

DIMENSION NOTES

- EXISTING DIMENSIONS ARE FIELD MEASUREMENTS AND MAY VARY FROM SITE CONDITIONS.
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS OF THE EXISTING CONDITIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH FABRICATION.
- ALL DIMENSIONS ARE FIELD MEASUREMENTS AND APPROXIMATE THE EXISTING PLAN, ELEVATIONS AND LAYOUT. NO PRECISION, ACCURACY NOR TOLERANCE IS IMPLIED IN THESE DIMENSIONS.
- FIELD MEASUREMENTS OF EXISTING CONDITIONS HAVE INHERENT ERRORS THAT MUST BE CONFIRMED BY THE CONTRACTOR. THE PROFESSIONAL ENGINEER'S STAMP DOES NOT ASSUME LIABILITY OF ERROR FOR ANY FIELD MEASUREMENTS.

- GENERAL NOTES**
- PROJECT SHALL CONFORM WITH THE FOLLOWING CODES/STANDARDS:
 - ONTARIO BUILDING CODE 2012 (OBC 2012)
 - AS PER SECTION 53 OF O.REG 941, THESE DRAWINGS CAN ONLY BE USED FOR THE INTENDED PURPOSE AS INDICATED IN THE TITLE BLOCK.

- DESIGN LOADS**
- STRUCTURE IS IN RIDEAU LAKES, ON. CLIMATIC DATA WAS BASED ON MMAH SB-1 (2012) FOR SMITHS FALLS (CITY HALL), ON.

DEAD LOAD	0.75 kPa (16 psf)	
LIVE LOAD	1.9 kPa (40 psf)	FLOOR
	1.0 kPa (21 psf)	ROOF
SNOW LOAD	Ss: 2.3 kPa	SPECIFIED SNOW
	Sr: 0.4 kPa	SPECIFIED RAIN

MASONRY NOTES

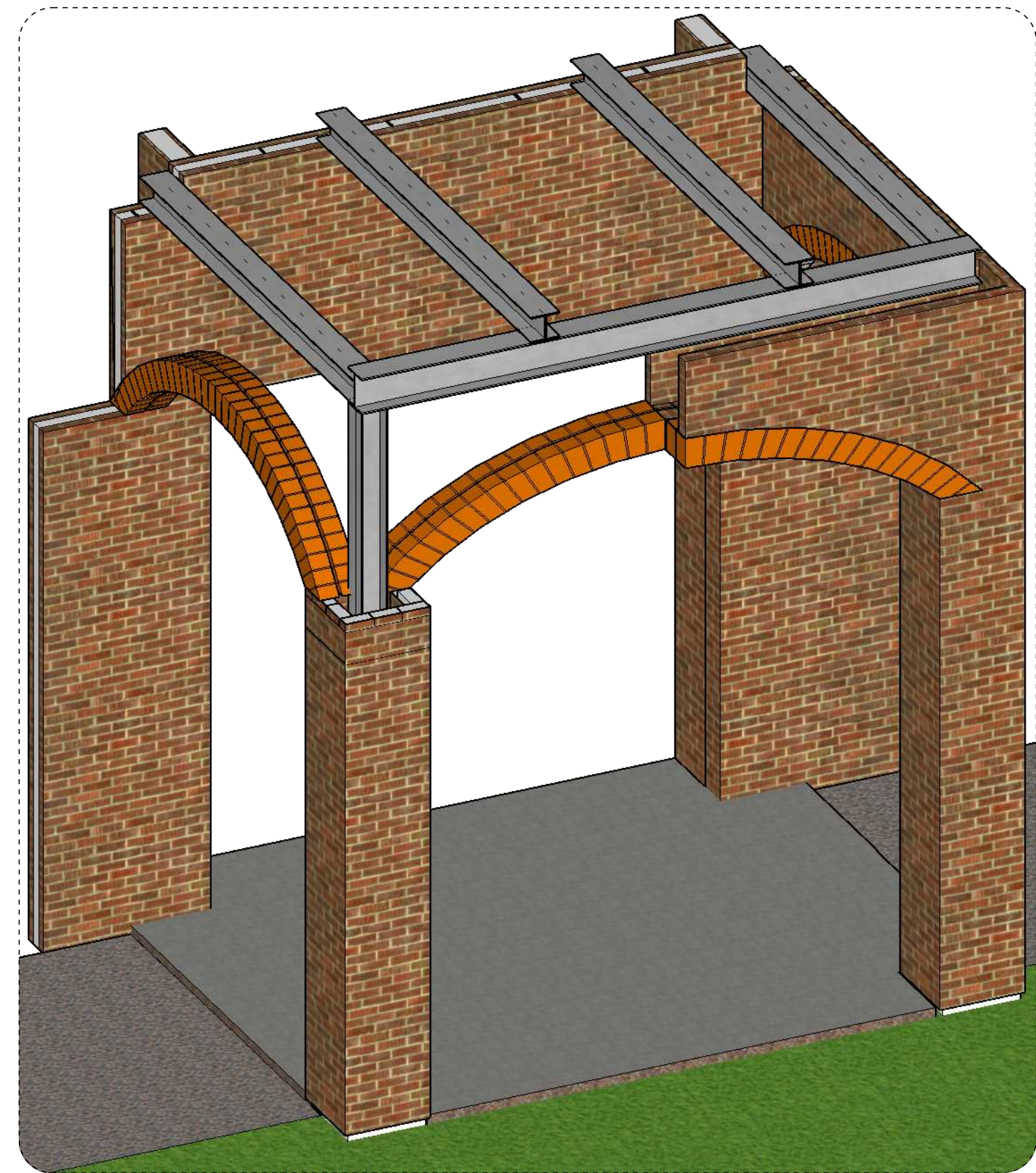
- PROVIDE LATERAL TIES TO COLUMNS AT EACH COURSE OF JOINT REINFORCING.
- PROJECT SHALL CONFORM TO THE FOLLOWING
- CODES & STANDARDS:
 - CSA S304: DESIGN OF MASONRY STRUCTURES.
 - CSA A165 SERIES-14: STANDARD ON CONCRETE MASONRY UNITS.
 - CSA A179: MORTAR AND GROUT FOR UNIT MASONRY.
 - CSA A371: MASONRY CONSTRUCTION FOR BUILDINGS.
 - CSA A370: CONNECTORS FOR MASONRY.
- MASONRY CONSTRUCTION TO HAVE THE FOLLOWING PROPERTIES UNLESS NOTED OTHERWISE:

BLOCK	STANDARD UNITS 6" CMU BLOCKS - 5 5/8" X 7 5/8" X 15 5/8" (6" X 8" X 16" NOMINAL) COMPRESSIVE STRENGTH = 15MPa
MORTAR	TYPE S
f _m	HOLLOW = 9.8 MPa SOLID = 7.5 MPa
GROUT	20MPa
JOINT REINFORCING	LAP LENGTH = 300mm
REBAR	15M GRADE 400 LAP LENGTH = 750mm

