GENERAL STRUCTURAL AND CONSTRUCTION NOTE

A. CODES AND STANDARDS:

- THE FOLLOWING CODES AND STANDARDS SHALL APPLY TO THE DESIGN, CONSTRUCTION, AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.
- a. New York CITY BUILDING CODE, 2014 EDITION.
 b. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)", AMERICAN CONCRETE INSTITUTE.
 c. "MANUAL OF STEEL CONSTRUCTION LOAD AND RESISTANCE FACTOR DESIGN," AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCLUDING SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
 d. LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
 e. "STRUCTURAL WELDING CODE ANSI/AWS D1.1", AMERICAN WELDING SOCIETY.
 f. "SDI MANUAL OF CONSTRUCTION WITH STEEL DECK No. MOC1," STEEL DECK INSTITUTE
 g. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530.1-08/ASCE 5-08/TMS 602-08)."

DESIGN LOADS

2 DEAD LOAD
SUPERIMPOSED DEAD LOAD
LIVE LOAD
OFFICE (1ST FLOOR)
OFFICE (2ND FLOOR) PER MATERIAL 45 PSF 100 PSF 50 PSF 20 PSF SELF

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- WIND GROUND SNOW LOAD, Pg
 FLAT ROOF SNOW LOAD, Pf
 SNOW EXPOSURE FACTOR, Ce
 SNOW LOAD IMPORTANCE FACTOR, I
 THERMAL FACTOR, Ct SNOW LOAD GROUND SNOW FLAT ROOF SNO INTERNAL PRESSURE COEFFICIENT COMPONENTS AND CLADDING BASIC WIND SPEED
 WIND IMPORTANCE FACTOR, I
 OCCUPANCY CATEGORY
 WIND EXPOSURE 98 MPH 1.0 +/-0.18 (ENCLOSED) ASCE 7-05
- THQUAKE DESIGN DATA
 SEISMIC IMPORTANCE FACTOR I
 OCCUPANCY CATEGORY
 SPECTRAL RESPONSE COEFFICIENTS RESPONSE MODIFICATION FACTOR R ANALYSIS PROCEDURE CLASS

 MIC DESIGN CATEGORY

 SEISMIC—FORCE—RESISTING SYSTEM: || | Sds=0.294, Sd1=0.117 | D LONG DIRECTION: EXISTING UNREINFORCED MASONRY + NEW INTERMEDIATE REINFORCED CMU SHORT DIRECTION: STEEL OMF 3.0 EQUIVALENT LATERAL FORCE PROCEDURE

EART

C. MATERIALS:

- THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE USED FOR THE APPROPRIATE
- CEMENT: ASTM C150; TYPE I OR III
- AGGREGATES: ASTM C33 (NORMAL WEIGHT)
 ASTM C330 (STRUCTURAL LIGHTWEIGHT)
- CONCRETE: ALL CONCRETE SHALL BE AIR-ENTRAINED 5%±1% BY VOLUME, ADMIXTURE TO COMPLY WITH ASTM C260. AIR-ENTRAINING

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REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS	CAST-IN-PLACE CONCRETE COVER	LIGHTWEIGHT FILL ON METAL DECK	FOOTINGS, FOUNDATION WALLS AND GRADE BEAMS	SLAB ON GRADE	APPLICATION	
		3500	4000	4000	PSI	F'c @ 28 DAYS
		115	145	145	(PCF)	WT
		0.50	0.45	0.50		W/C (MAX)

- NOTED OTHERWISE (NON-POST-TENSIONED): CONCRETE CAST AGAINST AND
- PERMANENTLY EXPOSED TO EARTH
 CONCRETE EXPOSED TO EARTH OR WEATHER
 #6 BARS AND LARGER
 #5 BARS AND SMALLER
 CONCRETE NOT EXPOSED TO WEATHER OR IN
 CONTACT WITH GROUND SLABS, WALL, JOISTS:
 #11 BARS AND SMALLER
 BEAMS, COLUMNS:
 PRIMARY REINFORCEMENT, TIES OR IN JOISTS: 2" 1½" 3/₄"
- STIRRUPS, SPIRALS

