GENERAL STRUCTURAL NOTES

1.0 BASIS FOR DESIGN

1.1 RELEVANT BUILDING CODES USED IN DESIGN:

1.1.1 AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05)

1.1.2 AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530.1-05)

1.1.3 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-99)

1.1.4 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES (ASCE 7-02)

1.1.5 CARIBBEAN UNIFIED BUILDING CODE (CUBiC)

1.2 DESIGN LOADS

1.2.1 LIVE LOADS (CONFORMING TO ACI 318-05/LATEST & ASCE 7-02/LATEST)

1.1 APARTMENT: 50 PSF
1.2 STAIRWAYS AND CORRIDORS: 125 PSF
1.3 WASHROOMS : 50 PSF
1.4 BALCONIES/ PORCHES: 50 PSF
1.5 HAND RAIL: 50 PLF

1.2.2 BASIC WIND SPEED:145 MPH; 3s GUST (ASCE 7-02)

1.2.3 EARTHQUAKE: ZONE 2a (CUBiC)

2.0 FOUNDATION

2.1 FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 12,000 PSF (383 kPa)

2.2 ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED NATURAL SOIL OR CONTROLLED COMPACTED FILL, APPROVED BY THE ENGINEER. THE MATERIAL AT FOOTING GRADE SHALL BE INSPECTED BY AN ENGINEER PRIOR TO CONSTRUCTION. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE FOOTINGS/FOUNDATION SHALL BE LOWERED OR FOUNDED ON COMPACTED FILL OR AS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER.

2.3 THE FOOTING ELEVATIONS IF SHOWN ON THE DRAWINGS ARE FOR ESTIMATION PURPOSES ONLY AND DESIGNATE A MINIMUM DEPTH OF FOOTING WHERE A SAFE SOIL BEARING PRESSURE IS EXPECTED. THE UNDERSIDE OF THE FOOTING/BASE SHALL BE LOWERED OR EXTENDED AS REQUIRED TO ACHIEVE THE REQUIRED DESIGN BEARING CAPACITY.

2.4 ANY REQUIRED FILL SHALL BE APPROVED GRANULAR MATERIAL AND SHALL BE PLACED IN LAYERS COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DEFINED BY ASTM D1557 MODIFIED PROCTOR TEST. SHOULD GROUND WATER BE ENCOUNTERED ABOVE THE PROPOSED UNDERSIDE OF FOUNDATIONS, THE NATURAL SOIL SHOULD BE BLINDED WITH CONCRETE TO PREVENT SOFTENING. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DE-WATERING OPERATIONS IN SUCH A MANNER AS NOT TO CAUSE DAMAGE TO THE WORKS OF THE ADJACENT PROPERTIES.

2.5 ALL ORGANIC OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS & REPLACED WITH AN APPROVED CLEAN FILL MATERIAL COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DEFINED BY ASTM D1557. BACKFILL MATERIAL SHOULD BE PLACED IN LAYERS, WHICH, BEFORE COMPACTION, SHALL NOT EXCEED 8" THICK. EACH LAYER SHALL BE SPREAD UNIFORMLY AND EVENLY AND SHALL BE THOROUGHLY MIXED DURING THE SPREAD TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER.

2.6 SEE PLUMBING DRAWINGS FOR UNDER-FLOOR PIPING.

2.7 ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTORS SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOOR IS COMPLETELY IN PLACE AND HAS ATTAINED FULL STRENGTH. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB ABOVE IS IN PLACE. WHERE BACKFILL OCCURS ON BOTH SIDES OF WALL, BACKFILL BOTH SIDES SIMULTANEOUSLY.

3.0 CONCRETE

3.1 ALL REINFORCED CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318, LATEST & ACI 301-99).

3.2 ALL CAST-IN-PLACE CONCRETE (ACI 301-99) SHALL BE NORMAL WEIGHT OF 145 POUND PER CUBIC FOOT USING TYPE-1 PORTLAND CEMENT (CONFORMING TO ASTM C150), FINE AND COARSE AGGREGATES (CONFORMING TO ASTM-33), LARGEST NOMINAL AGGREGATE SIZE SHALL BE 1-1/2" OR GREATER FOR SLAB ON GRADE AND SIZE 3/4" OR GREATER FOR ALL OTHER CONCRETE UNLESS NOTED OTHERWISE.

3.2.1 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS MINIMUM.

3.2.1.1 CLASS I f'c = 4,000 PSI USE FOR ALL STRUCTURAL CONCRETE (EXTERIOR WORK TO BE AIR ENTRAINED)

3.2.1.2 CLASS II f'c = 3,000 PSI SITE CONCRETE INCLUDING CURBING, SIDEWALKS, RAMPS, THRUST BLOCKS, DUCT, BANKS ETC (AIR ENTRAINED)

3.2.1.3 CLASS III f'c = 1,000 PSI LEAN CONCRETE; USE FOR OVER EXCAVATION OF FOOTINGS AND WHERE INDICATED

3.2.1.4 CLASS IV f'c = 4,000 PSI CONCRETE TOPPING IN TANKS.

3.3 SLABS, TOPPINGS, FOOTINGS AND WALLS SHALL NOT HAVE JOINTS IN HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT CENTRE OF SPAN WITH VERTICAL BULKHEADS AND SHEAR KEYS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE ENGINEER.

3.4 ALL EXPOSED EDGES OF CONCRETE WORK SHALL HAVE 1/2" MIN. CHAMFER. USE STANDARD HOOKS ON DOWELS UNLESS OTHERWISE NOTED.

3.5 CONCRETE MIXING, PLACEMENT, CURING AND QUALITY SHALL CONFORM TO THE RECOMMENDATIONS IN ACI 305 R-02, HOT WEATHER CONCRETING.

3.6 TIME BETWEEN CONCRETE BATCHING AND PLACEMENT SHALL BE IN ACCORDANCE TO ASTM C34 AND SHALL BE PLACED WITHIN 1.5 HRS OF BATCHING.

3.7 ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE BY THE USE OF INTERNAL VIBRATORS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET.

3.8 ANY ADMIXTURE TO BE USED IN CONCRETE SHALL BE APPROVED BY THE ENGINEER PRIOR TO USAGE.

3.9 ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCEMENT DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN FORMS.

4.0 REINFORCEMENT

4.1 ALL REINFORCING STEEL BARS SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI, LATEST & CRSI'S MANUAL OF STANDARD PRACTICE.

4.2 ALL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO ASTM A615, LATEST. ALL BARS SHALL BE GRADE 60, EXCEPT FOR VERTICAL REINFORCEMENT IN BLOCK WALLS & STIRRUPS OR TIES MAY BE GRADE 40.

4.3 WELDED WIRE FABRIC SHALL CONFIRM TO THE REQUIREMENTS OF ASTM A185-02 AND SHALL BE LAPPED ONE FULL MESH PLUS 2" MINIMUM AT SIDES AND END SPLICES AND WIRED TOGETHER.

4.4 REINFORCEMENT PROTECTION (CONCRETE COVER)

MINIMUM CONCRETE COVER TO ALL STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

4.4.1 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

4.4.2 CONCRETE POURED AGAINST FORMS; EXPOSED TO EARTH OR WEATHER (INCLUDES SLABS ON GRADES): 2"

4.3 CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
A) STRUCTURAL SLABS, WALLS, JOISTS: 3/4"
B) BEAMS, COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS): 1-1/2"

4.5 NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE ENGINEER. NO TACK WELDING OF REINFORCING BARS IS ALLOWED.

LAP SPLICES WHERE PERMITTED SHALL BE AS FOLLOWS:

Minimum lap for 3/8" Dia. bars	1'-6"
Minimum lap for 1/2" Dia. bars	2'-0"
Minimum lap for 5/8" Dia. bars	2'-6"
Minimum lap for 3/4" Dia. bars	3'-0"
Minimum lap for 1" Dia. bars	4'-0"

4.6 PLACE (2) #5 BAR (1- QTY PER 6" THICK) WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN SLAB OR WALLS. ALSO PROVIDE 1-#5 x 4'-0" DIAGONALLY AT EACH CORNER.

4.7 CONTINUOUS TOP AND BOTTOM BARS IN BEAMS SHALL BE SPLICED AS FOLLOWS:
4.7.1 TOP BARS NEAR/AT MID-SPAN (MIDDLE THIRD) AND HOOKED AT NON-CONTINUOUS EDGE.
4.7.2 BOTTOM BARS SPLICED NEAR/OVER SUPPORTS.
4.7.3 TOP BARS CENTERED OVER SUPPORTS UNLESS OTHERWISE NOTED.

4.8 CONTRACTOR TO PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN IN THE DRAWINGS. ALL REINFORCEMENT TO BE HELD SECURELY IN PROPER POSITION IN ACCORDANCE WITH ACI 318-05. ALL ACCESSORIES TO BE GALVANIZED.

4.9 ALL TIES AND STIRRUPS SHALL BE 135deg. SEISMIC HOOKS IN ACCORDANCE WITH ACI 318-05.

5.0 MASONRY AND PARTITIONS

5.1 ALL MASONRY CONSTRUCTION AND DETAILS SHALL CONFORM TO THE CURRENT PROVISIONS OF THE BUILDING CODE REGULATIONS FOR MASONRY STRUCTURES -ACI 530 (ASCE 5), AND SPECIFICATIONS FOR MASONRY STRUCTURES - ACI 530.1 (ASCE 6).

5.2 ALL REINFORCED CONCRETE BLOCKWORK SHALL BE CONSTRUCTED USING TWO AND THREE CELL MASONRY UNITS ONLY, UNLESS OTHERWISE DETAILED.

5.3 WALLS SHALL BE REINFORCED HORIZONTALLY AT 2' O.C. THE WIRE SHALL CONFORM TO ASTM A82 -01, STANDARD GAGE, GALVANIZED UNLESS SHOWN OTHERWISE.

5.4 EXTERIOR WALL SHALL ALSO BE REINFORCED WITH 2-#5 BARS VERTICALLY AT THE ENDS, CORNERS, EACH SIDE OF DOOR OR WINDOW OPENINGS AND NOT OVER 1-#5 AT 24" O.C TYPICALLY OR PER STRUCTURAL DRAWINGS. REINFORCEMENT SHALL BE FULLY GROUTED IN PLACE. GROUT SHALL DEVELOP 3,000 PSI IN 28 DAYS.

5.5 FILL ALL FOUNDATION BLOCK CELLS WITH CONCRETE OF 3,000 PSI 28 DAY STRENGTH.

5.6 FULL HEIGHT PARITIONS EXTENDED TO BOTTOM OF CONCRETE OR METAL DECK ABOVE.

5.7 PROVIDE DEFLECTION TRACKS AT METAL STUD PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF STRUCTURE.

5.8 ALL PENETRATIONS IN FIRE RATED PARTITIONS TO BE FIRE STOPPED AND SEALED.

5.9 PROVIDE ABUSE RESISTANT 5/8" TYPE "X" GYPSUM WALL BOARD AT ALL LOCATIONS.

5.10 PROVIDE 5/8" MOISTURE RESISTANT GYPSUM WALL BOARD AT TOILET AND BATHROOM LOCATIONS.

5.11 PARTITION TYPES WITH ONE SIDE OF DOUBLE DRY WALL TO BE PLACED SO THAT DOUCLE SIDE IS ON CORRIDOR AND/OR HIGH TRAFFIC SIDE OF WALL.

5.12 ALL PARTITIONS SHALL BE SEALED TO PREVENT PASSAGE OF SMOKE.

5.13 ALL EXPOSED EDGES AND CORNERS PROVIDE BULL NOISE EDGES.

6.0 GENERAL

6.1 CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS, ELEVATIONS AND SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. THE CONSULTANT/ARCHITECT SHALL BE NOTIFIED, IN WRITING, IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS. FIGURED DIMENSIONS ARE TO BE USED ONLY.

6.2 ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT/ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

6.3 STRUCTURAL DRAWINGS SHALL BE COORDINATED AND READ WITH ALL RELEVANT ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS.

6.4 WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK OR OTHERWISE SPECIFIED BY THE ENGINEER.

6.5 NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER "GENERAL NOTES" AND TYPICAL DETAILS.

6.6 ENGINEER'S APPROVAL MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS. ONCE APPROVED, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS OF SAID SUBSTITUTION.

6.7 PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT OR OTHER ITEMS TO BE ATTACHED TO THE STRUCTURE, ENGINEER'S APPROVAL OF CONNECTIONS AND SUPPORTS SHALL BE OBTAINED. UNLESS OTHERWISE SPECIFICALLY DETAILED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, RESPECTIVE SUBCONTRACTOR SHALL FURNISH ALL HANGERS, CONNECTORS, ETC. REQUIRED FOR INSTALLATIONS OF HIS ITEMS.

7.0 GENERAL DEMOLITION

7.1 THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERCATION NOTES TO BE ALL-INCLUSIVE. IT IS CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENT. CONTRACTOR SHALL COORDINATE ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES WITH HVAC, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS AND NOTES. PATCH OR REBUILD ANY AREAS TO REMAIN THAT HAVE BEEN DAMAGED OR DISTURBED BY HVAC, ELECTRICAL, FIRE PROTECTION AND PLUMBING DEMOLITION.

7.2 THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS AND NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY DEVIATION FROM CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITONS OR ITEMS NOT COVERED.

7.3 FOR ALL SURFACES SCHEDULED TO REMAIN, PATCH AND PATCH SURFACES DISTURBED BY DEMOLITION OR REMOVAL OF EQUIPMENT OR UTILITIES. INSTALL PATCHING TO MATCH ADJACENT WORK IN FINISH, STRUCTURAL QUALITIES, COURSING OF MASONRY, AND OTHER CHARACTERISTICS. PATCH SURFACES TO COMPLY WITH FIRE RATINGS, SMOKE-TIGHT RATINGS, ACOUSTICAL CRITERIA AND OTHER PERFORMANCE CRITERIA INDICATED.

7.4 ALL DEMOLITION SHALL BE PERFORMED IN A SAFE AND ACCEPTABLE MANNER TO ALL AUTHORITIES HAVING JURISDICTION AND THE OWNER. A FIRE WATCH SHALL BE PROVIDED IF ANY HAZARDOUS SITUATIONS ARE THOUGHT TO BE POSSIBLE. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION FOR POLLUTION CONTROL. THOROUGHLY CLEAN ADJACENT AREAS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION WORK. BEFORE NEW WORK BEGINS, RETURN ADJACENT AREAS TO CONDITION FOUND PRIOR TO START OF DEMOLITION WORK.

7.5 PROVIDE TEMPORARY PARTITIONS/DUST PROTECTION (RATED AND/OR NON-RATED) AS REQUIRED REVIEW LOCATIONS OF TEMPORARY PARTITIONS/DUST PROTECTION WITH OWNER AND ARCHITECT PRIOR TO WORK.

7.6 PRIOR TO ANY DEMOLITION, THE CONTRACTOR SHAL COORDINATE BRACING AND MAINTAIN THE STRUCTURAL INTEGRITY OF THE REMAINING ELEMENTS OF THE BUILDING AND ITS SYSTEMS AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ADJACENT STRUCTURES DURING DEMOLITION AND NEW CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING, SCAFFOLDING, ETC., WHICH IS NECESSARY TO PREVENT COLLAPSE, SUBSIDENCE, DEFLECTION OR ANY OTHER TYPE OF DAMAGE.

