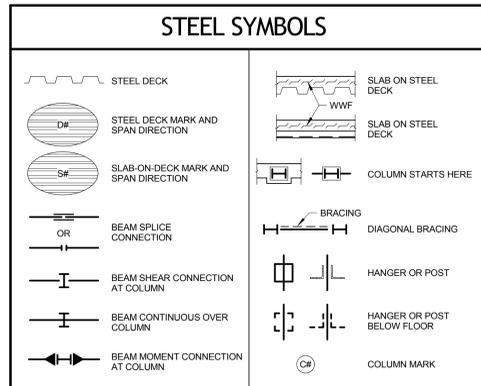
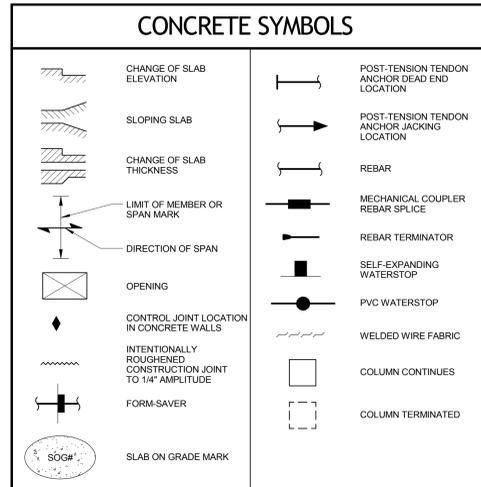


STRUCTURAL DRAWINGS ABBREVIATIONS

&	AND	JST	JOIST
A/E	ARCHITECT/ENGINEER	JT	JOINT
ACI	AMERICAN CONCRETE INSTITUTE	KB	KNEE BRACE
ADCL	ADDITIONAL	KIP-K	1000 POUNDS
ADJ	ADJACENT	KO	KNOCK-OUT
AGGR	AGGREGATE	KSI	KIPS PER SQUARE INCH
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L	ANGLE OR LENGTH
ALT	ALTERNATE	LAB	LABORATORY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LB	POUND
APA	AMERICAN PLYWOOD ASSOCIATION	LF	LINEAL FOOT
APPROX	APPROXIMATE	LN	LINEAL, LINEAR
AR	ANCHOR ROD	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECTURAL	LLV	LONG LEG VERTICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LONGIT	LONGITUDINAL
AWS	AMERICAN WELDING SOCIETY	LP	LOW POINT
B/	BOTTOM OF	LSP	LAMINATED STRAND LUMBER
BAL	BALANCE	LSTL	LONG SLOTTED HOLE
BD	BOARD	LWT	LIGHT WEIGHT
BF	BRACED FRAME	LVL	LAMINATED VENEER LUMBER
BLDG	BUILDING	MAS	MASONRY
BLK	BLOCK	MATL	MATERIAL
BLKG	BLOCKING	MAX	MAXIMUM
BM	BEAM	MB	MACHINE BOLT
BOT	BOTTOM	MC	MISCELLANEOUS CHANNEL
BRG	BEARING	MECH	MECHANICAL
BRKT	BRACKET	MEMB	MEMBRANE
BTWN	BETWEEN	MEP	MECHANICAL/ ELECTRICAL/ PLUMBING
BU	BUILT UP	MF	MOMENT FRAME
C	STANDARD CHANNEL	MFR	MANUFACTURER
CANT	CANTILEVER	MIN	MINIMUM
CC	CENTER TO CENTER	MISC	MISCELLANEOUS
CF	COLD FORMED	MO	MASONRY OPENING
CG	CENTER OF GRAVITY	MULT	MULTIPLE
CIP	CAST-IN-PLACE	N/A	NOT APPLICABLE
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	NO	NUMBER
CJP	COMPLETE JOINT PENETRATION	NOM	NOMINAL
CL	CENTERLINE	NS	NEAR SIDE
CLR	CLEARANCE, CLEAR	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OF	OUTSIDE FACE
CONN	CONNECTION	OFD	OVERFLOW DRAIN
CONST	CONSTRUCTION	OH	OVERHEAD
CONT	CONTINUOUS	OPNG	OPENING
CONTR	CONTRACTOR	OPP	OPPOSITE
CTR	CENTER	OPPHD	OPPOSITE HAND
CTRD	CENTERED	ORIG	ORIGINAL
CU FT	CUBIC FEET	OVS	OVERSIZED HOLE
CU IN	CUBIC INCH	OWJ	PRE-MANUFACTURED OPEN WEB JOIST
CYD	CUBIC YARD	PC	PRECAST CONCRETE
DBA	DEFORMED BAR ANCHOR	PMB	PRE-ENGINEERED METAL BUILDING
DBL	DOUBLE	PERM	PERMANENT
DEG	DEGREE	PERP	PERPENDICULAR
DEMO	DEMOLITION, DEMOLISH	PJP	PARTIAL JOINT PENETRATION
DEPT	DEPARTMENT	PL	PLATE
DET	DETAIL	PLF	POUNDS PER LINEAL FOOT
DIA	DIAMETER	PLYWD	PLYWOOD
DIAG	DIAGONAL	PREFAB	PREFABRICATED
DIAPH	DIAPHRAGM	PRELIM	PRELIMINARY
DIM	DIMENSION	PREP	PREPARATION, PREPARE
DN	DOWN	PROJ	PROJECTION
DO	DITTO	PS	PRESTRESSED
DP	DEEP	PSF	POUNDS PER SQUARE FOOT
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
DWL	DOWELS	PSL	PARALLEL STRAND LUMBER
EA	EACH	PT	POST-TENSIONED
EF	EACH FACE	R	RADIUS
EJ	EXPANSION JOINT	RD	ROOF DRAIN
EL ELEV	ELEVATION	REF	REFERENCE
ELEC	ELECTRICAL	REINF	REINFORCEMENT, REINFORCE
ENCL	ENCLOSURE	REQD	REQUIRED
ENGR	ENGINEER	RO	ROUGH OPENING
EOD	EDGE OF DECK	RTU	ROOFTOP MECHANICAL UNIT
EOJ	EDGE OF JOIST	S	SLOPE
EOS	EDGE OF SLAB	SCHED	SCHEDULE
EQ	EQUAL	SECT	SECTION
EQPT	EQUIPMENT	SF	SQUARE FEET
ES	EACH SIDE	SHT	SHEET
EW	EACH WAY	SIM	SIMILAR
EX	EXISTING	SOG	SLAB-ON-GRADE
EXP	EXPANSION	SPA	SPACES, SPACE
EXT	EXTERIOR	SPECS	SPECIFICATIONS
FD	FLOOR DRAIN	SQ	SQUARE
FDN	FOUNDATION	SS	STAINLESS STEEL
FIN	FINISH	SSLT	SHORT SLOTTED HOLE
FLG	FLANGE	STD	STANDARD
FLR	FLOOR	STIFF	STIFFENER
FS	FAR SIDE	STL	STEEL
FT	FEET	STRUC	STRUCTURAL
FTG	FOOTING	SYM	SYMMETRICAL
FTGD	FOOTING DRAIN	T & B	TOP AND BOTTOM
FV	FIELD VERIFY	T	TOP OF
GA	GAUGE	TGB	TOP OF GRADE BEAM
GALV	GALVANIZED	TBS	MECHANICAL TENSION BUTT SPLICE
GB	GRADE BEAM	TEMP	TEMPERATURE
GL	GLUED LAMINATED TIMBER (GLULAM)	THRU	THROUGH
GRND	GROUND	TJ	PREFABRICATED WOOD I-JOIST
GT	GIRDER TRUSS	TRANS	TRANSVERSE
HAS	HEADED ANCHOR STUD	TYP	TYPICAL
HORIZ	HORIZONTAL	UL	UNDERWRITERS' LABORATORY INC.
HP	HIGH POINT	UNO	UNLESS NOTED OTHERWISE
HSS	HOLLOW STRUCTURAL SECTION	UT	ULTRA-SONIC TEST
HT	HIP TRUSS	VERT	VERTICAL
HVAC	HEATING, VENTILATION, AIR CONDITIONING	W	WIDE FLANGE
ID	INSIDE DIAMETER	W/	WITH
IF	INSIDE FACE	WO	WITHOUT
IN	INCH	WD	WOOD
INCL	INCLUDE	WH	WEEP HOLE
INFO	INFORMATION	WP	WORK POINT
INSUL	INSULATION	WT	WEIGHT, STRUCTURAL T
INT	INTERIOR	WWF	WELDED WIRE FABRIC
JBRG	JOIST BEARING	XS	EXTRA STRONG (PIPE)
		XXS	DOUBLE EXTRA STRONG (PIPE)

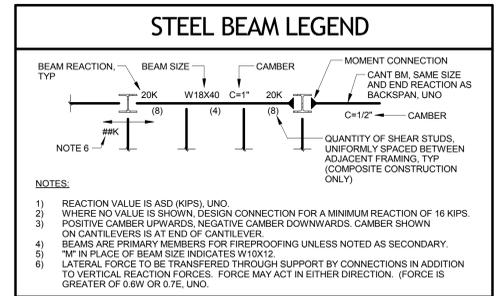
CONNECTORS

CONNECTOR	SECTION	END/ALT VIEW
CAST-IN ANCHOR ROD		
POST-INSTALLED MECHANICAL ANCHOR		
POST INSTALLED ADHESIVE ANCHOR		
HEADED STUD		
BOLT		



STEEL MEMBERS

SHAPE	SECTION	ELEVATION	PLAN VIEW
W-SHAPE BEAM			
CHANNEL			
ANGLE			
DOUBLE ANGLE			
HOLLOW STRUCTURAL SECTION -RECTANGULAR			
HOLLOW STRUCTURAL SECTION -CIRCULAR (PIPE)			
OPEN WEB STEEL JOIST			



100% CONSTRUCTION DOCUMENTS

CONSULTANTS: Baysinger Design Group, Inc. 4311 West 126th Street, Suite 100B Moline, Illinois 62309 Phone: 618.996.8815 Fax: 618.996.8812 Email: info@baysingerdesign.com Website: www.baysingerdesign.com		 AMERICAN STRUCTUREPOINT INC. 7260 Grandstand Station, Indianapolis, IN 46256 Tel: 317.563.5500 Fax: 317.563.0270 www.structurepoint.com		PROJECT MANAGER: APOGEE Consulting Group Engineers Architects www.acgp.com 919-858-7420		Project Number: 16-198 Scale: AS INDICATED Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title: ABBREVIATIONS AND SYMBOLS Location: MARION VAMC MARION, IL, 62959		Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42 Approved: Project Director Date: 09/16/17 Checked: DGC Drawn: JHC		VA PROJECT NUMBER: 657-343 Building Number: 42 Drawing Number: SS-001 Dwg. 1 of 28	
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GENERAL

STRUCTURES INDICATED ON THESE DRAWINGS HAVE BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. THE METHODS, MEANS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE STRENGTH OF THE STRUCTURE AND TO ENSURE THE SAFETY OF THE STRUCTURES AND RELATED COMPONENTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIEDOWNS, ETC.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF ANY STRUCTURAL ELEMENT AT THE TIME THE LOADS ARE APPLIED.

THE STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DISCIPLINES, TRADES, AND DELEGATED DESIGN ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH ALL OTHER APPLICABLE TRADES.

THE GENERAL NOTES ON THE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE FULL WRITTEN MATERIAL SPECIFICATIONS (IF ANY) FOR THE PROJECT.

IF A DISCREPANCY IS NOTED ON THE DRAWINGS, GENERAL NOTES, OR SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER A WRITTEN REQUEST FOR CLARIFICATION AND SHALL NOT PROCEED WITH THE AFFECTED WORK WITHOUT DOCUMENTED RESOLUTION OF THE DISCREPANCY. ALL COSTS RESULTING FROM THE CONTRACTOR IMPROPERLY PROCEEDING WITH THE AFFECTED WORK PRIOR TO DOCUMENTED RESOLUTION OF THE DISCREPANCY, INCLUDING COST OF REMOVAL AND REPLACEMENT OF NON-CONFORMING WORK, SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CONCRETE MIX DESIGN SUBMITTAL

THE CONTRACTOR SHALL SUBMIT FOR THE REVIEW OF THE STRUCTURAL ENGINEER A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. EACH MIX DESIGN SHALL BE IDENTIFIED BY A MIX NUMBER OR OTHER UNIQUE IDENTIFICATION. THE CONTRACTOR SHALL NOT VARY FROM THE MIX DESIGNS NOR USE ANY CONCRETE OTHER THAN THE APPROVED MIX DESIGNS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. MIX DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING INFORMATION:

- MIX DESIGN NUMBER OR UNIQUE IDENTIFICATION AND INTENDED LOCATION OF PLACEMENT
- CEMENT TYPE, PROPORTION AND NAME OF MANUFACTURER
- FLY ASH PROPORTION (WHEN USED), LABORATORY ANALYSIS CERTIFICATION, AND NAME AND LOCATION OF SUPPLIER
- COURSE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER
- FINE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER
- MIXING WATER PROPORTION AND SOURCE
- MIXING WATER, PRODUCT NAME(S) AND MANUFACTURER NAME(S)
- FIBER REINFORCEMENT DOSAGE (WHEN USED), PRODUCT NAME AND MANUFACTURER NAME
- DESIGN 28-DAY COMPRESSIVE STRENGTH (FC)
- DESIGN SLUMP RANGE
- DESIGN AIR-ENTRAPMENT (FOR CONCRETE REQUIRING ENTRAINED AIR)
- STATISTICAL ANALYSIS OF LABORATORY STRENGTH TEST DATA IN ACCORDANCE WITH "STANDARD VARIATION" DETERMINATION OUTLINED IN ACI 318
- TEMPERATURE CONTROL PLAN INCLUDING MIX DESIGN CALCULATIONS FOR TEMPERATURE GAIN, PROTECTION, AND INSULATION MEASURES AND COOLING METHODS IF APPROPRIATE.

DELEGATED DESIGN

FOR ALL SUBMITTALS INDICATED AS "DELEGATED DESIGN" THE CONTRACTOR SHALL ENGAGE A LICENSED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN AND DETAIL THE ITEMS NOTED IN THE STRUCTURAL SUBMITTALS AND SPECIFICATIONS AS A DELEGATED DESIGN.

THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND CONTAIN OR INDICATE THE FOLLOWING:

- PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE RESPONSIBLE FOR THEIR PREPARATION.
- COMPLIANCE WITH THE PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA NOTED IN THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
- LOCATION, TYPE, MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE BUILDING STRUCTURE.

SUBMITTALS THAT DO NOT CONTAIN THE INFORMATION NOTED ABOVE WILL BE REJECTED WITHOUT COMMENT.

THE STRUCTURAL ENGINEER'S REVIEW OF DELEGATED DESIGN SUBMITTALS WILL BE FOR GENERAL PERFORMANCE WITH THE DESIGN LOADING, DESIGN INTENT AND LOADS IMPOSED.

SHOP DRAWING SUBMITTALS

THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS TO ENABLE HIM TO FABRICATE, ERECT AND CONSTRUCT ALL PARTS OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE SHOP DRAWINGS SHALL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, ACCURACY AND FIT OF WORK.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. SHOP DRAWINGS SUBMITTED WITHOUT CONTRACTOR'S REVIEW WILL BE RETURNED UNCHECKED.

PROVIDE ALL SUBMITTALS IN ELECTRONIC PDF FORMAT.

SUBMIT SHOP DRAWINGS FOR EACH OF THE FOLLOWING ITEMS:

- CONCRETE REINFORCEMENT
- STRUCTURAL STEEL
- STEEL DECK

SUBMIT DELEGATED DESIGN SHOP DRAWINGS FOR EACH OF THE FOLLOWING ITEMS:

- STRUCTURAL STEEL CONNECTIONS (INCLUDING DESIGN CALCULATIONS AND SUMMARY PAGE FOR CONNECTIONS NOT SPECIFICALLY DETAILED IN THE CONTRACT DRAWINGS)
- COLD-FORMED STEEL FRAMING (INCLUDING DESIGN CALCULATIONS, MEMBER PROPERTIES, FASTENER REQUIREMENTS, ASSEMBLY DETAILS AND CONNECTION DETAILS)

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW. CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

- FIBER REINFORCEMENT FOR CONCRETE
- CONCRETE CURING COMPOUND
- CONCRETE JOINT SEALANT
- WATER STOPS
- NON-SHRINK GROUT
- COLD-FORMED STEEL FRAMING
- COLD-FORMED STEEL FRAMING CONNECTOR HARDWARE
- VAPOR RETARDER

RENOVATION (EXISTING CONDITIONS)

INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM DRAWINGS THAT WERE PREPARED FOR THE US DEPARTMENT FOR VETERAN AFFAIRS, PREPARED BY FGM, INC, ENTITLED CLINICAL AND OUTPATIENT ADDITION, DATED 25 MARCH 1994.

WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

WHERE NEW WORK IS TO BE FITTED TO OLD WORK, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD, AND REPORT ANY ERRORS OR DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY NEW MEMBERS.

EXISTING MATERIALS TO BE REMOVED AND REINSTALLED AS PART OF THIS PROJECT, THAT BECAME DAMAGED, SHALL BE REPLACED WITH NEW MATERIAL OF EQUAL QUALITY AND APPEARANCE. AT THE CONTRACTOR'S EXPENSE.

ALL WORK SHALL BE PERFORMED WITHOUT DAMAGE TO ADJACENT RETAINED WORK. ADJACENT EXISTING CONSTRUCTION SHALL BE PROTECTED FROM DUST, DIRTY AND DEBRIS ACCUMULATION AT ALL TIMES.

FOUNDATIONS

FOUNDATION EXCAVATIONS AND SOIL RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT NUMBER 2017-3060.10 PREPARED BY SCI ENGINEERING, INC. DATED MARCH 27, 2017.

DESIGN NET SOIL PRESSURE:

SPREAD FOOTINGS: 4,000 PSF
CONTINUOUS WALL FOOTINGS: 4,000 PSF

FOUNDATIONS AND SOILS RELATED WORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER. WRITTEN FIELD REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER AS SOON AS THEY BECOME AVAILABLE.

FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

EXCAVATIONS FOR SPREAD FOOTINGS, COMBINED FOOTINGS, CONTINUOUS FOOTINGS AND MAT FOUNDATIONS SHALL BE CLEANED AND HAND TAMPED TO UNIFORM SURFACE AND SHALL BE PROTECTED AND MAINTAINED UNIFORM UNTIL CONCRETE IS PLACED.

BELOW-GRADE WALLS

DO NOT BACKFILL AGAINST BELOW-GRADE CONCRETE (OR MASONRY) WALLS UNTIL THE CONCRETE (OR MASONRY ASSEMBLAGE) HAS REACHED ITS 28-DAY COMPRESSIVE STRENGTH.

WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF BELOW-GRADE WALLS, BACKFILL EVENLY ON EACH SIDE OF EACH WALL TO PREVENT UNBALANCED SOIL LOADS AGAINST THE WALL.

UNLESS NOTED OTHERWISE, DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL THE BASEMENT AND GROUND FLOOR SLABS HAVE BEEN COMPLETELY INSTALLED AND REACHED THEIR 28-DAY COMPRESSIVE STRENGTH AND ALL FLOOR FRAMING AND SLAB CONNECTIONS TO THE BASEMENT WALLS HAVE BEEN COMPLETELY INSTALLED.

WHERE BASEMENT WALLS OCCUR, BACKFILL EVENLY ON ALL SIDES OF THE BUILDING TO PREVENT UNBALANCED SOIL LOADS AGAINST THE BASEMENT STRUCTURE, UNLESS NOTED OTHERWISE.

FLOWABLE FILL

WHERE INDICATED ON THE STRUCTURAL DRAWINGS, FLOWABLE FILL SHALL BE A CONTROLLED LOW-STRENGTH MATERIAL (CLSM) PRODUCED AND PLACED IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 229. PROVIDE MATERIAL WITH 28-DAY COMPRESSIVE STRENGTH OF 1,000 PSI UNLESS NOTED OTHERWISE.

CONCRETE

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND COMMENTARY (ACI 318R).

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301).

READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94/C94M. IN CASE OF A DISCREPANCY, THE PLANS AND SPECIFICATIONS SHALL GOVERN.

CEMENT SHALL CONFORM TO ASTM C150/C150M, TYPE I, UNO.

FLY ASH SHALL CONFORM TO ASTM C618, CLASS C OR F.

NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33/C33M.

WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494/C494M.

AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260/C260M AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES. MEETING THE FINISH MATERIAL SUPPLIER'S WRITTEN REQUIREMENTS. ELATNESS SHALL BE THE MORE STRINGENT OF THE FINISH MATERIAL REQUIREMENTS AND THE FOLLOWING:

CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS SHALL NOT BE USED.

IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 308R, COLD WEATHER CONCRETING.

IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 308R, HOT WEATHER CONCRETING.

CONCRETE ELEMENTS WITH A MINIMUM DIMENSION OF 4 FEET SHALL BE CONSIDERED MASS CONCRETE. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, MASS CONCRETE SHALL BE PLACED AND CURED UNDER THE FOLLOWING CONDITIONS: INITIAL CONCRETE TEMPERATURE SHALL NOT EXCEED 70 DEGREES F. TEMPERATURE DIFFERENTIAL WITHIN THE CONCRETE DURING CURING SHALL NOT EXCEED 35 DEGREES F. MAXIMUM INTERNAL TEMPERATURE OF THE CONCRETE SHALL NOT EXCEED 160 DEGREES F.

USE OF CONSTRUCTION JOINTS AT LOCATIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE STRUCTURAL ENGINEER FOR REVIEW.

SLUMP FOR PUMPED CONCRETE SHALL BE MEASURED AT POINT OF DISCHARGE.

NORMAL WEIGHT CONCRETE SHALL HAVE THE PROPERTIES AS INDICATED IN THE CONCRETE MIX SCHEDULE AND SPECIFICATIONS.

CONCRETE SLABS ON GRADE

SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R).

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS ON GRADE AS REQUIRED TO ACCOMMODATE FLOOR FINISHES AND FINISH MATERIALS PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. REVIEW ALL FLOOR FINISH REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE SLABS AND COORDINATE SLAB MIX, PLACEMENT AND CURING TO COMPLY WITH FINISH FLOORING MATERIAL MANUFACTURER'S REQUIREMENTS.

CURING PROCEDURES SHALL COMPLY WITH ACI 302.1R AND USE OF CURING MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. MOISTURE RETENTION COVERS, IF USED, SHALL BE APPLIED FLAT AND SMOOTH TO RESULT IN A UNIFORM APPEARANCE AND MINIMIZE SURFACE MARKINGS AND BLEMISHES.

UNLESS NOTED OTHERWISE, OR UNLESS MORE STRINGENT REQUIREMENTS APPLY, CURE SLABS ON GRADE AS FOLLOWS:

SLABS RECEIVING FLOOR COVERING MATERIALS: MOIST CURE A MINIMUM OF 7 DAYS (OR, IF APPROVED BY FLOOR FINISH MATERIAL MANUFACTURER, USE ASTM C309, TYPE 1, CLASS B, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND, DISSPATING). REMOVAL OF CURING COMPOUND MATERIAL, IF REQUIRED FOR PROPER INSTALLATION OF FLOOR FINISH MATERIALS, SHALL BE PERFORMED BY THE CONCRETE CONTRACTOR.

EXPOSED SLABS UNO: ASTM C1315, TYPE 1, CLASS A, WATERBORNE, MEMBRANE-FORMING CURING AND SEALING COMPOUND.

EXPOSED WAREHOUSE SLABS: USE ASHFORD FORMULA CURING/ SEALING/ HARDENING COMPOUND.

PROVIDE SLABS ON GRADE WITH A SMOOTH TROWEL FINISH UNLESS NOTED OTHERWISE.

CONTRACTOR SHALL REVIEW ALL REQUIRED FLOOR FINISH MATERIAL REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE AND SHALL PROVIDE FLOOR SLAB FLATNESS AND LEVELNESS MEETING THE FINISH MATERIAL SUPPLIER'S WRITTEN REQUIREMENTS. FLATNESS AND LEVELNESS SHALL BE THE MORE STRINGENT OF THE FINISH MATERIAL REQUIREMENTS AND THE FOLLOWING:

ALL SLABS, UNO:

OVERALL VALUES: FF=25 FL=20
LOCAL VALUES: FF=20 FL=15

WAREHOUSE SLABS:

OVERALL VALUES: FF=35 FL=25
LOCAL VALUES: FF=25 FL=15

CONTRACTOR SHALL PROVIDE ALL NECESSARY REPAIR, GRINDING AND/OR LEVELING OF THE CONCRETE SLAB TO ACCOMMODATE ALL FLOOR FINISHES PRIOR TO INSTALLATION OF THE FINISH MATERIALS WITH NO ADDITIONAL COST TO THE PROJECT.

THE MINIMUM LOCAL AREA SHALL BE ANY BAY DEFINED BY COLUMN LINES.

UNLESS SHOWN OR NOTED OTHERWISE, PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS. PROVIDE JOINTS AT ALL COLUMN LOCATIONS. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.

CONTROL JOINTS IN SLABS ON GRADE SHALL NOT RECEIVE JOINT FILLER MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE UNIT MASONRY

CONCRETE MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS OF CONCRETE MASONRY (ACI 530).

CONCRETE MASONRY SHALL CONSIST OF HOLLOW UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1,800 PSI. CONCRETE MASONRY ASSEMBLAGES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (FM) OF 1,500 PSI AT 28 DAYS.

MORTAR SHALL BE TYPE S PROPORTIONED IN ACCORDANCE WITH ASTM C270.

GROUT FOR REINFORCED MASONRY SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C478. COARSE AND FINE AGGREGATES SHALL CONFORM TO ASTM C 404. USE COARSE GROUT FOR ALL GROUTING EXCEPT HIGH LIFT POURS DEFINED BY ACI 530-05 TABLE 1.16.1. WHERE FINE GROUT SHALL BE USED.

PROVIDE 3/8-GAUGE GALVANIZED STEEL WIRE JOINT REINFORCEMENT IN ALL MASONRY CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS AND BE LAPPED EIGHT INCHES AT SPLICES. CUT REINFORCEMENT AT ALL CONTROL AND EXPANSION JOINTS. SPACE REINFORCEMENT AT 8" ON CENTER FOR PARAPETS AND BELOW GROUND FLOOR ELEVATION. ELSEWHERE SPACE REINFORCEMENT AT 16 INCHES ON CENTER.

BEAMS AND LINTELS SHALL BEAR A MINIMUM OF 8 INCHES UNTO SUPPORTING MASONRY, UNLESS NOTED OTHERWISE. BEARING FOR ALL BEAMS, LINTELS, JOISTS, ETC. SHALL BE GROUTED SO AS TO MAINTAIN A MINIMUM OF ONE (1) INCHES) BELOW BEARING ELEVATION, UNLESS NOTED OTHERWISE.

PROVIDE MASONRY CONTROL JOINTS AT 25'-0" OC MAXIMUM, UNO. LOCATE JOINTS IN ACCORDANCE WITH NCMAT 10-2C "CONTROL JOINTS FOR CONCRETE MASONRY WALLS". EMPIRICAL METHOD AT OFFSETS, SETBACKS, WALL INTERSECTIONS, CORNERS, CHANGES IN THICKNESS, CHANGES IN HEIGHT, OR EDGE OF OPENINGS.

VAPOR RETARDER

VAPOR RETARDER SHALL BE ASTM E1748 CLASS A WITH A PERMEANCE OF 0.1 PERMS OR LESS, UNO. INSTALL, INSPECT AND REPAIR IN ACCORDANCE WITH ASTM E1843 AND MANUFACTURER'S WRITTEN REQUIREMENTS. INSTALL VAPOR RETARDER ONLY AT LOCATIONS SPECIFICALLY INDICATED.

CONCRETE SLABS ON METAL DECK

UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONCRETE SLABS ON METAL DECK SHALL BE GROUTED AS REQUIRED TO MAINTAIN A CONSTANT SLAB THICKNESS.

CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITIES AND SHALL INCLUDE THE COST OF ALL REQUIRED SLAB-ON-DECK CONCRETE IN THE BID PRICE.

PRIOR TO PLACEMENT OF CONCRETE SLABS ON METAL DECK, THE CONTRACTOR SHALL CAREFULLY REVIEW THE ELEVATIONS OF THE STRUCTURAL STEEL FRAMING, INCLUDING CAMBERED MEMBERS, FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES (SUCH AS IMPROPER CAMBER, IMPROPER STEEL ELEVATIONS, ETC.) IMMEDIATELY AND SHALL NOT BEGIN CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

ACTUAL CONCRETE SLAB THICKNESS SHALL NOT BE LESS THAN THE INDICATED NOMINAL THICKNESS AT ANY LOCATION. IF ANY CONDITION IS DISCOVERED THAT WOULD PREVENT PLACEMENT OF CONCRETE TO THE NOMINAL THICKNESS, CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL NOT PROCEED WITH CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

PROVIDE SLABS ON METAL DECK WITH A SMOOTH TROWEL FINISH UNLESS NOTED OTHERWISE.

