

FREESTANDER

	651 UNIONVILLE RD, SEBEWAING, MI 48759	
	PROJECT # 802757	
ABBREVIATIONS	SYMBOLS	

					r n	OJE	ار # OUZ <i>I</i>	31	
ABE	BREVIATIONS					SYMBO	DLS		
ABV AFF A/C ARCH @	ABOVE ABOVE FINISHED FLOOR AIR CONDITIONING ARCHITECT(URAL) AT	FT(') FIN FL FD FLUR F.R.	FEET, FOOT FINISH(ED) FLOOR(ING) FLOOR DRAIN FLUORESCENT FIRE RATED	PNT P-LAM PLWD POL PROJ P	PAINT(ED) PLASTIC LAMINATE PLYWOOD POLISHED PROJECT PLATE	1 A1	ELEVATION MARKER	\(\rightarrow	ELEVATION DATUM
BLK BOT BLDG	BLOCK(ING) BOTTOM BUILDING	F.E.	FIRE EXTINGUISHER GYPSUM WALL BOARD	RE REF REM	REFERENCE REFRIGERATOR	A1 A1	ENLARGED DETAIL INDICATOR		BREAK LINE
CLG C CIRC CLR COL	CEILING CENTER LINE CIRCUIT CLEAR COLUMN	HDW HDWD HVAC HM	HARDWARE HARDWOOD HEATING/VENTILATION/AIR CONDITIONING HOLLOW METAL	REQ'D REV	REMOVE(D)(ABLE) REQUIRED REVISION(S) REVISED ROOM ROUGH OPENING ROUND		WALL SECTION MARKER		EXISTING DOOR
CONC CMU CONST CONT	CONCRETE CONCRETE MASONRY UNIT CONSTRUCTION CONTINUOUS	IN(") ID INSUL	INCH INSIDE DIAMETER INSULATION	SCH SEC SHT	SCHEDULE SECTION SHEET	A1			NEW DOOR
CTR DTL DIA	COUNTER DETAIL DIAMETER	INT LL	INTERIOR LANDLORD	SIM SC SPEC SS	SIMILAR SOLID CORE SPECIFICATION(S) STAINLESS STEEL	XXX	INTERIOR ELEVATION MARKER		GYPSUM WALL BOARD
DIM DN DWG	DIMENSION DOWN DRAWING	MANUF MFG MECH MISC	MANUFACTURE(R) MANUFACTURE(R) MECHANICAL MISCELLANEOUS	STO STRUCT SUSP	STAINLESS STELL STORAGE STRUCTURAL SUSPENDED	⟨x⟩	DEMOLITION NOTE		WOOD TRIM
EA ELEV EQ EQPT	EACH ELEVATION EQUAL EQUIPMENT	M.R. MULL NIC	MOISTURE RESISTANT MULLION NOT IN CONTRACT	TEL TYP THRU	TELEPHONE TYPICAL THROUGH	\bigvee	WALL CONSTRUCTION TYPE		NEW WALL CONSTRUCTION
EXIST EXP EXT EIFS	EXISTING EXPOSED EXTERIOR EXTERIOR INUL.	NTS NUM OFF	NOT TO SCALE NUMBER OFFICE	VCT VEST W/	VINYL COMPOSITION TILE VESTIBULE WITH	X	REVISION MARKER		CMU
	FINISH SYSTEM	OC OPN'G OPH OD	ON CENTER(S) OPENING OPPOSITE HAND OUTSIDE DIAMETER	W/0 WD WDB	WITHOUT WOOD WOOD BASE	(X) (XXX)	DOOR NUMBER		CONCRETE
GENERAL NOTES NEW WORK NOTES									
	ONSTRUCTION SHALL COMPLY WITH	I ALL APPLICAB			NT IDENTIFICATION SIGN AT REA	AR DOOR PER LAND	LORD'S 13. CONTRACTOR SHALL	NOTIFY CONSTRUCTION PM	OF ANY NECESSARY
2. AL RE 3. AL DE 4. W	TIONAL CODES AND REGULATIONS OMPLY WITH LANDLORD'S CRITERIA L WOOD FRAMEWORK, WOOD BLOC TARDANT TREATED PER CODE. L FINISH MATERIALS SHALL MEET F EVELOPMENT RATING CLASS C (OR ALL CONSTRUCTION BY THE TENAN TE CONTRACTOR SHALL FIELD VERI	(UNLESS PREC CKING AND PLY LAME SPREAD CLASS 3). IT'S CONTRACT	CLUDED BY CODE). WOOD SHALL BE FIRE AND SMOKE OR IS SHOWN HATCHED.	TO JL INDUSTR PROVIDE WALL PROVIDE "FIRE UNIT. CONTRAI TAGGED.	TED FIRE EXTINGUISHERS TO BE RIES MODEL COSMIC 5E. LOCATE BRACKETS AND MOUNT CONTR EXTINGUISHER" SIGNS ON WALL CTOR SHALL HAVE EXTINGUISHE TOR SHALL VERIFY THAT TOILET	E EXTINGUISHERS A OLS AT 48" AFF MAX L DIRECTLY ABOVE ERS INSPECTED ANI	O. SIMILAR 14. CONTRACTOR SHALL S SHOWN. TENANT'S EXTERIOR REMAIN WHICH ARE D OF PREVIOUS TENAN PAINTED TO MATCH E IS IMPERCEPTIBLE. C	RIOR TO PERFORMING ANY O REMOVE AND DISPOSE OF A SIGNAGE LEFT BEHIND. ALL I DAMAGED OR OTHERWISED I IT SIGNAGE SHALL BE PATCH EXISTING ADJACENT MATERIA CONTRACTORS SHALL NOT IN AND WILL BE HANDLED VIA CH	ANY AND ALL PREVIOUS EXISTING MATERIALS TO DISTURBED BY REMOVAL HED OR REPAIRED AND ALS SO THAT THE REPAIR CLUDE THIS SCOPE OF



