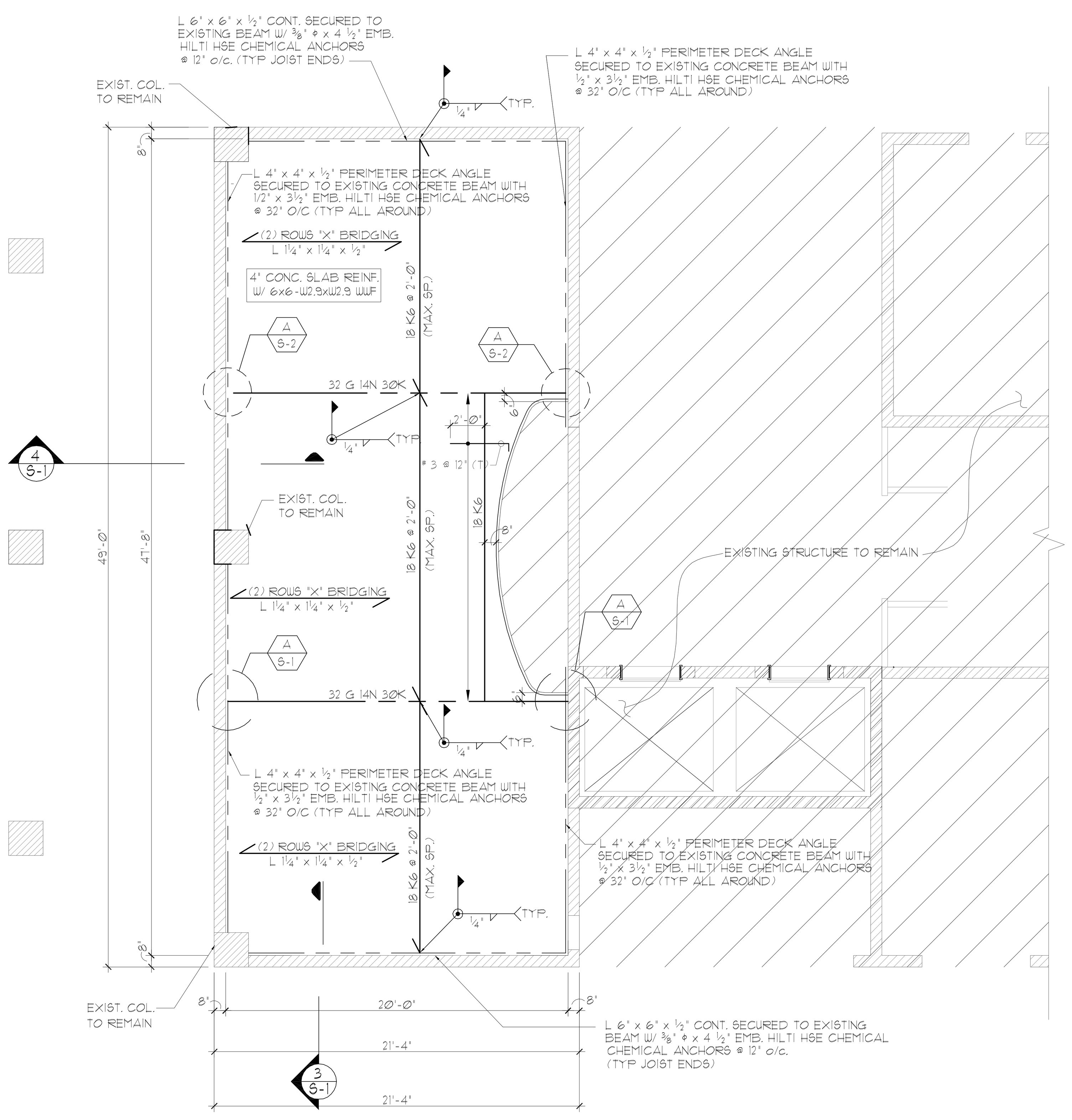
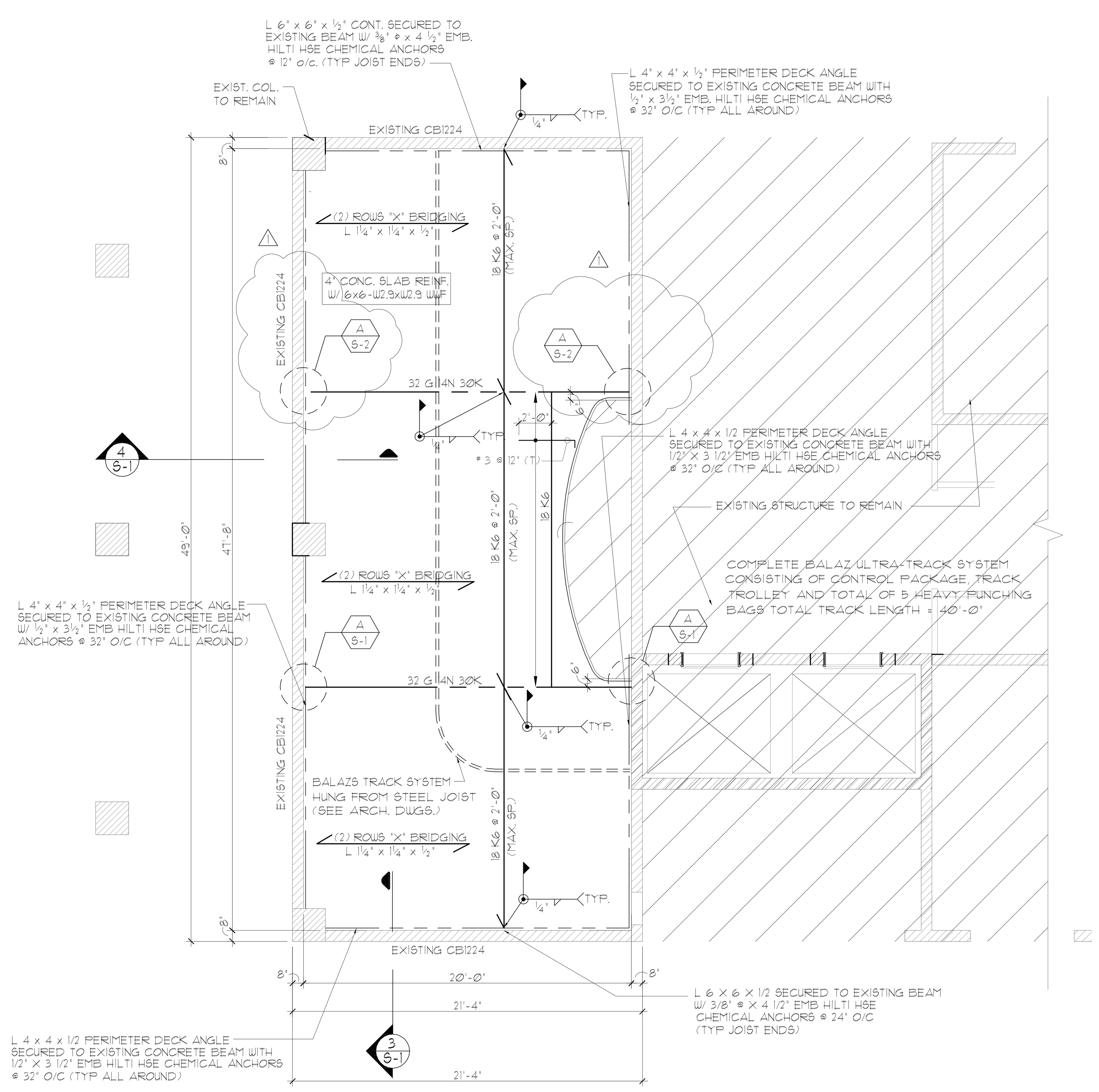
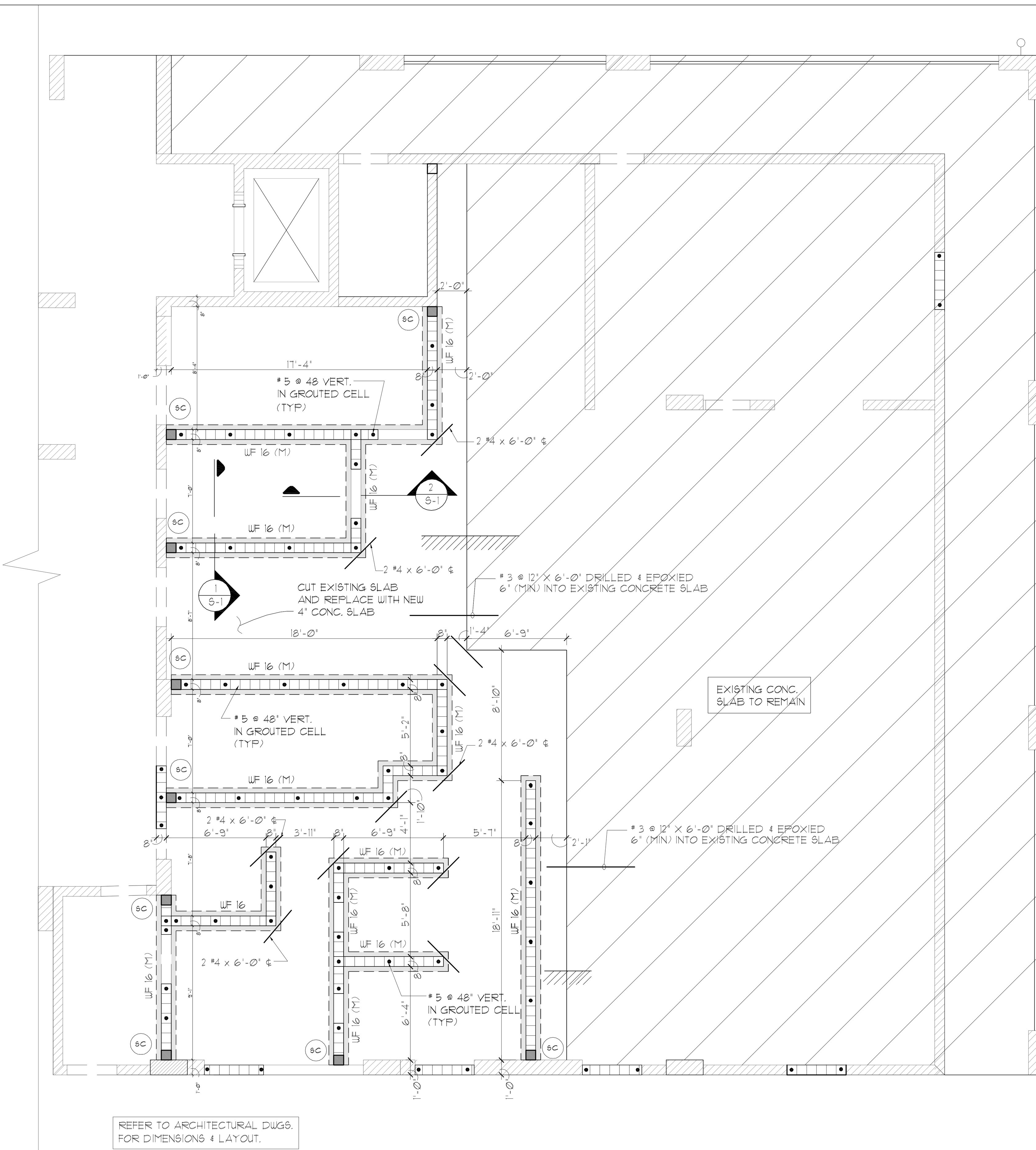