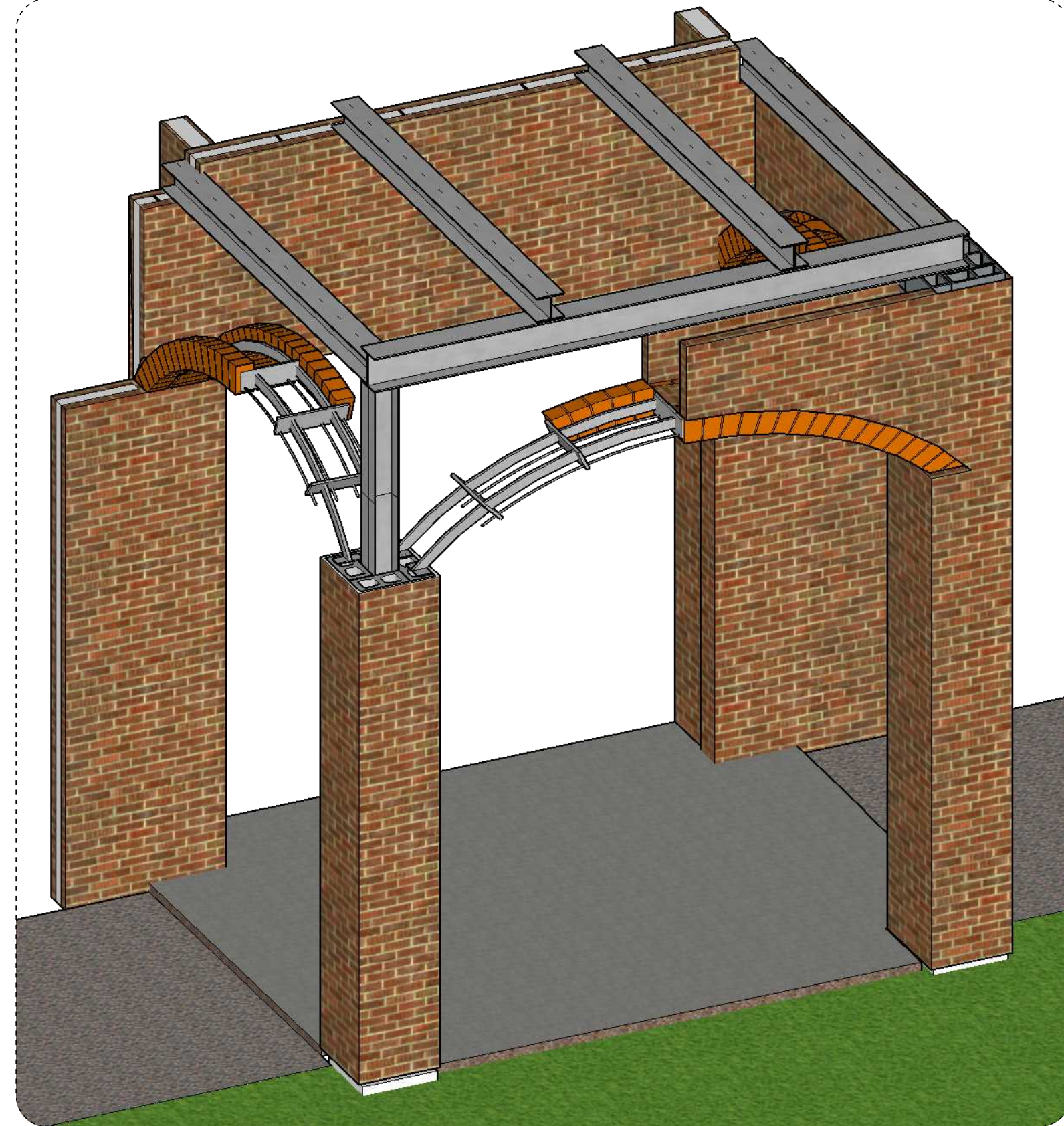
- HORIZONTAL JOINT REINFORCING SHALL BE PROVIDED ABOVE FIRST COURSE, BELOW LAST COURSE.
- MASONRY CONSTRUCTION SHALL CONFORM TO CAN/CSA -A371-04 USING CONNECTORS CONFORMING TO CAN/CSA -A370-04.
- LAY MASONRY IN RUNNING BONDS PATTERN.

Ontario Building Code Data Matrix Part 4: Structural Design			
Building Code Version: O.Reg. 332/12 Last Amendment: O. Reg. 191/14			Building Code Reference
Project Type:	Renovation		Div. A.1.1.2.
Description:	Township of Rideau lakes		
Major Occupancy Classification:	Group A, Div 2	Use: Business and personal service	Div. A.1.1.2.(1).a Div. A.3.1.2.1.(1)
Importance Category:	Post Disaster		Div. B.4.1.2.1.(3) Div. B.5.2.2.1.(2)
Superimposed Dead Loads	Location	Description	Load (kPa)
	Second Floor	Floor	0.75kPa
		Walls	1.8kN/m
	Brick veneer	???	Div. B.4.1.4.1.(3)
Live Loads	Importance Factor:	1.0 (Normal)	(ULS)
	Location	Description	Load (kPa)
	Roof	Residential	1kPa
Snow Loads	Importance Factor, Is:	1.0(Normal)	(ULS) 0.9(Normal) (SLS)
	1 in 50 Year Ground Snow, Ss:	2.3	
	1 in 50 Year Rain Load, Sr:	0.4	
	Basic Roof Snow Load Factor, Cb	0.8	
	Calculation Method	Part 4	
Lateral Force Resisting System:	Existing to Remain		

Ontario Building Code Data Matrix Part 11 Renovation			
Building Code Version: O.Reg. 332/12 Last Amendment: O. Reg. 191/14			Building Code Reference
Project Type:	Addition		Div. A.1.1.2.
Description:	Elgin Municipal Centre		
Major Occupancy Classification:	Group A, Div 2	Use: Business and personal service	Div. B.9.10.2. Div. B.3.1.2.1.(1)
Superimposed Major Occupancies:	No, Yes		Div. B.9.10.2.3. Div. B.3.2.2.7.
Building Height	Stores Above Grade:	1	Height Above Grade: 7.9
	Stores Below Grade:	0	
Number of Streets & Firefighter Access	Streets: 1		Div. B.9.10.20. Div. B.3.2.2.10. Div. B.3.2.5.
	Building Size	Large	
Existing Building Classification	Description	T11.2.1.1K for Stores	
	Change in Major Occupancy:	No Change	
	Construction Index:	3	
Renovation Type	Hazard Index:	6	
	Importance Category:	Normal	
Occupant Load	Floor Level/Area	Occupancy Type	Based On
	Main Floor	Store	4.6
	Second Floor	Offices	9.3
	Ratio: 1:1, Male:Female, Unless noted otherwise		Occupant Load (Persons)
Plumbing Fixture Requirements	Floor Level/Area	Occupant Load	OBC
	Main Floor	256	130
	Second Floor	18	0
Barrier Free Design	Yes	Existing to remain	
	Explanation:		
Reduction in Performance Level	Structural:	No	
	By increase in occupant load:	No-Existing to remain	
	By change of major occupancy:	No	
	Plumbing:	No	
	Sewage-systems:	No	
	Extension of Combustible Construction	No	
Compensating Construction	General	No	
	Structural	No	
	Increase in occupant load:	No	
	Change in Major Occupancy:	No	
	Plumbing	No	
	Sewage Systems	No	
Alternatives	Extension of Combustible Construction	No	
	No	Div. B.11.5.1.	



