

DESIGN CRITERIA

2017 FL. BLDG. CODE/FIRE PREVENTION/SIXTH ADDITION
 2017 FL. BLDG. CODE/SIXTH ADDITION
 2017 FL. MECHANICAL CODE/SIXTH ADDITION
 2017 NATIONAL ELECTRICAL CODE
 2017 ACCESSIBILITY CODE/SIXTH ADDITION

TYPE OF CONSTRUCTION: EXISTING V-B, SPRINKLED (FBC 602.5)

OCCUPANCY: A-2, ASSEMBLY (SPRINKLED) (FBC 303.3)
 ALLOWABLE HEIGHT: 2 STORIES & 40 FEET. PROPOSED: EXISTING 28'-0". (FBC T504.3 & T504.4)
 ALLOWABLE AREA: 24000 SF/STORY. PROPOSED: EXISTING 1710 SF. (FBC T506.2)

OCCUPANCY LOADS: FBC (T1004.1.2)
 ASSEMBLY (UN-CONCENTRATED) A-2, 1710 SF @ 1/15 NET = 114 PEOPLE.

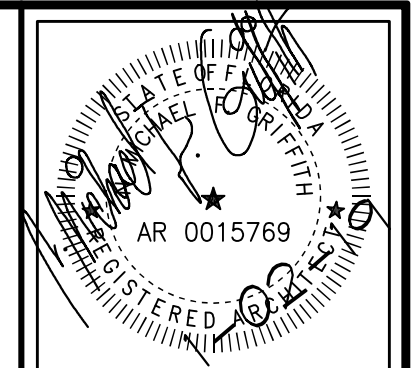
EGRESS WIDTH: (FBC 1005)
 114 PEOPLE X 0.15 = 17.10 REQ'D. EGRESS INCHES. EXISTING: 288 INCHES.
 MAX TRAVEL DISTANCE: 100 FEET.

FIRE RESISTANCE OF BLDG. COMPONENTS: (FBC T601)
 PRIMARY STRUCTURAL FRAME - 0 HRS.
 BEARING WALLS (INTERIOR & EXTERIOR) - 0 HRS.
 ROOF CONSTRUCTION & SECONDARY MEMBERS - 0 HRS.
 AREA SEPARATION WALLS (FBC T506.3.3) - 0 HRS.

ULTIMATE DESIGN WIND SPEED = 139 MPH
 EXPOSURE CATEGORY: C
 ENCLOSED STRUCTURE
 OPENING DESIGN PRESSURE = +/- 40 PSF

PROJECT SHALL COMPLY WITH ALL NATIONAL, STATE & LOCAL CODES AND ORDINANCES.

DINING EXPANSION FOR: SUN 'N LAKE CLUBHOUSE 5223 SUN 'N LAKE BLVD. SEBRING, HIGHLANDS COUNTY, FL



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REVISIONS

MICHAEL GRIFFITH
 Architect
 6646 Strand Oaks Drive
 Sebring, FL 33870
 843-915-4282

COVER SHEET
 DINING EXPANSION FOR:
SUN 'N LAKE CLUBHOUSE
 5223 SUN 'N LAKE BLVD
 SEBRING, HIGHLAND COUNTY, FL
 DATE: 1-02-19 SCALE: AS NOTED DRAWN BY: DB CHECK'D BY: MG PROJECT NO: 1837

ARCHITECTURAL
CS

ABBREVIATIONS

AB	ANCHOR BOLT	FD	FLOOR DRAIN	RCP	REFLECTED CEILING PLAN
ATC.	ACOUSTICAL TILE CEILING	F.F.	FINISHED FLOOR	RE.	REFERENCE
ADD'L.	ADDITIONAL	FE	FIRE EXTINGUISHER	REC'PT.	RECEPTION
AFF	ABOVE FINISHED FLOOR	FEC	FIRE EXTINGUISHER CABINET	REINF.	REINFORCING
ALUM./AL	ALUMINUM	FIN.	FINISH	RESIL.	RESILIENT
ANOD.	ANODIZED	FLR.	FLOOR	RET.	RETAINING
@	AT	FLASH'G.	FLASHING	REQ'D.	REQUIRED
BLK'G.	BLOCKING	FR./FRM.	FRAME	SCHED.	SCHEDULE
BM	BEAM	FRT.	FIRE RETARDANT TREATMENT	SC WD	SOLID CORE WOOD
BRG.	BEARING	FTG.	FOOTING	SECT.	SECTION
BLK	BLACK . BLOCK	FURN.	FURNITURE	SEC'Y.	SECRETARY
BLDG.	BUILDING	FURR'G.	FURRING	SHTV.	SHEET VINYL
CAB.	CABINET	GA.	GAUGE	STL.	STEEL
CL	CENTER LINE	GEN.	GENERAL	STN.	STAIN
CG	CORNER GUARD	GC	GENERAL CONTRACTOR	STO./STOR.	STORAGE
CJ	CONTROL JOINT	G.I.	GALVANIZE IRON	STRUCT	STRUCTURAL
CLG.	CEILING	GL.	GLASS	SUSP.	SUSPENDED
CLOS./CLO.	CLOSET	GYP. B'D.	GYP. BOARD	TELE.	TELEPHONE
CMU	CONCRETE MASONRY UNIT	H.M.	HOLLOW METAL	TEMP.	TEMPERED
COL.	COLUMN	HR.	HOUR	T.G.	TOP OF GRATE
CONC.	CONCRETE	INSUL.	INSULATION	TLWC	TOP OF LIGHTWEIGHT CONCRETE
CONF.	CONFERENCE	INT.	INTERIOR	T.V.	TELEVISION
CONST.	CONSTRUCTION	JAN.	JANITOR	T.W.	TOP OF WALL
COR.	CORRIDOR	JT	JOINT	TYP.	TYPICAL
CONT.	CONTINUOUS	MAX.	MAXIMUM	U.L.	UNDERWRITERS LABORATORIES
CPT.	CARPET	MECH.	MECHANICAL	U.N.O.	UNLESS NOTED OTHERWISE
CT	CERAMIC TILE	MIN.	MINIMUM	VB	VINYL BASE
DIM'S.	DIMENSIONS	MNT.	MOUNT	VERT.	VERTICAL
DIA / Ø	DIAMETER	MTL.	METAL	VEST.	VESTIBULE
DIM	DIMENSION	MFR.	MANUFACTURER	VCT	VINYL COMPOSITION TILE
DN	DOWN	NO.	NUMBER	VWC	VINYL WALL COVERING
DWG'S.	DRAWINGS	O.C.	ON CENTER	W/	W/TH
EA.	EACH	PNT.	PAINT	WD.	WOOD
ELEC.	ELECTRIC	P.C.	PORTLAND CEMENT		
ELEV.	ELEVATION	PLAS. LAM.	PLASTIC LAMINANT		
EQ.	EQUAL	PLYW'D.	PLYWOOD		
EQUIP.	EQUIPMENT	PMEJ.	PREMOLDED EXPANSION JOINT		
EXIST.	EXISTING	P.P.T.	PRESERVATIVE PRESSURE TREATED		
EXP. / EJ	EXPANSION / JOINT	PTD.	PAINTED		
EXT.	EXTERIOR				

OWNER MANAGER:

TANYA E. CANNADY, CPA, CDM
 GENERAL MANAGER
 SUN 'N LAKE IMPROVEMENT DISTRICT
 5306 SUN 'N LAKE BLVD
 SEBRING, FL 33872
 863-382-2169 EXT 303
 tcannady@enldistrict.org

ON SITE MANAGER:

CLIFF EASUM
 GENERAL MANAGER
 SUN 'N LAKE GOLF CLUB
 35468 TEE TIME CIRCLE
 SEBRING, FL 33872
 863-382-4830
 ceasum@sunlakegolfclub.com

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 SEBRING, FL 33870
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 richardsiver@hotmail.com

MECHANICAL

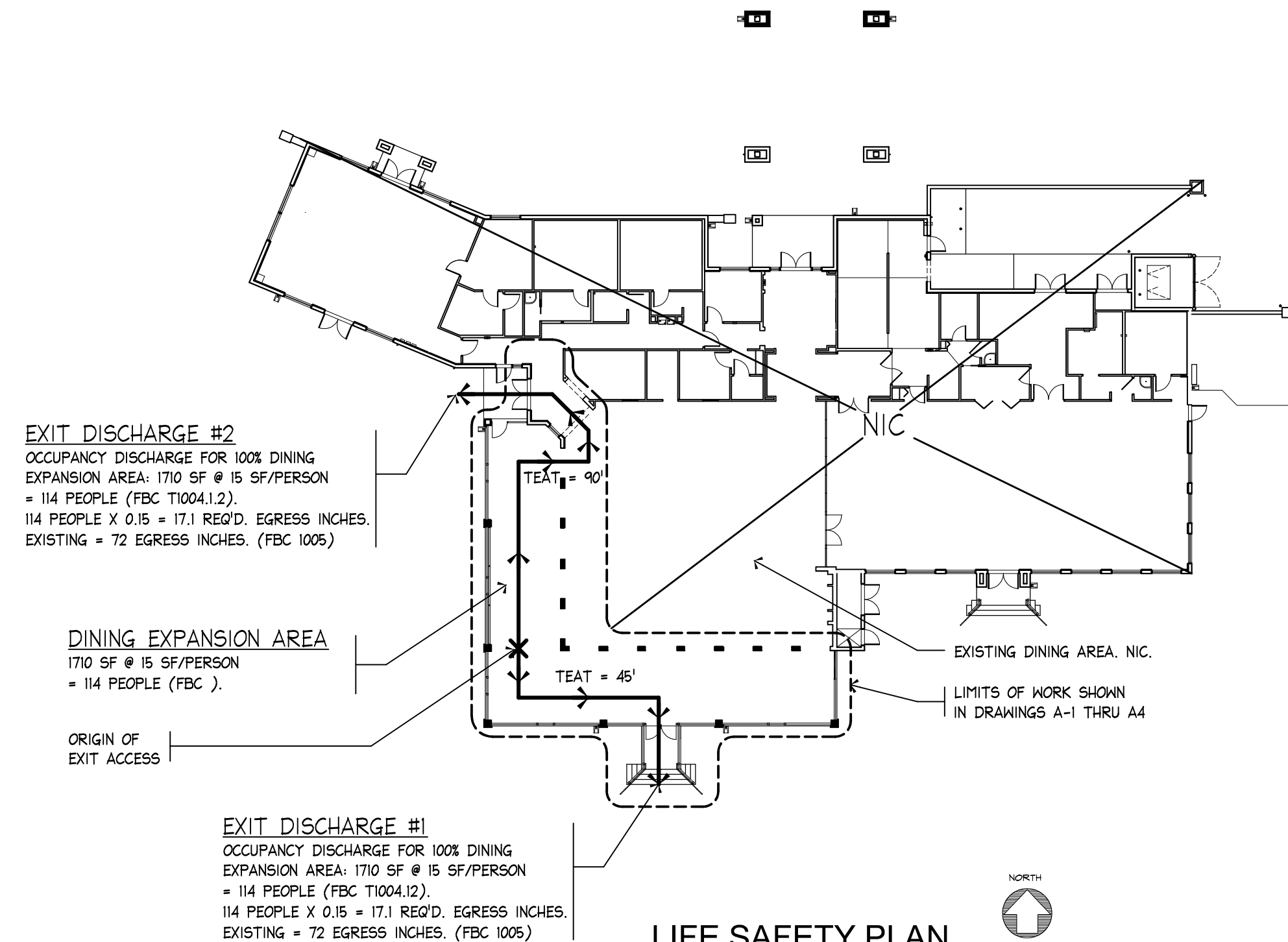
MILLER'S CENTRAL AIR, INC.
 20 W INTERLAKE BLVD
 LAKE PLACID FL, 33852
 863-441-1462
 MICHAEL SULLIVAN

ELECTRICAL:

MARK PALMER ELECTRIC & AIR CONDITIONING
 5232 US HWY 27 N
 SEBRING, FL 33870
 863-453-4444
 JOHN PAYNE

GENERAL CONTRACTOR:

TBD



LEGEND:

OFFICE ← SPACE NAME
 100 SF DIVIDED BY 100 ← SPACE SQUARE FOOTAGE
 DIVIDED BY MAX. AREA
 ALLOWED PER PERSON.
 2 PEOPLE (FBC T1004.1.2)
 CODE REFERENCE
 OCCUPANCY LOAD ALLOWED PER
 CODE FOR THIS
 SPECIFIC SPACE

TEAT = TOTAL EXIT ACCESS TRAVEL

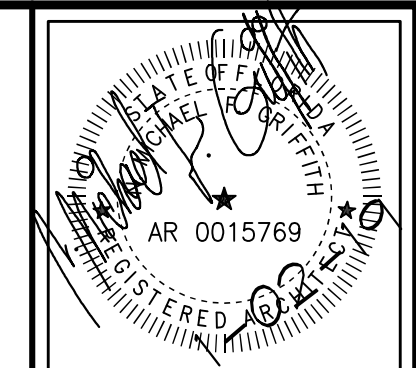
LEGEND

	SECTION NUMBER		CONCRETE MASONRY UNIT		FINISH BOARD
	SECTION CUT		CONCRETE		ROUGH SAWN BOARD
	DETAIL LETTER		EARTH		WOOD FRAMED PARTITION
	INTERIOR ELEVATION LETTER		RIGID INSULATION		DRYWALL
	FILL INDICATES ELEVATION IS RENDERED		FIBERGLASS INSULATION		HINGE SIDE DOOR/WINDOWS OPENING SIDE
			1 HOUR FIRE RATED PARTITION		WOOD BLOCKING

INDEX OF DRAWINGS

CS	COVER SHEET
A1	EXISTING & DEMOLITION PLANS
A2	NEW CONSTRUCTION PLAN - REFLECTED CEILING PLAN
A3	DEMO & NEW CONSTRUCTION INTERIOR ELEVATIONS
A4	MISC. DETAILS - SCHEDULES

