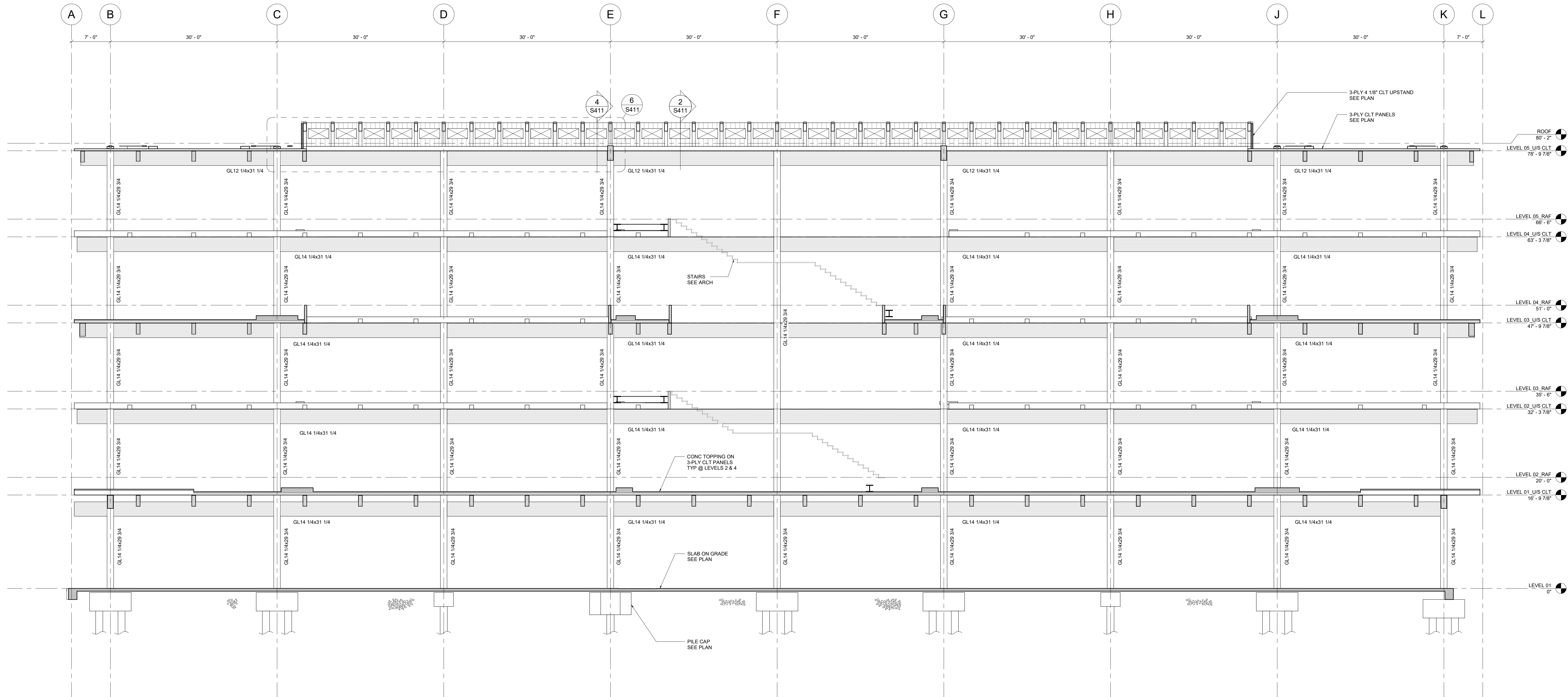
FULL BUILDING  
SECTIONS  
S200

PERMIT SET

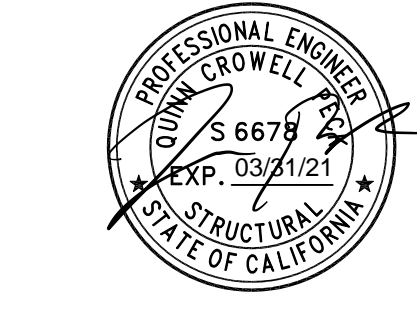




2 FULL BUILDING SECTION  
1/8" = 1'-0"



1 FULL BUILDING SECTION  
1/8" = 1'-0"



CSG CONSULTANTS, INC.  
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By YVONNE C. PHIROZE  
Date: 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

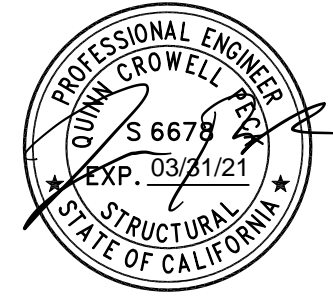
1265 Borregas  
GOOGLE LLC  
1265 BORREGAS AVE  
SUNNYVALE CA

REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1 PLAN CHECK 09/03/2020  
RESPONSE 1

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

FULL BUILDING  
SECTIONS  
**S201**  
PERMIT SET





CSG CONSULTANTS, INC.  
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**APPROVED**

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WARRANT OR PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.  
By LOK C. PHIROZE W.  
YVONNE C.  
7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

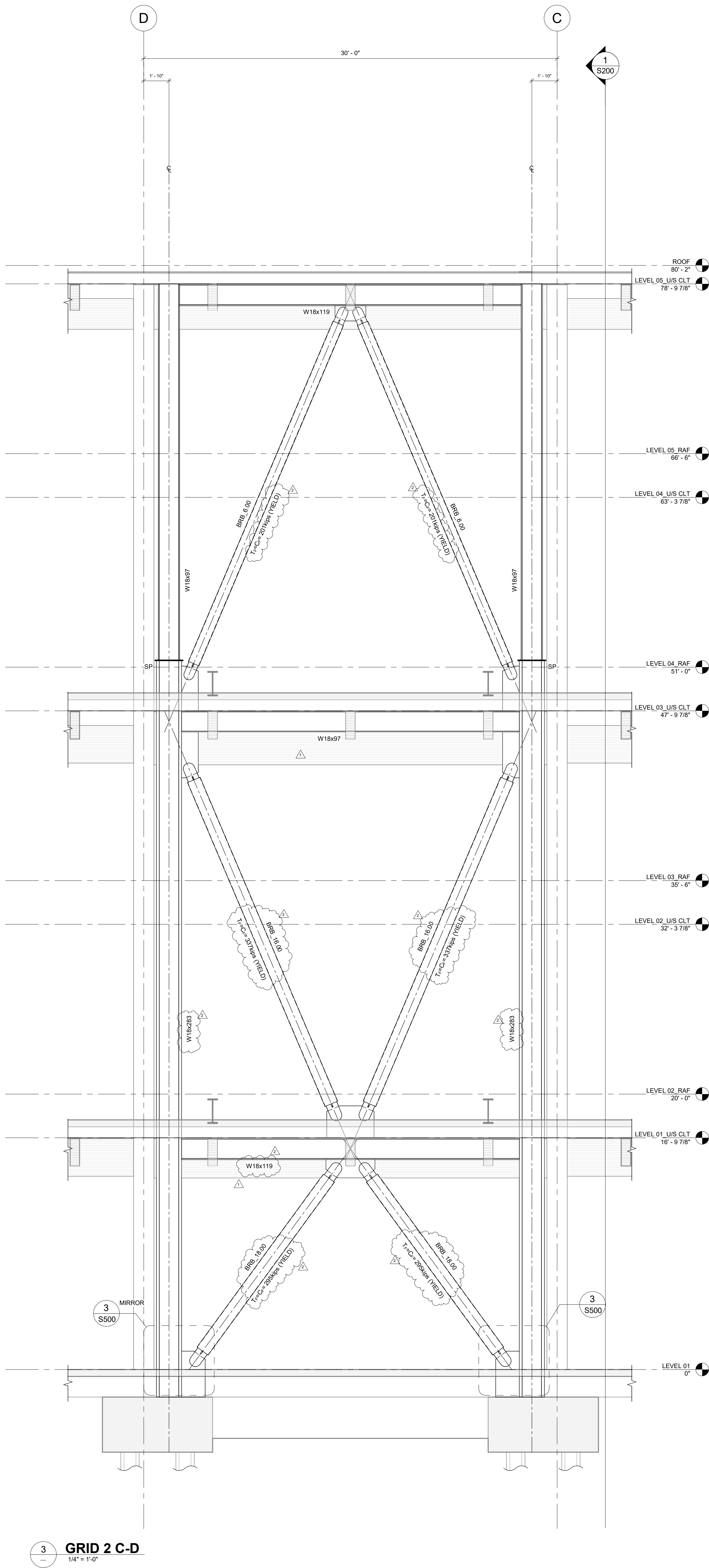
GOOGLE LLC  
300 BAYVIEW AVENUE  
SUNNYVALE CA

| REVISIONS |                       |            |
|-----------|-----------------------|------------|
| 1         | ISSUED FOR PERMIT     | 06/01/2020 |
| 1         | PLAN CHECK RESPONSE 1 | 09/03/2020 |
| 2         | PLAN CHECK RESPONSE 2 | 08/05/2020 |

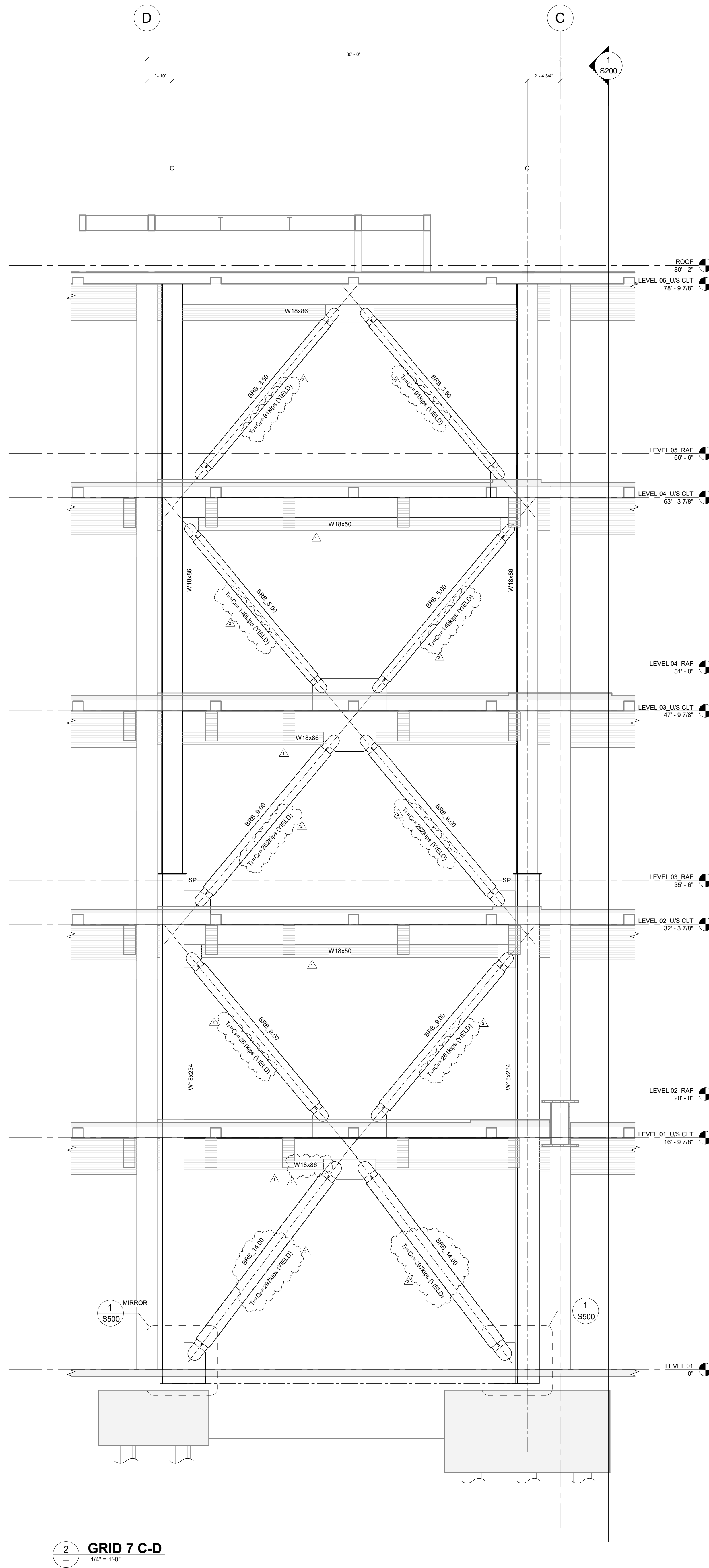
CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

BRACE FRAME  
ELEVATIONS  
**S210**

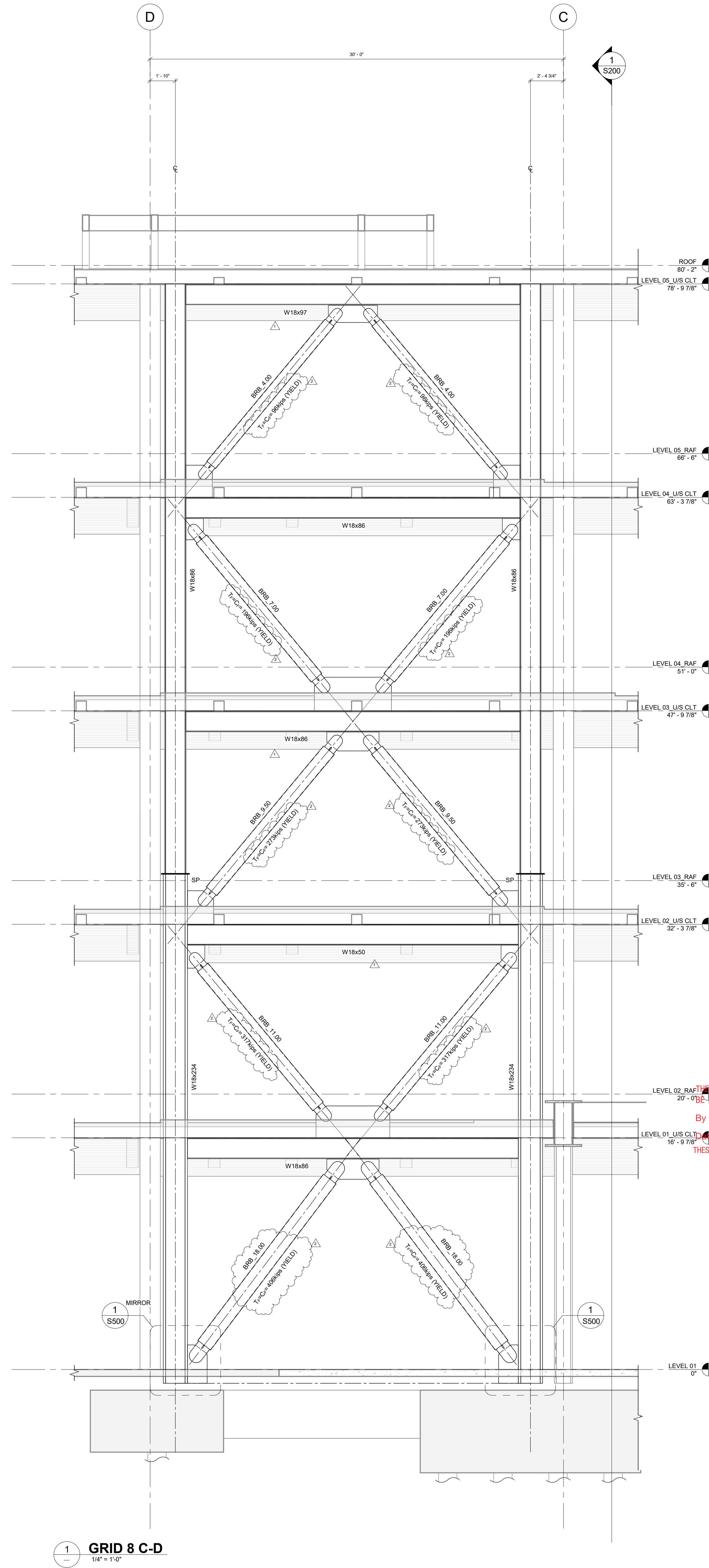
PERMIT SET



3 GRID 2 C-D  
1/4" = 1'-0"



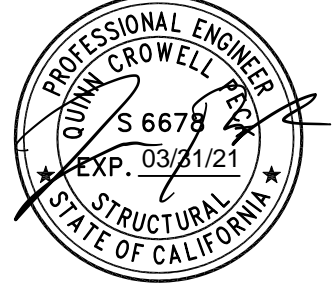
2 GRID 7 C-D  
1/4" = 1'-0"



1 GRID 8 C-D  
1/4" = 1'-0"

- NOTES:**
- ALL ELEMENTS SHOWN ARE PART OF THE SFRS AND SHALL COMPLY WITH THE GENERAL NOTES AND REFERENCED STANDARDS.
  - REFER TO S510 SERIES FOR TYP BRBF BRACE DETAILS UNO.





CSG CONSULTANTS, INC.  
THESE PLANS AND DETAILS ARE  
**APPROVED**

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO  
20' - 0" PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.  
By: YVONNE C. PHIROZE  
7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

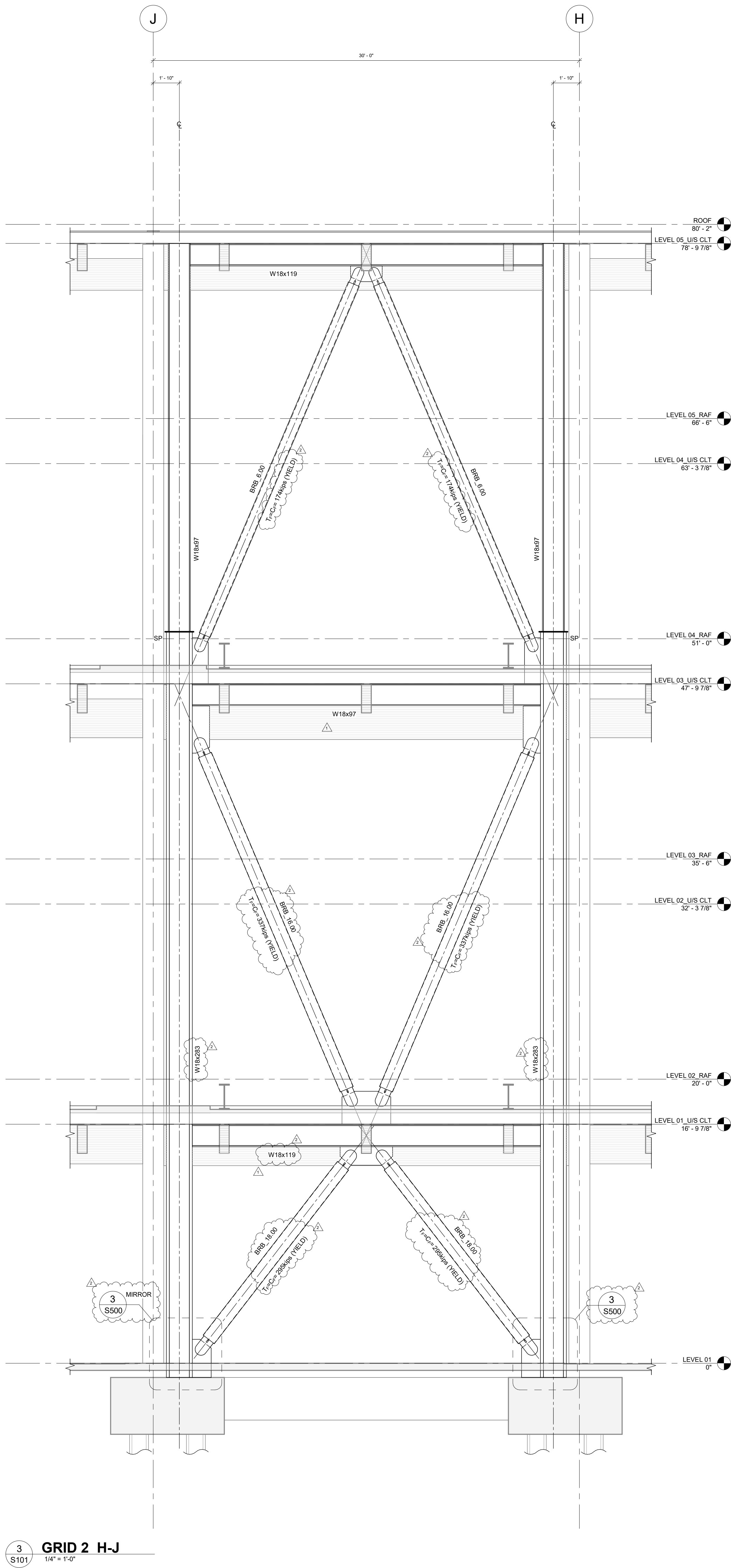
**1265 Borregas**  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
1. ISSUED FOR PERMIT 06/01/2020  
1. PLAN CHECK RESPONSE 1 09/03/2020  
2. PLAN CHECK RESPONSE 2 08/05/2020

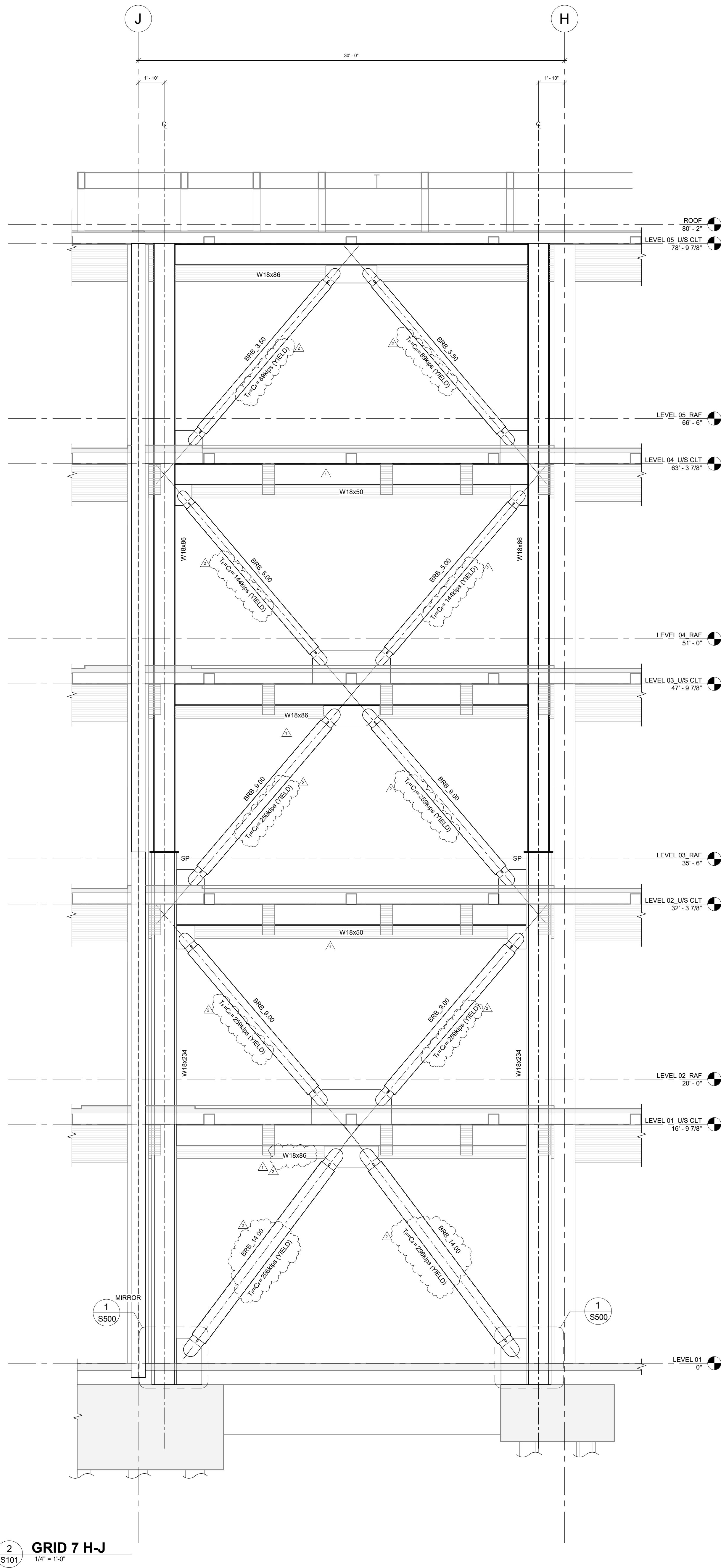
CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

BRACE FRAME  
ELEVATIONS  
**S211**

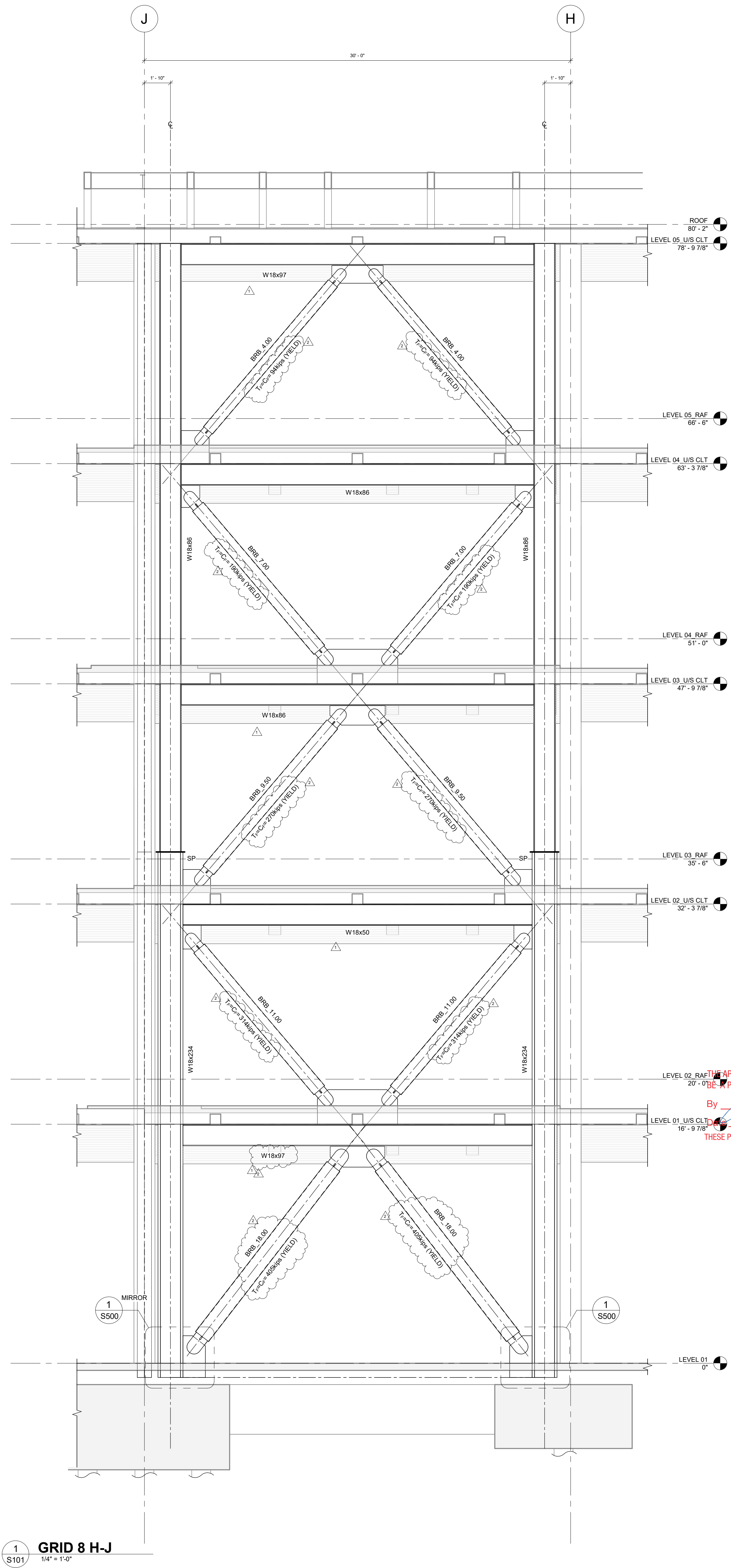
PERMIT SET



**GRID 2 H-J**  
14' x 1'-0"



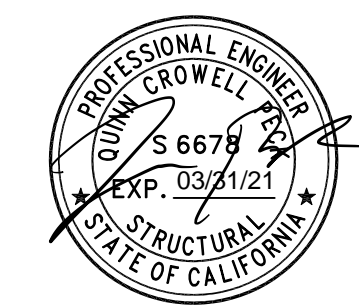
**GRID 7 H-J**  
14' x 1'-0"



**GRID 8 H-J**  
14' x 1'-0"

**NOTES:**  
1. ALL ELEMENTS SHOWN ARE PART OF THE SFRS AND SHALL COMPLY WITH THE GENERAL NOTES AND REFERENCED STANDARDS.  
2. REFER TO S510 SERIES FOR TYP BRBF BRACE DETAILS UNO.





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By LOK C. PHIROZE W.,  
YVONNE C.

7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTION

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1265 Borregas

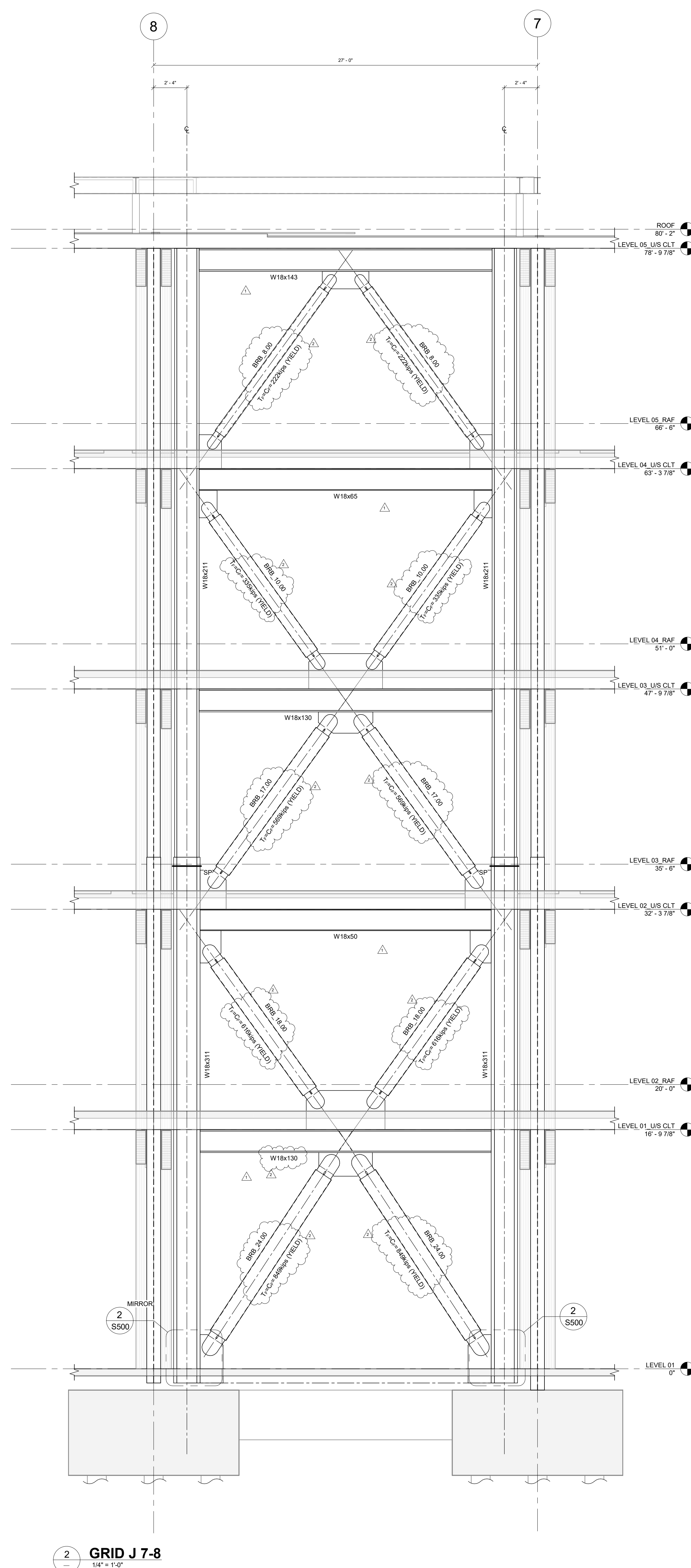
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|-------------------------|------------|
| ISSUED FOR PERMIT       | 06/01/2020 |
| 1 PLAN CHECK RESPONSE 1 | 09/03/2020 |
| 2 PLAN CHECK RESPONSE 2 | 08/05/2020 |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

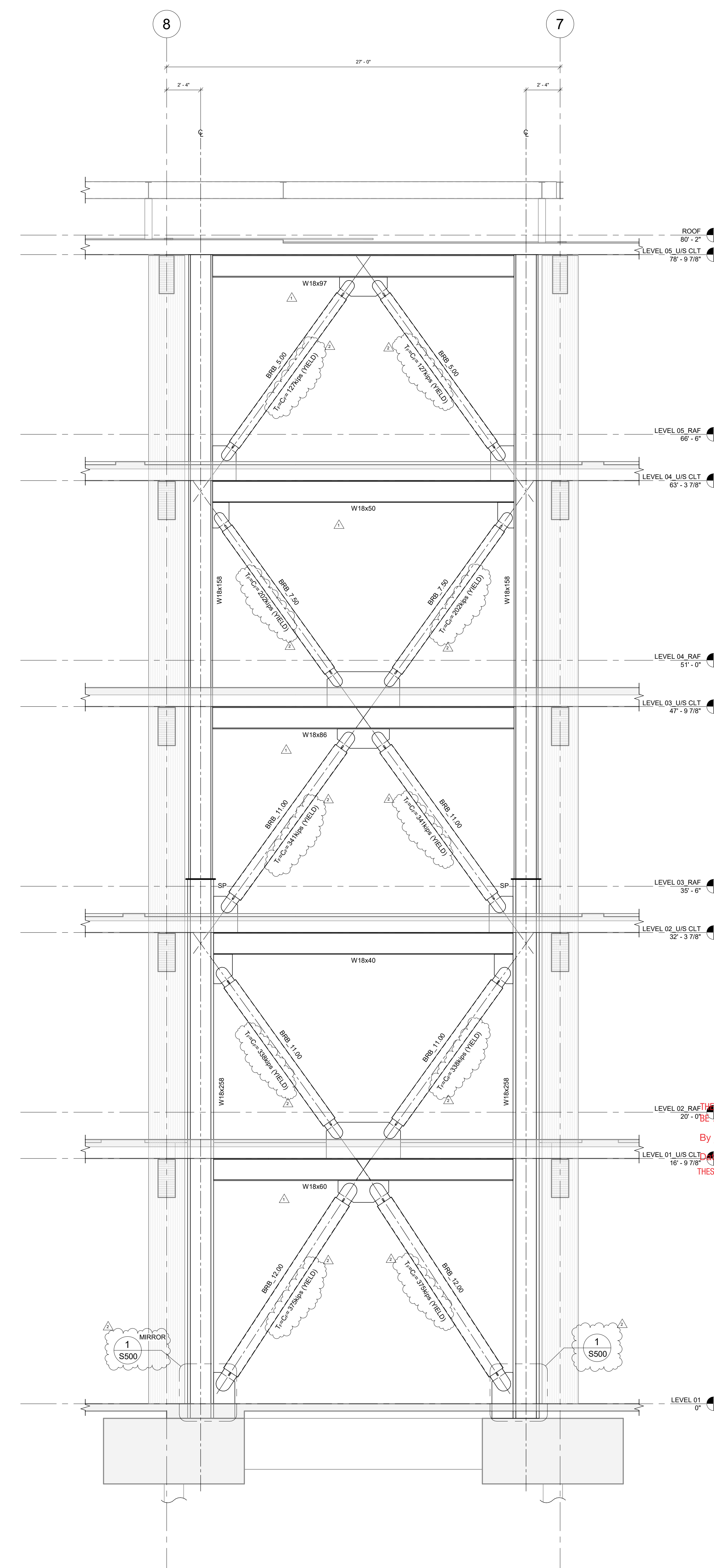
## BRACE FRAME ELEVATIONS

# S212

PERMIT SET



2 GRID J 7-8  
1/4" = 1'-0"

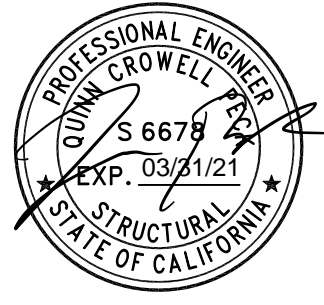


1 GRID G 7-8  
1/4" = 1'-0"

NOTES:

- NOTES:**
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  2. REFER TO S510 SERIES FOR TYP BRBF BRACE DETAILS UNO.





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By LOK C. PHIROZE W.  
YVONNE C.

7/28/2020

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1265 Borregas

GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

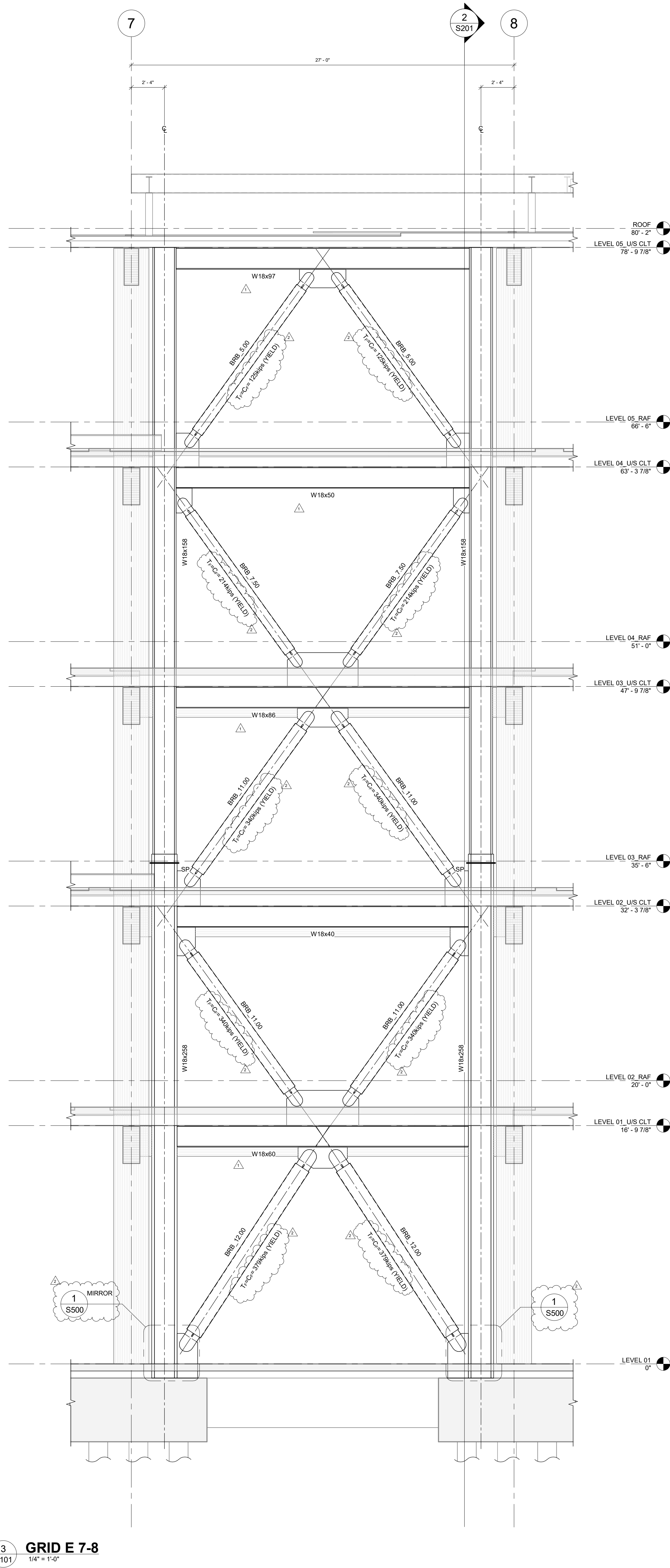
| REVISIONS |            |            |
|-----------|------------|------------|
| 1         | PLAN CHECK | 06/01/2020 |
| 2         | RESPONSE 1 | 09/03/2020 |
| 3         | RESPONSE 2 | 08/05/2020 |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

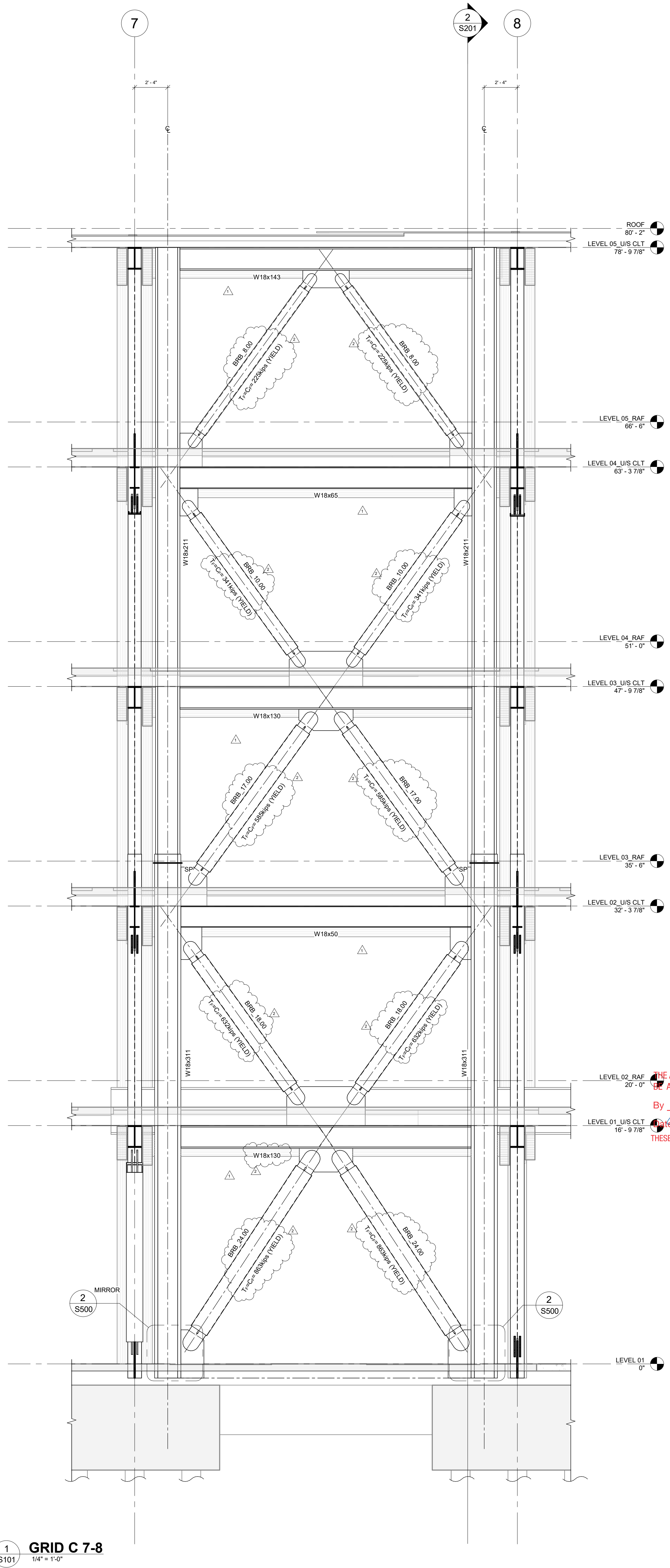
BRACE FRAME  
ELEVATIONS

**S213**

PERMIT SET



**GRID E 7-8**  
14' - 11 1/2"

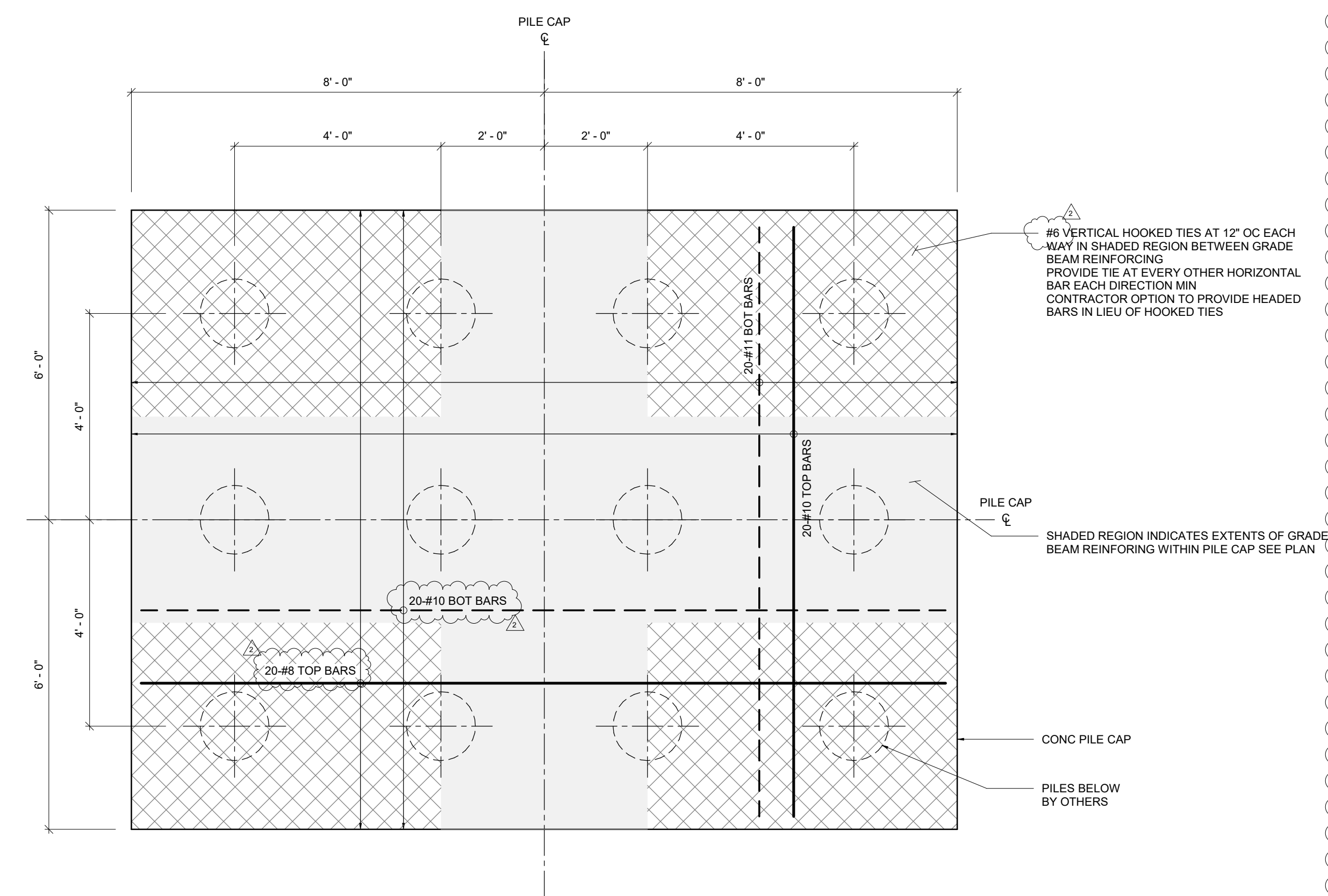
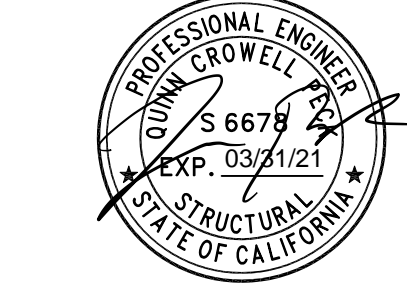


**GRID C 7-8**  
14' - 11 1/2"

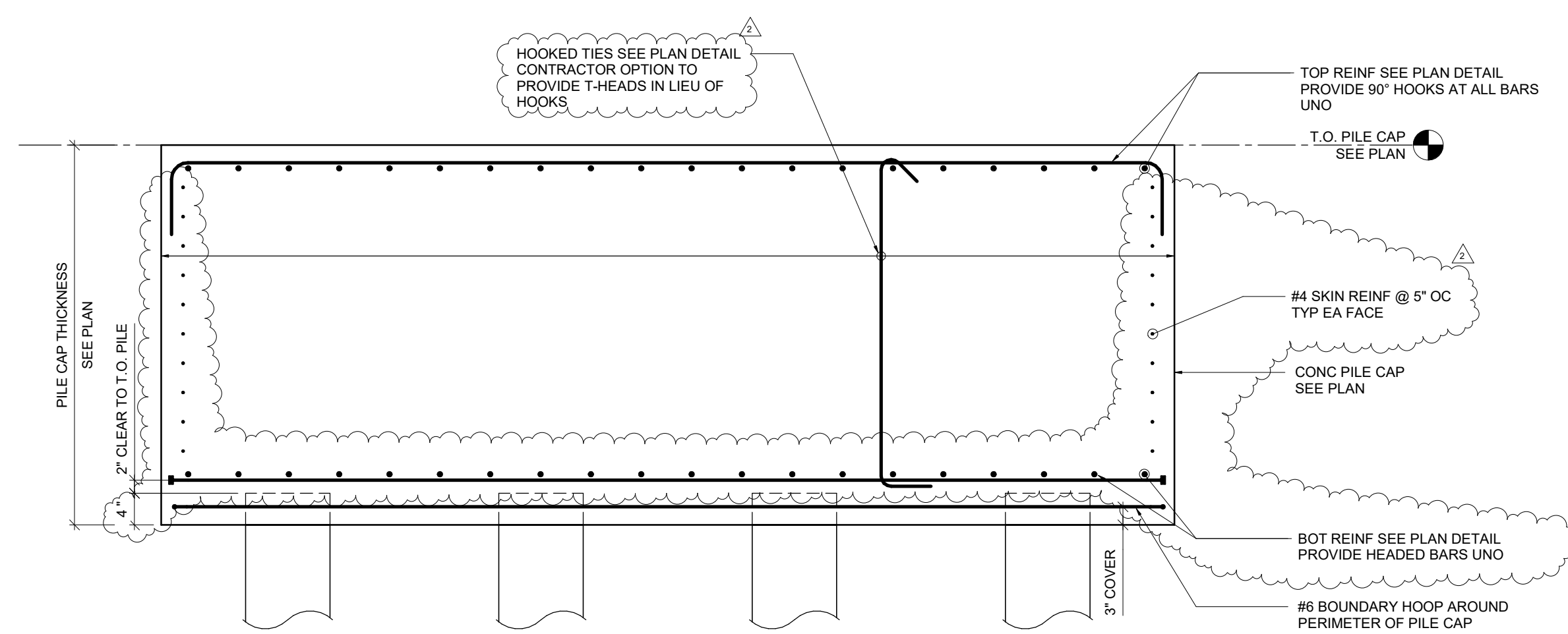
**NOTES:**

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- REFER TO S510 SERIES FOR TYP BRBF BRACE DETAILS UNO.



