ROBERT A HARRIS ARCIHITEC

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SR 441, WEST APOPKA, ORAN **FLORIDA BLOSSOM TRAIL** 

### DRAWING ENERAL 3. DIMENSIONS: DIMENSIONS ON PLANS ARE TO FACE OF INTERIOR STUDS, CENTERLINE OF CONSTRUCTION LINES, AND FACE OF MASONRY. U.N.O. 2. DRAWINGS: THESE DRAWINGS SHOULD NOT BE SCALED, BUT RATHER REFER TO DIMENSIONS INDICATED. 1. EXISTING CONDITIONS: THE EXISTING CONDITIONS ARE SHOWN ON THESE DRAWINGS. ELEVATION REFERENCE (EXTERIOR ELEVATION NUMBER & DRAWING WHERE SHOWN) DETAIL REFERENCE (PLAN DETAIL NOMBER & DRAWING WHERE (SECTION DETAIL LETTER & DRAWING WHERE SHOWN) WALL AND PARTITION PARTITION DETAILS) ELEVATION REFERENCE (INTERIOR ELEVATION LETTER SHOWN) VICINITY APPLICABLE BUILDING CODES FLORIDA BUILDING CODE 2004 - ELECTRICAL CODE 2004 - PLUMBING CODE 2004 - MECHANICAL CODE 2004 NFPA 101 NFPA 409 (F REVIEW BUILDING: MAP SPRINKLERS) 2,458 SQ.FT. HERMIT SMITH RD

# ULATIONS

COVER SHEET

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PLUMBING P1.0 PLUMBING PLAN AND

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MATERIAL PROPERTIES

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REACTIONS # BASE PLATE D

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MEZZANINE DETAILS

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1320 NORTHRIDGE DRIVE LONGWOOD, FLORIDA 32750 (407)592-6107 ND0 COUNTRY AVIATION SERVICES, <u>Z</u>

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DAO CONSULTANTS

IIIO EAST MARKS STREET ORLANDO, FLORIDA 32803 (407)898-6872

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RICHARDSON ENGINEERING

131 ZELMA STREET

ORLANDO, FL 32803-3878

CONTACT: FELIX CROMIE- F

PHONE: 407.425.4002

FAX: 407.841.7932 PROJECT ZANAGER

## META DHAN STEEL BUILDING BUILDINGS, FABRICA

2929 INDUSTRIAL AVE.
FORT MYERS, FLORIDA 33901
CONTACT: JOHN AMMAN
PHONE: 239-334-1051
E-MAIL: deanfmy@deansteelbuildings.co

# SPRINKLER DESIGN

FIRE ANDERSON SPRINKLERS

311 ALTAMONTE COMMERCE BLVD ALTAMONTE SPRINGS, FL 32714 CONTACT: GREG ANDERSON PHONE: 407-788-2110 FAX: 407-862-5731

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y party accepting this document does so in confidence and agrees that i all not be duplicated in whole or in part, nor disclosed to others, without the consent of ROBERT A. HARRIS, ARCHITECT	ROBERT A. HARRIS, ARCHITECT 650 N. WYMORE. RD., SUITE 201, WINTER PARK, FL 32789	NOTICE ne data in this document incorporates proprietary rights of	A
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# **CUSTOM HANGAR BUILDERS**

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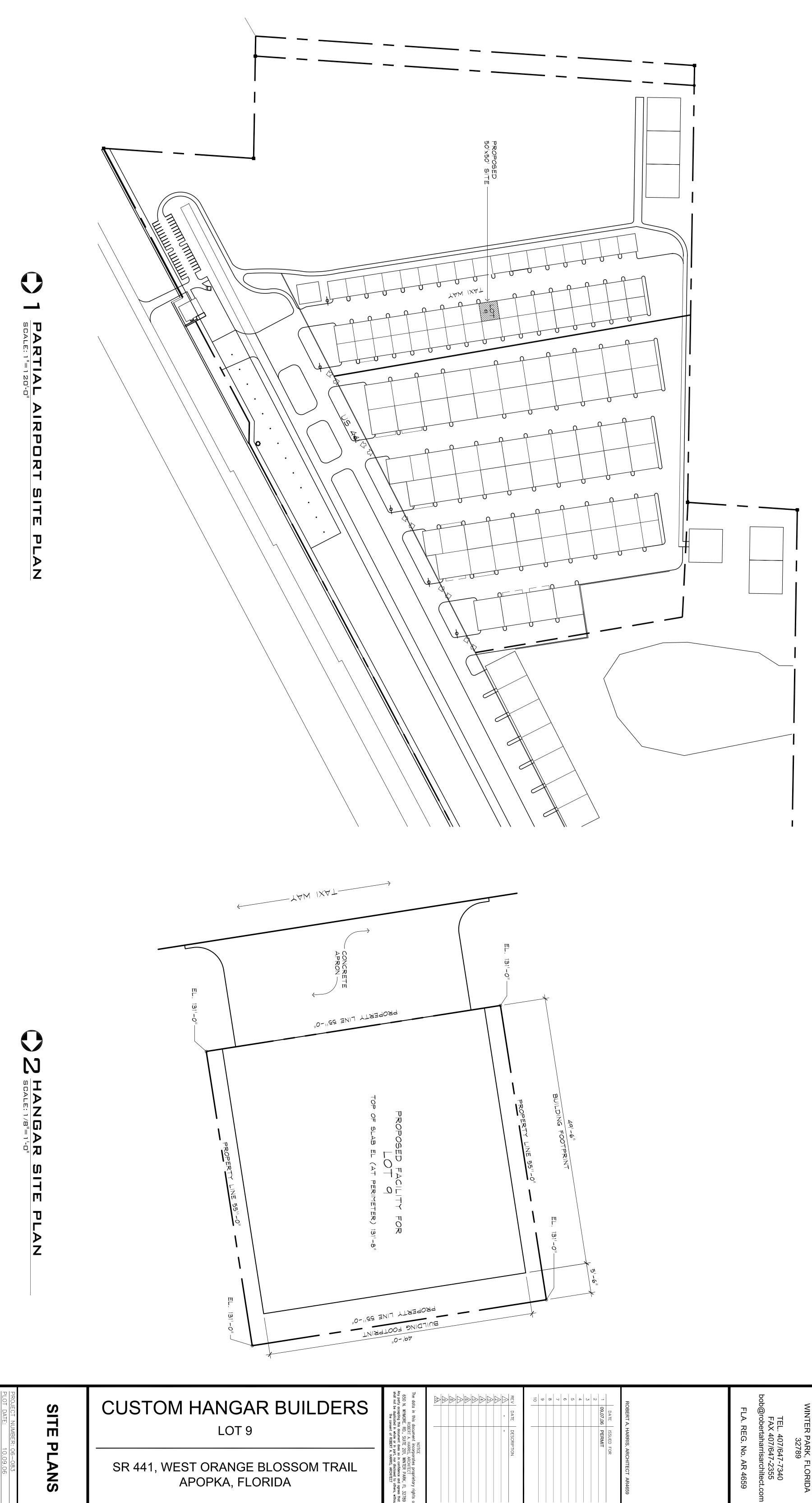


SR 441, WEST ORANGE BLOSSOM TRAIL APOPKA, FLORIDA

LOT 9

COVER

SHEET



APOPKA, FLORIDA

ROBERT ARCHITECT 650 N. WYMORE ROAD SUITE 201 WINTER PARK, FLORIDA 32789

HANGAR DOOR. SEE MANUFACTURER

DRAWINGS FOR DETAILS AND SPECS.