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE



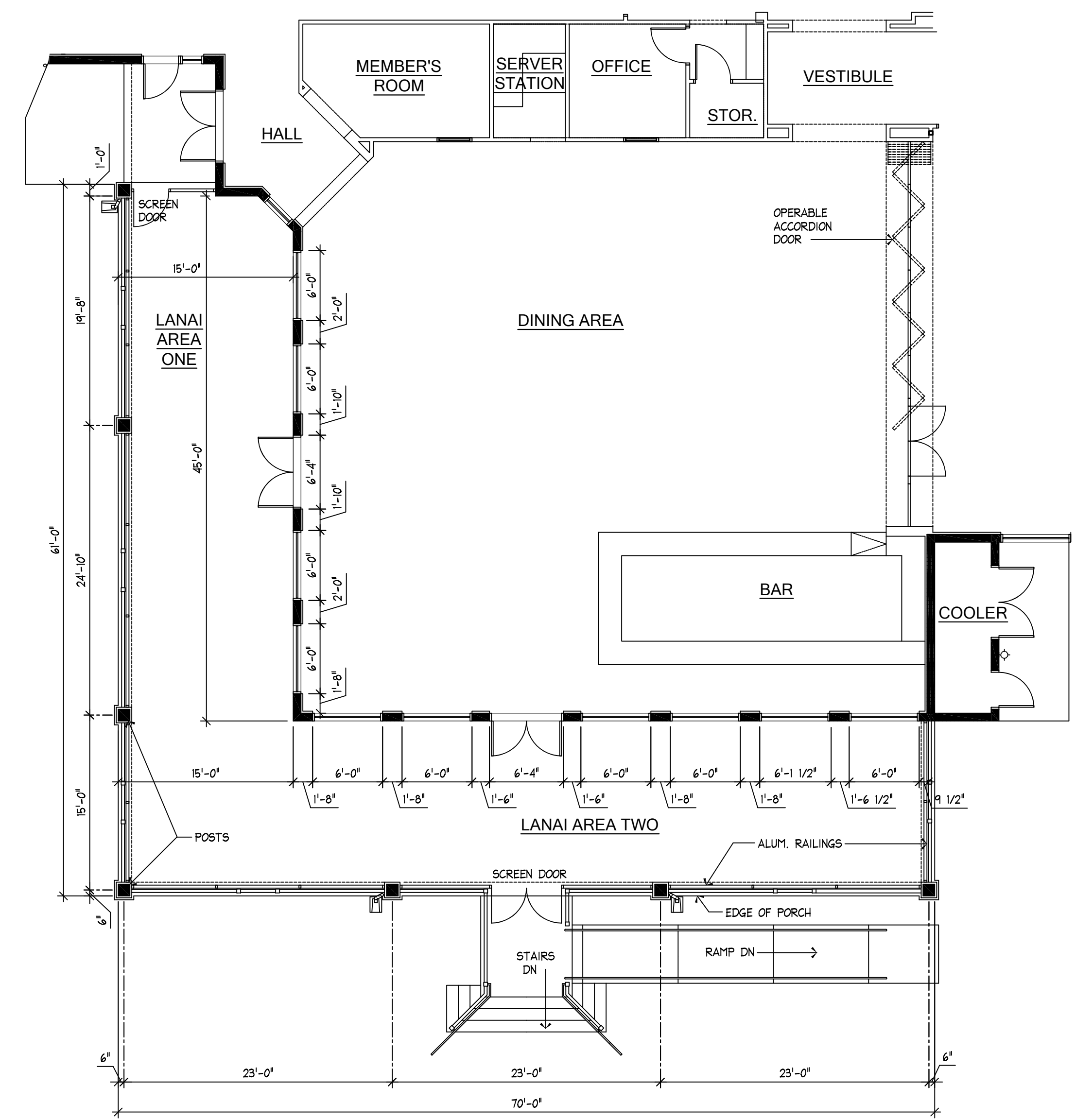
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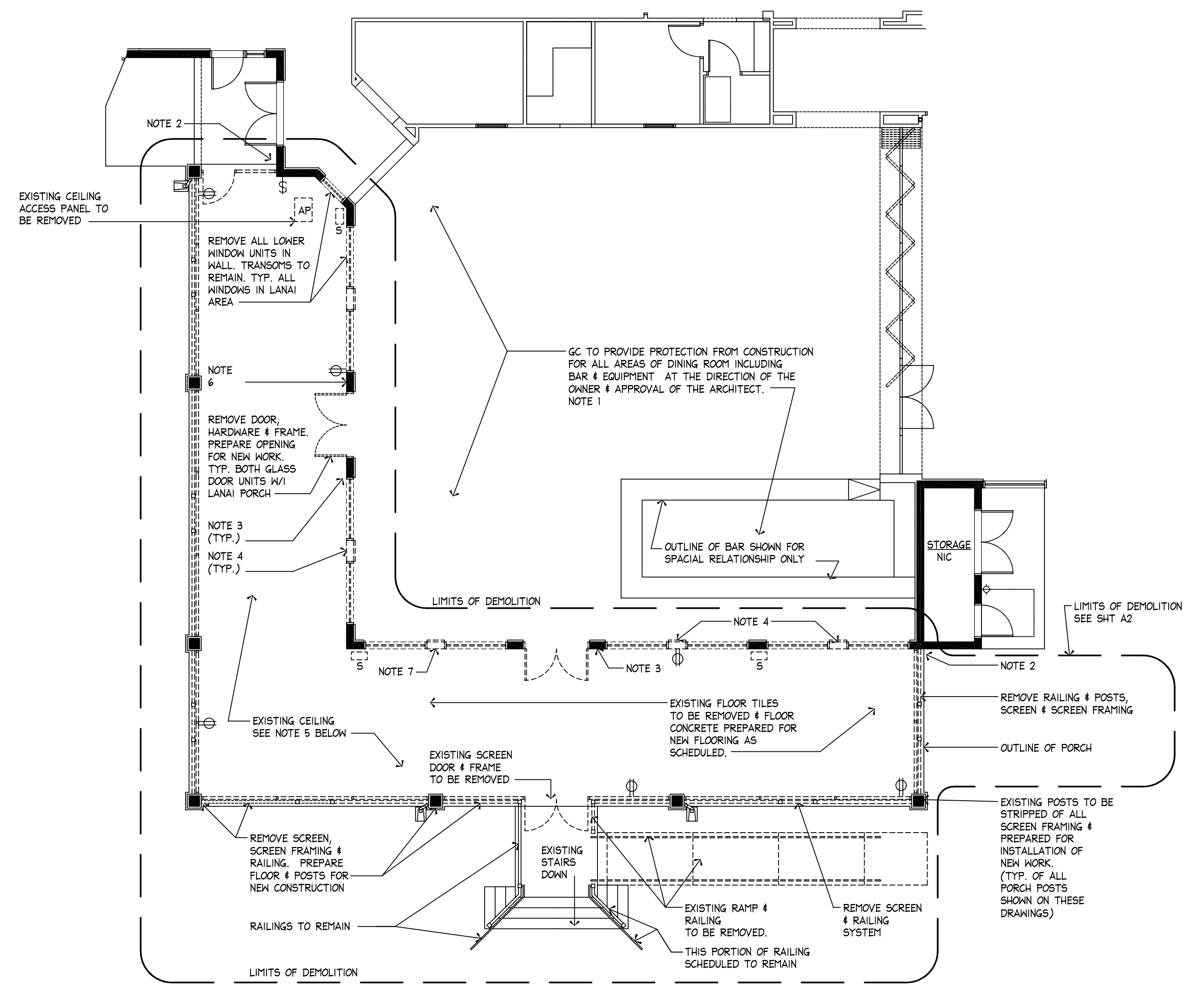
EXISTING & DEMOLITION PLANS
DINING EXPANSION FOR:
SUN 'N LAKE CLUBHOUSE
5225 SUN 'N LAKE BLVD.
SEBRING, HIGHLAND COUNTY, FL
DATE: 1-02-19 SCALE: AS NOTED
DRAWN BY: DB
CHECK'D BY: MG
PROJECT NO: 1837

ARCHITECTURAL
1



EXISTING FLOOR PLAN
1/8" = 1'-0" (NOTE 1)

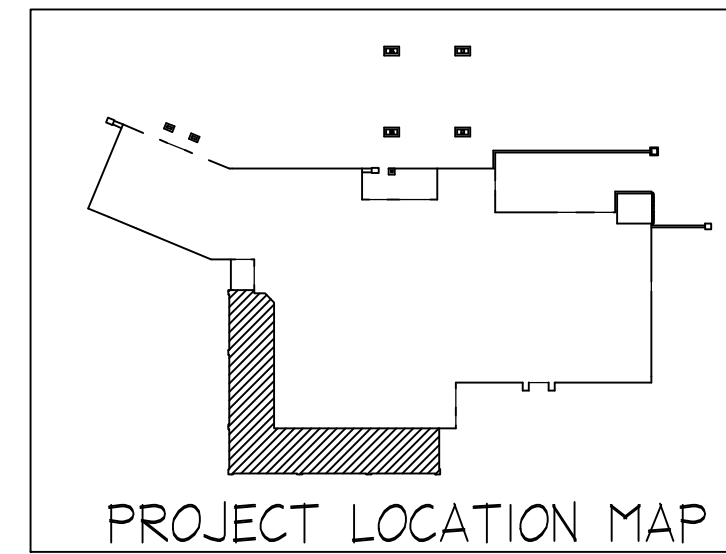
EXISTING FLOOR PLAN GENERAL NOTES:
1. DIMENSIONS ARE SHOWN FOR CLARITY OF OVERALL SIZES OF SCOPE OF WORK, NOT FOR NEW CONSTRUCTION.