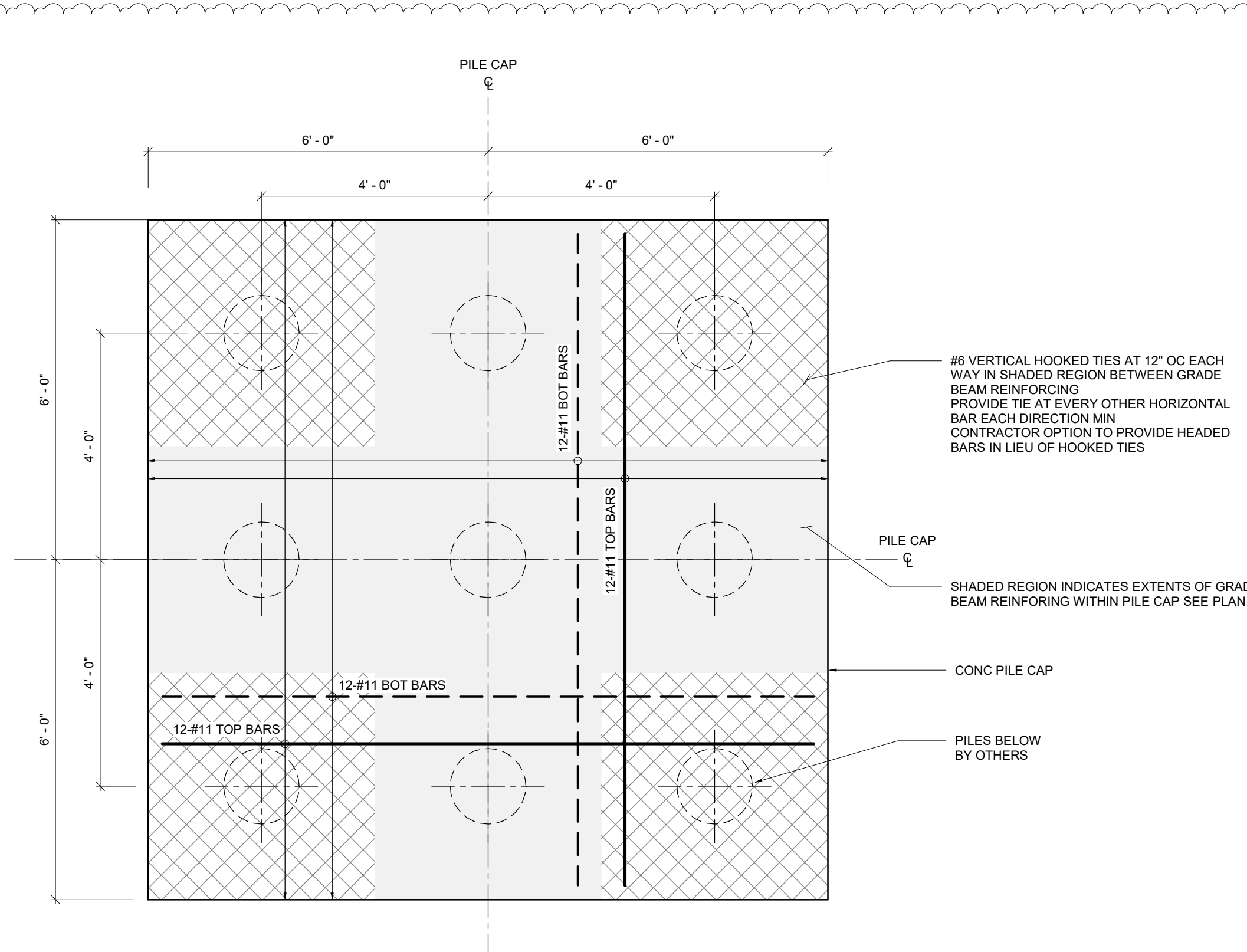


PLAN

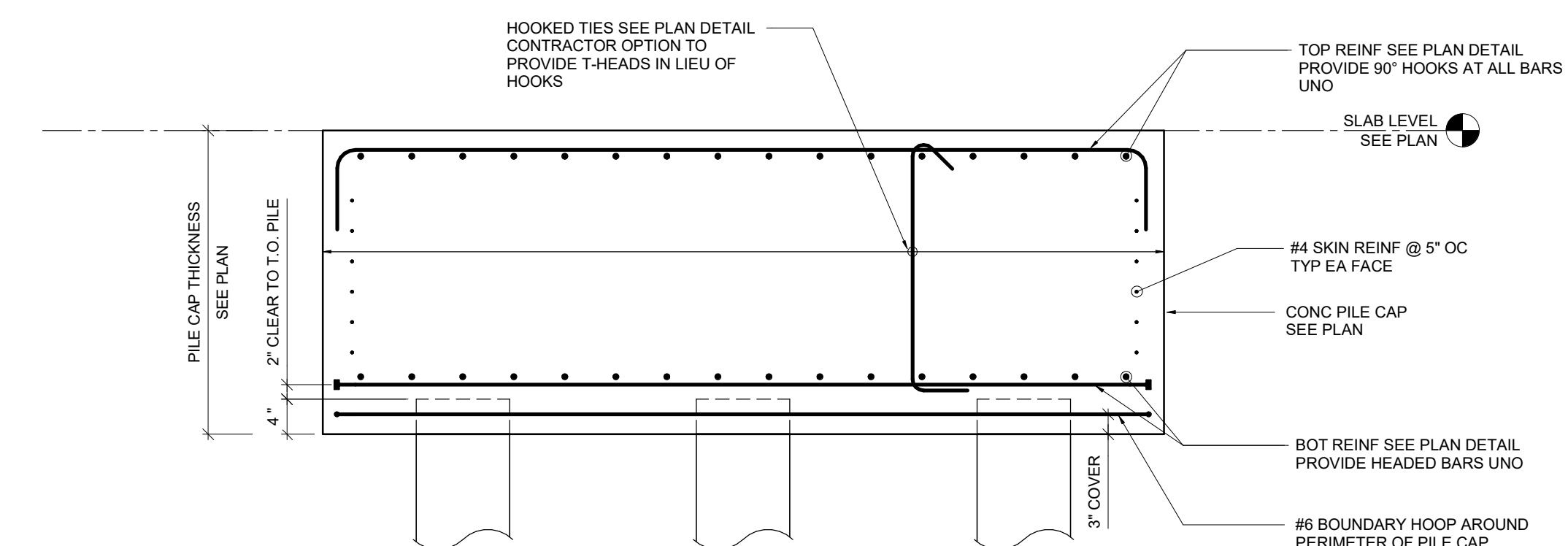


ELEVATION

12 PC12 DETAIL  
1/2" x 1'-0"

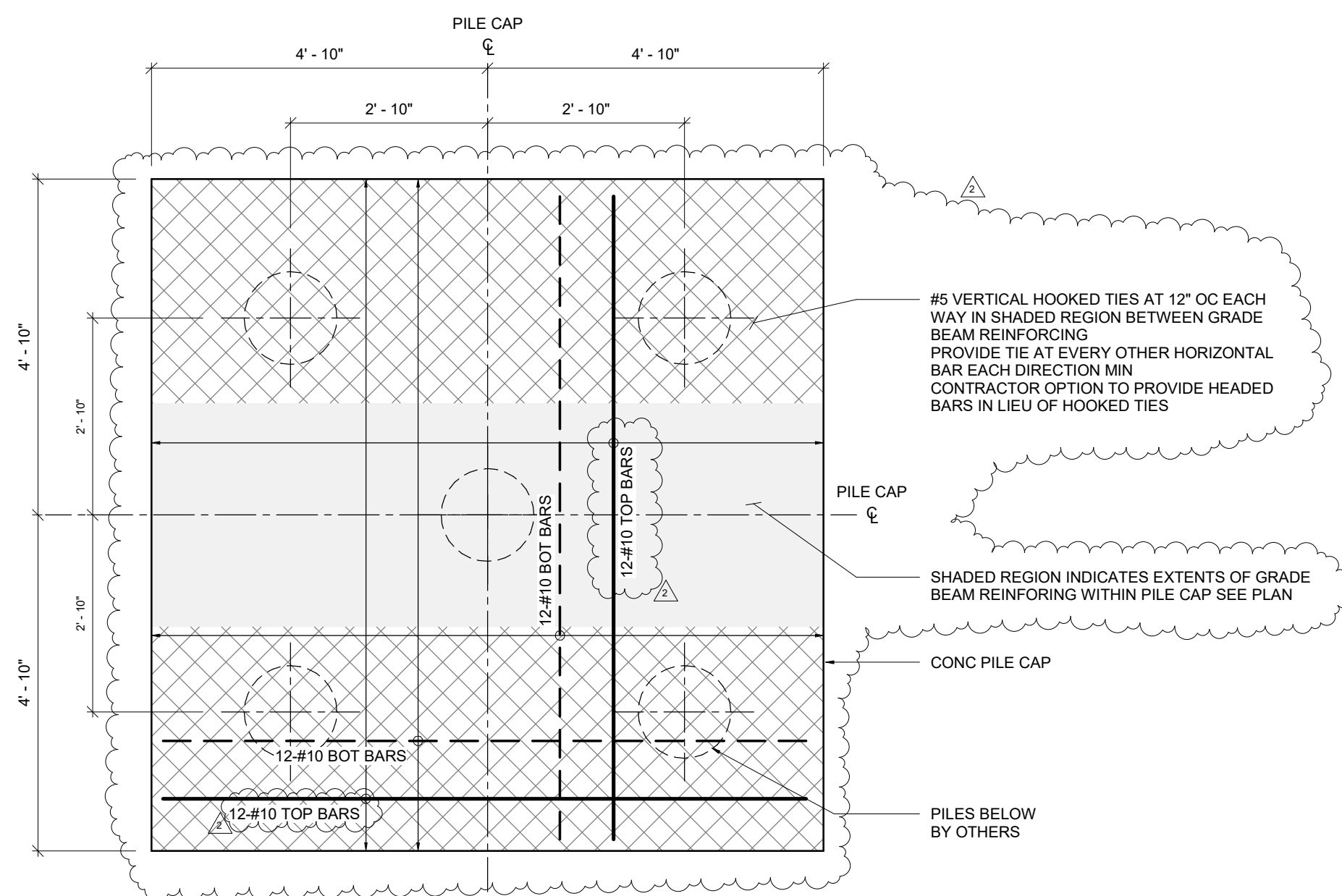


PLAN

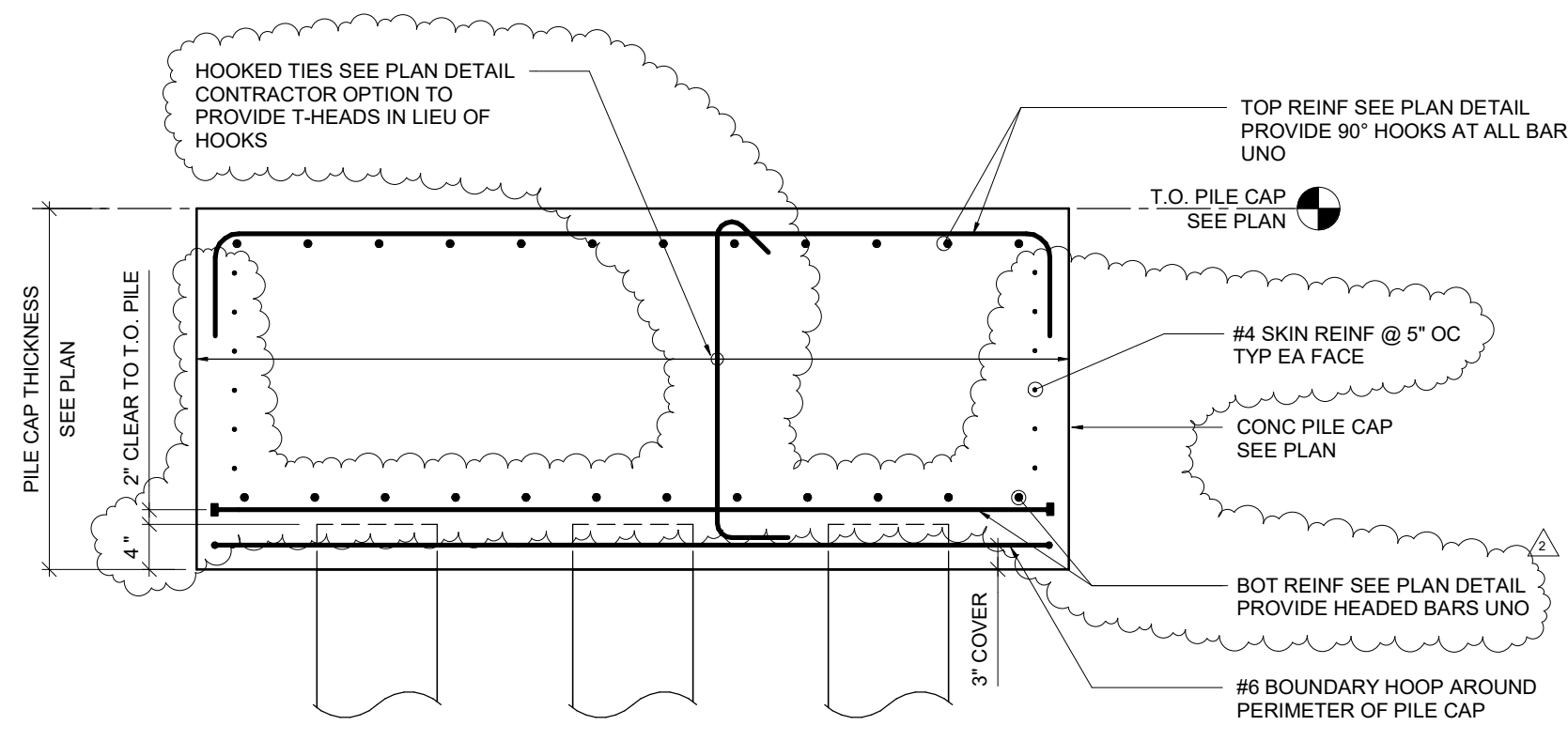


ELEVATION

6 PC9 DETAIL  
1/2" x 1'-0"

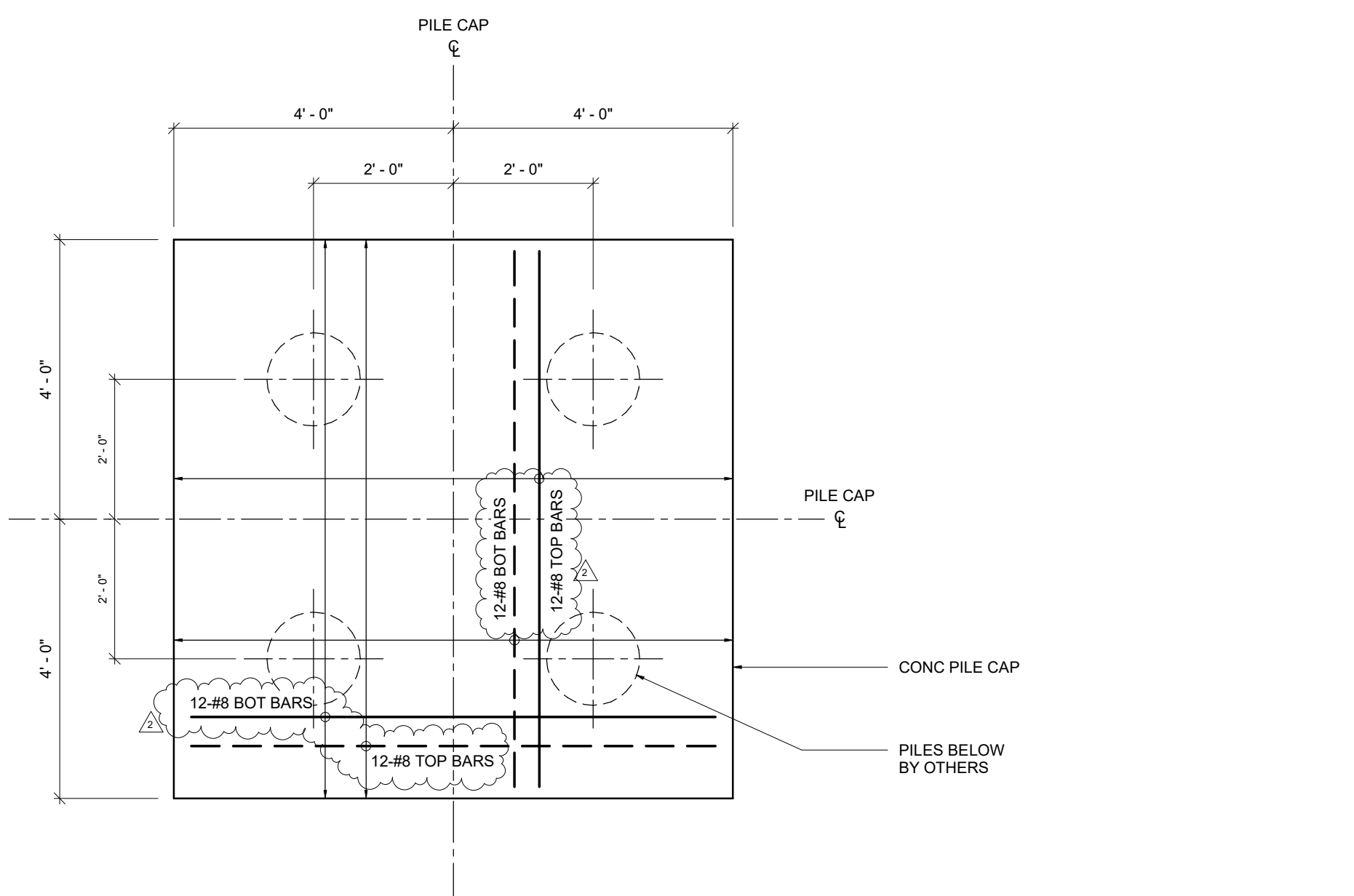


PLAN

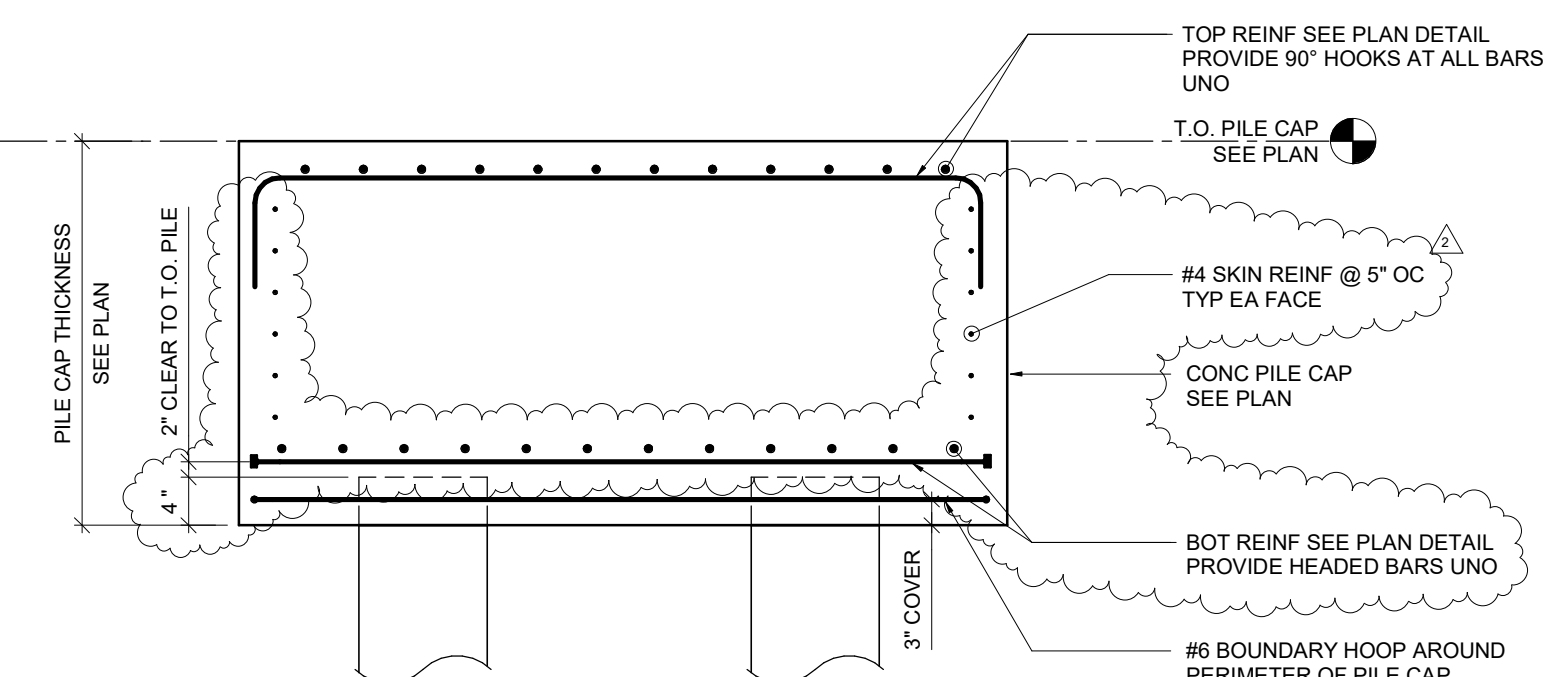


ELEVATION

5 PC5 DETAIL  
1/2" x 1'-0"

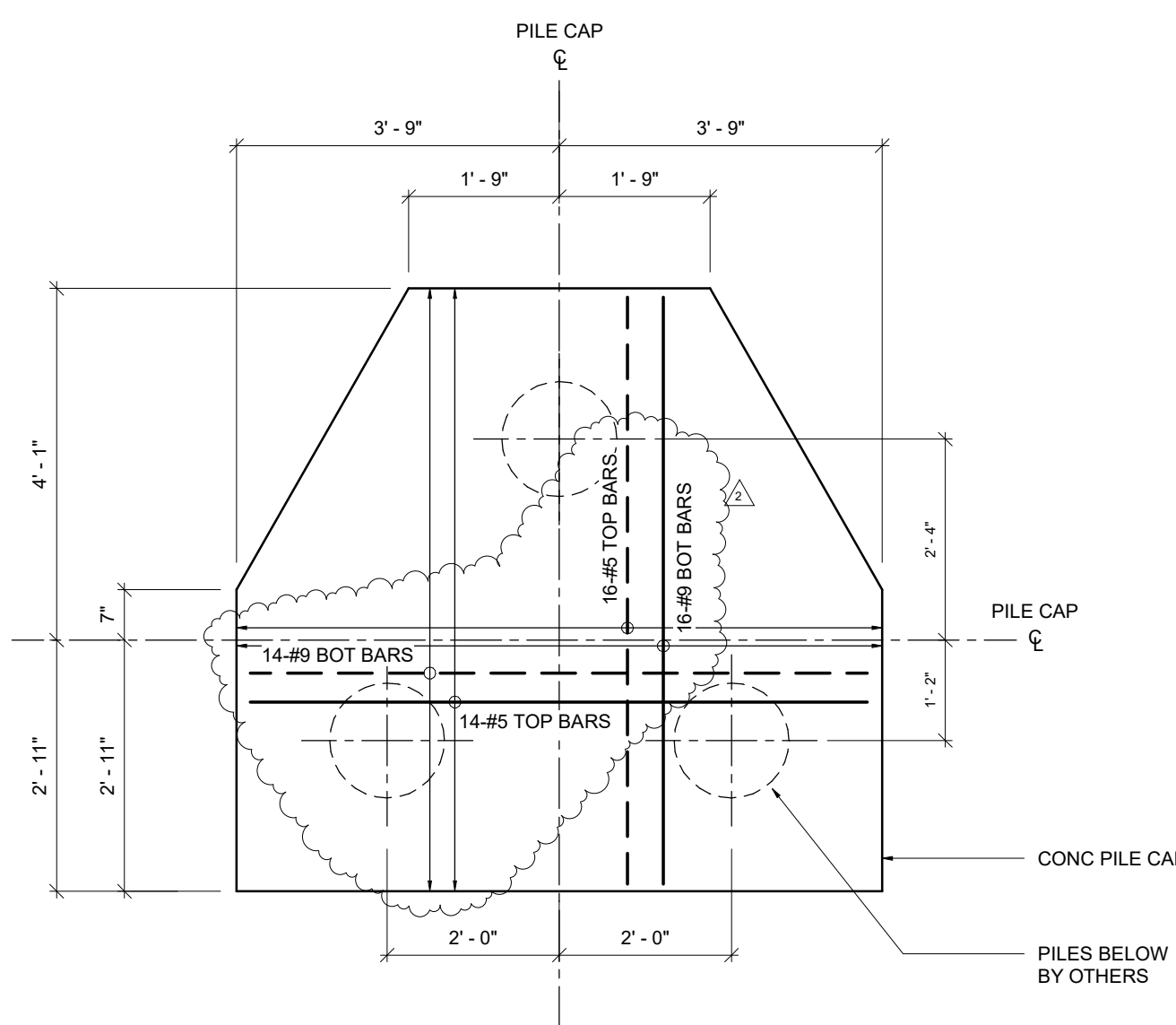


PLAN

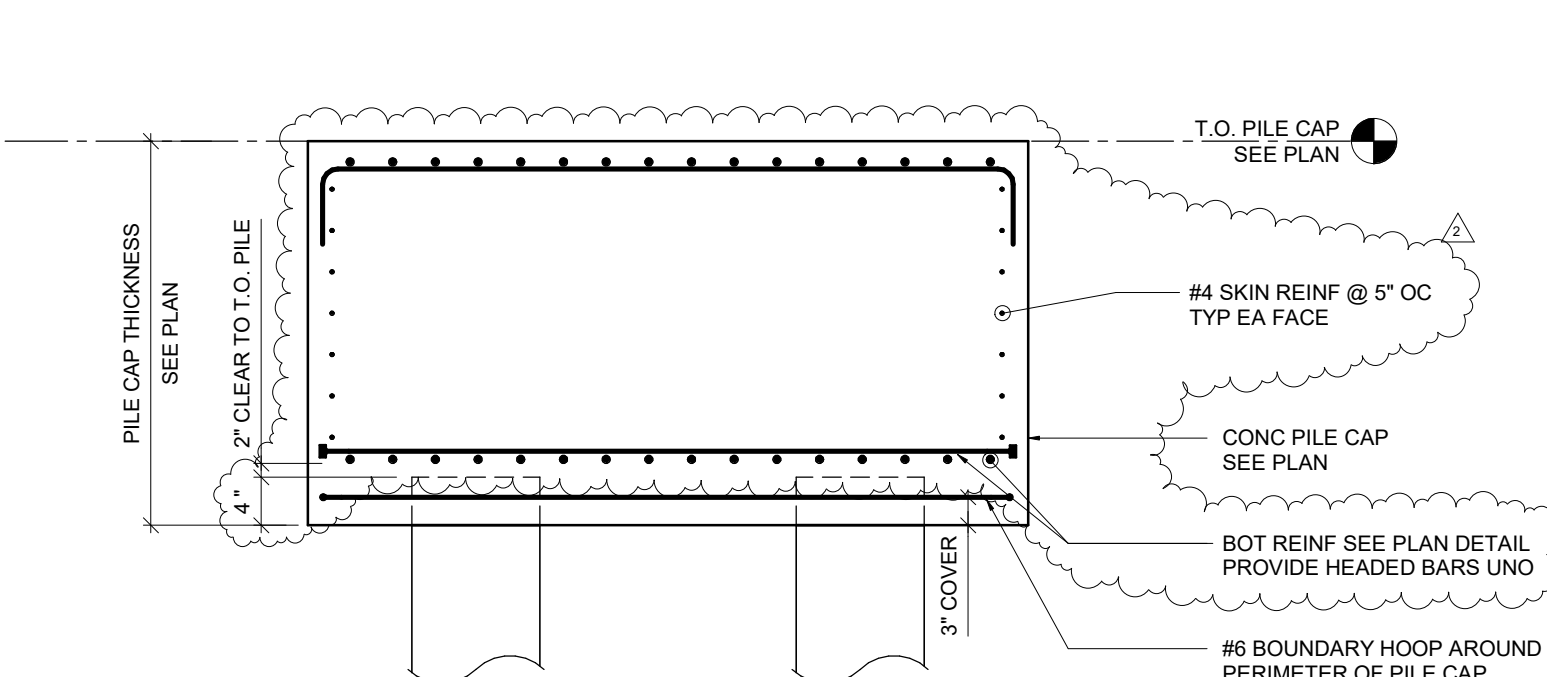


ELEVATION

4 PC4 DETAIL  
1/2" x 1'-0"

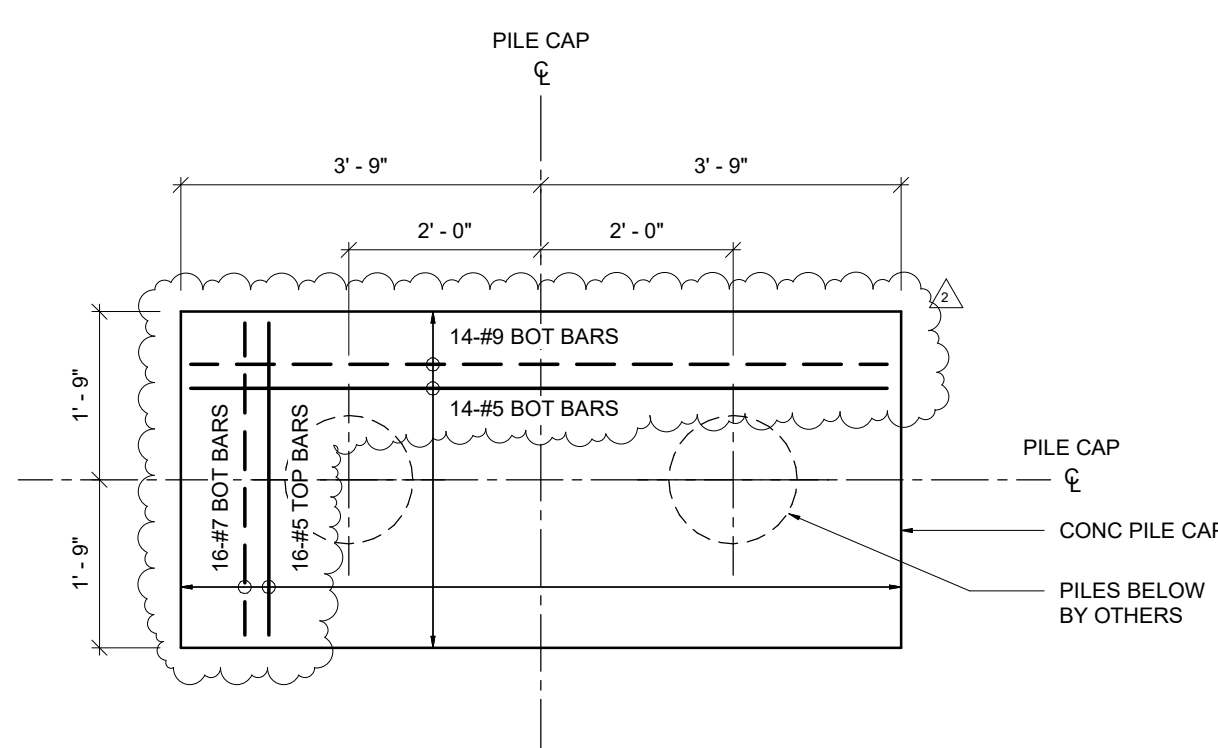


PLAN

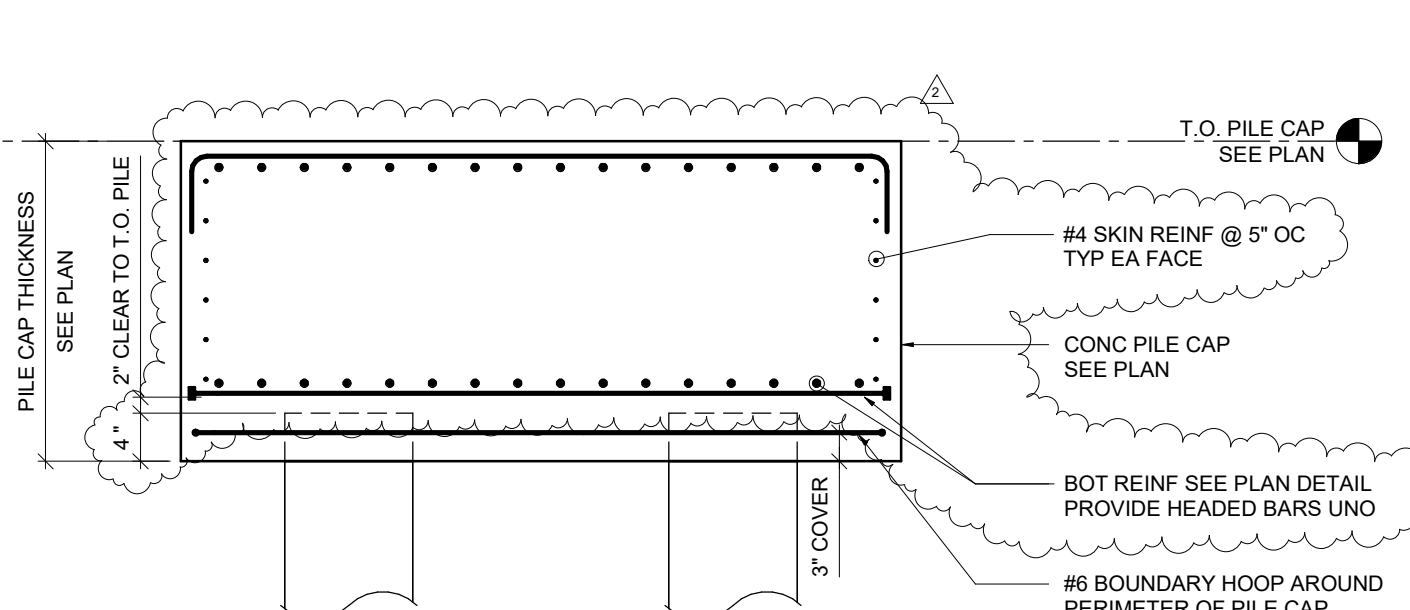


ELEVATION

3 PC3 DETAIL  
1/2" x 1'-0"

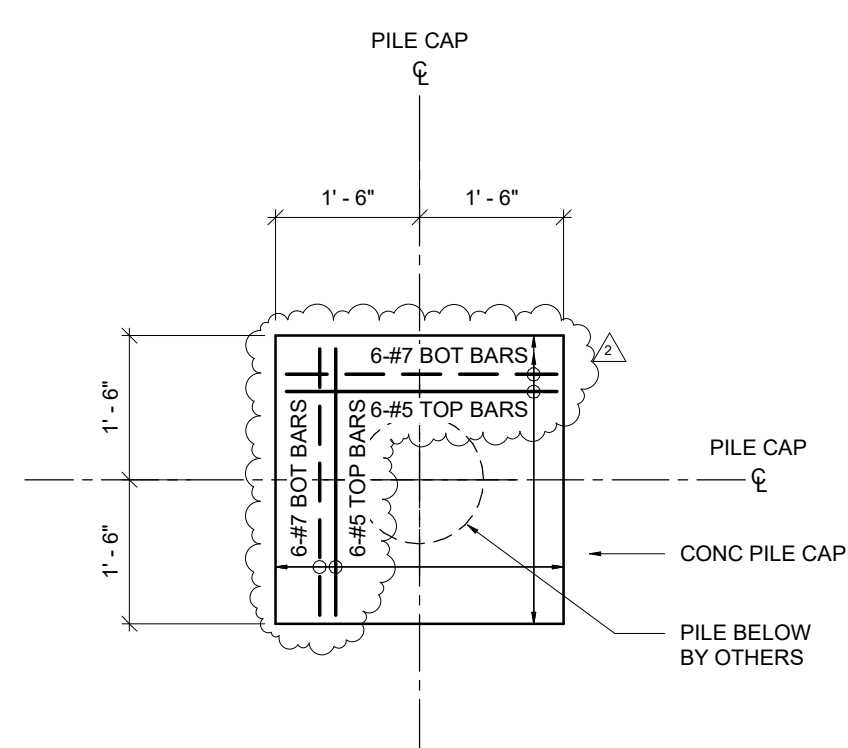


PLAN

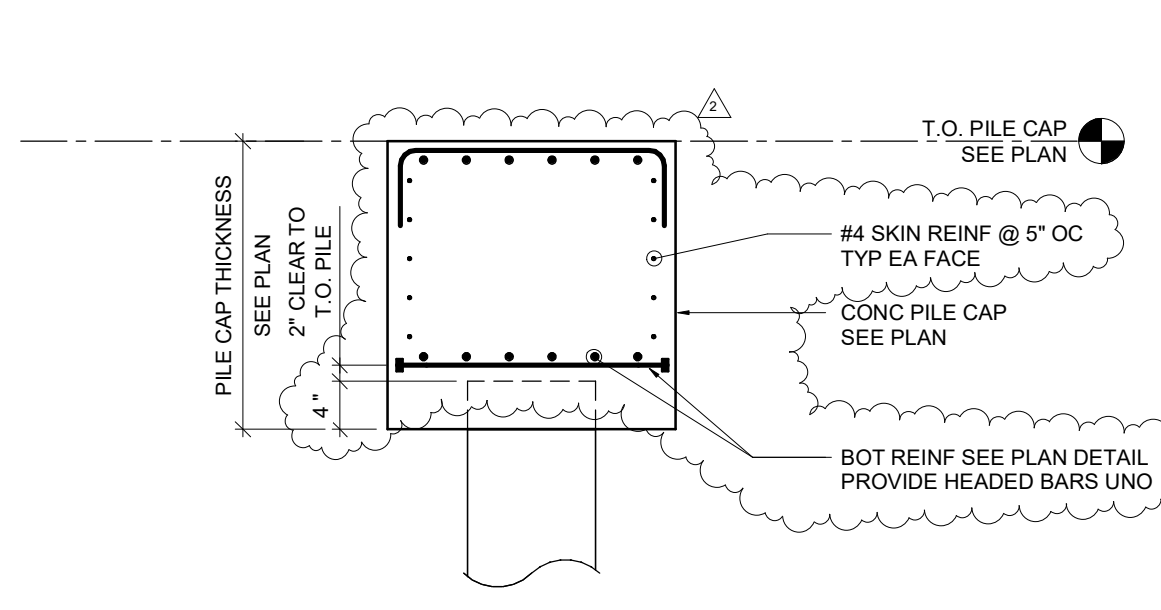


ELEVATION

2 PC2 DETAIL  
1/2" x 1'-0"



PLAN



ELEVATION

1 PC1 DETAIL  
1/2" x 1'-0"

CSG CONSULTANTS, INC.  
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By **LOK C. PHIROZE W.**  
**YVONNE C.**

Date: 7/28/2020

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1265 Borregas

GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

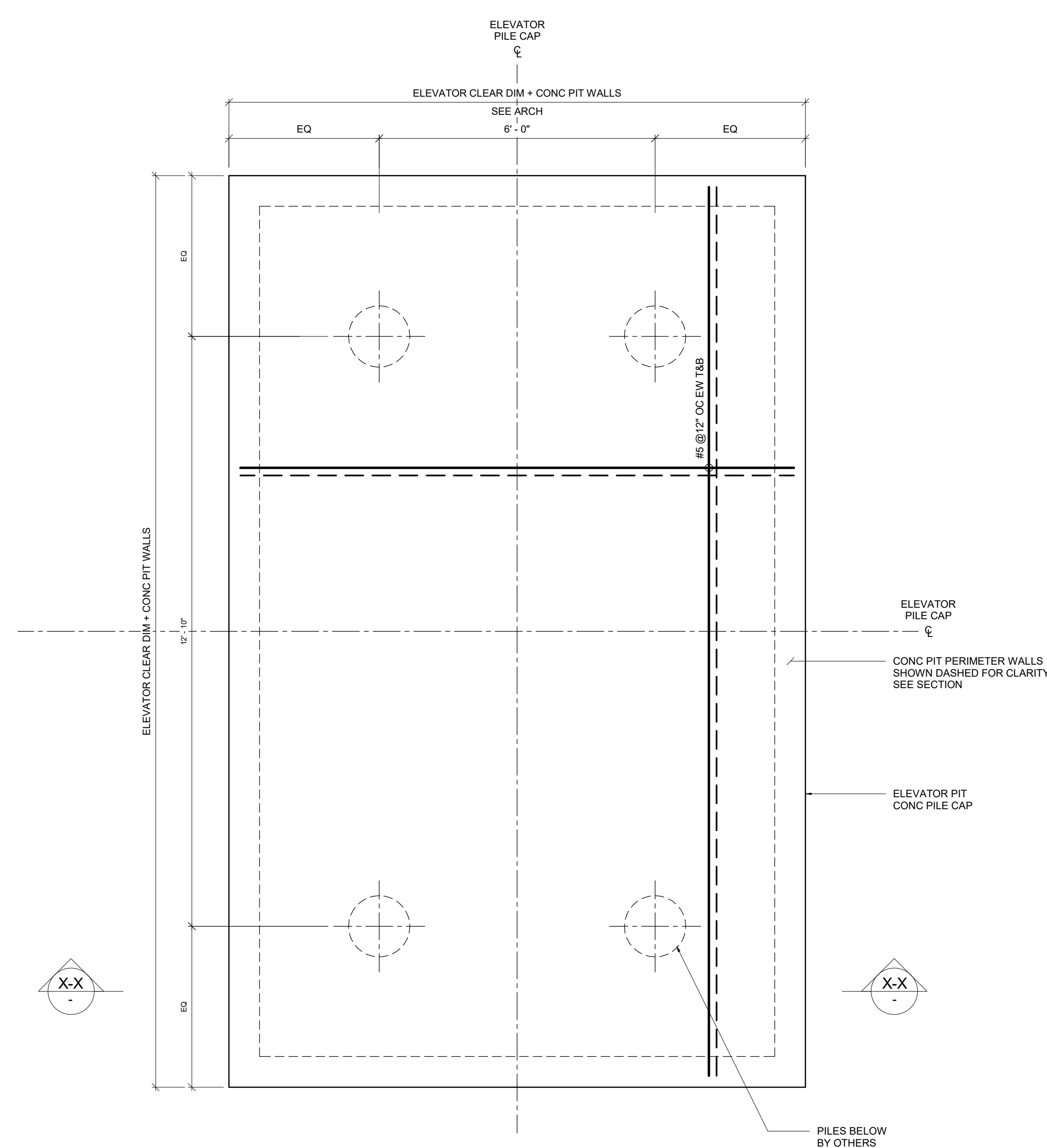
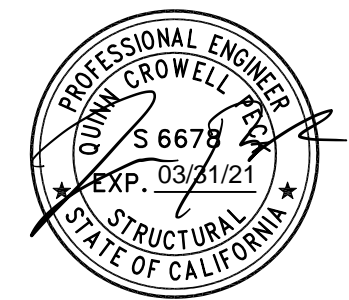
REVISIONS  
1. PLAN CHECK 06/11/2020  
RESPONSE 1 09/03/2020  
2. PLAN CHECK 08/05/2020  
RESPONSE 2

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

TYPICAL PILE  
CAP DETAILS  
**S300**

PERMIT SET

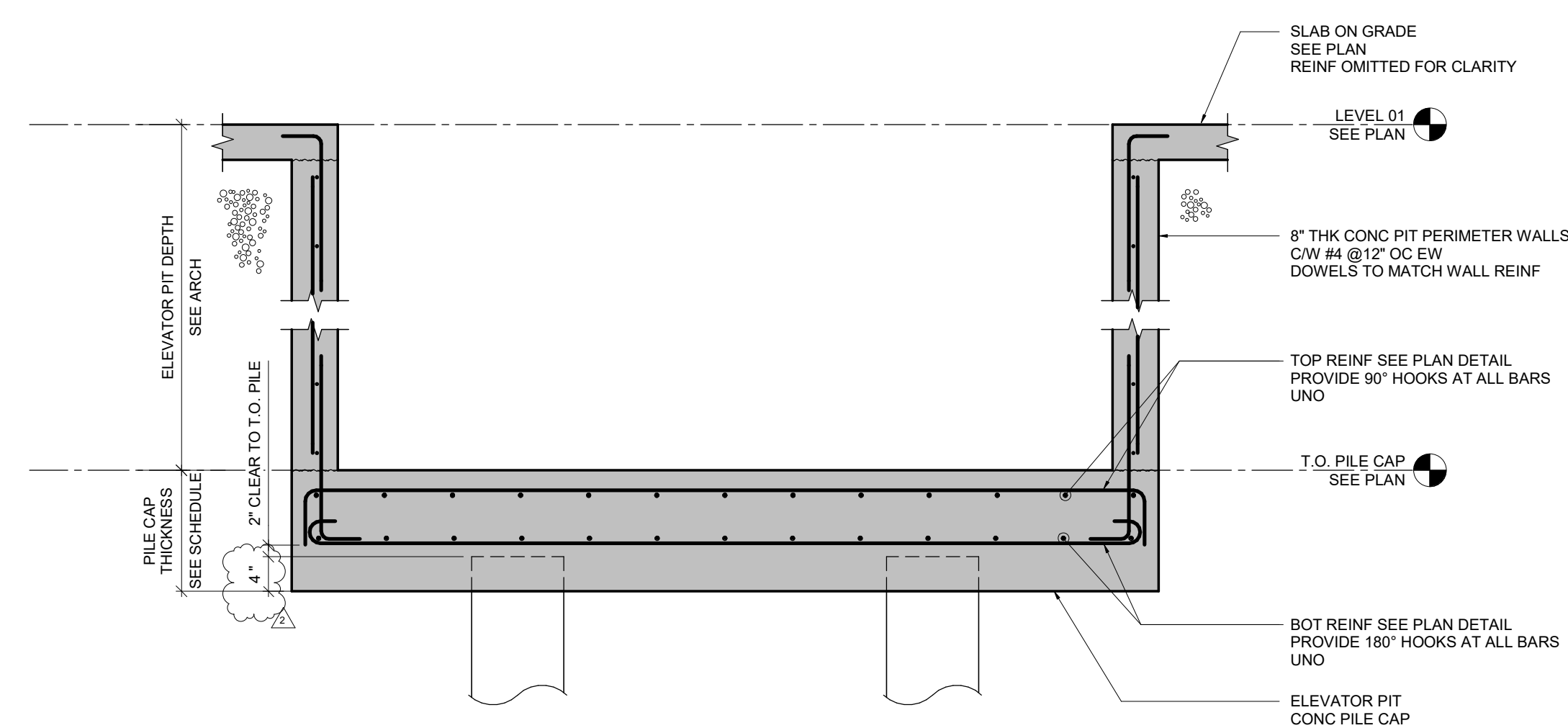




## PLAN

NOTES:

1. PROVIDE 3" CLEAR COVER TO ALL BARS UNO.



**X-X SECTION**

3 PC4E ELEVATOR DETAIL  
1/2" = 1'-0"

**CSG CONSULTANTS, INC.**  
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LOK C, PHIROZE W.,

By YVONNE C.

Date 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INS:

**1265 Borregas**

GOOGLE LLC  
1265 BORREGAS AVE.,  
SUNNYVALE CA

## REVISIONS

|                            |            |
|----------------------------|------------|
| ISSUED FOR PERMIT          | 06/01/2020 |
| 1 PLAN CHECK<br>RESPONSE 1 | 09/03/2020 |
| 2 PLAN CHECK<br>RESPONSE 2 | 08/05/2020 |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

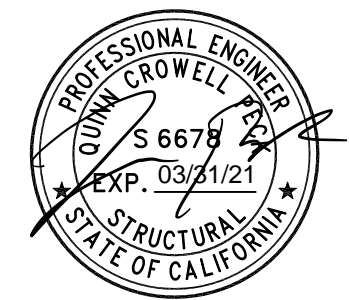
## TYPICAL PILE CAP DETAILS S301

PERMIT SET

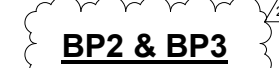




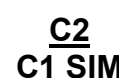




1D TYPICAL BASE PL TYPES  
— 1" = 1'-0"



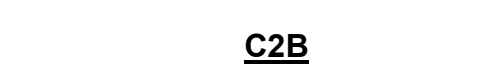
**1C TYPICAL DAPPED IN PL TYPES**  
1" = 1'-0"



**TYPICAL COLUMN TO COLUMN BEARING PLATES**



1B TYPICAL COLUMN TYPES



1A SECTION  
1" = 1'-0"



1 TYPICAL COLUMN BASE DETAIL  
1" = 1'-0"

GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

RESPONSE 2

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020

PROJECT NO: 18040

TYPICAL GL  
COLUMN BASE

## COLUMN BASE AND BEARING

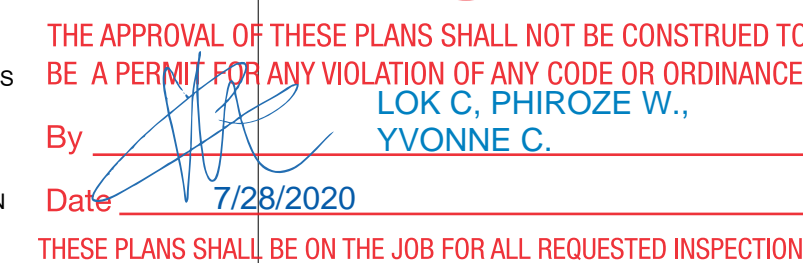
## AND BEARING DETAILS

**0400**

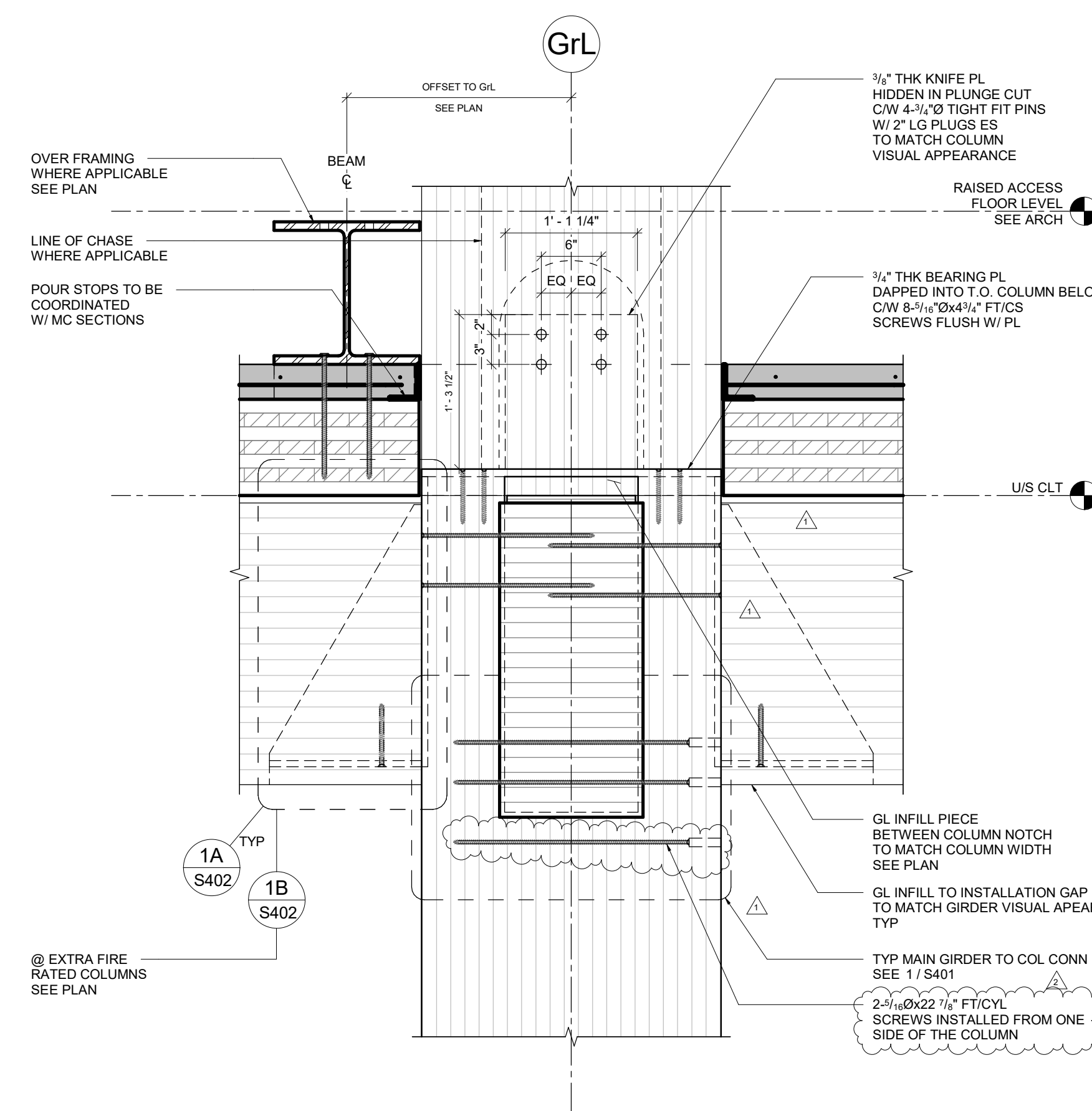
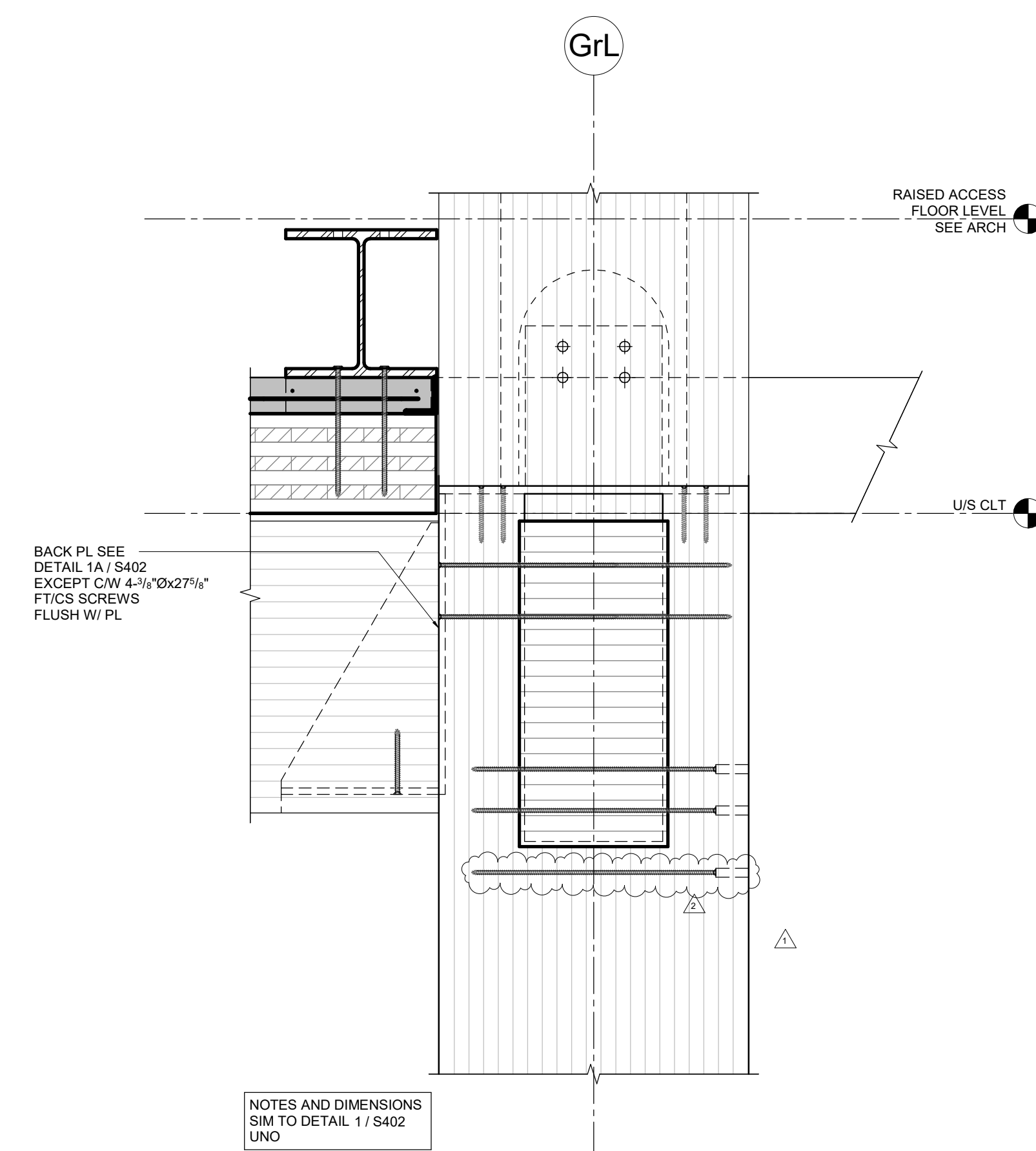
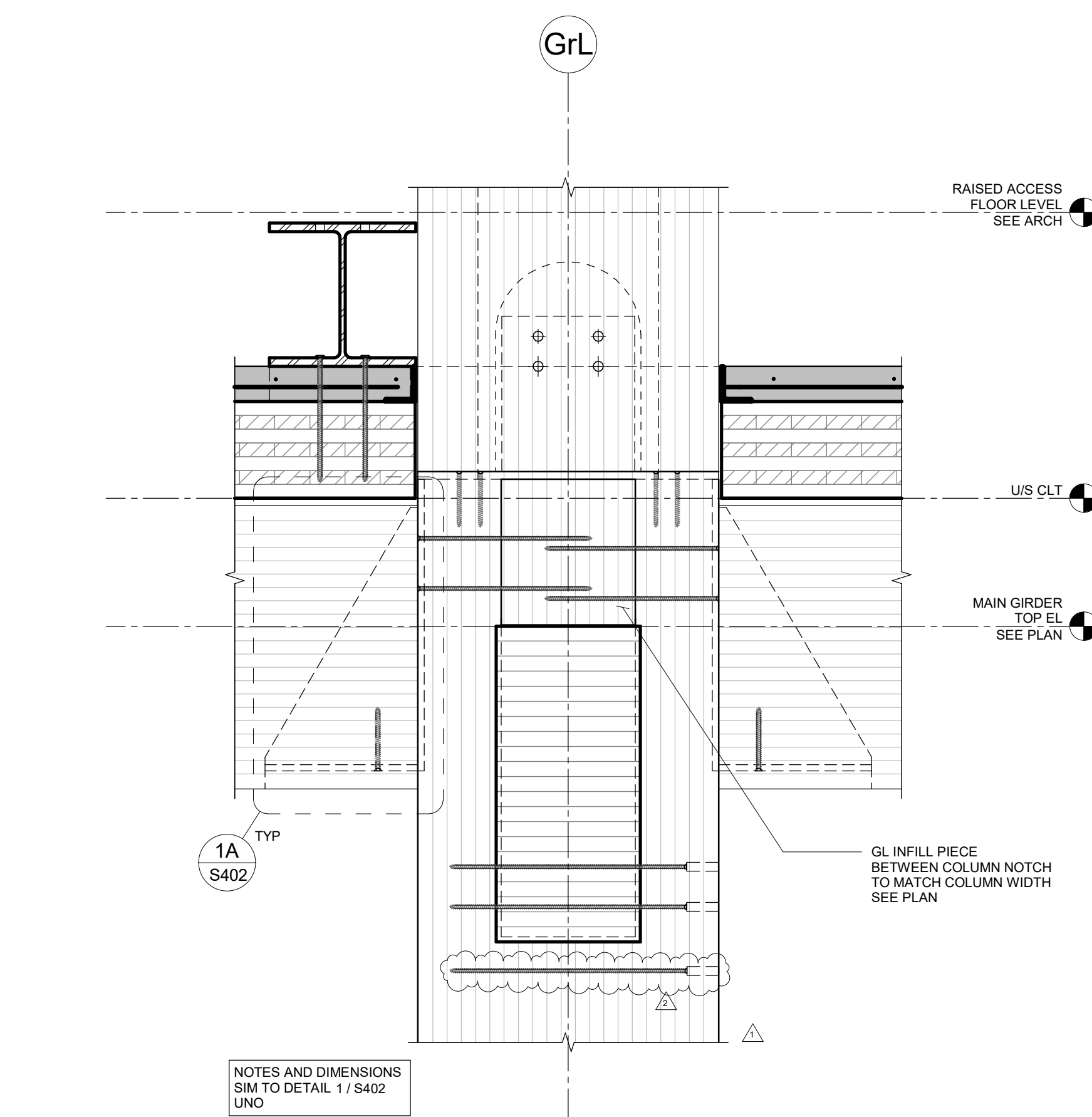
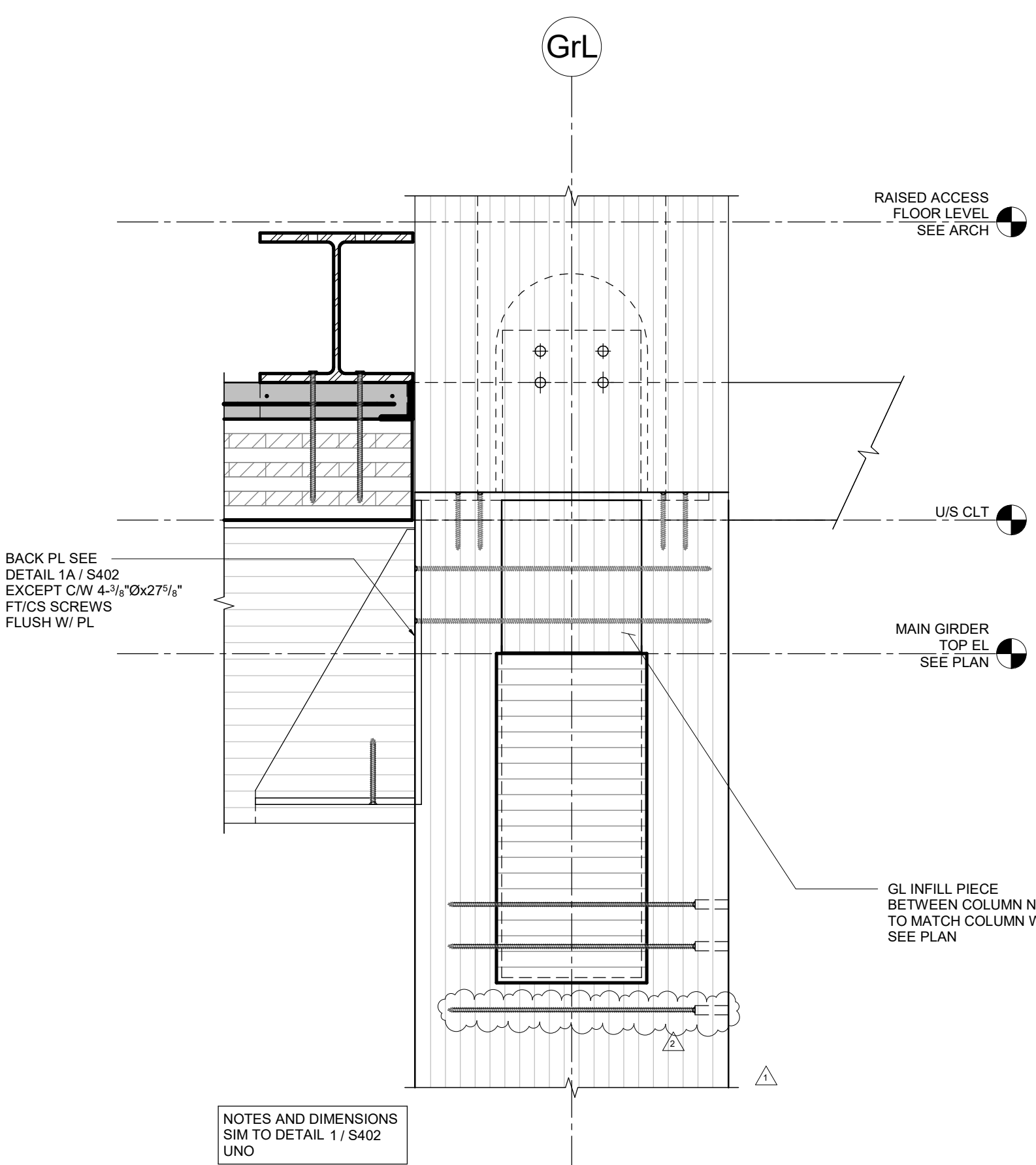
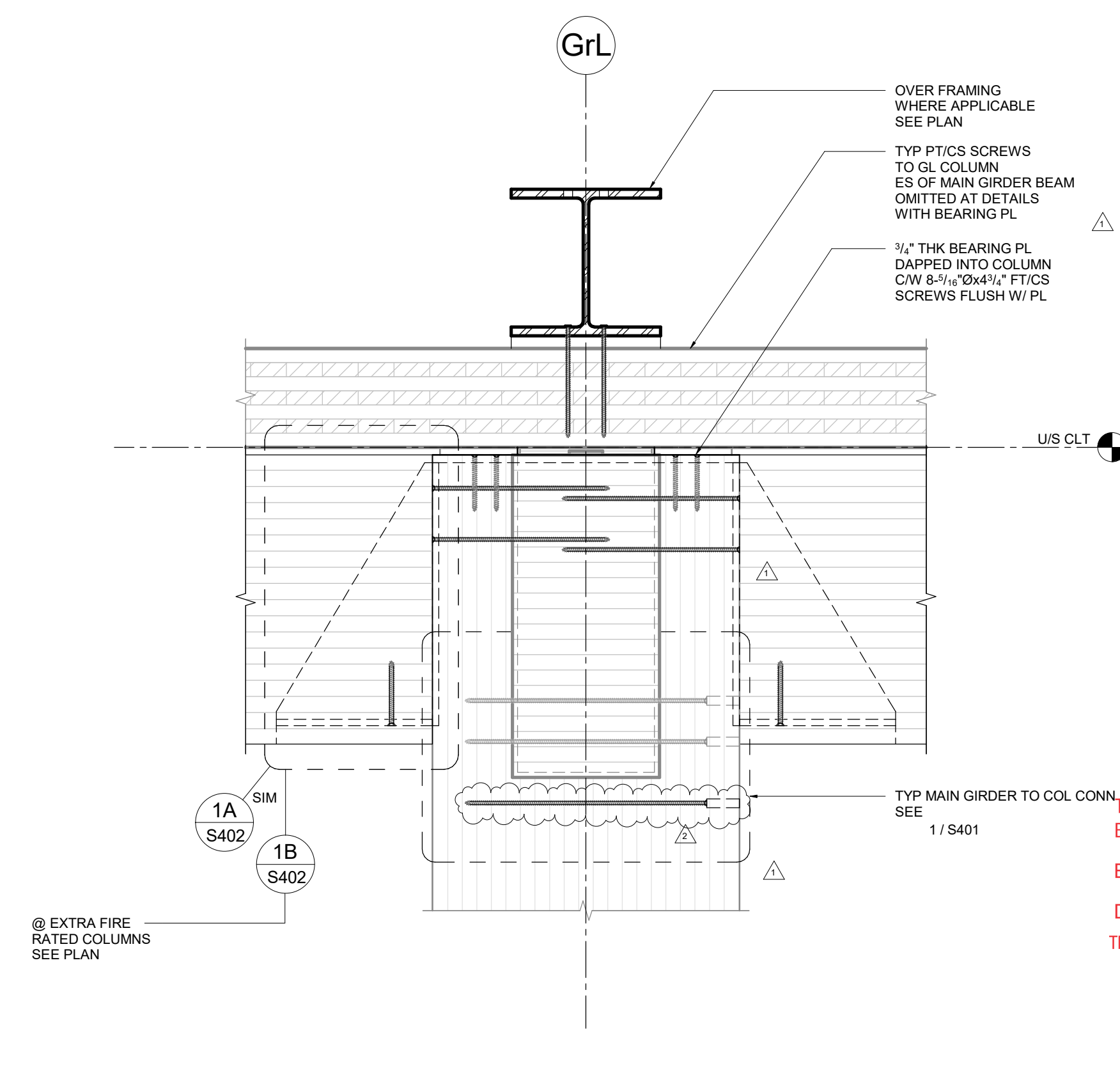
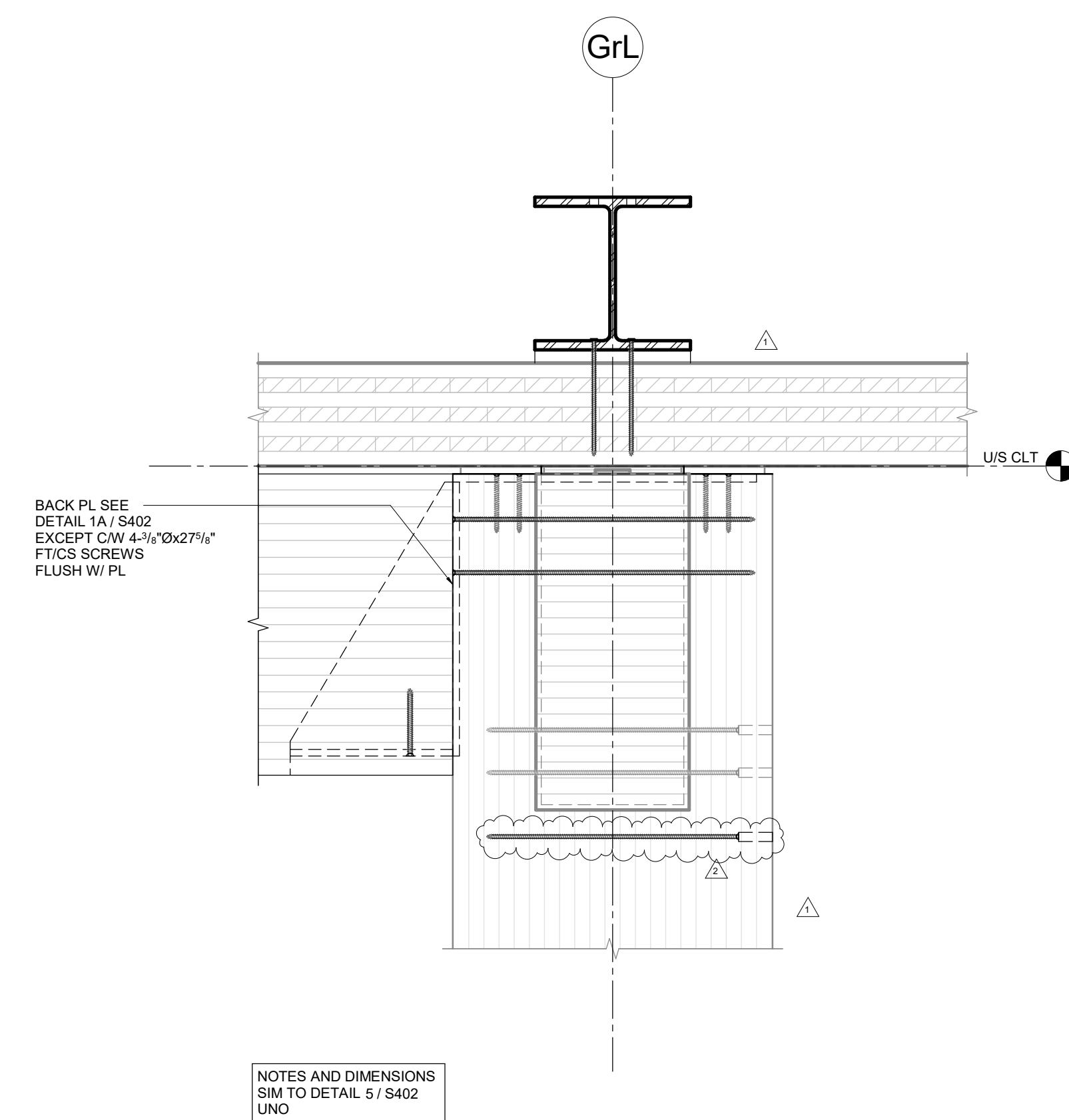
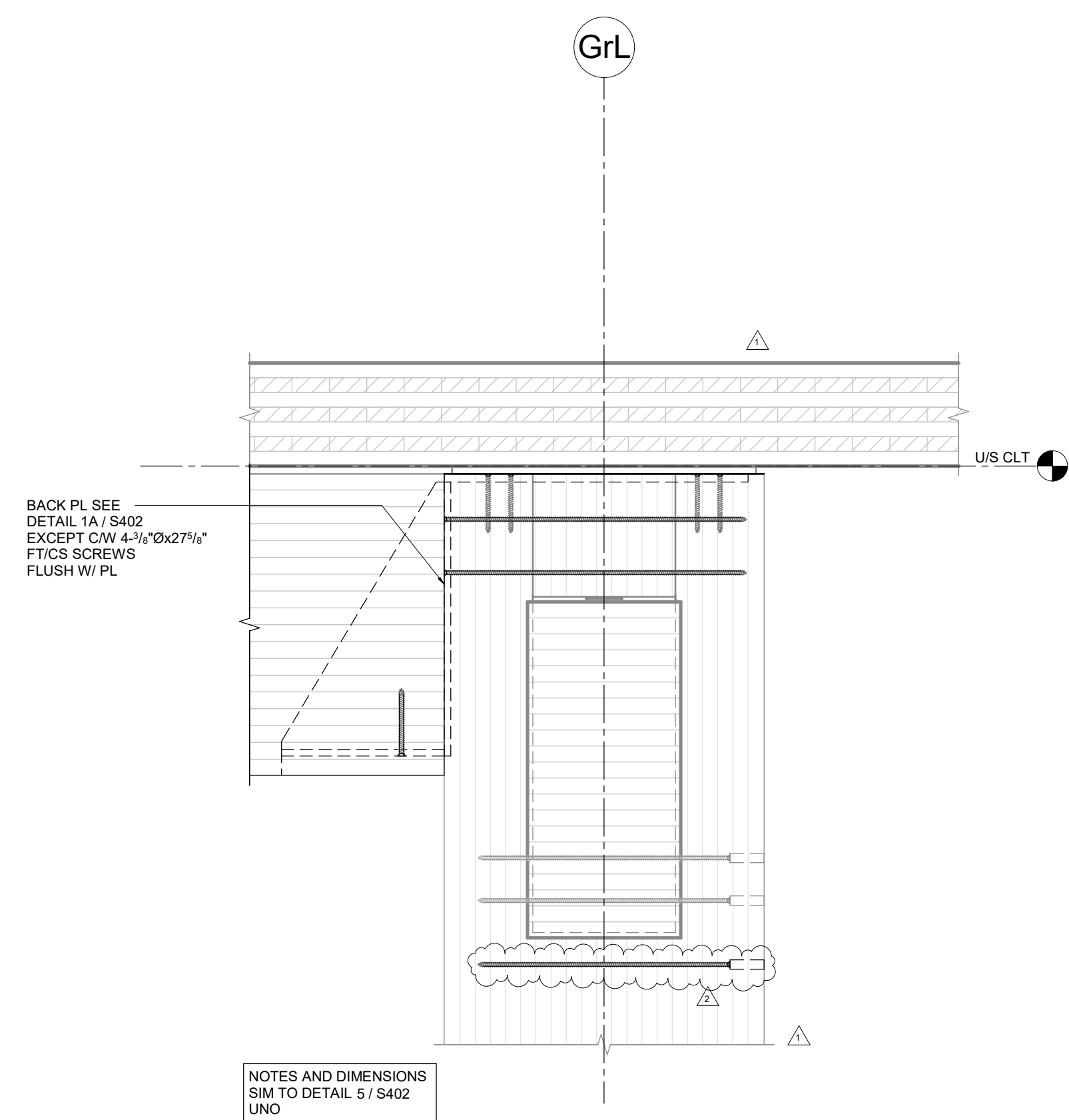
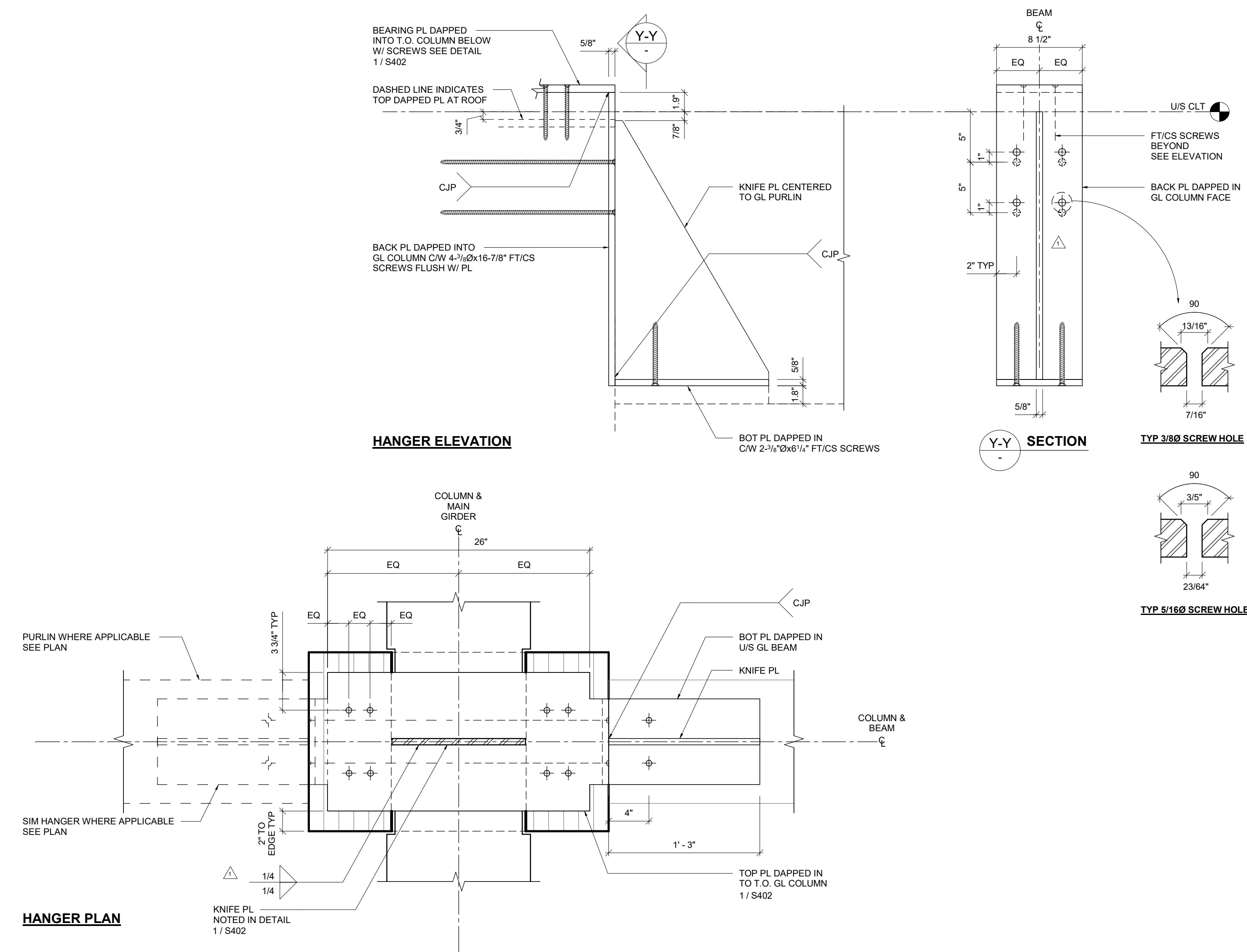
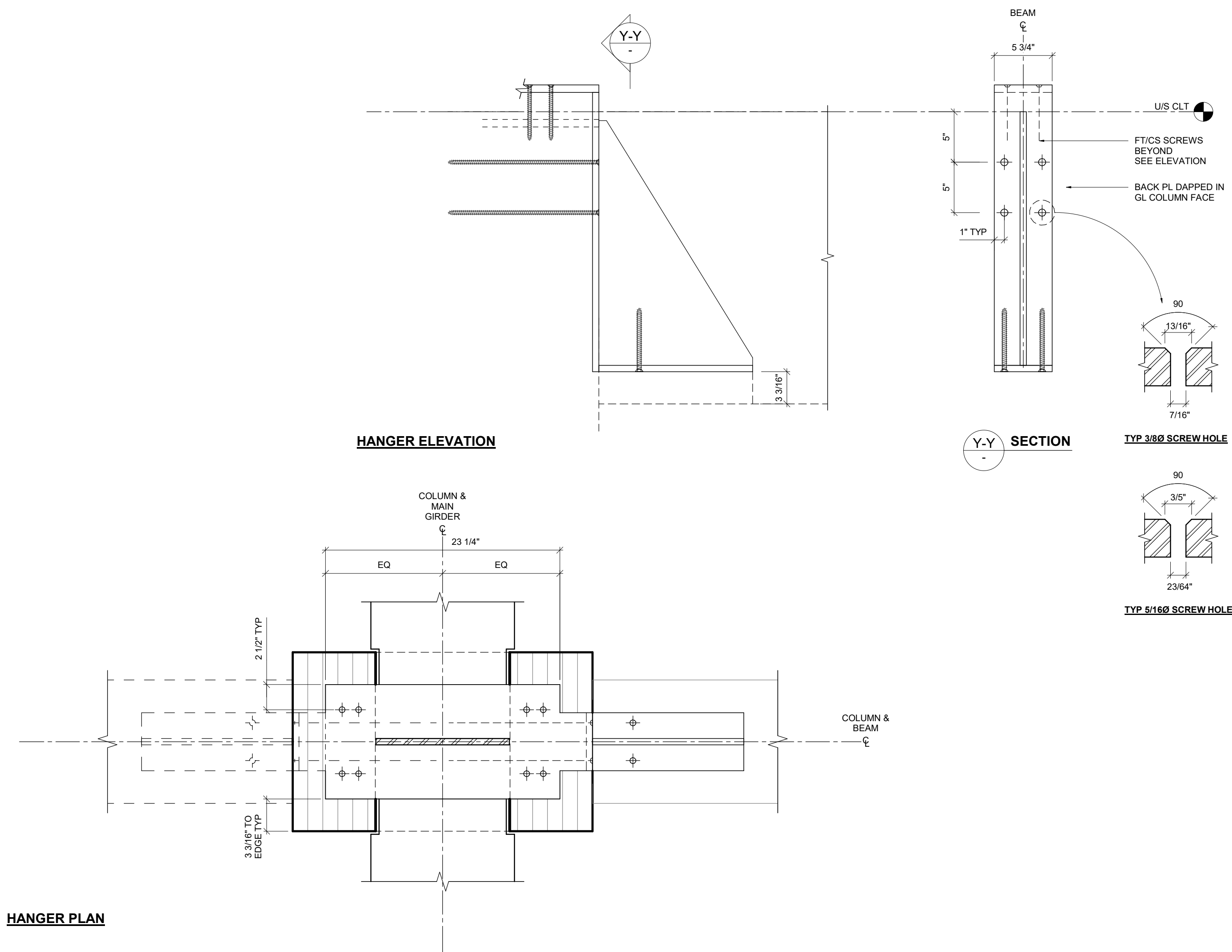
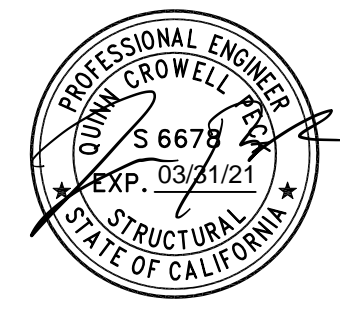
**\$400**