STEEL COLUMN, SEE STEEL DRAWINGS
SHEET 3 FOR LOCATION AND DETAILS

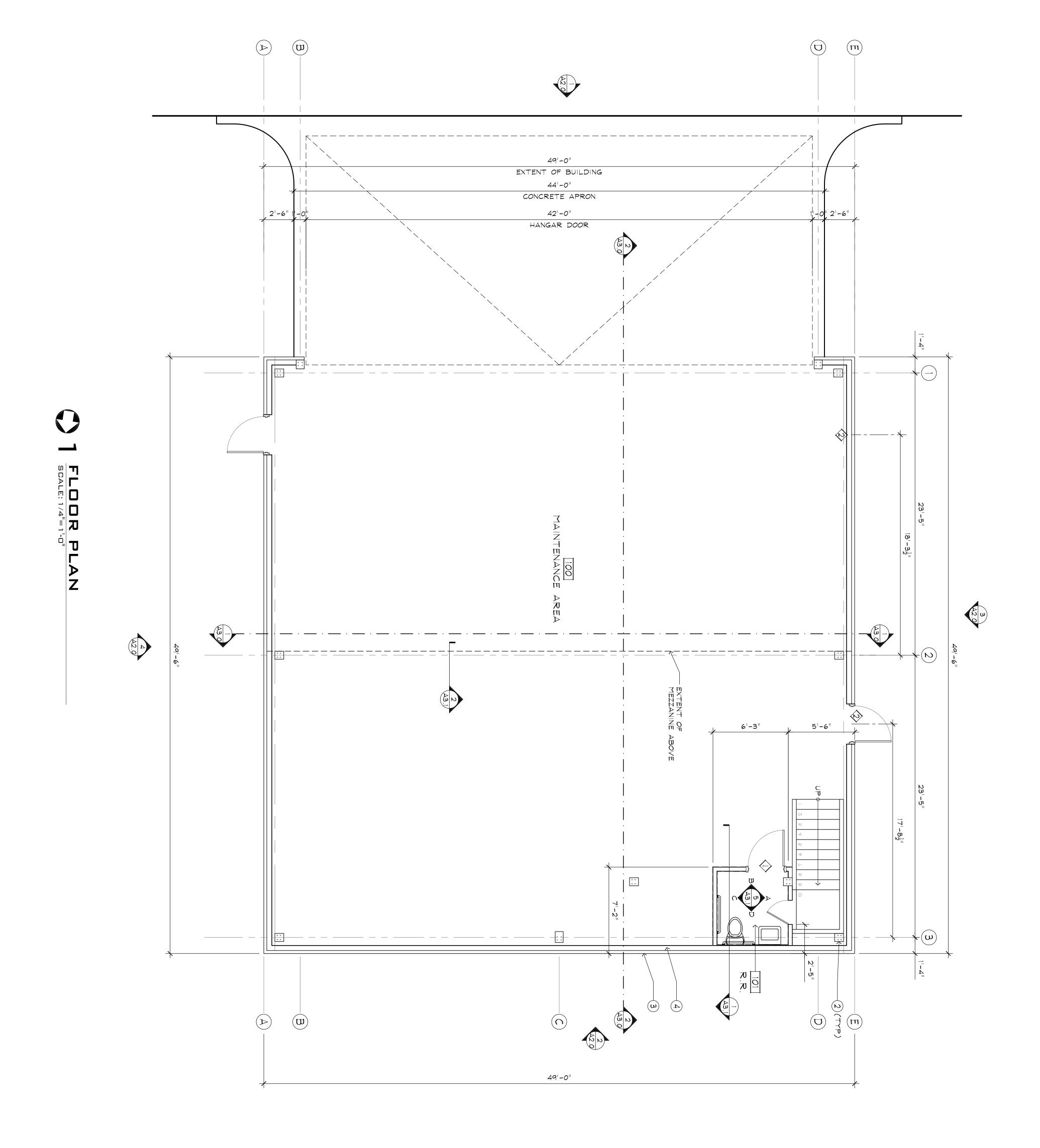
MALL PANELS

CHU BLOCK LOW WALL

SEE STEEL BUILDING DRAWINGS FOR GRID REFERENCES.

ALL INTERIOR FRAMING DIMENSIONS ARE FROM FACE OF STUD U.N.O.

SEE SHEET A3.1 FOR DOOR SCHEDULE WINDOW SCHEDULE AND NOTES



ROBERT A. HARRIS, ARCHITECT ARAGOS

ROBERT A. HARRIS, ARCHITECT ARAGOS

FIRST

FLOOR

LOT 9

LOT 9

SR 4411, WEST ORANGE BLOSSOM TRAIL

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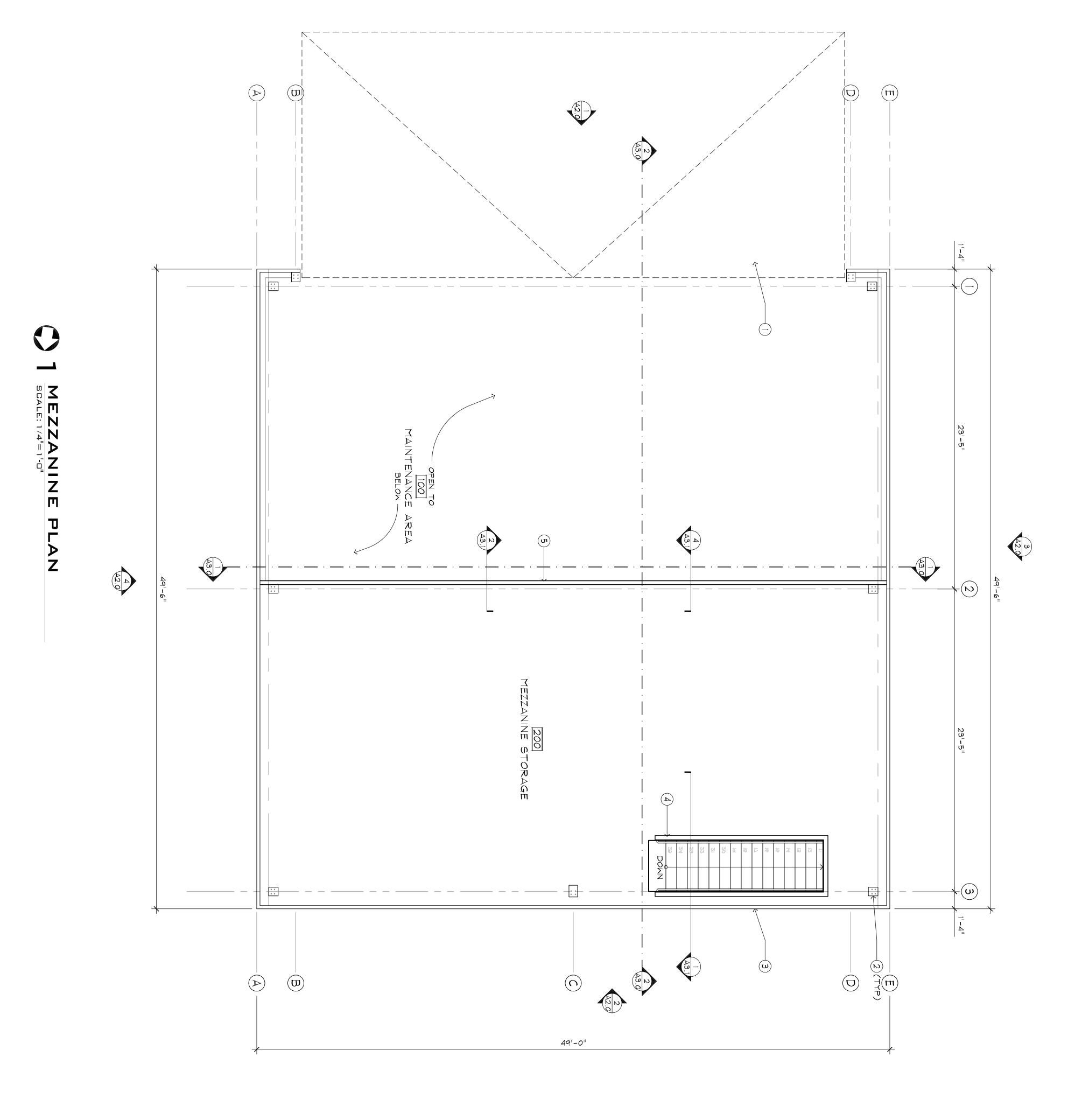
HANGAR DOOR. SEE MANUFACTURER

