

**Addendum No. 1 to IFB 15-108**



**CITY OF SOMERVILLE, MASSACHUSETTS**  
**Department of Purchasing**  
**JOSEPH A. CURTATONE**  
**MAYOR**

To: All Parties on Record with the City of Somerville as Holding IFB 15-108 (Re-bid of IFB 15-105), Prospect Hill Tower Stabilization

From: Angela M. Allen, Purchasing Director

Date: July 9, 2015

Re: Drawings

**Addendum No. 1 to IFB 15-108**

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Item 1: Structural Documents included in Construction Documents:

Attached are Structural Drawings that are included in the Construction Documents Set:

- Structural Drawing Sheet S-1.0 Dated: April 3, 2015
- Structural Drawing Sheet S-2.0 Dated: April 3, 2015

The item(s) set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the proposal submitted.

**Please acknowledge receipt of this Addendum by signing below and including this form in your proposal package. Failure to do so may subject the proposer to disqualification.**

**X**

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Name of Authorized Signatory

Title of Authorized Signatory

## GENERAL

1. Structural work shall conform to the requirements of the Commonwealth of Massachusetts State Building Code, 8th Edition, 2009 International Building Code w/Massachusetts Amendments, 2009 International Existing Building Code w/Massachusetts Amendments.
2. Examine architectural, mechanical, plumbing and electrical drawings for verification of location and dimensions of chases, inserts, openings, sleeves, washes, drips, reveals depressions and other project requirements not shown on structural drawings.
3. Contractor shall verify and coordinate all dimensions on the project.
4. Openings in slabs or walls less than 12 inches in diameter are generally not shown. Openings shown on structural drawings shall not be revised without written approval from the engineer.
5. Openings in slabs, walls and roof deck in addition to those shown on the structural drawings shall be incorporated into the work as required by the architectural contract documents.
6. Details not specifically shown shall be similar to those shown for the most nearly similar situation as determined by the engineer.
7. unless noted elsewhere in the contract documents, requirements noted below shall apply.

## CONCRETE

1. Concrete work shall conform to ACI 318-08 "Building Code Requirements for Structural Concrete and ACI 301-08 "Specifications for Structural Concrete for Buildings.
2. Concrete shall be controlled concrete, proportioned, mixed and placed under the supervision of an approved testing agency.
3. Concrete shall have the following minimum compressive strength at 28 days:  
 (A) all concrete ..... 4000 psi
4. Concrete shall have the following nominal dry density:  
 (a) normal weight..... 145 pcf
5. Concrete to be exposed to weather in the finished project shall be air-entrained.
6. The use of construction joints where shown on the drawings is mandatory. Omissions, additions or changes shall not be made except with the submission of a written request together with drawings of the proposed joint locations for approval by the architect.
7. Where construction joints are not shown, drawings showing location of construction joints and concrete placing sequence shall be submitted to the engineer for approval prior to preparation of the reinforcement shop drawings.
8. Concrete slabs, including slabs on steel deck, shall be cast so that the slab thickness is at no point less than that indicated on the drawings.
9. Concrete shall be placed without horizontal construction joints except where shown or noted.

## REINFORCEMENT

1. Detailing, fabrication and erection of reinforcement shall conform to ACI 318-08 "Building Code Requirements for Structural Concrete" and ACI 315-05 "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
2. Steel reinforcement shall conform to ASTM A775 Grade 60 (yield stress = 60,000 psi), epoxy coated, with less than 2% damaged coating in each 12-inch bar length
3. Provide and schedule on shop drawings all necessary accessories to hold reinforcement securely in position. minimum requirements shall be: high chairs, 3'-0" on center; #5 support bar on high chairs; slab bolsters, 3'-0" on center.
4. Minimum concrete cover for reinforcement unless otherwise noted shall be as follows:
  - a. Formed surfaces exposed to weather. 2"