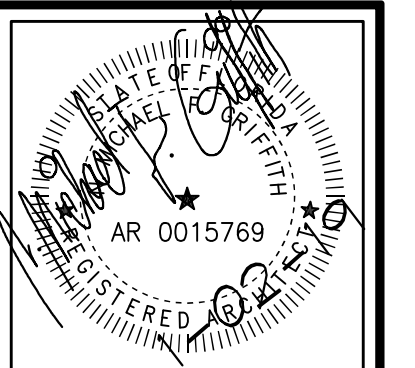
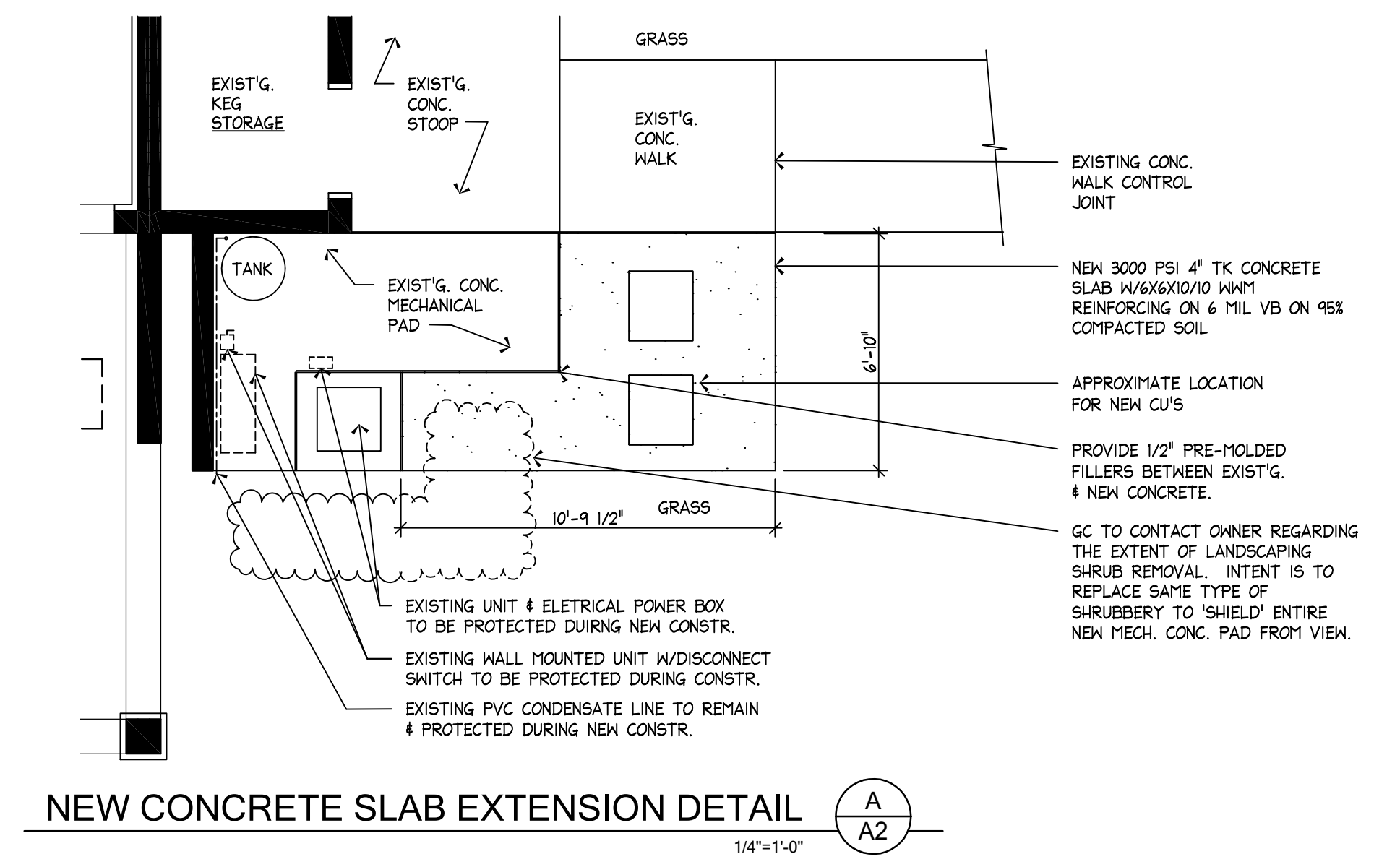
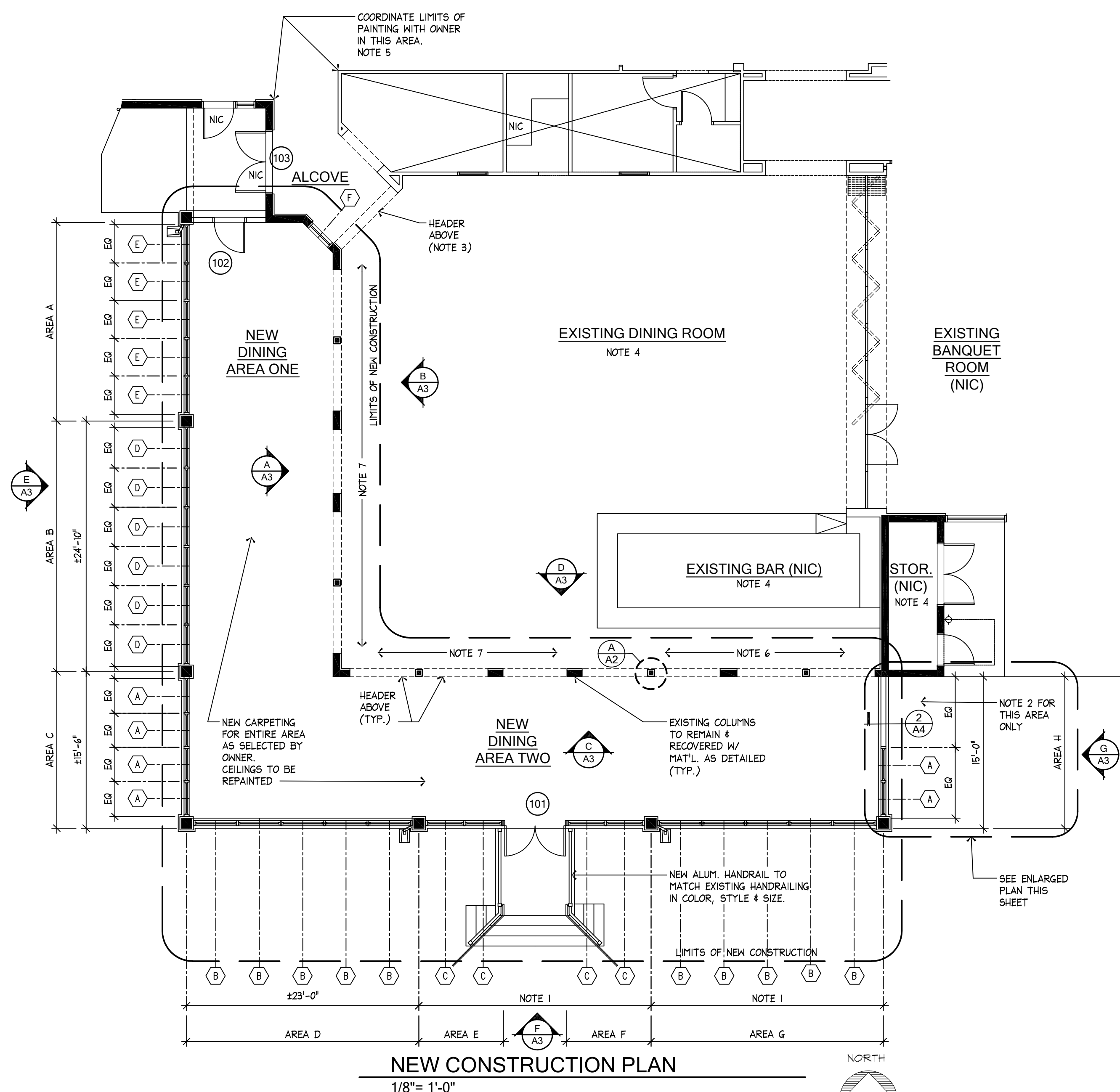
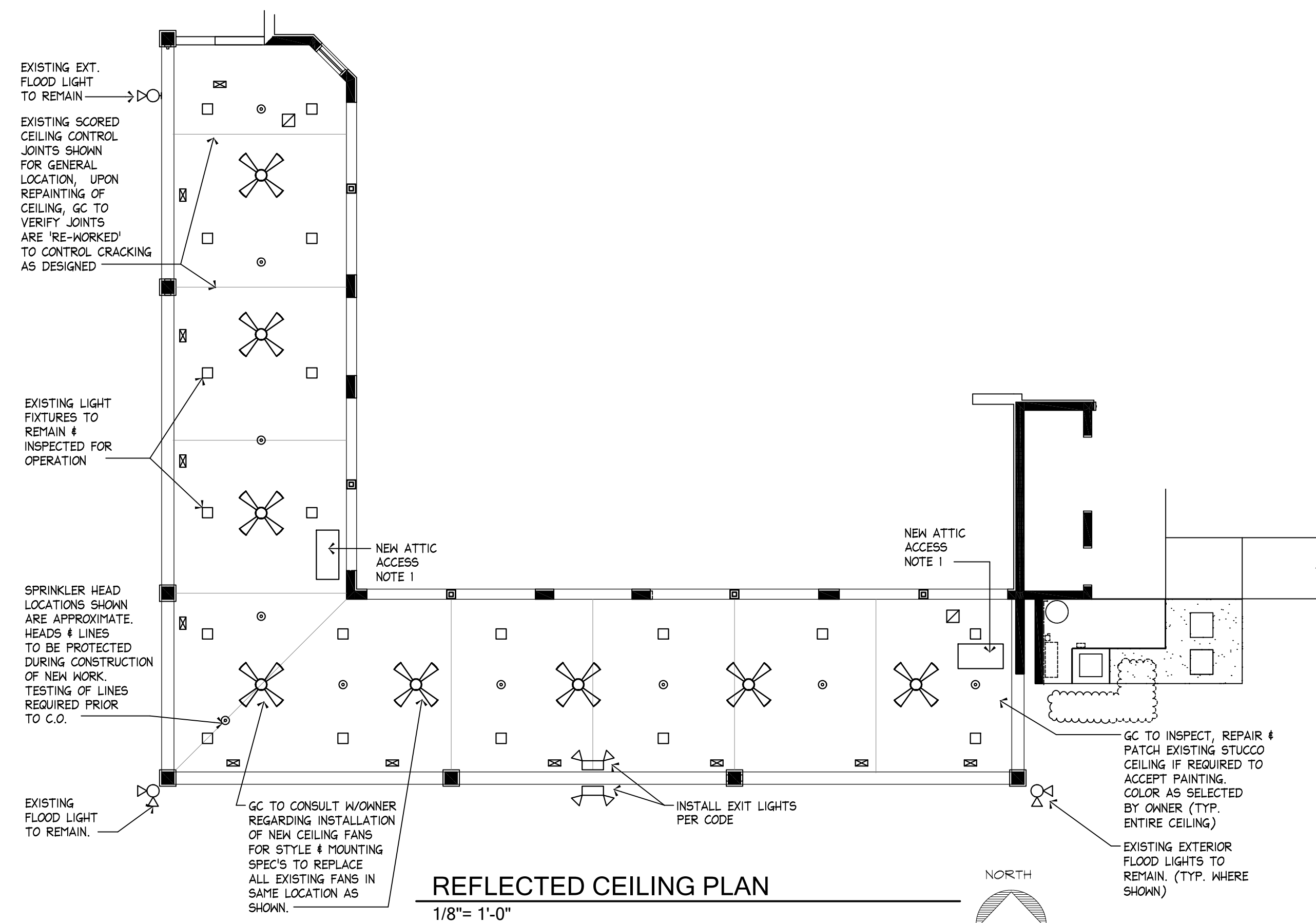
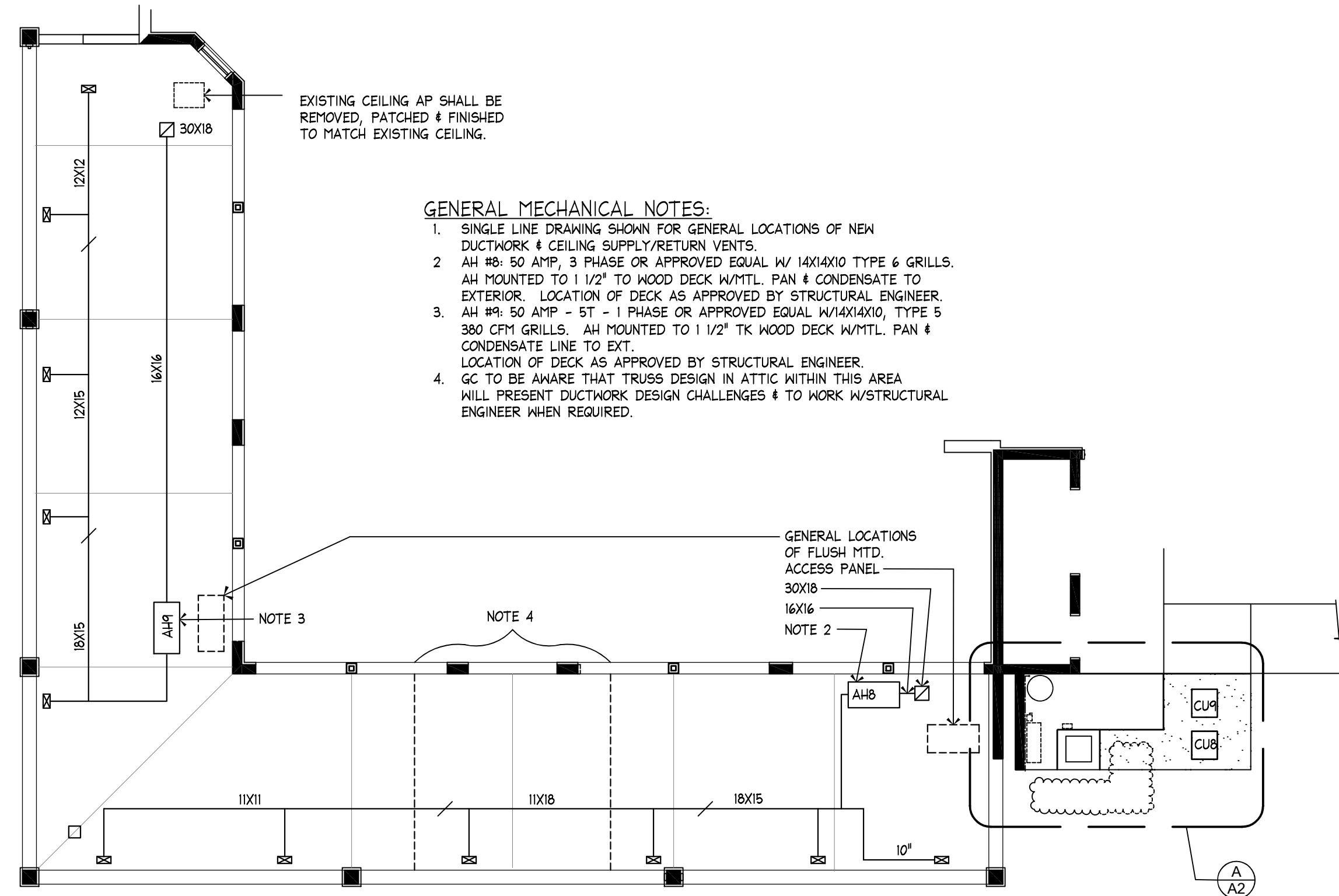
DEMOLITION PLAN
1/8" = 1'-0"

- DEMOLITION GENERAL NOTES:**
- GC, PRIOR TO ROOM PROTECTION INSTALLATION, SHALL COORDINATE METHODS OF PROTECTION FOR OWNER'S REVIEW UNDERSTANDING, COMMENTS & APPROVAL.
 - AREAS WHERE LIMITS OF NEW CONSTRUCTION ADJUT EXISTING WORK, THE GC, OWNER & ARCHITECT SHALL DISCUSS EXISTING CONSTRUCTION PROTECTION & FINAL FINISHED DETAILS.
 - VERTICAL WALLS SCHEDULED TO REMAIN SHALL BE PATCHED & REPAIRED AFTER DEMOLITION PHASE COMPLETED. AREAS TO ACCEPT FINISHES AS SCHEDULED, DETAILED OR PAINTING.
 - WHERE VERTICAL WALLS ARE SCHEDULED TO BE REMOVED, GC TO PREPARE BOTH THE FLOOR & THE BOTTOM OF THE EXISTING HEADER BEAM ABOVE FOR NEW STEEL PIPE COLUMNS AS DETAILED ON STRUCTURAL DETAIL 3/A4.
 - CEILING: REMOVE ALL CEILING FANS, SPRINKLER HEADS, RECESSED LIGHT FIXTURES AND ELECTRICAL CONVENIENCE OUTLETS TO ALSO REMAIN AND PROTECTED.
 - FIRE ALARM PULL STATION TO REMAIN & PROTECTED DURING NEW WORK.
 - EXISTING HOSE BIB & HOSE BIB BOX TO REMAIN & REINSTALLED INTO NEW WORK.

- LEGEND**
- S SPEAKER - TO BE REMOVED DURING CONSTRUCTION & REINSTALLED AFTER COMPLETION OF WORK.
 - AP ACCESS PANEL - TO BE REMOVED
 - ⊕ EXISTING HIGH MOUNTED ELECTRICAL CONVENIENCE OUTLET TO REMAIN
 - ⊖ EXISTING SWITCH TO REMAIN



ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE



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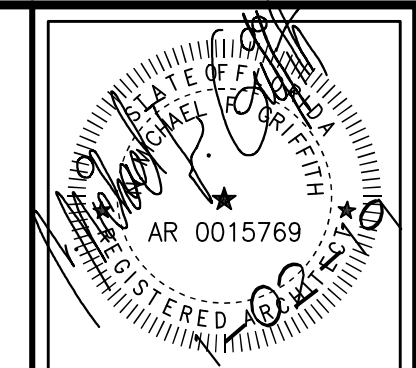
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NEW CONSTRUCTION PLAN - REFLECTED CEILING PLAN
 DINING EXPANSION FOR:
SUN 'N LAKE CLUBHOUSE
 5225 SUN 'N LAKE BLVD.,
 SEBRING, HIGHLAND COUNTY, FL