(1) HANGAR DOOR. SEE MANUFACTURER

(2) STEEL COLUMN. SEE STEEL DRAWINGS
(2) SHEET 3 FOR LOCATION AND SPECS.
(3) METAL SPAN' 3" INSULATED
(4) 42" HIGH RAILING
(5) 42" HIGH MEZZANINE RAIL.
(6) SEE STEEL BUILDING DRAWINGS FOR GRID REFERENCES.

ALL INTERIOR FRAMING DIMENSIONS ARE FROM FACE OF STUD U.N.O.

SEE SHEET A3.1 FOR DOOR SCHEDULE MINDOW SCHEDULE AND NOTES



ROBERT A MARKES ANCHHEET AMARKS

BUILDERS
LOT 9

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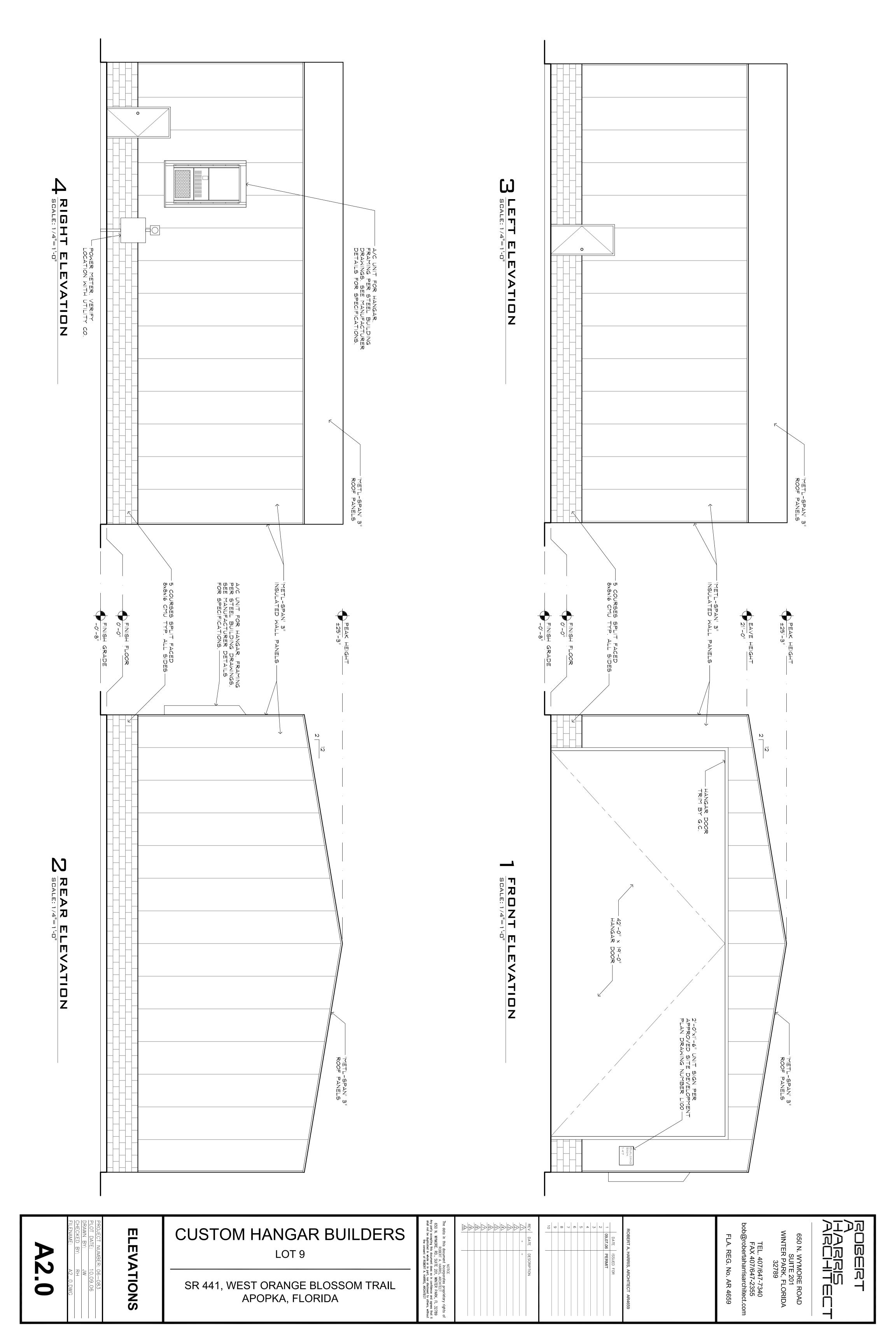
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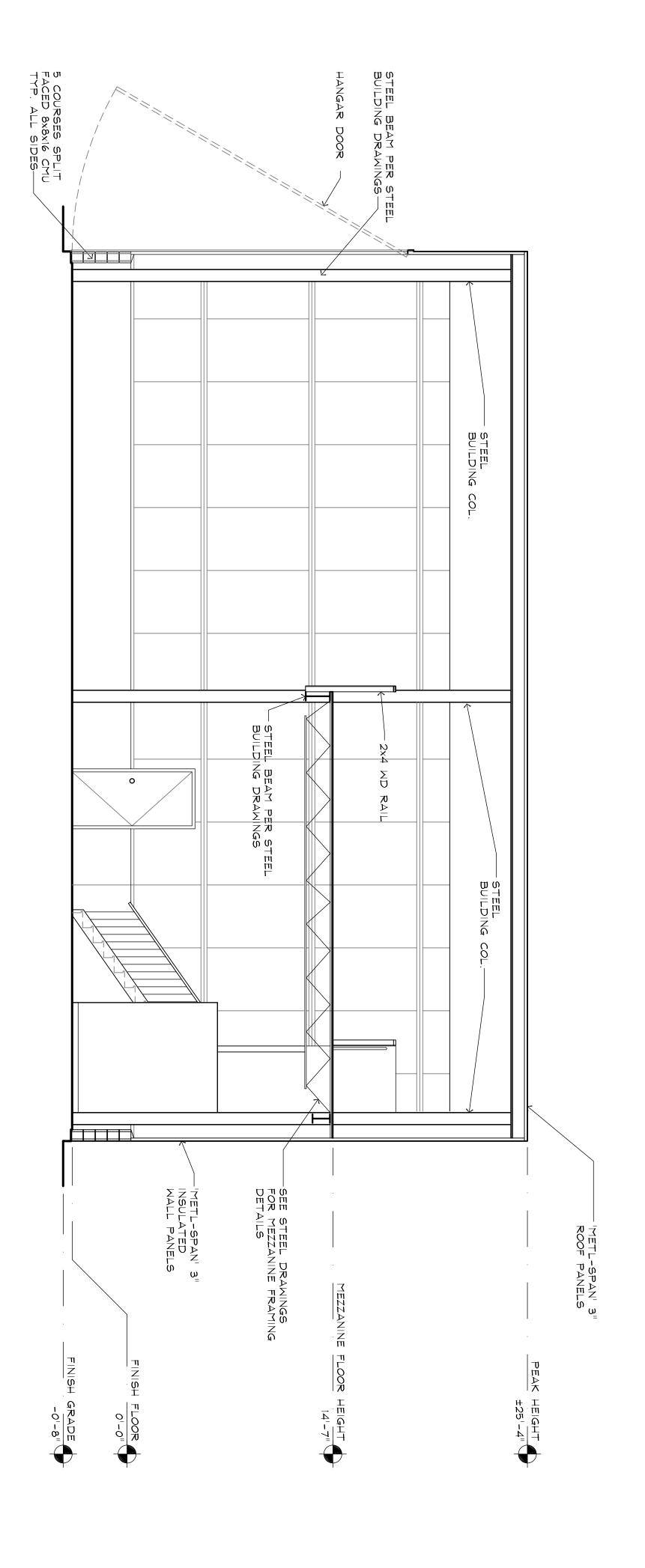
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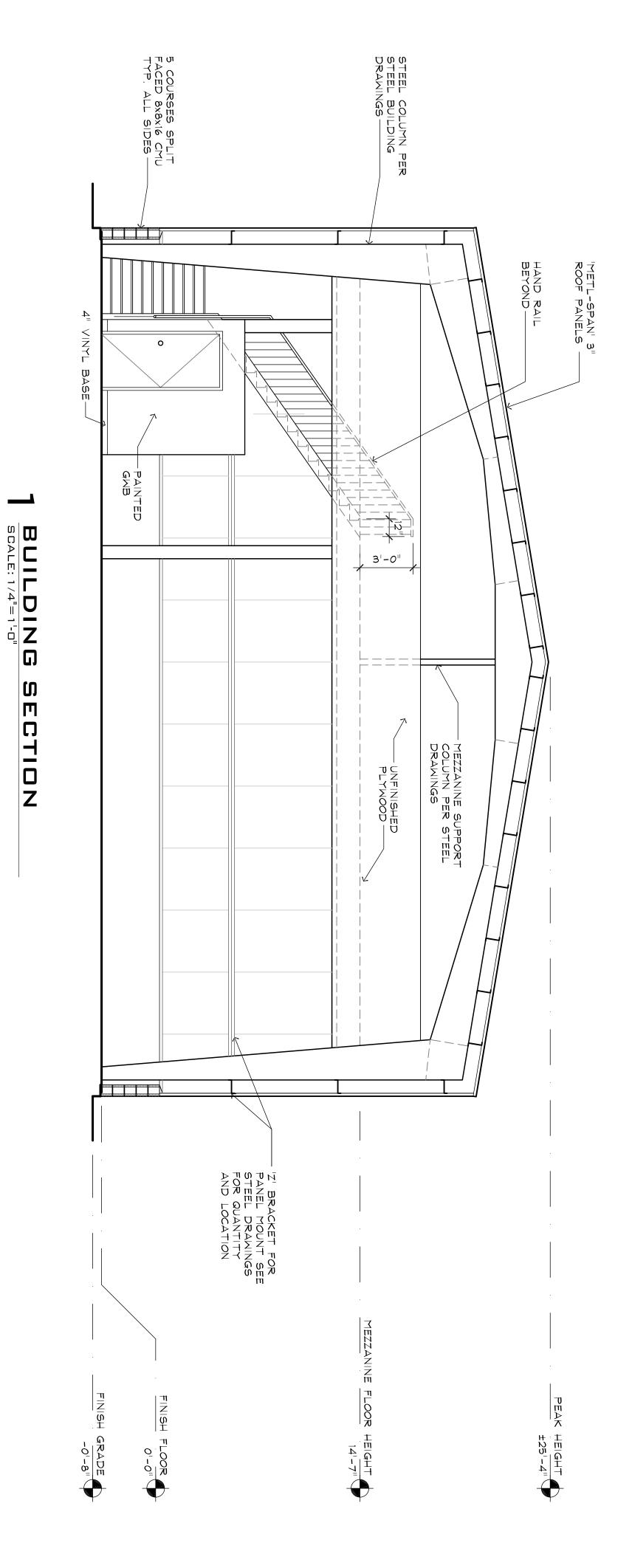
