			L POST-TENSION SLAB ON GRADE SPECIEI CATIONS AND NOTES:
IRUCTURAL NOTES			DESIGN CRITERIA:
THE STRUCTURE IS DESIGNED IN ACCO	ORDANCE WITH THE INTERNATIONAL	BUILDING CODE, 2015 EDITION WITH CITY O	DEDICITION OF THE POST OF CONTREMENTS. 1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE POST TENSION INSTITUTE "DESIGN OF
THE DESIGN GRAVITY LOADS ARE AS FO ROOF	FOLLOWS: 20 F	PSF LL, 15 PSF DL	POST-TENSIONED SLABS-ON-GROUND", THIRD EDITION. 2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) MANUALS
UNIT FLOOR LOAD	40 F STORAGE 60 F	PSF LL, 22 PSF DL PSF LL, 35 PSF DL	ACI-318 AND ACI-301, LATEST EDITIONS.
STAIRS, LANDINGS, & CORRIDORS	RS 100	PSF LL, 25 PSF DL	LATEST EDITION.
	125 ENED TO WITHSTAND THE WIND PRE	PSF LL, 25 PSF DL	 MIXING, TRANSPORTING, AND PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI-301, LATEST EDITION. FINISHING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI-302.1 AND ACI-304, LATEST EDITIONS.
ECTION 1609, OF THE INTERNATIONAL BL	BUILDING CODE, ACCORDING TO THE	FOLLOWING INFORMATION:	6. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD OF ANY SITE OR CONSTRUCTION CONDITIONS THAT MAY NOT
DESIGN WIND SPEED (Vult) RISK CATEGORY	134 MPH 11		7. THE FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH SOIL REPORT #GEO3082023 DATED AUGUST 2023 BY THE
WIND DIRECTIONALITY FACTOR IMPORTANCE FACTOR	0.85 1.0		MURILLO CO. SERVICES BASED ON THE FOLLOWING CRITERIA: NET ALLOWABLE BEARING PRESSURE: 1800 PSF. SPREAD FOOTINGS BEARING AT 3'-0" = 3000 PSF EDGE LIFT: Em=4.8' Ym=0.30"
EXPOSURE CATEGORY TOPOGRAPHIC FACTOR	B 1.0		CENTER LIFT: Em=8.7' Ym=0.60"
GUST EFFECT FACTOR ENCLOSURE CLASSIFICATION	0.85 ENCLOSED		MATERIALS:
HANDRAILS AND GUARDS SHALL BE DES	ESIGNED IN ACCORDANCE WITH TAB	LE 1607.1 OF THE INTERNATIONAL	1. ALL FILL MATERIALS USED WITHIN THE BUILDING PAD AREA SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
JILDING CODE AS FOLLOWS: A. HANDRAIL ASSEMBLES AND GUA	JARDS SHALL BE DESIGNED TO SUPF	PORT A LATERAL LOAD OF 50 POUNDS PER	2. A 2" (MIN.) GRANULAR LAYER SHALL BE PLACED OVER THE PROPERLY COMPACTED FILL MATERIAL.
LINEAR FOOT (PLF) APPLIED IN ANY STRUCTURE.	NY DIRECTION AT THE TOP AND TO T	RANSFER THIS LOAD THROUGH THE SUPPOR	3. 10 MIL VAPOR RETARDER SHALL BE INSTALLED OVER THE PREPARED BUILDING PAD. ALL JOINTS SHALL BE LAPPED 8" (MIN) AND TAPED. THE VAPOR RETARDER SHALL EXTEND THE FULL PROFILE OF THE EXTERIOR GRADE BEAM AND BE SECURED TO THE FORM BOARD.
B. INTERMEDIATE RAILS, BALUSTEF ON AN AREA NOT TO EXCEED ONE ARE NOT REQUIRED TO BE SUPERI	ERS, AND PANEL FILLERS SHALL BE I E SQUARE FOOT INCLUDING OPENIN RIMPOSED WITH THOSE IN NOTE (A)	DESIGNED TO SUPPORT A HORIZONTALLY AF GS AND SPACE BETWEEN RAILS. REACTION OR (C).	APPLIED NORMAL LOAD OF 50 PSF AS DUE TO THIS LOADING NY DIRECTION NY DIRECTION A POST-TENSIONING TENDONS SHALL BE 1/2" DIA, 7-WIRE, 270K, STRESS RELIEVED OR LOW RELAXATION STEEL WRAPPED IN PLASTIC SHEATHING IN ACCORDANCE WITH ASTM A-416. ALL DEAD END ANCHORAGE SHALL BE FACTORY SEATED. A MAXIMUM OF 18' AT DEAD ENDS AND 2" AT LIVE ENDS OF TENDON MAY REMAIN EXPOSED. ALL POST-TENSIONING MATERIALS SHALL COME FROM A PLANT WHICH IS CERTIFIED BY THE POST-TENSION INSTITUTE AND SHALL CONFORM TO THE "SPECIFICATIONS FOR UNBONDED SINGLE STRAND TENDONS". PROVIDE 10" MIN. EDGE DISTANCE TO THE FIRST TENDON FROM THE SLAB EDGE.
AT ANY POINT ON THE RAIL. THESE	SE LOADS NEED NOT BE ASSUMED T	O ACT CUMULATIVELY WITH THOSE IN NOTE	5. ALL REINFORCING BARS #4 AND LARGER SHALL CONFORM TO ASTM A-615 GRADE 60 AND ALL #2 AND #3 BARS SHALL CONFORM TO GRADE 40 OR 60. REINFORCING SHALL BE FREE FROM OIL, DIRT AND OTHER MATERIALS THAT WOULD REDUCE THE BOND WITH THE CONCRETE. SPLICES SHALL BE IN ACCORDANCE WITH ACI-31
STAIR TREADS AND STRINGERS SHALL I D SUPPORT A 300 LB. LOAD ON A 4 SQUA	L BE DESIGNED FOR A UNIFORM LOA JARE INCH AREA IN A POSITION THAT	D OF 100 PSF. INDIVIDUAL STAIR TREADS SH WILL CAUSE MAXIMUM STRESS.	AND THE LAP SPLICE SCHEDULE THIS SHEET.
EXCEPT FOR AREAS OF PUBLIC ASSEME	MBLY, AND EXCEPT FOR LIVE LOADS	WHICH EXCEED 100 PSF, FLOOR LIVE LOADS	S ARE REDUCED FOR SLAB
YSTEMS, BEAMS, GIRDERS, COLUMNS, P HE FLOOR LIVE LOAD IS REDUCED AT TH	PIERS, WALLS, AND FOUNDATIONS V HE RATE OF 0.08 PERCENT PER SQ.	VHICH SUPPORT A FLOOR AREA OF 150 SQ. F FT. OF FLOOR AREA SUPPORTED IN EXCESS	FT. OR GREATER.7.CONCRETE PROTECTION FOR REINFORCING SHALL BE AS SPECIFIED IN ACI-318, LATEST EDITION, SECTION 7.7 (UNO).S OF 150 SQ. FT.8.CONCRETE STRENGTH AND PROTECTION FOR REINFORCEMENT OF POURED-IN-PLACE MEMBERS.
HE REDUCTION DOES NOT EXCEED 40 PE OR "R" AS DETERMINED BY R= 23.1(1+DE	PERCENT FOR MEMBERS RECEIVING EAD LOAD/LIVE LOAD), IN ACCORDAI	LOADS FROM ONE LEVEL ONLY, 60 PERCEN NCE WITH SECTION 1607 OF THE BUILDING CO	NT FOR OTHER MEMBERS, CODE.
METHODS, PROCEDURES, AND SEQUEN	NCES OF CONSTRUCTION ARE THE	RESPONSIBILITY OF THE CONTRACTOR. THE	E CONTRACTOR SHALL TAKE
LL NECESSARY PRECAUTIONS TO MAINT.	ITAIN AND INSURE THE INTEGRITY O	F THE STRUCTURE AT ALL STAGES OF CONS	STRUCTION. MINIMUM COVER CONCRETE STRENGTH W/C RATIO
THE STRUCTURE HAS BEEN DESIGNED I HE RESPONSIBILITY OF THE CONTRACTO	D FOR THE IN-SERVICE LOADS ONLY. FOR. SUPPORTING FORMWORK FOR	THE METHODS, PROCEDURES, AND SEQUE ELEVATED CONSTRUCTION SHALL NOT BE R	ENCES OF CONSTRUCTION ARE (INCHES) (PSI) AT 28 DAYS REMOVED BEFORE THE CONCRETE GRADE BEAMS 3" BOTTOM, 3" SIDES, 1 1/2" TOP 3000 .50
AS GAINED SUFFICIENT STRENGTH TO S TRENGTH TO SAFELY STRESS THE POST	SAFELY STRESS THE TENDONS IN BE ST-TENSIONING TENDONS IN BOTH D	OTH DIRECTIONS AND THE STRUCTURE HAS IRECTIONS AND THE STRUCTURE HAS	S GAINES SUFFICIENT STRENGTH SLAB ON GRADE 300050 WELDED WIRE REINFORCING 2 5/8" BOTTOM
O SAFELY SUPPORT THE DEAD AND SUP	PERIMPOSED LOADS WHICH WOULD	BE SUBSEQUENTLY APPLIED.	CONV. REINFORCING (ONE LAYER REBAR) 1 5/8" BOTTOM
			POST-TENSION TENDONS MID-DEPTH OF SLAB THICKNESS
SCALES NOTED ON THE DRAWINGS ARE F THE DRAWINGS.	RE FOR GENERAL REFERENCE ONLY	. NO DIMENSIONAL INFORMATION SHALL BE	POST-TENSION TENDONS MID-DEPTH OF SLAB THICKNESS
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ONSTRUCTION:

- MAYBE REPAIRED WITH DUCT TAPE.

- ACCUMULATION OF WATER.
- ENGINEER OF RECORD.

TRESSING:

- INITIALLY STRESSED IN THE LONG DIRECTION ONLY.

QUALITY CONTROL:

- A. SOIL COMPACTION REPORTS

PERFORM ALL SITE AND UTILITY WORK IN THE VICINITY OF THE BUILDING PAD PRIOR TO BEGINNING FOUNDATION CONSTRUCTION. FOUNDATION DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION. REVISIONS TO ANY FOUNDATION MEMBER SIZES SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL POST-TENSION TENDONS, REINFORCING STEEL, AND ANY EMBEDDED ITEMS IN THE CONCRETE SLAB SHALL BE PROPERLY CHAIRED AND SUPPORTED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. WIRE TIES AT TENDONS SHALL NOT CUT TENDON SHEATHING. ALL TENDON SHEATHING WHICH IS DAMAGED OR MISSING SHALL BE REPLACED. SMALL AREAS (3" OR LESS)

THE CONTRACTOR SHALL VERIFY ALL STEPS, SLOPES, DEPRESSIONS, AND BLOCKOUTS WITH ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER TRADES AND CONSULTANT DRAWINGS FOR OPENINGS, INSERTS, EMBEDS, AND OTHER ITEMS REQUIRED BELOW OR WITHIN THE FOUNDATION. NO CONDUITS OR PIPES LARGER THAT 1" DIAMETER SHALL BE INSTALLED IN THE FOUNDATION WITHOUT PRIOR REVIEW BY THE ENGINEER OF RECORD. GROUPS OF CONDUITS OR PIPES MUST MAINTAIN A MINIMUM OF 4" BETWEEN EACH CONDUIT. NO PLUMBING LINES SHALL BE INSTALLED WITHIN, BELOW, OR WITHIN 3' PARALLEL TO A FOUNDATION BEAM. PLUMBING MAY CROSS THRU A FOUNDATION BEAM WITH A PROPERLY INSTALLED SLEEVE. A MINIMUM AMOUNT OF CONCRETE TO MATCH THE SLEEVE DIAMETER BELOW THE PIPE SHALL REMAIN BELOW OR THE BEAM DEPTH SHALL BE INCREASED AS REQUIRED. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. CONCRETE SHALL BE PROPERLY CONSOLIDATED, ESPECIALLY AT ALL SLAB EDGES, ANCHORAGES, AND EMBEDDED ITEMS. 10. FOUNDATIONS SHALL BE PLACED IN A TIMELY MANNER AFTER EXCAVATION TO AVOID UNNECESSARY DISTURBANCES, CAVING, OR

11. PROVIDE PROPER CURING OF SLAB IMMEDIATELY AFTER FINISHING. CURING METHODS SHALL BE IN ACCORDANCE WITH ACI RECOMMENDATIONS AND MAY INCLUDE SPRAY ON CURING COMPOUNDS OR WATERED BURLAP. 12. NO CONCRETE SHALL BE PLACED OUTSIDE OF THE REQUIREMENTS AND RECOMMENDATIONS OF THE STRUCTURAL DRAWINGS. ANY

DEVIATION FROM THE DRAWINGS OR NON-COMPLIANCE ITEMS SHALL BE REPORTED TO THE ENGINEER OF RECORD WITHIIN 24 HOURS FOR REVIEW. ANY DEVIATIONS OR NON-COMPLIANCE ITEMS ARE SUBJECT TO REMOVAL RECOMMENDATIONS BY THE

THE TENDONS SHALL BE ANCHORED AT 28.9 KIPS, BUT MAY BE INITIALLY STRESSED TO 33.0 KIPS PER TENDON. TO REDUCE POSSIBLE EARLY CONCRETE SHRINKAGE CRACKS, EACH TENDON SHOULD BE STRESSED TO APPROXIMATELY 11.0 KIPS WITHIN 16 HOURS FROM PLACEMENT OR AT APPROXIMATELY 1000 PSI CONCRETE STRENGTH. LONG, NARROW SLABS MAY BE

FINAL STRESSING MAY PROCEED WHEN THE CONCRETE HAS REACHED A STRENGTH OF 2000 PSI.

THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR THEIR REVIEW:

B. PRE-POUR INSPECTION REPORT IF NOT DONE BY ENGINEER OF RECORD. C. CONCRETE TEST RESULTS INCLUDING SLUMP, JOB SITE WATER ADDITION, AND CONCRETE STRENGTH. D. TENDON STRESSING ELONGATION RESULTS INCLUDING TENDON NUMBER, TENDON LENGTH, AND ACTUAL ELONGATION

> DEFERRED SUBMIT TAL ITEMS: THE FOLLOWING ITEMS WILL BE DEFERRED SUBMITTALS IN ACCORDANCE WITH IBC SECTION 106.3.4.2 AND LOCAL BLDG. DEPARTMENT REQUIREMENTS. ALL DEFERRED ITEMS SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO INSTALLATION. REFER TO CITY AMENDMENTS FOR ANY ADDITIONAL REQUIREMENTS. 1. POST-TENSION SHOP DRAWINGS 2. PRE-ENGINEERED WOOD TRUSSES

3. STAIRS AND HANDRAILS



<u>CONCRETE</u>

1. CONCRETE IN THE FOLLOWING AREAS SHALL BE OF COMPRESSIVE STRENGTH (F'C) AT 28 DAYS AND CLASS LISTEDBELOW. REFER TO CONCRETE SPECIFICATION FOR DEFINITION OF THE VARIOUS CLASSES OF CONCRETE.FOOTINGS3000 PSISLAB ON GRADE AND GRADE BEAMS3000 PSIW/C RATIO = 0.50

W/C RATIO = 0.50

W/C RATIO = 0.50

W/C RATIO = 0.40

W/C RATIO = 0.40

SLAB ON GRADE AND GRADE BEAMS	3000 PSI	
ELEVATOR PIT SLAB AND WALLS	3000 PSI	
STEM/BARRIER WALLS	3000 PSI	
CONCRETE COLUMNS	5000 PSI	
ELEVATED CONCRETE SLABS	5000 PSI	

2. FLY ASH MAY BE USED AS A POZZOLAN TO REPLACE A PORTION OF THE PORTLAND CEMENT IN A CONCRETE MIX. FLY ASH SHALL BE TYPE C OR F AND CONFORM TO ASTM C618. THE RATIO OF THE AMOUNT OF FLY ASH TO THE TOTAL AMOUNT OF FLY ASH AND CEMENT IN THE MIX SHALL NOT EXCEED 20 PERCENT.

3. THE FIRE PROTECTION RATING FOR THIS PROJECT IS BASED UPON THE USE OF NORMAL WEIGHT AGGREGATE CONCRETE MADE WITH CARBONATE AGGREGATES. CARBONATE AGGREGATES CONSIST MAINLY OF CALCIUM OR MAGNESIUM CARBONATE, E.G., LIMESTONE OR DOLOMITE, AND CONTAIN 40 PERCENT OR LESS QUARTZ, CHERT AND FLINT.

4. MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318 SECTION 7.7 FOR CONDITIONS NOT NOTED)

CONCRETE EXPOSED TO WEATHER:	
#5 BARS AND SMALLER	1 - 1/2 INCHES
ALL OTHER BARS	2 INCHES
CONCRETE CAST AGAINST EARTH	3 INCHES
GRADE BEAMS:	
ТОР	1 - 1/2 INCHES
BOARD FORMED SIDES	2 INCHES
EARTH FORMED SIDES	3 INCHES
BOTTOM	3 INCHES
SLABS ON GRADE:	
SINGLE LAYER OR TOP LAYER	2 INCHES
BOTTOM LAYER CAST AGAINST SOIL	3 INCHES
BOTTOM LAYER NOT CAST AGAINST SOIL	2 INCHES
COLUMNS	1 - 1/2 INCHES
PILASTERS & PLINTHS	2 INCHES
BEAMS	1 - 1/2 INCHES
WALLS BELOW GRADE (BACKFILLED SIDE)	2 INCHES
WALLS BELOW GRADE (NO BACKFILL)	3/4 INCHES

PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

8. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM 615, GRADE 60 FOR #4 BARS AND LARGER. ALL OTHER REINFORCEMENT MAY CONFORM TO GRADE 40.

9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS. FABRIC SHALL BE LAPPED TWO MESH AT SPLICES.

10. HIGH STRENGTH WIRE STRAND REINFORCEMENT FOR PRESTRESSED CONCRETE MEMBERS SHALL CONSIST OF WIRE CONFORMING TO ASTM A416, GRADE 270K.

11. REINFORCEMENT BARS SHALL NOT BE TACK WELDED, WELDED, HEATED, OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR REVIEWED BY THE STRUCTURAL ENGINEER.

12. WELDING OF REINFORCEMENT BARS, WHEN ACCEPTED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.4. ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCEMENT BARS SHALL CONFORM TO ASTM A233, CLASS E90XX.

13. REINFORCEMENT DESIGNATED AS "CONTINUOUS" MAY BE SPLICED USING TYPE "B" SPLICES. REINFORCEMENT BAR SPLICE LENGTHS IN BEAMS WHICH ARE LOCATED AT THE CENTERLINE OF SUPPORTS FOR BOTTOM BARS AND AT MIDSPAN FOR TOP BARS MAY BE 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE. PROVIDE STANDARD ACI HOOKS FOR TOP AND BOTTOM BARS AT DISCONTINUOUS ENDS OF ALL GRADE BEAMS.

14. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90-DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED 36 BAR DIAMETERS, AT CORNERS AND INTERSECTIONS.

15. HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENTS. VERTICAL JOINTS MAY OCCUR AT CENTER OF SPANS AT LOCATIONS REVIEWED BY MSP ENGINEERING.

16. CONSTRUCTION JOINTS BETWEEN PIERS AND PIER CAPS, FOOTINGS AND WALLS OR COLUMNS, OR WALLS, COLUMNS, BEAMS, AND THE FLOOR SYSTEM THEY SUPPORT SHALL BE PREPARED BY ROUGHENING THE CONTACT SURFACE TO A FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LAITANCE.

17. PROVIDE 1- NO. 4 REINFORCEMENT BAR X 4'-0" AT RE-ENTRANT CORNERS AND AROUND RECTANGULAR HOLES IN SLABS UNLESS NOTED OTHERWISE. PLACE BAR DIAGONAL TO CORNER WITH 1" CLEARANCE FROM THE TOP AND THE SIDE OF THE SLAB AT THE CORNER.

18. PROVIDE 2- NO. 4 REINFORCEMENT BARS X 4'-0" AT RE-ENTRANT CORNERS OF SLAB ON GRADE AT POUR STRIPS AND COLUMN BLOCKOUTS. PLACE BARS CENTERED IN THE SLAB AND DIAGONAL TO THE CORNER WITH 1" CLEARANCE FROM THE SLAB AT THE CORNER.

19. CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, CHAPTER 6.3.

OST-TENSIONED PRESTRESSED CONCRETE	

1. PRESTRESSING STEEL SHALL BE STRESS-RELIEVED AND SHALL CONFORM TO THE FOLLOWING:

SEVEN-WIRE STRAND ASTM DESIGNATION MINIMUM ULTIMATE STRENGTH BASED ON NOMINAL AREA 270 KSI MAXIMUM TEMPORARY STRESS TO OVERCOME FRICTION 216 KSI MAXIMUM ANCHORING STRESS 189 KSI EFFECTIVE DESIGN STRESS AS CALCULATED

2. THE CONTRACTOR SHALL SUBMIT CERTIFIED MILL REPORTS INDICATING COMPLIANCE WITH THE APPLICABLE ASTM SPECIFICATIONS OF PRESTRESSING STEEL DELIVERED TO THE PROJECT. THE MILL REPORTS SHALL BE BAED ON A MINIMUM OF TWO TESTS FOR EACH REEL, HEAT, OR LOT, AND SHALL INCLUDE AS A MINIMUM THE BREAKING LOAD, MODULUS OF ELASTICITY, ELONGATION RUPTURE, LOAD AT 1% EXTENSION, AREA OF STEEL, STRESS-STRAIN CURVE, YIELD POINT, COIL AND HEAT NUMERS. AN AFFIDAVIT FROM THE POST-TENSIONING SUPPLIER SHALL ALSO BE SUBMITTED STATING THAT STEEL FOR THE PROJECT CONFORMS TO THE ASTM SPECIFICATIONS.

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3. END ANCHORAGES, SHEATHING, COATING, COUPLERS AND MISCELLANEOUS HARDWARE SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE PTI "POST-TENSIONING MANUAL", GUIDE SPECIFICATION CHAPTER 3.

4. GROUT OR CONCRETE CONTAINING CHLORIDE, FLUORIDES, SULFIDES, THIOCYANATES, NITRATES, OR OTHER SUBSTANCES DETRIMENTAL TO PRESTRESSING STEEL WILL NOT BE PERMITTED.

5. THE CONTRACTOR SHALL SUBMIT POST TENSIONING ELONGATION AND LOSSES CALCULATIONS AND SHOP DRAWINGS FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE TENDON LAYOUTS AND PROFILES, STRESSING AND DEAD - END ANCHORAGE DETAILS, STRESSING SEQUENCE, DETAILS AT SLAB OPENINGS, AND OTHER RELATED DETAILS. SHOP DRAWINGS SHALL INCLUDE A TENDON NUMBERING SYSTEM SYSTEM FOR THE USE IN RECORDING OF FIELD MEASUREMENTS OF ELONGATIONS. CALCULATIONS SHALL INCLUDE WOBBLE AND CURVATURE FRICTION COEFFICIENTS, EFFECTIVE TENDON FORCES, LOSS OF PRESTRESS DUE TO ANCHORAGE SEATING, ELASTIC SHORTENING OF CONCRETE, CREEP AND SHRINKAGE OF CONCRETE, RELAXATION OF TENDON STRESS, FRICTION LOSS DUE TO TENDON CURVATURE, AND THE NUMBER OF TENDONS REQUIRED TO SATISFY THE POST-TENSIONING EFFECTIVE FORCE SHOWN ON THE STRUCTURAL DRAWINGS. RELAXATION VALUES AND WOBBLE COEFFICIENTS SHALL BE OBTAINED FROM THE MANUFACTURER. FABRICATION SHALL NOT BEGIN UNTIL THE REVIEW OF THE SUBMITTAL HAS BEEN COMPLETED BY THE STRUCTURAL ENGINEER. THE SUBMITTAL SHALL ALSO INCLUDE POST-TENSIONING PROCEDURES AND OTHER CERTIFICATIONS AND DATA REQUIRED FOR COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND THE POST - TENSION INSTITUTE (PTI).

6. FORCES INDICATED ON THE DRAWINGS ARE EFFECTIVE FORCES AFTER IMMEDIATE AND LONG TERM LOSSES. TENDON PLACEMENT SHALL CONFORM TO THE CONTROL POINTS SHOWN ON THE DRAWINGS AND SHALL HAVE A SMOOTH PARABOLIC DRAPE BETWEEN SUPPORTS. LOW POINTS ARE AT MIDSPAN UNLESS NOTED OTHERWISE. CONTROL POINTS LOCATE THE CENTER OF GRAVITY OF TENDON STEEL OR TENDON GROUP (C.G.S.). TENDONS AND ANCHORAGES SHALL BE PLACED WITH A TOLERANCE OF PLUS OR MINUS 1/8 INCH.

7. LOCATIONS OF THE CONSTRUCTION JOINTS, POUR STRIPS, AND LEAVE-OUTS IN THE STRUCTURE SHALL BE SUBMITTED. CONSTRUCTION JOINTS IN BEAMS AND JOISTS SHALL BE LOCATED WHERE THE C.G.S. OF THE TENDON GROUP COINCIDES WITH THE CENTER OF GRAVITY OF THE CONCRETE SECTION. CONSTRUCTION JOINTS IN CONCRETE SLABS SHALL BE LOCATED WHERE THE C.G.S. OF THE TENDON GROUP IS WITHIN THE MIDDLE THIRD OF THE SLAB THICKNESS.