7.7 CONTRACTOR SHALL REVIEW ALL ITEMS TO BE DEMOLISHED WITH OWNER TO IDENTIFY ANY ITEMS TO BE SALVAGED PRIOR TO START OF DEMOLITION.

GENERAL NOTES

1) Do not scale drawings.
2) All dimensions to be checked on site.
3) This drawing is to be read in conjunction with all other structural and mechanical services drawings.
4) All final dimensions and elevations are to be verified on architectural drawings.

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CIVIL & STRUCTURAL ENGINEERS
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EMAIL:GLEANENG @ SPICEISLE.COM

PROJECT:

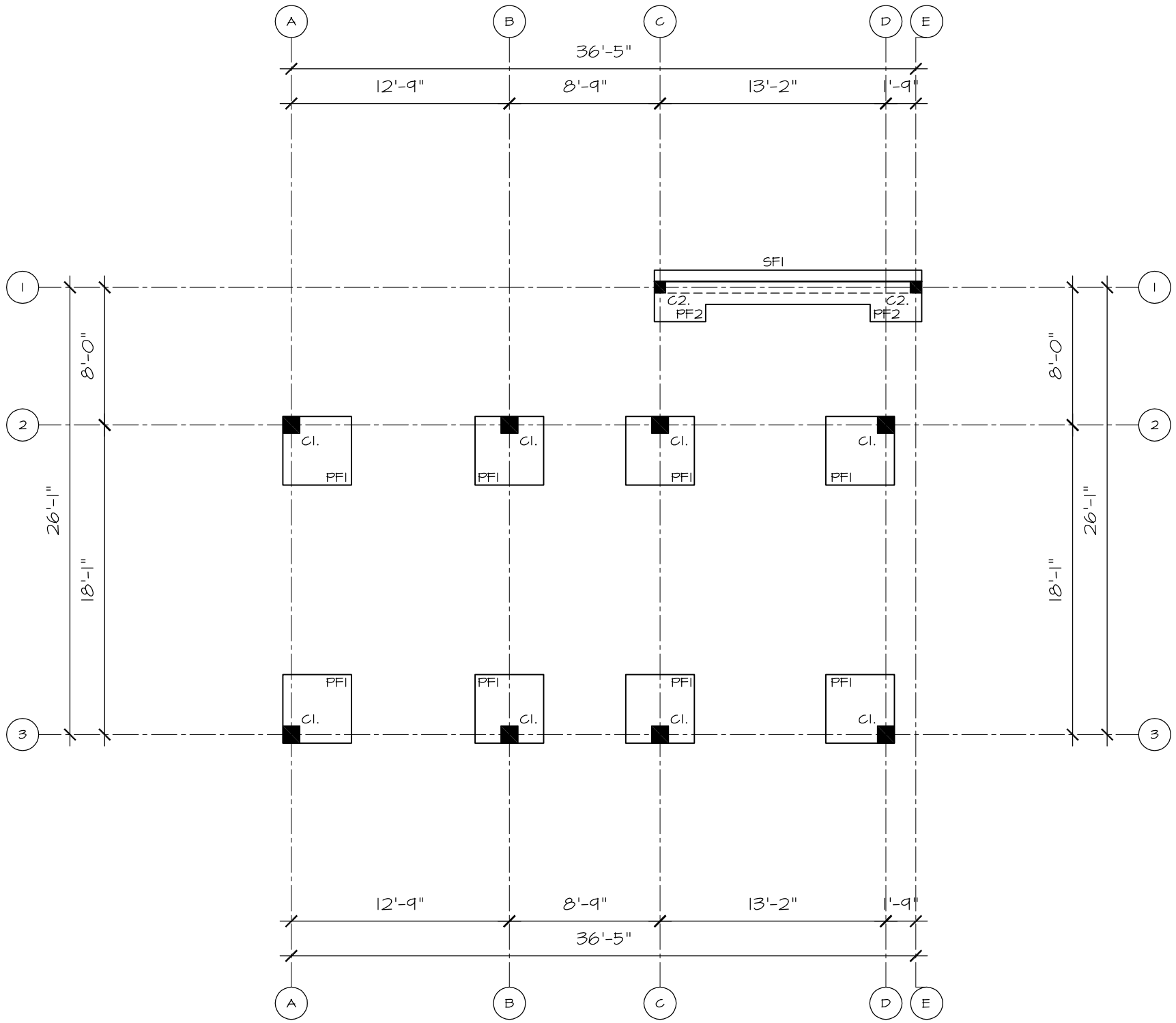
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

STRUCTURAL NOTES

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	**S-00**
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



LEGEND:

COLUMN:

C1 - 12" X 12" REINFORCED CONCRETE COLUMN
(SEE DETAILS ON S-08)

C2 - 8" X 8" REINFORCED CONCRETE COLUMN
(SEE DETAILS ON S-08)

PAD FOOTING:

PF1 - 4'-0" X 4'-0" X 18" DEEP REINFORCED CONCRETE PAD FOOTING
(SEE DETAILS ON S-08)

PF2 - 3'-0" X 3'-0" X 18" DEEP REINFORCED CONCRETE PAD FOOTING
(SEE DETAILS ON S-08)

STRIP FOOTING:

SF1 - 2'-0" X 18" DEEP REINFORCED CONCRETE PAD FOOTING
(SEE DETAILS ON S-09)

WALLS:

W1 - 8" THK H.C.B BASE WALL
(SEE DETAILS ON S-09)

GENERAL NOTES

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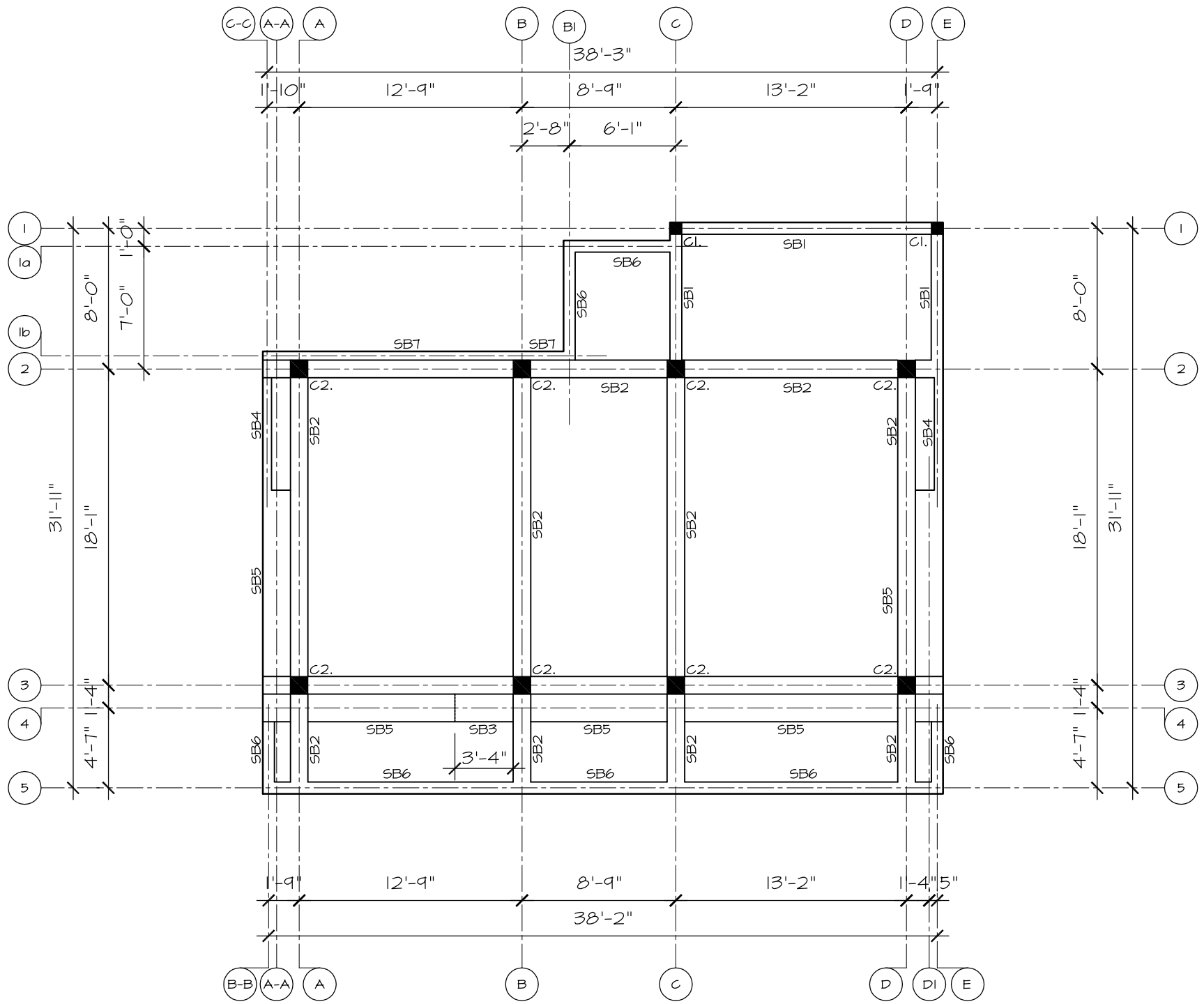
SHEET TITLE:

FOUNDATION PLAN

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	S-01
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	

01 / S-01 **FOUNDATION PLAN**
SCALE: 1/8" = 1'-0"



01
S-02 **FIRST FLOOR BEAM FRAMING PLAN**

SCALE: 1/8" = 1'-0"

LEGEND:

COLUMN:

C1 - 8" X 8" REINFORCED CONCRETE COLUMN

C2 - 12" X 12" REINFORCED CONCRETE COLUMN

SUSPENDED BEAM:

SB1 - 8" X 16" REINFORCED CONCRETE SUSPENDED BEAM

SB2 - 12" X 22" REINFORCED CONCRETE SUSPENDED BEAM

SB3 - 31" X 39" REINFORCED CONCRETE SUSPENDED BEAM

SB4 - 6" X 22" REINFORCED CONCRETE SUSPENDED BEAM

SB5 - 31" X 22" REINFORCED CONCRETE SUSPENDED BEAM

SB6 - 8" X 12" REINFORCED CONCRETE SUSPENDED BEAM

SB7 - 18" X 22" REINFORCED CONCRETE SUSPENDED BEAM

GENERAL NOTES

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PROJECT:

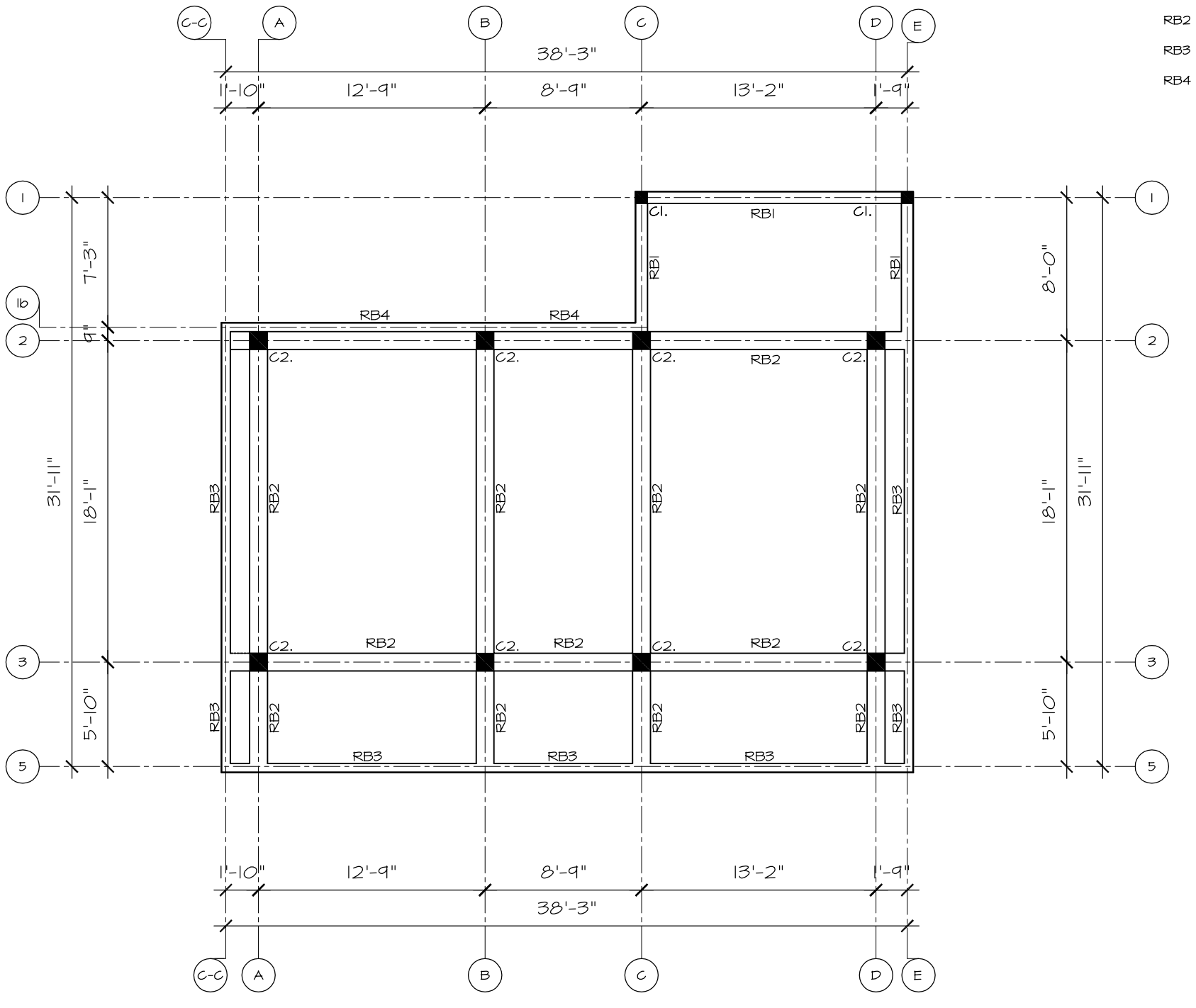
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

FIRST FLOOR BEAM FRAMING PLAN

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	**S-02**
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



01 S-03 **ROOF BEAM FRAMING PLAN**

SCALE: 1/8" = 1'-0"

LEGEND:

COLUMN:

C1 - 8" X 8" REINFORCED CONCRETE COLUMN

C2 - 12" X 12" REINFORCED CONCRETE COLUMN

RING BEAM:

RB1 - 8" X 16" REINFORCED CONCRETE RING BEAM

RB2 - 12" X 18" REINFORCED CONCRETE RING BEAM

RB3 - 6" X 12" REINFORCED CONCRETE RING BEAM

RB4 - 18" X 18" REINFORCED CONCRETE RING BEAM

GENERAL NOTES

GLEANS CONSTRUCTION & ENGINEERING CO .