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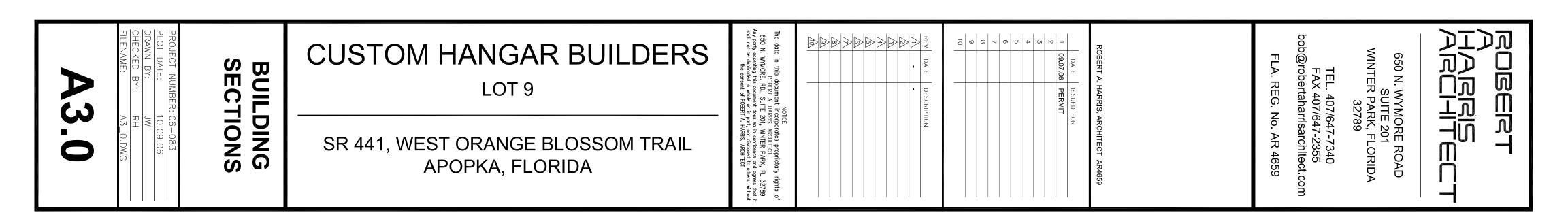
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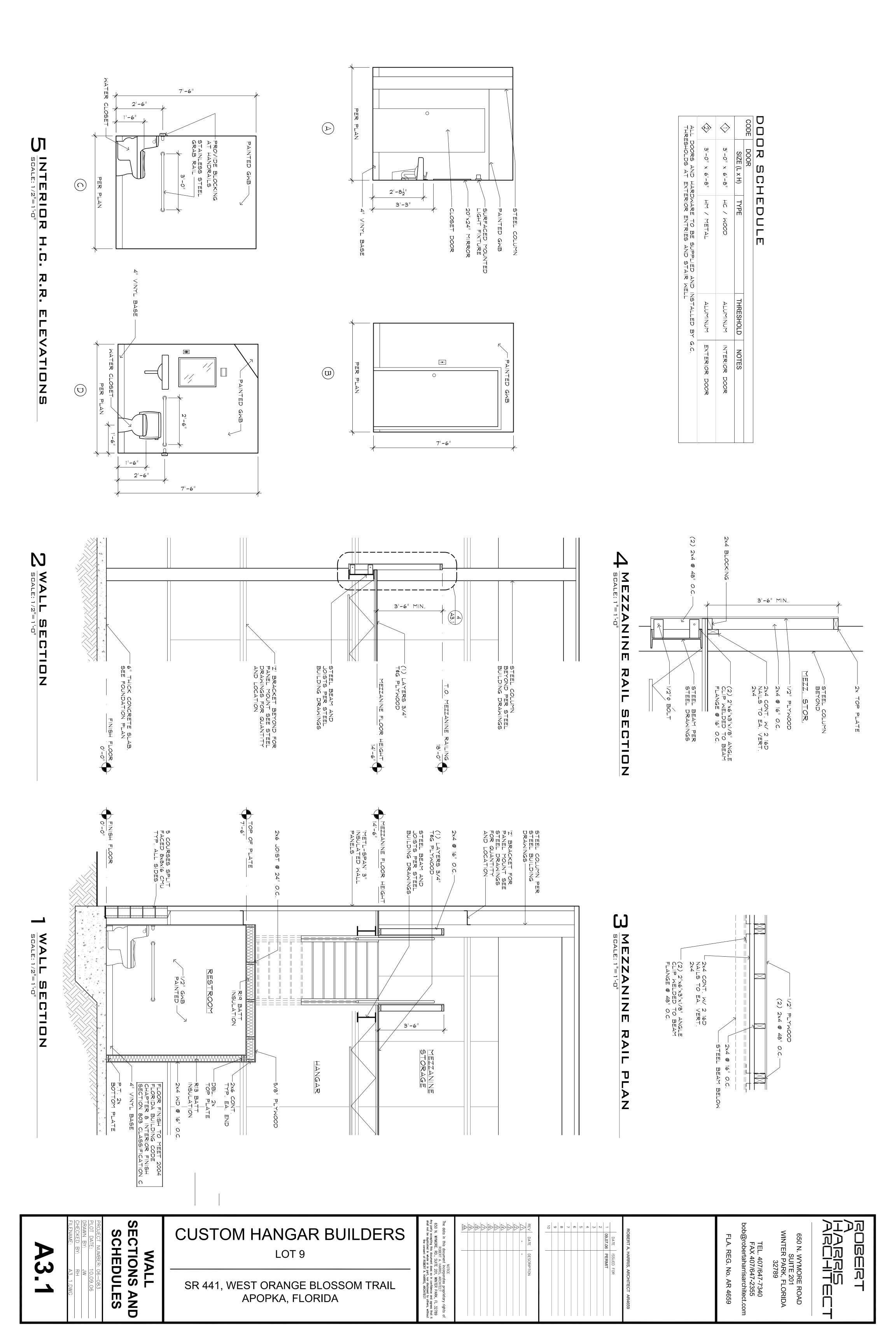
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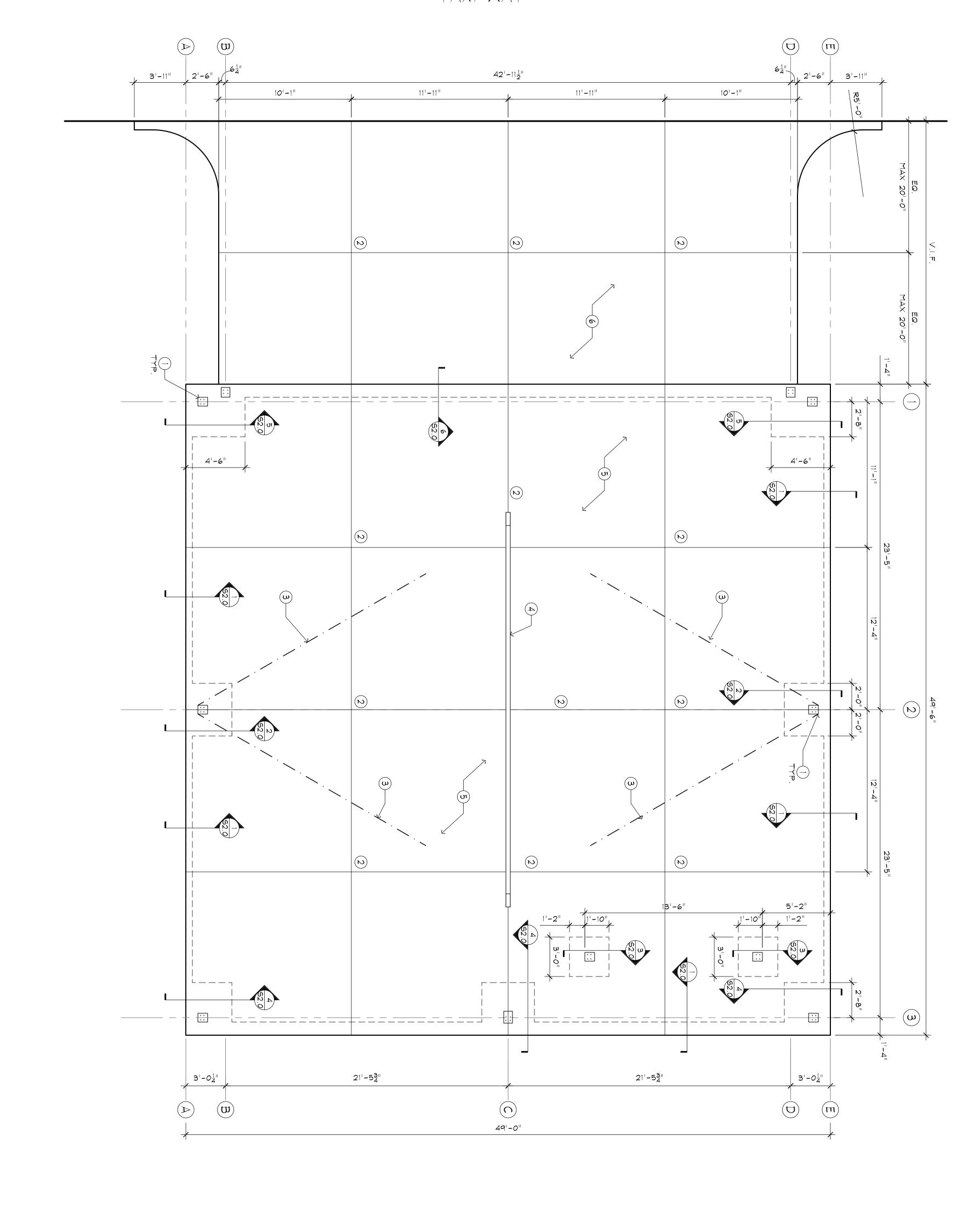