CONTRACTOR SHALL REVIEW ALL REQUIRED FLOOR FINISH MATERIAL REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE AND SHALL PROVIDE FLOOR SLAB FLATNESS AND LEVELNESS MEETING THE FINISH MATERIAL SUPPLIER'S WRITTEN REQUIREMENTS. ELATNESS SHALL BE THE MORE STRINGENT OF THE FINISH MATERIAL REQUIREMENTS AND THE FOLLOWING:

ALL SLABS, UNO:

OVERALL VALUES: FF=25
LOCAL VALUES: FF=20

CONTRACTOR SHALL PROVIDE ALL NECESSARY REPAIR, GRINDING AND/OR LEVELING OF THE CONCRETE SLAB TO ACCOMMODATE ALL FLOOR FINISHES PRIOR TO INSTALLATION OF THE FINISH MATERIALS WITH NO ADDITIONAL COST TO THE PROJECT.

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS ON METAL DECK AS REQUIRED TO ACCOMMODATE FLOOR FINISHES AND FINISH MATERIALS PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. REVIEW ALL FLOOR FINISH REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE SLABS AND COORDINATE SLAB MIX, PLACEMENT AND CURING TO COMPLY WITH FINISH FLOORING MATERIAL MANUFACTURER'S REQUIREMENTS.

CURING PROCEDURES SHALL COMPLY WITH ACI 302.1R AND USE OF CURING MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. MOISTURE RETENTION COVERS, IF USED, SHALL BE APPLIED FLAT AND SMOOTH TO RESULT IN A UNIFORM APPEARANCE AND MINIMIZE SURFACE MARKINGS AND BLEMISHES.

UNLESS NOTED OTHERWISE, OR UNLESS MORE STRINGENT REQUIREMENTS APPLY, CURE SLABS ON METAL DECK AS FOLLOWS:

SLABS RECEIVING FLOOR COVERING MATERIALS: MOIST CURE A MINIMUM OF 7 DAYS (OR, IF APPROVED BY FLOOR FINISH MATERIAL MANUFACTURER, USE ASTM C309, TYPE 1, CLASS B, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND, DISSPATING). REMOVAL OF CURING COMPOUND MATERIAL, IF REQUIRED FOR PROPER INSTALLATION OF FLOOR FINISH MATERIALS, SHALL BE PERFORMED BY THE CONCRETE CONTRACTOR.

EXPOSED SLABS UNO: ASTM C1315, TYPE 1, CLASS A, WATERBORNE, MEMBRANE-FORMING CURING AND SEALING COMPOUND.

EXPOSED WAREHOUSE SLABS: USE ASHFORD FORMULA CURING/ SEALING/ HARDENING COMPOUND.

PROVIDE SLABS ON METAL DECK WITH A SMOOTH TROWEL FINISH UNLESS NOTED OTHERWISE.

CONTRACTOR SHALL REVIEW ALL REQUIRED FLOOR FINISH MATERIAL REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE AND SHALL PROVIDE FLOOR SLAB FLATNESS AND LEVELNESS MEETING THE FINISH MATERIAL SUPPLIER'S WRITTEN REQUIREMENTS. FLATNESS AND LEVELNESS SHALL BE THE MORE STRINGENT OF THE FINISH MATERIAL REQUIREMENTS AND THE FOLLOWING:

ALL SLABS, UNO:

OVERALL VALUES: FF=25
LOCAL VALUES: FF=20

WAREHOUSE SLABS:

OVERALL VALUES: FF=35
LOCAL VALUES: FF=25

CONTRACTOR SHALL PROVIDE ALL NECESSARY REPAIR, GRINDING AND/OR LEVELING OF THE CONCRETE SLAB TO ACCOMMODATE ALL FLOOR FINISHES PRIOR TO INSTALLATION OF THE FINISH MATERIALS WITH NO ADDITIONAL COST TO THE PROJECT.

UNLESS SHOWN OR NOTED OTHERWISE, PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS. PROVIDE JOINTS AT ALL COLUMN LOCATIONS. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.

CONTROL JOINTS IN SLABS ON GRADE SHALL NOT RECEIVE JOINT FILLER MATERIAL UNLESS NOTED OTHERWISE.

WELDED WIRE FABRIC

WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A1064A/1064M. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND LAPPED A MINIMUM OF ONE (1) INCHES.

WELDED WIRE FABRIC SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE: 7 INCHES DOWN FROM TOP OF SLAB. SLABS ON METAL DECK: 3/4 INCH DOWN FROM TOP OF SLAB.

FIBER REINFORCEMENT (SYNTHETIC)

MICRO-FIBER REINFORCEMENT SHALL BE VIRGIN (NON-RECYCLED) NYLON OR POLYPROPYLENE FIBERS COMPLYING WITH ASTM C1116/C1116M, WITH LONGEST FIBERS NOT LESS THAN 0.75 INCHES.

MACRO-FIBER REINFORCEMENT SHALL BE VIRGIN (NON-RECYCLED) POLYPROPYLENE / POLYETHYLENE FIBER BLEND COMPLYING WITH ASTM C1116, WITH LONGEST FIBERS NOT LESS THAN 1.75 INCHES.

FIBERS SHALL BE INTRODUCED INTO CONCRETE MIX AT THE BATCH PLANT AND MIXED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

DOSE RATE SHALL BE AS INDICATED IN THE CONTRACT DOCUMENTS. USE ONLY THE FIBER TYPE INDICATED FOR EACH APPLICATION. SUBSTITUTION OF FIBER TYPES IS NOT PERMITTED.

CONCRETE TESTING

MAKE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH ASTM C31/C31M FOR EACH DAY'S POUR AND FOR EACH 50 CUBIC YARDS FOR EACH TYPE OF CONCRETE PLACED. EACH SET SHALL INCLUDE ONE SPECIMEN TESTED AT 7 DAYS, ONE SPECIMEN TESTED AT 28 DAYS AND ONE SPECIMEN IN RESERVE TO BE TESTED AT THE DIRECTION OF THE STRUCTURAL ENGINEER. AFTER GOOD CONCRETE QUALITY CONTROL HAS BEEN ESTABLISHED AND MAINTAINED BY THE COR, MAKE ONE SET OF TEST CYLINDERS FOR EACH DAY'S POUR AND FOR EACH 100 CUBIC YARDS FOR EACH TYPE OF CONCRETE PLACED. SPARE CYLINDER MAY BE DISCARDED 90 DAYS AFTER CASTING UNLESS OTHERWISE NOTED OTHERWISE BY THE STRUCTURAL ENGINEER. THIS SET OF TEST CYLINDERS SHALL BE PROTECTED AGAINST FREEZING.

WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES DURING THE COURSE OF A CONCRETE POUR OR SUBSEQUENT CURING PROCESS, AN ADDITIONAL SET OF CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED. THESE CYLINDERS SHALL BE STORED IMMEDIATELY ADJACENT TO, AND CURED UNDER THE SAME CONDITIONS AS THE BUILDING CONCRETE. SPECIAL CURING BOXES ARE NOT PERMITTED FOR THESE TEST CYLINDERS.

NON-SHRINK GROUT

GROUT SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT (WHEN TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM C827 OR CRD-0221), PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (FC) OF 5,000 PSI IN 28 DAYS.

WATERSTOPS

BASIC WIND STOP (3-SECOND GUST) = 120 MPH
WIND EXPOSURE = C
WIND DESIGN PRESSURE (P) = VARIES WITH HEIGHT AND LOCATION

MASTIC COATING

MASTIC COATING FOR PROTECTION OF INDICATED ITEMS SHALL BE BITUMASTIC 50 COAL TAR MASTIC BY TORBLINE OR EQUIVALENT SUBSTITUTE, APPROVED BY THE STRUCTURAL ENGINEER, INSTALLED AT LOCATIONS INDICATED ON DRAWINGS.

UNLESS NOTED OTHERWISE, APPLY MASTIC TO A COATING THICKNESS OF 18 MILS. PROVIDE FULL COVERAGE OVER ITEMS INDICATED TO RECEIVE COATING.

STRUCTURAL STEEL - ASD

STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE ANSIAISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION WITH AMENDMENTS, AND THE AISI 305 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION WITH AMENDMENTS.

STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992/A992M. STRUCTURAL STEEL PLATES AND ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A588/A588M, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500/A500M, GRADE B. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53/A53M, GRADE B.

STRUCTURAL STEEL ROD HANGERS AND BRACING SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.

ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36/A36M, UNLESS NOTED OTHERWISE.

BOLTED CONNECTIONS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125/F3125M GRADE 120 OR 150 BOLTS, APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION. BOLTED CONNECTIONS FOR STRUCTURAL STEEL MEMBERS SHALL BE MADE WITH 3/4" DIAMETER F3125/F3125M BOLTS, UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SLUG TIGHT CONDITION, EXCEPT BOLTED CONNECTIONS IN BRACE ELEMENTS ARE TO BE FULLY PRETENSIONED WITH CLASS A TIGHTENING SURFACES.

WELDING PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE FOR STEEL ANS/AWS D1.1.

WELDED CONNECTIONS USING ASTM A992/A992M STEEL AS A BASE METAL SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, OTHER WELDED CONNECTIONS MAY BE MADE WITH STANDARD E70XX ELECTRODES.

STRUCTURAL STEEL THAT RECEIVES FINISH PAINT SHALL BE SHOP-PRIMED WITH A RUST INHIBITING PRIMER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRIMER IS COMPATIBLE WITH FINISH COAT SYSTEM SPECIFIED BY THE ARCHITECT. COORDINATE FINISH PAINTING REQUIREMENTS WITH THE ARCHITECT.

SPECIAL INSPECTION SERVICES SCHEDULE - CONCRETE CONSTRUCTION

REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
MATERIAL TESTING	TEST	REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR EXTENT OF TESTING REQUIRED.	-	-
QUALITY CONTROL	INSPECTION	VERIFY THAT QUALITY CONTROL TESTING IS PROVIDED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.	Y	PERIODIC
REINFORCING STEEL	INSPECTION	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS (WHEN USED) AND PLACEMENT AS FOLLOWS:	Y	PERIODIC
		VERIFY THAT REINFORCEMENT SURFACES ARE FREE OF EXCESS RUST OR OTHER COATINGS THAT MAY ADVERSELY AFFECT BONDING CAPACITY. IF OILING OF FORMS IS REQUIRED, VERIFY THAT IT IS APPLIED BEFORE REINFORCING IS PLACED.	Y	PERIODIC
		VERIFY REINFORCING BARS FOR COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AS FOLLOWS:	Y	PERIODIC
		MATERIAL GRADE, SIZE, QUANTITY, SPACING, AND LAYERING; BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS; PROPER HOOK TYPE AND LOCATION; SPICE LOCATIONS AND REQUIRED LENGTH OF LAP; PROPER CLEARANCE AND COVER REQUIREMENTS FROM CONCRETE SURFACES; SUFFICIENT SPACING BETWEEN REINFORCEMENT FOR CONCRETE PLACEMENT; VERIFY THAT UNSCHEDULED ADDITIONAL REINFORCING BARS SHOWN ON PLAN, IN DETAILS, OR SPECIFIED IN NOTES ARE PROVIDED AND ARE IN COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
		MECHANICAL SPLICES:	-	-
		(TENSION AND/OR COMPRESSION) ON THE PROJECT. VERIFY COMPLIANCE WITH SPECIFICATIONS AND CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. VERIFY THAT THE MANUFACTURER IS PRESENT FOR THE FIRST INSTALLATION OF EACH TYPE OF SPICE ON THE PROJECT.	N	CONTINUOUS
		VERIFY THAT WELDED WIRE REINFORCEMENT IS COMPOSED OF FLAT SHEETS, HAS PROPER WIRE GAUGE AND SPACING, IS PROPERLY SUPPORTED, AND IS PROPERLY LAPPED.	Y	PERIODIC
		INSPECT HEADED STUD SHEAR REINFORCEMENT TO ENSURE THAT IT CONFORMS TO THE PROJECT REQUIREMENTS.	Y	PERIODIC
		REVIEW TYPE AND SPACING. VERIFY THAT REINFORCING IS ADEQUATELY SUPPORTED TO RESIST DISPLACEMENT OR SHIFTING DURING CONCRETE PLACEMENT. VERIFY WELDS OF REINFORCEMENT IS PERFORMED ACCORDING TO AWS REQUIREMENTS AND THAT IT IS INSPECTED BY THE TESTING LABORATORY.	Y	PERIODIC
		CAST-IN-PLACE BOLTS AND ANCHOR RODS	INSPECTION	INSPECT BOLTS AND ANCHOR RODS TO BE CAST IN CONCRETE PRIOR TO PLACEMENT OF CONCRETE FOR SIZE, QUANTITY, LOCATION, POSITION AND EMBEDMENT. INSPECT DURING PLACEMENT FOR PROPER CONCRETE CONSOLIDATION AROUND BOLTS AND ANCHORS.
CONCRETE MIX DESIGN	INSPECTION	BOLTS AND/OR ANCHOR RODS USED IN LATERAL FORCE RESISTING SYSTEM AT THE FOLLOWING LOCATIONS: -LIST GRID LOCATIONS-	Y	PERIODIC
		20% OF BOLTS AND/OR ANCHOR RODS USED ELSEWHERE.	Y	PERIODIC
INSPECTION OF FORMED AREA	INSPECTION	REVIEW AND BECOME FAMILIAR WITH THE MIX DESIGNS SPECIFIED ON THE PROJECT. VERIFY MIX DESIGN PROVIDED BY THE CONTRACTOR IS CONSISTENT WITH PROJECT SPECIFICATIONS AT LOCATION INDICATED. REVIEW CONCRETE BATCH TICKETS TO PROPER MIX ID, TYPE OF CONCRETE AND STRENGTH FOR THE PLACEMENT LOCATION. VERIFY THAT WATER ADDED AT SITE (IF PERMITTED), DOES NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.	Y	PERIODIC
FORMWORK	INSPECTION	VERIFY THAT ALL DEBRIS AND FOREIGN MATTER HAVE BEEN REMOVED BEFORE CONCRETE IS PLACED.	Y	PERIODIC
MATERIAL SAMPLING AND TESTING	TEST	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. VERIFY FORMWORK USED IN COMPLIANCE WITH THE SPECIFICATIONS AND APPROVAL SHOP DRAWINGS (WHEN REQUIRED).	Y	PERIODIC
CONCRETE PLACEMENT	INSPECTION	1) THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	CONTINUOUS
		INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES AS FOLLOWS:	Y	CONTINUOUS
CURING AND PROTECTION	INSPECTION	VERIFY THE CURING PROCESS IS AS SPECIFIED IN THE CONTRACT DOCUMENTS AND THAT ANY CURING COMPOUND USED IS APPLIED IN ACCORDANCE WITH MANUFACTURER'S PRINTED APPLICATION INSTRUCTIONS.	Y	PERIODIC
CONSTRUCTION JOINTS	INSPECTION	VERIFY THAT LOCATION OF VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS FOR COMPLIANCE WITH THE CONSTRUCTION JOINT LOCATION PLAN SUBMITTED BY THE CONTRACTOR TO ENGINEER OF RECORD. VERIFY THAT REINFORCEMENT, DOWELS, KEYS, AND BULKHEADS AT CONSTRUCTION JOINTS ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - SOILS AND EARTHWORK

REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
FOOTING SUBGRADE	TEST	REFERENCE EARTHWORK SPECIFICATION FOR EXTENT OF TESTING REQUIRED.	Y	PERIODIC
COMPACTION OF SOILS	TEST	REFERENCE EARTHWORK SPECIFICATION FOR EXTENT OF TESTING REQUIRED.	Y	PERIODIC
CONTROLLED STRUCTURAL FILL	TEST	REFERENCE EARTHWORK SPECIFICATION FOR EXTENT OF TESTING REQUIRED.	Y	PERIODIC
FOOTING SUBGRADE MATERIAL	INSPECTION	INSPECT SOILS BELOW FOUNDATIONS AND SLABS FOR ADEQUATE COMPACTION AND BEARING CAPACITY PROPER TO PLACEMENT OF CONCRETE.	Y	PERIODIC
EXCAVATION	INSPECTION	VERIFY EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Y	PERIODIC
CLASSIFICATION OF CONTROLLED FILL	INSPECTION	1) INSPECT PLACEMENT, LIFT THICKNESS AND COMPACTION OF CONTROLLED FILL. 2) VERIFY EXTENT AND SLOPE OF FILL PLACEMENT.	Y	PERIODIC
USE OF PROPER MATERIALS	INSPECTION	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	Y	CONTINUOUS
OBSERVATION OF SUBGRADE	INSPECTION	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - COLD FORMED METAL FRAMING

REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
QUALITY	INSPECTION	VISUALLY INSPECT THE MATERIAL PRIOR TO INSTALLATION FOR DAMAGE.	Y	PERIODIC
MATERIAL	INSPECTION	VERIFY THE SIZE, GAUGE, TYPE, PROPERTIES, AND FINISH COMPLY WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
INSTALLATION	INSPECTION	VERIFY THE COLD FORMED FRAMING MEMBERS ARE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
CONNECTIONS	INSPECTION	VERIFY CONNECTIONS FOR LOAD BEARING MEMBERS, TRUSS FRAMING, DIAPHRAGMS AND SHEAR WALL ANCHORAGE AND HOLD-DOWNS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
TRUSS BRACING	INSPECTION	FOR TRUSSES WITH CLEAR SPAN GREATER THAN 80 FEET, VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT BRACING ARE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	N	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - STEEL DECK

REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
QUALITY	INSPECTION	VISUALLY INSPECT THE DECK PRIOR TO INSTALLATION FOR DAMAGE.	Y	PERIODIC
DECK MATERIAL	INSPECTION	VERIFY THAT THE DECK DEPTH, GAUGE, TYPE, PROPERTIES, AND FINISH COMPLY WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
DECK ATTACHMENT	INSPECTION	VERIFY THAT THE DECK ATTACHMENT TO THE SUPPORTING STEEL IS AS SPECIFIED IN THE CONTRACT DOCUMENTS.	Y	PERIODIC
DECK SUPPORT	INSPECTION	VERIFY THAT THE PROPER DECK SUPPORT IS USED AROUND OPENINGS.	Y	PERIODIC
DECK ACCESSORIES	INSPECTION	VERIFY THAT DECK ACCESSORIES ARE BEING INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - MASONRY CONSTRUCTION (LEVEL 1 INSPECTION)

REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
MATERIAL TESTING	TEST	REFERENCE MASONRY SPECIFICATION FOR EXTENT OF TESTING REQUIRED.	-	-
QUALITY CONTROL	INSPECTION	VERIFY THAT QUALITY CONTROL TESTING IS PROVIDED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.	Y	PERIODIC
MATERIALS	INSPECTION	VERIFY THE MATERIALS ARE STORED PROPERLY BEFORE PLACEMENT IN THE STRUCTURE.	Y	PERIODIC
WALL LOCATIONS	INSPECTION	VERIFY THE WALL LOCATIONS AND THICKNESSES.	Y	PERIODIC
CONTROL JOINTS	INSPECTION	VERIFY THE PROPER INSTALLATION OF CONTROL JOINTS, TYPE AND LOCATION.	Y	PERIODIC
OPENINGS	INSPECTION	VERIFY THE PROPER INSTALLATION OF STRUCTURAL ELEMENTS AROUND OPENINGS INCLUDING LINTELS, SILL, AND DOOR OR WINDOW JAMBS INCLUDING MASONRY UNIT TYPE AND REINFORCEMENT.	Y	PERIODIC
CONNECTIONS	INSPECTION	VERIFY THE MASONRY IS PROPERLY CONNECTED TO THE SUPPORTING STRUCTURE(S).	Y	PERIODIC
REINFORCING STEEL	INSPECTION	INSPECTION OF REINFORCING STEEL AND PLACEMENT AS FOLLOWS:	Y	PERIODIC
		VERIFY THAT REINFORCEMENT SURFACES ARE FREE OF EXCESS RUST OR OTHER COATINGS THAT MAY ADVERSELY AFFECT BONDING CAPACITY.	Y	PERIODIC
		VERIFY REINFORCING BARS AND HORIZONTAL JOINT REINFORCEMENT FOR COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AS FOLLOWS:	Y	PERIODIC
		MATERIAL GRADE, SIZE, QUANTITY, SPACING, AND LAYERING; BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS; PROPER HOOK TYPE AND LOCATION; SPICE LOCATIONS AND REQUIRED LENGTH OF LAP; PROPER CLEARANCE AND COVER REQUIREMENTS FROM MASONRY SURFACES; SUFFICIENT SPACING BETWEEN REINFORCEMENT FOR GROUT PLACEMENT; VERIFY THAT UNSCHEDULED ADDITIONAL REINFORCING BARS SHOWN ON PLAN, IN DETAILS, OR SPECIFIED IN NOTES ARE PROVIDED AND ARE IN COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
		GROUT BAG MIX. VERIFY THAT THE GROUT IS MIXED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.	Y	PERIODIC
		READY-MIX GROUT. VERIFY THE MIX NUMBER AND GROUT STRENGTH.	Y	PERIODIC
		PRIOR TO ANY GROUTING PROCEDURE, INSPECT THE GROUT SPACE TO VERIFY THAT IT IS CLEAN AND THAT CLEANOUTS, IF REQUIRED, ARE IN PLACE AND CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.	Y	PERIODIC
		VERIFY THE PROPER GROUT PLACEMENT AND CONSOLIDATION.	Y	PERIODIC
		VERIFY THAT GROUT TESTING IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
		PROTECTION	INSPECTION	VERIFY THE PROPER CONSTRUCTION TECHNIQUES ARE FOLLOWED FOR PROTECTION OF MASONRY DURING HOT-WEATHER AND/OR COLD-WEATHER CONSTRUCTION.
MORTAR AND GROUT	INSPECTION	INSPECT EMBEDDED ITEMS TO BE CAST IN MASONRY PRIOR TO PLACEMENT OF GROUT FOR SIZE, QUANTITY, LOCATION, POSITION AND EMBEDMENT. INSPECT DURING PLACEMENT FOR PROPER GROUT CONSOLIDATION EMBEDDED ITEMS.	Y	PERIODIC
MORTAR AND GROUT	INSPECTION	INSPECT THE MORTAR AND GROUT USED ON THE PROJECT AS FOLLOWS:	Y	PERIODIC
		VERIFY THAT MORTAR AND GROUT MATERIALS COMPLY WITH THE CONTRACT DOCUMENTS AND APPROVED SUBMITTALS.	Y	PERIODIC
		SITE-MIXED MORTAR. VERIFY THE MORTAR IS MIXED IN ACCORDANCE WITH SPECIFIED PROPORTIONS.	Y	PERIODIC
		BAG-MIX MORTAR. VERIFY THE MORTAR IS MIXED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.	Y	PERIODIC
		VERIFY PROPER MORTAR PLACEMENT.	Y	PERIODIC
		GROUT BAG MIX. VERIFY THAT THE GROUT IS MIXED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.	Y	PERIODIC
		READY-MIX GROUT. VERIFY THE MIX NUMBER AND GROUT STRENGTH.	Y	PERIODIC
		PRIOR TO ANY GROUTING PROCEDURE, INSPECT THE GROUT SPACE TO VERIFY THAT IT IS CLEAN AND THAT CLEANOUTS, IF REQUIRED, ARE IN PLACE AND CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.	Y	PERIODIC
		VERIFY THE PROPER GROUT PLACEMENT AND CONSOLIDATION.	Y	PERIODIC
		VERIFY THAT GROUT TESTING IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - STEEL CONSTRUCTION

REFERENCED STANDARDS PER IBC, CHAPTER 17						
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY		
FABRICATOR QUALITY CONTROL PROCESS	INSPECTION	VERIFY THE FABRICATOR MEETS AISC CERTIFIED FABRICATOR REQUIREMENT LISTED IN THE PROJECT CONTRACT DOCUMENTS.	Y	ONE-TIME		
QUALITY	INSPECTION	VISUALLY INSPECT STEEL AS IT IS RECEIVED FOR POSSIBLE DAMAGE IN SHIPPING, WORKMANSHIP, AND PIECE MARKING.	Y	PERIODIC		
MILL TEST REPORTS	INSPECTION	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH-STRENGTH BOLTS, NUTS AND WELDING ELECTRODES.	N	PERIODIC		
WELDED CONNECTIONS	INSPECTION	INSPECT FIELD WELDED CONNECTIONS AS FOLLOWS:	Y	CONTINUOUS		
		INSPECT 100% OF COMPLETE JOINT PENETRATION FIELD WELDS. ULTRASONIC TESTING OF ALL COMPLETE PENETRATIONS WELDS.	Y	CONTINUOUS		
		INSPECT 100% OF PARTIAL JOINT PENETRATION FIELD WELDS.	Y	CONTINUOUS		
		INSPECT 100% OF MULTIPASS FILLET FIELD WELDS.	Y	CONTINUOUS		
		INSPECT 100% OF FILLET FIELD WELDS IN LATERAL-LOAD-RESISTING BRACED FRAMES AND MOMENT FRAMES.	Y	CONTINUOUS		
		INSPECT 10% OF OTHER FILLET FIELD WELDS.	Y	PERIODIC		
		PERFORM PRE-WELDING INSPECTIONS TO VERIFY THAT MATERIALS (I.E. STRUCTURAL STEEL, WELD FILLER MATERIAL, ETC.), WELDING PROCEDURES, AND WELDING PERSONNEL QUALIFICATIONS ARE APPROPRIATE.	Y	PERIODIC		
		VISUALLY INSPECT FIELD WELDS ACCORDING TO AWS D1.1/D1.1M.	Y	PERIODIC		
		VERIFY WELDING PROCEDURES ARE IN ACCORDANCE WITH AWS REQUIREMENTS.	Y	PERIODIC		
		INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BETWEEN PASSES.	Y	PERIODIC		
BOLTED CONNECTIONS	INSPECTION	VERIFY SIZE AND LENGTH OF FILLET WELDS.	Y	PERIODIC		
		VERIFY THAT WELDS ARE CLEAN, WELDER IDENTIFICATION IS LEGIBLE, SIZE, LENGTH AND LOCATION OF WELDS, VERIFY THAT WELDS MEET ACCEPTANCE CRITERIA, PLACEMENT OF REINFORCEMENT FILLETS, REMOVAL OF BACKING BARS AND WELD TABS AS REQUIRED, AND REPAIR ACTIVITIES.	Y	PERIODIC		
		INSPECT BOLTED CONNECTIONS AS FOLLOWS:	N	CONTINUOUS		
		INSPECT 100% OF ALL PRE-TENSIONED AND SLIP-CRITICAL BOLTED CONNECTIONS.	Y	PERIODIC		
		INSPECT 100% OF BOLTED CONNECTIONS IN LATERAL-LOAD-RESISTING BRACED FRAMES AND MOMENT FRAMES.	Y	PERIODIC		
		INSPECT 20% OF ALL OTHER BOLTED CONNECTIONS.	Y	PERIODIC		
		FOR SLIP-CRITICAL BOLTED CONNECTIONS, VERIFY INSTALLATION IS PERFORMED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:	N	CONTINUOUS		
		TURN-OF-NUT. ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."	N	CONTINUOUS		
		CALIBRATED WRENCH. ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."	N	CONTINUOUS		
		TWIST-OFF TENSION CONTROL BOLT. ASTM F 1852.	N	CONTINUOUS		
MEMBERS SIZES AND GRADE	INSPECTION	DIRECT-TENSION CONTROL BOLT. ASTM F 1852.	N	CONTINUOUS		
		FOR ALL BOLTED CONNECTIONS, VERIFY QUANTITY, SIZE AND GRADE OF BOLTS, REQUIRED SURFACE PREPARATION AND PROPER FIT-UP OF CONNECTED ELEMENTS.	Y	PERIODIC		
		VERIFY THAT STEEL MEMBER SIZES AND STEEL GRADE CONFORM TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC		
		INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING MEMBER CONFIGURATION AND CONNECTION DETAILS AS FOLLOWS:	Y	PERIODIC		
		CHECK THE INSTALLATION OF BASE PLATES FOR PROPER LEVELING AND VERIFY PROPER GROUT TYPE AND INSTALLATION PROCEDURES ARE FOLLOWED.	Y	PERIODIC		
		INSPECT 100% OF BEAM AND GIRDER CONSTRUCTION AND ASSEMBLIES.	Y	PERIODIC		
		INSPECT 100% OF ALL BRACED FRAME AND MOMENT FRAME ASSEMBLIES.	Y	CONTINUOUS		
		INSPECT 100% OF THE COLUMN SPICES AND BASE JOINTS FOR VERIFICATION THAT GAPS IN CONTACT BEARING DO NOT EXCEED 1/16 INCH. GAPS GREATER THAN 1/16 INCH SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR ASSESSMENT.	Y	CONTINUOUS		
		INSPECT COMPOSITE STEEL BEAM SHEAR CONNECTORS AS FOLLOWS:	Y	CONTINUOUS		
		OBSERVE THE WELDING OF SHEAR CONNECTORS. INSPECT STUDS FOR FULL 360 DEGREE FLASH.	Y	CONTINUOUS		
STEEL FRAMING, DETAILS AND CONNECTORS	INSPECTION	INSPECT SIZE, NUMBER, POSITIONING AND WELDING OF SHEAR CONNECTORS.	Y	CONTINUOUS		
		RING TEST 10% OF SHEAR CONNECTORS WITH A 3 LB HAMMER.	Y	PERIODIC		
		BEND TEST ALL QUESTIONABLE STUDS TO 15 DEGREES.	Y	CONTINUOUS		
		INSPECT STEEL GRATING AS FOLLOWS:	N	PERIODIC		
		VISUALLY INSPECT THE GRATING FOR DAMAGE DURING SHIPPING.	N	PERIODIC		
		VERIFY THAT THE GRATING TYPE, TYPE OR PROPERTIES, AND FINISH COMPLY WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	N	PERIODIC		
		VERIFY ALL GRATING ATTACHMENT TO THE SUPPORTING CONCRETE, STEEL, AND/OR MASONRY AS SPECIFIED IN THE CONTRACT DOCUMENTS AND/OR APPROVED SHOP DRAWINGS.	N	PERIODIC		
		COMPOSITE BEAM SHEAR CONNECTORS	TEST	INSPECT COMPOSITE STEEL BEAM SHEAR CONNECTORS AS FOLLOWS:	Y	CONTINUOUS
		GRATING	INSPECTION	OBSERVE THE WELDING OF SHEAR CONNECTORS. INSPECT STUDS FOR FULL 360 DEGREE FLASH.	Y	CONTINUOUS
				INSPECT SIZE, NUMBER, POSITIONING AND WELDING OF SHEAR CONNECTORS.	Y	CONTINUOUS