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PROJECT:

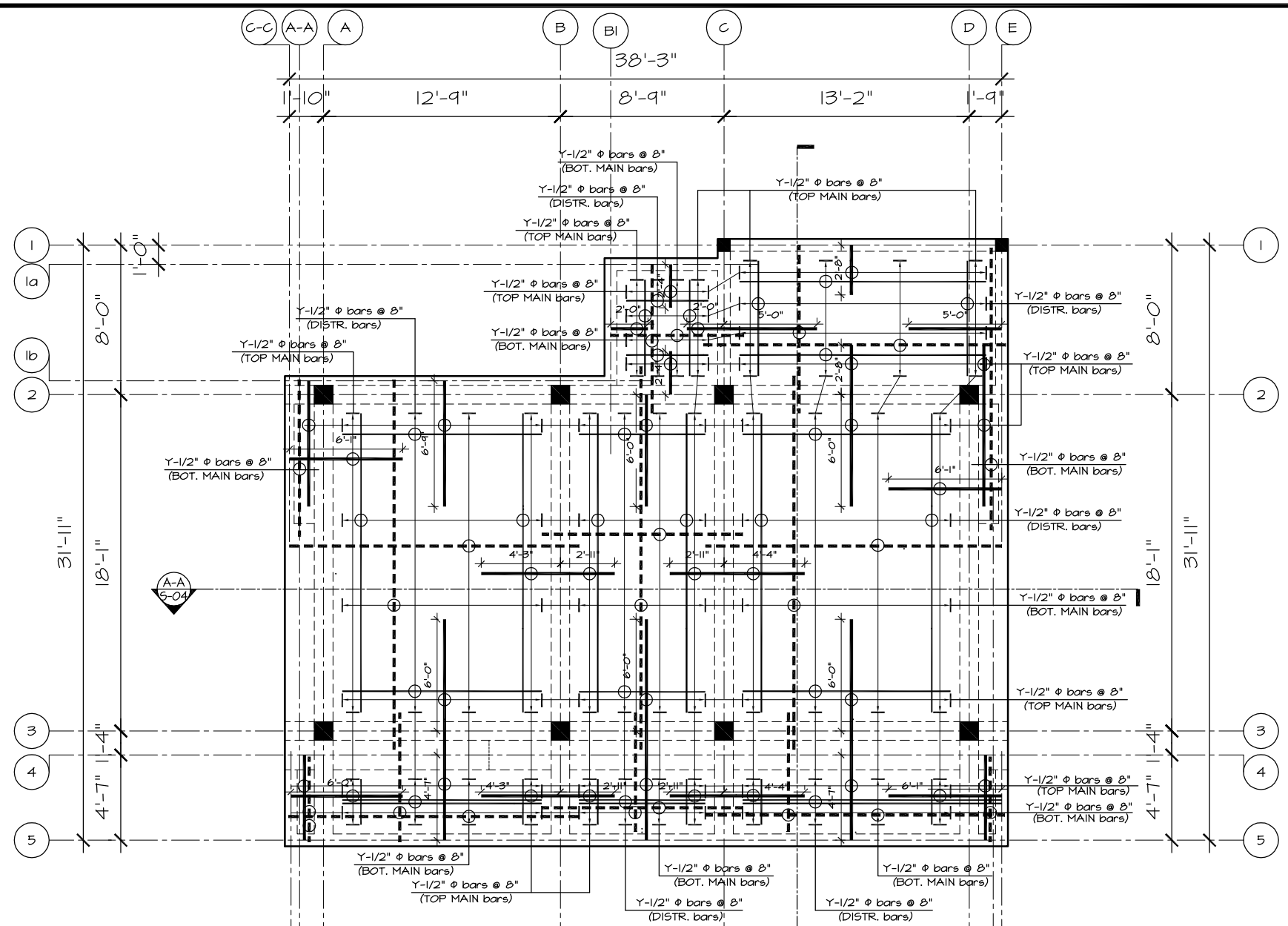
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

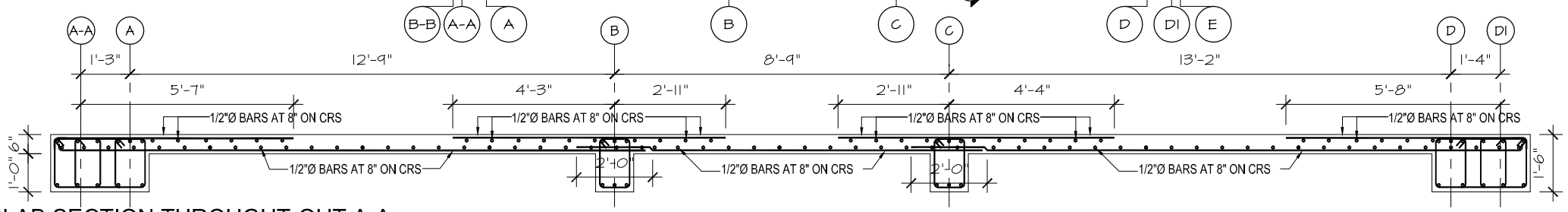
ROOF BEAM FRAMING PLAN

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	**S-03**
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



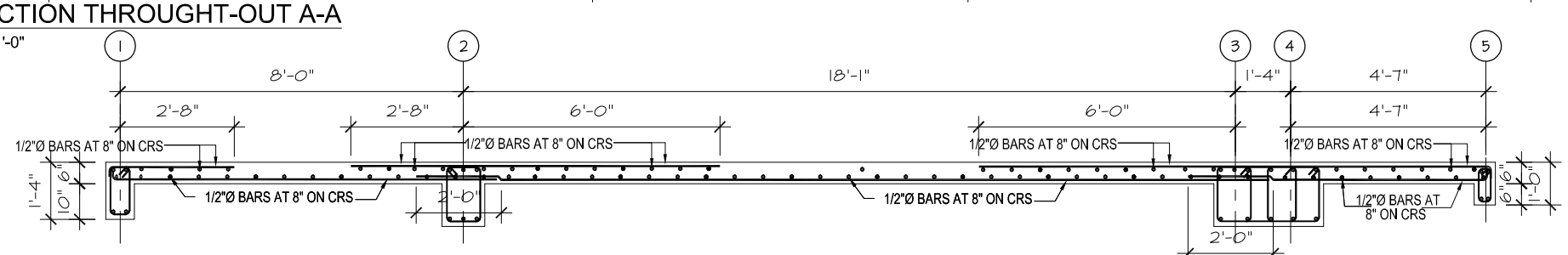
01 S-07 FIRST FLOOR SLAB R.C PLAN

SCALE: 1/8" = 1'-0"



SLAB SECTION THROUGHT-OUT A-A

SCALE 1/4" = 1'-0"



SLAB SECTION THROUGHT-OUT B-B

SCALE 1/4" = 1'-0"

GENERAL NOTES

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PROJECT:

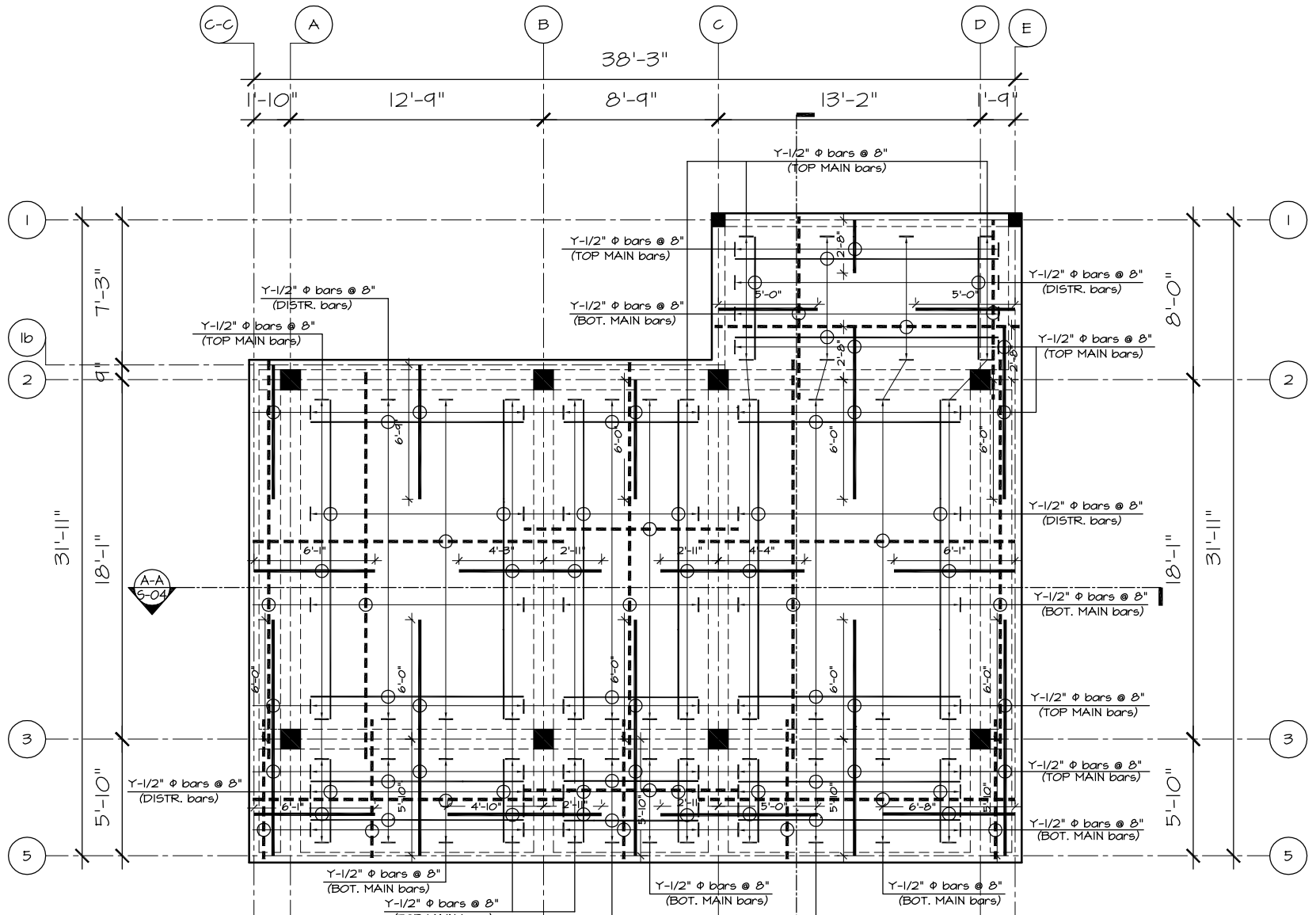
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

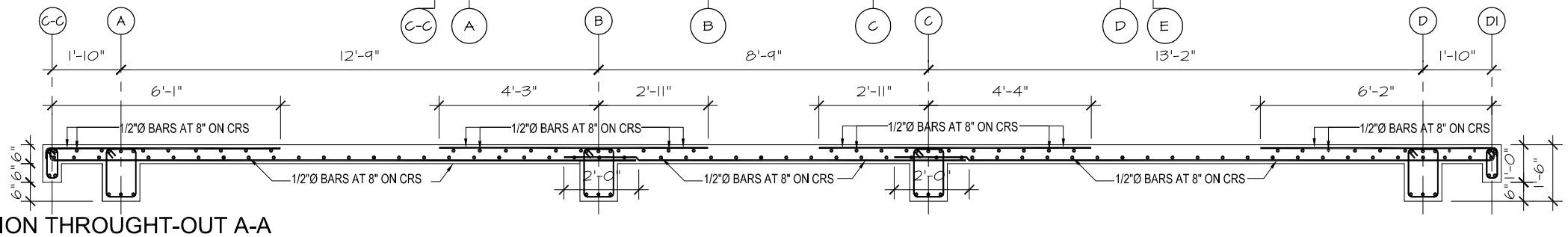
FIRST FLOOR SLAB R.C PLAN & SECTIONS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	**S-04**
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



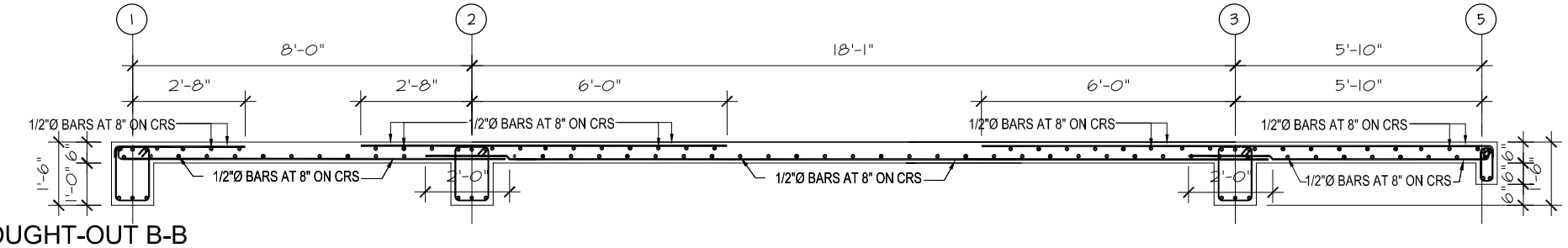
01 S-07a ROOF SLAB R.C PLAN

SCALE: 1/8" = 1'-0"



SLAB SECTION THROUGHT-OUT A-A

SCALE 1/4" = 1'-0"



SLAB SECTION THROUGHT-OUT B-B

SCALE 1/4" = 1'-0"

GENERAL NOTES

GLEANS CONSTRUCTION & ENGINEERING CO .