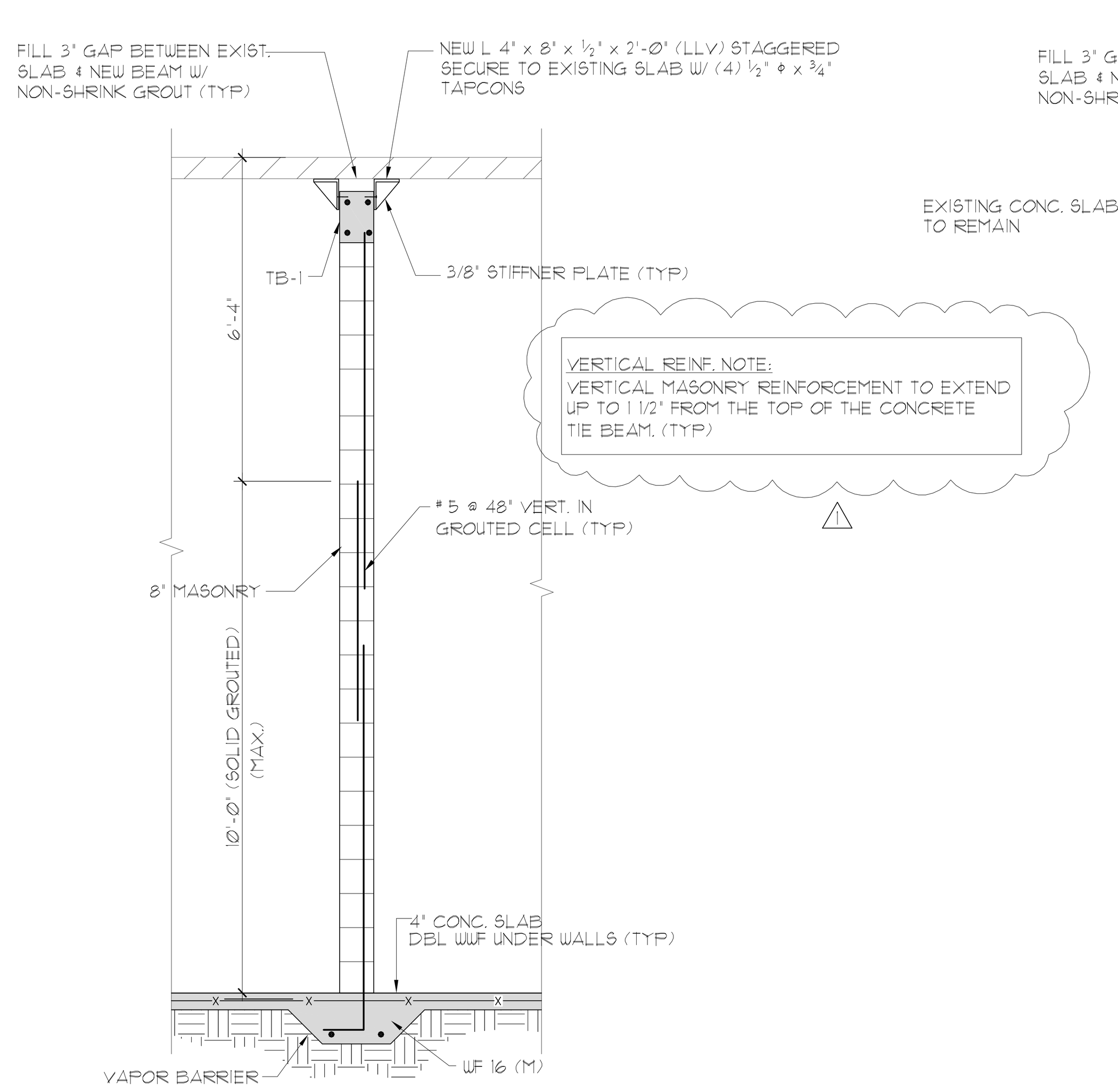
SECOND FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
NORTH