SPECIAL INSPECTION SERVICES SCHEDULE - FOUNDATION WALLS AND PITS

REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
CONCRETE PLACEMENT	INSPECTION	THE INSPECTOR MUST BE PRESENT FULL TIME DURING THE ENTIRE PLACEMENT OF THE FIRST 2 SHALLOW FOUNDATION CONCRETE POURS AND THEN MUST BE PRESENT AT THE START OF 100% OF OTHER CONCRETE POURS.	Y	PERIODIC
FORMWORK	INSPECTION	VERIFY THAT FORMS ARE PLUMB AND STRAIGHT, BRACED AGAINST MOVEMENT, AND LUBRICATED FOR REMOVAL.	Y	PERIODIC
DIMENSIONS	INSPECTION	VERIFY WALL FIT DIMENSIONS.	Y	PERIODIC
EMBEDDED ITEMS	INSPECTION	VERIFY ANCHOR RODS AND/OR DOWELS ARE INSTALLED WITH THE EMBEDMENT AND PROJECTED LENGTHS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
REINFORCEMENT	INSPECTION	VERIFY PIT WALL REINFORCEMENT PRIOR TO PLACEMENT OF CONCRETE.	Y	PERIODIC
WATERSTOPS	INSPECTION	VERIFY WATER STOPS ARE PROPERLY INSTALLED AND ANCHORED INTO POSITION PRIOR TO PLACEMENT OF CONCRETE.	Y	PERIODIC
BACKFILL OPERATIONS	INSPECTION	VERIFY THAT FOUNDATION AND PIT WALLS WITH UNEVEN BACKFILL CONDITIONS ARE NOT BACKFILLED UNTIL FLOOR CONSTRUCTION AT TOP OF WALL IS COMPLETE OR TEMPORARY BRACING IS PROVIDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
CONCRETE	INSPECTION	VERIFY CONCRETE PLACEMENT AS OUTLINED IN THIS INSPECTION PLAN.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - SHALLOW FOUNDATIONS

REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
CONCRETE PLACEMENT	INSPECTION	THE INSPECTOR MUST BE PRESENT FULL TIME DURING THE ENTIRE PLACEMENT OF THE FIRST 2 SHALLOW FOUNDATION CONCRETE POURS AND THEN MUST BE PRESENT AT THE START OF 100% OF OTHER CONCRETE POURS.	Y	PERIODIC
FOOTING SUBGRADE	INSPECTION	VERIFY APPROVAL OF THE FOOTING SUBGRADE PRIOR TO PLACEMENT OF FOUNDATION CONCRETE.	Y	PERIODIC
FORMWORK	INSPECTION	VERIFY THAT FORMS ARE PLUMB AND STRAIGHT, BRACED AGAINST MOVEMENT, AND LUBRICATED FOR REMOVAL.	Y	PERIODIC
EARTH-FORMED FOUNDATION	INSPECTION	FOR EARTH-FORMED FOUNDATIONS, VERIFY THAT EARTH FORMS ARE SUFFICIENTLY UNIFORM TO ALLOW FOR PROPER DIMENSIONS AND REQUIRED CONCRETE COVER OVER REINFORCEMENT.	Y	PERIODIC
DIMENSIONS	INSPECTION	VERIFY FOUNDATION DIMENSIONS.	Y	PERIODIC
EMBEDDED ITEMS	INSPECTION	VERIFY ANCHOR RODS AND/OR DOWELS ARE INSTALLED WITH THE EMBEDMENT AND PROJECTED LENGTHS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
REINFORCEMENT	INSPECTION	VERIFY FOUNDATION REINFORCEMENT PRIOR TO PLACEMENT OF CONCRETE.	Y	PERIODIC
CONCRETE	INSPECTION	VERIFY CONCRETE PLACEMENT AS OUTLINED IN THIS INSPECTION PLAN.	Y	PERIODIC

SPECIAL INSPECTION
THE CONTRACTOR SHALL EMPLOY INDEPENDENT AGENCY(IES) OR INDIVIDUAL(S) TO PROVIDE SPECIAL INSPECTION FOR ITEMS AS INDICATED ON THE DRAWINGS.

SPECIAL INSPECTION IS A MANDATORY

PRESCRIPTIVE LINTEL SCHEDULE

GENERAL NOTE: PROVIDE LINTELS IN THIS SCHEDULE FOR MASONRY OPENINGS WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED. WHERE A SPECIFIC LINTEL (L#) IS INDICATED FOR A PARTICULAR OPENING, PROVIDE THE SPECIFIC LINTEL (L#). FOR OPENINGS BEYOND THE LIMITS AND/OR MATERIALS IDENTIFIED IN THIS SCHEDULE WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED, CONTACT THE STRUCTURAL ENGINEER FOR REQUIRED LINTEL SIZE AND TYPE.

SECTION	CLEAR OPENING	TYPE	NOTES
4W x 8H (NOMINAL) PRECAST	UP TO 6'-0"	PLA	4" CMU
W x 8 H (NOMINAL) CMU	UP TO 4'-0"	PLB	6", 8", 10", 12" CMU
W x 16 H (NOMINAL) CMU	>4'-0" UP TO 8'-0"	PLB	6", 8", 10", 12" CMU
W x 24 H (NOMINAL) CMU	>6'-0" UP TO 8'-0"	PLB	6", 8", 10", 12" CMU
L3 1/2 x 3 1/2 x 5/16	UP TO 4'-0"	PLC	4" MASONRY VENEER
L5 x 3 1/2 x 5/16 (LLV)	>4'-0" UP TO 6'-0"	PLC	4" MASONRY VENEER
L6 x 3 1/2 x 5/16 (LLV)	>6'-0" UP TO 8'-0"	PLC	4" MASONRY VENEER

TYPES:

PRESCRIPTIVE LINTEL SCHEDULE NOTES:

- ALL LINTELS BEAR 0'-8" ONTO SUPPORTING WALLS, UNO.
- ALL STEEL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

WALL FOOTING SCHEDULE

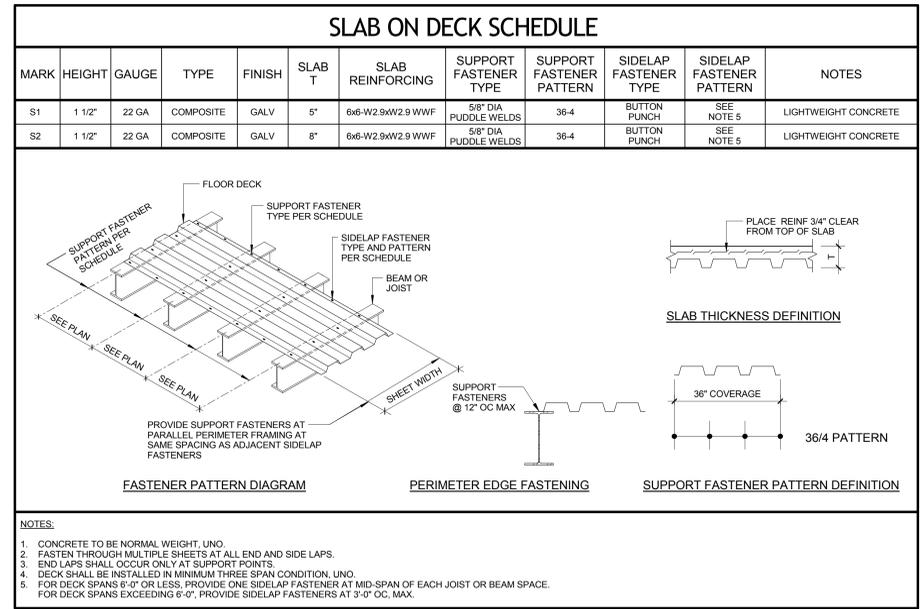
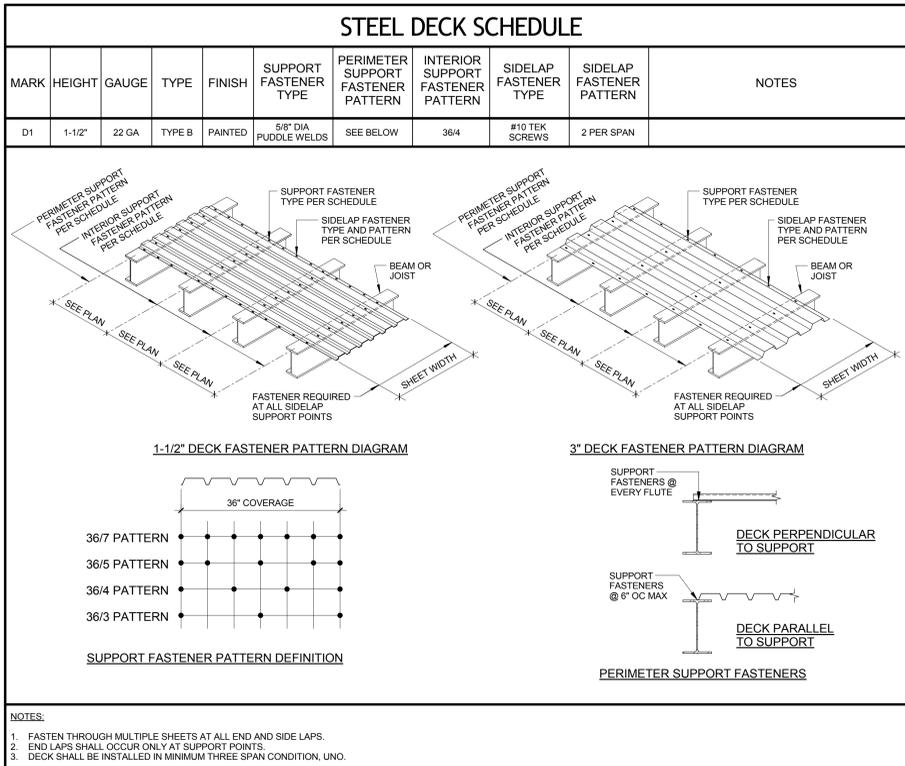
MARK	SIZE (W x D)	FTG REINF	REMARKS
WF36	3'-0" x 1'-0"	(3) #5 CONT	EMBED REINF 6" INTO ADJ FTG W/ EPOXY

CONCRETE MIX SCHEDULE

CONCRETE USAGE	28-DAY COMPRESSIVE STRENGTH (PSI)	MINIMUM CEMENTITIOUS MATLS (LB/CYD)	MAX CEMENT REPLACEMENT (NOTE 3)	MAXIMUM W/CM RATIO	AIR CONTENT (PERCENT)	MAXIMUM AGGREGATE SIZE (INCHES)	NOTES
FOOTINGS	3,000	423	20%	0.55	0-3	1.5	
MASS CONC (MIN DIMENSIONS > 4 FEET)	4,000	470	20%	0.50	0-3	1.5	USE OF GRANULATED BLAST FURNACE SLAG AT A REPLACEMENT OF UP TO 40% IS ALLOWED.
GRADE BEAMS, PIERS, FOUNDATION WALLS	4,000	470	20%	0.50	0-3	1	
SLABS ON GRADE (6 INCHES OR LESS)	4,000	470	20%	0.48	0-3	1	
SLABS ON METAL DECK	4,000	470	20%	0.48	0-3	1	
LIGHTWEIGHT SLABS ON METAL DECK	4,000	470	N/A	0.48	6 +/- 1	1	

NOTES:

- SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL CONCRETE IS NORMAL WEIGHT AND CEMENT IS ASTM C150 TYPE 1 UNO. DO NOT USE LIGHTWEIGHT CONCRETE UNLESS SPECIFICALLY INDICATED.
- ACCEPTABLE CEMENT REPLACEMENT MATERIAL, WHERE PERMITTED, SHALL BE FLY ASH, ASTM C618 TYPE C OR F, UNO.
- TARGET SLUMP SHALL BE DETERMINED BY THE CONTRACTOR AS NEEDED FOR PROPER PLACEMENT.
- WHERE NOTED, BLENDED AGGREGATE WITH ZONE 2 COMMERSESS PER ACI 302 IS MANDATORY.



DBA SCHEDULE

COLUMN	DBA LAYOUT	BEAM END STIFFENER PLATES REQUIRED
A7	(1) BEAM W/ (1) ROW OF (1)	
A16	(1) BEAM W/ (2) ROWS OF (3)	
A22	(1) BEAM W/ (5) ROWS OF (3)	YES
A24	(1) BEAM W/ (5) ROWS OF (3)	YES
C7	(2) BEAMS W/ (2) ROWS OF (3)	
C9	(1) BEAM W/ (1) ROW OF (3)	
C11	(2) BEAMS W/ (2) ROWS OF (3)	
C14	(1) BEAM W/ (5) ROWS OF (3)	YES
C16	(1) BEAM W/ (1) ROW OF (1)	
C24	(2) BEAM W/ (3) ROWS OF (3)	
E24	(2) BEAMS W/ (1) ROWS OF (3)	
F24	(1) BEAM W/ (4) ROWS OF (3)	YES
G7	(2) BEAMS W/ (3) ROWS OF (3)	
H16	(1) BEAM W/ (1) ROW OF (3)	
J14	(1) BEAM W/ (4) ROWS OF (3)	
J15	(1) BEAM W/ (4) ROWS OF (3)	
J16	(2) BEAMS W/ (2) ROWS OF (3)	
J19	(1) BEAM W/ (4) ROWS OF (3)	YES
J21	(1) BEAM W/ (4) ROWS OF (3)	YES

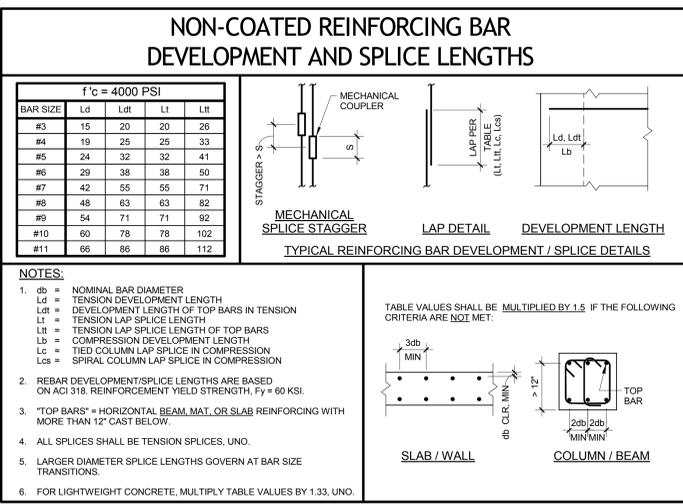
SLAB ON METAL DECK FLATNESS SCHEDULE

CLASSIFICATION	OVERALL	MIN LOCAL
CONVENTIONAL	FF	FF
MODERATELY FLAT	20	15
FLAT	25	20
VERY FLAT	35	25
SUPER FLAT	45	35
SUPER FLAT	60	40

FLOOR TYPE / LOCATION	REQUIRED SLAB
EXPOSED WAREHOUSE, MANUFACTURING AREAS, UNO	FLAT
EXPOSED UTILITY/MECHANICAL AREAS, UNO	MODERATELY FLAT
FLOORS WITH CARPET, VCT FINISH, UNO	MODERATELY FLAT
TILE UP TO 16' LONG DIMENSION, >=14" GROUT JOINTS	FLAT
TILE UP TO 16' LONG DIMENSION, 3/16" GROUT JOINTS	VERY FLAT
TILE UP TO 16' LONG DIMENSION, 1/8" GROUT JOINTS	SUPER FLAT
TILE >16' TO <36' LONG DIMENSION, >=14" GROUT JOINTS	VERY FLAT
TILE >16' TO <36' LONG DIMENSION, <14" GROUT JOINTS	SUPER FLAT
TILE >36' LONG DIMENSION	SUPER FLAT

NOTES:

- GENERAL CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS FOR THE PROJECT AND PROVIDE CONCRETE SLAB SURFACE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS. WHERE TOLERANCES FOR THE FLOOR FINISH MATERIALS DIFFER FROM THIS SCHEDULE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- GENERAL CONTRACTOR SHALL COORDINATE WITH THE FINISH FLOORING SUPPLIER TO PROVIDE ALL NECESSARY REPAIR, GRINDING, AND / OR LEVELING OF THE CONCRETE SLAB TO ACCOMMODATE ALL FLOOR FINISHES PRIOR TO INSTALLATION OF FINISH MATERIALS WITH NO ADDITIONAL COST TO THE PROJECT.



COLUMN FOOTING SCHEDULE

MARK	FTG SIZE (W x L x D)	FTG REINFORCEMENT	REMARKS
F4.0	4'-0" x 4'-0" x 1'-0"	(5) #5 EW BOT	

NOTES:

- ALLOWABLE SOIL BEARING PRESSURE = 4,000 PSF (UNFACTORED)
- FOOTING CONCRETE STRENGTH = 3,000 PSI

MASONRY REINFORCING STEEL LAP SPLICE CHART

BAR	BAR SPLICE LENGTHS			
	UNCOATED BARS TYPE 1.0LD	UNCOATED BARS TYPE 1.5LD	EPOXY-COATED BARS TYPE 1.0LD	EPOXY-COATED BARS TYPE 1.5LD
#3	20"	36"	29"	54"
#4	26"	48"	39"	72"
#5	32"	60"	48"	90"
#6	39"	72"	58"	108"
#7	45"	84"	68"	126"
#8	52"	96"	77"	144"
#9	58"	109"	87"	164"

NOTES:

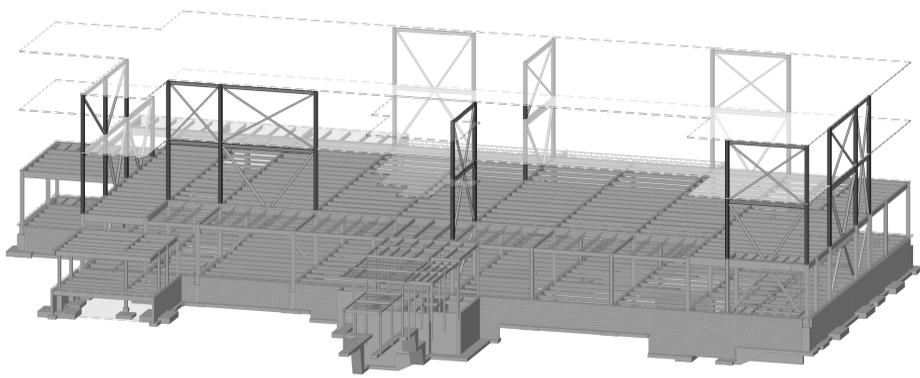
- ALL SPLICES ARE TYPE 1.0LD, UNO.
- BAR SIZE #9 AND LARGER ARE REQUIRED TO BE SPLICED BY MECHANICAL CONNECTORS, UNO.
- SPLICES BASED ON Fy = 33,000 PSI AND Fm = 1500 PSI.
- ALL BARS ARE UNCOATED, UNO.

CMU WALL REINFORCEMENT SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT	REMARKS
W1	8	#5 @ 24" OC	

NOTES:

- SEE THE STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED HORIZONTAL (BOND BEAM AND JOINT) REINFORCEMENT AND REQUIRED ADDITIONAL VERTICAL REINFORCEMENT.
- PROVIDE MATCHING HOOKED DOWELS INTO THE FOUNDATION FOR ALL VERTICAL REINFORCEMENT. GROUT SOLID ALL CELLS CONTAINING VERTICAL REINFORCEMENT.



1 ASSUMED FUTURE VERTICAL EXPANSION

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Project Number: 16-198
 Scale: AS INDICATED

Office of Construction and Facilities Management

Location: **MARION VAMC MARION, IL, 62959**

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Raleigh, NC
 Indianapolis, IN
 Pittsburgh, PA
 Virginia Beach, VA
 Fort Collins, CO

Drawing Title: **SCHEDULES**

Location: **MARION VAMC MARION, IL, 62959**

U.S. Department of Veterans Affairs

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

Date: 09/06/17

Checked: DGC

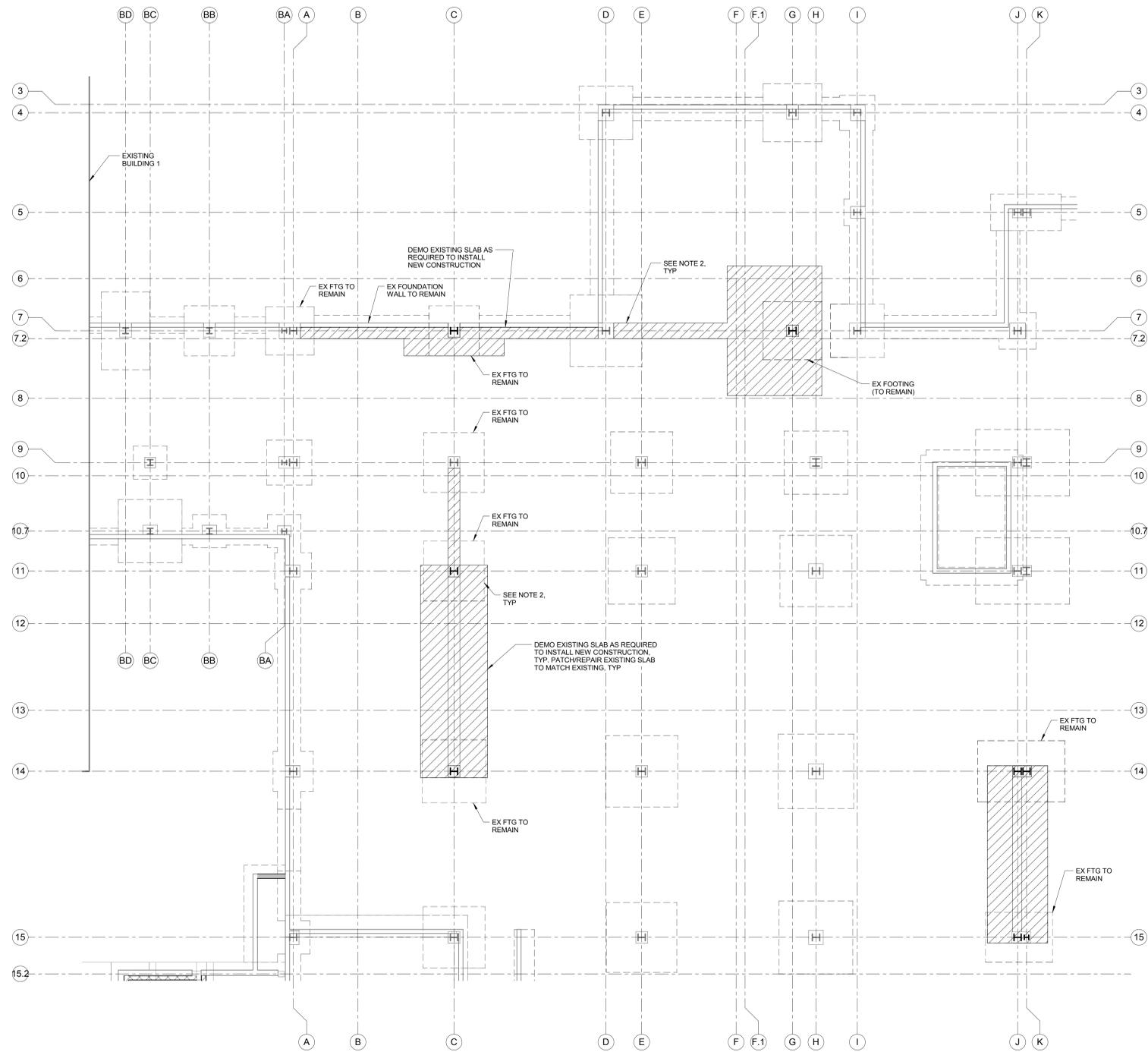
Drawn: JHC

VA PROJECT NUMBER: 657-343

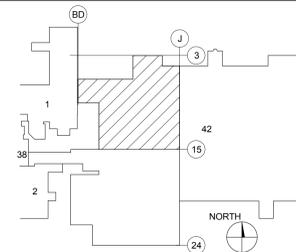
Building Number: 42

Drawing Number: **SS-004**

Dwg. 4 of 28



COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION/PHASING DOCUMENTS FOR APPROVAL BY THE COR.



100% CONSTRUCTION DOCUMENTS

FOUNDATION DEMOLITION PLAN - NORTH
 1 SD110
 1/8" = 1'-0"
GENERAL PLAN NOTES:
 1. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO BEGINNING DEMOLITION WORK.
 2. CONTRACTOR SHALL VERIFY SLAB CONDITION AT EXISTING FOOTINGS PRIOR TO DEMOLITION. DO NOT CUT EXISTING FOOTINGS.