DATE: 1-02-19
 SCALE: AS NOTED
 DRAWN BY: DB
 CHECK'D BY: MG
 PROJECT NO: 1837

ARCHITECTURAL
2

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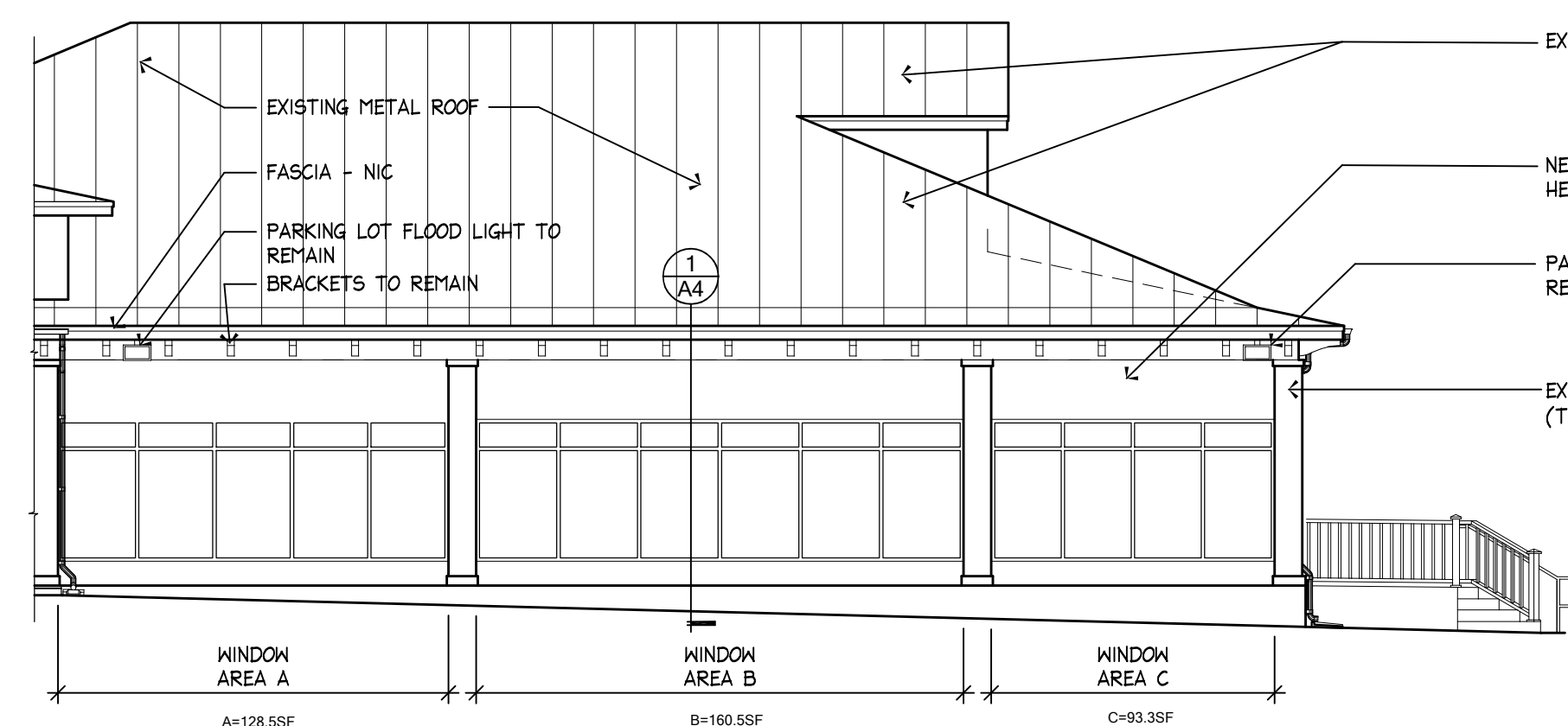
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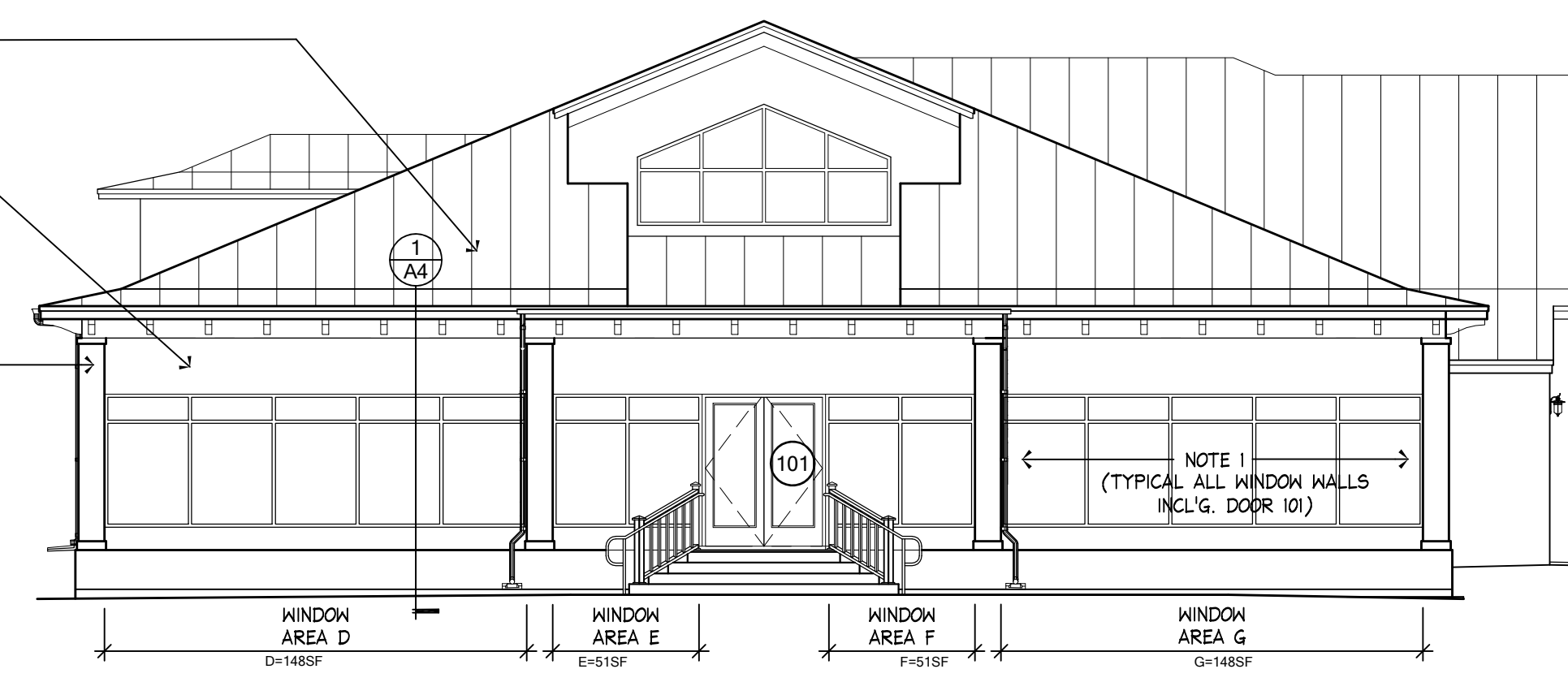
MICHAEL GRIFFITH
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DEMO & NEW CONSTRUCTION INTERIOR ELEVATIONS
 DINING EXPANSION FOR:
SUN 'N LAKE CLUBHOUSE
 5223 SUN 'N LAKE BLVD.,
 SEBRING, HIGHLAND COUNTY, FL
 DATE: 1-02-19 SCALE: AS NOTED DRAWN BY: DB CHECK'D BY: MG PROJECT NO: 1837

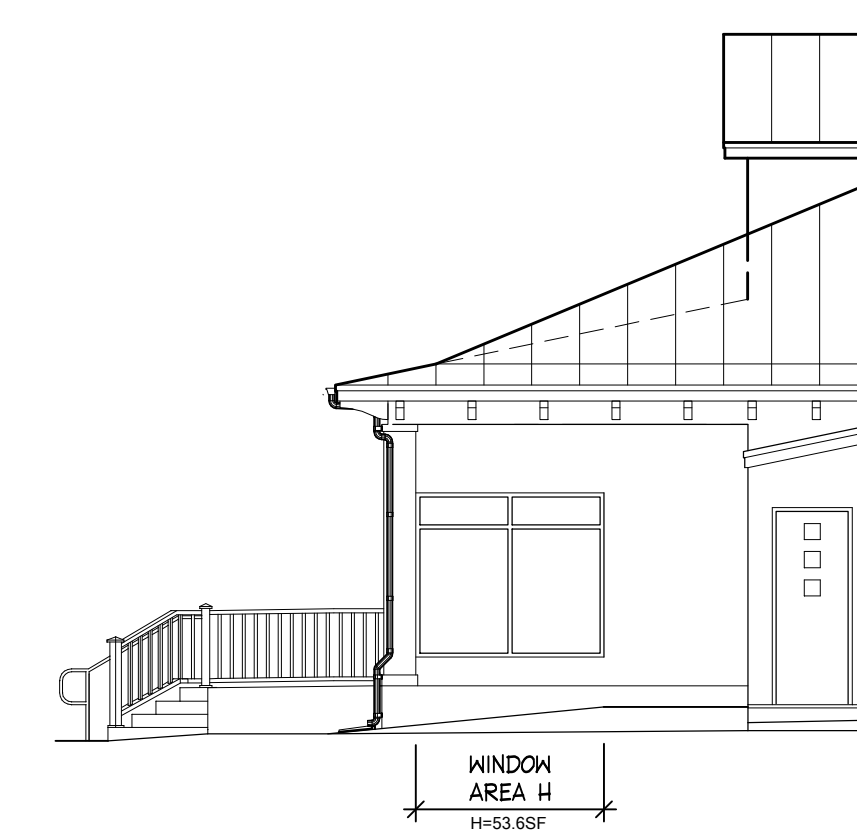
ARCHITECTURAL
3



WEST ELEVATION E A3
 FACING CART PARKING 1/8"=1'-0"

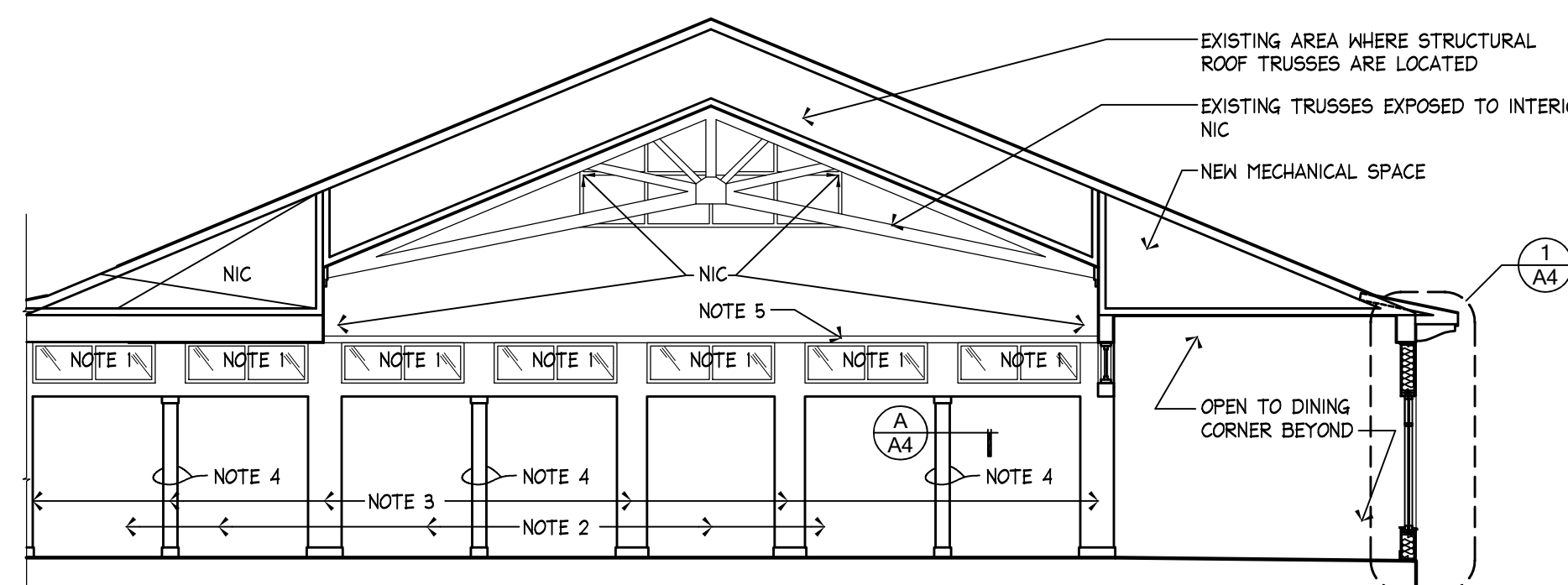


SOUTH ELEVATION F A3
 FACING POND 1/8"=1'-0"



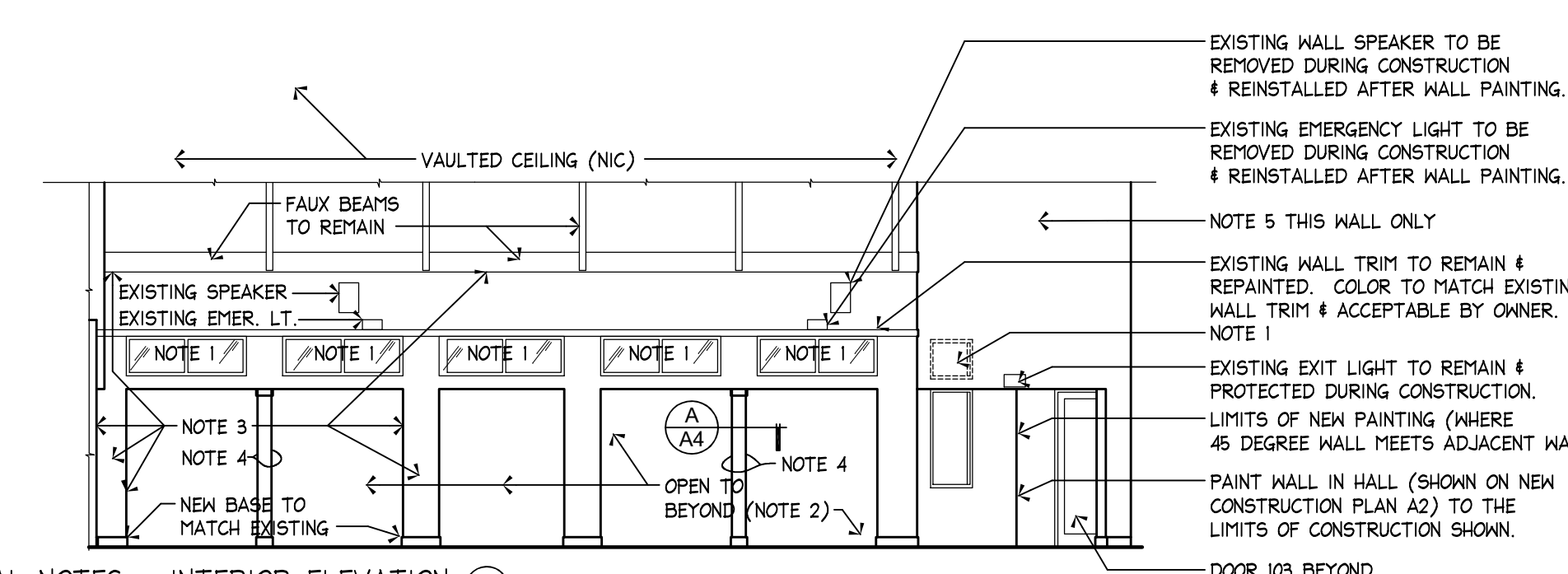
EAST ELEVATION G A3
 1/8"=1'-0"

GENERAL EXTERIOR ELEVATION NOTES:
 1. WINDOW WALL UNITS PER NOTES & SPECS ON SECTION 1/A4. SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT & SUN 'N LAKE PM FOR REVIEWS & APPROVAL PRIOR TO INSTALLATION.