EXISTING STRUCTURE
NOT TO SCALE



PROPOSED STRUCTURE
NOT TO SCALE

UNSTAMPED
NOT FOR PERMIT
NOT FOR CONSTRUCTION

THIS DOCUMENT WAS DIGITALLY SEALED.
CONTACT US TO VERIFY AUTHENTICITY.
THIS DRAWING CANNOT BE RELIED UPON UNLESS SEALED AND SIGNED.

1	AFM	December 8, 2022	ISSUED FOR REVIEW
NO.	BY	DATE	REVISIONS

Intelligent, Intuitive, Inspired
IN ENGINEERING + SURVEYING
 Surveying
 Planning
 Building Design
 Engineering
 www.inengineering.ca
 51 King St East, Suite 205, Brockville, ON
 info@ineng.ca | 613-342-2611

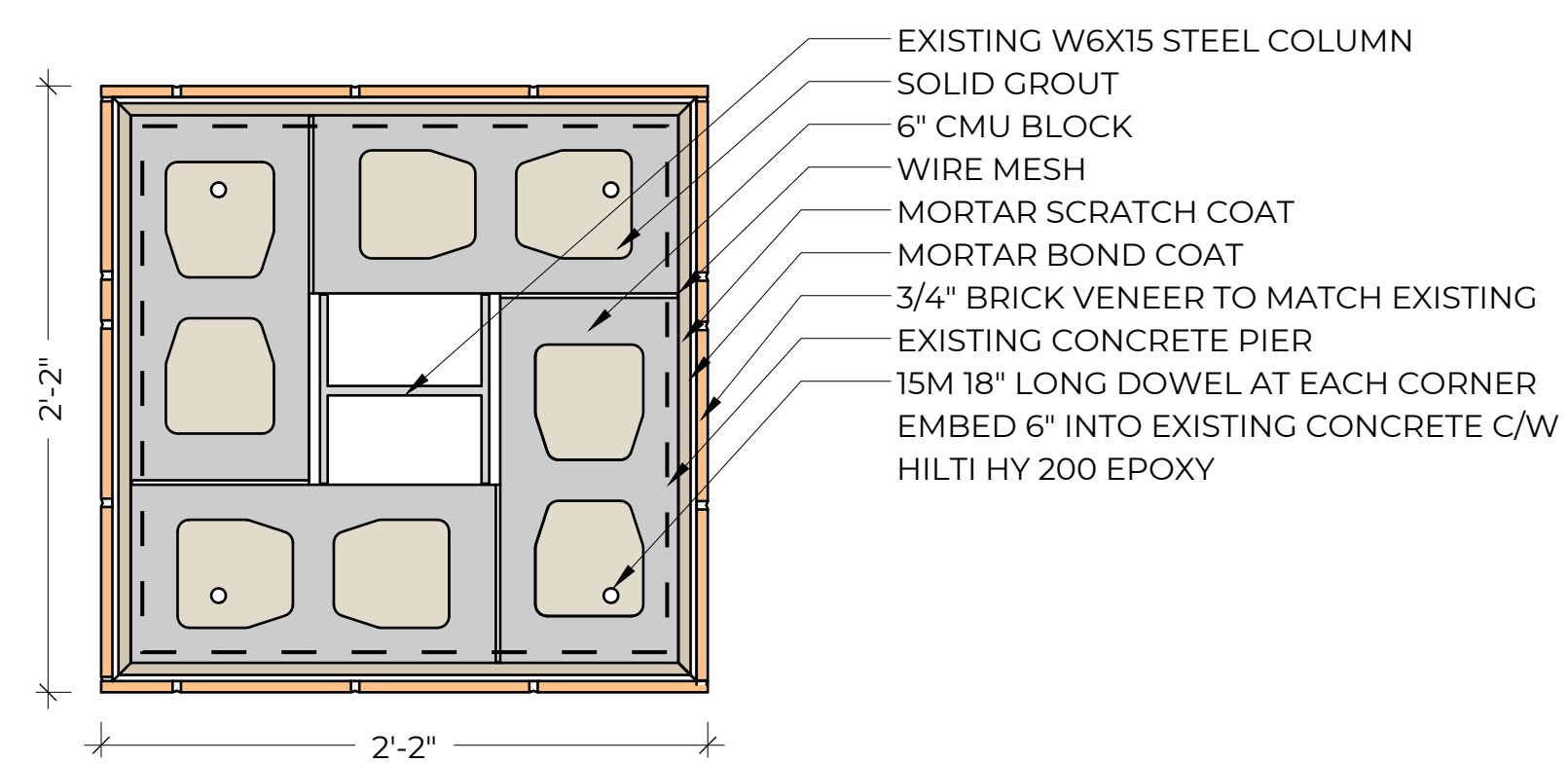
REVIEWER	DESIGNER	DRAFTER	FILE NO.
AFM	AFM	YK	10538