CIVIL & STRUCTURAL ENGINEERS
CONSTRUCTION / VALUATION

P.O BOX 762 ST. GEORGE'S GRENADA W.I.
PHONE:(473) 440-8686/FAX 440-7641
EMAIL:GLEANENG @ SPICEISLE.COM

PROJECT:

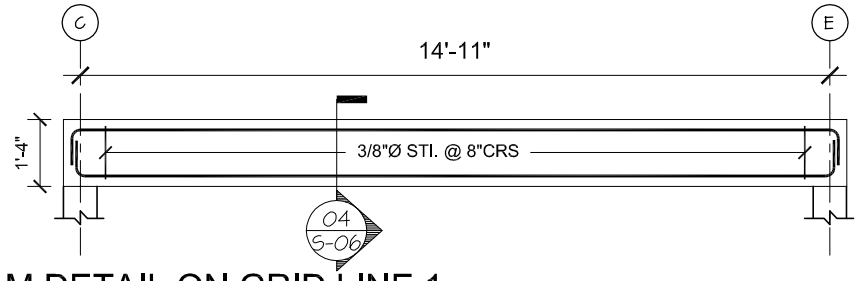
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

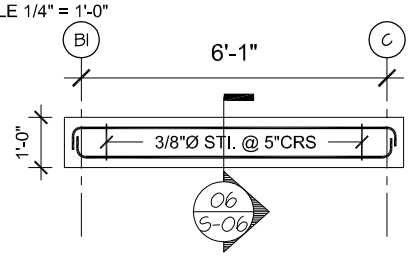
ROOF SLAB R.C PLAN & SECTIONS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	**S-05**
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



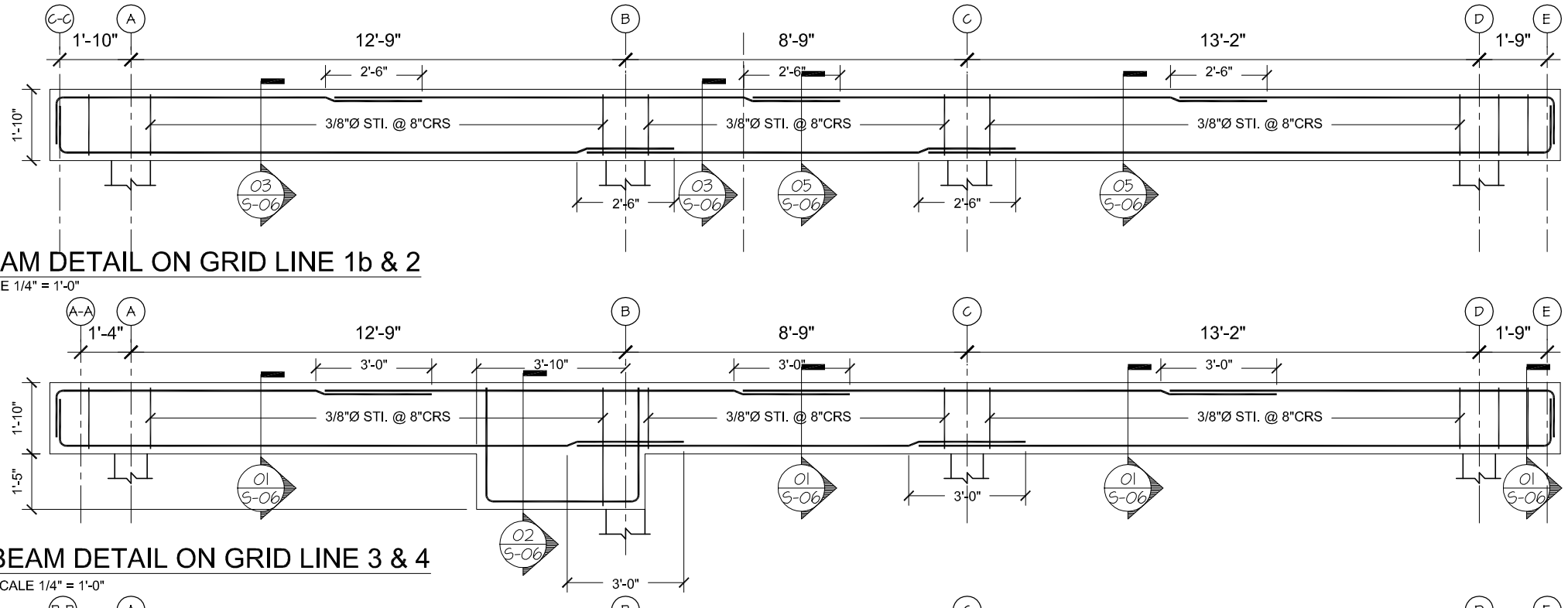
BEAM DETAIL ON GRID LINE 1

SCALE 1/4" = 1'-0"



BEAM DETAIL ON GRID LINE 1a

SCALE 1/4" = 1'-0"

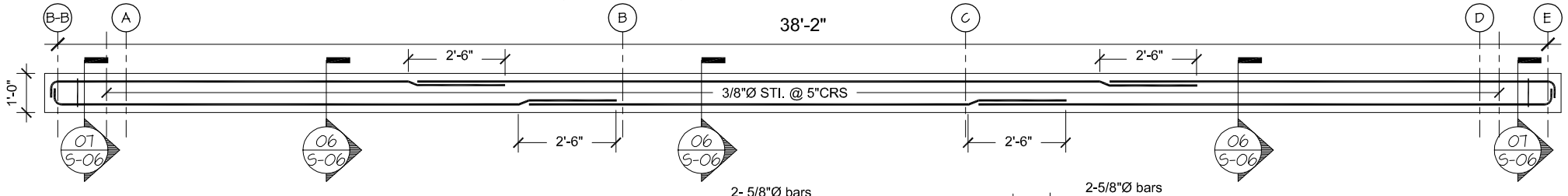


BEAM DETAIL ON GRID LINE 1b & 2

SCALE 1/4" = 1'-0"

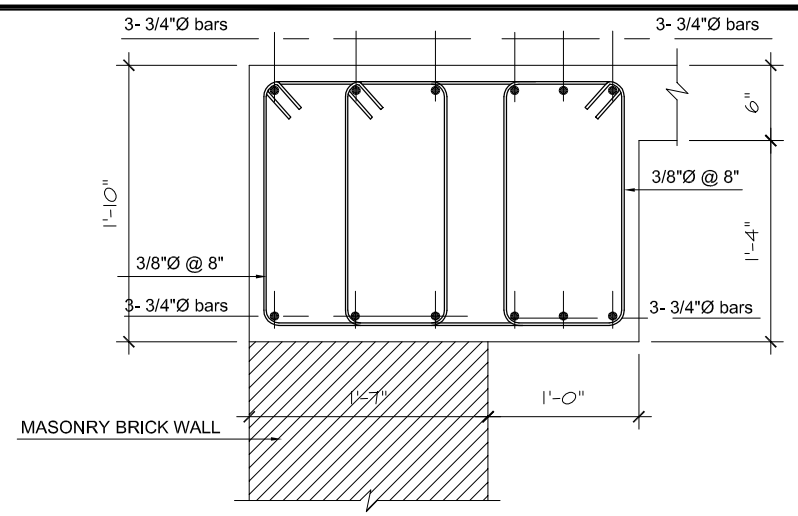
BEAM DETAIL ON GRID LINE 3 & 4

SCALE 1/4" = 1'-0"



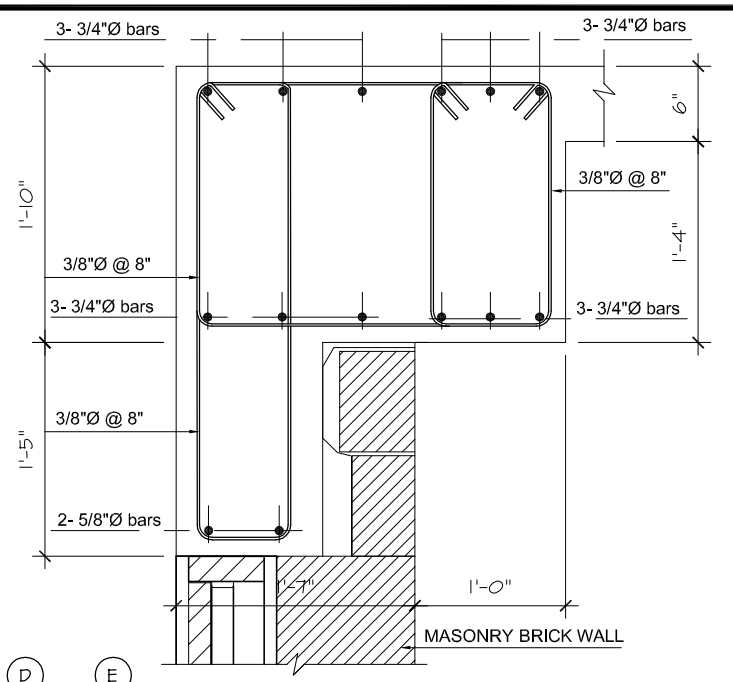
BEAM DETAIL ON GRID LINE 5

SCALE 1/4" = 1'-0"



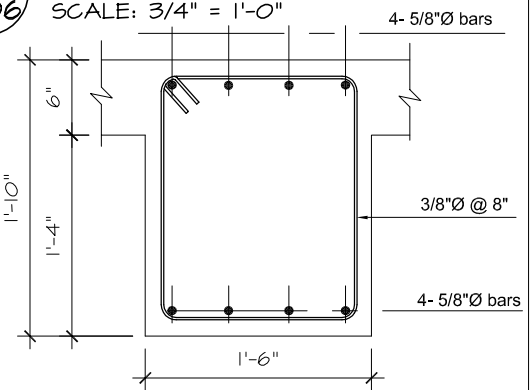
01 S-06 SECTION

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



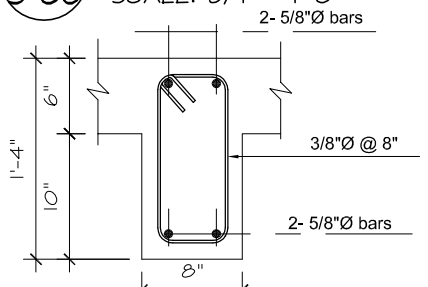
02 S-06 SECTION

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



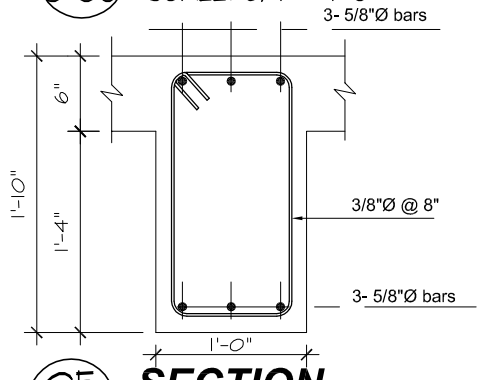
03 S-06 SECTION

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



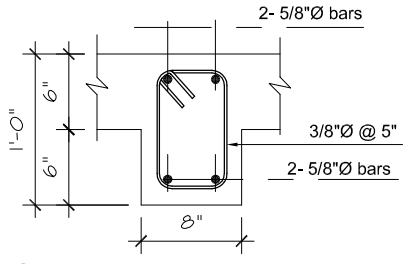
04 S-06 SECTION

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



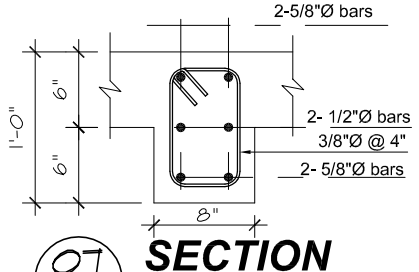
05 S-06 SECTION

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



06 S-06 SECTION

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



07 S-06 SECTION

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

GENERAL NOTES

GLEANS CONSTRUCTION & ENGINEERING CO .

CIVIL & STRUCTURAL ENGINEERS
CONSTRUCTION / VALUATION

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EMAIL:GLEANENG @ SPICEISLE.COM

PROJECT:

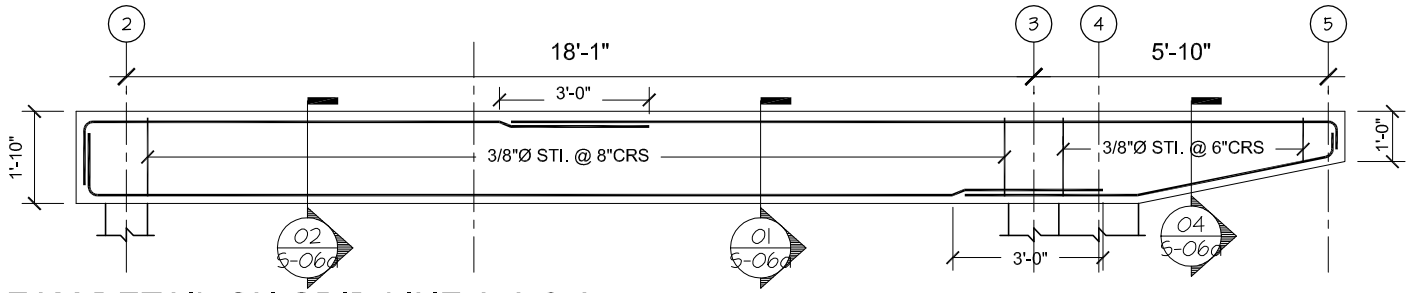
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

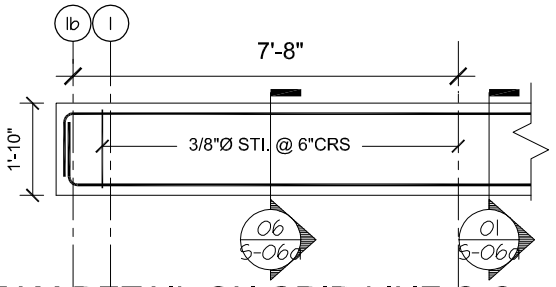
FIRST FLOOR BEAM DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	S-06
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



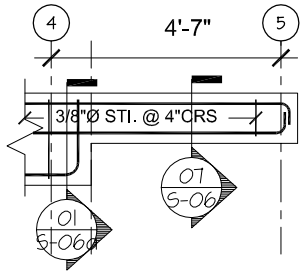
BEAM DETAIL ON GRID LINE A-A & A

SCALE 1/4" = 1'-0"



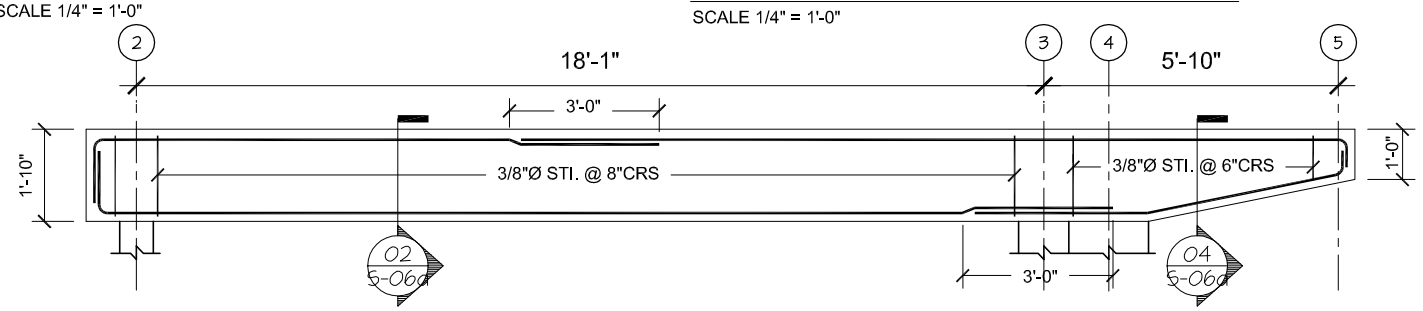
BEAM DETAIL ON GRID LINE C-C

SCALE 1/4" = 1'-0"



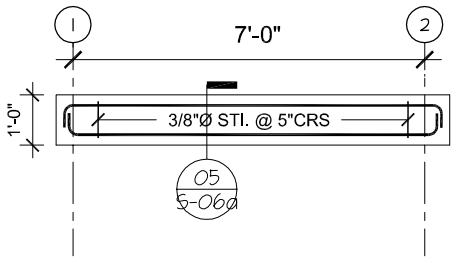
BEAM DETAIL ON GRID LINE B-B

SCALE 1/4" = 1'-0"



