#### 010000 GENERAL NOTES

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ACHITECTURAL. MECHANICAL. ELECTRICAL, PLUMBING, AND SITE DRAWINGS FOR OPENINGS, DEPRESSIONS, EDUPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWING UNCOLONG.

- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERRECTION PROCEDURES AND SECOURNET OF INSURING ESAFETY OF THE BUILDING AT ITS COMPONENTS DURING ERRECTION. THIS INCLUDES THE ADDITION OF NECESSA SHORING, SHEETING, TEMPORARY BRACHING, GUYS OR THE DOWN.
- DETAILS LIKE THE THE TOTAL OF THE DOWNS OF EDOWNS OF THE DOWNS OF THE PROJECT OF THE THE DOWNS OF THE DOWNS OF THE THE DOWNS OF THE DOWNS ON THE DOW
- THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY
- AND DISTALLATION OF ANY STRUCTURAL MEMBERS.

  THE CONTRICKS TREATMENT REPORTATION REPORTS REPRESENT THE
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- THE STEALTHAM, ENGINEERS OBLIGATIONS TO REFINE SHOP DOWNHIGH AND OTHER SEMBITIZES AND TO SETURISH THEM AN TIMELY MANNESS OR SUBMITIZES AND TO SETURISH THEM AN TIMELY MANNESS OR SUBMITIZES BY THE PROCHE REVIEW AND APPROVAL, OF THE SHOP DRAWNINGS ON SUBMITIZES BY THE OWNERS OF THE SEMBITIZES OF THE OWNERS AND SEMBITIZES OF THE SEMBITIZES OF THE VARIOUS SHAP DRAWNINGS AND SUBMITIZES.
- PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF TLC ENGINEERING SOLUTIONS, INC. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN CHEMPAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION, SHALL NOT BE CONSTRUCTOR AS EXHAUSTED OF CONTRIBUTOR TO CHECK THE QUALITY OR CHAUSTITY OF THE WORK.
- ALL STRUCTURES REQUIRE DETROIC MAINTENANCE TO DESCEID LES SON AND TO BESIDES STRUCTURAL INTEGRITY FROM DEPOSIBLE TO THE EMPORABLEM A FAMILY PROCRAM OF MAINTENANCE SONLI DE ESTABLISHED BY THE OWNER. THIS PROCRAM PROCRAM OF MAINTENANCE SONLI DE ESTABLISHED BY THE OWNER. THIS PROCRAM STRUCTURE OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER DEPASSION LIDITS, CONTROL LIDITS, STALLS AND CASCION OF CHICKETS, MAIN EMPRISON LIDITS, CONTROL LIDITS, STALLS AND CASCION OF CHICKETS, MAIN SEMPROMEMOR OF CORRESPONDED ON THE OWNER O
- STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRALS, CURTAIN WALLINWHOUW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTICING OF THE CONTRACT DOCUMENTS.
- NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS
- ELEVATIONS INDICATED ARE RELATIVE TO FIRST FLOOR ELEVATION OF 75'-0" (NGVD)
  PER CIVIL DRAWINGS, CONFIRM FINAL ELEVATION WITH CIVIL DRAWINGS.
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY MAY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER N. LEU OF FREEPARTON OF SHOP DRAWNS SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HINSELF TO ANY JOB DEPRINE, REAL OR MINIELD, ARRIVAND QUE TO ANY FERRORS THAT MAY COCUM REPRON.
- IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

#### 010001 BUILDING MOVEMENTS

- THE BUILDING MOVEMENT SPECIFIED HEREIN IS ANTICIPATED TO OCCUR AND SHOULD BE CONSIDERED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK.
- THE FOLLOWING PROVISION FOR SUPERIMPOSED LOAD DEFLECTIONS SHALL BE MADE IN THE DESIGN, FABRICATION, AND INSTALLATION OF ALL PARTITIONS, CLASS WALLS, AND OTHER ELEMENTS SUPPORTED BY AND ATTACHED TO THE STRUCTURE.
- A. TYPICAL FLOOR MEMBERS SPAN/360 BUT NOT LESS THAN 3/6"
- B TYPICAL BOOF MEMBERS SPANSON BUT NOT LESS THAN 3/8"

STORY DRIFT: LATERAL FRAME DEFLECTION OF H/300 IN THE PLANE OF THE WALL OF ONE FLOOR RELATIVE TO AN ADJACENT FLOOR SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN, FABRICATION AND INSTALLATION OF THE BUILDING CLADDING.

# 010002 DESIGN LOADS

- THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 7th EDITION (2020), AND AS SUPPLEMENTED BY LOCAL AMENDMENTS.
- A. DEAD LOADS:

ROOF STRUCTURE	15 PSF
M/E/P LOADS	5 PSF
CEILINGS	5 PSF
8" CMU LOAD BEARING PARTITIONS	61 PSF
12" CMU LOAD BEARING PARTITIONS	103 PSF

ROOF FLOOR (OFFICE) FLOOR (ILIGHT STORAGE) FLOOR (RESIDENTIAL) FLOOR (APPARATUS BAY) STAIRS AND EXITS

C. WIND LOADS: PER FLORIDA BUILDING CODE, SECTION 1609.

SEE SHEET S1.3 FOR COMPONENTS AND CLADDING PRESSURE

SEISMIL LUNGS, PEN ASIGE 1109
SPECTRAL RESPONSE ACCELERATION,
SHORT DURATION SIGN
1,0 SECOND DURATION SIGN
1,0 SECOND DURATION SIGN
SEISMIC DESIGNATION
SEISMIC USE GROUP
SEISMIC DESIGN CATEGORY
SEISMIC IMPORTANCE FACTOR
LATERAL LONG PESISTING SYSTEM TYPE

#### 013100 REQUEST FOR INTERPRETATION

- RFI SHALL ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN CONTRACT DOCUMENTS. RFI SHALL BE SUBMITTED IN A PROMPT MANUFIED & TO AND DELAYS IN CONTRACTORS WORDS.

- ENGINEER SHALL TAKE UP TO 5 BUSINESS DAYS TO REVIEW AND RETURN RFIS. HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF ALL RFIS WITHIN A REASONABLE TIME FRAME.
- REPRESENTATION OF INTEREST TO AUTHORIZE MY INCREME IN CONSTITUCTION OF THE PROPERTY OF THE PRO

#### 013301 SHOP DRAWING REVIEW

- SICH PRAVINES DIMAL ARE DANTELY REPORT THE STRUCTURAL ELBERTS AND CONNECTIONS SECOND OF THE CONTENT DOLUMENTS SHOW OF THE CONTENT DOLUMENTS SHOW OF DRIVING WILL BE REVENUE DOR GENERAL COMPLANCE WITH THE DESIGN INTENT OF THE CONTENT OF CONTENT OF THE CONTENT OF
- SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECTEMORIEER. NON-CONFORMING DRAWING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
- THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
- CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PRRYOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE PROTECTION OF THE RESUBMITTAL SHALL BE CLEARLY NOTED ON THE RESUBMITTAL CONT

#### 013302 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS

- PREFABRICATED STEEL STAIRS
- B DDE-ENGINEEDED WOOD DOOF TRUSS SYSTEMS
- SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES LIST THE DESIGN CRITERIA. AND SNOW ALL DETAILS AND DRAWINGS MCESSARY FOR PROPER FAREACTION AND INSTALLATION. SHOP DRAWINGS AND CALCULATIONS SHALL DENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT SEA ACCEPTED.
- SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.
- DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL SHOP DRAWINGS OR STRUCTURAL STEEL SHOP DRAWINGS) AND REQUIRING NO ENGINEERING, DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
- CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
- REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERFYING THE FOLLOWING:
- THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
- THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.
- D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.
- SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED AND WILL BE RETURNED.