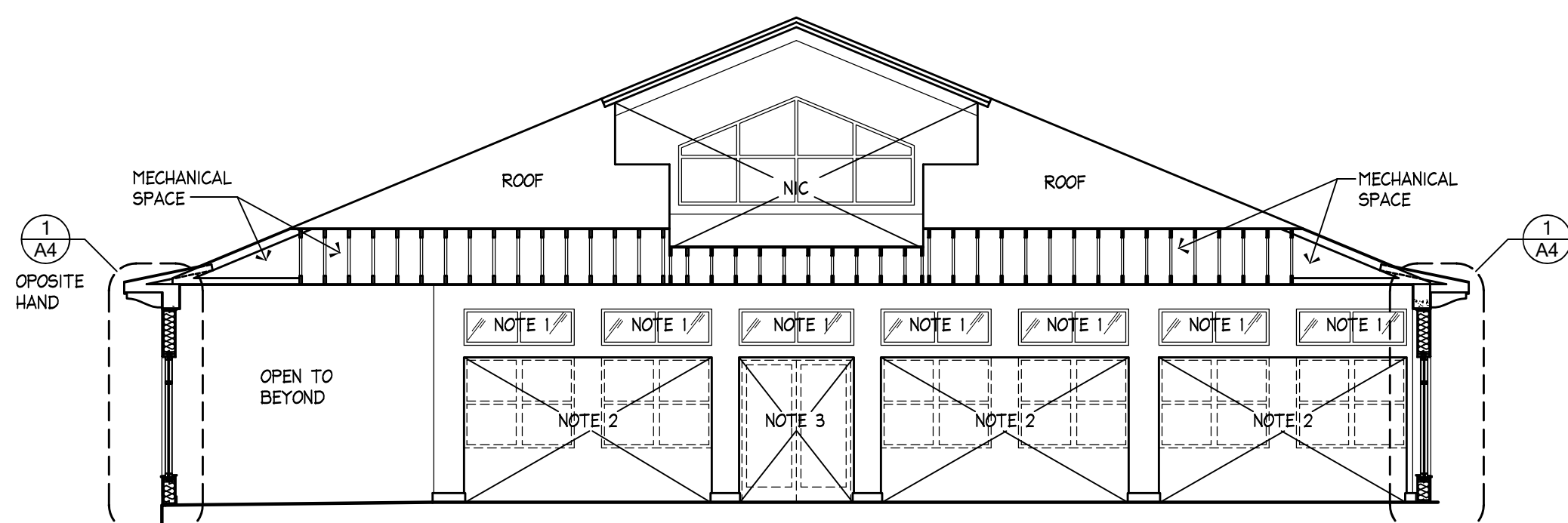
INTERIOR FINISH ELEVATION D A3
 (VIEW FROM EXISTING DINING ROOM) 1/8"=1'-0"

GENERAL NOTES - INTERIOR ELEVATION
 1. EXISTING TRANSOM WINDOWS/FRAMES TO REMAIN. PROTECT DURING CONSTRUCTION AND CLEANED PRIOR TO C.O.
 2. OPENINGS SHOWN AS 'OPEN TO BEYOND' ARE OPENED TO NEW DINING AREA BEYOND. DEMOLITION OF DOOR & WINDOWS & PORTIONS OF WALL NOT SHOWN FOR CLARITY OF NEW WORK. SEE ELEVATION 'A' FOR DEMOLITION.
 3. WALLS SHOWN ON THIS ELEVATION SHALL BE PAINTED PER SELECTION APPROVED BY OWNER.
 4. NEW STRUCTURAL COLUMN
 5. EXISTING HEADER TRIM SHALL BE 'UPPER' LIMITS OF NEW PAINTING.



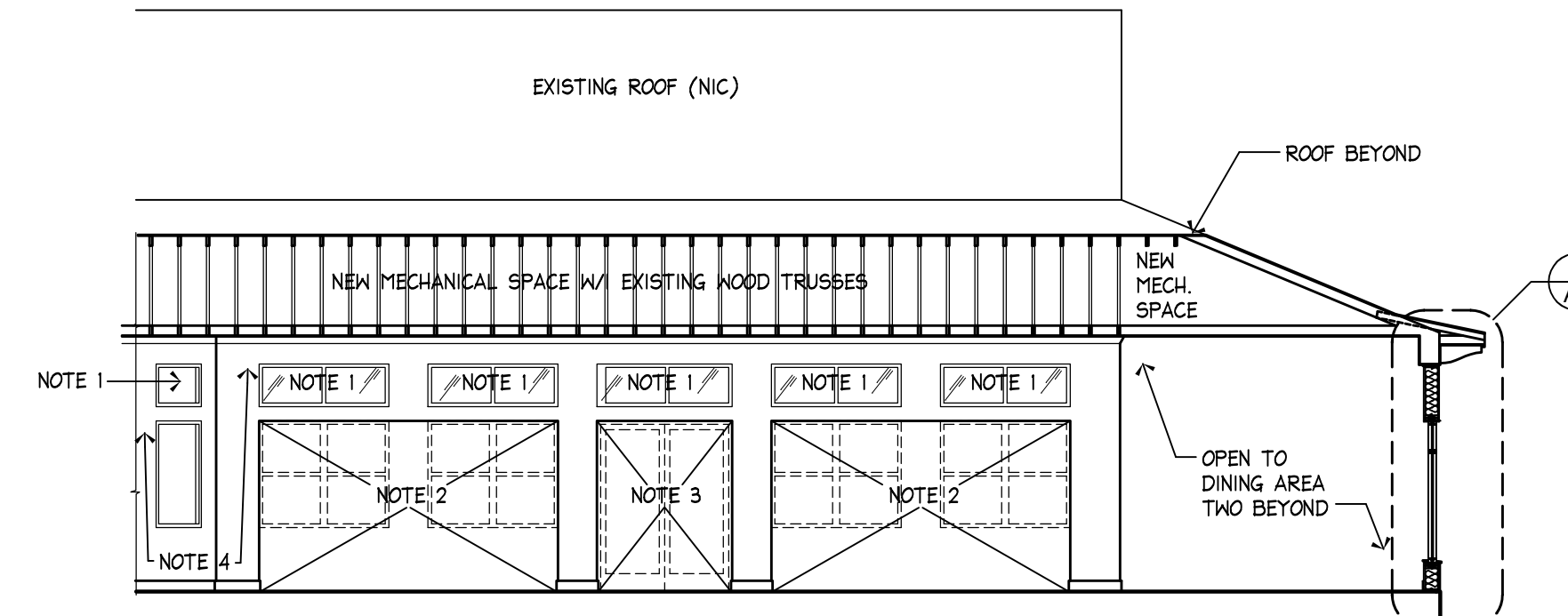
INTERIOR FINISHED ELEVATION B A3
 (VIEW FROM EXISTING DINING ROOM) 1/8"=1'-0"

GENERAL NOTES - INTERIOR ELEVATION
 1. EXISTING TRANSOM WINDOWS/FRAMES TO REMAIN. PROTECT DURING CONSTRUCTION AND CLEANED PRIOR TO C.O.
 2. OPENINGS SHOWN AS 'OPEN TO BEYOND' ARE OPENED TO NEW DINING AREA BEYOND. DEMOLITION OF DOOR & WINDOWS & PORTIONS OF WALL NOT SHOWN FOR CLARITY OF NEW WORK. SEE ELEVATION A/A3 FOR DEMOLITION.
 3. WALLS SHOWN ON THIS ELEVATION SHALL BE PAINTED PER SELECTION APPROVED BY OWNER. LIMITS OF HEIGHT OF NEW PAINTING SHALL BE TO BOTTOM OF FAUX BEAM.
 4. NEW STRUCTURAL COLUMN
 5. GC TO CONFIRM W/OWNER THE LIMITS OF NEW PAINTING.



DEMO INTERIOR ELEVATION C A3
 (VIEW FROM DINING AREA TWO) 1/8"=1'-0"

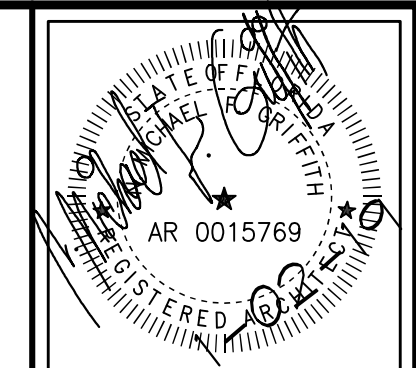
GENERAL NOTES - INTERIOR ELEVATION
 1. EXISTING TRANSOM WINDOWS/FRAMES TO REMAIN. PROTECT DURING CONSTRUCTION AND CLEANED PRIOR TO C.O.
 2. AREA SHOWN ON DRAWINGS TO BE REMOVED. DISTURBANCES TO OVERHEAD BEAMS, WINDOWS AND WALL JAMBS & FLOORING MATERIAL SURFACES TO BE REPAIRED & CLEANED TO ACCEPT NEW SCHEDULED MATERIALS
 3. REMOVE EXISTING MTL. STOREFRONT DOOR, FRAME & HARDWARE & REPAIR OPENING SAME AS NOTE 2.
 4. REMAINING WALL SURFACES TO BE INSPECTED; PATCH WHERE REQUIRED & PREPARE TO ACCEPT NEW PAINT.



DEMO INTERIOR ELEVATION A A3
 (VIEW FROM DINING AREA ONE) 1/8"=1'-0"

GENERAL NOTES - INTERIOR ELEVATION
 1. EXISTING TRANSOM WINDOWS/FRAMES TO REMAIN. PROTECT DURING CONSTRUCTION AND CLEANED PRIOR TO C.O.
 2. AREA SHOWN ON DRAWINGS TO BE REMOVED. DISTURBANCES TO OVERHEAD BEAMS, WINDOWS AND WALL JAMBS & FLOORING MATERIAL SURFACES TO BE REPAIRED & CLEANED TO ACCEPT NEW SCHEDULED MATERIALS
 3. REMOVE EXISTING MTL. STOREFRONT DOOR, FRAME & HARDWARE & REPAIR OPENING SAME AS NOTE 2.
 4. REMAINING WALL SURFACES TO BE INSPECTED; PATCH WHERE REQUIRED & PREPARE TO ACCEPT NEW PAINT.