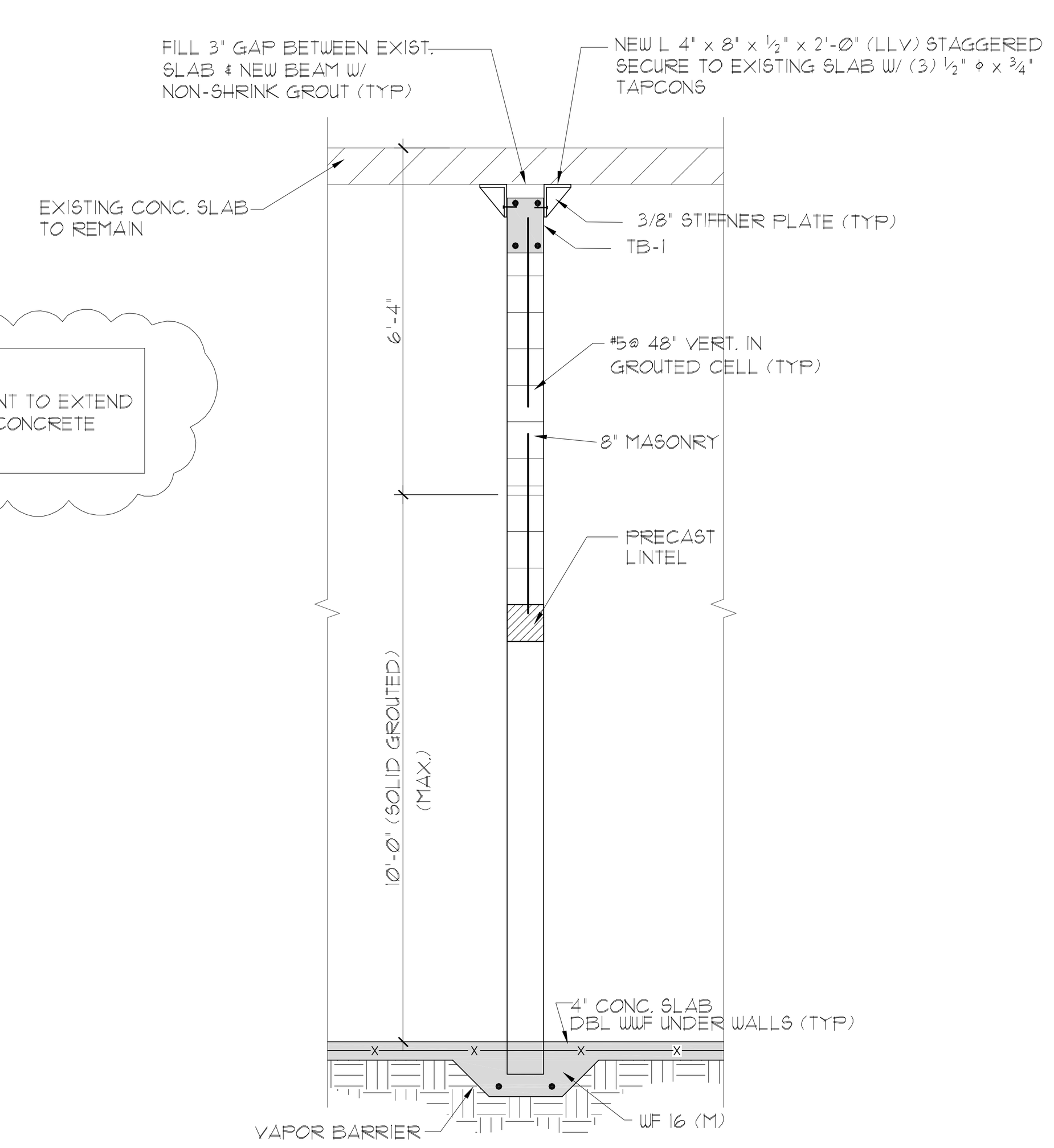
THIRD FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
NORTH



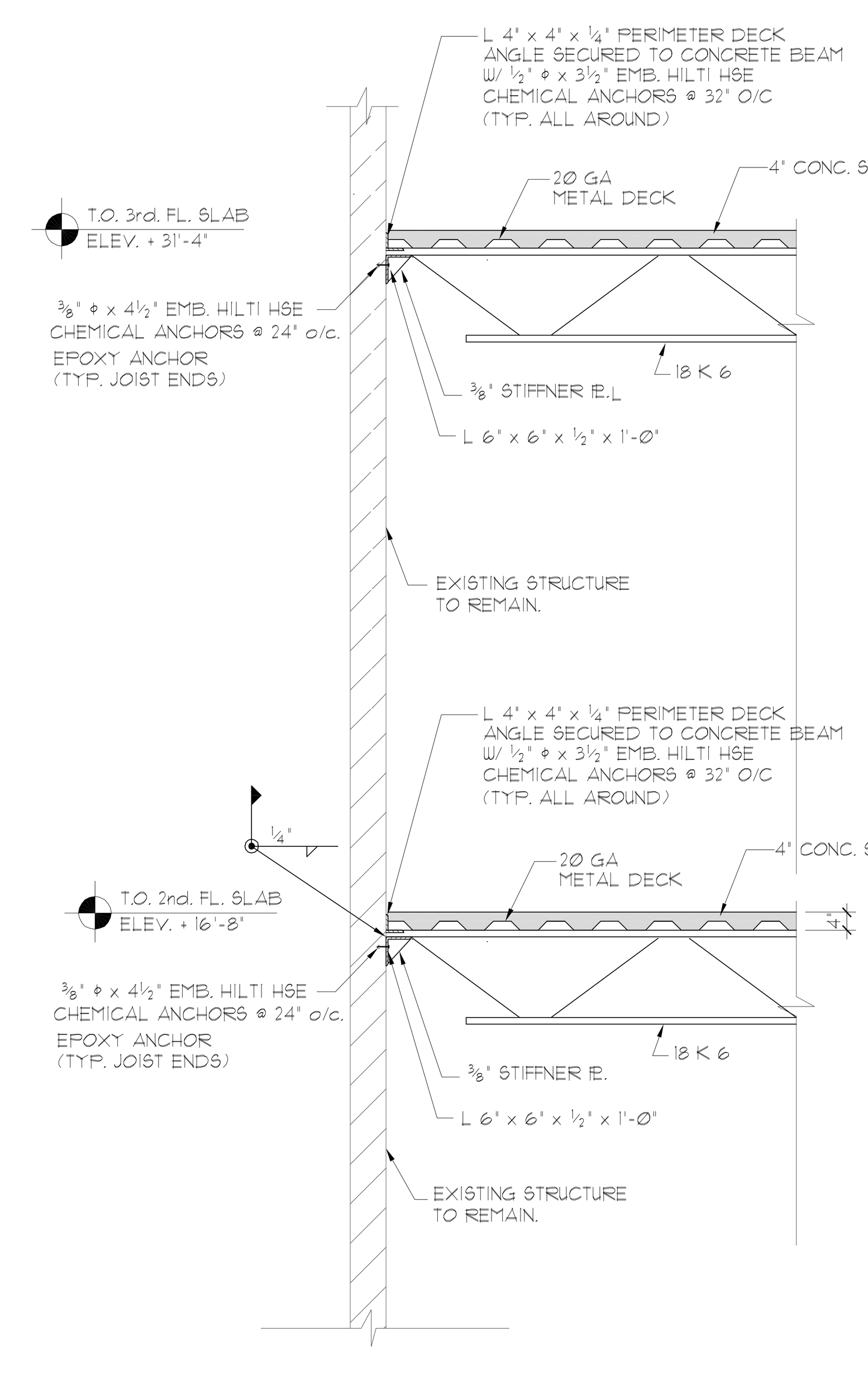
GROUND FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"
NORTH