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ORLANDO, FLORIDA 32803
License # 00012380
ID # EB 000083

PLAN

JUECT NUMBER: 06-083

T DATE: 10.09.06

WN BY: JW

CKED BY: RH

NAME: S1\_0.DWG

FOUNDATION

CUSTOM HANGAR BUILDERS

LOT 9

SR 441, WEST ORANGE BLOSSOM TRAIL APOPKA, FLORIDA

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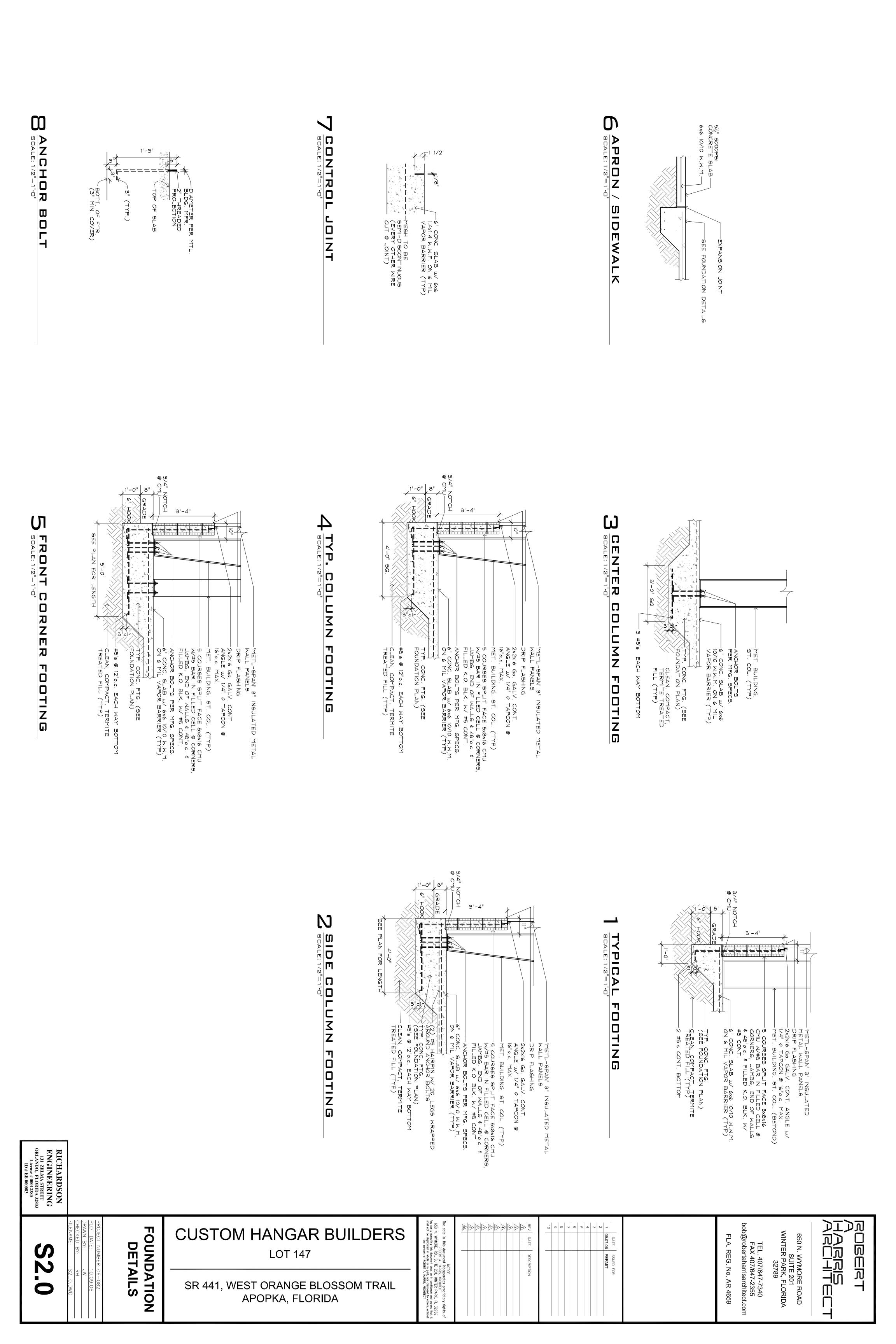
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SEE STEEL
DING DRAWINGS
GRID REFERENCES.

TJ



GENERAL NOTES: REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO ARCHITECT OR STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH WORK. DESIGN WIND FACTOR =1.0, STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN SIZE OR STRENGTH WITHOUT PRIOR APPROVAL IN WRITING FROM THE STRUCTURAL ENGINEER. IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES ALL DAMAGE DURING CONSTRUCTION. 20 PSF

ALL DETAILS AND SECTIONS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT EXCEPT WHERE A SEPARATE DETAIL IS SHOWN. CONTRACTOR SHALL COORDINATE STRUCTURAL AND OTHER DRAWINGS THAT ARE PART OF THE CONTRACT DOCUMENTS FOR ANCHORED, EMBEDDED OR SUPPORTED ITEMS WHICH MAY AFFECT THE STRUCTURAL DRAWINGS.

THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO PROVIDE ALL NECESSARY DETAILS TO CONSTRUCT A COMPLETE STRUCTURE. WHEN SPECIFIC INFORMATION IS MISSING OR IS IN CONFLICT, THE CONTRACTOR SHALL USE A SIMILAR DETAIL AND/OR THE MORE COSTLY ITEM OF CONFLICT. THE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

THE ENGINEER SHALL NOT BE RESPONSIBLE FOR LAYOUT,
DIMENSIONAL ERRORS OR DISCREPANCIES RESULTING FROM THE
REPRODUCTION AND USE OF CONTRACT DRAWINGS FOR ERECTION
AND SHOP DRAWINGS. USE OF CONTRACT DRAWINGS REPRODUCED
IN WHOLE OR ANY PART IN SHOP DRAWINGS SHALL NOT RELIEVE
THE CONTRACTOR NOR SUBCONTRACTOR FROM THEIR
RESPONSIBILITY TO ACCURATELY LAY OUT, COORDINATE, DETAIL,
FABRICATE AND INSTALL A COMPLETE STRUCTURE.

REVIEW ALL SHOP DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND FOR COMPLETENESS AND ANSWER ALL CONTRACTOR RELATED-QUESTIONS. STAMP AND INITIAL ALL SHEETS PRIOR TO SUBMITTING SHOP DRAWINGS TO ARCHITECT FOR REVIEW. NONCOMPLIANCE WITH THIS REQUIREMENT WILL RESULT IN REJECTION OF SUBMITTAL.

FOUNDATIONS,

TO BE STRIPPED, COMPACTED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

NTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS O WALLS UNLESS OTHERWISE SHOWN ON PLANS. MAXIMUM MISPLACEMENT OR ECCENTRICITY: 2". TOLERANCE FOR MISLOCATION OF COLUMN DOWELS OR ANCHOR BOLTS TO PER ACI OR AISC STANDARDS.

WHERE VERTICAL CONSTRUCTION JOINTS OCCUR IN CONTINUOUS FOOTINGS, PROVIDE A MINIMUM CONTINUOUS 2"X4" KEYWAY ACROSS JOINT FOR EACH 12" OF DEPTH. ORIZONTAL JOINTS IN FOOTINGS WILL NOT BE PERMITTED

CONTRACTOR TO NOTIFY ARCHITECT IF SOIL CONDITIONS ARE UNCOVERED THAT PREVENT THE REQUIRED SOIL BEARING PRESSURE FROM BEING OBTAINED.

RDINATE PLUMBING LINES WITH FOOTING LOCATIONS FOR INTERFERENCE. INDIVIDUAL FOOTINGS SHOULD BE LOWERED WITH THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. AVATION UNDER OR NEAR IN-PLACE FOOTINGS/FOUNDATIONS WHICH DISTURBS THE COMPACTED SOIL BENEATH THE FOOTINGS/FOUNDATIONS WILL NOT BE PERMITTED.

REINFORCING SHALL BE SUPPORTED ON PRECAST CONCRETE PADS.

DOWELS FOR COLUMNS AND FILLED CELLS SHALL BE SECURED
PLACE PRIOR TO POURING CONCRETE. USE TEMPLATES FOR
SETTING COLUMN DOWELS AND ANCHOR BOLTS.

REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS TO STABILIZE EXCAVATIONS ADJACENT TO EXISTING CONSTRUCTION

REINFORCED CONCRETE

CONCRETE DESIGN AND PLACEMENT SACCORDANCE WITH THE ACI BUILDING STRUCTURAL CONCRETE, ACI 318-95.