## STRUCTURAL STEEL

1. Structural steel work shall conform to 2010 AISC "Specification for Structural Steel Buildings", 2010 AISC "Code of Standard Practice for Steel Buildings and Bridges" and 2010 AWS D1.1 "Structural Welding Code - Steel".
2. Structural steel shall be detailed in accordance with the AISC "Detailing for Steel Construction" (AISC-2009) and designed in accordance with references noted above.
3. Structural steel shall be new steel conforming to the following:

(a) Unless otherwise noted	ASTM A992	Grade 50 (Fy = 50 KSI)
(b) Angles, channels, Tee, etc.	ASTM A36	Grade 36 (Fy = 36 KSI)
(c) Tubes	ASTM A500	Grade B (Fy = 46 KSI)
(e) Anchor Bolts	ASTM F1554	Grade 36
4. Welded connections shall be made by approved certified welders using filler metal conforming to E70XX or F7X-EXXX with low hydrogen.
5. Welds shall develop full strength of the materials being welded unless otherwise noted.
6. Welding shall conform to the American Welding Society code (AWS). All fillet welds shall be made with a return leg on the weld end. The minimum size of fillet welds shall be determined in accordance with the AISC specifications for structural steel buildings. Provide backing bars and or spacers as required for satisfactory welding.
7. Anchor bolts, leveling plates, or bearing plates shall be located and built into connecting work, preset by templates or similar methods. plates shall be set in full beds of non-shrink grout. wet setting shall not be allowed.
8. All steel exposed to weather shall be hot dipped galvanized.
9. Structural steel details not specifically shown shall be similar to those shown for most nearly similar situations as determined by the engineer.
10. Field cutting of structural steel or any field modifications to structural steel shall not be made without approval by the engineer for each specific case.
11. Structural steel framing shall be true and plumb before connections are finally bolted or welded.
12. Temporary erection bracing and supports shall be provided to hold structural steel framing securely in position. such temporary bracing and supports shall not be removed until permanent bracing has been installed and floor slabs have attained 75 percent of specified concrete strength.

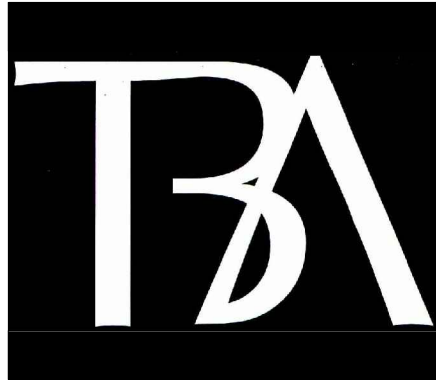
## DESIGN LOADS

Loads shall conform to the requirements of the Massachusetts State Building Code, 8th Edition W/Amendments to IBC 2009

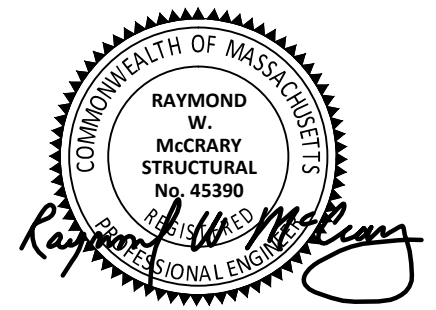
- |    |   |     |     |
|----|---|-----|-----|
| 1. | Floor live loads                                    |     |     |
|    | Floors  | 100 | psf |
| 2. | Roof live loads                                     |     |     |
|    | Observation Deck                                    | 100 | psf |
| 3. | Wind loads  |     |     |
|    | Basic wind speed (three-second gust): $v = 110$ mph |     |     |
|    | Importance factor: $(I_w) = 1.0$                    |     |     |
|    | Occupancy category: III                             |     |     |
|    | Wind exposure category: b                           |     |     |