 SLABS CAST AGAINST MUD SLAB

 LIGHTWEIGHT CONCRETE SHALL BE BATCHED AND MIXED AS SPECIFIED IN ACI 301 SECTION 7.4.
 PRESOAK AGGREGATES AS REQUIRED TO COMPLY WITH THIS SPECIFICATION AND TO FACILITATE CONCRETE PUMPING.
- REINFORCEMENT:
- DEFORMED REINFORCING BARS WELDABLE DEFORMED REINF. BARS WELDED WIRE FABRIC (WWF) A615, A706 A185 GRADE

6.

STRUCTURAL SHAPES (EXCEPT W SHAPES) & PLATES HIGH STRENGTH STRUCTURAL STEEL (W SHAPES) RECTANGULAR HOLLOW STRUCTURAL SHAPES HIGH STRENGTH BOLTS ANCHOR BOLTS HEADED SHEAR STUDS WELDING ELECTRODES ADHESIVE ANCHORING SYSTEM ASTM A36
ASTM A992, GRADE 50, Fy=50KSI
ASTM A500, GRADE B, Fy=46ksi
ASTM A325 OR A490
ASTM F1554 GRADE 36
ASTM A108
AWS A5.1 OR A5.5, E70XX
ITW RAMSET/REDHEAD EPCON SYSTEM,
HILTI HVA SYSTEM OR APPROVED EQUAL
ASTM A446

GALVANIZED METAL DECK

- TYPICAL DETAILS APPLY REPETITIVELY ON THE PROJECT. CONTRACTOR SHALL COORDINATE THE GENERAL REQUIREMENTS OF TYPICAL DETAILS WITH PROJECT CONDITIONS, PLANS, SPECIFICATIONS, AND SECTIONS.
- ? REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOPDRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
- ġ.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.
- IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- DIMENSIONS SHALL NOT BE SCALED FROM THE STRUCTURAL CONTRACT DRAWINGS
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL ADJACENT BUILDINGS FROM DAMAGE AND ENSURE THEIR STABILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER OF ADJACENT BUILDING BEFORE ANY CONSTRUCTION ACTIVITIES BEYOND PROPERTY LINE.

- Ω. SEE THE SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.
- Þ. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
- THE SOIL UNDER THE SLAB SHALL BE COMPACTED TO HIGH DENSITY EQUIVALENT TO A MINIMUM OF 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, CURBS, STREETS, ETC. FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL NOT DISPOSE OF ANY LIQUIDS, SLURRY, SPOILS OR CHEMICALS ON THE SITE EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL RESOURCES OR OTHER AGENCIES HAVING JURISDICTION.

REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR COMPACTED STRUCTURAL FILL. REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THISWORK. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.

CONCRETE:

CAST-IN-PLACE:

- LIGHTWEIGHT CONCRETE SHALL BE BATCHED AND MIXED AS SPECIFIED IN ACI 301 SECTION 7.4. PRESOAK AGGREGATES AS REQUIRED TO COMPLY WITH THIS SPECIFICATION AND TO FACILITATE CONCRETE PUMPING.
- Ġ NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
- CORE DRILLING OF FOUNDATIONS, BEAMS, JOISTS OR SLABS, SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE DESIGNER.
- **.**
- CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL WITHIN TOLERANCE TO THE ELEVATION INDICATED ON THE DRAWINGS. NOMINAL SLAB THICKNESS IS INDICATED. ACTUAL SLAB THICKNESS MAY VARY DUE TO BEAM AND DECK DEFLECTIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE AS NECESSARY TO MAINTAIN A LEVEL SLAB SURFACE AT THE ELEVATION INDICATED.