#### 013303 SUBMITTALS

- ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
- THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
  - ITEMS MARKED (D) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
  - ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEERS RECORD ONLY.
- A. STRUCTURAL STEEL
- B REINFORCING STEEL
- PREFABRICATED METAL PAN STAIRS (D)
- COMPOSITE METAL DECK
- DBC ENGINEERED WOOD BODE TRIES SYSTEMS ID-
- G MECHANICAL ANCHORS (8)
- H. CHEMICAL (ADHESIVE) ANCHORS (#)
- MANUFACTURER'S LITERATURE. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

LAKE COUNTY
FIRE STATION NO.71
STRUCTURAL LEGEND, G
INDEX
33601 CA 473, LESBURG, FL 34788 Set

& SHEET

GENERAL NOTES,

Jerome

TLC ENGINEERING THERE, LIGHTER, CHARTS,

BIM 360xR20073A - Leke County Fire Station 71/521157 Lake Co FS 71 STR R16.nt

S<sub>0.1</sub>

Α.	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.	ALL BARS 3*
В.	CONCRETE EXPOSED TO EARTH OR WEATHER	#6 OR GREATER 2" #5 OR SMALLER 1.5"
C.	CONCRETE NOT EXPOSED TO WEATHER OR IN CO SLABS, WALLS, AND JOISTS BEAMS AND COLUMNS	INTACT WITH GROUND #11 OR SMALLER 3/4" ALL BARS 1.5"

LOCATION AND CONDITION

- SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION
- PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS
- PROVIDE DOWELS INTO FOUNDATIONS, PLE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.
- LENGTH OF LAP SPLICES AND BAR EMBEDMENT SHALL BE AS SHOWN IN TABLE, UNLESS OTHERWISE NOTED:

T<12"	MS OR LESS	3000 PSI 57 Db	49 Db	5000 PSI 44 Db
	#7 OR MORE	71 Db	61 Db	55 Db
T>12*	#6 OR LESS	74 Db	65 Db	57 Db
	#7 OR MORE	81 Db	79 Db	72 Db

- WHERE "T" IS DEPTH OF CONCRETE UNDER BARS AND "DIS BAR DIAMETE UTILIZE CLASS "B" SPLICE FOR ALL SPLICES, U.N.O. ON PLANS OR DETAILS.
- WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO EXTEND DEEP ENDUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF THE HOOKED BAR, PROVIDE ADDITIONAL TIES OR STRENGTH IN SUPPORTING STRUCTURE AS REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE ORTRIEN.
- AT CANTILEVER SLABS AND BEAMS, REINFORCING BARS IN DIRECTION OF CANTILEVER SHALL BE DETAILED TO FULLY DEVELOP THE BAR STRENGTH INTO THE SUPPORTING STRUCTURE, EITHER BY PROVIDING FULL CLASS B LAP SPUICE OR STANDARD ACI. HOOKS EMBEDGED DEEP FORWARD HE PEYON SUPPORT TO DEVELOP STRENGTH OF BAR.

### 032004 WELDED WIRE FABRIC

- SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
- USE OF FLAT MANUFACTURED SHEETS IS REQUIRED (NO ROLLS).
- INSTALL WWF ON BRICKS OR BOLSTERS AT MID DEPTH OF SLAB U.N.O.; SPACING OF SUPPORTS SHALL BE ADEQUATE TO PREVENT SHIFTING OF WWF DURING CONSTRUCTION, BUT SHALL NOT EXCEED 24" O.C.

# 032201 FORMWORK AND SHORING NO STRUCTURAL CONCRETE SMALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28-DAY DESIGN STRENGTH.

DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.

#### 032202 CONSTRUCTION JOINTS

- ALTERNATE OR ADDED CONSTRUCTION JOINT LOCATIONS ARE ACCEPTABLE ONLY AS A CHANGE ORDER, WHICH WILL INCLUDE ENGINEERING CHARGES BY THE ENGINEER OF RECORD FOR REDESION OF THE STRUCTURE, SHORING, ETC.

### 032203 PLUMBING SLEEVES

- MINIMUM SLEEVE SPACING SHALL BE THREE DAMFERS CENTER TO CENTER OF THE LARGER SLEEVE OR OF CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. PRIOR TO COLSTRUCTION ALL SLEEVE LOCATIONS AND SZES NOT SHOWN ON THE PRACE TWO ST STREEMERS AND SZES NOT SHOWN ON THE PRACE TWO ST STREEMERS AND SZES NOT SHOWN ON THE PRACE TWO ST STREEMERS AND SZES NOT SHOWN ON THE

### 033000 CONCRETE

SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

CONCRETE STRUCTURE TYPE	COMPRESSIVE STRENGTH	SLUMP	MAXIMUM AGGREGATE	MAXIMUM WIC RATIO
FOUNDATIONS	3000 PSI	4-6"	1"	0.50
SLABS-ON-GRADE	4000 PSI	4-6"	34"	0.48
CONCRETE ON METAL DECK	4000 PSI	4-6"	34"	0.50
BEAMS AND COLUMNS	4000 PSI	4-6"	3/8"	0.48

- CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
- SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYUNDER OR LAB TESTS FOR REVEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF A STM CAS FOR
- CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.
- THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN TIS FRAL POSITION SHALL NOT EXCEED ONE AND CASE HALF (1-12). THE CONCRETE SHALL BE DESCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTINGS LAB TO NOTIFY THE CONCRETE AND EXPONSIBILITY OF THE TESTINGS LAB TO NOTIFY THE CONCRETE AND THE CO
- SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD CRIST TYPE FLOKES D. AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FRINSHING SCOMPLETED OF AS SOON AS THE WATER HAS LEFT THE UPENISHED CONCRETE. SOUPFEED OR BROKEN AREAS IN THE CURING MEMBRANES SHALL BE RECORTED MALT.
- CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
- CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.
- CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 6.3.
- CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.
- ALL COLUMNS AND BEAMS INTEGRATED IN CMU WALLS ARE 8" AND 12" NOMINAL AND 7-58" AND 11-58" ACTUAL DIMENSIONS.

- CONCRETE SLABS ON COMPOSITE METAL DECK SHALL BE REINFORCED WITH AS INDICATED ON PLAN.
- YINES A DHESVES OR WATER VAPOR INFORMEDIE IT LODE COURSINGS ARE BUILD SUBSO ON CONVERTE SURFACES. THE CONTROLLED SHAUL SERFE THROUGH APPROPRIATE TESTING THAT THE WATER CONTENT OF THE CONCRETE. AND WAPOR TRANSMISSION AFTE THROUGH THE CONCRETE. IS WITHIN THE ALLOWABLE FRANCE BEFORE INSTALLATION. THE MANUFACTURES OF THE ADHESING OR FLOOR COVERS SHAUL PREVEN MAD APPROVE THE RESULTS OF THE ESTING PRIOR TO INSTALLATION.

#### 033003 CONCRETE TESTING

- AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:
- ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE."
- ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY SO QUIED YARDS (ON FRACTION THEREOF, PLACED PER DAY. REQUIRED LAB CURED CYLINDER QUANTITIES AND TEST AGE AS FOLLOWS.

(2) AT 7 DAYS (2) AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED, IF 28-DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER'S) MAY RE DISCARDED.

# 036001 CHEMICAL (ADHESIVE) ANCHORS

- SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT HY200, HILTI RE500 SD, DEWALT PURE 110+, DEWALT AC200+, OR SIMPSON SET ADHESIVE SYSTEM, OR ENGINEER APPROVED SUBSTITUTION.
- FEX.Y FIVE AND BANGE VARY IN THEIR BOYD STRENGTH AND BETABLET OF USE
  OF FED.VID SECRETION THESE DAY SHOULD SECRETION OF SE

- ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACID 318-14 D.B.2.21. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO
- THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE MADE AVAILABLE TO THE EOR AS REQUESTED.

- IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT DOES NOT INTERFER WITH A QUISTABILITY OF ANCHOR ROD IN SLOTTED HOLE.
- ADHESIVE ANCHORS IN MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-65 AC70.
- EXISTING REINFORCING IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE CUT UNLESS APPROVED BY THE EOR.
- ADHESIVE ANCHORS IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE INSTALLED UNTIL CONCRETE AND/OR MASONRY HAS CURED FOR AT LEAST 21-DAYS. PROVIDE SPECIAL INSPECTION FOR ALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE CURRENT ICC-ES REPORT IDEC 2118 TABLE 1705.3 NOTE B1.

# 036002 MECHANICAL ANCHORS

- TYPE OF ANCHOR SWALL BE AS SPECIFED ON THE DRAWINGS. WHILE BRAND AND MODILLO FANCHOR MAY SELECTED PROAT THE ABOVE LISTED ANCHORS. ANCHORS APPROVED IN MAY BE ANCHORS. ANCHORS APPROVED IN MAY BE AN EXCEPTED FROM THE ABOVE TO SELECT ANCHORS WITH A STATE OF THE DRAWING OF THE OFFICE OF THE STATE OF THE OFFICE OF THE STATE OF THE ANCHORS ANCHORS USBITTUTES MUST BE SUBMITTED TO GOT FOR REVIEW. FOR MAY REQUEST FROM THE STATE OF THE ANCHORS ANCHORS ANCHORS AND THE STATE OF THE ANCHORS ANCHORS AND THE ANCH
- IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTEO ON THE DRAWINGS, IN THESE CASES, THE SPECIFIC BRAND AND MODEL OF ANCHOR MUST BE USED.
- THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLERS AND AN EXPERIENCE AND AND AN EXPERIENCE AND AND AN

- MECHANICAL ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC 193 FOR CRACKED, UNCRACKED AND SERBING COMPETER RECOGNITION.
- MECHANICAL ANCHORS IN MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC. ES AC01 OR AC105.
- POWER ACTUATED FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICCOES ACTO.
- EXISTING REINFORCING BARS IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE CUT UNLESS APPROVED BY THE EOR.
- ANCHORS SHALL NOT BE INSTALLED IN CONCRETE AND/OR MASONRY CONSTRUCTION UNTIL THE CONCRETE AND/OR MASONRY HAS CURED FOR AT LEAST 21-DAYS.
- SPECIAL INSPECTION FOR ALL MECHANICAL POST INSTALLED ANCHORS IN ANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE TICC-ES REPORT (BC 2018 TABLE 170.6 3 NOTE B.