## ABBREVIATIONS

ABBREVIATION	WORD	K	KIP (1000 POUNDS)
ASD	ALLOWABLE STRESS DESIGN	LE	LEFT END
ALTN	ALTERNATE	LW	LIGHTWEIGHT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	LWC	LIGHTWEIGHT CONC
ACI	AMERICAN CONCRETE INSTITUTE	LRFD	LOAD & RESISTANCE FACTOR DESIGN
AIA	AMERICAN INSTITUTE OF ARCHITECTS	LOC	LOCATION
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LLV	LONG LEG VERTICAL
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	LP	LOW POINT
ARCH	ARCHITECTURAL	LL	LOWER LAYER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MFR	MANUFACTURER
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	MAS	MASONRY
AWS	AMERICAN WELDING SOCIETY	MATL	MATERIAL
AB	ANCHOR BOLT	MECH	MECHANICAL
@	AT RATE OF	MEP	MECHANICAL, ELECTRICAL, PLUMBING
		MEZ2	MEZZANINE
		MID	MIDDLE
		MID-PT	MIDPOINT
BAL	BALANCE	NFOPA	NATIONAL FOREST PRODUCTS ASSOCIATION
BM	BEAM	NF	NEAR FACE
BRG	BEARING	NWC	NORMALWEIGHT CONCRETE
BLK	BLOCK	NIC	NOT IN CONTRACT
B OR BOT	BOTTOM	NTS	NOT TO SCALE
BEW	BOTTOM EACH WAY	NO OR #	NUMBER
BRKT	BRACKET		
BLDG	BUILDING		
		OSHA	OCCUPATIONAL SAFETY & HEALTH
CIP	CAST-IN-PLACE		ADMINISTRATION
CG	CENTER OF GRAVITY	OC	ON CENTER
CTRD	CENTERED	OPNG	OPENING
CO	CLEAN OUT	OH	OPPOSITE HAND
C	CENTERLINE	OD	OUTSIDE DIAMETER
CLR	CLEAR		
COL	COLUMN	PC	PILE CAP
CONC	CONCRETE	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PT	POINT
CRSI	CONCRETE REINFORCING STEEL INST.	PVC	POLYVINYLYL CHLORIDE
CONN	CONNECTION	PCA	PORTLAND CEMENT ASSOCIATION
CONST	CONSTRUCTION	P/T	POST TENSIONED
CONST JT OR C	CONSTRUCTION JOINT	PSF	POUNDS PER SQUARE FOOT
CONT	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CJ	CONTROL JOINTS	P/C	PRECAST CONCRETE
		PCI	PRECAST CONCRETE INSTITUTE
DEPR	DEPRESSION	PTW	PRESSURE TREATED WOOD