- ALL MORTAR SHALL BE ASTM C270, TYPE M. MINIMUM TO BE 2,000 PSI AT 28 DAYS. AVERAGE COMPRESSIVE STRENGTH OF MORTAR
- ALL GROUT UNDER STEEL BEARING PLATE SHALL BE HIS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,1 ACCORDANCE WITH ASTM C-109.

- THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS, AS PERTHE RELEVANT CODE. IT THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.
- ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE OR OTHER LACK OF CONFORMANCE WITH THE PROJECT TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE
- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, ETC.
- THE CONTRACTOR IS RESPONSIBLE FOR THE "MEANS AND METHODS" OF CONSTRUCTION FOR THE COMPLETION OF THE WORK, AND BE RESPONSIBLE FOR ADEQUATELY BRACING, SHORING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE. SHORING AND BRACING REQUIREMENTS SHALL BE DESIGNED, FABRICATED AND INSTALLED BY THE CONTRACTOR.

FOUNDATIONS & STRUCTURAL EARTHWORK:

1. GENERAL:

- ٩ ALL FOUNDATIONS SUSCEPTIBLE TO FROST SHALL BEAR A MINIMUM OF 4'-0" BELOW GRADE. IN CASE OF CONFLICT, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.
- Ģ THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO ADEQUATELY UNDERPIN, SHORE, BRACE, NEEDLE AND SUPPORT ALL ADJACENT EXISTING CONSTRUCTION WHOSE INTEGRITY MAY BE AFFECTED BY THE EXECUTION OF THIS WORK UNTIL NO LONGER REQUIRED. THE CONTRACTOR SHALL ENGAGE A LICENSED PROFESSIONAL ENGINEER TO PROVIDE PLANS AND DETAILS, TO INSPECT, TO OBTAIN APPROVAL AND TO FILE REPORTS OF ALL SHORING, UNDERPINNING, NEEDLING, BRACING OR OTHER PROCEDURES AS REQUIRED BY THE BUILDING DEPARTMENT AND THE BUILDING CODE ANY DAMAGE DUE TO THE EXISTING STRUCTURES OR ADJACENT AREAS DUE TO NEGLIGENCE SHALL BE RECTIFIED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

STRUCTURAL FILL:

- ġ
- NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE DESIGNER. MAKE BARS CONTINUOUS AROUND CORNERS. WHEN PERMITTED, SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICES, UNLESS OTHERWISE NOTED.
- ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. DRILLED OR POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE DESIGNER THAT THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE INSERTS.
- WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ANCHORS.

G. MASONRY:

- CONCRETE BLOCK SHALL BE OF NORMAL WEIGHT AGGREGATE, AND SHALL CONFORM TO THE FOLLOWING STANDARDS: HOLLOW BLOCK ASTM C90, GRADE N1 (f'm=2,000 PSI ON NET AREA)
- GH STRENGTH NON-SHRINK GROUT, AND 000 PSI AT 28 DAYS, AS MEASURED IN

- Provide bond beams with 2-#4 horizontal reinforcement continuous in all masonry walls at each framing level.
- ALL PIERS AND PARTITIONS SHALL BE BONDED OR ANCHORED TO ADJACENT MASONRY WALLS. PROVIDE TIES TO ADJACENT FLOOR AND ROOF CONSTRUCTION IN ACCORDANCE WITH DETAILS ON DRAWINGS.
- IN MULTIPLE WYTHE WALLS (CAVITY AND COMPOSITE WALLS), BOND THE WYTHES TOGETHER WITH RIGID METAL TIES OR PREFABRICATED JOINT REINFORCEMENT CONFORMING TO ACI 530/ASCE 5 REQUIREMENTS.COMPLETELY FILL ALL COLLAR JOINTS IN COMPOSITE WALLS WITH MORTAR OR GROUT.