### 042200 MASONRY WALLS

- ALL MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402-2016 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND TMS 602-2016 "SPECIFICATION FOR MASONRY STRUCTURES".
- MASONRY UNITS SHALL MEET ASTM C-50 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 2000 PSI ON THE NET AREA (Fm = 2000 PSI), MORTAR SHALL BE TYPE "M OR "S" AND MEET ASTM C-270.
- GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476
  AND HAVE A SLUMP BETWEEN 8" AND 11" WITH WATER CM RATIO OF 0.55 MAXIMUM AND
  WITH 10" MAYINE M ACCEPICATE
- PROVIDE HOOKED DOWELS IN FOUNDATIONS FOR VERTICAL REINFORCING ABOVE, LAP SPLICES SHALL BE PER LAP SPLICE SCHEDULE SHOWN IN TYPICAL DETAIL.
- BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS AND AS SHOWN ON THE DRAWINGS.
- DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE.
- USE METAL LATH, MORTAR OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA AS REQUIRED.
- MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. AT FILLED CELLS LAY UNITS WITH FULL BED JOINTS AROUND CELLS.
- PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES. LADDER TYPE IS RECOMMENDED WITH REINFORCED FILLED CELLS: PROVIDE PREFABRICATED "TEE" OR CORNERS ESCITIONS AT VALIL INTERSECTIONS. CONTRO, LOTTS BUT AND AT INTERSECTIONS

  CONTRO, LOTTS BALL BE CORRESTLED IN CONCERT LANGUIST CONSTRUCTION
  AT A MAXIMAL PRODUCTION, AS PACING SET MEETS, LOTTS OF 25 of 29 MICH FOR MORE THAN
  12° FROM CONSERSE SEE ARCHITECTURE, DRAWNING FOR EXCEPT CONCERTS
  CONSTRUCT SITERIOR CONTRO, LOTTS AT A MAXIMAL HORIZONTAL SPACING OF 22°
  OF 10° FROM CONSERS, NO LOTTS SET, BE LOCATED WITHOUT CFO STEEL BANK
  CONTRO, LOTTS, SEE ARCHITECTURAL DRAWNINGS FOR SEALANT REQUIREMENTS AT
  CONTRO, LOTTS.
- LISE OF SUPERPLASTICIZER IS PROHIBITED.
- CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE.
- CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. AFTER INSPECTION AND BEFORE GROUTING, THE REBAR SHALL BE TIED AT THE CLEANOUTS AND THE CLEANOUTS SHALL BE SEALED.
- ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.
- VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.
- CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. SAMPLE AND TEST GROUT PER ASTM C1019.
- WHEN TOTAL GROUT POUR EXCEEDS 5-4" FEET IN HEIGHT, (HIGH LET' GROUTING), THE GROUT SHALL BE PLACED IN 4-FOOT LIFTS WITH A MINIMUM OF A 30 MINUTE DELAY BETWEEN LIFTS. MINIMUM CELU DIMENSION 5-HALL BE IN ACCORDANCE WITH TABLE 5 OF TIMS 402 (3" X 3" FOR COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT).
- WHERE CONCRETE BEAMS ARE INSTALLED IN CONCRETE MASONRY WALL, SUPPORT CONCRETE WITH 6" SIDE CONTINUOUS STRIPS OF 1/8 SQUARE MESH SOFFIT SCREENING OR PUR-O-STOP OF EQUAL CENTERED OVER BLOCK WORK. USE OF ROOFING FELT STRIPS WILL NOT BE PERMITTED.
- MANDAY VIVILS RICHATED AS THAT IN RESERVED TO SESSIST LATERAL LOUIS
  AND MAST SECONDATION OF THAT THE CONCRETE SAME OLD THAT HAVE
  AND MAST SECONDATION SECONDATION SECONDATION SECONDATION
  STARTHAN OF THE COULDATION LEVEL AND WORKING SEWARD ONE LEVEL AT A TIME.
  ON OT START HAT OHDER LEVEL, OF MALE PROOF TO COME LEVEL AT A TIME.
  ON OT START HAT OHDER LEVEL, OF MALE PROOF TO COME THAT OF WAST
  ALLOW A MANAMA OF 3 DAYS CURRING FOR GROUNT OF WALL BELOW PRORT TO
  STARTING WALL AS SECONDATION.
- PROVIDE DOVETAIL ANCHORS AT 16" CIC, UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
- SUBMIT WRITTEN CONSTRUCTION SEQUENCES AND PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.
- REINFORCING SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OL, SCALE AND RUST AND PLACED IN ACCORDING WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
- SECURE APPROVAL OF REINFORCING SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
- PROVIDE STANDARD HOCKS AT ENDS OF ALL BARS WHICH TERMINATE IN TIE BEAMS OR BOND BEAMS.
- WHERE REINFORCING IS SHOWN CONTINUOUS, LAP SPLICE BARS IN ACCORDANCE WITH SPLICE TABLE IN TYPICAL DETAIL.
- MECHANICAL BAR COUPLERS MAY BE USED TO SPLICE CONTINUOUS BARS, IN LIEU OI LAP SPLICES. BAY COUPLERS MUST ACHEVE 1295, OF BAR STRENGTH MINIBULM COUPLERS MY THE BOLTED THE (DAYTON) SO 200 BAR COOPLER OR COUPLER OR COUPLER OR COUPLE OR COUPLE OR COUPLE OR COUPLE SHALL BE INSTALLED PER MANUFACTURIER'S WRITTEN INSTALLATION RECOMMENDATIONS.
- AT CHANGES IN DIRECTION OF BOND BEAMS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.

# 042203 TIE BEAMS

- BEAMS WITH THE PREFIX "TB" SHALL BE OF CONCRETE, POURED AFTER THE MASONRY WALLS BELOW ARE IN PLACE.
- REINFORCING SHALL BE CONTINUOUS THROUGH TIE BEAMS WITH MINIMUM LAF SPLICES OF 48 BAR DIAMETERS AND BENT BARS AT CORNERS.
- USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE TO AREA REQUIRED, IN ACCORDANCE WITH TMS 602 (SOLID METAL OR FELT CAVITY CAPS ARE
- WHERE TE BEAAS CANTILEVER OUT FROM SUPPORTING WALL TOP AND BOTTOM BARS SHALL BE FULLY DEVELOPED INTO THE BEAM BEYOND SUPPORT. EITHER BY PROVIDING FULL CLASS B LAP SPLICE OR STRANDARD ACH HOOSE DERBEDDED DEEP ENOUGH BEYOND SUPPORT TO DEVELOP STRENGTH OF BAR. ALSO, REDUCE STIRRUP SPACING PER NOTE ABOY.

#### 051200 STRUCTURAL STEEL

- STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSIAISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- MATERIAL SHALL CONFORM TO THE FO WIDE FLANGE SHAPES ANGLES, CHANNELS AND PLATES ASTIM ASS (F)=90 (KS) ASTM ASS, (F)ASS (KS) ASTM ASS, (FADE B (F)=35 KS) ASTM ASS, (FADE B (F)=46 KS) ASTM ASSO, (FADE B (F)=42 KS) ASTM ASSO (FADE B (F)=42 KS) ASTM ASSO (F)ASSO ASTM ASSO (F)=38 KSI) ASTM ASSO (F)=38 KSI) ASTM ASSO (F)=38 KSI) ASTM F)=38 KSI) PIPE RECTANGULAR HSS ROUND HSS
- ROUND HSS HIGH STRENGTH BOLTS THREADED RODS HEAVY HEX NUTS HARDENED STEEL WASHERS ANCHOR RODS SHEAR STUD CONNECTORS
- SIGHA STO CONNECTORS

  ATMILIARY FUND KING

  A BOUTS SHALL BE HIGH STERNISH. BEARING THE N SANG TIGHT CONDITION.