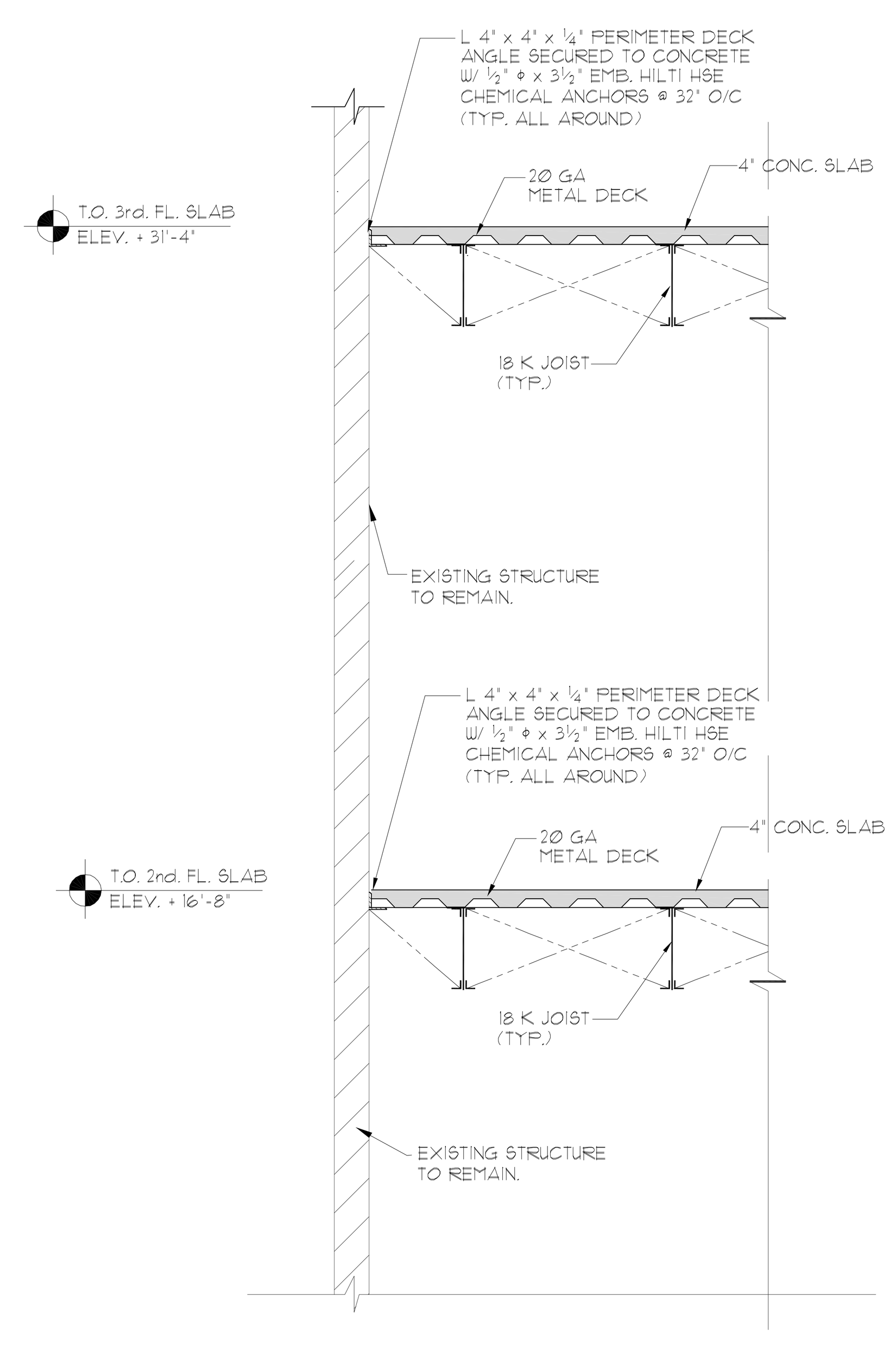
SECTION 1 / S-1
SCALE: 3/8" = 1'-0"



SECTION 2 / S-1
SCALE: 3/8" = 1'-0"



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



SECTION 4 / S-1
SCALE: 3/8" = 1'-0"

CAUTION: DO NOT SCALE DRAWINGS. DIMENSIONS NOTED ON PLAN CONTROL OVER SCALE AND MUST BE CORDINATED WITH ARCHITECTURAL DWGS.

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c & a engineers, inc.

Architecture
Planning&
Urban Design
Space Planning
Interior Design
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INTERIOR ALTERATIONS FOR:

The Town of Medley - Florida

Municipal Services Facility
Owner: The Town of Medley
7777 NW 72nd Avenue
Medley, FL 33166 Phone: (305) 887-9541

REVISIONS	BY
△ BLDG. DEPT. 05-20-14	P.I.C.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED & SEAL IN THIS BOX & ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS.

Date
Scale
Drawn
Job
Sheet
S-1
Of Sheets

STRUCTURAL NOTES

1- ELEVATION

FINISH FLOOR ELEVATION (SEE PLAN).

2- CONCRETE :

A- COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS :
- SLABS ON FILL: —— 3000 PSI
- GROUT: —— 3000 PSI
- MASONRY CELL: —— 3000 PSI

B- TEST: A MINIMUM OF 7 CONCRETE SPECIMENS SHALL BE TAKEN FROM EACH 50 CU. YD. OR PORTION THEREOF. SPECIMENS SHALL BE TESTED ACCORDING TO ASTM C-39, TWO AT 3 DAYS, ONE AT 7, AND THREE AT 28 AND ONE HELD IN RESERVE.

C- GROUT TO BE TESTED AT LEAST ONCE PER DAY OR EVERY 50 CU. YDS.

D- COVER :CONCRETE DEPOSITED AGAINST THE GROUND —— 3"
- FORMED CONCRETE IN CONTACT WITH THE GROUND —— 2"
- BEAMS & COLUMN —— 1-1/2"
- SLABS: EXTERIOR —— 1-1/2"

3- SLAB ON FILL : PLACED ACCORDING TO ACI 302

A- JOINTS :

A-1: ISOLATION JOINTS MUST BE USED AT JUNCTIONS WITH WALLS AND COLUMNS, USE 1/2" THICK PREMOLDED JOINTS FULL DEPTH OF SLAB.

A-2: CONTROL JOINTS SPACED AT CENTERLINE OF COLUMN LINES. PROVIDE INTERMEDIATE JOINTS IF COLUMN SPACING IS GREATER THAN 30 FT. IN SIDEWALKS PROVIDE TOOLED JOINTS SPACED AT INTERVALS EQUAL TO THE WIDTH OF THE SLAB.

4" SLABS 1" DEEP TOOLED

JOINTS MUST BE SAWED BEFORE 24 HRS. AFTER CONCRETING.

A-3: CONSTRUCTION JOINTS MUST BE PLACED IN THE SLAB WHERE BUILDING EXPANSION JOINTS ARE SHOWN AND WHERE CONTROL JOINTS ARE SHOWN. WHEN CONCRETING OPERATIONS ARE CONCLUDED FOR THE DAY, CONSTRUCTION JOINTS SHALL BE FORMED WITH BURKE KEYED KOLD METAL JOINT FORM OR APPROVED EQUAL.