FAMILY DOLLAR

SEE 'GENERAL SITE ACCESSIBILITY NOTES', SHEET CS1, FOR ADDITIONAL REQUIREMENTS.

GENERAL SITE

KEY PLAN

ACCESSIBILITY NOTES

IN ACCORDANCE WITH CHAPTER 11, ACCESSIBILITY - SECTIONS 1104 AND 1106 OF THE MICHIGAN BUILDING CODE, THE EXTERIOR ROUTES OF TRAVEL AND ACCESSIBLE PARKING ARE EXISTING PRIOR TO THE OCCUPANCY OF THE NEW TENANT. NO CHANGE OF OCCUPANCY OR EXTERIOR SITE MODIFICATION SHALL OCCUR WITHOUT PRIOR PERMITTING AND COMPLIANCE TO ABOVE MENTIONED CODE. REQUIRED SITE DEVELOPMENT OR COMPLIANCE TO ABOVE MENTIONED CODE SHALL BE SOLE RESPONSIBILITY OF LANDLORD AND/OR OWNER OF EXISTING BUILDING AND SITE.

FAMILY DOLLAR: RISK CLASS "0"

NO SECURITY MEASURE NECESSARY

INDEX OF DRAWINGS

/x\|/x\|/x\|/x\|/x\|/x\

- 5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BID TO DETERMINE THE EXTENT OF WORK. THE
- CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE TENANT OF ANY DISCREPANCIES PRIOR TO BIDDING. 6. ALL MATERIALS INDICATED ARE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING, AND SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR ITEMS INDICATED AS TENANT SUPPLIED SHALL BE INSTALLED BY THE CONTRACTOR PER TENANT'S REQUIREMENTS AND/OR MANUFACTURER'S
- PUBLISHED STANDARDS 7. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED OR REPAIRED TO MATCH THE EXISTING ADJACENT MATERIALS, SO THAT THE
- REPAIR IS IMPERCEPTIBLE 8. DURING THE COURSE OF CONSTRUCTION. IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH
- IMMEDIATELY. 9. CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/ PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS
- AND INDUSTRIAL/ASSOCIATION STANDARDS. 10. FIELD VERIFY AND/OR REPORT ASBESTOS-CONTAINING MATERIAL TO
- ARCHITECT AND TENANT UPON DISCOVERY. 11. SMOKE AND FIRE PARTITIONS SHALL BE CONSTRUCTED PER THE DESIGNATED UL DESIGN AND SHALL BE EXTENDED VERTICALLY TO THE BOTTOM OF THE STRUCTURE ABOVE, PROVIDE FIRE STOPS AND SEAL ALL PIPE AND CONDUIT PENETRATIONS WITH SEALANT THAT COMPLIES WITH

THE MINIMUM FIRE RATED REQUIREMENTS FOR THE PARTITION. DUCT

PENETRATIONS SHALL BE PROTECTED WITH SMOKE AND/OR FIRE DAMPERS

- 12. ALL INTERIOR CONCRETE SHALL BE PORTLAND CEMENT BASED TO INCLUDE PATCHING, FLOATING/LEVELING OF FLOORS AND INFILLING. 13. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR
- STENCILING, LETTERING SHALL BE NOT LESS THAN 1/2" IN HEIGHT LOCATED ABOVE AN ACCESSIBLE CEILING AND REPEATED IN INTERVALS NOT EXCEEDING 30' HORIZONTALLY ALONG THE WALL OR PARTITION. SUGGESTED WORDING SHALL BE "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS."
- 14. ANY DETAIL WHICH MAY BE INCOMPLETE OR LACKING IN THE PLANS OR SPECIFICATIONS SHALL NOT CONSTITUTE CLAIM FOR EXTRA COMPENSATION. SUCH DETAIL, IF REQUESTED BY THE CONTRACTOR, SHALL BE SUPPLIED BY THE ENGINEER/ARCHITECT AND SUBMITTED TO THE CONTRACTOR IN ADVANCE OF ITS REQUIREMENT ON THE JOB. THE TRUE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PRODUCE A COMPLETE WORKING FACILITY AND INCOMPLETE DETAIL WILL NOT ABROGATE THIS
- 15. THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS (WITH THEIR STAMP OF APPROVAL) AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR APPROVAL BY THE ARCHITECT/ENGINEER OF RECORD.