8. ANY DEVIATION TO THE SPECIFIED TENDON PLACEMENT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

9. TENDON PLACEMENT SHALL BE REVIEWED BY THE OWNER'S AUTHORIZED AGENT PRIOR TO PLACEMENT OF CONCRETE.

10. TENDON LOCATIONS SHALL BE MARKED ON THE UNDERSIDE OF SLABS. THE METHOD FOR MARKING SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

11. TENDONS MAY BE BUNDLED. WHERE SLAB TENDONS ARE BUNDLED, THE TENDONS SHALL LAY FLAT.

12. PROVIDE TENDON SUPPORTS TO MAINTAIN CONCRETE COVERAGE AND CORRECT TENDON PROFILE. TENDONS SHALL BE FIRMLY ANCHORED TO PREVENT DISPLACEMENTS.

13. ADDITIONAL REINFORCEMENT FOR BURSTING, SPLITTING, AND SPALLING OF THE CONCRETE AT THE POST-TENSIONING ANCHORAGES SHALL BE DESIGNED AND DETAILED BY THE POST-TENSIONING SUPPLIER.

14. INSERTS AND SLEEVES SHALL BE CAST IN PLACE WHERE POSSIBLE. DRILLED AND POWER-DRIVEN FASTENERS MAY BE USED WHEN THEY WILL NOT INTERFERE WITH THE TENDONS AND TENDON ANCHORS AND WILL NOT CAUSE SPALLING OF THE CONCRETE.

15. TENDONS SHALL NOT BE STRESSED UNTIL CYLINDER TESTS INDICATE THAT THE IN PLACE CONCRETE HAS ATTAINED THE SPECIFIED INITIAL COMPRESSIVE STRENGTH (FCI').

16. TENDONS SHALL NOT BE STRESSED OVER 100 FEET IN A ONE-WAY PULL OR OVER 200 FEET IN A TWO-WAY PULL EXCEPT AS REVIEWED BY THE STRUCTURAL ENGINEER.

17. RAMS TO BE USED FOR STRESSING TENDONS SHALL BE CALIBRATED PRIOR TO STRESSING OPERATIONS AT EACH LEVEL AND AS REQUIRED. CERTIFIED CALIBRATION REPORTS SHALL BE SUBMITTED INDICATING FORCES AND GAGE READINGS REQUIRED TO STRESS TENDONS TO THE REQUIRED FORCE.

18. THE FOLLOWING GENERAL STRESSING SEQUENCES SHALL BE USED UNLESS NOTED OTHERWISE AND REVIEWED BY THE ENGINEER.

STRESS 60% OF BANDED TENDONS.
 STRESS 100% OF DISTRIBUTED TENDONS.

3. STRESS REMAINDER OF BANDED TENDONS.

19. THE SHORING DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. SHORING SHALL BE ADEQUATE TO SUPPORT THE TOTAL WEIGHT STRUCTURE AND TEMPORARY CONSTRUCTION LOADS. SHORING SHALL NOT BE REMOVED UNTIL STRESSING OF TENDONS IN BOTH BOTH DIRECTIONS FOR THAT LEVEL HAS BEEN COMPLETED, AND ELONGATIONS HAVE BEEN REVIEWED BY THE STRUCTURAL ENGINEER. REMOVAL OF SHORING SHALL NOT CAUSE OVERSTRESSING OF THE STRUCTURE.

20. REQUIRED ELONGATIONS, MEASURED ELONGATIONS, AND TENDON JACKING FORCES FOR TENDONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. MEASURED ELONGATIONS SHALL NOT VARY FROM THE REQUIRED ELONGATIONS BY +/- 7%. TENDON ENDS SHALL NOT BE CUT UNTIL THE ACTUAL ELONGATIONS HAVE BEEN REVIEWED BY THE STRUCTURAL ENGINEER.

21. TENDON END ANCHORAGES AND WEDGES SHALL BE PAINTED WITH RUST-INHIBITING PAINT BEFORE THE ANCHORAGE POCKET IS GROUTED. ANCHORAGE POCKETS SHALL BE CLEAN AND FILLED WITH NON-SHRINK GROUT.



WOOD FA	STENING SCHEDULE		1. ALL LUMBER A 2. THE SPECIES	ND SHEATHING SHAL	LL BE MARKED WITH THE SPECIES, GRADE E FOR THE FRAMING MEMBERS SHALL BE A	AND GRADING AGENCY IN ACCORDANCE WITH THE BUILDING CODE S FOLLOWS,:(U.N.O. ELSEWHERE IN THE STRUCTURAL DRAWINGS)
DNNECTION	FASTENING	LOCATION	MEMBER STUDS WALL PL	SPECIES SPF, DFL, SY ATES SYP	YP #2 #3	
IST TO SILL OR GIRDER	3- 8d COMMON (2 1/2" X 0.131")	TOENAIL	HEADER BEAMS POSTS 3. FINGER JOINTI	SYP SYP SYP D STUDS ARE ACCE	#2 #2 PTABLE IN LIEU OF SOLID SAWN MEMBERS	PROVIDED THEY ARE THE SAME SPECIES AND GRADE. FINGER
RIDGING TO JOIST	2- 8d COMMON (2 1/2" X 0.131")	TOENAIL EACH END	JOINTED STUE LEAST ONE FA 4. LVL MEMBERS	S SHALL BE LATERAI CE. SPECIFIED SHALL HA	LLY BRACED IN THE WEAK AXIS DURING CO	ONSTRUCTION UNTIL WALL SHEATHING HAS BEEN INSTALLED ON AT S: Fb=2600PSI, E=1,900,000 PSI, Fv=285 PSI. MULTIPLE PLIES SHALL
E PLATE TO JOIST OR BLOCKING	3 1/4" X 0.148" NAILS @ 12" O.C.	TYPICAL FACE NAIL	MEETING THE MEMBERS ARE 5. APB MEMBERS	DESIGN VALUES LIST NOT AN ACCEPTABL SPECIFIED SHALL B	ED MAY BE SUBSTITUTED FOR THE LVL ME E SUBSTITUTION. E ANTHONY POWER BEAMS OR SIMILAR PE	EMBERS PROVIDED THEY ARE THE SAME OVERALL SIZE. LSL
TE TO JOIST OR BLOCKING AT WALL PANELS	SEE SHEAR WALL SCHEDULE	BRACED WALL PANELS	MINIMUM PROI <u>SIZE</u> 5 1 /1" AND	PERTIES: PROPE SMALLER Fb=300	<u>ERTIES</u> 00PSI, E=2,100,000 PSI, Fv=300 PSI	
O STUD	2- 16d COMMON (3 1/2" X 0.162") 3- 3" X 0.131" NAIL	END NAIL	7 ["] AND L 6. GLU-LAM (GL) <u>USE</u> SIMPLE S	ARGER Fb=280 MEMBERS SHALL BE <u>GRADE COM</u> PAN 24F-V4 (DFL)	00PSI, E=2,100,000 PSI, Fv=300 PSI FABRICATED USING SYP OR DFL MEMBERS <u>/BINATION</u>) OR 24F-V3 (SYP)	S AND SHALL BE OF THE FOLLOWING GRADES:
) SOLE PLATE	4-8d COMMON (2 1/2" X 0.131") 4- 3" X 0.131" NAIL	TOENAIL	CONT. BI CANTILE ALL GLU-LAM B	AM 24F-V8 (DFL /ER 24F-V8 (DFL EAMS SHALL BE FAE) OR 24F-V5 (SYP)) OR 24F-V5 (SYP) 3RICATED WITH STANDARD CAMBER. GLU-	LAM BEAMS MUST BE PROPERLY INSTALLED ACCORDING TO
	2- 16d COMMON (3 1/2" X 0.162") 3- 3" X 0.131" NAIL	END NAIL	7. ALL LUMBER II WOOD PRESE	THE BEAM MEMBER. I CONTACT WITH CO RVER'S ASSOCIATION CORDANCE WITH MA	NCRETE OR EXPOSED TO WEATHER SHALI N. ALL FASTENERS INSTALLED OR IN CONT	BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN ACT WITH PRESSURE TREATED LUMBER SHALL BE FINISHED OR
TUDS	3" X 0.131" NAIL @ 8" O.C.	FACE NAIL	8. ROOF SHEATH SHALL BE FAS 9. FLOOR SHEAT	NG SHALL BE WOOD ENED WITH .131" DIA HING SHALL BE WOO) STRUCTURAL PANELS (WSP), 15/32" THICH A X 2 1/2" " NAILS AT 6" O.C. AT ALL PANEL E D STRUCTURAL PANELS (WSP), 23/32" THIC	K, 32/16 SPAN RATING APA RATED SHEATHING.ROOF SHEATHING DGES AND 12" O.C FOR ALL FIELD NAILING. K, 48/24 SPAN RATING APA RATED SHEATHING. FLOOR SHEATHING
PLATES	3" X 0.131" NAIL @ 12"O.C.	TYPICAL FACE NAIL	SHALL BE GLU AT 6" O.C. AT A FIRE-RETARDA	ED TO THE FRAMING LL PANEL EDGES AN NT TREATED AS SHO	MEMBERS AND FASTENED WITH .131 X 2 1 ID 12" O.C. FOR ALL FIELD NAILING. FLOOR DWN IN THE STRUCTURAL FRAMING DETAIL	/2" RING SHANK NAILS OR 2 1/2" LONG SIMPSON QUIK DRIVE SCREWS SHEATHING AT EXTERIOR WALL LOCATIONS SHALL BE .S.
	8- 16d COMMON (3 1/2" X 0.162") 12- 3" X 0.131" NAILS	LAP SPLICE	10. NAILS SPECIFI NAIL SIZI	ED IN THESE DRAWIN SHOWN DIAME	NGS SHALL BE OF THE FOLLOWING MINIMU	M SIZES (COMMON WIRE NAILS):
			8D 10[16[.131" .148" .162"	2 1/2" 3" 3 1/2" T THE DIAMETED AND LENGTH OUTON" (-	
E, LAFS AND INTERSECTIONS	2- 16a COMMON (3 1/2" X 0.162") 3- 3" X 0.131" NAIL		The umanic Given a constraint of the constraint	CONNECTORS SHOW	IN THE DIAMETER AND LENGTH SHOWN AB N ARE BASED ON SIMPSON STRONG-TIE A CEPTABLE PROVIDED THEY MEET THE SIMP M NAILING SPECIFIED AND PROPER MAIL OF	THE NAIL SIZE INDICATED BY THE MANUP. ND THEIR CATALOG PUBLISHED CAPACITY. CONNECTORS FROM SON STRONG-TIE ALLOWABLE LOADING. ALL CONNECTORS SHALL
UOUS HEADER, TWO PIECES	16d COMMON (3 1/2" X 0.162")	16" O.C. ALONG EDGE	12. EPOXY ANCHO GENERAL WOOD	CONSTRUCTION NO	TES AND DETAILS SHALL BE SIMPSON SET	-XP OR HILTI RE-500.
JUOUS HEADER TO STUD	4- 8d COMMON (2 1/2" X 0.131")	TOENAIL	1. ALL WOOD SPECIFICA	FRAMED CONSTRUC	TION SHALL BE COMPLETED IN ACCORDAN NSTRUCTION (NDS), LOCAL BUILDING DEPA	ICE WITH THE INTERNATIONAL BUILDING CODE (IBC), NATIONAL DESI RTMENT REQUIREMENTS, AND GENERALLY ACCEPTED CONSTRUCT
TO PLATE	3- 8d COMMON (2 1/2" X 0.131") 3- 3" X 0 131" NAII	TOENAIL	2. CONSTRUC 3. ROOF AND SPECIFIC C	TION BRACING SHAL FLOOR FRAMING LAY UANTITIES OF MATFI	L BE PROVIDED BY THE CONTRACTOR TO OUTS ARE PROVIDED TO ILLUSTRATE CON RIALS OR COMPONENTS REQUIRED FOR	MAINTAIN THE BUILDING PLUMB AND TRUE. IDITIONS OF CONSTRUCTION AND DO NOT NECESSARILY INDICATE CONSTRUCTION.
CORNER STUD	16d (3 1/2" X 0.162") AT 24" O.C.	FACE NAIL	4. ALL FASTER 5. FRAMED OF USE 2-TRIM	IERS AND CONNECT ENINGS: FOR OPEN MERS AND 1- KING P	IONS NOT SPECIFIED IN THESE DRAWINGS INGS LESS THAN 4'-0" WIDE, USE 1- TRIMMI OST EACH END. U.N.O. FOR OPENINGS 6'-0	SHALL BE IN ACCORDANCE WITH IBC TABLE 2304.9.1. ER AND 1- KING POST EACH END. FOR OPENINGS 4'-0" TO 6'-0" WID ' OR WIDER, USE 2- TRIMMERS AND 2- KING POSTS EACH FND. U.N.O
	3" X 0.131" NAIL @ 16" O.C.		6. THE NUMBE ONE. ALL E STUDS MIN	R OF WALL STUDS A NGINEERED WOOD E MUM OR 1 STUD MC	T BEARING POINTS OF MULTIPLE MEMBER BEAMS SHALL HAVE 3 STUDS MINIMUM AT I DRE THAN THE NUMBER OF PLIES AT EACH	BEAMS SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM BY EACH BEARING POINT (U.N.O ON PLAN). GIRDER TRUSSES SHALL HA BEARING POINT (U.N.O. ON PLAN). THE CENTERLINE OF THE BEAM A
GIRDER AND BEAMS	20d COMMON (//" X 0 102") AT 32" O C		GIRDER TR	JSS SHALL ALIGN WI	TH THE CENTERLINE OF THE SUPPORTING	STUDS PACK OR POST. STUD PACKS OR POST SHALL HAVE A
	3" X 0.131" NAIL @ 24" O.C.	BOTTOM STAGGERED	CONTINUO 7. ALL FLUSH	JS LOAD PATH TO TH BEAMS AND JOISTS ⁻	IE FOUNDATION WITH INTERMEDIATE SUPP TO BE SUPPORTED BY APPROVED HANGEP	PORTS THROUGH FLOOR CAVITY TO MATCH THOSE ABOVE.
	2- 20d (4" X 0.192") COMMON	BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL @ ENDS	7. ALL FLUSH 8. ALL WOOD EACH CORM 9. EXTERIOR	JS LOAD PATH TO TH BEAMS AND JOISTS ⁻ FRAMED CHIMNEY C IER WITH 11-10d N/ VALLS AT VOLUME C	TE FOUNDATION WITH INTERMEDIATE SUPP TO BE SUPPORTED BY APPROVED HANGEF ONSTRUCTION TO BE SHEATHED WITH 7/16 AILS IN EACH MEMBER (U.N.O. ON PLANS) EILINGS SHALL BE BALLOON FRAMED TO T	PORTS THROUGH FLOOR CAVITY TO MATCH THOSE ABOVE. R. " EXTERIOR WOOD STRUCTURAL PANEL. PROVIDE (1) CS16 STRAP A HE HEIGHT OF THE ADJACENT ROOF OR FLOOR FRAMING MEMBERS
	2- 20d (4" X 0.192") COMMON 3- 3" X 0.131" NAIL @ 24" O.C.	FACE NAIL @ TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL @ ENDS AND AT EACH SPLICE	CONTINUO 7. ALL FLUSH 8. ALL WOOD EACH CORM 9. EXTERIOR 10. STRUCTUR PLATES SH PIPES, A RE	JS LOAD PATH TO TH BEAMS AND JOISTS ⁻ FRAMED CHIMNEY C IER WITH 11-10d N/ VALLS AT VOLUME C AL MEMBERS SHALL ALL CONFORM TO TH PAIR PLATE WITH MI	TE FOUNDATION WITH INTERMEDIATE SUPP TO BE SUPPORTED BY APPROVED HANGEF ONSTRUCTION TO BE SHEATHED WITH 7/16 AILS IN EACH MEMBER (U.N.O. ON PLANS) ELLINGS SHALL BE BALLOON FRAMED TO T NOT BE CUT OR NOTCHED UNLESS NEEDE TE PROVISIONS OF IBC SECTIONS 2308.9.10 INIMUM 16 GAUGE X 1 1/2 INCH WIDE SHALL	PORTS THROUGH FLOOR CAVITY TO MATCH THOSE ABOVE. R. B" EXTERIOR WOOD STRUCTURAL PANEL. PROVIDE (1) CS16 STRAP A HE HEIGHT OF THE ADJACENT ROOF OR FLOOR FRAMING MEMBERS D FOR OTHER TRADES. NOTCHING AND BORING OF STUDS AND TOF AND 2308.9.11. WHERE TOP PLATES OR SOLE PLATES ARE CUT FOF BE FASTENED TO FACH. PLATE ACROSS AND TO FACH SIDE OF THE
	2- 20d (4" X 0.192") COMMON 3- 3" X 0.131" NAIL	BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL @ ENDS AND AT EACH SPLICE	CONTINUO 7. ALL FLUSH 8. ALL WOOD EACH CORM 9. EXTERIOR 10. STRUCTUR PLATES SH PIPES, A RE OPENING W INSTALLATI	JS LOAD PATH TO TH BEAMS AND JOISTS ⁻ FRAMED CHIMNEY C IER WITH 11-10d N/ VALLS AT VOLUME C AL MEMBERS SHALL ALL CONFORM TO TH PAIR PLATE WITH MI ITH NOT LESS THAN DN, A STUD SHOE RE	TE FOUNDATION WITH INTERMEDIATE SUPP TO BE SUPPORTED BY APPROVED HANGEF ONSTRUCTION TO BE SHEATHED WITH 7/16 AILS IN EACH MEMBER (U.N.O. ON PLANS) ELLINGS SHALL BE BALLOON FRAMED TO T NOT BE CUT OR NOTCHED UNLESS NEEDE THE PROVISIONS OF IBC SECTIONS 2308.9.10 INIMUM 16 GAUGE X 1 1/2 INCH WIDE SHALL (6) 16d NAILS, IN ACCORDANCE SECTION 2 EPAIR SUCH AS THE SIMPSON SS1.5 SHALL	PORTS THROUGH FLOOR CAVITY TO MATCH THOSE ABOVE. R. B" EXTERIOR WOOD STRUCTURAL PANEL. PROVIDE (1) CS16 STRAP A HE HEIGHT OF THE ADJACENT ROOF OR FLOOR FRAMING MEMBERS D FOR OTHER TRADES. NOTCHING AND BORING OF STUDS AND TOF AND 2308.9.11. WHERE TOP PLATES OR SOLE PLATES ARE CUT FOR . BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE 2308.9.8 OF THE IBC. WHERE STUDS HAVE BEEN DRILLED FOR PIPE BE INSTALLED.
TENERS AND CONNECTIONS SHOWN IN T DRAWINGS. TABLE SHOWN ABOVE IS DERIVED FROM	200 COMMON (4 X 0.132) AT 32 C.O. 3" X 0.131" NAIL @ 24" O.C. 2- 20d (4" X 0.192") COMMON 3- 3" X 0.131" NAIL HE SCHEDULE ABOVE SHALL BE THE MINIMUM RECOMMON IBC TABLE 2304.9.1	URIED UNLESS SUPERCEDED ELSEWH	ICONTINUOU 7. ALL FLUSH 8. ALL WOOD EACH CORM 9. EXTERIOR 10. STRUCTUR PLATES SH PIPES, A RE OPENING W INSTALLATI IERE 11. METAL CON 2006 IBC CH	JS LOAD PATH TO TH BEAMS AND JOISTS ⁻ FRAMED CHIMNEY C IER WITH 11-10d N/ VALLS AT VOLUME C AL MEMBERS SHALL ALL CONFORM TO TH PAIR PLATE WITH MI ITH NOT LESS THAN ON, A STUD SHOE RE NECTORS AND FAST APTER 17	TE FOUNDATION WITH INTERMEDIATE SUPP TO BE SUPPORTED BY APPROVED HANGEF ONSTRUCTION TO BE SHEATHED WITH 7/16 AILS IN EACH MEMBER (U.N.O. ON PLANS) EILINGS SHALL BE BALLOON FRAMED TO T NOT BE CUT OR NOTCHED UNLESS NEEDE TE PROVISIONS OF IBC SECTIONS 2308.9.10 INIMUM 16 GAUGE X 1 1/2 INCH WIDE SHALL (6) 16d NAILS, IN ACCORDANCE SECTION 2 EPAIR SUCH AS THE SIMPSON SS1.5 SHALL TENERS SHALL MEET THE CORROSION RES	PORTS THROUGH FLOOR CAVITY TO MATCH THOSE ABOVE. C. S" EXTERIOR WOOD STRUCTURAL PANEL. PROVIDE (1) CS16 STRAP A HE HEIGHT OF THE ADJACENT ROOF OR FLOOR FRAMING MEMBERS D FOR OTHER TRADES. NOTCHING AND BORING OF STUDS AND TOF AND 2308.9.11. WHERE TOP PLATES OR SOLE PLATES ARE CUT FOR . BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE 2308.9.8 OF THE IBC. WHERE STUDS HAVE BEEN DRILLED FOR PIPE BE INSTALLED. ISTANCE REQUIREMENTS OF THE 2006 TEXAS REVISIONS TO THE
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PRE-ENGINEERED WOOD TRUSS NOTES: WORK INCLUDED