- SUBMIT GROUT MIX DESIGN & MASONRY UNIT CERTIFICATIONS TO THE DESIGNER FOR APPROVAL
- CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SUPPORT FOR ALL MASONRY WORK UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
- SEE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR GENERAL CONTROL JOINT REQUIREMENTS. JOINTS ARE TO BE CONSTRUCTED IN ALL WALLS AND PARTITIONS.
- PROVIDE GALVANIZED STEEL W-SHAPE LINTELS AT EXTERIOR WALLS. PROVIDE MINIMUM 8" BEARING EACH END.

W8x24 SEE DRAWINGS

- NO OPENINGS SHALL BE PLACED ABOVE ANY LINTEL WITHIN A HEIGHT LESS THAN OR EQUAL TO THE WIDTH OF THE CLEAR OPENING BELOW THE LINTEL, UNLESS SPECIFICALLY SHOWN OR APPROVED BY THE DESIGNER.
- THE CONTRACTOR SHALL PROVIDE LATERAL BRACING AT 4'-0" O/C AT THE TOP OF ALL INTERIOR CMU WALLS. LATERAL BRACING SHALL RESIST A HORIZONTAL FORCE OF 200 LBS PER LINEAR FOOT OF WALL. THE CONTRACTOR SHALL SUBMIT DETAILS FOR ALL CONDITIONS WITH CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR REVIEW.

STRUCTURAL STEEL:

- ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS.
- THE GENERAL CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
- MIN. NO. OF Ø3/4" ." A325N BOLTS 2

- STEEL MEMBERS ENCASED IN CONCRETE SHALL NOT BE PAINTED. ALL OTHER STEEL MEMBERS SHALL BE PAINTED AS PER SPECIFICATIONS.
- STEEL MEMBERS ENCASED IN CONCRETE SHALL HAVE CLIPS OR WIRE MESH WRAPPING UNLESS OTHREWISE SHOWN.
- 0 ALL SHEAR CONNECTORS TO BE 3/4 IN DIAMETER METAL STUDS FOR COMPOSITE BEAMS AND GIRDERS, UON.LENGTH OF STUD SHALL BE $1\!-\!1/2$ IN MORE THAN THE DEPTH OF THE METAL DECK

STEEL DECK:

STRUCTURAL ENGINEER

8534 GRAND AVE. 2nd FL. ELMHURST, NY 11373 TEL: (718)502–9631 FAX: (718)228–7348 WEB: WWW.TBES.US EMAIL: INFO@TBES.US

TIMES BUILDINGS PC Engineering services

DECK PROPERTIES ARE BASED ON PRODUCTS MANUFACTURED BY UNITED STEEL DECK, INC. (USD). DECKS BY OTHER MANUFACTURERS MAY BE SUPPLIED PROVIDED SECTION PROPERTIES ARE WITHIN 5% OF THOSE SPECIFIED AND IF APPROVED BY THE DESIGNER. ALL DECK SHOULD BE GALVANIZED, SEE SPECIFICATIONS.

INSTALL IN ACCORDANCE WITH SDI SUGGESTED SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS. INDIVIDUAL SHEETS SHALL EXTEND OVER AT LEAST THREE SPANS, WITH LAPS TO BE PLACED OVER SUPPORTS.

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- IN GROUTED AND/OR REINFORCED MASONRY WALLS, USE MASONRY UNITS WITH CORES THAT ALIGN VERTICALLY TO PROVIDE CONTINUOUS UNOBSTRUCTED CELLS FOR GROUTING AND REINFORCING STEEL PLACEMENT.
- LAP SPLICES FOR DEFORMED REINFORCING BARS USED IN MASONRY CONSTRUCTION SHALL BE 50 BAR DIAMETERS.

- ALL WALL SECTIONS LESS THAN 4 FEET IN LENGTH AND PIERS LESS THAN 4 SQUARE FEET IN CROSS-SECTIONAL AREA TO BE FULLY GROUTED.

UP TO 12'-0" OVER 12'-0"

- THE CONTRACTOR SHALL VERIFY ALL OPENINGS BELOW LINTELS INDICATED ARE ADEQUATE TO ACCEPT DOORFRAMES, LOUVERS ETC. AS SHOWN ON THE ARCHITECTURAL & MECHANICAL DRAWINGS. NOTIFY THE DESIGNER OF ANY DISCREPANCIES PRIOR TO LINTEL INSTALLATION.