- THE CONTRACTOR SHALL VERIFY THAT TOILET ROOM(5), INCLUDING FIXTURES AND ACCESSORIES (BOTH EXISTING AND NEW) MEET ALL APPLICABLE LOCAL, STATE AND FEDERAL ACCESSIBILITY CODES AND
- . PROVIDE EXTERIOR LIGHT ABOVE REAR DOOR, AS APPROVED BY
- LANDLORD, IF ONE DOES NOT EXIST WITHIN 10 FEET OF REAR DOOR. 5. PAINT ALL EXPOSED SURFACE MOUNTED CONDUIT TO MATCH ADJACENT WALL COLOR (IE WHITE OR YELLOW).
- B. CONTRACTOR SHALL CAULK AROUND TOP AND BOTTOM EDGES OF COLUMN SURROUNDS TO AVOID INJURY. REPAIR AND CLEAN ALL EXISTING MATERIALS (IE STOREFRONT FRAMING
- AND GLAZING, WALLS, CEILING, ETC) TO REMAIN TO A LIKE NEW CONDITION. NOTIFY FAMILY DOLLAR'S CONSTRUCTION PM AS TO THE CONDITION OF EXPOSED CONCRETE BLOCK WALL TO REMAIN ON THE SALES FLOOR. FAMILY DOLLAR WILL MAKE THE DETERMINATION AS TO WHETHER THE
- OUT WITH METAL STUDS AND GWB.). CONTRACTOR SHALL INSTALL TENANT SUPPLIED FIXTURES TO INCLUDE BUT NOT LIMITED TO CART CORRAL, PERIMETER WALL GONDOLA, FLOOR GONDOLA, BALLOON CENTER, HANGING BALLOON CORRALS, HELIUM TANK CABINET (SALES FLOOR), HELIUM TANK BRACKETS (STOCKROOM, SEE DETAIL), GRAVITY CONVEYOR SYSTEM, AND MOBILE FIXTURES PER TENANT'S FIXTURE PLAN. CALIFORNIA PROJECTS ONLY, CONTRACTOR SHALL STRAP ALL FIXTURES AS PER THE SEISMIC DRAWINGS PROVIDED. CONTACT THE CONSTRUCTION PM IF FIXTURE/SEISMIC DRAWING WAS NOT

WALL'S CONDITION IS SUITABLE FOR PAINTING OR NEEDS TO BE FURRED

- MADE AVAILABLE TO YOU DURING YOUR BIDDING PROCESS. 10. DOORS AND FRAMES (OTHER THAN THOSE LISTED AS EXIST) ARE TENANT SUPPLIED FOR CONTRACTOR INSTALLATION, STOREFRONT DOORS (WHEN NOTED) SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR AS REQUIRED. AUTOMATIC DOORS (WHEN NOTED) WILL BE SUPPLIED AND INSTALLED BY TENANT'S VENDOR (CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONNECTION.)
- 11. CONTRACTOR SHALL REMOVE ANY EXISTING SIGNAGE THAT HAS PREVIOUS TENANT'S NAME (INTERIOR AND/OR EXTERIOR.) ANY SIGNAGE THAT IS REQUIRED SHALL BE REPLACED IN LIKE KIND WITH FAMILY DOLLAR'S NAME. 12. CONTRACTOR SHALL VERIFY IF THERE IS AN EXISTING ACCESS PANEL TO TENANT'S SIGNAGE. IF ACCESS PANEL DOES NOT EXIST, INSTALL 2'-0" X 2'-0" ACCESS PANEL EITHER INSIDE AT DOLLAR TREE'S SPACE ABOVE THE CEILING (VERIFY FIRE RATINGS AND CODE REQUIREMENTS) OR IN THE

EXTERIOR SOFFIT TO MATCH CANOPY CONSTRUCTION AS ALLOWED BY

LANDLORD. CONFIRM WITH SIGN VENDOR FOR LOCATION PRIOR TO

INSTALLING.