ELGIN MUNICIPAL CENTRE
 Township of Rideau Lakes
 Malcolm Norwood

GENERAL ARRENGENT

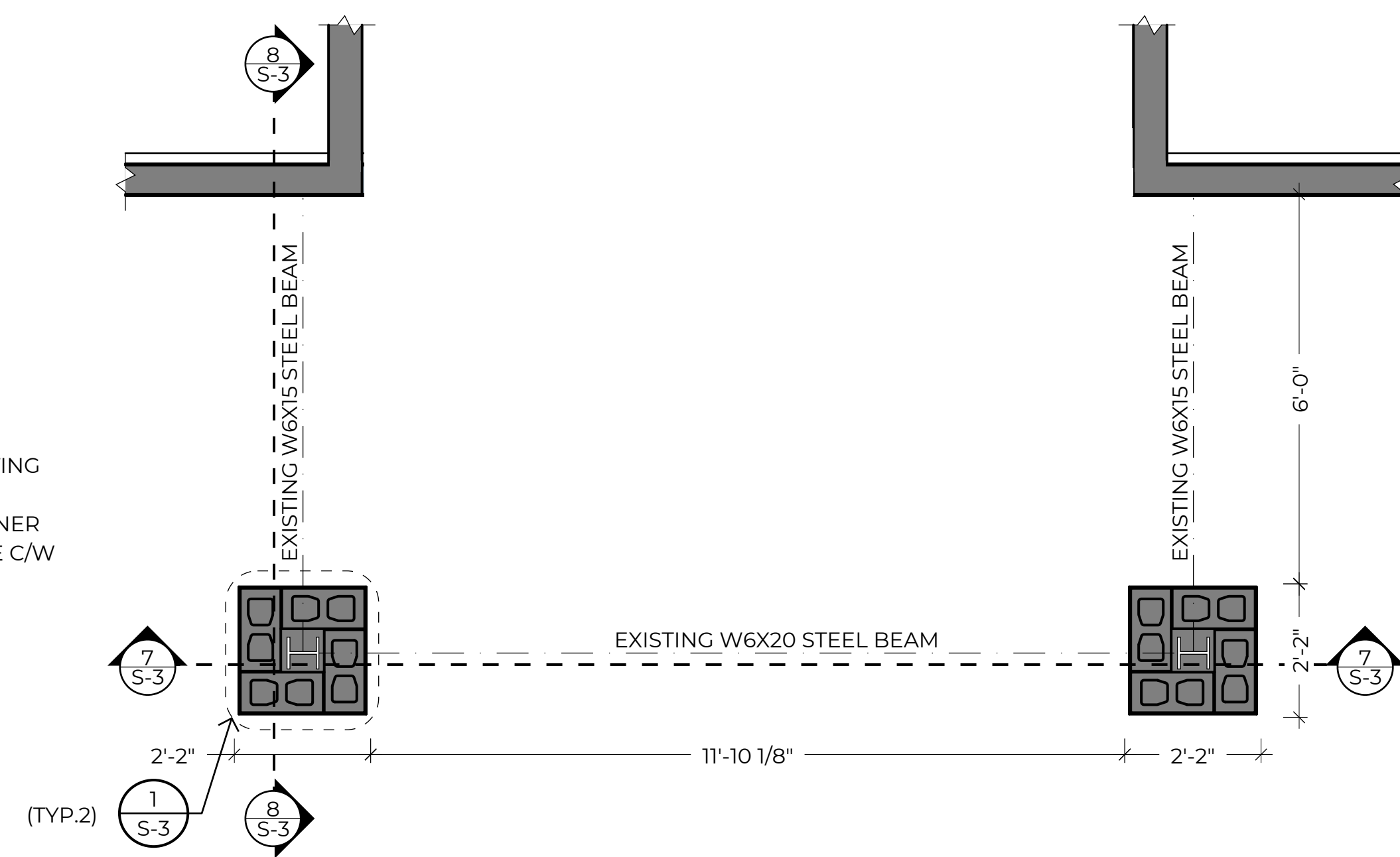
COVER PAGE

GA-1



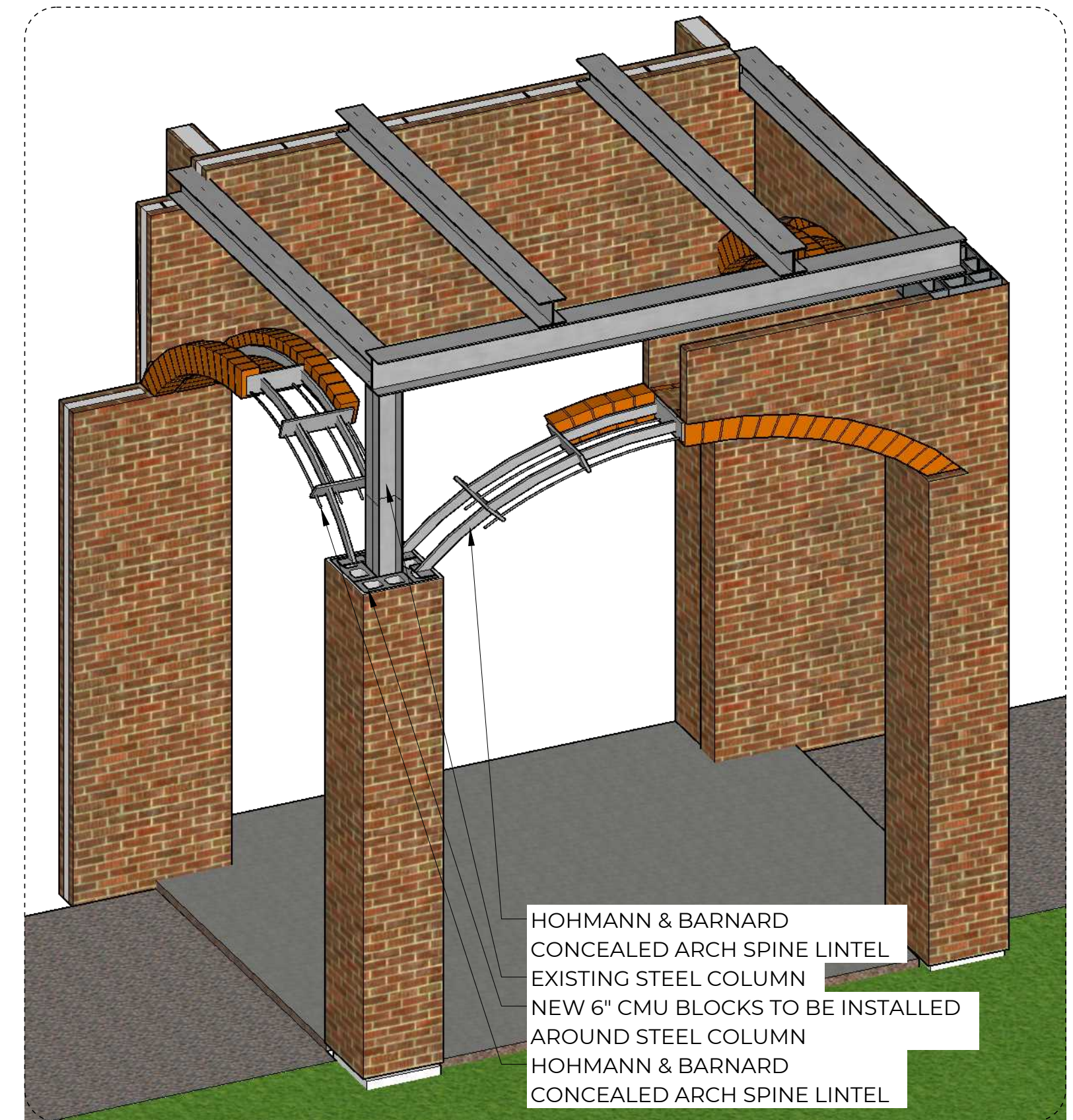
PROPOSED COLUMN DETAIL
1/2" = 1'-0" (1:8)