  A BOUTS SHALL BE HIGH STERNISH. BEARING THE N SANG TIGHT CONDITION.

  BY WILDOWN SHORT SHALL BE FER ANY SILL. SHETURE FILET WILDOWN FOR THE PARKED CONNECTIONS BY AT EACH BIO.

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  CHARLES CONNECTION BY ATMILIARY SHALL SHAL

- ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A 123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
- GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.
- COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNBHORED INJESS OTHERWISE SUPPORTING STEEL DECK, BEAMS, AND GRODERS ALL OVERFLAND FOR CONCRETE OUTSING ALL OVERFLAND OF CONTRACTORS BUT IN CONTRACTOR SHALL DESIGNATION THE MEMBERS OF CONTRACTORS BUT IN CONTRACTORS SHALL DO NOT THE CONTRACTOR SHALL DESIGN AND THE CONTRACTOR SHALL DO NOT THE CONTRACTOR SHALL BE SOREDED LEVEL.
- SIZE AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 3-91 UNLESS NOTED OTHERWISE ON DRAWINGS.
- LENGTH OF SHEAR STUD CONNECTIONS IN COMPOSITE SLABS SHALL EQUAL THE DEPTH OF THE COMPOSITE DECK PLUS 2" (U.N.O.).
- THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP.

- WELDING SHALL BE DONE BY WELDERS WITH CURRENT CERTIFICATION IN ACCORDANCE WITH AWS D1.1.
- WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWAS SEQUIREMENTS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PRINTING.

# 051202 SHEAR STUD CONNECTORS

- ATTACHMENT OF STUDS SHALL BE SUFFICIENT TO DEVELOP THE FULL CAPACITY OF EACH INDIVIDUAL STUD. STUDS SHALL BE TYPE 'B', HEADED STUDS HAVING A MINIMUM TENSILE STRENGTH OF 85,000 PSI, AND SHALL BE OF LENGTH AND DIAMETER SHOWN ON STRUCTURAL
- SEE PLANS FOR SPECIFIED NUMBER OF SHEAR CONNECTORS.
- UNLESS NOTED OTHERWISE ON PLANS, SHEAR CONNECTORS SHALL BE EQUALLY DISTRIBUTED ALONG THE LENGTH OF BEAM.
- A. BEAMS PERPENDICULAR TO DECK SPAN = 36°
- B. BEAMS PARALLEL TO DECK SPAN = (8 X TOTAL SLAB THICKNESS) SHEAR CONNECTORS SHALL BE PLACED IN A SINGLE ROW DIRECTLY OVER THE BEAM WEB, WHENEVER POSSIBLE. STUDG SHALL BE PLACED IN TWO OR THREE ROWS ONLY WHERE REQUIRED IN ORDER TO PLACE THE TOTAL NUMBER OF STUDG.
- WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (AND THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST CENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
- SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL.

- 052100 STEEL JOISTS SMALL BE THE SIZE AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE THE SIZE AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE DESIGNED, PARRICATED, INSTALLED AND BRODGED IN ACCORDANCE WITH THE SECRET AS THE SHALL BE SHALL SHALL B
- DEPTH CLASS, AS REQUIRED TO ACCOUNT FOR UP.ET (LAGG OR OTHER NOWSTAND).

  BODG OF BRODDING USE TERMINATION CHULS OR READS 1941. IS ANCHORED THERETO AT 100 AND BOTTOM CHICKS. MINIMAN, DOT BROCKET TERMINATION CHICKS. MINIMAN CHICKS THE ACCOUNT TERMINATION CHICKS. THE ACCOUNT TERMINATION CHICKS. TO ACCOUNT CHICKS WITH 11 15°C AND CHICKS OF CONTINCT. WITH 20 MINIMATED ACCOUNT CHICKS OF CHICKS. THE ACCOUNT CHICKS SHALL BE VIRLED OR DO KEN TED AT POINTS OF CONTINCT. WILD SHALL NOT THE ACCOUNT CHICKS OF CHICKS. THE ACCOUNT CHICKS OF CHICKS OF CHICKS. THE ACCOUNT CHICKS OF CHICKS. THE ACCOUNT CHICKS OF CHICKS. THE ACCOUNT CHICKS OF CHICKS OF CHICKS. THE ACCOUNT CHICKS OF CHICKS OF CHICKS. THE ACCOUNT CHICKS OF CHICKS OF CHICKS. THE ACCOUNT CHICKS OF CHICKS.
- K-SERIES JOISTS SHALL BEAR A MINIMUM OF 2½" ON STEEL BEAMS AND 4" ON CONCRETE BEAMS, JOIST BEARING PLATES TO BE MINIMUM SITE VOTO: WITH (2) 12" DUMETER X 5". BEARING STEEL STEEL
- HANGERS FOR SUPPORT OF EQUIPMENT, OR MEMBERS SUPPORTING SUCH HANGERS, SHALL BE LOCATED AT PANEL POINTS OF JOISTS, AND SHALL BE HUNG FROM THE TOP
- SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWING SUBMITTAL SHALL INCLUDE LAYOUT, COMPONENT DESIGNATION, BRIDGING, AND
- SUBMITTALS FOR JOISTS, OTHER THAN STANDARD SJI CATALOG SELECTIONS WHICH HAVE BEEN VERIFIED BY SJI, SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN...
- JOIST BOTTOM CHORDS SHALL BE DOUBLE ANGLES. JOISTS ARE TO BE DESIGNED TO ALLOW 1" MAXIMUM DIFFERENCE IN CAMBER BETWEEN ADJACENT PARALLEL JOISTS.
- ALL STEEL JOISTS GREATER THAN FORTY FEET IN LENGTH REQUIRE A ROW OR BOLTED BRIDGING TO BE IN PLACE PRIOR TO SLACKENING OF HOIST LINES. (U.N.O.)
- JOIST MANUFACTURER SHALL COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LOADS DUE TO GOLUPMENT TO BE SUPPORTED BY ROOSTRUCTURE. ALL ADDITIONAL LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAW
- WHERE ROOF JOISTS ARE USED TO BRACE STEEL ROOF BEAMS (AS SHOWN ON PLANS AND DETAILS), DESKON JOISTS TO RESIST A 500 LB AXML BRACE LOAD AT EACH BRACE THIS LOAD SHALL ACT CONCURRENTLY WITH ALL WIND LOAD CASES AND COMBINATIO

#### 053101 COMPOSITE STEEL DECK

- SHALL BE GALVANIZED (GR0), CORRUGATED STEEL COMPOSITE DECK OF GAGE AND DEPTH INDICATED ON DRAWINGS, CONFORMING TO STEEL DECK INSTITUTE
- DECK SHALL HAVE DEFORMATIONS TO PROVIDE ADEQUATE MECHANICAL INTERLOCKING BETWEEN DECK AND CONCRETE FOR COMPOSITE ACTION.
- PROVIDE 58\* DIAMETER PUDDLE WELDS IN A 38/4 PATTERN AT SUPPORTS, AND AT  $12^{\rm o}$  CIC ALONG EDGE SUPPORTS.
- SIDE LAPS BETWEEN DECKS SHALL BE WELDED OR FASTENED USING #10 TEK SCREWS AT A MAXIMUM SPACING OF 36 INCHES, WITH NO LESS THAN (2) #10 TEKS SCREWS PER SIDE LAP SPAN.
- BUTTON PLINCHING OF SIDE LAPS IS NOT PERMITTED.
- CONDUIT LOCATED IN SLAB ON METAL DECK SHALL BE NO GREATER THAN 34° DIA. AND SHALL BE GALVANIZED STEEL CONDUIT.
- MAINTAIN 2" MINIMUM COVER OVER CONDUIT AT ALL TIMES, INCLUDING LOCATIONS WHERE CONDUITS CROSS EACH OTHER. CONDUITS SHALL CROSS AT 90 DEGREES TO EACH OTHER.
- CONDUIT IN CONCRETE SLAB ON METAL DECK SHALL NOT BE SPACED CLOSER THAN 6'
   O.C. MINIMUM.
- 9. DO NOT RUN CONDUIT CONTINUOUSLY IN DECK FLUTES.
- CONDUIT SHALL BE ADEQUATELY FASTENED TO DECK TO PREVENT SHIFTING DURING CONCRETE POUR.

