ARCHITECTURAL ABBREVIATIONS

NOTE: WHEN PLURAL OF A TERM IS INTENDED, THE SUFFIX "S" WILL BE ADDED TO ITS ABBREVIATION.

L ANGLE FRM PREPERTAGENANT TREATED WORD PTOME PERCEPTING 0 AL PS FOLDING SHOWER SLAT PV PERCEPTING PLOPING 4 CHERELINE FTG FODING PERCEPTING PLOTING QLARENTI 8 FURTE CA GAUSE PL PARTE AC AR CONDITION (FER (AND) GE GRABE BAR PON PRINT PERCENTION AC AR CONDITION (FER (AND) GE GRABE BAR PON PRINT PERCENTION AC AR CONDITION (FER (AND) GE GRABE BAR PRINT PERCENTION PRINT PERCENTION AC AR CONDITION (FER (AND) GE GRAEB AR PRINT PERCENTION PRINT PERCENTION AC AR CONDITION (FER (AND) GE GRAEB AR PRINT PERCENTION PRINT PERCENTION AC AR CONDITION (FER (AND) GE GRAEB AR PRINT PERCENTION PRINT PERCENTION AC AR CONDITION (FER (AND) GE GRAEB AR PRINT PERCENTION PRINT PERCENTION <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th></tr<>						
B AT FISS FOLDING SHOWER SEAT PROD PECUPACION 1 CHIFELINED FT FOOTING OUDERSTAT PADE PUVXOOD 2 CATERELINED FT FOOTING T PUVXOOD PUVXOOD 4 PATE GALV CALVALAZED R PADE PUVXOOD 4 PATE CALV CALVALAZED R PUVXOOD PUVXOOD AC AR COUNTION (FERLEN CALING GB GRABIAN PUVXOOD PEBAR PEDEFORM AC ARCOUNTION (WALLSYSTEIN GT GLAZED CALVALACATIVA PEBAR PEBAR <td>&</td> <td>AND</td> <td>FLDR</td> <td>FOLDING DOOR</td> <td>PTD</td> <td>PAPER TOWEL DISPENSE</td>	&	AND	FLDR	FOLDING DOOR	PTD	PAPER TOWEL DISPENSE
Image: state of the s	L				PTD/WR	PAPER TOWEL DISPENSE
V PY FT FEE POOL PLYMOD L MARTERLINED FTG FOOTING OT GUARRYTT L PARTE GA GAUGE R R RADUS AC AR CONDITION LER (MR6) GB GABBAR ROWERD R R AR ANDORTON LER (MR6) GB GABBAR ROWERD R R AR ANDORTON LER (MR6) GC GUARRYTT R R R R R AR ANDORTON LER (MR6) GC GUARD MALL CONTRACTOR REP REIDARR REIDARR REIDARR ADJ ADJUSTALL GUARD MALL CONTRACTOR REP REIDARR REIDARR </td <td>@</td> <td></td> <td></td> <td>FOLDING SHOWER SEAT</td> <td></td> <td>RECEPTACLE</td>	@			FOLDING SHOWER SEAT		RECEPTACLE
. NOME REQUIRED UNIT UNIT UNIT Le PLATE CALY SAUMEED R R ADDUS AC AR CONTINO LERY (MR) GB GRAPE AR R/W REINTORCE AC ACOUSTICAL PAREL CELING GC GLASS, GLAZNG REP REPORT AC ACOUSTICAL PAREL CELING GC GLASS, GLAZNG REP REPORT AC ACOUSTICAL PAREL CELING GC GLASS, GLAZNG REP REPORT AC ACOUSTICAL MALL SYSTEM GT GLAZED WAL THE REPORT REPORT REPORT REPORT ALT ALTERNATE GT GLAZED WAL THE REPORT REPORT REPORT REPORT APROXIMARLELY HO HEIGHT HINGT REPORT REPORT REPORT REPORT REPORT BLAGENNO HO HAND DAYER RT REPORT	Х	BY			PWD	PLYWOOD
. NOME REQUIRED UNIT UNIT UNIT Le PLATE CALY SAUMEED R R ADDUS AC AR CONTINO LERY (MR) GB GRAPE AR R/W REINTORCE AC ACOUSTICAL PAREL CELING GC GLASS, GLAZNG REP REPORT AC ACOUSTICAL PAREL CELING GC GLASS, GLAZNG REP REPORT AC ACOUSTICAL PAREL CELING GC GLASS, GLAZNG REP REPORT AC ACOUSTICAL MALL SYSTEM GT GLAZED WAL THE REPORT REPORT REPORT REPORT ALT ALTERNATE GT GLAZED WAL THE REPORT REPORT REPORT REPORT APROXIMARLELY HO HEIGHT HINGT REPORT REPORT REPORT REPORT REPORT BLAGENNO HO HAND DAYER RT REPORT	¢		FTG	FOOTING		
CALV CALVAURZED H HAULS ACC ARCONDITION (ER) (MB) GB GBAB BAR RN POP REUFFORM ACP ARCONDITION (ER) (MB) GB GBAB BAR CONTRACTOR POP REUFFORM ACP ARCONDITION (MCL VSTEM GC GEAZED DELANK (NDSALC) PEBAR REUFFORM ACV ARCONSTALL (WL SYSTEM GC GLAZED DELANK (NDSALC) PEDAR REUFFORM ACV ARCONSTALL (WL SYSTEM GC GLAZED DELANK (NDSALC) PEDAR REUFFORM ALT AND (ADUSTALE GWC GRAZED WALL (LE) PEDAR RECIVERED ALT ANTENNATE H HEGHT (HGH PEPC REVERCE ALT ANTENNATE HC HOLLOW (CORE RH ROBE HOD BLKG BLOCANS HDV HADD (MARCE) REV REVERCE BLKG BLOCANS HDV HADD (MARCE) REVERCE REVERCE BLKG BLOCANS HDV HADD (MARCE) SC SC OUSC	-	NONE REQUIRED			QT	QUARRY TILE
AC AIR CONDITION (#R) (MD) CON CONTRACTOR R/W RIGHT-DA- Reinborg AG ANGHOR BOLT CC CONTRACTOR ROP REINPORT AC F ACOUSTICAL PAREL CELING CCT GLARED (CRAING) REINPORT REINPORT AC W ACOUSTICAL WALL SYSTEM CT GLARED (WALL CONTRACTOR REENPER REINPORT AC W ACOUSTICAL WALL SYSTEM CT GLARED (WALL CONTRACTOR REENPER REENPER ALI ALIERNATE CIVC GLAZED WALL CONTRACTOR REENPER REENPER AFI ALIERNATE CIVC GLAZED WALL CONTRACTOR REENPER REENPER ALT ALIERNATE H HOR HOR REENPER REENPER BLIC BLIDING H HOW HARDWARE RN ROUTING REENPER BLID BLIDING HOR HOR HARDWARE RN ROUTING REENPER BLID BLIDING H HOR HARDWARE RN ROUTING R	r£.	PLATE			D	
ADD-OR BOLT COL COL CONTRACTOR PCP PENNORCE ACP ADDOISTOLA FUEL CENING GCT GLZ CONTRACTOR RC RC </td <td></td> <td></td> <td></td> <td>GALVANIZED</td> <td></td> <td></td>				GALVANIZED		
DP ACOUSTICAL PAREL CELLING DC CALE CALE <thcale< th=""> CALE CALE<!--</td--><td></td><td></td><td></td><td>GRAB BAR</td><td></td><td>REINFORCED CONCRETE</td></thcale<>				GRAB BAR		REINFORCED CONCRETE
ACT ACCOUNT ACTUE Land Cut			GC	GENERAL CONTRACTOR		
Colver Colversity Colversity Colversity Colversity Pect Term <				GLAZED CERAMIC MOSAIC		
ADJ CAULE C			GL	GLASS, GLAZING		
APPE ADDIE FINISHED FLOOR GYNE DD OWEDD MARKED REC00 REC01 ALM ALUBNUM GYPLS GYPELM FLASTER REV REV ALT ALTERNATE H HERLING REV REV ALT ALTERNATE H HERLING REV REV ALT ALTERNATE H HERLING REV REV BLG BUILDING HO HOLDIN/CORE RH ROB REV BLG BUILDING HO HORDINARE RF RT RUBBERT BLG BUILTUP ROOFING HM HOLDIN NATOR SC SOLID COR BLR BUILTUP ROOFING H HORZ HORZONTAL(Y) SH SOL SOLID COR CB CATCH RASIN D INSUE DIAMETER SC SOLID COR CAG CATCH RASIN D INSUE ANDOR ST SOL SOLID COR CG CATCH RASIN INV INSUE ANDOR ST SOL SOLID COR		ACOUSTICAL WALL SYSTEM	GT	GLAZED WALL TILE		
ALL RES F RES F RES ALL			GWC	GLAZED WALL COATING		
ALT MATERIATE BITS OFFOUNDABLER REV REVERSE APPROX APPROXIMATELY H HOLLOW CORE RH RO REFORMER APPROX APPROXIMATELY HC HOLLOW CORE RH RH ROBEHOO BLGG BULINGS HD HOW HOLWARE RR RH ROBEHOO BLGG BULINGS HD HOW HOLWARE RR RH ROBEHOO BLGG BULINGS HD HOW HOLWARE RR RH ROBEHOO BLGG BULINGS HD HOW HOLWARE RA RP FT RUBBENT BRK BULI JUP ROGING HR HOW HOLWARE RA ROBEHOO BRK BULI JUP ROGING HR HOW HOLWARE STORE SC SOLUD COR CE CATCH BASIN SC SOLUD COR CE ACTCH BASIN SC SOLUD COR CHALGO CHALKOARD IN INSUL ATION SC SOLUD COR CHALGO CHALKOARD INSUL INSULATION SC SOLUD COR CHALGO CHALKOARD INT INSUL ATION SC SOLUD COR CHALGO CHALKOARD INT INSUL ATION SC SOLUD COR CHALGO CHALKOARD INT INSUL ATION ST SO SOLUD COR CHALGO CHALKOARD INT INSUL ATION ST SOLUTION SOLUTION SOLUTION CONC CONCRETE SC SOLUTION INT INTERNA COLC CONCRETE SC SOLUTION SHOL SOLUTION SHOL SHOW SOLUTION CONC CONCRETER SOLUTION INT INTERNA CONC CONCRETER SOLUTION INTO INSUL ATION SHO SHOWER CONC CONCRETER SOLUTION INTO INTERNA CONC CONCRETER SOLUTION INTO INTERNA CONC CONCRETER SHOW SOLUTION INTO INTO INTERNA CONC CONCRETER SOLUTION INTO INTO INTO INTO INTO INTO INTO	AFF	ABOVE FINISHED FLOOR	GYP BD	GYPSUM BOARD		
APPROX APPROXMULELY H HEIGHT.HIGH RFG REFIGURE BLOG BULORIG HD HAND DRYER RM ROBE BLGG BUCKING HD HAND DRYER RM ROBE BM BEAM HD HAND DRYER RM ROBE BM BEAM HD HOLLOW MEFAL RT RUBES BW BEAM HD HOLLOW MEFAL RT RUBES BUR BUILTUP ROCING HORZ HORZ HORZ SC SOLID CE BUR BUILTUP ROCING HA HOUR SC SOLID CE SC SOLID CE CHARD INT INSIDE DIAMETER SC SOLID CE SOLID CE <td< td=""><td>ALM</td><td>ALUMINUM</td><td>GYPLS</td><td>GYPSUM PLASTER</td><td></td><td>RESINOUS FLOORING</td></td<>	ALM	ALUMINUM	GYPLS	GYPSUM PLASTER		RESINOUS FLOORING
APPROX APPROXIMALLEY HC HOLOW CORE FH ROBE HOL BLOG BULDNG HD HAND DAYER FM RODOM BLK BULDNG HDW HARDWARE FR RINE RODOM BLK BULTUP ROGENG HORE HORE HORE RINE SC SOLIECT BLR BULTUP ROGENG HR HORE HORE SC SOLIECT BLR BULTUP ROGENG HR HORE SC SOLIECT CB CATCH BASIN IN HEROR SC SOLIECT CHKBD CHALKGOAR IN INSUL INSULATION SI SOL SOLIECT CAG CELUNG INV INVERT SH SOLAP HOLE CAG COLONET JANTOR SH SOLAP HOLE CAL CANGUAGE ARTS SH SOLAP HOLE CAL LANGUAGE ARTS SH SOLAPHOLE CAL CANGUAGE ARTS SH SOLAPHOLE CONT	ALT	ALTERNATE	н			
BLDG BUIL NING HD HAND DRYCR PM RODAL BUKG BLOCKING HM HOLOW METAL RT RUBED PR BUK BURCK HB HORE BUB RT RUBED PR BUR BULT-UP ROOFING HORIZ HORIZOTIALLY) SH SCL SCHWARD BUR BULT-UP ROOFING HORIZ HORIZOTIALLY) SH SCL SCHWARD CB CATCH BASIN D INSIDE DIAMETER SCL SCHWARD SCL SCHWARD CG CEMPLS CATCH BASIN D INSUL INSULATION SD SCAP SIGN CLG CELING INT INTERIOR SFT GL SAFETY GL SAFETY GL CLG COLOR CONCRETE BASONRY UNIT JAN JANITOR SHO SHOW SHOWER COMU CONRETE BASONRY UNIT JAN JANITOR SHO SHOW SHOWER COMC CONRETE BASONRY UNIT JAN JANITOR SHO SHOW SHOWER COMC CONRETE CANSTRY UNIT JAN	APPROX	APPROXIMATELY				
BLIG BUCKING HOW HARDWARE PP RT RUBBER TI BIKG BLOCKING HM HOLOW METAL, RT RUBBER TI BIK BIKU BURL NATE HOR HORE RUBBER TI BUR BURL PROFING HOR HOR SC SOURCOR BUR BURL PROFING HR HOUR SC SOURCOR CM CATCH BASIN INIT INSUL INSUL SOURCOR SC SOURCOR CH60D CHALROARD INSUL INSUL INSUL SOURCOR SFI GL SAFETYG CAG CELOG CLOG CLOG SFI GL SAFETYG SHO SAP HOU CAG COLOR COLORETE MASONRY UNIT JAN JANITOR SHO SAMTARY SHO SAMTARY CONF CONFERENCE LA LANGUAGE ARTS SHM SMILAR SHO SAMTARY CONF CONFERENCE LA LANGUAGE ARTS SNM SMILAR SNO SAMTARY CONF						
BIAD BLOCATING HM HOLOW METAL PT RUBBER TI BRV BROCK HB HORZONTALLY) SH SALEARMA BRV BRUCTUP ROOFING HORIZ HORIZONTALLY) SH SCI SOLUCOR CB CATCH BASIN D INSIDE DIAMETER SCI SOLUCIOR CB CATCH BASIN D INSUL INSUL SNO SOAP DISP CLG CELING INT INTERIOR ST CL SAFETY GL CLG CELING INT INTERIOR SHO SHOWER C CLG COUNCRETE MASONRY UNIT JAN JANTOR SHO SHOWER SOAP DISP CONC COUNCRETE MASONRY UNIT JAN JANTOR SHO SHOWER SANTARY CONC CONSTECTON LA LANCHAREARTS SIM SMUTARY CONT CONSTECTON LA LANCHAREARTS SNV SNVTARY CORR CONSTECTON LAW LANCHAREARTS SNV SAUTARY CO						
Bink BIRK BIRK HB HOSE BIBB No BURCLIN BUR BURCLUP ROOFING HR HORZ HORZONTALL'U) SH SCI SCIUD COR BUR BURTUP ROSFING HR HORZONTALL'U) SCI SCI SCIUD COR CEN PLS CEMENT PLASTER (PORTLAND) D INSUE INSUE DIMMETER SCR SHOWER C CH400 CHALKBOARD INT INTERIOR SFI CL SAFETY CL SAFETY CL CH400 COLOC CLOSET INT INTERIOR SHO SHOWER C CAU CANCRETE MASONRY UNIT JAN JANITOR SHO SHOWER C CON COLOC CLOSET LA LANGUAGE ARTS SIM SMITARY I CONF CONFRENCE LA LANGUAGE ARTS SIM SMITARY I CONF CONTRUCTION LA LANGUAGE ARTS SIM SMITARY I CONF CONTRUCTION LA LANGUAGE ARTS SIM SMITARY I CONF CONTRUCTION						RAISED PROFILE RUBBER
DNA BUR BULT_UP COFING HR HORIZ HORIZ/LU/) Shit ESELEDIMA SOLID COR CB CATOH BASIN D INSIDE DIMETER SCI SOLID COR CB CATOH BASIN D INSIDE DIMETER SCR SOLID COR CH CEMPST EXERT(PORTLAND) IN INSUL INSUL TOTAL SOLID COR CH CO CLASCARD INSUL INSUL TOTAL SOLID COR SOLID COR CLO CLOSET INV INVERT SHO SAPPOL SAPPOL COL CONCRETE MASONRY UNIT JAN JANITOR SHO SAPPOL SHO SAPPOL CONC COLINN CONSTENCTON LA LANGUAGE ARTS SIM SIMULAR CONT CONSTENCTON LAV LAVITORY SNV SANTARY CONT CONSTENCTON LAV LAVITORY SNV SANTARY CONT CONSTRUCTON LAV LAVITORY SNV SANTARY CONT CONTRUCTON LAV LAVITORY					RT	RUBBER TILE
Built Built of RUGHNO HR HOUR SC SCUID COR CB CATCH BASN SC SCUENCE SCIENCE	BRK	BRICK				
CB CATCHASIN SCI SCIENTER CEN PIS CAMENT PLAND) ID INSUE DIAMETER SCR SHOWER C CHO CAMENT PLANDARD INSUE ATTON SD SDA PDRS CLO CLOST INV INTERIOR SFTGL SHOWER C CLO CLOST INV INVERT SHO SAPHOL CU CONCRETE MASONRY UNIT JAN JANITOR SHO SAPHOL COM COLINM AN JANITOR SHO SAPHOL COM COLINM JAN JANITOR SHO SAPHOL COMC COLINM JAN JANITOR SHO SAPHOL COMC CONSTENCTION LA LANGUAGE ARTS SIM SIMILAR CONST CONSTENCTION LAV LAVITORY SIV SANTARY SIV SANTARY CONT CONSTRUCTION LAV LAVITORY SIV SANTARY CONT CONTROLOGIS LAV LAVITORY SIV SANTARY COTT CONTROLOGIS	BUR	BUILT-UP ROOFING				SEALER/HARDENER
CEMPLS CEMENT PLASTER (PORTLAND) D INSUL INSULATION SOR SAMPLERS CHGBD CHAUKBOARD INT INTERIOR SPT GL SAPETYGL CLO CLOSET INV INVERT SHO SAPHOLI CMU CONCRETE MASONRY UNIT JAN JANITOR SHO SAPHOLI CMU CONCRETE MASONRY UNIT JAN JANITOR SHO SHOWER C CMU CONCRETE MASONRY UNIT JAN JANITOR SHO SHOWER C CONC CONCRETE MASONRY UNIT JAN JANITOR SHO SHOWER C CONC CONTRUCTION LA LANGUAGE ARTS SIM SMULAR CONT CONTRUCTION LA LANGUAR ARTS SNO SANITARY CONT CONTRUCTION LA LANGUAR ARTS SNO SANITARY CONT CONTRUCTION LA MANITARY SNO SANITARY CONT CONTROLOGN LA LANGUAR ARTS SNO SANITARY CPT CARET LAN M			HR	HOUR		
CHRED CHARGOARD INT INTERIOR SD SOA SOAP DEP CRED CALLED CHARGOARD INT INTERIOR S ST GL SAFETY GL CAL COLLING UNV INTERIOR ST GL SAFETY GL CAL COLLET INT INTERIOR ST GL SAFETY GL COL COLLET INT INTERIOR SHOW INVERT SH SOAP HOL CAL COLCET INT INT INTERIOR SHOW SHO SHOW SHOW SHOW SHOW SHOW SHOW			חו			
Chab Operation INT INTERIOR SD SD/G						SHOWER CURTAIN/ROD
CLO CLORETE MASONRY UNIT INV INVERT Shi South Hole CMU CONCRETE MASONRY UNIT JAN JANTOR ShO C ShOWP HOLE COL COLLMAN JT JOINT ShO C ShOWP AC CONC CONCRETE ShO H ShO H ShO H ShO H CONC CONCRETE LA LANGUAGE ARTS SiM ShULLAR CONT CONTRUCTION LAM LAMINATED ShO H ShO H CONT CONTRUCTION LAW LAVATORY ShV SANTARY CONT CONTRUCTION LAW LAVATORY ShV SANTARY CONT CONTROL JOINT LMC LINEAR MERIA CELLING SPECIAL C CT CERMANC MOSACTILE SI STELE SI SOUND TR CT CERMANC MOSACTILE MATL MAINT <maintenance< td=""> SI STELE CUS DEEP, DEPTH MATL MAINT<maintenance< td=""> SI STELE DL DEEP, DEPTH MATL</maintenance<></maintenance<>	CHKBD	CHALKBOARD				SOAP DISPENSER
CMU CONCRETE MASONRY UNIT JAN JANTOR Sh0 Sh0/WER COL COLUMN JT JOINT Sh0 Sh0/WER COC CONCRETE JAN JOINT Sh0 Sh0/WER CONF CONCRETE LA LANGUAGE ARTS SIM SIMURA CONT CONTRUCUS LA LANGUAGE ARTS SIM SANTARY CONT CONTRUCUS LA LANGUAGE ARTS SIM SANTARY CORT CONTRUCUS LA LANGUARTED SNV SANTARY CORT CONTRUCUS LA LANGUARTED SNV SANTARY CORT CONTROLOUS LA LANGUARTED SNV SANTARY CORT CONTROLOUS LA LAM LANGUARTED SNV SANTARY CORT CONTROLOUS LA LA LANGUARTED SNV SANTARY CPT CARPET LM LANGUARTED SNV SANTARY CPT CARPET LM LANGUARTED SNV SANTARY CPT CARPET LM MERCA ST ST CPT CONTROLOUSALTIE LM MIRROR ST SULAREE CPT <td>CLG</td> <td>CEILING</td> <td></td> <td></td> <td></td> <td>SAFETY GLASS</td>	CLG	CEILING				SAFETY GLASS
COL COLUMN JAN JAN DR SHOULS SHOULS SHOWER CONC CONCERE J JOINT SHO SHOWER SHOWER CONF CONFERENCE LA LANGUAGEARTS SIM SMU CONST CONSTRUCTION LAM LAMINATED SNU SANITARYI CONT CONTINUOUS LAV LAVATORY SNU SANITARYI COR CORTIDOR LH LOGG LEG HORIZONTAL SNUD SANITARYI CORT CARPET LMC LINEAR MERIAL CEILING SPECES SPECEFICA CTC CERMIN (MOSACTILE M MIRROR SS STAINLERS CUS CUSTODIANS UTLITY SHELF MS MIRRORSHELF STC SOUND TR D DEEP.DEPTH MANT MATTEMANCE STR STAINLERS DIA DEUBLE MAX MAXINUM STO STAINLERS DIA DEEP.DEPTH MANT MATTEMANCE STR STRUCTUR	CLO	CLOSET	INV	INVERI	SH	SOAP HOLDER
COL COUNT SHO H SHITAH SHO H	CMU	CONCRETE MASONRY UNIT	IAN		SHO	SHOWER
CONC CONCRETE SHO M SHOWER CONF CONFERINCE LA LANGUAGE ARTS SIM SIMIL CONST CONSTRUCTION LAM LAMINATED SND SAMITARYI CORR CORRIDOR LLH LONG LEG HORZONTAL SNV/D SAMITARYI CORR CORRIDOR LLH LONG LEG HORZONTAL SNV/D SAMITARYI CORR CARPET LMC LINEAR METAL CELLING SPC C SPECIA CT CERAMIC MOSAC TILE LW LIGHTWEIGHT SO SOLARE CUS CUSTODANS UTILITY SHELF MS MIRROR/SHELF STC SOLADAT D DEEP, DEPTH MANT MATERNACE STD STANDARO DL DEEP, DEPTH MAT MATERNACE STG STANDARO DALA DIAMETER MAR MANTMAN STC STANDARO DALA DAMARTON MFR MANINUM STC STANDARO DAL DOMINN MH MA	COL	COLUMN			SHO C	SHOWER CONTROLS
CONST CONSTRUCTION LAM LAMINATED SND SANITARY I CONT CONTUDUS LAV LAVATORY SNVD SANITARY I CORR CORRIDOR LIH LONG LEG HORIZONTAL SNVD SANITARY I CPT CARPET LMC LINEAR METAL CELING SPC SPECIFICA SPECIAL CELING SPC SPECIFICA CR CLASSROOM LW LIGHTWEIAFT SQ SQUARE SQ SQUARE CT CERAMIC MOSAC TILE M MIRROR ST ST SOUND TS ST ST SOUND TS CUS CUSTODIANS UTILITY SHELF MS MIRROR ST ST ST SOUND TS ST ST ST SOUND TS D DEEP, DEPTH MAT MATENANCE ST ST ST ST ST SOUND TS ST S	CONC	CONCRETE	JI	JOINT	SHO H	SHOWER HEAD
CONST CONSTRUCTION LAM LAMINATED SND SANITARY CONT CONTIOUS LAV LAVATORY SNV SANITARY CORR CORRIDOR LLH LONG LEG HORIZONTAL SNVD SANITARY CPT CARET LMC LINEAR METAL CELING SPECS SPECIAL C CR CLASSROOM LW LINEAR METAL CELING SPECS SPECIFICA CT CERAMIC MOSAIC TLE W LIGHTWRIGHT SQ SQUARE CUS CUSTODIANS UTILITY SHELF MS MIRROR ST ST STANDARD D DEEP, DEPTH MAT MATERAL STL STEL DBL DOUBLE MAX MAXMUM STOR STORAGE DA DIMETER MFR MANUM STOR STORAGE DA DIMETER MFR MANUM STOR SUPPLIE DIM DIMETER MFR MANUMATER SUPPL SUPPLIE DN DOWN MH MANNAUM SW SWITCH DNSP DOWNN MIN MINUTE TO TOLET DNSP DOWNN MN MINUTE TO TOLET DR <	CONF	CONFERENCE	ΙA	LANGUAGE ARTS	SIM	SIMILAR
CONT CONTINUOUS LAV LAVATORY SNV SANITARY CORR CORRIDOR LIH LOBE GE HORIZONTAL SNVD SANITARY CPT CARPET LIMC LINEAR METAL CELING SPC SPECALCA CR CLASSROOM LW LIGHTWEIGHT SQ SQLARE CTAUT CONTROL JOINT M MIRROR SS STANLEASY CUS CUSTONTROL JOINT MS MIRRORSHELF ST STONTSTANDARE CUS CUSTONTROL JOINT MAINT MAINT MAINT STANLEASY D DEEP, DEPTH MANT MAINT MAINT STO STANLARY DI DEEP, DEPTH MAT MAX MAXIMUM STOR STOR STRAUE DIA DIAMETER MAY MAXIMUM STOR STR STRUCTUR DIA DIAMETER MFR MANCALTURER SUP SUPLEME DIA DIAMETER MFR MANANOLE SUP SUPLEME </td <td>CONST</td> <td>CONSTRUCTION</td> <td></td> <td></td> <td>SND</td> <td>SANITARY NAPKIN DISPO</td>	CONST	CONSTRUCTION			SND	SANITARY NAPKIN DISPO
CORR CORRIDOR LH LONG LES HORIZONTAL SW/D SANITARY OPT CARSET LMC LINEAR METAL CELING SPECS SPECIAL CI CR CLASSROM LW LIMERA METAL CELING SPECS SPECIAL CI CT CERAMIC MOSAIC TLE SQ SQUARE SQ SQUARE CT CERAMIC MOSAIC TLE MS MIRROR SS STAINLESS CUS CUSTODIANS UTILITY SHELF MS MIRRORSHELF STC SOUND TS D DEEP, DEPTH MATL MATTL <matcharace< td=""> STL STEL DBL DOUBLE MAX MAXIMUM STOR ASCE SUPPLINE DA DER, DEPTH MATL MATCHARACE STL STEL DBL DOUMARTIN MECH MACHANICAL STR STRUCTUR DA DIMERER MFR MANUMM STOR SUPPLINE DIM DMMETER MRR MANUMACLE SUPPLINE SUPPLINE DNSP D</matcharace<>		CONTINUOUS			SNV	SANITARY NAPKIN VEND
CPT CARPET LINC LINEAR METAL CELLING SP C SPECIAL CO CR CLASSROOM LW LINEAR METAL CELING SPECIAL CO SPECIAL CO CT CERMIC MOSAIC TILE SQ SQUARE SQ SQUARE CTUT CONTROL JOINT M MIRROR SHELF STC SOUND TR CUS CUSTODIANS UTILITY SHELF MS MIRRORSHELF STC SOUND TR DBL DOUBLE MAINT MAINTENANCE STL STEEL DF DRINKING FOUNTAIN MECH MACX MAXIMUM STOR STORAGE DF DRINKING FOUNTAIN MECH MECH MCCHARLA STR STRUCTUR DM DIMENSION MH MANHOLE SUS SUSPENDE DN DOWN MIN MINUTE SUS SUSPENDE DP DAMPPROFING MN MINUTE SUS SUSPENDE DR DOGR MPU MULT-PURPOSE UNIT T&G TORUE AA DR<					SNV/D	SANITARY NAPKIN VEND
CR CLASSROOM LIND LIND LIND SPECS SPECIS SPECIS CT CERAMIC MOSAIC TILE SQ SQUARE SS STAINLESS CUS CUSTODIAN'S UTILITY SHELF M MIRROR'SHELF STC SOUND TR D DEP, DEPTH MAT MATRENANCE STL STEL DBL DOUBLE MAX MAXIMUM STR STRUCTUR DIA DEP, DEPTH MAT MATRENANCE STR STRUCTUR DBL DOUBLE MAX MAXIMUM STR STRUCTUR DIA DEP, DEPTH MAX MAXIMUM STR STRUCTUR DIA DOUBLE MAX MAXIMURER SUPPL SUPPLIEME DIA DOWN MFR MANUFACTURER SUPPL SUPPLIEME DIM DOWN MIN MINUTE TOLET SUPPLIEME SUPPLIEME DNSP DOWNSPOUT MIN MINUTE TAGO TORGED TOLET TOLET						SPECIAL COATING
CT CERAMIC MOSAIC TILE EN DOMAND SQ SQUARE CTRJT CONTROL JOINT M MIRROR SS STAINLESS CUS CUSTODIANS UTILITY SHELF MS MIRROR/SHELF STC SOUND TIL D DEEP, DEPTH MAINT MAINTRANCE STL STEL DBL DOUBLE MAX MAXUMUM STOR STORAGE DF DIRIKING FOUNTAIN MECH MCCHANICAL STR STRUCTUR DIA DIAMETER MR MANUFACTURER SUPPL SUPPL DIM DIMENSION MH MANUFACTURER SUPPL SUPPL DN DOWN MIN MINUTE TOILET ON SW SWITCH DN DOWN MN MINUTE TAG TONGUE AI TOUET DR DOON DOWN MRKBD MASCORY OPENING T TOILET DR DOOR MPU MULTI-PURPOSE UNIT TAG TONGUE AI DR DAMPROOFING MR MIRTO TAG TONGUE AI DR DOOR MPU MULTI-PURPOSE UNIT TAG TONGUE AI DR DOOR MRYBD MASORY OPENING						SPECIFICATIONS
CTR.ITCONTROL JOINTMMIRRORSSSTAINLESSCUSCUSTODIAN'S UTILITY SHELFMINTMAINTE MAINTENANCESTCSOUND TRYDDEEP, DEPTHMATMAINTENANCESTDSTAINDARDDDEEP, DEPTHMATMATERIALSTCSTORDBLDOUBLEMAXMAXIMUMSTORSTORSTORAEDIADOUBLEMARMAXIMUMSTORSTORAESTORDIADIMENSIONMECHMECHANICALSTRSTUCTURDINDOWNMINMINUTESUSPLEMESUSPLEMEDNDOWNMINMINUTETOLETTOLETDRDOORMOMASONRY OPENINGTTOLETDRDOORMPUMULTI-PUROSE UNITT>ONGUE AFDTLDETAILMRKBDMARKERDOADTBTACKBOARDTLDETAILMRKBDMARKERDOADTBTACKBOARDWGDRAWINGMTDMOUNTEDTHRTHRESHOLDTLDETAILMRKBDMARKERDOARDTMTACKBOARDWGDRAWINGNOCMTDMOUNTACTTPOTEACHERFELECELECTRICALMTCNOT IN CONTRACTTPOTEACHERFELECELEVATIONNO.#NOT IN CONTRACTTPOTACKBOARELECELOUPMENTOCON CENTERUONUNINALEQUIPMENTCOLALOPPOSITE HANDVVINYL COMEXISTINGOPPOOPOS				LIGHTWEIGHT		
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FECFIRE EXTINGUISHER CABINETPLSPLASTERWCWALL COVEFHFIRE HYDRANTPNTPAINT (PAINTED FINISH)WDWOODFHCFIRE HOSE CABINETPROJPROJECTWRWASTE REC			PLBG	PLUMBING		
FHFIRE HYDRANTPNTPAINT (PAINTED FINISH)WDWOODFHCFIRE HOSE CABINETPROJPROJECTWRWASTE REGFINALFINALFINALFINALFINALWRWASTE REG						WALL COVERING
FHC FIRE HOSE CABINET PROJ PROJECT WR WASTE REC						
					WR	WASTE RECEPTACLE
	FIN	FINISH			WWF	WELDED WIRE FABRIC
FL FLOOR	FL	FLOOR				