- BLOCKING, CURBING, MISCELLANEOUS FRAMING AND BRACING. 2. DEFINITIONS
- ROOF DECKS OR FLOORS IN BUILDINGS. INSTALLATION OF TRUSSES. 3. DESIGN
- JURISDICTION.

B. MANUFACTURER SHALL FURNISH DESIGN DRAWINGS BEARING SEAL AND REGISTRATION NUMBER OF A CIVIL OR STRUCTURAL ENGINEER LICENSED IN STATE WHERE TRUSSES ARE TO BE INSTALLED. DRAWINGS SHALL BE APPROVED BY ARCHITECT PRIOR TO FABRICATION. C. TRUSS DESIGN DRAWINGS SHALL INCLUDE AS MINIMUM INFORMATION:

1. SPAN, DEPTH OR SLOPE AND SPACING OF TRUSSES; 2. REQUIRED BEARING WIDTH;

3. DESIGN LOADS, AS APPLICABLE:

- A. TOP CHORD LIVE LOAD;
- B. TOP CHORD DEAD LOAD;
- C. BOTTOM CHORD LIVE LOAD;
- D. BOTTOM CHORD DEAD LOAD;
- F. WIND AND SEISMIC CRITERIA;
- 6. ALPINE OR MITEK PLATE TYPE, GAUGE, SIZE AND LOCATION OF PLATE AT EACH JOINT;
- 7. LUMBER SIZE, SPECIES AND GRADE FOR EACH MEMBER; 8. LOCATION OF ANY REQUIRED CONTINUOUS LATER BRACING;
- 11. LOCATION OF JOINTS;
- 12. CONNECTION REQUIREMENTS FOR: A. TRUSS TO TRUSS GIRDERS;
- B. TRUSS PLY TO PLY; AND
- C. FIELD SPLICES. MATERIALS

A. LUMBER: 2. MOISTURE CONTENT OF LUMBER SHALL BE NO GREATER THAN 19 PERCENT AT TIME OF FABRICATION. SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS). LUMBER AS INDICATED IN THE STRUCTURAL FRAMING DETAILS.

B. METAL CONNECTOR PLATES: DETERMINED IN ACCORDANCE WITH ANSI/TPI 1.

SPECIFICATIONS. 5. FABRICATION

A. TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JIGGING AND PRESSING EQUIPMENT MEETING REQUIREMENTS OF ANSI/TPI 1, SECTION 3. TRUSS MEMBERS SHALL BE ACCURATELY CUT TO LENGTH ANGLE AND TRUE TO LINE TO ASSURE PROPER FITTING JOINTS WITHIN TOLERANCES SET FORTH IN ANSI/TPI 1. CHAPTER 3. AND PROPER FIT WITH OTHER WORK. HANDLING, INSTALLATION AND BRACING

A. TRUSSES SHALL BE HANDLED DURING FABRICATION, DELIVERY AND AT JOBSITE SO AS NOT TO BE SUBJECTED TO EXCESSIVE BENDING. B. TRUSSES SHALL BE UNLOADED ON SMOOTH GROUND TO AVOID LATERAL STRAIN. TRUSSES SHALL BE PROTECTED FROM DAMAGE THAT MIGHT RESULT FROM ON-SITE ACTIVITIES AND ENVIRONMENTAL CONDITIONS. PREVENT TOPPLING WHEN BANDING IS REMOVED. C. HANDLE DURING INSTALLATION IN ACCORDANCE WITH LATEST VERSION OF BUILDING COMPONENT SAFETY INFORMATION (BCSI 1) FROM TPI,

AND ANSI/TPI 1. INSTALLATION SHALL BE CONSISTENT WITH GOOD WORKMANSHIP AND GOOD BUILDING PRACTICES AND SHALL BE **RESPONSIBILITY OF TRUSS INSTALLER.** D. APPARENT DAMAGE TO TRUSSES, IF ANY, SHALL BE REPORTED TO MANUFACTURER PRIOR TO INSTALLATION.

UNTIL SPECIFIED PERMANENT BRACING IS INSTALLED. F. CUTTING AND ALTERING OF TRUSSES IS NOT PERMITTED.

UNSHEATHED TRUSSES.

TRUSSES DURING INSTALLATION.

WOOD SHRINKAGE NOTES:

- TO ALLOW FOR SHRINKAGE.
- 3.) VENTS ARE TO BE INSTALLED WITH DOUBLE FLASHING TO PERMIT MOVEMENT.

- SEASON. 8.) VERTICAL MECHANICAL AND SPRINKLER SYSTEMS ARE TO BE INSTALLED TO COMPENSATE FOR WOOD SHRINKAGE.
- ADDITIONAL SHORTENING OF BUILDING WALLS.