# 055100 STEEL STAIRS

- ENGINEERED STEEL STAIR SYSTEM AND CONNECTIONS OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- THE CONFIGURATION OF THE STEEL STAIR SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- THE ENSINEERED STAIR SYSTEM SHALL INCLUDE THE STAIRS, LANDINGS, SUPPORT FRAMING, POSTS, HANGERS, AND CONNECTIONS TO THE BUILDING STRUCTURE. UNLESS NOTED OTHERWISE, CONNECTIONS TO THE BUILDING STRUCTURE SHALL BE COMPATIBLE WITH THE STRUCTURE SHOWN ON THE CONTRACT DRAWINGS.
  - STEEL STAIR SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE FLORIDA BUILDING CODE, 7th EDITION
- 5. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE STELL STAIR SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS.
- SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

# 055213 RAILINGS

- ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE.
- THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL COMPLY WITH ALL APPLICABLE CODES.
- SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

- 061000 WOOD WOOD CONSTRUCTION DESIGN, INCLUDING ALLOWABLE FORCES, LOAD FACTORS, ANCHOR SPACING, AND MINIMUM ALLOWABLE FIBER STRESSES SHALL CONFORM TO OVER MATCHAIL PRESENT SPECIFICATION (NISS).
- STANDARD U.S.S. WASHERS SHALL BE USED BETWEEN WOOD AND BOLT HEADS AND NUTS. BOLTS AND SCREWS SHALL BE ASTM A-307, ALL SHALL BE GALVANIZED.
- WHERE BEAMS ARE FORMED WITH TWO OR MORE MEMBERS, THEY SHALL BE ADEQUATELY FASTENED TOGETHER THROUGHOUT THEIR LENGTH.
- JOISTS SHALL BE ADEQUATELY SUPPORTED AT THEIR ENDS BY SOLID BLOCKING OR OTHER MEANS TO PREVENT ROTATION.
- B. NON-LOAD BEARING WALLS: STUD GRADE S-P, 2X4 OR 2X6 @ 16° O.C.
- DOUBLE STUDS SHALL BE PROVIDED AT EACH END OF BEAMS AND ON EACH SIDE OF OPENINGS. 4-0" WIDTH. PROVIDE TRIPLE STUDS EACH SIDE OPENINGS TO 7-0" IN WIDTH, U.N.O.
- 10. PLYWOOD SHEATHING: ROOF SHEATHING SMALL BE S8° APA STRUCTURAL 1 FARTED PLYWOOD SHEATHING, 0020 SPAN, ENPOSURE 1, SOLARE EDGES. ROOF SHEATHING, 0020 SPAN, ENPOSURE 1, SOLARE EDGES. ROOF SHEATHING SHALL BE NALIDE TO WOOD FRANKIN ON A COORDAN

- REINFORCE ALL LOAD BEARING STUDS WHICH HAVE BEEN NOTCHED OR DRILLED THROUGH FOR UTILITY ROUTING PER TYPICAL REINFORCING DETAILS. PLYWOOD USED IN WET CONDITIONS, INCLUDING SPACERS IN BUILT-UP BEAMS, SHALL BE EXTERIOR GRADE. PRESSURE TREATED PLYWOOD.



TLC ENGINEERING THEORY, LASTING, CHARTS,

RA EED A AF,

Jerome

LAKE COUNTY FIRE STATION NO.71 STRUCTURAL NOTES

OVEMBER 10, 202

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BIM 360-920073A - Lake County Fire Station 71/521157\_Lake Co FS 71\_STR\_R16.nd

#### 061753 WOOD TRUSSES

- PRE-ENGINEERED, PRE-FABRICATED WOOD TRUSSES AND THEIR CONNECTIONS TO EACH OTHER SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- NO WAMES, SKIPS, KNOTS OR OTHER DEFECTS SHALL OCCUR IN THE PLATE CONTACT AREA OR SCARFED AREA OF WEB MEMBERS. PLATES SHALL BE CENTERED WITH EACH SIDE OF TRUSS.
- SIDE OF TRUSS.

  NUMBER OF PANELS AND DIRECTION OF WEB MEMBERS TO SUIT CONDITIONS OR SIMPLE SPAN TRUSS REQUIREMENTS. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ANY SPECIAL CONDITIONS LOCATIONS OF PANEL. LONG.

  A. DETALER NOTE THAT ALL WOOD MEMBER SZES SHOWN ARE HOMINAL, U.N.O.
- B. DESIGN OF METAL PLATE CONNECTED ROOF TRUSSES TO COMPLY WITH INFPA'S NATIONAL DESIGN SPECIFICATION FOR THE DESIGN OF LUMBER AND ITS FASTENINGS:

  1. AMS/PTI 2004 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
- 2. FLORIDA ADMINISTRATIVE CODE 61G15.
- S DESIGN LOADS ARE AS FOLLOWS:

LIVE LOAD	20 PSF
DEAD LOAD	10 PSF
IOTTOM CHORD:	
LIVE LOAD	10 PSF
DEAD LOAD	10 PSF 10 PSF

LOAD DURATION FACTOR:

DEAD LOAD	0.90
DEAD LOAD + FLOOR LIVE LOAD	1.00
DEAD LOAD + ROOF LIVE LOAD	1.25
DEAD LOAD + WIND LOAD	1.33

- B. MECHANICAL UNITS AND OTHER SUPERINPOSED LOADS AS SHOWN ON THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWNIGS.

  C. INDIVIDUAL TRUSSES ARE TO BE DESIGNED FOR SPECIFIC FRAMING CONDITIONS AND CONCENTRATED LOADS RESULTING FOR EQUIPMENT WEIGHTS AND OTHER LOADS AS INDICATED ON THE MECHANI
- AS INDICATED ON THE MELLIPHOCAL, ELECTRICAL, PAUL PLANNING OPPRINTS.

  SEMENT SHOP DRAWMERS AND CALLATIONS SIGNED AND SEALED BY A PROFESSIONAL ENCORED RESISTEED IN THE SYSTE OF LOODING FOR REVIEW PROOK TO FARRICATION. THE SYSTEM OF LOODING FOR REVIEW PROOK TO FARRICATION. THE SYSTEM OF LOODING FOR THE SYSTEM OF THE SYSTEM O
- EXAMENSING THUS STREAM.
  AN ERECTION PROVING SHALL BE INCLUDED, DENTIFYING TRUSS SYSTEM.
  AN ERECTION PROVING SHALL BE INCLUDED, DENTIFYING TRUSS SYSTEM.
  HANDLING FRECTION AND BRACHING OF WOOD TRUSSES SHALL BE IN ACCORDANCE HANDLING FRECTION AND BRACHING OF WOOD TRUSSES SHALL BE IN ACCORDANCE HOSE OF THE PROPERTY PROMINEY SHEET. TEMPORPHY BRACHING OF SHALL BE INTERED.
  DESKIN SHALL BE INTERED.
  SHALL BE INTER
- WHERE ROOF PLYWOOD IS NOT PERMANENTLY ATTACHED TO TOP CHORD OF TRUSS, PROVIDE CONTINUOUS 2X (g) 2°0° O.C. PERPENDICULAR TO TOP CHORD. DELECATED DESIGN COMPONENTS, TRUSS SHOE PERMINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- BE SENDED AND SEALED BY AN INFORMER REGISTERS ON THE STATE OF FLORICA PHYSIOD CARGO, MLA AND ROOF SELECTION ARE RESISTED AND APPRICAGES AND PHYSIOD CARGO, MLA AND ROOF SELECTION ARE RESISTED. THE THEODISCO COUNTY OF THE STATE OF THE STATE
- DEFLECTIONS OF WOOD TRUSSES SHALL BE LIMITED TO LI989 FOR LIVE LOADS, AND LI249 FOR COMBINED DEAD AND LIVE LOADS.
- LONG POR COMBINED DEAD AND LIVE LOURS.

  DESYNDOCKMOTTS INCLUDE A SYSTEM OF CUSTOTIVE REPORTS PAGES CONFOCIENTS
  STRANGAGES OF PRISES AND RESIDENT AND RESIDENT FOR AN OFFICE AND RESIDENT FOR THE STRANGAGES OF PRISES AND RESIDENT FOR ADDRESS AND RESIDENT FOR AN OFFICE AND RESIDENT FOR ADDRESS OF THE STRANGAGES AND RESIDENT FOR ADDRESS OF THE STRANGAGES AND RESIDENT FOR ADDRESS AND RESIDENT FOR ADRESS AND RESIDENT FOR ADDRESS AND RESIDENT FOR ADDRESS AND RESIDE
- CODE FORM THE SYSTEM ANGLIDING ALL TRUSSES, COMMICTIONS BETWEEN TRUSSES, THE ENTIRE SYSTEM ANGLIDING ALL TRUSSES, COMMICTIONS BETWEEN TRUSSES, BALL BE DESIGNED ON A SPICALLY THOMBER PROFESSIONAL DIGINALS RECEIPTS DEMILIES OF RECEIPTS AND A STATE OF THE SYSTEM ANGLIDING ANGLID
- DESIGN TRUSSES FOR LAGS SHOW OF ARE.