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 Pittsburgh, PA
 Virginia Beach, VA
 Fort Collins, CO

Project Number 16-198
 Scale AS INDICATED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **FOUNDATION DEMOLITION PLAN - NORTH**

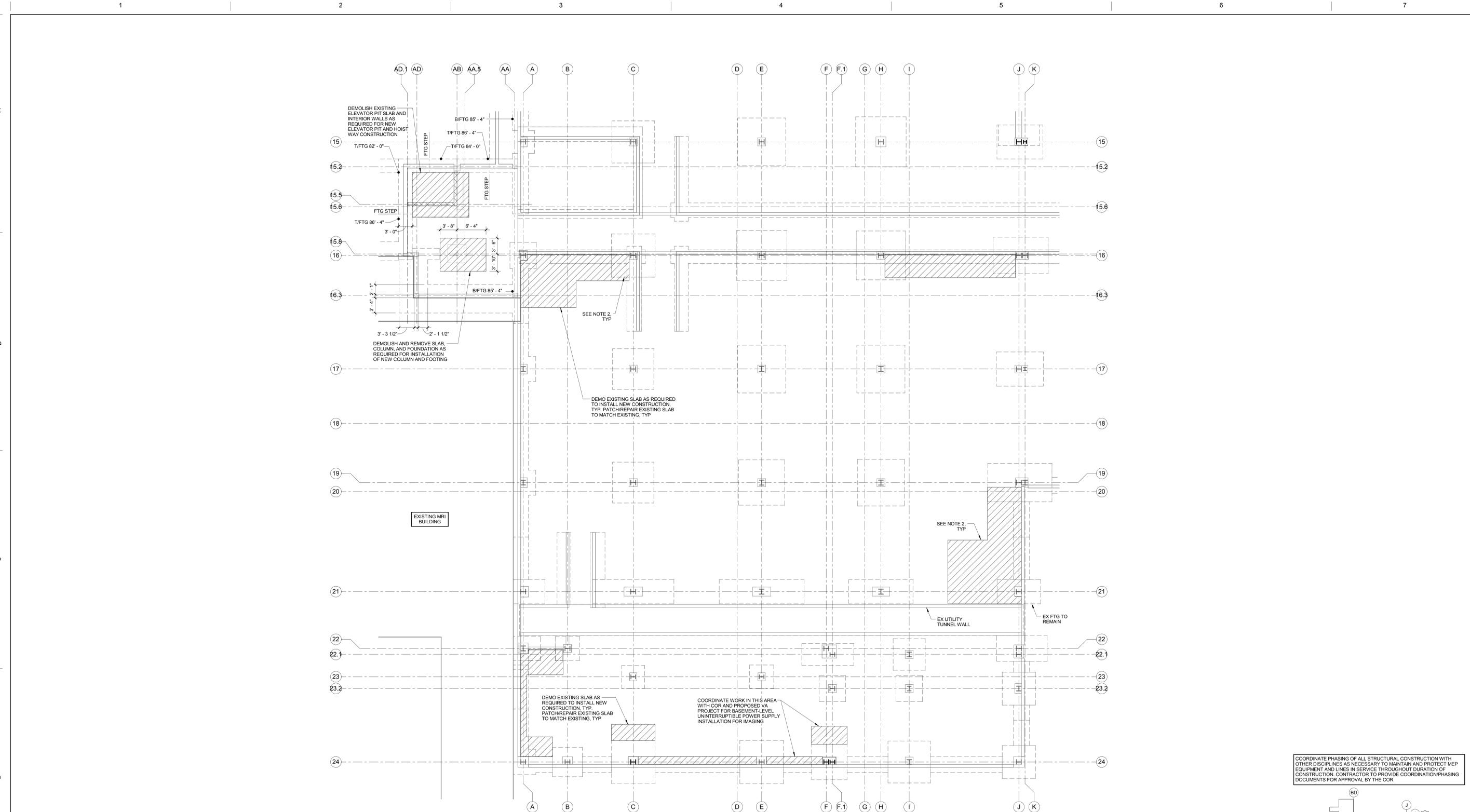
Location: **MARION VAMC
 MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

Date: 09/06/17
 Checked: DCG
 Drawn: JHC

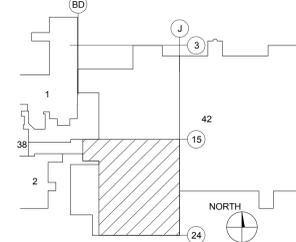
VA PROJECT NUMBER 657-343
 Building Number 42
 Drawing Number **SD110**
 Dwg. 5 of 28



1 SD111 FOUNDATION DEMOLITION PLAN - SOUTH
 1/8" = 1'-0"

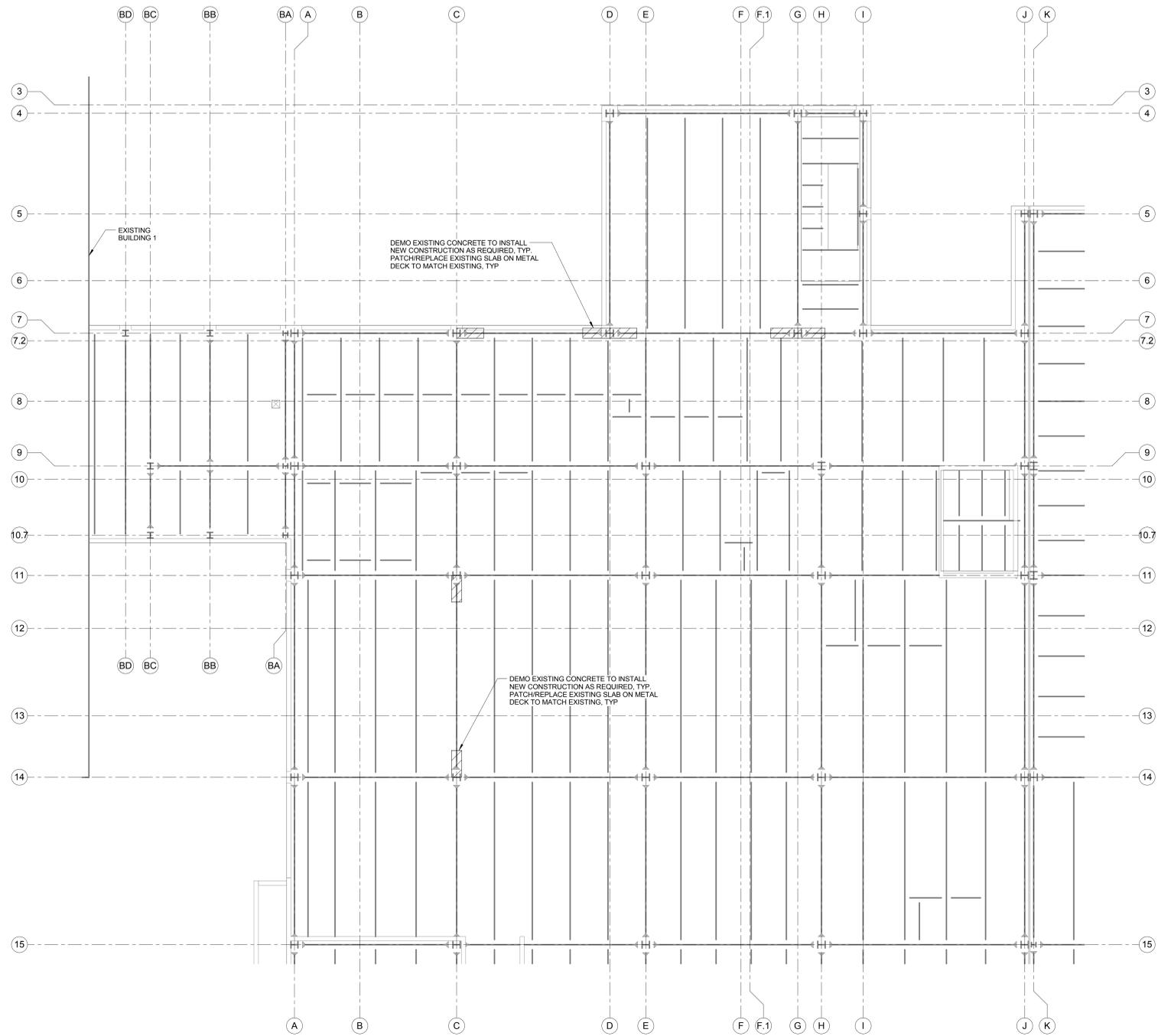
- GENERAL PLAN NOTES:**
- CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO BEGINNING DEMOLITION WORK.
 - CONTRACTOR SHALL VERIFY SLAB CONDITION AT EXISTING FOOTINGS PRIOR TO DEMOLITION. DO NOT CUT EXISTING FOOTINGS.

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION/PHASING DOCUMENTS FOR APPROVAL BY THE COR.



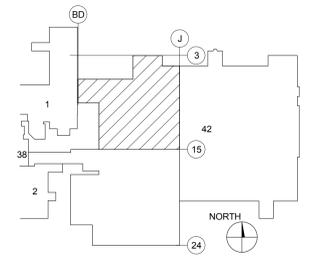
100% CONSTRUCTION DOCUMENTS

Revisions:	Date	CONSULTANTS: Baysinger Design Group, Inc. 1311 West 12th Street, Suite 100B Mason, Illinois 62450 Phone: 618.990.8815 Fax: 618.990.8812 Email: info@baysingerdesign.com www.baysingerdesign.com	 AMERICAN STRUCTUREPOINT INC. 7260 Shadeland Station, Indianapolis, IN 46256 Tel: 317.551.5500 Fax: 317.551.5270 www.structurepoint.com	 PROJECT MANAGER: DONALD G. CORSON DONALD G. CORSON 084-007941 STATE OF ILLINOIS	PROJECT MANAGER: Raleigh, NC Indianapolis, IN Pittsburgh, PA Virginia Beach, VA Fort Collins, CO APOGEE Consulting Group Engineers Architects www.acgp.com 919-858-7420	Project Number 16-198 Scale AS INDICATED	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title: FOUNDATION DEMOLITION PLAN - SOUTH		Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42		VA PROJECT NUMBER 657-343	
								Location: MARION VAMC MARION, IL, 62959		Approved: Project Director Date: 09/06/17 Checked: DCG Drawn: JHC		Building Number 42	



1
SD210
GROUND FLOOR FRAMING DEMOLITION PLAN - NORTH
1/8" = 1'-0"

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION/PHASING DOCUMENTS FOR APPROVAL BY THE COR.



100% CONSTRUCTION DOCUMENTS

Revisions:	Date

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PROJECT MANAGER:

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www.acgp-ga.com
919-858-7420

Raleigh, NC
Indianapolis, IN
Pittsburgh, PA
Virginia Beach, VA
Fort Collins, CO

Project Number: 16-198
Scale: AS INDICATED

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title:
GROUND FLOOR FRAMING DEMOLITION PLAN

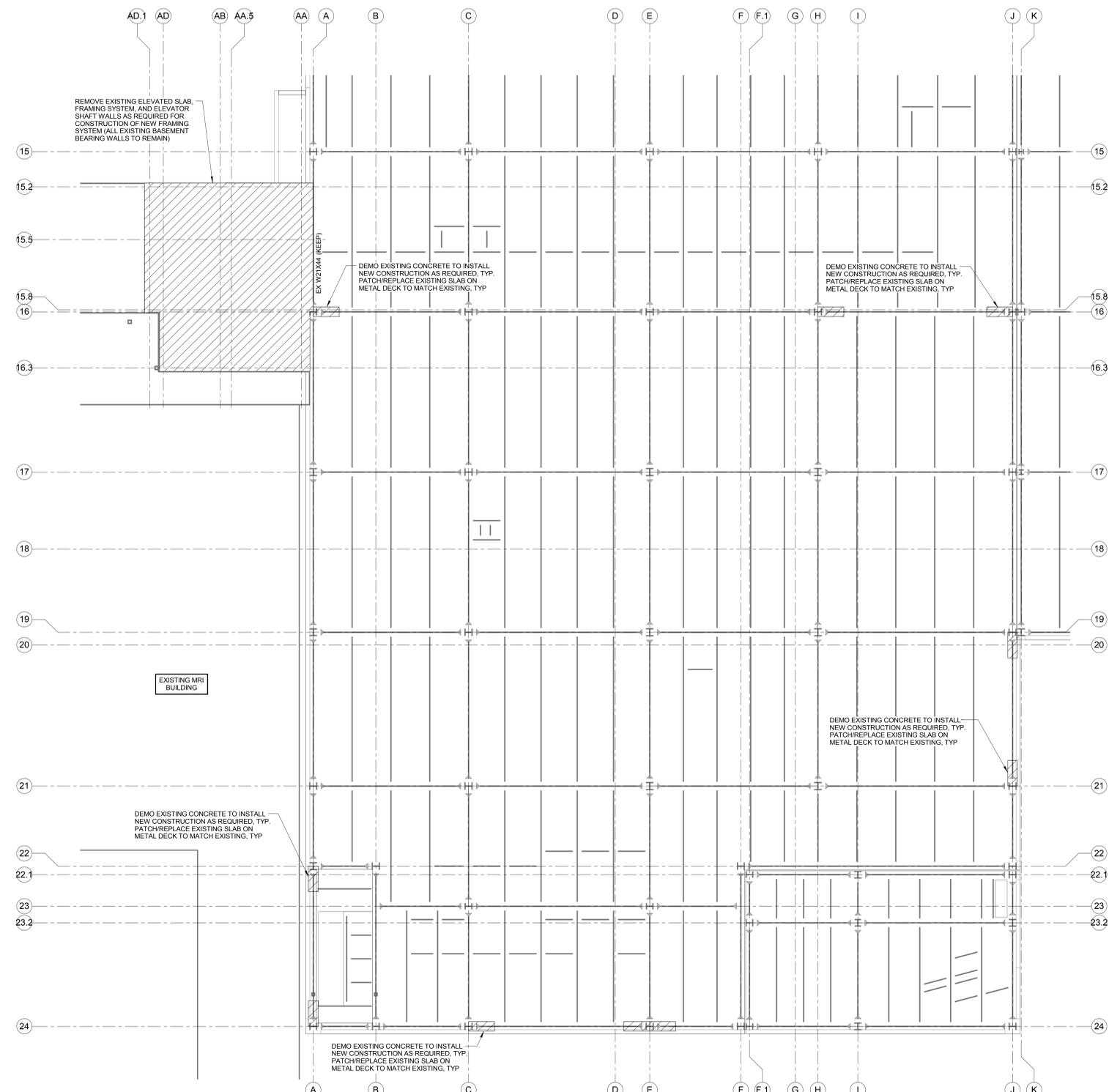
Location:
**MARION VAMC
MARION, IL, 62959**

Project Title:
ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42

Approved: Project Director

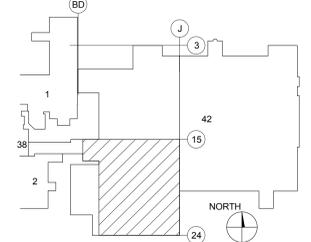
Date: 09/06/17
Checked: DCG
Drawn: JHC

VA PROJECT NUMBER: 657-343
Building Number: 42
Drawing Number: **SD210**
Dwg. 7 of 28



1 SD211 1/8" = 1'-0" **GROUND FLOOR FRAMING DEMOLITION PLAN - SOUTH**

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION PHASING DOCUMENTS FOR APPROVAL BY THE COR.



100% CONSTRUCTION DOCUMENTS

Revisions:	Date

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REGISTERED STRUCTURAL ENGINEER
 DONALD G. CORSON
 084-007841
 STATE OF ILLINOIS

PROJECT MANAGER:

Raleigh, NC
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 Fort Collins, CO

Project Number 16-198
 Scale AS INDICATED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **GROUND FLOOR FRAMING DEMOLITION PLAN**

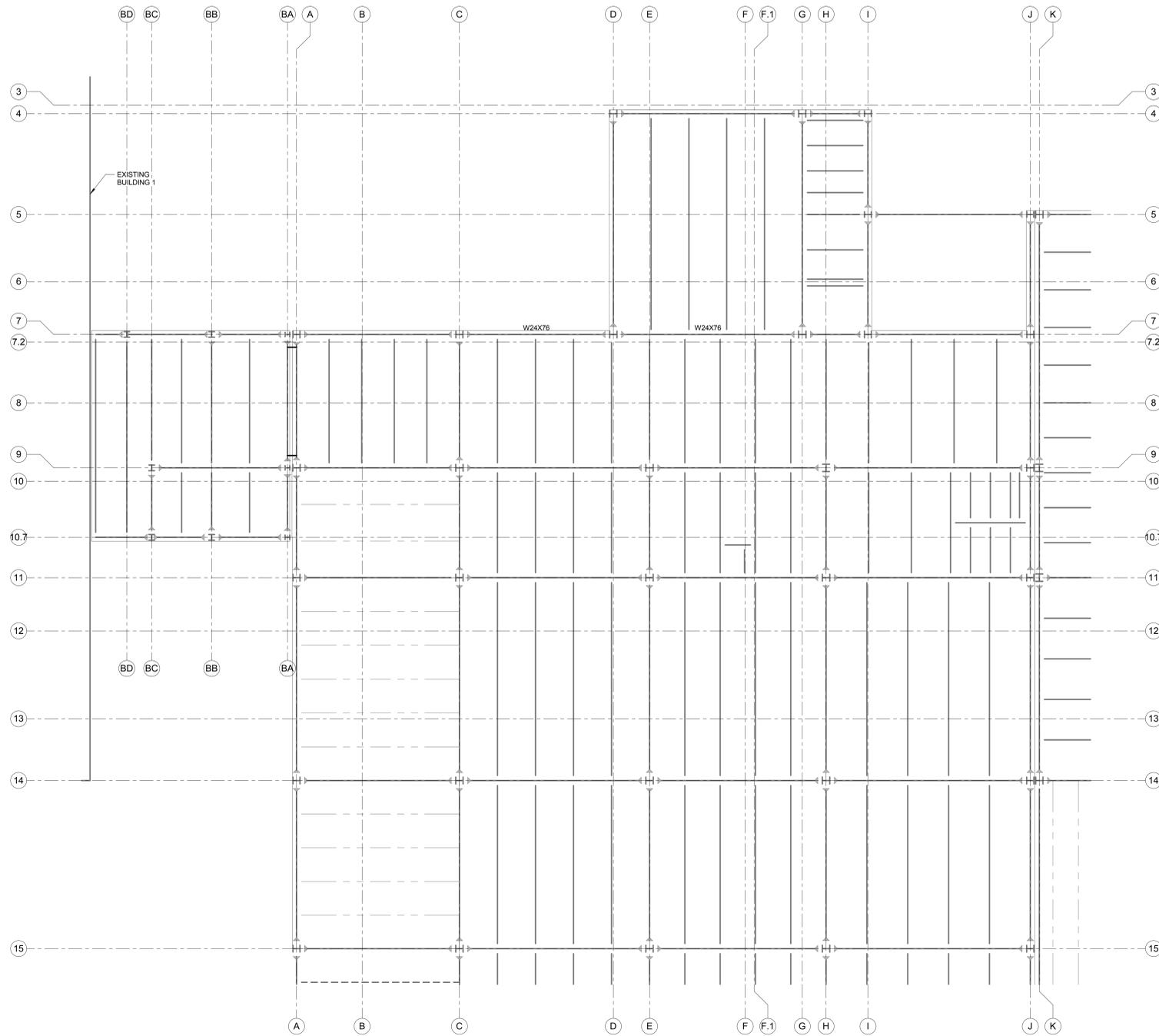
Location: **MARION VAMC MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

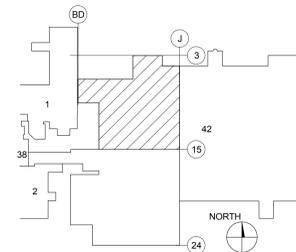
Date: 09/06/17
 Checked: DCG
 Drawn: JHC

VA PROJECT NUMBER 657-343
 Building Number 42
 Drawing Number **SD211**
 Dwg. 8 of 28



1
SD212
2ND/ROOF FRAMING DEMOLITION PLAN - NORTH
1/8" = 1'-0"

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION PHASING DOCUMENTS FOR APPROVAL BY THE COR.



100% CONSTRUCTION DOCUMENTS

Revisions:	Date

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DONALD G. CORSON
084-007641
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Virginia Beach, VA
Fort Collins, CO

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title:
2ND FLOOR FRAMING DEMOLITION PLAN

Location:
MARION VAMC
MARION, IL, 62959

Project Title:
ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42

Approved: Project Director

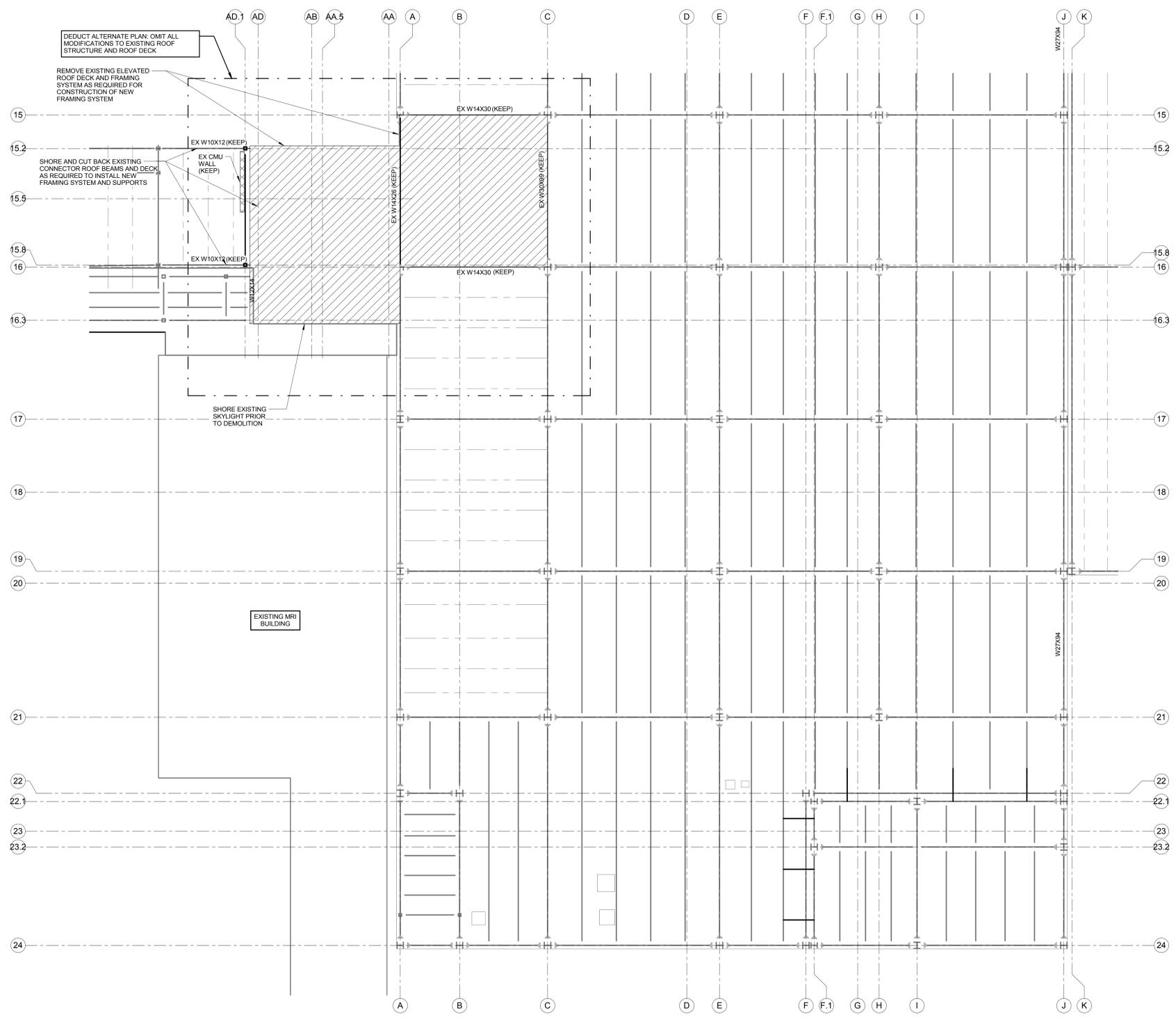
Date	Checked	Drawn
09/06/17	DCG	JHC

VA PROJECT NUMBER:
657-343

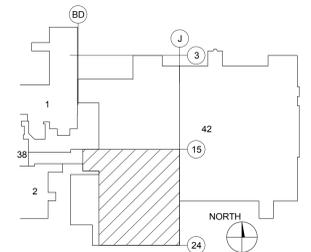
Building Number:
42

Drawing Number:
SD212

Dwg. 9 of 28



COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION/PHASING DOCUMENTS FOR APPROVAL BY THE COR.



2ND/FLOOR FRAMING DEMOLITION PLAN - SOUTH
 1/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS

Revisions:	Date

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Office of Construction and Facilities Management

Drawing Title:
 2ND FLOOR FRAMING DEMOLITION PLAN

Location:
 MARION VAMC
 MARION, IL, 62959

Project Title:
 ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42

Approved: Project Director

Date: 09/06/17

Checked: DCG

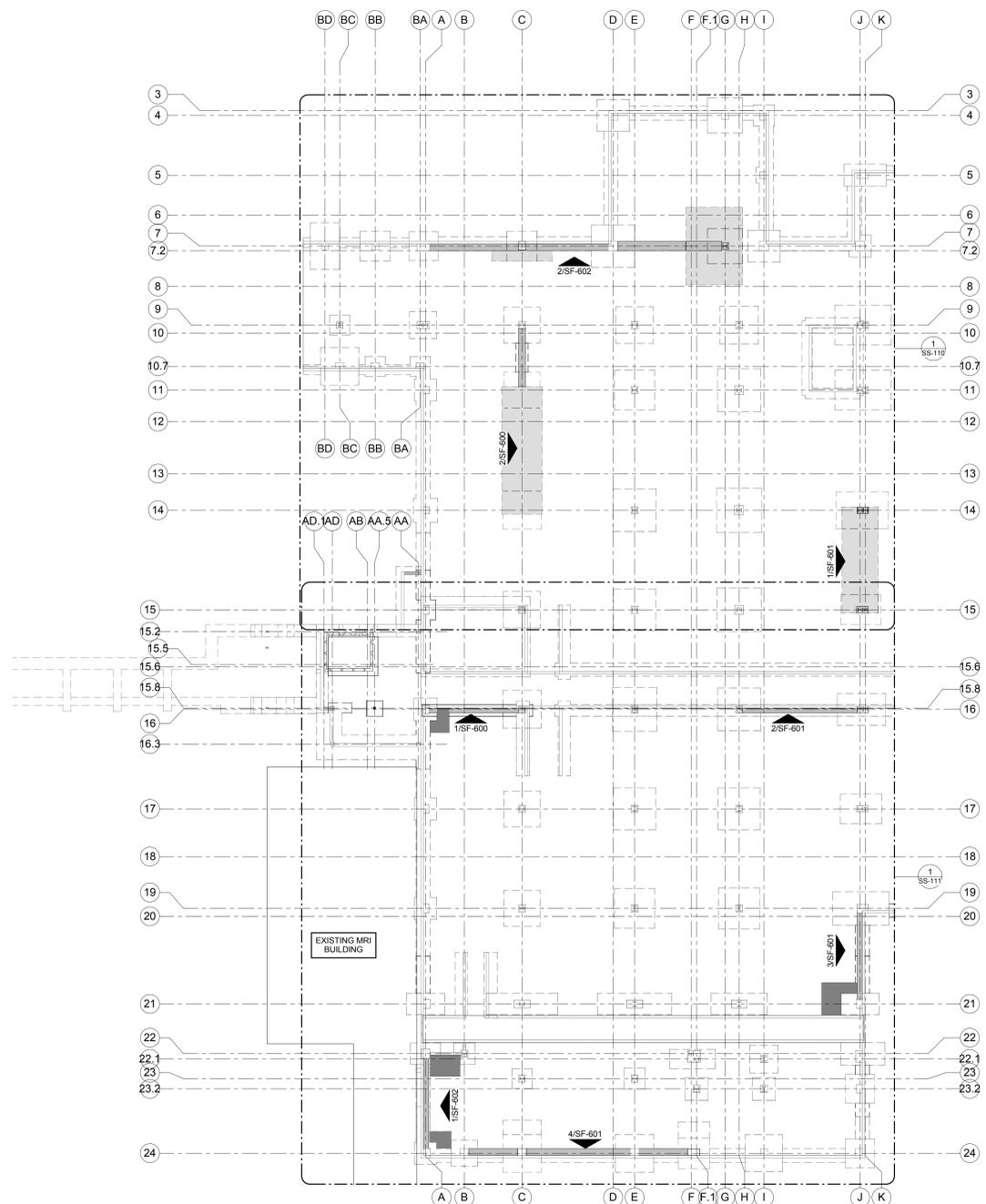
Drawn: JHC

VA PROJECT NUMBER:
 657-343

Building Number:
 42

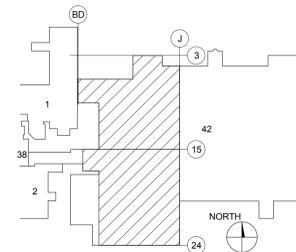
Drawing Number:
SD213

Dwg. 10 of 28



1 SS-100 OVERALL FOUNDATION PLAN
1/16" = 1'-0"

NOTE: STRUCTURAL IMPROVEMENTS FOR LATERAL LOAD RESISTING SYSTEMS APPLY ONLY TO INDICATED AREAS WEST OF THE EXISTING STRUCTURAL EXPANSION JOINT BETWEEN COLUMN LINES J AND K. STRUCTURAL IMPROVEMENTS FOR LATERAL LOAD RESISTING SYSTEMS EAST OF THE EXPANSION JOINT ARE NOT INCLUDED IN THIS PROJECT.



100% CONSTRUCTION DOCUMENTS

Revisions:	Date

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Virginia Beach, VA
Fort Collins, CO

Project Number 16-198
Scale AS INDICATED

Office of Construction and Facilities Management

Drawing Title: **OVERALL FOUNDATION PLAN**

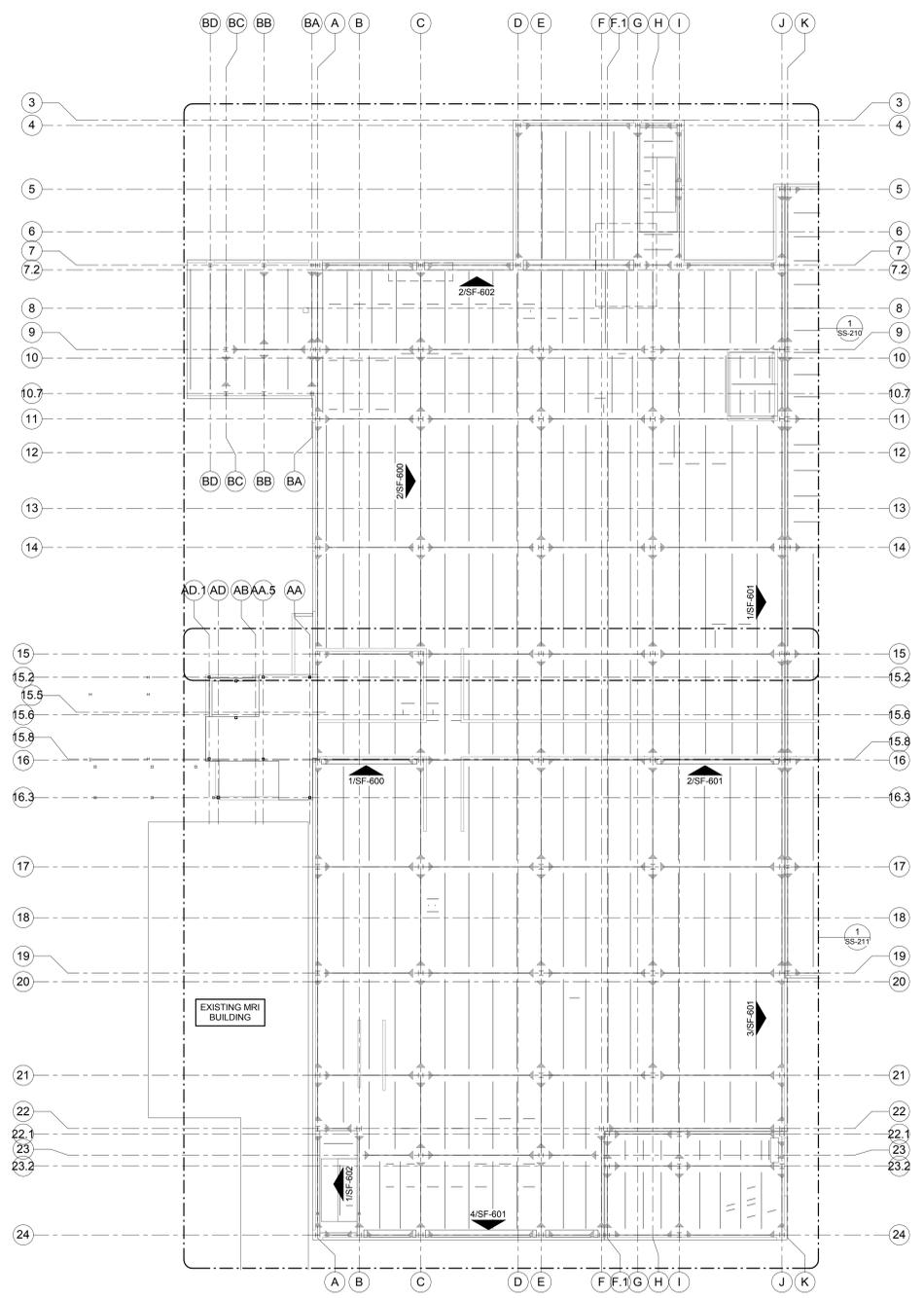
Location: **MARION VAMC
MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

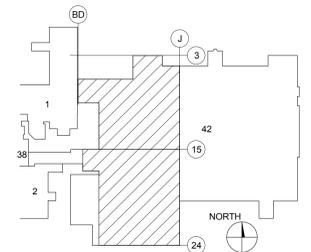
Date: 09/06/17
Checked: DGC
Drawn: JHC

VA PROJECT NUMBER: 657-343
Building Number: 42
Drawing Number: **SS-100**
Dwg. 11 of 28



1 **OVERALL GROUND FLOOR FRAMING PLAN**
 SS-101 1/16" = 1'-0"

NOTE: STRUCTURAL IMPROVEMENTS FOR LATERAL LOAD RESISTING SYSTEMS APPLY ONLY TO INDICATED AREAS WEST OF THE EXISTING STRUCTURAL EXPANSION JOINT BETWEEN COLUMN LINES J AND K. STRUCTURAL IMPROVEMENTS FOR LATERAL LOAD RESISTING SYSTEMS EAST OF THE EXPANSION JOINT ARE NOT INCLUDED IN THIS PROJECT.