DRAWING SYMBOL AND IDENTIFICATION LEGEND

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	- NORTH ARROW	(100A.1)	DOOR / INTERIOR OPENING ("B" INDICATES WINDOW BLIND LOCATION)	<u>GENERAL</u> A0.0 ARCHITECTU	COVER SHEET, INDEX, SYMBOLS AND LOCATION MAP
÷	- VERTICAL ELEVATION MARK		SPECIFIC NOTE INDICATION NOTE NUMBER	A1.0 A2.1 A3.1	SITE PLAN LIFE SAFETY PLAN ROOF PLAN
— - — (1) -	COLUMN LINE SYMBOL - CENTERLINE OF REFERENCE GRID	102		A4.1 A5.1	DEMOLITION PLAN FLOOR PLAN
	- MATCHLINE	(D) -		<u>STRUCTURAI</u> S1.0	L STRUCTURAL PLANS AND NOTES
	DETAIL SYMBOL - DETAIL NUMBER	(A) -	—— <u>SHELVING TYPE</u>	PLUMBING P0.1	PLUMBING GENERAL NOTES, SCHEDULES AND LEGEND
A11.1	- DRAWING NUMBER	1 -	INSTRUCTIONAL AIDS TYPE	P0.2 P1.1	PLUMBING SPECIFICATIONS PLUMBING FLOOR PLANS AND DETAILS
	EXTERIOR ELEVATION SYMBOL INDICATES ELEVATION TO BE VIEWED DETAIL NUMBER	M.1 -	WALL TYPE	MECHANICAL M0.1 M0.2	HVAC GENERAL NOTES AND LEGEND HVAC SPECIFICATIONS
A9.1	- DRAWING NUMBER	A		M1.1	HVAC FLOOR PLANS, DETAILS AND SCHEDULES
1 A10.1	SECTION SYMBOL - DETAIL NUMBER - DRAWING NUMBER	A -	TOILET ACCESSORY TYPE	<u>ELECTRICAL</u> E0.1 E0.2 E1.1	ELECTRICAL LEGEND AND NOTES LUMINAIRE SCHEDULE AND CUT SHEETS LIGHTING PLAN
	- SECTION "CUT LINE" INTERIOR ELEVATION SYMBOL	1 -	<u>GLAZING TYPE</u>	E2.1 E3.0 E4.0	ELECTRICAL RENOVATION PLAN ELECTRICAL RISER DIAGRAM ELECTRICAL DETAILS
	- INDICATES ELEVATION TO BE VIEWED - DETAIL NUMBER	23	KITCHEN EQUIPMENT TYPE		
13.1	- DRAWING NUMBER DETAIL INDICATION		EQUIPMENT NUMBER		
1 A11.1	- DETAIL NUMBER - DRAWING NUMBER	800	LIFE SAFETY OCCUPANT CAPACITY		
	- DETAIL AREA	+100'-0"	SPOT ELEVATION		

NSER NSER /WASTE

ETE PIPE

BER TILE

Sposal Indor Indor/Disposal

N CLASS (RATING)

OFFICE

NSER HERWISE NOTED)

NOTED

E

TAMPA SPORTS AUTHORITY BABE ZAHARIAS GRILL RENOVATION

PRICING 03/19/2019

ARCHITECT

HEPNER ARCHITECTS, INC.

601 SOUTH BOULEVARD, SUITE 101 TAMPA, FLORIDA 33606 813-229-0614

STRUCTURAL ENGINEER

DECAROWILLSON STRUCTURAL ENGINEERS

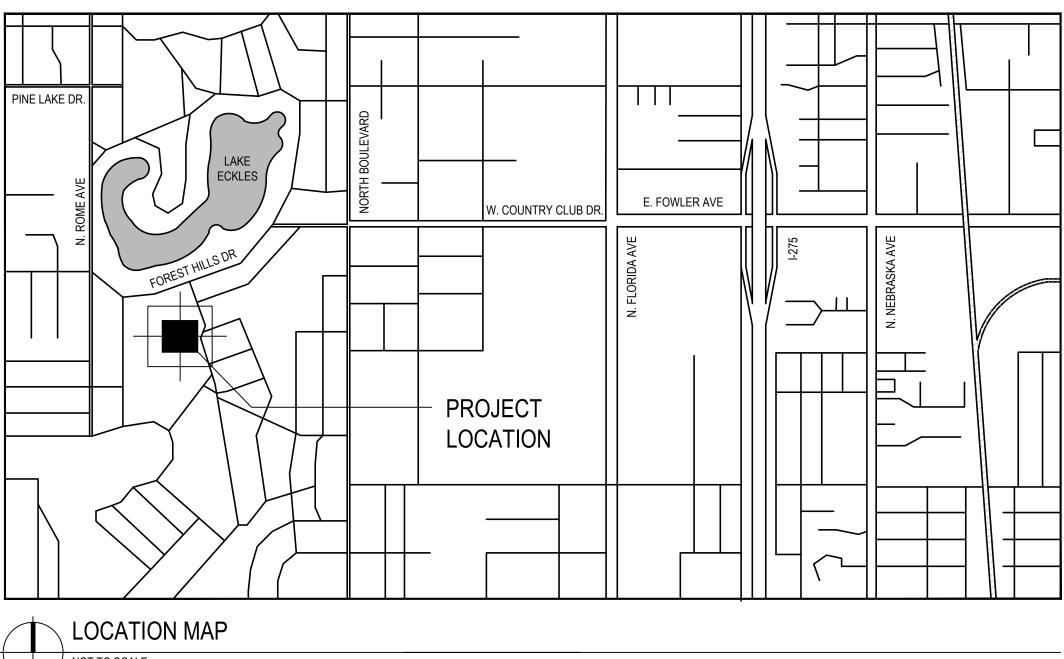
1725 E. 5TH AVENUE TAMPA, FLORIDA 33605 813-248-8080

MEP ENGINEER & FIRE PROTECTION

ANSTON-GREENLEES, INC.

1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919

INDEX OF DRAWINGS



NOT TO SCALE

HEPNER ARCHITECTS

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STRUCTURAL ENGINEER DECAROWILLSON STRUCTURAL ENGINEERS 1725 E. 5TH AVENUE TAMPA, FLORIDA 33605 813-248-8080 CERT AUTH NO. 25896

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER ANSTON-GREENLEES, INC. 1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919 CERT AUTH NO. 6093

JOHN S KIDWELL, AIA 0016305



11412 N. FOREST HILLS DR TAMPA, FLORIDA 33612

TO THE BEST OF THE ARCHITECT'S K THE PLANS AND SPECIFICATIONS AR AND COMPLY WITH THE FLORIDA BU	E COMPLETE
PROJECT NO.	3172
DISTRIBUTION	DATE
PRICING	03/19/2019

COVER SHEET, INDEX, SYMBOLS, LOCATION MAP

A0.0

LIFE SA

" ()
20M
●FE
S

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LIFE SAFETY LEGEND

(E) DENOTES EXISTING COMPONENT

PRIMARY EGRESS

EXIT WIDTH IN INCHES (MAXIMUM OCCUPANT LOAD FOR EXIT WIDTH) RATED OPENING, IN MINUTES (M) OR HOURS (HR) FIRE EXTINGUISHER

EXIT LIGHT

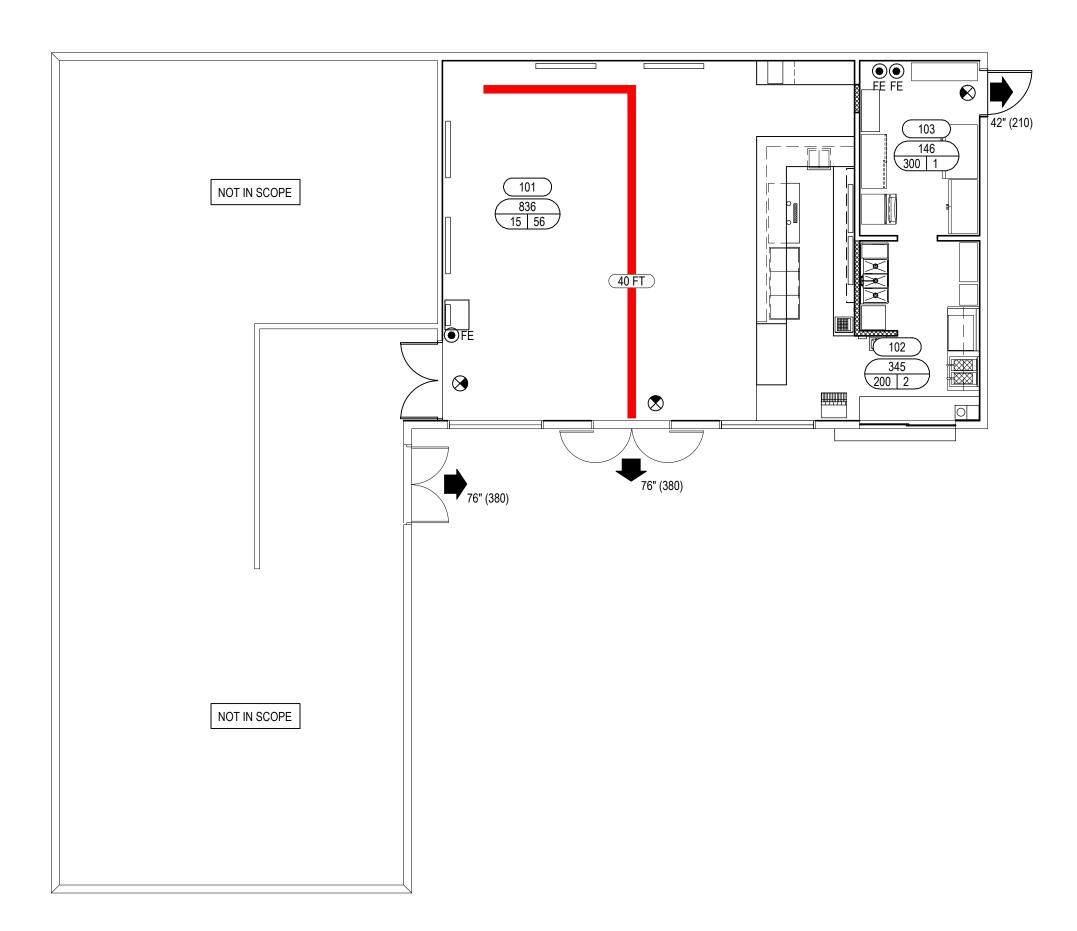
SMOKE DETECTOR

ROOM AREA

AREA PER OCCUPANT

TRAVEL DISTANCE TO EXIT

NOT IN SCOPE





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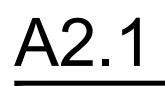
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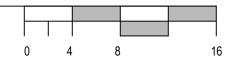


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LIFE SAFETY PLAN



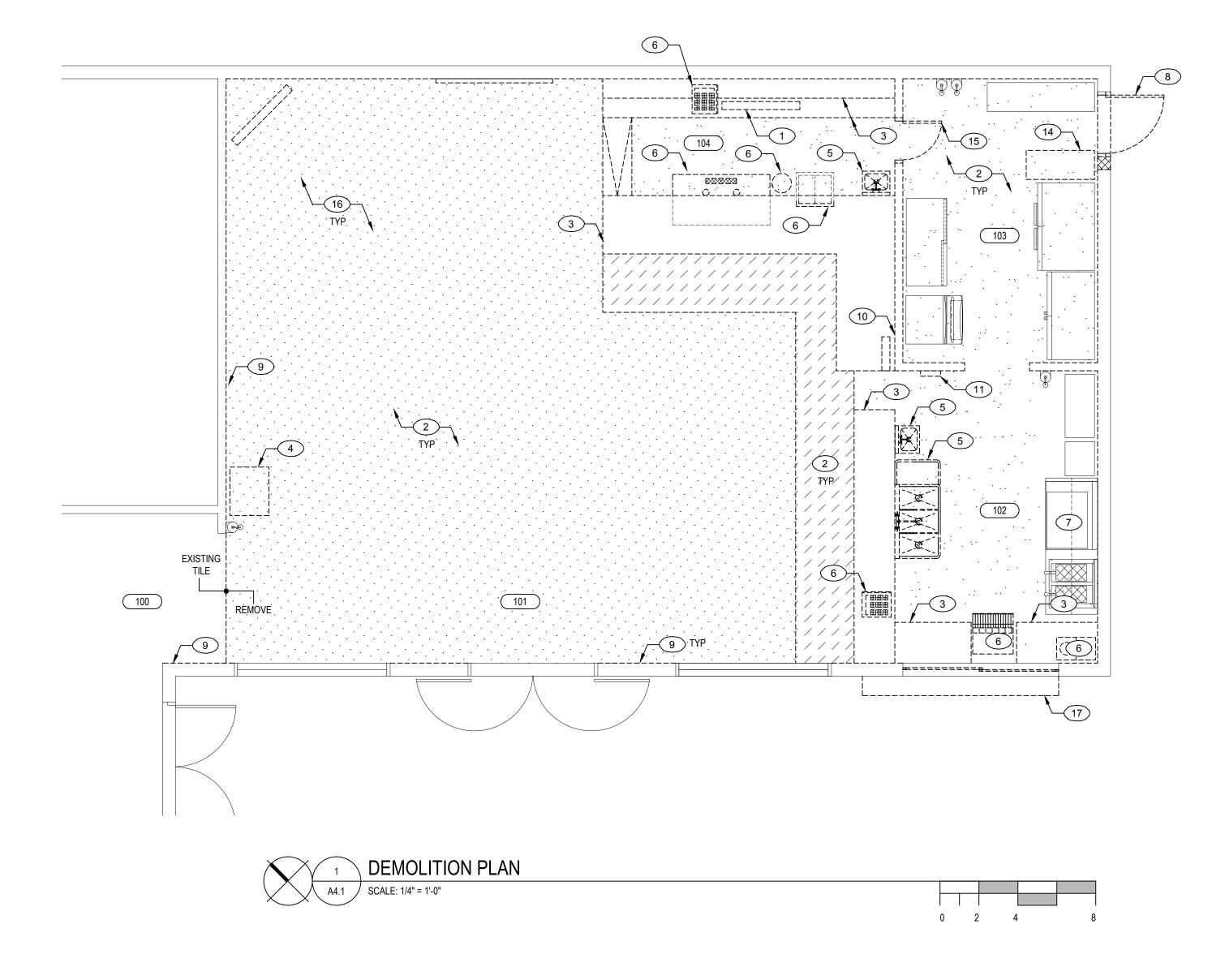


ROOM LEGEND

PACE	SPACE NAM
00 01 02 03 04	LOBBY DINING ARE/ KITCHEN STORAGE BAR

DEMOLITION LEGEND

	EXISTING WALL TO REMAIN
	REMOVE EXISTING WALL
	REMOVE EXISTING GYPSUM WALL BOARD AND WOOD WAINSCOT AS REQUIRED, WALL STUDS TO REMAIN
	REMOVE EXISTING DOOR AND FRAME
	REMOVE EXISTING WINDOW AND FRAME
	REMOVE EXISTING CARPET AND ADHESIVES
	REMOVE EXISTING CERAMIC TILE AND ADHESIVES
	REMOVE EXISTING COATING
$\begin{array}{c} { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ } { \ }$	REMOVE EXISTING AIR DEVICE
	REMOVE EXISTING LIGHT
	REMOVE EXISTING GYPSUM WALLBOARD CEILING



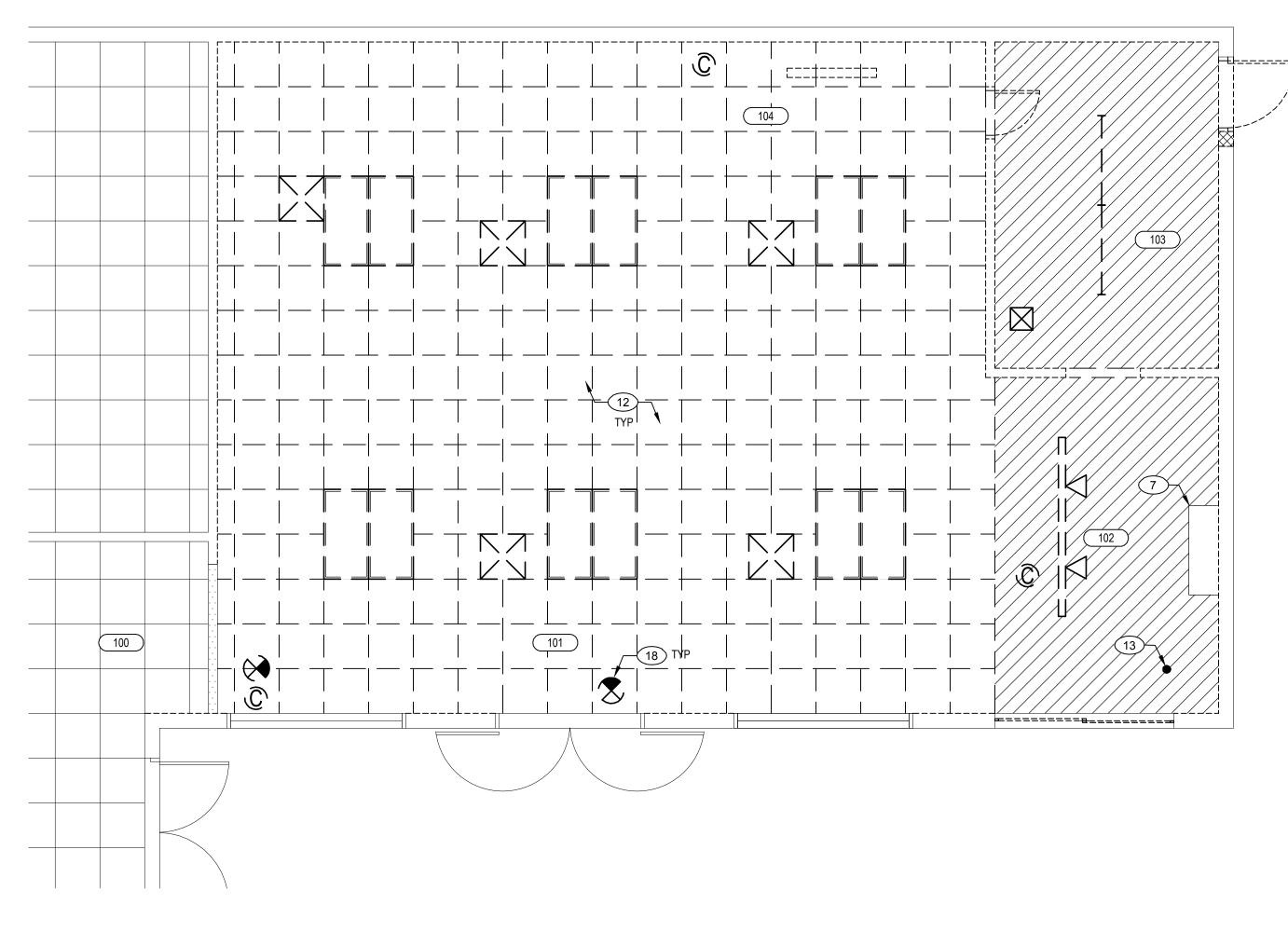
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DEMOLITION GENERAL NOTES

- 1. GENERAL CONTRACTOR TO COORDINATE ALL DEMOLITION WITH CONTRACT DOCUMENTS FOR NEW CONSTRUCTION
- 2. REMOVE AND TERMINATE ALL ELECTRICAL DEVICES, CONDUIT, FIXTURES, FINISHES, WINDOW TREATMENT, CASEWORK, EQUIPMENT, PLUMBING, HVAC EQUIPMENT, DUCTWORK, ETC. AS NECESSARY FOR COMPLETION OF NEW WORK. REMOVE ALL ABANDONED UTILITIES COMPLETELY.
- 3. CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW WORK. USE CLEANED, STORED MATERIAL AS NECESSARY.
- 4. OTHER DEMOLITION MAY BE REQUIRED FOR INSTALLATION OF NEW WORK AS SHOWN IN THE DOCUMENTS AND SHALL BE INCLUDED EVEN THOUGH NOT SHOWN.
- 5. DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE, EXCEPT FOR MATERIAL THE OWNER WISHES TO REMAIN. PROVIDE THE OWNER WITH THE OPPORTUNITY TO TAG EXISTING ITEMS THEY WISH TO SAVE.
- 6. REFER TO STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION
- 7. ALL SPEAKERS, SECURITY, INTERCOM, TV, FIRE ALARM, AND OTHER SUCH DEVICES SHALL BE REINSTALLED.

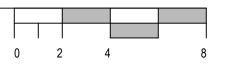
DEMOLITION PLAN SPECIFIC NOTES

- (1) REMOVE, SAVE AND PROTECT EXISTING TV AND SUPPORT ASSEMBLY, REINSTALL AS INDICATED ON FLOOR PLAN
- 2 REMOVE EXISTING FLOORING AND ADHESIVES
- (3) REMOVE EXISTING CASEWORK
- (4) RELOCATE EXISTING MOVABLE CASEWORK, COORDINATE NEW LOCATION WITH OWNER
- (5) REMOVE, SAVE AND PROTECT EXISTING SINK ASSEMBLY, RELOCATE EXISTING PLUMBING LINES AS REQUIRED TO ACCOMMODATE NEW FIXTURE LOCATIONS, REFER TO PLUMBING
- 6 REMOVE, SAVE AND PROTECT EXISTING EQUIPMENT, CLEAN PRIOR TO INSTALLATION
- (7) EXISTING KITCHEN HOOD AND GRILL ASSEMBLY TO REMAIN, PROTECT DURING CONSTRUCTION
- (8) REMOVE EXISTING DOOR, FRAME AND PORTION OF EXTERIOR WALL AS NECESSARY FOR INSTALLATION OF NEW DOOR, REFER TO STRUCTURAL AND ELECTRICAL
- 9 REMOVE EXISTING GYPSUM WALL BOARD, WOOD BASE AND WOOD PANELING, WALL FRAMING TO REMAIN
- (10) REMOVE, SAVE AND PROTECT ELECTRONIC AD SCREEN, REFER TO FLOOR PLAN FOR NEW LOCATION
- (11) REMOVE, SAVE AND PROTECT EXISTING PHONE, CLEAN PRIOR TO REINSTALLATION
- (12) REMOVE EXISTING LAY-IN CEILING, LIGHTS, AIR DEVICES, SPEAKERS AND OTHER DEVICES. SAVE DEVICES FOR REUSE AS
- REQUIRED, REFER TO ELECTRICAL (13) TERMINATE AND CAP PIPE STUB-OUT TO ABOVE CEILING
- (14) RELOCATE WIRE SHELVING TO LOCATION INDICATED ON FLOOR PLAN
- (15) REMOVE EXISTING DOOR AND FRAME ASSEMBLY
- (16) REMOVE EXISTING WALL MOUNTED ITEMS, COORDINATE WITH
- OWNER (17) REMOVE EXISTING WINDOW ASSEMBLY AND ASSOCIATED
- LAMINATE COUNTERTOP (18) REMOVE, SAVE AND PROTECT EXISTING EGRESS SIGN FOR
- REINSTALLATION, REFER TO ELECTRICAL (19) REMOVE, SAVE AND PROTECT EXISTING EGRESS SIGN FOR REINSTALLATION, REFER TO ELECTRICAL



DEMOLITION REFLECTED CEILING PLAN

A4.1 SCALE: 1/4" = 1'-0"

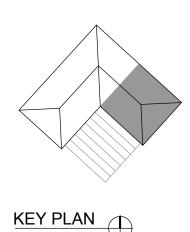


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MECHANICAL/ELECTRICAL/PLUMBING ENGINEER ANSTON-GREENLEES, INC. 1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919 CERT AUTH NO. 6093



JOHN S KIDWELL, AIA 0016305



11412 N. FOREST HILLS DR TAMPA, FLORIDA 33612

TO THE BEST OF THE ARCHITECT'S I THE PLANS AND SPECIFICATIONS AF AND COMPLY WITH THE FLORIDA BU	RE COMPLETE
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PRICING	03/19/2019

DEMOLITION PLAN



FLOOR PLAN GENERAL NOTES

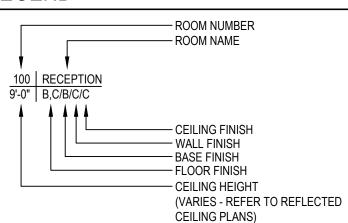
- 1. FIELD VERIFY ALL DIMENSIONS ASSOCIATED WITH EXISTING CONSTRUCTION. 2. CONTRACTOR SHALL CHECK EXISTING FLOOR SLABS FOR LEVEL AFTER COMPLETION OF DEMOLITION WORK AND NOTIFY THE ARCHITECT OF ANY DEVIATION FROM SPECIFIED TOLERANCES. CORRECTIVE WORK SHALL BE
- 3. AT ALL WALL MOUNTED EQUIPMENT, PROVIDE WOOD BLOCKING IN ACCORDANCE WITH DETAIL 3/A11.1.

ACCOMPLISHED PRIOR TO INSTATING NEW CONSTRUCTION.

FLOOR PLAN SPECIFIC NOTES

- (1) REPLACE WOOD BASE, TYPICAL ENTIRE BUILDING
- 2 EXISTING EQUIPMENT TO REMAIN. REMOVE, PROTECT, AND RE-INSTALL AS REQUIRED FOR INSTALLATION OF NEW QUARRY TILE
- 3 PATCH CEMENTIOUS SIDING AS REQUIRED FOR INSTALLATION OF NEW
- STAINLESS STEEL COUNTER

ROOM LEGEND



FINISH SCHEDULE

L											
ſ		FLOOR	BASE	WALLS	CEILING						
	A	PORCELAIN TILE	WOOD (MATCH EXISTING)	PAINTED GWB	ACOUSTICAL LAY-IN						
	В	QUARRY TILE	QUARRY TILE	PAINTED WOOD PANELING	PAINTED GWB						
	С	EXISTING	EXISTING	EXISTING	EXISTING						

ALTERNATES

ALTERNATE 1 BASE BID: REPAIR AND PAINT DAMAGED WOOD SIDING AND WOOD BASE AT LOBBY, SPORTS STORE, AND AS REQUIRED THROUGHOUT BUILDING. ALTERNATE: PAINT INTERIOR WOOD SIDING, CEILINGS AND DOORS AT THE LOBBY AND SPORTS STORE.

ALTERNATE 2

BASE BID: REPAIR AND PAINT DAMAGED WOOD SIDING AND WOOD BASE AT LOBBY, SPORTS STORE, AND AS REQUIRED THROUGHOUT BUILDING. ALTERNATE: REMOVE EXISTING GYPSUM WALLBOARD, WOOD SIDING AND WOOD BASE. INSTALL NEW GYPSUM WALL BOARD

ALTERNATE 3

BASE BID: CARPET TO REMAIN AT LOBBY. CERAMIC TILE TO REMAIN AT SPORTS STORE. ALTERNATE: REMOVE EXISTING CARPETING AT SPORTS STORE AND EXISTING CERAMIC TILE AT LOBBY. REPLACE WITH PORCELAIN TILE AND WOOD BASE TO MATCH NEW FLOORING AT DINING.

ALTERNATE 4

BASE BID: PROVIDE QUARTZ COUNTERTOPS AT CASEWORK AS INDICATED ON DOCUMENTS ON SHEETS A13.1 AND A13.2. ALTERNATE: DELETE THE REQUIREMENT FOR QUARTZ COUNTERTOPS AND IN LIEU THEREOF PROVIDE CORIAN SOLID SURFACE COUNTERTOPS.

ALTERNATE 5 BASE BID: PROVIDE QUARTZ COUNTERTOPS AT CASEWORK AS INDICATED ON DOCUMENTS ON SHEETS A13.1 AND A13.2.