**PERMIT SET**









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By **LOK C. PHIROZE W.,**  
**YVONNE C.**  
Date **7/28/2020**  
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GOODELL LLC  
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SUNNYVALE CA

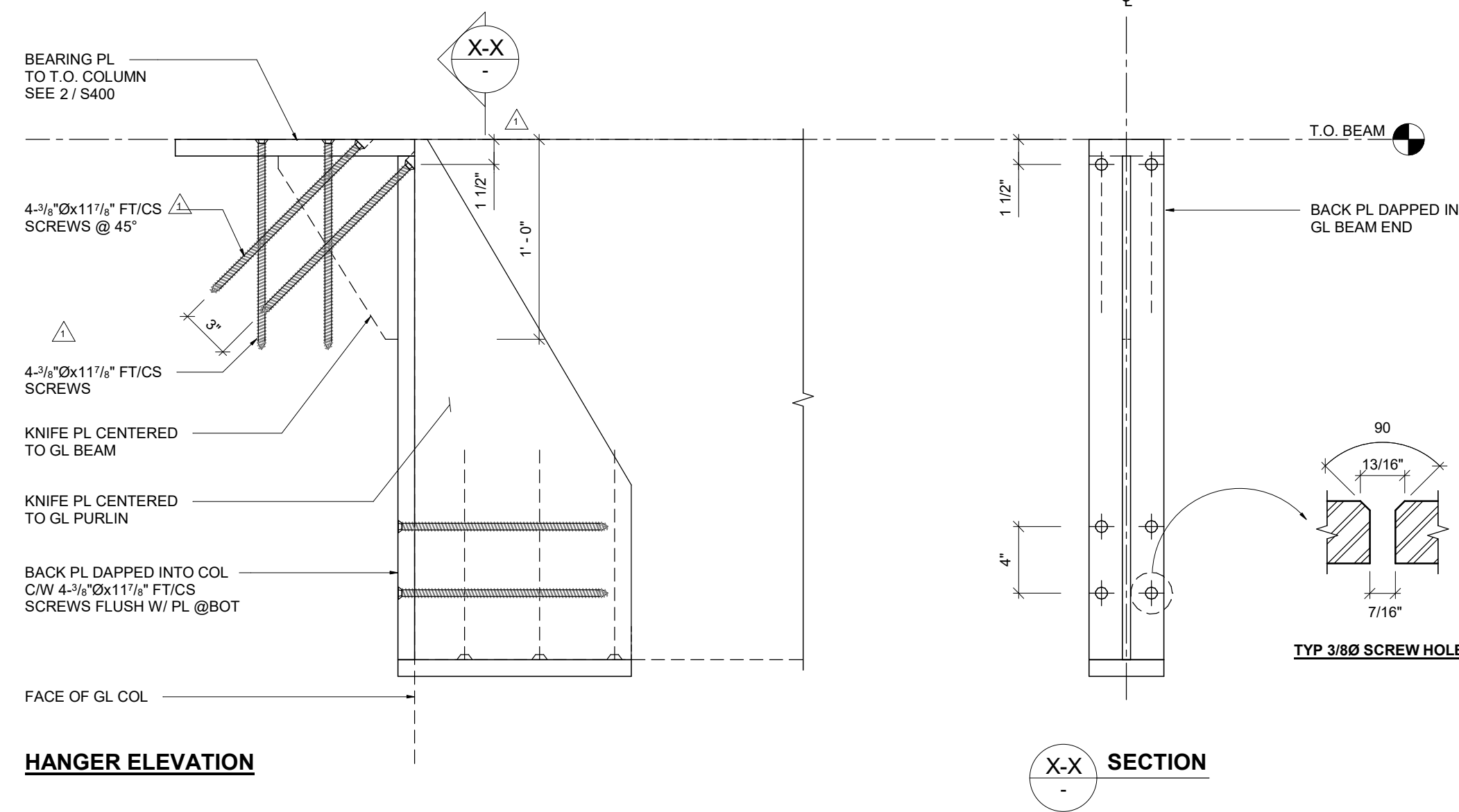
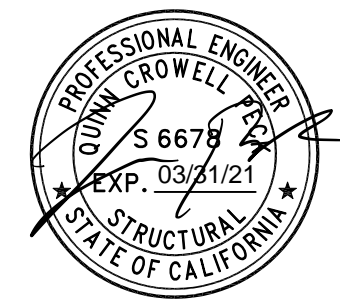
REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1 PLAN CHECK RESPONSE 1 09/03/2020  
2 PLAN CHECK RESPONSE 2 08/05/2020

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

TYPICAL GL PURLIN & COLUMN CONN DETAILS  
**S402**

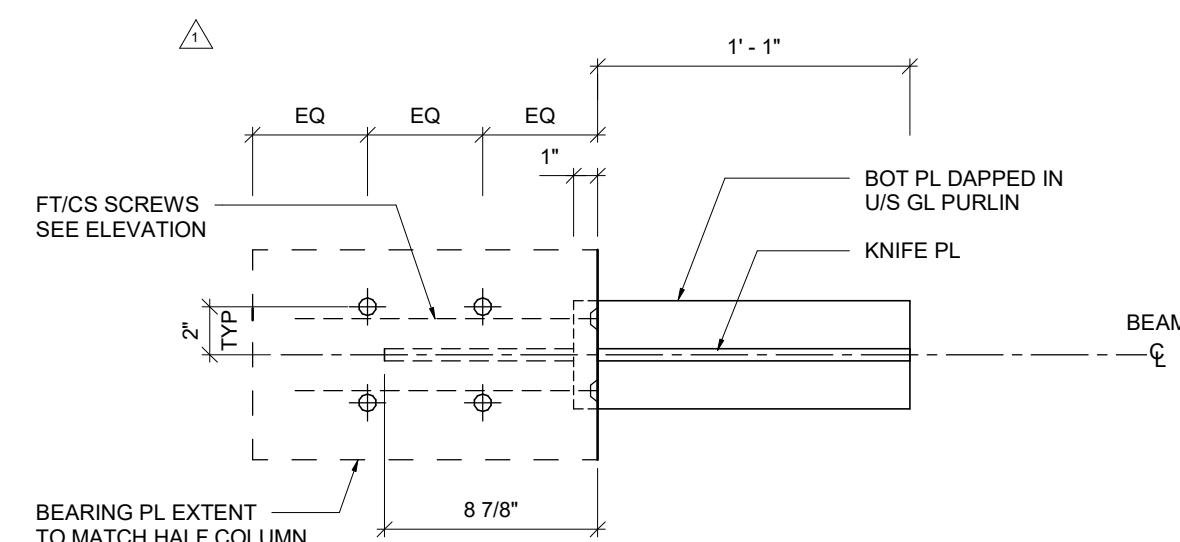
PERMIT SET





HANGER ELEVATION

X-X SECTION

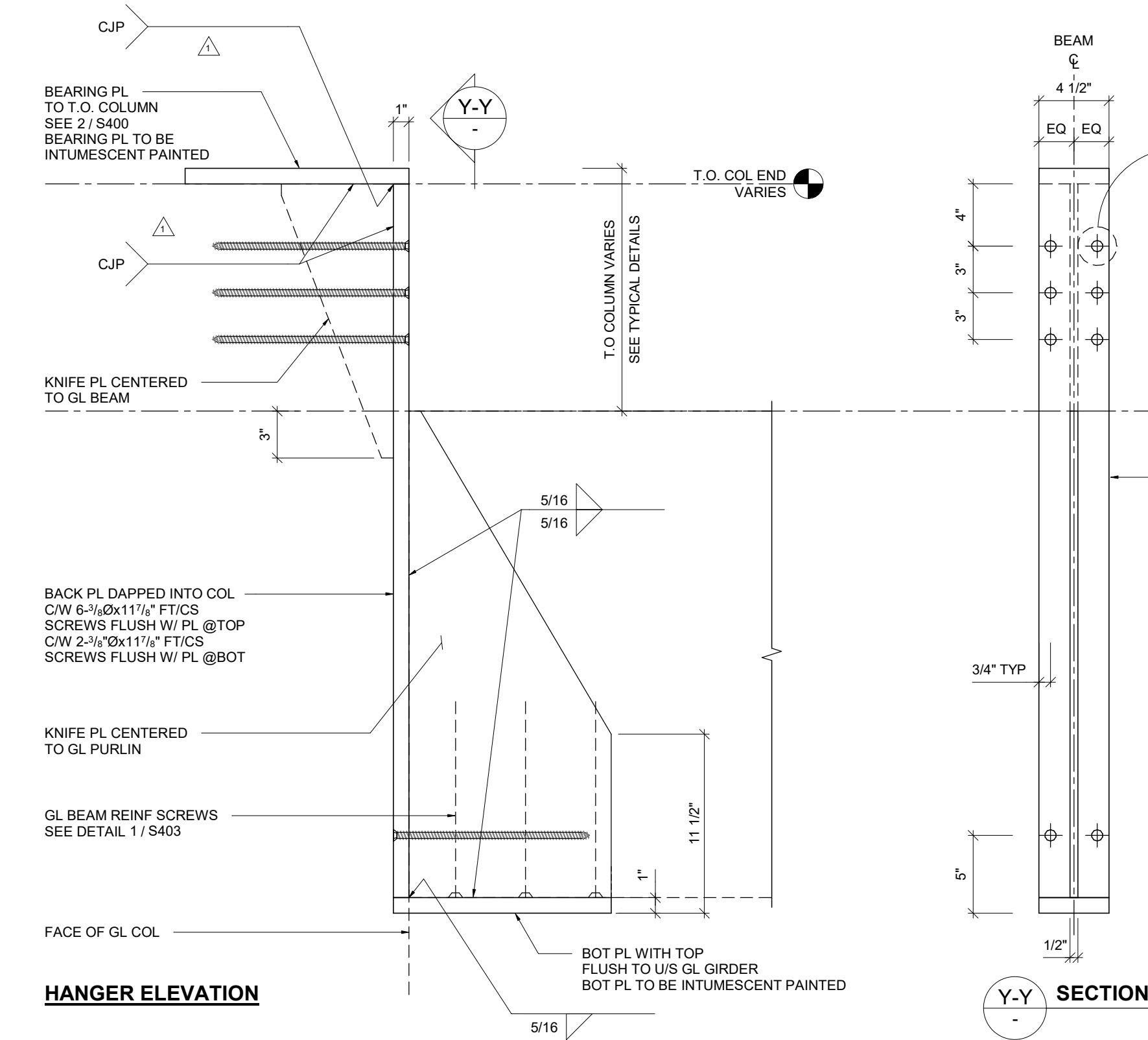


HANGER PLAN

NOTE:  
ALL STEEL TO BE GR 50

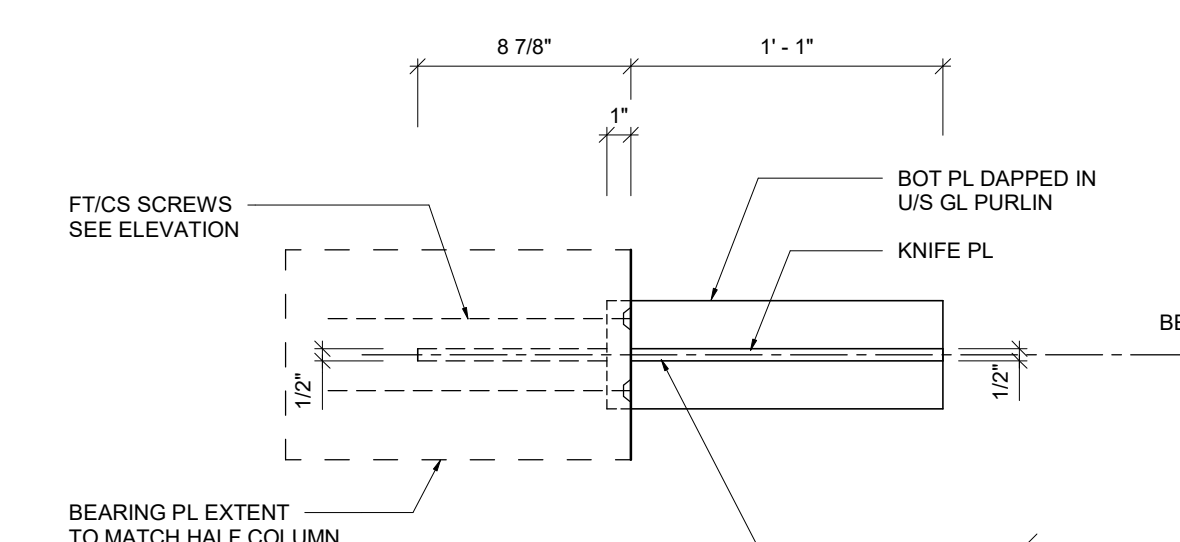
NOTES AND DIMENSIONS  
SM TO DETAIL 1A / S403  
UNO

4A HANGER DETAILS - H7  
1 1/2" x 1'-0"



HANGER ELEVATION

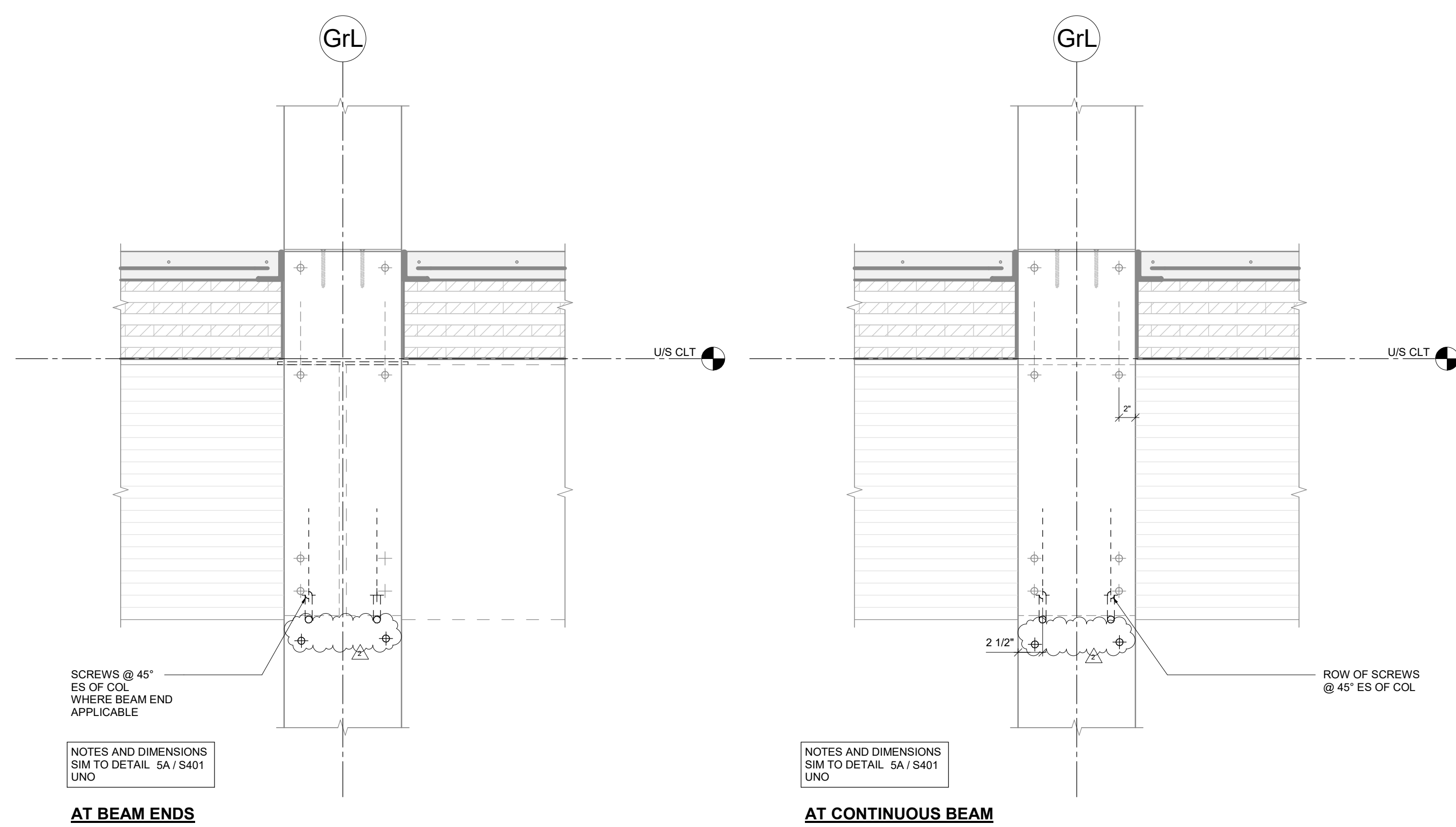
Y-Y SECTION



HANGER PLAN

NOTE:  
ALL STEEL TO BE GR 50

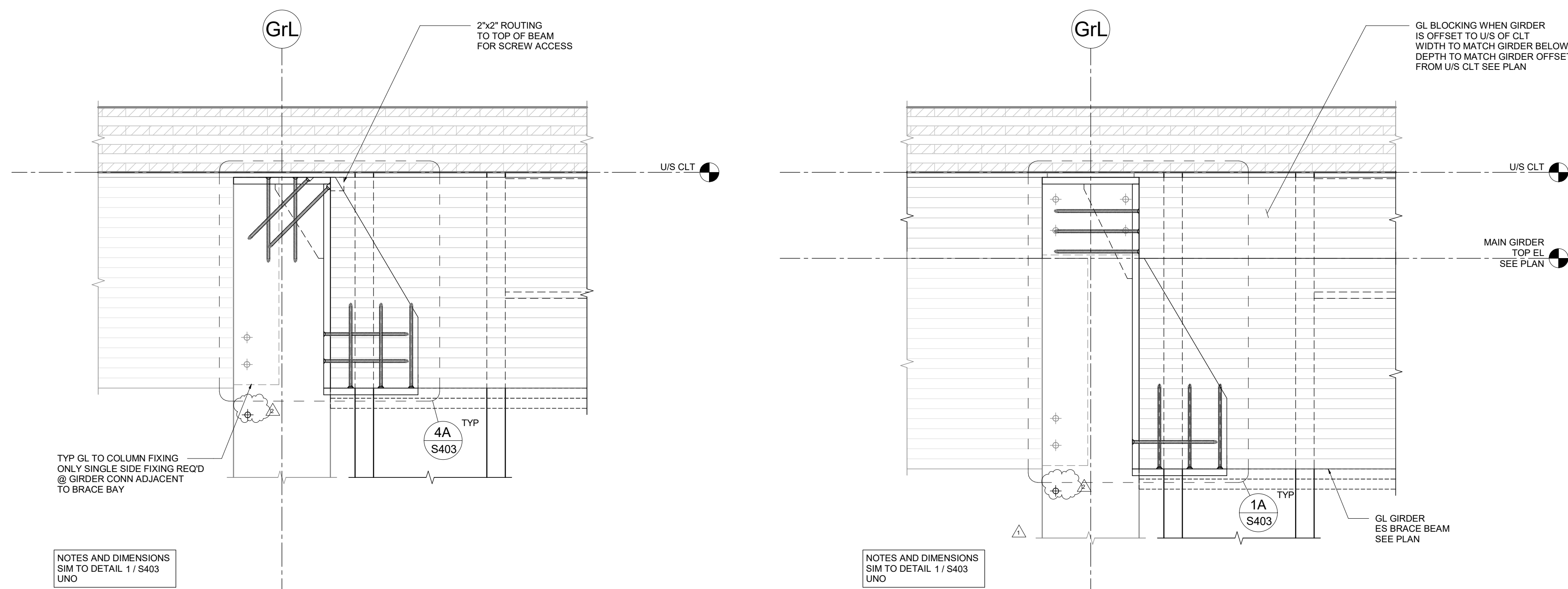
1A HANGER DETAILS - H6  
1 1/2" x 1'-0"



AT BEAM ENDS

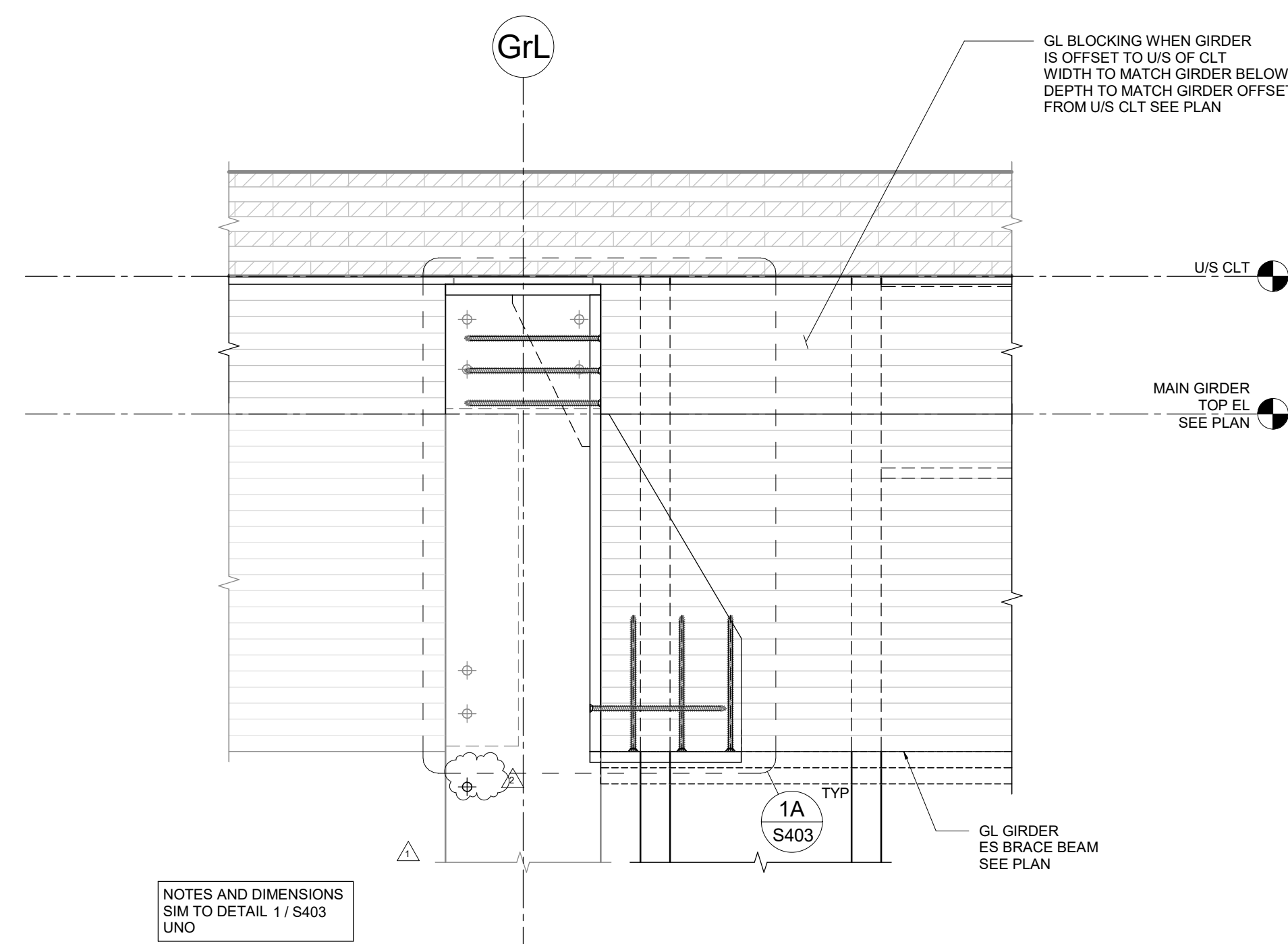
AT CONTINUOUS BEAM

5A SECTION  
1'-0" x 1'-0"



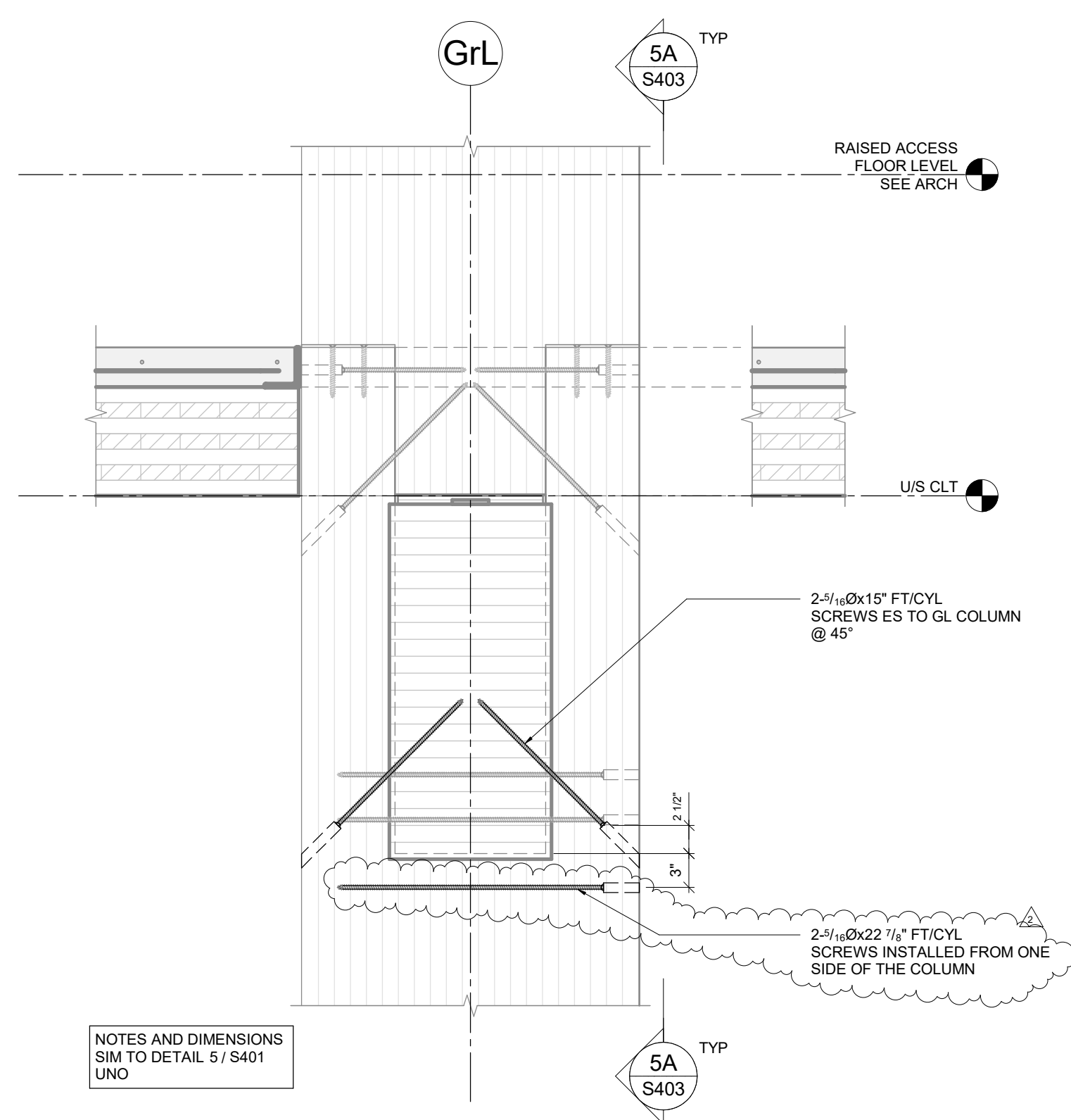
4 TYP DOUBLE GIRDER @U/S CLT ROOF  
BRACE BAY HANGER TO GL COL (CCX/2.0.0)  
1'-0" x 1'-0"

4 NOTES AND DIMENSIONS  
SM TO DETAIL 1 / S403  
UNO



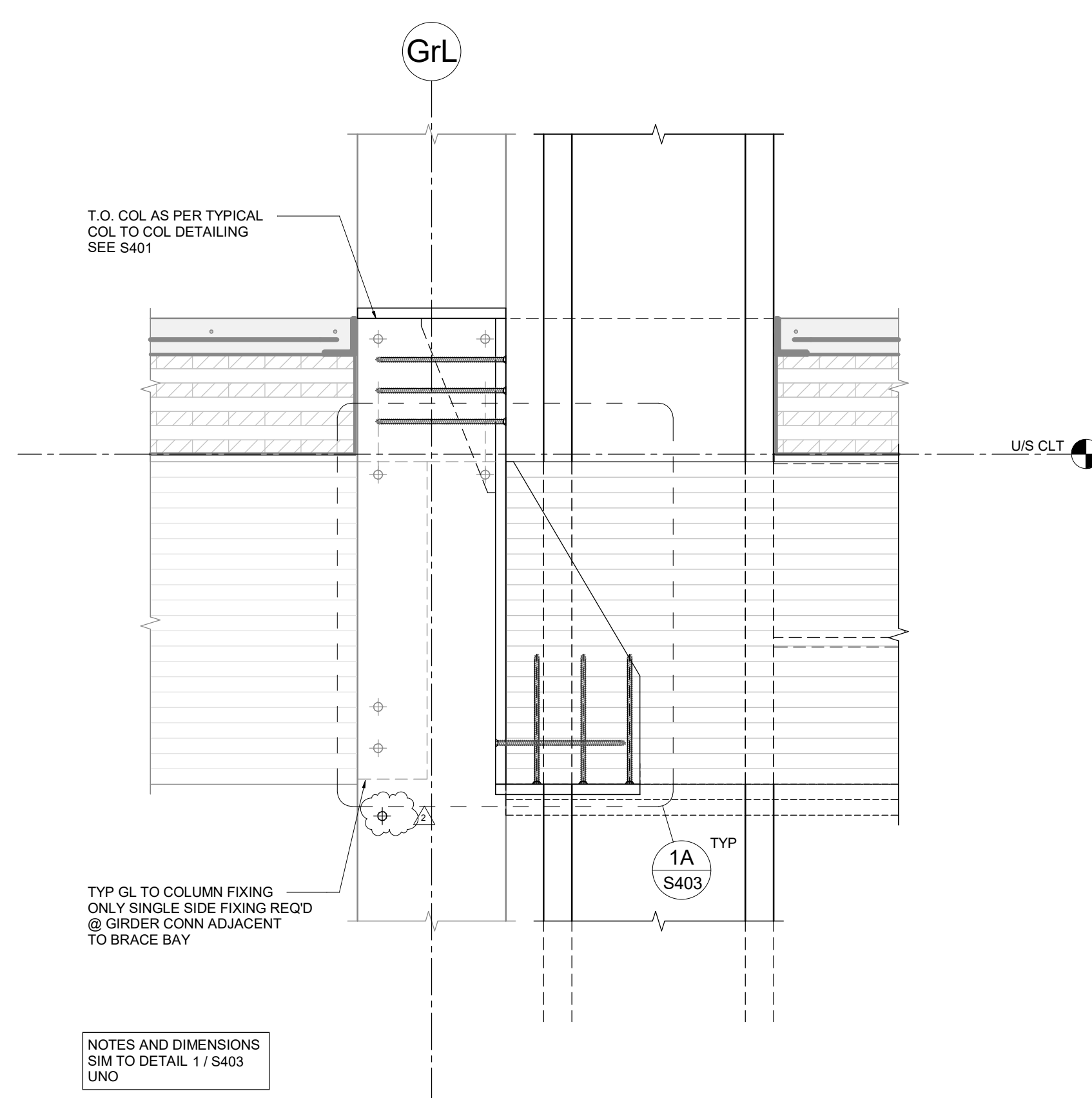
3 TYP DOUBLE GIRDER @OFFSET CLT ROOF  
BRACE BAY HANGER TO GL COL (CCX/1.0.0)  
1'-0" x 1'-0"

3 NOTES AND DIMENSIONS  
SM TO DETAIL 1 / S403  
UNO



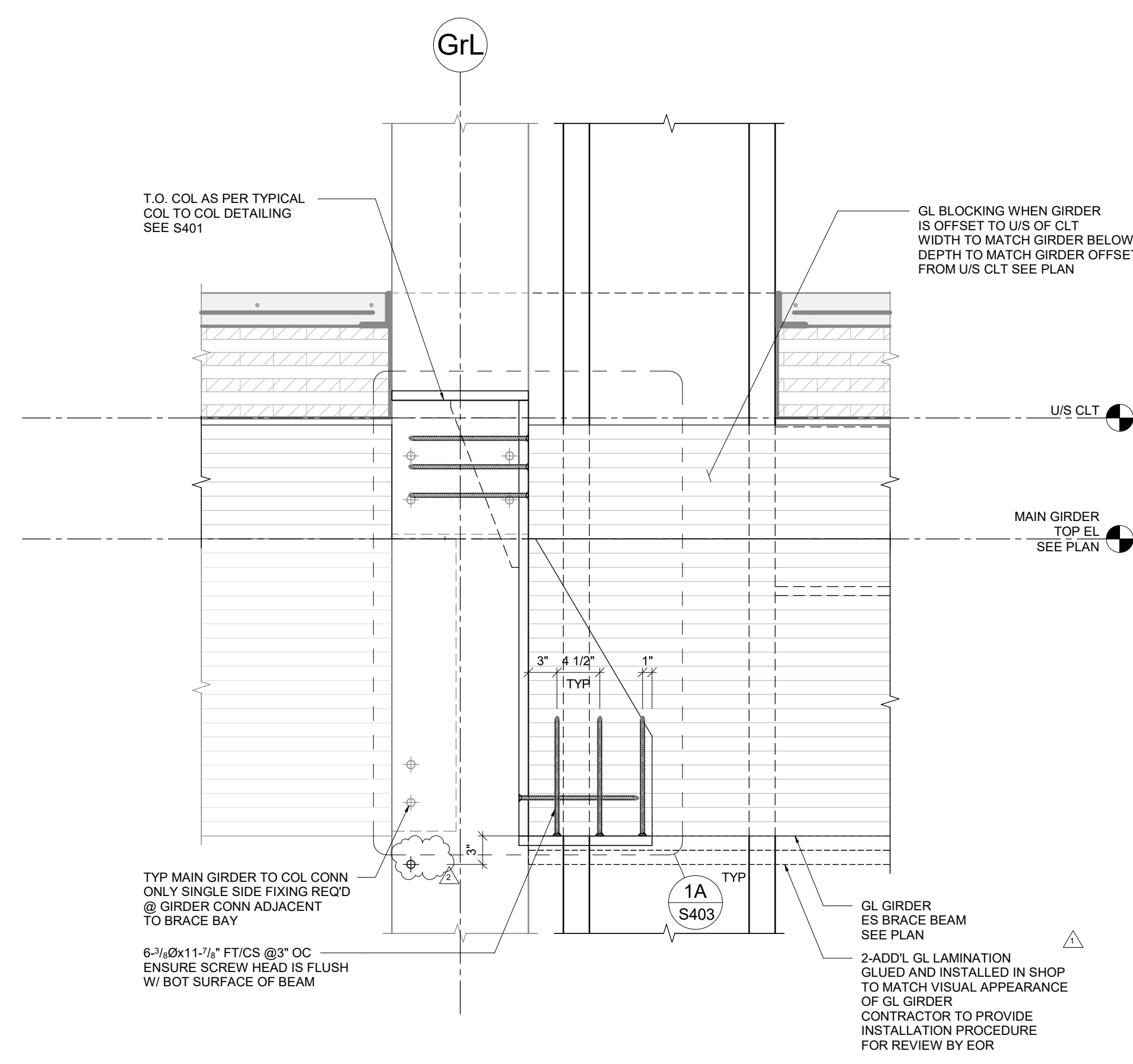
5 FLOOR MAIN GIRDER @ U/S CLT THRU COL  
(CC9.0.0)  
1'-0" x 1'-0"

5 NOTES AND DIMENSIONS  
SM TO DETAIL 5 / S401  
UNO



2 TYP DOUBLE GIRDER @U/S CLT FLOOR  
BRACE BAY HANGER TO GL COL (CCX/1.0.0)  
1'-0" x 1'-0"

2 NOTES AND DIMENSIONS  
SM TO DETAIL 1 / S403  
UNO



1 TYP DOUBLE GIRDER @OFFSET CLT FLOOR  
BRACE BAY HANGER TO GL COL (CCX/1.0.0)  
1'-0" x 1'-0"

1 NOTES AND DIMENSIONS  
SM TO DETAIL 1 / S403  
UNO

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By: YVONNE C. PHIROZE W.,  
Date: 7/28/2020

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GOOGLE LLC  
1265 BORREGAS AVE  
SUNNYVALE CA

REVISIONS  
1 PLAN CHECK 06/01/2020  
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2 PLAN CHECK 08/05/2020

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

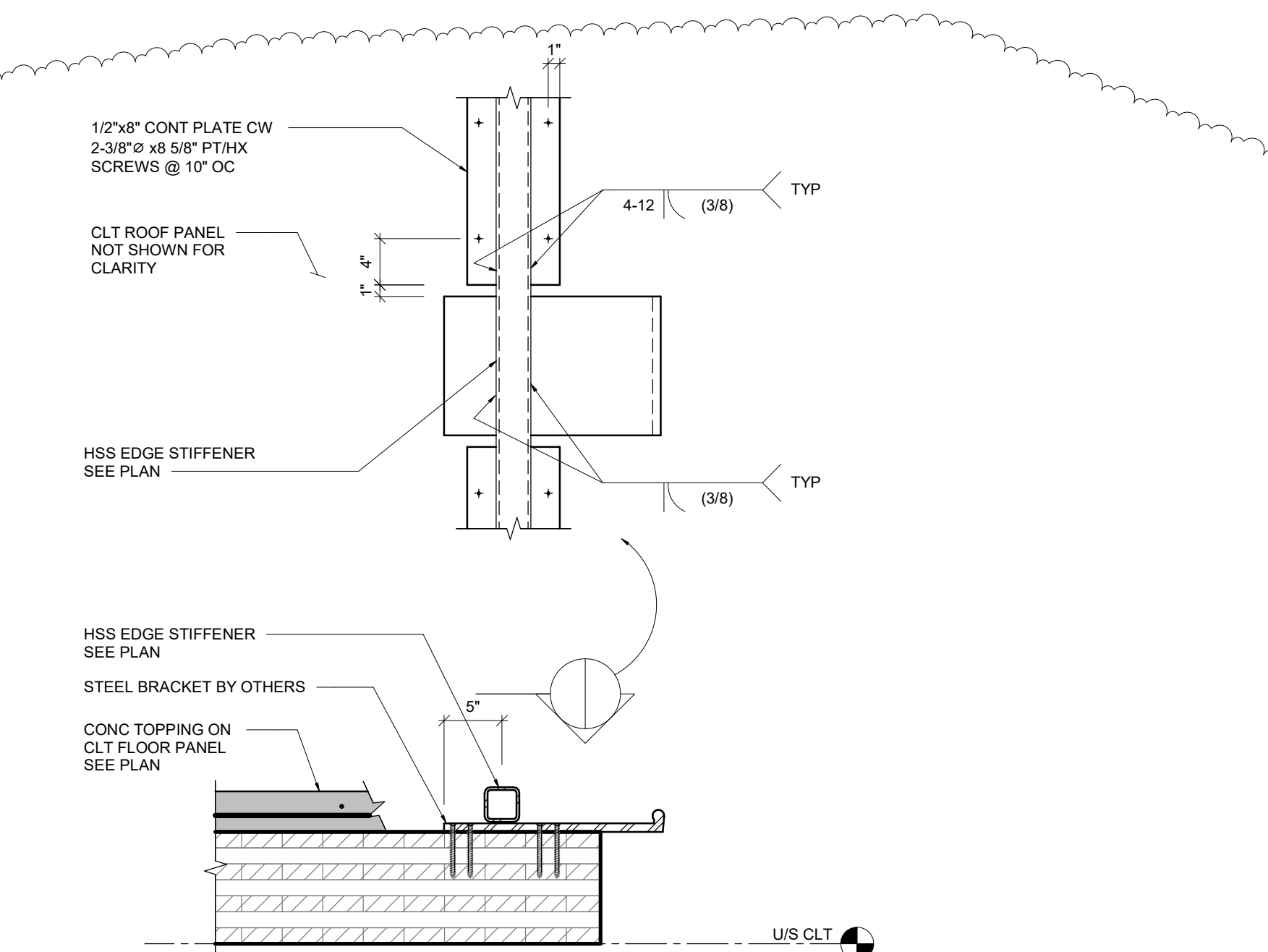
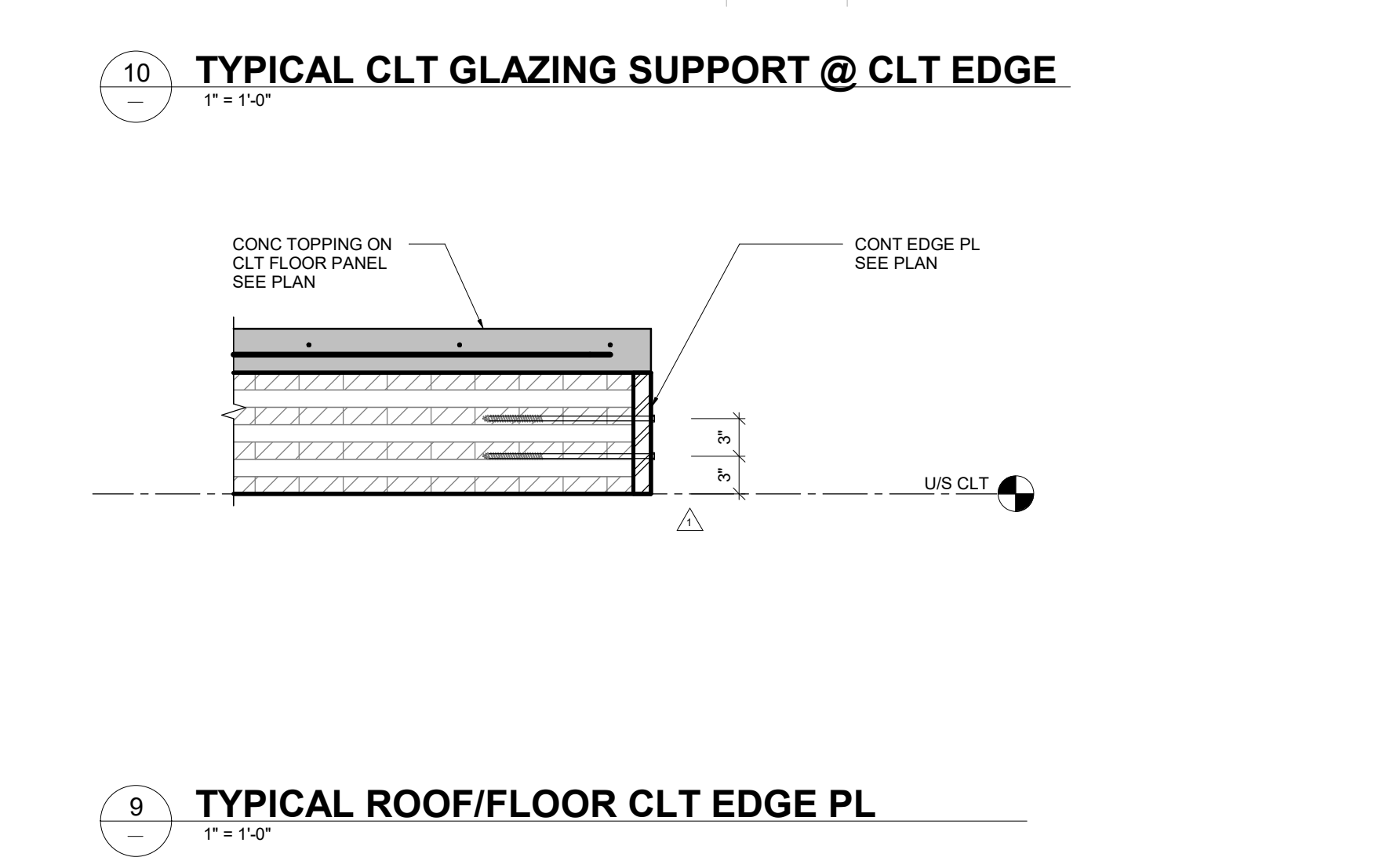
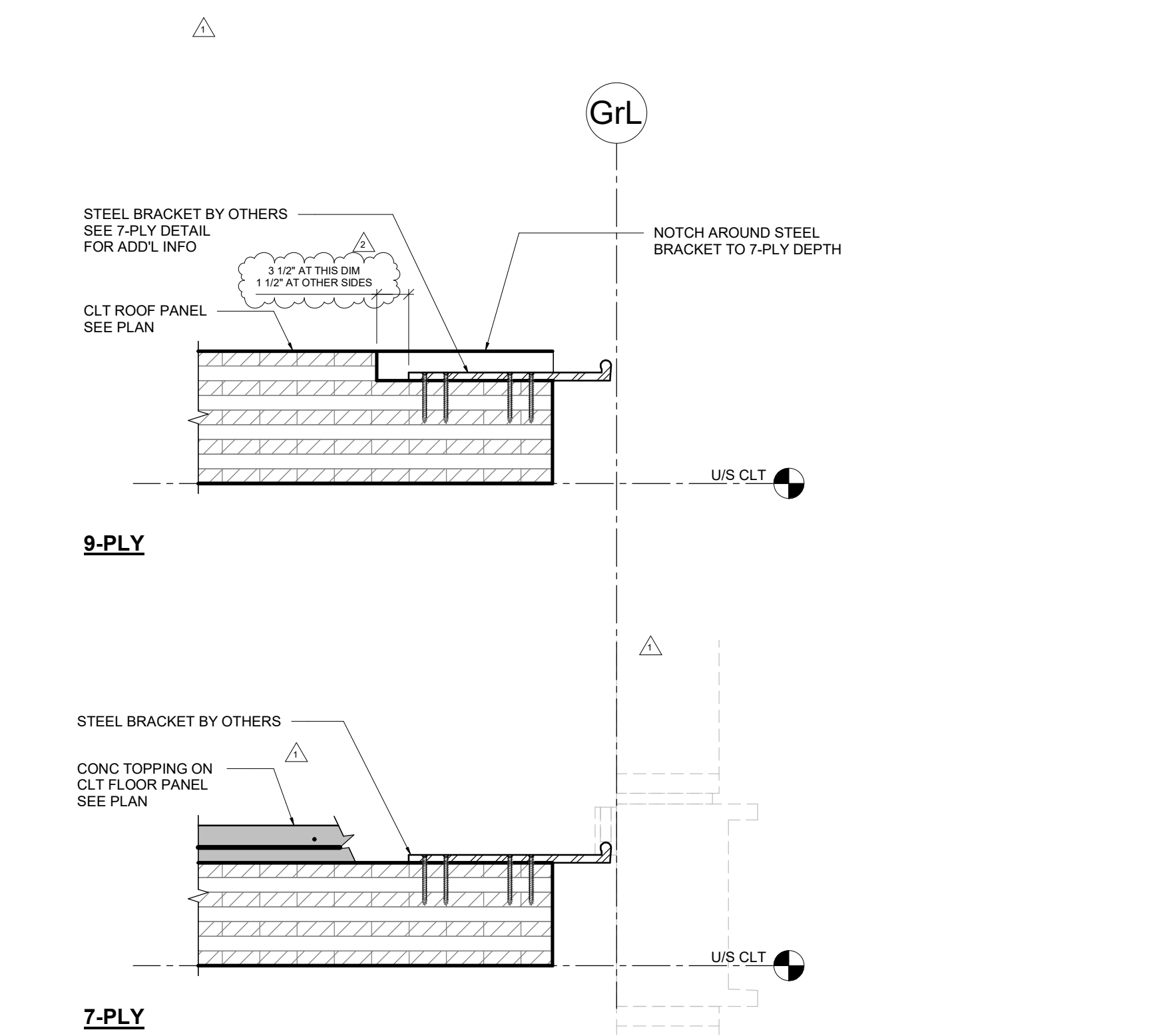
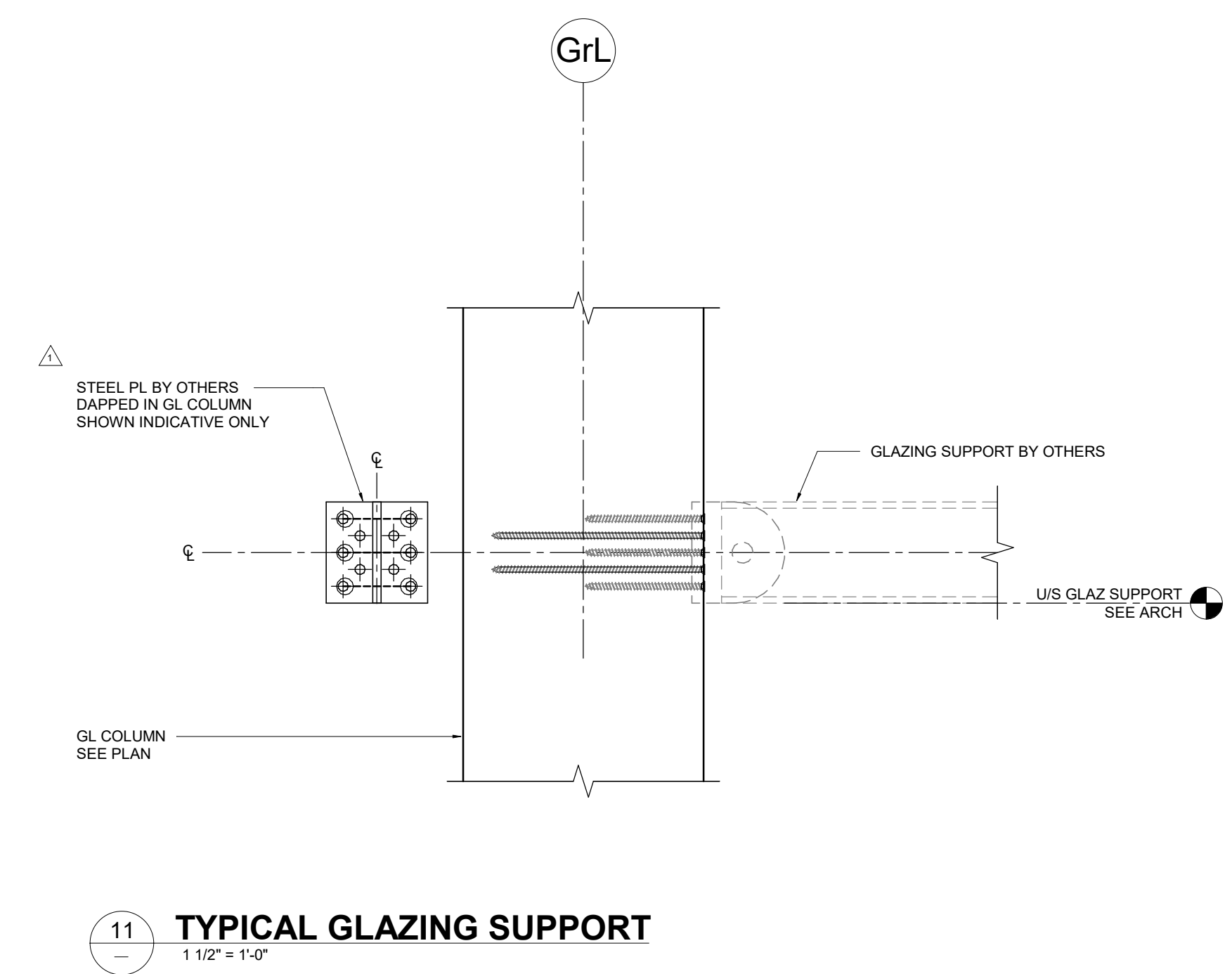
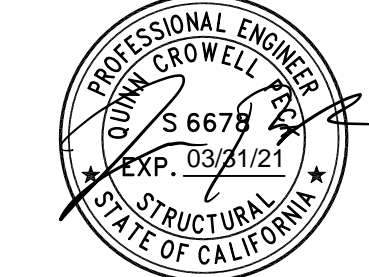
TYPICAL DOUBLE  
GL GIRDER &  
COLUMN CONN  
DETAILS  
**S403**