100% CONSTRUCTION DOCUMENTS

Revisions:	Date

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Project Number: 16-198
 Scale: AS INDICATED

Office of
 Construction
 and Facilities
 Management

Drawing Title:
OVERALL GROUND FLOOR FRAMING PLAN

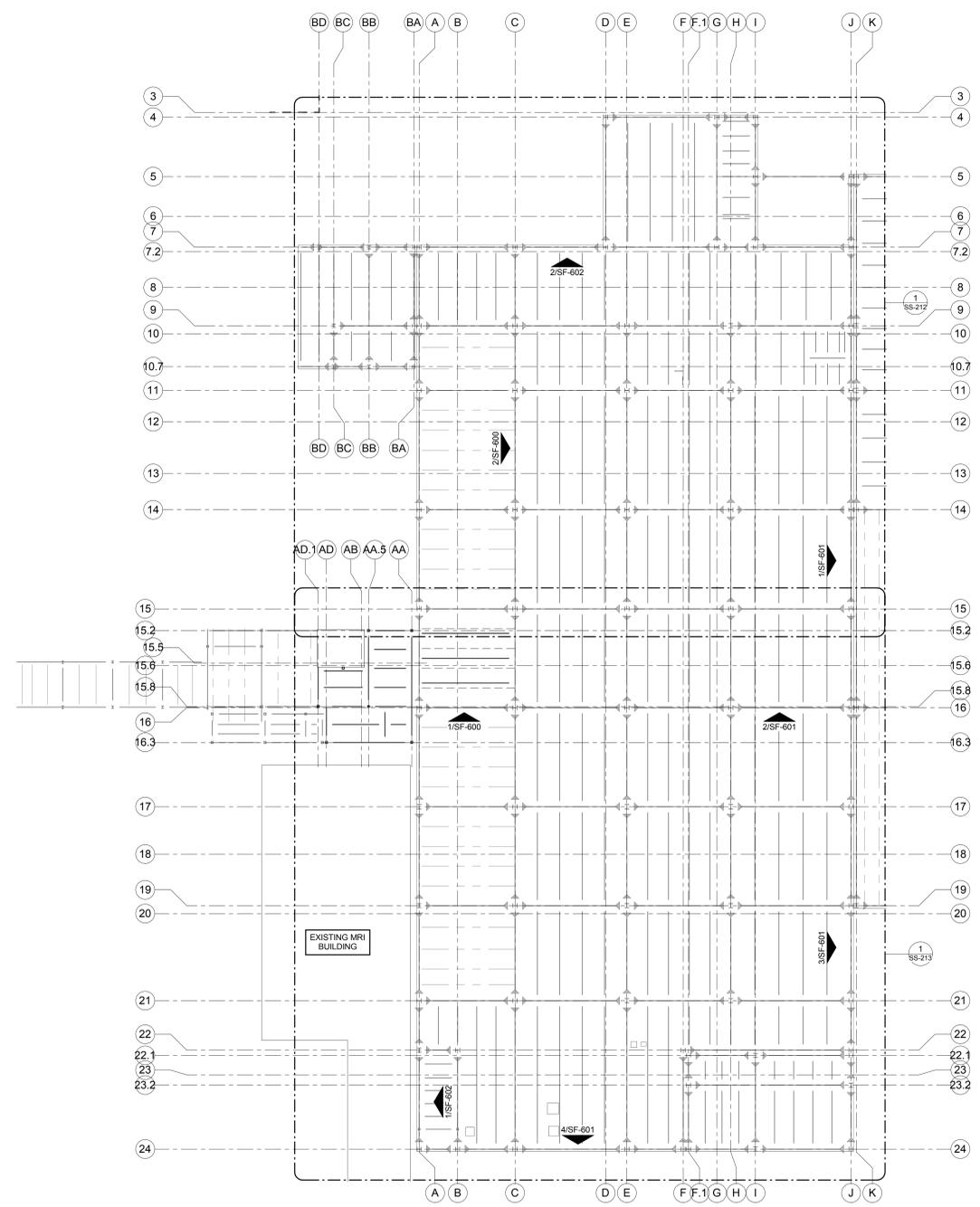
Location:
**MARION VAMC
 MARION, IL, 62959**

Project Title:
ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42

Approved: Project Director

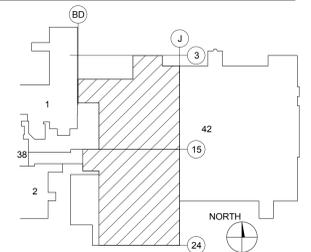
Date: 09/06/17
 Checked: DGC
 Drawn: JHC

VA PROJECT NUMBER: 657-343
 Building Number: 42
 Drawing Number: **SS-101**
 Dwg. 12 of 28



1 OVERALL 2ND/ROOF FRAMING PLAN
 SS-102 1/16" = 1'-0"

NOTE: STRUCTURAL IMPROVEMENTS FOR LATERAL LOAD RESISTING SYSTEMS APPLY ONLY TO INDICATED AREAS WEST OF THE EXISTING STRUCTURAL EXPANSION JOINT BETWEEN COLUMN LINES J AND K. STRUCTURAL IMPROVEMENTS FOR LATERAL LOAD RESISTING SYSTEMS EAST OF THE EXPANSION JOINT ARE NOT INCLUDED IN THIS PROJECT.



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Revisions:	Date

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Donald G. Corson

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 Virginia Beach, VA
 Fort Collins, CO

Project Number: 16-198
 Scale: AS INDICATED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **OVERALL 2ND/ROOF FRAMING PLAN**

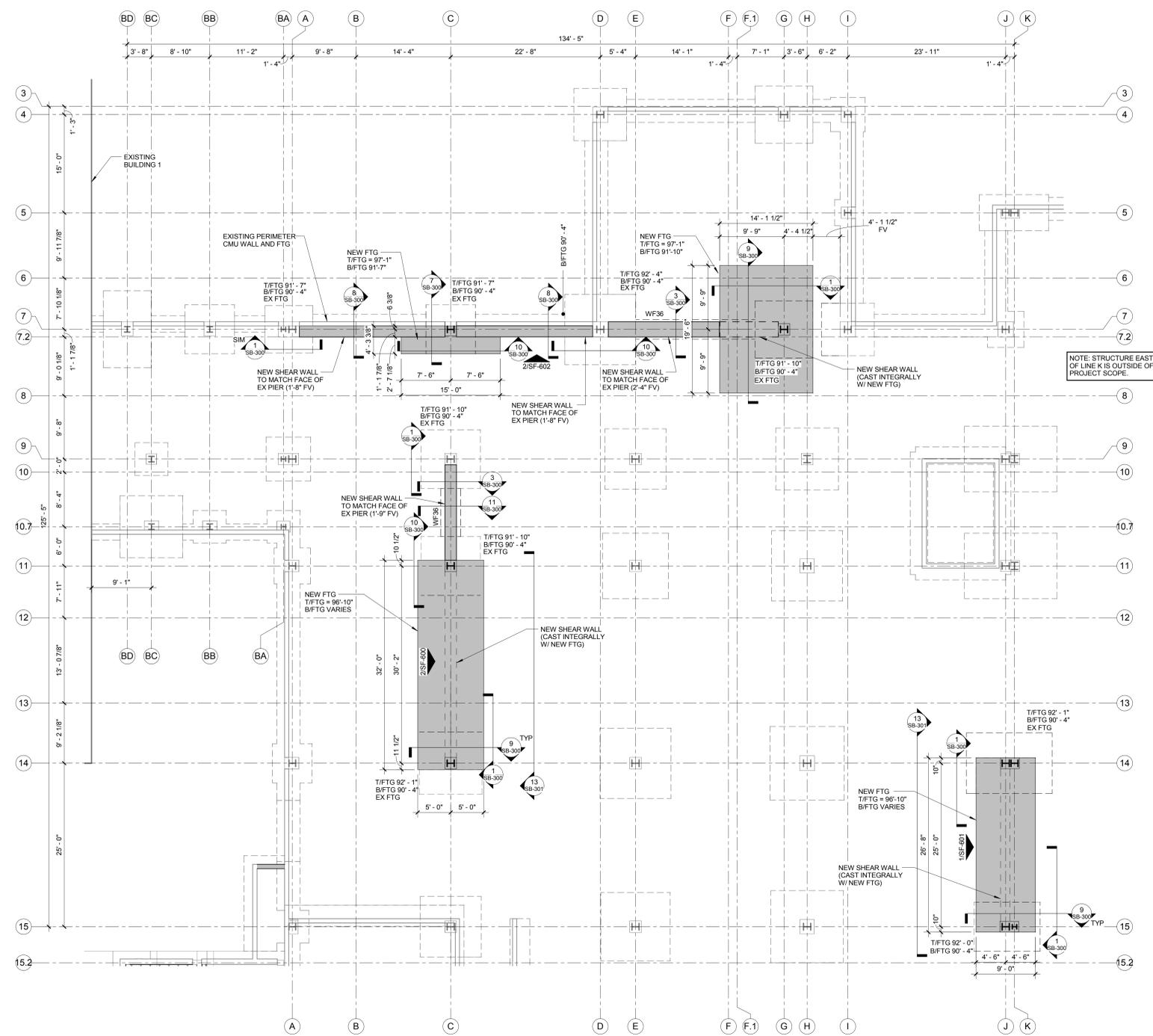
Location: **MARION VAMC
 MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

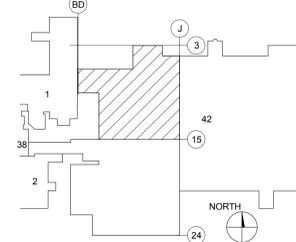
Date: 09/06/17
 Checked: DGC
 Drawn: JHC

VA PROJECT NUMBER: 657-343
 Building Number: 42
 Drawing Number: **SS-102**
 Dwg. 13 of 28



NOTE: STRUCTURE EAST OF LINE K IS OUTSIDE OF PROJECT SCOPE.

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION PHASING DOCUMENTS FOR APPROVAL BY THE COR.



100% CONSTRUCTION DOCUMENTS

1 FOUNDATION PLAN
 SS-110 1/8" = 1'-0"

GENERAL PLAN NOTES:

- REFERENCE TOP OF GROUND FLOOR TOPPING SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 469.70)
- EXISTING FOOTING ELEVATIONS PER PLAN.
- TOP OF INTERIOR EXISTING PIER ELEVATION = 93'-4" UNO.
- TOP OF PERIMETER EXISTING PIER ELEVATION = 96'-8" UNO.
- REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- EXISTING ELEVATIONS AND EXTENTS OF CONSTRUCTION NOTED ARE PER AS-BUILT DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.

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REGISTERED STRUCTURAL ENGINEER
 DONALD G. CORSON
 084-00749
 State of Illinois

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 Fort Collins, CO

Project Number 16-198
 Scale AS INDICATED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **FOUNDATION PLAN**

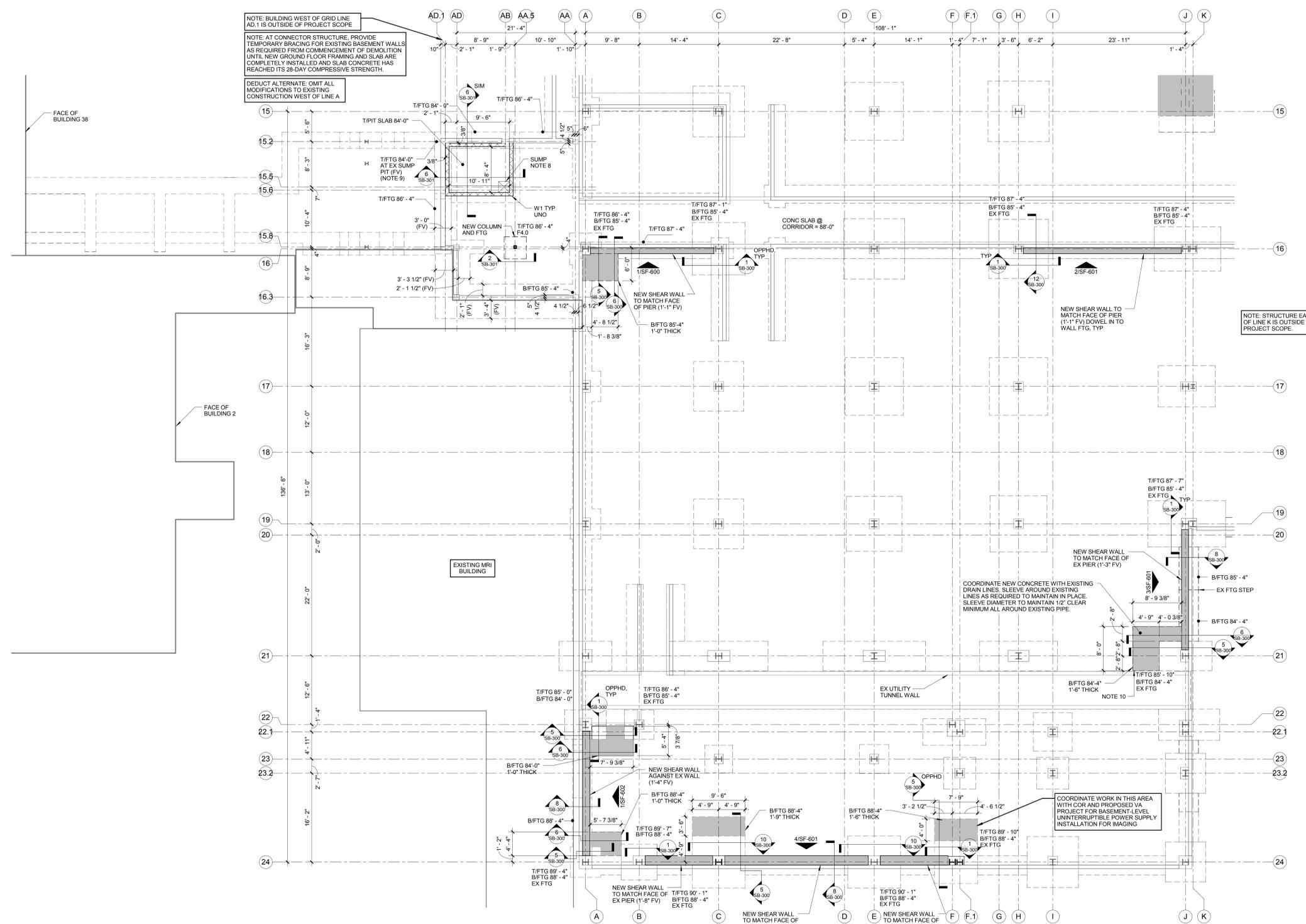
Location: **MARION VAMC MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

Date: 09/06/17
 Checked: DGC
 Drawn: JHC

VA PROJECT NUMBER 657-343
 Building Number 42
 Drawing Number **SS-110**
 Dwg. 14 of 28

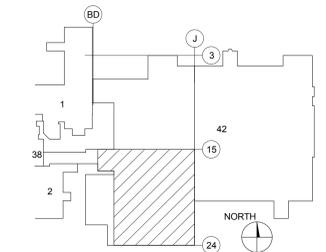


FOUNDATION PLAN
1/8" = 1'-0"

GENERAL PLAN NOTES:

- REFERENCE TOP OF GROUND FLOOR TOPPING SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 469.70')
- EXISTING FOOTING ELEVATIONS PER PLAN (FIELD VERIFY).
- TOP OF INTERIOR EXISTING PIER ELEVATION = 83'-4" UNO (FIELD VERIFY).
- TOP OF PERIMETER EXISTING PIER ELEVATION = 86'-8" UNO (FIELD VERIFY).
- REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- EXISTING ELEVATIONS AND EXTENTS OF CONSTRUCTION NOTED ARE PER AS-BUILT DOCUMENTATION. EXISTING INFORMATION SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- SUMP DEPRESSION IN ELEVATOR PIT. SEE TYPICAL DETAIL.
- PERMANENTLY CAP/PLUG EXISTING SUMP DRAIN INLET AND FILL EXISTING SUMP PIT WITH CONCRETE AS REQUIRED TO CONSTRUCT NEW ELEVATOR PIT SLAB.
- CONTRACTOR TO ADEQUATELY PROTECT EXISTING UTILITY TUNNEL DURING EXCAVATION AND INSTALLATION OF NEW WORK.

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION PHASING DOCUMENTS FOR APPROVAL BY THE COR.



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Raleigh, NC
Indianapolis, IN
Pittsburgh, PA
Virginia Beach, VA
Fort Collins, CO

Project Number: 16-198
Scale: AS INDICATED

Office of
Construction
and Facilities
Management



Drawing Title:
FOUNDATION PLAN

Location:
**MARION VAMC
MARION, IL, 62959**

Project Title:
**ADD STRUCTURAL
IMPROVEMENTS TO BUILDING
42**

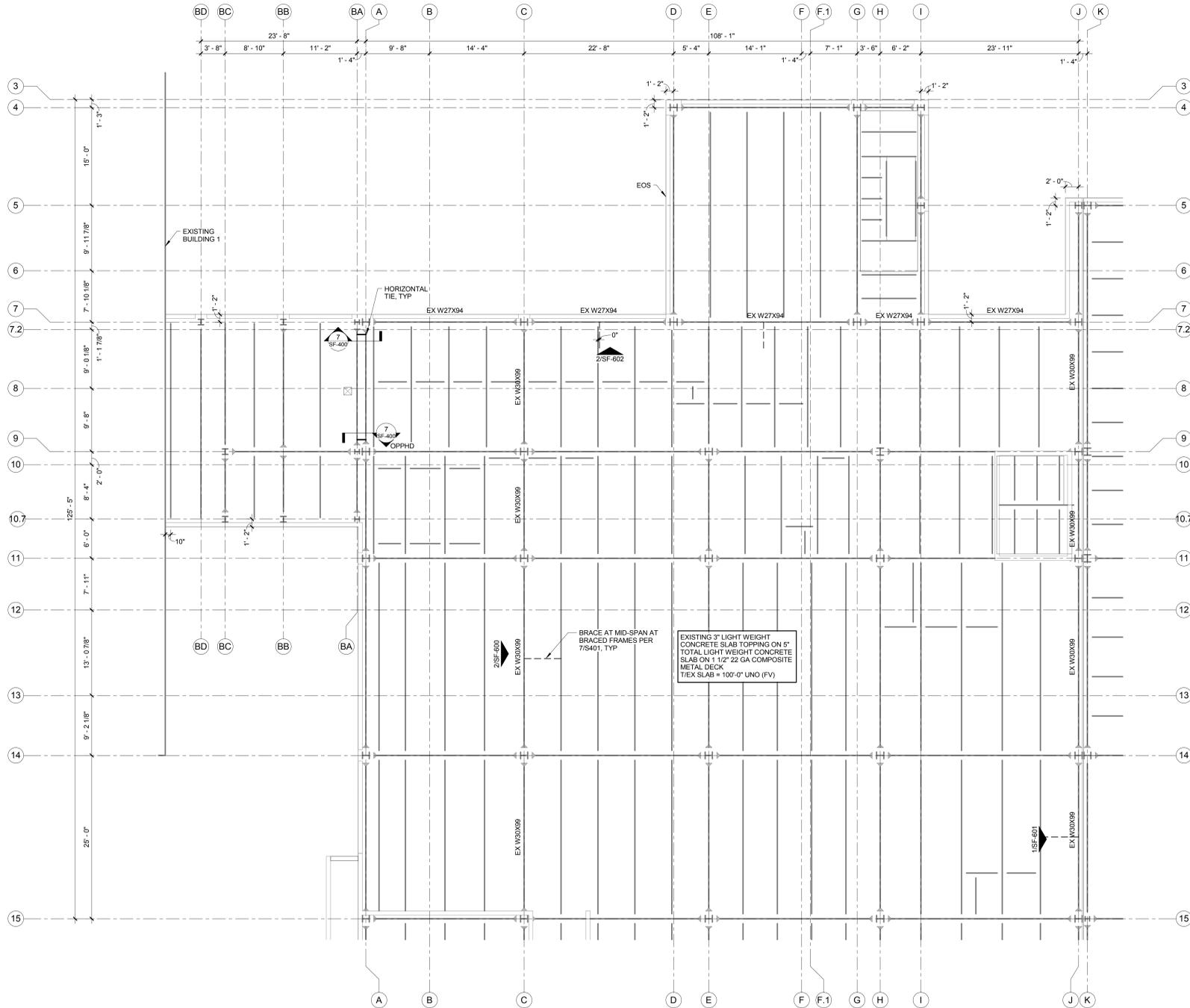
Approved: Project Director
Date: 09/06/17
Checked: DGC
Drawn: JHC

VA PROJECT NUMBER:
657-343

Building Number:
42

Drawing Number:
SS-111

Dwg. 15 of 28



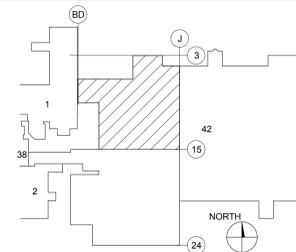
NOTE: STRUCTURE EAST OF LINE K IS OUTSIDE OF PROJECT SCOPE.

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION/PHASING DOCUMENTS FOR APPROVAL BY THE COR.

1 GROUND FLOOR FRAMING PLAN
1/8" = 1'-0"

GENERAL PLAN NOTES:

1. REFERENCE TOP OF GROUND FLOOR TOPPING SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 469.70)
2. TOP OF STEEL (T/STL) ELEVATION = 99'-4" UNO.
3. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
4. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR BRACE ELEVATIONS.
6. SEE SHEET DESIGNATIONS PER PLAN FOR BRACE ELEVATIONS.
7. EXISTING ELEVATIONS AND EXTENTS OF CONSTRUCTION NOTED ARE PER AS-BUILT DOCUMENTATION. EXISTING INFORMATION SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
8. EXISTING MOMENT CONNECTIONS ARE TO BE LEFT IN PLACE. THEY ARE SHOWN FOR REFERENCE ONLY.



100% CONSTRUCTION DOCUMENTS

Revisions:	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

GROUND FLOOR FRAMING PLAN

Location: **MARION VAMC MARION, IL, 62959**

ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42

Approved: Project Director

Date: 09/06/17

Checked: DGC

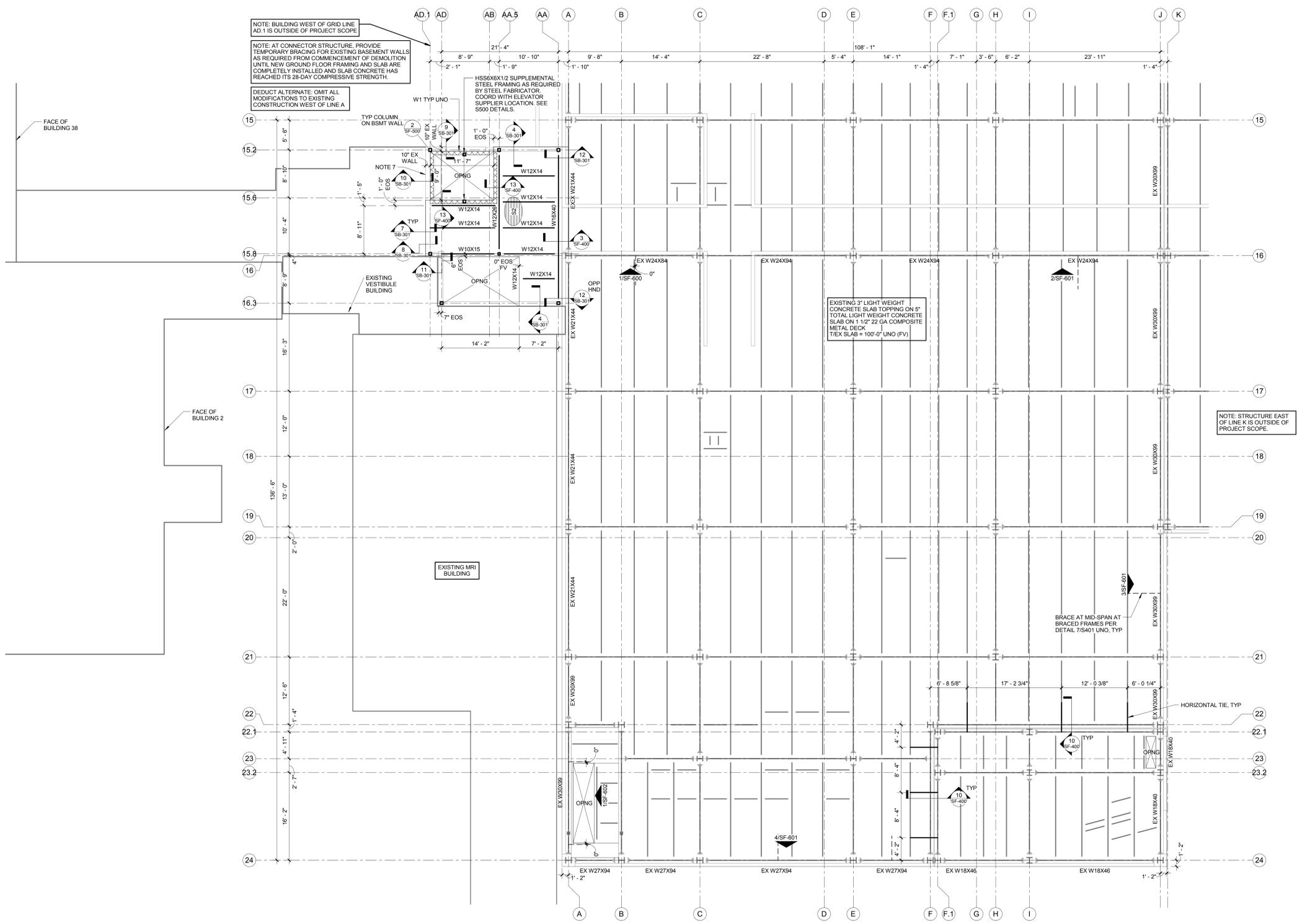
Drawn: JHC

VA PROJECT NUMBER: 657-343

Building Number: 42

Drawing Number: **SS-210**

Dwg. 16 of 28

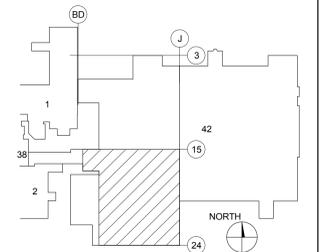


GROUND FLOOR FRAMING PLAN
1/8" = 1'-0"

GENERAL PLAN NOTES:

- REFERENCE TOP OF GROUND FLOOR TOPPING SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 469.70)
- TOP OF STEEL (T/STL) ELEVATION = 99'-4" UNO.
- REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- SEE SHEET DESIGNATIONS PER PLAN FOR BRACE ELEVATIONS.
- EXISTING ELEVATIONS AND EXTENTS OF CONSTRUCTION NOTED ARE PER AS-BUILT DOCUMENTATION. EXISTING INFORMATION SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- NOTED EXTENTS OF EXISTING WEST WALL OF ELEVATOR TO REMAIN. SEE DETAILS FOR REQUIRED MODIFICATIONS INTO NEW CONSTRUCTION.

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION/PHASING DOCUMENTS FOR APPROVAL BY THE COR.