DET	DETAIL	P/S	PRESSED
DL	DEVELOPMENT LENGTH		
DIA OR Ø	DIAMETER	R	RADIUS
DIM	DIMENSION	REF	REFERENCE
DIR	DIRECTION	REINF	REINFORCE or REINFORCEMENT/ING
DO	DITTO	REM	REMAINDER
DWLS	DOWELS	RETG	RETAINING
DN	DOWN	RET	RETURN
DWG	DRAWING	RE	RIGHT END
		RD	ROOF DRAIN
EA	EACH		
EE	EACH END	SECT	SECTION
EF	EACH FACE	SC	SHEAR CONNECTOR
ES	EACH SIDE	SHT	SHEET
EW	EACH WAY	SLV	SHORT LEG VERTICAL
EL	ELEVATION	SIM	SIMILAR
ELEV	ELEVATOR	SOG	SLAB ON GRADE
EC	EPOXY COATED	SPA	SPACES
EQ	EQUAL	SPECS	SPECIFICATIONS
EXP BOLT	EXPANSION BOLT	SL	SPLICE LENGTH
EXP JT	EXPANSION JOINT	SQ	SQUARE
EXT	EXTERIOR	SS	STAINLESS STEEL
		STD	STANDARD
FF	FAR FACE	STL	STEEL
FT	FEET OR FOOT	SDI	STEEL DECK INSTITUTE
FIN	FINISH	SJI	STEEL JOIST INSTITUTE
FIN FL	FINISHED FLOOR	SF	STEP FOOTING
FRF	FIREPROOF	STIFF	STIFFENER
FL	FLOOR	STR	STRUCTURAL
FD	FLOOR DRAIN	SP	SUMP PIT
FTG	FOOTING	SUP	SUPPORT
FND	FOUNDATION	SYM	SYMMETRICAL
GALV	GALVANIZED	TEMP	TEMPERATURE
GA	GAGE OR GAUGE	THK	THICK OR THICKNESS
GR	GRADE	THRD	THREADED
GB	GRADE BEAM	TB	TIE BEAM
		TIM	TIMBER
HT	HEIGHT	T	TOP
HP	HIGH POINT	T&B	TOP & BOTTOM
H	HIGH STRENGTH	TOC	TOP OF CONCRETE
H OR HORIZ	HORIZONTAL	TOS	TOP OF STEEL
HEF	HORIZONTAL EACH FACE	TOW	TOP OF WALL
HIF	HORIZONTAL INSIDE FACE	TYP	TYPICAL
HOF	HORIZONTAL OUTSIDE FACE		
		UNO	UNLESS NOTED OTHERWISE
IN	INCH	UL	UPPER LAYER
INCL	INCLUSIVE OR INCLUDING	U.L.	UNDERWRITERS LABORATORIES
INFO	INFO		
ID	INSIDE DIAMETER	Y OR VERT	VERTICAL
INSUL	INSULATION	VEF	VERTICAL EACH FACE
IBC	INTERNATIONAL BUILDING CODE	VIF	VERTICAL INSIDE FACE
INV	INVERT	VOF	VERTICAL OUTSIDE FACE
JT	JOINT	WPG	WATERPROOFING
		WWF	WELDED WIRE FABRIC
		WWPA	WESTERN WOOD PRODUCTS ASSOCIATION
		W	WITH
		WP	WORKING POINT
		WS	WATERSTOP