PERMIT SET

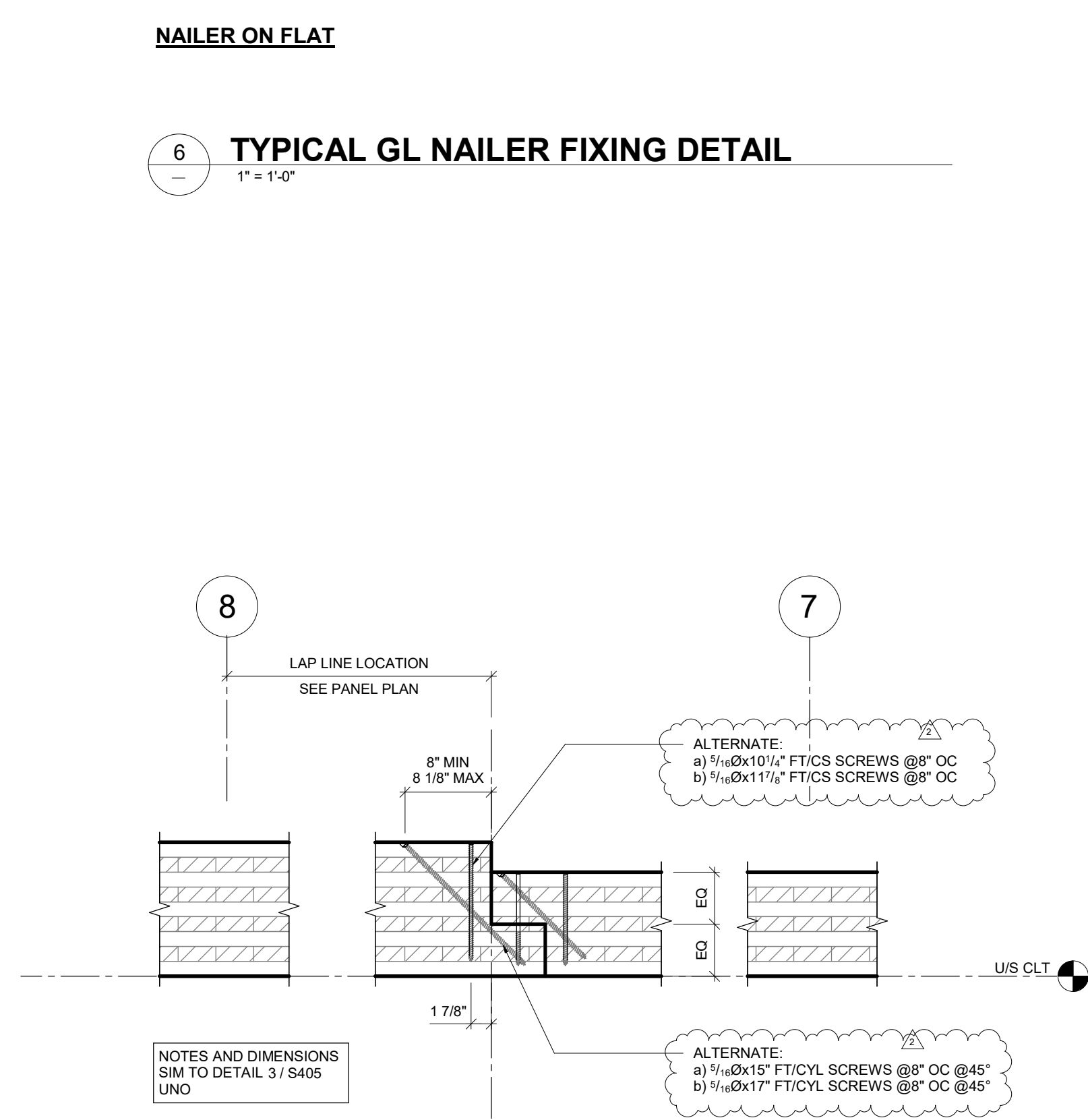
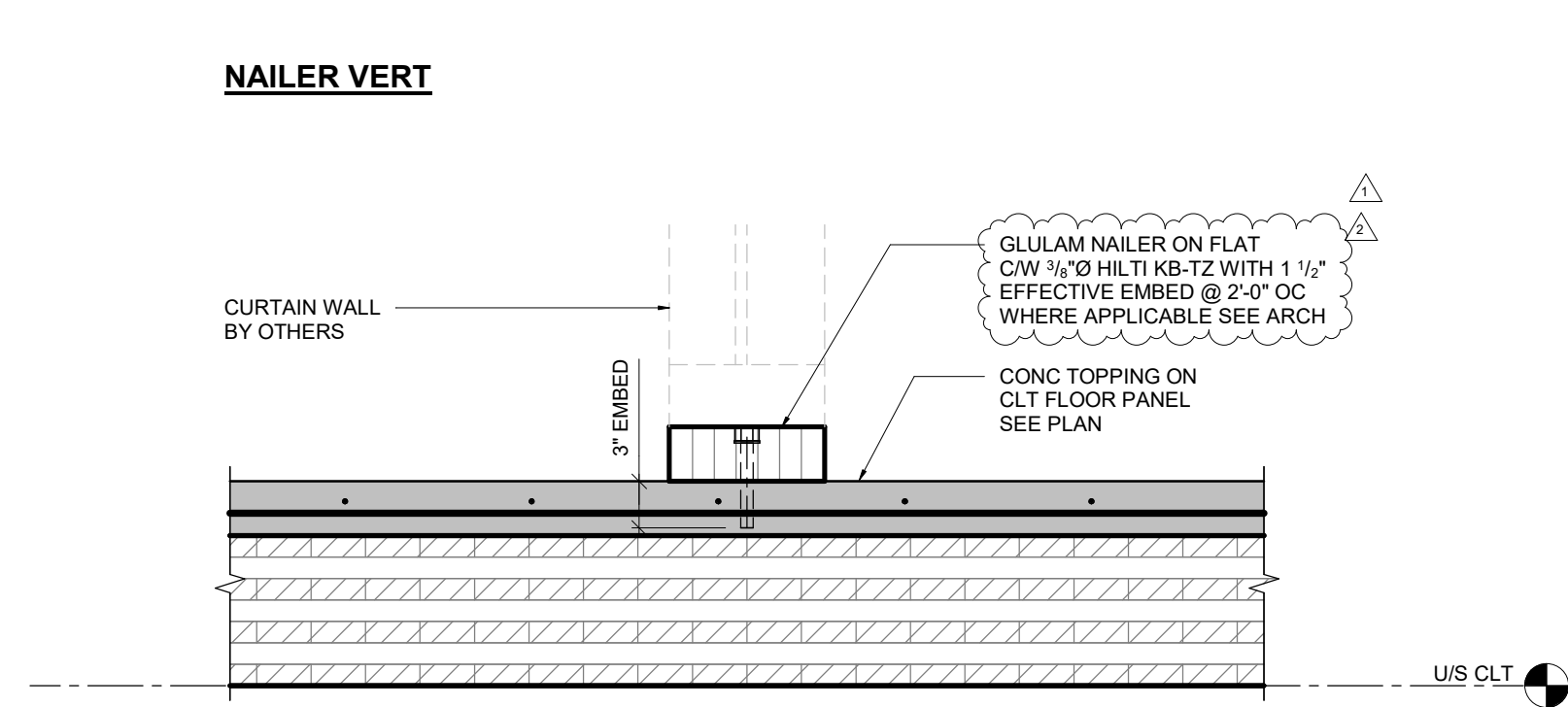
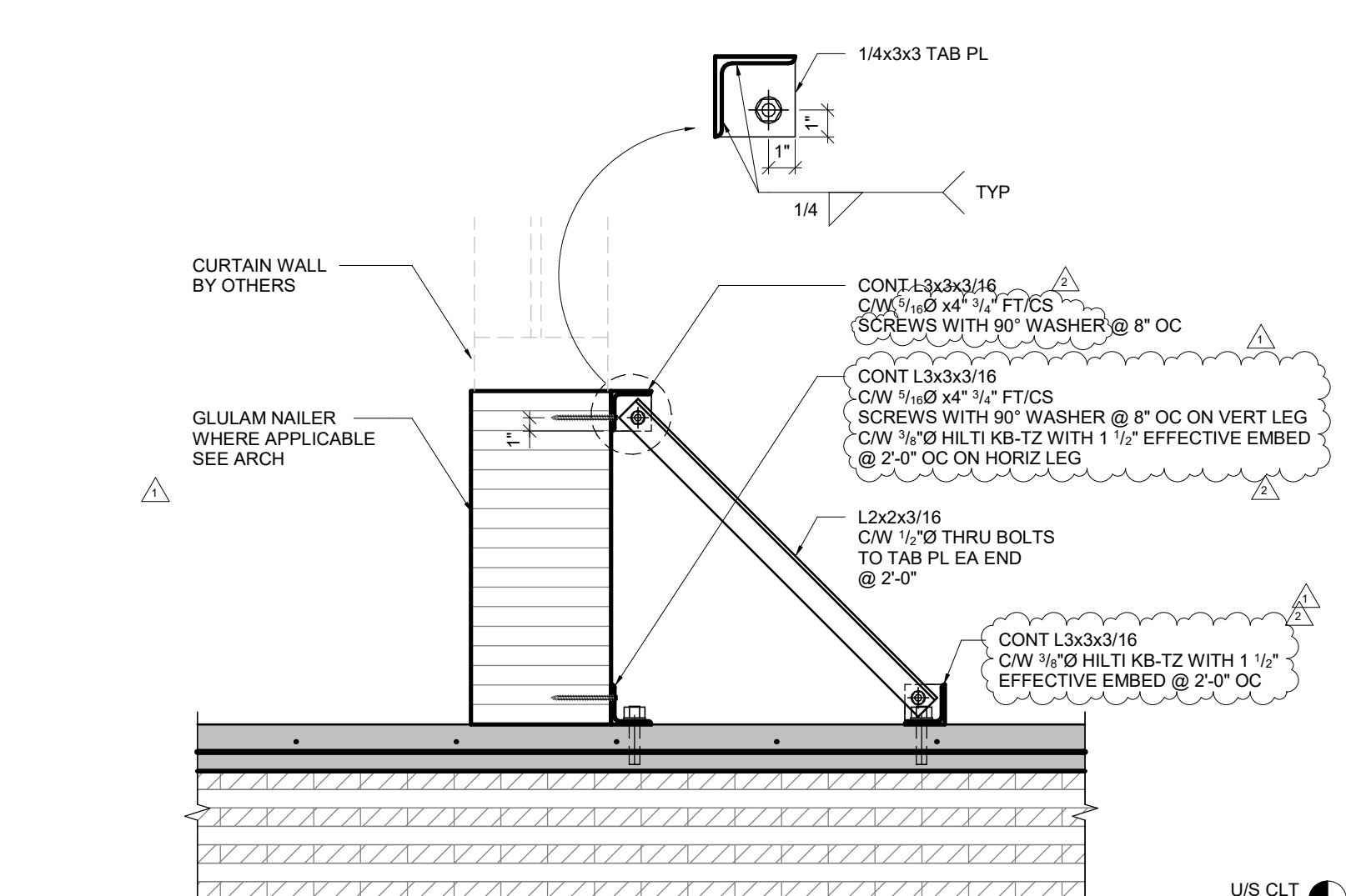




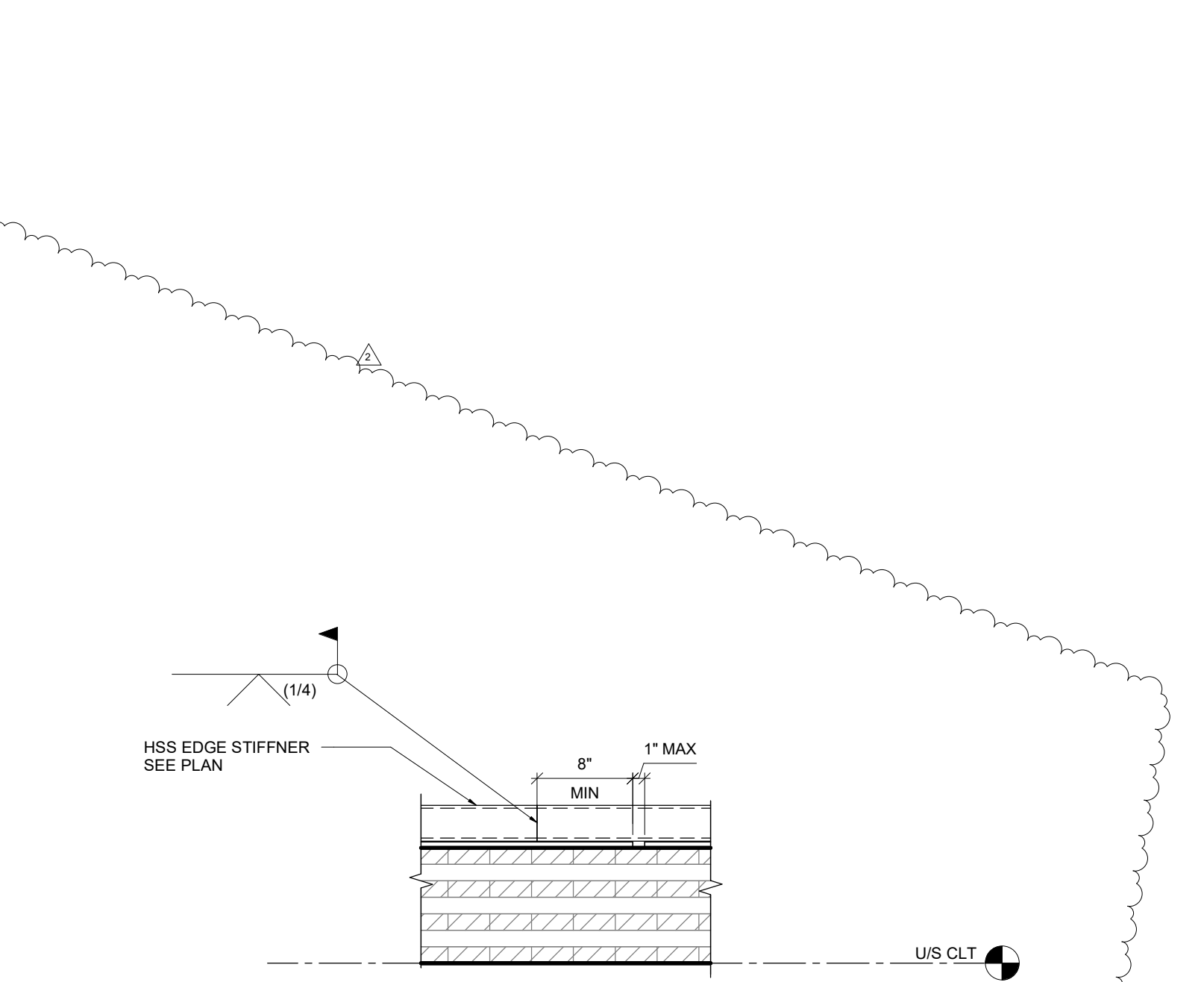




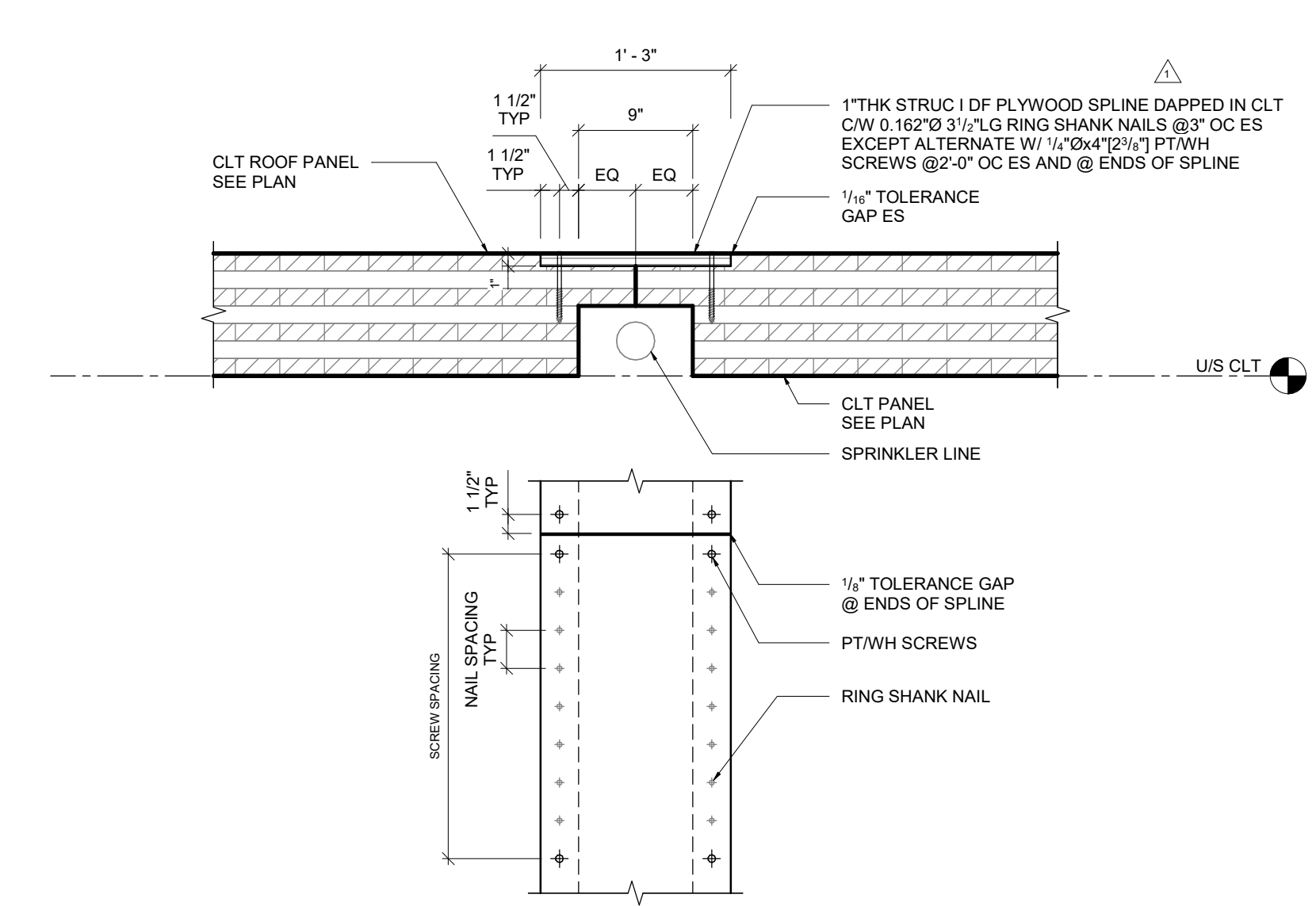
13 NORTH CLT EDGE STIFFENER @ LEVEL 4 & ROOF  
1" = 1'-0"



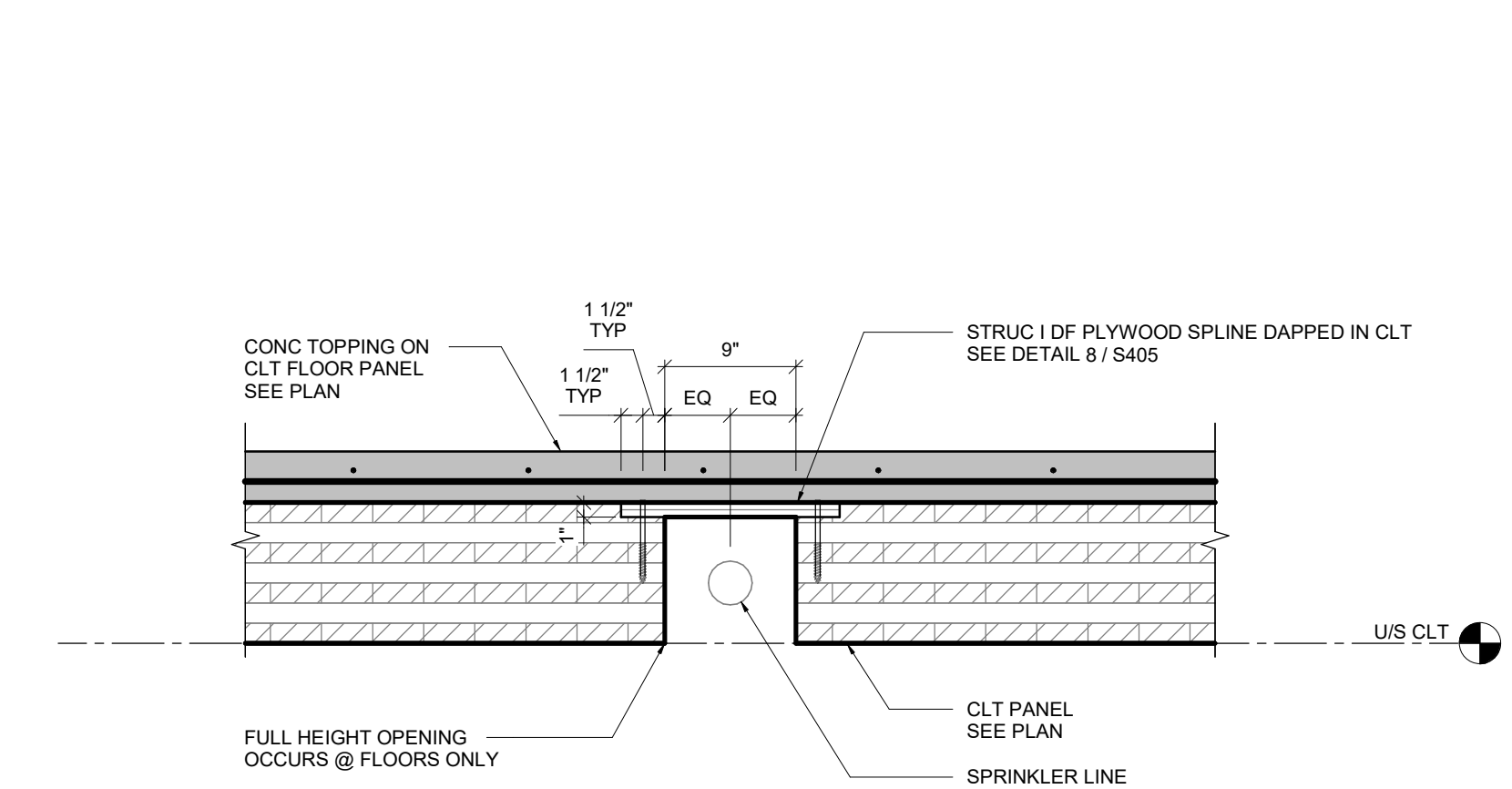
6 TYPICAL GL NAILER FIXING DETAIL  
1" = 1'-0"



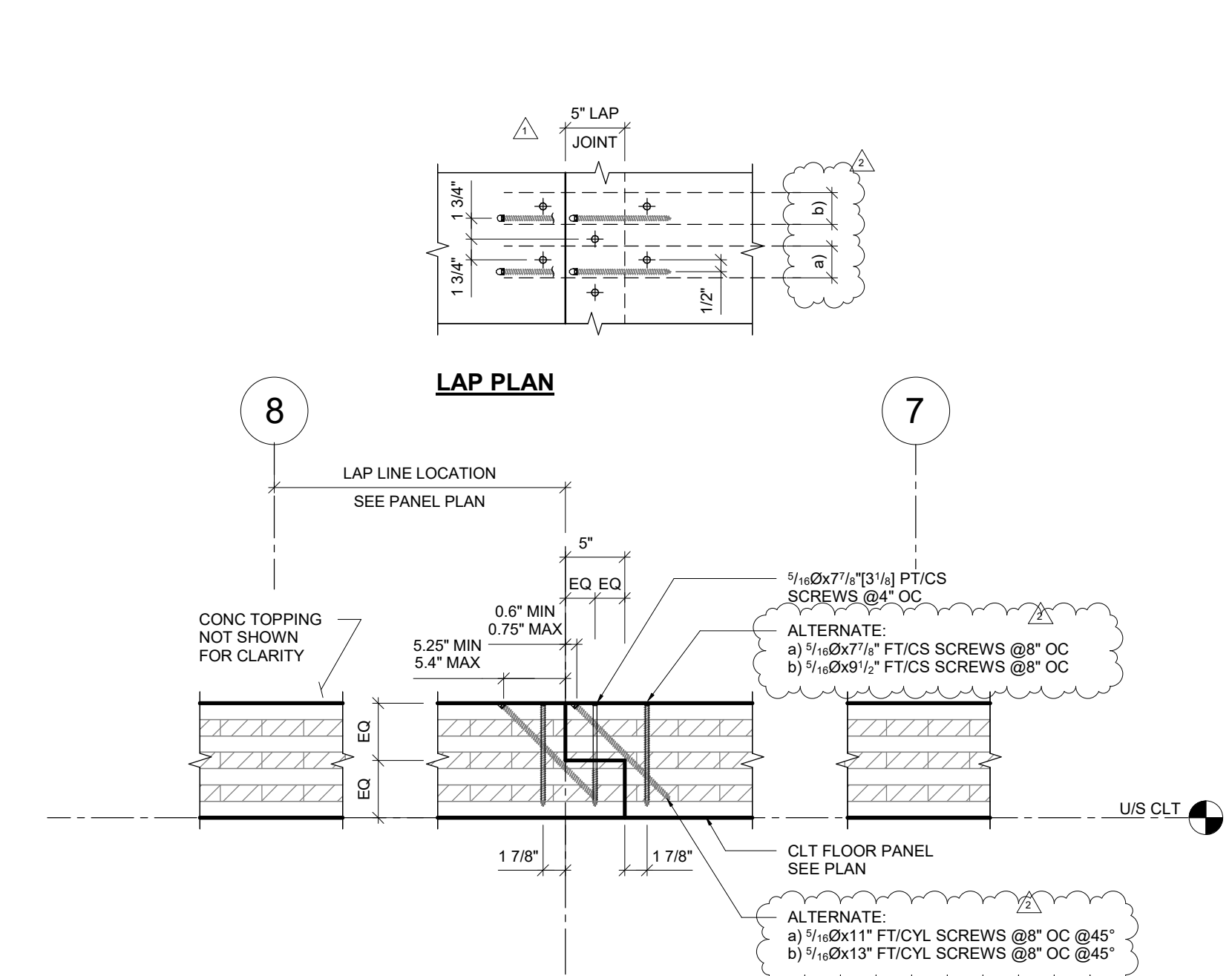
8 TYPICAL ROOF CLT LAP @ PARALLEL SPAN DIR  
1" = 1'-0"



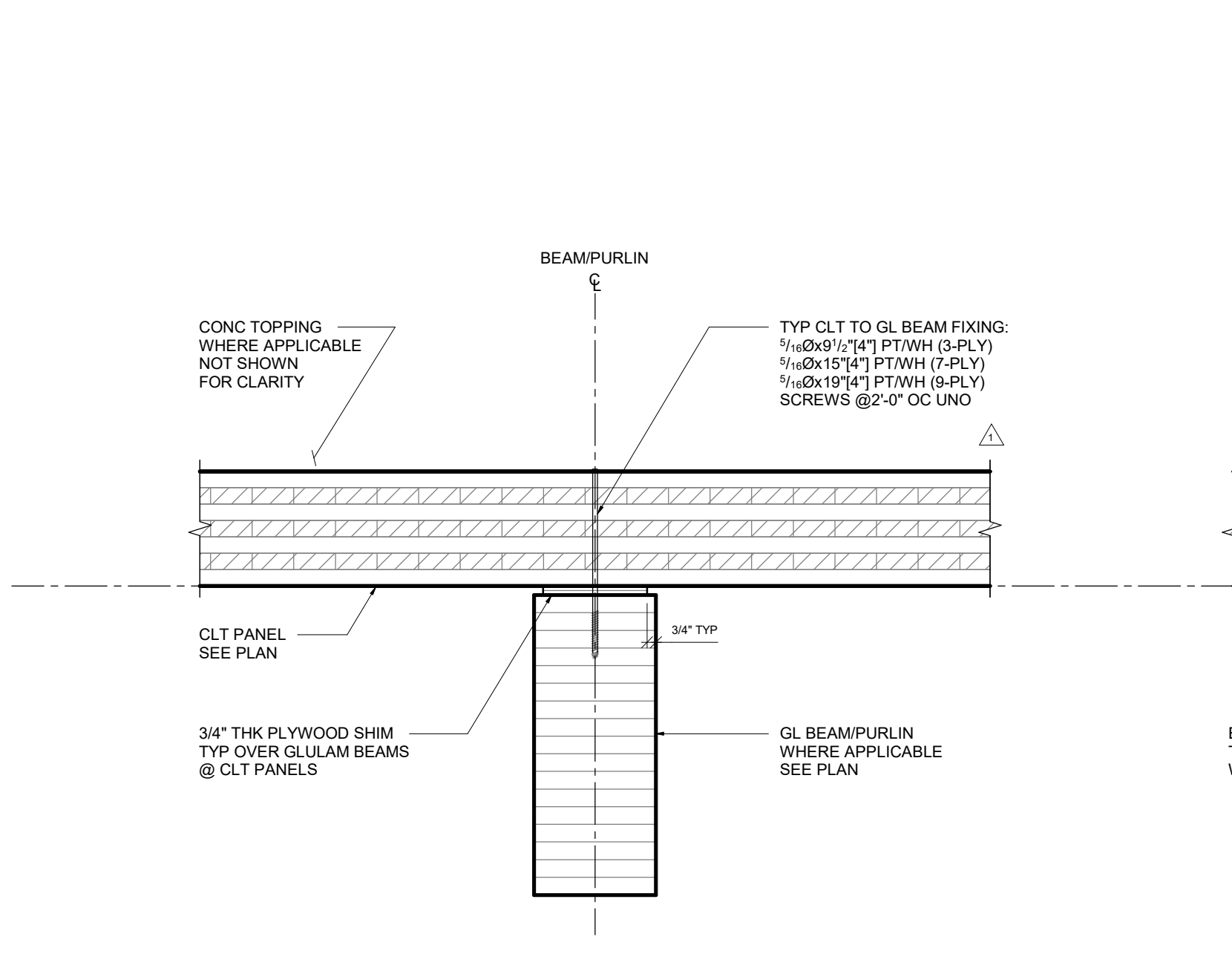
8 TYPICAL ROOF CLT PANEL JOINT CONN @ SPRINKLER RECESS  
1" = 1'-0"



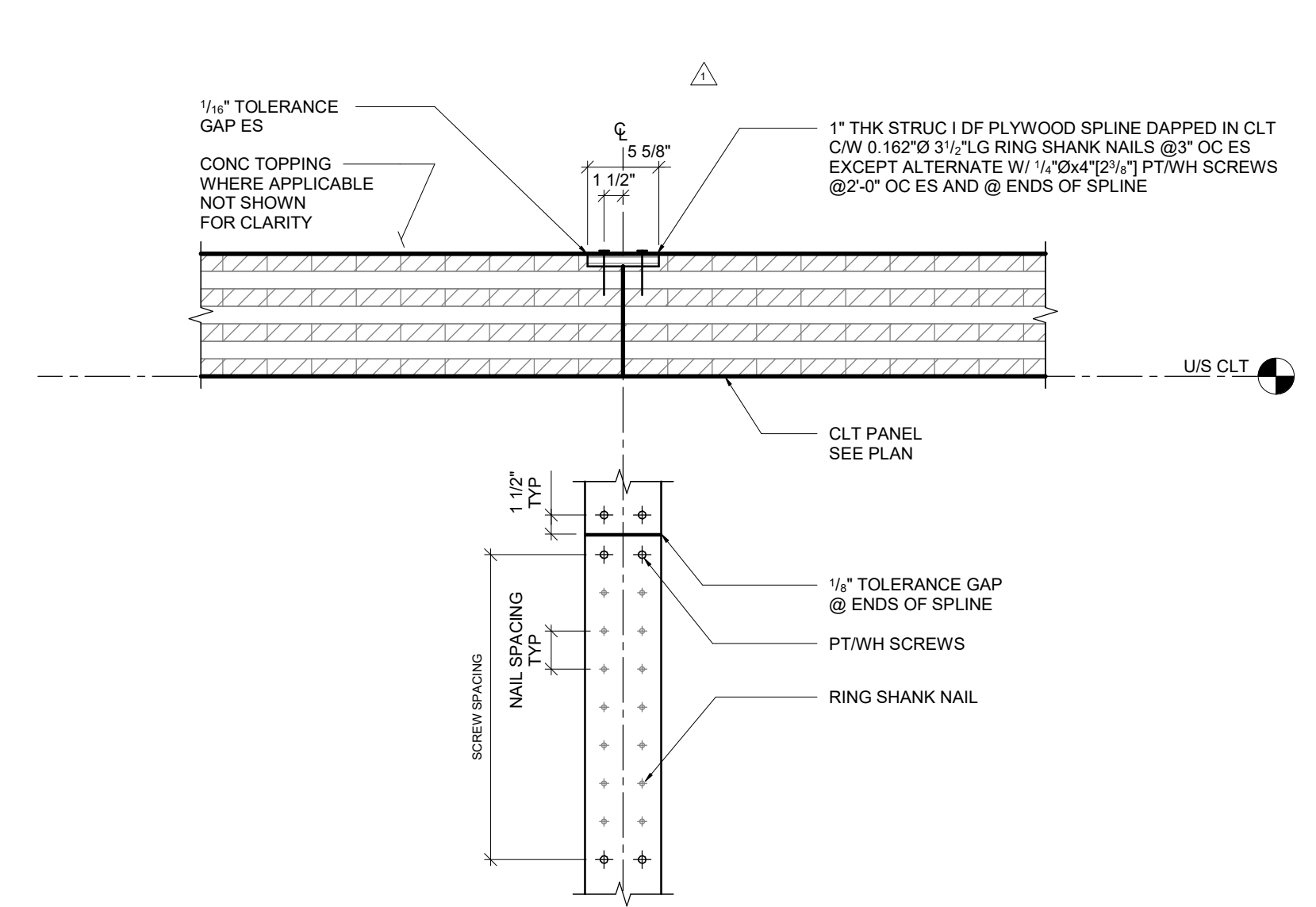
5 TYPICAL FLOOR CLT PANEL JOINT CONN @ SPRINKLER RECESS  
1" = 1'-0"



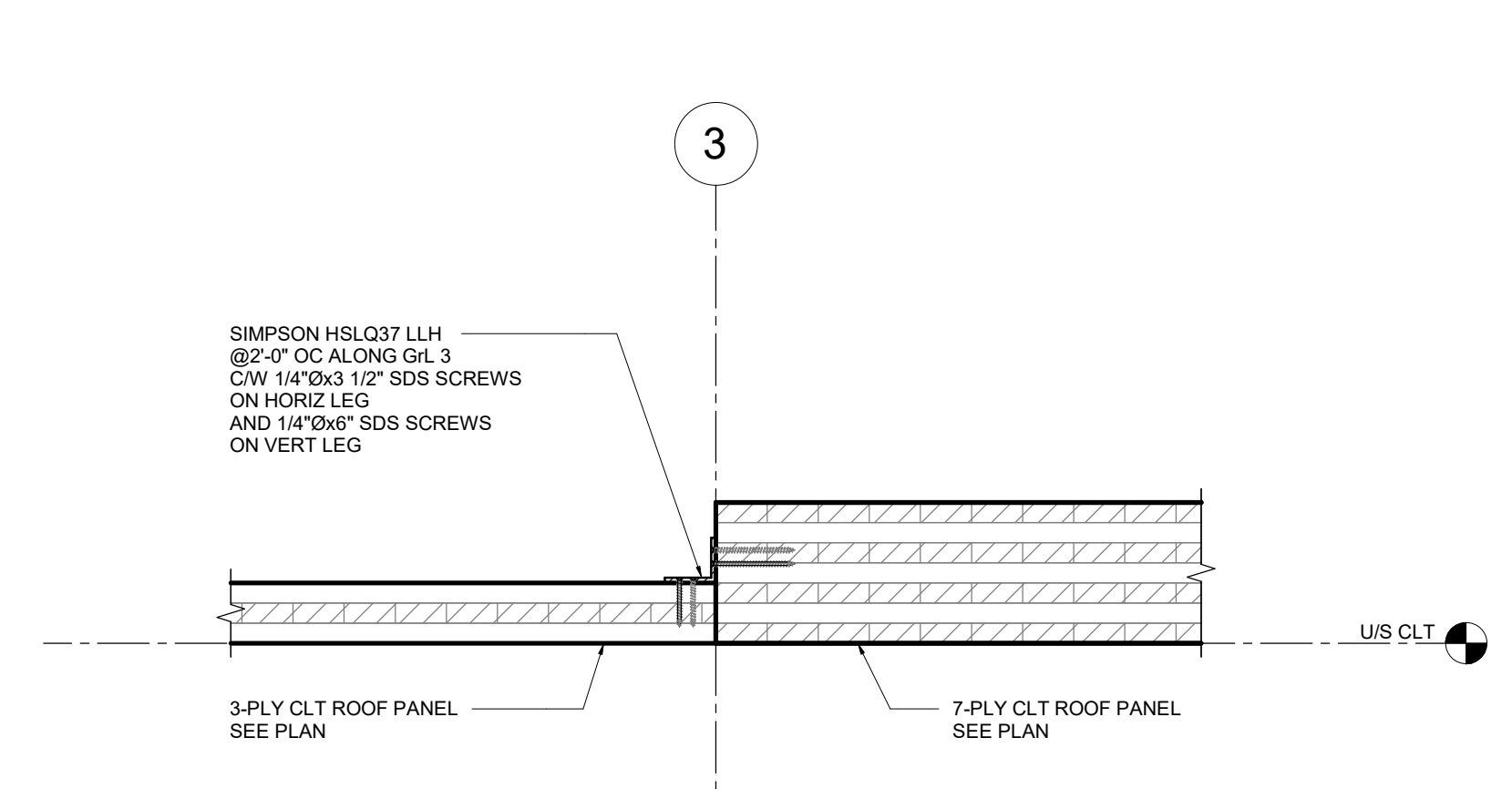
8 TYPICAL FLOOR CLT LAP @ PARALLEL SPAN DIR  
1" = 1'-0"



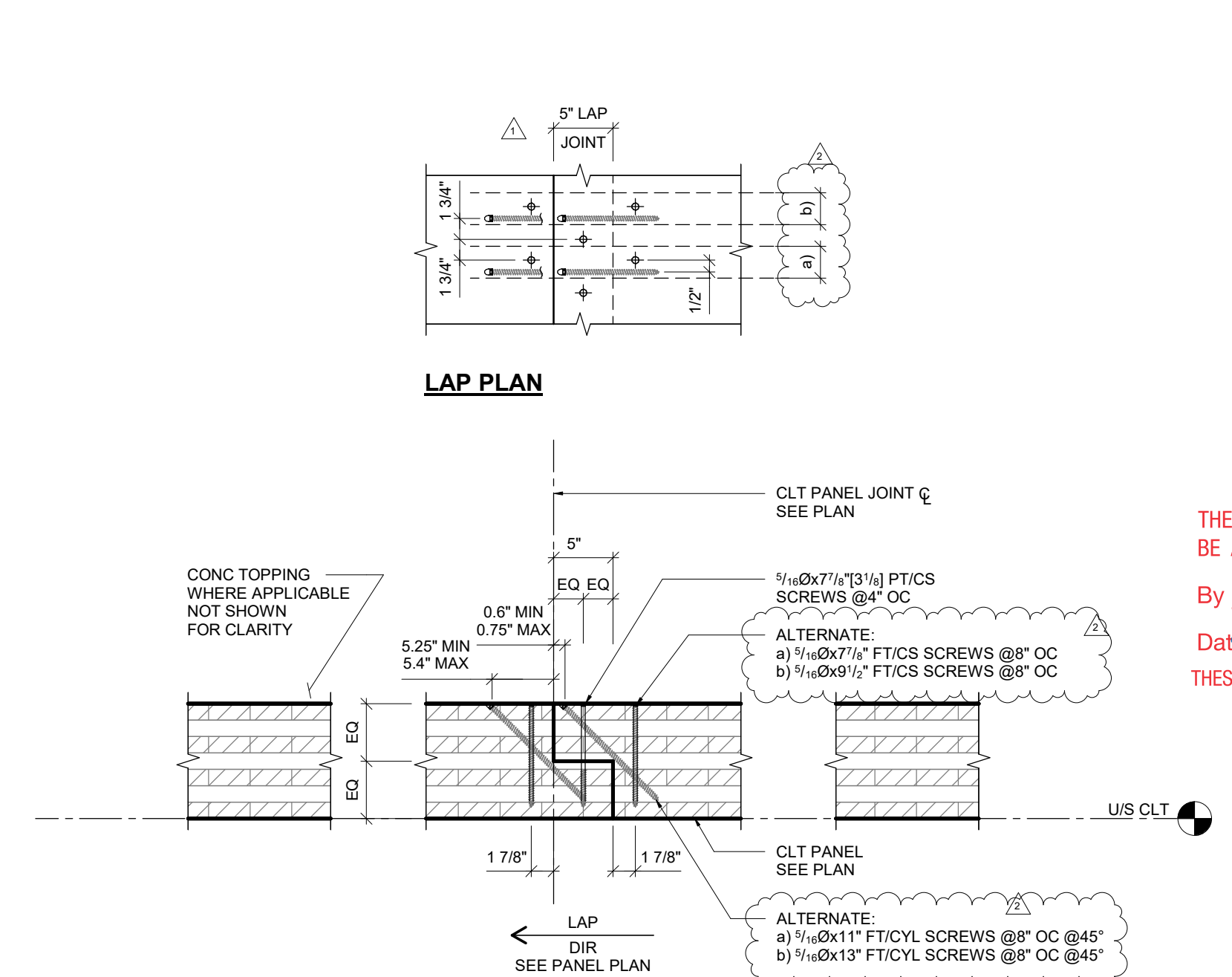
1 TYPICAL CLT TO BEAM CONN DETAIL  
1" = 1'-0"



7 TYPICAL ROOF/FLOOR CLT PANEL JOINT CONN  
1" = 1'-0"



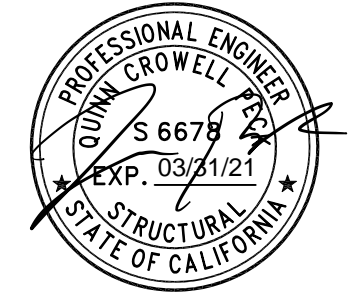
3 TYPICAL 7-PLY TO 3-PLY CLT STEP DETAIL ALONG GrL 3  
1" = 1'-0"



2 TYPICAL ROOF/FLOOR CLT LAP @ PERP SPAN DIR  
1" = 1'-0"

CSG CONSULTANTS, INC.  
THESE PLANS AND DETAILS ARE  
**APPROVED**  
THE APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT, OR A VIOLATION OF ANY CODE OR ORDINANCE.  
By **LOK C. PHIROZE W.**  
Date **7/28/2020**  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS





DETAILS RELOCATED TO S503

**CSG CONSULTANTS, INC.**  
THESE PLANS AND DETAILS ARE

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By [Signature] LOK C, PHIROZE W.,  
YVONNE C

Date 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INS

**1265 Borregas**

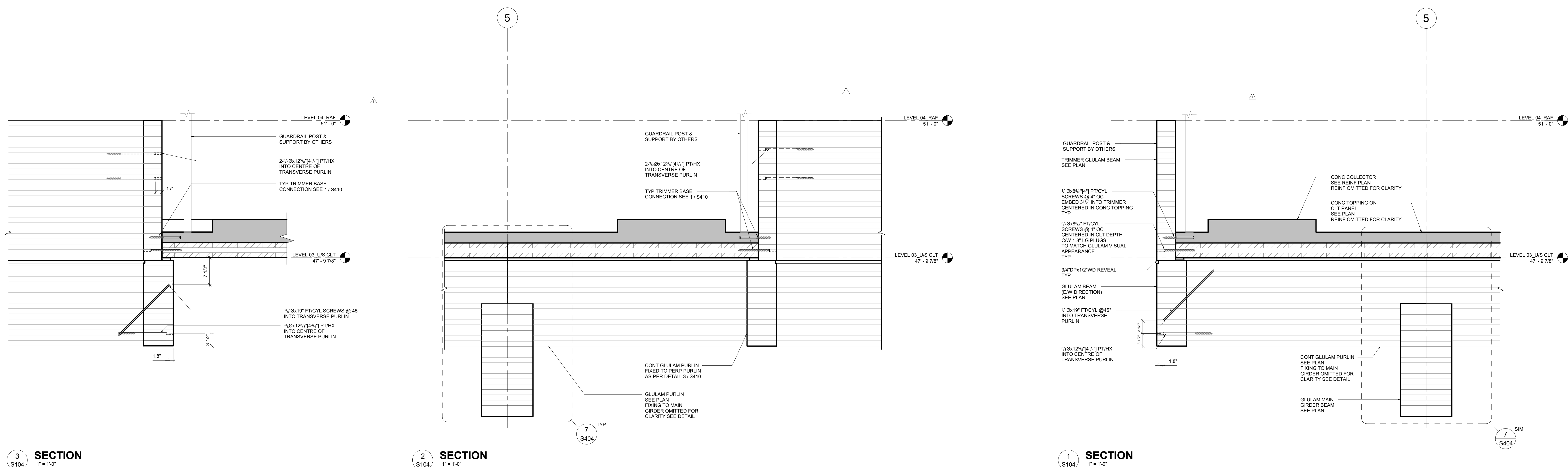
GOOGLE LLC  
1265 BORREGAS AVE.,  
SUNNYVALE CA

| REVISIONS               |            |
|-------------------------|------------|
| ISSUED FOR PERMIT       | 06/01/2020 |
| 1 PLAN CHECK RESPONSE 1 | 09/03/2020 |

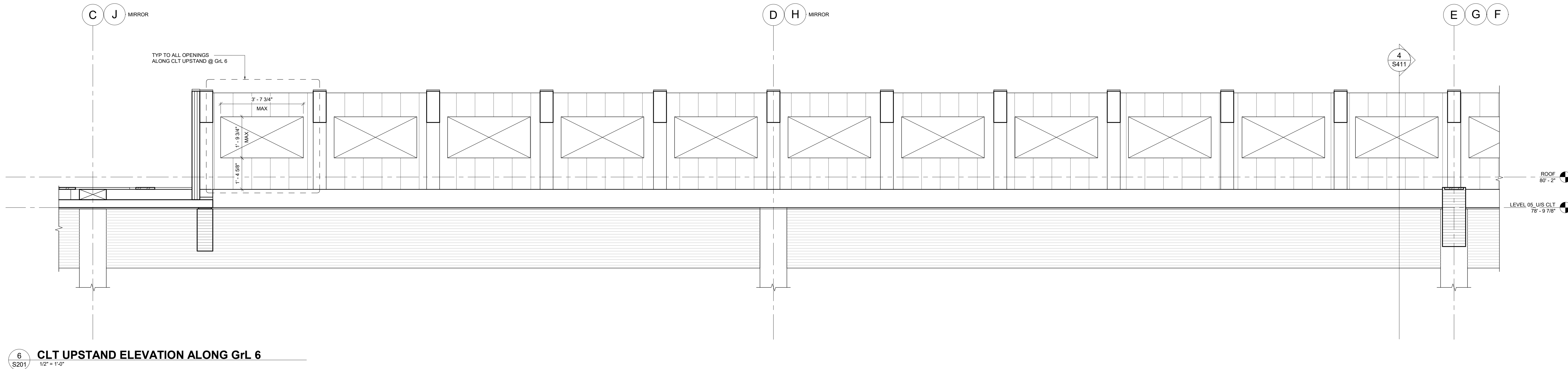
CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

WOOD DETAILS  
**S410**

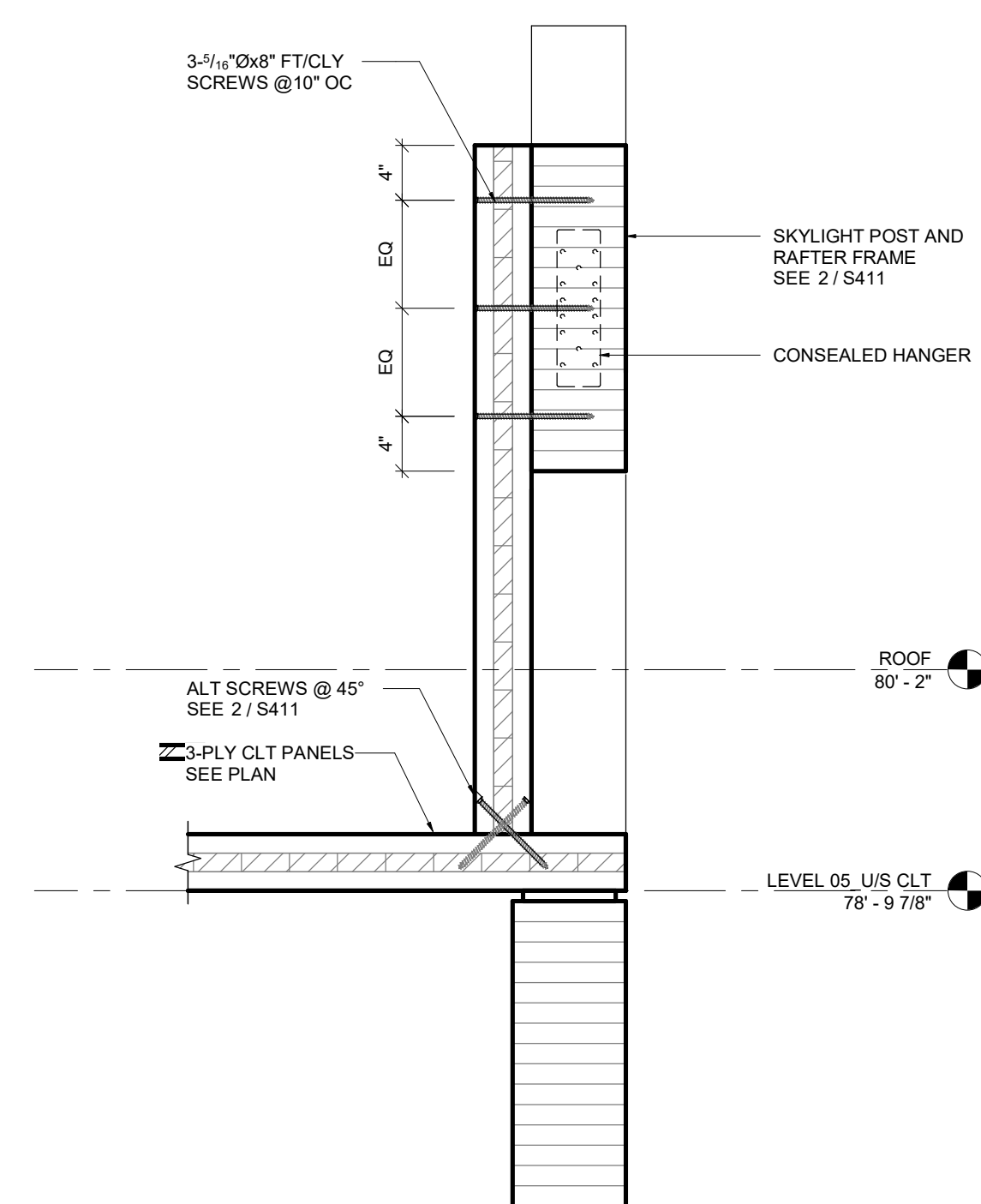
PERMIT SET



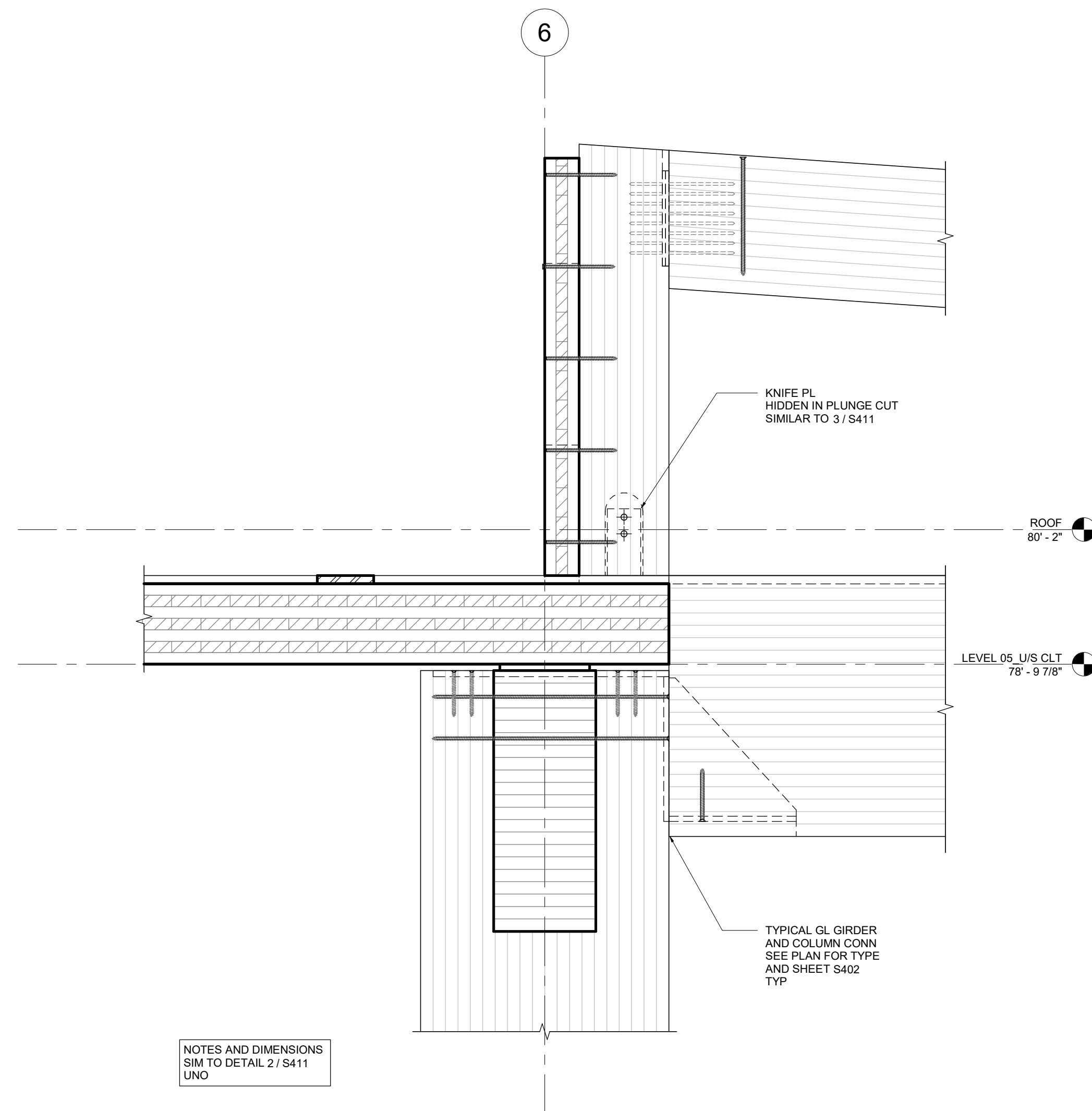




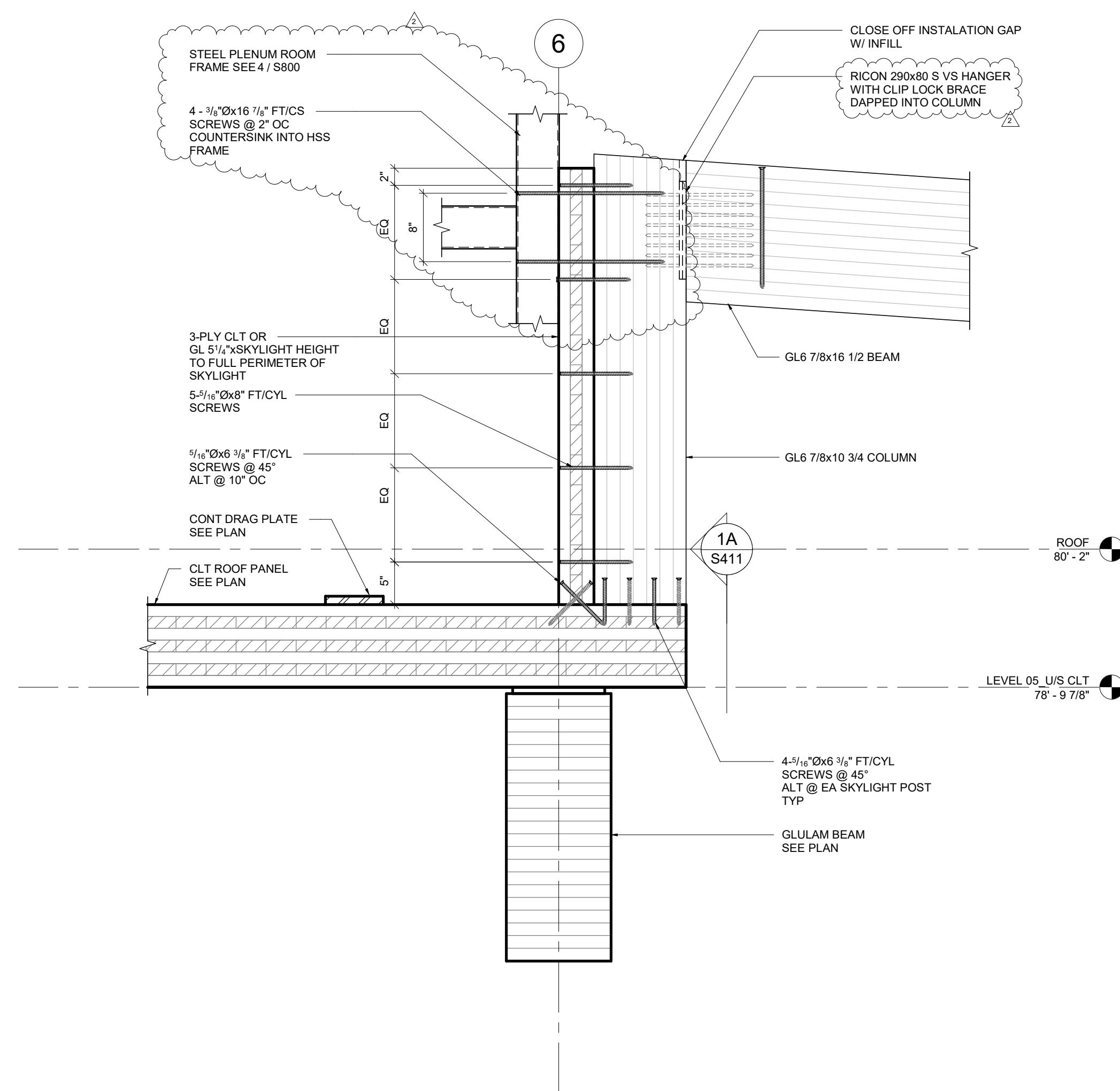
6 CLT UPSTAND ELEVATION ALONG GrL 6  
1/2" = 1'-0"