1
S-3



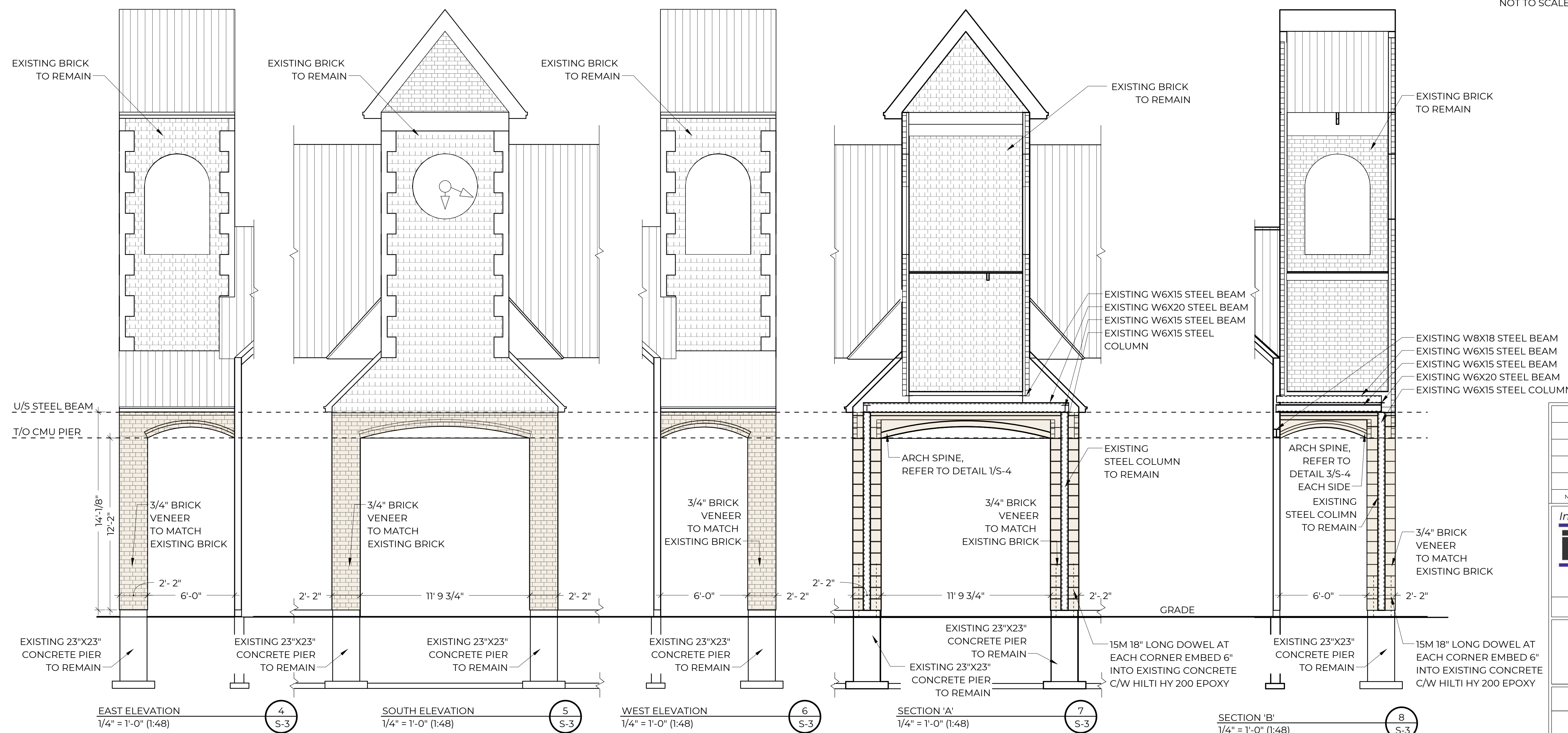
PROPOSED FIRST FLOOR PLAN
1/2" = 1'-0" (1:24)

2
S-2



ISO DETAIL
NOT TO SCALE

3
S-3



EAST ELEVATION
1/4" = 1'-0" (1:48)

SOUTH ELEVATION
1/4" = 1'-0" (1:48)

WEST ELEVATION
1/4" = 1'-0" (1:48)

SECTION 'A'
1/4" = 1'-0" (1:48)

SECTION 'B'
1/4" = 1'-0" (1:48)

4
S-3

5
S-3

6
S-3

7
S-3

8
S-3

UNSTAMPED
NOT FOR PERMIT
NOT FOR CONSTRUCTION

THIS DOCUMENT WAS DIGITALLY SEALED.
CONTACT US TO VERIFY AUTHENTICITY.
THIS DRAWING CANNOT BE RELIED UPON UNLESS
SEALED AND SIGNED.

NO.	BY	DATE	REVISIONS
1	AFM	December 8, 2022	ISSUED FOR REVIEW

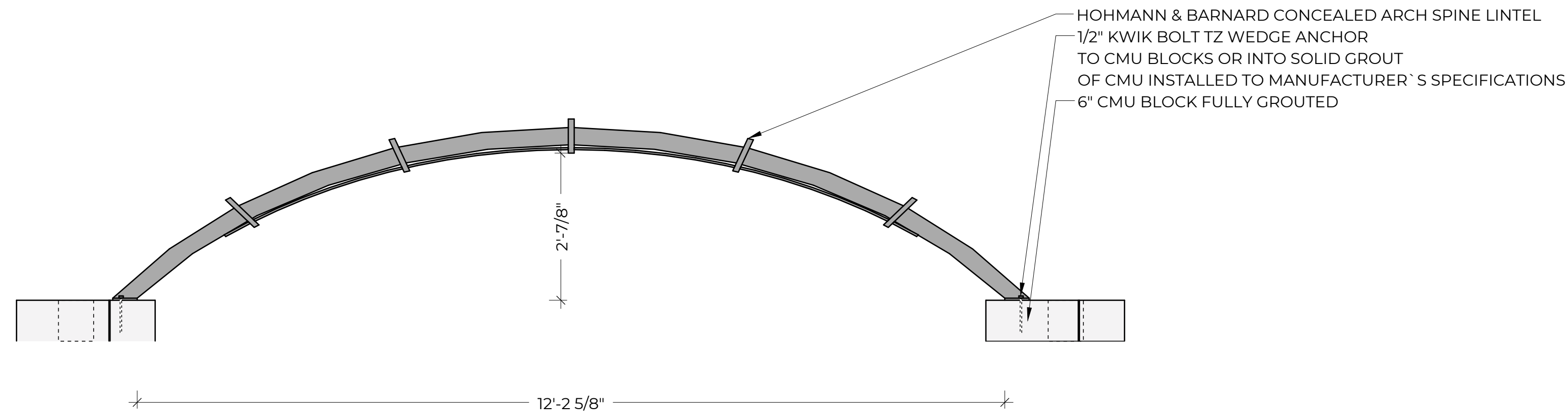
IN ENGINEERING + SURVEYING
 Intelligent, Intuitive, Inspired
 Surveying
 Planning
 Building Design
 Engineering
 www.inengineering.ca
 51 King St East, Suite 205, Brockville, ON
 info@ineng.ca | 613-342-2611

REVIEWER	DESIGNER	DRAFTER	FILE NO.
AFM	AFM	YK	10538

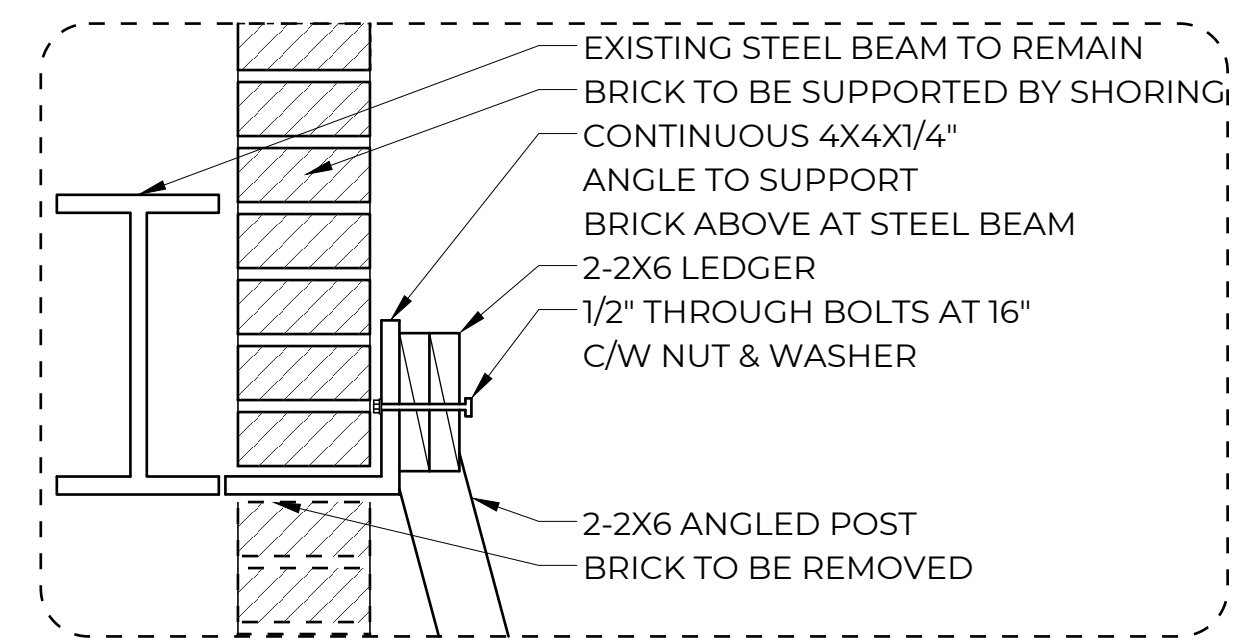
ELGIN MUNICIPAL CENTRE
 Township of Rideau Lakes
 Malcolm Norwood