ANTICIPATED SHRINKAGE MOVEMENT - 5 STORY

ROOF	1.375"
5TH LEVEL	1.00"
4TH LEVEL	0.68"
3RD LEVEL	0.46"
2ND LEVEL	0.25"

1. FABRICATE, SUPPLY AND ERECT WOOD TRUSSES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK TO INCLUDE ANCHORAGE,

TRUSS: THE TERMS "TRUSS" AND "WOOD TRUSS COMPONENT" REFER TO OPEN WEB LOAD CARRYING ASSEMBLIES SUITABLE FOR SUPPORT OF

MANUFACTURER: A MANUFACTURER WHO IS REGULARLY ENGAGED IN DESIGN AND FABRICATION OF WOOD TRUSS COMPONENTS. TRUSS INSTALLER: BUILDER, CONTRACTOR OR SUB-CONTRACTOR WHO IS RESPONSIBLE FOR THE FIELD STORAGE, HANDLING AND

A. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THESE SPECIFICATIONS AND WHERE ANY APPLICABLE DESIGN FEATURE IS NOT SPECIFIED HEREIN, DESIGN SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) OF THE AMERICAN FOREST AND PAPER ASSOCIATION (AF & PA), AND DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES (ANSI/TPI 1) OF THE TRUSS PLATE INSTITUTE (TPI), AND CODE OF

E. CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION; AND

4. ADJUSTMENT TO LUMBER AND PLATE DESIGN LOADS FOR CONDITION OF USE;

5. REACTIVE FORCES, THEIR POINTS OF OCCURRENCE AND DIRECTION;

9. CALCULATED DEFLECTION RATIO AND/OR MAXIMUM DEFLECTION FOR LIVE AND TOTAL LOAD;

10. MAXIMUM AXIAL COMPRESSIVE FORCES IN TRUSS MEMBERS;

1. LUMBER USED FOR TRUSS MEMBERS SHALL BE IN ACCORDANCE WITH PUBLISHED VALUES OF LUMBER RULES WRITING AGENCIES APPROVED BY THE BOARD OF REVIEW OF AMERICAN LUMBER STANDARDS COMMITTEE. LUMBER SHALL BE IDENTIFIED BY GRADE MARK OF A LUMBER INSPECTION BUREAU OR AGENCY APPROVED BY THAT BOARD, AND SHALL BE AS SHOWN ON DESIGN DRAWINGS.

3. ADJUSTMENT OF VALUES FOR DURATION OF LOAD OR CONDITIONS OF USE SHALL BE IN ACCORDANCE WITH NATIONAL DESIGN

4. FLOOR TRUSS MEMBERS WHICH WILL BE LOCATED WITHIN THE EXTERIOR WALL CONSTRUCTION SHALL BE FIRE RETARDANT TREATED

1. METAL CONNECTOR PLATES SHALL NOT LESS THAN .0356 INCHES IN THICKNESS (20 GAGE) AND SHALL MEET OR EXCEED ASTM A653 GRADE 37, AND SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A653, COATING DESIGNATION G60. DESIGN VALUES SHALL BE

2. IN HIGHLY CORROSIVE ENVIRONMENTS, SPECIAL APPLIED COATINGS OR STAINLESS STEEL MAY BE REQUIRED. 3. AT THE REQUEST OF ARCHITECT, MANUFACTURER SHALL FURNISH A CERTIFIED RECORD THAT MATERIALS COMPLY WITH STEEL

E. TRUSSES SHALL BE SET AND SECURED LEVEL AND PLUMB, AND IN CORRECT LOCATION. TRUSSES SHALL BE HELD IN CORRECT ALIGNMENT

G. CONCENTRATED LOADS SHALL NOT BE PLACED ATOP TRUSSES UNTIL ALL SPECIFIED BRACING HAS BEEN INSTALLED AND DECKING IS PERMANENTLY NAILED IN PLACE. SPECIFICALLY AVOID STACKING FULL BUNDLES OF DECKING OR OTHER HEAVY MATERIALS ONTO

H. ERECTION BRACING IS ALWAYS REQUIRED. PROFESSIONAL ADVICE SHOULD ALWAYS BE SOUGHT TO PREVENT TOPPLING OR DOMINOING OF

I. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FURNISHING THE MATERIALS USED FOR INSTALLATION AND PERMANENT BRACING.

THE FOLLOWING ACTIONS ARE REQUIRED (GENERAL CONTRACTOR TO COORDINATE WITH ALL TRADES AS REQUIRED): 1.) ALL HOLES AND NOTCHES FOR HORIZONTAL PLUMBING PIPES ARE TO BE OVERSIZED TO COMPENSATE FOR SHRINKAGE. 2.) SWING JOINTS AND FLEXIBLE CONNECTIONS, OFFSETS AND EXPANSION/CONTRACTION JOINTS ARE TO BE UTILIZED IN THE FABRICATION OF PIPING

4.) HANGERS FOR PIPING BELOW 4th FLOOR ARE REQUIRED TO BE ADJUSTED SEVERAL MONTHS AFTER COMPLETION OF CONSTRUCTION. 5.) SLIP JOINTS ARE REQUIRED FOR ALL SHEET METAL VERTICAL DOWN-SPOUTS, VENTS, ETC. TO COMPENSATE FOR SHRINKAGE. 6.) RIGID ELECTRICAL CONDUIT INSTALLED VERTICALLY SHOULD BE PROVIDED WITH FLEXIBLE JOINTS TO PERMIT MOVEMENT.

7.) ALL ROOF DRAINS ARE TO BE ADJUSTED TO THE FINISHED ROOF SURFACE AT THE TIME OF OCCUPANCY AND ALSO EVERY YEAR PRIOR TO RAINY

9.) PLATES SHOULD BE FASTENED TIGHT TO STUDS TO REDUCE COMPRESSIVE SPACE BETWEEN PLATE AND STUD TO MINIMIZE ANY POTENTIAL

10.) ALL WOOD STRUCTURAL PANELS ON WALLS ARE REQUIRED TO HAVE A 1/2" RELIEF GAP AT EACH FLOOR LEVEL TO RELIEVE POSSIBLE BULGING. 11.) AT STUCCO CONSTRUCTION INSTALL HORIZONTAL EXPANSION JOINTS, SLIP JOINT FLASHING, ETC.

PENETRATION

ELONGATED PENETRATION TO ALLOW FOR WOOD MOVEMENT (SEE TABLE ABOVE FOR POTENTIAL MOVEMENT AMOUNTS) — PLUMBING PIPE CENTERED IN

GERALD T. WYNNE 94081 CENSE 4.19.24
Associates Associates Associates Associates Architects 4808 Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904 Email: ffice@mucaseyarchitects.com
Gerald T. Wynne, P.E. Consulting Structural Engineer 16107 Kensington Drive, Suite 278 Sugar Land, TX 77479 Phone : 832.334.3260 Texas Firm #20169
A Multi-Family Community Job No. 2302
Date: 10-31-2023 PERMIT RESUBMITTAL Date: 01-08-2024 ISSUE FOR CONSTRUCTION Date: 04-19-2024

Date:
Date:
Date:
DESIGN CRITERIA &
GENERAL NOTES
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PLUMBING PENETRATION DETAIL AT WOOD STUD WALLS

MASONRY NOTES:	
 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY LOCAL BUILDING CODE. 	
 ALL CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH (f'm) = 1500 PSI IN ACCORDANCE WITH ASTM C-90 TYPE N 	
 ALL MORTAR SHALL BE TYPE 'M' OR 'S' WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MORTAR OF MASONRY UNITS, ASTM C270. 	
4. PROVIDE LAP SPLICES FOR ALL REINFORCED CELLS AND BOND BEAMS ACCORDING TO TABLE BELOW.	
 ALL REINFORCED MASONRY WALLS WITH OPENINGS UP TO 4'-0" WIDE, SHALL HAVE ONE BAR (MINIMUM) AT EACH SIDE OF OPENINGS. FOR OPENINGS LARGER THAN 4'-0" WIDE PROVIDE 2 BARS AT EACH SIDE OF OPENINGS. FILL ALL REINFORCED CELLS WITH 2000 P.S.I. GROUT. REINFORCING AT EDGES OF OPENINGS TO MATCH TYPICAL WALL REINFORCING SIZE AND EXTEND TO TOP OF WALL. 	
6. ALL MASONRY WALLS WITH OPENINGS UP TO 4'-0" WIDE, SHALL HAVE ONE 8" (MIN) LINTEL WITH 2-#5 BARS. OPENINGS LARGER THAN 4'-0" WIDE UP TO 8'-0" WIDE SHALL HAVE A 16"(MIN) LINTEL WITH 2-#5 BARS TOP AND BOTTOM. FILL ALL REINFORCED CELLS WITH 2000 PSI GROUT.	
7 ALL REINFORCED MASONRY WALL CORNERS AND INTERSECTIONS SHALL HAVE ONE VERTICAL	

- BAR (MINIMUM). FILL REINFORCED CELL (S) WITH 2000 PSI GROUT. REINFORCING SHALL MATCH TYPICAL MASONRY REINFORCING SIZE AND EXTEND TO THE TOP OF THE WALL. CELLS WITH 2000 PSI GROUT.
- 8. ALL MASONRY WALLS SHALL HAVE ONE 8" (MIN) BOND BEAM WITH 2-#5 BARS AT EACH FLOOR LEVEL, THE TOP OF THE WALL, AND A MAXIMUM OF 12'-0" VERTICALLY ON THE WALL. FILL ALL REINFORCED
- 9. GROUT SOLID ALL REINFORCED CELLS AND BOND BEAMS WITH 2000 PSI GROUT, U.N.O.
- 10. PROVIDE 9 GAGE TRUSS TYPE HORIZONTAL JOINT REINFORCING AT 16" O.C. FOR ALL CMU WALLS, U.N.O.
- 11. CONTROL JOINTS SHALL BE SPACED PER PLANS AND SPECIFICATIONS, 2 X WALL HEIGH, OR AT A MAX. SPACING OF 40'-0" CENTERS, UNLESS SPECIFICALLY APPROVED OTHERWISE BY ENGINEER. PROVIDE ONE VERTICAL BAR (MIN.) FIRST CELL EACH SIDE OF CONTROL JOINTS. FILL CELL WITH 2000 PSI GROUT

LAP SPLICE LENGTHS FOR MASONRY REINFORCEMENT

REINFORCING BAR SIZE	MIN LAP SPLICE LENGTH
#5	45"
#6	54"
#7	63"
#8	72"
#9	81"
#10	91"
#11	102"

BRICK LINTELS:

MA

STEEL LINTELS SHALL BE PROVIDED TO SUPPORT BRICK AT ALL LOCATIONS AS FOLLOWS:

LINTEL SIZE (LLV)

X. CLEAR SPAN	
4'-0"	
6'-0"	
8'-0"	
10'-0"	
12'-0"	

FOR INFORMATION.

ALL LINTELS SHALL HAVE 8" MINIMUM BEARING ON BRICK EACH END. 2.

<5X3 1/2X1/4

<5X3 1/2X5/16

<5X3 1/2X3/8

<6X4X3/8 <7X4X3/8

ALL LINTELS SHALL BE HOT-DIPPED GALVANIZED OR PROPERLY PAINTED. 3. 4. ALL ARCHES SHALL HAVE ROLLED LINTELS OR BE CONSTRUCTED IN ACCORDANCE WITH BIA RECOMMENDATIONS FOR SELF-SUPPORTING ARCHES. REFER TO ARCHITECTURAL DRAWINGS

STRUCTURAL STEEL FRAMING NOTES:

- 1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH "THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 360 AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AISC 303.
- 2. ALL STRUCTURAL STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST OSHA SAFETY STANDARDS FOR STEEL ERECTION. STRUCTURAL DOCUMENTS INDICATE TYPICAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL OSHA REQUIREMENTS ARE MET.
- 3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS:

A. WIDE FLANGE SHAPES	ASTM A992 (50 KSI)
B. CHANNELS	ASTM A36 (36 KSI)
C. ANGLES	ASTM A36 (36 KSI)
D. SQUARE AND RECTANGULAR TUBES (HSS)	ASTM A500, GRADE B (46 KSI)
E. ROUND TUBES (HSS)	ASTM 500, GRADE B (42 KSI)
F. STEEL PIPE	ASTM A53, GRADE B (35 KSI)
G. PLATES AND BARS	ASTM A36 (36 KSI)
H. BOLTS	ASTM A325 OR A490
J. NUTS	ASTM A563
K. WASHERS	ASTM F436
L. ANCHOR RODS	ASTM F1554 (36 KSI)
M. HEADED STUDS	ASTM A108
N. WELDED ELECTRODES	E70XX

- 4. ALL NON-SHRINK GROUTS FOR LEVELING OF BASE PLATES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 P.S.I. AT 28 DAYS. GROUT SHALL COMPLY WITH CORPS OF ENGINEERS SPECIFICATION CRD-C 621.
- 5. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE.
- 6. CAMBER INDICATED ON THESE DRAWINGS IS THE REQUIRED CAMBER AT TIME OF ERECTION. CAMBERED BEAMS SHALL BE ERECTED SUCH THAT THE PROFILE OF THE BEAMS ARE CROWNED UPWARD.
- 7. ALL STEEL AT OR BELOW FINISHED GRADE OR BELOW FLOOR SLAB SHALL RECEIVE 2 COATS OF BITUMINOUS PAINT OR 3" MINIMUM CONCRETE COVER.
- 8. ALL STRUCTURAL STEEL THAT IS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.
- 9. MC INDICATES MOMENT CONNECTION
- 10. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. DRAWINGS TO HAVE CONTRACTORS STAMP AFFIXED PRIOR TO REVIEW. CERTIFIED COPIES OF MILL TEST REPORTS SHALL BE AVAILABLE UPON REQUEST.
- 11. THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE. GAS CUTTING TORCHES SHALL NOT BE USED TO CORRECT FABRICATION ERRORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

STRUCTURAL STEEL CONNECTION NOTES

- LOCAL STRENGTHENING AS REQUIRED.
- REQUIRED BY AISC SPECIFICATIONS.