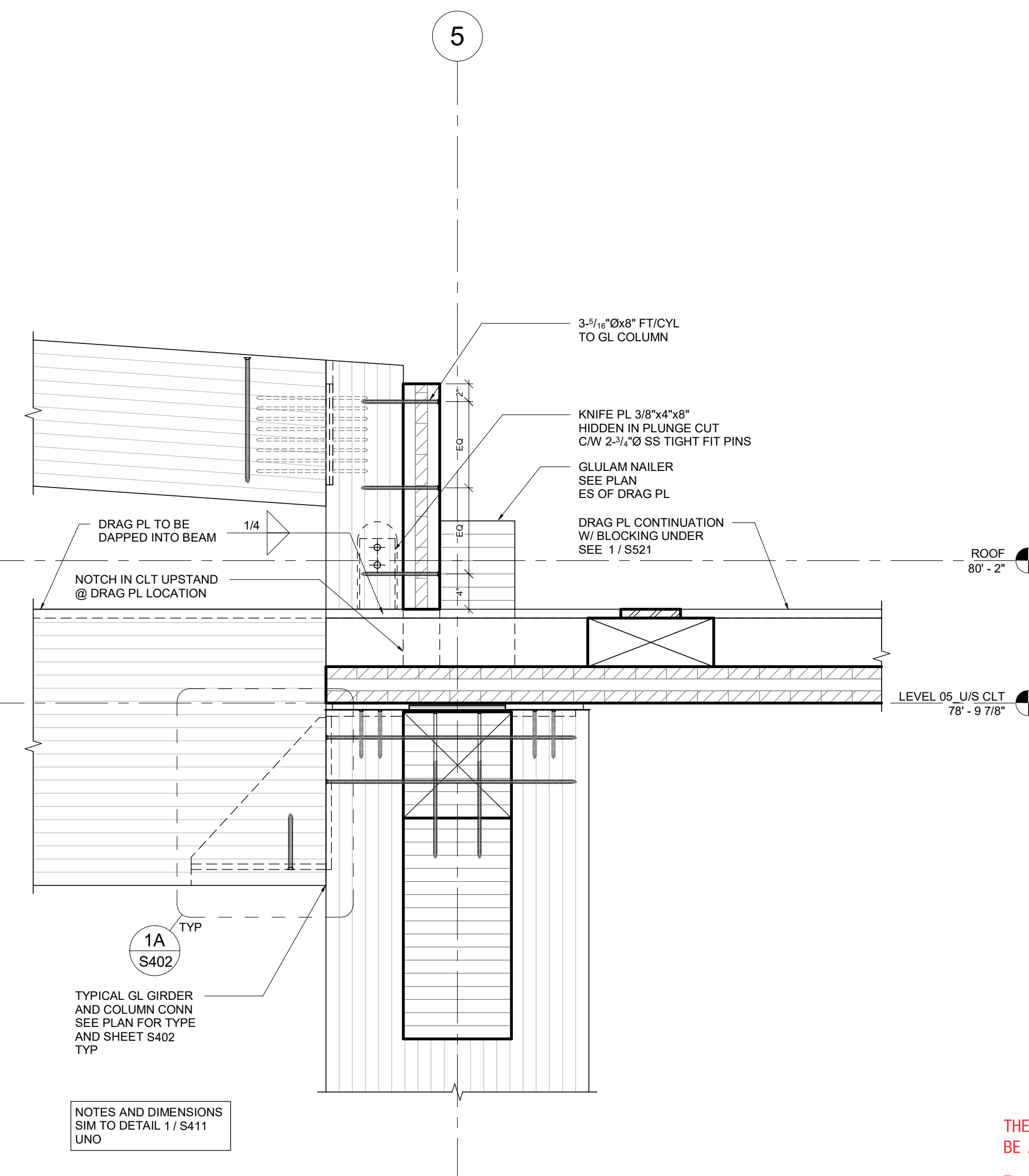
5 DETAIL  
S106 1" = 1'-0"



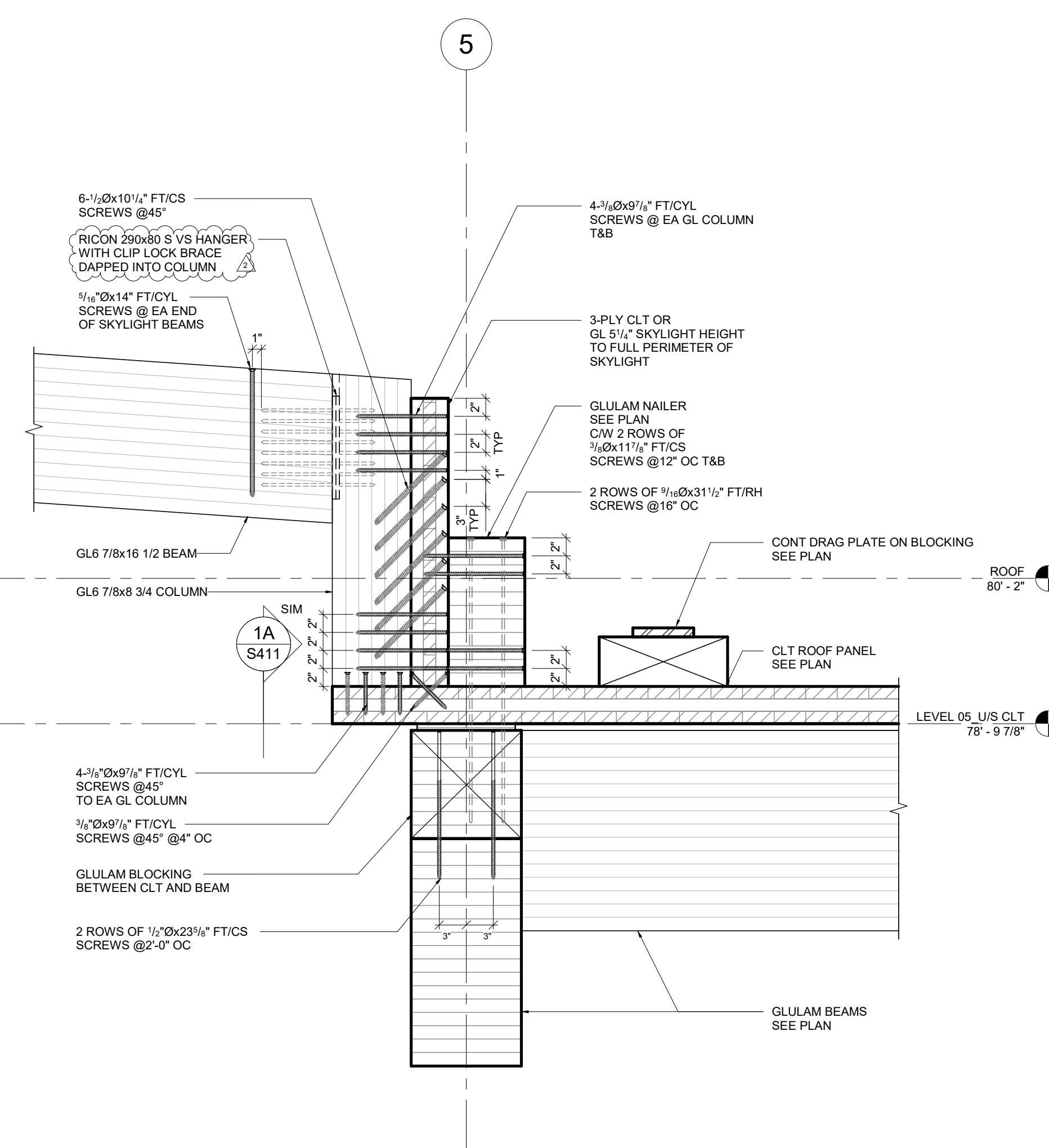
4 CANOPY SUPPORT FRAME SOUTH FIXING  
@ GrL E & G  
S106 1" = 1'-0"



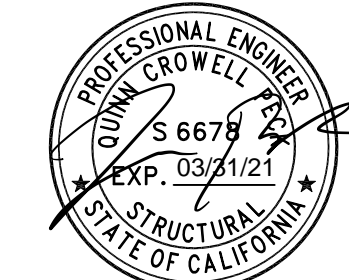
2 TYP CANOPY SUPPORT FRAME SOUTH FIXING  
S106 1" = 1'-0"



3 CANOPY SUPPORT FRAME NORTH FIXING  
@ GrL E & G  
S106 1" = 1'-0"



1 TYP CANOPY SUPPORT FRAME NORTH FIXING  
S106 1" = 1'-0"



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By: YVONNE C. PHIROZE  
Date: 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

GOOGLE LLC  
1265 BORREGAS AVE  
SUNNYVALE CA

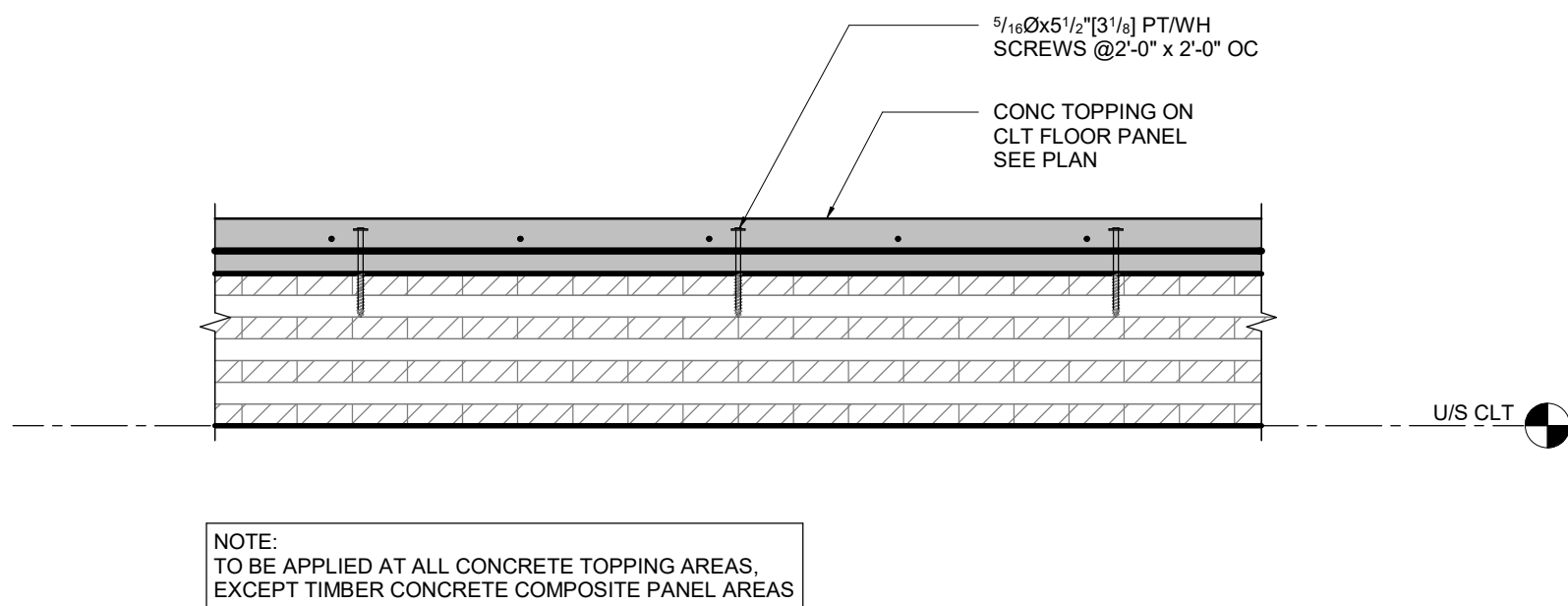
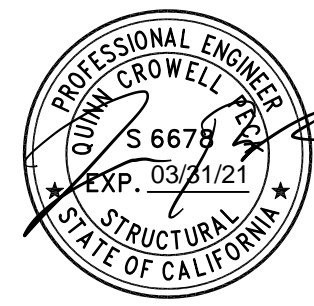
| REVISIONS               | ISSUED FOR PERMIT | 06/11/2020 |
|-------------------------|-------------------|------------|
| 1 PLAN CHECK RESPONSE 1 | 09/03/2020        |            |
| 2 PLAN CHECK RESPONSE 2 | 08/05/2020        |            |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

WOOD DETAILS  
**S411**

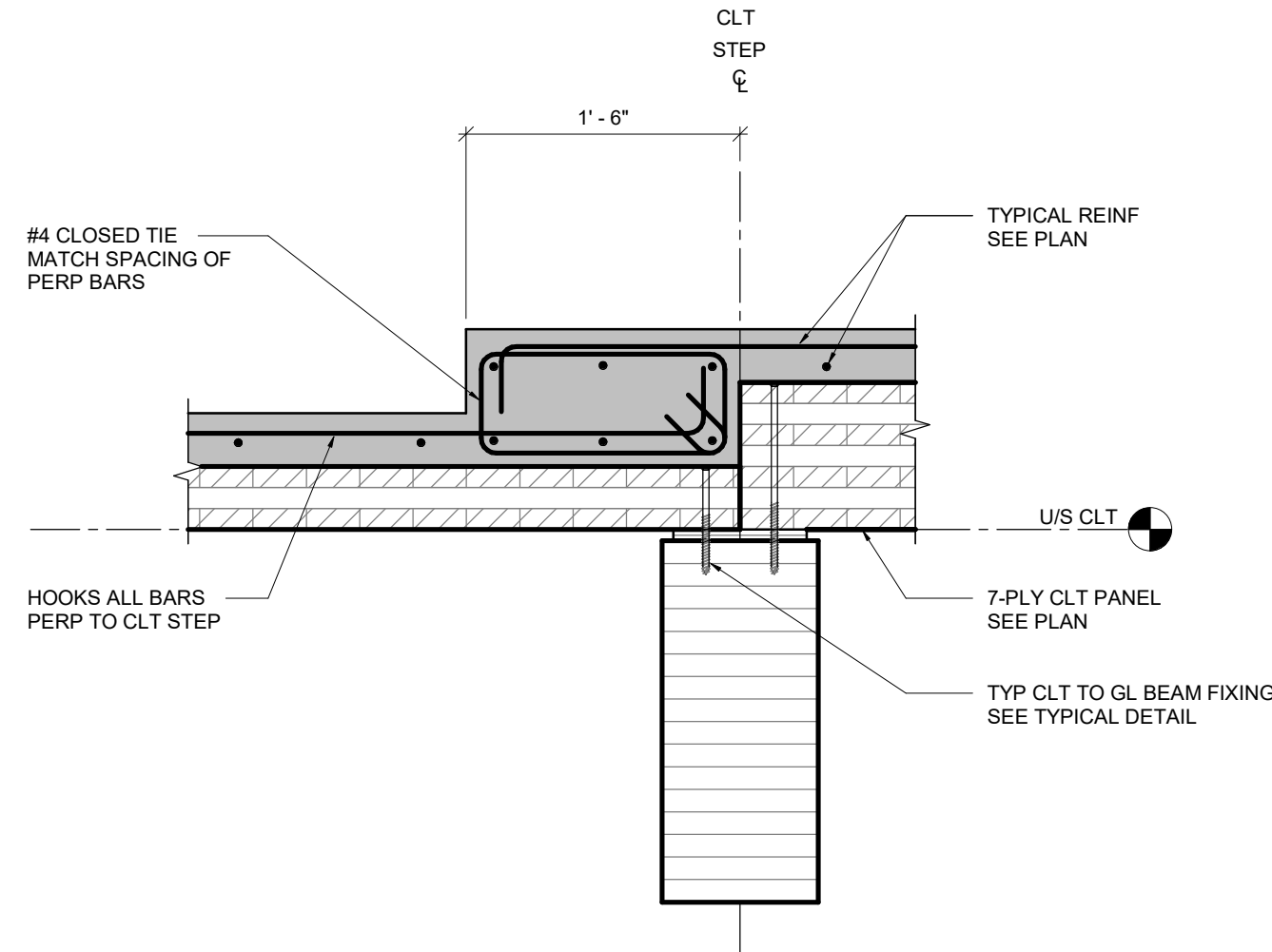
PERMIT SET





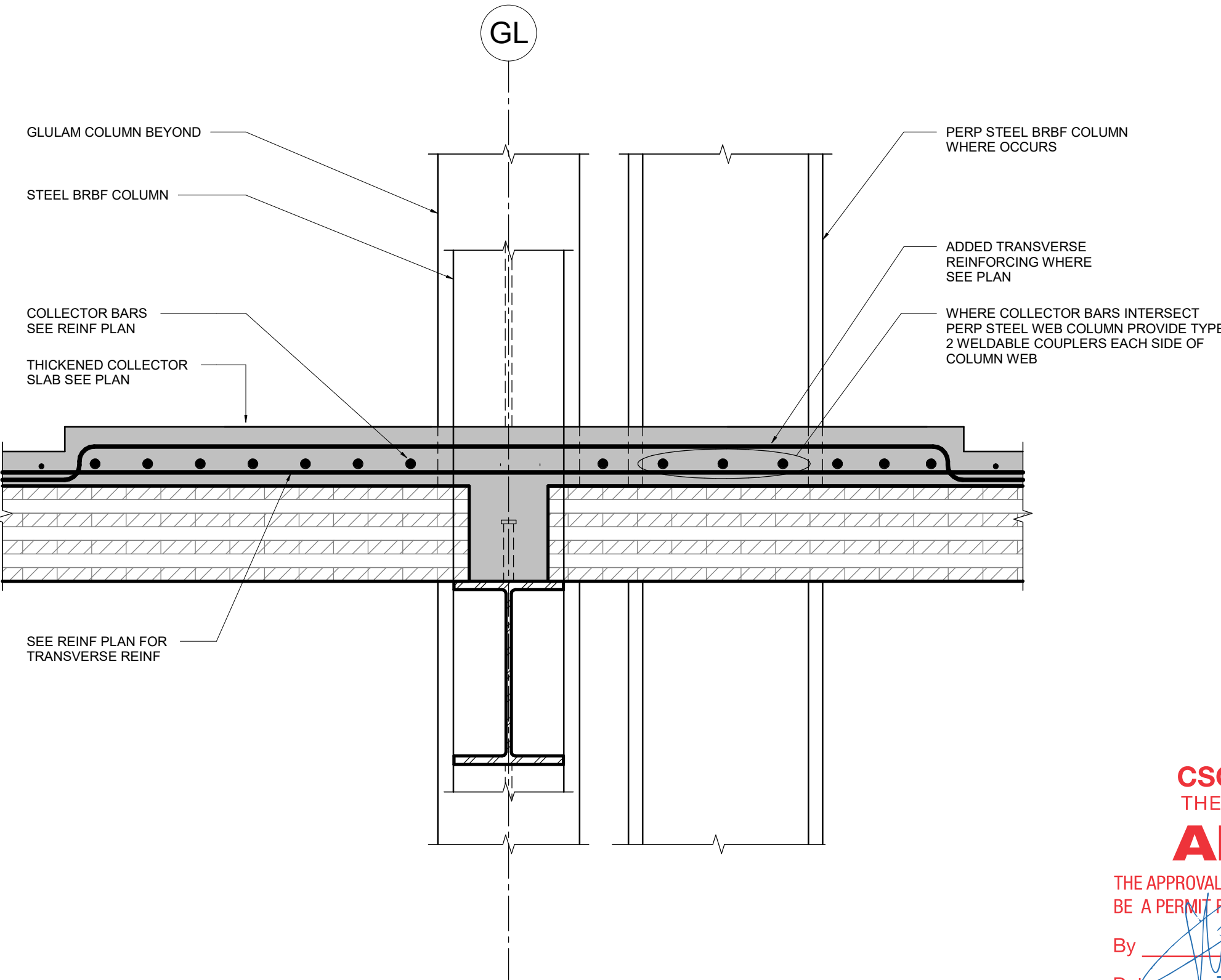
**TYPICAL FLOOR CLT CONC TOPPING SHEAR CONNECTION**

5  
1" = 1'-0"



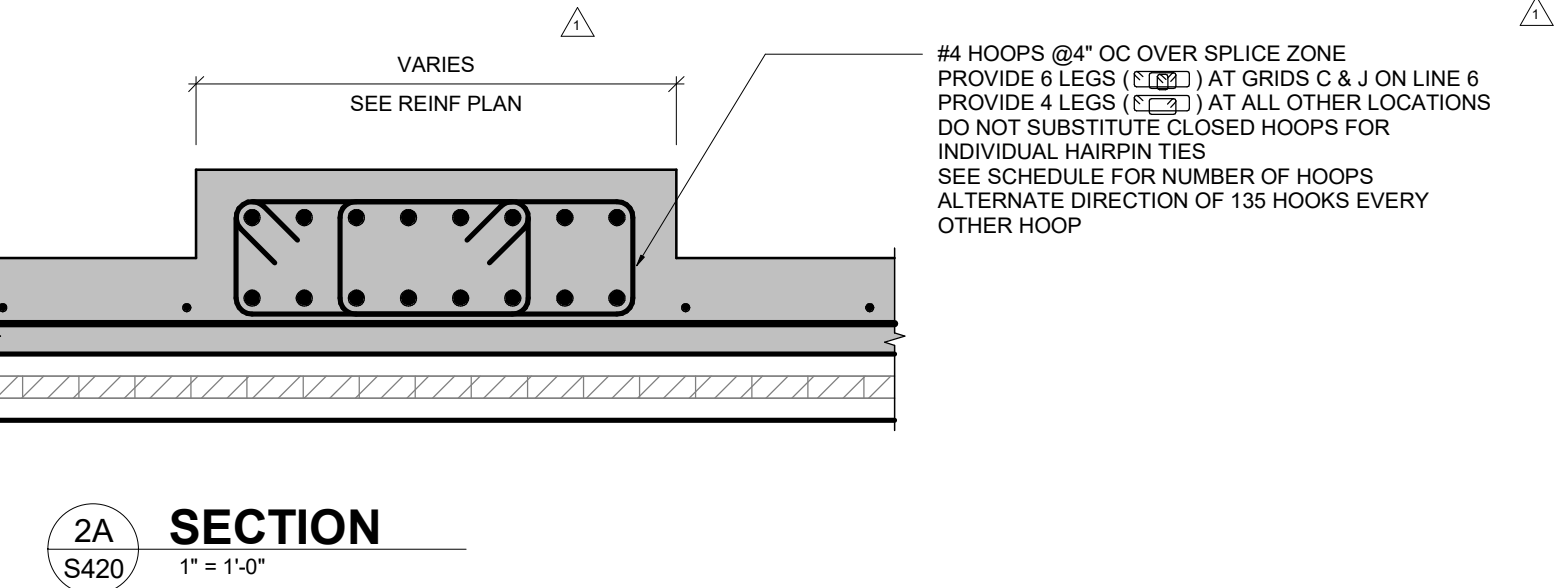
**TYPICAL CLT TOPPING STEP**

4  
S102  
1" = 1'-0"



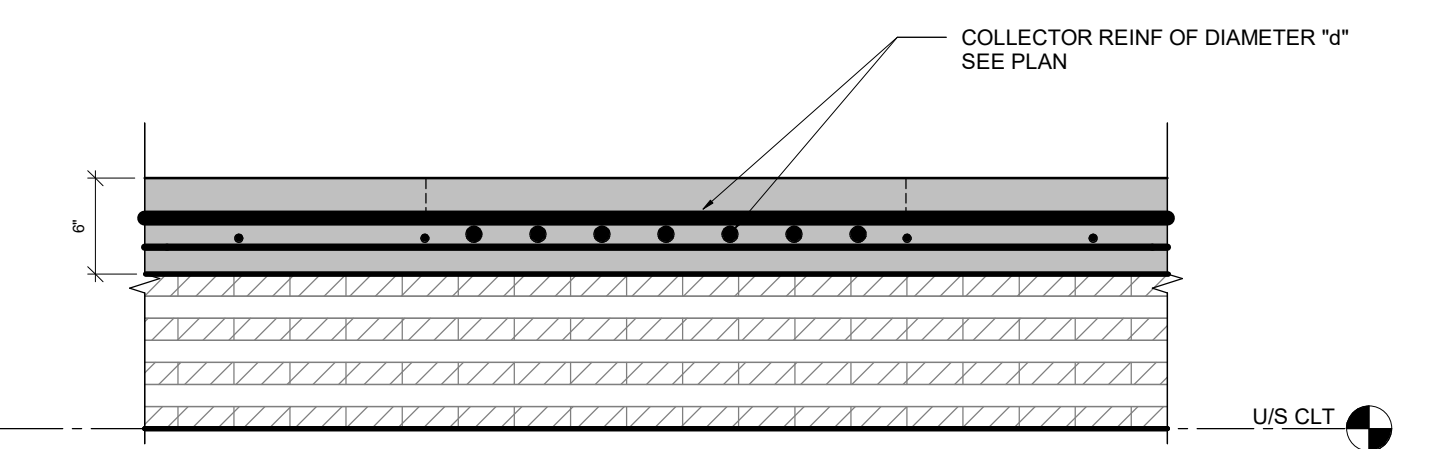
**TYPICAL COLLECTOR SLAB AT COLUMNS**

3  
S112  
1" = 1'-0"



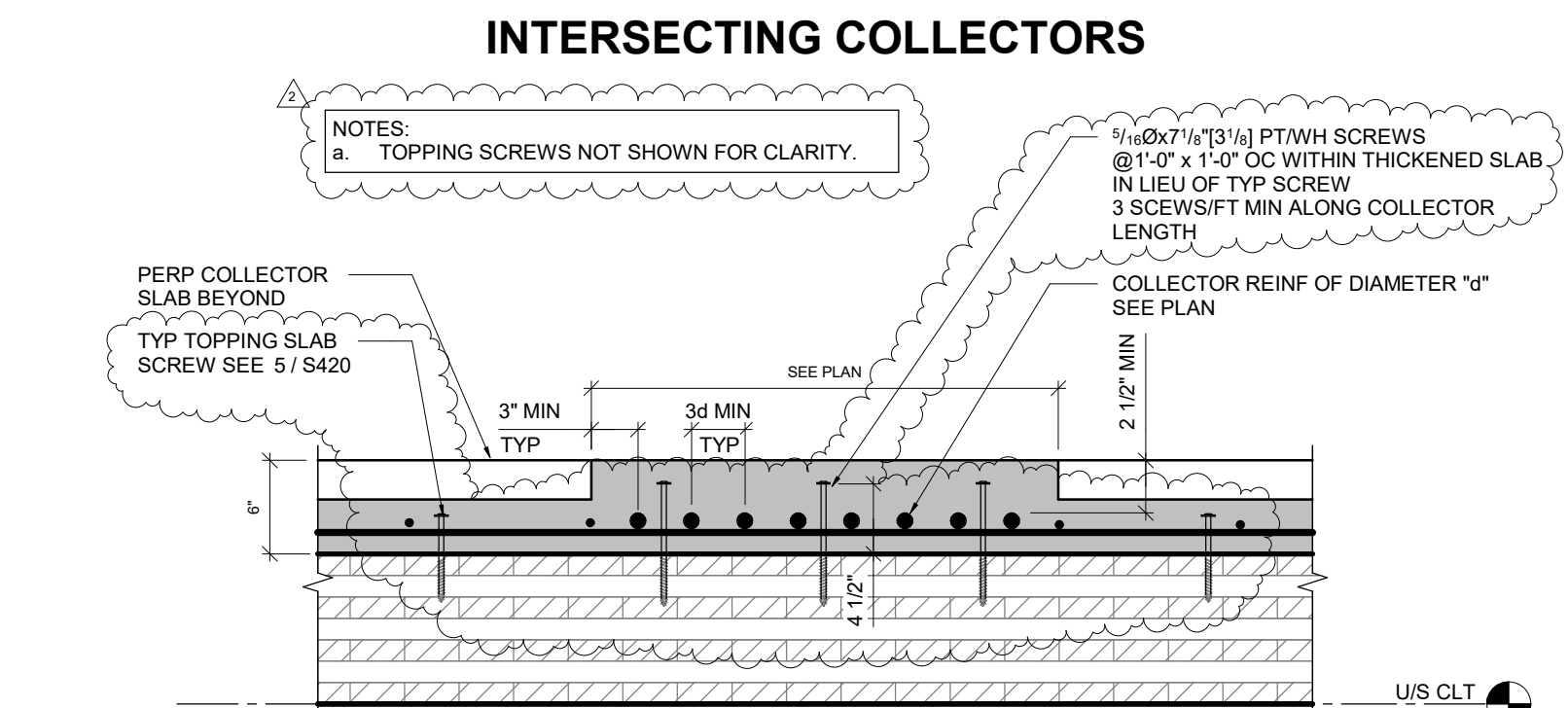
**SECTION**

2A  
S420  
1" = 1'-0"



**TYPICAL COLLECTOR**

NOTES:  
1. NORTH/SOUTH COLLECTOR BARS SHOWN ON PLAN ARE BOTTOM LAYER UNLESS NOTED OTHERWISE.  
2. DISTRIBUTED SLAB REINFORCING RUNNING PARALLEL TO THE COLLECTOR BARS MAY BE OMITTED OVER THE WIDTH OF THE COLLECTOR SHOWN ON PLAN.

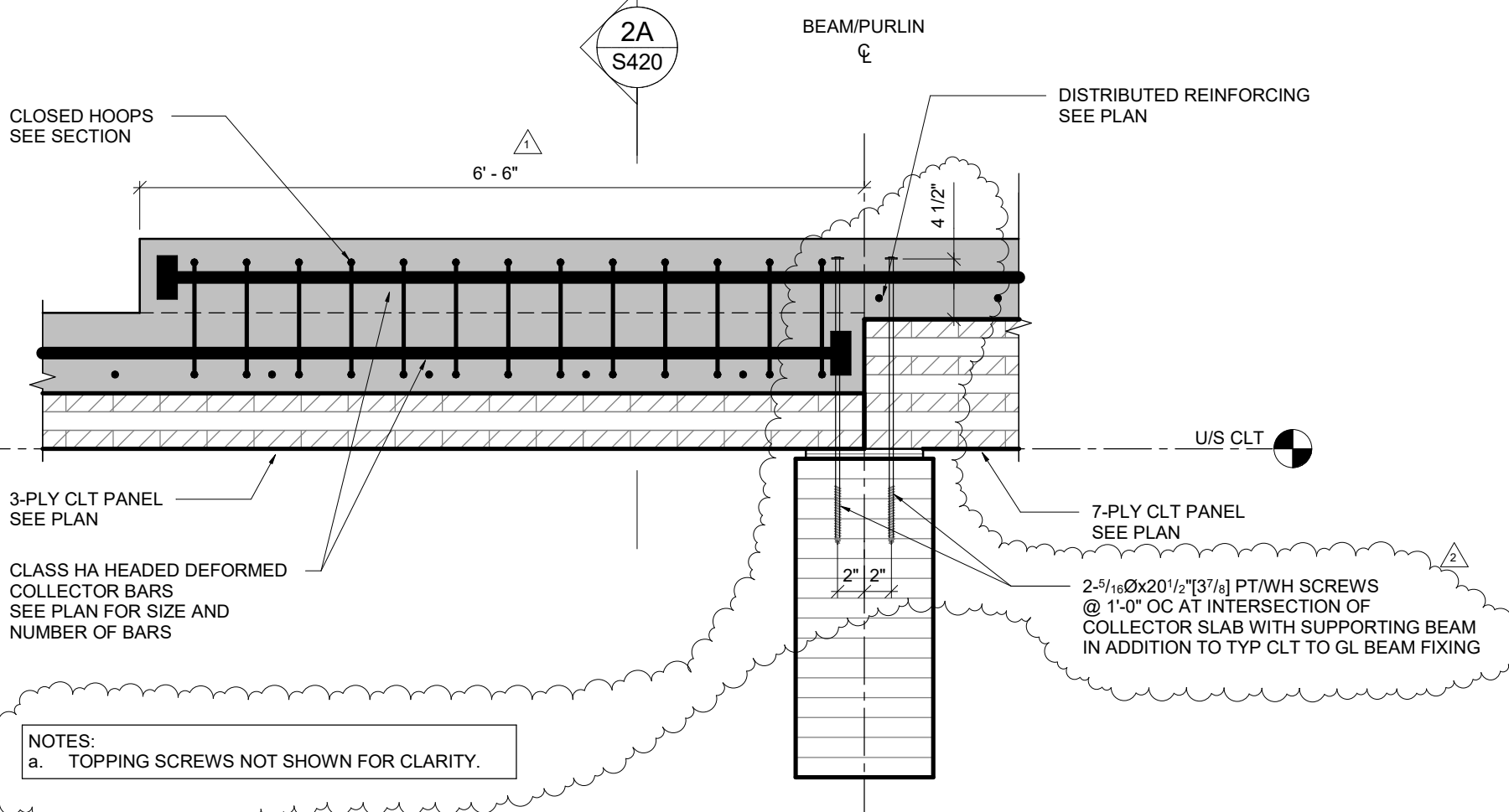


**TYPICAL COLLECTOR**

NOTES:  
1. NORTH/SOUTH COLLECTOR BARS SHOWN ON PLAN ARE BOTTOM LAYER UNLESS NOTED OTHERWISE.  
2. DISTRIBUTED SLAB REINFORCING RUNNING PARALLEL TO THE COLLECTOR BARS MAY BE OMITTED OVER THE WIDTH OF THE COLLECTOR SHOWN ON PLAN.

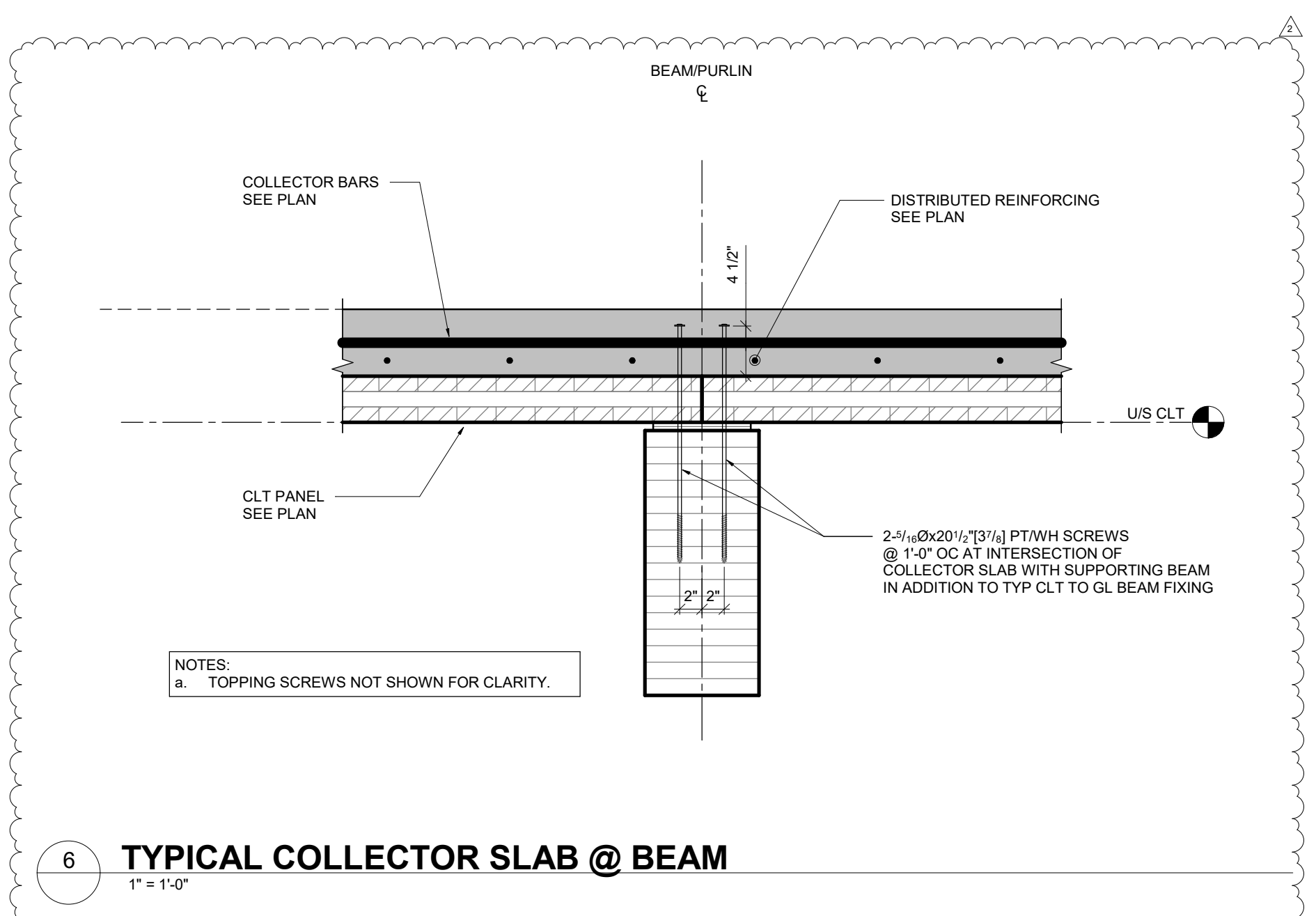
**TYPICAL TOPPING SLAB COLLECTOR**

1  
S112  
1" = 1'-0"



**TYPICAL COLLECTOR SLAB STEP**

2  
S112  
1" = 1'-0"



**TYPICAL COLLECTOR SLAB @ BEAM**

6  
S112  
1" = 1'-0"

CSG CONSULTANTS, INC.  
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By LOK C. PHIROZE W.  
YVONNE C.

Date: 7/28/2020

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1265 Borregas

GOOGLE LLC  
SUNNYVALE, CA

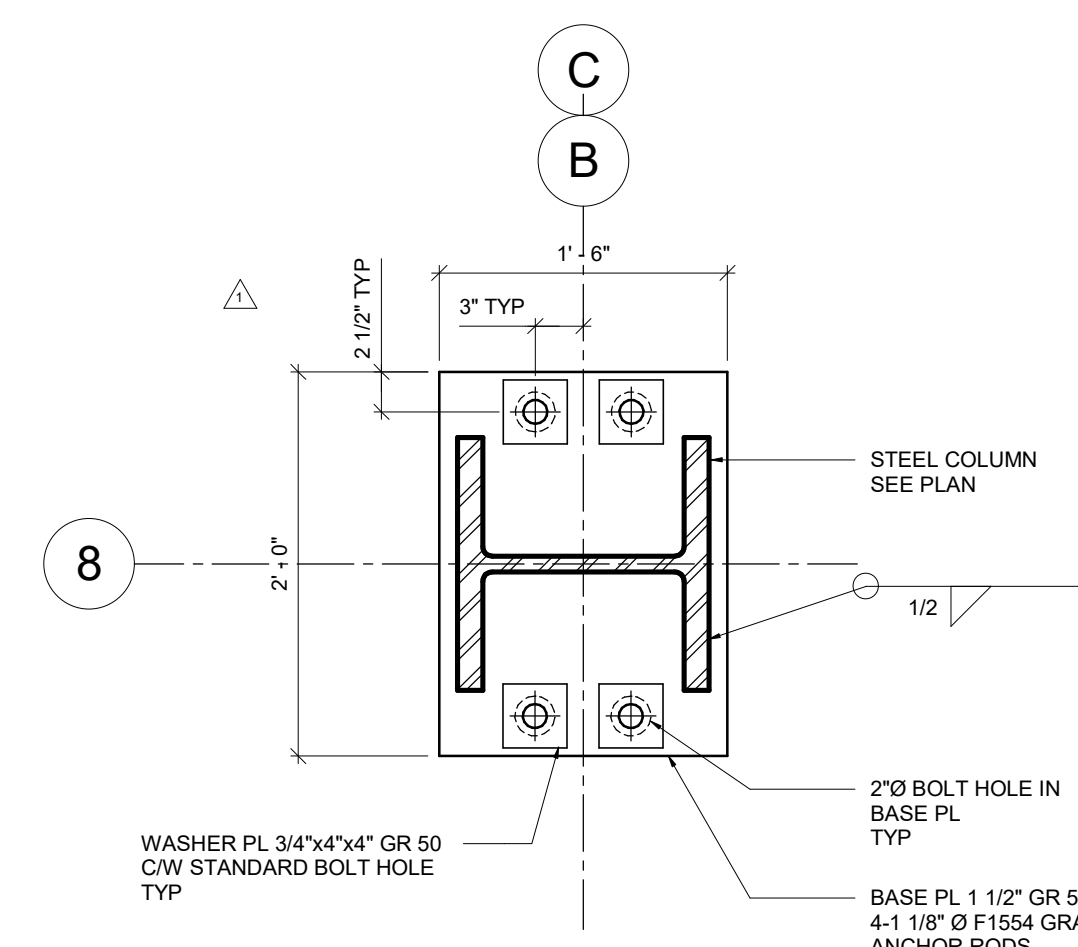
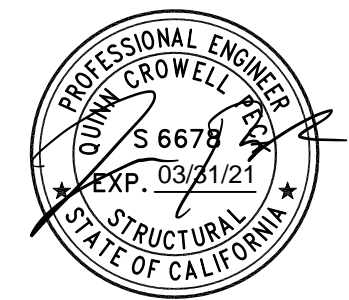
|                         |            |
|-------------------------|------------|
| ISSUED FOR PERMIT       | 06/01/2020 |
| 1 PLAN CHECK RESPONSE 1 | 09/03/2020 |
| 2 PLAN CHECK RESPONSE 2 | 08/05/2020 |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

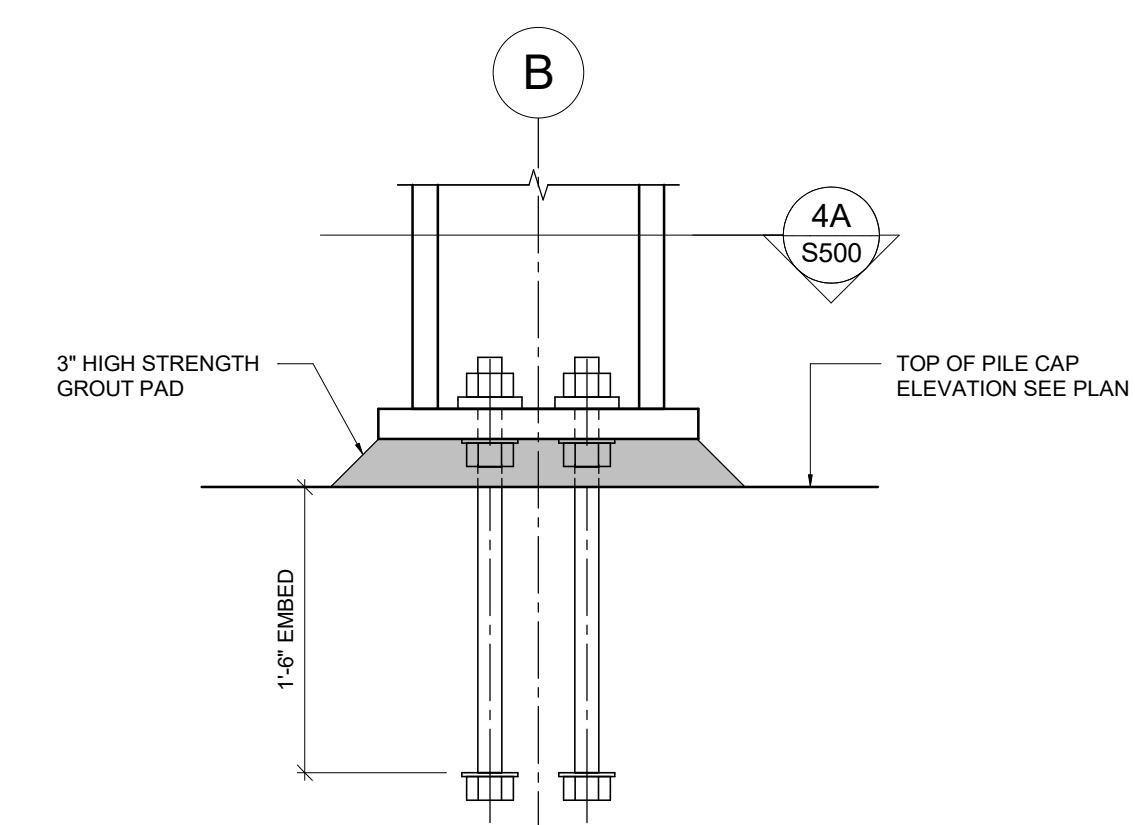
TYPICAL CLT  
TOPPING SLAB  
DETAILS  
**S420**

PERMIT SET

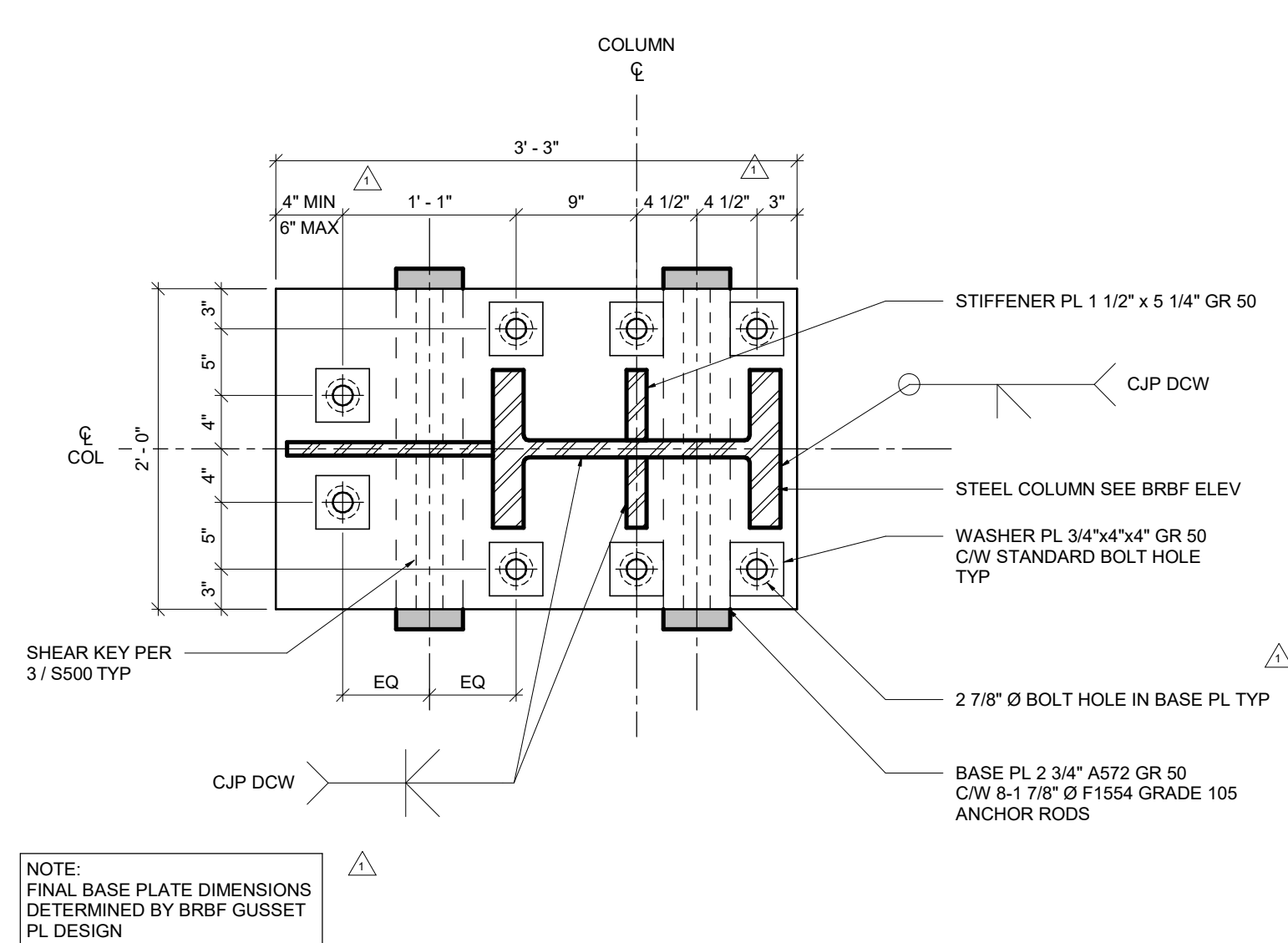




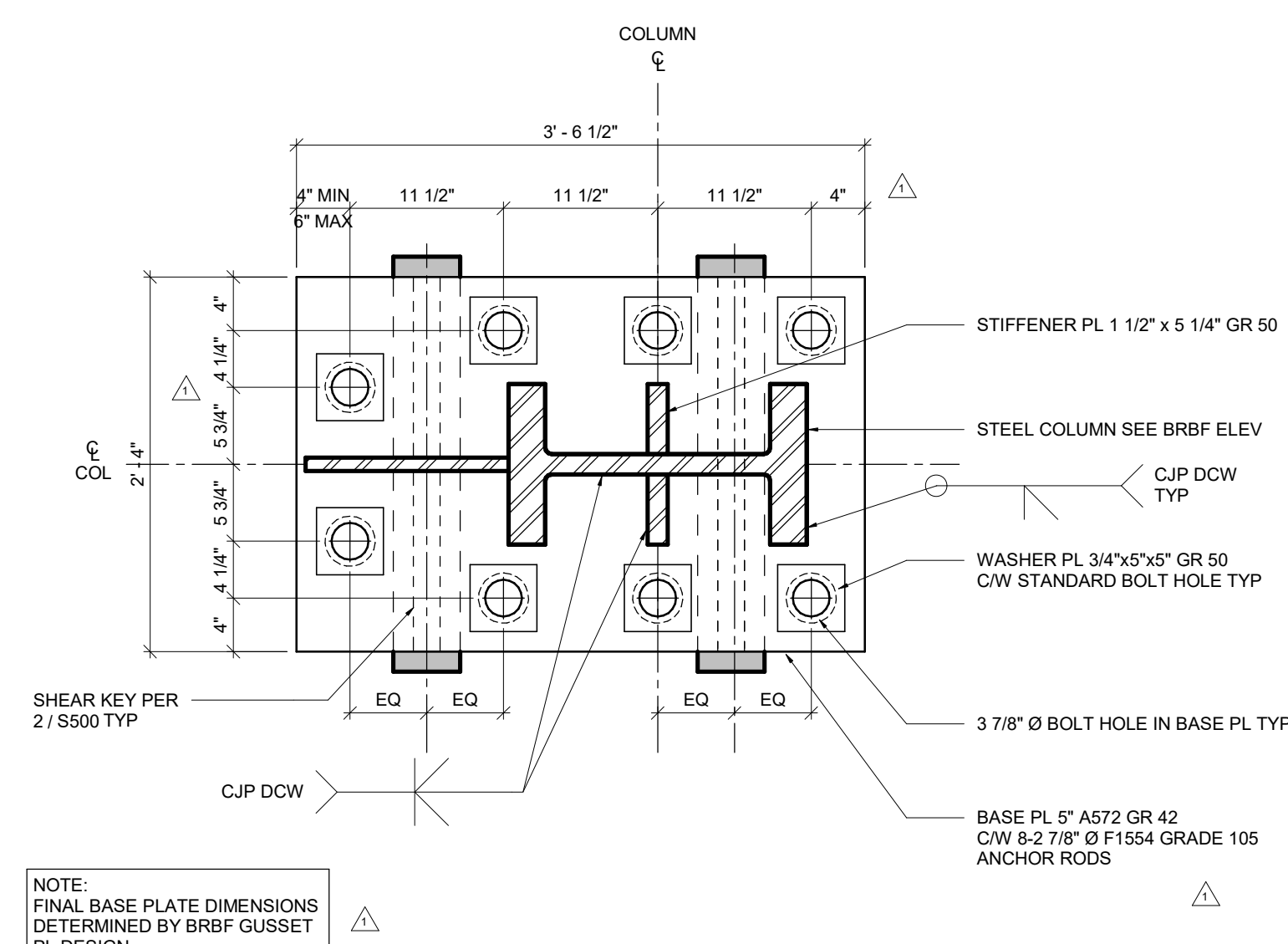
4A GRAVITY COL BASE PLATE - PLAN  
1" = 1'-0"



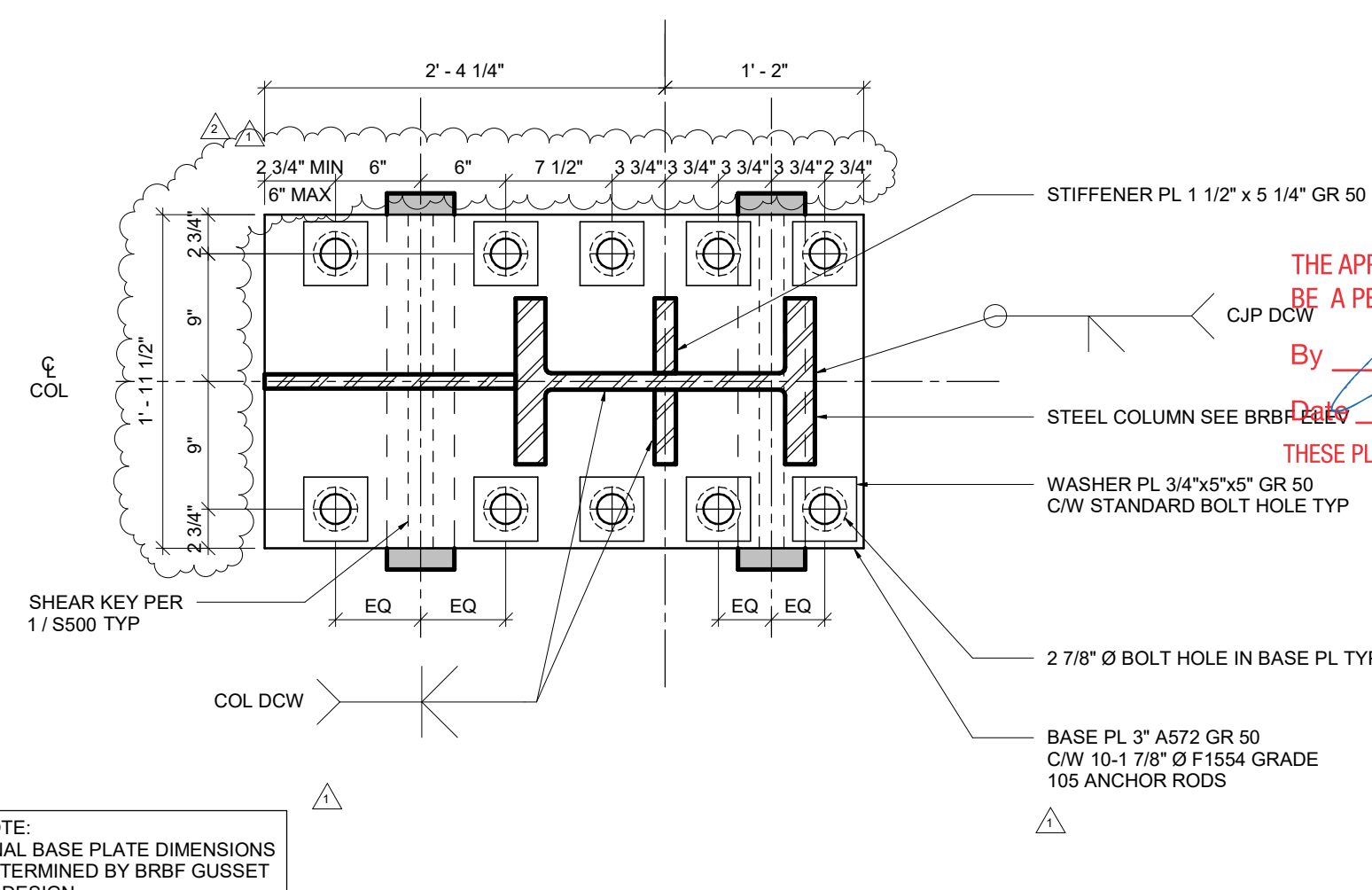
### GRAVITY COL BASE PLATE - ELEVATION



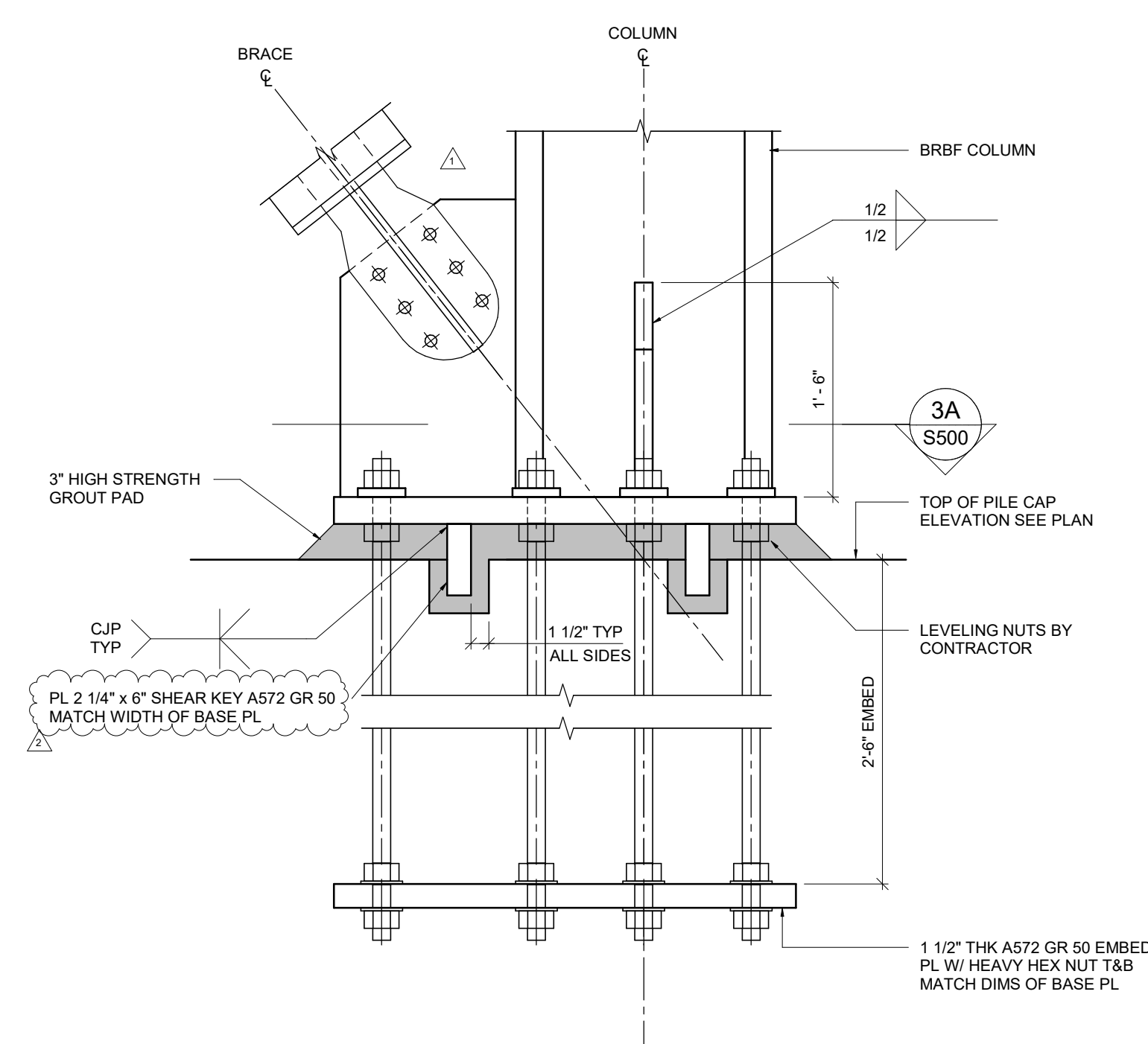
3A BRBF BASE PLATE 3 - PLAN  
1" = 1'-0"



2A BRBF BASE PLATE 2 - PLAN  
1" = 1'-0"



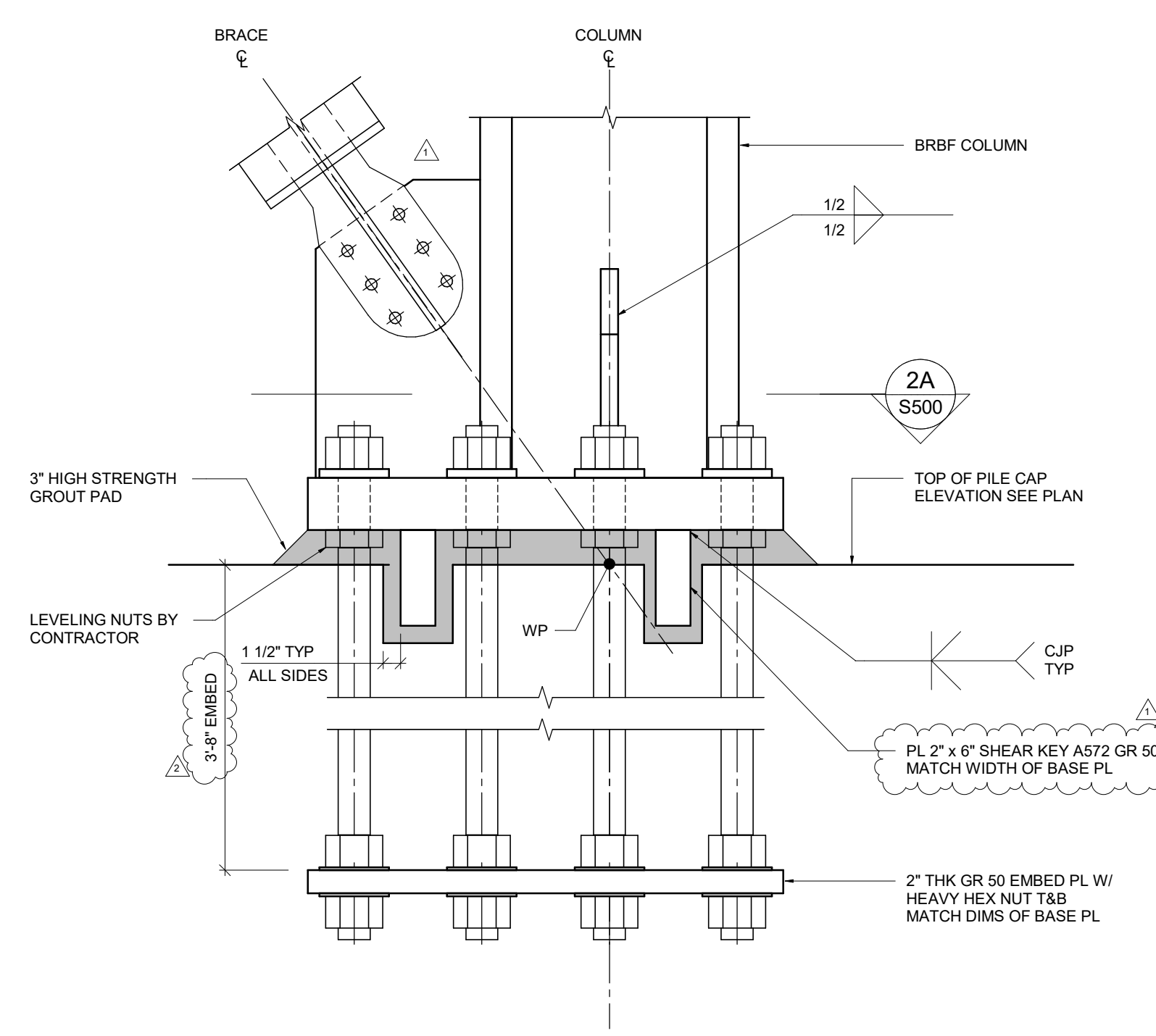
1A BRBF BASE PLATE 1 - PLAN  
1" = 1'-0"



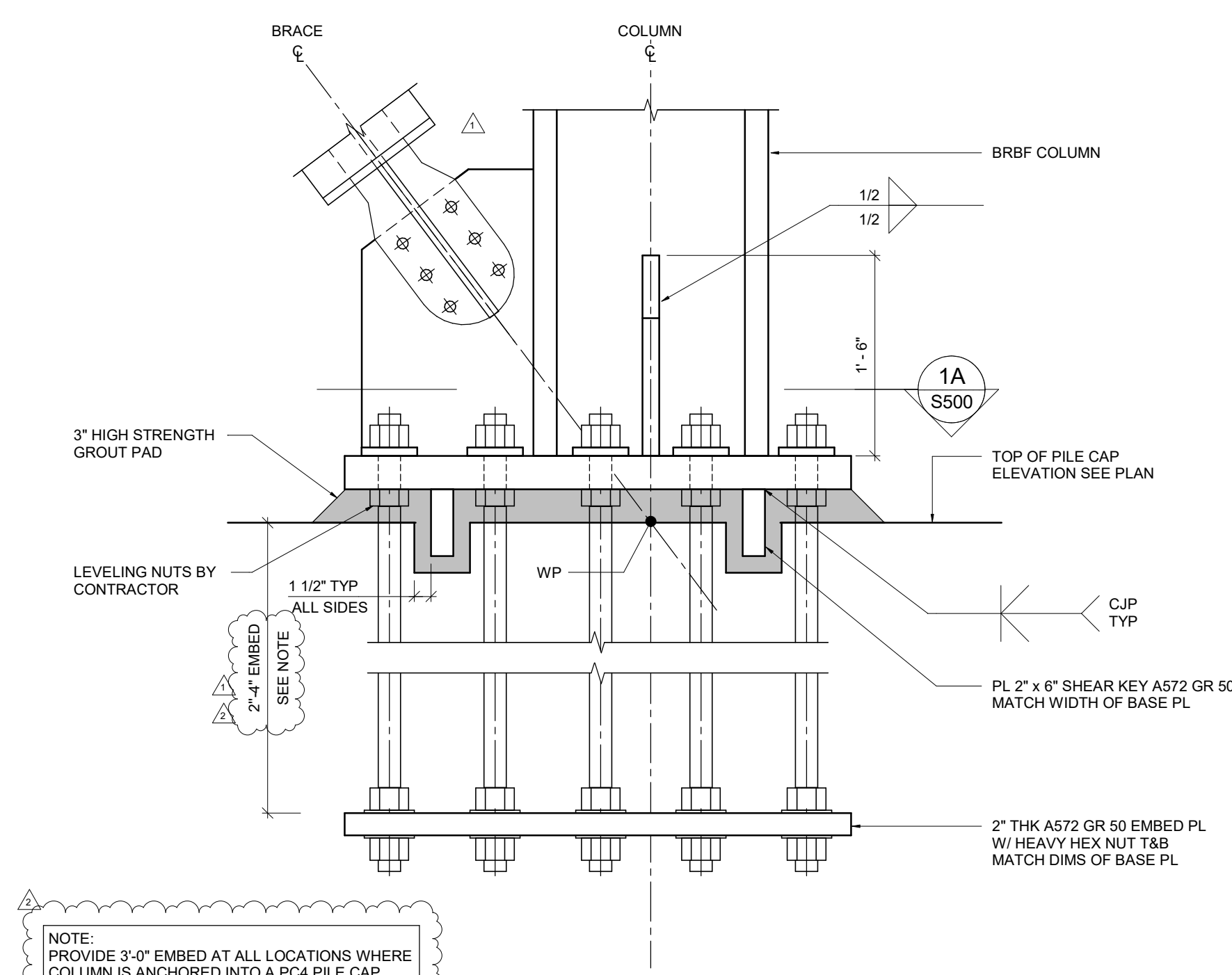
3  
S210

**BRBF BASE PLATE 3 - ELEVATION**

1" = 1'-0"




2 BRBF BASE PLATE 2 - ELEVATION  
S212 1" = 1'-0"



1 BRBF BASE PLATE 1 - ELEVATION  
S210 1" = 1'-0"

**APPROVED**

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BE A PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.