WALL TYPE LEGEND

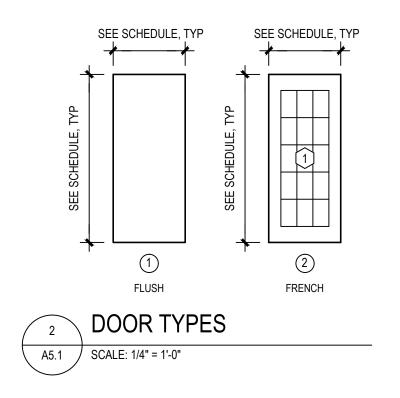
XXXXXXXXX NEW METAL STUD PARTITION EXISTING WALL TO REMAIN AREA NOT IN SCOPE

EQUIPMENT SCHEDULE									
STATUS :A =FURNISHED BY CONTRACTOR, INSTALLED BY CONTRACTORB =FURNISHED BY OWNER, INSTALLED BY CONTRACTORC =FURNISHED BY OWNER, INSTALLED BY OWNERD =EXISTING EQUIPMENT TO BE RELOCATED BY CONTRACTOR									
ITEM ITEM EQUIPMENT STATUS ITEM ITEM EQUIPMENT STATU NO.									
			<u>_9</u>	WIRE SHELVING	D				
2	COFFEE MAKER	D	10	AD TV (RELOCATED)	В				
3	POINT OF SALE	D		LCD TV	В				
4	SCULLERY SINK	D	12	UNDER-COUNTER REFRIGERATOR, MODEL: TURBO AIR MUR-72 19 CU. FT.	В				
$\frac{5}{2}$	UNDER-COUNTER ICE BIN		13	COUNTERTOP WATER DISPENSER,	В				
$\boxed{6}$	KEG COOLER D MODEL: DSBCF180K BLUBAR COUNTERTOP AS MANUFACTURED BY								
	HAND SINK D ELKAY MANUFACTURING COMPANY								
8	24" X 120" S.S. TABLE	В	/14	DISHWASHER, MODEL: KDTE334GPS AS MANUFACTURED BY KITCHENAID	В				

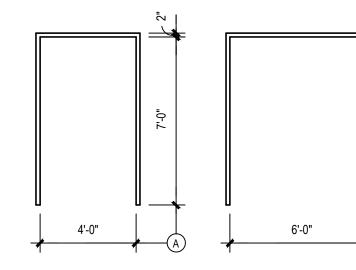
FLORIDA PRODUCT APPROVAL APPROVED PRODUCTS LIST

FLORIDA BUILDING CODE VERSION - 2017								
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL NUMBER	APPROVAL OR VALIDATION DATE				
EXTERIOR DOORS	SWINGING EXTERIOR DOOR ASSEMBLIES	QUALITY ENGINEERED PRODUCTS	FL 3294.1	01/31/2018				
WINDOW	HORIZONTAL SLIDER	KAWNEER COMPANY, INC	FL 16178-R2	10/03/2017				

DOOR, FRAME AND HARDWARE SCHEDULE													
LOCATION				FRAMES				DOORS					
OPENING					DETAILS			MATERIAL			HDW	REMARKS	
NUMBER	FROM	ТО	TYPE	MATERIAL	HEAD	SILL	JAMB	TYPE	YPE MATERIAL	WIDTH	HEIGHT	SET	
100	LOBBY TO DINING		В	НМ	7/A11.1	-	7/A11.1 SIM	2	WOOD	3'-0" (PR)	7'-0"	01	
103	EXTERIOR TO STOP	RAGE	A	НМ	6/A11.1	-	6/A11.1 SIM	1	НМ	4'-0"	7'-0"	02	



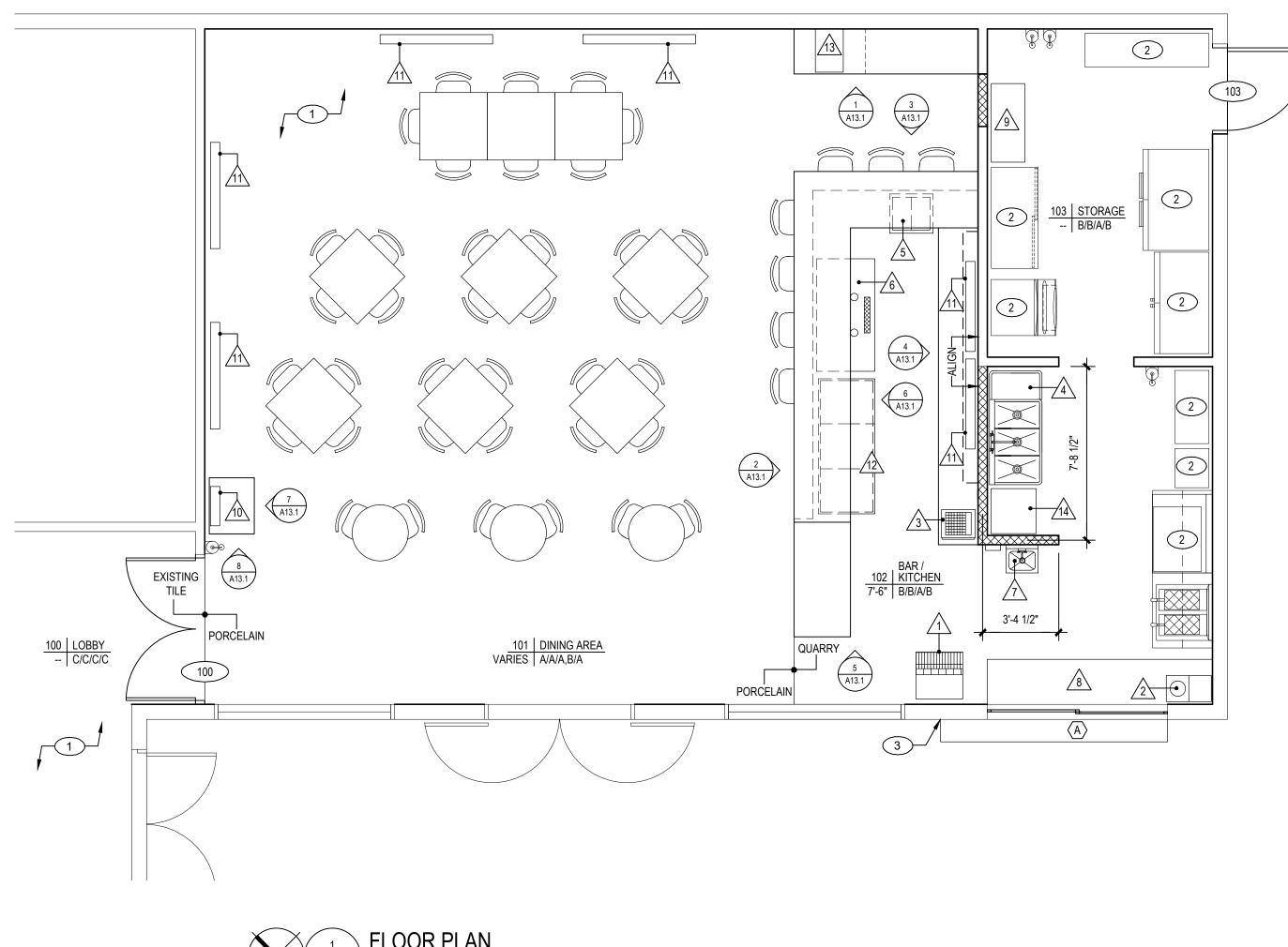
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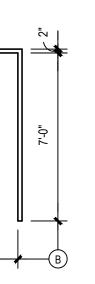
HOLLOW METAL FRAME TYPES A5.1 / SCALE: 1/4" = 1'-0"

NOTE: ALL FRAME MEMBERS ARE 2" UNLESS OTHERWISE NOTED.

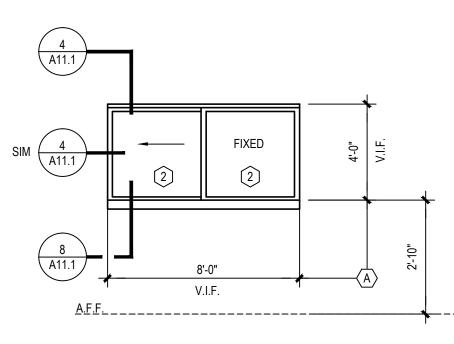
ALTERNATE: DELETE THE REQUIREMENT FOR QUARTZ COUNTERTOPS AND IN LIEU THEREOF PROVIDE LAMINATE COUNTERTOPS.



FLOOR PLAN A5.1 / SCALE: 1/4" = 1'-0"



GLASS SCHEDULE				
GLASS TYPE DESCRIPTION				
1 1/4" CLEAR TEMPERED				
2	9/16" IMPACT RESISTANT GLASS			





T1: PORCELAIN TILE SIZE: 6X36 & 9X36 COLOR : TO BE DETERMINED

T2: QUARRY TILE SIZE: 6X6 COLOR : ASHEN GRAY

PL1: PLASTIC LAMINATE MFTR: WILSONART HP LAMINATE COLOR: TO BE DETERMINED FINISH: PREMIUM AEON MATCHING 3MM PVC EDGE BANDING

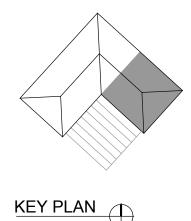
PL2: PLASTIC LAMINATE MFTR: WILSONART HP LAMINATE COLOR: TO BE DETERMINED FINISH: PREMIUM AEON MATCHING 3MM PVC EDGE BANDING

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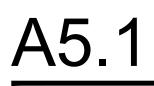
JOHN S KIDWELL, AIA 0016305



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TO THE BEST OF THE ARCHITECT'S KNOWLEDGE THE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE		
PROJECT NO.	3172	
DISTRIBUTION	DATE	
PRICING	03/19/2019	

FLOOR PLAN





FINISH SCHEDULE (ALL INTERIOR FINISHES TO BE CLASS A, TYPICAL)

C1: COUNTERTOP MFTR: CORIAN QUARTZ COLOR : TO BE DETERMINED

C2: COUNTERTOP MFTR: CORIAN QUARTZ COLOR : TO BE DETERMINED

CONFIRM ALL FINISHES WITH OWNER PRIOR TO ORDERING

REFLECTED CEILING PLAN GENERAL NOTES

- OTHERWISE NOTED.
- REQUIRED.

REFLECTED CEILING PLAN SPECIFIC NOTES

\bigcirc	NEW ACOUS
2	NEW GYPSU
3	SECURITY C
3	

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© Ø

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1. ITEMS LOCATED IN ACOUSTICAL CEILINGS ARE CENTERED IN CEILING PANELS. 2. ITEMS LOCATED IN HARD CEILINGS ARE CENTERED AS SHOWN, UNLESS

3. PATCH AND REPAIR ALL EXTERIOR SOFFITS AND INTERIOR HARD CEILINGS AS

ISTICAL CEILING SYSTEM AT 9'-0" AFF

SUM WALL BOARD CEILING AT 8'-0" AFF OR AS TIGHT AS POSSIBLE TO DE OF STRUCTURE CAMERA, COORDINATE LOCATION WITH OWNER

CEILING PLAN SYMBOL LEGEND

SOUND SYSTEM SPEAKER PAGING SPEAKER

AIR INTAKE OR OUTLET

LIGHT FIXTURE

MOTION DETECTOR

CAMERA SMOKE OR HEAT DETECTOR

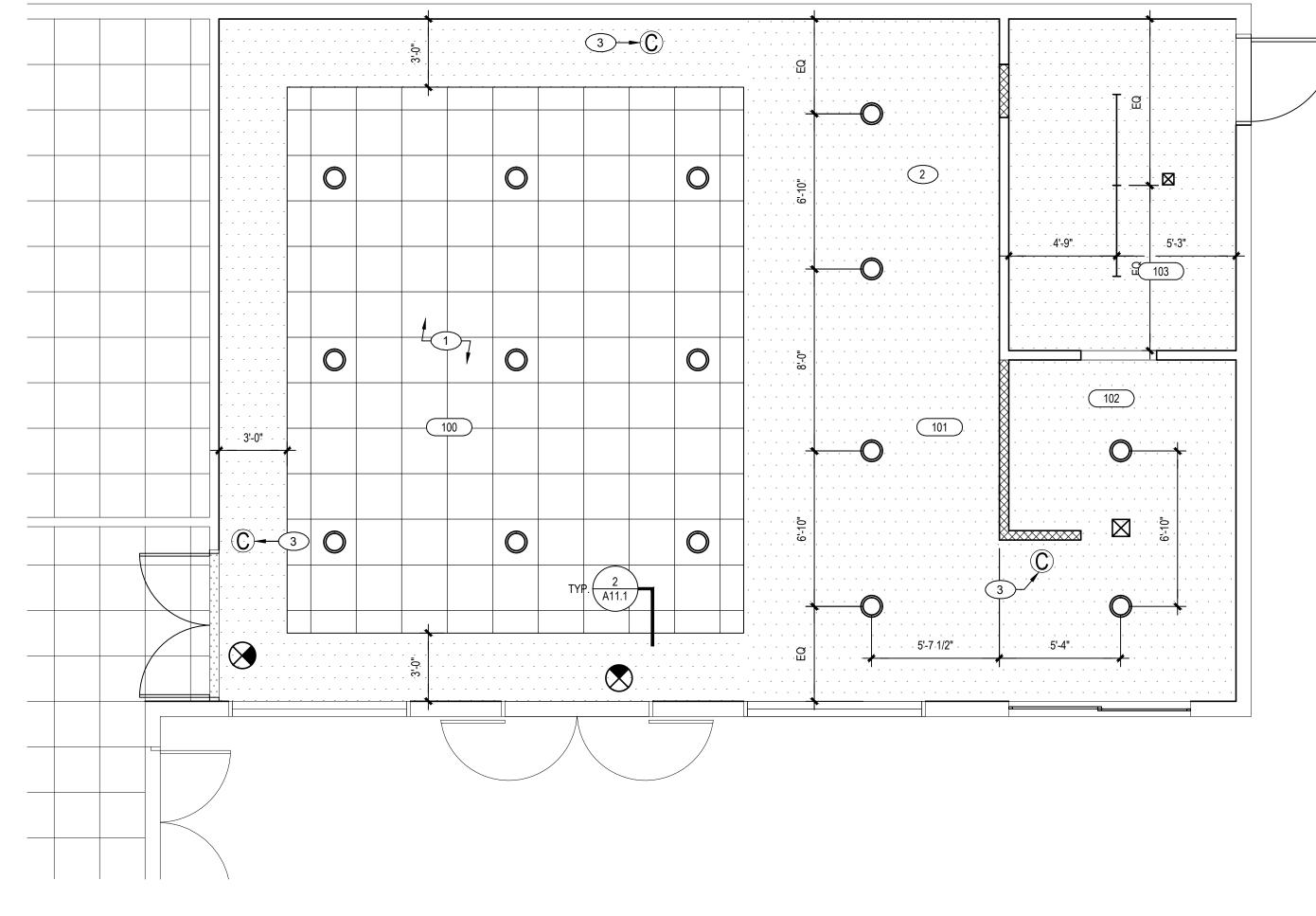
EXIT LIGHT

ACCESS PANEL

SUSPENDED ACOUSTICAL CEILING

GWB CEILING

WALLS TO DECK OR STRUCTURE. PROVIDE BATT INSULATION AT ALL STUD WALLS TO DECK OR STRUCTURE. REFER TO LIFE SAFETY PLANS FOR RATED WALLS.





ROOM LEGEND

SPACE NAME DINING AREA BAR KITCHEN STORAGE ROOM

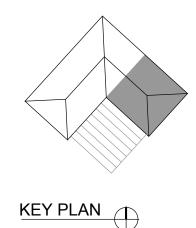
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STRUCTURAL ENGINEER DECAROWILLSON STRUCTURAL ENGINEERS 1725 E. 5TH AVENUE TAMPA, FLORIDA 33605 813-248-8080 CERT AUTH NO. 25896

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER ANSTON-GREENLEES, INC. 1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919 CERT AUTH NO. 6093



JOHN S KIDWELL, AIA 0016305



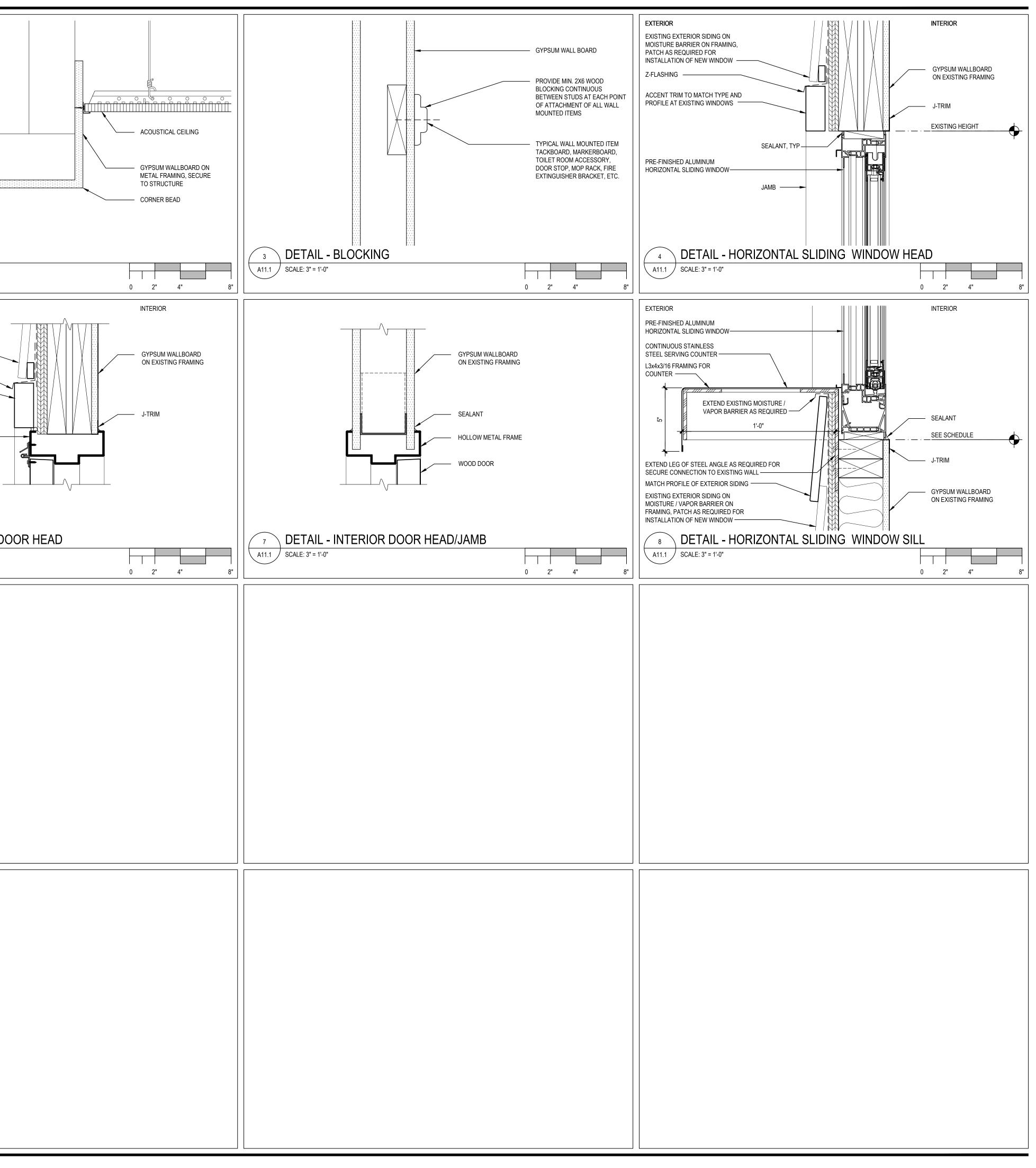
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PROJECT NO.	3172
DISTRIBUTION	DATE
PRICING	03/19/2019

REFLECTED CEILING PLAN



1 NOT USED A11.1 SCALE: 3" = 1'-0"	0 2" 4" 8"	2 DETAIL - SOFFIT A11.1 SCALE: 3" = 1'-0"
		EXTERIOR EXISTING EXTERIOR SIDING ON MOISTURE BARRIER ON FRAMING, PATCH AS REQUIRED FOR INSTALLATION OF NEW DOOR Z-FLASHING ACCENT TRIM TO MATCH TYPE AND PROFILE AT EXISTING DOORS PAINTED HOLLOW METAL DOOR MECHANICALLY FASTENED TO FRAMING
5 NOT USED A11.1 SCALE: 3" = 1'-0"	0 2" 4" 8"	6 A11.1 SCALE: 3" = 1'-0"
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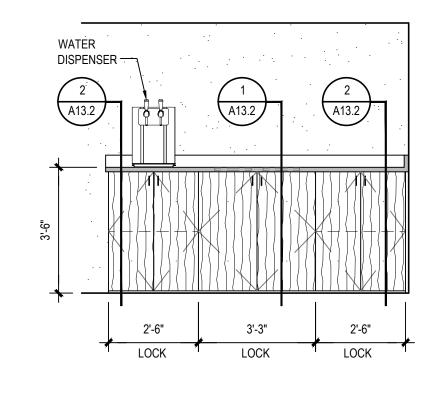
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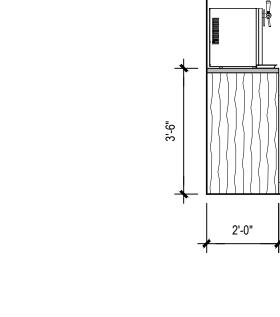
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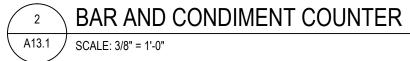
DETAILS

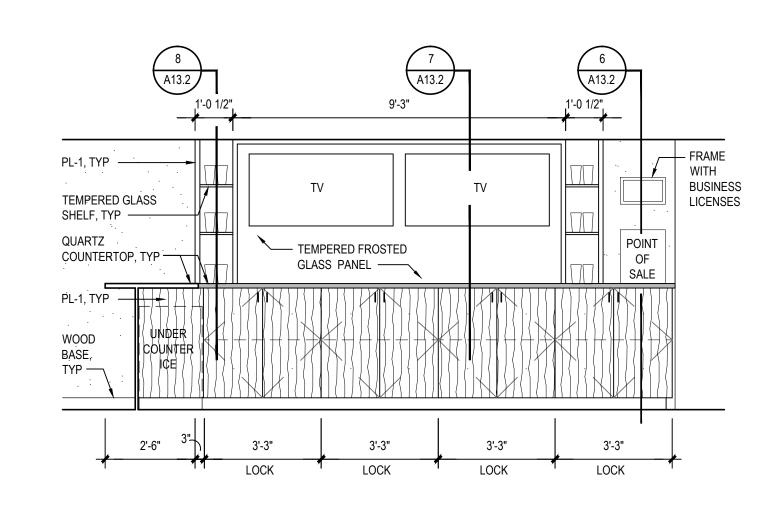
<u>A11.1</u>



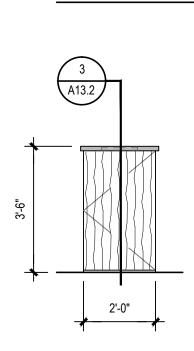


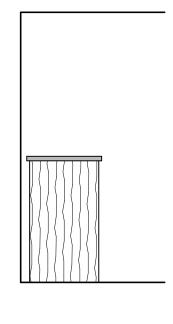
A13.1 / SCALE: 3/8" = 1'-0"





4 BAR A13.1 SCALE: 3/8" = 1'-0"

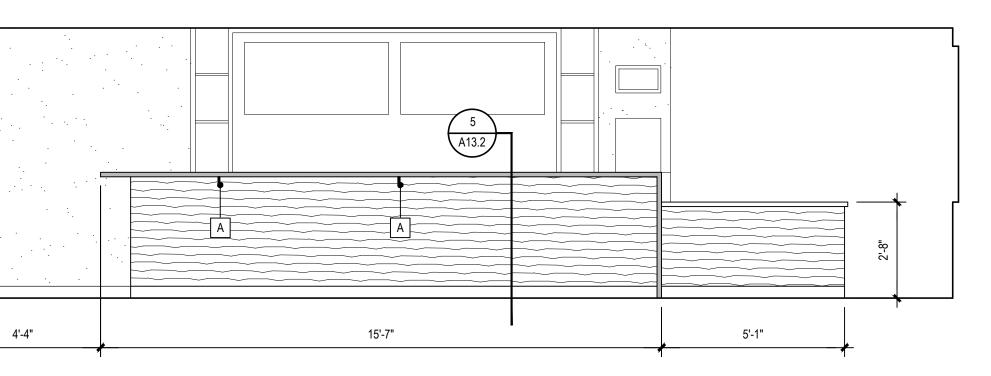




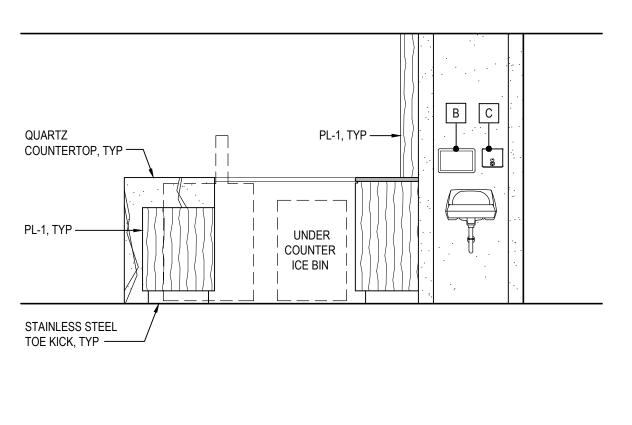


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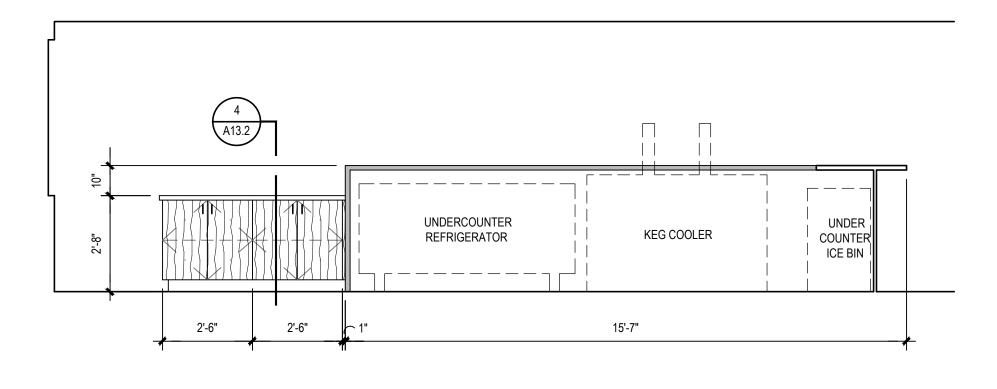




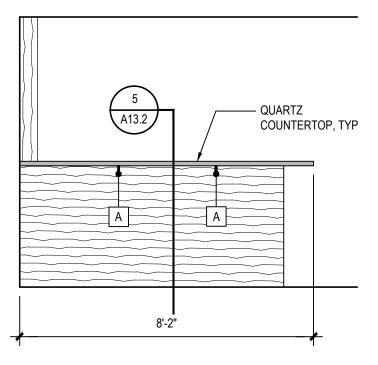


⁵ BAR

A13.1 SCALE: 3/8" = 1'-0"







TOILET ACCESSORY SCHEDULE

TYPE ITEM

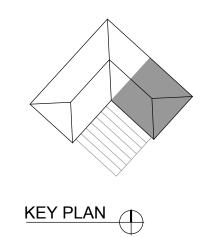
- A BAG HOOK
- B PAPER TOWEL DISPENSER
- C SOAP DISPENSER



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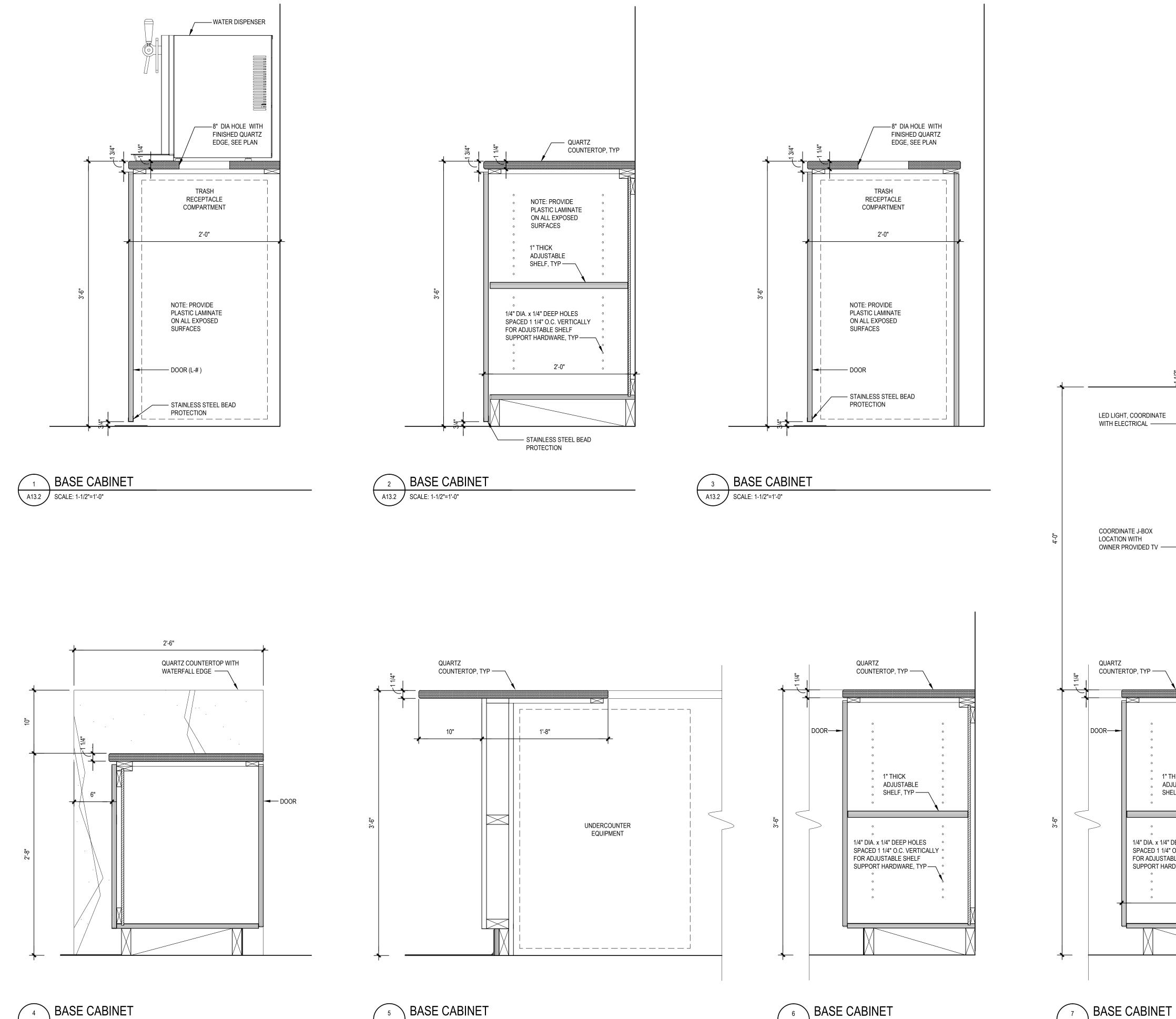


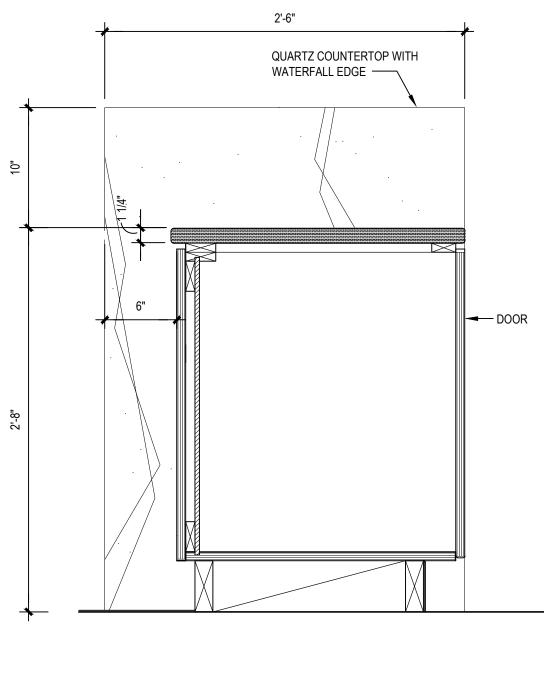
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INTERIOR ELEVATIONS

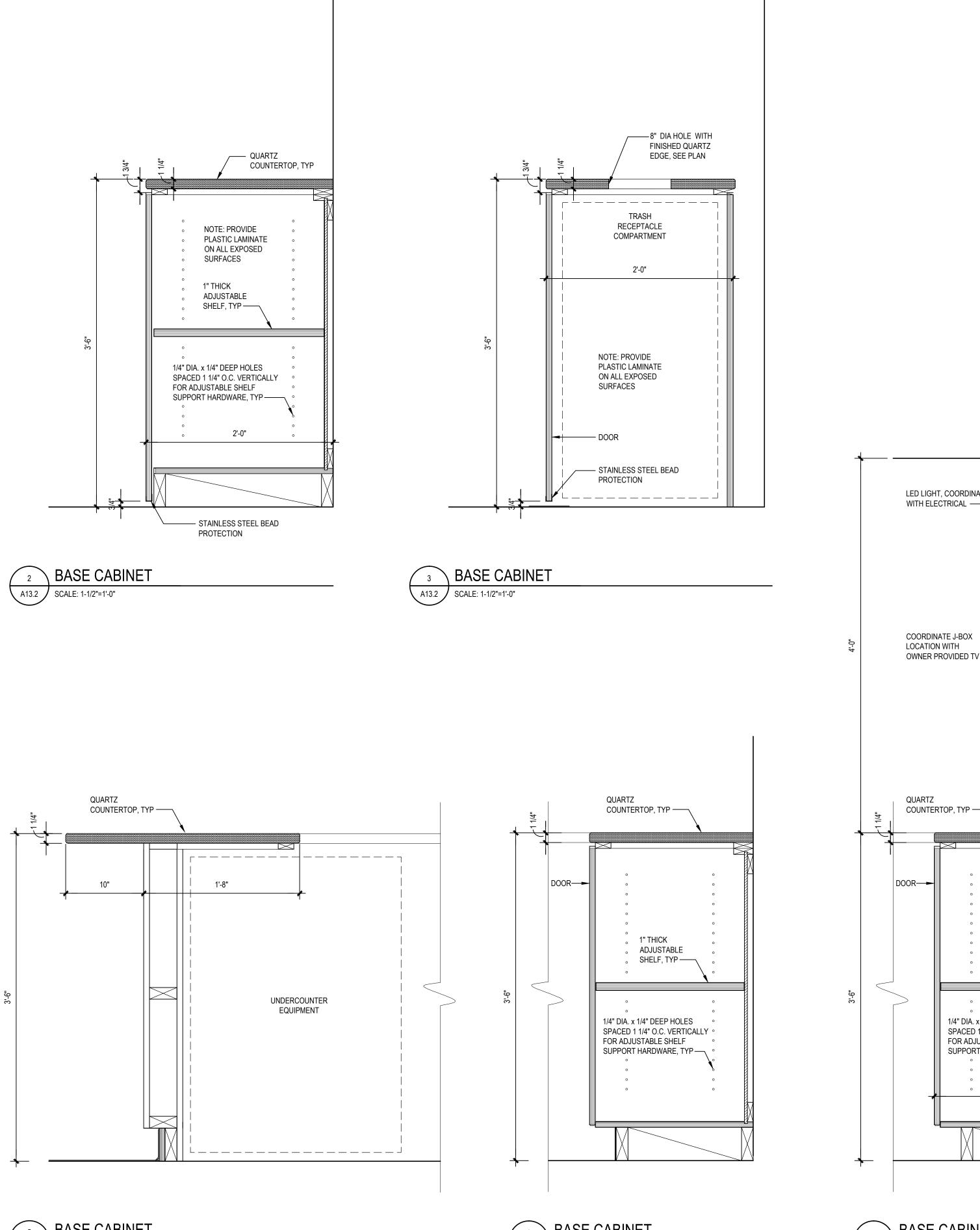






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A13.2 SCALE: 1-1/2"=1'-0"