- WORK IN THEIR BID AND WILL BE HANDLED VIA CHANGE ORDER AFTER SITE EVALUATION IS DONE BY WINNING BIDDER, CONTRACTOR SHALL FORWARD THE EVALUATION AND PRICE QUOTE TO THE CONSTRUCTION PM FOR APPROVAL PRIOR TO PERFORMING ANY AND ALL WORK.
- 15. CONTRACTOR SHALL INSTALL TENANT SUPPLIED INTERIOR GRAPHICS AND SIGNS TO INCLUDE BUT NOT LIMITED TO PERIMETER WALL GRAPHICS/SIGNAGE, HANGING GRAPHICS/SIGNAGE AND STOREFRONT WINDOW DECALS. CONTACT THE CONSTRUCTION PM FOR
- GRAPHIC/SIGNAGE DRAWINGS. 16. CONTRACTOR SHALL SEAL ALL EXTERIOR PENETRATIONS INCLUDING CRACKS, HOLES, GAPS, AND EXISTING PENETRATIONS. CONTRACTOR SHALL SELECT MATERIAL APPROPRIATE FOR CONDITION TO PROVIDE PERMANENT RODENT-PROOF INFILL (INSULATION SPRAY FOAM IS NOT AN ACCEPTABLE FINISHED MATERIAL.)
- 17. CONTRACTOR SHALL POST ON BULLETIN BOARD IN OFFICE FINAL INSPECTIONS & CERTIFICATE OF OCCUPANCY.
- 18. ALL PLAQUE SIGNAGE INCLUDING BUT NOT LIMITED TO TOILET SIGNS, LADDER STORAGE SIGN, AND FLEX CONVEYOR SIGN SHALL BE ATTACHED TO MOUNTING SURFACE WITH CONSTRUCTION ADHESIVE

1. THIS FACILITY CARRIES ONLY 100 % PRE-PACKAGED FOOD TO

INCLUDE THE FREEZER/COOLER PRODUCT. 2. THIS FACILITY IS A NON DINING FACILITY. NO DINING SEATING WILL BE PROVIDED TO CUSTOMERS

ENVIRONMENTAL HEALTH NOTES

- 3. THIS FACILITY DOES NOT PERFORM ANY TYPE OF FOOD PREPARATION WITHIN THE STORE FOR CUSTOMER CONSUMPTION AND/OR EMPLOYEE CONSUMPTION. 4. THIS FACILITY HAS NO FOOD EQUIPMENT WITHIN THE STORE.
- 5. THIS FACILITY WILL HAVE 3 TO 4 EMPLOYEES PER SHIFT MAXIMUM. ONE STORE MANAGER, ONE TO TWO CASHIERS AND ONE STOCKER.

EMPLOYEE LOCKERS- EASILY CLEANABLE LOCKERS WILL BE

- PROVIDED TO ALL EMPLOYEES, REFER TO FIXTURE PLAN FOR LOCATION. MOP SINK- THIS FACILITY WILL BE SUPPLIED WITH A 24"x36" FLOOR MOUNTED MOP SINK WITH APPROVED VACUUM BREAKER FAUCET.
- WALLS SURROUNDING MOP SINK WILL HAVE FRP TO 4'-0" ABOVE FINISH FLOOR FOR EASY CLEANABLE SURFACE. NSF, ANSI AND UL APPROVED- ALL EQUIPMENT WITHIN THIS FACILITY IS NSF, ANSI AND UL APPROVED, CUT SHEETS FOR
- FINISH SCHEDULE- A FINISH SCHEDULE IS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS AND LOCATED ON SHEET A4 FOR
- YOUR USE. 10. QUESTIONS- EXAMINER PLEASE FEEL FREE TO CONTACT THE ARCHITECT AND ENGINEERS LISTED ON SHEET CS1 WITH ANY CONTACT KEITH JOHNSON, DIRECTOR OF ARCHITECTURAL

SERVICES FOR FAMILY DOLLAR STORES, INC AT 757-321-5435.

BUILDING CODE SUMMARY

MICHIGAN BUILDING CODE, 2015 EDITION APPLICABLE BUILDING CODE: APPLICABLE PLUMBING CODE: MICHIGAN PLUMBING CODE, 2015 EDITION NATIONAL ELECTRICAL CODE, 2017 EDITION APPLICABLE ELECTRICAL CODE: APPLICABLE FIRECODE: CURRENT MICHIGAN FIRE CODE MICHIGAN MECHANICAL CODE, 2015

APPLICABLE MECHANICAL CODE: APPLICABLE ENERGY CODE:

NUMBER OF STORIES:

- USE GROUP: **CONSTRUCTION TYPE**
- EQUIPMENT AVAILABLE UPON REQUEST.
- QUESTIONS OR ITEMS YOU NEED CLARIFICATION ON. ALSO YOU CAN

NATIONAL ENERGY CONSERVATION CODE APPLICABLE ACCESSIBILITY CODE: ANSI A117.1 / 2010 ADA STANDARDS M - MERCANTILE

- SPRINKLERED: 10.431 S.F. **TOTAL LEASE AREA:** 8,853 /60= 148 OCCUPANCY LOAD: SALES AREA
- PROJECT ADDRESS: FREESTANDER 651 UNIONVILLE RD.
- BUILDING DEPARTMENT PHONE NO: (989) 883-2150