RC-2 STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS AND SHALL DEVELOP THE FOLL COMPRESSIVE STRENGTH AT 28 DAYS 'INGS GRADE BEAMS AND PILE CAPS: 3000 PSI JMNS & WALLS 3000 PSI 15 AND SLABS 3000 PSI

, 70 MEIGHT CONCRET

STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301 AND HAVE THE FOLLOWING SLUMPS & AGGREGATE REQUIREMENTS:

FOOTINGS
COLUMNS
BEAMS AND SLA
FILLED CELLS
TIE BMS # TIE C FLYASH, WHEN USED, CEMENTITIOUS M THE USE OF JITTERBUGS TO CONSOLIDATE CONCRETE WILL BE PERMITTED. COL'S SHALL BE LIMITED ATERIAL. ASTM#57 ASTM#57 ASTM#8 PEAROCK ASTM#8 PEAROCK TO 20 % Q Z O T

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PUMPED CONCRETE WITH #57 AGGREGATE IS TO CONTAIN A HIGH RANGE WATER REDUCING AGENT. MINIMUM SIZE OF DISCHARGE TO BE  $4^{\circ}$  I.D.

" I.D. DISCHARGE I PLASTICIZER ADV BEYOND THAT NO E MAY BE USED WITH #8 AGGREGATE. USE DMIXTURE IF NECESSARY TO INCREASE SLUMPS NOTED ABOVE.

RC-9 ALL REINFORCING STE INSTALLED IN ACCORDANCE MANUAL, ACI-315 1994 EDIT EEL SHALL BE DETAILED, FABRICATED AND E WITH ACI 318-95 AND ACI DETAILING TION.

RC-10 REINFORCING STEEL SHALL BE NEW DEFORMED BARS THAT FREE FROM RUST, SCALE AND OIL AND CONFORM TO ASTM A-615, GRADE 60, WITH MINIMUM YIELD STRENGTH = 60,000 PSI.

RC-12 WELDED WIRE FABRIC RC-11 ALL SLABS ON GRADE SHALL BE REINFORCED WHERE INDICATED WITH 6X6 1.4X1.4 WW IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS. CONFORM TO ASTM-A185

RC-13 LAP CONTINUOUS REINF. AS NOTED IN LAP SPLICE SCHEDULE. LAP CONT. BOTTOM STEEL OVER SUPPORT AND CONT. TOP STEEL AT MIDSPAN UNLESS OTHERWISE SPECIFIED.

REINFORCING: THE FOLLOW ING CONCRETE COVERAGES

FOOTINGS: BO

AND UN

BEAMS & COLUMNS: TIES 1 1/2"

AND BOTTOM 3/4' CL 1 1/2' C CLR CLR CLR

SLABS: (TOP INTERIOR EXTERIOR SLABS ON GRADE: SINGLE

RC-18 SLEEVE ALL PENETRATIONS THROUGH BEAMS AND SLABS INDIVIDUALLY. CORE DRILLING WILL NOT BE PERMITTED. SUBMIT LOCATION AND SIZE OF SLEEVES THROUGH BEAMS TO ENGINEER FOR REVIEW PRIOR TO CASTING CONCRETE.

REVIEW PRIOR TO REBAR F

PLACEMENT SHALL ABRICATION.

BE SUBMITTED FOR

RC-19 NO REINFORCING BARS SHALL BE CUT TO ACCOMMODATE THE INSTALLATION OF ANCHORS, EMBEDS OR OTHER ITEMS.

RC-20 USE THE STRUCTURA ADDENDUMS IN CONJUCTION PLACEMENT OF REINFORCING NITH REVIEWED SHOP DRAWINGS FOR

RC-21 AT CHANGES IN DIRECT STRIP FOOTINGS, PROVIDE C QUANTITY (U.N.O.) AS HORIZ DETAIL. ITION OF CONCRETE WALLS, BEAMS CORNER BARS OF SAME SIZE AND IZONTAL STEEL. REFER TO TYPICAL

BE SECURELY TIED IN PLACE PRIOR

RC-23 WEDGE BOLTS SHALL BE ITW RAMSET/REDHEAD BOLTS OR APPROVED EQUIVALENT INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 3/4" DIAMETER WEDGE BOLTS SHALL BE OF LENGTH REQUIRED TO PROVIDE 3 1/4" MIN. EMBEDMENT, 2.0 KIPS TENSION AND 4.1 KIPS SHEAR WORKING LOADS IN 3000 PSI CONCRETE U.N.O. DO NOT CUT EXISTING REINFORCING TO INSTALL. DO NOT INSTALL IN POST-TENSIONED

RC-25 HEADED STUD ANCHORS SHALL BE ASTM A108, GRADE S, THROUGH 1020 AS MANUFACTURED BY NELSON STUD OR APPROVED EQUIVALENT. STUD WELDING SHALL CONFORM TO AWS D1.1 STRUCTURAL WELDING CODE. RC-24 DOWEL BAR SPLICERS SHALL BE A COMPLETE ASSEMBLY, INCLUDING COUPLER, FORM ATTACHMENT (WHEN REQUIRED) AND THREADED BAR CAPABLE OF DEVELOPING THE BAR BEING SPLICED IN ACCORDANCE WITH ACI 318 SECTION 12.14.3. 010

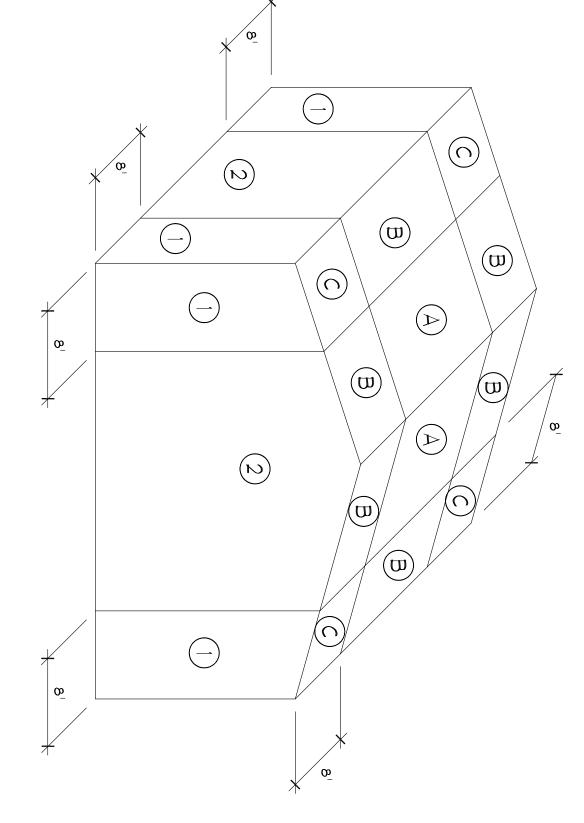
RC-26 GROUTED ANCHORS SHALL BE ITW RAMSET/REDHEAD EPCON CERAMIC 6 EPOXY ANCHORING SYSTEM OR APPROVED EQUIVALENT INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. A SCREEN TUBE MUST BE UTILIZED FOR INSTALLATION IN HOLLOW BLOCK AND BRICK MASONRY. DO NOT CUT EXISTING REINFORCING TO INSTALL.

C-27 PLACE CONCRETE PER ACI 304. () VIBRATION FOR ALL CONCRETE. LIMIT DROP OF CONCRETE TO 6'-0' FOR #57 / #8 AGGREGATE. ALL PRECAUTIONS SHOWING PL. USE INTERNAL MECHANICAL IT MAXIMUM FREE FALL 57 AGGREGATE AND 8'-0' FOR SHOULD BE TAKEN TO AVOID PLACEMENT.