- INTERSECTION OF MEMBER CENTERLINES, UNO.
- ENGINEER OF RECORD.
- BEEN BROUGHT INTO SNUG CONTACT.
- TIGHTENING.
- THREADS CRIMPED.
- INSPECTED BY AN INDEPENDENT TESTING LABORATORY
- DURING THE PROJECT.

1. ALL CONNECTIONS, SPLICES AND ERECTION PIECES SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR'S STRUCTURAL ENGINEER LICENSED IN THE JURISDICTION OF THE PROJECT UNLESS INDICATED AS BEING FULLY DESIGNED ON THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE. CALCULATIONS BEARING THE ENGINEER'S SEAL AND SIGNATURE SHALL BE AVAILABLE UPON REQUEST OF THE STRUCTURAL ENGINEER. DESIGN, DETAIL, FURNISH AND INSTALL STIFFENERS, CONTINUITY PLATES, DOUBLER PLATES, OR OTHER NECESSARY ADDITIONAL PARTS AS REQUIRED FOR

2. UNLESS NOTED OTHERWISE, DETAILS INDICATED ON DRAWINGS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. DETAILS INDICATED ON DRAWINGS ARE NOT INTENDED TO CONVEY COMPLETE CONNECTOR SIZES, PLATE SIZES, WELD SIZES, NUMBER OF BOLTS, OR ANY OTHER SPECIFIC INFORMATION THAT IS OBTAINED THROUGH DESIGNING OF A CONNECTION FOR A GIVEN SET OF LOADS. DETAILS SHOWN ON THE DRAWINGS DO NOT SHOW ERECTION AIDS. PROVIDE ERECTION AIDS AS REQUIRED AND REMOVE THEM AFTER WORK IS COMPLETE.

3. 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

4. DESIGN ALL CONNECTIONS FOR FORCES INDICATED ON THE DRAWINGS. CONNECTION DESIGN FORCES INDICATED ON THE DRAWINGS ARE UNFACTORED UNO. WHERE THE REACTION IS OMITTED FROM THE DRAWINGS, DESIGN THE CONNECTION FOR ONE HALF OF THE MAXIMUM TOTAL UNIFORM LOAD AS DEFINED IN THE AISC STEEL CONSTRUCTION MANUAL 13TH EDITION, TABLE 3-6. MOMENT CONNECTIONS SHALL BE DESIGNED FOR THE FULL PLASTIC MOMENT OF THE BEAM IF THE MOMENT IS OMITTED FROM THE DRAWINGS. BRACING CONNECTIONS SHALL DEVELOP FULL FORCES SHOWN ON DRAWINGS AT EACH END OF MEMBER.

5. NO CONNECTION SHALL CONSIST OF LESS THAN (2) ³/₄" DIA. A325-N BOLTS OR WELDS DEVELOPING LESS THAN 10 KIPS. MINIMUM WELD SIZE SHALL BE A 3/16" FILLET WELD.

6. FOR CONNECTION DESIGN AND DETAILING, SET CONNECTION WORK POINT AT

7. DO NOT USE OVERSIZED OR SLOTTED HOLES FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL

8. 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 MAN USING AN ORDINARY SPUD WRENCH. THE "SNUG-TIGHT" CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE

9. ALL A325 BOLTS SUBJECT TO DIRECT TENSION OR DESIGNATED "SC" (SLIP-CRITICAL) SHALL BE PRE-TENSIONED IN ACCORANCE WITH ONE OF THE FOLLOWING METHODS AS DESCRIBED IN THE AISC "MANUAL OF STEEL CONSTRUCTION": TURN OF NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING OR DIRECT TENSION INDICATOR

10. EXPANSION JOINT CONNECTIONS AND SLIP CONNECTION INDICATED SHALL PROVIDE FREE MOVEMENT. BOLTS SHALL HAVE NUTS FINGER TIGHTENED AND

11. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP. ALL FIELD CONNECTIONS SHALL BE

12. ALL WELDING INCLUDING 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 STRUCTURAL ENGINEER. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME







FORMING NOTES:

1. T.O. CONCRETE ELEVATION PER PLAN. COORD. W/ ARCHITECTURAL DRAWINGS. 2. SLAB SHALL BE NORMAL-WEIGHT

CONCRETE (fc = 5000 PSI), U.N.O. SEE PLAN FOR SLAB THICKNESS 3. C"X" DENOTES CIP CONCRETE COLUMN (fc=5000 PSI). SEE SD-03 FOR COLUMN SIZE AND REINF.

4. SR"X" DENOTES STUD RAIL. SEE SHEET 3/SD-11 FOR STUD RAIL SCHEDULE. 5. 8" CMU WALL SHALL BE PLACED AROUND ALL ELEVATOR SHAFTS AND STAIR WELLS NOT SHOWN WITH CONCRETE WALLS. REINF SHALL BE #5 @ 48"O.C. VERT. WITH

TRUSS-TYPE REINF. @ 16" O.C. HORIZ. FILL REINF. CELLS WITH 2000 PSI GROUT. 6. COORDINATE ALL SLAB STEPS, SLOPES, AND BLOCKOUTS WITH ARCH'L DWGS. 7. ALL EXTERIOR WALLS SHALL BE FASTENED

TO THE PODIUM SLAB WITH $\frac{1}{2}$ " DIA X 7" EMBED CAST IN PLACE ANCHOR BOLTS AT 48" O.C. WITH NUT AND OVERSIZE WASHER. 8. ALL FASTENERS INSTALLED IN PRESERVATIVE TREATED WOOD SHALL BE

COATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR PRESERVATIVE TYPE.

9. REFER TO DETAIL 3/SD-13 FOR EMBED PLATE AND BOLT REQUIREMENTS AT

SHEARWALL HOLDDOWNS.

10. REFER TO SHEET SD10-SD13 FOR TYPICAL DETAILS 11. WARP CONCRETE AT ALL BALCONY DOOR

LOCATIONS.

2nd PODIUM FORMING PLAN 1/8" = 1'-0"

Architects 4808 Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904 Email: office@mucaseyarchitects.com				
LOST OAKS A Multi-Family Community Harris County, Texas Job No. 2302				
ISSUE FOR PERMIT Date: 10-31-2023 PERMIT RESUBMITTAL Date: 01-08-2024 ISSUE FOR CONSTRUCTION Date: 04-19-2024 Date: Date: Date: Date: Date: $Iote:$ $Iote$				

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GERALD T. WYNNE

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4.19.24

MUCASEY

Associates





NOTES:

Fe = EFFECTIVE PT FORCE
 TENDON HEIGHTS SHOWN ARE MEASURED FROM BOTTOM OF SLAB TO THE CENTER OF THE TENDON
 TENDONS TO BE LOCATED A MID-DEPTH OF SLAB (CGS) AT ALL SLAB EDGES, U.N.O.







REINFORCING NOTES: 1. ALL BARS SHOWN ARE TO BE PLACED IN SLAB AS FOLLOWS: (T) - INDICATES TOP OF SLAB (B) - INDICATES BOTTOM OF SLAB (T&B) - INDICATES TOP AND BOTTOM OF SLAB 2. SEE SHEETS SD-10 THRU SD-13 FOR TYPICAL DETAILS 3. BARS GREATER THAN 50'-0" MAY BE SPLICED AT THIRD POINT IN SPAN WITH SPLICE LENGTH EQUAL TO 1.3Ld. SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE SPLICED AT ANY ONE LOCATION. 4. (1) #4 CONT. AT ALL SLAB EDGES (T&B) EXTENDING 2'-6" MIN. BEYOND RE-ENTRANT CORNERS. WHERE BARS TERMINATE AT SLAB EDGE, PROVIDE 90 DEG. STD. HOOK AT ENDS OF BARS. 5. BOTTOM REINF. SHALL BE SPACED AT 12" O.C. MAX. U.N.O.

6. DENOTES TEMPERATURE REINF. SEE 6/SD-10.







3rd FLOOR FRAMING PLAN

FRAMING NOTES:

1. FLOOR FRAMING SHALL BE PRE-ENGINEERED WOOD TRUSSES AS

FOLLOWS: UT = 18" DEEP UNIT TRUSS AT 24" O.C. CT = 16 1/2" DEEP CORRIDOR TRUSS

AT 24" O.C. SCT = CORRIDOR TRUSS W/SLOPED TOP CHORD AT 24" O.C.

BT = BALCONY TRUSS W/SLOPED TOP

CHORD AT 24" O.C. ST = 16 1/2" DEEP BALCONY TRUSS IN STORAGE CLOSET AT 24" O.C.

2. SPAN ARROWS INDICATE TRUSS SPAN DIRECTION. ACTUAL LAYOUT OF TRUSSES SHALL BE PROVIDED BY TRUSS MANUFACTURER.

3. HATCHED WALLS ON PLAN INDICATE LOAD BEARING WALL LOCATIONS. REFER TO STUD SCHEDULE FOR ADDITIONAL INFORMATION.

4. COORDINATE PLUMBING AND MECHANICAL LOCATIONS WITH FRAMING AND TRUSS DRAWINGS. FRAMING MEMBERS SHALL NOT BE DAMAGED DUE TO INSTALLATION OF MECHANICAL OR PLUMBING SYSTEM AND ENGINEER SHALL BE NOTIFIED OF CONFLICTS FOR PROPER RESOLUTION. TRUSS MANUFACTURER SHALL PROVIDE OPEN CHASES AS REQUIRED FOR MEP SYSTEMS.

INDICATES OPEN CHASE AREA TO ACCOMMODATE THIS OPEN AREA. SEE DETAIL 6/SD-31 FOR ADDITIONAL INFORMATION.

5. PRE-MANUFACTURED WALL COMPONENTS MAY BE USED IN LIEU OF HEADERS SHOWN. MANUFACTURER SHALL DESIGN COMPONENTS TO SUPPORT FRAMING LOADS FROM THIS LEVEL AND THOSE ABOVE AS REQUIRED.

6. COORDINATE ALL STEPS, SLOPES AND DIMENSIONS NOT SHOWN HERE WITH ARCHITECTURAL DRAWINGS.

7. ALL DETAILS AND SECTIONS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, U.N.O.

> HEADER/BEAM SCHEDULE (1) (2) 2X8 2 (2) 2X10 (2) 2X12 (3) 2X8 (3) 2X10 (3) 2X12 $\langle 7 \rangle$ (2) 1 $\frac{3}{4}$ X 9 $\frac{1}{4}$ LVL $\left< 8 \right>$ (2) 1 $\frac{3}{4}$ X 11 $\frac{1}{4}$ LVL $\left< 9 \right>$ (2) 1 $\frac{3}{4}$ X 14 LVL (10) (2) 1 $\frac{3}{4}$ X 16 LVL (11) (2) 1 ³/₄ X 18 LVL $\langle 12 \rangle$ (3) 1 $\frac{3}{4}$ X 11 $\frac{1}{4}$ LVL (3) 1 ³/₄ X 14 LVL $\langle 14 \rangle$ (3) 1 $\frac{3}{4}$ X 18 LVL (15) 7 X 18 APB (16) 5.125 X 16.5 APB FB = FLUSH BEAM

<u>NOTE:</u> EXTERIOR OPENINGS AT NON-BRG WALLS SHALL HAVE (2) 2X6 OR LADDER FRAMED HEADERS, TYP. U.N.O.

GERALD T. WYNNE 94081 94081 94081 CENSSOCIATES 4.19.24 CENSSOCIATES Associates Ass				
Gerald T. Wynne, P.E. Consulting Structural Engineer 16107 Kensington Drive, Suite 278 Sugar Land, TX 77479 Phone : 832.334.3260 Texas Firm #20169				
LOST OAKS A Multi-Family Community Harris County, Texas Job No. 2302				
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1/8'' = 1'-0''				



4th FLOOR FRAMING PLAN



1. FLOOR FRAMING SHALL BE PRE-ENGINEERED WOOD TRUSSES AS

UT = 18" DEEP UNIT TRUSS AT 24" O.C. CT = 16 1/2" DEEP CORRIDOR TRUSS

AT 24" O.C. SCT = CORRIDOR TRUSS W/SLOPED TOP

BT = BALCONY TRUSS W/SLOPED TOP CHORD AT 24" O.C.

ST = 16 1/2" DEEP BALCONY TRUSS IN STORAGE CLOSET AT 24" O.C.