STRUCTURAL
 CONSTRUCTION PLAN

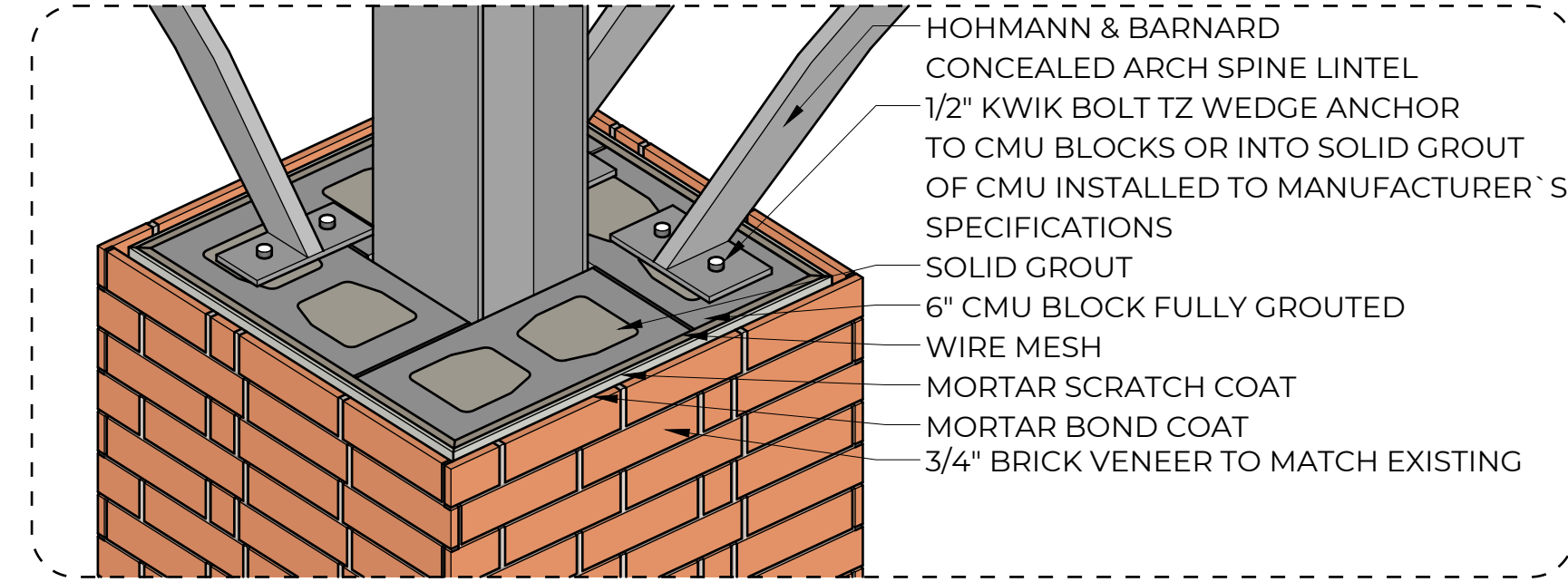
S-3



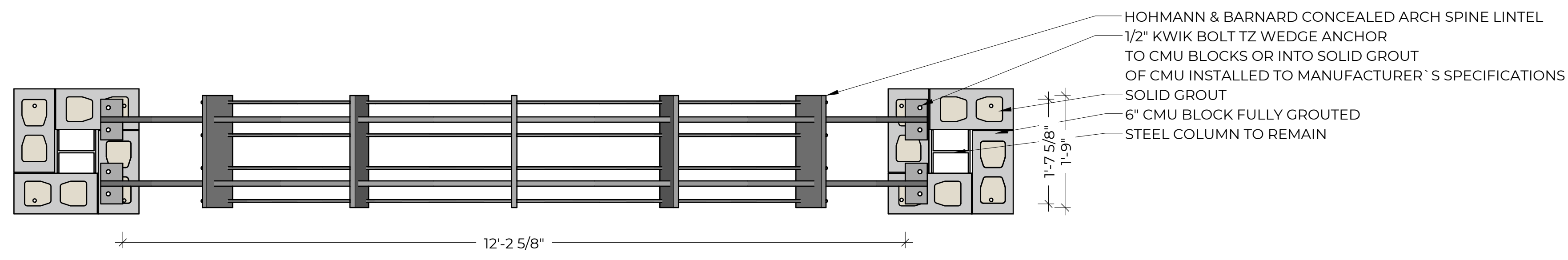
SOUTH ARCH ELEVATION DETAIL
3/4" = 1'-0" (1:16) ① S-4