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# PROSPECT HILL TOWER STABILIZATION

MUNROE STREET  
SOMERVILLE, MA

CLEINT: CITY OF SOMERVILLE  
JOSEPH CURTATONE, MAYOR  
CLIENT:

[illegible]

## REVISIONS

DATE OF ISSUE  
APRIL 3, 2015

SCALE

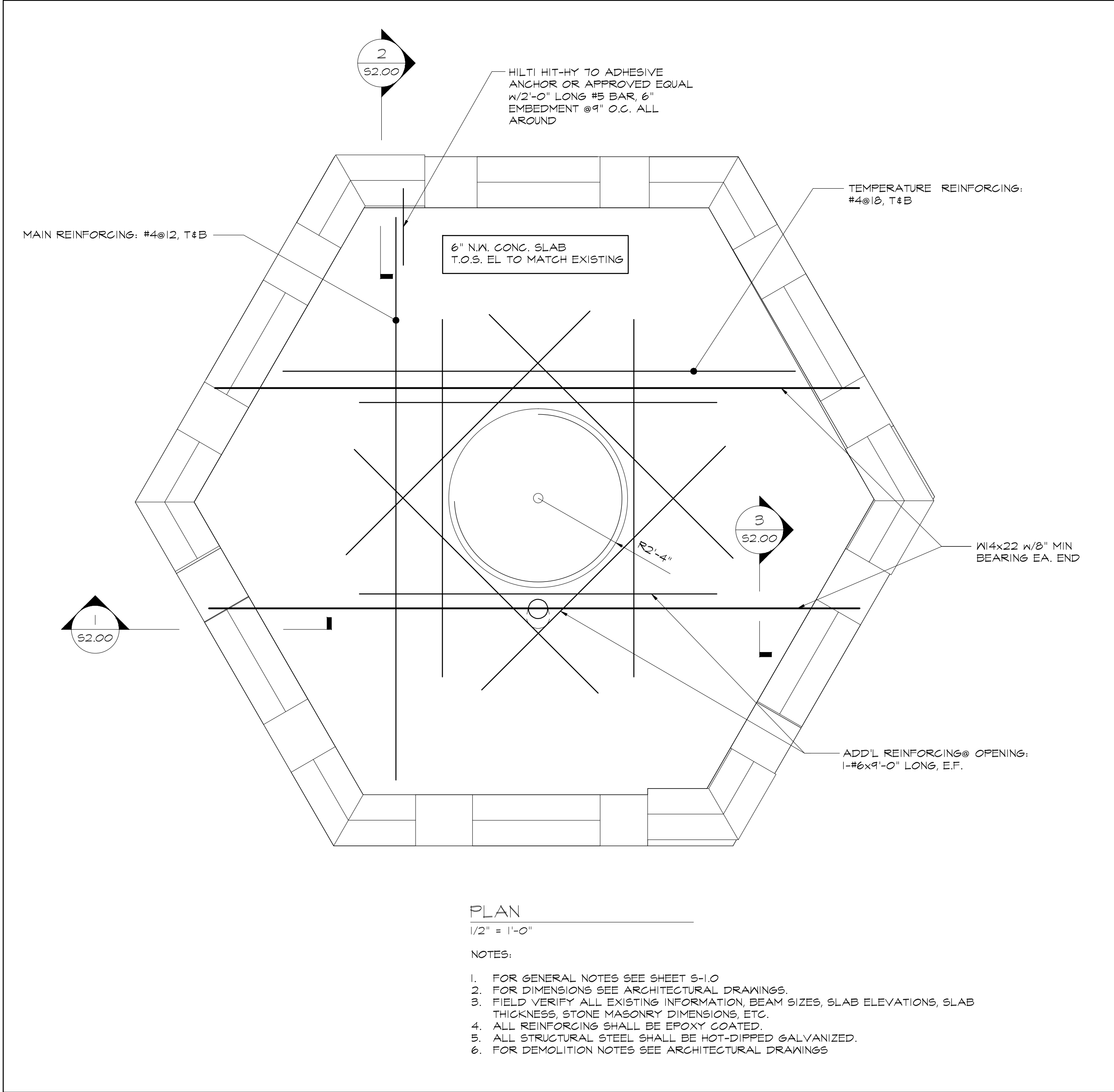
NONE

## GENERAL NOTES & ABBREVIATIONS

TBA PROJECT # 1210.1

S-1.0



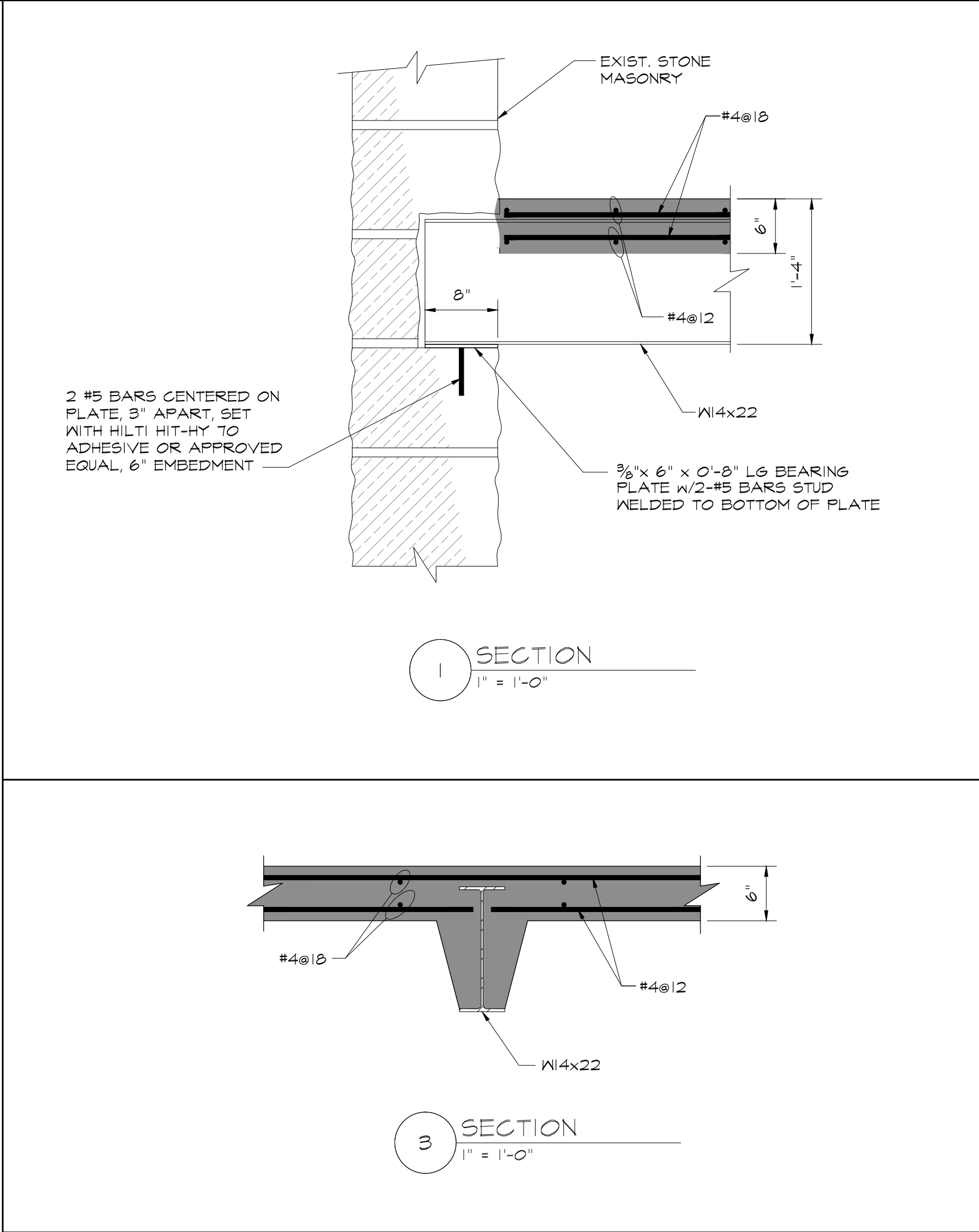


PLAN

1/2" = 1'-0"

NOTES:

1. FOR GENERAL NOTES SEE SHEET S-1.0
2. FOR DIMENSIONS SEE ARCHITECTURAL DRAWINGS.
3. FIELD VERIFY ALL EXISTING INFORMATION, BEAM SIZES, SLAB ELEVATIONS, SLAB THICKNESS, STONE MASONRY DIMENSIONS, ETC.
4. ALL REINFORCING SHALL BE EPOXY COATED.
5. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED.
6. FOR DEMOLITION NOTES SEE ARCHITECTURAL DRAWINGS