A13.2 SCALE: 1-1/2"=1'-0"



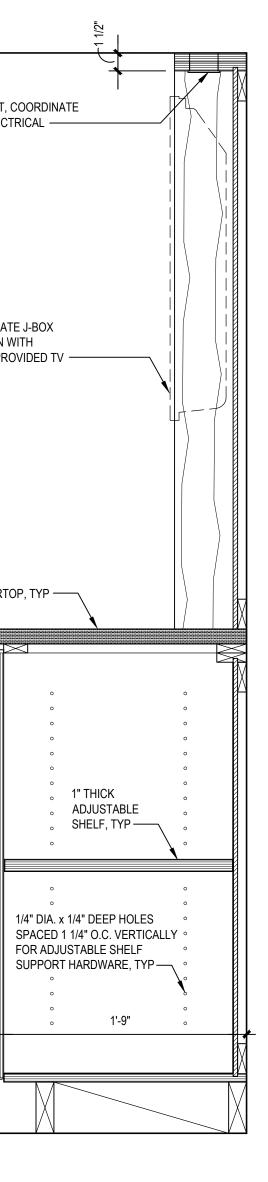
A13.2 SCALE: 1-1/2"=1'-0"

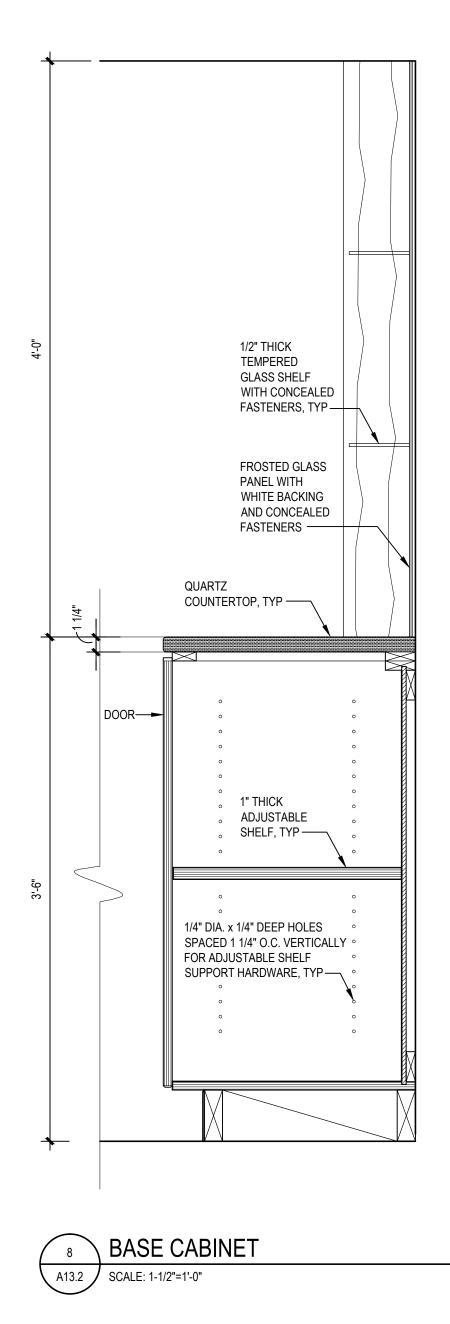
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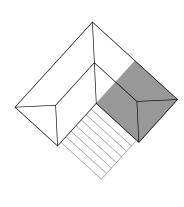
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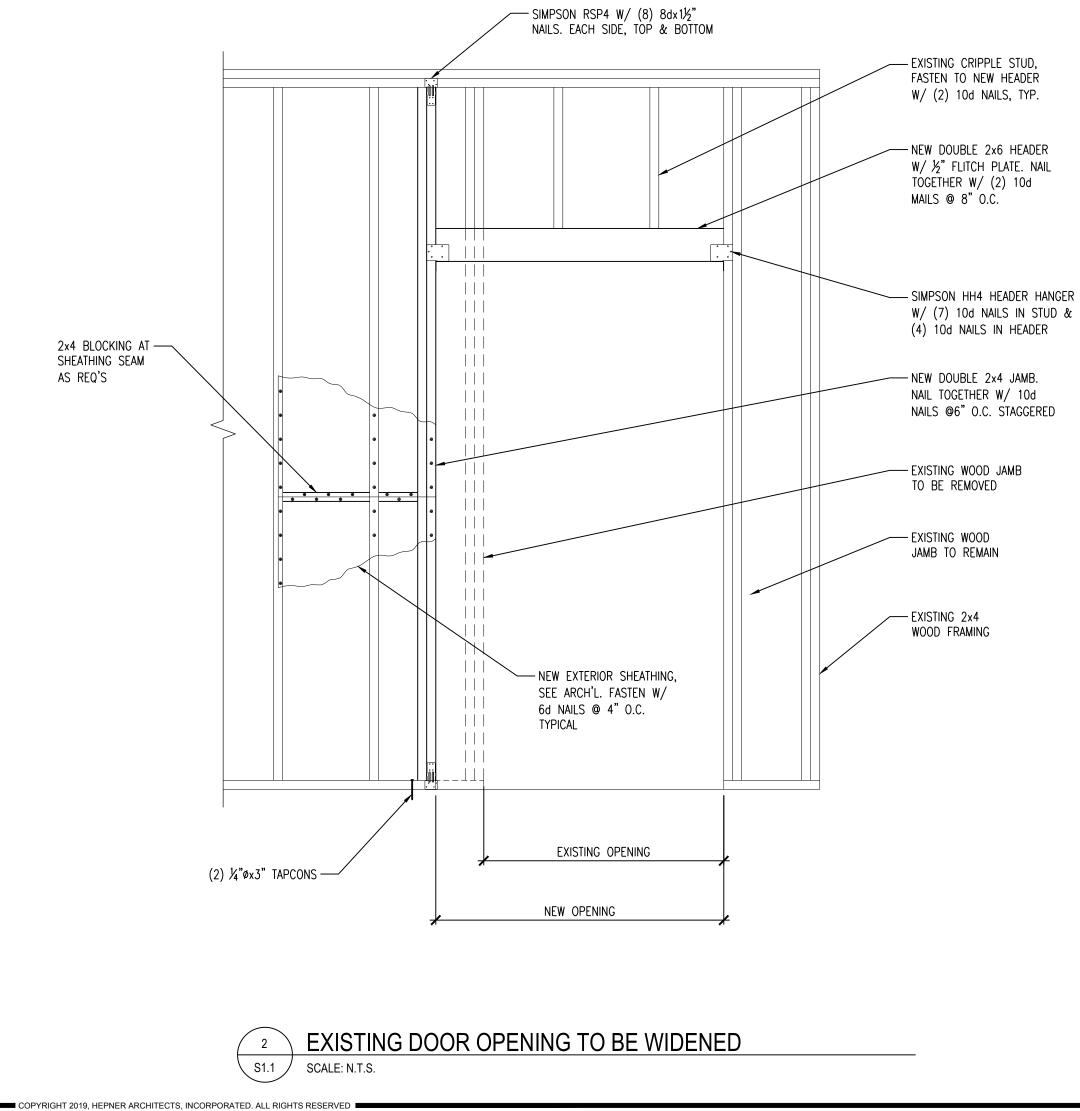


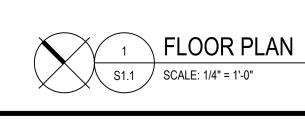
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CASEWORK DETAILS







/////

EXISTING CRIPPLE STUD, FASTEN TO NEW HEADER W/ (2) 10d NAILS, TYP.

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CODES AND SPECIFICATIONS

A. The Florida Building Code 6thEdition, 2017.

<u>DESIGN LOADS</u>

A. Wind Loads

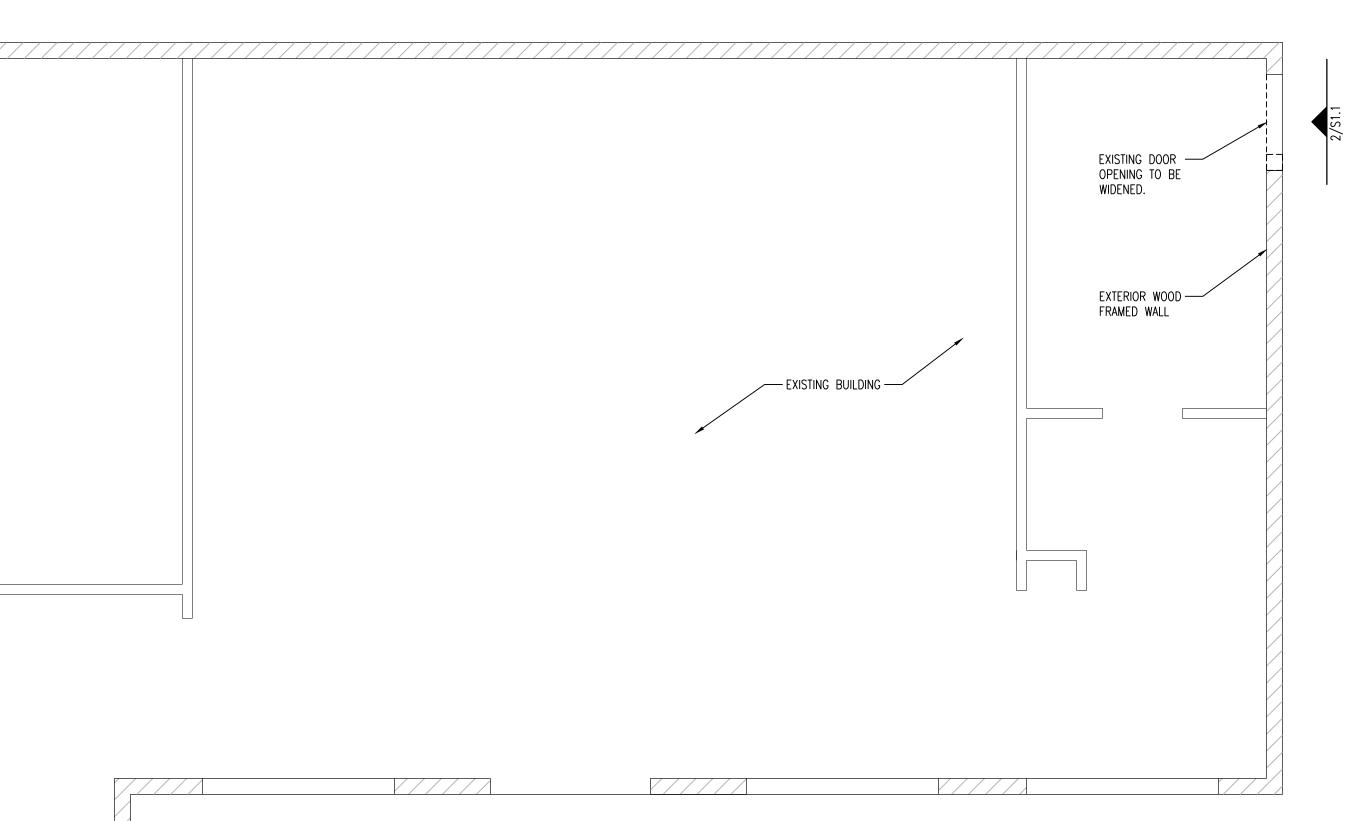
WING LOUGS	
1. Code	– FBC 6 th Edition
2. Building Risk Category	-
3. Wind Speed, Vult	– 141 mph
4. Wind Speed, Vasd	– 109 mph
5. Exposure Category	- C
6. Wind Directionality Factor (Kd)	85
7. Topographic Factor (Kzt)	- 1.0
8. Internal Pressure Coef.	- +/18
9. Wind Born Debris Reg.	– Yes

WOOD FRAMING

- A. All wood framing shall be in compliance with the latest edition of the National Design
- Specifications for Wood Construction (NDS). B. All lumber shall be sound, seasoned, and free from warp.
- C. All framing lumber shall be Southern Yellow Pine (SYP) #2 or better.
- D. Install blocking in all wall studs over 8'-0" at mid-height, and sheathing joint. E. All lumber in contact with masonry or concrete shall be pressure treated.
- F. Sheathing shall be APA exterior grade rated with Ply-Clips at 24" o.c.. See nailing
- schedule for sheathing connection. G. All nails and fasteners exposed to the exterior or in contact with pressure treated wood
- shall be galvanized. H. All connection hardware shall be galvanized and supplied by Simpson Strong-Tie or approved equal.

CONTRACTOR RESPONSIBILITY

- A. The Contract Structural Drawings and Specifications represent the finished structure and, except where specifically shown, do not indicate the means or methods of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence. The Engineer shall not have control or charge of, and shall not be responsible for, construction means, methods, procedures, techniques, or sequence, for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractor, or any other persons performing and of the work, or for the failure if and of them to carry out the work in accordance with the Contract Documents.
- B. It is the Contractor's responsibility to inform the Architect and Engineer of any conflicts that exist within the Structural drawings or conflict between the Architectural and Structural drawings in order to receive a clarification before proceeding with work.
- C. In locations where details or sections are not specifically noted, the construction shall be the same as similar conditions detailed and/or noted on the construction documents and specifications.
- D. It is the Contractor's responsibility to inform the Architect and Engineer of any unforeseen conditions, conflicts or discrepancies with the contract drawings and the
- existing conditions with regard to the demolition and remodeling of existing buildings. E. The General Contractor is responsible for all means and methods of demolition. F. The General Contractor is responsible for all temporary shoring required during demolition and construction.



JOHN L DECARO, PE PE 56031

TAMPA SPORTS AUTHORITY -BABE ZAHARIAS GRILL RENOV.

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100% REVIEW	2/15/2019

STRUCTURAL PLANS AND NOTES

S1.1

PLU DESCRIPTION MARK RESIDENTIAL TYPE VALVE BOX FOR RESIDENTIAL REFRIGERATOR AND ROUGH-IN AND MAKE ALL CONNECTION HOSE BIBB AND 7-1/2" X 9" X 3-PROVIDE 4" BOX IN STUD WALLS. NON-HANDICAPPED HOT/COLD WATER BOWL: PROVIDE FLOOR MOUNTED WAI CONCEALED CARRIER ARMS. MOUNT A EXISTING RELOCATED FAUCET: EXISTING TO REMAIN DRAIN: FLAT GRID, CHROME FINISH, LAVATORY ADA COMPLIANT OFFSET TAILPIECE. <u>P-TRAP:</u> CHROME FINISHED WITH TWO INLET AND 1-1/2" OUTLET, WITHOUT ESCUTCHEON. <u>SUPPLY:</u> TWO REQUIRED, CHROME P ANGLE VALVE, WALL ESCUTCHEON, F 3/8" INLET AND OUTLET CONNECTION MIXING VALVE: THERMOSTATICALLY CON USE MIXING VALVE. LEAD FREE. ASSE TEMPERATURE TO 105°F. FAUCET: CHROME-PLATED BRASS FAU WALL MOUNT FAUCET WITH 9-1/2" FXISTING RELOCATED CHROME HANDLES. FLOW RATE ON CERAMIC DISC TRIPI F COMPARTMENT DRAIN: FLAT GRID, CHROME FINISH, SINK TYPICAL OF THREE. SUPPLY: TWO REQUIRED, CHROME PL ANGLE VALVE, WALL ESCUTCHEON, FI

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	PLUMBING EQUIPMENT SCHEDULE						
MARK	DESCRIPTION	SELECTION	WORS	TRAP	VENT	н₩	CW
FS1	FLOOR SINK 12–1/2" NICKEL BRONZE TOP, 4" DEEP, STAINLESS STEEL GRATE.	SMITH 3001NB	2"	2"	1-1/2"	_	_
FS2	FLOOR SINK 12–1/2" NICKEL BRONZE TOP, 10" DEEP, STAINLESS STEEL GRATE.	SMITH 3009NB	3"	3"	1-1/2"	_	_
wco	CAST IRON TEE WALL CLEAN-OUT WITH BRONZE PLUG AND ROUND STAINLESS STEEL COVER PLATE. SIZE C.O. SAME AS LINE SIZE (2-1/2" MINIMUM). PROVIDE PVC TO NO-HUB ADAPTERS FOR PVC DWV APPLICATIONS.	SMITH 4351S-Y	2-1/2" MIN.	_	_	-	_
TP	TRAP PRIMER TAILPIECE. GRAVITY FED DEVICE WITH NO MECHANICAL PARTS. 1–1/4" TAILPIECE WITH 1/2" NOMINAL ARM FOR CONNECTION TO FLOOR DRAIN. USE TRAP PRIMER TAILPIECE IN–LIEU OF STANDARD LAVATORY TAILPIECE WHERE SPECIFIED. ASSE 1044.	SIOUX CHIEF 213–092	-	-	-	-	-

PLUMBING FIXTURE SCHEDULE						
DESCRIPTION	SELECTION	W OR S	TRAP	VENT	HW	cw
RESIDENTIAL TYPE VALVE BOX FOR RESIDENTIAL REFRIGERATOR AND DISHWASHER ROUGH-IN AND MAKE ALL CONNECTIONS. ONE 1/2" HOSE BIBB AND 7-1/2" X 9" X 3-1/2" BOX. NOTE: PROVIDE 4" BOX IN STUD WALLS.	WATER-TITE 9700	_	_	_	_	1/2"
NON-HANDICAPPED HOT/COLD WATER: <u>BOWL:</u> PROVIDE FLOOR MOUNTED WALL CARRIER WITH CONCEALED CARRIER ARMS. MOUNT AT 32" TO RIM. <u>FAUCET:</u> EXISTING TO REMAIN <u>DRAIN:</u> FLAT GRID, CHROME FINISH, 1–1/4" OUTLET WITH ADA COMPLIANT OFFSET TAILPIECE. <u>P-TRAP:</u> CHROME FINISHED WITH TWO UNIONS, 1–1/4" INLET AND 1–1/2" OUTLET, WITHOUT CLEANOUT, WALL ESCUTCHEON. <u>SUPPLY:</u> TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVE, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET AND OUTLET CONNECTIONS. <u>MIXING VALVE:</u> THERMOSTATICALLY CONTROLLED POINT OF USE MIXING VALVE. LEAD FREE. ASSE 1070 COMPLIANT. SET TEMPERATURE TO 105°F.	MCGUIRE 8902CNC MCGUIRE 2165CCLK SYMMONS 7-225-CK-MS	2"	1-1/4"	1-1/4"	1/2"	1/2"
FAUCET: CHROME-PLATED BRASS FAUCET, 8" CENTERSET WALL MOUNT FAUCET WITH 9-1/2" SPOUT AND 4" LEVER CHROME HANDLES. FLOW RATE ON 1.5 GPM WITH CERAMIC DISC <u>DRAIN:</u> FLAT GRID, CHROME FINISH, 3-1/2" OUTLET, TYPICAL OF THREE. <u>SUPPLY:</u> TWO REQUIRED, CHROME PLATED, LOOSE KEY ANGLE VALVE, WALL ESCUTCHEON, FLEXIBLE TUBE RISER, 3/8" INLET AND OUTLET CONNECTIONS.	CHICAGO W8W-L9E35-317ABCP ELKAY LK35, LK76 MCGUIRE 2165CCLK	2"	1-1/2"	1-1/2"	1/2"	1/2"

GENERAL PLUMBING NOTES

- 1. ALL PLUMBING WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING: A. FLORIDA BUILDING CODE (FBC) 6TH EDITION (2017): THIS CODE INCLUDES THE 2017 FBC BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, FUEL GAS, ACCESSIBILITY,
- AND TEST PROTOCOLS VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC BUILDING CHAPTER 35; FBC MECHANICAL CHAPTER 15; FBC PLUMBING CHAPTER 14; FBC ENERGY CONSERVATION CHAPTER 6; AND FBC FUEL GAS CHAPTER 8) (EFFECTIVE DECEMBER 31, 2017) B. 6TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES
- THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2017) C. 2014 NATIONAL ELECTRIC CODE
- 2. PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED. WORK CONSISTS OF FURNISHING ALL
- MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. 3. IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
- CONDITIONS SHOWN AS EXISTING ARE BASED ON AVAILABLE DATA AND SHOULD BE INTERPRETED 4. TO BE APPROXIMATE. VERIFY EXISTING CONDITIONS IN THE FIELD.
- 5. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. 6.
- COORDINATE LOCATIONS OF FLOOR DRAINS, CLEAN OUTS AND FLOOR HYDRANTS WITH THE ARCHITECTURAL DRAWINGS. 7. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE RUN IN CONCEALED SPACES ...
- 8. WATER PIPING SHALL BE HARD DRAWN COPPER TYPE L WITH WROUGHT COPPER FITTINGS AND 95–5 SOLDER.
- 9. ALL SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC DWV.
- 10. VENT THROUGH ROOF TERMINALS SHALL BE LOCATED 10'-O" AWAY FROM ANY BUILDING INTAKE OPENINGS. COORDINATE WITH THE MECHANICAL CONTRACTOR.
- 11. GATE VALVES SHALL BE #125 BRONZE WITH UNION BONNET. 12. PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE.
- 13. ALL FIRE STOPPING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S U.L. DETAILS OF THE PRODUCTS USED SPECIFICALLY ON THIS PROJECT. APPLICABLE U.L. DETAILS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW AND A COPY SHALL BE AVAILABLE ON SITE FOR USE BY THE AUTHORITY HAVING JURISDICTION.
- 14. UNLESS NOTED OTHERWISE, ALL PLUMBING EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A ONE YEAR PERIOD FROM DATE OF ACCEPTANCE.
- 15. PROVIDE ALL CUTTING REQUIRED FOR THE INSTALLATION OF PLUMBING WORK. FINISH PATCHING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
- 16. ALL SOIL AND WASTE PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT. LARGER WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
- 17. ALL WATER PIPING SHALL BE SUPPORTED RIGIDLY AND IN LINE FROM THE BUILDING STRUCTURE. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
- 18. PRIOR TO COMMENCING ANY PLUMBING ROUGH-IN, THE EXISTING SANITARY PIPING SHALL BE EXCAVATED. VERIFY THE EXACT SIZE, LOCATION, INVERT AND DIRECTION OF FLOW. NOTIFY THE ENGINEER IMMEDIATELY IF THE DRAIN IS SMALLER THAN INDICATED OR IF THE INVERT WILL NOT BE LOW ENOUGH FOR THE NEW PLUMBING ROUGH-IN. CONNECT NEW SANITARY LINES TO EXISTING SANITARY LINES AS INDICATED. PATCH THE FLOOR AS DIRECTED BY THE ARCHITECT.
- 19. VERIFY ALL SITE RELATED SANITARY & WATER CONNECTIONS PRIOR TO STARTING WORK. SHOULD DEPTHS BE DIFFERENT THAN THAT SHOWN HEREIN ADVISE ENGINEER IMMEDIATELY.
- 20. PRIOR TO SITE UTILITIES WORK, CALCULATE THE INVERTS FOR ALL SANITARY WASTE CONNECTIONS BASED ON ACTUAL CONDITIONS. COORDINATE SANITARY WASTE LOCATIONS AND INVERTS WITH SITE UTILITIES CONTRACTOR.
- 21. WASTE LINES RECEIVING BELOW AMBIENT TEMPERATURE CONDENSATE SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR FOAM (ARMAFLEX OR EQUIVALENT) INSULATION TO GRADE.
- 20. VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE INDICATED. 21. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I WH-201. AIR CHAMBERS SHALL NOT BE CONSIDERED EQUIVALENT TO WATER HAMMER SHOCK ARRESTORS.
- 22. ALL FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMER VALVE AND FITTINGS.
- 23. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES EXCEPT WHERE SPECIFICALLY NOTED OR IN THE MECHANICAL ROOM. ANY PIPING EXPOSED TO VIEW SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER IF DETERMINED BY THE OWNER TO BE OBJECTIONABLE
- 24. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON- ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 25. PROVIDE DIELECTRIC ISOLATION/SEPARATION (I.E. UNIONS) AT CONNECTIONS OF DISSIMILAR METALS.
- 26. ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURE'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS TO RENDER EQUIPMENT FULLY OPERATIONAL. ALL SUPPLIES SHALL BE VALVED. PROVIDE VACUUM BREAKERS OR CHECK VALVES WHERE REQUIRED BY AUTHORITY HAVING JURISDICTION.
- 27. PLUMBING CONTRACTOR SHALL TAG ALL VALVES WITH STAMPED BRASS TAGS. PROVIDE FIELD COORDINATED VALVE SCHEDULE MOUNTED IN 8-1/2"X11" PICTURE FRAME IN THE MECHANICAL
- 28. ALL EXPOSED PLUMBING PENETRATIONS SHALL HAVE ESCUTCHEON PLATES. 29. AVOID RUNNING WATER PIPING HORIZONTALLY IN WALL. IF HORIZONTAL RUN IS NECESSARY,
- THE PIPING SHALL BE HELD CLOSE TO CEILING OR TO FLOOR. KEEP WALL SPACE AS CLEAR AS POSSIBLE FOR EQUIPMENT. 30. ANY PLUMBING ITEMS EXPOSED TO VIEW SHALL BE PLACED PER THE ARCHITECTURAL DRAWINGS.
- 31. PROVIDE A BLUE STICKER ON CEILING GRID TEE BELOW ANY WATER VALVE ABOVE CEILING FOR LOCATION FACILITATION. 32. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO RECEIVE NEW WALL COVERINGS OR FLOOR
- FINISHES. EXISTING PLUMBING FIXTURES SHALL BE REMOVED TO ALLOW WORK TO BE DONE IN THESE AREAS AND THEN REINSTALLED. 33. DISCONNECT AND REMOVE DRAINS FROM ALL PLUMBING FIXTURES BEING REMOVED AND CAP
- BELOW FLOOR OR INSIDE OF WALL. DISCONNECT AND REMOVE ASSOCIATED VENT.
- 34. REMOVE ALL UNUSED WASTE AND VENT PIPING. 35. FOR EXISTING PLUMBING FIXTURES TO REMAIN OR BE RELOCATED, PERFORM THE FOLLOWING
- A. REPLACE ALL MISSING COVERS FOR FLOOR CLEANOUTS AND INSTALL NEW GRATES ON FLOOR DRAINS WHERE BROKEN OR MISSING.
- B. RE-HANG LOOSE FIXTURES.
- C. REPAIR LEAKING WASTE PIPING. D. SINKS AND LAVATORIES BEING REUSED - INSTALL NEW FAUCETS, TRAPS, STRAINERS, AND DRAIN ASSEMBLIES AS REQUIRED TO RENDER FIXTURE FULLY OPERATIONAL AND HAVE A LIKE NEW APPEARANCE.
- E. INSTALL NEW FIXTURE STOPS AT ALL LAVATORIES AND SINKS.
- 37. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

COORDINATE AND VERIFY EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS

REFER TO RISER ON DRAWING P401 FOR DOMESTIC WATER AND DRAWING P301 FOR WASTE AND VENT LINE SIZING

PLUMBING LEGEND

<u>کے۔۔</u> ج	VENT PIPING	
<u>کـــــــ</u>	WASTE PIPING BELOW FLOOR OR GRADE (SAN)	
ک	COLD WATER PIPING (CW)	
ہـ	HOT WATER PIPING (HW)	
÷тز	TEMPERED WATER (110°F) (TW)	
ہے۔۔۔۔	HOT WATER RETURN PIPING (HWR)	
→ 120 →	HOT WATER (120°F)	
<u>}</u>	RAIN LEADER LINE	
<u>کے م</u>	WASTE PIPING IN SLEEVE UNDER FOOTER	
o ?	PIPING UP	
 { \ {	PIPING DOWN	
\otimes	HOT WATER BALANCING VALVE	
<u>P#</u>	PLUMBING FIXTURE IDENTIFICATION. SEE PLUMBING FIXTURE SCHEDULE	
VTR	VENT THROUGH ROOF	
•	ELEVATION	
0	CONNECT NEW TO EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO EXECUTING WORK	
(E)	EXISTING – EXACT SIZE AND LOCATION TO BE FIELD VERIFIED.	
(D)	EXISTING ITEM TO BE DEMOLISHED	
(RL)	EXISTING ITEM TO BE RELOCATED	
(R)	NEW LOCATION OF EXISTING ITEM	
AFF BFF S W V	ABOVE FINISHED FLOOR BELOW FINISHED FLOOR SANITARY WASTE VENT	

EXAMINATION OF EXISTING CONDITIONS

ALL BIDDERS ARE ENCOURAGED TO VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS, INCLUDING THE PRESENCE OF ASBESTOS. THE OWNER SHALL REMOVE FROM THE SITE ALL CURRENTLY KNOWN SOURCES OF ASBESTOS PRIOR TO COMMENCEMENT OF THE WORK TO BE PERFORMED BY THE CONTRACTOR. IF DURING THE COURSE OF CONSTRUCTION, THERE IS REASON TO SUSPECT THE PRESENCE OF ADDITIONAL ASBESTOS, IMMEDIATELY NOTIFY THE ARCHITECT. THE ARCHITECT SHALL NOTIFY THE OWNER WITH REASONABLE PROMPTNESS TO ALLOW THE OWNER, AT THE OWNER'S EXPENSE, TO HAVE THE MATERIAL TESTED USING RECOGNIZED TESTING METHODS COMMONLY APPROVED IN THE INDUSTRY. SHOULD THE MATERIAL TEST POSITIVE FOR ASBESTOS, THE OWNER SHALL ARRANGE FOR THE ABATEMENT AND DISPOSAL OF THE MATERIAL AT THE OWNER'S EXPENSE. CONSTRUCTION MAY BE SUSPENDED DURING THE PERIOD REQUIRED TO COMPLETE SUCH TESTING AND REMOVAL OF ASBESTOS. SHOULD THE OWNER FAIL, WITHIN A REASONABLE TIME, TO REMOVE ALL THE ASBESTOS FROM THE SITE OR FAIL TO VERIFY TO THE SATISFACTION OF THE ARCHITECT AND CONTRACTOR THAT NO ASBESTOS IS PRESENT, THEN THE CONTRACTOR SHALL BE RELIEVED OF ANY FURTHER OBLIGATION REGARDING CONSTRUCTION.