2. SPAN ARROWS INDICATE TRUSS SPAN DIRECTION. ACTUAL LAYOUT OF TRUSSES SHALL BE PROVIDED BY TRUSS MANUFACTURER.

3. HATCHED WALLS ON PLAN INDICATE LOAD BEARING WALL LOCATIONS. REFER TO STUD SCHEDULE FOR ADDITIONAL INFORMATION.

4. COORDINATE PLUMBING AND MECHANICAL LOCATIONS WITH FRAMING AND TRUSS DRAWINGS. FRAMING MEMBERS SHALL NOT BE DAMAGED DUE TO INSTALLATION OF MECHANICAL OR PLUMBING SYSTEM AND ENGINEER SHALL BE NOTIFIED OF CONFLICTS FOR PROPER RESOLUTION. TRUSS MANUFACTURER SHALL PROVIDE OPEN CHASES AS REQUIRED FOR MEP SYSTEMS.

INDICATES OPEN CHASE AREA TO ACCOMMODATE THIS OPEN AREA. SEE DETAIL 6/SD-31 FOR ADDITIONAL INFORMATION.

5. PRE-MANUFACTURED WALL COMPONENTS MAY BE USED IN LIEU OF HEADERS SHOWN. MANUFACTURER SHALL DESIGN COMPONENTS TO SUPPORT FRAMING LOADS FROM THIS LEVEL AND THOSE ABOVE AS REQUIRED.

6. COORDINATE ALL STEPS, SLOPES AND DIMENSIONS NOT SHOWN HERE WITH ARCHITECTURAL DRAWINGS.

7. ALL DETAILS AND SECTIONS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, U.N.O.

> HEADER/BEAM SCHEDULE (1) (2) 2X8 2 (2) 2X10 (2) 2X12 (3) 2X8 (3) 2X10 6 (3) 2X12 $\left< 7 \right>$ (2) 1 $\frac{3}{4}$ X 9 $\frac{1}{4}$ LVL $\left< 8 \right>$ (2) 1 $\frac{3}{4}$ X 11 $\frac{1}{4}$ LVL $\left< 9 \right>$ (2) 1 $\frac{3}{4}$ X 14 LVL $\langle 10 \rangle$ (2) 1 $\frac{3}{4}$ X 16 LVL (11) (2) 1 ³/₄ X 18 LVL $\langle 12 \rangle$ (3) 1 $\frac{3}{4}$ X 11 $\frac{1}{4}$ LVL (3) 1 ³/₄ X 14 LVL $\langle 14 \rangle$ (3) 1 $\frac{3}{4}$ X 18 LVL

(15) 7 X 18 APB

(16) 5.125 X 16.5 APB

FB = FLUSH BEAM

<u>NOTE:</u> EXTERIOR OPENINGS AT NON-BRG WALLS SHALL HAVE (2) 2X6 OR LADDER FRAMED HEADERS, TYP. U.N.O.









11		BRACING PLAN NOTES: 1. SHEARWALL AND HOLDDOWN TYPES ARE IDENTIFIED AS FOLLOWS: IXX = SHEARWALL TYPE AND NAIL SPACING IXX = HOLDDOWN TYPE AND LOCATION REFER TO SHEARWALL AND HOLDDOWN SCHEDULES (SHEETS SD-40, 41) FOR ADDITIONAL INFORMATION. 2. HATCHED LINE SHOWN ON PLAN INDICATES	GERALD T. WYNNE B. 94081 7CENSE 4.19.24
		 SHEARWALL LOCATIONS AND APPROXIMATE LENGTH. REFER TO SHEARWALL SCHEDULE AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION. 3. SHEARWALL SHEATHING SHALL EXTEND FULL HEIGHT OF WALL SHEATHING SHALL EXTEND FULL HEIGHT OF WALL FROM PLATE TO PLATE AND FULL LENGTH OF WALL INDICATED ON PLAN INCLUDING BEHIND TUBS, FURR-DOWNS, WALL BUMP-OUTS, AND CHASES, U.N.O. 	MUCASEY &
		 4. ALL SHEARWALL SHEATHING SHALL BE ATTACHED DIRECTLY TO THE FACE OF THE STUDS. ALL SOUND CHANNELS INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE INSTALLED ON THE OPPOSITE FACE OF THE SHEARWALL. 4. COORDINATE PLUMBING, MECHANICAL, AND ELECTRICAL LOCATIONS WITH SHEARWALL AND HOLDDOWN INSTALLATION. STRUCTURAL 	Associates Architects 4808 Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904 Email: office@mucaseyarchitects.com
		MEMBERS SHALL NOT BE DAMAGED DUE TO INSTALLATION BY OTHER TRADES AND ENGINEER SHALL BE NOTIFIED OF CONFLICTS. FOR PROPER RESOLUTION. REFER TO STRUCTURAL NOTES AND DETAILS FOR ACCEPTABLE REPAIRS FOR TYPICAL CONDITIONS. 5. ALL DETAILS AND SECTIONS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR	Gerald T. Wynne, P.E. Consulting Structural Engineer 16107 Kensington Drive, Suite 278 Sugar Land, TX 77479 Phone : 832.334.3260 Texas Firm #20169
		CONDITIONS, U.N.O.	
Υ			LOST OAKS A Multi-Family Community Job No. 2302
			ISSUE FOR PERMIT Date: 10-31-2023 PERMIT RESUBMITTAL Date: 01-08-2024 ISSUE FOR CONSTRUCTION Date: 04-19-2024 Date: Date: Date: Date:
			$1 \text{ST FLOOR} \\ \text{BRACING PLAN} \\ 1/8'' = 1'-0''$
	R BRACING PLAN		(S3-10)
" = 1'-0"			



2ND FLOOR BRACING PLAN

BRACING PLAN NOTES:

1. SHEARWALL AND HOLDDOWN TYPES ARE IDENTIFIED AS FOLLOWS:

XX = SHEARWALL TYPE AND NAIL SPACING

S = HOLDDOWN TYPE AND LOCATION

REFER TO SHEARWALL AND HOLDDOWN SCHEDULES (SHEETS SD-40, 41) FOR ADDITIONAL INFORMATION.

2. HATCHED LINE SHOWN ON PLAN INDICATES SHEARWALL LOCATIONS AND APPROXIMATE LENGTH. REFER TO SHEARWALL SCHEDULE AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

3. SHEARWALL SHEATHING SHALL EXTEND FULL HEIGHT OF WALL FROM PLATE TO PLATE AND FULL LENGTH OF WALL INDICATED ON PLAN INCLUDING BEHIND TUBS, FURR-DOWNS, WALL BUMP-OUTS, AND CHASES, U.N.O.

4. ALL SHEARWALL SHEATHING SHALL BE ATTACHED DIRECTLY TO THE FACE OF THE STUDS. ALL SOUND CHANNELS INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE INSTALLED ON THE OPPOSITE FACE OF THE SHEARWALL.

4. COORDINATE PLUMBING, MECHANICAL, AND ELECTRICAL LOCATIONS WITH SHEARWALL AND HOLDDOWN INSTALLATION. STRUCTURAL MEMBERS SHALL NOT BE DAMAGED DUE TO INSTALLATION BY OTHER TRADES AND ENGINEER SHALL BE NOTIFIED OF CONFLICTS. FOR PROPER RESOLUTION. REFER TO STRUCTURAL NOTES AND DETAILS FOR ACCEPTABLE REPAIRS FOR TYPICAL CONDITIONS.

5. ALL DETAILS AND SECTIONS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, U.N.O.

	GERALD T. WYNNE 94081 94081 CENSE 4-19-24 4-19-24 MENNE Associates Associates Associates Associates Associates Associates Associates Associates Associates Architects
ISSUE FOR PERMIT Date: 01-08-2024 Date: 01-08-2024 Date: 01-08-2024 Date: 01-08-2024 Date: 01-08-2024 Date: 01-08-2024 Date: 01-08-2024 Date: 01-08-2024	office@mucaseyarchitects.com Gerald T. Wynne, P.E. Consulting Structural Engineer 16107 Kensington Drive, Suite 278 Sugar Land, TX 77479 Sugar Land, TX 7747 Sugar Land, TX 77479 Sugar Land, TX 7747 Sugar Land, TX 77479 Sugar Land, TX 77479 Sugar Land, TX 77479 Sugar Land, TX 7747 Sugar Land,
ISSUE FOR PERMIT Date: 10-31-2023 PERMIT RESUBMITTAL Date: 01-08-2024 ISSUE FOR CONSTRUCTION Date: 04-19-2024 Date: Date:	LOST OAKS A Multi-Family Community Harris County, Texas Job No. 2302
Date: 2ND FLOOR BRACING PLAN $1/8" = 1'-0"$	ISSUE FOR PERMIT Date: 10-31-2023 PERMIT RESUBMITTAL Date: 01-08-2024 ISSUE FOR CONSTRUCTION Date: 04-19-2024 Date: Date: Date: 2ND FLOOR BRACING PLAN 1/8'' = 1'-0''



3RD FLOOR BRACING PLAN 1/8" = 1'-0"

BRACING PLAN NOTES:

1. SHEARWALL AND HOLDDOWN TYPES ARE IDENTIFIED AS FOLLOWS:

XX = SHEARWALL TYPE AND NAIL SPACING

S = HOLDDOWN TYPE AND LOCATION

REFER TO SHEARWALL AND HOLDDOWN SCHEDULES (SHEETS SD-40, 41) FOR ADDITIONAL INFORMATION.

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5. ALL DETAILS AND SECTIONS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, U.N.O.

GERALD T. WYNNE 94081 VCENSE 4-19-24					
Associates Associates Associates Associates Associates Atchitects 4808 Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904 Email: office@mucaseyarchitects.com					
Gerald T. Wynne, P.E. Gonsulting Structural Engineer 16107 Kensington Drive, Suite 278 Sugar Land, TX 77479 Phone : 832.334.3260 Texas Firm #20169					
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1/8" = 1'-0"					



4TH FLOOR BRACING PLAN 1/8" = 1'-0"

BRACING PLAN NOTES:

1. SHEARWALL AND HOLDDOWN TYPES ARE IDENTIFIED AS FOLLOWS:

XX = SHEARWALL TYPE AND NAIL SPACING

S = HOLDDOWN TYPE AND LOCATION

REFER TO SHEARWALL AND HOLDDOWN SCHEDULES (SHEETS SD-40, 41) FOR ADDITIONAL INFORMATION.

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4. ALL SHEARWALL SHEATHING SHALL BE ATTACHED DIRECTLY TO THE FACE OF THE STUDS. ALL SOUND CHANNELS INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE INSTALLED ON THE OPPOSITE FACE OF THE SHEARWALL.

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GERALD T. WYNNE B. C. PHONE B. C. PHONE B					
Associates Associates Associates Associates Associates Anchitects 4808 Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904 Email: office@mucaseyarchitects.com					
Gerald T. Wynne, P.E. Consulting Structural Engineer 16107 Kensington Drive, Suite 278 Sugar Land, TX 77479 Phone : 832.334.3260 Texas Firm #20169					
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S3-40					



5TH FLOOR BRACING PLAN

BRACING PLAN NOTES:

1. SHEARWALL AND HOLDDOWN TYPES ARE IDENTIFIED AS FOLLOWS:

XX = SHEARWALL TYPE AND NAIL SPACING

S = HOLDDOWN TYPE AND LOCATION

REFER TO SHEARWALL AND HOLDDOWN SCHEDULES (SHEETS SD-40, 41) FOR ADDITIONAL INFORMATION.

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3. SHEARWALL SHEATHING SHALL EXTEND FULL HEIGHT OF WALL FROM PLATE TO PLATE AND FULL LENGTH OF WALL INDICATED ON PLAN INCLUDING BEHIND TUBS, FURR-DOWNS, WALL BUMP-OUTS, AND CHASES, U.N.O.

4. ALL SHEARWALL SHEATHING SHALL BE ATTACHED DIRECTLY TO THE FACE OF THE STUDS. ALL SOUND CHANNELS INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE INSTALLED ON THE OPPOSITE FACE OF THE SHEARWALL.

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5. ALL DETAILS AND SECTIONS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, U.N.O.