B- VAPOR BARRIERS :

WATERPROOF MEMBRANES (OVERLAPPED 6" AT JOINTS) WITH A PERMEANCE OF LESS THAN 0.3 PERMS IN ACCORDANCE WITH ASTM E-96 SHALL BE PROVIDED UNDER INTERIOR SLABS.

C- WHERE NO VAPOR BARRIER IS USED THE SUBGRADE MUST BE DAMPENED WITH WATER IN ADVANCE OF CONCRETING. NO FREE WATER STANDING ON THE SUBGRADE NOR ANY MUDDY OR SOFT SPOT IS PERMITTED.

D- ANY STRUCTURAL MEMBER PENETRATING SLABS ON FILL IS TO BE ISOLATED WITH 1/2" THICK PRE-MOLDED JOINT FILLER COMPLYING WITH ASTM D-1752 TYPE I.

E- FINISHING :

NO PREMATURE FINISHING SHALL BE ALLOWED. IMMEDIATELY FOLLOWING FLOATING, TROWELING WITH STEEL TROWELS SHOULD BE COMMENCED IF REQUIRED. BROOMING SHALL BE DONE AFTER THE STEEL TROWELING OPERATION.

SLAB FINISHES (UNLESS OTHERWISE NOTED BY ARCHITECT) :
- BUILDING —— STEEL TROWELED
- OUTSIDE SLABS —— BROOMED

4- REINFORCING STEEL :

A- REINFORCING BARS CONFORMING TO ASTM A-615 GRADE 60, INCLUDING COL. & BEAM TIES.

B- WELDED WIRE FABRIC CONFORMING TO ASTM A-185 AND SUPPORTED ON SLAB BOLSTERS SPACED @ 3'-0" O/C.

C- FABRICATION AND DETAILING ACCORDING TO ACI-315.

D- ALL ACCESSORIES TO HAVE UPTURNED LEGS AND BE PLASTIC DIPPED AFTER FABRICATION.

E- IN CORROSIVE ENVIROMMENTS EPOXY COAT OR GALVANIZE ALL TOP BARS IN EXPOSED BALCONIES & WALKWAYS.

5- MASONRY :

A- BEARING : MASONRY SHOWN IN PLAN SHALL BE ERECTED PRIOR TO THE STRUCTURE ABOVE BEING POURED.

C- MORTAR : CONFORMING TO ASTM C-270, TYPE "M" (2,500 PSI).

D- PROVIDE DOVETAIL ANCHORS AT ALL INTERSECTIONS OF NON-BEARING MASONRY WITH STRUCTURAL CONCRETE COLUMNS AND WALLS.

6- SOIL COMPACTION :

FILL AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95 % OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557)

7- COORDINATION :

COORDINATE ALL DIMENSIONS, ELEVATIONS & OPENINGS WITH ARCHITECTURAL, ELECTRICAL & MECHANICAL DRAWINGS. REPORT ANY DISCREPANCIES TO OUR OFFICE.

8- OWNER, ARCHITECT AND CONTRACTOR NOTE :

CHECKING OF SHOP DRAWINGS AND INSPECTIONS OF REINFORCEMENT IN THE FIELD ARE REQUIRED IF IS OFFICE IS TO BE HELD RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF THE CONSTRUCTED BUILDING.

9- SHORING, RE-SHORING AND TEMPORARY BRACING :

ALL SHORING, RE-SHORING AND TEMPORARY BRACING REQUIRED IN THIS PROJECT IS TO BE DESIGNED BY A FLORIDA REGISTERED ENGINEER WHO SPECIALIZES IN FORM WORK/TEMPORARY BRACING DESIGN AND WHO HAS BEEN HIRED BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR IN THE ULTIMATE RESPONSIBLE PARTY FOR SHORING, RE-SHORING AND TEMPORARY BRACING REQUIRED ON THIS PROJECT AND MUST SATISFY HIMSELF OF THE ADEQUACY OF THE INSTALLATION OF THESE ITEMS AT ALL TIMES.

IN THE SPECIFIC CASE OF POURED SLABS, IT IS HIGHLY RECOMMENDED THAT THE GENERAL CONTRACTOR SECURE A CERTIFICATION OF THE INSTALLED SHORING FROM THE SHORING DESIGNER OR HIS AGENT PRIOR TO THE PLACEMENT OF CONCRETE.

10- SAFETY, OSHA AND LABOR LAWS :

THE STRUCTURAL ENGINEER OF RECORD DOES NOT POSSES, NOR PRESUMES TO POSSES ANY KNOWLEDGE OR EXPERIRTISE IN MATTERS RELATING TO JOB SITE EMPLOYEE SAFETY, OSHA OR LABOR LAW REQUIREMENTS FOR A CONSTRUCTION PROJECT.

SAFETY AND COMPLIANCE WITH OSHA AND LABOR LAWS IS THE ABSOLUTE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THOSE CONSULTANTS HE HIRES TO ADDRESS THESE MATTERS. THE STRUCTURAL ENGINEER OF RECORD SPECIALIZES IN STRUCTURAL DESIGN ONLY AND THE BOARD OF PROFESSIONAL REGULATION FORBIDS HIM FROM ASSUMING RESPONSIBILITY IN ANY AREA OUTSIDE OF HIS AREA OF EXPERTISE.

11- APPLICABLE CODES :

ALTHOUGH THE ENGINEER OF RECORD HAS STRIVED TO MEET ALL APPLICABLE CODE AND LOCAL ORDINANCE REQUIREMENTS, THE CONTRACTOR IS STILL RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES AND ORDNANCES IN THE EVENT OF CONFLICT OR OVERSIGHT IN THESE DRAWINGS. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICT OR DISCREPANCY ENCOUNTERED SO THAT APPROPIATE REMEDIES MAY BE UNDERTAKEN.

12- LIVE LOADS :

30 PSF ROOF AREAS 100 PSF FLOOR AREAS

13- WIND DESIGN:

THIS STRUCTURE HAS BEEN DESIGNED TO WITHSTAND THE PRESSURES GENERATED BY 146 MPH WINDS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE & ASCE 7-02

ASCE : 7-10
WIND SPEED: 175 MPH
EXPOSURE : C
USE FACTOR: 1
GCP. : 18 ±

14- CODES USED IN DESIGN:

2010 FLORIDA BUILDING CODE HVHZ, AS AMMENDED

ACI 318-08 : BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.

ACI 530/530. 1-08: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND RELATED COMMENTARIES.

ASCE 7-10 : MINIMUM DESIGN LOADS FOR BUILDINGS AND STRUCTURES.

15- CONTRACTOR COMPLIANCE:

IN ADDITION TO THE ABOVE CONTRACTOR MUST COMPLY AS A MINIMUM WITH THE FALLOWING STANDARDS FOR CONCRETE CONSTRUCTION.

ACI 301-05 : SPECIFICATIONS FOR STRUCTURAL CONCRETE

ACI 304R-00: GUIDE FOR MEASURING, MIXING,TRANSPORTING AND PLACING CONCRETE.

ACI 305-99 : HOT WATHER CONCRETING

ACI 308R-01: GUIDE TO CURING CONCRETE.