FIRE MONITORING REQUIRED

SEBEWAING, MI 48759

STOCKROOM

1,587 /300= 6

PROJECT DIRECTORY

LINGLE DESIGN 158 WEST MAIN STREET LENA, IL 61048 PHONE (815) 369-9155 FAX (815) 369-4495

ARCHITECTURAL

NOTES AND ACCESSIBILITY DETAILS

INTERIOR ELEVATIONS AND DETAILS

MECHANICAL/ PLUMBING

EXTERIOR ELEVATIONS AND ELEVATIONS

FLOOR PLAN, WALL CONSTRUCTION TYPES

REFLECTED CEILING PLAN, LEGEND, NOTES, AND DETAILS

CS1 NOTES, LEGEND AND KEY PLAN

A1.1 ENLARGED PLANS, AND DETAILS

FIXTURE/ EGRESS PLAN

STRUCTURAL

ELECTRICAL

EM-101 EMS DETAILS

EM-102 EMS DETAILS

EM-103 EMS DETAILS

|EM-104 EMS DETAILS

ELECTRICAL POWER PLAN

LV-1.0 LOW VOLTAGE TYPICAL PLANS

LV-2.0 PAGING SYSTEM TYPICAL PLANS

FOR REFERENCE ONLY

REACH-IN UNITS DETAILS AND SPECIFICATIONS

SCHEDULES

CHAD ARIANS, PM PLUMB, MECH, ELEC ENGINEER KLH ENGINEERS 1538 ALEXANDRIA PIKE, SUITE 11