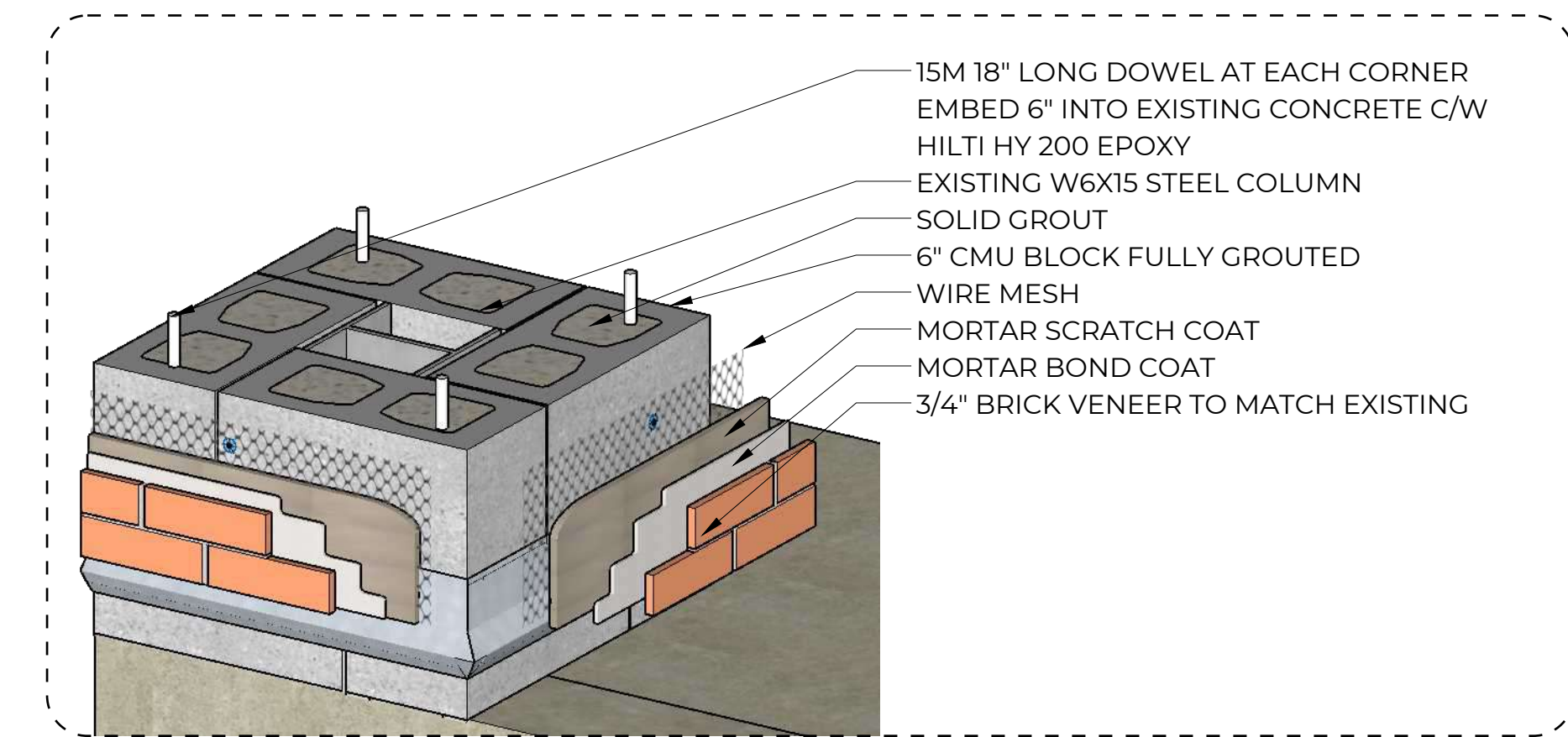
SHORING CONNECTION DETAIL
NOT TO SCALE ⑤ S-4



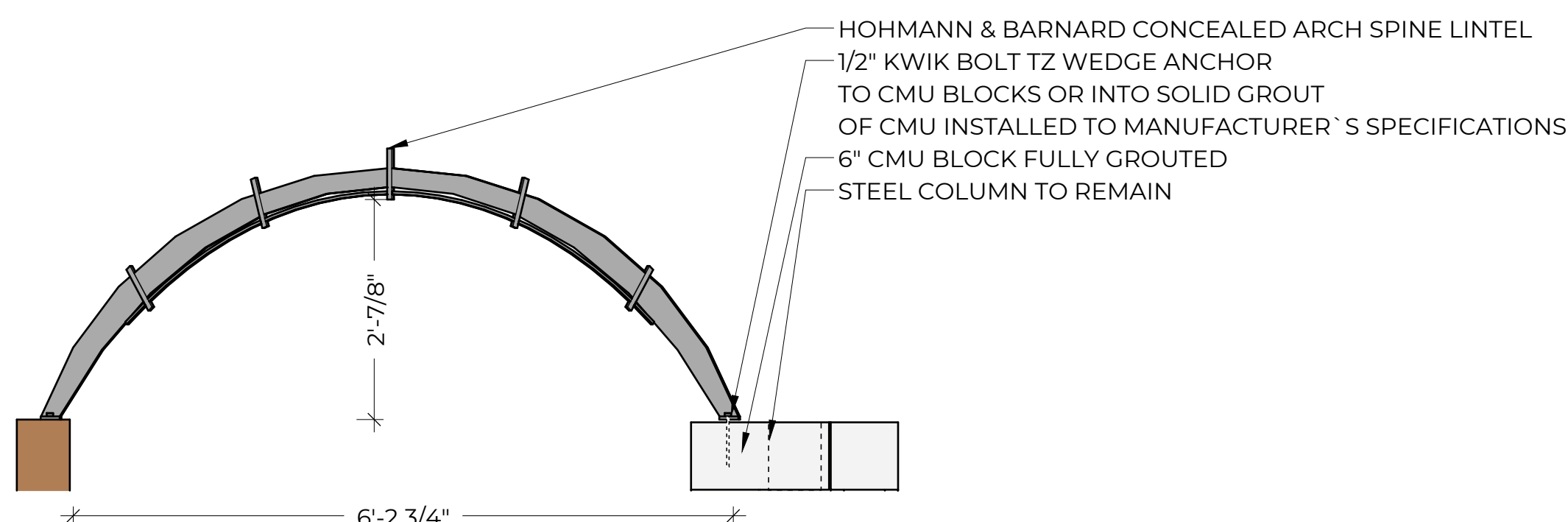
ISO DETAIL
NOT TO SCALE ⑥ S-4



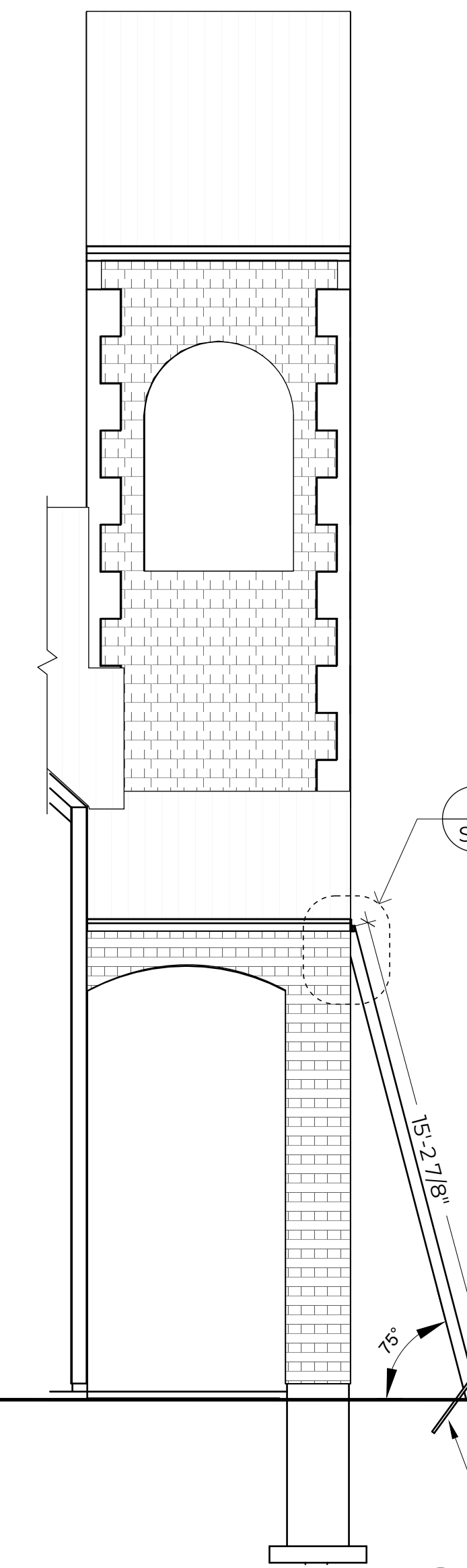
SOUTH ARCH PLAN DETAIL
3/4" = 1'-0" (1:16) ② S-4