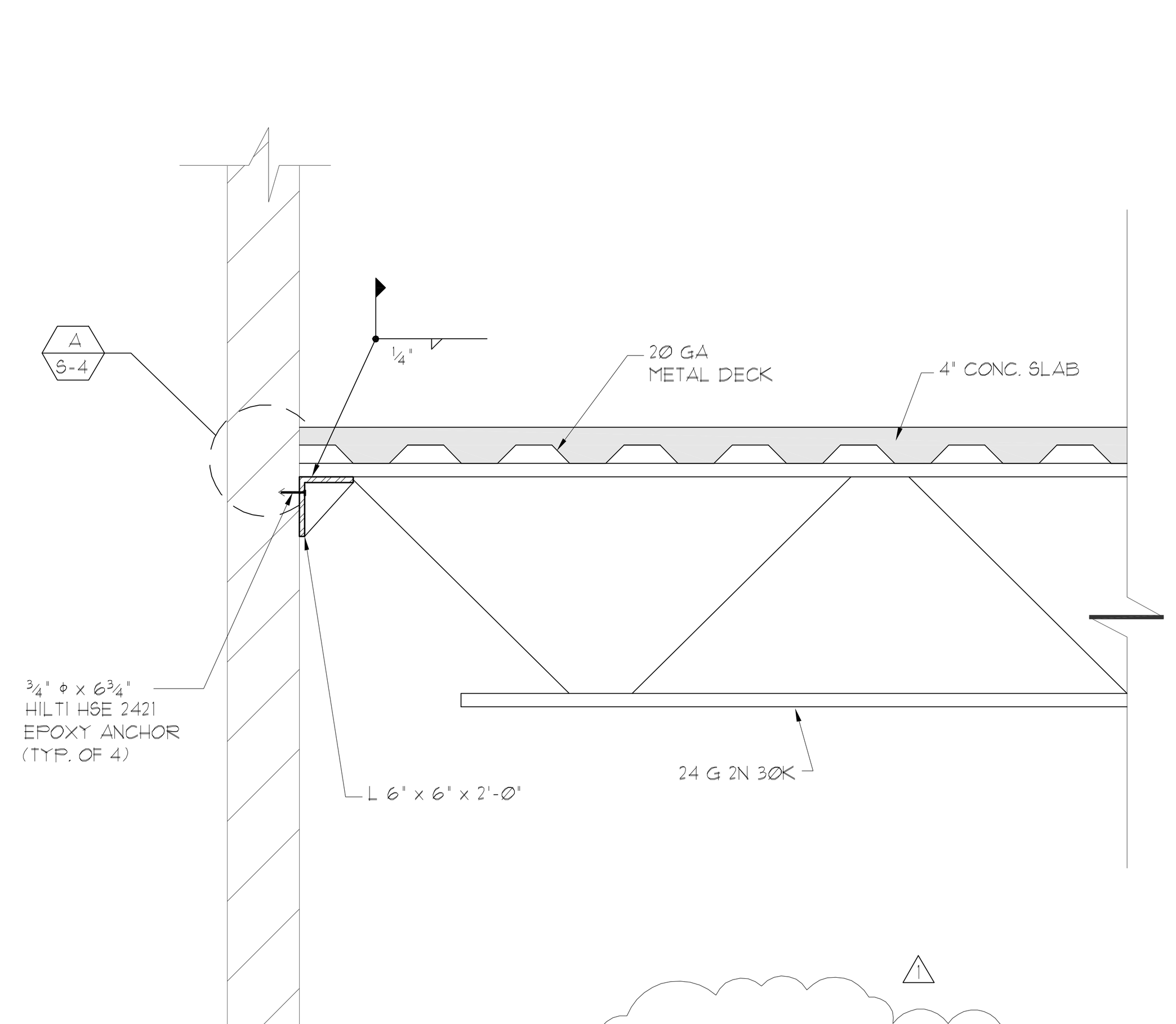
ACI 309R-05: GUIDE FOR CONSOLIDATING CONCRETE.

16- SOIL BEARING :

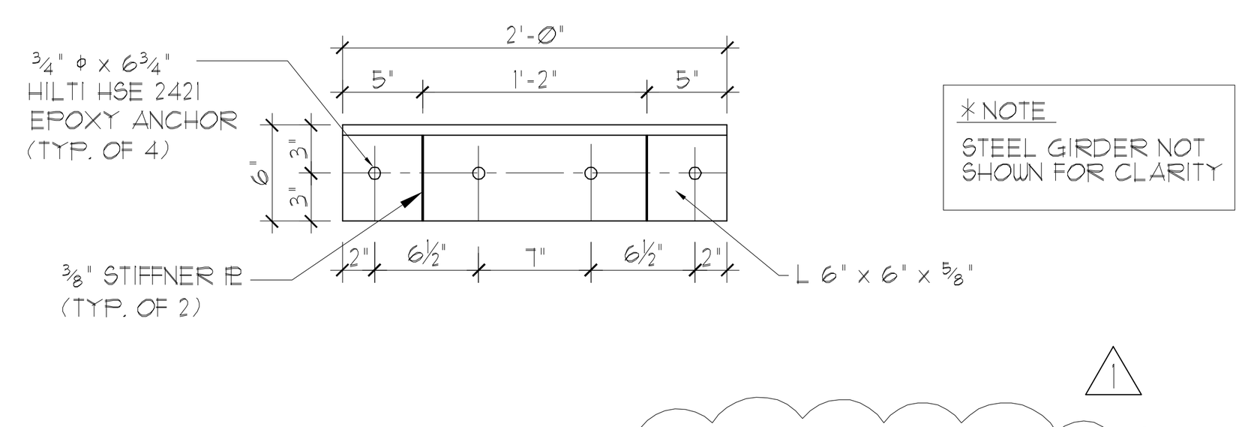
FOOTINGS HAVE BEEN DESIGNED FOR A BEARING CAPACITY OF 1500 PSF BOTTOM OF FOOTING TO BEAR ON SANDY LIMEROCK OR SAND.
VISUAL INSPECTION OF THE SITE INDICATES SOILS CAPABLE OF SAFELY SUPPORTING THE DESIGN SOIL PRESSURE USED IN THE DESIGN OF THE FOUNDATIONS.

MIAMI DADE COUNTY, FLORIDA JURISDICTION REQUIREMENT:

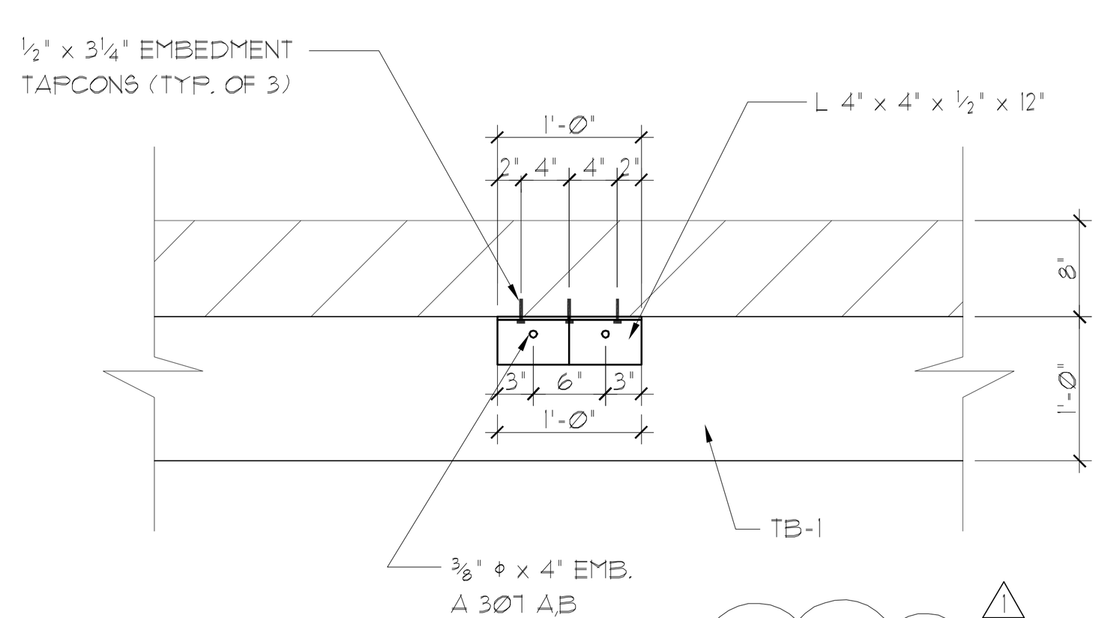
THE GEOTECHNICAL ENGINEER IS TO SUBMIT TO THE CITY OF MIAMI A SIGNED AND SEALED LETTER ATTESTING THAT THE SITE AND EXCAVATIONS HAVE BEEN OBSERVED AND THE FOUNDATION CONDITIONS ARE SIMILAR TO THOSE UPON WHICH THE DESIGN IS BASED.