RC-28 FOOTING SIZES SHOWN ARE FOR FOOTINGS CONSTRUCTED WITH SIDE FORMS. IF SOIL MATERIAL CAN HOLD A VERTICAL SHAPE, IT CAN BE USED AS AN EARTH FORM PROVIDED FOOTING WIDTH IS INCREASED 1" IN EACH HORIZONTAL DIRECTION. ALL SLOUGHED MATERIAL SHALL BE REMOVED FROM EXCAVATION BEFORE AND DURING PLACEMENT OF CONCRETE.

CONDUIT AND PIPES SECTION 6.3. Ē CONCRETE

> CLADDING DESIGN



<u></u>	В	A	2	$\bigcirc$	NONE	DESIGN WIND CLADDING (E 10 FT ) * F TR
+ 10.53 PSF	+ 10.53 PSF	+ 10.53 PSF	+ 25.88 PSF	+ 25.88 PSF	POSITIVE PRESSURE	LOAD PRESSURES FOI SASED ON TRIBUTARY RESURES MAY BE RED
-65.36 PSF	-43.43 PSF	-25.88 PSF	-28.1 PSF	-34.65 PSF	NEGATIVE PRESSURE	R COMPONENTS & AREA LESS THAN OCED FOR LARGER 1SCE 7-98

- BUILDING IS DESIGNED AS ENCLOSED STRUCT DOORS & STOREFRONT, DOMES, SKYLIGHTS, BE DESIGNED FOR PRESSURES INDICATED OF SHOP DRAWINGS INCLUDING SEALED CALCUL REGISTERED ENGINEER SHALL BE SUBMITTE APPROVAL PRIOR TO FABRICATION OR ERECT

RICHARDSON ENGINEERING
131 ZELMA STREET

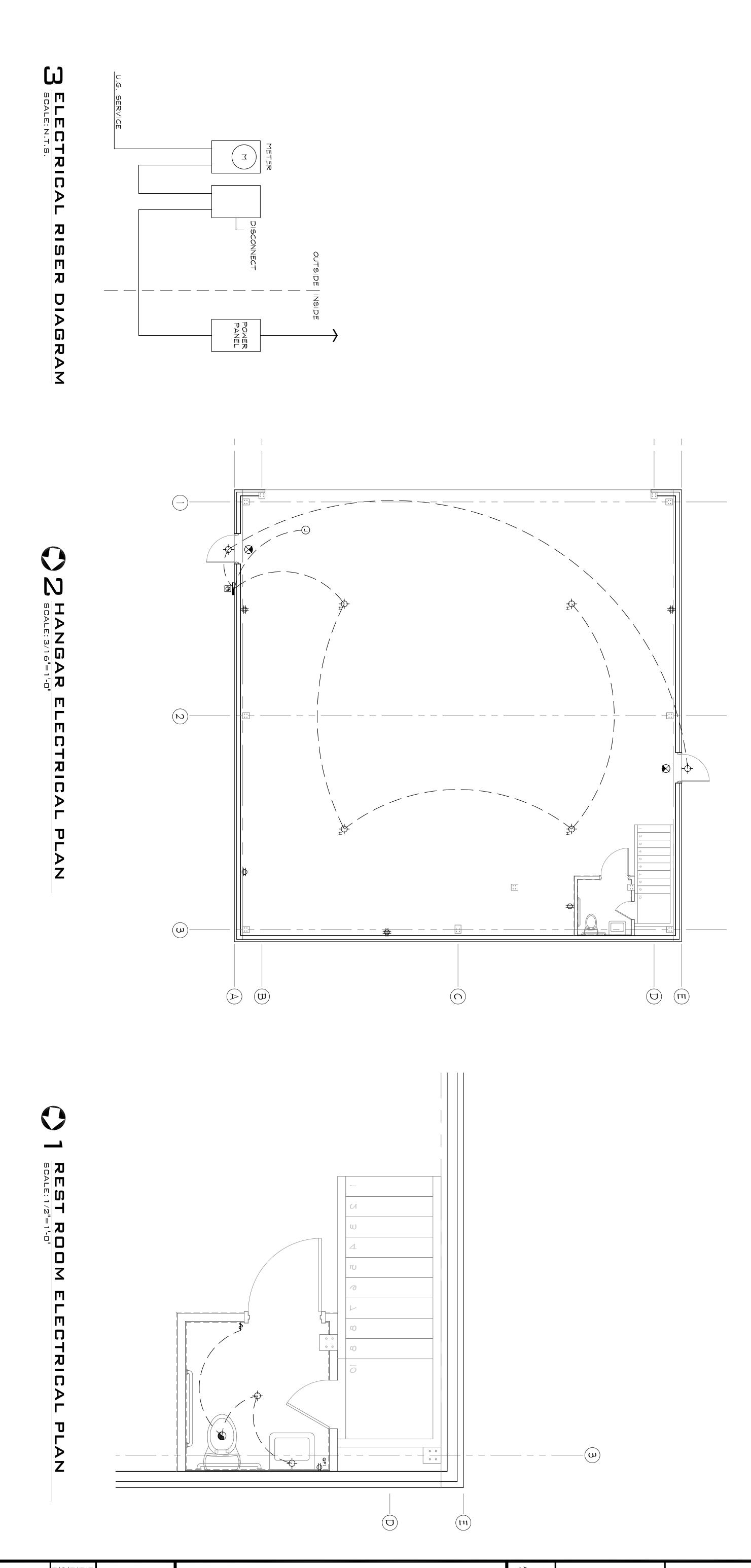
STRUCTURAL NOTES

SR 441, WEST ORANGE BLOSSOM TRAIL

APOPKA, FLORIDA

**CUSTOM HANGAR BUILDERS** 

**LOT 147** 



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ODE	DESCRIPTION	NOTES CODE	DESCRIPTION	NOTES
ф <sub>GFI</sub>	110-120V. DUPLEX RECEPTACLE 'S' INDICATES HALF SWITCH RECEPTACLE	GFI INDICATES GROUND FAULT INTERRUPTED. WEATHER PROOF.	JUNCTION BOX FOR HANGAR Door opener	
#	110-120V. QUADPLEX RECEPTICAL	0	ELECTRIC POWER METER	COORDINATE WITH LOCAL POWER COMPANY
₩ w	WALL MOUNTED LIGHT SWITCH	3' INDICATES 3-MAY SMITCH	ELECTRIC POWER PANEL	CIRCUIT BREAKER
$\Diamond$	SURFACE MOUNTED LIGHT FIXTURE	SIZE AND TYPE VARY, EXTERIOR DANEL &	EXIT LIGHT	
-	CEILING LIGHT FIXTURE	H' INDICATES 400W METAL HALIDE PENDANT (SWITCH AT POWER PANEL)	EXHASUT FAN WITH SCREENED Vent to exterior	
NO	NOTE: QUANTITY AND LOCATION OF ELECTRICAL FIXTURES TO	E E	APPROVED BY OWNER BEFORE ORDERING AND INSTALLATION	

ROBERT A HARBE ARCHITECT ANAGON

ROBERT A HARBE ARCHITECT ANAGON

FLA. REG. No. AR 4659

TEL. 407/647-7340

ELECTRICAL

PLAN AND

SCHEDULES

TO NOTE: DOTE: SOURCE FOR SOURCE PROPERTY ANAGON

FLA. REG. No. AR 4659

SR 4411, WEST ORANGE BLOSSOM TRAIL

SCHEDULES

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