By  LOK C. PHIROZE W.,  
YVONNE C.

Date: 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

|         |  |
|---------|--|
| OR 00   |  |
| OLE TYP |  |

|             |  |
|-------------|--|
| BASE PL TYP |  |
|-------------|--|

|       |  |
|-------|--|
| GRADE |  |
|-------|--|

**1265 Borregas**

GOOGLE LLC  
265 BORREGAS AVE.,  
SUNNYVALE CA

| REVISIONS                  |            |
|----------------------------|------------|
| ISSUED FOR PERMIT          | 06/01/2020 |
| 1 PLAN CHECK<br>RESPONSE 1 | 09/03/2020 |
| 2 PLAN CHECK<br>RESPONSE 2 | 08/05/2020 |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

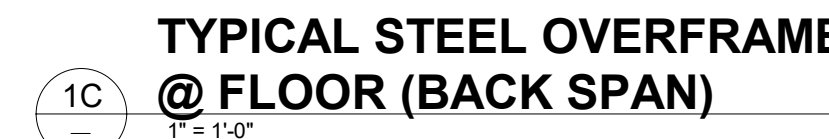
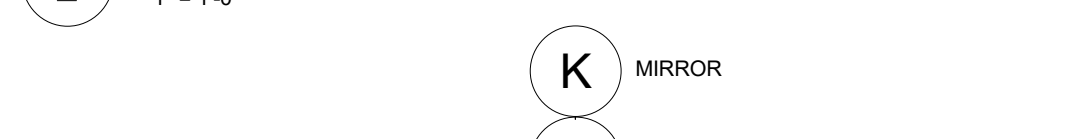
**STEEL BASE  
PLATE DETAILS  
\$500**

**PERMIT SET**

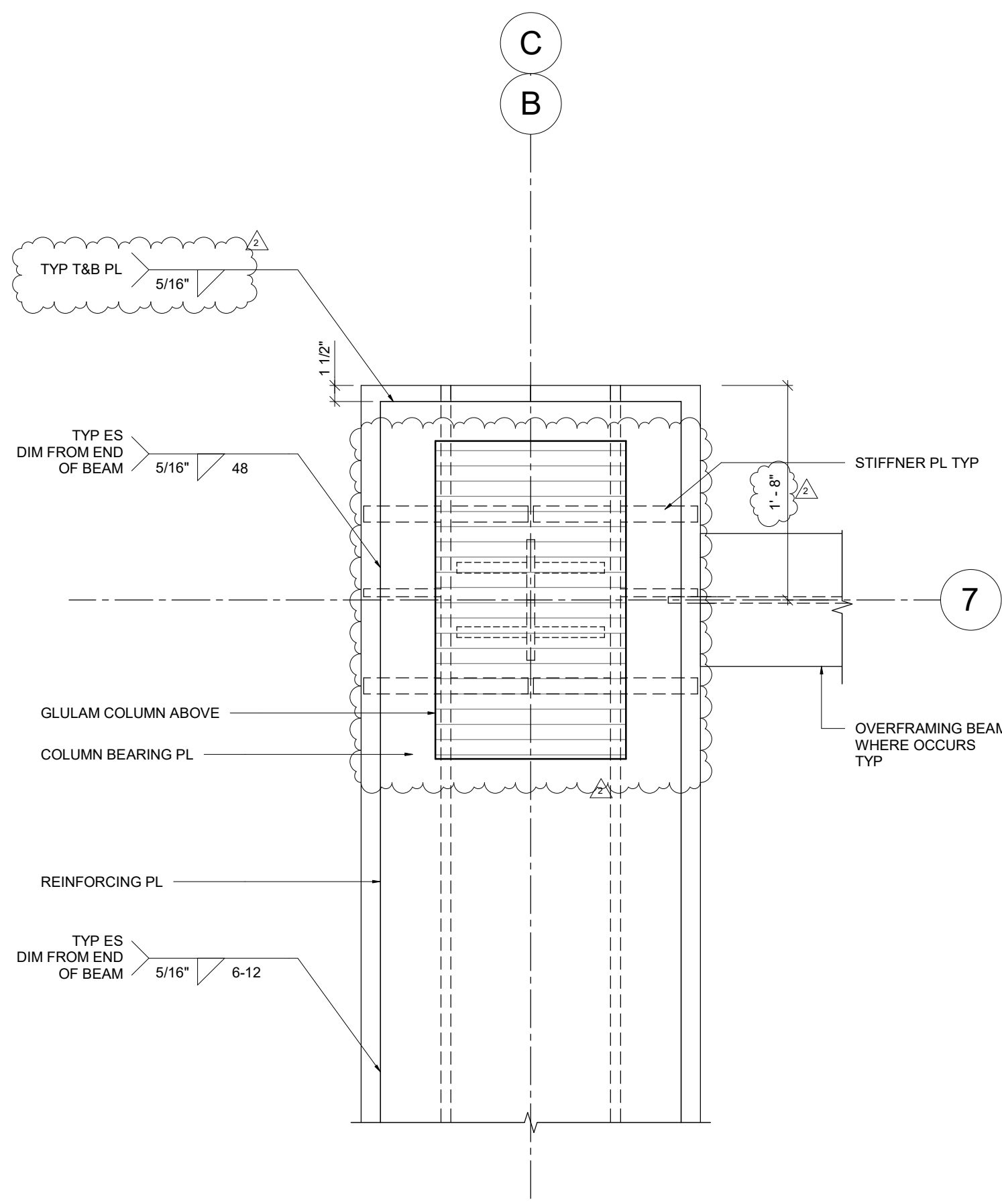
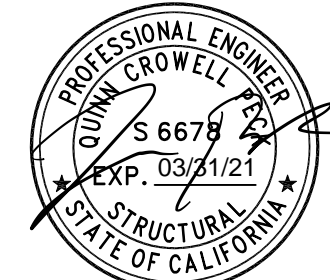




5 ADD'L SCREWS @ OVER FRAME DETAIL  
1" = 1'-0"

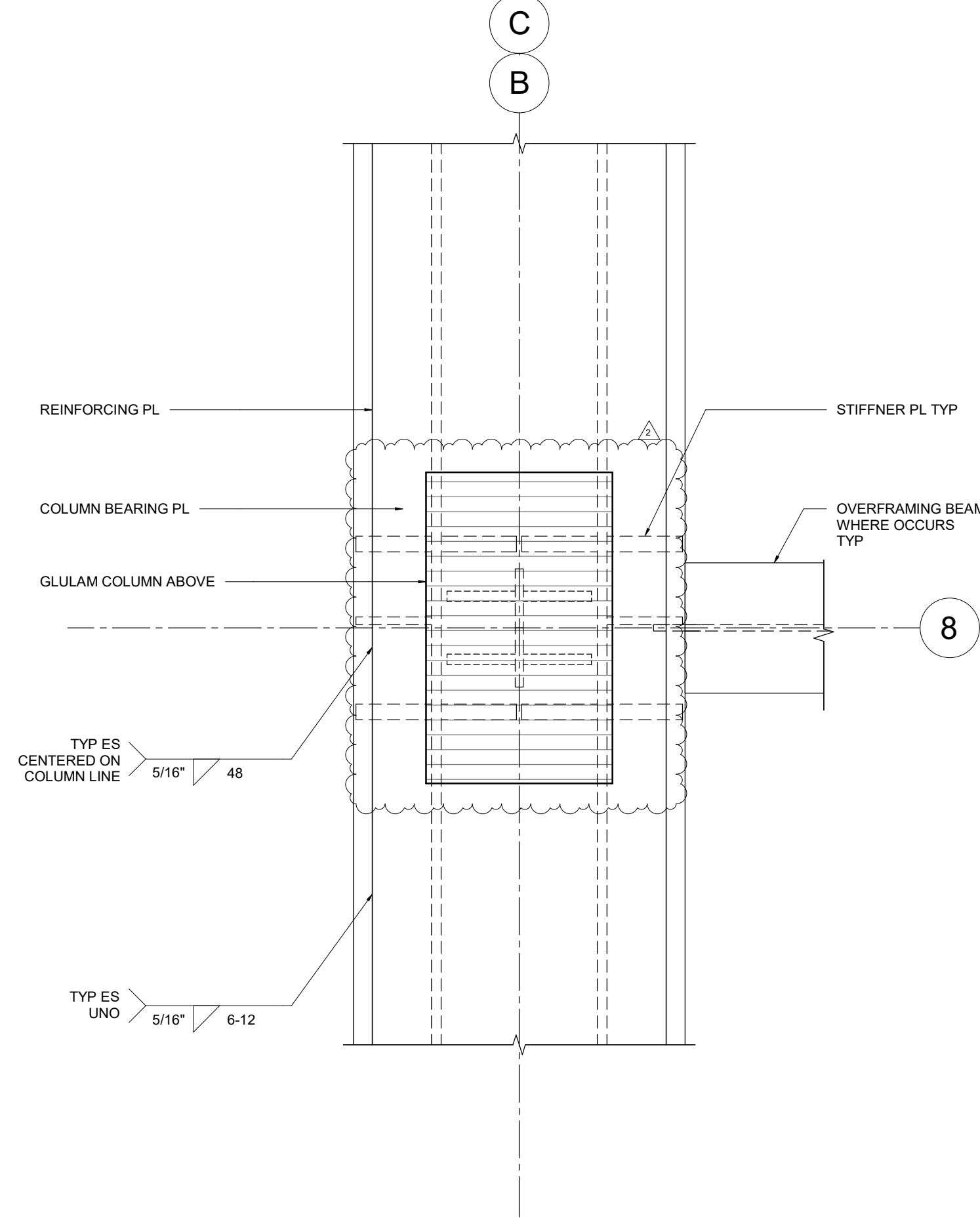






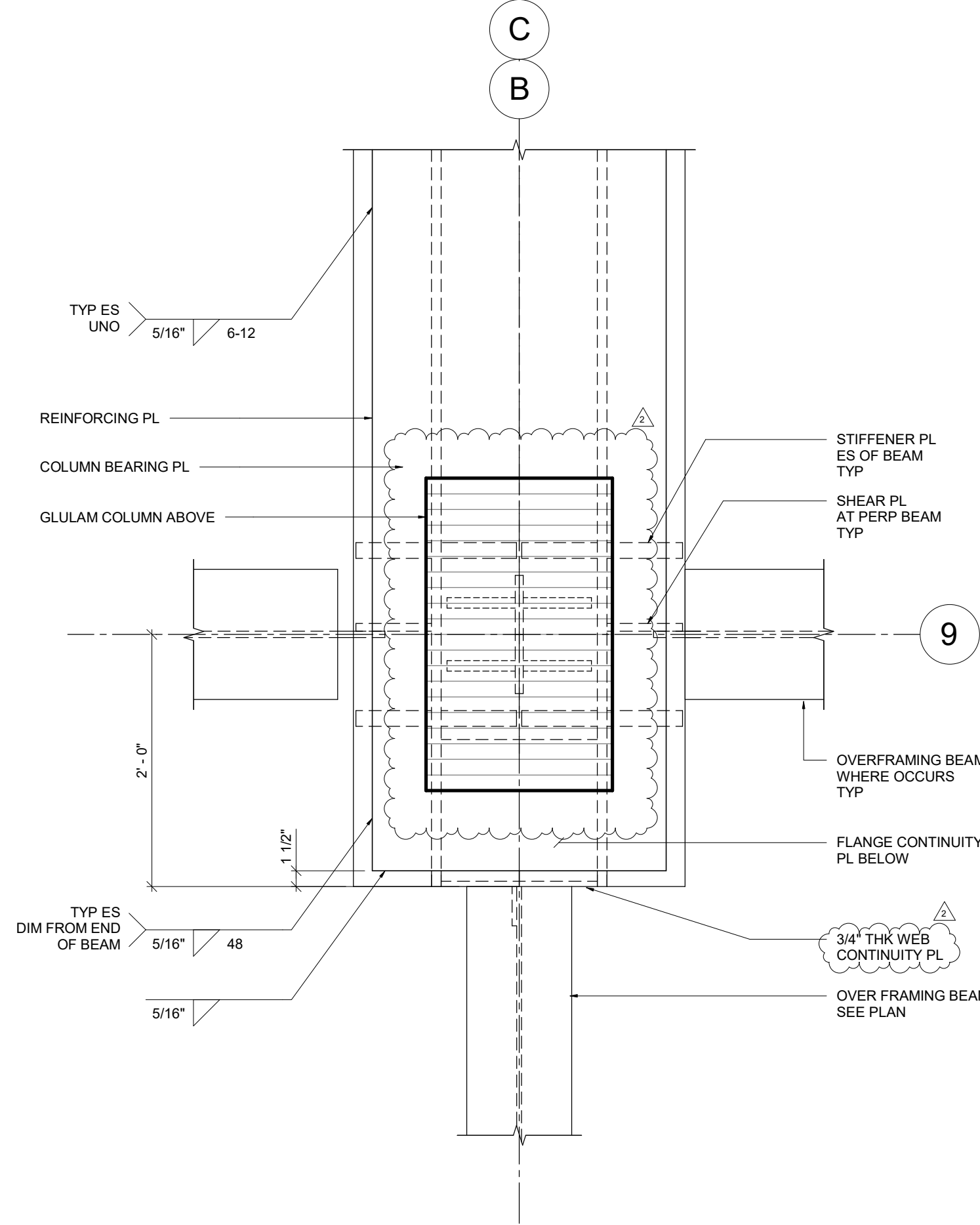
NOTES:  
1. CLT AND TOPPING SLAB NOT SHOWN FOR CLARITY  
2. STEEL FRAME ADJACENT TO GRID C NOT SHOWN FOR CLARITY

5B PLAN DETAIL  
1" = 1'-0"

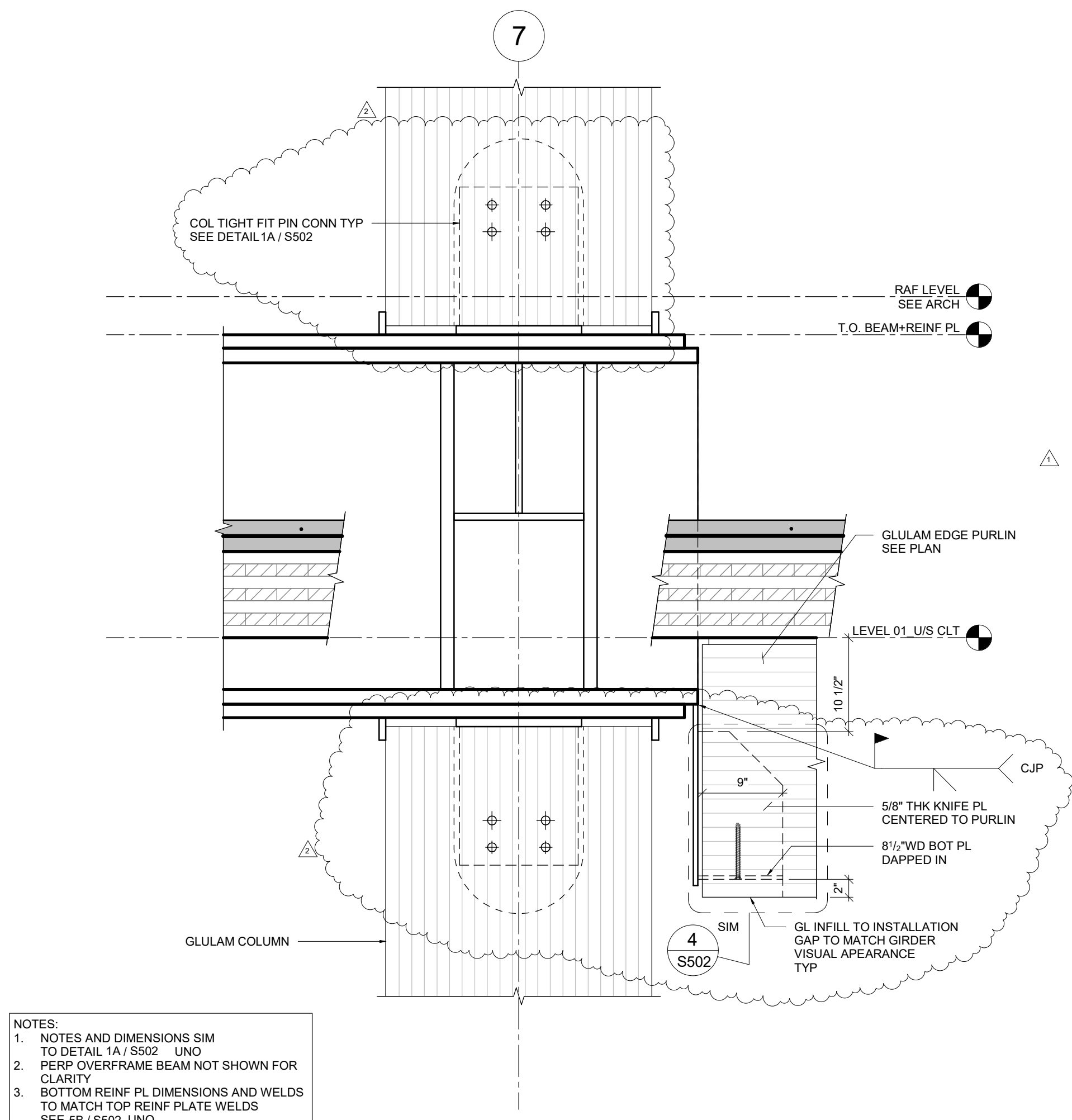


NOTES:  
1. CLT AND TOPPING SLAB NOT SHOWN FOR CLARITY  
2. STEEL FRAME ADJACENT TO GRID C NOT SHOWN FOR CLARITY

3B PLAN DETAIL  
1" = 1'-0"

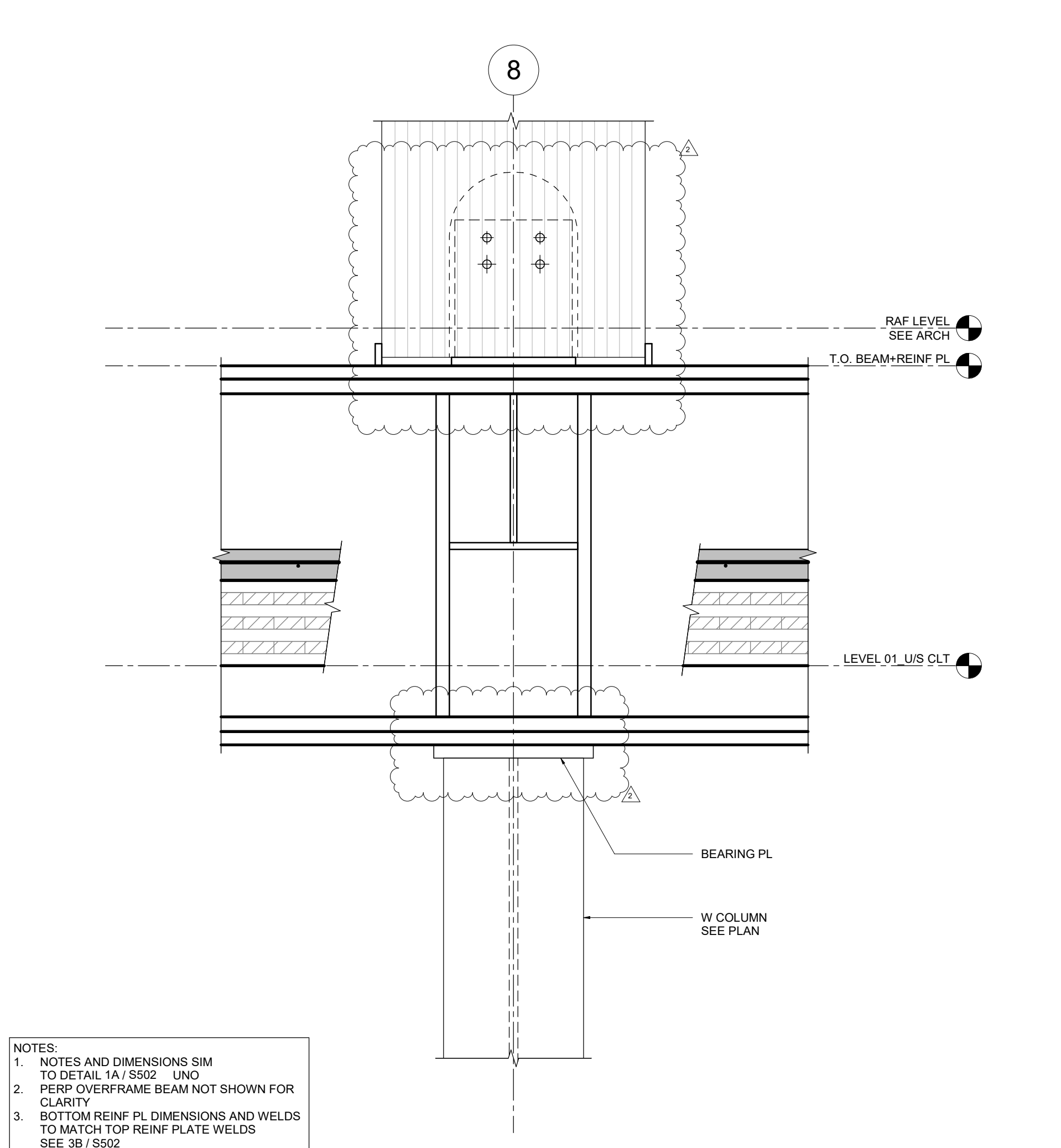


1B PLAN DETAIL  
1" = 1'-0"



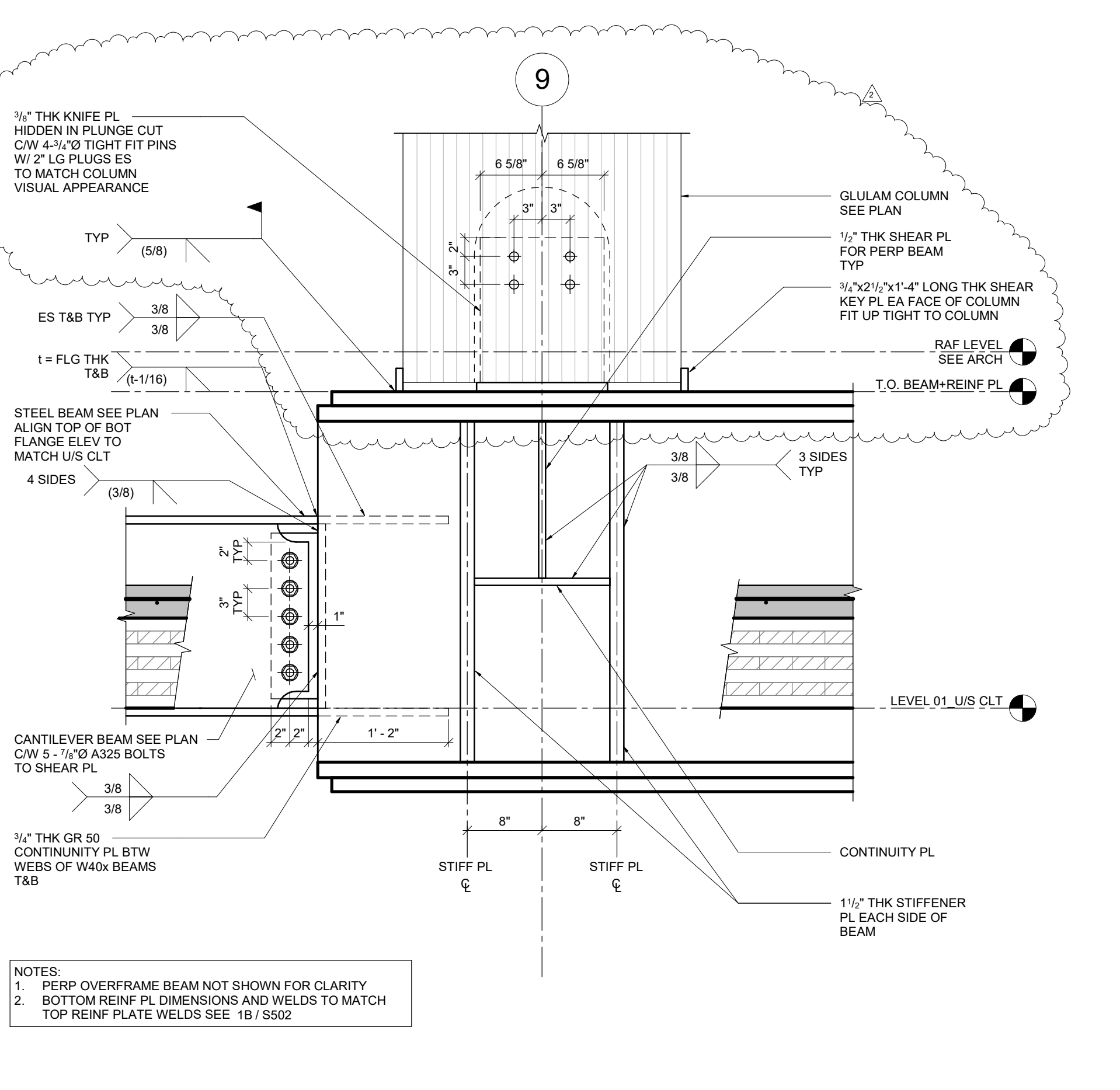
NOTES:  
1. NOTES AND DIMENSIONS SIM TO DETAIL 1A / S502 UNO  
2. PERP OVERFRAME BEAM NOT SHOWN FOR CLARITY  
3. BOTTOM REINF PL DIMENSIONS AND WELDS TO MATCH TOP REINF PLATE WELDS SEE 5B / S502 UNO

5A TRANSFER BEAM DETAIL  
1" = 1'-0"



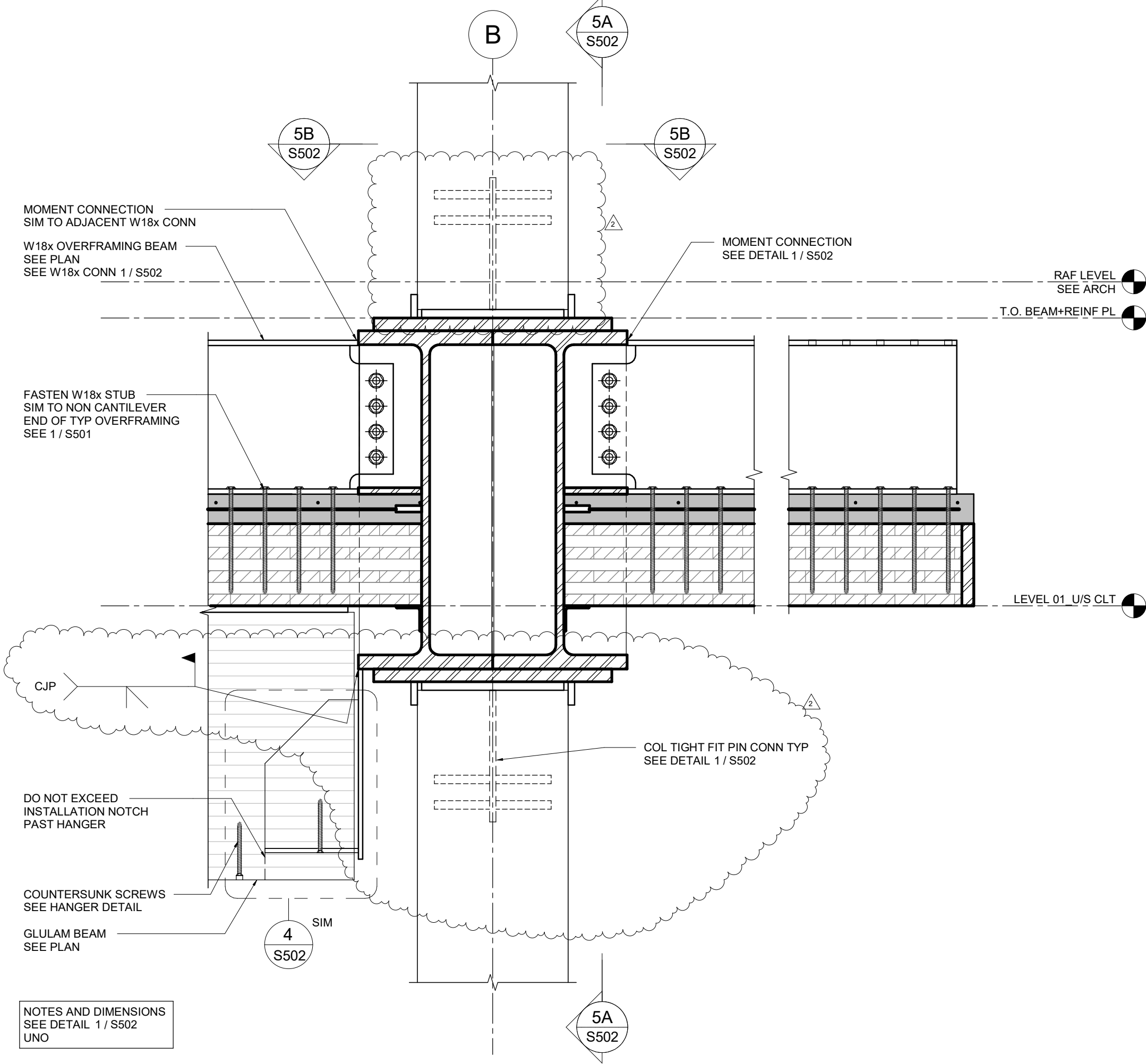
NOTES:  
1. NOTES AND DIMENSIONS SIM TO DETAIL 1A / S502 UNO  
2. PERP OVERFRAME BEAM NOT SHOWN FOR CLARITY  
3. BOTTOM REINF PL DIMENSIONS AND WELDS TO MATCH TOP REINF PLATE WELDS SEE 3B / S502

3A TRANSFER BEAM DETAIL  
1" = 1'-0"



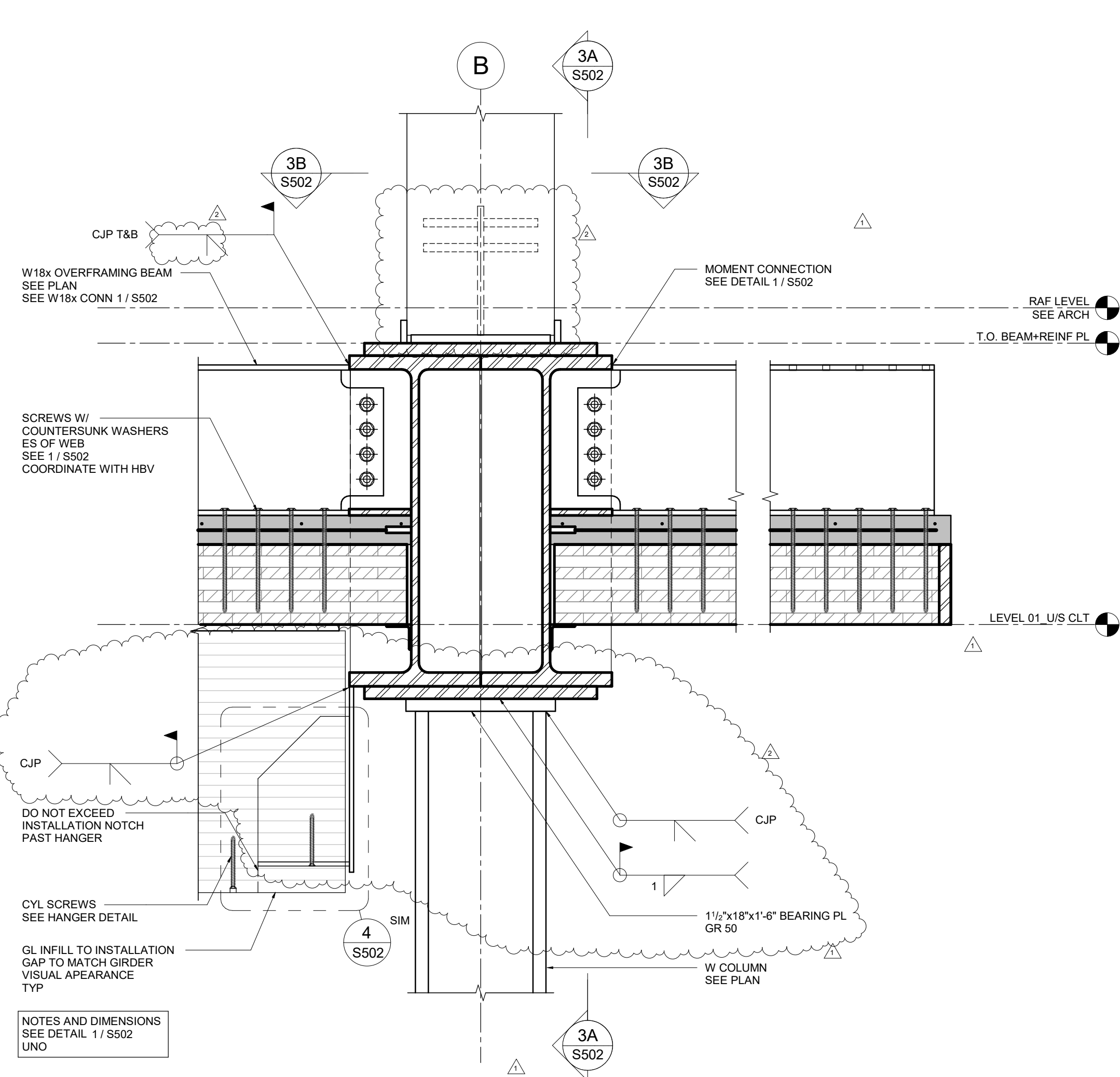
NOTES:  
1. PERP OVERFRAME BEAM NOT SHOWN FOR CLARITY  
2. BOTTOM REINF PL DIMENSIONS AND WELDS TO MATCH TOP REINF PLATE WELDS SEE 1B / S502

1A TRANSFER BEAM DETAIL  
1" = 1'-0"



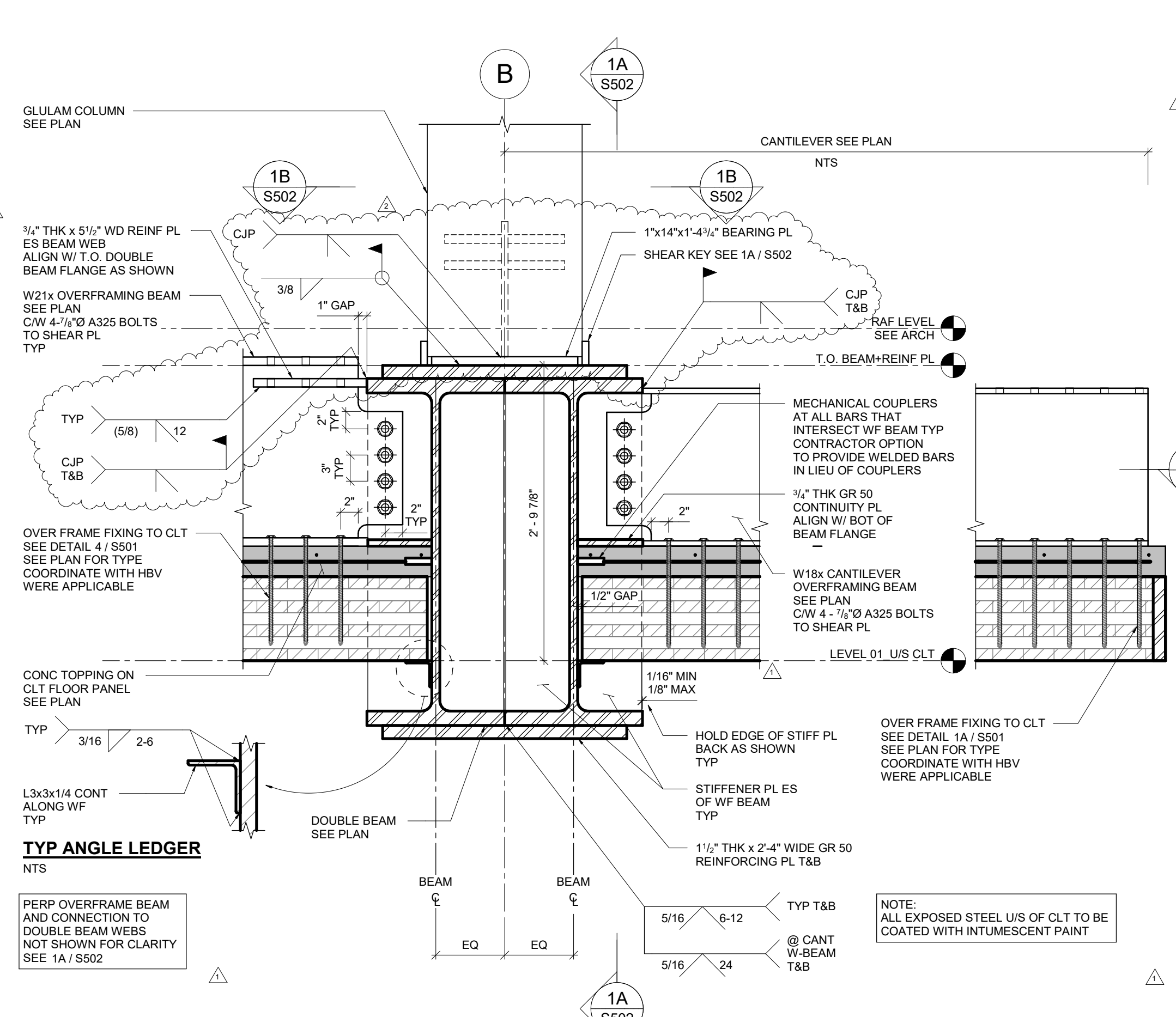
NOTES AND DIMENSIONS  
SEE DETAIL 1 / S502 UNO

TRANSFER BEAM DETAIL  
@ GRL 7  
1" = 1'-0"



NOTES AND DIMENSIONS  
SEE DETAIL 1 / S502 UNO

TRANSFER BEAM DETAIL  
@ GRL 8  
1" = 1'-0"



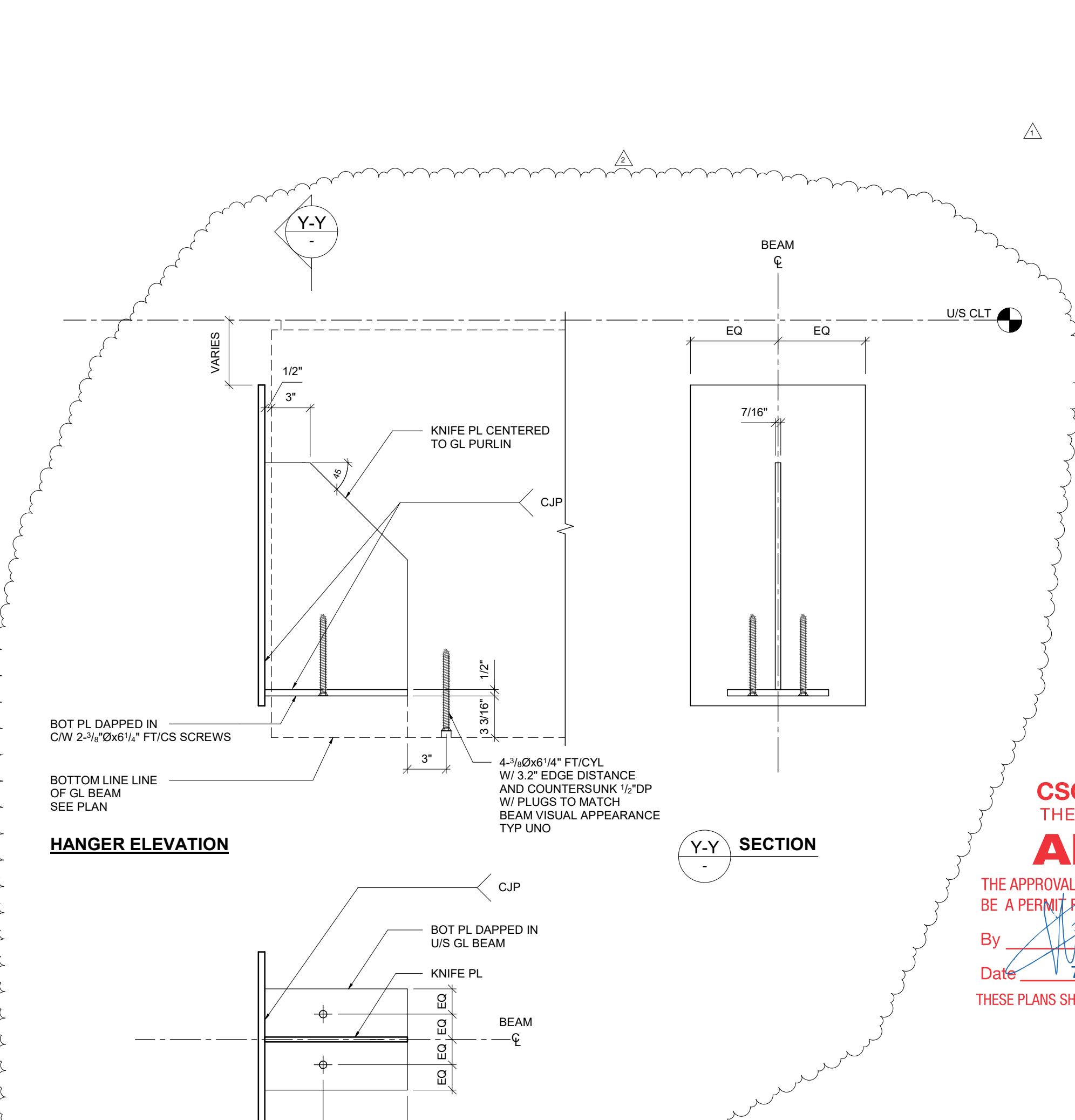
NOTES:  
1. PERP OVERFRAME BEAM AND CONNECTION TO DOUBLE BEAM WEBS NOT SHOWN FOR CLARITY SEE 1A / S502

TRANSFER BEAM DETAIL  
@ GRL 9  
1" = 1'-0"



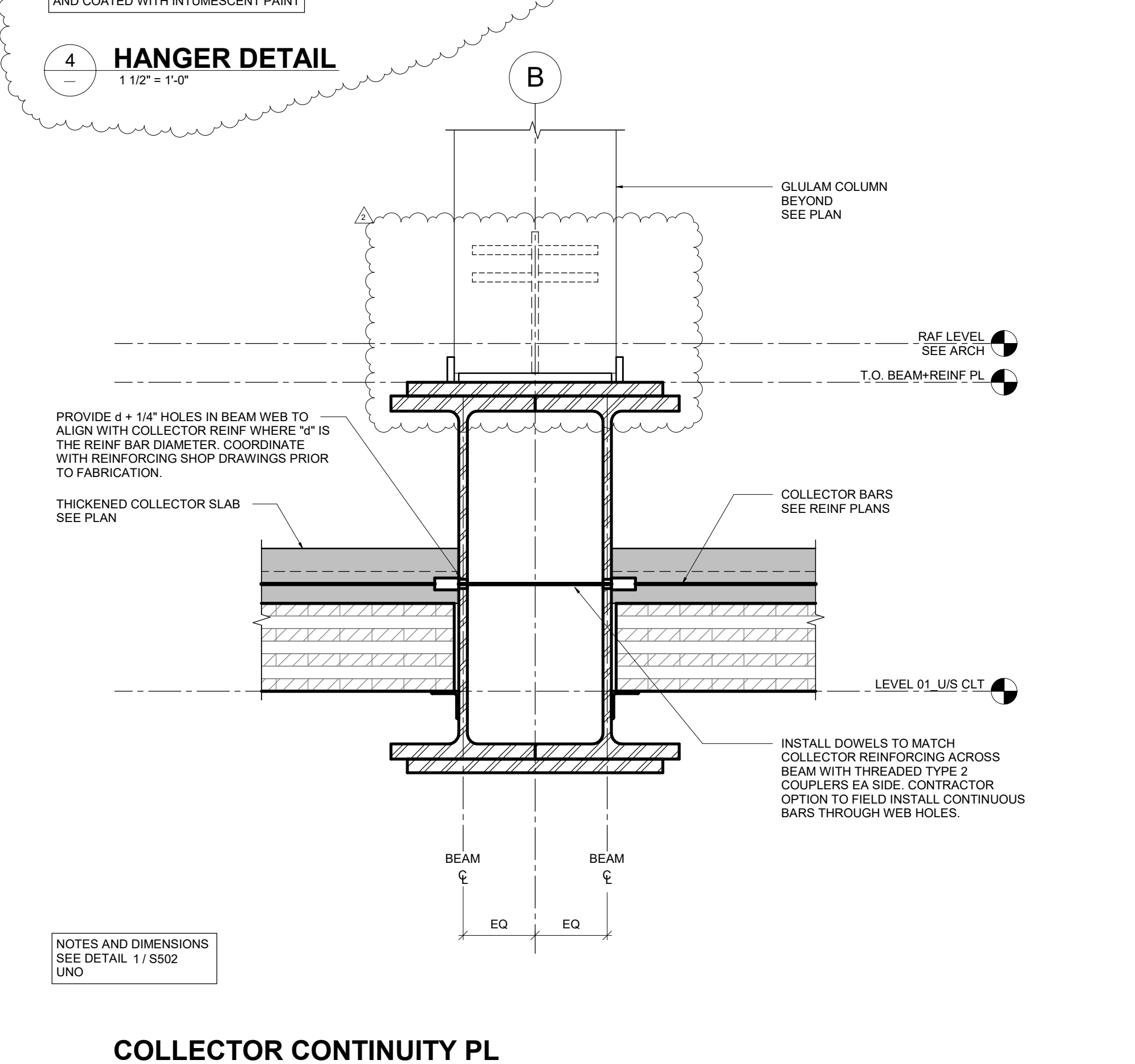
NOTES AND DIMENSIONS  
SEE DETAIL 1 / S502 UNO

TRANSFER BEAM DETAIL  
@ GRL 7  
1" = 1'-0"



NOTES AND DIMENSIONS  
SEE DETAIL 1 / S502 UNO

TRANSFER BEAM DETAIL  
@ GRL 8  
1" = 1'-0"



NOTES AND DIMENSIONS  
SEE DETAIL 1 / S502 UNO

TRANSFER BEAM DETAIL  
@ GRL 9  
1" = 1'-0"



COLLECTOR CONTINUITY PL  
AT TRANSFER BEAM  
1" = 1'-0"

CSG CONSULTANTS, INC.  
THESE PLANS AND DETAILS ARE  
**APPROVED**

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By: LOK C. PHIROZE W.  
YVONNE C.  
Date: 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

GOOGLE LLC  
1265 BORREGAS AVE  
SUNNYVALE CA

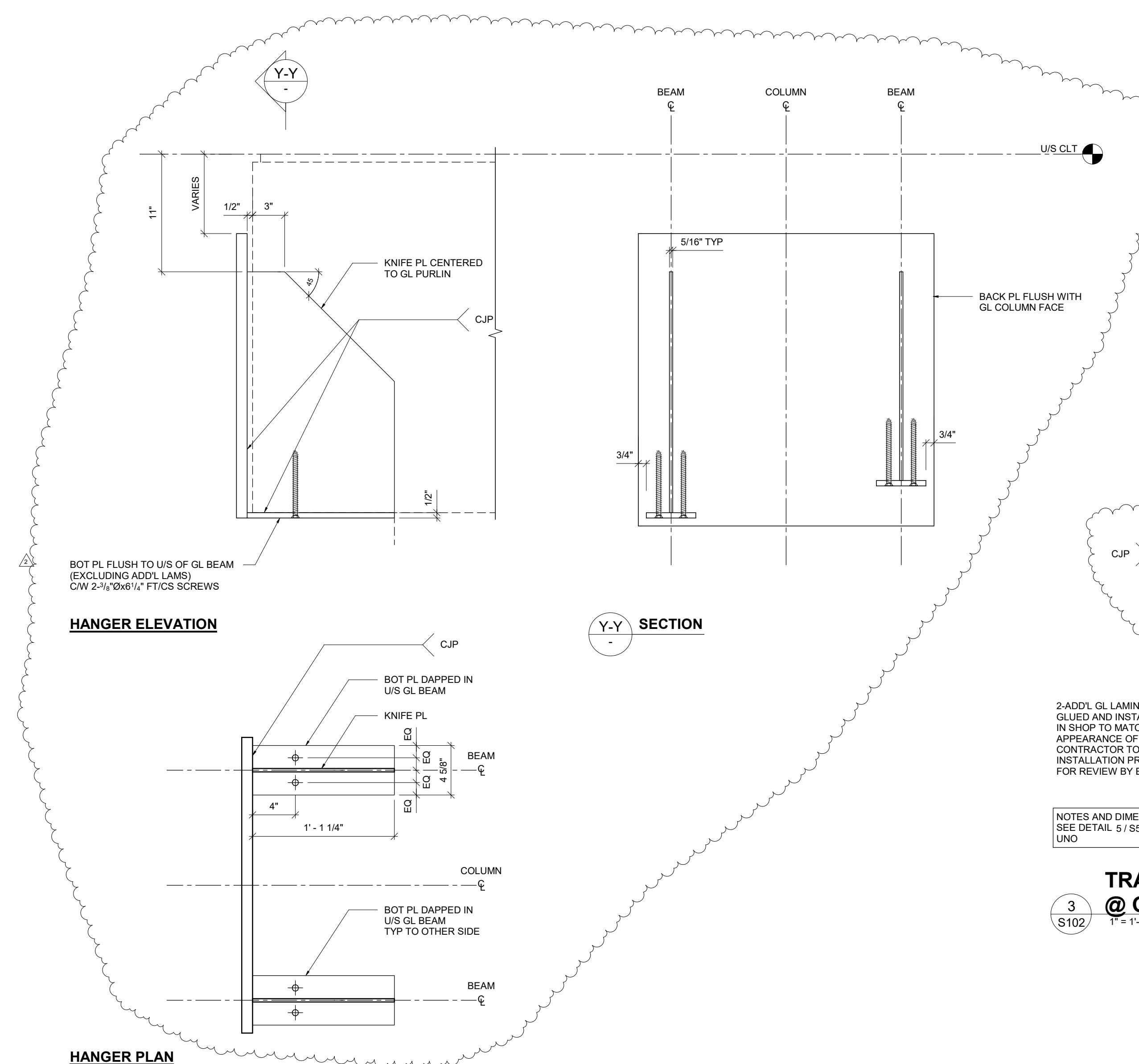
REVISIONS  
ISSUED FOR PERMIT 06/01/2020  
1. PLAN CHECK 09/03/2020  
RESPONSE 1  
2. PLAN CHECK 08/05/2020  
RESPONSE 2