HEPNERARCHITECTS

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STRUCTURAL ENGINEER DECAROWILLSON STRUCTURAL ENGINEERS 1725 E, 5TH AVENUE TAMPA, FLORIDA 33605 813-248-8080 CERT AUTH NO. 25896

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER ANSTON-GREENLEES, INC. 1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919 CERT AUTH NO. 6093



NOT FOR CONSTRUCTION STEPHEN R. FORKNER, P.E. 80532 TO THE BEST OF MY KNOWLEDGE, THESE DRAWING AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2017 FLORIDA BUILDING CODE

TAMPA SPORTS **AUTHORITY** -**BABE ZAHARIAS GRILL RENOV.**

11412 N. FOREST HILLS DR TAMPA, FLORIDA 33612

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE THE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE			
PROJECT NO.	3172		
DISTRIBUTION	DATE		
90% REVIEW SET	2/15/2019		
100% REVIEW SET	2/22/2019		

PLUMBING GENERAL NOTES, SCHEDULES AND LEGEND

P0.1

PLUMBING DRAWING INDEX

P0.1 P0.2 P1.1

PLUMBING GENERAL NOTES, SCHEDULES AND LEGEND PLUMBING SPECIFICATIONS PLUMBING FLOOR PLANS AND DETAILS

SECTION 15400 - PLUMBING REQUIREMENTS <u>PART 1.00 - GENERAL</u>

1.01 RELATED DOCUMENTS

1.02 SPECIFICATIONS AND DRAWINGS

Cooperate with all other trades and install work as fast as the progress of the job will permit.

Use only mechanics skilled in the work they are to perform and have a competent representative on the job when any work is being

C. No work shall be done unless the Superintendent of the Contractor is on the job site. Work shall be properly protected, all rubbish removed promptly, and exposed work shall be carefully cleaned prior to final acceptance.

D. The term "provide" shall include labor, materials, and equipment necessary to furnish and install, complete and operable, the item or

system indicated E. In decisions arising from discrepancies, interpretation of Drawings and Specifications, substitutes, and other pertinent matters, the decision of the Owner's representative's approval shall be final.

A. Plans show location of fixtures and equipment and are intended to depict the general intent of the work in scope, layout and quality of workmanship. They are not intended to show in minute detail every or all accessories intended for the purpose of executing the work, but it is understood that such details are a part of this work.

B. Where Drawings and Specifications conflict, it shall be the responsibility of this Contractor to bring such conflict to the attention of the Architect/Engineer for clarification. In general, the more stringent interpretation shall take precedence and the Architectural Drawings shall take precedence over the Plumbing Drawings with reference to building construction. All changes from the Drawings necessary to make the work conform with the building as constructed and to fit the work of other trades or to conform to the rules of authorities having jurisdiction, shall be made by the Contractor at his own expense.

C. Keep a record of the locations of concealed work and of any field changes in Contract Drawings and Specifications for each trade and, upon completion of the job, supply "As-Built" Drawings and Specifications showing in pencil on sepia reproducibles, any deviations from the original Drawings, indicating in the Specifications each manufacturer's name underlined or inserted whose product was used on the job. These Drawings shall indicate dimensions of buried utility lines from building walls. One set of sepia reproducibles of the original tracings will be furnished upon request for this purpose.

Where equipment is used other than manufacturers specified, the Sub-Contractor shall request approval to substitute materials and/or products as indicated and defined herein. Provide four (4) copies of materials and equipment for approval, for items requiring submittals. 1.03 PERMITS, FEES AND INSPECTIONS

A. The Contractor shall give all necessary notices, obtain all permits and pay all government fees, sales taxes and other costs, including utility connections or extensions, in connection with this work; file all permit applications required by all governmental departments having iurisdiction.

B. Obtain all required certificates of inspection for work and deliver them to the Owner before requesting acceptance and final payment for the work. C. The Contractor shall include in the work, without extra cost to the Owner, any labor, materials, services, apparatus and drawings

required to comply with all applicable laws, ordinances, rules and regulations. D. The Contractor shall inform the Owner of any work or materials which conflict with any of the applicable codes, standards, laws and regulations before submitting his bid.

1.04 GENERAL

A. Materials or products specified herein and/or indicated on drawings by trade name, manufacturer's name and/or catalog number shall be provided as specified. Substitutions will not be permitted except as described herein and in the Supplementary and General Condition Since manufacturers reserve the right to change their products at any time, contractors shall verify all dimensions, performance data etc. for each piece of equipment submitted to assure compliance with the intent of the drawings and specifications. C. All materials shall be new and of quality as specified, and when required, be clearly labeled and/or stamped as manufactured in the

United States. D. For acceptance of products or manufacturers other than those specified, bidders shall submit to the Architect/Engineer a request ir writing at least ten (10) days prior to bid date and hour. Requests received after this time will not be reviewed or considered regardless of cause. Requests shall clearly define and describe the product for which approval is requested. Requests shall be accompanied by manufacturer's literature, specifications, drawings, cuts, performance data list of references or other information necessary to completely describe the iter

Approval will be in the form of an addendum to the specifications issued to all prospective prime contract bidders on record. The addendum will indicate the additional products which are approved for this project. E. A list of all materials and equipment which the Contractor proposes to furnish shall be submitted for approval within ten (10)

days after the contract has been awarded. Data shall be complete in all respects. F. Where an accepted substitution or deviation requires different quantity or arrangement of foundations, supports, ductwork, piping wining, conduit, and any other equipment or accessories normal to this equipment, contractor shall furnish said changes and additions and pay all costs for all changes and additions to his work and the work of others affected by this substitution or deviation.

G. Deviations mean the use of any listed approved manufacturer other than those on which the drawings are based.

1.05 SHOP AND ERECTION DRAWINGS AND SAMPLES

A. The Architect/Engineer's approval shall be obtained for all equipment and material before delivery to the job site. Delivery, storage or installation of equipment or material which has not had prior approval will not be permitted at the job site. Submittals shall be made for all equipment and systems as indicated in the respective specification section.

B. All submittals shall include adequate descriptive literature, catalog cuts, shop drawings and other data necessary for the Architect/Engineer to ascertain that the proposed equipment and materials comply with specification and drawing requirements. Catalog cuts submitted for approval shall be legible and clearly identify equipment being submitted.

C. Shop and erection drawing submittals shall conform to the requirements of the General Conditions and Division-1 specifications except as modified herein.

D. Submit required and/or requested shop and erection drawings, for review by Architect/Engineer before ordering or installing any equipment or material. Equipment or material ordered or installed before Architect/Engineer review may not be accepted and may have to be removed from the project if deemed unacceptable.

E. Shop drawings shall consist of manufacturer's scale drawings, cuts or catalogs, including descriptive literature which shall clearly indicate the construction, material, physical dimensions, wiring diagrams and complete operating data clearly marked for each item. general nature will not be accepted. F. Shop drawings on paper larger than 11"x17" shall be submitted in the form of one set of reproducibles (vellum) and one set of

blueprints. The blueprints will be retained by the engineer and the reproducibles will be returned to the contractor. All drawings are to be submitted no later than 60 days after the contract has been awarded.

1. Coordination drawings shall show major elements, components, and systems of plumbing equipment and materials in relationship with other building components. Prepare drawings to an accurate scale of 1/4"=1'-O" or larger. Indicate the locations of all equipment and materials, including clearances for installing, servicing and maintaining equipment, valve stem movement, and similar requirements. Indicate movement and positioning of large equipment into the building during construction.

G. Submittals for individual systems and equipment assemblies which consist of more than one item or component shall be made for the system or assembly as a whole. Partial submittals will not be considered for approval. Submittals shall be submitted for all applicable products and materials specified in each individual section of these specifications. H. Make submittals for the equipment and materials in accordance with the followina:

- 1. Mark the submittals, "SUBMITTED UNDER SECTION_____".
- 2. Submittals shall be marked to show specification reference including the section and paragraph numbers.
- 3. The submittals shall include the following:

a. Information that confirms compliance with contract requirements. Include the manufacturer's name, model or catalog numbers. catalog information, technical data sheets, shop drawings, pictures, nameplate data and test reports as required. Provide any additional information specifically requested in the individual specification section or on the drawings

b. Parts list which shall include those replacement parts recommended by the equipment manufacturer, quantity of parts, current price and availability of each part. I. Shop drawings on paper 11"X17" or smaller in size shall be submitted in tabbed and indexed three ring binder. The binder shall not

exceed 11-5/8" height. Partial submittals are unacceptable. The index shall indicate the related specification section number J. A Fee will be charged for Engineering review of drawings received after the time allotted as described in "F" above or for plans that have been rejected two or more times due to non-compliance or incompleteness. The fee will be determined by the Architect/Engineer and will accompany the re-submittal in the form of a cashiers check or money order made payable to the Engineer

K. The General Contractor will certify that all shop drawings are in conformance with the plans and specifications. Deviations from the plans and specifications shall be noted, and the specific area of the deviation clouded and in contrasting color (green) with a complete explanation for the reasons for the deviation. Any redesign of the system shall be Certified by a Professional Engineer currently registered in the State of Florida, and will be accompanied by the fees as described in "J" above.

L.Carefully examine all shop drawings and mark-up as necessary before submitting to the Architect/Engineer for review. The consultant will only consider shop drawings bearing the contractor's stamp of approval. M. The engineer's review shall not relieve the contractor from the responsibility for deviations from drawings and specifications. The

engineer's review shall be construed to apply only to general arrangement and shall not relieve the contractor from the responsibility for the correctness of details and dimensions and provision of the correct equipment. N. The contractor shall retain copies of all reviewed shop drawings on the job site for reference.

0. In addition to the requirement of SUBMITTALS, the Owner reserves the right to request the manufacturer to arrange for the Owner's representative(s) to see typical active systems in operation, when there has been no prior experience with the manufacturer or the type of equipment being submitted.

1.06 COORDINATION WITH OTHER TRADES

1.09 EXPERIENCE

A. Contractor shall coordinate his work with other trades to avoid interferences and delays. He shall assist in working out space requirements to make a satisfactory installation. B. If the Contractor installs his work before coordinating with other trades, or so as to cause any interference with the work of other

trades. he shall make the necessary changes in his work to correct the condition without extra charge. C. The Contractor shall furnish to other trades, as required, all necessary templates, patterns, setting plans, and shop details for the proper installation of work and for the purpose of coordinating adjacent work. 1.07 EQUIPMENT IDENTIFICATION

Each unit shall be identified by its system number and other appropriate designation by stenciling in letters of approved size and wording. Equipment requiring identification shall include: supply and exhaust fans, air conditioning and heating machinery and apparatus, contro cabinets, and other equipment units as may be directed by the owner.

1.08 CUTTING, PATCHING, EXCAVATION, BACKFILL, AND LAYOUT A. Provide openings and excavation required for the installation of the work. Patch work and backfill as required. Finished work shall match the existing adjoining work.

B. Verify all conditions affecting the work to be performed under this contract.

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C. Carefully verify measurements at the site, determine the exact location of chases and openings required. Provide sleeves, inserts, and hangers as required. No columns, beams, joists, building foundations, nor any other structural building component shall be cut, drilled or disturbed in any way. Conflicts shall immediately be brought to the attention of the Architect/Engineer

D. All excavation on sites containing existing buildings and existing services, shall be done with hand shovel to avoid damage to existing services. Any damage incurred by the Contractor shall be repaired by the Contractor in a manner approved by the Architect/Engineer at no cost to the Owner and with no extension of time limitation.

A. The Contractor performing this work shall be a licensed, reputable firm, regularly performing the type of work incorporated in this

1.10 ELECTRICAL WORK FOR PLUMBING SYSTEMS

A. Controllers, and control equipment necessary for plumbing equipment operation shall be provided under Division 15 Mechanical. Starters not integral with plumbing equipment and starters mounted in motor control centers shall be provided under Division 16 Electrical. Power wiring for motors and installation of starters shall be provided under Division 16 Electrical. Temperature, humidity, pressure and similar controls essential to the operation of plumbing systems, and wiring and conduit thereof

D. Motors shall be provided under Division 15 Mechanical of capacity required to operate equipment specified, but shall not be less than that specified. E. All low voltage (120V and under) temperature control wiring for equipment shall be provided under this division.

F. Conduit when required for control wiring shall be provided under this division. 1.11 REMOVAL OF RUBBISH

A. Contractor shall keep premises free from accumulations of waste material or rubbish caused by his employees or work. At completion of work, he shall remove all his tools, scaffolding, surplus materials, and rubbish from building and site. He shall leave premises and his work in a clean orderly condition acceptable to the Architect/Engineer.

1.12 QUIET OPERATION AND VIBRATION A. All eauipment provided under this section shall operate under all conditions of load free of objectionable sound and vibration. Sound and vibration conditions considered objectionable shall be corrected in an approved manner. B. Vibration and sound control shall be by means of approved vibration eliminators or sound attenuators in a manner as specified and

as recommended by the manufacture 1.13 EXAMINATION OF EXISTING CONDITIONS

A. Visit and carefully examine those portions of the site and/or present buildings affected by this work so as to become familiar with existing conditions and difficulties that will affect the execution of the work before submitting proposals. B. Submission of a proposal will be construed as evidence that such examination has been made and later claims for labor, eaujoment or materials required because of difficulties encountered, which could have been foreseen had such examination been made, will not t recognized.

1.14 CLEANING AND ADJUSTMENTS A. Upon completion of work, Contractor shall clean and lubricate fans, motors, and other running equipment and apparatus which he has installed and make certain such apparatus and mechanisms are in proper working order and ready to test.

B. Scratched or damaged painting shall be touched up as necessary to return the painting to "new" condition and appearance. C. All piping and equipment shall be thoroughly blown out under pressure and cleared of all foreign matter, or run water through temporary connections as long as necessary to thoroughly clean system before system is placed in operation. Use every precaution to prevent pipe compound, scale, dirt, welding and other objectionable matter from getting into the piping system and equipment

D. During blow out period, baskets from strainers shall be removed, traps and control valves, etc., shall be by-passed. E. All cleaning shall be done prior to any sterilization, pressure testing, flow balancing or equipment adjustment procedures.

No columns, beams, joists, building foundations nor any other structural building component shall be cut, drilled or disturbed in any way. Conflicts shall immediately be brought to the attention of the Architect/Engineer. Contractor shall not proceed until instructed in writing by the Architect/Engineer if conflicts between plumbing work and structural elements occur.

1.16 CLEANING AND PROTECTING

1.15 DEMOLITION

A. During construction protect all piping and equipment from damage and dirt. Cap the open ends of all piping and equipment. B. After completion of project clean the exterior surface of equipment included in this section, remove all concrete residues and a directed touch up paint or completely repaint all damaged surfaces. 1.17 STORAGE OF MATERIALS

A. All materials stored on site shall be properly protected from injury or deterioration. Materials shall not be stored in contact with ground or floor.

B. Do not remove manufacturer's packing materials until ready to install. Materials showing signs of corrosion, improper handling or storage shall be replaced at no cost to the Owner. C. Provide continuous protection for all equipment already installed

1.18 WATERPROOFING

A. Where any work pierces waterproofing including waterproof concrete, the method of installation shall be as approved by the Owne before the work is done. B. Provide all necessary sleeves, caulking and flashing required to make openings absolutely watertight. Waterproof flashing materials shall be compatible with base materials. 1.19 TESTS

A. Contractor shall make all tests required to establish the adequacy, quality, safety, completed status and satisfactory operation of all systems to the satisfaction of the Architect/Engineer. Provide all instruments, labor and services necessary to conduct tests. 1.20 INSTRUCTIONS

A. Fully instruct Owner's personnel in the care and operation of plumbing systems and furnish a letter to the Architect/Engineer advising the particular person who has received such instruction.

1.21 Warranty

Furnish a letter addressed to the Architect/Engineer advising that the completed systems have been installed in accordance with the Plans and Specifications and that they are in proper operating condition. The Owner shall receive a written guarantee covering all defects in workmanship and material for a period of one year from date of final acceptance. Any defects appearing within this year period shall be repaired without additional cost to the Owner. Provide a five year manufacturer's warranty covering repair and replacement for all equipment and fixtures furnished for this project due to failure of the product.

1.23 ACCEPTANCE A. Before requesting final inspection:

1. Complete all work required. If any items are held in abeyance as incomplete for final inspection, list such items together with explanation for delay

2. Submit statement that equipment is properly installed, adjusted, fully lubricated and operation is satisfactory

3. Certify in writing to the Architect/Engineer that the Owner's representative has been instructed as to the care and operation of the system and that catalog service and maintenance information has been turned over to the Architect/Engineer.

4. Submit copy of written guarantee.

5. Submit copy of other data as may be outlined in these specifications.

B. Copies of the above data shall be submitted to the Architect/Engineer prior to requesting final inspection.

1.24 BROCHURF

A. At the completion of work, submit a bound brochure containing the following: 1. Shop Drawings

2. Maintenance Manuals

3. Control Wiring and Piping Diagrams

4. Operating Instructions

5. Copy of Guarantee

6. As-Built Drawinas B. Where projects are of sufficient size to make a single brochure impractical, several brochures shall be prepared by trade and

As-Built Drawings may be submitted as a separate item.

C. Brochure shall be indexed and divided for reasonable clarity.

D. Brochure shall be turned over to the Architect/Engineer for review and approval. The contractor shall make modifications to the brochure as deemed necessary for compliance and clarity, by the Architect/Engineer, and re-submit the final brochure to the Architect/Engineer to be forwarded to the Owner.

SECTION 15450 - PLUMBING MATERIALS & METHODS

PART 1.00 - GENERAL 1.01 RELATED DOCUMENTS

1.02 WORK INCLUDED

B. Pipes and Pipe Fittings

C. Piping Specialties

D. Valves

E. Hangers and Supports F. Insulation

G. Plumbing Fixtures

A. Standard Building Codes

H. Plumbing Equipment

1.03 REFERENCE STANDARDS

project and who also maintains, as part of the firm, a service department with qualified personnel who regularly perform this type of work. The Contractor shall, upon request, show evidence of at least two jobs of similar character and size installed within the preceding two years.

including interlock wiring, shall be provided under Division 15 of Specifications, installed in accordance with requirements of Division 16.

FND OF SECTION 15400

A. The general conditions and all requirements of the contract documents shall apply to all work of this Division.

A. Scheduling: Schedule work with Owner so as to avoid disruption of normal activities

1. 2017 Florida Building Code, Sixth Addition - Building 2. 2017 Florida Building Code, Sixth Addition - Plumbing B. National Fire Protection Association (NFPA) Codes. C. American Society for Testing and Materials (ASTM).

- 1. ASTM C177-76: Steady-State Thermal Transmission Properties by means of the Guarded Hot Plate: Thermal Conductivity
- 2. ASTM C335-79: Steady-State Heat Transfer Properties of Horizontal Pipe Insulations: Thermal Conductivity
- D. National Electrical Manufacturers Association (NEMA).

1. NEMA Standard MGI -12.536. E.Manufacturer's Standardization Society of the Valve and Fittings Industry, Inc.

1. MSS SP-58 - Pipe Hangers and Supports - Materials Design and Manufacture, 1988.

2. MSS SP-69 - Pipe Hangers and Supports - Selection and Application, 1991.

1.04 SUBMITTALS

A. Submit the following detailed manufacturer's product data and shop drawings for each item as follows:

1. Pipes and Pipe Fittings

2. Piping Specialties and Valves

3. Valves

4. Hangers and Supports

5. Insulation

6. Plumbing Fixtures

7. Plumbing Equipment

1.05 MECHANICAL SYSTEMS DEMONSTRATION

A. Prior to inspection, demonstrate the proper operations of each system to the Owner's representative.

B. Instruct Owner's maintenance personnel in operation, adjustment, maintenance of equipment and system using the operation and maintenance data as the basis of instruction.

1.06 WARRANTIES AND BONDS

Prior to final payment, compile manufacturer's written warranties for each major piece of equipment. In addition, warranty all apparatus furnished to remain in serviceable and operational condition for a period of at least one year from the date of substantial completion and acceptance of the work. This written warranty shall provide that any imperfections in material or function, as a whole or in part, by reason of defective workmanship, defective materials damaged as result of these defects or their repair, shall be made good to the satisfaction of the Owner's representative at the contractor's expense.

PART 2.00 - PRODUCTS

2.01 PIPES AND PIPE FITTINGS A. Domestic Water Pipina:

1. Interior above ground shall type copper tube, ASTM B88, Type L. Fittings shall meet ANSI B 16.18.

- B. Sanitary Waste and Vent Piping:
- 1. Above Slab & Exterior: Polyvinyl chloride DWV Schedule 40 pipe (PVC); standard weight; PVC DWV Schedule 40 pipe fittings, solvent cement joints.
- 2. Below Slab: Polyvinyl chloride DWV Schedule 40 pipe (PVC); standard weight; PVC DWV Schedule 40 pipe fittings, solvent cement

2.02 PIPING SPECIALTIES

A. Pipe Escutcheons: Provide pipe escutcheons with inside diameter closely fitting pipe outside diameter, or outside of pipe insulation where pipe is insulated. Select outside diameter of escutcheon to completely cover pipe penetration hole in floors, walls, or ceilings; and pipe sleeve extension, if any. Furnish pipe escutcheons with nickel or chrome finish for occupied areas, prime paint finish for unoccupied areas.

- 1. Pipe Escutcheons for Moist Areas: For waterproof floors, and areas where water and condensation can be expected to accumulate, provide cast brass or sheet brass escutcheons, solid or split hinged. 2. Pipe Escutcheons for Dry Areas: Provide sheet steel escutcheons, solid or split hinged.
- 3. Manufacturer: Chicago Specialty; Producers Specialty; or Sanitary-Dash B. Dielectric Unions: Provide standard products recommended by manufacturer for use in service indicated, which effectively isolate
- ferrous from non-ferrous piping (electrical conductance), prevent galvanic action, and stop corrosion.
- 1. Manufacturer: B&K Industries; Capital Mfg.; Eclipse; Epco; Perfection; or Rockford-Eclipse

C. Mechanical Sleeve Seals: Modular mechanical type, consisting of interlocking synthetic rubber links shaped to continuously fill annular space between pipe and sleeve, connected with bolts and pressure plates which cause rubber sealing elements to expand when tightened, providing watertight seal and electrical insulation.

1. Manufacturer: Thunderline

Fire Barrier Penetration Seals: Provide seals for any opening through fire-rated walls, floors, or ceilings used as passage for mechanical components such as piping or ductwork as shown in the details.

Water Hammer Arresters: Provide bellows type water hammer arresters, stainless steel casing and bellows, pressure rated for 250 psi, tested and certified in accordance with PDI Standard WH-201

1. Manufacturer: Amtrol; Smith; Tyler; or Zurn. F. Pipe Sleeves: Provide pipe sleeves of one of the following:

- 1. Sheet-metal: Fabricate from galvanized sheet metal; round tube closed with snaplock joint, welded spiral seams, or welded longitudinal joint. Fabricate from the following gages: 3" and smaller, 20 ga.; 4" to 6", 16 ga.; over 6", 14 ga.
- 2. Steel-Pipe: Fabricate from Schedule 40 galvanized steel pipe: remove burrs
- 3. Iron-Pipe: Fabricate from cast-iron or ductile-iron pipe; remove burrs
- 4. Plastic-Pipe: Fabricate from Schedule 80 PVC plastic pipe; remove burrs.

G. Sleeve Seals: Provide sleeve seals for sleeves located in foundation walls below grade, or in exterior walls, of one of the following:

1. Mechanical Sleeve Seals: Installed between sleeve and pipe.

2.03 VALVES

General: Provide factory-fabricated valves recommended by manufacturer for use in service indicated. Provide valves of types and pressure ratings indicated. Where not indicated, provide proper selection as determined by Installer to comply with installation requirements. Provide end connections which properly mate with pipe, tube, and equipment connections. Where more than one type is indicated, selection is Installer's option.

B. Sizes: Unless otherwise indicated, provide valves of same size as upstream pipe size.

C. Gate Valves: Lead free, Comply with the following standards:

- 1. Bronze Valves: MSS SP-80. NSF 61.
- 2. Manufacturer: Crane; Fairbanks; Hammond; Grinnel; Jenkins, Lunkenheimer; Milwaukee; Nibco, Powell; Stockham; or Walworth

D, Ball Valves: Lead free Comply with the following standards:

1. Brass Valves: MSS SP-110. NSF 61.

2. Manufacturer: Conbraco; Crane; Fairbanks; Hammond; Grinnell; Jamesbury; Jenkins; Metraflex; Milwaukee; Nibco; Powell; Stockman Walworth: or Watts.

2.04 HANGERS AND SUPPORTS A. Piping:

- 1. Hangers and supports shall comply with the requirements of MSS SP-58.
- 2. For support of copper tubing, use a split ring hanger with provision for vertical adjustment of cast brass, copper plated malleable
- 2.05 INSULATION

A. Domestic Hot and Cold Water Piping: Insulate all domestic hot and cold water piping except exposed fixture connections with 1/2" Armaflex or approved equal

2.06 PLUMBING FIXTURES

A. Plumbing fixtures shall be of the size, type, manufacturer, and capacity with all trim as listed on the fixture schedule on the drawinas. Provide carrier where indicated.

B. Submit shop drawings for approval of all plumbing fixtures furnished.

2.07 PLUMBING FOUIPMENT

A. Plumbing equipment shall be of the size, type, manufacturer, and capacity as listed in the equipment schedules on the drawings. B. Submit shop drawings for approval of all plumbing equipment furnished.

PART 3.00 - EXECUTION 3.01 PIPES AND PIPE FITTINGS

enclosures

A. General: Install pipes and pipe fittings in accordance with recognized industry practices which will achieve permanently-leakproof piping system, capable of performing each indicated service without piping failure. Install each run with minimum joints and coupling, but with adequate and accessible unions for disassembly and maintenance/replacement of valves and equipment. Reduce sizes (where indicated) by use of reducing fittings. Align piping accurately at connections, within 1/16" misalignment tolerance. Comply with ASME B31 Code for Pressure Piping.

B. Locate piping runs, except as otherwise indicated, vertically and horizontally (pitched to drain) and avoid diagonal runs wherever

possible. Orient horizontal runs parallel with walls and column lines. Locate runs as shown or described by diagrams, details and notations or if not otherwise indicated, run piping in shortest route which does not obstruct usable space or block access for servicing building and its

equipment. Hold piping close to walls, overhead construction, columns and other structural and permanent-enclosure elements of building; limit

clearance to 1/2" where furring is shown for enclosure or concealment of piping, but allow for insulation thickness, if any. Where possible,

locate insulated piping for 1" clearance outside insulation. Wherever possible in finished and occupied spaces, conceal piping from view, by locating in column enclosures, in hollow wall construction or above suspended ceilings; do not encase horizontal runs in solid partitions, except as

C. Electrical Equipment Spaces: Do not run piping through transformer vaults and other electrical or electronic equipment spaces and

D. Solder copper tube-and-fitting joints in accordance with applicable provisions of CDA "Copper Tube Handbook"

E. Plastic Pipe/Tube Joints: Comply with the following:

1. Making Solvent-Cemented Joints: ASTM D 2235, and ASTM F 402.

F. Cleaning, Flushing, Inspecting:

- 1. General: Clean exterior surfaces of installed piping systems of superfluous materials, and prepare for application of specified coatings (if any). Flush out piping systems with clean water before proceeding with required tests. Inspect each run of each system for completion of joints, supports and accessory items.
- a. Inspect pressure piping in accordance with procedures of ASME B31. b. Disinfect water mains and water service piping in accordance with AWWA C601
- 2. Test pressure piping in accordance with ASTM B31.
- 3. Repair piping systems sections which fail required piping test, by disassembly and re-installation, using new materials to extent required to overcome leakage. Do not use chemicals, stop-leak compounds, mastics, or other temporary repair methods. 4. Drain test water from piping systems after testing and repair work has been completed.

3.02 PIPING SPECIALTIES

Pipe Escutcheons: Install pipe escutcheons on each pipe penetration thru floors, walls, partitions, and ceilings where penetration is exposed to view; and on exterior of building. Secure escutcheon to pipe or insulation so escutcheon covers penetration hole, and is flush with adioinina surface.

B. Dielectric Unions: Install dielectric unions at each piping joint between ferrous (steel) and non-ferrous (copper, brass, or pvc) piping. Comply with manufacturer's installation instructions. Mechanical Sleeve Seals: Loosely assemble rubber links around pipe with bolts and pressure plates located under each bolt head and

nut. Push into sleeve and center. Tighten bolts until links have expanded to form watertight seal. Water Hammer Arresters: Install in upright position, in locations and of sizes in accordance with PDI Standard WH-201, and elsewhere as indicated

E. Pipe Sleeves: Install pipe sleeves of types indicated where piping passes through walls, floors, ceilings, and roofs. Do not install sleeves through structural members of work, except as detailed on drawings, or as reviewed by Architect/Engineer. Install sleeves accurately centered on pipe runs. Size sleeves so that piping and insulation (if any) will have free movement in sleeve, including allowance for thermal expansion; but not less than 2 pipe sizes larger than piping run. Where insulation includes vapor-barrier jacket, provide sleeve with sufficient clearance for installation. Install length of sleeve equal to thickness of construction penetrated, and finish flush to surface; except floor sleeves. Extend floor sleeves 1/4" above level floor finish, and 3/4" above floor finish sloped to drain. Provide temporary support of sleeves during placement of concrete and other work around sleeves, and provide temporary closure to prevent concrete and other materials from entering

- 1. Install sheet-metal sleeves at interior partitions and ceilings other than suspended ceilings.
- 2. Install iron-pipe sleeves at exterior penetrations, both above and below grade.
- 3. Install steel-pipe or plastic-pipe sleeves except as otherwise indicated.

1. Provide cleanouts at end and at points in change of direction of all drains, soil and waste pipes and branches thereof, at foot of each riser, at all offsets in all horizontal runs at approximately 75 foot intervals both inside and outside building, at other points where indicated on the plans or where required.

Install valves where required for proper operation of piping and equipment, including valves in branch lines where necessary to isolate sections of piping. Locate valves so as to be accessible and so that separate support can be provided when necessary. B. Install valves with stems pointed up, in vertical position where possible, but in no case with stems pointed downward from horizontal plane unless unavoidable. Install valve drains with hose-end adapter for each valve that must be installed with stem below horizontal plane.

C. Place shut-off valve on each water main service. Place valve near the building where indicated on the drawings.

3.04 SUPPORTS AND ANCHORS

Install hangers, supports, clamps and attachments to support piping properly from building structure; comply with MSS SP-69. Arrange for grouping of parallel runs of horizontal piping to be supported together on trapeze type hangers where possible. Install supports with naximum spacings complying with MSS SP-69. Where piping of various sizes is to be supported together by trapeze hangers, space hangers for smallest pipe size or install intermediate supports for smaller diameter pipe. Do not use wire or perforated metal to support piping, and do not support piping from other piping.

Install handers and supports complete with necessary inserts, bolts, rods, nuts, washers and other accessories. Except as otherwise indicated for exposed continuous pipe runs, install hangers and supports of same type and style as installed for adjacent similar piping. Prevent electrolysis in support of copper tubing by use of hangers and supports which are copper plated, or by other recognized industry methods.