GERALD T. WYNNE 94081 94					
Associates Architects 4808 Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904					
Gerald T. Wynne, P.E. Gerald T. Wynne, P.E. Consulting Structural Engineer 16107 Kensington Drive, Suite 278 Sugar Land, TX 77479 Phone : 832.334.3260 Texas Firm #20169					
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1/8" = 1'-0" S3-50					



			(TO BE U	CL SED ONLY	LASS A SP	LICE NOTED ON	DRAWING	6)	
	A.C.I. REINFORCING DEVELOPMENT LENGTH SCHEDULE (Ld)								
	REINF.	2000	4000	CONCR	RETE STRENGT	1 (PSI)	0000	10000	10000
-	#2	3000	4000	5000	6000	7000	8000	10000	12000
	#3	17"	15"	13"	12"	12"	12"	12"	12"
F	#4	22"	19"	1/"	16"	15"	14"	12"	12"
	#5	28"	24"	22"	20"	18"	17"	12"	12"
	#6	33"	29"	26"	24"	22"	21"	15"	15"
	#7	48"	42"	38"	34"	32"	30"	27"	27"
	#8	55"	48"	43"	39"	36"	34"	30"	30"
	#9	62"	54"	48"	44"	41"	38"	34"	34"
F	#10	70"	61"	54"	50"	46"	43"	39"	39"
-	#11	78"	67"	60"	55"	51"	48"	43"	43"
			LE	ENGTH SCI	HEDULE (1.3 Ld)			
	SIZE	3000	4000	5000	6000	7000	8000	10000	12000
	#3	23"	20"	17"	16"	16"	16"	16"	16"
	#4	29"	25"	23"	21"	20"	19"	16"	16"
	#5	37"	32"	29"	26"	24"	23"	16"	16"
	#6	43"	38"	34"	32"	29"	28"	20"	20"
	#7	63"	55"	50"	45"	42"	39"	36"	36"
	#8	72"	63"	56"	51"	47"	45"	39"	39"
	#9	81"	71"	63"	58"	54"	50"	45"	45"
		91"	80"	71"	65"	60"	56"	51"	51"
	#10	.						1	
	#10 #11	102"	88"	78"	72"	67"	63"	56"	56"

	FOOTING SCHEDULE			
FOOTING MARK	FOOTING SIZE	REINFORC		
F5	5'-0"x5'-0"x2'-6"			
F6	6'-0"x6'-0"x1'-8"			
F7	7'-0"x7'-0"x1'-11"			
F8	8'-0"x8'-0"x2'-2"			

COLUMN SCHEDULE NOTES:

- 1. SEE STRUCTURAL NOTES ON SHEET XXXXXXXXX
- 2. REFER TO COLUMN SCHEDULE FOR INDICATED CONCRETE STRENGTHS
- 3. COLUMN SPLICES INDICATED IN COLUMN SCHEDULE ARE DEFINED BELOW. "A" DENOTES CLASS "A" LAP SPLICE
- "B" DENOTES CLASS "B" TENSION LAP SPLICE
- 4. COLUMN BAR LAYOUT INDICATED IN COLUMN SCHEDULE IS DEFINED BELOW.

("X"F) DENOTES "X" NUMBER OF BARS EACH COLUMN FACE ("X"L / "Y"S) DENOTES "X" NUMBER OF BARS ON EACH FACE OF LONG DIMENSION OF COLUMN

- AND "Y" NUMBER OF BARS ON EACH FACE OF SHORT DIMENSION OF COLUMN 5. WHERE VERTICAL REINFORCEMENT REDUCES IN COLUMN ABOVE, THE TOTAL AMOUNT OF VERTICAL REINFORCEMENT FROM COLUMN BELOW SHALL EXTEND INTO COLUMN ABOVE WITH THE SPECIFIED LAP SPLICE, TYP. U.N.O.
- 6. WHERE SPLICES OCCUR BETWEEN BARS OF DIFFERENT SIZES, THE SPLICE
- LENGTH SHALL BE BASED ON THE LARGER SIZE BAR.
- 7. AT CONTRACTOR'S OPTION FOOTING DOWEL EMBEDMENT MAY BE INCREASED TO FACILITATE PLACEMENT. 8. POSITION OF 90 DEGREE AND 135 DEGREE END HOOKS ON TIES SHALL BE ALTERNATED
- AT EACH TIE SPACE, TYP. U.N.O.
- 9. VERTICAL REINFORCEMENT MUST BE TIED AS SHOWN BY LINES IN THE TIE
- PATTERNS ABOVE WHEN X DIMENSION IS GREATER THAN 6 INCHES. 10. VERTICAL REINFORCEMENT NEED NOT BE TIED WHEN X DIMENSION EQUALS 6 INCHES OR LESS.
- 11. PROVIDE DOWELS FROM FOUNDATION TO MATCH COLUMN VERTICAL BARS, TYPICAL U.N.O IN SCHEDULE.
- 12. INTERIOR HOOP TIES CAN BE REPLACED WITH PAIRS OF CROSS TIES.
- 13. FLOOR TO FLOOR DIMENSIONS SHOWN IN ALL COLUMN SCHEDULES ARE NOMINAL DIMENSIONS. SEE PLANS FOR ACTUAL TOP OF SLAB ELEVATIONS.

NOTE:

1. SEE CONC. SPECIFICATION FOR CONCRETE STRENGTH, REINFORCING COVER, AND OTHER REQUIREMENTS

2. AT COLUMN LOCATIONS IN WHICH BARRIER CABLES ARE ANCHORED, PROVIDE SCHEDULED TIES AT 10" O.C. AT A DISTANCE 3'-6" ABOVE FINISH FLOOR IF CABLES ARE ANCHORED AT BOTTOM OF COLUMN AND A DISTANCE 2'-0" BELOW THE TOP OF COLUMN IF CABLES ARE ANCHORED AT THE TOP OF THE COLUMN.

3. PROVIDE GRADE 75 REINFORCEMENT (Fy = 75 KSI) FOR ANY BARS #10 AND LARGER

CONCRETE COLUMN SCHEDULE

1.	CIP CONCRETE COLUMN
2.	VERT. REINF.
3.	TIES

GERALD T. WYNNE BERALD T. WYNNE BERALD T. WYNNE BERALD T. WYNNE BERALD T. WYNNE GERALD T. WYNN					
Associates Acchitects Akos Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904 Email: office@mucaseyarchitects.com Cered T. Wynne, P.E. Consulting Structural Engineer Nator Kensington Drive, Suite 278 Sugar Land, TX 77479 Phone : 832.334.3260					
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SD-02					

7

SLAB THICKNESS	LAYERS	REINF.	LOCATION
6" - 8"	1	#4 @ 14" O.C.	MID-DEPTH
9" - 10"	1	#4 @ 10" O.C.	MID-DEPTH
11" - 14"	1	#4 @ 8" O.C.	MID-DEPTH
12" - 16"	2	#4 @ 14" O.C.	TOP & BOTTOM
17" - 20"	2	#4 @ 10" O.C.	TOP & BOTTOM
21" - 24"	2	#4 @ 8" O.C.	TOP & BOTTOM

(9)

(4)	GRID	(2)	(5)	4 ,
	• 00 •		<u> </u>	+

(2) TOP STEEL REINFORGING - SEE PLAN	LAYER OF REB
(3) 4-#5 X 9'-0" EACH WAY AT BOTTOM OF SLAB OVER COLUMN	TENDONS ACC
(4) #4 SUPPORT BARS - SEE SHOP DRAWINGS (5) BANDED TENDONS	(10) NOTE: WHERE THE PLAN, BAN SUPERCEDE DI
(6) 3- ADD'L TIES AT 3" O.C AT TOP OF COLUMN	BANDED TEND
(7) TOP OF COLUMN POUR SHALL TERMINATE ¹ / ₂ " MIN. BELOW BOTTOM OF SLAB.	SPECIFIED CGS DIRECTLY BELC
(8) CENTER OF GRAVITY OF TENDON (CGS) - SEE PLAN	(11) NOTE: NOT ALL SEE PLAN FOR

A.C.I. REINFORCING DEVELOPMENT LENGTH SCHEDULE (Ld)							
CONCRETE STRENGTH (PSI)							
3000	4000	5000	6000	7000	8000	10000	12000
17"	15"	13"	12"	12"	12"	12"	12"
22"	19"	17"	16"	15"	14"	12"	12"
28"	24"	22"	20"	18"	17"	12"	12"
33"	29"	26"	24"	22"	21"	15"	15"
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55"	48"	43"	39"	36"	34"	30"	30"
62"	54"	48"	44"	41"	38"	34"	34"
70"	61"	54"	50"	46"	43"	39"	39"
78"	67"	60"	55"	51"	48"	43"	43"

94081

4.19.24

Architects

Email:

07 Kensington Drive, Suite 27 Sugar Land, TX 77479 Phone : 832.334.3260

Texas Firm #20169

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Multi

DETAILS

N.T.S.

1) ROOF TRUSS (24" DEEP MIN) 2) ROOF SHEATHING 3) WALL FRAMING (FRT)- SEE PLAN NO (4) EDGE NAIL (5) 2X BLOCK EA. BAY W/ (4) 8d NAILS GERALD T. WYNNE (6) UPLIFT CLIPS - SEE UPLIFT SCHEDULE 94081 7) GIRDER TRUSS (GT) 4.19.24 MUCASEY Associates Architects 4808 Gibson, Suite 200 Houston, Texas 77007 Tel. (713) 521-1233 Fax (713) 520-1904 (1) Email: office@mucaseyarchitects.com (5)— **Gerald T. Wynne, P.E** Consulting Structural Engine 07 Kensington Drive, Suite 2 Sugar Land, TX 77479 Phone : 832.334.3260 Texas Firm #20169 ommunity 2 **EXTERIOR ROOF DETAIL** 1) ROOF TRUSS (24" DEEP MIN) 2) ROOF SHEATHING amily (3) WALL FRAMING (FRT)- SEE PLAN NOTES (4) EDGE NAIL (5) 2X BLOCK EA. BAY W/ (4) 8d NAILS $\boldsymbol{\mathcal{N}}$ (6) UPLIFT CLIPS - SEE UPLIFT SCHEDULE Multi \checkmark SSUE FOR PERMIT Date: 10-31-2023 **PERMIT RESUBMITTAL** Date: 01-08-2024 ISSUE FOR CONSTRUCTION Date: 04-19-2024 (5)— (6) **ROOF FRAMING** DETAILS N.T.S. **SD-3**

EXTERIOR BEARING DETAIL

1

HEATHING TYPE	G LOC	CATION	EDGE NAILING	FIELD NAILING	BLOCKED EDGES	BOTTOM PLATE CONNECTION			SHEARWALL CAPACITY		SHEARWALL TYPE
S.P. RD. OR RHING ACE ACE		ACES	-3/8' MINIMUM EDGE DISTANCE. MAY BE STAGGERED WHERE MULTIPLE STUDS OCCUR.	-NAIL @ ALL OTHER SUPPORTS	-VERTICAL AND HORIZONTAL JOINTS	FASTENING TO CONCRETE FASTENING TO WOOD			WIND	SEISMIC	
7/16" (MIN) W 5/8" GYP. WLBR 5/8"GYP. SHEAT	SHEATHE 1 F	OF WALL SHEATHE 2 F OF WALL			(DEPTH OF BLOCK TO MATCH DEPTH OF WALL)	EXTERIOR WALL	INTERIOR WALL	EXTERIOR OR INTERIOR WALL			
•	•		8d @ 2" O.C.	8d @ 12" O.C.	2-2X	5/8"Ø A.B. @ 15" O.C.	5/8"Ø @ 15" O.C.	10d @ 2" O.C. (TWO ROWS)	896 PLF	640 PLF	W2
•	•		8d @ 3" O.C.	8d @ 12" O.C.	2-2X	5/8"Ø A.B. @ 20" O.C.	5/8"Ø @ 20" O.C.	10d @ 3" O.C. (TWO ROWS)	686 PLF	490 PLF	W3
•	•		8d @ 4" O.C.	8d @ 12" O.C.	2X	1/2"Ø A.B. OR MASA ANCHOR @ 24" O.C.	5/8"Ø @ 24" O.C.	10d @ 2" O.C.	532 PLF	380 PLF	W4
•	•		8d @ 6" O.C.	8d @ 12" O.C.	2X	1/2"Ø A.B. OR MASA ANCHOR @ 48" O.C.	5/8"Ø @ 40" O.C.	10d @ 4" O.C.	364 PLF	260 PLF	W6
	•		6d @ 4" O.C.	6d @ 4" O.C.	2X	1/2"Ø A.B. OR MASA ANCHOR @ 48" O.C.	P.A.F. @ 8" O.C.	10d @ 8" O.C.	175 PLF	175 PLF	
•			6d @ 4" O.C.	6d @ 4" O.C.	2X	1/2"Ø A.B. OR MASA ANCHOR @ 24" O.C.	P.A.F. @ 3" O.C.	10d @ 4" O.C.	350 PLF	350 PLF	64
	•		6d @ 7" O.C.	6d @ 7" O.C.	NO	1/2"Ø A.B. OR MASA ANCHOR @ 48" O.C.	P.A.F. @ 16" O.C.	10d @ 12" O.C.	115 PLF	115 PLF	GZ
•			6d @ 7" O.C.	6d @ 7" O.C.	NO NO	1/2"Ø A.B. OR MASA ANCHOR @ 48" O.C.	P.A.F. @ 8" O.C.	10d @ 6" O.C.	230 PLF	230 PLF	

- (K) ALL FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (L) ALL SHEARWALLS SHALL HAVE STUDS AT 16" O.C. (MAX. AND SHALL HAVE A MINIMUM OF 2 STUDS AT EACH END
- U.N.O. BY THE HOLDDOWN DETAILS. (M) W.S.P. INDICATES WOOD STRUCTURAL PANEL - EITHER PLYWOOD OR O.S.B. IS ACCEPTABLE.

(4) –

6"(MAX.)

(8)

(13)

(1 STUD)

SHEARWALL ANCHOR (31)