CHECKED BY: SK  
PROJECT NO: 9 MAR 2020  
16940

STEEL DETAILS  
**S502**

PERMIT SET



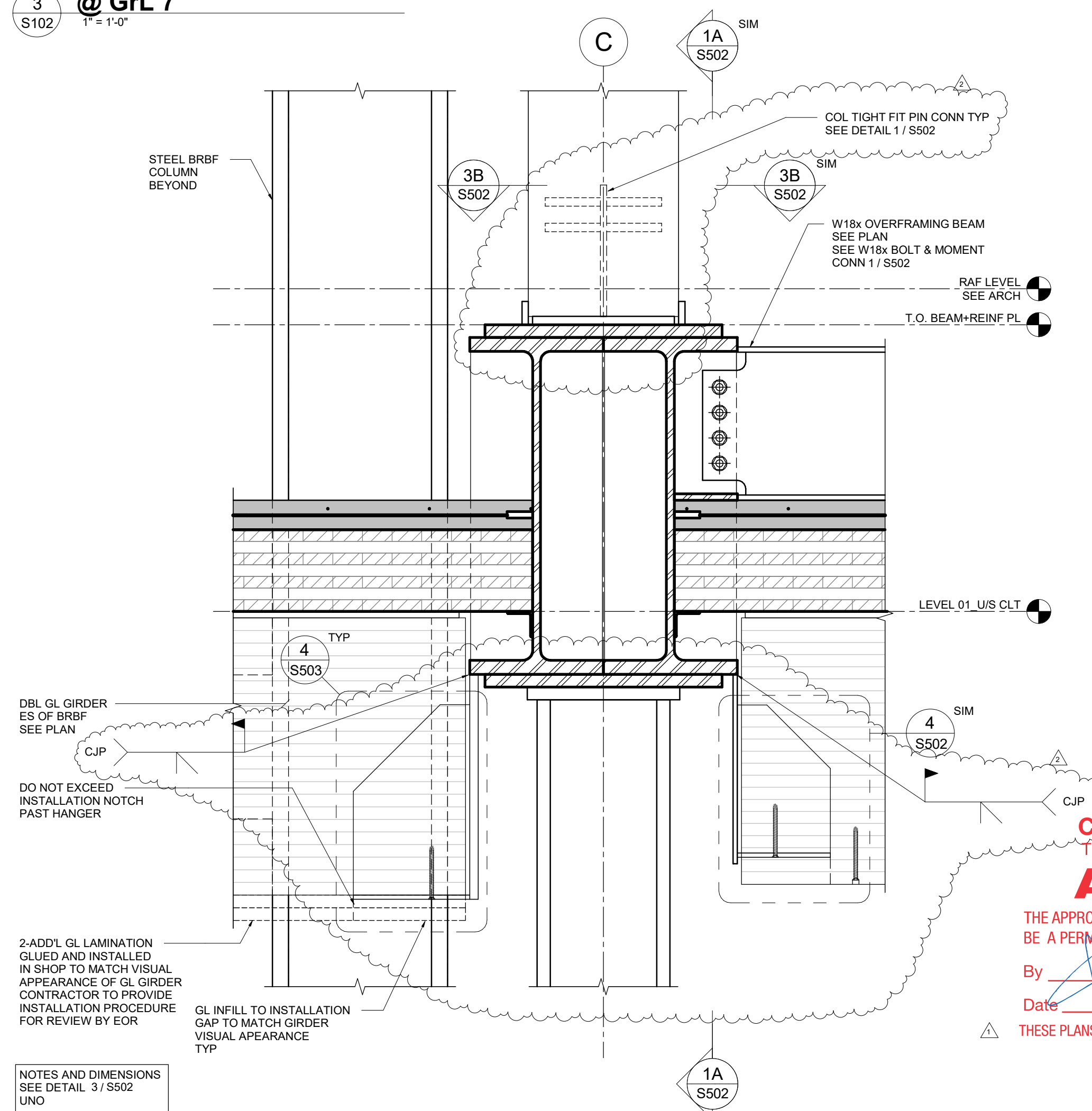


NOTE:  
ALL STEEL TO BE GR 50  
AND COATED WITH INTUMESCENT PAINT

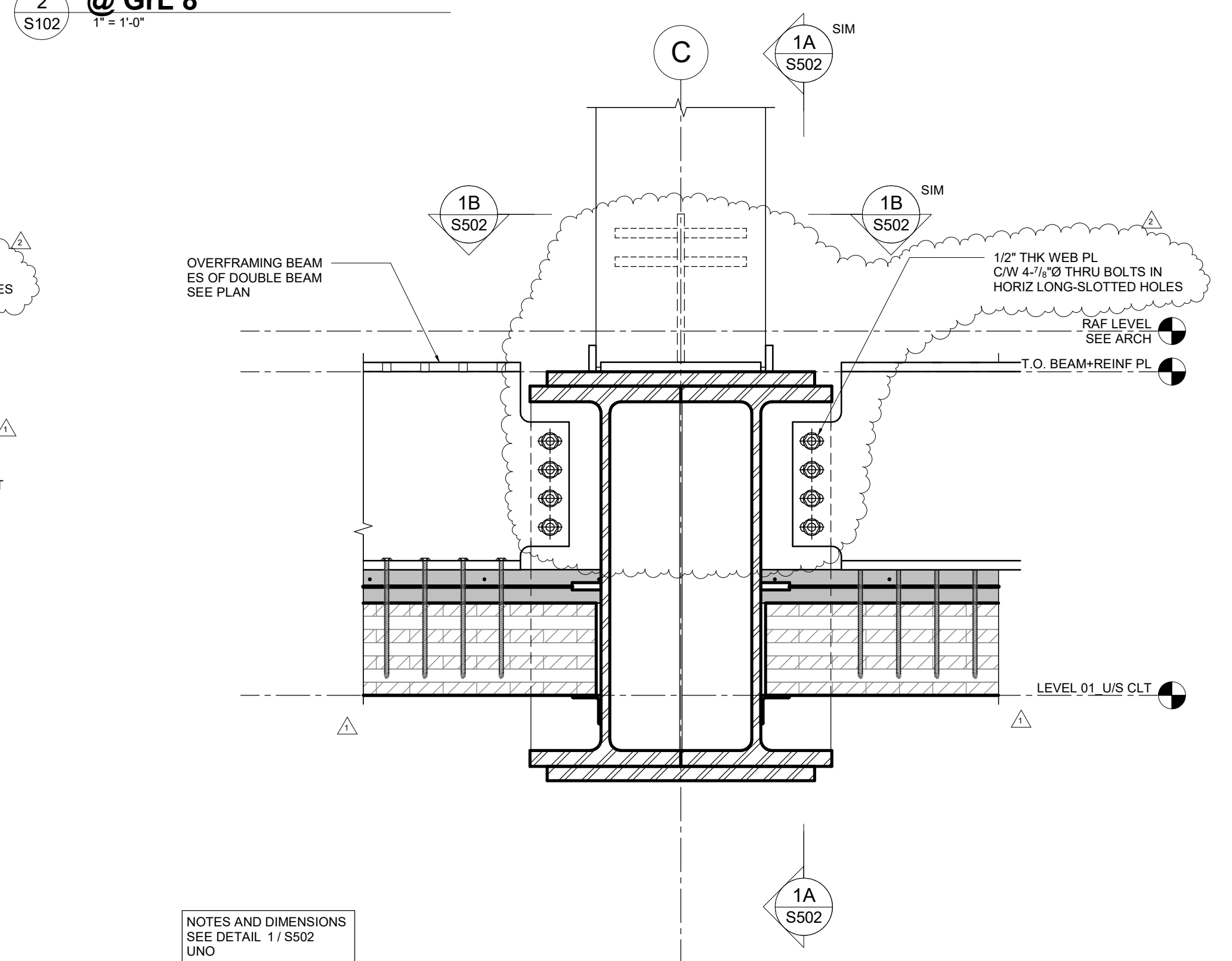
$$1\frac{1}{2}^{\circ} = 1^{\circ}-0'$$

NOTE:  
ALL STEEL TO BE GR 50  
AND COATED WITH INTUMESCENT PAINT

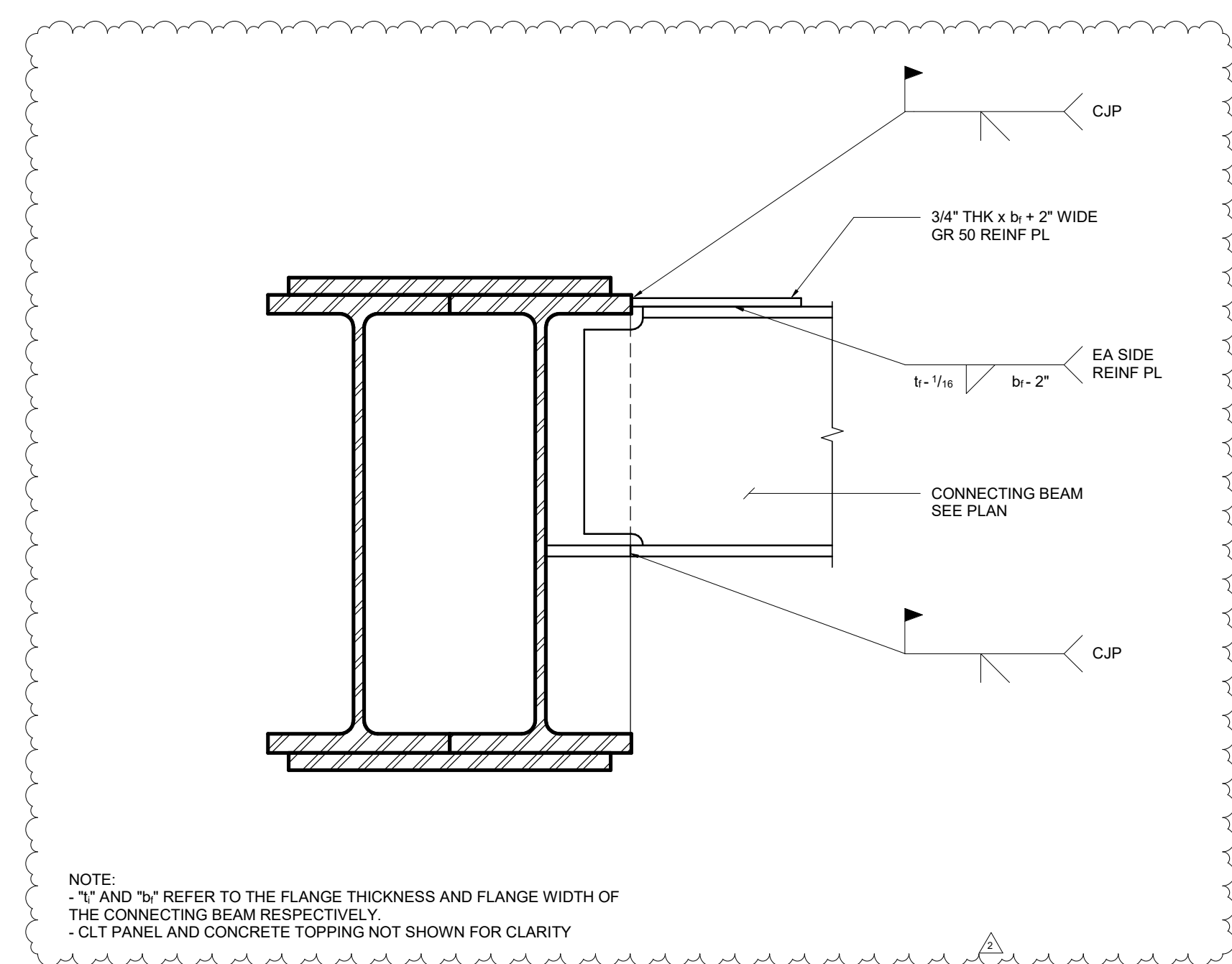
3  
S102 @ GrL 7  
1" = 1'-0"



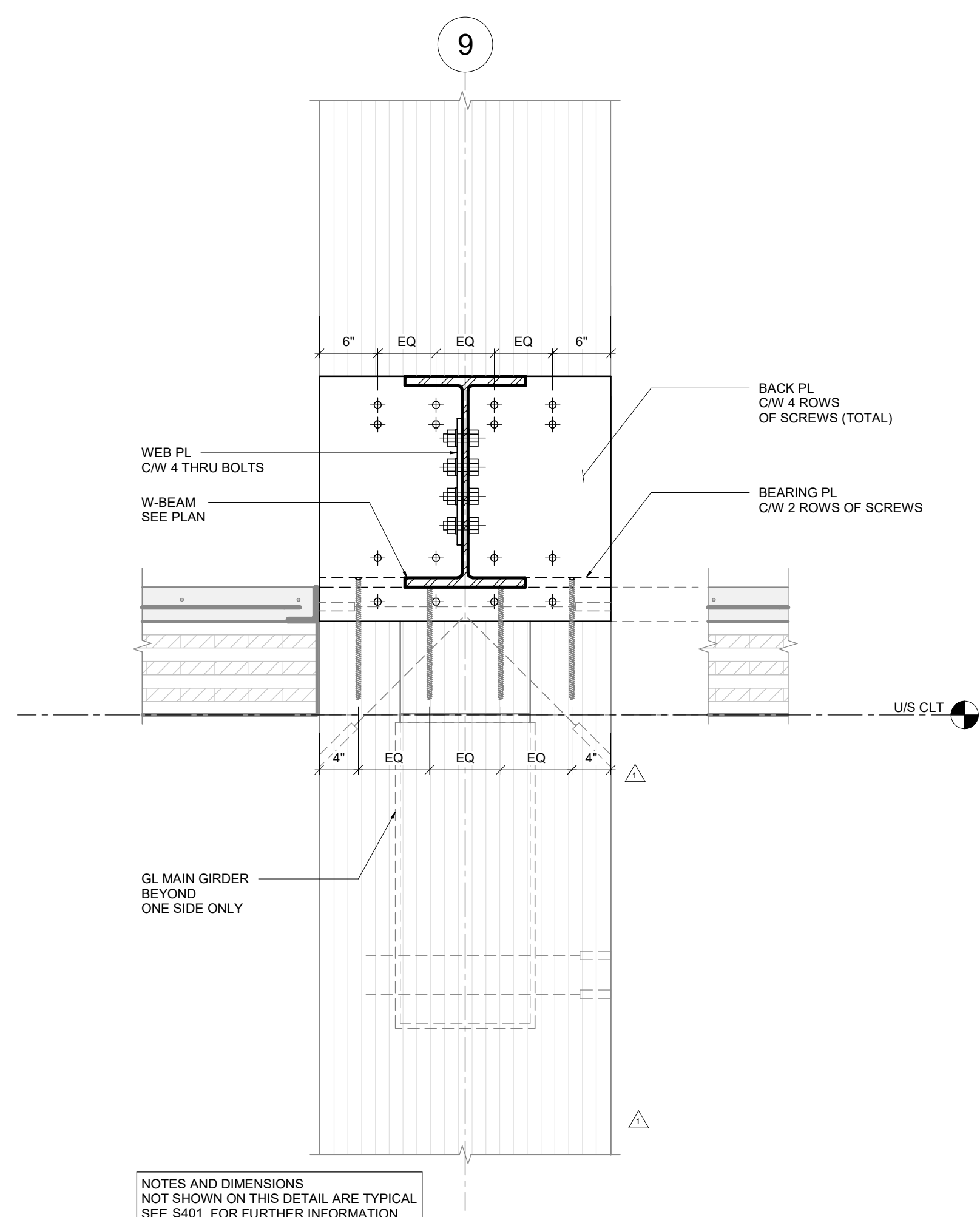
2  
S102 @ GrL 8  
1" = 1'-0"



1  
S102 @ G  
1" = 1'-0"

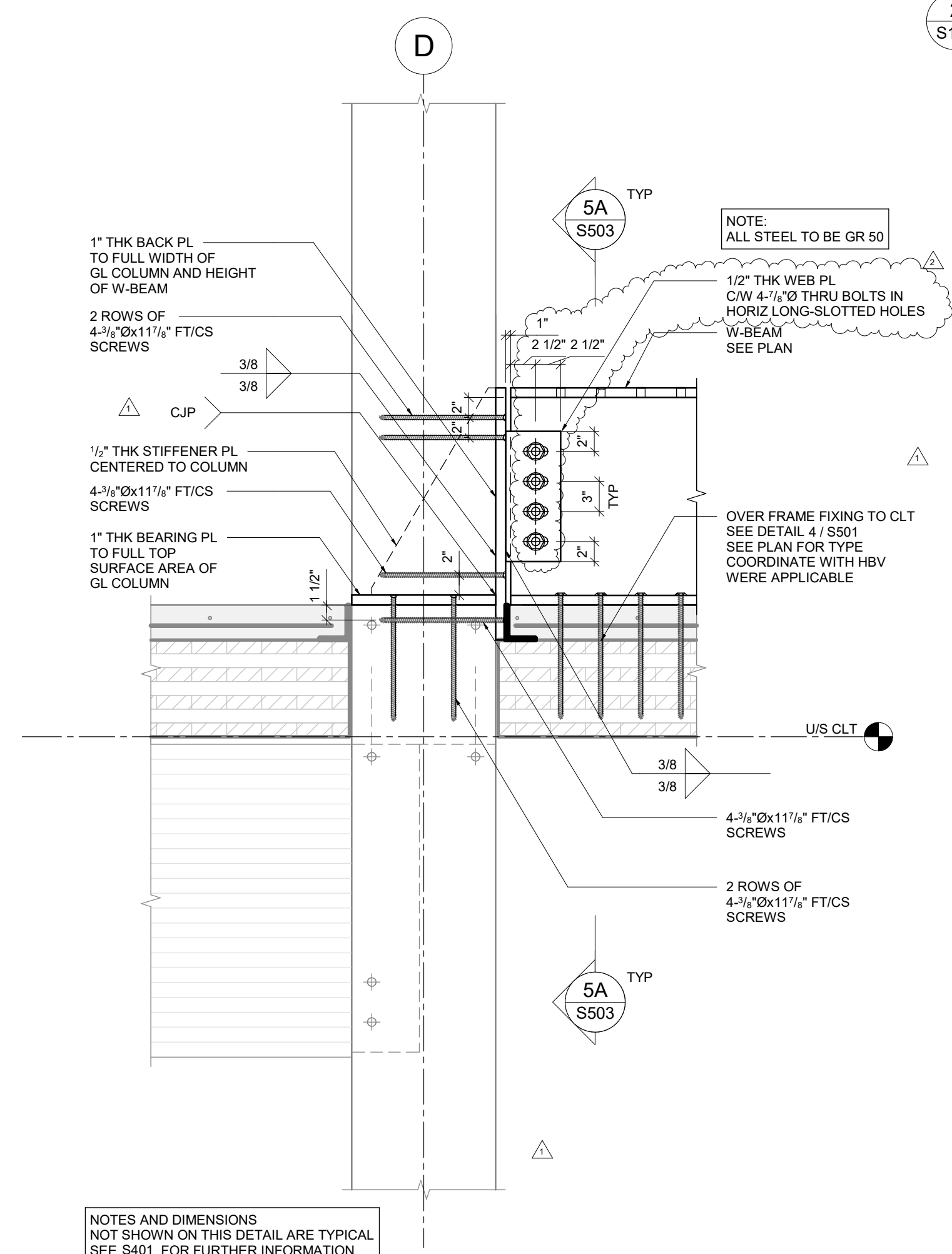


6 OFF.  
1° = 1°-0'



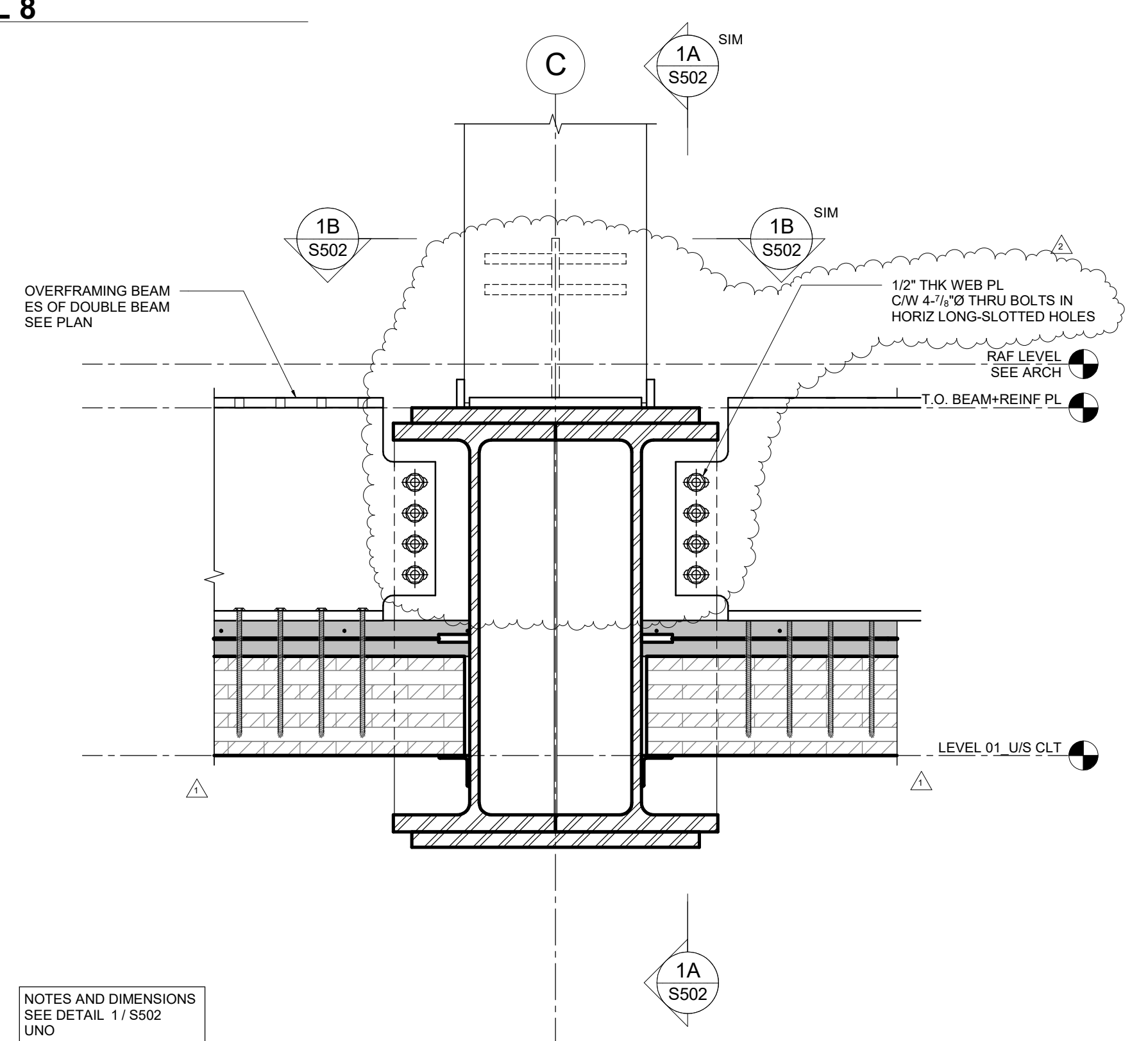
## S503

NOTES AND DIMENSIONS  
NOT SHOWN ON THIS DETAIL ARE TYPICAL  
SEE S401 FOR FURTHER INFORMATION



## S102

NOTES AND DIMENSIONS  
NOT SHOWN ON THIS DETAIL ARE TYPIC  
SEE \$401 FOR FURTHER INFORMATION

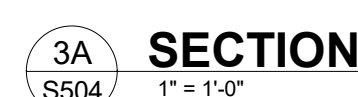


1  
S102 @ G  
1" = 1'-0"

## STEEL DETAILS

# S503

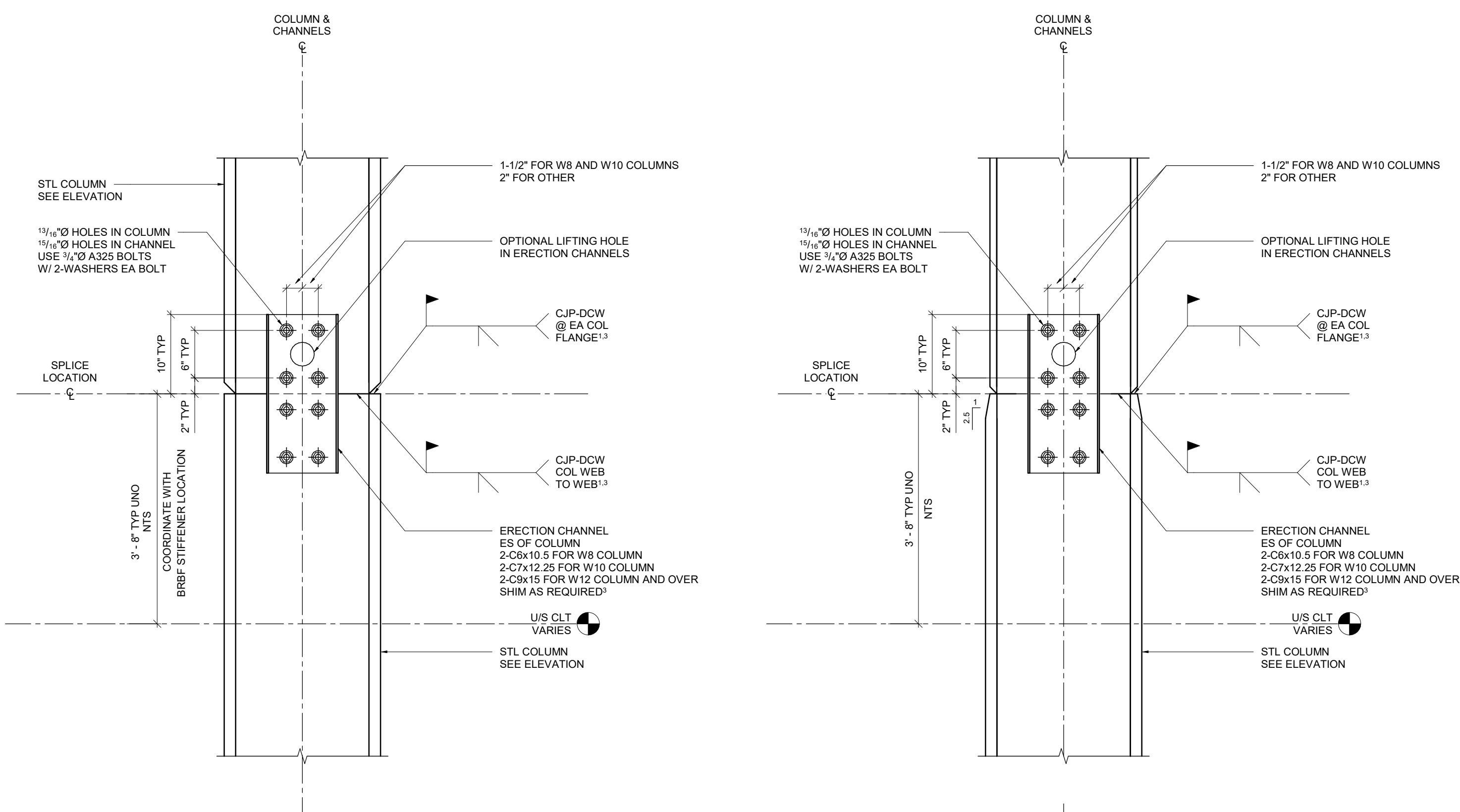
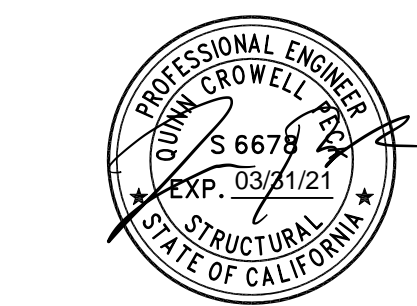




**1265 Borregas**  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

CHECKED BY: \_\_\_\_\_  
ISSUE DATE: 9 MAR 2021  
PROJECT NO: 1804



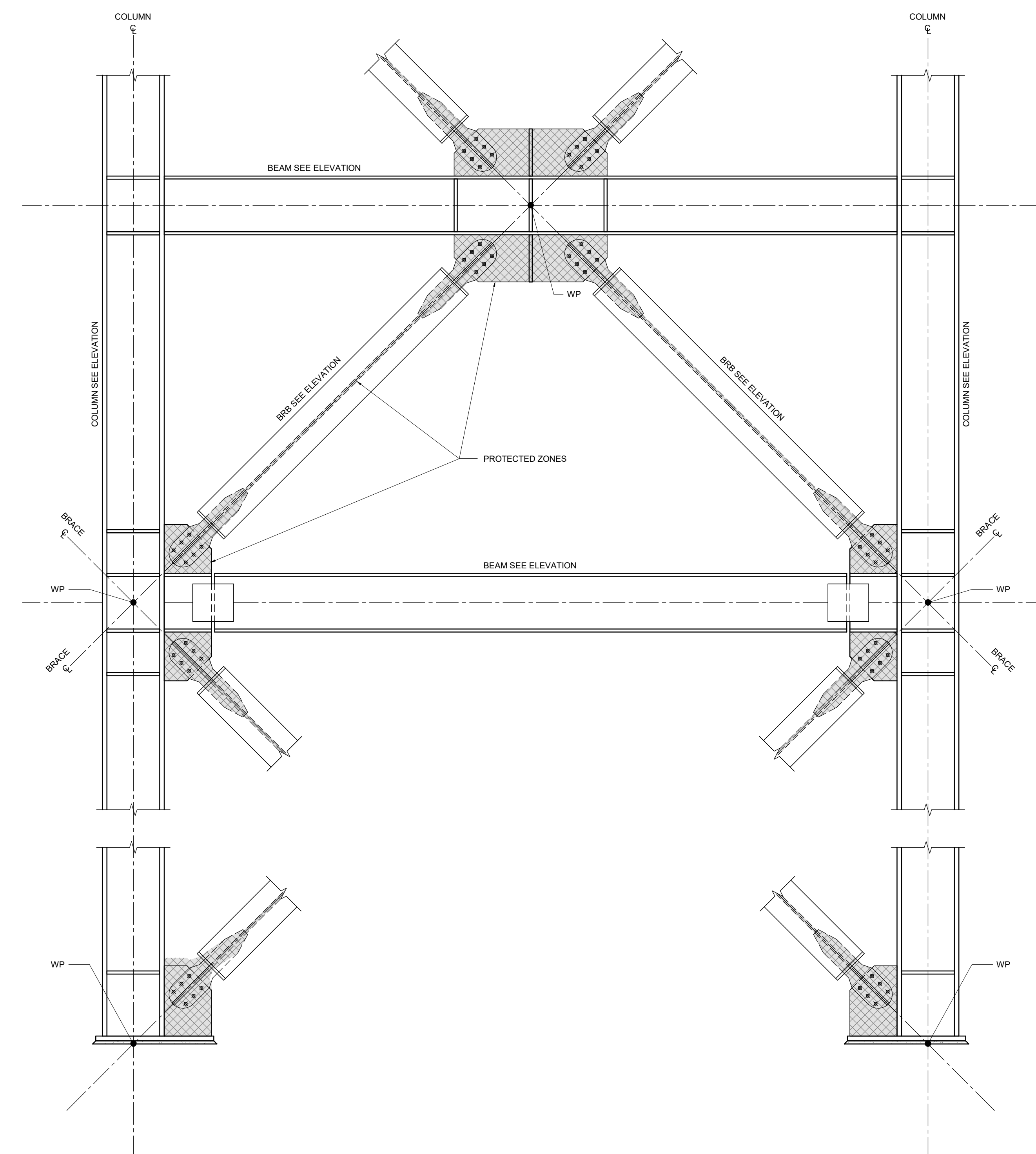


- NOTES:**
1. WELDS DESIGNATED AS DEMAND CRITICAL (DCW) SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 8.3 OF AWS D1.8
  2. WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AWS D1.1 AND D1.8 AND BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
  3. WELD COLUMN FLANGES FIRST. REMOVE ERECTION CHANNELS. WELD COLUMN WEB.

**9 TYP SFRS COLUMN SPLICE**  
1/2" = 1'-0"

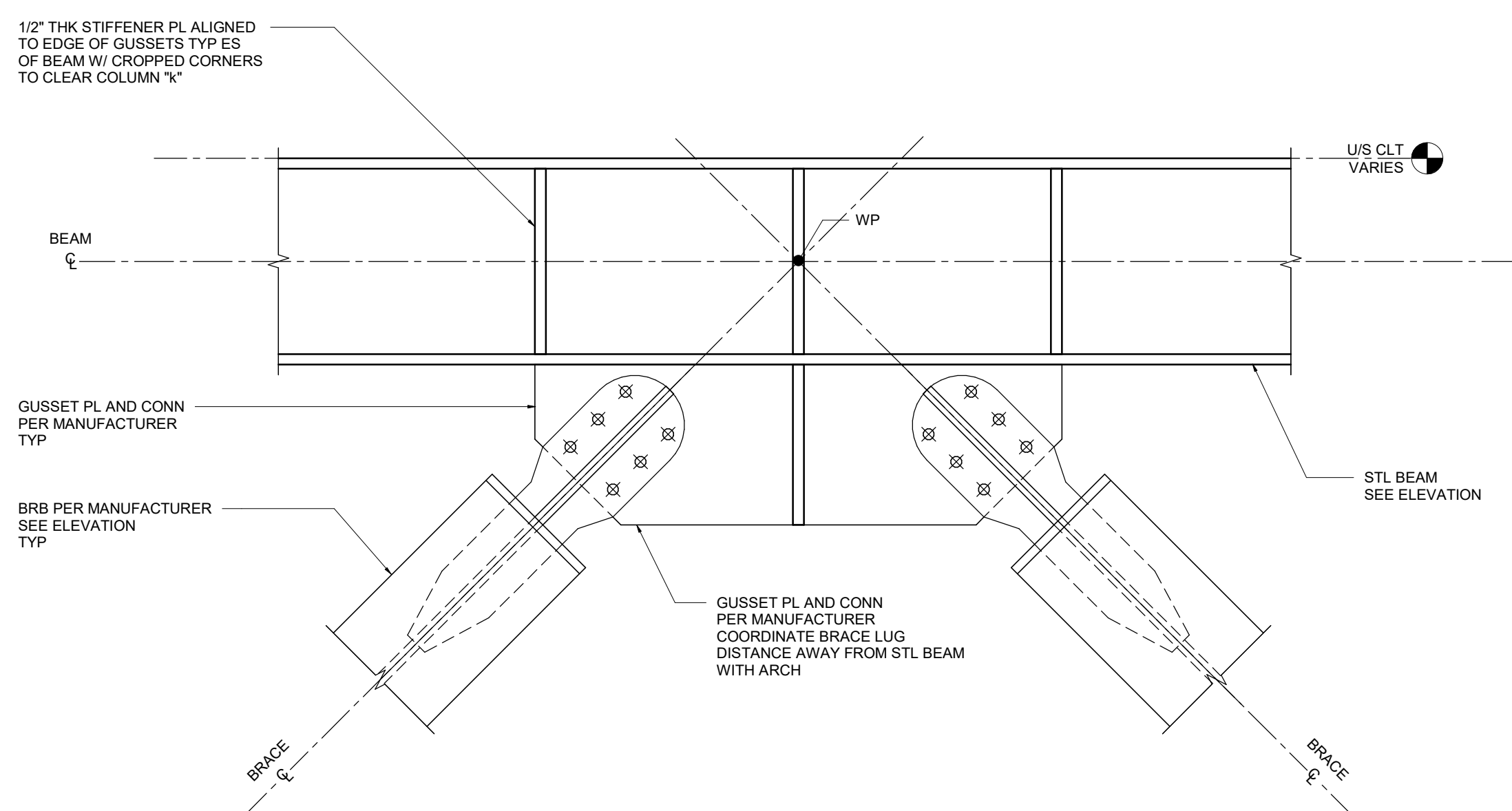
- NOTES:**
1. WELDS DESIGNATED AS DEMAND CRITICAL (DCW) SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 8.3 OF AWS D1.8
  2. WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AWS D1.1 AND D1.8 AND BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
  3. WELD COLUMN FLANGES FIRST. REMOVE ERECTION CHANNELS. WELD COLUMN WEB.
  4. THIS DETAIL SHALL APPLY WHERE THE SFRS COLUMN SIZE ABOVE AND BELOW THE COLUMN SPLICE IS DIFFERENT
  5. TAPERED TRANSITIONS SHALL BE IN ACCORDANCE WITH AWS D1.8 CLAUSE 4.2. TRANSITION SLOPE SHALL NOT EXCEED 1 IN 2-1/2. TRANSITIONS SHALL BE ACCOMPLISHED BY CHAMFERING THE THICKER PART, TAPERING THE THINNER PART, SLOPING THE WELD METAL, OR BY A COMBINATION OF THESE.

**8 TYP SFRS COLUMN SPLICE - TAPERED TRANSITION**  
1/2" = 1'-0"

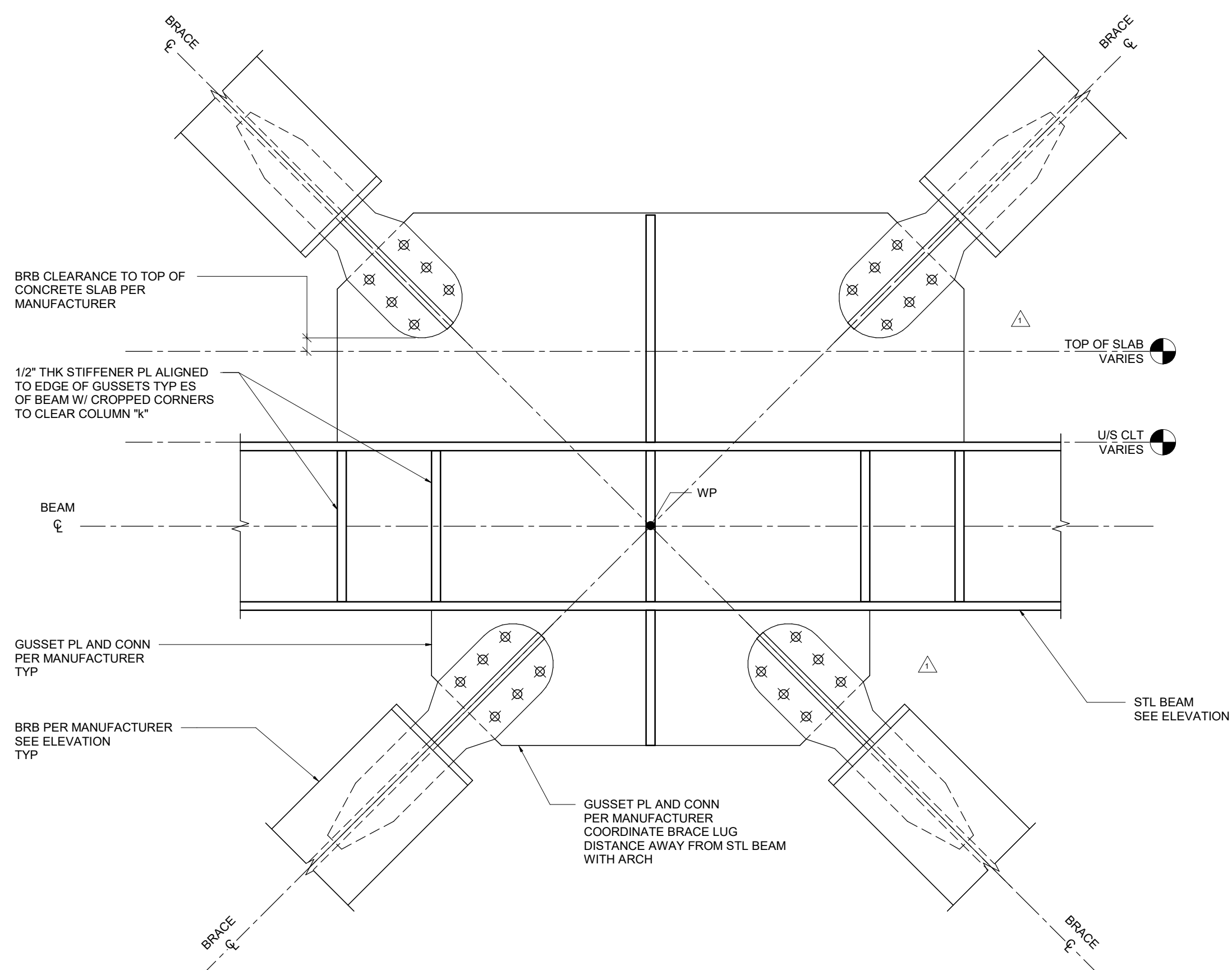


- NOTES:**
1. INDICATES PROTECTED ZONE, WHICH INCLUDES THE STEEL CORE OF THE BRBS AND ELEMENTS THAT CONNECT THE STEEL CORE TO THE BEAMS AND COLUMNS
  2. WELDED, BOLTED, SCREWED, SHOT-IN, OR OTHER ATTACHMENT METHODS USED FOR CONSTRUCTION ARE STRICTLY PROHIBITED WITHIN THE PROTECTED ZONE. THIS INCLUDES, BUT IS NOT LIMITED TO, ATTACHMENTS FOR PERIMETER EDGE ANGLES, EXTERIOR FACEDS, PARTITIONS, DUCT WORK, PIPING, ELECTRICAL, ETC.
  3. ANY DISCONTINUITIES WITHIN THE PROTECTED ZONE THAT RESULTED FROM FABRICATION OR ERECTION PROCEDURES SHALL BE REPAIRED AS REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD.
  4. ANY ATTACHMENTS WHICH PENETRATE THE BRB CASING SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND BRBF MANUFACTURER.

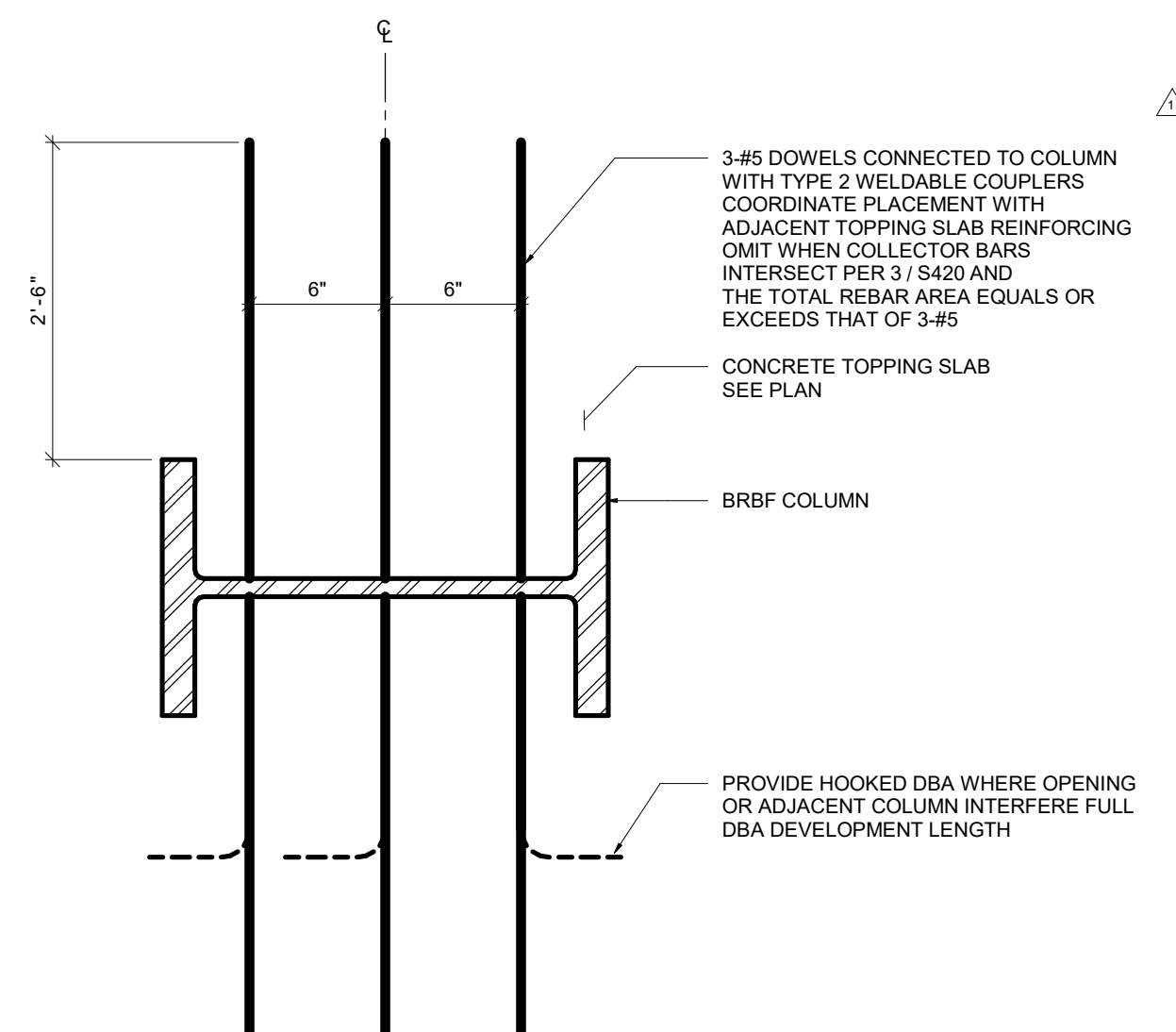
**7 TYP BRBF PROTECTED ZONES**  
1/2" = 1'-0"



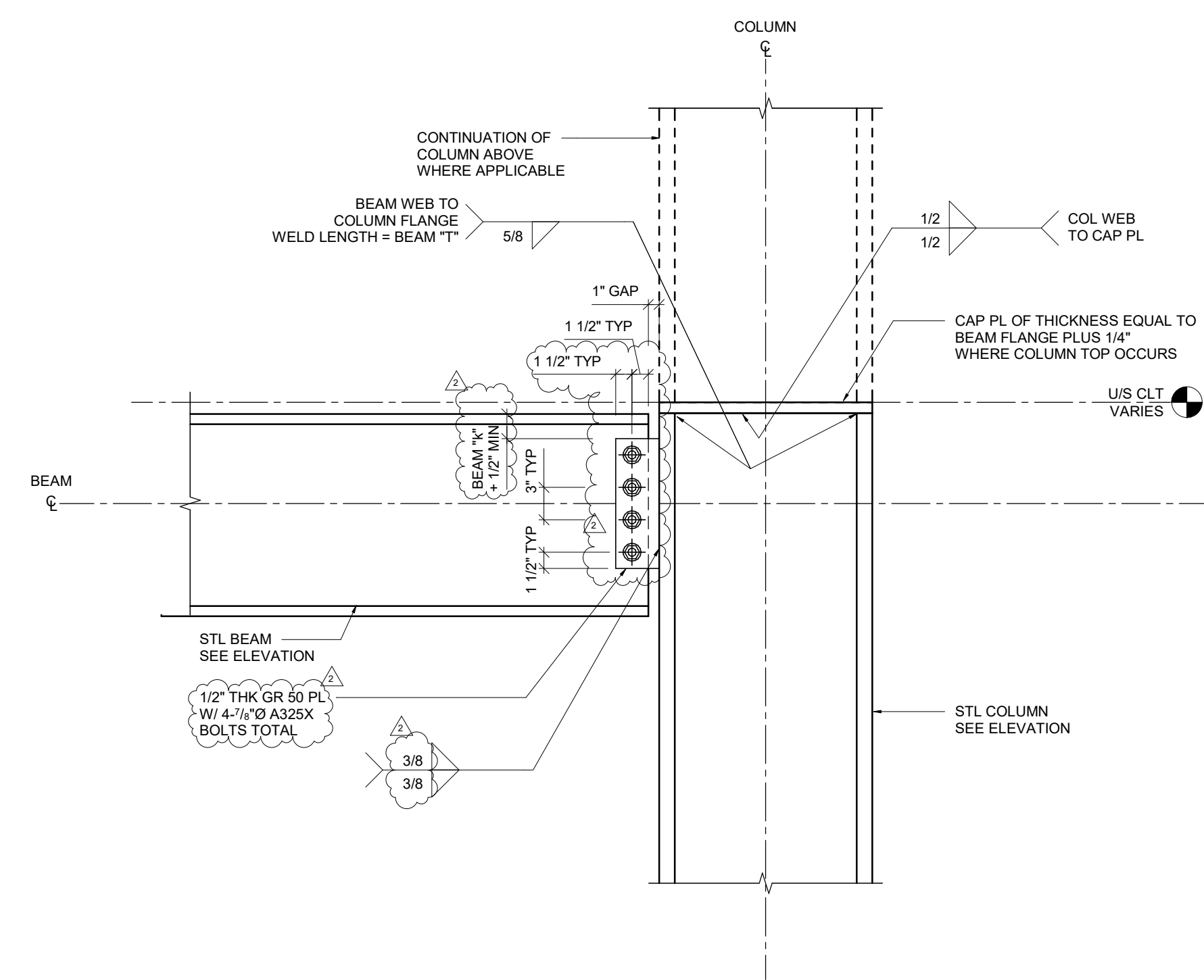
**4 BRBF CONN AT ROOF BEAM INTERSECTION**  
1/2" = 1'-0"



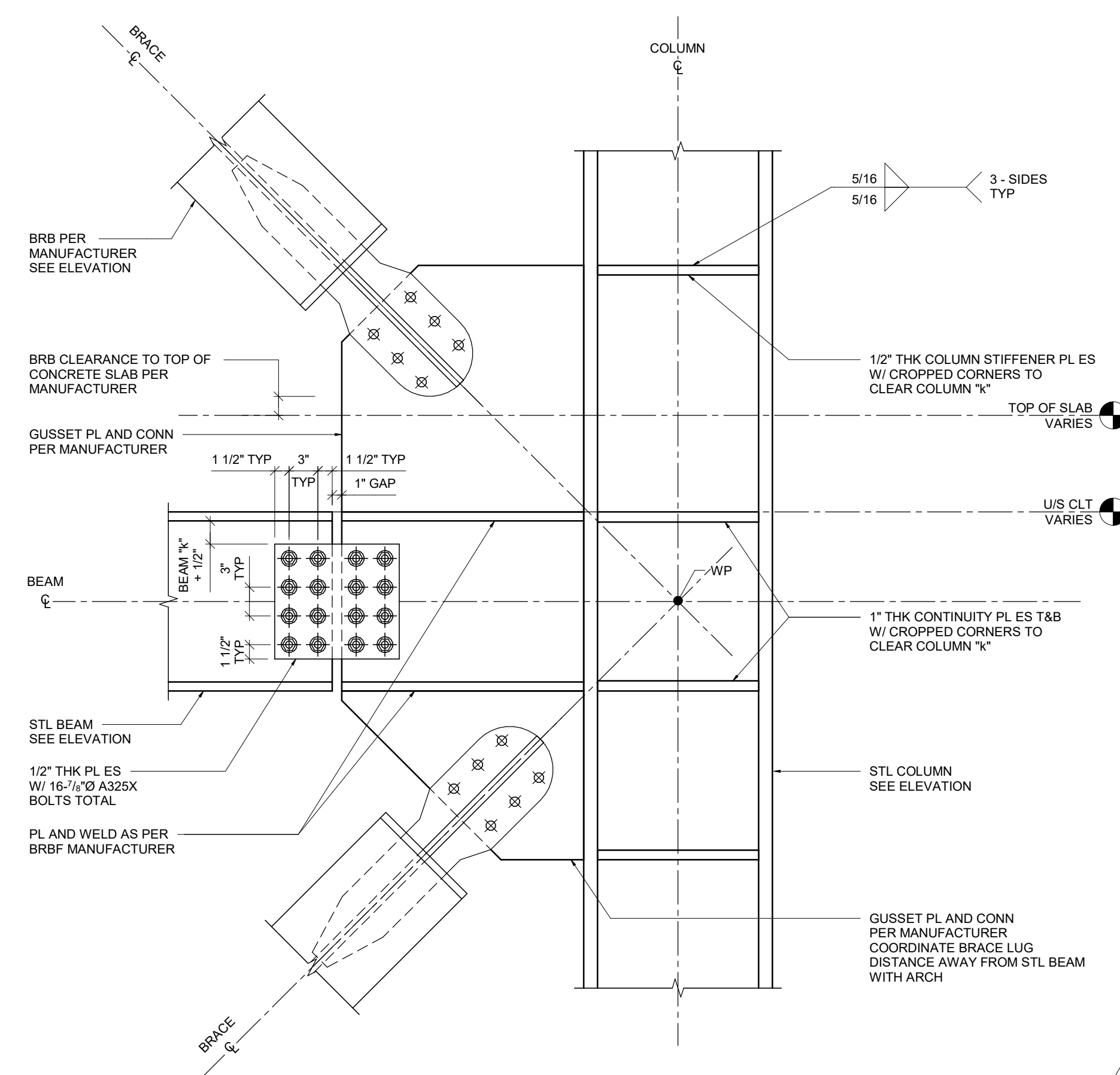
**5 BRBF CONN AT BEAM INTERSECTION**  
1/2" = 1'-0"



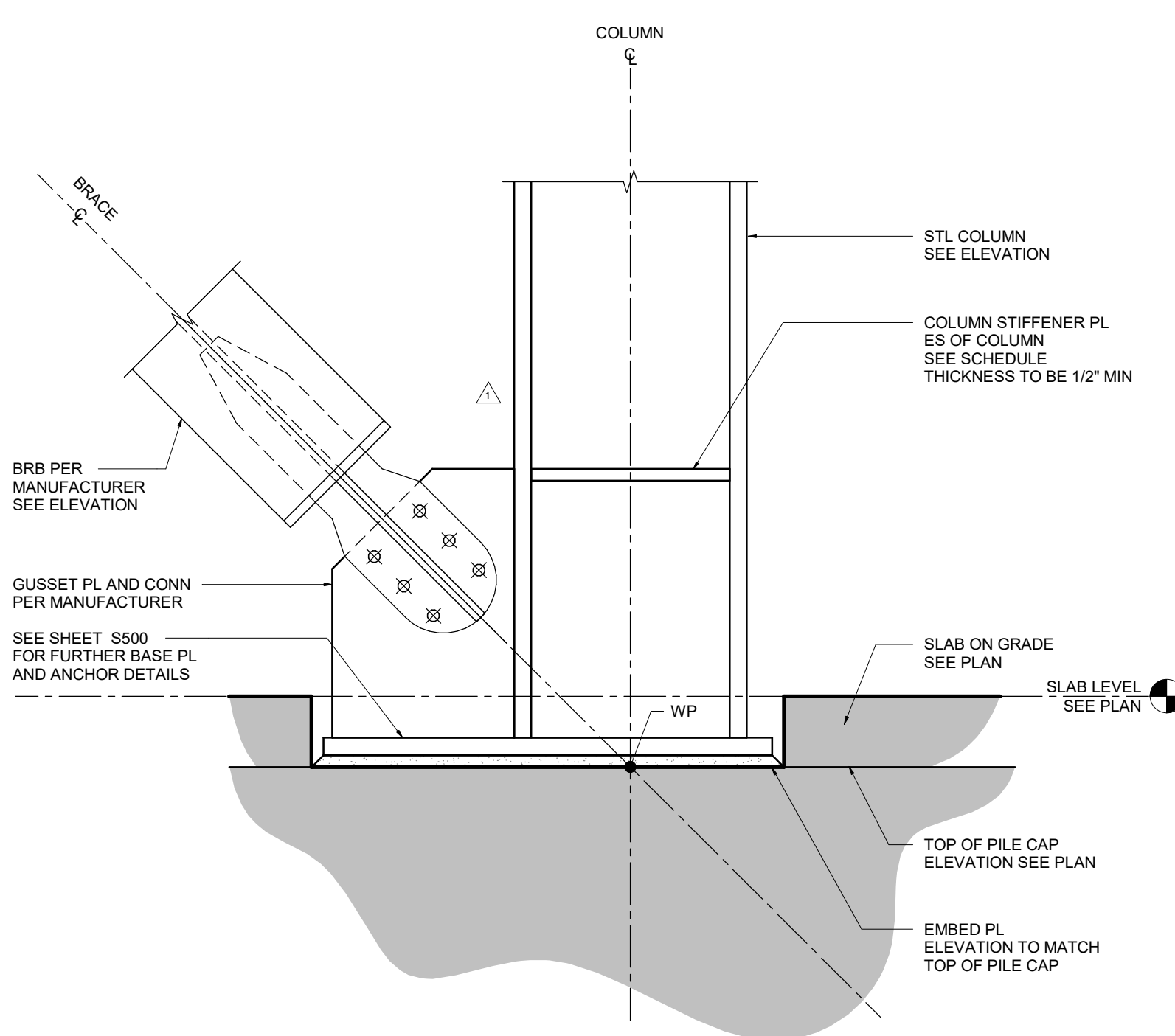
**6 TYPICAL BRBF COLUMN TO SLAB DETAIL**  
1/2" = 1'-0"



**3 TYP BRBF BEAM TO COLUMN CONNECTION W/O GUSSET PL**  
1/2" = 1'-0"



**2 BRBF CONN AT BEAM TO COLUMN INTERSECTION**  
1/2" = 1'-0"



**1 BRBF BASE CONN - AT FOUNDATION**  
1/2" = 1'-0"

**CSG CONSULTANTS, INC.**  
THESE PLANS AND DETAILS ARE  
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By **LOK C. PHIROZE W.**  
**YVONNE C.**

Date: **7/28/2020**  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

**1265 Borregas**

GOOGLE LLC  
SUNNYVALE, CA

| REVISIONS |            |            |
|-----------|------------|------------|
| 1         | PLAN CHECK | 06/01/2020 |
| 2         | RESPONSE 1 | 09/03/2020 |
| 3         | RESPONSE 2 | 08/05/2020 |

CHECKED BY: **SK**  
ISSUE DATE: **9 MAR 2020**  
PROJECT NO: **16040**

**TYPICAL BRBF DETAILS**  
**S510**

**PERMIT SET**





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CoreBrace Engineering Design Responsibilities are limited to the following:  
➤ Complete BRB design based on  $A_{ec}$  provided by E.O.R.  
➤ Design connection of BRB to gusset.  
➤ Design gusset connection to frame columns, beams and base plates.  
➤ Member sizes, dimensions, and elevations on CB sheets are shown for coordination only.  
Project documents shall govern. Verify in field as necessary.  
➤ See project documents for additional information; more stringent requirements on project documents shall govern.

General Notes:  
1. See "Casing Buried in Concrete Detail" where concrete slab will interfere with required BRB stroke.  
2. Structural steel detailer and erection team to consider erectability constraints when determining piece erection sequencing and field welding versus shop welding of stiffeners and gussets.  
3. Detail callouts are typical at the given frame location, UNO. See "CB" sheets for typical details.  
4. Single-line diagrams indicate work-point axis of members, UNO.

#### Abbreviations

|                |                            |      |                    |        |                               |
|----------------|----------------------------|------|--------------------|--------|-------------------------------|
| Abt            | About                      | DIA  | Diameter           | NTS    | Not to Scale                  |
| Approx         | Approximate                | DIM  | Dimension          | PL     | Plate                         |
| Asc            | Area of Steel Core         | dc   | Depth of column    | Req'd  | Required                      |
| bfb            | Width of flange of beam    | (E)  | Existing           | Sched  | Schedule                      |
| bfc            | Width of flange of column  | EQ   | Equal              | SIM    | Similar                       |
| Bldg           | Building                   | FF   | Finished Floor     | SYM    | Symmetrical                   |
| Bm             | Beam                       | FHG  | Full-Height Gusset | Stiff  | Stiffener                     |
| Bot            | Bottom                     | Flng | Flange             | tfb    | Thickness of flange of beam   |
| B.P.           | Base Plate                 | Galv | Galvanized         | tfc    | Thickness of flange of column |
| BRB            | Buckling-Restrained Brace  | Gsst | Gusset             | T&B    | Top and Bottom                |
| CB             | CoreBrace                  | Info | Information        | T.O.F. | Top of Footing                |
| CJP            | Complete Joint Penetration | LVL  | Level              | T.O.C  | Top of Concrete               |
| C <sub>l</sub> | Centerline                 | MAX  | Maximum            | twb    | Thickness of web of beam      |
| Col            | Column                     | MIN  | Minimum            | TYP    | Typical                       |
| Conc           | Concrete                   | N&FS | Near and Far Side  | UNO    | Unless Noted Otherwise        |
| Conn           | Connection                 | Nom  | Nominal            | WP     | WORK POINT                    |

#### NOTES:

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- DIMENSIONS, ELEVATIONS & MEMBER SIZES SHOWN FOR COORDINATION PURPOSES ONLY. PROJECT DOCUMENTS GOVERN. FIELD VERIFY AS NECESSARY.
- SINGLE-LINE DIAGRAMS INDICATE WORK-POINT AXIS OF MEMBERS, UNO.