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Fort Collins, CO

Project Number 16-198
Scale AS INDICATED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **GROUND FLOOR FRAMING PLAN**

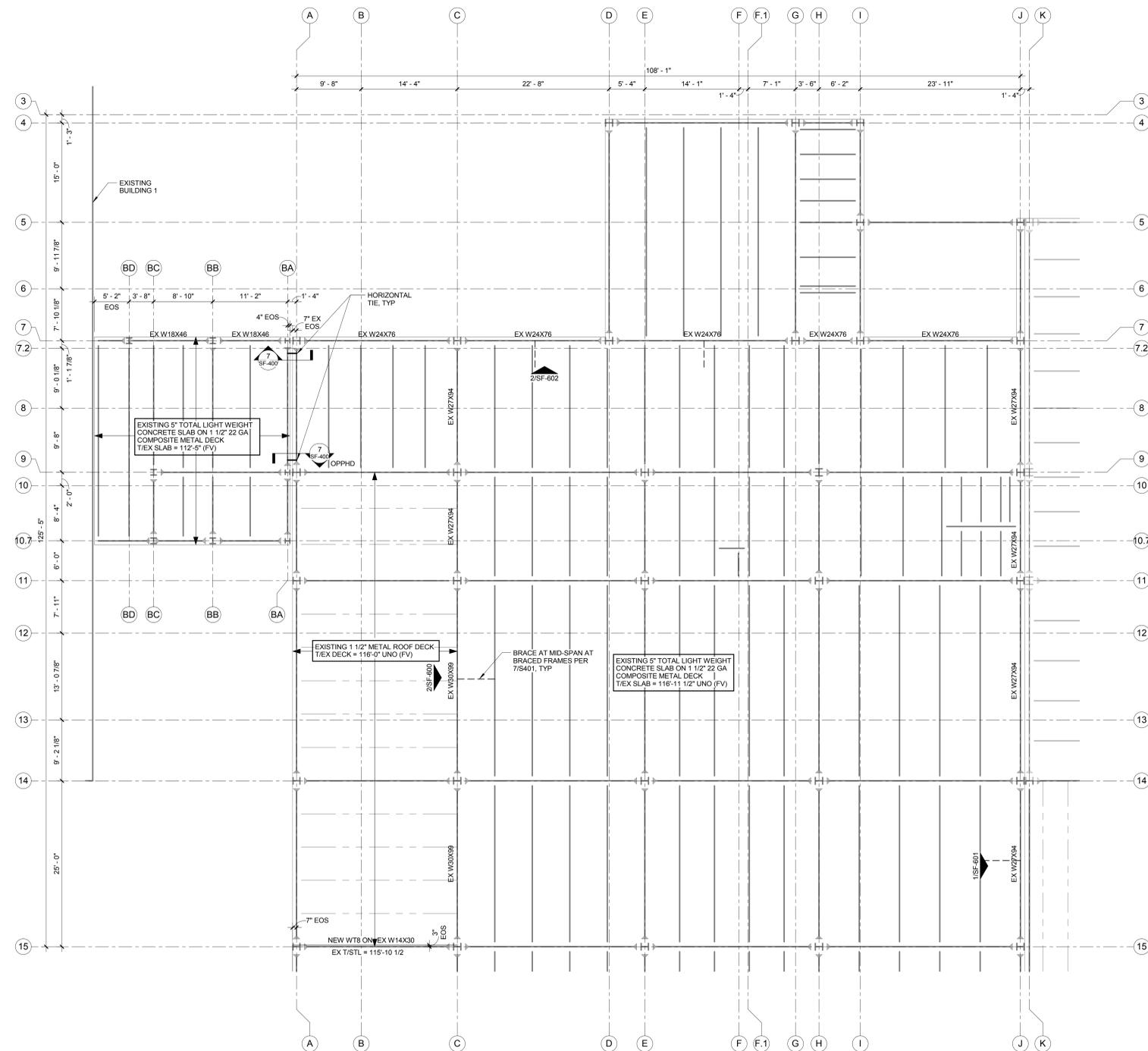
Location: **MARION VAMC MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

Date: 09/06/17
Checked: DGC
Drawn: JHC

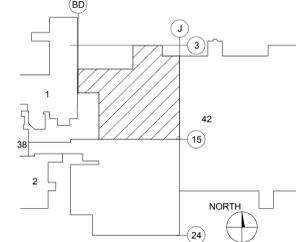
VA PROJECT NUMBER 657-343
Building Number 42
Drawing Number **SS-211**
Dwg. 17 of 28



2ND/ROOF FRAMING PLAN
1/8" = 1'-0"

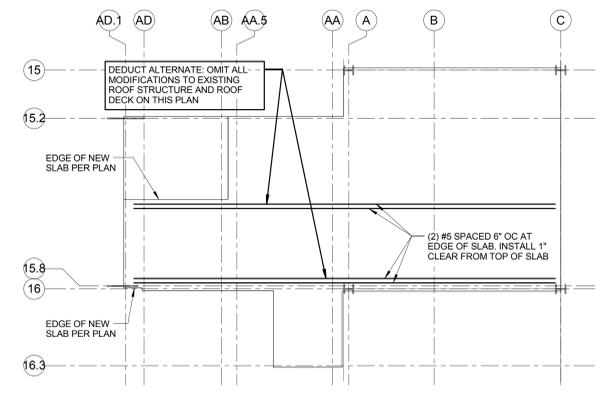
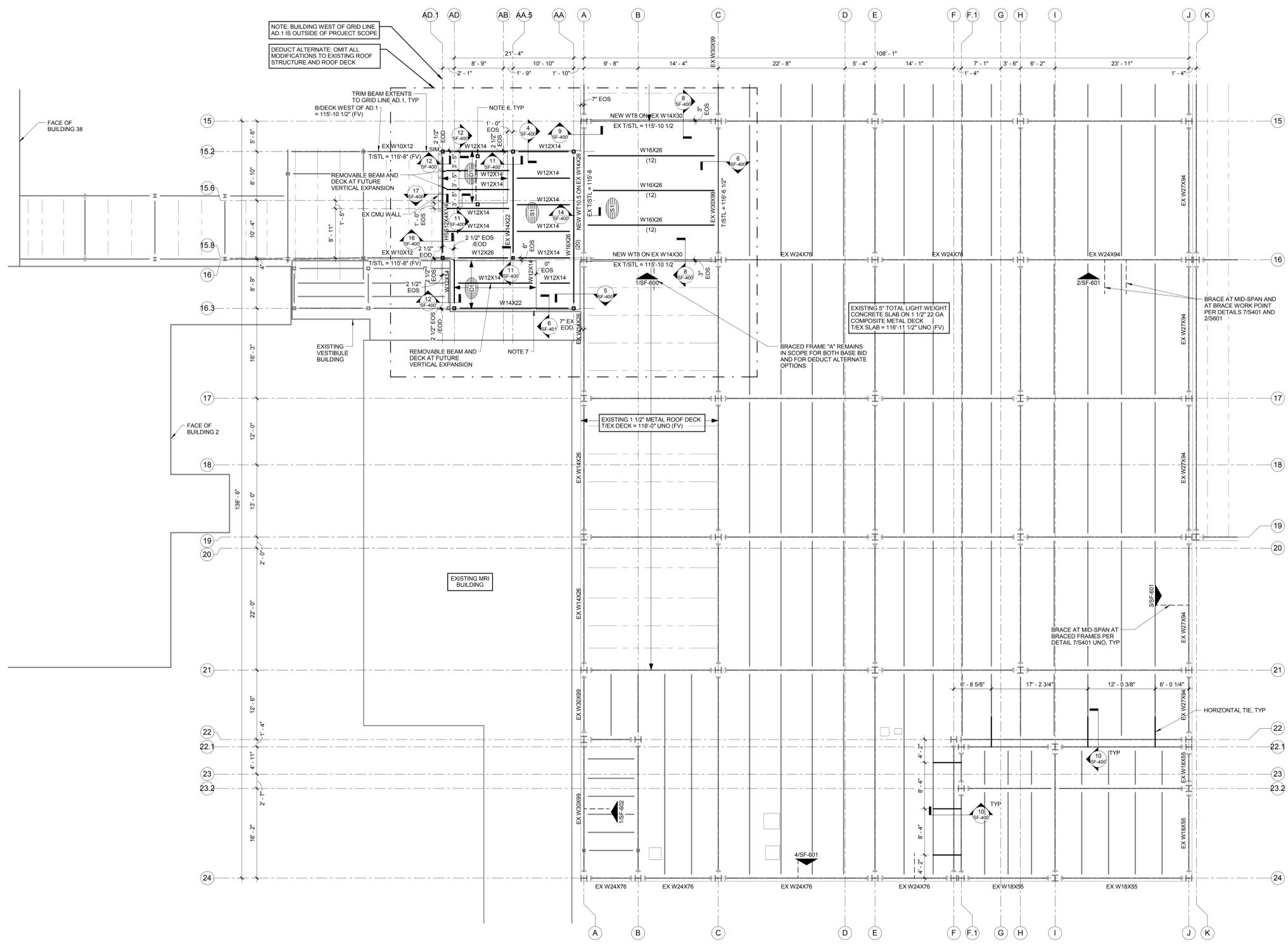
- GENERAL PLAN NOTES:**
- REFERENCE TOP OF GROUND FLOOR TOPPING SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 469 70)
 - TOP OF STEEL (T/STL) ELEVATION = 116'-6 1/2" UNO, TOP OF EXISTING SLAB ON METAL DECK ELEVATION = 116'-11 1/2" UNO.
 - REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
 - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
 - EXISTING ELEVATIONS AND EXTENTS OF CONSTRUCTION NOTED ARE PER AS-BUILT DOCUMENTATION. EXISTING INFORMATION SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION PHASING DOCUMENTS FOR APPROVAL BY THE COR.



100% CONSTRUCTION DOCUMENTS

CONSULTANTS: Baysinger Design Group, Inc. 4311 West 13th Street, Suite 100B Miami, Florida 33155 Phone: 305-996-8815 Fax: 305-996-8812 Email: info@baysinger.com www.baysinger.com	 AMERICAN STRUCTUREPOINT INC. 7260 Grandstand Station, Indianapolis, IN 46256 Tel: 317-540-5500 Fax: 317-540-9270 www.structurepoint.com	 DONALD G. CORSON 084-007947 STATE OF ILLINOIS	PROJECT MANAGER: APOGEE Consulting Group Engineers & Architects www.acgp.com 919-858-7420	Project Number 16-198	Scale AS INDICATED	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title: 2ND/ROOF FRAMING PLAN	Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42	VA PROJECT NUMBER 657-343
				Location: MARION VAMC MARION, IL, 62959	Approved: Project Director Date: 09/06/17		Building Number 42	Drawing Number SS-212 Dwg. 18 of 28	



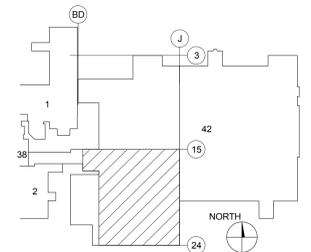
2ND/ROOF FRAMING PLAN - SUPPLEMENTAL SLAB REINFORCEMENT PLAN
 2 SS-213 1/8" = 1'-0"

1 2ND/ROOF FRAMING PLAN
 1 SS-213 1/8" = 1'-0"

GENERAL PLAN NOTES:

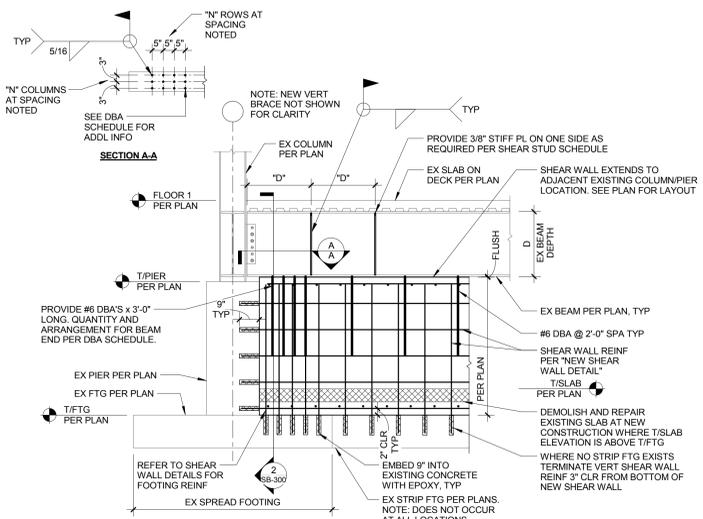
1. REFERENCE TOP OF GROUND FLOOR TOPPING SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 469.70)
2. TOP OF STEEL (T/STL) ELEVATION = 116'-6 1/2" UNO. TOP OF EXISTING SLAB ON METAL DECK ELEVATION = 116'-11 1/2" UNO.
3. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
4. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
5. EXISTING ELEVATIONS AND EXTENTS OF CONSTRUCTION NOTED ARE PER AS-BUILT DOCUMENTATION. EXISTING INFORMATION SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
6. HSS6X6X1/2 SUPPLEMENTAL STEEL FRAMING WITH W8X18 HOIST BEAM AS REQUIRED BY STEEL FABRICATOR. COORDINATE LOCATION WITH ELEVATOR SUPPLIER. SUPPORT HOIST BEAM FROM BOTTOM FLANGE OF INTERIOR (2) REMOVABLE BEAMS.
7. SHORE EXISTING SLOUGHT AS REQUIRED DURING DEMOLITION OF EXISTING WALL. CONSTRUCTION OF NEW WALL, AND REINSTALLATION OF SKYLIGHT PER DETAIL F1 ON PREVIOUS DRAWINGS TITLED IMPROVED B42 NORTHWEST VESTIBULE DATED 1-31-14.

COORDINATE PHASING OF ALL STRUCTURAL CONSTRUCTION WITH OTHER DISCIPLINES AS NECESSARY TO MAINTAIN AND PROTECT MEP EQUIPMENT AND LINES IN SERVICE THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PROVIDE COORDINATION/PHASING DOCUMENTS FOR APPROVAL BY THE COR.

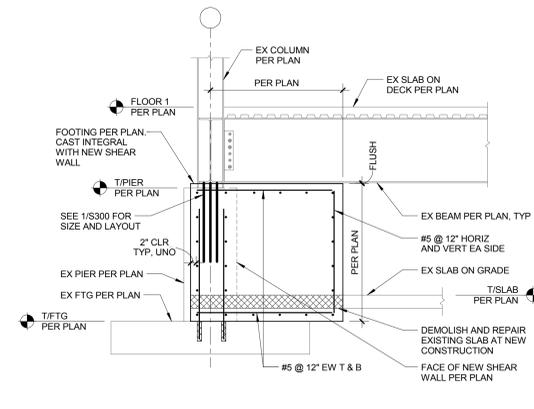


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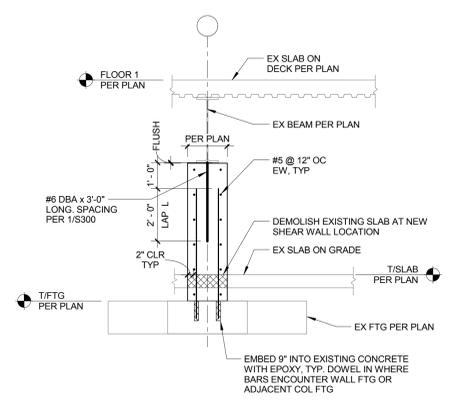
Revisions: _____ Date _____	CONSULTANTS: Baysinger Design Group, Inc. 1331 West DuPont Street, Suite 100B Manassas, VA 20108 Phone: 571-990-8815 Fax: 571-990-8812 www.baysingerdesign.com	 AMERICAN STRUCTUREPOINT INC. 7260 Shadeland Station, Indianapolis, IN 46256 Tel: 317-451-5500 Fax: 317-451-5500 www.structurepoint.com	 DONALD G. CORSON 084-007947 STATE OF ILLINOIS	PROJECT MANAGER: APOGEE Consulting Group Engineers Architects www.acgp-ga.com 919-858-7420	Project Number: 16-198 Scale: AS INDICATED	Office of Construction and Facilities Management 	Drawing Title: 2ND/ROOF FRAMING PLAN	Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42	VA PROJECT NUMBER: 657-343
							Location: MARION VAMC MARION, IL, 62959	Approved: Project Director Date: 09/06/17	Building Number: 42



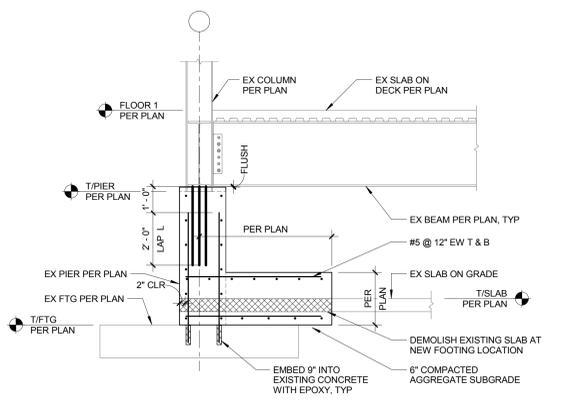
1 NEW SHEAR WALL DETAIL AT EXISTING FOUNDATION AND FRAMING
SB-300 N.T.S.



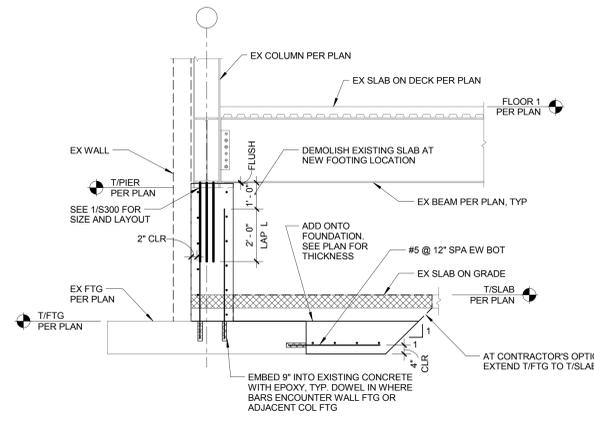
2 FOOTING DETAIL AT NEW SHEAR WALL AND EXISTING FOUNDATION
SB-300 N.T.S.



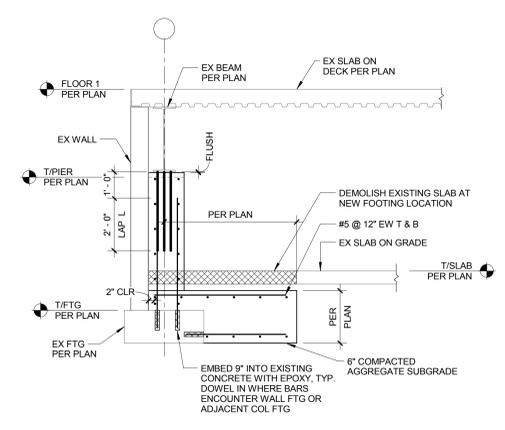
3 NEW SHEAR WALL DETAIL
SB-300 N.T.S.



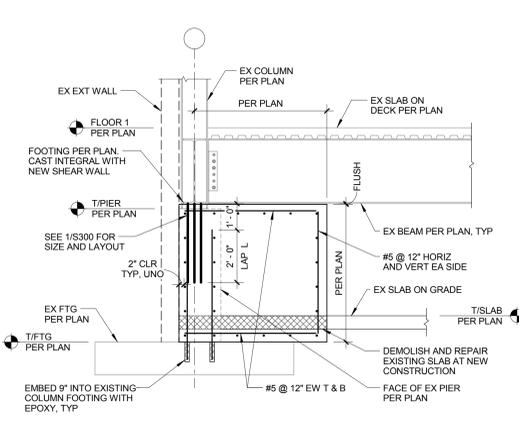
4 FOUNDATION REINFORCING DETAIL WITH SHEAR WALL
SB-300 N.T.S.



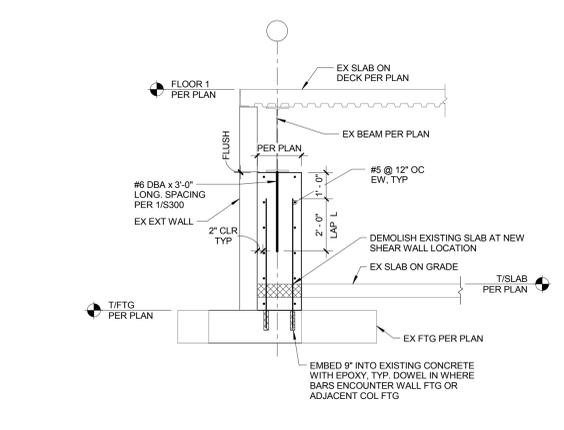
5 FOUNDATION REINF DETAIL WITH SHEAR WALL AT COLUMN FTG
SB-300 N.T.S.



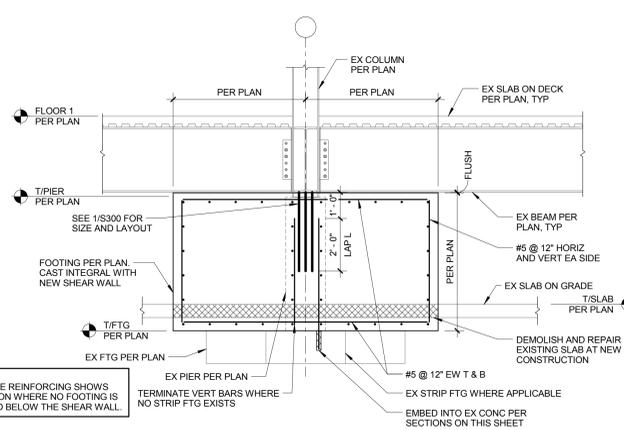
6 FOUNDATION REINF DETAIL WITH SHEAR WALL AT STRIP FTG
SB-300 N.T.S.



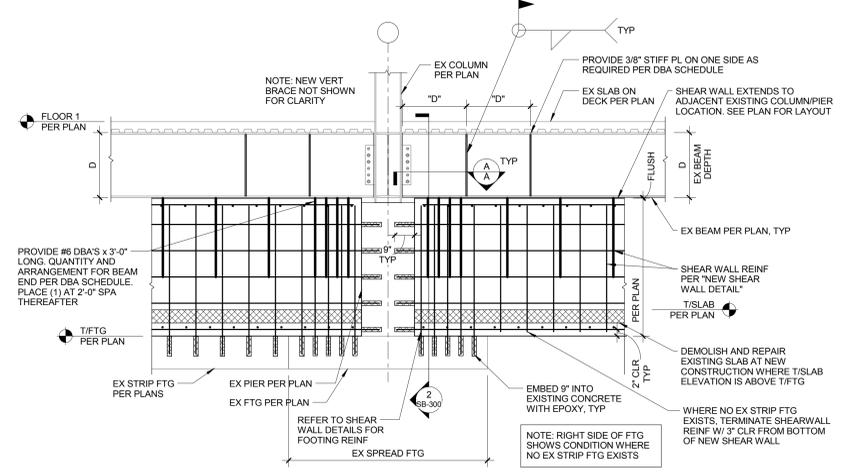
7 FOOTING DETAIL AT EX FDN AT EXT WALL
SB-300 N.T.S.



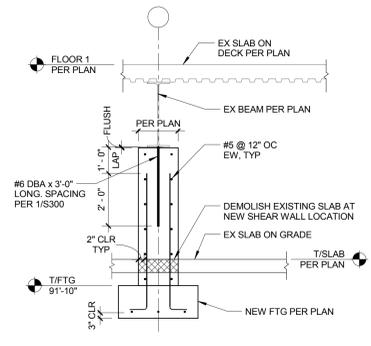
8 NEW SHEAR WALL DETAIL AT EXT WALL
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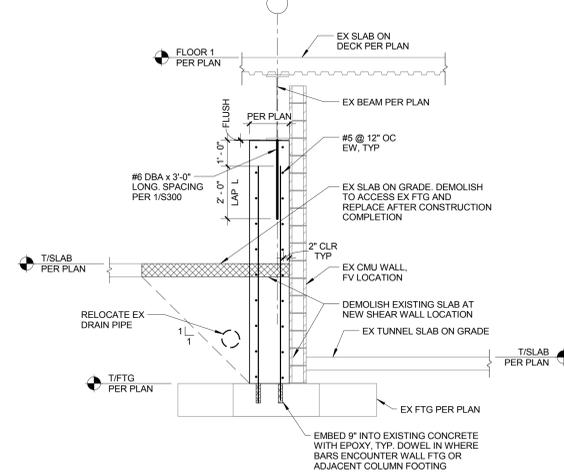
9 FOOTING DETAIL AT EX FDN
SB-300 N.T.S.



10 NEW SHEAR WALL DETAIL AT EX FDN AND FRAMING
SB-300 N.T.S.



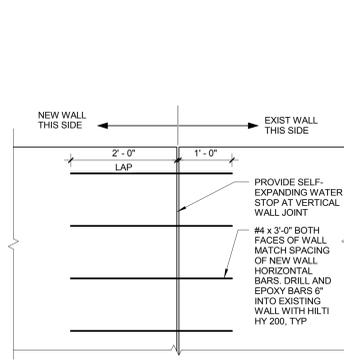
11 NEW SHEAR WALL AND FTG DETAIL
SB-300 N.T.S.



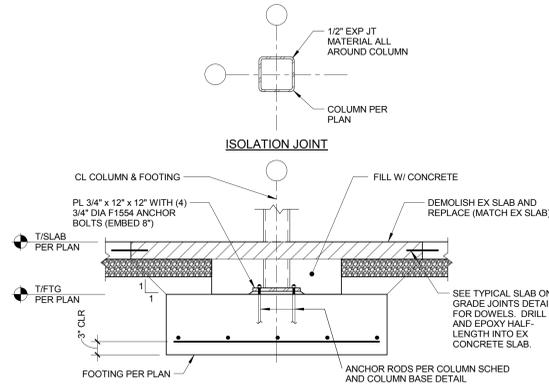
12 NEW SHEAR WALL DETAIL
SB-300 N.T.S.