  IN THE SERRICE OF LOADS USE APPLY SELE LOADS LODGE FOR LIFE LOAD AND ATTIWEIGHT OF BULDING WATERIA FOR DEAD LOAD. USE FOR LIFE LOAD AND ATTIWEIGHT OF BULDING WATERIA FOR DEAD LOAD. USE FOR LIFE LOAD AND ATTIWEIGHT OF BULDING WATERIA FOR DEAD LOAD. USE FOR LIFE AND THE LIFE
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  PROVING GOOD AND AND THEREICAME AND HIS DESIGN FOR MET WIND URLIFT AT
  ALL BEARINGS.
- GENERAL CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL CHASES, ATTIC AND ACCESS REQUIREMENTS INCLUDING SIZE AND LOCATION WITH MECHANICAL, ARCHITECTURAL, AND ELECTRICAL, DRAWINGS.

- 061754 WOOD FRAMING CONNECTORS CONNECTORS EXPOSED TO WET CONDITIONS SHALL BE GALVANIZED.
- CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED.
- WHEN EXPOSED TO WET CONDITIONS OR IN CONTACT WITH PRESSURE TREATED LUMBER, NAILS AND SCREWS USED WITH FRAMING CONNECTORS SHALL BE GALVANIZED OR STAINLESS STEEL, TO MATCH FINISH OF CONNECTOR.
- CONNECTOR MODEL NUMBERS SHOWN ARE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE CO. EQUIVALENT USP CONNECTORS ARE ACCEPTABLE SUBSTITUTIONS.
- OTHER SUBSTITUTIONS ARE ACCEPTABLE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER.
- UNLESS SHOWN OTHERWISE, INSTALL SIZE AND NUMBER OF FASTENERS SHOWN IN LATEST SIMPSON CATALOG. WHERE MULTIPLE FASTENING PATTERNS ARE SHOWN,

#### 312002 FOUNDATIONS - W/ SOIL REPORTS

SEE THE FOLLOWING GEOTECHNICAL REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES. SITE PREPARATION AND FOUNDATION INSTALLATION SHALL COMPLY WITH

FOLLOW THE RECOMMENDATIONS LISTED IN THE GEOTECHNICAL REPORT FOR SITE PREPARATION WORK, AT A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE:

- STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5
  FEET AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS.
- B. PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY SOFT AREAS SHALL BE EXCAVATED AND REPLACED WITH CLEAN FILL. A DENSITY OF AT LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE BUILDING FOOTPRINT.
- ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE.
- EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH OF AT LEAST 1 FOOT BELOW THE BOTTOM OF THE FOUNDATION.
- E. DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION VALUES, AND IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2 FEET BELOW THE BOTTOM OF THE EXCAVATION.

- CANTILEVERED RETAINING WALL AND RESTRAINED FOUNDATION WALL DESIGN IS BASED ON THE FOLLOWING SOIL PROPERTIES:

LATERAL BEARING PRESSURE COEFFICIENT OF FRICTION



GARY C. KRUEGER FL LICENSE NO. 40788

John P. Adams, AIA ovich, Jr., AIA, LEED Ethan J. Hine, AIA , AIA, LEED, NCARB

Jc Jerome Bankovi

NOVEMBER 10, 2021

Set

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			ULT	IMATE	C&C	WINE	) PRE	SSUF	RES (A	ASCE	7-16)				
ROOF	(FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE (PSF)	ZONE (PSF)	ZONE (PSF)	ZONE (PSF)	ZONE (PSF)	ZONE (PSF)	ZONE (PSF)	ZONE (PSF)	ZONE (PSF)	ZONE (2-1) (PSF)	ZONE (3H) (PŠF)
	7-3" 147			<10	+29.0 -48.8	+29.0 -65.2	+29.0 -85.0	N/A	+29.0 -65.2	N/A	N/A	+38.9 -42.2	+38.9 -52.0	+29.0 -75.8	+29.0
HIP ROOF			114	20	+25.0 -48.8	+25.0	+25.0 -76.6	N/A	+25.0	N/A	N/A	+37.1	+37.1	+25.0 -74.2	+25.0
				50	+19.8 -43.1	+19.8 -52.8	+19.8 -65.5	N/A	+19.8 -52.8	N/A	N/A	+34.8	+34.8	+19.8 -72.2	+19.8 -72.5
				100+	+16.0	+18.0 -47.5	+18.0 -57.1	N/A	+16.0 -47.5	N/A	N/A	+33.1 -36.3	+33.1 -40.4	+18.0	+16.0 -62.6
GABLE ROOF			114	<10	+23.6 -71.8	+23.6 -71.8	+23.6 -104.8	+23.6	N/A	+23.6 -104.8	+23.6 -124.5	+38.9	+38.9	+23.6 -115.3	+23.6
				20	+21.2 -71.8	+21.2 -71.8	+21.2 -90.6	+21.2 -90.6	N/A	+21.2 -90.6	+21.2 -106.7	+37.1	+37.1 -48.5	+21.2 -104.7	+21.2
				50	+18.2	+18.2 -43.7	+18.2 -71.8	+18.2 -71.8	N/A	+18.2 -71.8	+18.2 -83.1	+34.8	+34.8 -43.9	+18.2 -90.6	+18.2
				100+	+16.0	+16.0 -22.4	+16.0 -57.6	+16.0 -57.6	N/A	+16.0 -57.6	+16.0 -65.2	+33.1	+33.1	+16.0	+16.0 -75.8

#### ULTIMATE C&C WIND PRESSURE PLAN NOTES:

PRESSURES SHOWN ABOVE ARE ULTIMATE COMPONENTS AND CLADDING PRESSURES, GIVEN PRESSURES MAYBE CONVERTED TO NOMINAL USING A 0.8 MULTIPUER FACTOR, NO FURTHER REDUCTION IS ALLOWED.

GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.

POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.

ROOF AND ZONES 1 THRU 3

WALL ZONES 4 AND 5

OVERHANG SYNES(MADDE)APPLY ONLY TO ROOF OVERHANGS WHERE THE COMPONENT OR CARDING RECEIVES PRESSURE SMULTANCOUSLY ON BOTH SIDES (DPVARID SUCTION ON TOP AND LIVINARD OF RESILIES ON BOTTOM, SUCH AS AT OPEN SOFFITS, AND IS CONTINUOUS WITH FIELD OF ROOF.

NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE WAXMAM REDUCTION OF WIND UPUFF PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM FULS SEP FOR SUPERINGSED BEAD LOAD.

MITERIAL, PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS 10 18 AND -0.18

AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPYSHALL EQUAL THE WALL PRESSURE IN THAT AREA.