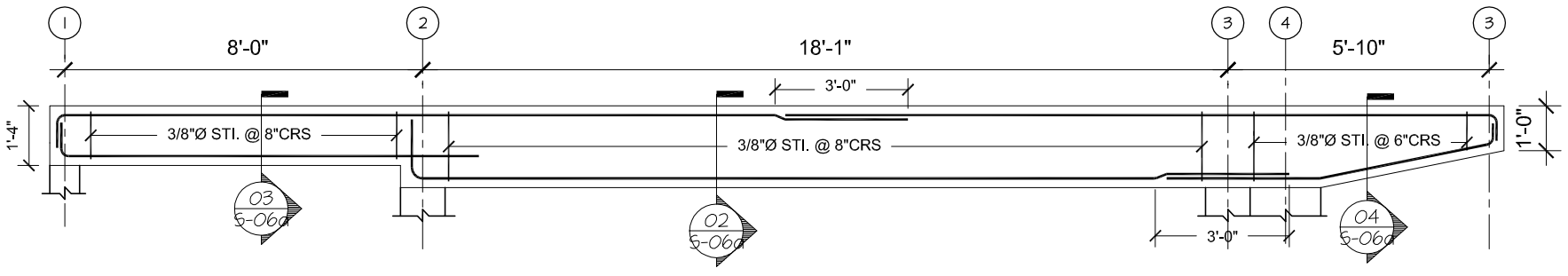
BEAM DETAIL ON GRID LINE B

SCALE 1/4" = 1'-0"



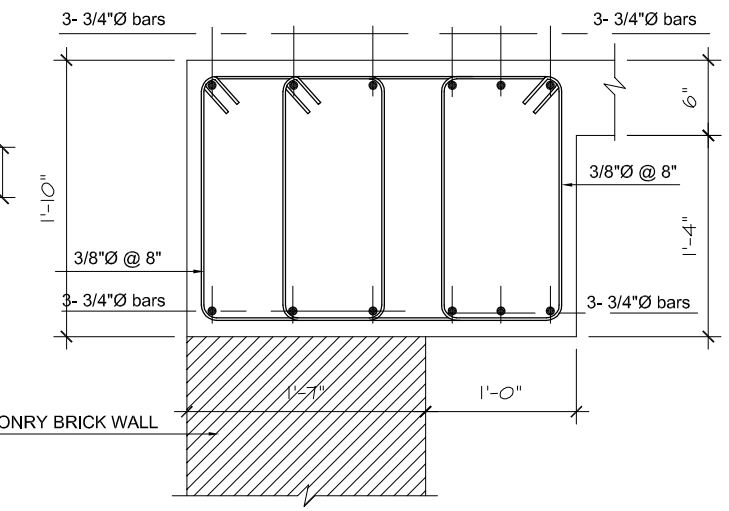
BEAM DETAIL ON GRID LINE B1

SCALE 1/4" = 1'-0"



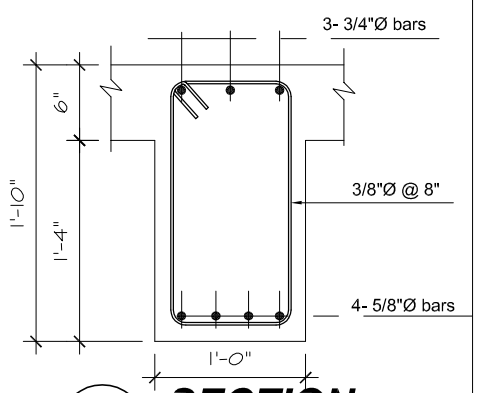
BEAM DETAIL ON GRID LINE C

SCALE 1/4" = 1'-0"



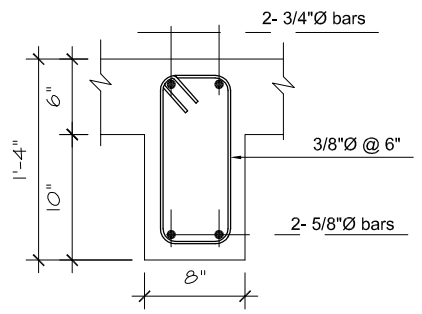
01 S-06a SECTION

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



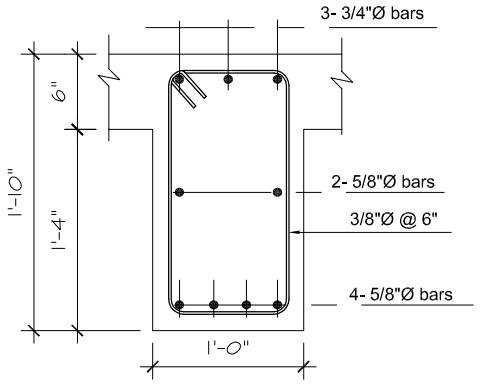
02 S-06a SECTION

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



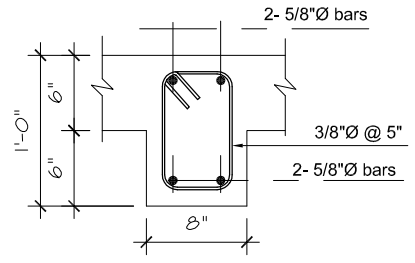
03 S-06a SECTION

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



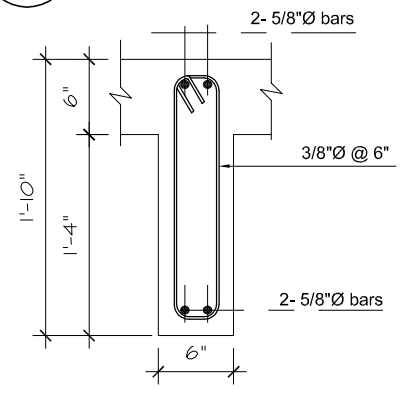
04 S-06a SECTION

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



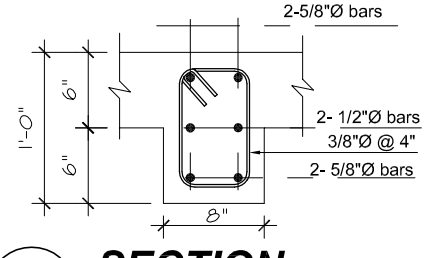
05 S-06a SECTION

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



06 S-06a SECTION

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



07 S-06a SECTION

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

GENERAL NOTES

GLEANS CONSTRUCTION & ENGINEERING CO .

CIVIL & STRUCTURAL ENGINEERS
CONSTRUCTION / VALUATION

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PROJECT:

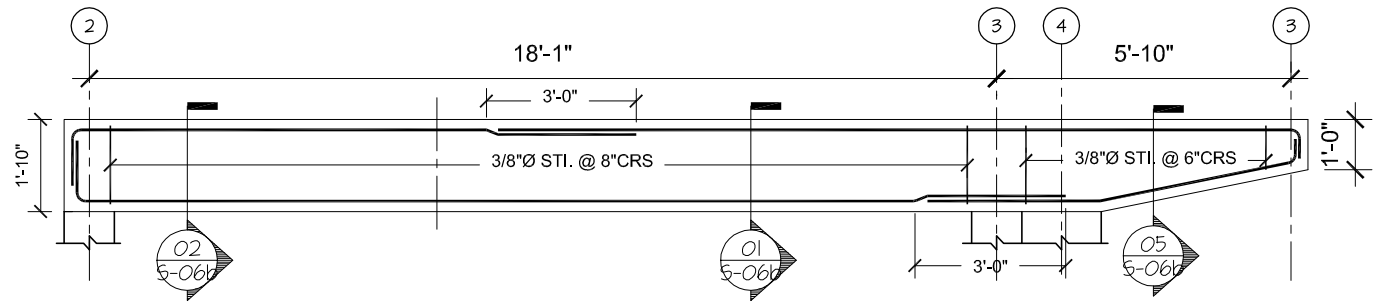
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

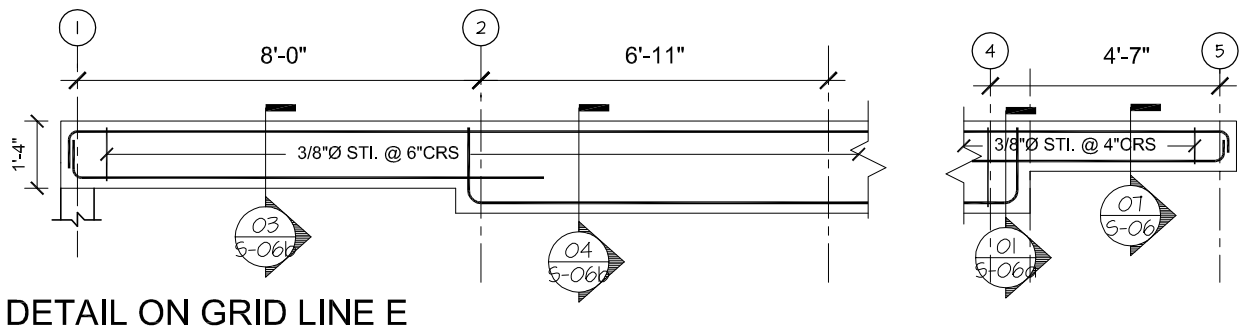
FIRST FLOOR BEAM DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	S-06a
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



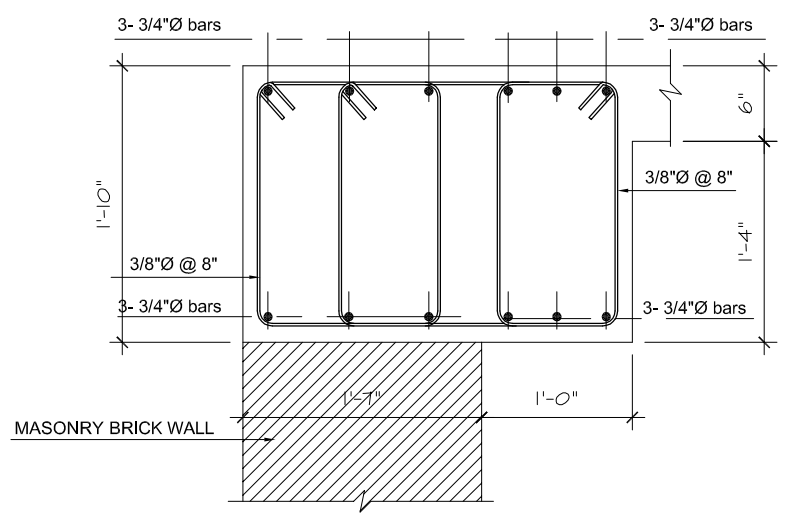
BEAM DETAIL ON GRID LINE D & D1

SCALE 1/4" = 1'-0"

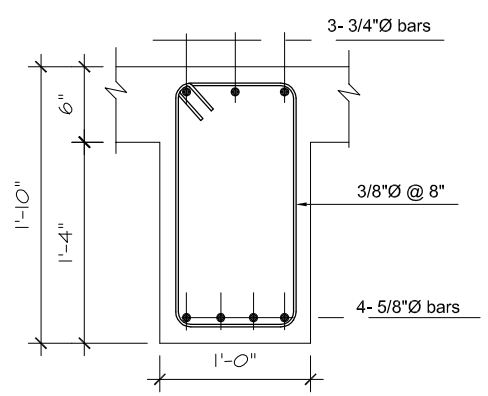


BEAM DETAIL ON GRID LINE E

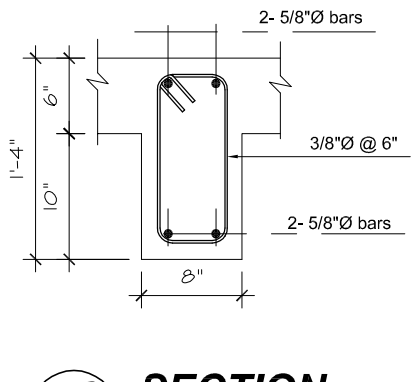
SCALE 1/4" = 1'-0"



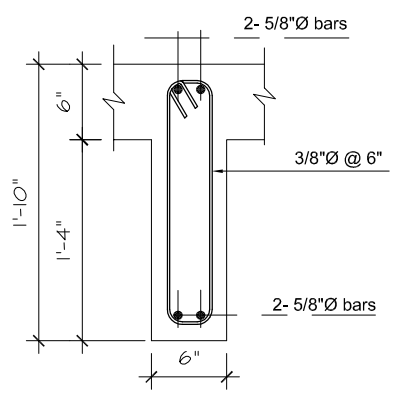
01 **SECTION**
S-06b SCALE: 3/4" = 1'-0"



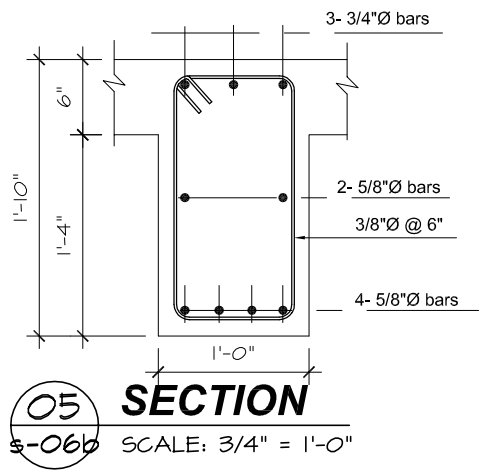
02 **SECTION**
S-06b SCALE: 3/4" = 1'-0"



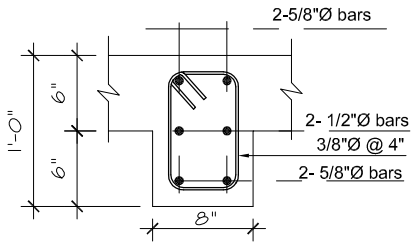
03 **SECTION**
S-06b SCALE: 3/4" = 1'-0"



04 **SECTION**
S-06b SCALE: 3/4" = 1'-0"



05 **SECTION**
S-06b SCALE: 3/4" = 1'-0"



06 **SECTION**
S-06b SCALE: 3/4" = 1'-0"

GENERAL NOTES

GLEANS CONSTRUCTION & ENGINEERING CO .
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PROJECT:

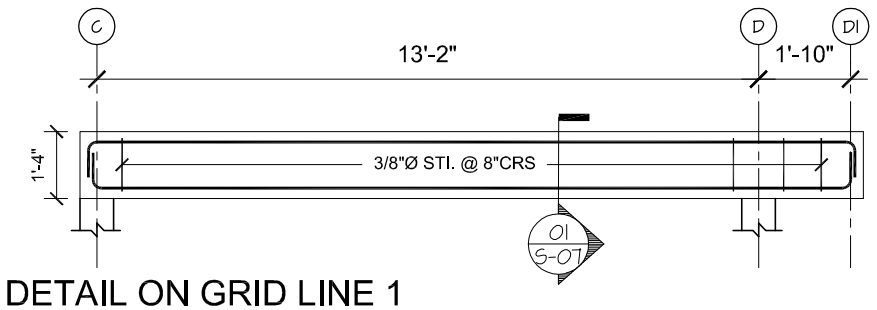
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