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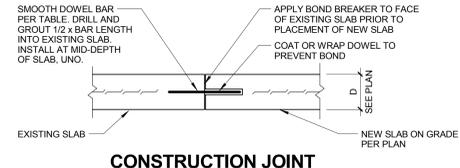
Revisions: _____ Date: _____	CONSULTANTS: Baysinger Design Group, Inc. 4331 West 124th Street, Suite 100B Mankato, MN 56001 Phone: 507-936-8111 Fax: 507-936-8112 Email: info@baysingerdesign.com www.baysingerdesign.com	 AMERICAN STRUCTUREPOINT INC. 7240 Grandstand Station, Indianapolis, IN 46256 Tel: 317-540-5500 Fax: 317-540-5270 www.structurepoint.com	PROJECT MANAGER: APOGEE Consulting Group Engineers & Architects www.ecgpa.com 919-858-7420	Project Number: 16-198 Scale: AS INDICATED	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title: SUBSTRUCTURE SECTIONS AND DETAILS	Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42	VA PROJECT NUMBER: 657-343
						Location: MARION VAMC MARION, IL, 62959	Approved: Project Director Date: 09/16/17	Building Number: 42



1 SB-301 N.T.S. INTERFACE OF NEW AND EXISTING WALL



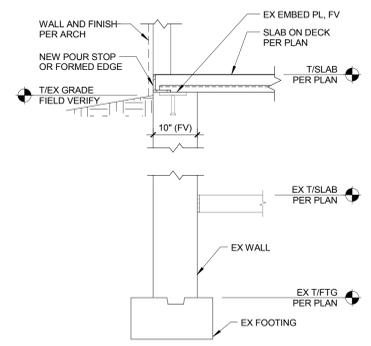
2 SB-301 N.T.S. HSS COLUMN ON FOOTING



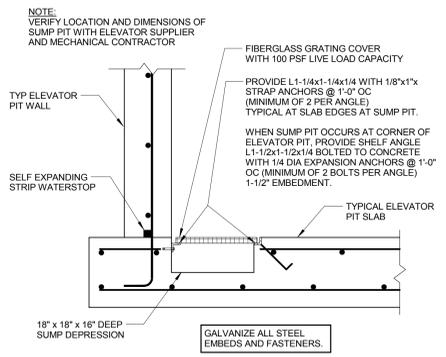
DOWEL SIZE AND SPACING

SLAB DEPTH (IN)	DOWEL BAR DIAMETER (IN)	TOTAL BAR LENGTH (IN)	BAR SPACING (CTR - CTR) (IN)
4	3/4	16	24
5-6	3/4	16	12

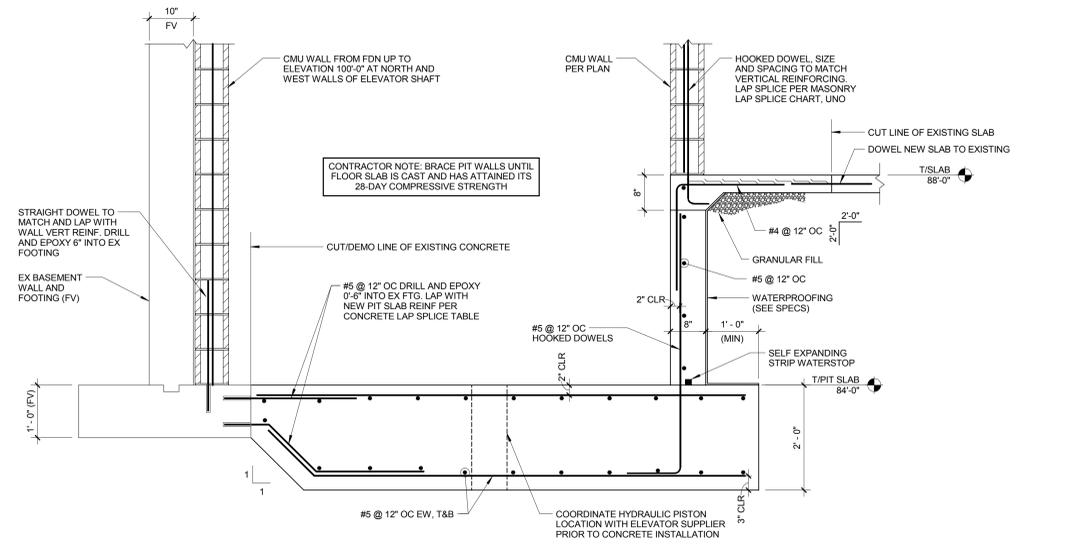
3 SB-301 N.T.S. TYPICAL NEW-TO-EXISTING SLAB ON GRADE JOINTS



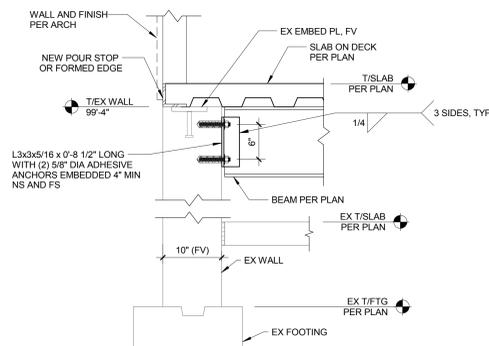
4 SB-301 N.T.S. SLAB ON EX FOUNDATION WALL



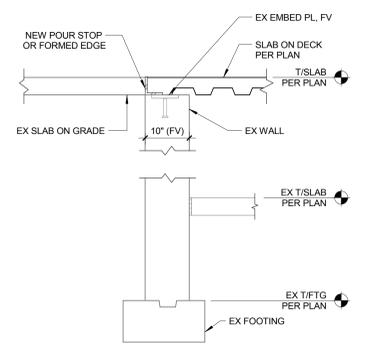
5 SB-301 N.T.S. TYPICAL SUMP PIT AT ELEVATOR PIT



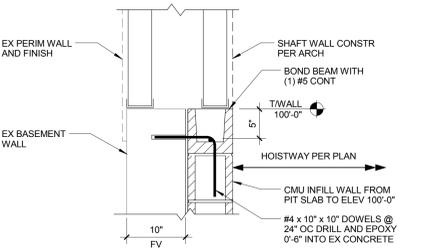
6 SB-301 N.T.S. ELEVATOR PIT TIE-IN DETAIL



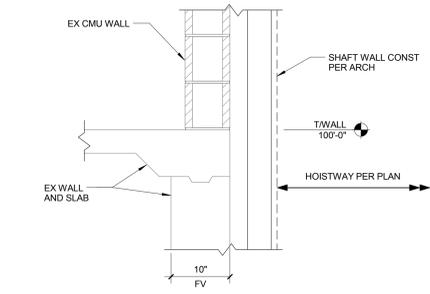
7 SB-301 N.T.S. BEAM TO EX FOUNDATION WALL



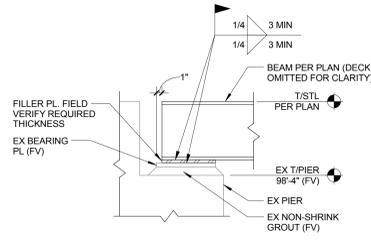
8 SB-301 N.T.S. SLAB ON EX FOUNDATION WALL



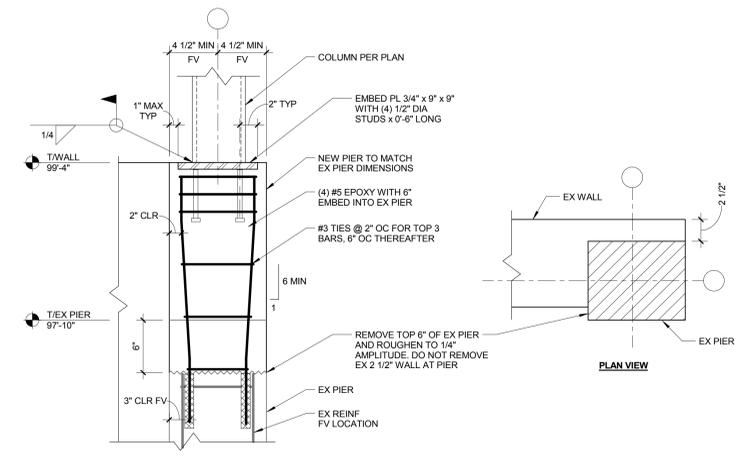
9 SB-301 N.T.S. SECTION



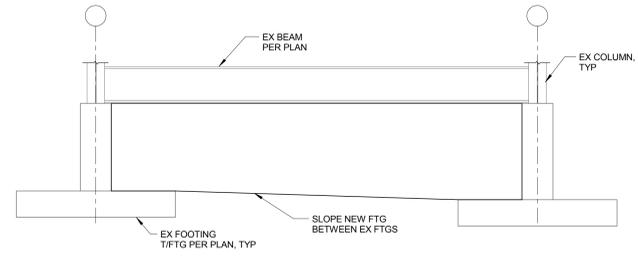
10 SB-301 N.T.S. SECTION



11 SB-301 N.T.S. SECTION



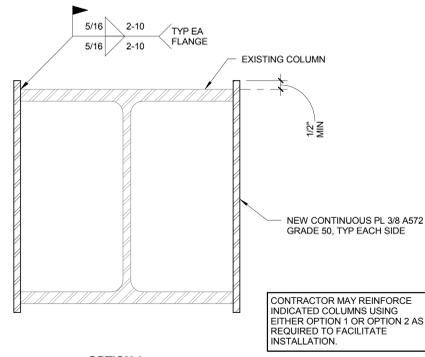
12 SB-301 N.T.S. COLUMN PIER DETAIL



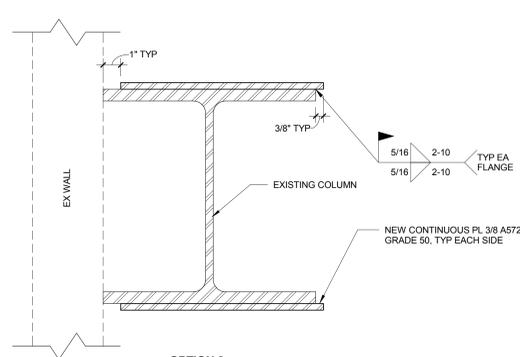
13 SB-301 N.T.S. SLOPED NEW FOOTING SECTION

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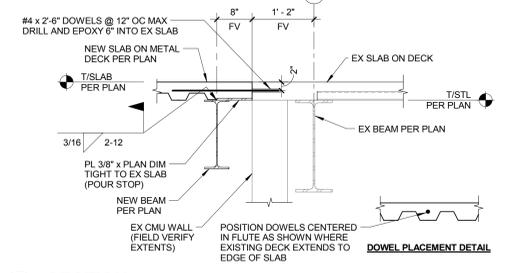
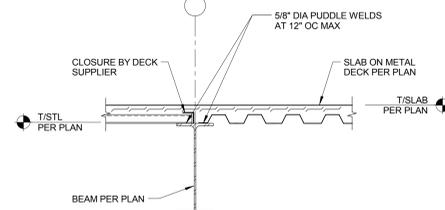
CONSULTANTS: Baysinger Design Group, Inc. 4331 West 13th Street, Suite 100B Mason, Illinois 62550 Phone: 618-998-8815 Fax: 618-998-8812 Email: info@baysinger.com www.baysinger.com	 AMERICAN STRUCTUREPOINT INC. 7260 Shadeland Station, Indianapolis, IN 46256 Tel: 317-540-5500 Fax: 317-540-9270 www.structurepoint.com	PROJECT MANAGER: APOGEE Consulting Group Engineers Architects www.acgp.com 919-858-7420	Project Number 16-198	Scale AS INDICATED	Office of Construction and Facilities Management 	Drawing Title: SUBSTRUCTURE SECTIONS AND DETAILS	Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42	VA PROJECT NUMBER 657-343
			Approved: Project Director	Date 09/06/17		Checked DGC	Drawn JHC	Building Number 42



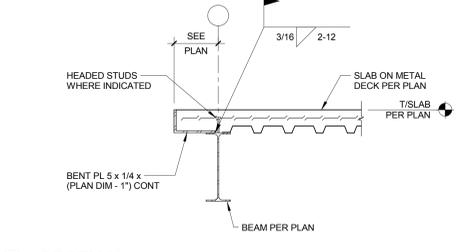
1 COLUMN REINFORCING DETAIL
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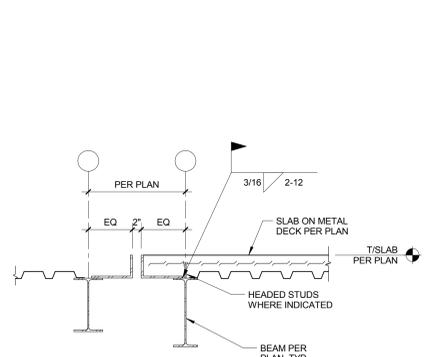
2 CHANGE IN FLOOR DECK SPAN DIRECTION
SF-400 N.T.S.



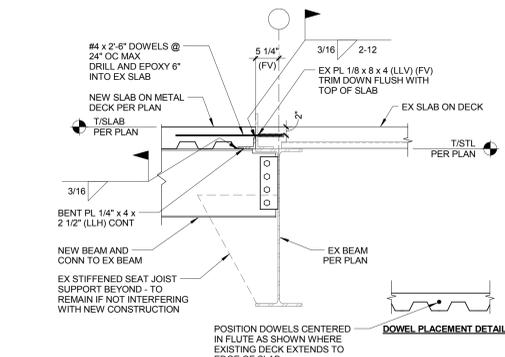
3 SECTION
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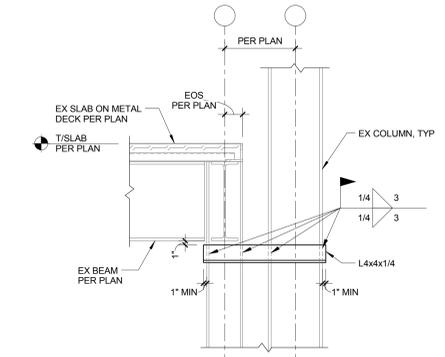
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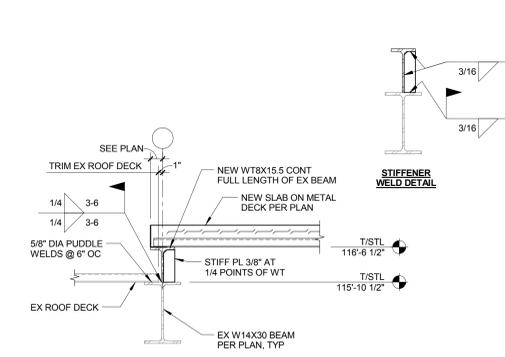
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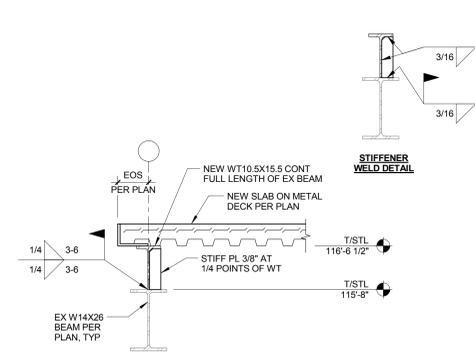
6 SECTION
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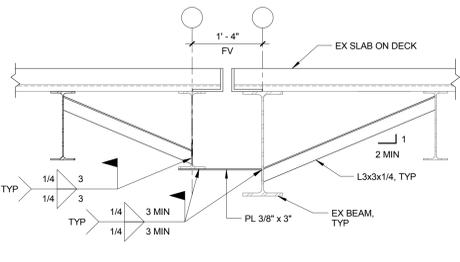
7 LATERAL TIE-FRAME DETAIL AT NW CONNECTOR
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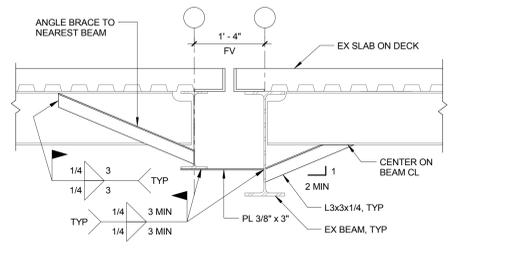
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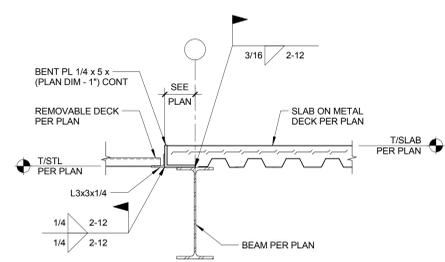
9 SECTION
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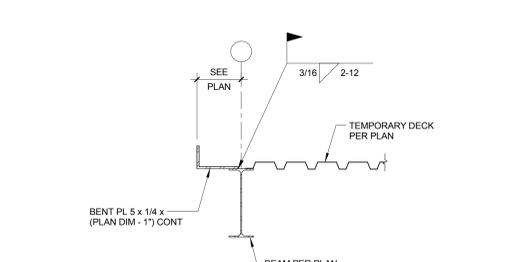
10 LATERAL TIE FRAMING DETAILS
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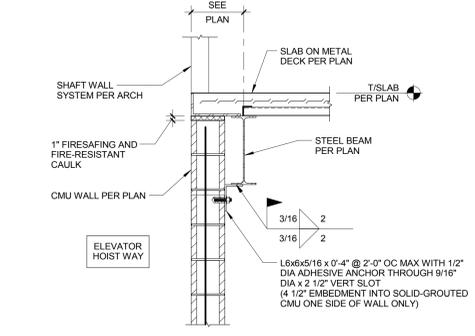
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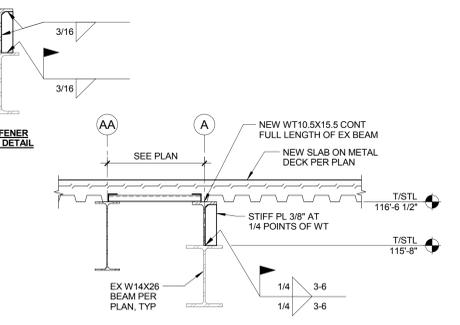
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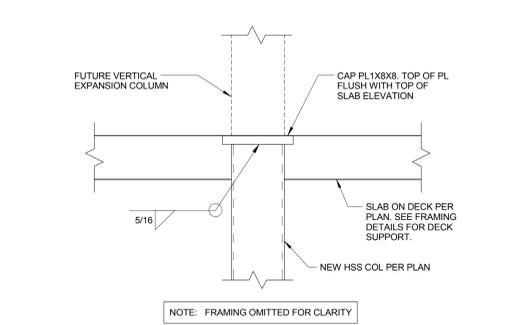
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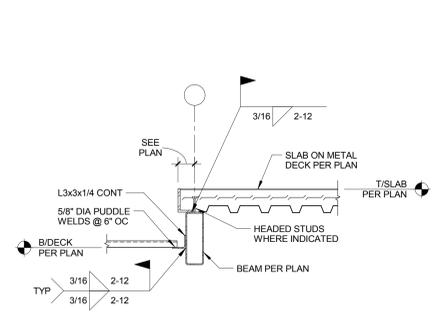
14 SECTION
SF-400 N.T.S.



15 SECTION
SF-400 N.T.S.



16 SECTION
SF-400 N.T.S.



17 SECTION
SF-400 N.T.S.



18 SECTION
SF-400 N.T.S.

Revisions:	Date:

CONSULTANTS:

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Fax: 480.990.8812
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AMERICAN STRUCTUREPOINT INC.
7240 Grandstand Station, Indianapolis, IN 46256
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www.structurepoint.com

PROJECT MANAGER:

Project Number 16-198
Scale AS INDICATED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

APOGEE Consulting Group
Engineers | Architects
www.apogee-ga.com
919-858-7420

Raleigh, NC
Indianapolis, IN
Pittsburgh, PA
Virginia Beach, VA
Fort Collins, CO

Drawing Title:
SUPERSTRUCTURE SECTIONS AND DETAILS

Location:
**MARION VAMC
MARION, IL, 62959**

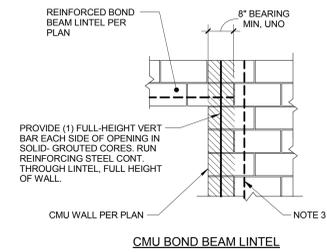
Project Title:
ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42

Approved: Project Director

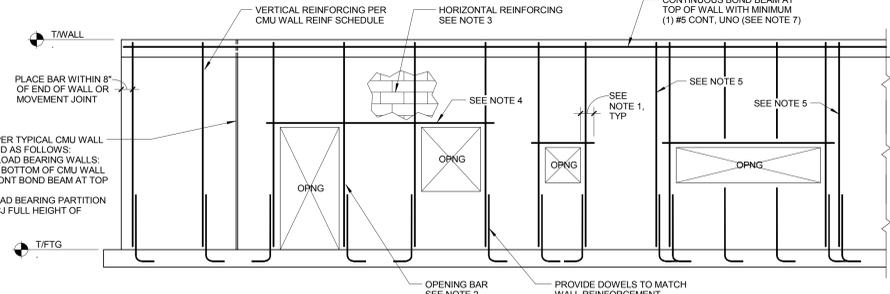
Date: 09/06/17
Checked: DGC
Drawn: JHC

VA PROJECT NUMBER: 657-343
Building Number: 42
Drawing Number: **SF-400**
Dwg. 22 of 28

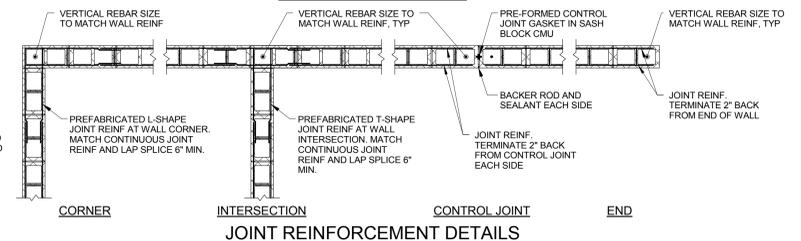
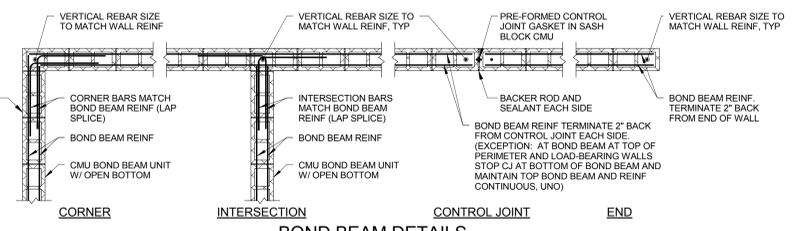
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- NOTES:**
1. INSTALL LINTELS TO PROVIDE EQUAL BEARING LENGTH EACH SIDE OF OPENING, UNO.
 2. VERTICAL BARS SHALL BE THE SAME SIZE AS TYPICAL VERTICAL WALL REINFORCEMENT, UNO.
 3. FOR OPENINGS THAT INTERRUPT 2 OR MORE REGULARLY SPACED VERTICAL BARS, PROVIDE ONE ADDITIONAL FULL-HEIGHT BAR @ 8" OC ADJACENT TO EACH JAMB FOR EVERY 2 BARS INTERRUPTED BY THE OPENING.



- NOTES:**
1. PROVIDE MINIMUM OF 8" BEARING AT BOND BEAM LINTELS, UNO.
 2. PROVIDE FULL HEIGHT VERTICAL JAMB BAR EACH SIDE OF EVERY OPENING.
 3. HORIZONTAL REINFORCING TO CONSIST OF 9 GAUGE LADDER TYPE WIRE REINFORCING SPACED AT 16" OC VERTICALLY, UNO.
 4. PROVIDE CONTINUOUS BOND BEAM LINTELS OVER ADJACENT SAME-HEIGHT OPENINGS WITH LESS THAN 2'-8" OF MASONRY BETWEEN OPENINGS.
 5. FOR OPENINGS THAT INTERRUPT 2 OR MORE REGULARLY SPACED VERTICAL BARS, PROVIDE ONE ADDITIONAL BAR AT 8" OC ADJACENT TO EACH JAMB FOR EVERY 2 BARS INTERRUPTED BY THE OPENING.
 6. CONDITION SHOWN ON THIS DETAIL IS FOR BOND BEAM LINTELS. SEE LINTEL BEARING DETAILS FOR BAR PLACEMENT INFORMATION AT STEEL AND PRECAST LINTELS (WHEN PERMITTED).
 7. PROVIDE ADDITIONAL CONTINUOUS BOND BEAMS WHERE INDICATED ON THE DRAWINGS.

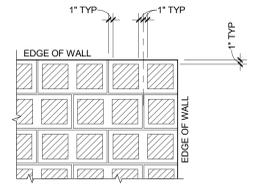


- NOTES:**
1. VERTICAL REINFORCEMENT INDICATED ON THIS DETAIL IS REQUIRED IN ADDITION TO SCHEDULED VERTICAL REINFORCEMENT, UNLESS SCHEDULED REINFORCEMENT ALREADY OCCURS AT THE INDICATED LOCATIONS.
 2. PROVIDE LAPPED DOWELS INTO FOUNDATION AT ALL VERTICAL REINFORCEMENT.

1 TYPICAL LINTEL BEARING DETAILS
SF-401 N.T.S.

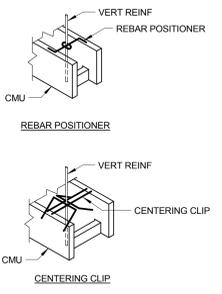
2 TYPICAL REINFORCING AT CMU WALLS
SF-401 N.T.S.

3 TYPICAL CMU WALL JOINT DETAILS
SF-401 N.T.S.

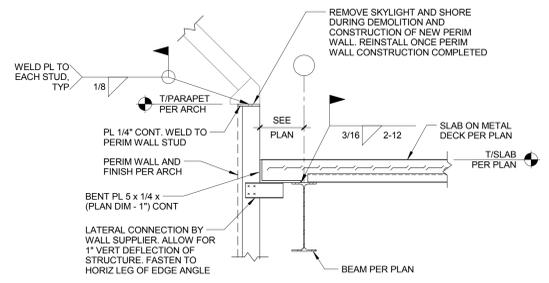


- NOTES:**
1. ONLY ONE ANCHOR MAY BE PLACED IN EACH CORE.
 2. SHADDED AREAS ARE ACCEPTABLE AREAS TO USE POST-INSTALLED ANCHORS.
 3. ANCHOR LOCATIONS MUST STAY 1" CLEAR OF MORTAR JOINTS.
 4. ANCHOR LOCATIONS MUST CLEAR INTERIOR WALLS OF CMU.

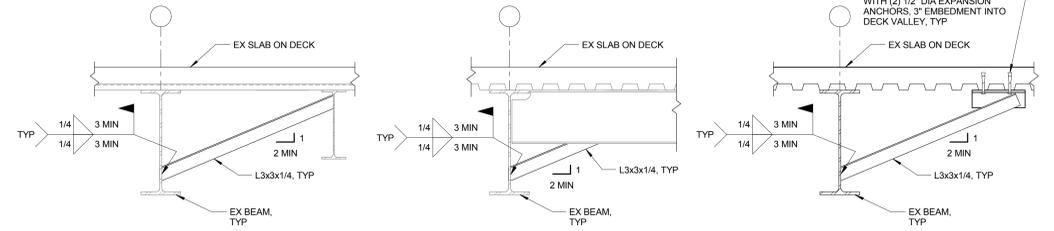
4 ACCEPTABLE LOCATIONS FOR POST-INSTALLED ANCHORS IN CMU WALLS
SF-401 N.T.S.



5 TYPICAL REBAR POSITIONERS
SF-401 N.T.S.



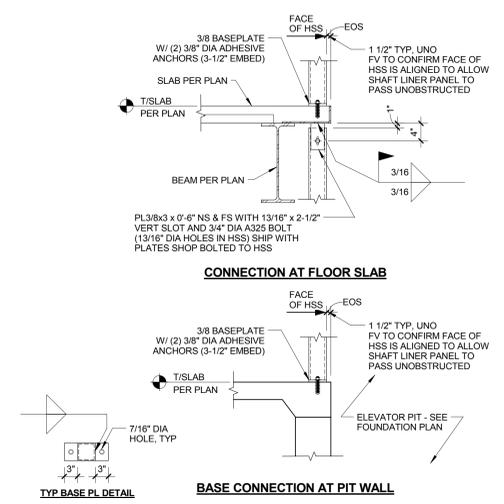
6 SECTION OF SKYLIGHT TO CONNECTOR BUILDING
SF-401 N.T.S.



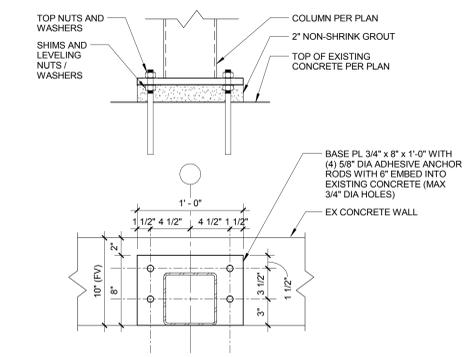
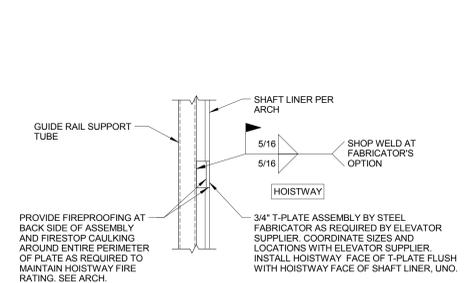
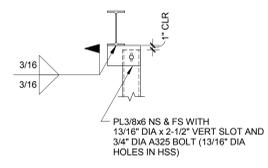
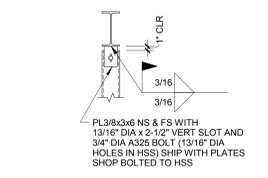
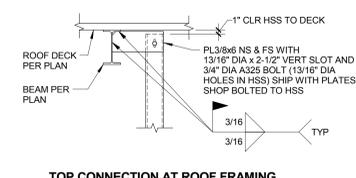
7 BRACED FRAME BEAM BRACING DETAIL
SF-401 N.T.S.

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<p>CONSULTANTS:</p> <p>Baysinger Design Group, Inc. 1331 West 12th Street, Suite 100B Mason, Illinois 62450 Phone: 618-990-8815 Fax: 618-990-8812 www.baysingerdesign.com</p> <p>AMERICAN STRUCTUREPOINT INC. 7260 Grandstand Station, Indianapolis, IN 46256 Tel: 317-542-5500, Fax: 317-542-9270 www.structurepoint.com</p>		<p>PROJECT MANAGER:</p> <p>Raleigh, NC Indianapolis, IN Pittsburgh, PA Virginia Beach, VA Fort Collins, CO</p> <p>APOGEE Consulting Group Engineers Architects www.acgp.com 919-858-7420</p>		<p>Project Number: 16-198 Scale: AS INDICATED</p> <p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>		<p>Drawing Title: SUPERSTRUCTURE SECTIONS AND DETAILS</p> <p>Location: MARION VAMC MARION, IL, 62959</p>		<p>Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42</p> <p>Approved: Project Director</p> <p>Date: 09/06/17 Checked: DGC Drawn: JHC</p>		<p>VA PROJECT NUMBER: 657-343 Building Number: 42 Drawing Number: SF-401 Dwg. 23 of 28</p>	
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NOTES:
 1. SEE PLANS FOR FRAMING CONDITIONS AT BASE AND TOP OF HSS.
 2. COORDINATE LOCATIONS OF ALL REQUIRED SUPPLEMENTAL SUPPORTS WITH ELEVATOR CONTRACTOR AND SHAFT WALL CONTRACTOR PRIOR TO INSTALLATION.