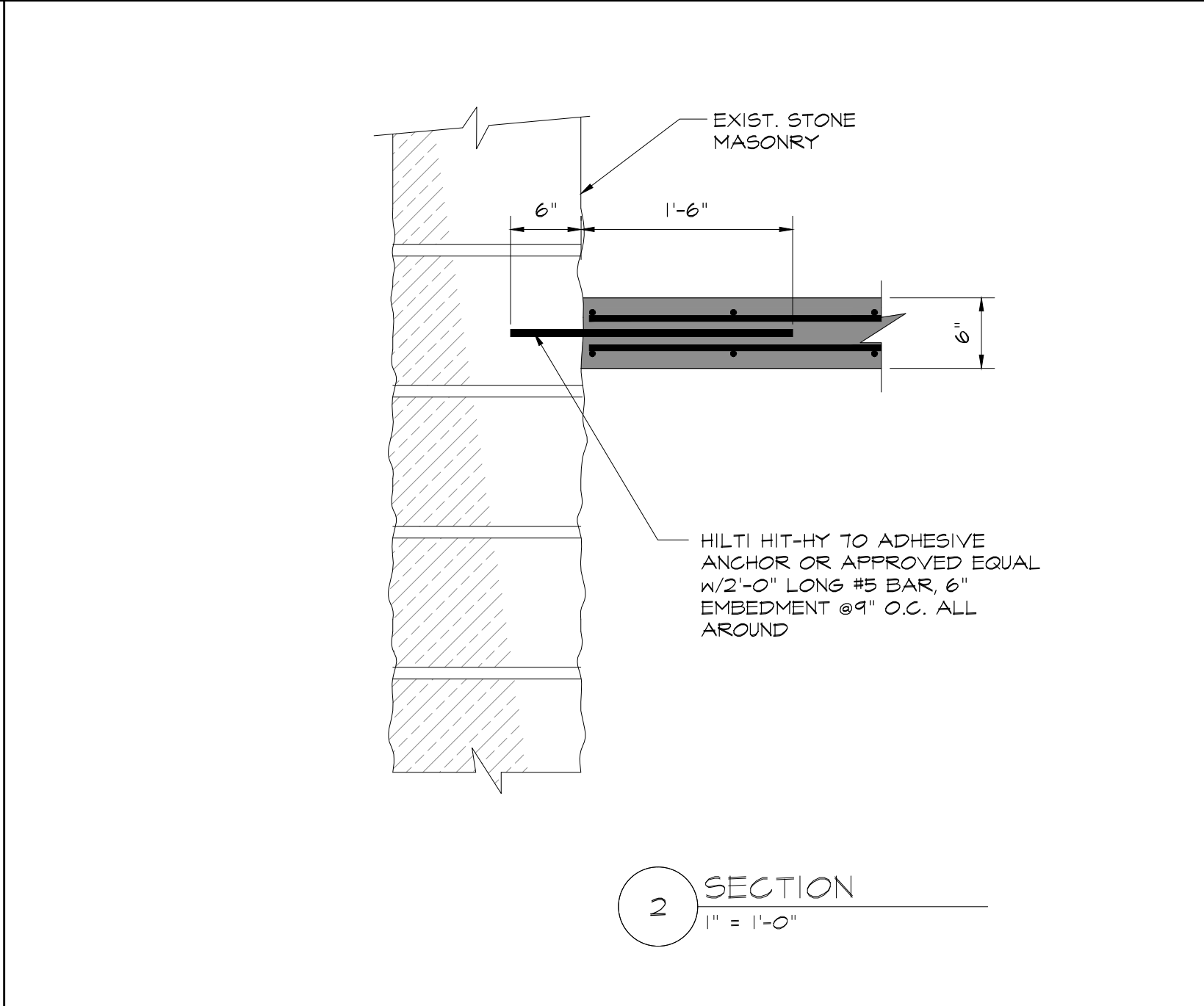


SECTION

1" = 1'-0"

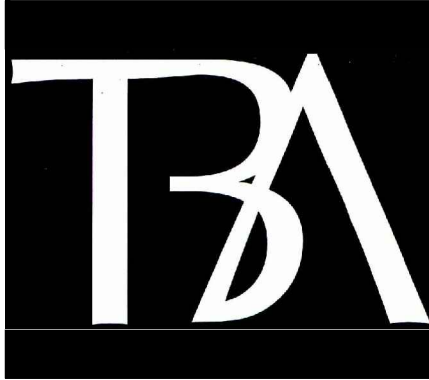
SECTION

1" = 1'-0"



SECTION

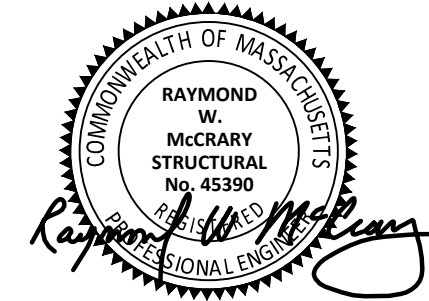
1" = 1'-0"



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## PROSPECT HILL TOWER STABILIZATION

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SOMERVILLE, MA

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JOSEPH CURTATONE, MAYOR  
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### REVISIONS

DATE OF ISSUE  
APRIL 3, 2015

SCALE  
AS NOTED

## LEVEL FOUR PLAN AND SECTIONS

TBA PROJECT # 1210.1

S-2.0