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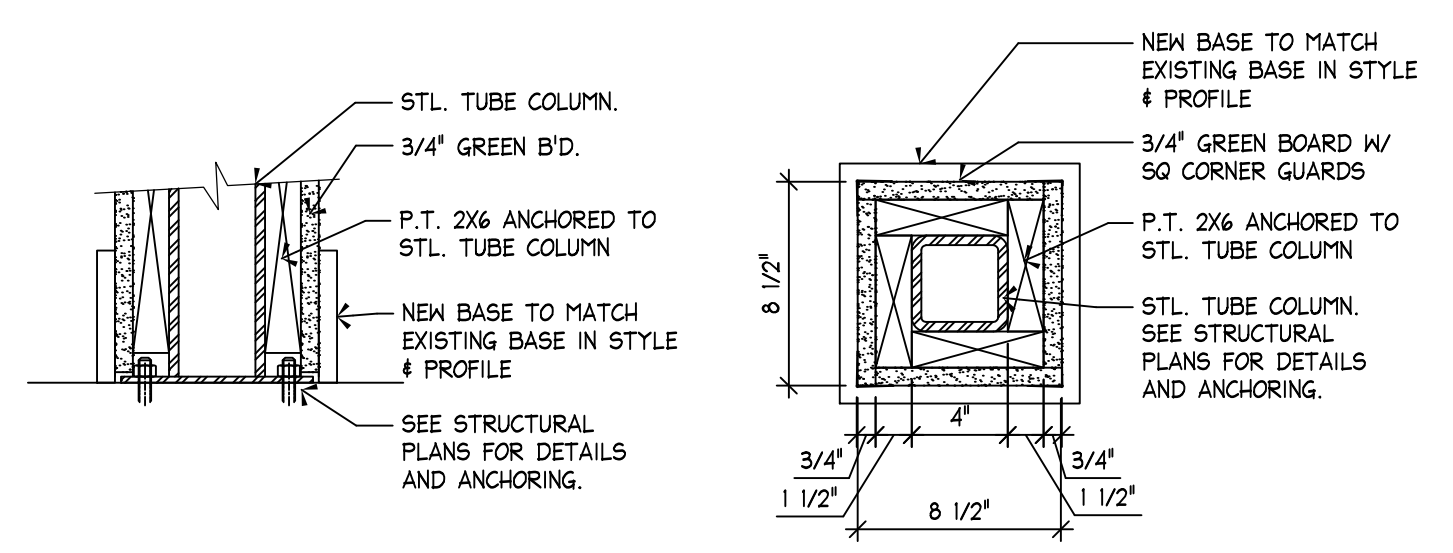
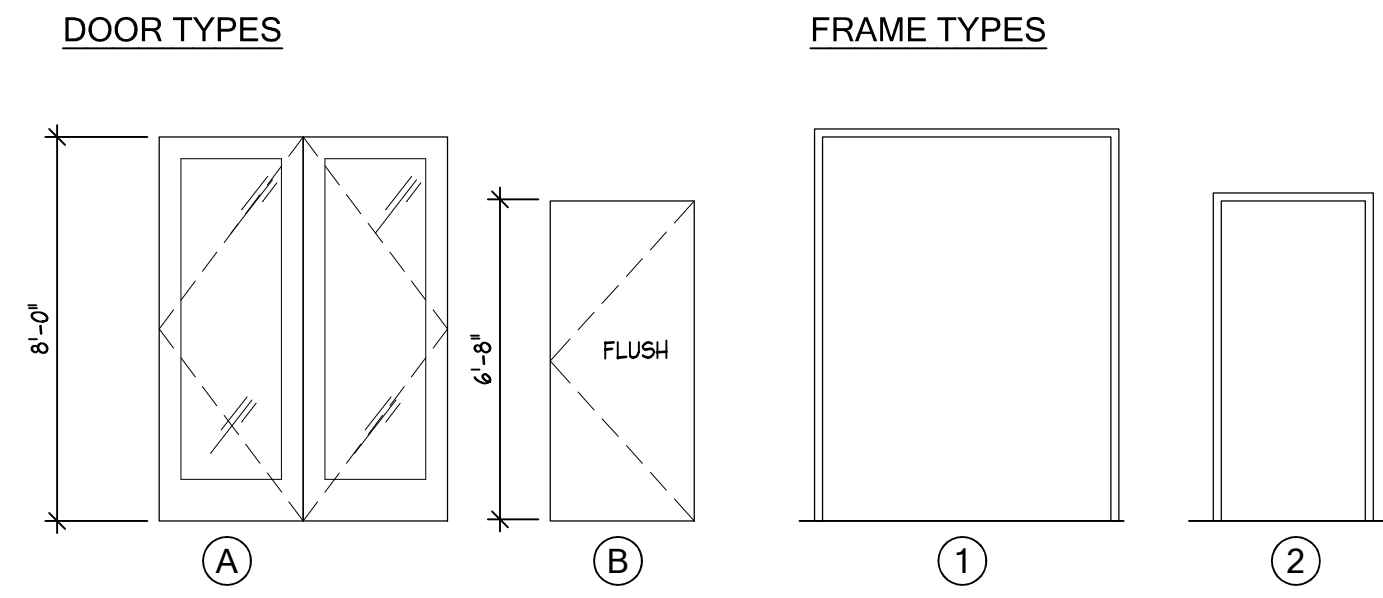
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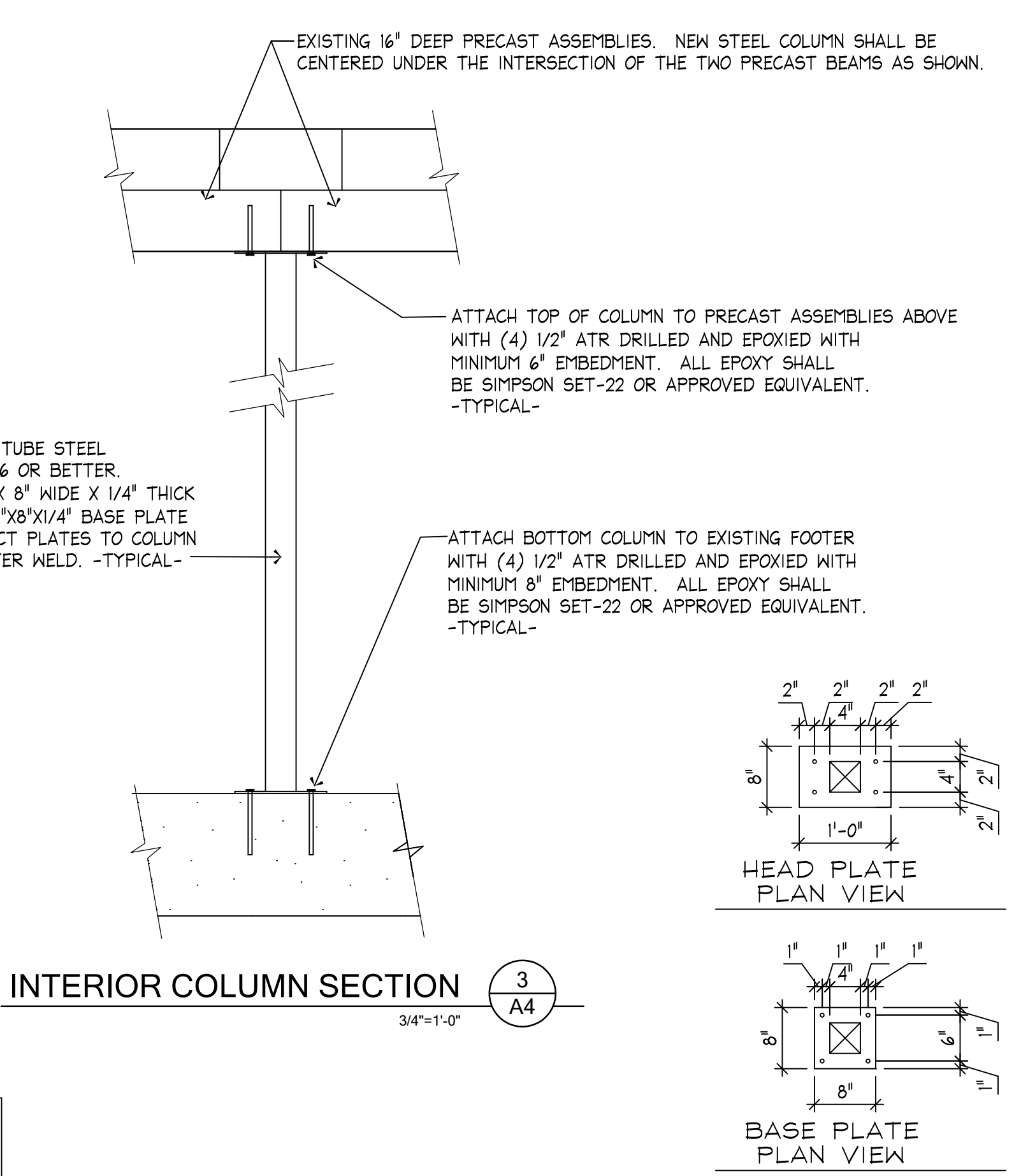
MISC. DETAILS - SCHEDULES
DINING EXPANSION FOR:
SUN 'N LAKE CLUBHOUSE
5225 SUN 'N LAKE BLVD.
SEBRING, HIGHLAND COUNTY, FL
DATE: 11-02-19 SCALE: AS NOTED
DRAWN BY: DB
CHECK'D BY: MG
PROJECT NO: 1837

ARCHITECTURAL
4

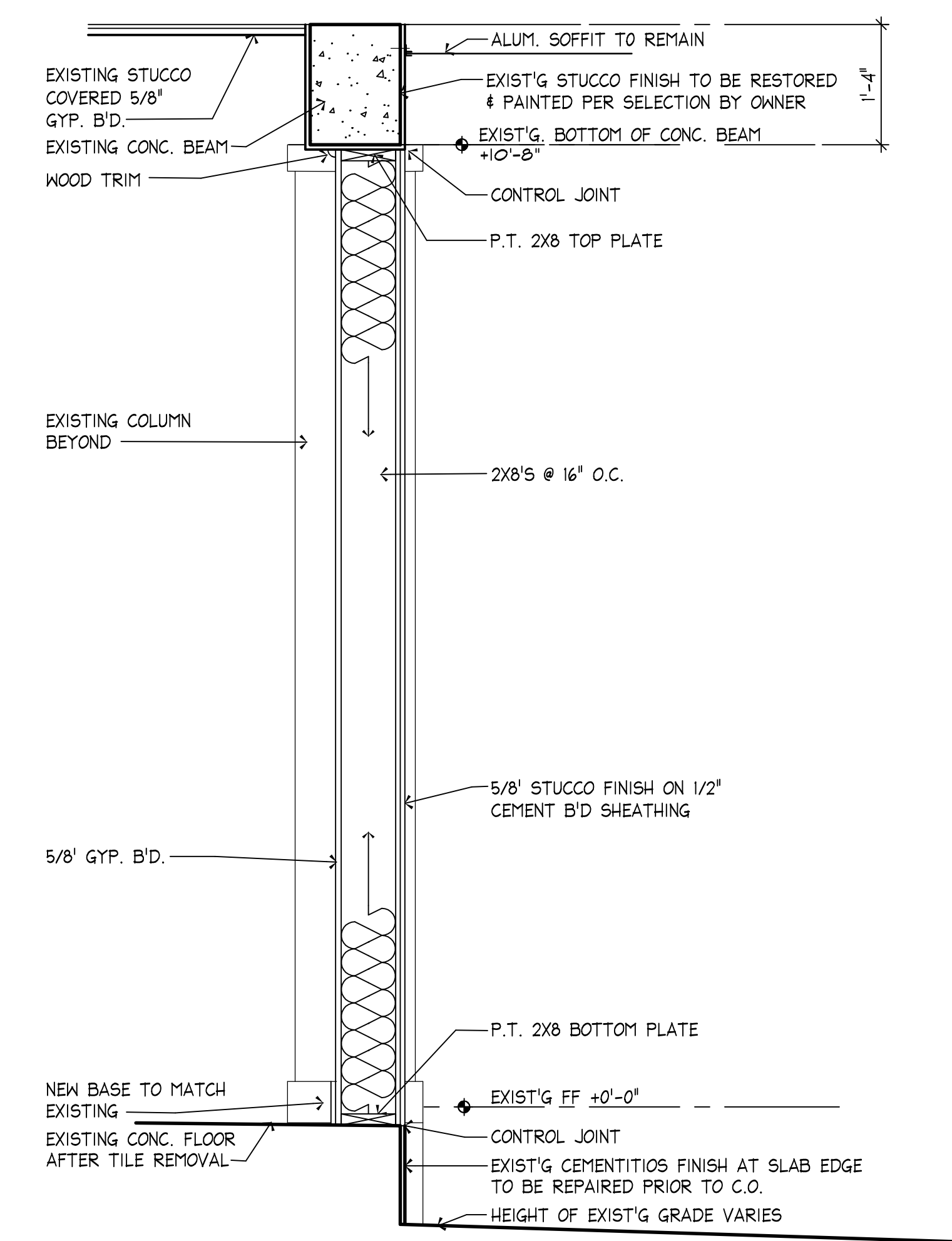
DOOR SCHEDULE 'O'									
MARK	SIZE			MATL	TYPE	FRAME		DP RATING	REMARKS
	WD	HGT	THK			MATL	TYPE		
101	6'-0"	8'-0"	1 3/4"	MTL.	A	MTL.	1	40	STOREFRONT - FULL LITE W/PANIC
102	3'-0"	6'-8"	1 3/4"	MTL.	A	MTL.	2	40	CLOSER - LOCKSET
103	EXISTING EXIT DOUBLE DOORS								



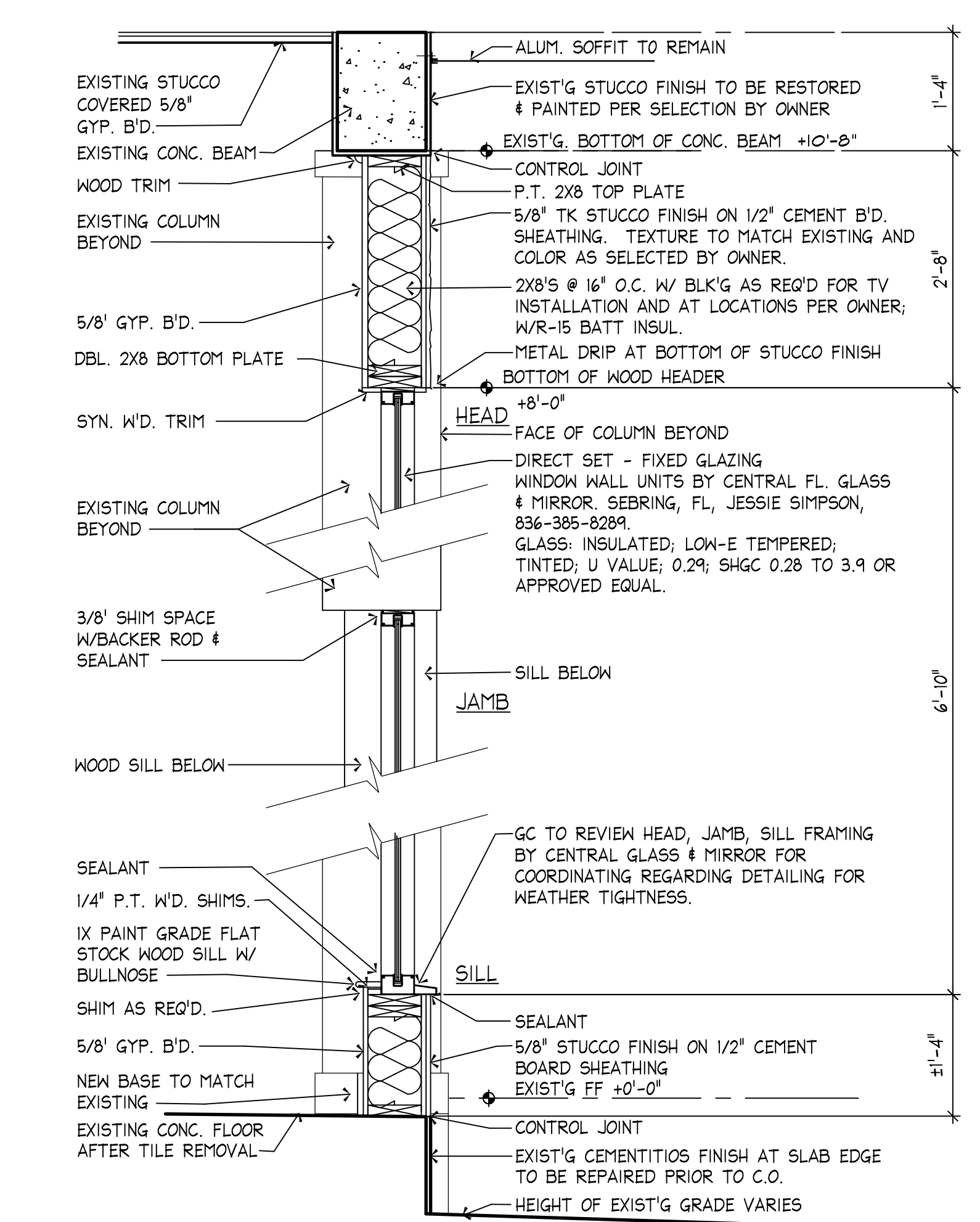
STL PIPE COLUMN DETAILS
1 1/2"=1'-0"



INTERIOR COLUMN SECTION
3/4"=1'-0"



EXTERIOR WALL SECTION
3/4"=1'-0"



EXTERIOR WALL SECTION
3/4"=1'-0"

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

***Sun 'N Lake Clubhouse Expansion
HVAC Load Analysis***

for

Sun 'N Lake Clubhouse
5223 Sun 'N Lake Blvd.
Sebring, Florida

Elite Software

CHVAC COMMERCIAL
HVAC LOADS

Prepared By:

Eric J. Svoboda, PE
Fort Pierce Engineering, Inc.
315 South 7th Street
Fort Pierce, FL 34950
772-672-4636
Wednesday, December 19, 2018



Building Summary Loads

Building peaks in August at 5pm.