1 ELEVATOR SUPPLEMENTAL GUIDE RAIL SUPPORTS
 SF-500 N.T.S.

2 TYP COLUMN BASE PL DETAIL ON EX WALL OR PIER
 SF-500 N.T.S.

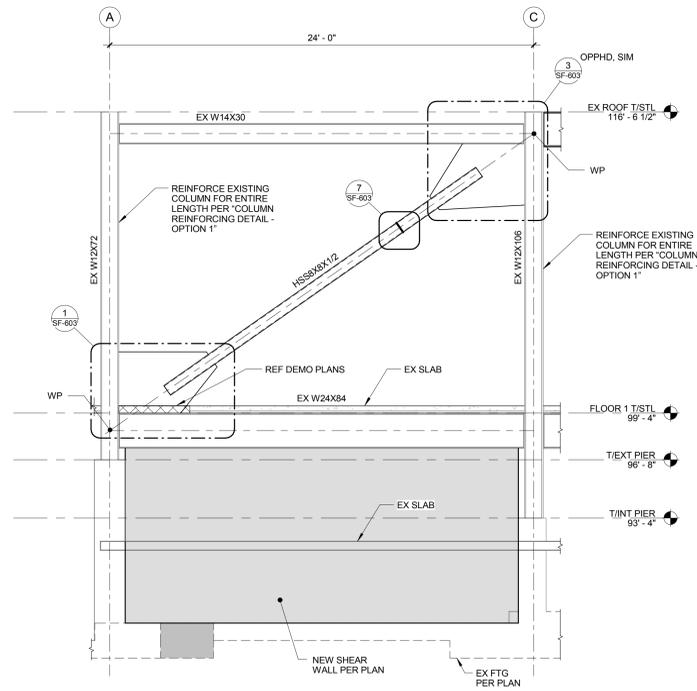
COLUMN SCHEDULE									
EX ROOF T/STL									EX ROOF T/STL
116' - 6 1/2"	HSS60x12	HSS60x12	HSS60x12	HSS60x14	HSS60x12	HSS60x12	HSS60x12	HSS60x12	116' - 6 1/2"
FLOOR 1 T/STL									FLOOR 1 T/STL
99' - 4"	T/PIER 97' - 10" (FV EX BRG PL EL)	T/PIER 97' - 10" (FV EX BRG PL EL)	T/WALL 99' - 4"		T/FTG 99' - 4"	T/WALL 99' - 4"	T/WALL 99' - 4"	T/WALL 99' - 4"	99' - 4"
Column Locations	AA-15.2	AA-16.3	AA-5-15.2	AA-5-15.8	AD-16.3	AD-1-15.2	AD-1-15.8		

NOTE: SEE DETAIL 15/S400 FOR COLUMN CAP PLATES

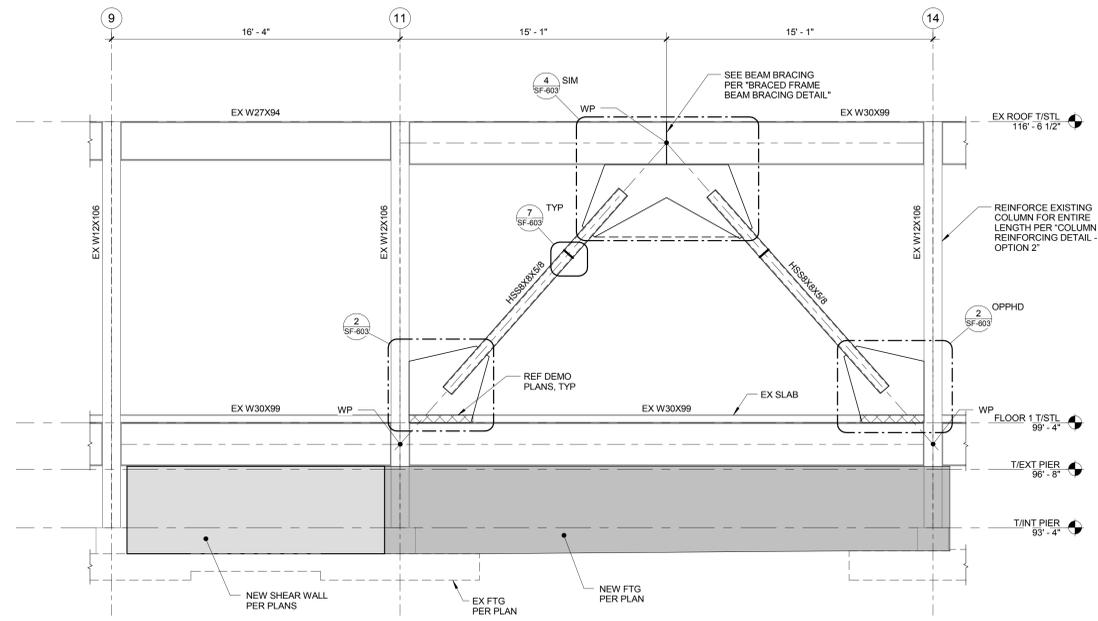
1 COLUMN SCHEDULE
 N.T.S.

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CONSULTANTS: 1311 West DuSoyne Street, Suite 100B Mason, Illinois 62450 Phone: 618-998-8815 Fax: 618-998-8812 Email: Design@baysinger.com www.baysinger.com	 7240 Grandstand Station, Indianapolis, IN 46256 Tel: 317-540-5500 Fax: 317-540-9270 www.structurepoint.com	PROJECT MANAGER: Raleigh, NC Indianapolis, IN Pittsburgh, PA Virginia Beach, VA Fort Collins, CO 919-858-7420	Project Number 16-198 Scale AS INDICATED	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title: COLUMN SCHEDULE	Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42	VA PROJECT NUMBER 657-343
					Location: MARION VAMC MARION, IL, 62959	Approved: Project Director	Building Number 42
Revisions:	Date	Date: 09/06/17	Checked: DGC	Drawn: JHC	Drawing Number SF-500	Drawing Number 42	Drawing Number SF-500



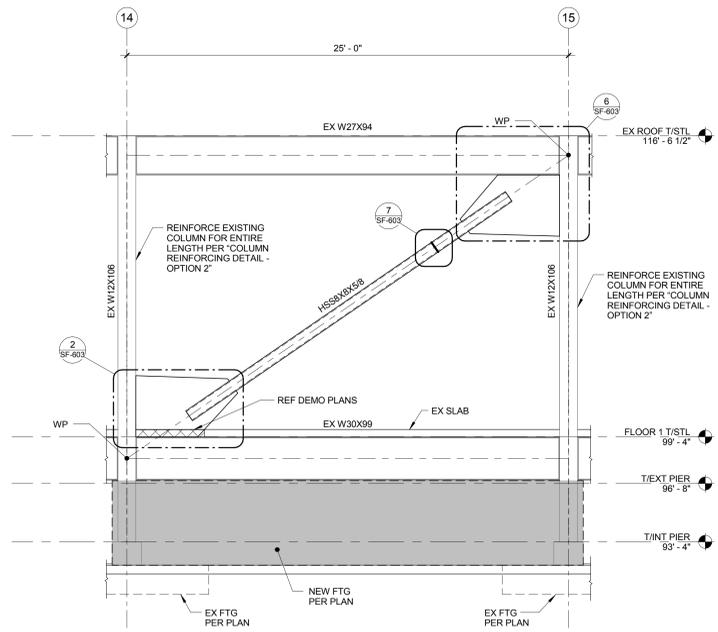
1 SF-600_1
 N.T.S.
 NOTES:
 1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.



2 SF-600_2
 N.T.S.
 NOTES:
 1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.

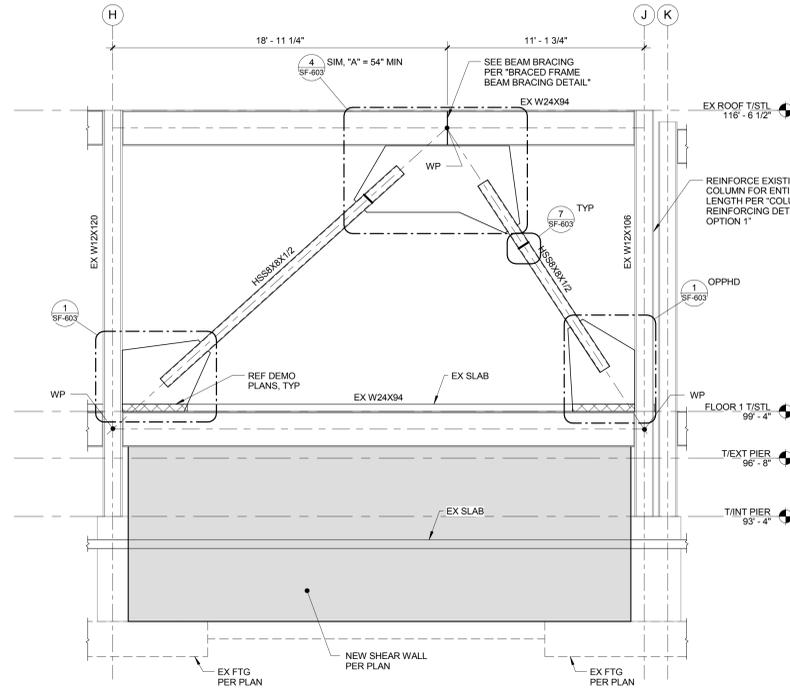
100% CONSTRUCTION DOCUMENTS

Revisions:	Date	CONSULTANTS:			PROJECT MANAGER: Raleigh, NC Indianapolis, IN Pittsburgh, PA Virginia Beach, VA Fort Collins, CO 919-858-7420	Project Number 16-198 Scale AS INDICATED	Office of Construction and Facilities Management 	Drawing Title: BRACED FRAME		Project Title: ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42		VA PROJECT NUMBER 657-343	
		Baysinger Design Group, Inc. <small>1311 West 12th Street, Suite 1000 Mason, Illinois 62550 Phone: 618-992-8115 Fax: 618-992-8152 Email: info@baysingerdesign.com</small>						AMERICAN STRUCTUREPOINT INC. <small>7260 Grandstand Station, Indianapolis, IN 46256 Tel: 317-543-5500 Fax: 317-543-0270 www.structurepoint.com</small>		Location: MARION VAMC MARION, IL, 62959		Approved: Project Director Date: 09/06/17 Checked: DGC Drawn: JHC	



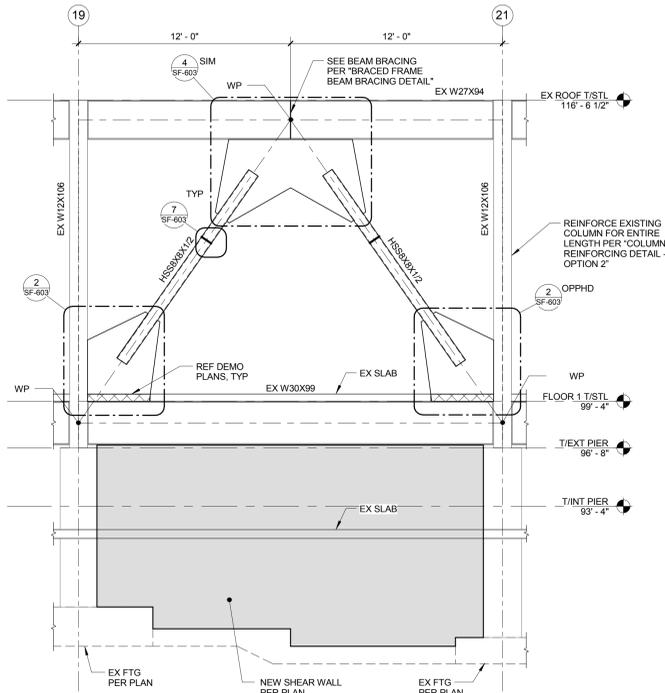
1 SF-601 FRAME C (LINE J)

NOTES:
1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.



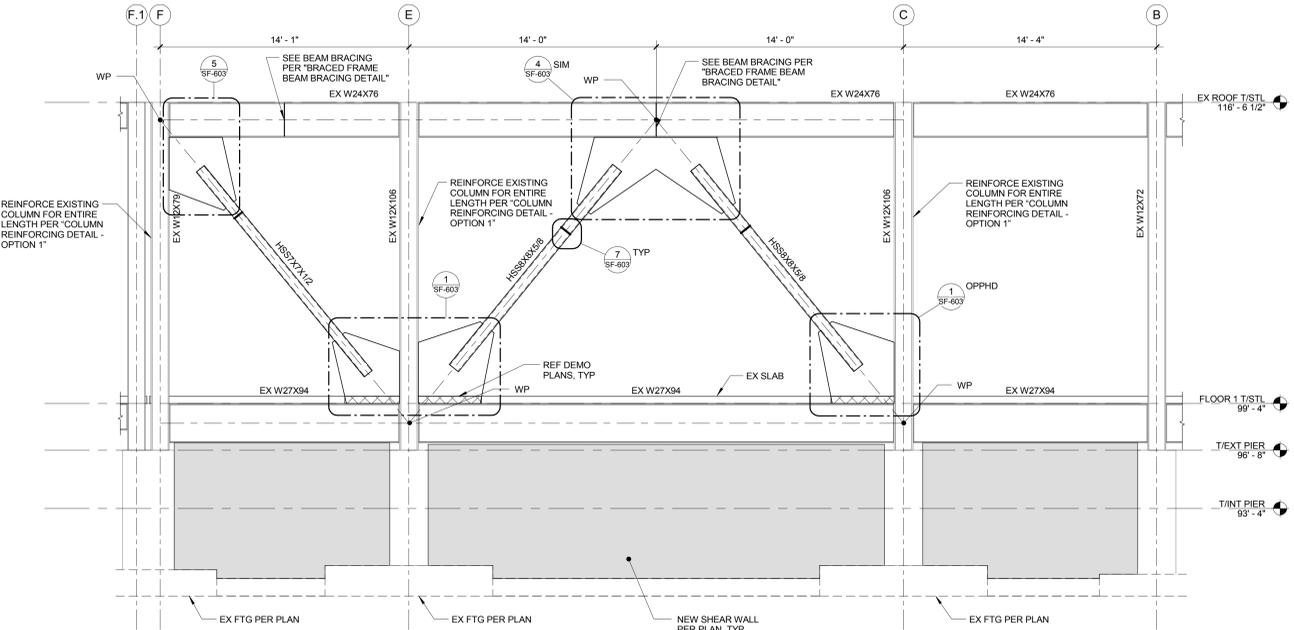
2 SF-601_2

NOTES:
1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.



3 SF-601 FRAME L (LINE J)

NOTES:
1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.



4 SF-601 FRAME M (LINE 24)

NOTES:
1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.

100% CONSTRUCTION DOCUMENTS

Revisions:	Date

CONSULTANTS:

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Raleigh, NC
Indianapolis, IN
Pittsburgh, PA
Virginia Beach, VA
Fort Collins, CO

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

BRACED FRAME

Location: **MARION VAMC MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

Date: 09/06/17

Checked: DGC

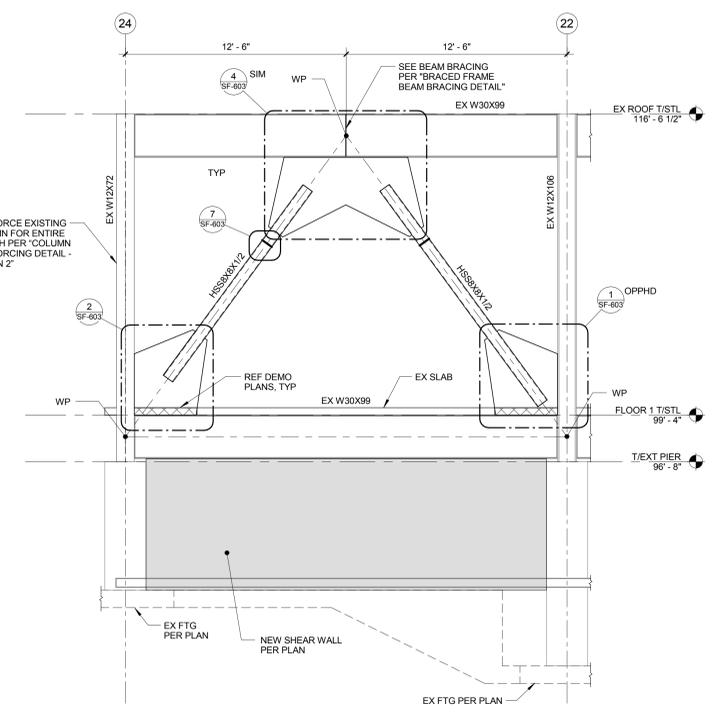
Drawn: JHC

VA PROJECT NUMBER: 657-343

Building Number: 42

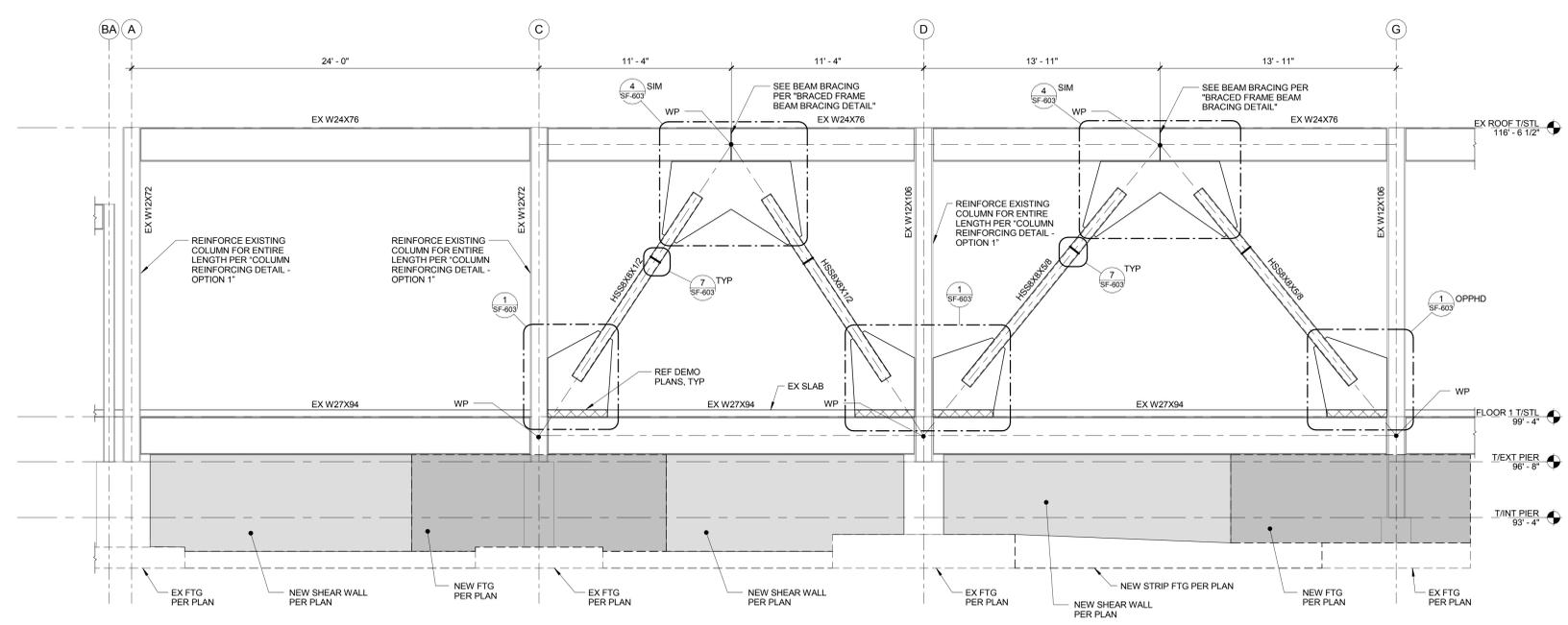
Drawing Number: **SF-601**

Dwg. 26 of 28



1 SF-602 FRAME N (LINE A)

NOTES:
1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.



2 SF-602 FRAME Q (LINE 7)

NOTES:
1. SEE "PROTECTED ZONE OF BRACED FRAME DETAIL" FOR ADDITIONAL REQUIREMENTS.

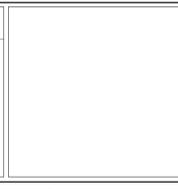
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Revisions:	Date

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PROJECT MANAGER:

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Raleigh, NC
Indianapolis, IN
Pittsburgh, PA
Virginia Beach, VA
Fort Collins, CO

Project Number: 16-198
Scale: AS INDICATED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **BRACED FRAME**

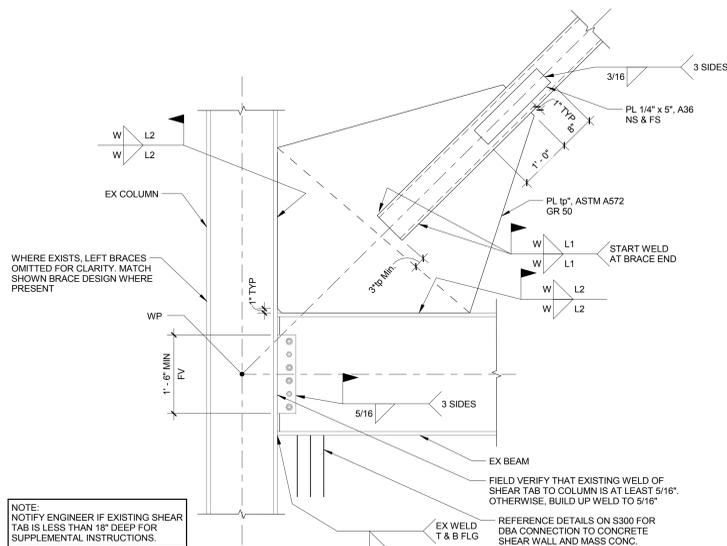
Location: **MARION VAMC
MARION, IL, 62959**

Project Title: **ADD STRUCTURAL IMPROVEMENTS TO BUILDING 42**

Approved: Project Director

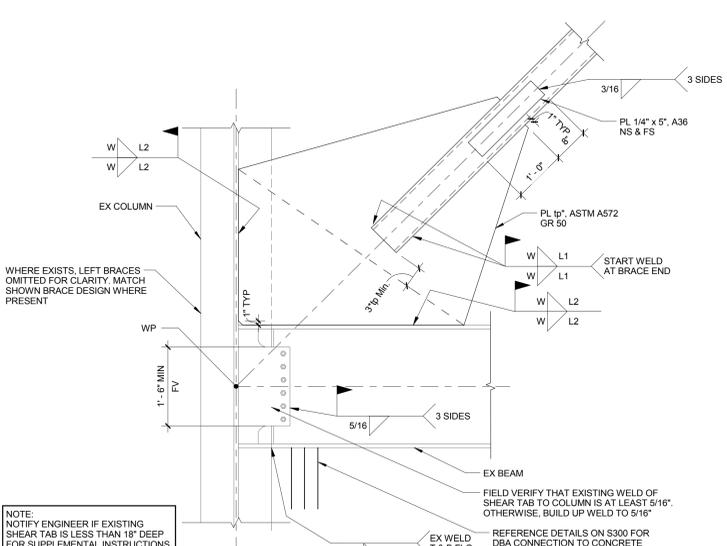
Date: 09/06/17
Checked: DGC
Drawn: JHC

VA PROJECT NUMBER: 657-343
Building Number: 42
Drawing Number: **SF-602**
Dwg. 27 of 28

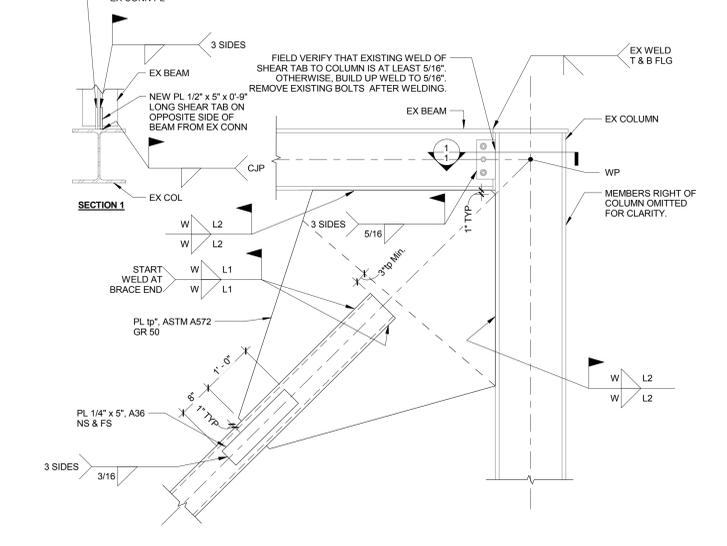


BRACE	AXIAL FORCE (K)	L1 (IN)	L2 (IN)	tp (IN)	W (IN)
HSS8x6x5/8	704	36	42	1 1/4"	5/8"
HSS8x8x1/2	580	37	42	1"	1/2"
HSS7x7x1/2	498	32	36	1"	1/2"
HSS6x6x1/2	418	27	32	1"	1/2"

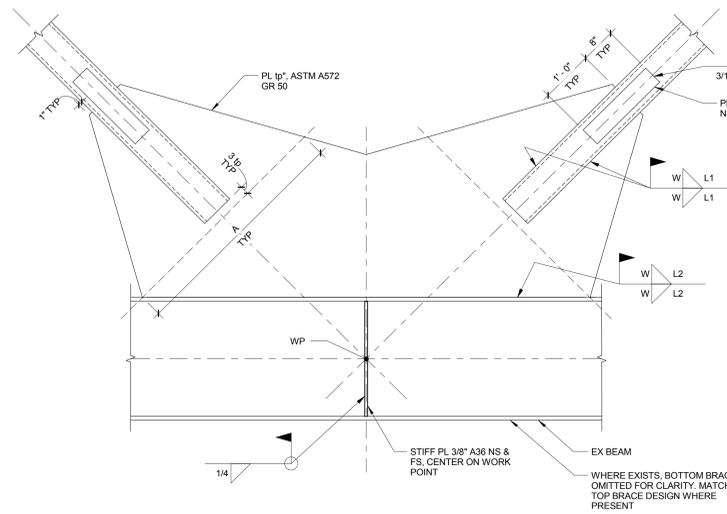
1 BRACE DETAIL
SF-603 N.T.S.



2 BRACE DETAIL
SF-603 N.T.S.

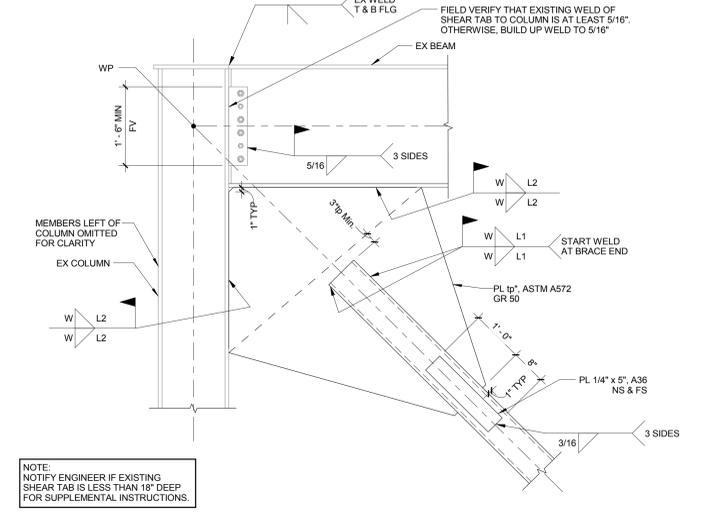


3 BRACE DETAIL
SF-603 N.T.S.

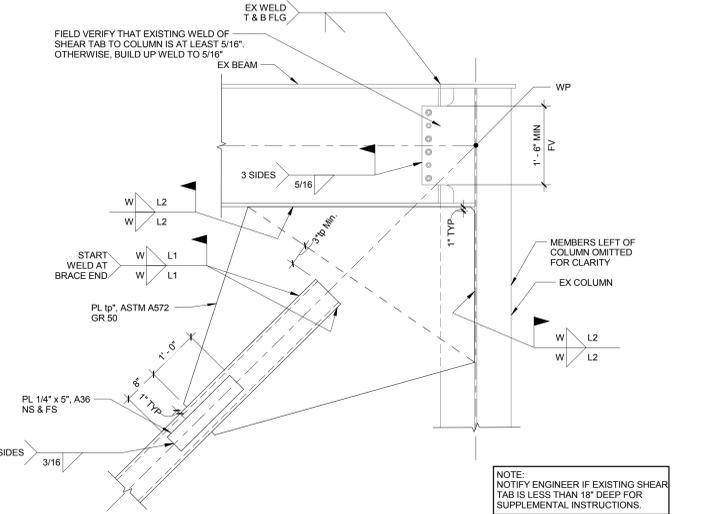


BRACE	AXIAL FORCE (K)	L1 (IN)	L2 (IN)	A (IN)	tp (IN)	W (IN)
HSS8x6x5/8	704	28	80	28 MIN	1 1/4"	5/8"
HSS8x8x1/2	580	30	72	46 MIN	1"	1/2"
HSS7x7x1/2	498	24	62	40 MIN	1"	1/2"
HSS6x6x1/2	418	20	52	32 MIN	1"	1/2"

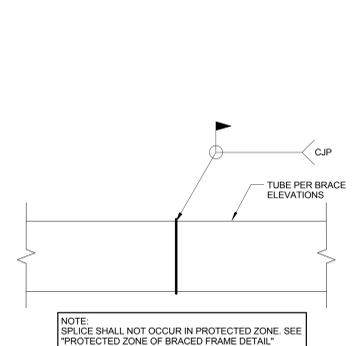
4 BRACE DETAIL
SF-603 N.T.S.



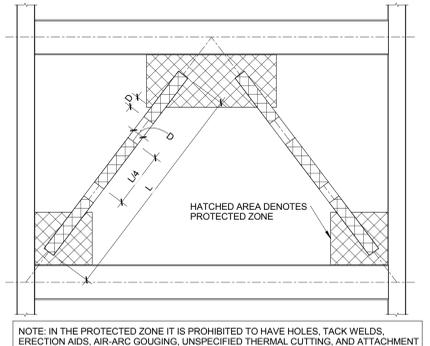
5 BRACE DETAIL
SF-603 N.T.S.



6 BRACE DETAIL
SF-603 N.T.S.



7 BRACE SPLICE DETAIL
SF-603 N.T.S.



8 PROTECTED ZONE OF BRACED FRAME DETAIL
SF-603 N.T.S.

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					Location: MARION VAMC MARION, IL, 62959	Approved: Project Director	Building Number 42	Drawing Number SF-603
Revisions:	Date	Date: 09/06/17	Checked: DGC	Drawn: JHC	Date: 09/06/17	Checked: DGC	Drawn: JHC	Dwg. 28 of 28