SIMON GOYERT, PM SIGN CONTRACTOR EVERBRITE, LLC 4949 S. 110TH STREET P.O. BOX 2020 GREENFIELD, WI 53220

JOSH JARVIS

PHONE (800) 558-3888 EXT. 7198

SAGINAW. MI 48604 FORT THOMAS, KY 41705 BRIAN R STADLER, CEO PHONE (859) 303-3715 989-790-4656

DOLLAR TREE STORES

PHONE (604) 321-2550

DAVOR RONDAS

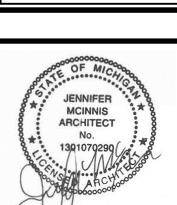
206-3185 WILINGDON GREEN

BURNABY, BC V5G 4P3 CAN

WOLGAST CORPORATION

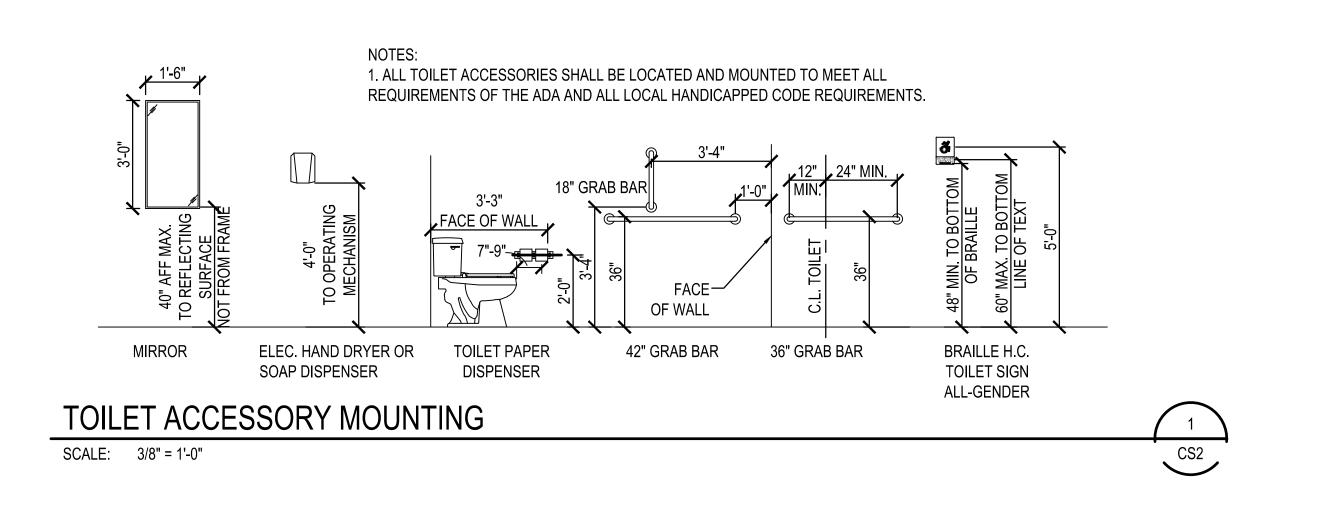