1. Saddles: Where insulation without vapor barrier is indicated, install protection saddles.

3.05 INSULATION

- A. Piping Insulation
- 1. Do not split insulation. Slide over the tubing before fabrication. Seal successive sections of insulation with factory approved and recommended mastic. Butt together and hold until mastic dries...60 seconds.
- 2. Split insulation is not acceptable and shall be removed and new insulation installed if it is observed on the job.
- 3. Size insulation for tubing. Do not oversize. Insulation shall be snug

3.06 PLUMBING FIXTURES AND EQUIPMENT A. Plumbing Fixtures

- 1. Install plumbing fixtures and equipment as indicated on the drawings. Installation must be in accordance with applicable codes and manufacturer's recommendations. Coordinate to ensure that fixture carrier is of appropriate type and size to fit plumbing chase walls provided
- 2. All wall hung fixtures, pipes, etc. shall be tightly secured to and anchored to walls. Provide additional stiffening members on stud walls as required
- 3. Contractor shall refer to, and locate and install plumbing fixtures as shown on latest architectural drawings.
- 4. After plumbing fixtures are set, the crack between the fixture and the wall shall be caulked carefully with Tub-Tite as manufactured by American Fluoresite Company, or approved equal
- 5. Fixtures shall be protected from damage during construction, and shall be thoroughly cleaned of all tape and adhesives prior to final acceptance

6. All porcelain or vitreous china fixtures shall be clean, smooth and bright. All shall be warranted not to craze, discolor or scale. END OF SECTION 15450

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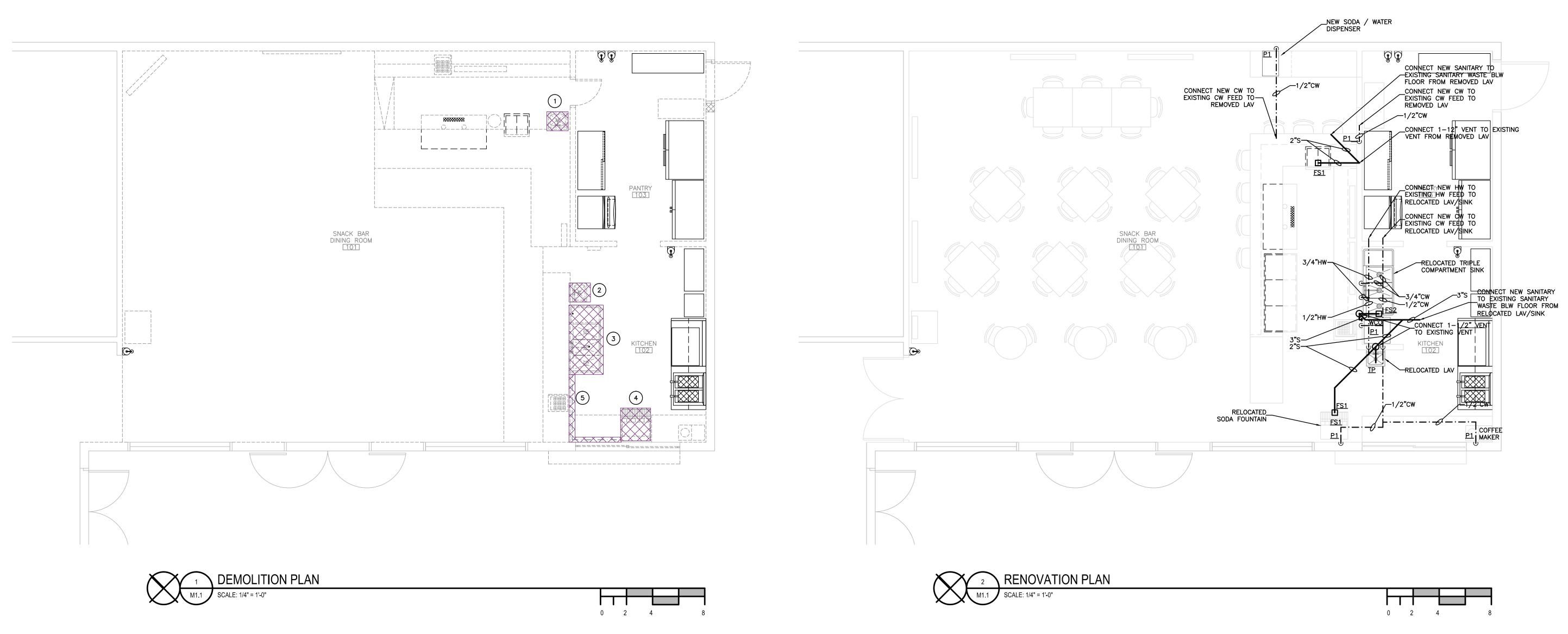
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90% REVIEW SET	2/15/2019		
100% REVIEW SET	2/22/2019		
	- <u> </u>		

PLUMBING SPECIFICATIONS





(4) REMOVE DOMESTIC HOT WATER AND HOT WATER. CAP PIPE.

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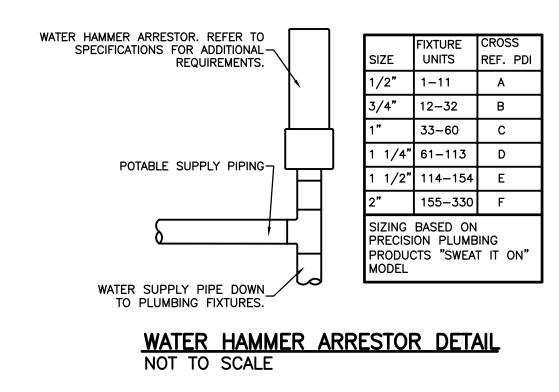
- 4 EXISTING SODA FOUNTIAN TO BE RELOCATED. REMOVE EXISTING COLD WATER PIPE TO BEHIND WALL AND CAP. PATCH OPENINGS TO MATCH ADJACENT SURFACE.
- 3 RELOCATE EXISTING TRIPLE COMPARTMENT SINK. REMOVE EXISTING COLD WATER AND HOT WATER PIPE TO BEHIND WALL AND CAP. REMOVE EXISTING WASTE PIPING TO BEHIND ADJACENT WALL AND CAP. PATCH OPENINGS TO MATCH ADJACENT SURFACE. PROVIDE NEW FAUCET, TAILPIECE, P-TRAP, SUPPLY STOPS, SUPPLY PIPES, ETC.
- PIPES, ETC. 2 REMOVE EXISTING LAVATORY. REMOVE EXISTING COLD WATER AND HOT WATER PIPE TO BEHIND WALL AND CAP. REMOVE EXISTING WASTE PIPING TO BEHIND ADJACENT WALL AND CAP. PATCH OPENINGS TO MATCH ADJACENT SURFACE.
- DEMOLITION NOTES: 1 RELOCATE EXISTING LAVATORY AND FAUCET. REMOVE EXISTING COLD WATER AND HOT WATER PIPE TO BEHIND WALL AND CAP. REMOVE EXISTING WASTE PIPING TO BEHIND ADJACENT WALL AND CAP. PATCH OPENINGS TO MATCH ADJACENT SURFACE. PROVIDE NEW TAILPIECE, P-TRAP, SUPPLY STOPS, SUPPLY

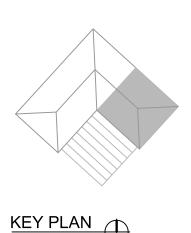
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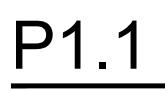
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PLUMBING FLOOR PLANS AND DETAILS



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GENERAL MECHANICAL NOTES

- ALL MECHANICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
 A. FLORIDA BUILDING CODE (FBC) 6TH EDITION (2017): THIS CODE INCLUDES THE 2017 FBC BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, FUEL GAS, ACCESSIBILITY, AND TEST PROTOCOLS VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC BUILDING CHAPTER 35; FBC MECHANICAL CHAPTER 15; FBC PLUMBING CHAPTER 14; FBC ENERGY CONSERVATION CHAPTER 6; AND FBC FUEL GAS CHAPTER 8) (EFFECTIVE DECEMBER 31, 2017).
- B. 6TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2017).
- C. 2014 NATIONAL ELECTRIC CODE.2. VERIFY, BY VISITING THE SITE, THE LOCATION OF UTILITIES IN ALL AREAS BEFORE COMMENCING WORK.
- COVER ALL ELECTRICAL AND MECHANICAL EQUIPMENT TO PROTECT THEM FROM DUST AND DAMAGE DURING CONSTRUCTION. RESTORE ALL FACTORY PAINTED SURFACES TO NEW CONDITION, REPAIR ALL SCRATCHES, DENTS AND ABRASIONS. THOROUGHLY CLEAN ALL SURFACES OF DUST DEBRIS, AND FOREIGN MATTER. THE EQUIPMENT, WHEN TURNED OVER TO THE OWNER, SHALL BE CLEAN AND FREE OF DEFECTS.
- 4. IN GENERAL, PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
- 5. ALL DUCTWORK SHALL MEET THE STANDARDS SET FORTH BY THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE FABRICATED FROM SHEET METAL. ALL ROUND DUCT SHALL BE SHEET METAL UNLESS OTHERWISE NOTED. PROVIDE TURNING VANES IN ALL 90" DUCT ELBOWS.
- 6. PROVIDE INSULATION FOR NEW DUCTWORK TO AND FROM THE UNIT WITH GLASS FIBER DUCT WRAP INSULATION. FACTORY APPLIED FOIL FACED VAPOR BARRIER, ASTM 518 AND ASTM E84 CERTIFIED TESTING PROCEDURES. JOINT TAPE SHALL BE MINIMUM 3" WIDE FOIL REINFORCED KRAFT TYPE. INSULATION THICKNESS SHALL BE A MINIMUM 2" THICK.
- 7. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS (FREE AREA).
- VERIFY ALL CLEARANCES AND DIMENSIONS BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSETS TO MEET FIELD CONDITIONS. ADJUST LOCATIONS OF ALL EQUIPMENT AND DUCTWORK, AS NECESSARY TO AVOID INTERFERENCES WITH STRUCTURAL AND OTHER BUILDING COMPONENTS.
 DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL
- NOT BE SUPPORTED BY THE CEILING OR CÉILING SUSPENSION SYSTEM. 10. ALL SUPPLY DUCTWORK SHALL BE 2" W.G. ALL SHEET METAL DUCTWORK SHALL HAVE A CLASS C SEAL.
- 11. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO INSTALL MECHANICAL EQUIPMENT AND MATERIALS.
- 12. REPLACE ANY CEILING TILES OR GRID, DAMAGED DURING CONSTRUCTION IN ANY AREAS WHERE THE CEILING IS REMOVED TO EXECUTE WORK. REPLACEMENT TILES AND TEES SHALL MATCH EXISTING.
- 13. PROVIDE ADDITIONAL VOLUME DAMPERS AS REQUIRED BY THE TEST AND BALANCE CONTRACTOR TO ACHIEVE AIRFLOWS INDICATED ON THE DRAWINGS.
- 14. MAINTAIN NEGATIVE PRESSURE IN ALL DESIGNATED CONSTRUCTION AREAS.
- 15. THE OWNER SHALL BE GIVEN ONE WEEK PRIOR NOTICE FOR ALL PERIODS OF HVAC SYSTEMS DOWNTIME.
- 16. EXISTING THERMOSTATS AND SENSORS SHALL BE REUSED. THOSE BEING DISPLACED BY RENOVATION WORK SHALL BE RELOCATED AS DIRECTED BY THE OWNERS REPRESENTATIVE IN THE FIELD.
- 17. ALL DUCT MOUNTED MANUAL BALANCING DAMPERS SHALL HAVE A TWO FOOT LONG, YELLOW STRIP OF MATERIAL ATTACHED TO THE DAMPER HANDLE FOR EASY VISUAL IDENTIFICATION.
- 18. ROUND FLEX DUCT SHALL BE A MAXIMUM LENGTH OF 6 FEET. ALL RUNS OF FLEX DUCT ARE TO BE SUPPORTED WITH THE APPROPRIATE HANGERS. FLEX DUCT SHALL NOT SAG OR BE CRIMPED.
- 19. LOCATE ALL AIR DISTRIBUTION DEVICES AND CEILING MOUNTED EQUIPMENT IN CONFORMANCE WITH THE REFLECTED CEILING PLANS INCLUDED IN THE ARCHITECTURAL DRAWINGS FOR THIS PROJECT. COORDINATE DUCTWORK TO ALLOW FOR LOCATIONS OF THESE ITEMS. PROVIDE REVISED DUCTWORK LAYOUT WHERE REQUIRED. ANY MECHANICAL ITEMS EXPOSED TO VIEW SHALL BE PLACED PER THE ARCHITECTURAL DRAWINGS.
- 20. ALL EXTERIOR FASTENERS, ANCHORS, SUPPORTS, AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- 21. PRIOR TO SUBSTANTIAL COMPLETION, A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS.
- 22. AT THE COMPLETION OF THE INSTALLATION, SUBMIT A COMPLETE CERTIFIED TEST AND BALANCE REPORT FROM AN AGENCY HAVING A MINIMUM OF FIVE YEARS EXPERIENCE AND IS A CURRENT MEMBER OF NEBB OR AABC. REPORT SHALL ITEMIZE THE PERFORMANCE OF EACH AIR DEVICE AND UNIT WITH REGARD TO CFM, STATIC PRESSURE, AND TEMPERATURE.
- 23. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

	SUPPLY AIR DUCT (UP & DOW
	RETURN AIR DUCT (UP & DOW
	EXHAUST AIR DUCT (UP & DO
	VOLUME DAMPER
	OPPOSED BLADE VOLUME DAMP
\bigcirc	WALL MTD THERMOSTAT OR TE
	ELEVATION CHANGE IN DUCT

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HVAC LEGEND

DOWN)		BELLMOUTH "SPIN-IN" FITTING WITH LOCKING QUADRANT DAMPER
DOWN)		FLEX DUCT
DOWN)	<u>CD1</u> 375 12x12/8 " ø	AIR DEVICE MARK. TOP LINE INDICATES TYPE, REFER TO SCHEDULE. SECOND LINE INDICATES AIR QUANTITY CFM. THIRD LINE INDICATES NECK SIZE AND DUCT CONNECTION SIZE.
	(E)	EXISTING - FIELD VERIFY EXACT SIZE AND LOCATION
AMPER	(D) OR -XX-	EXISTING TO BE DEMOLISHED
TEMPERATURE SENSOR	(RL)	EXISTING ITEM TO BE RELOCATED
	(R)	NEW LOCATION OF EXISTING ITEM
-	0	CONNECT NEW TO EXISTING

DUCTWORK MATERIALS

- 1. FLEX DUCT SHALL BE EQUIVALENT TO FLEXMASTER 1M WITH A POLYETHYLENE FABRIC (PE) CORE AND SHALL HAVE PRESSURE RATINGS OF 10" W.G. POSITIVE, 5" W.G. NEGATIVE THROUGH 16" DIA., AND 1" W.G. NEGATIVE FOR 18" AND 20" DUCTS.
- 2. ALL TRANSFER DUCT SHALL BE UNINSULATED LONGITUDINAL SEAM SHEET METAL DUCTWORK. INSULATE DUCT IF OUTSIDE OF THERMAL ENVELOPE.
- 3. FLEXIBLE DUCT RUNOUTS SHALL NOT EXCEED 6 FEET.
- 4. THE USE OF SNAP LOCK DUCT IS NOT PERMITTED.

DESIGN CRITE	RIA
Location: Latitude: Longitude: Elevation: Barometric Pressure: DESIGN TEMPERATURES: Ambient Summer Design Dry Bulb: Ambient Summer Design Dry Bulb: Ambient Winter Design Dry Bulb: Space Setpoint - cooling Space Setpoint - heating Space Setpoint - humidity	TAMPA 28.0° 82.0° 19 ft. 29.9 in. Hg 91°F 80°F 39°F 76°F 70°F 50% RH

HVAC	DRAWING INDEX	
10.4		

MO.1	HVAC	GENERAL NOTES, AND LEGEND
M0.2	HVAC	SPECIFICATIONS
M1.1	HVAC	FLOOR PLANS, DETAILS, AND SCHEDULES



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100% REVIEW SET	2/22/2019

HVAC GENERAL NOTES AND LEGEND

M0.1

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

A. Cooperate with all other trades and install work as fast as the progress of the job will permit. B. Use only mechanics skilled in the work they are to perform and have a competent representative on the job when any work is being done.

C. No work shall be done unless the Superintendent of the Contractor is on the job site. Work shall be properly protected, all rubbish removed promptly, and exposed work shall be carefully cleaned prior to final acceptance. D. The term "provide" shall include labor, materials, and equipment necessary to furnish and install,

complete and operable, the item or system indicated. E. In decisions arising from discrepancies, interpretation of Drawings and Specifications, substitutes, and other pertinent matters, the decision of the Owner's representative's approval shall be final.

1.02 SPECIFICATIONS AND DRAWINGS

A. Plans show location of fixtures and equipment and are intended to depict the general intent of the work in scope, layout and auality of workmanship. They are not intended to show in minute detail every or all accessories intended for the purpose of executing the work, but it is understood that such details are a part of this work.

B. Where Drawings and Specifications conflict, it shall be the responsibility of the Mechanical Contractor to bring such conflict to the attention of the Architect/Engineer for clarification. In general, the more stringent interpretation shall take precedence and the Architectural Drawings shall take precedence over the Mechanical Drawings with reference to building construction. All changes from the Drawings necessary to make the work conform with the building as constructed and to fit the work of other trades or to conform to the rules of authorities having jurisdiction, shall be made by the Contractor at his own expense.

C. Keep a record of the locations of concealed work and of any field changes in Contract Drawings and Specifications for each trade and, upon completion of the job, supply "As-Built" Drawings and Specifications showing in pencil on sepia reproducibles, any deviations from the original Drawings indicating in the Specifications each manufacturer's name underlined or inserted whose product was used on the job. These Drawings shall indicate dimensions of buried utility lines from building walls. One set of sepia reproducibles of the original tracings will be furnished upon request for this purpose.

D. Where equipment is used other than manufacturers specified, request approval to substitute materials and/or products as indicated and defined herein. Provide four (4) copies of materials and equipment for approval, for items requiring submittals.

1.03 PERMITS, FEES AND INSPECTIONS:

A. Give all necessary notices, obtain all permits and pay all government fees, sales taxes and other costs, including utility connections or extensions, in connection with this work; file all permit applications required by all governmental departments having jurisdiction.

B. Obtain all required certificates of inspection for work and deliver them to the Owner before requesting acceptance and final payment for the work. C. Include in the work, without extra cost to the Owner, any labor, materials, services, apparatus

and drawings required to comply with all applicable laws, ordinances, rules and regulations. D. Inform the Owner of any work or materials which conflict with any of the applicable codes, standards, laws and regulations before submitting his bid.

1.04 GENERAL

A. Materials or products specified herein and/or indicated on drawings by trade name, manufacturer's name and/or catalog number shall be provided as specified. Substitutions will not be permitted except as described herein and in the Supplementary and General Conditions.

B. Since manufacturers reserve the right to change their products at any time, contractors shall verify all dimensions, performance data, etc. for each piece of equipment submitted to assure compliance with the intent of the drawings and specifications.

C. All materials shall be new and of quality as specified, and when required, be clearly labeled and/or stamped as manufactured in the United States.

D. For acceptance of products or manufacturers other than those specified, bidders shall submit to the Architect/Engineer a request in writing at least ten (10) days prior to bid date and hour. Reauests received after this time will not be reviewed or considered regardless of cause. Requests shall clearly define and describe the product for which approval is requested. Requests shall be accompanied by manufacturer's literature, specifications, drawings, cuts, performance data list of references or other information necessary to completely describe the item. Approval will be in the form of an addendum to the specifications issued to all prospective prime contract bidders on record. The addendum will indicate the additional products which are approved for this project.

E. A list of all materials and equipment which the Mechanical Contractor proposes to furnish shall be submitted for approval within ten (10) days after the contract has been awarded. Data shall be complete in all respects

F. Where an accepted substitution or deviation requires different quantity or arrangement of foundations, supports, ductwork, piping, wiring, conduit, and any other equipment or accessories normal to this equipment, contractor shall furnish said changes and additions and pay all costs for all changes and additions to his work and the work of others affected by this substitution or deviation.

G. Deviations mean the use of any listed approved manufacturer other than those on which the drawinas are based.

1.05 SHOP AND ERECTION DRAWINGS AND SAMPLES

A. The Architect/Engineer's approval shall be obtained for all equipment and material before delivery to the job site. Delivery, storage or installation of equipment or material which has not had prior approval will not be permitted at the job site. Submittals shall be made for all equipment and systems as indicated in the respective specification section.

B. All submittals shall include adequate descriptive literature, catalog cuts, shop drawings and other data necessary for the Architect/Engineer to ascertain that the proposed equipment and materials comply with specification and drawing requirements. Catalog cuts submitted for approval shall be legible and clearly identify equipment being submitted.

C. Shop and erection drawing submittals shall conform to the requirements of the General Conditions and Division-1 specifications except as modified herein.

Submit required and/or requested shop and erection drawings, for review by Architect/Engineer before ordering or installing any equipment or material. Equipment or material ordered or installed before Architect/Engineer review may not be accepted and may have to be removed from the project if deemed unacceptable

E. Shop drawings shall consist of manufacturer's scale drawings, cuts or catalogs, including descriptive literature which shall clearly indicate the construction, material, physical dimensions, wiring diagrams and complete operating data clearly marked for each item. Data of general nature will not be accepted.

F. Shop drawings on paper larger than 11"x17" shall be submitted in the form of one set of reproducibles (vellum) and one set of blueprints. The blueprints will be retained by the engineer and the reproducibles will be returned to the contractor. All drawings are to be submitted no later than 60 days after the contract has been awarded.

1. Coordination drawings shall show major elements, components, and systems of mechanical equipment and materials in relationship with other building components. Prepare drawings to an accurate scale of 1/4"=1'-0" or larger. Indicate the locations of all equipment and materials, including clearances for installing, servicing and maintaining equipment, valve stem movement, and similar requirements. Indicate movement and positioning of large equipment into the building during construction.

G. Submittals for individual systems and equipment assemblies which consist of more than one item or component shall be made for the system or assembly as a whole. Partial submittals will not be considered for approval. Submittals shall be submitted for all applicable products and materials specified in each individual section of these specifications.

H. Make submittals for the equipment and materials in accordance with the following:

1. Mark the submittals, "SUBMITTED UNDER SECTION_____

2. Submittals shall be marked to show specification reference including the section and paragraph numbers.

3. The submittals shall include the following:

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a. Information that confirms compliance with contract requirements. Include the manufacturer's name, model or catalog numbers, catalog information, technical data sheets, shop drawings, pictures, nameplate data and test reports as required. Provide any additional information specifically requested in the individual specification section or on the drawinas.

b. Parts list which shall include those replacement parts recommended by the equipment manufacturer, quantity of parts, current price and availability of each part. I.Shop drawings on paper 11"X17" or smaller in size shall be submitted in tabbed and indexed three

ring binder. The binder shall not exceed 11-5/8" height. Partial submittals are unacceptable. The index shall indicate the related specification section number.

J. A Fee will be charged for Engineering review of drawings received after the time allotted as described in "F" above or for plans that have been rejected two or more times due to non-compliance or incompleteness. The fee will be determined by the Architect/Engineer and will accompany the re-submittal in the form of a cashiers check or money order made payable to the Engineer.

K. Certify that all shop drawings are in conformance with the plans and specifications. Deviations from the plans and specifications shall be noted, and the specific area of the deviation clouded and in contrasting color (green) with a complete explanation for the reasons for the deviation. Any redesian of the system shall be Certified by a Professional Engineer currently registered in the State of Florida, and will be accompanied by the fees as described in "J" above.

L. Carefully examine all shop drawings and mark—up as necessary before submitting to the Architect/Engineer for review. The consultant will only consider shop drawings bearing the contractor's stamp of approval.

M. The engineer's review shall not relieve the contractor from the responsibility for deviations from drawinas and specifications. The engineer's review shall be construed to apply only to general arrangement and shall not relieve the contractor from the responsibility for the correctness of details and dimensions and provision of the correct equipment. N. Retain copies of all reviewed shop drawings on the job site for reference.

0. In addition to the requirement of SUBMITTALS, the Owner reserves the right to request the manufacturer to arrange for the Owner's representative(s) to see typical active systems in operation, when there has been no prior experience with the manufacturer or the type of equipment being submitted.

1.06 COORDINATION WITH OTHER TRADES A. Coordinate work with other trades to avoid interferences and delays. Assist in working out space requirements to make a satisfactory installation. B. If installation occurs prior to coordinating with other trades, or so as to cause any interference with the work of other trades, necessary changes to correct the condition shall be without extra charge.

1.07 FOUIPMENT IDENTIFICATION

equipment units as may be directed by the owner. 1.08 CUTTING, PATCHING, EXCAVATION, BACKFILL, AND LAYOUT A. Provide openings and excavation required for the installation of the work. Patch work and

backfill as required. Finished work shall match the existing adjoining work. B. Verify all conditions affecting the work to be performed under this contract.

Carefully verify measurements at the site, determine the exact location of chases and openings required. Provide sleeves, inserts, and hangers as required. No columns, beams, joists, building foundations nor any other structural building component shall be cut, drilled or disturbed in any way. Conflicts shall immediately be brought to the attention of the Architect/Engineer. D. All excavation on sites containing existing buildings and existing services, shall be done with hand shovel to avoid damage to existing services. Any damage incurred shall be repaired in a manner approved by the Architect/Engineer at no cost to the Owner and with no extension of time limitation.

1.09 EXPERIENCE

A. The Mechanical Contractor shall be a licensed, reputable firm, regularly performing the type of work incorporated in this project and who also maintains, as part of the firm, a service department with qualified personnel who regularly perform this type of work. Upon request, show evidence of at least two jobs of similar character and size installed within the preceding two years. 1.10 ELECTRICAL WORK FOR MECHANICAL SYSTEMS

A. Controllers, and control equipment necessary for mechanical equipment operation shall be provided under Division 15 Mechanical. Starters not integral with mechanical equipment and starters mounted in motor control centers shall be provided under Division 16 Electrical. B. Power wiring for motors and installation of starters shall be provided under Division 16

Electrical Temperature, humidity, pressure and similar controls essential to the operation of mechanical systems, and wiring and conduit thereof, including interlock wiring, shall be provided under Division 15 of

Specifications, installed in accordance with requirements of Division 16. Motors shall be provided under Division 15 Mechanical of capacity required to operate equipment specified, but shall not be less than that specified.

All low voltage (120V and under) temperature control wiring for equipment shall be provided under this division. F. Conduit when required for control wiring shall be provided under this division.

1.11 MOTORS

under Division 16 Electrical. B. All motors shall be built in accordance with the current applicable IEEE. ASA, and NEMA standards. All general purpose motors shall be open drip-proof machines for installation indoors and/or in protected locations. Totally enclosed fan cooled (TEFC) motors shall be used in all areas of exposure to weather or other environmental contamination. Motors shall be rated explosion proof when located in hazardous atmospheres. Type II weather protected motors may be used in lieu of TEFC motors on roof mounted fan units and similar equipment.

C. Unless indicated otherwise, motors shall be NEMA Design B with a service factor of 1.15 with total temperature rise of 90 degrees C. (resistance measured) in 40 degrees C. ambient when powered from the system voltage feeding the motor. TEFC motors shall have a service factor of 1.00 with total temperature rise of 80 degrees C. in the above conditions. Motors located in areas exceeding 40 degrees C. ambient shall be factory rated for the ambient temperature of the motor environment. Single phase motors shall generally be NEMA Design N split phase induction motors with built—in thermal protectors. Single phase motors connected on loads requiring high starting torque shall be capacitor—start induction motors. Single phase motors of 1/10 HP or less may be shaded pole induction motors. Refer to Div. 16 drawings for three phase motor starters

D. If variations are proposed in motor horsepowers and/or characteristics from those specified, inform the Architect/Engineer of the change and shall then coordinate the change and shall pay all additional charges in connection with the change.

E. All motors supplied on this project one (1) HP and larger shall have a power factor not less than 85 percent under rated load conditions. Power factor of less than 85 percent shall be corrected to at least 90 percent under rated load conditions. Power factor corrective devices, installed to comply with this Code, shall be switched with the utilization equipment.

1.12 REMOVAL OF RUBBISH A Keep premises free from accumulations of waste material or rubbish caused by his employees or work. At completion of work, remove all tools, scaffolding, surplus materials, and rubbish from building and site. Leave premises and work in a clean orderly condition acceptable to the Architect/Engineer.

1.13 QUIET OPERATION AND VIBRATION corrected in an approved manner

1.14 EXAMINATION OF EXISTING CONDITIONS

A. Visit and carefully examine those portions of the site and/or present buildings affected by this work so as to become familiar with existing conditions and difficulties that will affect the execution of the work before submitting proposals. Submission of a proposal will be construed as evidence that such examination has been made

and later claims for labor, equipment or materials required because of difficulties encountered, which could have been foreseen had such examination been made, will not be recognized. 1.15 CLEANING AND ADJUSTMENTS

A. Upon completion of work, clean and lubricate fans, motors, and other running equipment and apparatus which he has installed and make certain such apparatus and mechanisms are in proper working order and ready to test.

B. Scratched or damaged painting shall be touched up as necessary to return the painting to "new" condition and appearance. All piping and equipment shall be thoroughly blown out under pressure and cleared of all foreign matter, wasting air, gas or water through temporary connections as long as necessary to thoroughly clean system before system is placed in operation. Use every precaution to prevent pipe compound, scale, dirt, welding and other objectionable matter from getting into the piping system and equipment. D. All cleaning shall be done prior to any sterilization, pressure testing, flow balancing or

equipment adjustment procedures. 1.16 DEMOLITION

No columns, beams, joists, building foundations nor any other structural building component shall be cut, drilled or disturbed in any way. Conflicts shall immediately be brought to the attention of the Architect/Engineer. Do not proceed until instructed in writing by the Architect/Engineer if conflicts between mechanical work and structural elements occur.

1.18 CLEANING AND PROTECTING A. During construction protect all piping and equipment from damage and dirt. Cap the open ends of all piping and equipment. B. After completion of project clean the exterior surface of equipment included in this section. remove all concrete residues and as directed touch up paint or completely repaint all damaged surfaces.

1.19 STORAGE OF MATERIALS A. All materials stored on site shall be properly protected from injury or deterioration. Materials

shall not be stored in contact with ground or floor. B. Do not remove manufacturer's packing materials until ready to install. Materials showing signs of corrosion, improper handling or storage shall be replaced at no cost to the Owner. C. Provide continuous protection for all equipment already installed.

1.20 WATERPROOFING

Furnish to other trades, as required, all necessary templates, patterns, setting plans, and shop details for the proper installation of work and for the purpose of coordinating adjacent work.

A. Each unit shall be identified by its system number and other appropriate designation by stenciling in letters of approved size and wording. Equipment requiring identification shall include: supply and exhaust fans, air conditioning and heating machinery and apparatus, control cabinets, and other

A. All motors shall be furnished and installed under Division 15 Mechanical and shall be wired

A. All equipment provided under this section shall operate under all conditions of load free of objectionable sound and vibration. Sound and vibration conditions considered objectionable shall be Vibration and sound control shall be by means of approved vibration eliminators or sound

attenuators in a manner as specified and as recommended by the manufacturer.

A. Where any work pierces waterproofing including waterproof concrete, the method of installation shall be as approved by the Owner before the work is done.

B. Provide all necessary sleeves, caulking and flashing required to make openings absolutely watertight. Waterproof flashing materials shall be compatible with base materials. 1.21 TESTS

A. All tests required to establish the adequacy, quality, safety, completed status and satisfactory operation of all systems to the satisfaction of the Architect/Engineer. Provide all instruments, labor and services necessary to conduct tests.

1.22 INSTRUCTIONS

A. Fully instruct Owner's personnel in the care and operation of mechanical systems and furnish a letter to the Architect/Engineer advising the particular person who has received such instruction.

1.23 Warranty

A. Furnish a letter addressed to the Architect/Engineer advising that the completed systems have been installed in accordance with the Plans and Specifications and that they are in proper operating condition. The Owner shall receive a written guarantee covering all defects in workmanship and material for a period of one year from date of final acceptance. Any defects appearing within this year period shall be repaired without additional cost to the Owner. Provide a five year manufacturer's warranty covering repair and replacement for all equipment and fixtures furnished for this project due to failure of the product.

1.24 ACCEPTANCE

- A. Before requesting final inspection:
- 1. Complete all work required. If any items are held in abeyance as incomplete for final inspection, list such items together with explanation for delay
- Submit statement that equipment is properly installed, adjusted, fully lubricated and operation is satisfactor
- 3. Certify in writing to the Architect/Engineer that the Owner's representative has been instructed as to the care and operation of the system and that catalog service and maintenance
- information has been turned over to the Architect/Engineer.
- 4. Submit copy of written guarantee. 5. Submit copy of other data as may be outlined in these specifications.