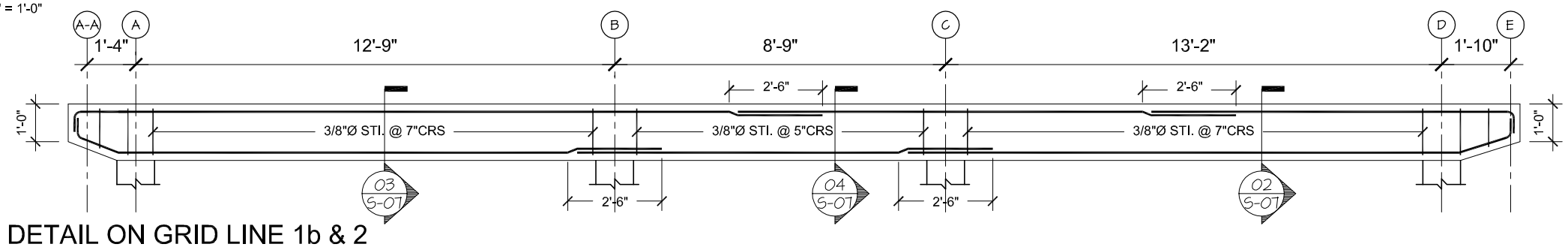
FIRST FLOOR BEAM DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	S-06b
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



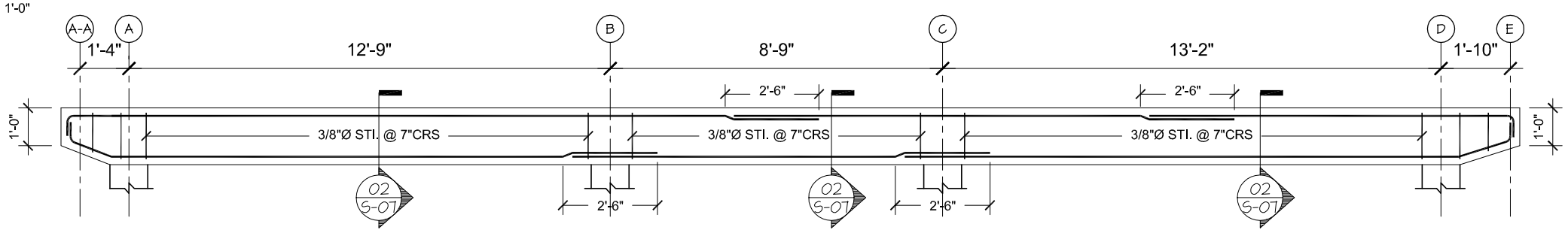
BEAM DETAIL ON GRID LINE 1

SCALE 1/4" = 1'-0"



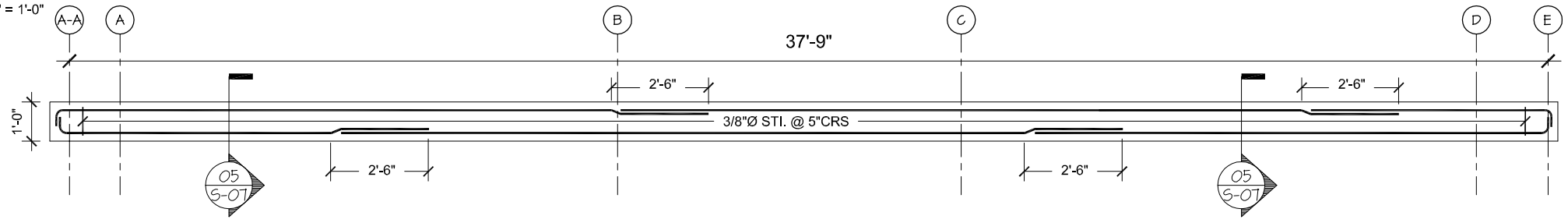
BEAM DETAIL ON GRID LINE 1b & 2

SCALE 1/4" = 1'-0"



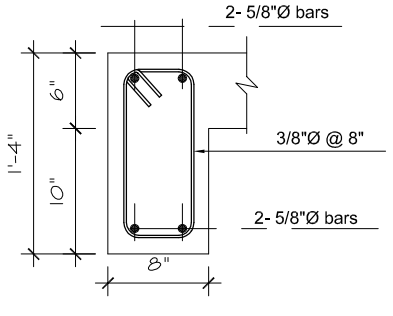
BEAM DETAIL ON GRID LINE 3

SCALE 1/4" = 1'-0"

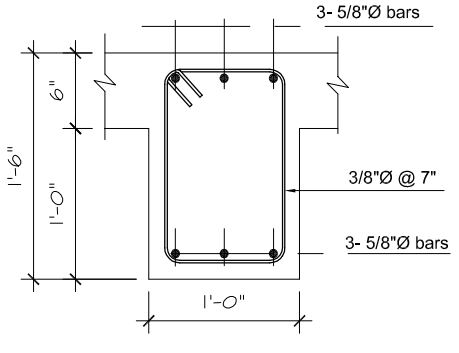


BEAM DETAIL ON GRID LINE 5

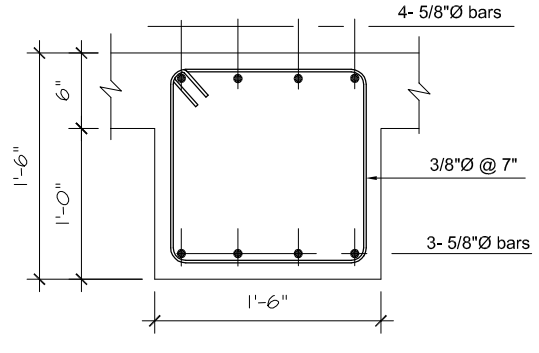
SCALE 1/4" = 1'-0"



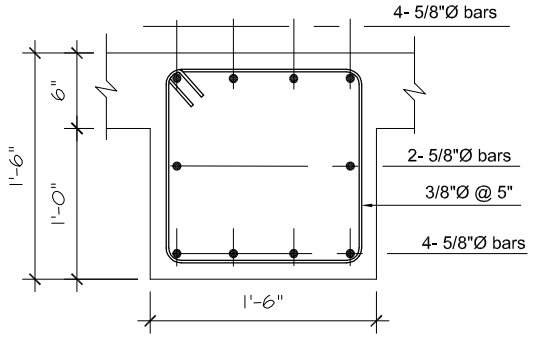
01 S-07 **SECTION**
SCALE: 3/4" = 1'-0"



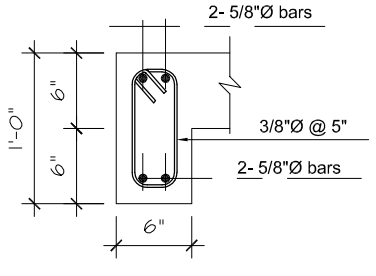
02 S-07 **SECTION**
SCALE: 3/4" = 1'-0"



03 S-07 **SECTION**
SCALE: 3/4" = 1'-0"



04 S-07 **SECTION**
SCALE: 3/4" = 1'-0"



05 S-07 **SECTION**
SCALE: 3/4" = 1'-0"

GENERAL NOTES

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PROJECT:

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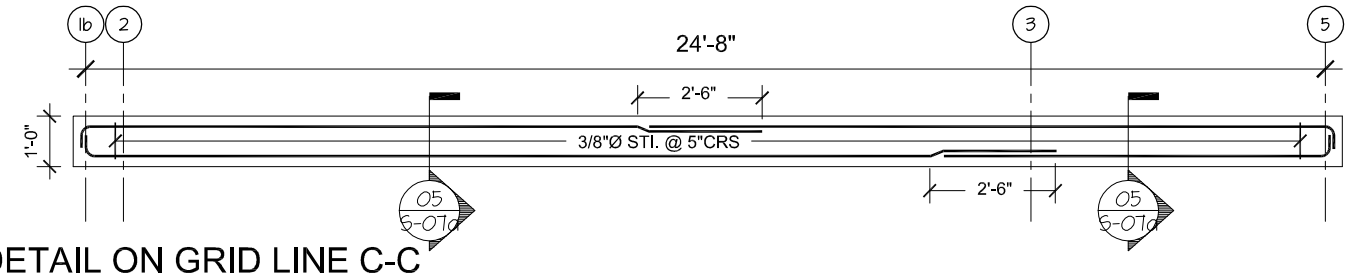
SHEET TITLE:

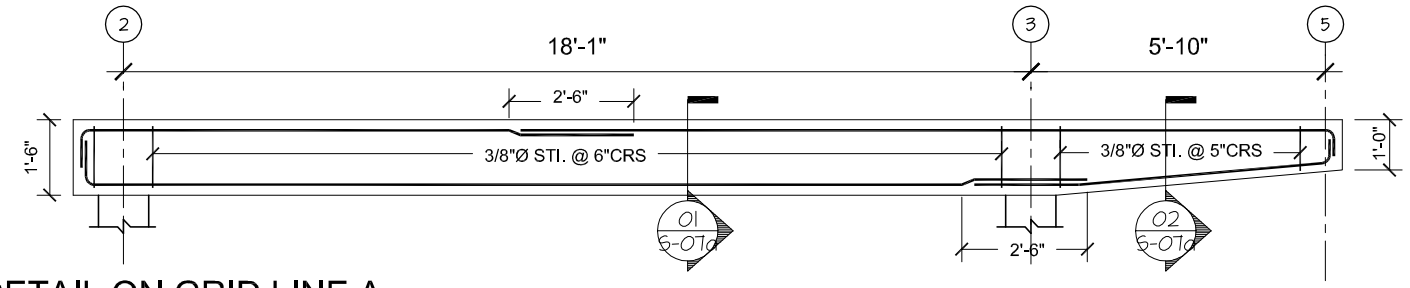
ROOF BEAM DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	**S-07**
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



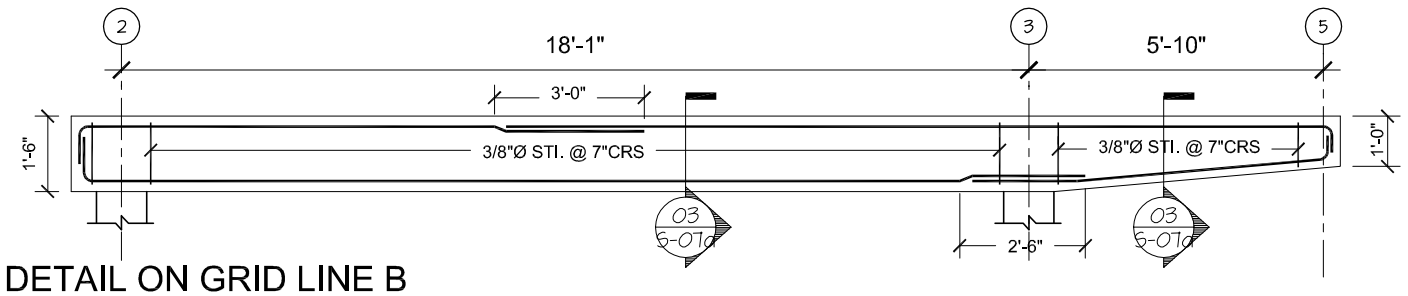
BEAM DETAIL ON GRID LINE C-C

SCALE 1/4" = 1'-0"



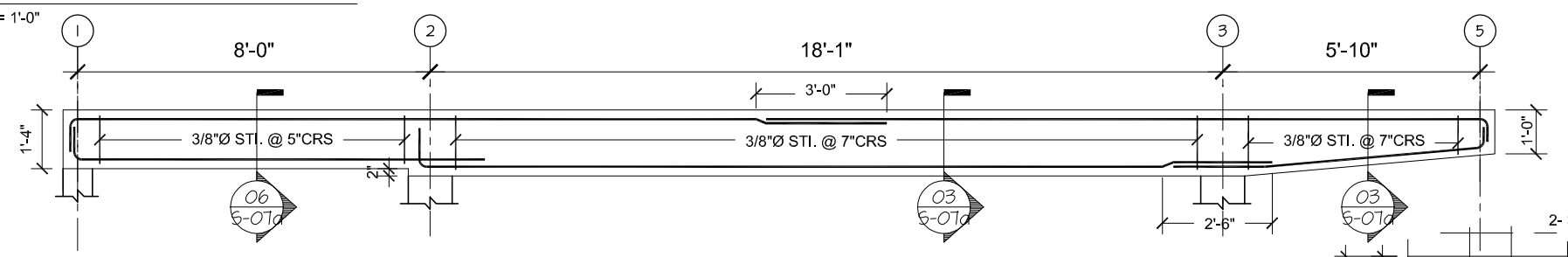
BEAM DETAIL ON GRID LINE A

SCALE 1/4" = 1'-0"



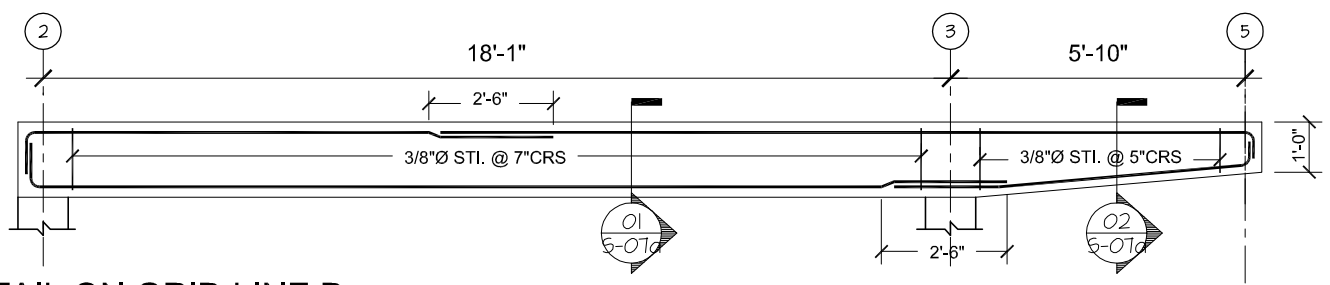
BEAM DETAIL ON GRID LINE B

SCALE 1/4" = 1'-0"



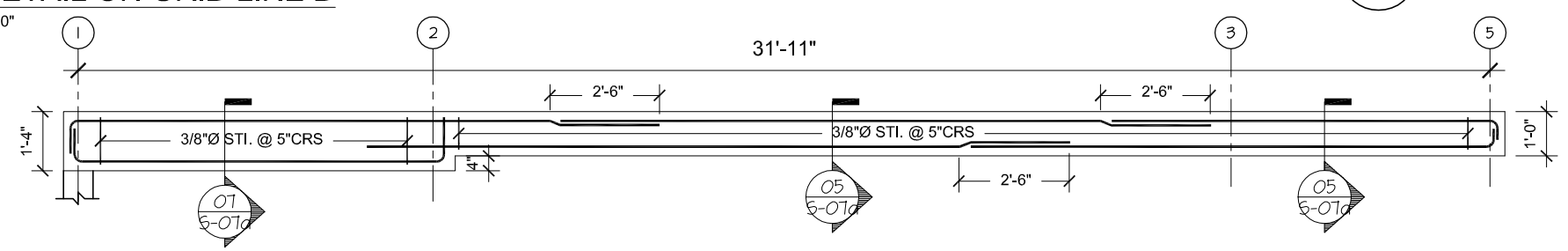
BEAM DETAIL ON GRID LINE C

SCALE 1/4" = 1'-0"