- ġ. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
- ALL CONNECTIONS, SPLICES AND ERECTION PIECES SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.
- MOMENT CONNECTIONS, SHALL BE DESIGNED FOR THE PLASTIC FLEXURAL STRENGTH (Mp) OF THE BEAM.
- SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED AND DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC LRFD MANUAL OF STEEL CONSTRUCTION. CONNECTIONS ARE TO BE DESIGNED USING REACTIONS CALCULATED FROM "MAXIMUM FACTORED UNIFORM LOAD" TABLES (AISC), WITH A MINIMUM FACTORED REACTION OF 30 KIPS. MINIMUM WELD 3/16" FILLET. MINIMUM NUMBER OF BOLTS PER CLIP ANGLE OR SINGLE PLATE CONNECTION:
- BEAM SIZE W8,W10 W12,W14 W16,W18
- 9 FOR COMPOSITE BEAMS, REACTIONS CALCULATED FROM "MAXIMUM FACTORED UNIFORM LOAD" TABLES (AISC) SHALL BE INCREASED BY A FACTOR OF 1.75. COMPOSITE GIRDERS' REACTIONS SHALL BE INCREASED BY A FACTOR OF 1.5.
- UNLESS OTHERWISE NOTED, ALL A325 BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.
- PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMENDED ERECTION PROCEDURES.
- CONCRETE SLABS THAT ARE PART OF COMPOSITE FLOOR FRAMING SYSTEMS SHALL ACHIEVE 28-DAY DESIGN STRENGTH PRIOR TO THE APPLICATION OF ANY SUPERIMPOSED LOADS SUCH AS CURTAIN WALLS, MASONRY VENEERS AND STAIRS.
- WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE DESIGNER.
- WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE DESIGNER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.

- PROVIDE STANDARD WEIGHT GALVANIZED HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AND PARTITIONS AT 16 INCHES O.C. UNLESS OTHERWISE SHOWN OR NOTED. PROVIDE ONE PIECE PREFABRICATEDUNITS AT 8 INCHES O.C. AT ALL WALL CORNERS AND INTERSECTIONS.
- PROVIDE MASONRY ANCHORS AT 16 INCHES O.C. SET ON COURSING AND ATTACHED TO ALL BEAMS, COLUMNS, PARTITIONS AND WALLS ABUTTING OR EMBEDDED IN MASONRY.

- COMF POSITE DECKS SHALL BE WELDED TO ALL SUPPORTS INCLUDING THE EDGE PORT PARALLEL TO THE DECK SPAN WITH 3/4 INCH DIAMETER (EFFECTIVE FUSION IETER) PLUG WELDS OR HEADED STUD WELDS AT 12" O.C. FASTEN SIDE LAPS WITH /2 (SEAM WELDS OR #10 SELF—TAPPING SCREWS) AT MID SPAN. HEADED STUDS L BE FIELD INSTALLED BY WELDING THROUGH THE METAL DECK. REMOVE YULES FROM THE DECK BEFORE CONCRETE IS PLACED.

DE MOLITION:

- ALL WORK DEMOLITION AND REMOVAL SHALL BE DONE CAREFULLY AND NEATLY, IN A SYSTEMATIC MANNER.
- REQU REQU EXISTING SURFACES AND EQUIPMENT TO REMAIN SHALL FULLY PROTECTED FROM DAMAGE. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE AND SHALL MAKE REPAIRS JIRED WITHOUT ADDITIONAL COST TO THE OWNER.
- SHE I DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE SITE. DEBRIS SHALL BE REMOVED BY CONTRACTOR AS THE JOB PROCEEDS. THE SITE SHALL BE LEFT BROOM CLEAN AT THE PLETION OF DEMOLITION.
- SUR STRUCTURAL ELEMENTS SHALL BE REMOVED UNLESS PORTIONS AFFECTED ARE ADEQUATELY PORTED BY EITHER TEMPORARY SHORING OR NEW STRUCTURAL ELEMENTS AS REQUIRED TO ECT THE STABILITY AND INTEGRITY OF THE EXISTING STRUCTURE.
- CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL TEMPORARY BARRIER AND GUARDS, ALL TEMPORARY SHORING AND BRACING AS REQUIRED BY THE NEW YORK CITY BUILDING RULES AND REGULATIONS.