Bldg Load Descriptions	Area Quan	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain
Roof	1,568	3,136	6.72	0	2,563	2,563	2.58
Wall	982	2,671	5.72	0	1,897	1,897	1.91
Glass	794	9,210	19.74	0	17,064	17,064	17.18
Floor Slab	148	3,670	7.87	0	0	0	0.00
Skin Loads		18,687	40.04	0	21,524	21,524	21.66
Lighting	3,136	0	0.00	0	10,700	10,700	10.77
Equipment	1,568	0	0.00	0	5,350	5,350	5.38
Pool Latent	0	0	0.00	0	0	0	0.00
People	44	0	0.00	6,820	10,780	17,600	17.71
Partition	0	0	0.00	0	0	0	0.00
Cool. Pret.	0	0	0.00	0	0	0	0.00
Heat. Pret.	0	0	0.00	0	0	0	0.00
Cool. Vent.	650	0	0.00	30,776	12,824	43,600	43.88
Heat. Vent.	650	27,979	59.96	0	0	0	0.00
Cool. Infil.	0	0	0.00	0	0	0	0.00
Heat. Infil.	0	0	0.00	0	0	0	0.00
Draw-Thru Fan	0	0	0.00	0	582	582	0.59
Blow-Thru Fan	0	0	0.00	0	0	0	0.00
Reserve Cap.	0	0	0.00	0	0	0	0.00
Reheat Cap.	0	0	0.00	0	0	0	0.00
Supply Duct	0	0	0.00	0	0	0	0.00
Return Duct	0	0	0.00	0	0	0	0.00
Misc. Supply	0	0	0.00	0	0	0	0.00
Misc. Return	0	0	0.00	0	0	0	0.00
Building Totals		46,666	100.00	37,596	61,760	99,357	100.00

Building Summary	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain
Ventilation	27,979	59.96	30,776	12,824	43,600	43.88
Infiltration	0	0.00	0	0	0	0.00
Pretreated Air	0	0.00	0	0	0	0.00
Room Loads	18,687	40.04	6,820	48,354	55,174	55.53
Plenum Loads	0	0.00	0	0	0	0.00
Fan/Duct/Misc Loads	0	0.00	0	582	582	0.59
Building Totals	46,666	100.00	37,596	61,760	99,357	100.00

Check Figures

Total Building Supply Air (based on a 21° TD):	2,439 CFM
Total Building Vent. Air (26.65% of Supply):	650 CFM
Total Conditioned Air Space:	1,568 Sq.ft
Supply Air Per Unit Area:	1.5555 CFM/Sq.ft
Area Per Cooling Capacity:	189.4 Sq.ft/Ton
Cooling Capacity Per Area:	0.0053 Tons/Sq.ft
Heating Capacity Per Area:	29.76 Btuh/Sq.ft
Total Heating Required With Outside Air:	46,666 Btuh
Total Cooling Required With Outside Air:	8.28 Tons



Air Handler #1 - AHU 8 - Summary Loads

Rm No	Description Room Peak Time	Area People Volume	Htg.Loss Htg.CFM CFM/Sqft	Sen.Gain Clg.CFM CFM/Sqft	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.CFM Act.CFM	Clg.O.A. Req.CFM Act.CFM
1	South Enclosure 2pm December	854 24 10,248	10,370 482 0.56	30,088 1,321 1.55	3,720 0 0	Direct 350 350	Direct 350 350
	Room Peak Totals:	854	10,370	30,088	3,720		
	Total Rooms: 1	24	482	1,321	0	350	350
	Unique Rooms: 1	10,248	0.56	1.55	0	350	350



Air Handler #1 - AHU 8 - Total Load Summary

Air Handler Description: AHU 8 Constant Volume - Proportion
 Supply Air Fan: Draw-Thru with program estimated horsepower of 0.12 HP
 Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
 Sensible Heat Ratio: 0.89 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 2pm in August.
 Outdoor Conditions: Clg: 94° DB, 80° WB, 132.41 grains, Htg: 35° DB
 Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Because of the diversity in room, plenum and ventilation loads, the room sensible peak time in December at 2pm is different from the total system peak time, hence the air system CFM was computed using a room sensible load of 30,088.

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Room Space sensible loss:	10,370 Btuh	
Infiltration sensible loss:	0 Btuh	0 CFM
Outside Air sensible loss:	15,065 Btuh	350 CFM
Supply Duct sensible loss:	0 Btuh	
Return Duct sensible loss:	0 Btuh	
Return Plenum sensible loss:	0 Btuh	
Total System sensible loss:		25,435 Btuh

Heating Supply Air: $10,370 / (.996 \times 1.08 \times 20) =$	482 CFM
Winter Vent Outside Air (72.6% of supply) =	350 CFM

Room space sensible gain:	24,884 Btuh	
Infiltration sensible gain:	0 Btuh	
Draw-thru fan sensible gain:	315 Btuh	
Supply duct sensible gain:	0 Btuh	
Reserve sensible gain:	0 Btuh	
Total sensible gain on supply side of coil:		25,200 Btuh

Cooling Supply Air: $30,404 / (.996 \times 1.1 \times 21) =$	1,321 CFM
Summer Vent Outside Air (26.5% of supply) =	350 CFM

Return duct sensible gain:	0 Btuh	
Return plenum sensible gain:	0 Btuh	
Outside air sensible gain:	7,289 Btuh	350 CFM
Blow-thru fan sensible gain:	0 Btuh	
Total sensible gain on return side of coil:		7,289 Btuh
Total sensible gain on air handling system:		32,488 Btuh

Room space latent gain:	3,720 Btuh	
Infiltration latent gain:	0 Btuh	
Outside air latent gain:	16,182 Btuh	
Total latent gain on air handling system:		19,902 Btuh
Total system sensible and latent gain:		52,390 Btuh

Check Figures

Total Air Handler Supply Air (based on a 21° TD):	1,321 CFM
Total Air Handler Vent. Air (26.50% of Supply):	350 CFM
Total Conditioned Air Space:	854 Sq.ft
Supply Air Per Unit Area:	1.5467 CFM/Sq.ft
Area Per Cooling Capacity:	195.6 Sq.ft/Ton
Cooling Capacity Per Area:	0.0051 Tons/Sq.ft
Heating Capacity Per Area:	29.78 Btuh/Sq.ft
Total Heating Required With Outside Air:	25,435 Btuh
Total Cooling Required With Outside Air:	4.37 Tons



Air Handler #2 - AHU 9 - Summary Loads

Rm No	Description Room Peak Time	Area People Volume	Htg.Loss Htg.CFM CFM/Sqft	Sen.Gain Clg.CFM CFM/Sqft	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.CFM Act.CFM	Clg.O.A. Req.CFM Act.CFM
2	West Enclosure 5pm August	714 20 8,568	8,318 386 0.54	25,469 1,118 1.57	3,100 0 0	Direct 300 300	Direct 300 300
	Room Peak Totals:	714	8,318	25,469	3,100		
	Total Rooms: 1	20	386	1,118	0	300	300
	Unique Rooms: 1	8,568	0.54	1.57	0	300	300



Air Handler #2 - AHU 9 - Total Load Summary

Air Handler Description: AHU 9 Constant Volume - Proportion
 Supply Air Fan: Draw-Thru with program estimated horsepower of 0.11 HP
 Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
 Sensible Heat Ratio: 0.89 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
 Outdoor Conditions: Clg: 93° DB, 80° WB, 134.59 grains, Htg: 35° DB
 Indoor Conditions: Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	8,318 Btuh	
Infiltration sensible loss:	0 Btuh	0 CFM
Outside Air sensible loss:	12,913 Btuh	300 CFM
Supply Duct sensible loss:	0 Btuh	
Return Duct sensible loss:	0 Btuh	
Return Plenum sensible loss:	0 Btuh	
Total System sensible loss:		21,231 Btuh

Heating Supply Air: $8,318 / (.996 \times 1.08 \times 20) =$	386 CFM
Winter Vent Outside Air (77.6% of supply) =	300 CFM

Room space sensible gain:	25,469 Btuh	
Infiltration sensible gain:	0 Btuh	
Draw-thru fan sensible gain:	267 Btuh	
Supply duct sensible gain:	0 Btuh	
Reserve sensible gain:	0 Btuh	
Total sensible gain on supply side of coil:		25,736 Btuh

Cooling Supply Air: $25,736 / (.996 \times 1.1 \times 21) =$	1,118 CFM
Summer Vent Outside Air (26.8% of supply) =	300 CFM

Return duct sensible gain:	0 Btuh	
Return plenum sensible gain:	0 Btuh	
Outside air sensible gain:	5,919 Btuh	300 CFM
Blow-thru fan sensible gain:	0 Btuh	
Total sensible gain on return side of coil:		5,919 Btuh
Total sensible gain on air handling system:		31,654 Btuh

Room space latent gain:	3,100 Btuh	
Infiltration latent gain:	0 Btuh	
Outside air latent gain:	14,204 Btuh	
Total latent gain on air handling system:		17,304 Btuh
Total system sensible and latent gain:		48,959 Btuh

Check Figures

Total Air Handler Supply Air (based on a 21° TD):	1,118 CFM
Total Air Handler Vent. Air (26.83% of Supply):	300 CFM
Total Conditioned Air Space:	714 Sq.ft
Supply Air Per Unit Area:	1.5660 CFM/Sq.ft
Area Per Cooling Capacity:	175.0 Sq.ft/Ton
Cooling Capacity Per Area:	0.0057 Tons/Sq.ft
Heating Capacity Per Area:	29.74 Btuh/Sq.ft
Total Heating Required With Outside Air:	21,231 Btuh
Total Cooling Required With Outside Air:	4.08 Tons

OD MODEL
4TTA4060A3

ID MODEL
TAM4A0C60S51+TDR

NOM CFM
1900

ARI REF #
10070409

Published Date: 11/04/2018

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	ID WB	TOT CAP	72	75	78	80	KW
85	59	54.40	46.20	52.0	54.40	54.40	4.19
	63	57.00	37.50	43.4	49.20	53.00	4.23
	67	60.90	29.30	35.2	40.90	44.80	4.27
	71	66.10	21.40	27.2	33.00	36.90	4.31
95	59	51.60	44.90	50.2	51.60	51.60	4.66
	63	54.10	36.40	42.2	48.00	51.80	4.71
	67	57.80	28.10	34.0	39.80	43.60	4.75
	71	62.70	20.20	26.0	31.80	35.70	4.80
105	59	48.90	43.70	48.3	48.90	48.90	5.13
	63	51.20	35.20	41.0	46.80	50.70	5.18
	67	54.80	27.00	32.9	38.60	42.50	5.23
	71	59.40	19.10	24.9	30.70	34.60	5.28
115	59	46.10	42.50	46.1	46.10	46.10	5.60
	63	48.40	34.00	39.9	45.70	48.40	5.66
	67	51.70	25.90	31.7	37.50	41.40	5.72
	71	56.10	17.90	23.8	29.60	33.40	5.77

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1675	0.98	0.99
2150	1.02	1.01

ARI RATING FOR COOLING

Product Information

CFM	CAPACITY (A) TEST	SEER	EER
1680	56500	14.00	11.70

A.R.I. Standard Capacity Rating Conditions

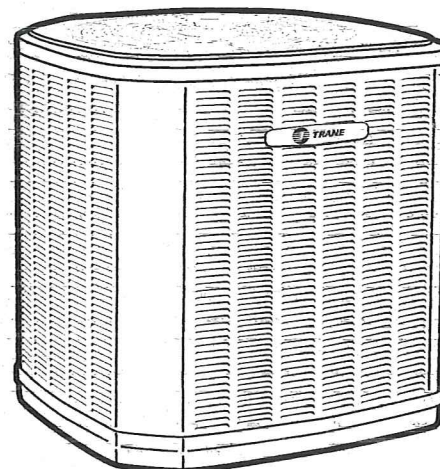
A.R.I. STANDARD 210/240 RATING CONDITIONS -- (A) Cooling 80°F D.B., 67°F W.B. air entering indoor coil, 95°F D.B. air entering outdoor coil. (B) High Temperature Heating 47°F D.B., 43°F W.B. air entering outdoor coil, 70°F D.B. air entering indoor coil. (C) Low Temperature Heating 17°F D.B., 15°F W.B. air entering outdoor coil, 70°F D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Submittal

Split System Air Conditioner 3-Phase, 208/230V

4TTA4060A3000A



Note: "Graphics in this document are for representation only. Actual model may differ in appearance."

TAG: CU8 & CU9

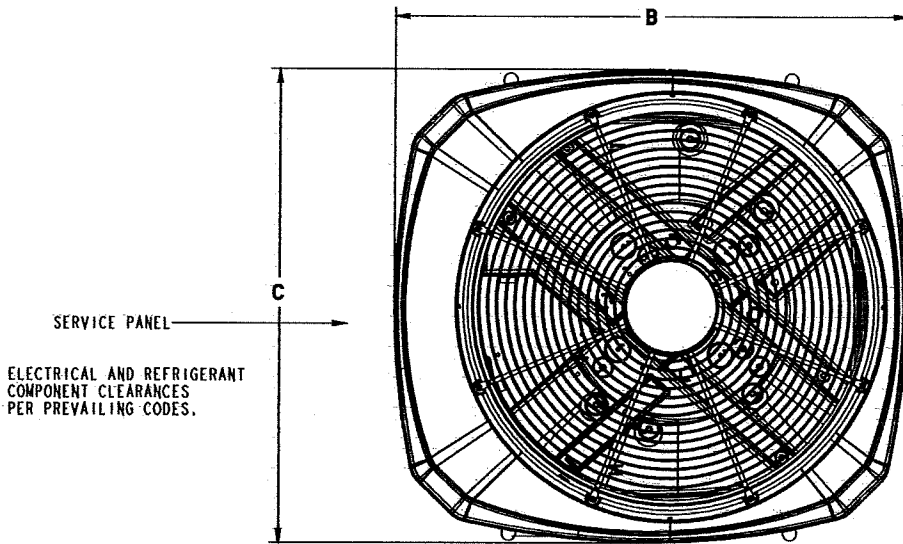
⚠ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

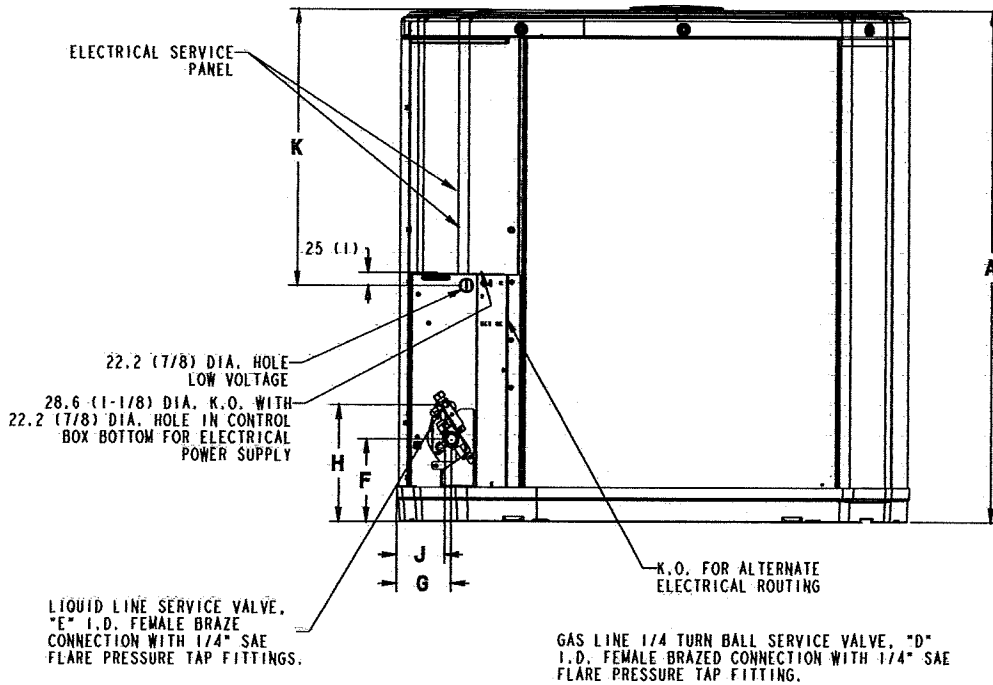
October 2016

4TTA4060A-SUB-3B-EN





TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 1524 (5 FEET) ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT, AND SHOULD BE AT LEAST 305 (12") FROM WALL AND ALL SURROUNDING SHRUBBERY ON TWO SIDES. OTHER TWO SIDES UNRESTRICTED.