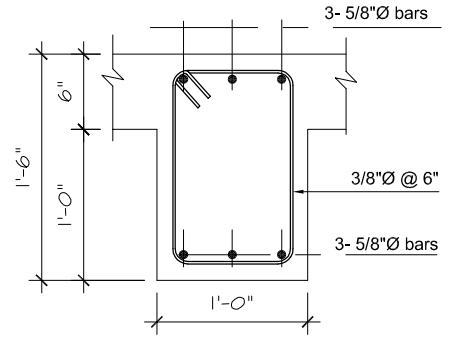
BEAM DETAIL ON GRID LINE D

SCALE 1/4" = 1'-0"

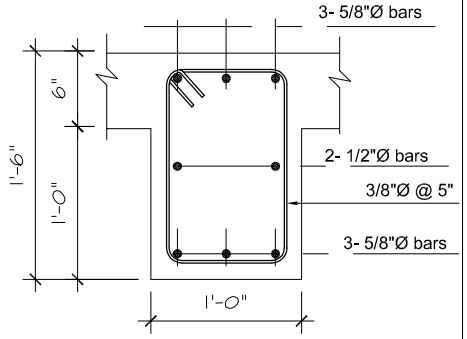


BEAM DETAIL ON GRID LINE E

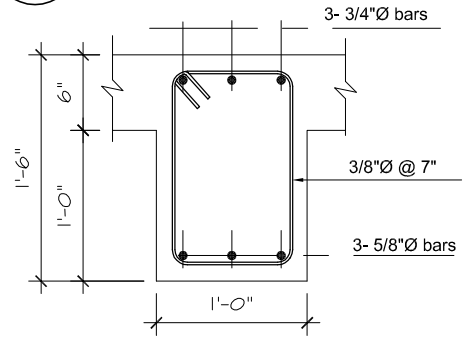
SCALE 1/4" = 1'-0"



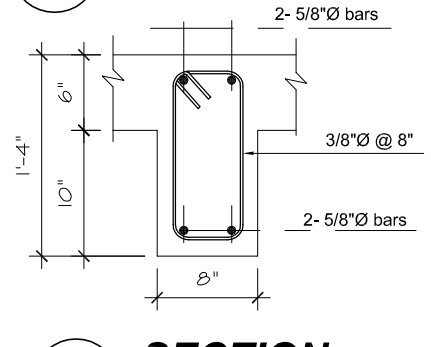
01 S-07a **SECTION** SCALE: 3/4" = 1'-0"



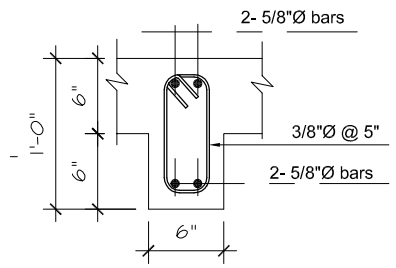
02 S-07a **SECTION** SCALE: 3/4" = 1'-0"



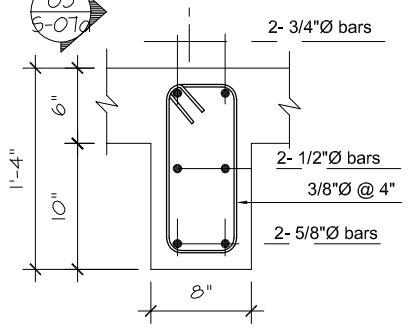
03 S-07a **SECTION** SCALE: 3/4" = 1'-0"



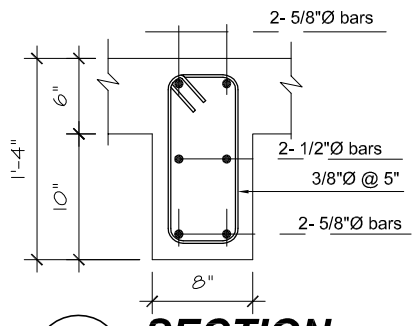
04 S-07a **SECTION** SCALE: 3/4" = 1'-0"



05 S-07a **SECTION** SCALE: 3/4" = 1'-0"



06 S-07a **SECTION** SCALE: 3/4" = 1'-0"



07 S-07a **SECTION** SCALE: 3/4" = 1'-0"

GENERAL NOTES

GLEANS CONSTRUCTION & ENGINEERING CO .

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PHONE:(473) 440-8686/FAX 440-7641
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PROJECT:

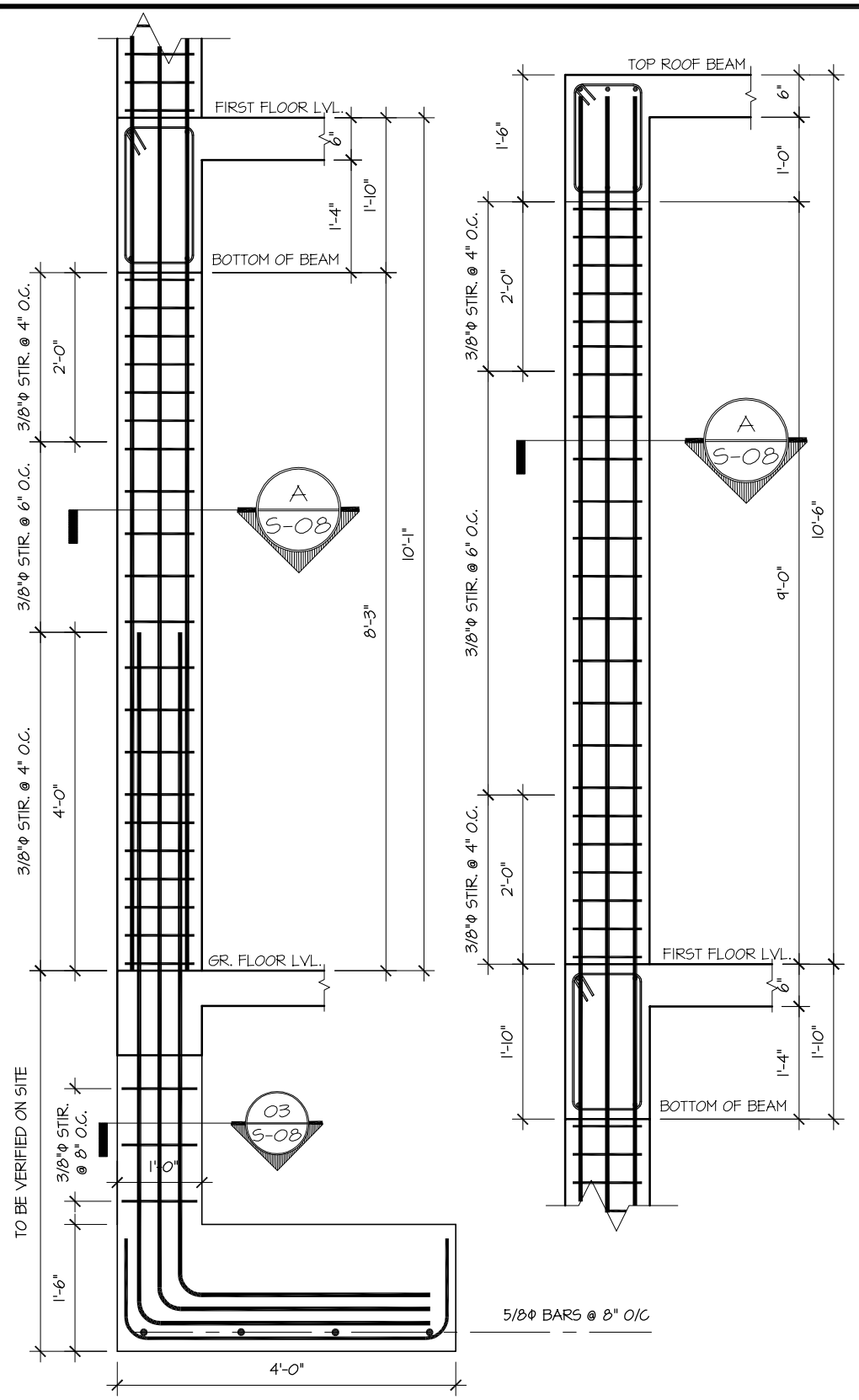
PROPOSED DESIGN FOR GOUYAVE MPA OFFICE

TO BE BUILT AT UPPER DEPRADINE STREET, GOUYAVE, ST. JOHN

SHEET TITLE:

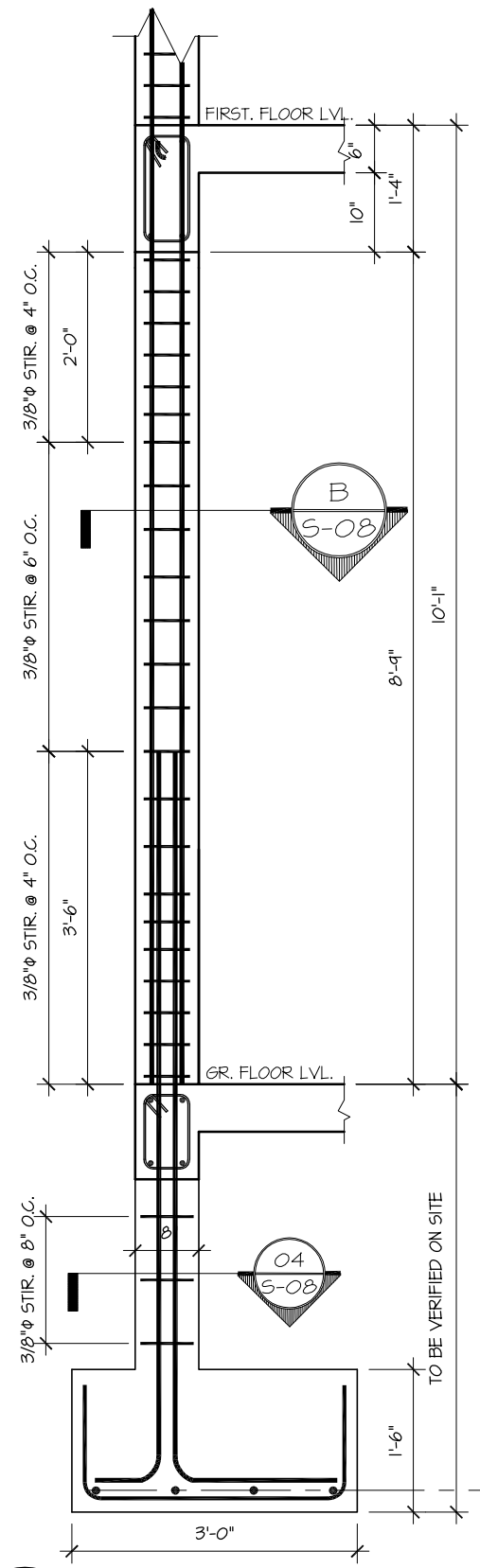
ROOF BEAM DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	S-07a
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



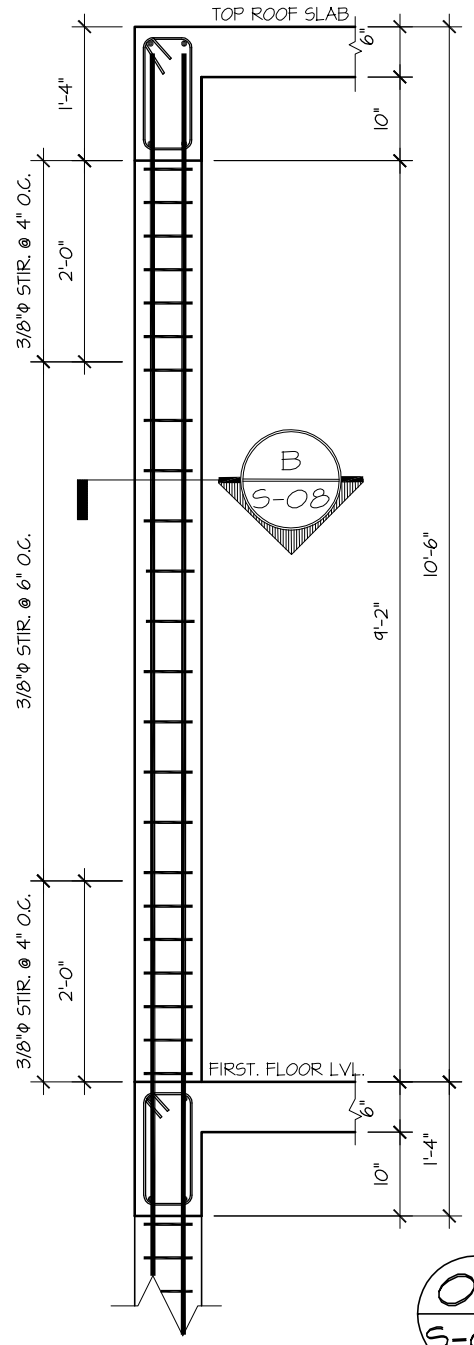
01 S-08 C1. DETAIL WITH PF1.

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



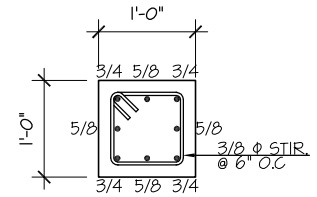
02 S-08 C2. DETAIL WITH PF2.

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



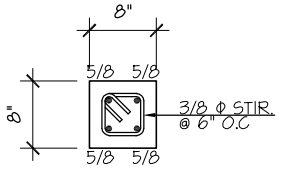
03 S-08 C1. DETAIL WITH PF1.