SIDE VIEW DETAIL
SCALE: 3/4" = 1'-0"



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



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

DETAIL A / S-2
SCALE: 3/4" = 1'-0"

GROUND FLOOR SLAB NOTES:

1- FLOOR SLAB HAS A 4" CONC. SLAB ON WELL COMPACTED FILL OVER A POLYETHYLENE VAPOR BARRIER.
REINF. W/ 6x6 - W 1. 4 x W 1. 4 WWF. (U.O.N.) LAPPED 6" MIN. (WWF SHOULD BE PLACED 2" BELOW THE TOP OF THE SLAB IN ORDER TO BE EFFECTIVE)

2- PROVIDE SAW CUT JOINTS (C.J.) AS INDICATED ON PLAN

3- COORDINATE ALL FLOOR SLOPES AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

4- CENTERLINE OF COLUMN OR WALL IS CENTERLINE OF FOOTING. (U.O.N.)

5- TOP OF FOOTING ELEVATION: (MONOLITHIC)
(AS PER FBC 1819.4.5 TOP OF PERIMETER FOOTINGS SHALL BE A MIN. OF 8" BELOW FINISH GRADE)

MASONRY NOTES:

1- PROVIDE # 9 ga. LADDER TYPE HORIZONTAL MASONRY REINF. @ 16" O/C. IN ALL MASONRY WALLS (U.O.N.).

2- SPLICE VERTICAL MASONRY WALL REINFORCEMENT 48 BAR DIAMETERS AS FOLLOWS: FOR # 5 BARS: 30"

3- AT EITHER SIDE OF OPENINGS BETWEEN 3'-0" AND 4'-0" INCLUSIVE PROVIDE 2 # 5 VERT. IN GROUTED CELL (U.O.N) FOR OPENINGS FROM 4'-0" TO 6'-6"

4- ALL MASONRY IN THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE W/ ACI 530-02 AND THE FLORIDA BUILDING CODE.
ALL MASONRY IN THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH ACI 530.1-02.

5- MASONRY UNITS TO COMPLY WITH ASTM C-90 AND HAVE A MIN F'M AND A NET AREA COMPRESSIVE STRENGHT (N.A.C.S.) AS FOLLOWS: FOUNDATION TO THIRD FLOOR: F'M=2000 PSI AND N.A.C/S:=2800 PSI.
THIRD FLOOR TO M.R. ROOF: F'M = 1500 PSI AND N.A.C.S. = 1900 PSI.
CONTRACTOR MUST PROVIDE WRITTEN CONFIRMATION FROM THE MASONRY MANUF. OF THE ABOVE REQUIREMENTS.

6- GROUT TO HAVE A MIN. F'c=3000 PSI AT 28 DAYS WITH A SLUMP OF 8" +/- 1" AND TO BE POURED IN 4'-0" LIFTS.

7- USE BAR SPACERS POSITIONERS TO MANTAIN MASONRY REINF. IN PROPER LOCATION AND VERTICAL ALIGNMENT.

8- PROVIDE STANDARD HOOKS AT FOUNDATIONS AND TOP TIE BEAM.

BEAM SCHEDULE

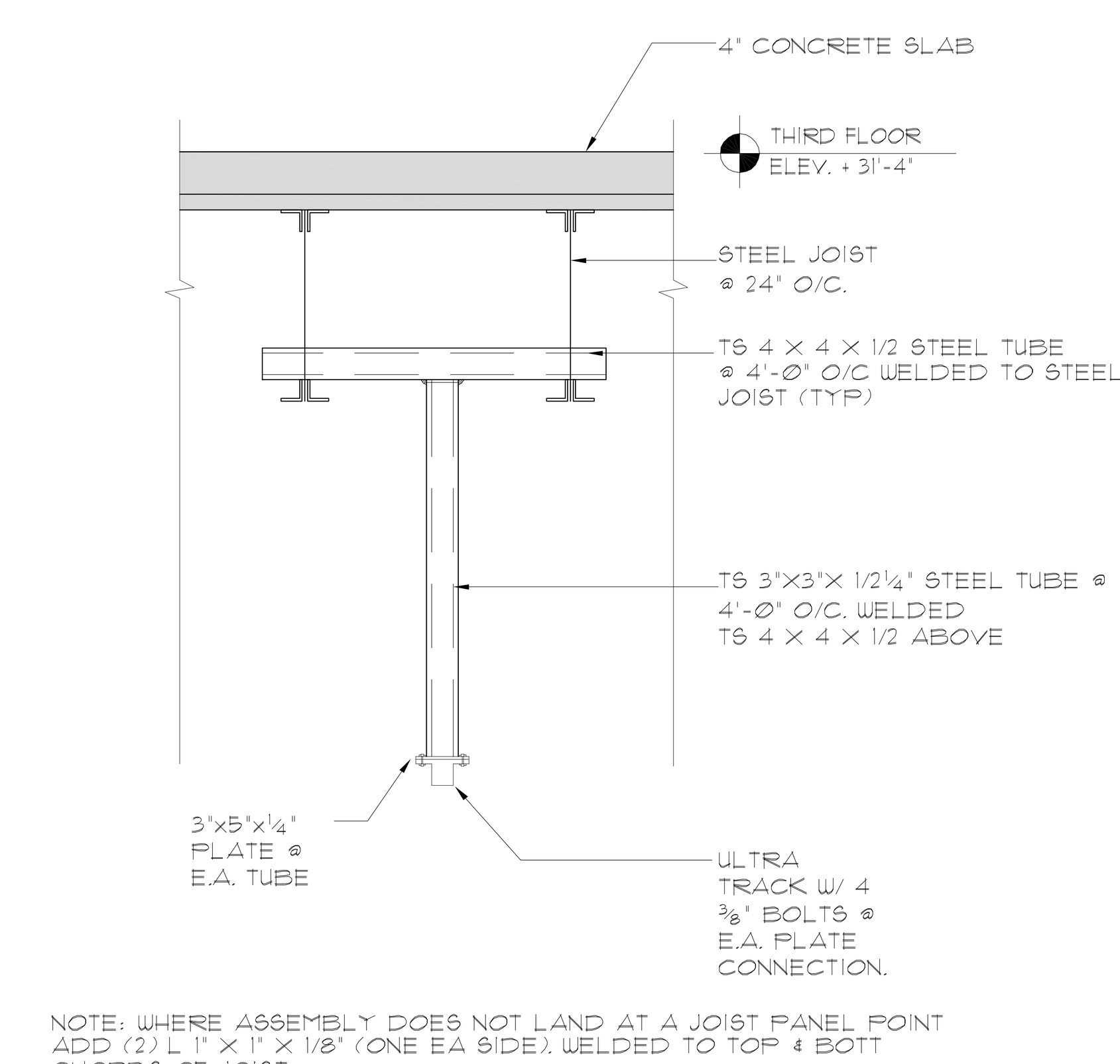
MARK	ELEV.	SIZE	REINFORCEMENT					STIRRUPS		REMARKS
			BOT.	TOP	C	E	I	No.	SPACING EACH END	
TB-1	VARIES	8 X 12	2 # 5	2 # 5				3 ☐	4 @ 12", BAL @ 48"	

** TIE BEAM NOTE: DROP BOTTOM OF ALL TIE BEAMS AS REQUIRED OVER OPENINGS AND ADD 2 # 5 HOR. FOR EACH 12" OF VERTICAL DROP. IN OPENINGS LARGER THAN 6'-6" ADD # [illegible] @ 12" O/C.
PROVIDE 2 # 5 (30" X 30") CORNER BARS AT EVERY CONC. TIE BEAM OUTSIDE CORNER OR CHANGE IN DIRECTION.
IN MASONRY TIE BEAMS PROVIDE CORNER BARS (36" X 36") OF THE SAME QUANTITY AND SIZE AS THE TIE BEAM REINF.