Model	Base	A	B	C	D	E	F	G	H	J	K
4TTA4060A	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	143 (5-5/8)	83 (3-1-4)	206 (8-1/8)	70 (2-3/4)	508 (20)



SOUND POWER LEVEL

Model	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
		63 Hz*	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4TTA4060A	71	81	72	69	69	66	60	57	54

Note: Rated in accordance with AHRI Standard 270-2008 *For reference only



Product Specifications

OUTDOOR UNIT (a) (b)	4TTA4060A3000A
POWER CONNS. — V/PH/HZ (c)	208/230/3/60
MIN. BRCH. CIR. AMPACITY	21
BR. CIR. PROT. RTG. — MAX. (AMPS)	35
COMPRESSOR	CLIMATUFF®-SCROLL
NO. USED — NO. STAGES	1 — 1
VOLTS/PH/HZ	230/3/60
R.L. AMPS (d) — L.R. AMPS	15.9 — 110
FACTORY INSTALLED	
START COMPONENTS (e)	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	YES
OUTDOOR FAN	PROPELLER
DIA. (IN.) — NO. USED	27.5 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — 1
CFM @ 0.0 IN. W.G. (f)	4340
NO. MOTORS — HP	1 — 1/5
MOTOR SPEED R.P.M.	850
VOLTS/PH/HZ	230/1/60
F.L. AMPS	1.05
OUTDOOR COIL — TYPE	SPINE FIN™
ROWS — F.P.I.	1 — 24
FACE AREA (SQ. FT.)	24.93
TUBE SIZE (IN.)	3/8
REFRIGERANT	
LBS. — R-410A (O.D. UNIT) (g)	7LBS., 10 OZ
FACTORY SUPPLIED	YES
LINE SIZE — IN. O.D. GAS (h) (i)	7/8
LINE SIZE — IN. O.D. LIQ.	3/8
CHARGING SPECIFICATIONS	
SUBCOOLING	10°F
DIMENSIONS	H X W X D
CRATED (IN.)	42.4 x 35.1 x 38.7
WEIGHT	
SHIPPING (LBS.)	246
NET (LBS.)	211

(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

(b) Rated in accordance with AHRI standard 270.

(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

(e) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

(f) Standard Air — Dry Coil — Outdoor

(g) This value approximate. For more precise value see unit nameplate.

(h) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or refrigerant piping application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).

(i) Trane outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 ozs of refrigerant. See the Installer's Guide for full charging instructions.



Mechanical Specification Options

General

The Outdoor Units are fully charged from the factory for up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish on all louvered panels and the fan top panel. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test. The base is made of a CMBP-G30 weatherproof material to resist corrosion.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high pressure switch. High and low pressure controls are inherent to the compressor. A factory supplied liquid line drier is standard. Some models may require field installation.

Compressor

The compressor features internal over temperature, pressure protection and total dipped hermetic motor. Other features include: Centrifugal oil pump and low vibration and noise.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this system has a cooling capacity to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

Thermostats—Cooling only and heat/cooling (manual and automatic change over). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.



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4TTA4060A-SUB-3B-EN 19 Oct 2016

Supersedes 4TTA4060A-SUB-3A-EN (July 2016)



TAG: AH8 & AH9

Submittal

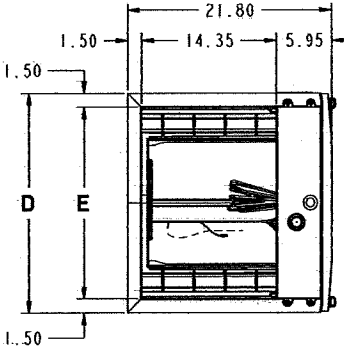
5 Ton Convertible Air Handler

Black Epoxy Coil

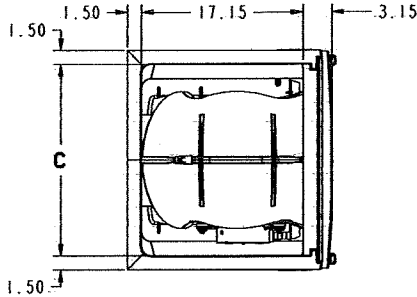
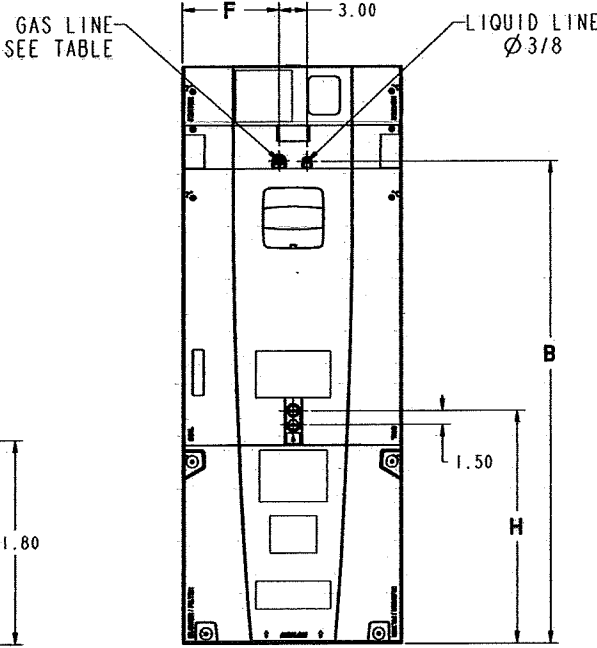
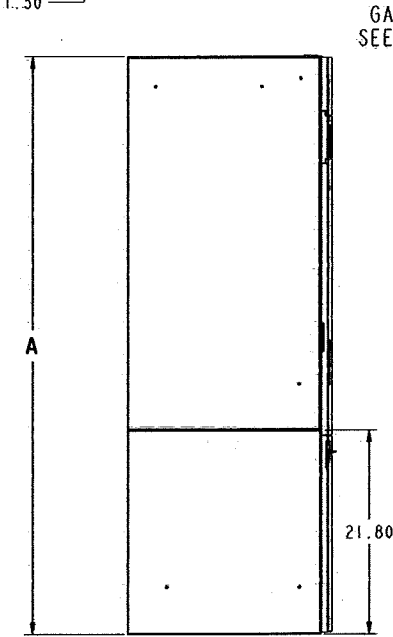
TAM4A0C60S51ED

Standard Coil

TAM4A0C60S51SD



MINIMUM UNIT CLEARANCE TABLE		
	TO COMBUSTIBLE MATERIAL (REQUIRED)	SERVICE CLEARANCE (RECOMMENDED)
SIDES	0"	2"
FRONT	0"	21"
BACK	0"	0"
INLET DUCT	0"	
OUTLET DUCT	0"	



MODEL NO.	A	B	C	D	E	F	H	Flow Control	R-410A Gas Line BRAZE	R-410A Liq. Line BRAZE
TAM4A0C60	61.7	51.5	20.5	23.5	20.5	10.3	27.0	EEV/24V	7/8	3/8

PRODUCT SPECIFICATIONS

PRODUCT SPECIFICATIONS	
MODEL	TAM4A0C60S51ED TAM4A0C60S51SD
RATED VOLTS/PH/HZ.	208-230/1/60
RATINGS ①	See O.D. Specifications
INDOOR COIL — Type	Plate Fin
Rows — F.P.I.	4 - 14
Face Area (sq. ft.)	5.50
Tube Size (in.)	3/8
Refrigerant Control	EEV
Drain Conn. Size (in.) ②	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing
INDOOR FAN — Type	Centrifugal
Diameter-Width (in.)	11 X 10
No. Used	1
Drive - No. Speeds	Direct - 5 ③
CFM vs. in. w.g.	See Fan Performance Table
No. Motors — H.P.	1 - 1
Motor Speed R.P.M.	1050
Volts/Ph/Hz	208-230/1/60
F.L. Amps	7.6
FILTER	
Filter Furnished?	No
Type Recommended	Throwaway
No.-Size-Thickness	1 - 22 X 20 - 1 in.
REFRIGERANT	R-410A
Ref. Line Connections	Brazed
Coupling or Conn. Size — in. Gas	7/8
Coupling or Conn. Size — in. Liq.	3/8
DIMENSIONS	H x W x D
Crated (In.)	62-13/16 x 25-1/2 x 24-1/2
Uncrated	61-23/32 x 23-1/2 x 21-13/16
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	171/159

- ① These Air Handlers are A.H.R.I. certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.
- ② 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)
- ③ Constant torque Motor



TAM4A0C60S51 MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAAC04BK1 BAYEAAC04LG1	Tap 2	Tap 2
BAYEAAC05BK1 BAYEAAC05LG1	Tap 2	Tap 2
BAYEAAC08BK1 BAYEAAC08LG1	Tap 3	Tap 2
BAYEAAC10BK1 BAYEAAC10LG1	Tap 3	Tap 2
BAYEAAC10LG3	Tap 1	Tap 1
BAYEABC15BK1	Tap 4	Tap 3
BAYEABC15LG3	Tap 1	Tap 1
BAYEABC20BK1	Tap 4	Tap 3
BAYEACC25BK1	Tap 5	Tap 4

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4 for the CTM motor.

AIRFLOW PERFORMANCE										
TAM4A0C60S51										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	2169	1956	1874	1739	1633	2165	2033	1871	1736	1629
0.1	2161	1916	1839	1696	1588	2155	1990	1833	1690	1582
0.2	2130	1889	1803	1667	1554	2121	1961	1795	1659	1545
0.3	2102	1850	1774	1628	1523	2090	1919	1763	1617	1511
0.4	2066	1818	1741	1596	1491	2052	1884	1727	1582	1477
0.5	2015	1785	1707	1564	1457	1998	1848	1690	1547	1440
0.6	1959	1754	1673	1520	1408	1939	1814	1653	1500	1389
0.7	1888	1716	1638	1477	1372	1880	1774	1615	1455	1349
0.8	1811	1680	1605	1440	1323	1820	1735	1580	1415	1298
0.9	1750	1628	1561	1403	1291	1770	1680	1533	1376	1263
1.0	1680	1604	1533	1368	1256	1725	1654	1503	1337	1226

NOTES:
1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

WIRING DATA											
TAM4A0C60S51											
Heater Model No.	No. of Circuits	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	-	-	-	7.6**	10	15	-	-	7.6**	10	15
BAYE AAC04++	1	3.84	13100	16	30	30	2.88	9800	13.80	27	30
BAYE AAC05++	1	4.80	16400	20.0	35	35	3.60	12300	17.3	31	35
BAYE AAC08++	1	7.68	26200	32.0	50	50	5.76	19700	27.7	44	45
BAYE AAC10++	1	9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
BAYE AAC10LG3	1-3PH	9.60	32800	23.1	37	40	7.20	24600	20.0	34	35
BAYE ABC15LG3	1-3PH	14.40	49200	34.6	52	60	10.80	36900	30.0	46	50
BAYE ABC15++	2										
circuit 1		9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYE ABC20++	2										
circuit 1		9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYE ACC25++	3										
circuit 1		9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
circuit 3		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25

Note: ** Motor Amps

Notes: 1. See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters
2. Heater model numbers may have additional suffix digits.

Mechanical Specifications

- Unique Cabinet Design
 - Double Wall Foamed and Formed Cabinet System
 - Water Proof Cabinet Design
 - \geq R-4.2 Insulating Value (Avg Insulating Value R-8.2)
 - Composite Foamed Cabinet Doors
 - Sweat Eliminating Cabinet Design
 - Loose Fiber Eliminating Cabinet Design
 - Smooth Cleanable Cabinet Design
 - 2% or Less air leakage
 - Precision Durable Door Seals
 - Modular Cabinet Design
- Multi-Position UP/Down Flow Horizontal Left / Right
- Side Return Option
- Braze in Refrigerant Connection
- Primary/Secondary Condensate Connections
- Premarked Conduit Connection Locations
- Vortica® Blower with Integrated Slide Deck for Easy Removal
- Polarized Plug connections on Blower
- Aluminum Coil with Integrated Slide Deck for Easy Removal
- Polarized Plug connections on Coil EEV
- Slide in Electric Heaters
- Polarized Plug connections for Electric Heater
- Labeled Panels and connections
- 1-1/4" to 1" And 3/4" to 1/2" Conduit connection on Left, Right and Top
- Molded in 1" Standard Filter rail
- Electronic Expansion Valve (EEV) With Low Ambient and Low Superheat Protection
- Dual Refrigerant Compatible as Shipped
- Low Voltage Terminal Connection Point
- 8 Alert Codes
- Enhanced Coil Fin Patented
- Blow Through Design
- High Efficiency ECM Motor
- Maximum Width of 23.5"
- Compact 20.8" depth with doors removed
- integrated Horizontal Drain pans
- Single Color
- Fused 24V Power
- **5 year warranty**
- **10-year warranty registered**
- **Optional extended warranty available**
- **Warranty Mirrors Outdoor**



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The manufacturer has a policy of continuous product and product data improvement and it reserves the right to change design and specification without notice.