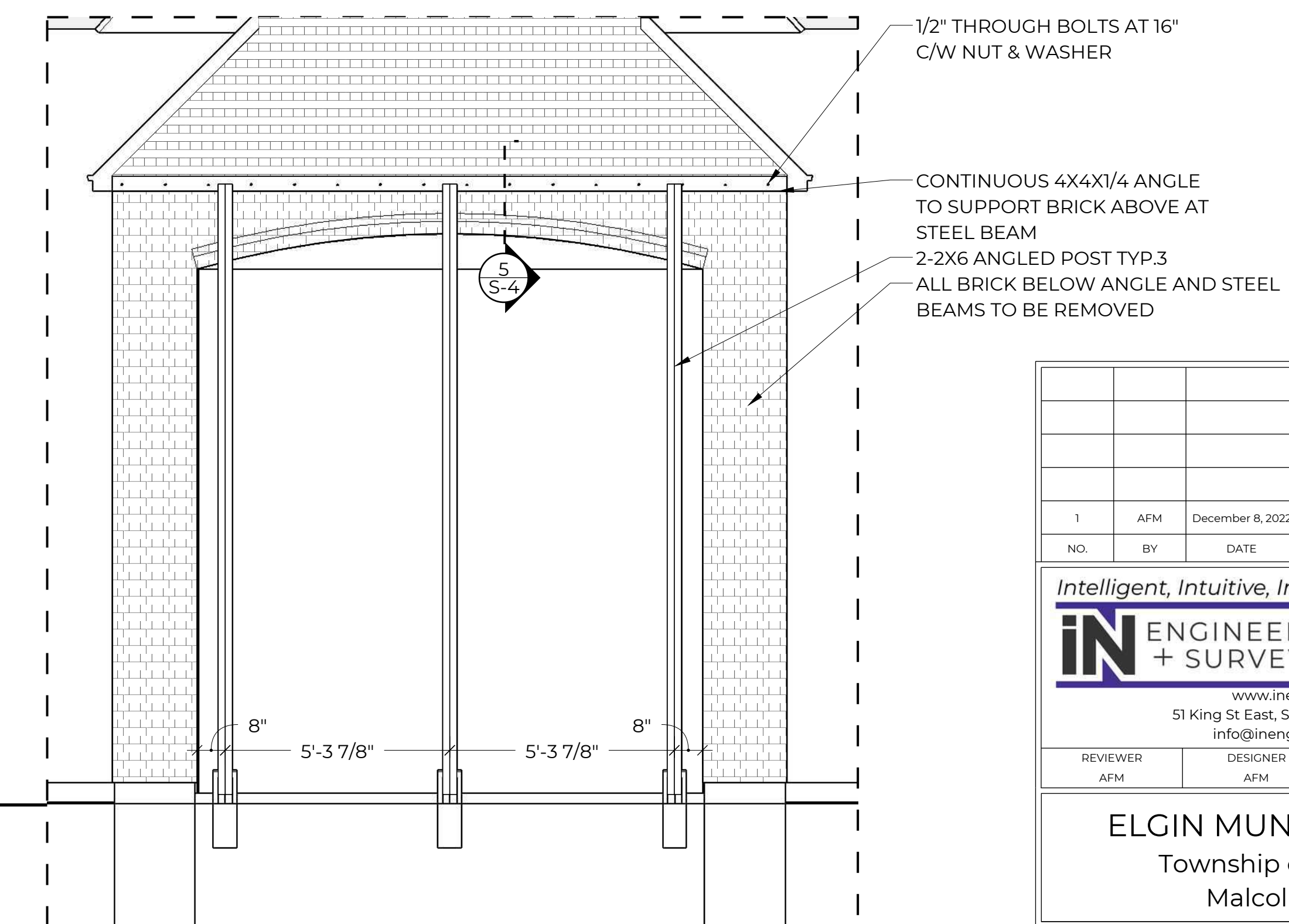
ISO DETAIL
NOT TO SCALE ⑦ S-4



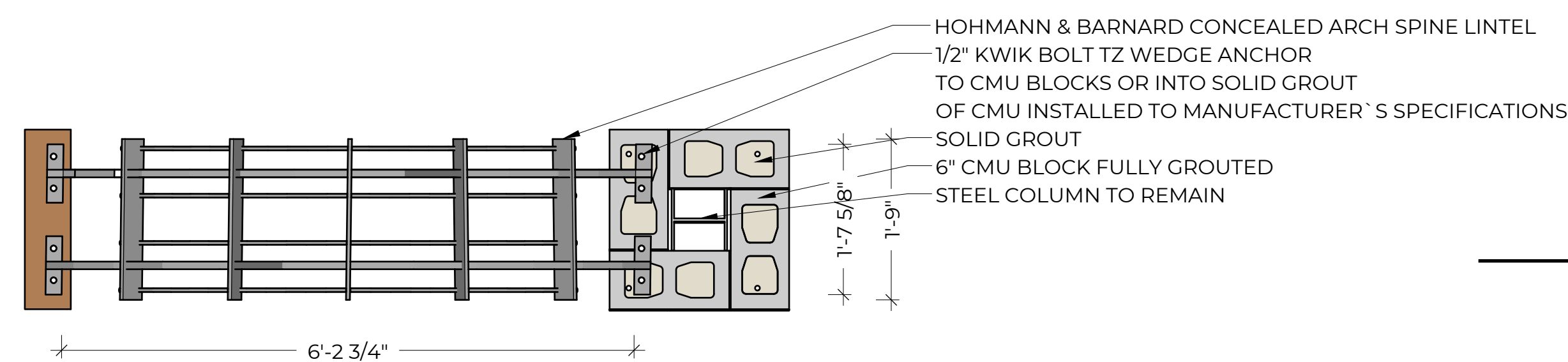
EAST & WEST ARCH ELEVATION DETAIL
3/4" = 1'-0" (1:16) ③ S-4



WEST ARCH (SHORING)
1/4" = 1'-0" (1:48) ⑧ S-4



SOUTH ARCH (SHORING)
3/8" = 1'-0" (1:32) ⑨ S-4



EAST & WEST ARCH PLAN DETAIL
3/4" = 1'-0" (1:16) ④ S-4

UNSTAMPED
NOT FOR PERMIT
NOT FOR CONSTRUCTION

THIS DOCUMENT WAS DIGITALLY SEALED.
CONTACT US TO VERIFY AUTHENTICITY.
THIS DRAWING CANNOT BE RELIED UPON UNLESS
SEALED AND SIGNED.

NO.	BY	DATE	REVISIONS
1	AFM	December 8, 2022	ISSUED FOR REVIEW

Intelligent, Intuitive, Inspired
IN ENGINEERING + SURVEYING
 Surveying
 Planning
 Building Design
 Engineering
 www.inengineering.ca
 51 King St East, Suite 205, Brockville, ON
 info@ineng.ca | 613-342-2611

REVIEWER AFM	DESIGNER AFM	DRAFTER YK	FILE NO. 10538
-----------------	-----------------	---------------	-------------------

ELGIN MUNICIPAL CENTRE
 Township of Rideau Lakes
 Malcolm Norwood

STRUCTURAL
 ARCH DETAILS
S-4