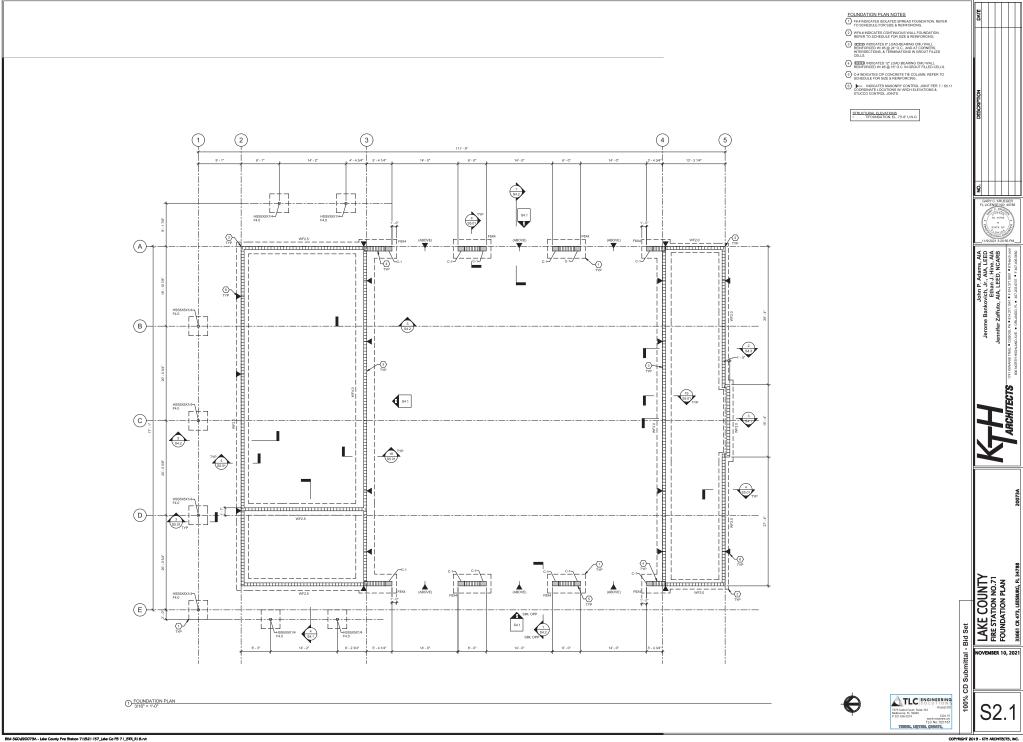


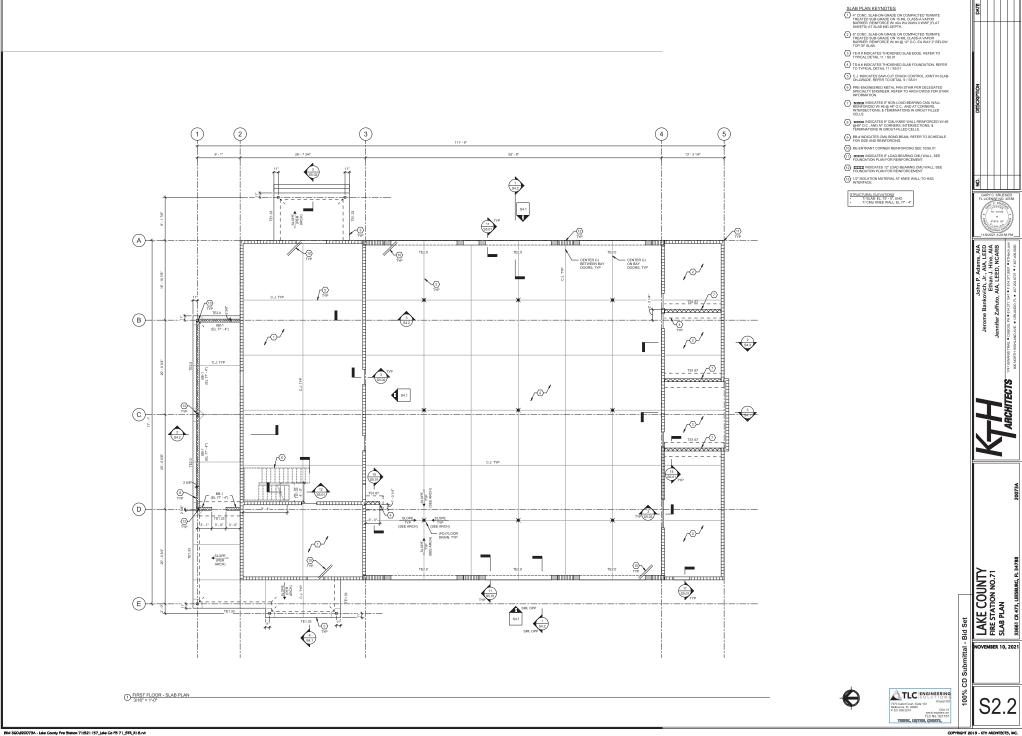
LAKE COUNTY FIRE STATION NO.71 COMPONENTS AND CLADDING WIND LOAD DIAGRAM

S1.3

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① WIND LOAD DIAGRAM 3/16" = 1'-0"





SECOND FLOOR / LOW ROOF FRAMING PLAN KEYNOTES

1) 2 1/2" NW CONCRETE OVER 1 1/2" 20GA 690 VL COMPOSITE METAL DECK REINFORCED W/ 6X6 W2.1XW2.1 (FLAT SHEETS)

3 PRE-ENGINEERED WOOD ROOF TRUSS PER DELEGATED SPECIALTY ENGINEER

PRE-ENGINEERED METAL PAN STAIR PER DELEGATED SPECIALTY ENGINEER. REFER TO ARCH DWGS FOR STAIR INFORMATION.

5 INDICATES OVERBUILT TRUSS AREA.

(8) TB-# INDICATES CONCRETE TIE BEAM, SEE SCHEDULE FOR SIZE & REINFORCING.

9) CONTINUOUS L4X3X1/4 (LLV) DECK SUPPORT ANGLE. REFER TO DETAIL 8 / S5.31

(12) INDICATES VAULTED CEILING AT COVERED ENTRY REFER TO SECTIONS AND ARCH DWGS.

(13) RIDGE BEAM REACTION AT OVERBUILT TRUSS: DEAD LOAD: 250 LB LIVE ROOF LOAD: 450 LB WIND UPLIFT (ULT): 1600 LB

- FIRE POLE BASIS OF DESIGN: MCINTIRE BRASS WORKS MODEL 20

(2) 58° APA STRUCTURAL 1 ROOF SHEATHING EXPOSURE 1, SPAN 40/20, 46°/396° SQUARE ECGE, SEE 2 / \$5.41 FOR ATTACHMENT DETAIL.

6 CB-# INDICATES CAST-IN-PLACE CONCRETE BEAM, SEE SCHEDULE FOR SIZE AND REINFORCING. (7) BB-# INDICATES CMU BOND BEAM, SEE SCHEDULE FOR SIZE & REINFORCING.

(11) 2X8 OUTLOOKER AT 2 - 0" OC MAX, SEE 5 / S5.41

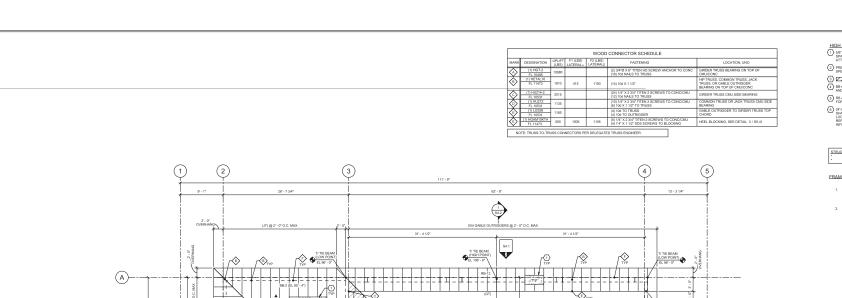
APPROXIMATE LOCATION OF FIRE POLE OPENING, PROVIDE 14 GA RADIUSED POUR STOP PER 7 / \$5,31 COORDINATE SIZE AND LOCATION OF OPENING WITH MANUFACTURER AND ARCH DWGS.

### FRAMING PLAN GENERAL NOTES

- (GT), (T), (HT), (JT), AND (GT); INDICATE GIRDER TRUSS, COMMON TRUSS, HIP TRUSS, JACK TRUS AND OVER-BULLT TRUSS; RESPECTIVELY; SEE 1/85.41 FOR TYPECAL TRUSS PROFILES.

J Jerome Bankov

LAKE COUNTY FIRE STATION NO.71 SECOND FLOOR / LOW ROOF FRAMING PLAN



- HIGH ROOF FRAMING PLAN NOTES

  1) 58° APA STRUCTURAL 1 ROOF SHEATHING EXPOSURE 1, SPAN 4020, 48° X96° SOUARE EDGE, SEE 2 / S6.41 FOR ATTACHMENT OF TAIL
- (Z) PRE-ENGINEERED WOOD ROOF TRUSS PER DELEGATED SPECIALTY ENGINEER
- SPECIAL IT ENVIRONMENT
   DESCRIPTION OF SUPERING TRUSS AREA
   BUSINGTES CAMUBOND BEAM, SEE SCHEDULE FOR SIZE AND REINFORCING.
- (5) R8-# INDICATES RAKED CONC. TIE BEAM, SEE SCHEDULE FOR SIZE AND REINFORCING.
- 6) 24-70° CELING FAN MOUNTING POINT. ROOF TRUSSES SHALL BE DESIGNED FOR A 500 LB LIVE POINT LOAD AT 1 LOCATIONS INDICATED W. A REFER TO ARCH AND ELECTRICAL DWGS FOR FAN INFORMATION.