B. Copies of the above data shall be submitted to the Architect/Engineer prior to requesting final

1.25 BROCHURE

inspection

A. At the completion of work, submit a bound brochure containing the following:

1. Shop Drawings

- 2. Maintenance Manuals
- 3. Control Wiring and Piping Diagrams
- 4. Operating Instructions
- 5. Copy of Guarantee
- 6. As-Built Drawings

Where projects are of sufficient size to make a single brochure impractical, several brochures shall be prepared by trade and As-Built Drawings may be submitted as a separate item. C. Brochure shall be indexed and divided for reasonable clarity.

D. Brochure shall be turned over to the Architect/Engineer for review and approval. The contractor shall make modifications to the brochure as deemed necessary for compliance and clarity, by the Architect/Engineer, and re-submit the final brochure to the Architect/Engineer to be forwarded to the Owner.

END OF SECTION 15010

SECTION 15050 - MECHANICAL MATERIALS AND METHODS

1. <u>PART ONE – GENERAL</u>

1.01 RELATED DOCUMENTS

A. The general conditions and all requirements of the contract documents shall apply to all work of this Division.

1.2 WORK INCLUDED

A. Scheduling: Schedule work with Owner so as to avoid disruption of normal activities.

- B. Sheet Metal Duct Work
- C. Ductwork Accessories
- D. Diffusers
- E. Hangers and Supports
- F. Insulation

G. Test and Balance

1.3 REFERENCE STANDARDS

- A. American Society for Testing and Materials (ASTM).
- 1. ASTM C177-76: Steady-State Thermal Transmission Properties by means of the Guarded Hot Plate: Thermal Conductivity
- 2. ASTM C335-79: Steady-State Heat Transfer Properties of Horizontal Pipe Insulations: Thermal
- Conductivity.
- B. National Electrical Manufacturers Association (NEMA). 1. NEMA Standard MGI -12.536.

1.4 SUBMITTALS

A. Submit the following detailed manufacturer's product data and shop drawings for each item as follows

- 1. Metal Duct Work
- 2. Duct Work Accessories
- 3. Diffusers
- 4. Hangers and Supports
- 5. Insulation
- 6. Mechanical Equipment
- 1.5 MECHANICAL SYSTEMS DEMONSTRATION

A. Prior to inspection, demonstrate the proper operations of each system to the Owner's representative.

B. Instruct Owner's maintenance personnel in operation, adjustment, maintenance of equipment and system using the operation and maintenance data as the basis of instruction.

1.6 WARRANTIES AND BONDS

A. HVAC system to be warranted for one year from date of occupancy with five year minimum manufacturer warranty on equipment

B. Prior to final payment, compile manufacturer's written warranties for each major piece of equipment. In addition, warranty all apparatus furnished to remain in serviceable and operational condition for a period of at least one year from the date of substantial completion and acceptance of the work. This written warranty shall provide that any imperfections in material or function, as a whole or in part, by reason of defective workmanship, defective materials damaged as result of these defects or their repair, shall be made good to the satisfaction of the Owner's representative at the contractor's expense

2. <u>PART TWO – PRODUCTS</u>

2.1 METAL DUCT WORK

described herein.

A. Low Pressure Duct Work shall be constructed in accordance to SMACNA for static pressure 2 inches wg and less.

2.2 DUCTWORK ACCESSORIES

A. Balancing Dampers: For small outside air intake and branch duct taps provide single blade, locking quadrant dampers with shaft extension and mounting flange for insulated ducts, shaft bushings, blade stops, and quadrant handle.

B. Turning Vanes: Provide turning vanes constructed of 1-1/2" wide curved blades set at 3/4" o.c., supported with bars perpendicular to blades set at 2" o.c., and set into side strips suitable for mounting in ductwork. Barber-Colman Co. or approved equal.

A. Furnish and install grilles, registers, and diffusers as indicated on the drawings and as

2.4 GRILLES, REGISTERS, AND DIFFUSERS

B. Diffusers: Square ceiling mounted aluminum diffusers with frame assembly to match ceiling face. Provide vaned face, integral adjustable opposed blade damper, aluminum frame and vanes, round neck connection where required, and ADC certified performance. Finish off-white enamel. Manufacturers shall be Titus, Metalaire, Krueger, or approved equal.

2.5 HANGERS AND SUPPORTS

A. Duct Work: Except as otherwise indicated provide hot-dipped galvanized steel fasteners, anchors, rods, straps, trim and angles for support of duct work.

2.6 INSULATION

A. Diffusers, grilles, and sheet metal supply & return ductwork below ambient space temperature: Diffusers and grilles shall be insulated with glass fiber duct wrap insulation, factory applied foil faced vapor barrier, ASTM C518 and ASTM E84 certified testing procedures. Seal the insulation to the diffuser and connecting duct, and at all edges. Joint tape shall be 3-inch wide minimum foil-reinforced kraft type. Insulation thickness shall be 1-1/2 inches thick except in attic spaces and above ceiling insulation where it shall be a minimum of 2 inches thick.

PART THREE – EXECUTION 3.1 DUCT WORK

A. Install in accordance with approved shop drawings and manufacturer's written instructions.

B. Coordinate with architectural ceiling heights and lighting trades. Reflected ceiling plans shall be adhered to unless otherwise noted. C. Install work in accordance with construction schedules

D. Test duct work for leakage prior to concealing and prior to final testing. Submit these tests for approvals.

3.2 INSULATION

A. Duct Insulation - Glass Fiber Duct Wrap Insulation, ASTM C 1136, Type II: Provide insulation of the following thicknesses 1. Supply Duct: 2" thickness.

3.3 TEST AND BALANCE

A. Tester's Qualifications: Firm certified by Associated Air Balance Council (AABC) in those testing and balancing disciplines similar to those required for this project. B. AABC Compliance: Comply with AABC's Manual MN-1 "AABC National Standards", as applicable to mechanical air and hydronic distribution systems, and associated equipment and apparatus. C. Job Conditions: Do not proceed with testing, adjusting, and balancing work until work has been completed and is operable. Ensure that there is no latent residual work still to be completed. D. Examine installed work and conditions under which testing is to be done to ensure that work has been completed, cleaned, and is operable. Do not proceed with TAB work until satisfactory conditions

have been corrected in manner acceptable to Tester E. Test. adjust and balance environmental systems and components, as indicated, in accordance with procedures outlined in applicable standards. F. Prepare report of test results, including instrumentation calibration reports, in format

recommended by applicable standards. G. Patch holes in insulation, ductwork, and housings, which have been cut or drilled for test purposes, in manner recommended by original Installer.

H. Mark equipment settings, including damper control positions, valve indicators, fan speed control levers, and similar controls and devices, to show final settings at completion of TAB work. Provide markings with paint or other suitable permanent identification materials

Prepare report of recommendations for correcting unsatisfactory mechanical performances when system cannot be successfully balanced; including, where necessary, modifications which exceed requirements of contract documents for mechanical work J. Retest, adjust, and balance systems subsequent to significant system modifications, and resubmit test results

END OF SECTION

HEPNERARCHITECTS

HEPNER ARCHITECTS. INCORPORATED 601 SOUTH BOULEVARD, SUITE 101 TAMPA, FLORIDA 33606 813-229-0614 AA 0002617

STRUCTURAL ENGINEER DECAROWILLSON STRUCTURAL ENGINEERS 1725 E 5TH AVENUE TAMPA, FLORIDA 33605 813-248-8080 CERT AUTH NO. 25896

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER ANSTON-GREENLEES, INC. 1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919 CERT AUTH NO. 6093



NOT FOR CONSTRUCTION STEPHEN R. FORKNER, P.E. 80532 TO THE BEST OF MY KNOWLEDGE, THESE DRAWING AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2017 FLORIDA BUILDING COD

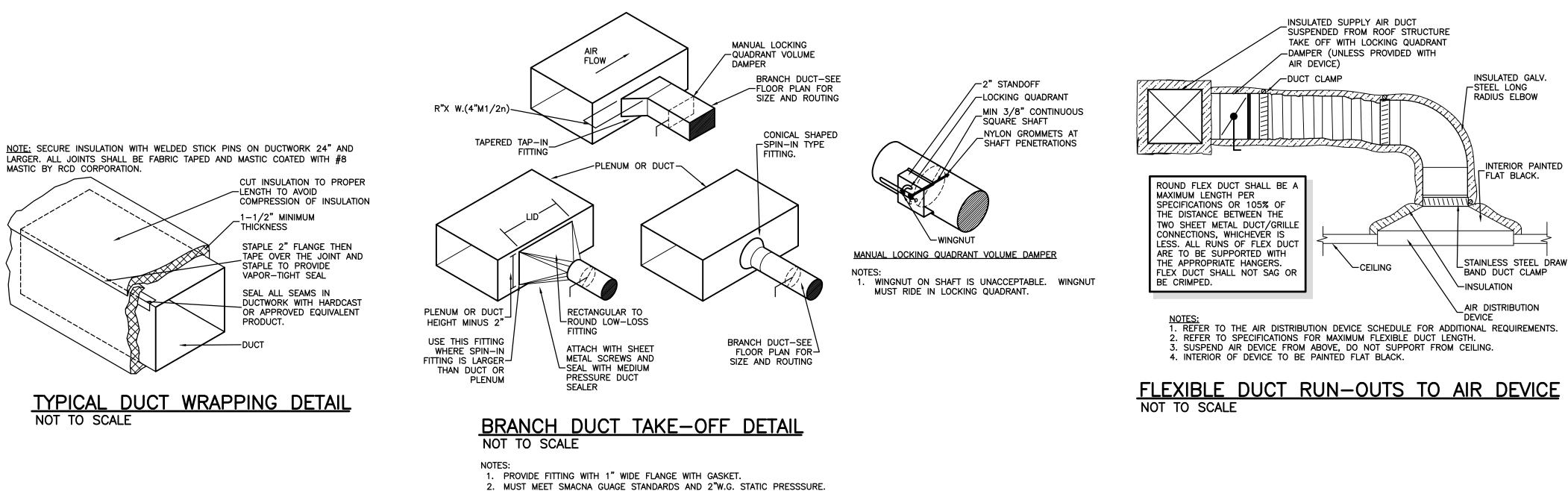
TAMPA SPORTS **AUTHORITY** -**BABE ZAHARIAS GRILL RENOV**

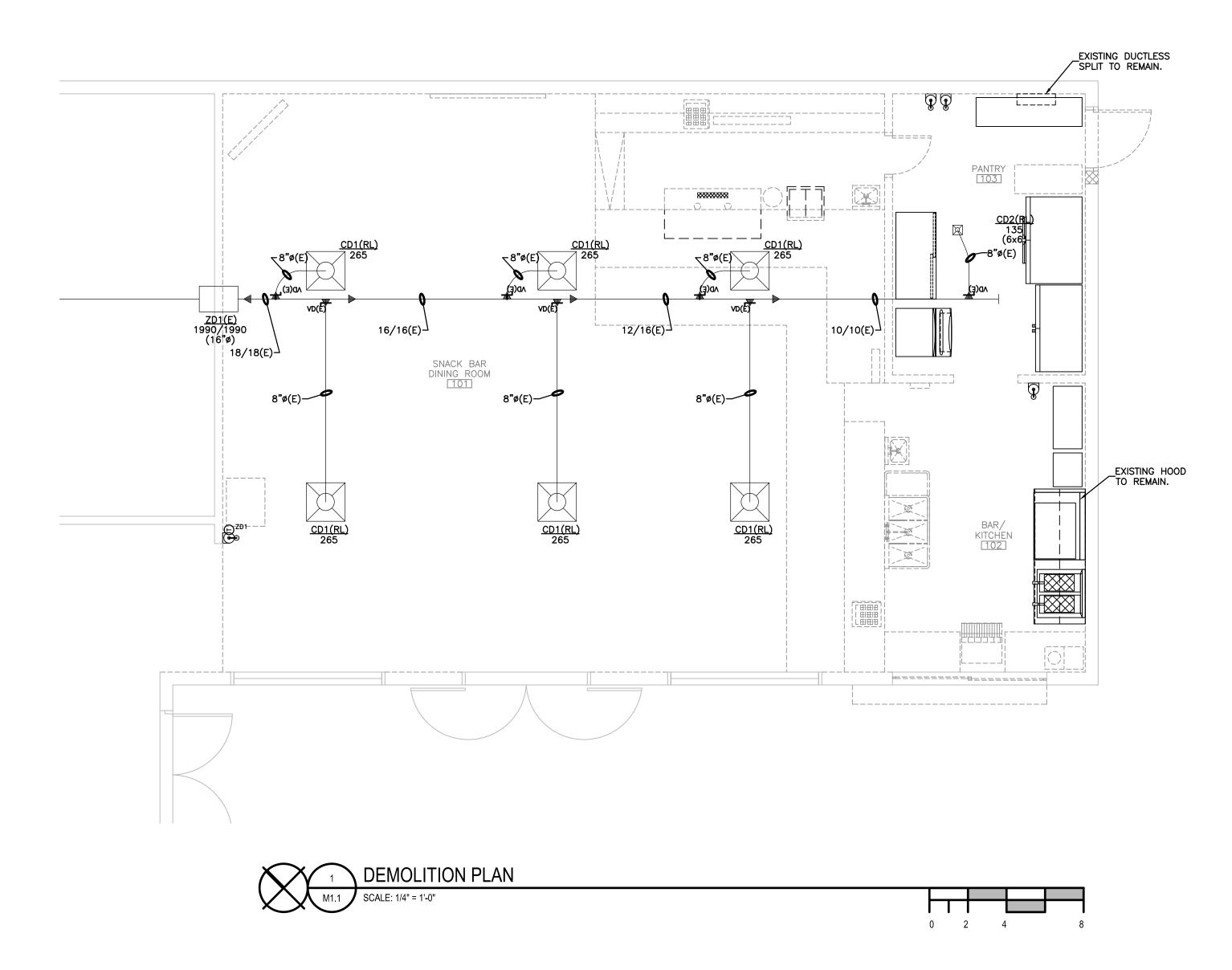
11412 N. FOREST HILLS DR TAMPA, FLORIDA 33612

TO THE BEST OF THE ARCHITECT'S THE PLANS AND SPECIFICATIONS A AND COMPLY WITH THE FLORIDA B	ARE COMPLETE
PROJECT NO.	3172
DISTRIBUTION	DATE
90% REVIEW SET	2/15/2019
100% REVIEW SET	2/22/2019

HVAC **SPECIFICATIONS**

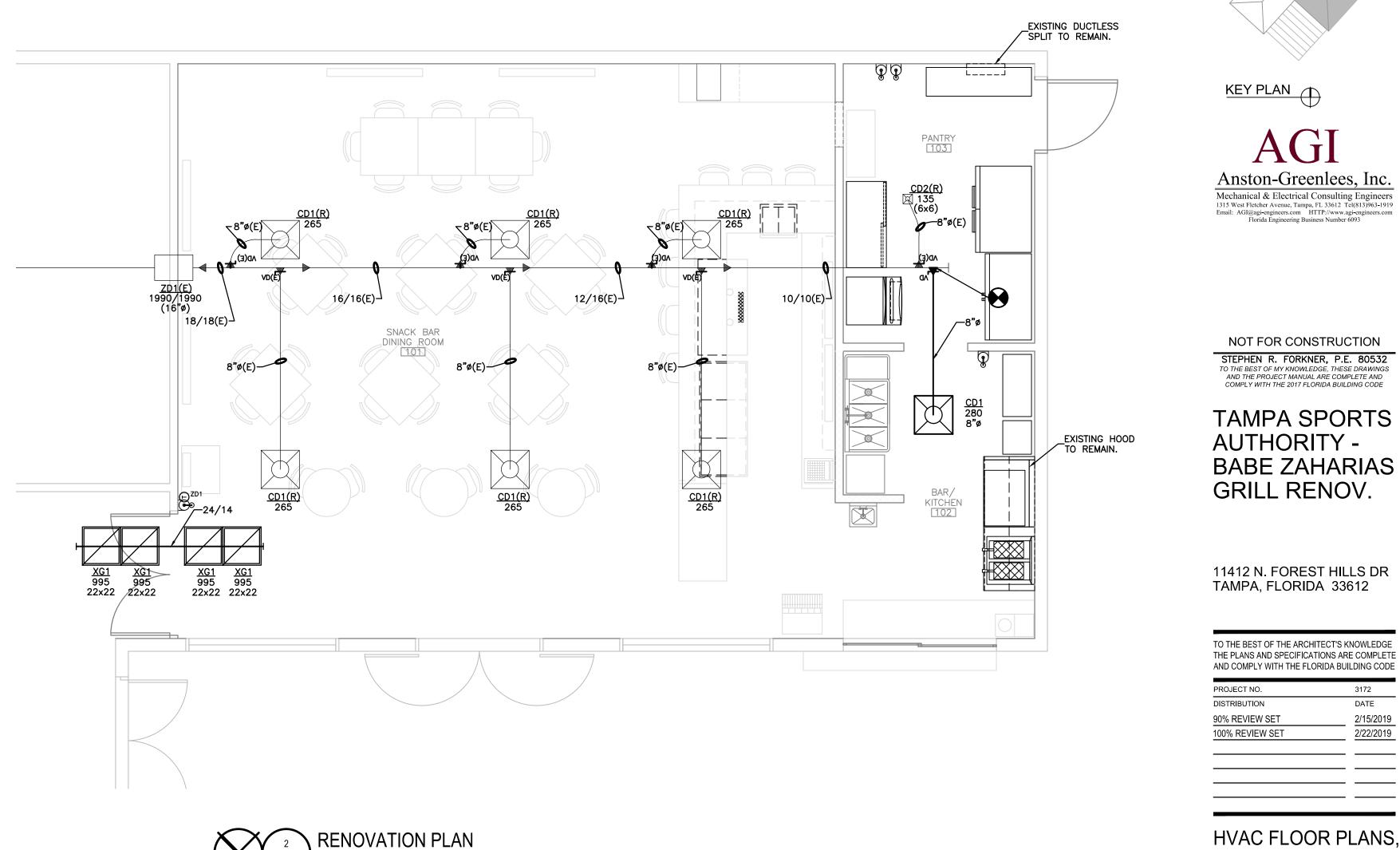






PRESSURE.

3. CONTINUOUS WELD LONGITUDINAL SEAM FOR NO LEAKAGE AT 2" W.G. STATIC



SCALE: 1/4" = 1'-0"

M1.1

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AIR DISTRIBUTION	N DEV	ICE SCH	HEDULE		
MARK		CD1	XG1		
NECK SIZE	INCH	-	22x22		
MODULE/FACE SIZE	INEH	24x24/24x24	24x24/23x23		
MANUFACTURER	-	METALAIRE	TITUS		
MODEL NUMBER	-	5700A	PAR-AA		
CONSTRUCTION	-	ALUMINUM	ALUMINUM		
NOTES	-	1, 2, 3	1, 3, 4		
NOTES: 1. NECK SIZE OF DEVICE IS EQUAL TO THE DUCT SIZE INDICATED ON THE DRAWING.					

PROVIDE WITH SQUARE TO ROUND ADAPTER. REFER TO PLANS FOR SIZE. SEE PLANS FOR SIZE.

WHERE GRILLE IS INDICATED TO BE LOCATED IN LAY-IN CEILINGS, PROVIDE 24X24 LAY-IN PANEL BORDER, WHITE IN COLOR.

REMARKS:

- REFER TO PLANS FOR EXACT LOCATIONS OF ALL DIFFUSERS, GRILLES Δ AND REGISTERS.
- COORDINATE FRAME STYLES WITH CEILING SYSTEM ACTUALLY FURNISHED.
- NC VALUES FOR DIFFUSERS, GRILLES AND REGISTERS SHALL NOT EXCEED 35 WITH A ROOM ABSORPTION RATE OF 10db ie.. 10-12 WATTS.
- REFER TO THE MECHANICAL LEGEND FOR A DESCRIPTION OF THE AIR DEVICE MARK.
- WHERE THE CONNECTING DUCT OR PLENUM CAN BE OBSERVED THROUGH THE FACE OF THE GRILLE, THE VISIBLE DUCTWORK SHALL BE PAINTED FLAT BLACK.

0 2

4

AND COMPLY WITH THE FLORID	A BUILDING CODE
PROJECT NO.	3172
DISTRIBUTION	DATE
90% REVIEW SET	2/15/2019
100% REVIEW SET	2/22/2019

HVAC FLOOR PLANS, DETAILS, AND SCHEDULES

M1.1

		ELECTRICAL LEGEND	
SYMBOL		DESCRIPTION	MOUNTING
	ً₿	LED LUMINAIRE, LETTER INDICATES TYPE. 1 = CKT. NO. , a = SWITCH DESIGNATION	CEILING - SEE FIXTURE SCHEDULE
B	₿	LED LUMINAIRE WITH EMERGENCY BATTERY BACK-UP, CIRCUIT, LETTER INDICATES TYPE.	CEILING - SEE FIXTURE SCHEDULE
A)	LED LUMINAIRE, LETTER INDICATES TYPE	CEILING – SEE FIXTURE SCHEDULE
	A	LED LUMINAIRE WITH EMERGENCY BATTERY BACK-UP, CIRCUIT, LETTER INDICATES TYPE.	CEILING – SEE FIXTURE SCHEDULE
μA)—	LED STRIP LIGHT, LETTER INDICATES TYPE.	CEILING – SEE FIXTURE SCHEDULE
A		LED LUMINAIRE, LETTER INDICATES TYPE	CEILING – SEE FIXTURE SCHEDULE
Ø)	LED LUMINAIRE, LETTER INDICATES TYPE	WALL – SEE FIXTURE SCHEDULE
x 🕸		EXIT LIGHT, LETTER INDICATES TYPE SINGLE OR DUAL FACED AS INDICATED ON DRAWINGS	SEE FIXTURE SCHEDULE
(vs)		LOW VOLTAGE OCCUPANCY SENSOR, VACANCY TYPE (MANUAL ON/AUTO OFF) SENSORSWITCH OR APPROVED EQUIVALENT. PROVIDE WIDER RANGE DEVICES WHEN NECESSARY.	CEILING MOUNTED OR WALL MOUNT AT 9'-0" AFF
03		LOW VOLTAGE (0-10V) OCCUPANCY SENSOR, PASSIVE INFRA-RED (ON/AUTO OFF) SENSORSWITCH OR APPROVED EQUIVALENT.	CEILING MOUNTED OR WALL MOUNT AT 9'-0" AFF
串。	٥	LIGHTING CONTROL WALL SWITCH. PUSH BUTTON ON/OFF. LOW VOLTAGE (0–10V) LIGHTING CONTROL WALL SWITCH WITH STAINLESS STEEL COVERPLATE. SENSOR SWITCH SPODM-SA OR APPROVED EQUIVALENT. COORDINATE WITH THE OCCUPANCY SENSOR. LETTER INDICATES FIXTURE GROUPING BY SWITCH	M.H. 48" AFF TO TOP
串		MULTI-WAY LIGHTING CONTROL WALL SWITCH (e.g. 3-WAY). PUSH BUTTON ON/OFF. LOW VOLTAGE (0-10V) LIGHTING CONTROL WALL SWITCH WITH STAINLESS STEEL COVERPLATE. SENSOR SWITCH sPODM-SA-3X OR APPROVED EQUIVALENT. COORDINATE WITH THE OCCUPANCY SENSOR. LETTER INDICATES FIXTURE GROUPING BY SWITCH	M.H. 48" AFF TO TOP
Φ		PUSH-BUTTON DIMMER SWITCH, ON/OFF/DIMMING - 0-10V LED DIMMER SHALL BE COMPATIBLE WITH LED DRIVER AND OCCUPANCY SENSOR. SENSOR SWITCH sPODM-SA-D OR APPROVED EQUIVALENT.	M.H. 48" AFF TO TOP
\$	a	LINE VOLTAGE SINGLE POLE SWITCH (120/277V), LETTER INDICATES FIXTURE GROUPING BY SWITCH	M.H. 48" AFF TO TOP
\$	A	MOTOR/HP RATED TOGGLE SWITCH SIZED PER MOTOR MANUFACTURER'S RECOMMENDATION, MINIMUM 20 AMP.	SURFACE, ADJACENT TO OR ON MOTOR
*	<	LINE VOLTAGE SINGLE POLE SWITCH (120/277V), KEY OPERATED	M.H. 48 [°] AFF TO TOP
Ð		SINGLE RECEPTACLE – 120VAC	M.H. 16" AFF TO BOTTOM
θ	F	DUPLEX RECEPTACLE – 120VAC	M.H. 16" AFF TO BOTTOM
θ	Þ	DUPLEX RECEPTACLE – 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
•	Þ	DOUBLE DUPLEX RECEPTACLE – 120VAC	M.H. 16" AFF TO BOTTOM
+	F	DOUBLE DUPLEX RECEPTACLE – 120VAC	MOUNTED 42" AFF TO BOTTOM OR AS NOTED
	F	DUPLEX RECEPTACLE – 120VAC, WP DENOTES WEATHERPROOF, GFI DENOTES GROUND FAULT PROTECTION.	M.H. 16" AFF TO BOTTOM
J		JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	AS NOTED
J	Я	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX UNLESS OTHERWISE NOTED	WALL MOUNTED
Q) H.D.	JUNCTION BOX OR OUTLET BOX, 4" SQUARE BOX, FOR HAND DRYER ELECTRICAL CONNECTION.	M.H. 44" AFF TO CENTER
<u> </u>	Y	MOTOR CONNECTION	AS NOTED

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS.

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ELECTRICAL LEGEND					
SYMBOL	DESCRIPTION	MOUNTING			
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED ABOVE CEILING OR BEHIND FINISHED WALL	N/A			
<u> </u>	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED BELOW FINISHED FLOOR OR UNDERGROUND.	N/A			
	RACEWAY EXPOSED ON WALL OR CEILING	N/A			
EG IG	HOMERUN TO PANELBOARD – LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT, MINIMUM 3/4" CONDUIT. NOTE: ANY HOMERUN WITHOUT FURTHER DESIGNATION INDICATES TWO #12 AWG AND #12 AWG EQUIPMENT GROUND. PC OUTLET REQUIRES SEPARATE NEUTRAL, MIN. #10 AWG. DEDICATED CIRCUIT REQUIRES SEPARATE NEUTRAL	N/A			
CUP DOWN	RACEWAY RISER, UP OR DOWN AS NOTED	N/A			
]	CONDUIT CAPPED	N/A			
▼	4"x4"x2-1/8" DEEP OUTLET BOX FOR COMMUNICATIONS WITH 1 " CONDUIT TO ACCESSIBLE CEILING SPACE. CABLING AND DATA JACK BY OWNER.	M.H. 16" AFF TO BOTTOM OR AS NOTED			
	4"x4"x2-1/8" DEEP TV OUTLET BOX WITH 3/4" CONDUIT W/BUSHING STUBBED INTO ACCESSIBLE CEILING SPACE. CABLING AND JACK BY OWNER.	M.H. 16" AFF TO BOTTOM OR AS NOTED			
	120/240 VOLT POWER PANELBOARD	M.H. 6'-0" TO TOP OR AS NOTED			
	NON-FUSIBLE SWITCH	M.H. 6'-0" TO TOP OR AS NOTED			
L	FUSIBLE SAFETY SWITCH	M.H. 6'-0" TO TOP OR AS NOTED			
۲	COMBINATION MOTOR STARTER	AS NOTED			
ιB	RECESSED ENCLOSED 50 AMP, 2-POLE, 208 VOLT, SINGLE PHASE CIRCUIT BREAKER FOR RANGE. MOUNT ABOVE COUNTER CENTERED BETWEEN COUNTER TOP AND OVERHEAD CABINETS. CIRCUIT BREAKER: SQUARE 'D' #QO250 FLUSH ENCLOSURE: SQUARE 'D' #QO2100BNF GROUND BAR KIT: SQUARE 'D' #PKOGTA2 3/4"C.; 3 #8, 1 #10 GND.	FLUSH MOUNTED			
-¢F	FIRE ALARM STROBE XX = CANDELA RATING, MINIMUM 75 CANDELA U.O.N.	TOP 6" BELOW CEILING OR 80" TO BOTTOM OF LENS A.F.F. WHICHEVER IS LOWER			
-œF	FIRE ALARM COMBINATION HORN/STROBE, LETTER IN CIRCLE INDICATES TYPE: C=CHIME, B=BELL, H=HORN, S=SPEAKER XX = CANDELA RATING, MINIMUM 75 CANDELA U.O.N.	TOP 6" BELOW CEILING OR 80" TO BOTTOM OF LENS A.F.F. WHICHEVER IS LOWER			
SF	FIRE ALARM HORN/SPEAKER, LETTER IN CIRCLE INDICATES TYPE: B=BELL, C=CHIME, H=HORN, S=SPEAKER WP=WEATHERPROOF TYPE	TOP 6" BELOW CEILING OR 80" TO CTR. A.F.F. WHICHEVER IS LOWER EXTERIOR HORNS MOUNTED AT 96" AFF			
Fs	FIRE ALARM SPEAKER. RECESSED IN THE CEILING OR SURFACE MOUNTED WHEN INDICATED WITH (SUR)	CEILING MOUNTED U.O.N. WITH (SUR)			
ÛF	FIRE ALARM TROUBLE BELL (SEE F.A. ONE LINE DIAGRAM)	AS NOTED			
F	FIRE ALARM MANUAL PULL STATION	M.H. 48" AFF TO TOP			
F _{RI}	FIRE ALARM REMOTE INDICATOR	M.H. 48" AFF TO TOP			
۶. F	FIRE ALARM FLOW SWITCH	AS NOTED			
F	FIRE ALARM TAMPER SWITCH	AS NOTED			
FD	FIRE ALARM MAGNETIC DOOR HOLDER COORDINATE MOUNTING HEIGHT WITH DOOR SUPPLIER	WALL MOUNTED			
Fs	FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED			
F _{SD}	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	DUCT MOUNTED (SEE MECHANICAL DWGS.)			
F _H	FIRE ALARM HEAT DETECTOR	CEILING MOUNTED			
 	HIGH TEMP. FIRE ALARM HEAT DETECTOR 190°F FIXED TEMP. RATING	CEILING MOUNTED			
F _R	FIRE ALARM CONTROL RELAY (AIR HANDLER SHUTDOWN SOLENOID VALVE, ETC.)	M.H. 60" A.F.F. TO BOTTOM OR AS NOTED			
F	FIRE RATED SMOKE DAMPER WITH MOTOR ACTUATOR PROVIDE RELAY AND CONTROL CIRCUIT TO CONTROL 120V SMOKE DAMPER POWER	AS NOTED			

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS.