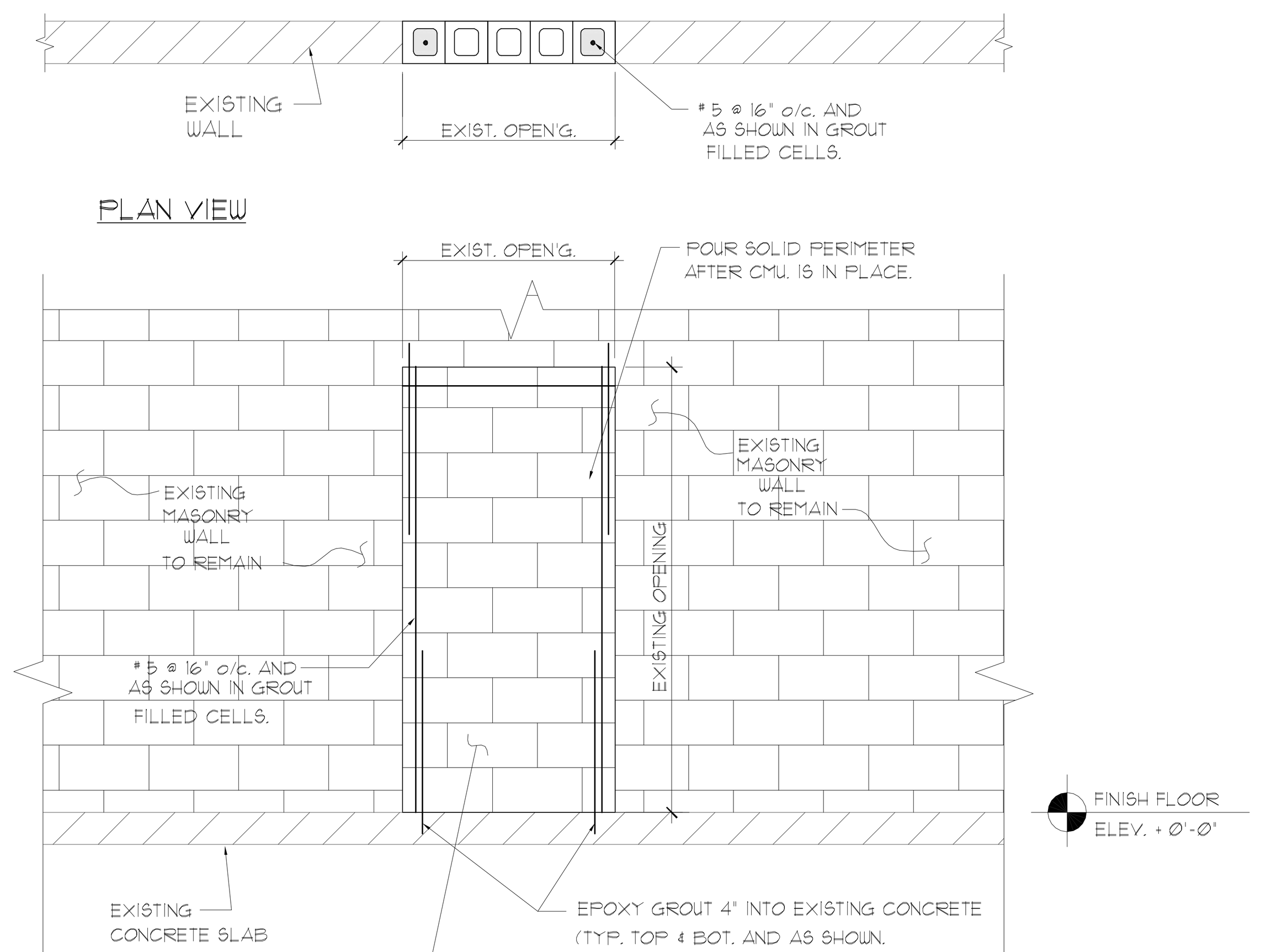
FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT		
		LONG.	TRANS.	
WF-16 (M)	16" x 12" CONT.	2 # 5	-	MONOLITHIC

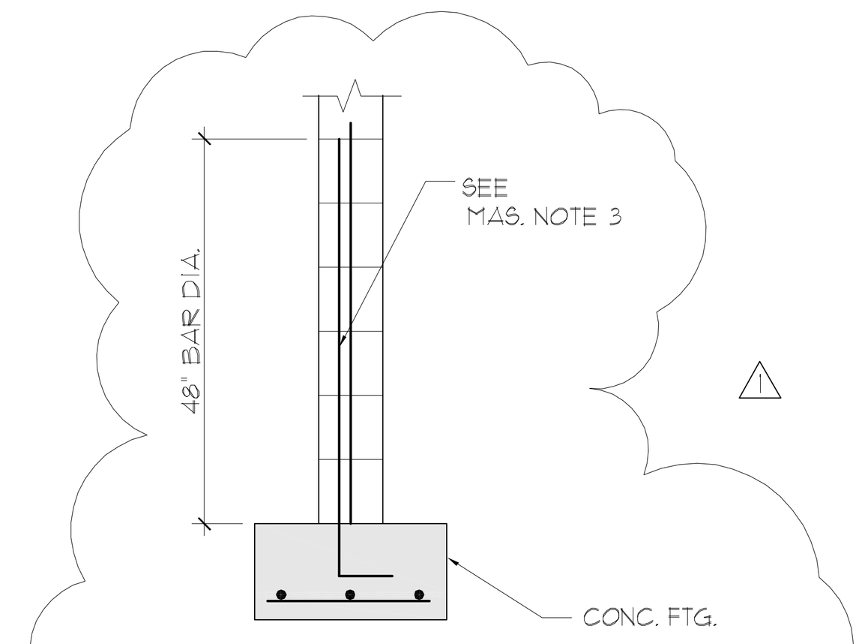
NOTE:
PROVIDE 36" x 36" CORNER BARS AT ALL CONT. FOOTING CORNERS AND INTERSECTIONS.
SPLICE REINF. 36 BAR DIAMETERS (MIN.)



TYPICAL BALAZS TRACK SUPPORT AT 3RD FLOOR
SCALE: 3/4" = 1'-0"



BLOCK-UP DETAIL
SCALE: 3/16" = 1'-0"



MASONRY SPLICE DETAIL
SCALE: 1/2" = 1'-0"

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INTERIOR ALTERATIONS FOR:
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Municipal Services Facility
Owner: The Town of Medley
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Job 13-161 Date 12-5-13 design P.I.C. drawn M.C.

Date
Scale
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Job
Sheet S-2
Of Sheets