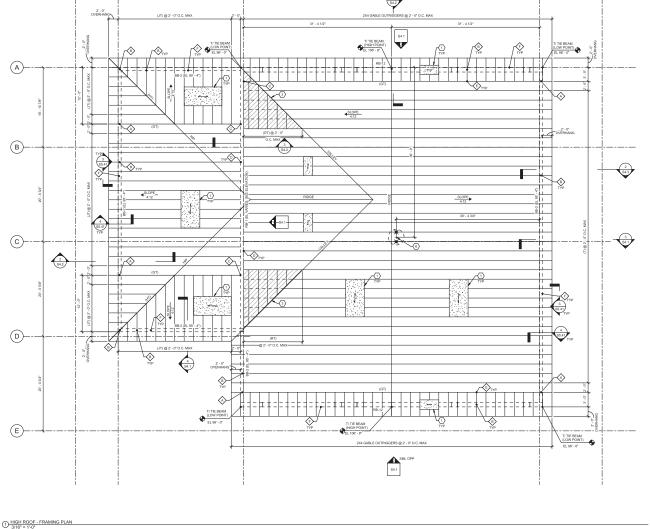
STRUCTURAL ELEVATIONS
TOWALL: EL. 96" - 4", U.N.O.
HIGH ROOF TRUSS BEARING: EL. 95" - 4", U.N.O.

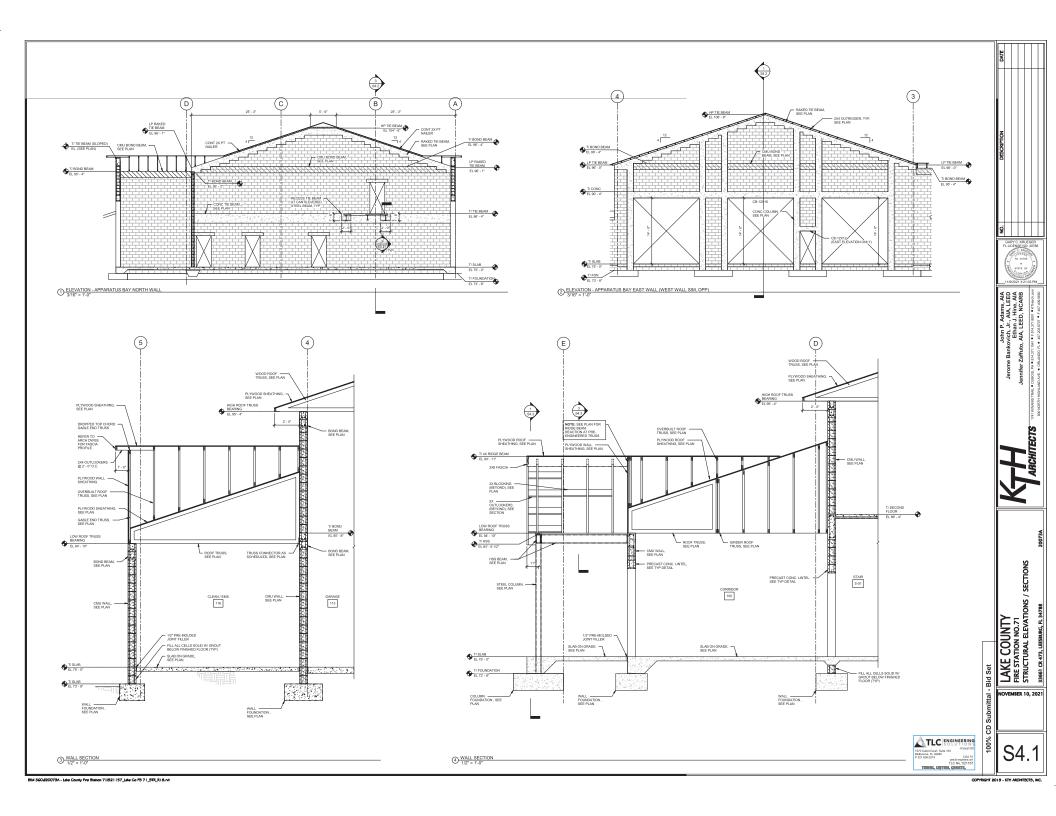
## FRAMING PLAN GENERAL NOTES

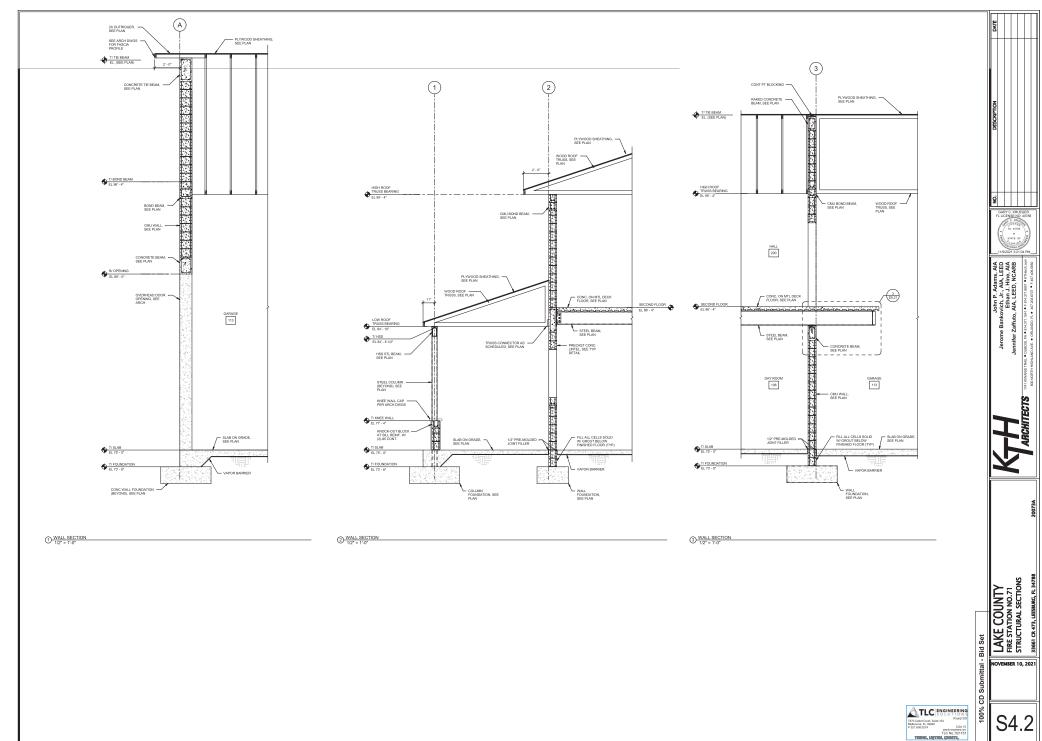
- APPARATUS BAY CEILING FAN BASIS OF DESIGN: BIG ASS FAN: 24' DIAMETER BASIC 6

ال Jerome Bankov

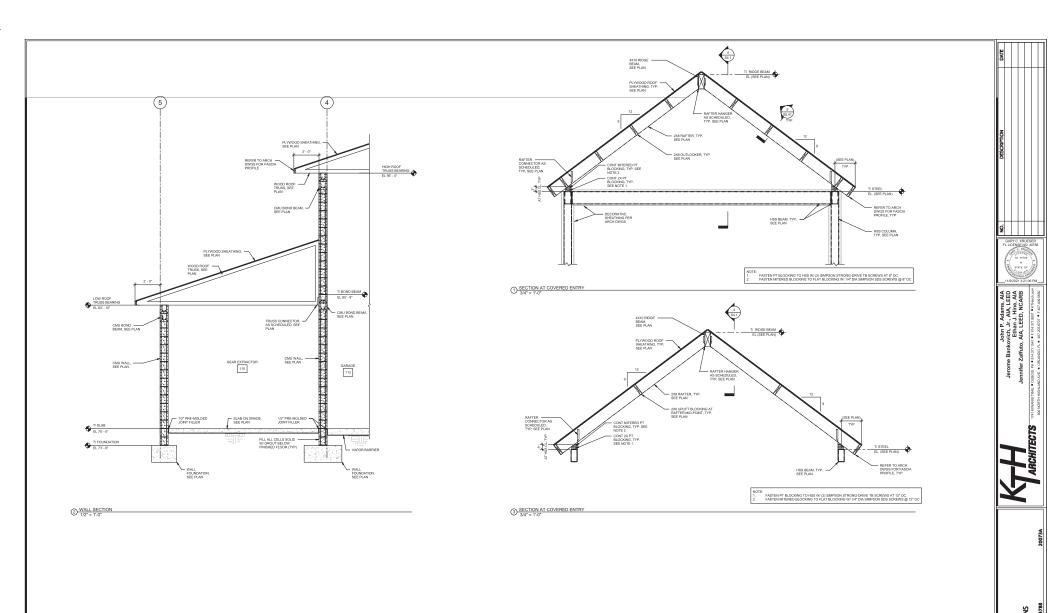
LAKE COUNTY
FIRE STATION NO.71
HIGH ROOF FRAMING PLAN







BIM 360x220073A - Lake County Fire Station 71/521157\_Lake Co FS 71\_STR\_R16.nt



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