#### Symbols Legend:

|  |  |
|--|--|
|  | X = BASE PL THICKNESS  |
|  | Y = GROUT THICKNESS  |
|  | INDICATES FRAMING OF GUSSET PL TO COLUMN WEB (WEAK AXIS)           |
|  | INDICATES FRAMING OF GUSSET PL TO COLUMN FLANGE (STRONG AXIS)      |
|  | INDICATES FRAMING OF GUSSET PL TO HSS COLUMN (SLOT GUSSET THROUGH) |

BRB-XX  
T.O.S. = X'-X"  
T.O.B.P. = X'-X"  
19##  
INDICATES BRB WITH CORE AREA SIZE OF XX in<sup>2</sup>  
RELATIVE DISTANCE TO TOP OF STEEL (FROM F.F. 0'-0")  
RELATIVE DISTANCE TO TOP OF BASE (FROM F.F. 0'-0")  
BRACE MARK IDENTIFICATION

CSG CONSULTANTS, INC.  
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By   
Date 7/28/2020  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS



1265 Borregas  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
1 Plan Check  
2 Plan Check  
9 MAR 2020  
8 MAY 2020

CHECKED BY  
ISSUE DATE  
PROJECT NO.  
06 JAN 2020  
18030227

COREBRACE  
BRB ELEVATIONS

S515

PERMIT SET





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| Conn           | Connection                 | Nom  | Nominal            | WP     | WORK POINT                    |

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- DIMENSIONS, ELEVATIONS & MEMBER SIZES SHOWN FOR COORDINATION PURPOSES ONLY; PROJECT DOCUMENTS GOVERN. FIELD VERIFY AS NECESSARY.
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|--|--|
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RELATIVE DISTANCE TO TOP OF STEEL (FROM F.F. 0'-0")  
RELATIVE DISTANCE TO TOP OF BASE (FROM F.F. 0'-0")  
BRACE MARK IDENTIFICATION

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By:   
LOK C. PHIROZE W.,  
YVONNE C.  
Date: 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS



1265 Borregas  
GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

REVISIONS  
1 Plan Check Response 1 9 MAR 2020  
2 Plan Check Response 2 9 MAY 2020

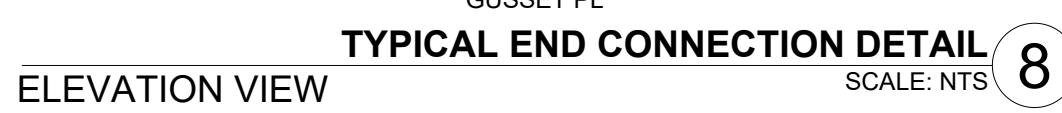
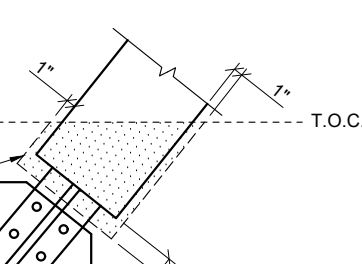
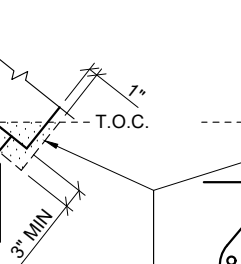
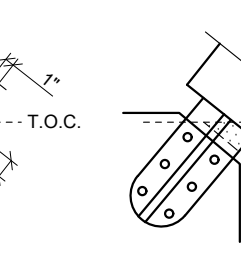
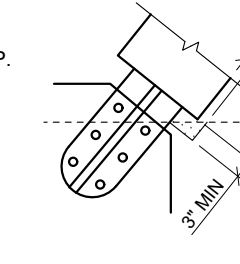
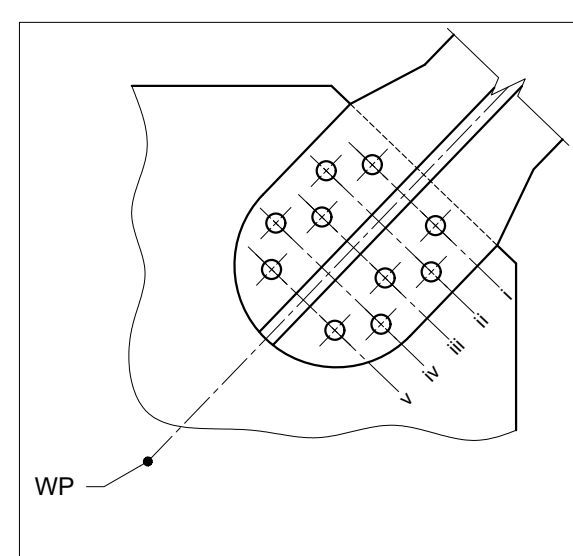
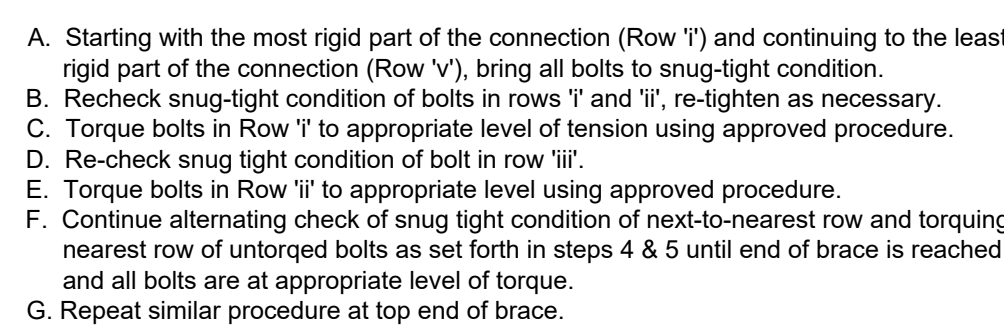
CHECKED BY: JX  
ISSUE DATE: 06 JAN 2020  
PROJECT NO: 18030227

COREBRACE  
BRB ELEVATIONS

S516

PERMIT SET





⑫ STIFF PL TO EACH SIDE OF GUSSET. WIDTH TO MATCH BEAM FLANGE WIDTH. ( $t_{fb} + \frac{1}{8}$ " MINIMUM THICKNESS) SEE NOTE 5.

⑬ WELD BOTH SIDES THROUGH BM DEPTH WITH  $W_c$  WELD. IF BRACE ON OPPOSITE SIDE IS SPECIFIED, USE THE LARGER  $W_c$  WELD.



GOOGLE LLC  
1265 BORREGAS AVE.  
SUNNYVALE CA

1 Plan Che  
Response

## COREBRACE BRB DETAILS

**S517**

## PERMIT S



| Casing   |           |      |       |      |      |     |                |                |        |                |                |                |                |                |                |                 |                |                 |       |      |                 |                |                |                 |                   |                |                |      |      |      |                |                  |                               |                 |                 | F <sub>ysc</sub> |                  | CB                                   |                  |     |     |      |      |
|----------|-----------|------|-------|------|------|-----|----------------|----------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-------|------|-----------------|----------------|----------------|-----------------|-------------------|----------------|----------------|------|------|------|----------------|------------------|-------------------------------|-----------------|-----------------|------------------|------------------|--------------------------------------|------------------|-----|-----|------|------|
| CB-ID    | EOR-ID    | Line | Grids | Lvls | Mark | Qty | L <sub>b</sub> | L <sub>c</sub> | Type   | H <sub>c</sub> | W <sub>c</sub> | t <sub>c</sub> | W <sub>T</sub> | W <sub>L</sub> | W <sub>I</sub> | L <sub>SL</sub> | X <sub>L</sub> | L <sub>Lg</sub> | a     | c    | L <sub>Lc</sub> | t <sub>L</sub> | D <sub>#</sub> | D <sub>WL</sub> | L <sub>WL-i</sub> | n <sub>i</sub> | n <sub>o</sub> | g    | s    | e    | b <sub>r</sub> | L <sub>ysc</sub> | L <sup>y</sup> <sub>ysc</sub> | W <sub>sc</sub> | t <sub>sc</sub> | A <sub>sc</sub>  | K <sub>eff</sub> | K <sub>r</sub>                       | P <sub>ypc</sub> | Min | Max | Wt   |      |
| #        | #         |      | #     | #    | #    | #   |                |                | tp     | in             | in             |                |                |                |                |                 |                |                 | in    | in   | in              | in             | in             | in              | in                | #              | #              | in   | in   | in   | in             | in               | in                            | in              | in              | in <sup>2</sup>  | K/in             | (K <sub>yp</sub> /K <sub>Lwp</sub> ) | kip              | ksi | ksi | lb   |      |
| CB-6.00  | BRB-6.00  | 2    | C-C-5 | 4    | 1901 | 1   | 355 6/16       | 308.00         | t      | 10             | 10             | 0.3750         | 6.00           | 7.63           | 6.65           | 29.42           | 5.82           | 16.42           | 4.00  | 3.00 | 11.82           | 0.75           | 4.00           | 4.00            | 14.82             | 4              | 0              | 0.00 | 4.00 | 1.63 | 1.02           | 284.89           | 284.89                        | 6.000           | 1.00            | 6.00             | 558              | 1.30                                 | 228              | 38  | 46  | 4087 |      |
| CB-6.00  | BRB-6.00  | 2    | C-5-D | 4    | 1901 | 1   | 355 6/16       | 308.00         | t      | 10             | 10             | 0.3750         | 6.00           | 7.63           | 6.65           | 29.42           | 5.82           | 16.42           | 4.00  | 3.00 | 11.82           | 0.75           | 4.00           | 4.00            | 14.82             | 4              | 0              | 0.00 | 4.00 | 1.63 | 1.02           | 284.89           | 284.89                        | 6.000           | 1.00            | 6.00             | 558              | 1.30                                 | 228              | 38  | 46  | 4087 |      |
| CB-16.00 | BRB-16.00 | 2    | C-C-5 | 2    | 1902 | 1   | 338 1/16       | 274.88         | t      | 14             | 14             | 0.3125         | 9.14           | 12.00          | 8.00           | 40.90           | 6.56           | 25.09           | 4.00  | 2.25 | 16.13           | 1.50           | 5.00           | 8.00            | 6.56              | 5              | 4              | 1.88 | 5.25 | 1.63 | 3.53           | 243.13           | 243.13                        | 9.143           | 1.75            | 16.00            | 1648             | 1.44                                 | 608              | 38  | 46  | 7566 |      |
| CB-16.00 | BRB-16.00 | 2    | C-5-D | 2    | 1902 | 1   | 338 1/16       | 274.88         | t      | 14             | 14             | 0.3125         | 9.14           | 12.00          | 8.00           | 40.90           | 6.56           | 25.09           | 4.00  | 2.25 | 16.13           | 1.50           | 5.00           | 8.00            | 6.56              | 5              | 4              | 1.88 | 5.25 | 1.63 | 3.53           | 243.13           | 243.13                        | 9.143           | 1.75            | 16.00            | 1648             | 1.44                                 | 608              | 38  | 46  | 7566 |      |
| CB-18.00 | BRB-18.00 | 2    | C-C-5 | G    | 1903 | 1   | 226 3/16       | 163.75         | t      | 16             | 16             | 0.3125         | 10.29          | 14.50          | 10.50          | 41.32           | 9.69           | 24.72           | 4.00  | 2.25 | 20.04           | 1.50           | 6.00           | 9.00            | 9.69              | 6              | 5              | 3.13 | 4.00 | 1.63 | 4.15           | 124.15           | 124.15                        | 10.286          | 1.75            | 18.00            | 3305             | 1.70                                 | 684              | 38  | 46  | 6326 |      |
| CB-18.00 | BRB-18.00 | 2    | C-5-D | G    | 1903 | 1   | 226 3/16       | 163.75         | t      | 16             | 16             | 0.3125         | 10.29          | 14.50          | 10.50          | 41.32           | 9.69           | 24.72           | 4.00  | 2.25 | 20.04           | 1.50           | 6.00           | 9.00            | 9.69              | 6              | 5              | 3.13 | 4.00 | 1.63 | 4.15           | 124.15           | 124.15                        | 10.286          | 1.75            | 18.00            | 3305             | 1.70                                 | 684              | 38  | 46  | 6326 |      |
| CB-3.50  | BRB-3.50  | 7    | C-C-5 | 5    | 1904 | 1   | 195 7/16       | 162.25         | t      | 8              | 8              | 0.2500         | 4.67           | 7.38           | 5.01           | 22.35           | 4.07           | 9.35            | 4.00  | 3.00 | 10.07           | 0.50           | 3.00           | 3.00            | 13.07             | 2              | 0              | 0.00 | 5.00 | 1.63 | 0.96           | 142.57           | 142.57                        | 4.667           | 0.75            | 3.50             | 605              | 1.44                                 | 133              | 38  | 46  | 1355 |      |
| CB-3.50  | BRB-3.50  | 7    | C-5-D | 5    | 1904 | 1   | 195 7/16       | 162.25         | t      | 8              | 8              | 0.2500         | 4.67           | 7.38           | 5.01           | 22.35           | 4.07           | 9.35            | 4.00  | 3.00 | 10.07           | 0.50           | 3.00           | 3.00            | 13.07             | 2              | 0              | 0.00 | 5.00 | 1.63 | 0.96           | 142.57           | 142.57                        | 4.667           | 0.75            | 3.50             | 605              | 1.44                                 | 133              | 38  | 46  | 1355 |      |
| CB-5.00  | BRB-5.00  | 7    | C-C-5 | 4    | 1905 | 1   | 191 14/16      | 153.56         | t      | 10             | 10             | 0.2500         | 5.00           | 7.63           | 5.18           | 24.92           | 3.98           | 11.92           | 4.00  | 3.00 | 9.98            | 0.75           | 4.00           | 4.00            | 12.98             | 3              | 0              | 0.00 | 3.75 | 1.63 | 1.02           | 134.10           | 134.10                        | 5.000           | 1.00            | 5.00             | 906              | 1.51                                 | 190              | 38  | 46  | 1970 |      |
| CB-5.00  | BRB-5.00  | 7    | C-5-D | 4    | 1905 | 1   | 191 14/16      | 153.56         | t      | 10             | 10             | 0.2500         | 5.00           | 7.63           | 5.18           | 24.92           | 3.98           | 11.92           | 4.00  | 3.00 | 9.98            | 0.75           | 4.00           | 4.00            | 12.98             | 3              | 0              | 0.00 | 3.75 | 1.63 | 1.02           | 134.10           | 134.10                        | 5.000           | 1.00            | 5.00             | 906              | 1.51                                 | 190              | 38  | 46  | 1970 |      |
| CB-9.00  | BRB-9.00  | 7    | C-C-5 | 3    | 1906 | 1   | 194 10/16      | 144.50         | t      | 12             | 12             | 0.2500         | 7.20           | 8.88           | 8.56           | 32.31           | 7.89           | 17.81           | 4.00  | 3.00 | 15.39           | 0.75           | 5.00           | 5.00            | 7.89              | 5              | 0              | 0.00 | 3.25 | 1.63 | 1.26           | 114.25           | 114.25                        | 7.200           | 1.25            | 9.00             | 1777             | 1.65                                 | 342              | 38  | 46  | 2765 |      |
| CB-9.00  | BRB-9.00  | 7    | C-5-D | 3    | 1906 | 1   | 194 10/16      | 144.50         | t      | 12             | 12             | 0.2500         | 7.20           | 8.88           | 8.56           | 32.31           | 7.89           | 17.81           | 4.00  | 3.00 | 15.39           | 0.75           | 5.00           | 5.00            | 7.89              | 5              | 0              | 0.00 | 3.25 | 1.63 | 1.26           | 114.25           | 114.25                        | 7.200           | 1.25            | 9.00             | 1777             | 1.65                                 | 342              | 38  | 46  | 2765 |      |
| CB-9.00  | BRB-9.00  | 7    | C-C-5 | 2    | 1907 | 1   | 188 14/16      | 138.75         | t      | 12             | 12             | 0.2500         | 7.20           | 8.88           | 8.56           | 32.31           | 7.89           | 17.81           | 4.00  | 3.00 | 15.39           | 0.75           | 5.00           | 5.00            | 7.89              | 5              | 0              | 0.00 | 3.25 | 1.63 | 1.26           | 108.47           | 108.47                        | 7.200           | 1.25            | 9.00             | 1839             | 1.70                                 | 342              | 38  | 46  | 2672 |      |
| CB-9.00  | BRB-9.00  | 7    | C-5-D | 2    | 1907 | 1   | 188 14/16      | 138.75         | t      | 12             | 12             | 0.2500         | 7.20           | 8.88           | 8.56           | 32.31           | 7.89           | 17.81           | 4.00  | 3.00 | 15.39           | 0.75           | 5.00           | 5.00            | 7.89              | 5              | 0              | 0.00 | 3.25 | 1.63 | 1.26           | 108.47           | 108.47                        | 7.200           | 1.25            | 9.00             | 1839             | 1.70                                 | 342              | 38  | 46  | 2672 |      |
| CB-14.00 | BRB-14.00 | 7    | C-C-5 | G    | 1908 | 1   | 204 13/16      | 141.63         | t      | 14             | 14             | 0.3125         | 9.33           | 9.75           | 8.20           | 40.96           | 7.12           | 24.36           | 4.00  | 3.00 | 16.72           | 1.25           | 5.00           | 8.00            | 7.12              | 4              | 4              | 0.88 | 5.75 | 1.63 | 2.27           | 108.66           | 108.66                        | 9.333           | 1.50            | 14.00            | 2831             | 1.69                                 | 532              | 38  | 46  | 4111 |      |
| CB-14.00 | BRB-14.00 | 7    | C-5-D | G    | 1908 | 1   | 204 13/16      | 141.63         | t      | 14             | 14             | 0.3125         | 9.33           | 9.75           | 8.20           | 40.96           | 7.12           | 24.36           | 4.00  | 3.00 | 16.72           | 1.25           | 5.00           | 8.00            | 7.12              | 4              | 4              | 0.88 | 5.75 | 1.63 | 2.27           | 108.66           | 108.66                        | 9.333           | 1.50            | 14.00            | 2831             | 1.69                                 | 532              | 38  | 46  | 4111 |      |
| CB-4.00  | BRB-4.00  | 8    | C-C-5 | 5    | 1909 | 1   | 194 15/16      | 151.63         | t      | 10             | 10             | 0.2500         | 5.25           | 7.63           | 6.47           | 27.42           | 5.58           | 14.42           | 4.00  | 3.00 | 11.58           | 0.50           | 3.00           | 3.00            | 5.58              | 3              | 0              | 0.00 | 5.00 | 1.63 | 1.02           | 128.94           | 112.82                        | 4.000           | 1.00            | 4.00             | 782              | 1.63                                 | 152              | 38  | 46  | 1919 |      |
| CB-4.00  | BRB-4.00  | 8    | C-5-D | 5    | 1909 | 1   | 194 15/16      | 151.63         | t      | 10             | 10             | 0.2500         | 5.25           | 7.63           | 6.47           | 27.42           | 5.58           | 14.42           | 4.00  | 3.00 | 11.58           | 0.50           | 3.00           | 3.00            | 5.58              | 3              | 0              | 0.00 | 5.00 | 1.63 | 1.02           | 128.94           | 112.82                        | 4.000           | 1.00            | 4.00             | 782              | 1.63                                 | 152              | 38  | 46  | 1919 |      |
| CB-7.00  | BRB-7.00  | 8    | C-C-5 | 4    | 1910 | 1   | 191            |                | 147.38 | t              | 10             | 10             | 0.2500         | 5.60           | 8.88           | 7.07            | 29.06          | 6.02            | 14.56 | 4.00 | 3.00            | 13.52          | 0.75           | 4.00            | 5.00              | 6.02           | 4              | 0    | 0.00 | 3.25 | 1.63           | 1.26             | 120.82                        | 120.82          | 5.600           | 1.25             | 7.00             | 1345                                 | 1.60             | 266 | 38  | 46   | 2062 |
| CB-7.00  | BRB-7.00  | 8    | C-5-D | 4    | 1910 | 1   | 191            |                | 147.38 | t              | 10             | 10             | 0.2500         | 5.60           | 8.88           | 7.07            | 29.06          | 6.02            | 14.56 | 4.00 | 3.00            | 13.52          | 0.75           | 4.00            | 5.00              | 6.02           | 4              | 0    | 0.00 | 3.25 | 1.63           | 1.26             | 120.82                        | 120.82          | 5.600           | 1.25             | 7.00             | 1345                                 | 1.60             | 266 | 38  | 46   | 2062 |
| CB-9.50  | BRB-9.50  | 8    | C-C-5 | 3    | 1911 | 1   | 194 4/16       | 137.56         | t      | 14             | 14             | 0.3125         | 7.60           | 9.00           | 7.35           | 35.60           | 6.38           | 21.10           | 4.00  | 3.00 | 13.88           | 1.00           | 5.00           | 6.00            | 6.38              | 6              | 0              | 0.00 | 3.25 | 1.63 | 1.28           | 110.33           | 110.33                        | 7.600           | 1.25            | 9.50             | 1944             | 1.71                                 | 361              | 38  | 46  | 3576 |      |
| CB-9.50  | BRB-9.50  | 8    | C-5-D | 3    | 1911 | 1   | 194 4/16       | 137.56         | t      | 14             | 14             | 0.3125         | 7.60           | 9.00           | 7.35           | 35.60           | 6.38           | 21.10           | 4.00  | 3.00 | 13.88           | 1.00           | 5.00           | 6.00            | 6.38              | 6              | 0              | 0.00 | 3.25 | 1.63 | 1.28           | 110.33           | 110.33                        | 7.600           | 1.25            | 9.50             | 1944             | 1.71                                 | 361              | 38  | 46  | 3576 |      |
| CB-11.00 | BRB-11.00 | 8    | C-C-5 | 2    | 1912 | 1   | 188 13/16      | 132.13         | t      | 12             | 12             | 0.2500         | 7.33           | 9.00           | 7.45           | 37.70           | 6.19           | 21.10           | 4.00  | 3.00 | 15.79           | 1.25           | 5.00           | 7.00            | 6.19              | 6              | 0              | 0.00 | 3.25 | 1.63 | 1.28           | 101.04           | 101.04                        | 7.333           | 1.50            | 11.00            | 2382             | 1.81                                 | 418              | 38  | 46  | 2920 |      |
| CB-11.00 | BRB-11.00 | 8    | C-    |      |      |     |                |                |        |                |                |                |                |                |                |                 |                |                 |       |      |                 |                |                |                 |                   |                |                |      |      |      |                |                  |                               |                 |                 |                  |                  |                                      |                  |     |     |      |      |

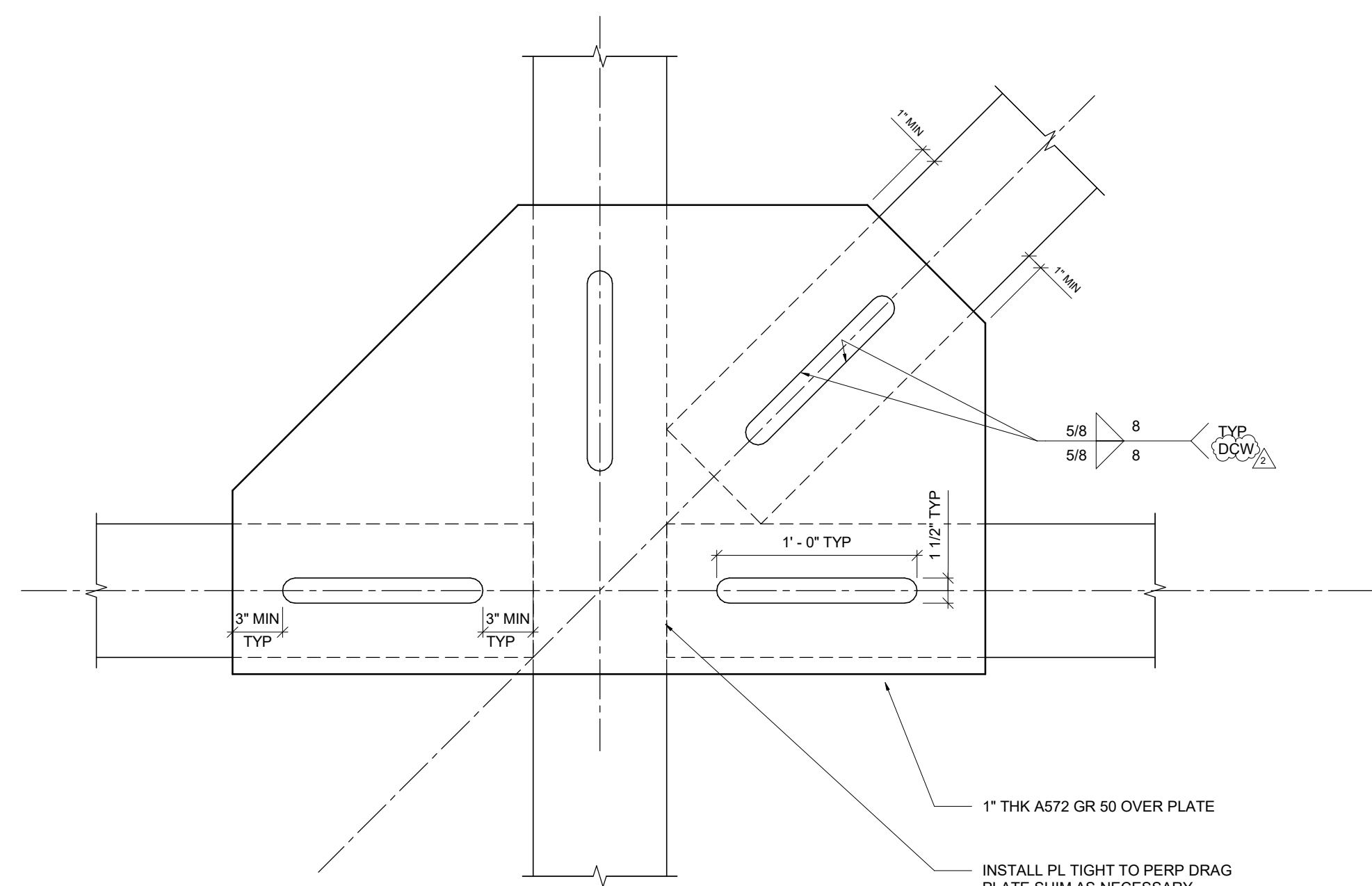
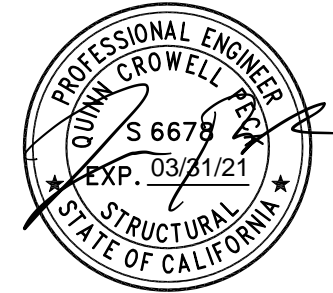


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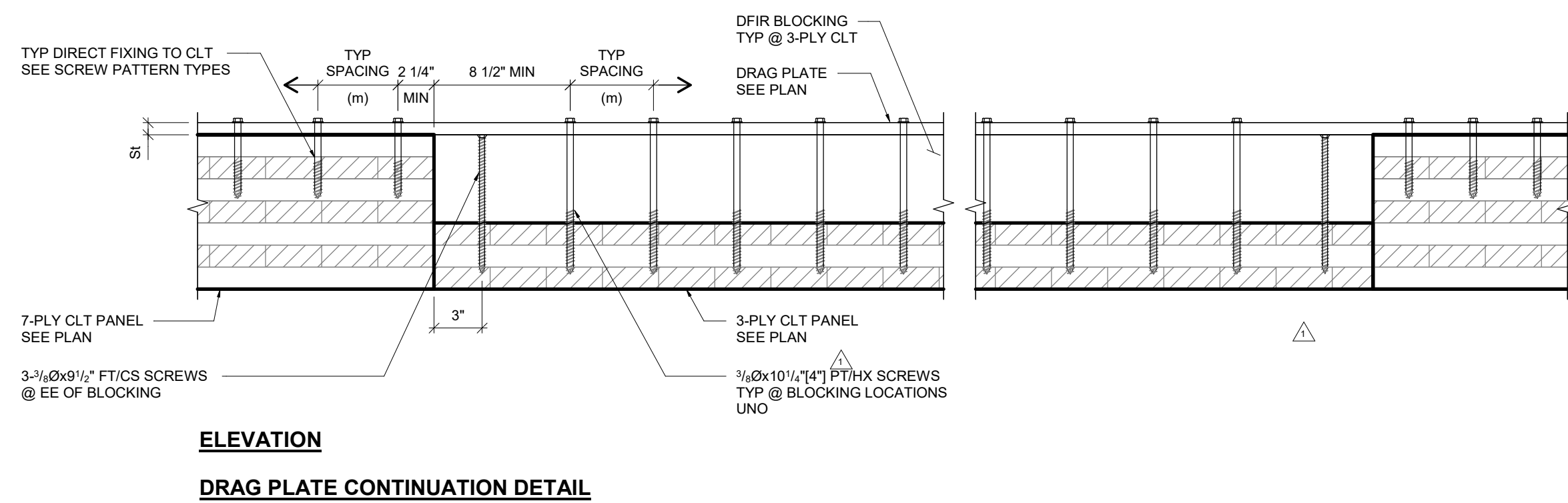




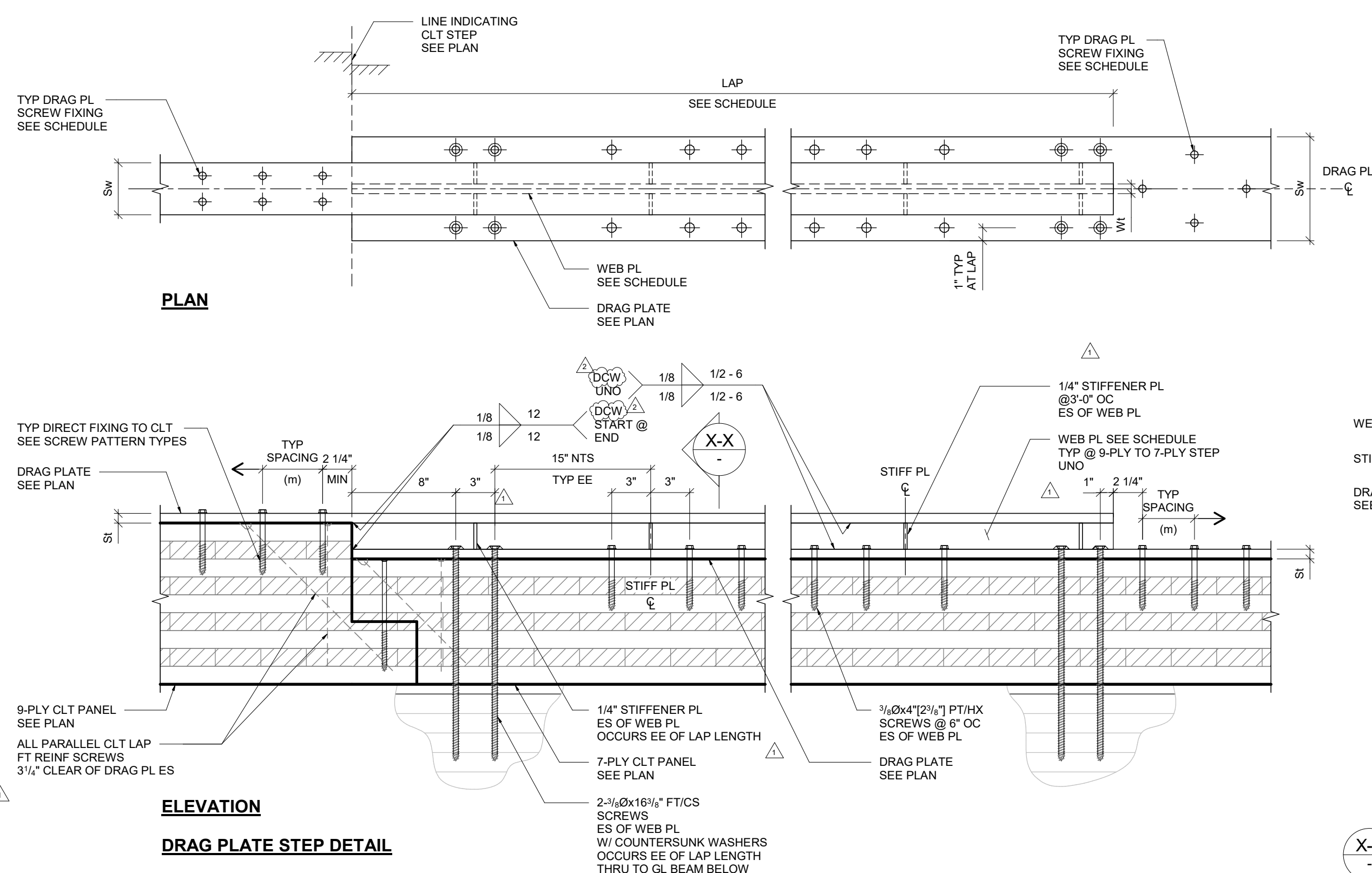




3 DRAG PLATE DIAGONAL CONNECTION  
1'-1 1/2" x 1'-0"



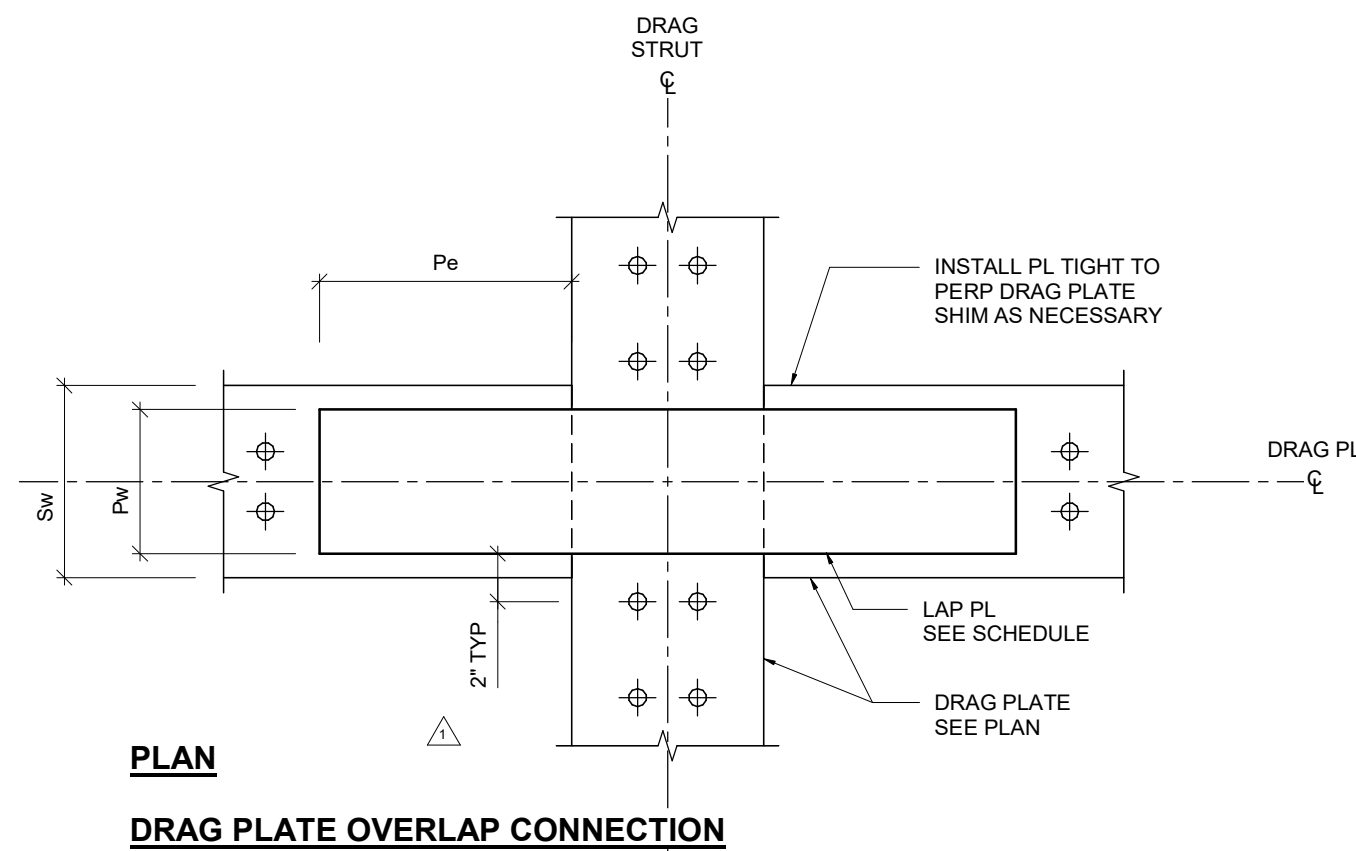
ELEVATION  
DRAG PLATE CONTINUATION DETAIL



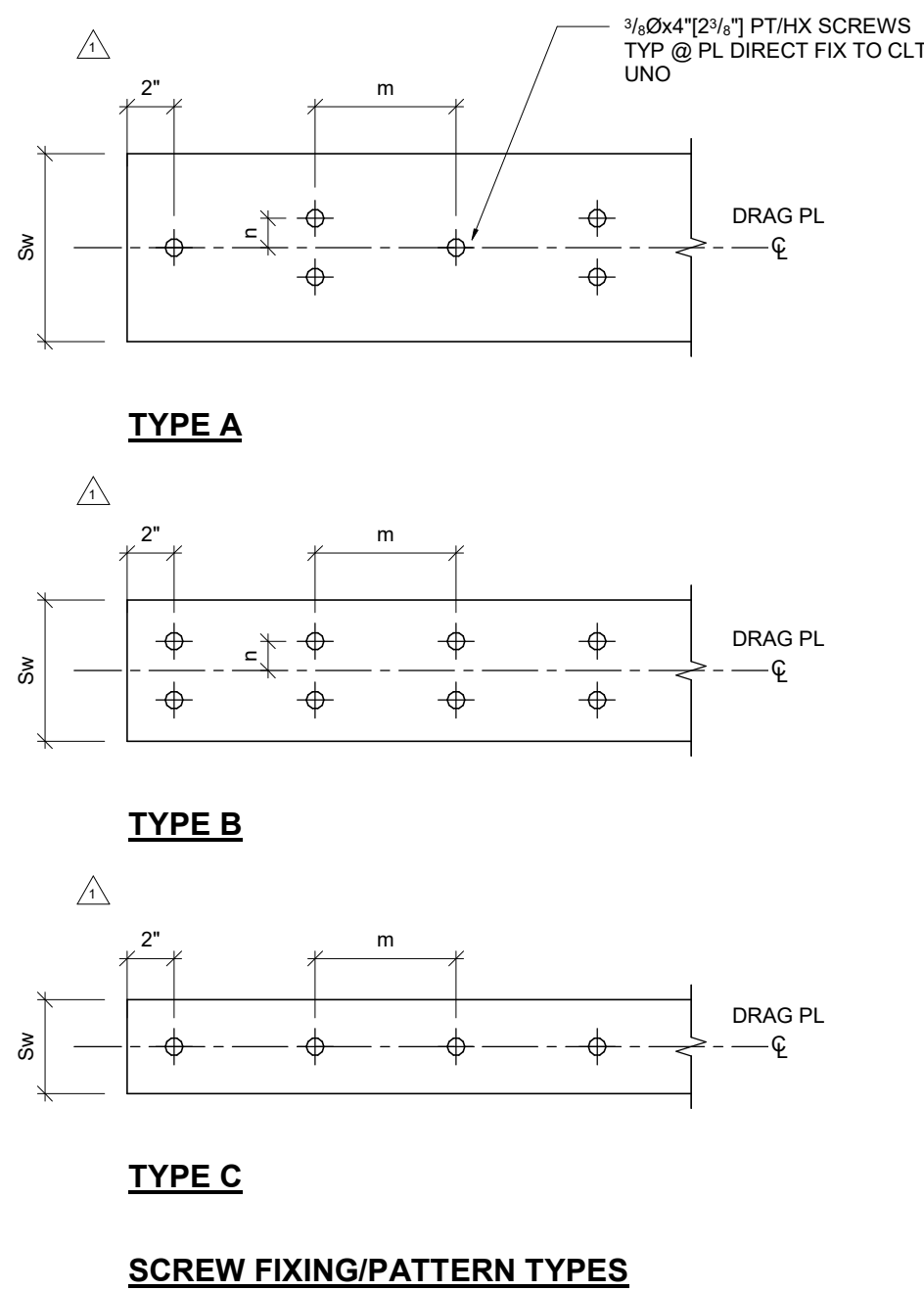
ELEVATION  
DRAG PLATE STEP DETAIL

2 TYP DRAG PLATE DETAILS @ CLT STEPS  
1'-1 1/2" x 1'-0"

| DRAG PLATE SCHEDULE |         |     |               |            |             |     |          |          |              |        |        |
|---------------------|---------|-----|---------------|------------|-------------|-----|----------|----------|--------------|--------|--------|
| TYPE                | DRAG PL |     | DFIR BLOCKING |            | SPLICE CONN |     | STEP LAP |          | CLT FIXING   |        |        |
|                     | St      | Sw  | Bw            | Depth      | Pt          | Lw  | LAP      | Wt       | PATTERN TYPE | m      | n      |
| DP1                 | 1"      | 10" | 14 1/4"       | MATCH STEP | 1 1/4"      | 16" | SEE S550 | SEE S550 | A            | 2 3/4" | 2 5/8" |
| DP2                 | 1"      | 7"  | 14 1/4"       | MATCH STEP | 1 3/8"      | 10" | SEE S520 | SEE S520 | A            | 5"     | 2 5/8" |
| DP3                 | 1"      | 3"  | N/A           | N/A        | 1"          | 4"  | N/A      | N/A      | C            | 12"    | N/A    |
| DP4                 | 1"      | 3"  | N/A           | N/A        | 1"          | 4"  | 153"     | 14"      | B            | 6"     | 3/4"   |



PLAN  
DRAG PLATE OVERLAP CONNECTION

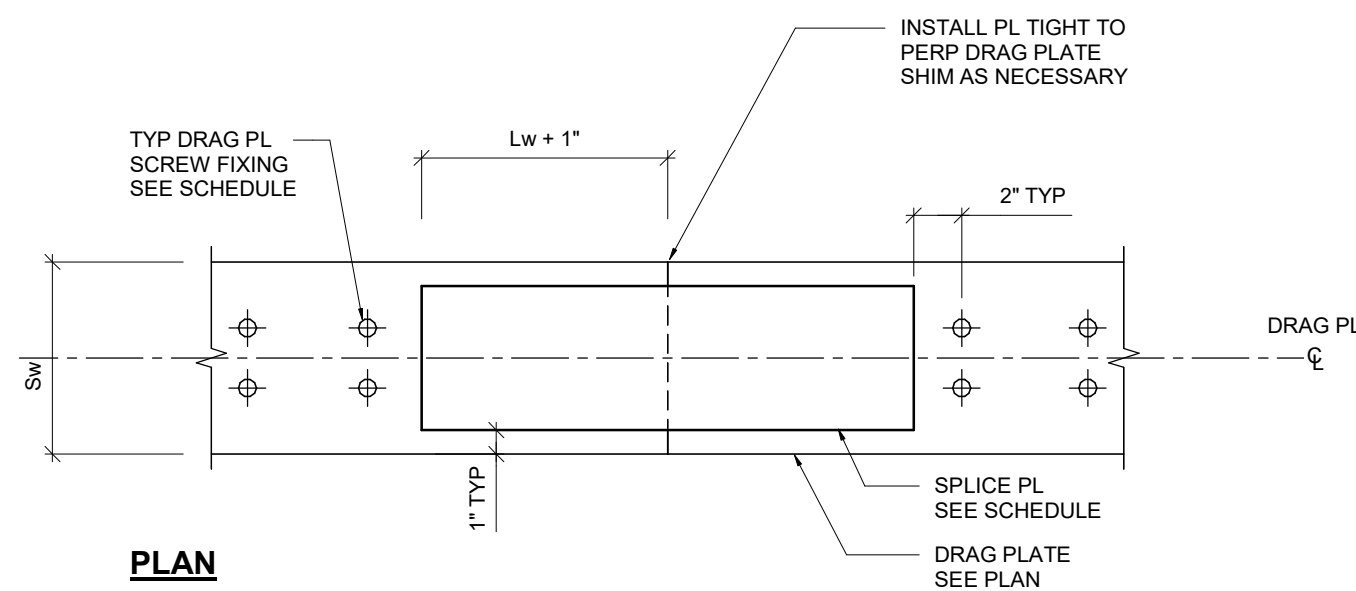


TYPE A

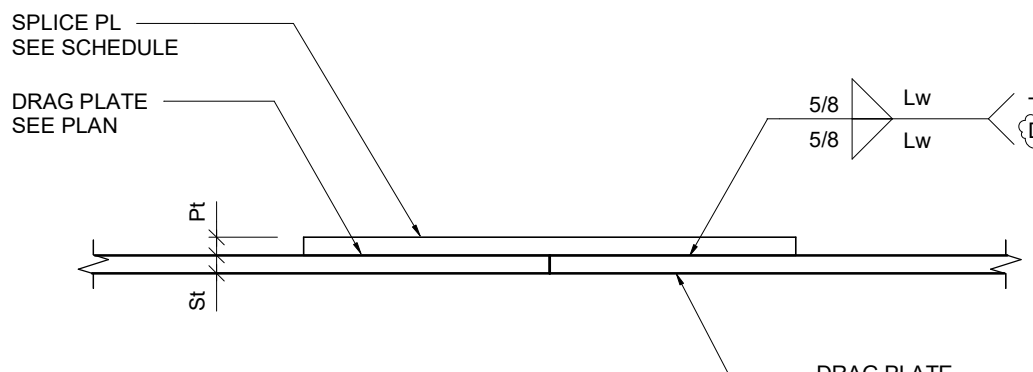
TYPE B

TYPE C

SCREW FIXING/PATTERN TYPES



PLAN



ELEVATION

DRAG PLATE SPLICE CONNECTION

NOTE:  
ALL STEEL TO BE GR 50

1 TYP DRAG PLATE DETAILS  
1'-1 1/2" x 1'-0"

CSG CONSULTANTS, INC.

THESE PLANS AND DETAILS ARE

APPROVED

THE APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.

By: LOK C. PHIROZE W., YVONNE C.

Date: 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

1265 Borregas

GOOGLE LLC  
SUNNYVALE CA

REVISIONS

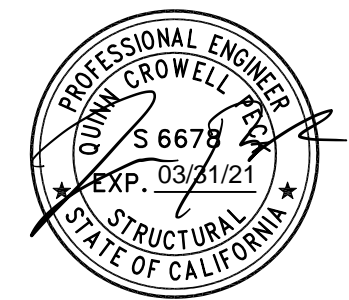
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1 PLAN CHECK RESPONSE 1 09/03/2020  
2 PLAN CHECK RESPONSE 2 08/05/2020

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 16040

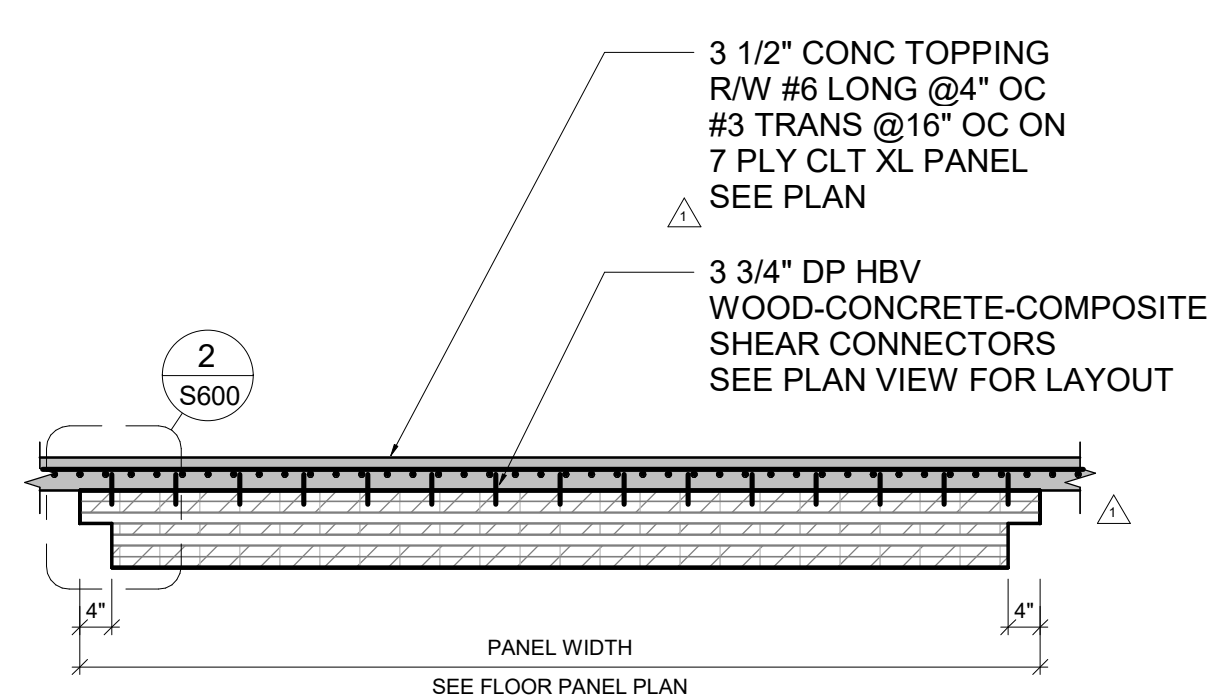
TYPICAL  
DIAPHRAGM  
DETAILS  
S521

PERMIT SET

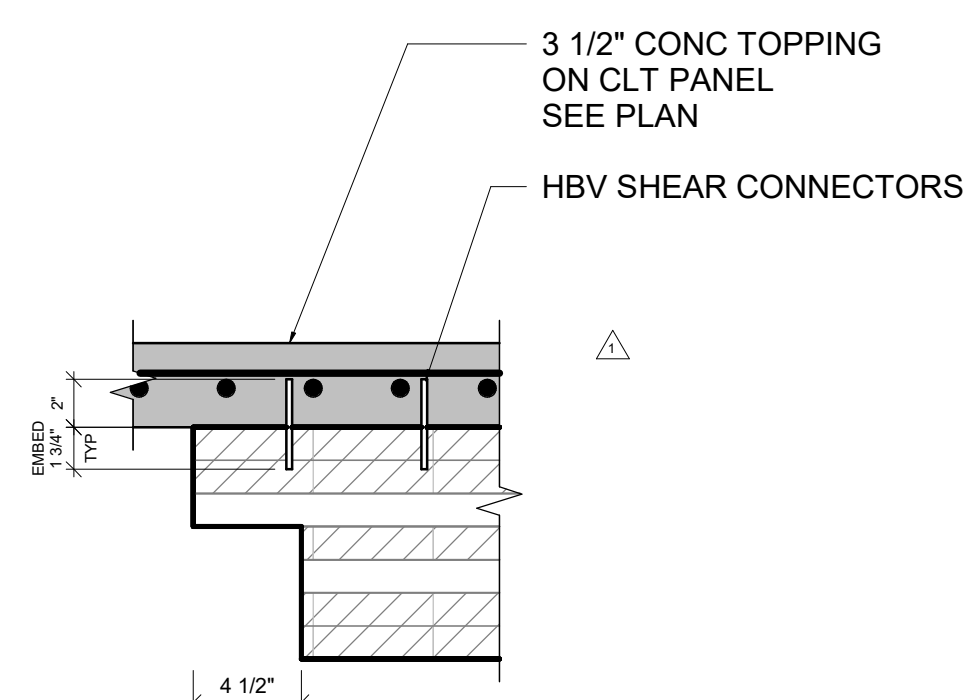




| CLT COMPOSITE PANEL SCHEDULE |        |                       |             |             |             |
|------------------------------|--------|-----------------------|-------------|-------------|-------------|
| MARK                         | LAYERS | LAYER ORIENTATION (°) | SPECIES     | GRADE       | LAYER DEPTH |
| PANEL TYPE 3-G               | 1      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 2      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 3      | 90                    | SPF         | No. 2       | 1 3/8"      |
|                              | 4      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 5      | 90                    | SPF         | No. 2       | 1 3/8"      |
|                              | 6      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 7      | 0                     | D. Fir      | D Fir #2 SE | 1 3/8"      |
|                              | 8      | 0                     | SPF         | No. 2       | 1 3/8"      |
| PANEL TYPE 4-C               | 1      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 2      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 3      | 90                    | SPF         | No. 2       | 1 3/8"      |
|                              | 4      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 5      | 90                    | SPF         | No. 2       | 1 3/8"      |
|                              | 6      | 0                     | SPF         | No. 2       | 1 3/8"      |
|                              | 7      | D. Fir                | D Fir #2 SE | 1 3/8"      |             |
|                              | 8      | 0                     | SPF         | No. 2       | 1 3/8"      |

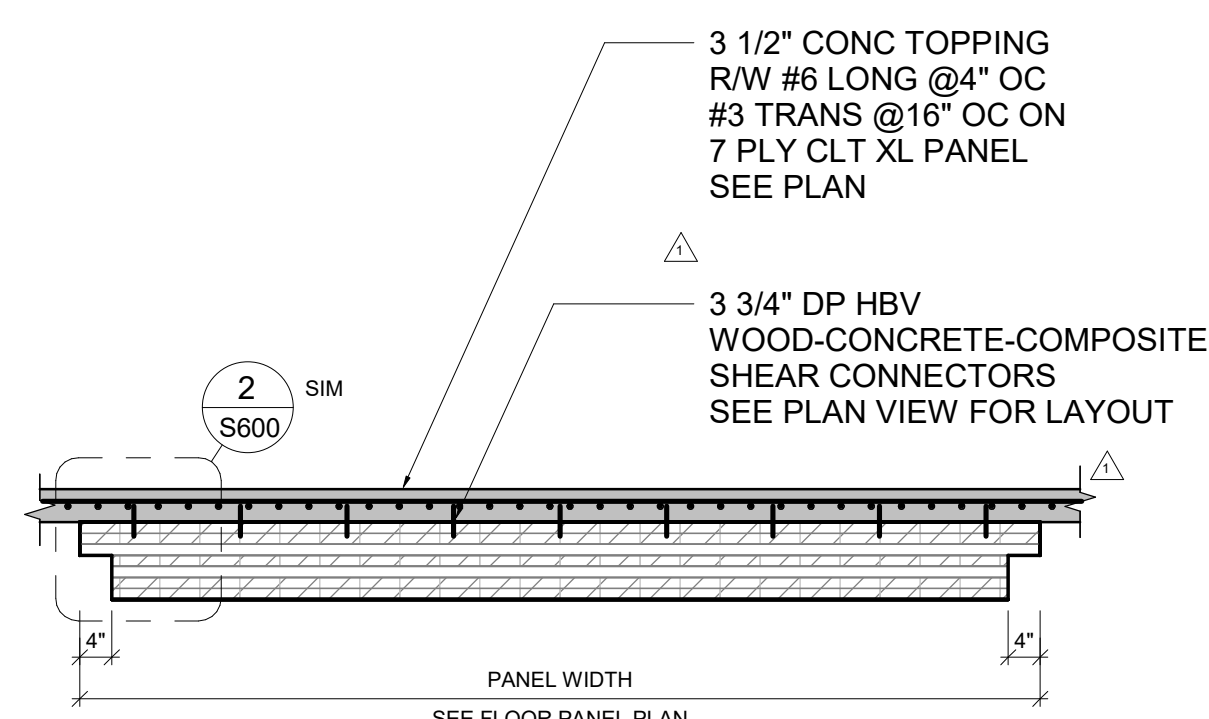


**SECTION**

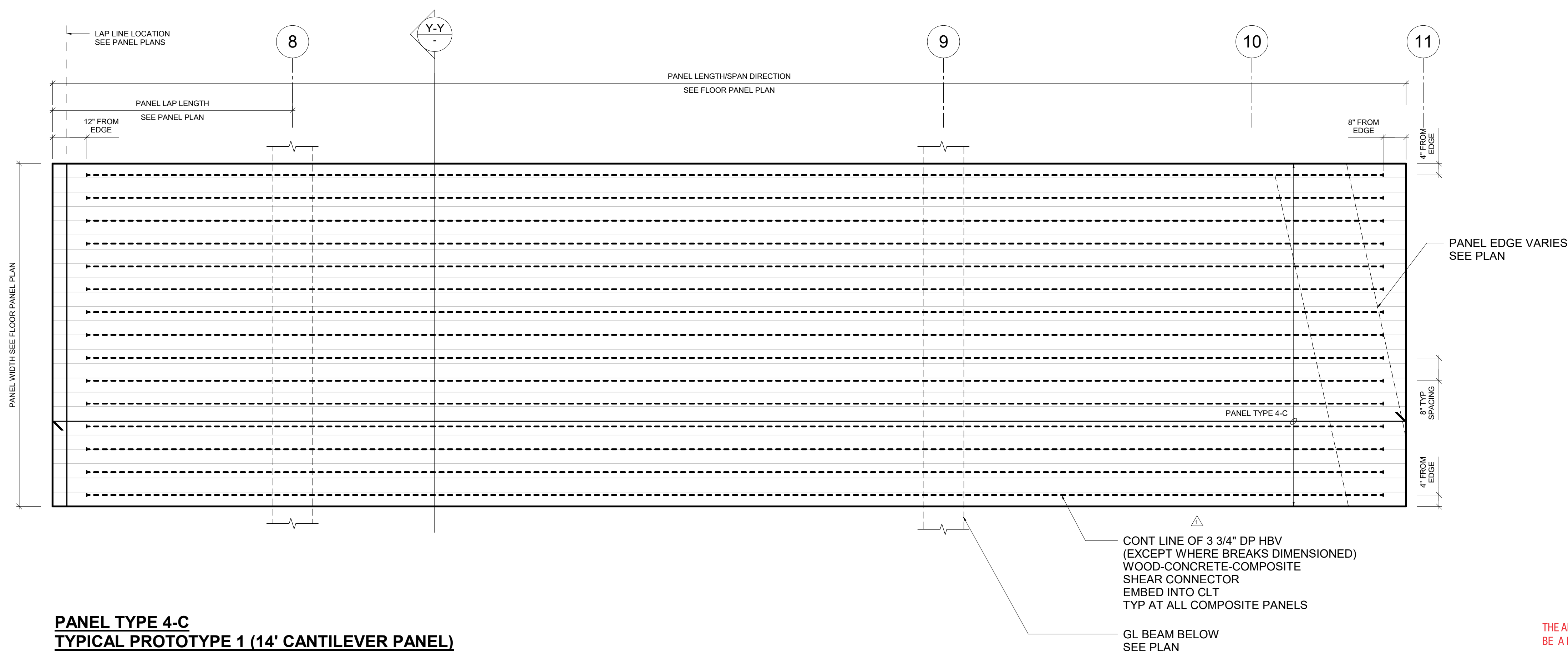


2  
—

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

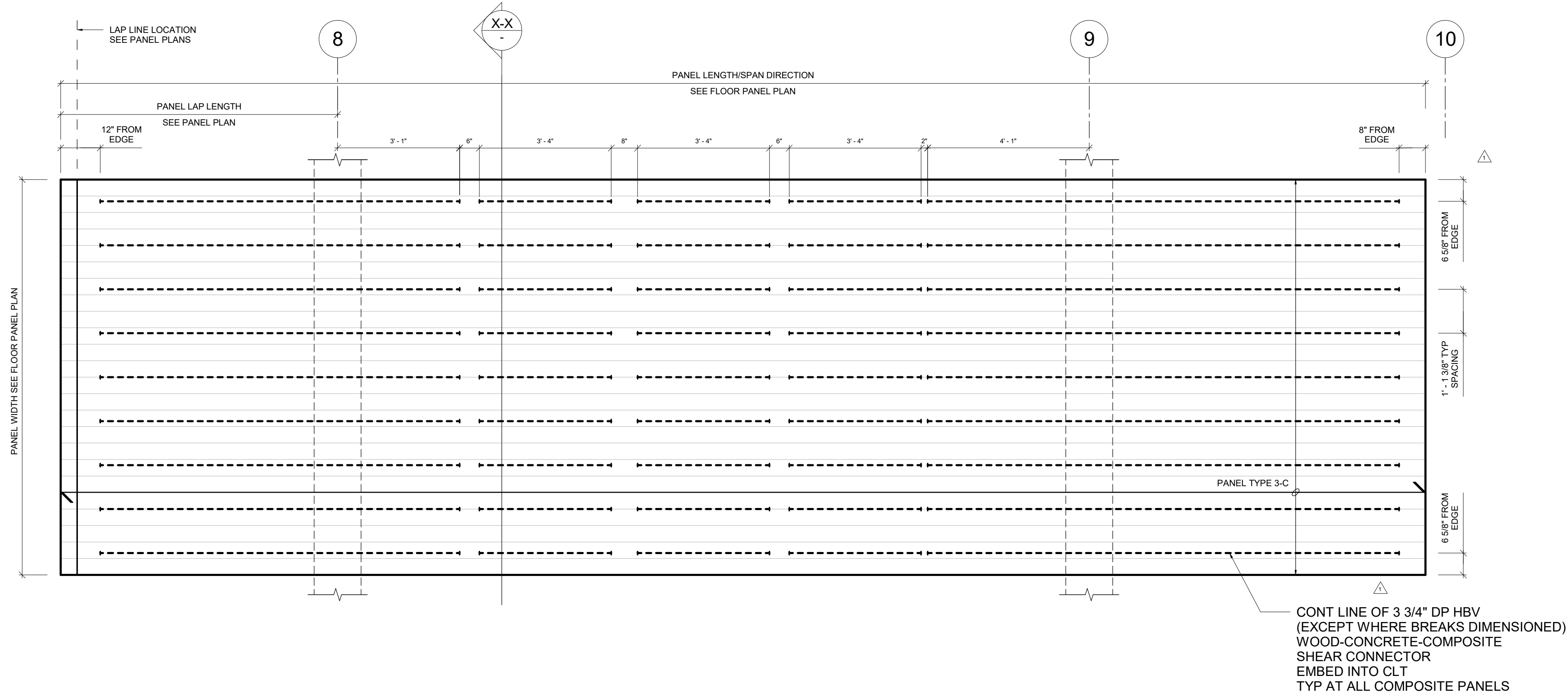


**SECTION**



**PANEL TYPE 4-C**  
**TYPICAL PROTOTYPE 1 (14' CANTILEVER PANEL)**

NTS



**PANEL TYPE 3-C**  
**TYPICAL PROTOTYPE 1 (9' CANTILEVER PANEL)**


NTS

### COMP CLT PANEL COMPOSITIONS

$$1/2^{\circ} = 1'-0''$$

**CSG CONSULTANTS, INC.**  
THESE PLANS AND DETAILS ARE

**APPROVED**

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BE A PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.  
By  LOK C. PHIROZE W.,  
YVONNE C.

Date 7/28/2020

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

**1265 Borregas**  
GOOGLE LLC  
1265 BORREGAS AVE.,  
SUNNYVALE CA

| REVISIONS               |            |
|-------------------------|------------|
| ISSUED FOR PERMIT       | 06/01/2020 |
| 1 PLAN CHECK RESPONSE 1 | 09/03/2020 |

CHECKED BY: SK  
ISSUE DATE: 9 MAR 2020  
PROJECT NO: 18040

## CLT PANEL ASSEMBLY DETAILS

# S600

## PERMIT SET