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



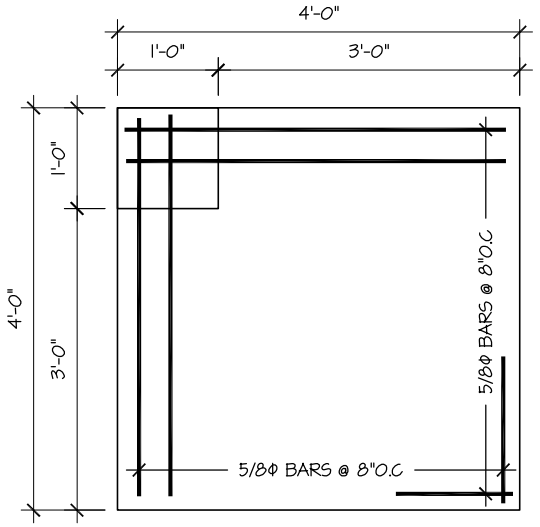
A S-08 "C1." SECTION

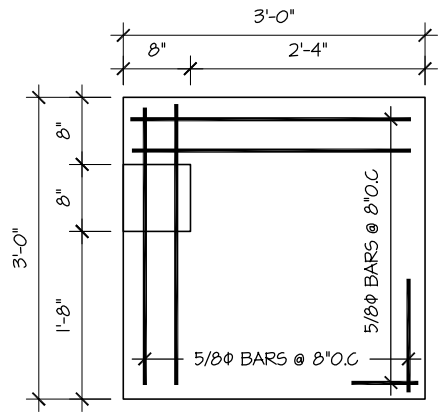
SCALE: 1/2" = 1'-0"



B S-08 "C2." SECTION

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





04 S-08 C2. DETAIL WITH PF2.

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

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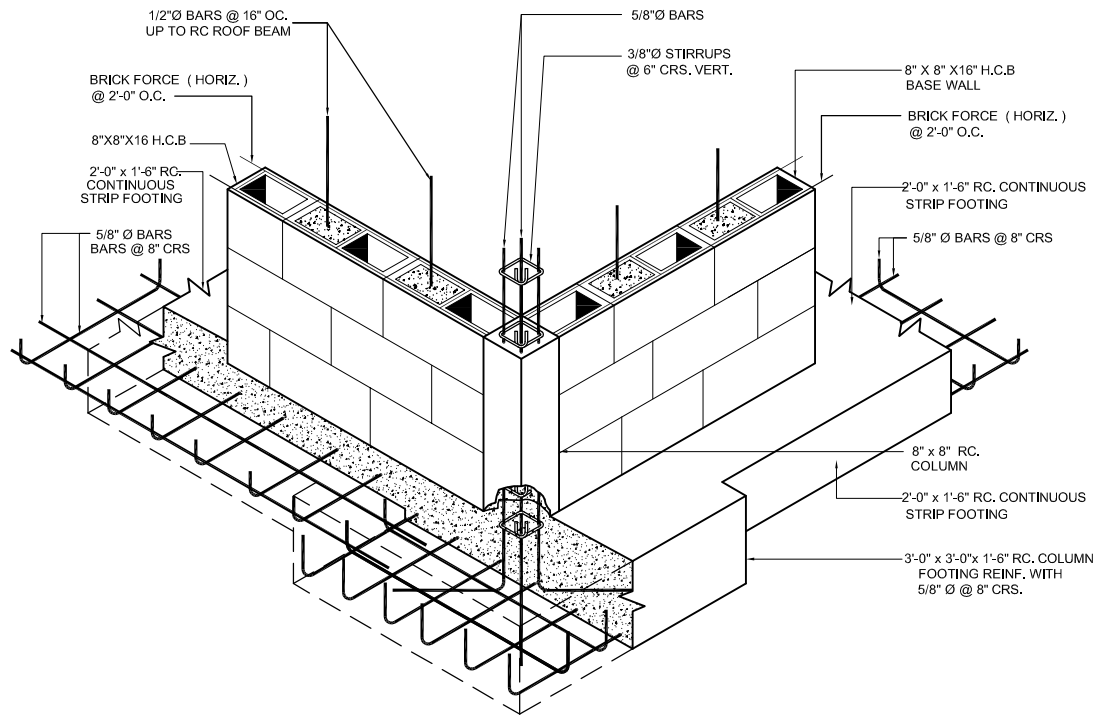
SHEET TITLE:

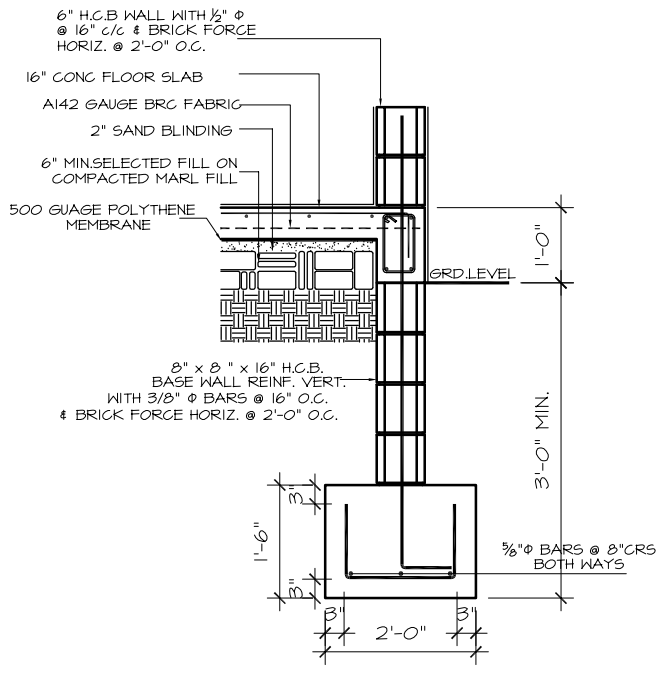
COLUMN DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	S-08
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



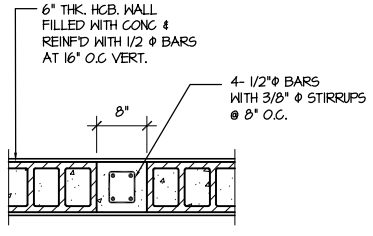
01 / S-09 **CORNER JOINT DETAIL (FOUNDATION)**

SCALE: 3/8" = 1'-0"



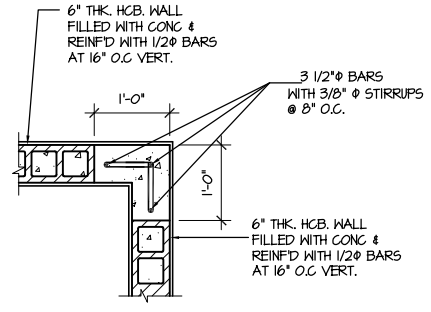
02 / S-09 **SECTION**

SCALE: 3/8" = 1'-0"



03 / S-09 **TYP. STIFFENER DETAIL (WALL)**

SCALE: 3/8" = 1'-0"



04 / S-09 **TYP. CORNER STIFFENER DETAIL (WALL)**

SCALE: 3/8" = 1'-0"

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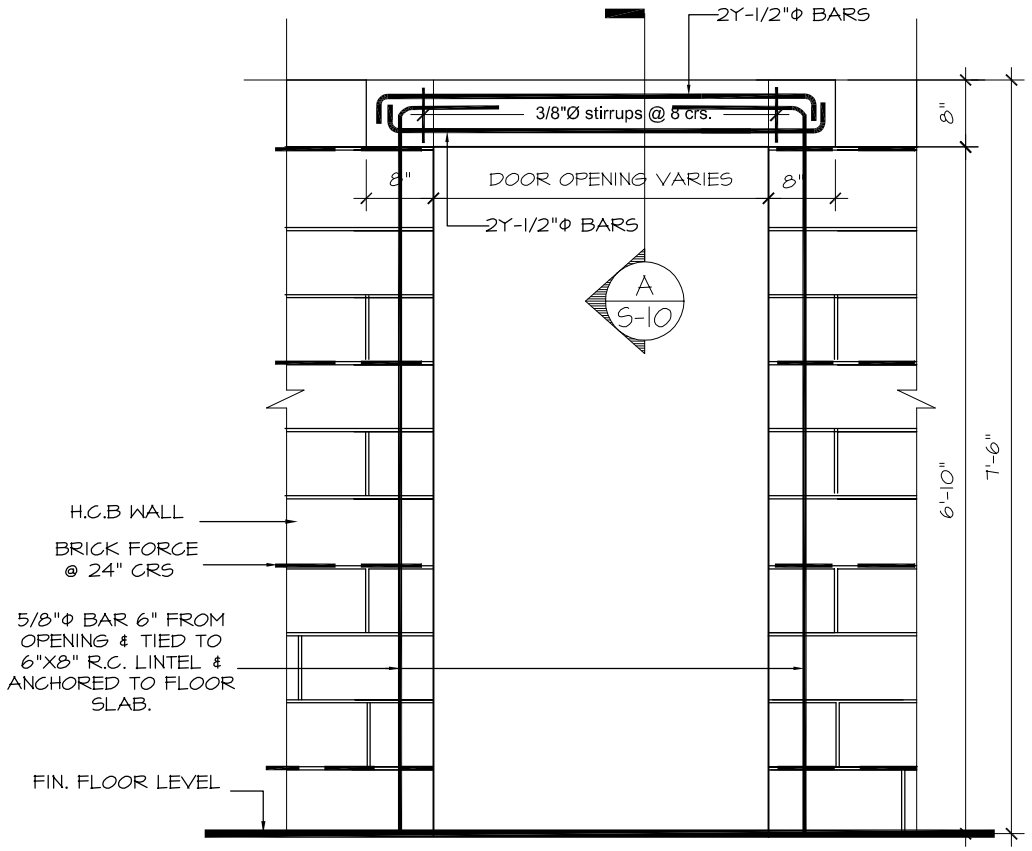
SHEET TITLE:

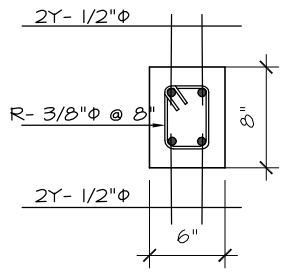
WALL & STIFFENER DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	S-09
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	



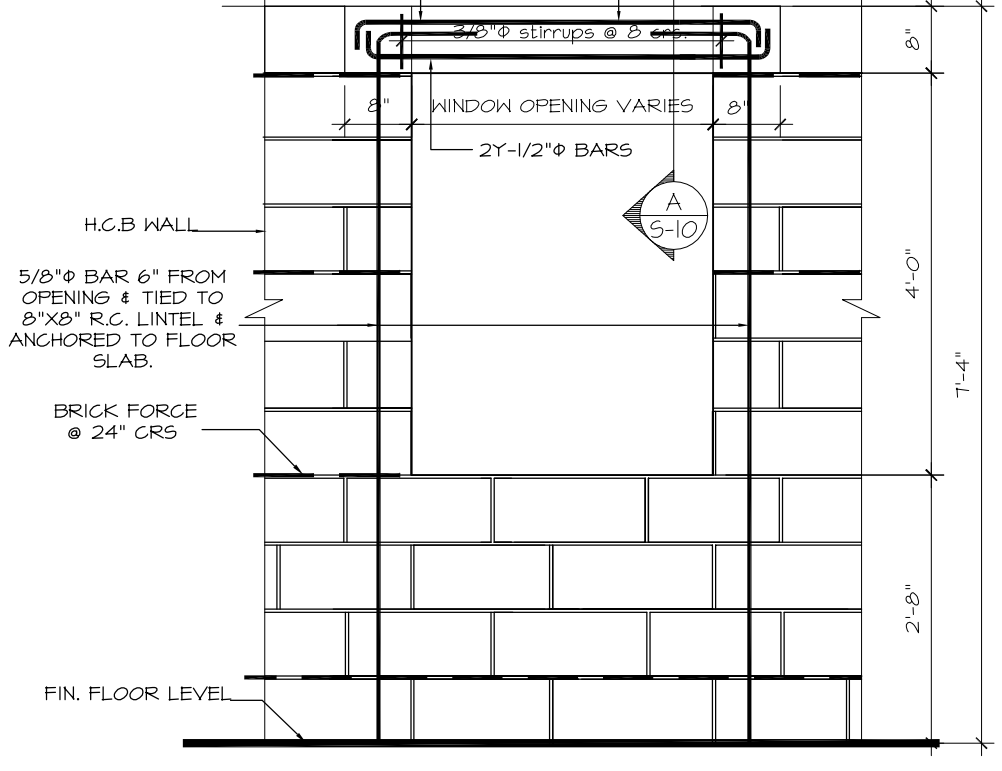
01 / S-10 **DOOR LINTELS DETAILS (TYP.)**

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



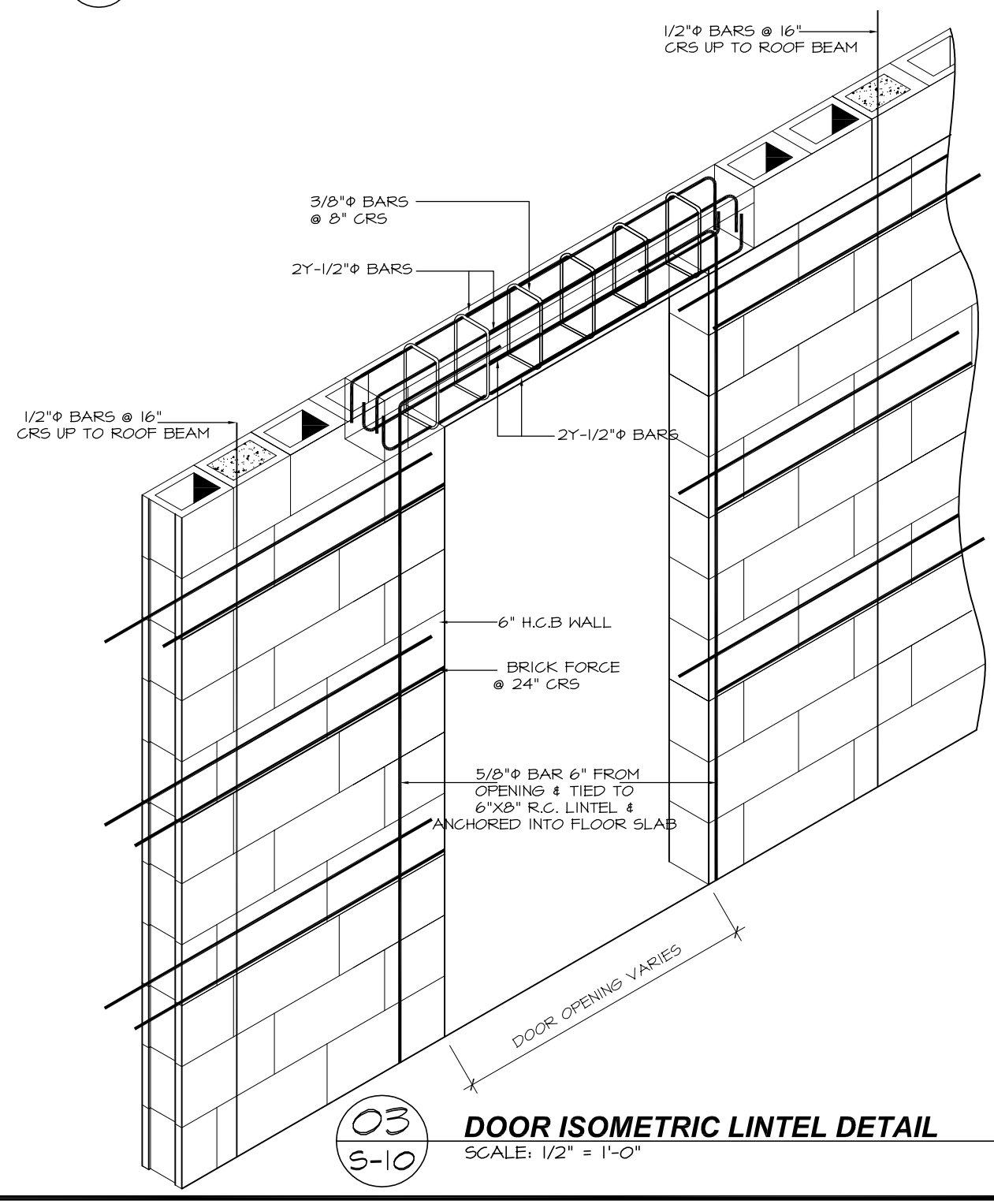
A / S-10 **SECTION "A"**

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



02 / S-10 **WINDOW DETAILS (TYP.)**

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



03 / S-10 **DOOR ISOMETRIC LINTEL DETAIL**

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

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PROJECT:

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SHEET TITLE:

WINDOW & DOOR LINTEL DETAILS

ENGINEERED BY:	DRAWN BY:	CHECKED BY:	SHEET NO.
S.BARROCK	DRAFTING OFFICE	C.GLEAN	**S-10**
DATE: JANUARY/2018	SCALE: AS SHOWN	PROJECT NO: 17-433	