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MECHANICAL/ELECTRICAL/PLUMBING ENGINEER ANSTON-GREENLEES, INC. 1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919 CERT AUTH NO. 6093

ELECTRICAL GENERAL NOTES: (THESE NOTES APPLY TO ALL SHEETS)

- 1. ALL ELECTRICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING: A. FLORIDA BUILDING CODE (FBC) 6TH EDITION (2017): THIS CODE INCLUDES THE 2017 FBC BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, FUEL GAS, ACCESSIBILITY, AND TEST PROTOCOLS VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC BUILDING CHAPTER 35; FBC MECHANICAL CHAPTER 15; FBC PLUMBING CHAPTER 14; FBC ENERGY CONSERVATION CHAPTER 6; AND FBC FUEL GAS CHAPTER 8) (EFFECTIVE DECEMBER 31, 2017)
- B. 6TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2017) C. 2014 NATIONAL ELECTRIC CODE
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS TO GAIN KNOWLEDGE OF THE SCOPE OF WORK INVOLVED.
- 3. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- 4. IN GENERAL, THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOULD NOT BE SCALED. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 5. ELECTRICAL INSTALLATION SHALL BE CLOSELY COORDINATED WITH ALL OTHER TRADES. REVIEW THE ENTIRE SET OF DOCUMENTS FOR COORDINATION. NO COST SHALL BE ASSOCIATED WITH ILL-TIMED INSTALLATION INCLUDING ANY REPAIRS OR REPLACEMENTS.
- 6. ALL CONDUITS AND BOXES SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT RUNS ARE SCHEMATIC IN NATURE. EXACT ROUTING TO BE DETERMINED IN THE FIELD UNLESS OTHERWISE NOTED.
- 7. APPLY A BITUMASTIC COATING FOR ALL EXPOSED METALLIC CONDUITS PENETRATING FLOOR SLABS FROM BELOW GRADE.
- 8. PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, ETC. FOR A COMPLETE INSTALLATION. 9. PATCH, REPAIR AND REPAINT ALL WALLS THAT HAVE BEEN DAMAGED DUE TO ELECTRICAL ROUGH-IN. REMOVE ANY UNUSED CONDUIT AND WIRE.
- 10. PROVIDE FIRE-STOPPING AT ALL FIRE WALL PENETRATIONS. USE A U.L. APPROVED SYSTEM LISTED FOR THE ASSOCIATED INSTALLATION.
- 11. ALL CONDUCTORS SHALL BE STRANDED COPPER, THHN/THWN, MINIMUM #12 AWG. ALL CONDUCTORS SHALL BE IN CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO A MAXIMUM OF 6'–0" IN LENGTH.
- 12. MC CABLE OR OTHER PREMANUFACTURED CABLING SHALL NOT BE USED.
- 13. ALL CIRCUITS SHALL CONTAIN A SEPARATE, GREEN, COPPER GROUNDING CONDUCTOR.
- 14. ALL RECEPTACLES SHALL HAVE A GROUND TERMINAL.
- 15. RECESSED LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE AT (4) POINTS. DO NOT SUPPORT FIXTURES FROM THE CEILING GRID, MECHANICAL PIPING, DUCTWORK, CONDUIT OR OTHER NON-STRUCTURAL BUILDING MEMBERS. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR INSTALLATION.
- 16. THE COLOR OF ALL RECEPTACLES, TOGGLE SWITCHES AND COVERPLATES SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ORDERING.
- 17. PANELBOARDS SHALL BE ACCURATELY LABELED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.
- 18. SYSTEMS (FIRE ALARM, INTERCOM, TV, VOICE/DATA, SECURITY) WIRING SHALL NOT BE RUN UNDERGROUND. CABLING/SERVICES FROM ONE BUILDING TO ANOTHER MAY RUN UNDERGROUND. WIRING SHALL BE RATED SUCH USE.
- 19. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
- 20. SEE SPECIFICATION FOR MORE REQUIREMENTS

ELECTRICAL DRAWING INDEX

- ELECTRICAL LEGEND AND NOTES E0.1 LUMINAIRE SCHEDULE AND CUT SHEETS
- E0.2 LIGHTING PLAN E1.1
- POWER AND SYSTEMS PLAN E2.1 ELECTRICAL RISER DIAGRAM E3.0
- E4.0 ELECTRICAL DETAILS

ABBREVIATIONS: ABOVE FINISHED FLOOR AFF GYPSUM WALL BOARD GWB ABOVE FINISHED GRADE AFG H.D. HAND DRYER EXISTING E INT INTERCOM/PAGING CABINET ETR EXISTING TO REMAIN MTG MOUNTING EWC ELECTRIC WATER COOLER MTD MOUNTED EWH ELECTRIC WATER HEATER MOUNTING HEIGHT м.н. EQUIPMENT GROUND EG N/A NOT APPLICABLE ESB ENERGY SAVING BALLAST PROJ PROJECTOR LOCATION EXP EXPLOSION PROOF U.O.N. UNLESS OTHERWISE NOTED FIRE ALARM CONTROL PANEL FACP REMOVE R FATC FIRE ALARM TERMINAL CABINET RELOCATED RL GFI GROUND FAULT PROTECTION WEATHER PROOF WP G, GND GROUND



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ELECTRICAL LEGEND AND NOTES



FIXTURE 'A' AND 'A1' 👰 gotham°



- E	:A	IU	RF	S	

OF	PTICAL SYSTEM
٠	Patented Bounding Ray™ optical design
٠	45° cutoff to source and source image
٠	Top-down flash characteristic
٠	Polycarbonate lens integral to light engin
М	ECHANICAL SYSTEM
•	16-gauge galvanized steel construction; thickness

thickness

Telescopic mounting bars maximum of 3 adjustment

- Toolless adjustments post installation
 Junction box capacity: 8 (4 in, 4 out) 1.
- Light engine and driver accessible through ELECTRICAL SYSTEM
- Fully serviceable and upgradeable lense
- 70% lumen maintenance at 60,000 hou
 Tested according to LM-79 and LM-80 s
- Overload and short circuit protected
 2.5 SDCM; 85 CRI typical, 90+ CRI opt
- LISTINGS
- Fixtures are CSA certified to meet US an wet location, covered ceiling. ENERGY S

WARRANTY 5-year limited warranty. Complete warranty www.acuitybrands.com/CustomerResources/

Note: Actual performance may differ as a result c

application. All values are design or typical values, mea at 25 °C.

	ble Luminaire
	apable luminaire, which has rol compatibility with simpl
All configuration	is of this luminaire meet the
 This luminaire is by a shaded back 	part of an A+ Certified solu kground [*]
	part of an A+ Certified solu the luminaire level, when se
To learn more about	A+, visit <u>www.acuitybrand</u>
*See ordering tree for	or details
/0-6-0PEN	GOTHAM ARC
GE 1 OF 9	© 2014-2019

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	LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	VOLTS	WATTS	BALLAST (IF APPLICABLE)	LAMPS	MOUNTING	
A	6" OPEN REFLECTOR, LED DOWNLIGHT WITH WHITE TRIM. DUAL VOLTAGE. GOTHAM #EVO-40/15-6AR-WD-LSS-MVOLT-GZ10, OR APPROVED EQUIVALENT	120	19	LED DRIVER 0-10 VOLT DIMMING	LED 1,500 LUMENS, 4000K	RECESSED FLANGE	
A1	SAME AS TYPE 'A' EXCEPT EQUIPPED WITH EMERGENCY BATTERY BACKUP. GOTHAM #EVO-40/15-6AR-WD-LSS-MVOLT-GZ10-EL, OR APPROVED EQUIVALENT	120	19	LED DRIVER 0-10 VOLT DIMMING, EMERGENCY BATTERY BACKUP	LED 1,500 LUMENS, 4000K	RECESSED FLANGE	
с	4' LENGTH, NARROW HOUSING LED LUMINAIRE, ACRYLIC LENS, DIE-FORMED METAL HOUSING. LITHONIA #LBL4-3000LM-80CRI-40K-NODIM- GTL-MVOLT OR APPROVED EQUIVALENT	120	32	LED DRIVER	LED 3000 LUMENS, 4000K	SURFACE	

. yi dilikiw.		Architectural	Downlighting	
	LED Dow 6" EVO Downligh) [®]		DESIGN2SHIP
	Solid-Sta	ate Lighting		Love ENER
lesign (U.S. Patent No. 5,800,050)	NOMINAL		NSUMPTION MAT	
age	LUMENS	DELIVERED LUMENS*	WATTAGE	LUMENS per WATT
engine	1000	1074	11.8	91.4
ion; maximum 1-1/2" ceiling	1500	1595	18.5	86.2
-	2000	2064	23.2	89.2
of 32", preinstalled, 4" vertical	2500	2660	29.5	90.2
n :) 12AWG rated for 90°C	3000	3077	36.6	84.1
aperture	3500	3665	42.1	87.1
	4000	4050	48.1	84.2
nsed LED light engine hours	4500	4623	46.9	98.6
30 standards	5000	5256.3	48.66	108.0
optional	6000 8000	6371.4 8246.7	57.61 74.89	110.6
	10000	10636.5	97.13	110.1
S and Canadian standards; GY STAR® certified product.	12000	12332	115.0	103.3
	12000	15776	150.9	107.2
anty terms located at:	17500	17801	175.3	101.5
ces/Terms and conditions.aspx		180 - 3500K - MWD - Clea		
Ilt of end user environment and neasured under laboratory conditions				
re has been designed and tested to provide consistent color a mple commissioning. the Acuity Brands' specification for chromatic consistency solution for nLight® control networks when ordered with c				
solution for nLight® control networks, providing advanced n selection includes driver and control options marked by a				

<u>FIXTURE 'B'</u>

🔶 LITHONIA LIGHTING°	Catalog Number
FEATURES & CRECIFICATIONS	Notes
FEATURES & SPECIFICATIONS INTENDED USE — LBL LED wraparound provides a digital lighting platform to deliver general ambient	Туре
lighting for surface-mount applications. The LED system delivers long life and excellent color to ensure a qual- ity, low-maintenance lighting installation. Ideal for closets, storage rooms, hallways, stairwells and offices.	
CONSTRUCTION — Metal parts are die formed from code-gauge steel. Prismatic diffuser is 100% acrylic	
with sonically welded luminous ends. Continuous side flanges on fixture body provide light trap and continu- ous diffuser support to prevent accidental opening and simplify maintenance.	Low-Profile Curved-E LED Wrapa
Finish: Five-stage iron phosphate pretreatment assures superior paint adhesion and rust resistance.	
Painted parts finished with high-gloss, high-reflectivity baked white polyester enamel (low VOC). OPTICS — Curved prismatic diffuser with linear side prisms and highly transmissive overlay minimizes lamp	LBI
image and provides high-angle brightness control. Luminous end plates soften appearance for improved aesthetics.	LDI
ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality	
of illumination for extended service life. 90% LED lumen maintenance at 50,000 hours (L90/50,000). The LEDs have a CRI of 82.	4' LENGTH, NARROW H
eldoLED driver options deliver choice of dimming range and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.	
Step-level dimming option allows system to be switched to 50% power for compliance with common energy	
codes while maintaining fixture appearance. CONTROLS — Pair the LBL with the fixture mount Sensor Switch LSXR sensor for additional energy sav-	
ings when the space is unoccupied. The LSXRHL sensor dims the fixture down to a low-level setting when	DE 🧟 eldoLED 🕼
there is no occupancy. This option is ideal for stairwells, back rooms, and closets due to the low occupancy level in those spaces.	
Optional nLight® embedded controls continuously monitor system performance, allow for constant lumen management / compensation function, facilitate simple "plug-and-play" network and controls upgrading	
via Cat-5 cable. Ballast disconnect provided where required to comply with US and Canadian codes.	
LISTINGS — CSA certified to meet U.S. and Canadian standards. Damp listed. DesignLights Consortium [®] (DLC) Premium qualified product. Not all versions of this product may be DLC	
Premium qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.	
WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions_	
	** Capable Luminaire
	This item is an A+ capable luminaire, which has been designed and tested to
	provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.
	All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
	 This luminaire is part of an A+ Certified solution for nLight[®] control networks when ordered with drivers marked by a shaded background*
	 This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*
	To learn more about A+, visit <u>www.acuitybrands.com/aplus</u> .
	*See ordering tree for details

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AGI Anston-Greenlees, Inc. Mechanical & Electrical Consulting Engineers 1315 West Fletcher Avenue, Tampa, FL 33612 Tel(813)963-1919 Email: AGI@agi-engineers.com HTTP://www.agi-engineers.com Florida Engineering Business Number 6093

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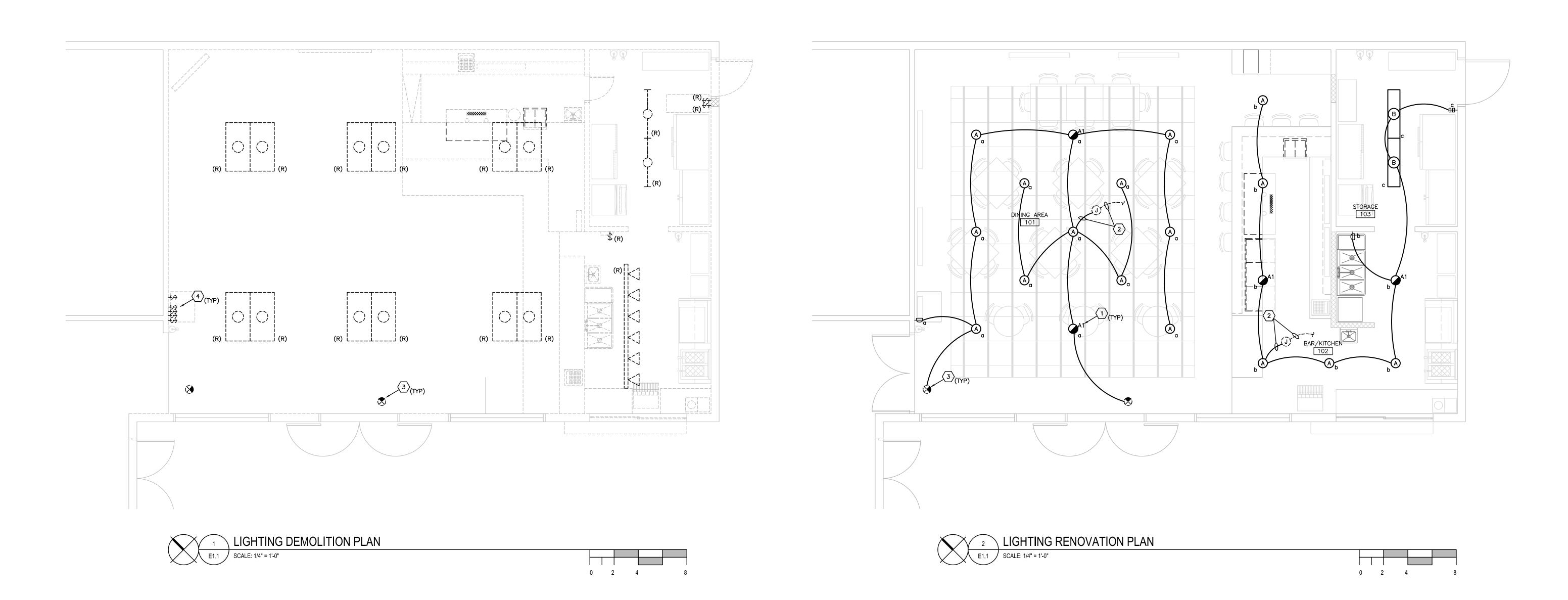
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LUMINAIRE SCHEDULE AND CUT SHEETS





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LIGHTING DEMOLITION NOTES:

- 1. SPLICE AND EXTEND CIRCUITS AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING LUMINAIRES AND OTHER DEVICES WHICH ARE TO REMAIN.
- 2. DASHED LUMINAIRES/DEVICES INDICATES EXISTING.
- 3. LUMINAIRES/DEVICES INDICATED WITH (R) ARE TO BE REMOVED.
- 4. EXISTING LIGHTING JUNCTION BOXES WHICH ARE NOT BEING REUSED SHALL BE REMOVED AND THE WALLS OR CEILINGS

AREA.

ALL DEVICES ON DASHED WALLS SHALL BE REMOVED. EXTEND CIRCUITS AS NECESSARY TO DEVICES WHICH ARE TO REMAIN TO MAINTAIN CIRCUIT CONTINUITY.

SHALL BE PATCHED AND PAINTED TO MATCH THE SURROUNDING

DRAWING NOTES:

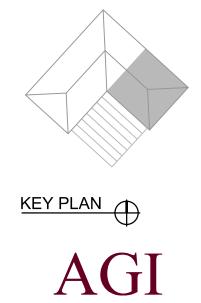
- 1 FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SWITCHED AFTER THE EMERGENCY PACK SUCH THAT THE BATTERY PACK CONTINUOUSLY SEES NORMAL POWER. THE EMERGENCY BATTERY BACK-UP SHALL BE UNSWITCHED AND SHALL AUTOMATICALLY ILLUMINATE THE FIXTURE TO FULL BRIGHTNESS IN THE EVENT OF LOSS OF NORMAL POWER. TYPICAL FOR ALL HALF-SHADED FIXTURES.
- 2 EXTEND AND MODIFY EXISTING LIGHTING BRANCH CIRCUITS FOR THE NEW LUMINAIRE LAYOUT. PROVIDE ALL REQUIRED MODIFICATIONS AND EXTENSIONS TO THE EXISTING LIGHTING CIRCUITS TO CONNECT THE NEW LUMINAIRES, CONNECT THE EXISTING SWITCHES AND CONNECT THE NEW OCCUPANCY SENSORS. EXISTING LIGHTING CIRCUIT HOMERUNS CAN BE REUSED.
- 3 REMOVE, CLEAN AND REINSTALL EXISTING EXIT LIGHTS. EXIT LIGHTS SHALL BE CONNECTED TO LOCAL NORMAL POWER LIGHTING CIRCUIT BUT SHALL NOT BE SWITCHED.
- $\langle 4 \rangle$ REMOVE EXISTING SWITCHES THAT CONTROL DINING ROOM LIGHTING.

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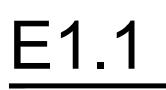
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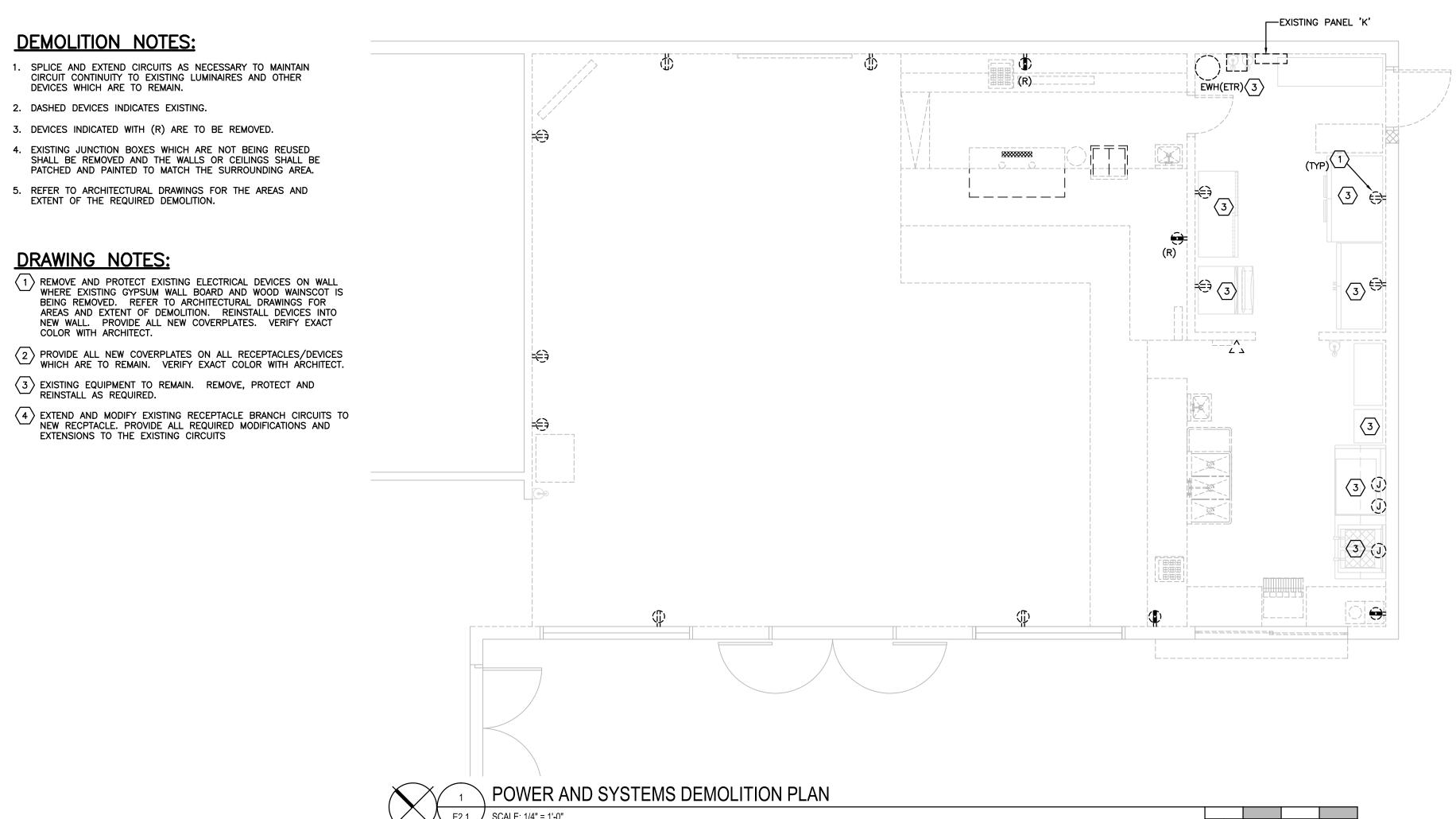
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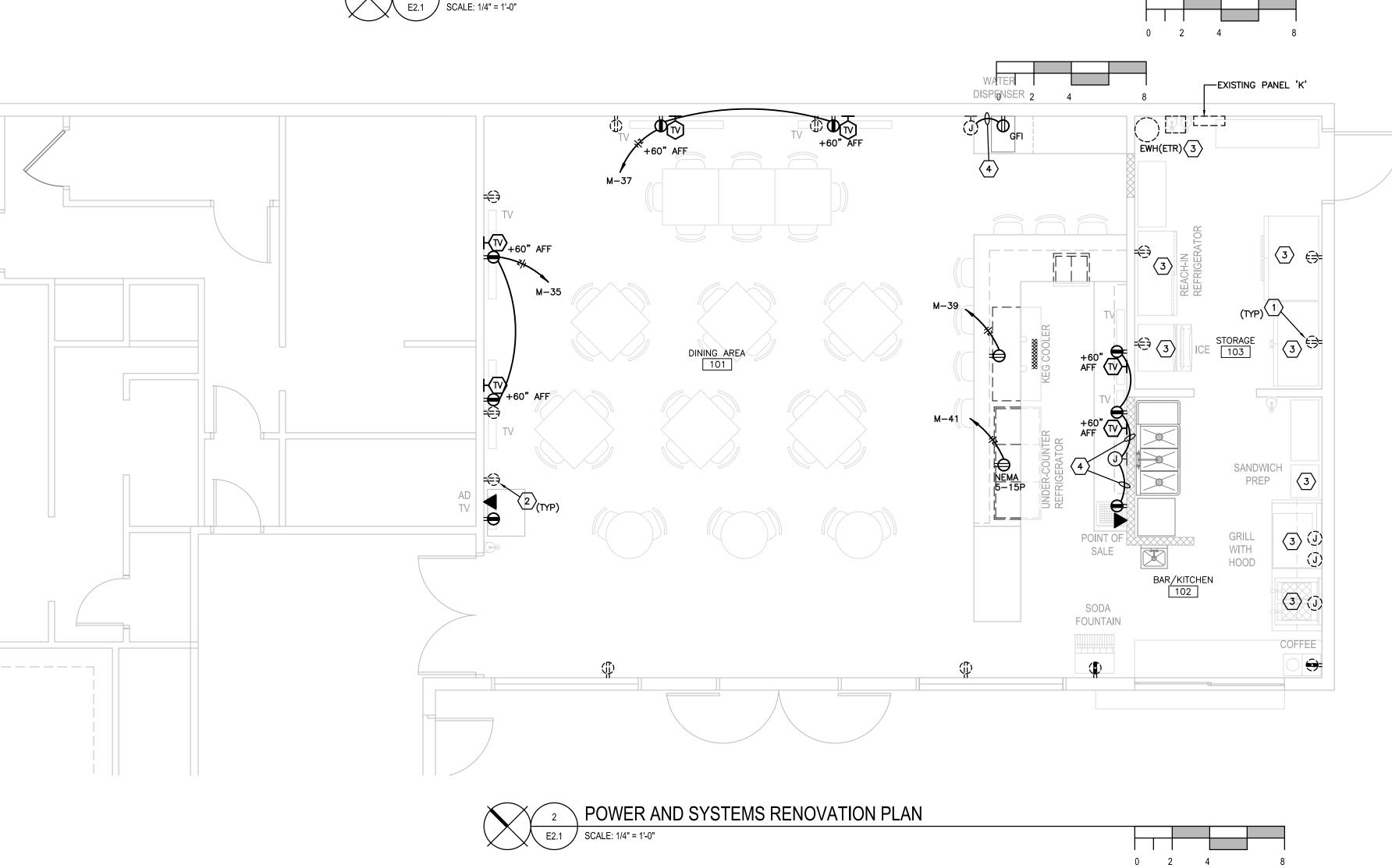
LIGHTING PLAN



EXISTING PANEL 'M' EXISTING 400/3 MAIN DISCONNECT -----

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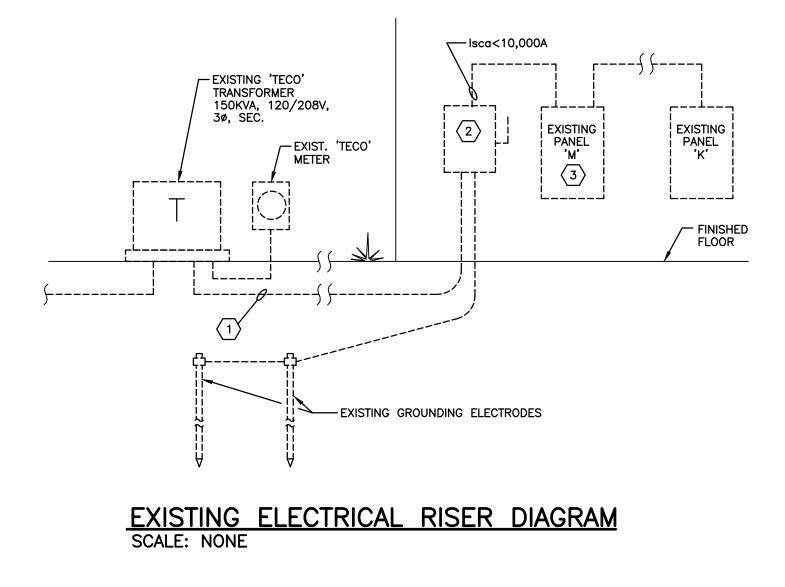
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ELECTRICAL RENOVATION PLAN



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RISER DIAGRAM NOTES:

- $\left< 1 \right>$ EXISTING 120/208V, 400A, 30 SERVICE FROM TAMPA ELECTRIC COMPANY.
- $\langle 2 \rangle$ EXISTING 208V, 3–POLE, MAIN DISCONNECT FUSED AT 400 AMPS.
- 3 EXISTING 400A PANEL 'M', 120/208V, 3ø, 4W, 44-CIRCUIT PANELBOARD.
- EXISTING PANEL 'K' 120/208V, 200A, 3Ø, 4W, 44-CIRCUIT PANELBOARD.

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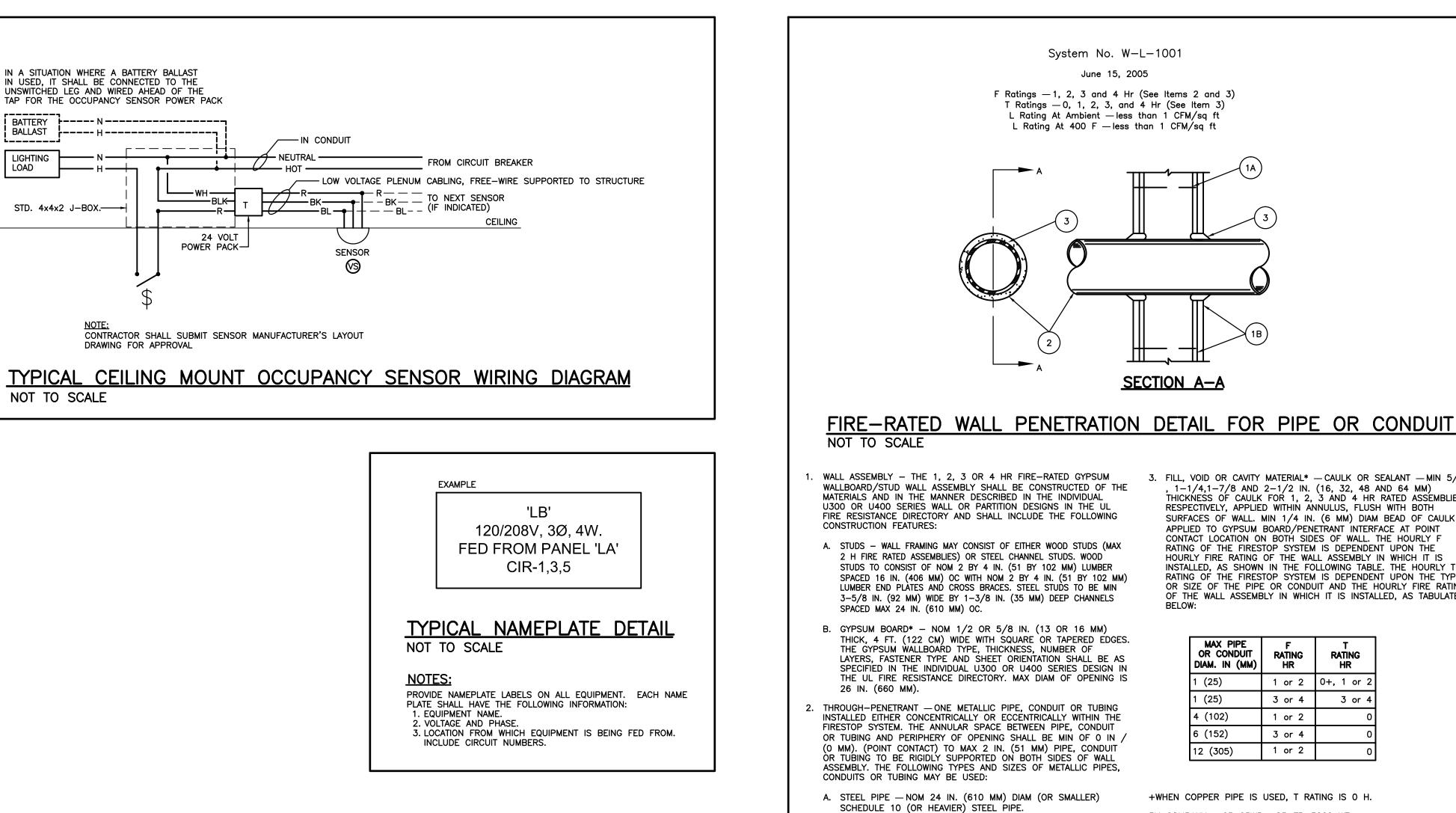
ELECTRICAL RISER DIAGRAM



BATTERY BALLAST _____ LIGHTING LOAD

NOT TO SCALE

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- B. IRON PIPE NOM 24 IN. (610 MM) DIAM (OR SMALLER) DUCTILE IRON PRESSURE PIPE.
- TYPE L (OR HEAVIER) COPPER TUBING
- REGULAR (OR HEAVIER) COPPER PIPE.
- MAY BE USED:
- 2) NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE
- ASSEMBLY. WARD MFG L L C

SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER)

C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING

D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER)

E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER)

F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING

1) NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC

METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. GASTITE, DIV OF TITEFLEX 3) NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR

MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL

3. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8. , 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED

MAX PIPE OR CONDUIT DIAM. IN (MM)	F RATING HR	T RATING HR
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

3M COMPANY - CP 25WB+ OR FB-3000 WT.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

LAST UPDATED ON 2005-06-15

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MECHANICAL/ELECTRICAL/PLUMBING ENGINEER ANSTON-GREENLEES, INC. 1315 WEST FLETCHER AVENUE TAMPA, FLORIDA 33612 813-963-1919 CERT AUTH NO. 6093



NOT FOR CONSTRUCTION ROBERT C. ANSTON, P.E. 40858 TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE 2017 FLORIDA BUILDING CODE

TAMPA SPORTS AUTHORITY -**BABE ZAHARIAS GRILL RENOV.**

11412 N. FOREST HILLS DR TAMPA, FLORIDA 33612

TO THE BEST OF THE ARCHITECT THE PLANS AND SPECIFICATIONS AND COMPLY WITH THE FLORIDA	ARE COMPLETE
PROJECT NO.	3172
DISTRIBUTION	DATE
90% REVIEW SET	2/15/2019
100% REVIEW SET	2/22/2019

ELECTRICAL DETAILS