PROJECT

5614 3rd Brooklyn,

! Avenue, New York

NO.

DATE

DESCRIPTION

04/19/18

CONTRACTOR TO PREPARE PARTIAL DEMOLATION RELATED DRAWINGS INCLUDING SEGMENTS, PROTECTIONS, SAFETY & STABILITY, AND TEMPORARY SHORING, ETC.

$\overline{\lambda}$ COORDINATION:

- THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND STRUCTURAL DESIGN FOR THE PROJECT. ARCHITECTURAL DETAILS ARE SHOWN INCIDENTALLY ONLY AND NOT COMPLETELY.THEREFORE, ARCHITECTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH STRUCTURAL DRAWINGS DURING ALL PHASES OF CONSTRUCTION. VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN BEFORE COMMENCING COMMENCING WORK. DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHIECT FOR CLARIFICATION PRIOR TO COMMENCING THE WORK.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT GIVEN ON THE STRUCTURAL DRAWINGS.

NYC

DOB APPROVAL

GENERAL

NOTES

SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR GEOMETRY AND LOCATION OF OPENINGS IN THE FLOOR AND ROOF SLABS. SEE TYPICAL DETAILS DRAWING FOR FRAMING OF OPENINGS.

SPECIAL INSPECTIONS, PROGRESS INSPECTIONS AND QUALITY CONTROL

- SPECIAL INSPECTIONS AND PROGRESS INSPECTIONS AS PER THE NEW YORK CITY BUILDING CODE SHALL BE PERFORMED FOR ALL REQUIRED STRUCTURAL ITEMS, INCLUDING: STRUCTURAL STEEL WELDING (BC 1704.3.1)
- MASONRY SOILS -SUBGRADE INSPECTION CONCRETE TEST CYLINDERS (TR2) STRUCTURAL STABILITY CONCRETE - CAST-IN-PLACE STRUCTURAL STEEL -HIGH-STRENGTH BOLTING INVESTIGATION (BORING/TEST PITS) (BC1704.20) (BC1905.6) (BC1704.7.4) (BC1704.7.1) (BC1704.5) (BC1704.4) (BC 1704.3.3)
- 2. FORM TR-1 TECHNICAL REPORT: STATEMENT OF RESPONSIBILITY SHALL BE FILED WITH THE NEW YORK CITY DEPARTMENT OF BUILDINGS BY THE ENGINEER(S) DESIGNATED AND RETAINED BY THE OWNER TO PERFORM CONTROLLED INSPECTIONS IN EACH OF THE ABOVE MENTIONED CATEGORIES. THE OWNER SHALL HIRE AND PAY FOR THE TESTING AND INSPECTIONS FOR EACH OF THE ABOVE MENTIONED CATEGORIES.

FOOTING

AND FOUNDATION

CONCRETE DESIGN MIX (TR3)

(BC1905.3)

(BC109.3.1)

<u>LEGEND</u>:

INDICATE CMU WALL INDICATE NEW CONC. WALL/PIER INDICATE EXISTING WALI

В PA INDICATE POST ABOVE INDICATE MOMENT CONNECTION INDOCATE POST BELOW

8

INDICATE COLUMN ABOVE

INDICATE COLUMN BELOW

& SIGNATURE

NYC DOB NUMBER:

CHK BY:

J.W.

DRAWING BY: E.L.

PROJECT NO: 1700520

04-10-2017

S-100.01 1 OF 7