4835 TOWNE CENTRE RD. SUITE 203

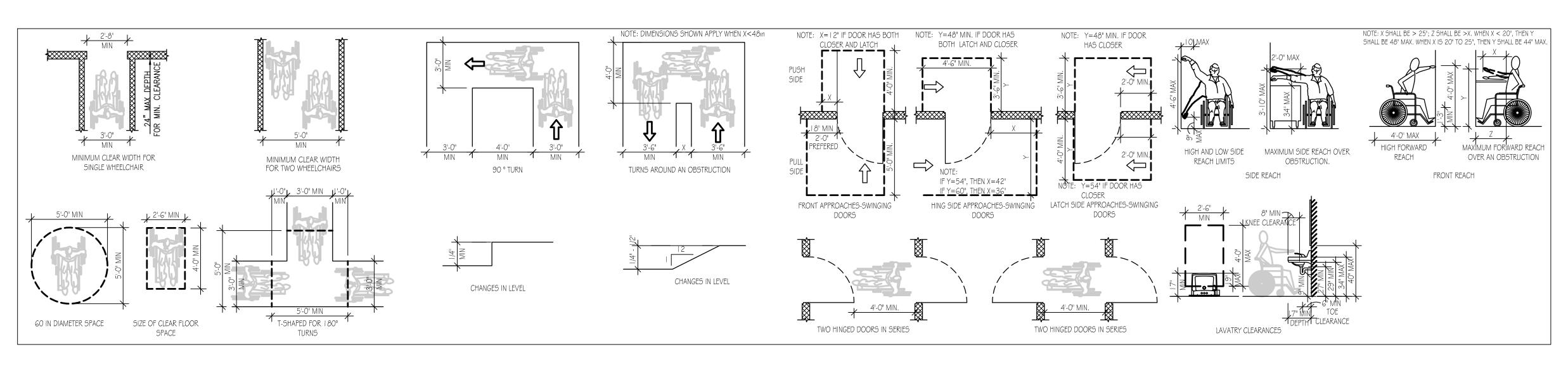




FREES' 651 UNION' NOTES, LE

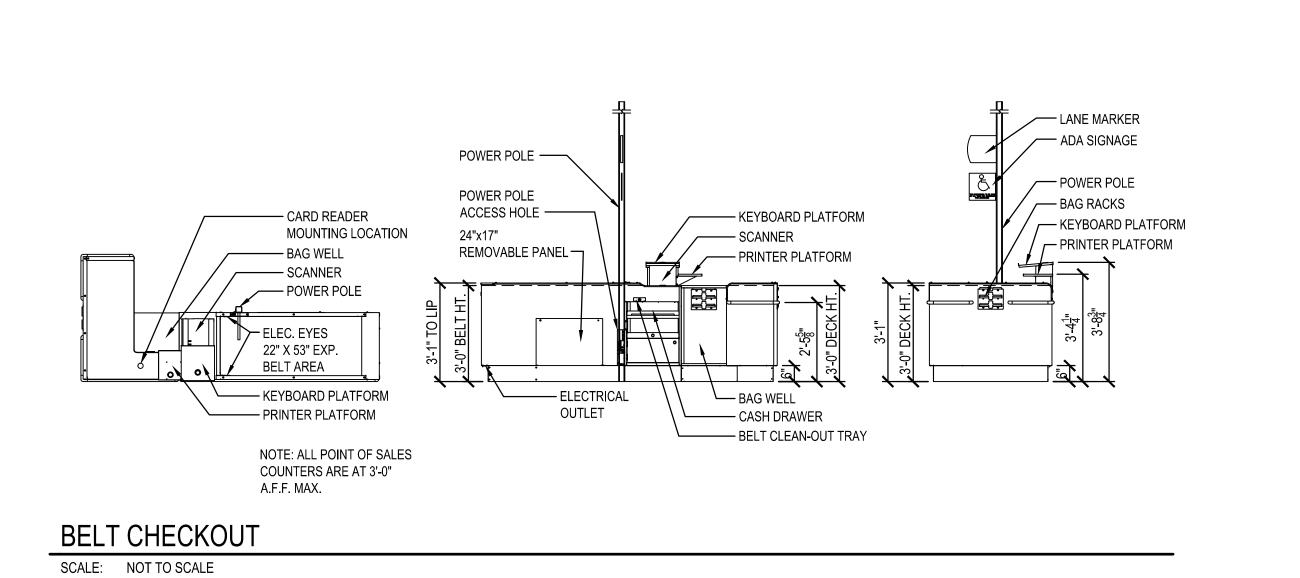
SHEET

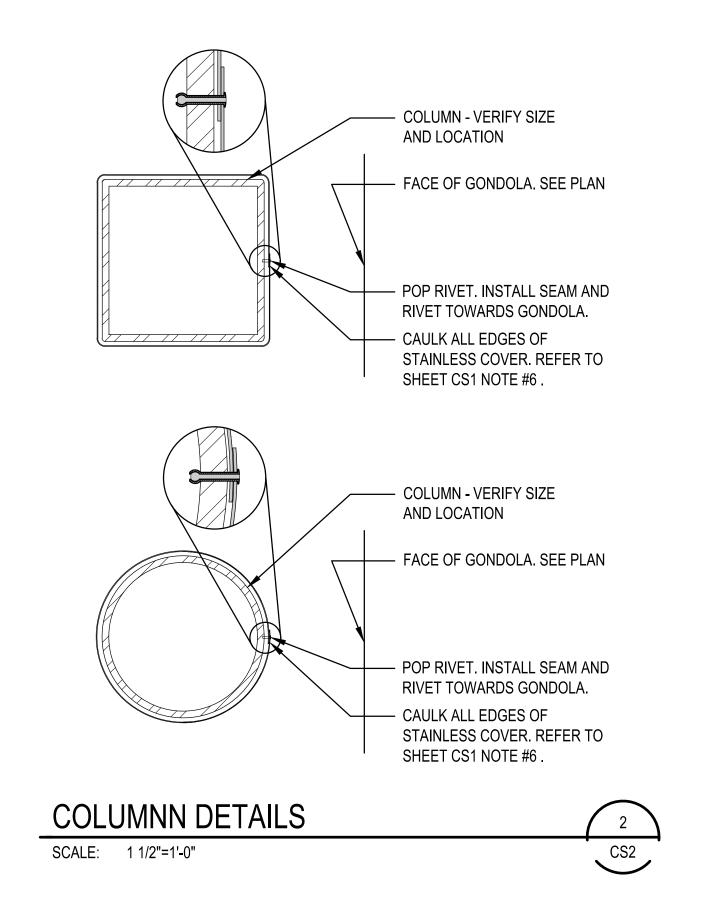




TYPICAL ACCESSIBILITY CONFIGURATIONS

SCALE: NOT TO SCALE



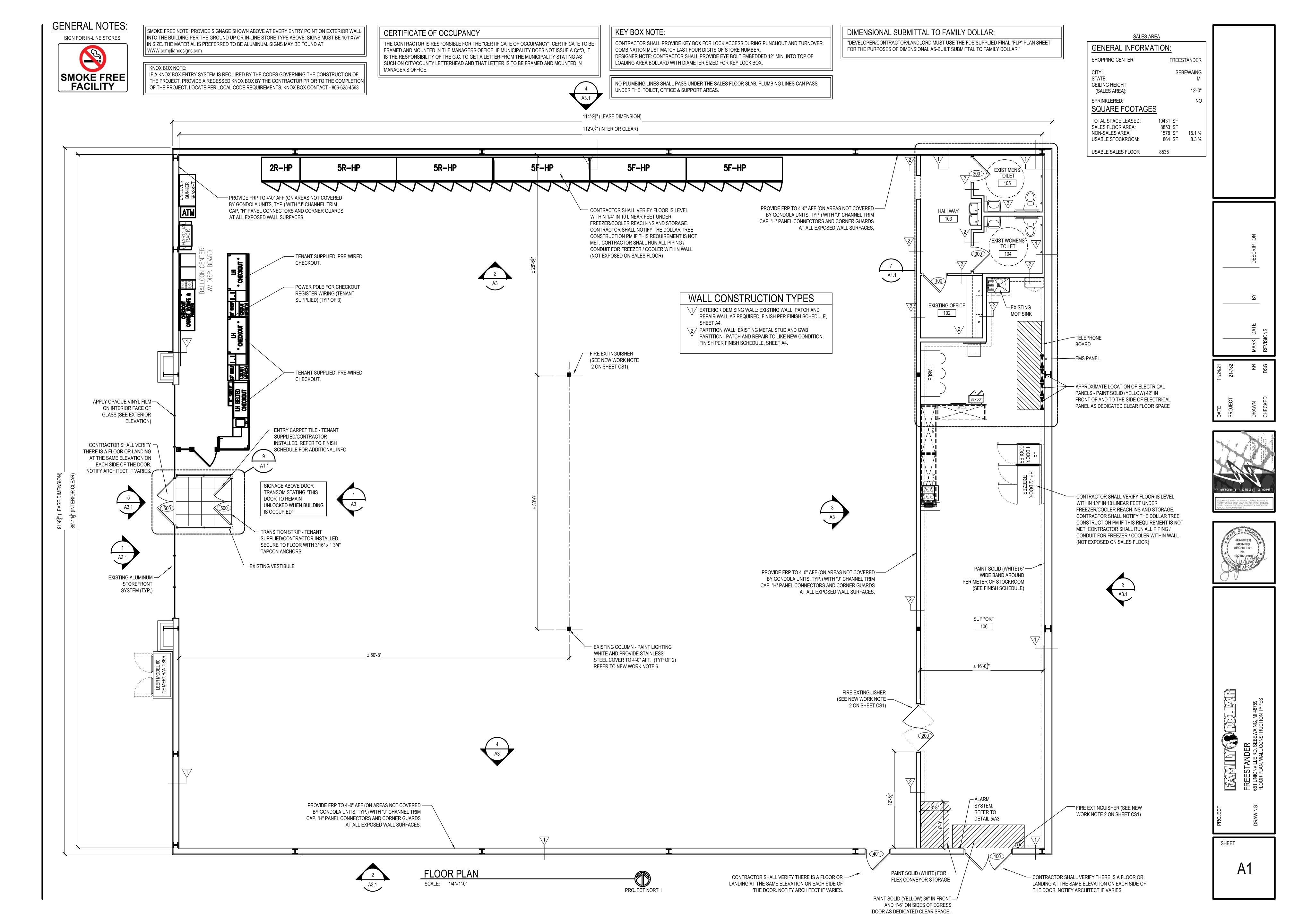


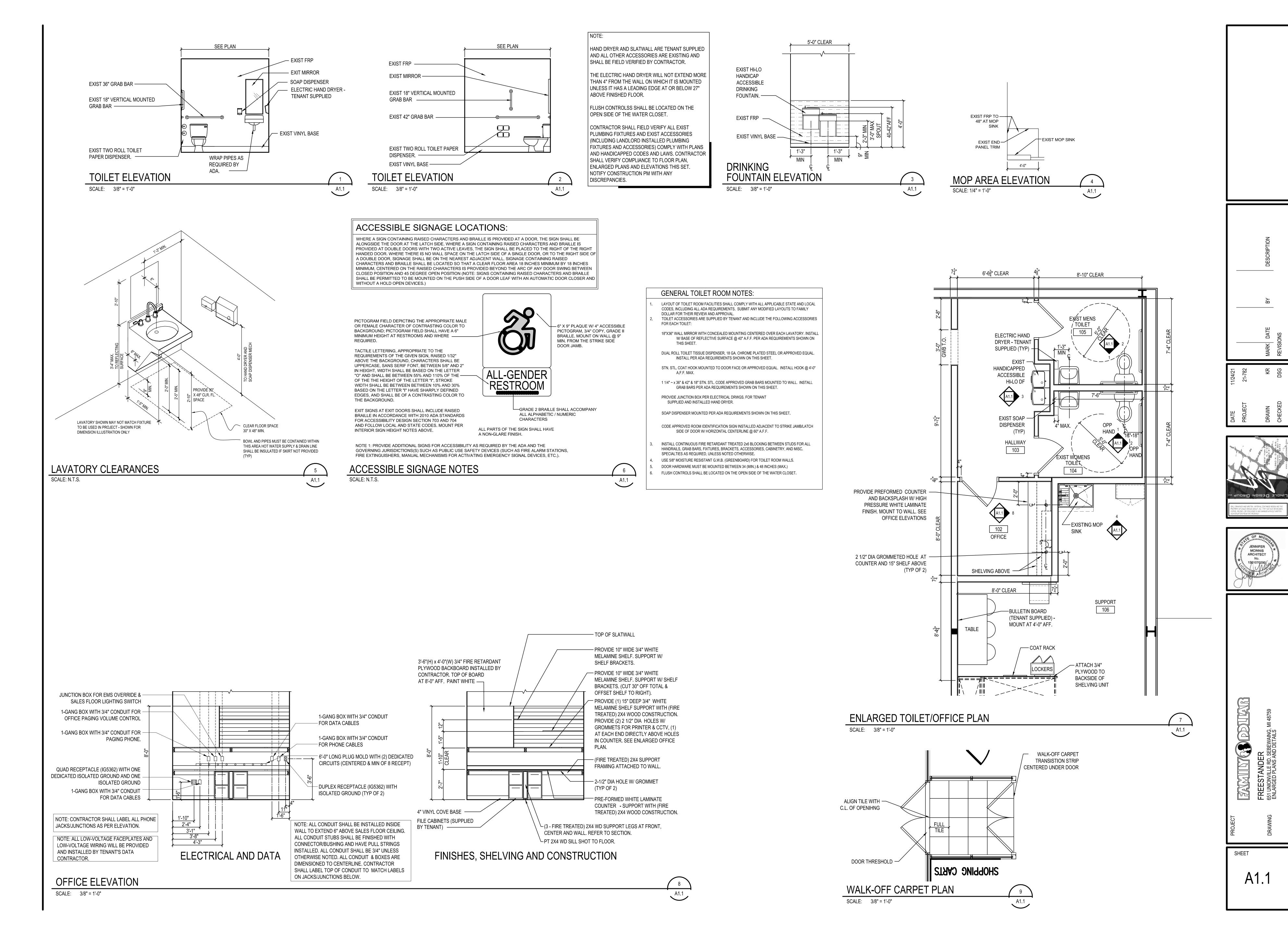
PROJECT

FREESTANDER

DRAWING 651 UNIONVILLE RD. SEBEWAING, MI 48759
NOTES AND ACCESSIBILITY DETAILS

CS2

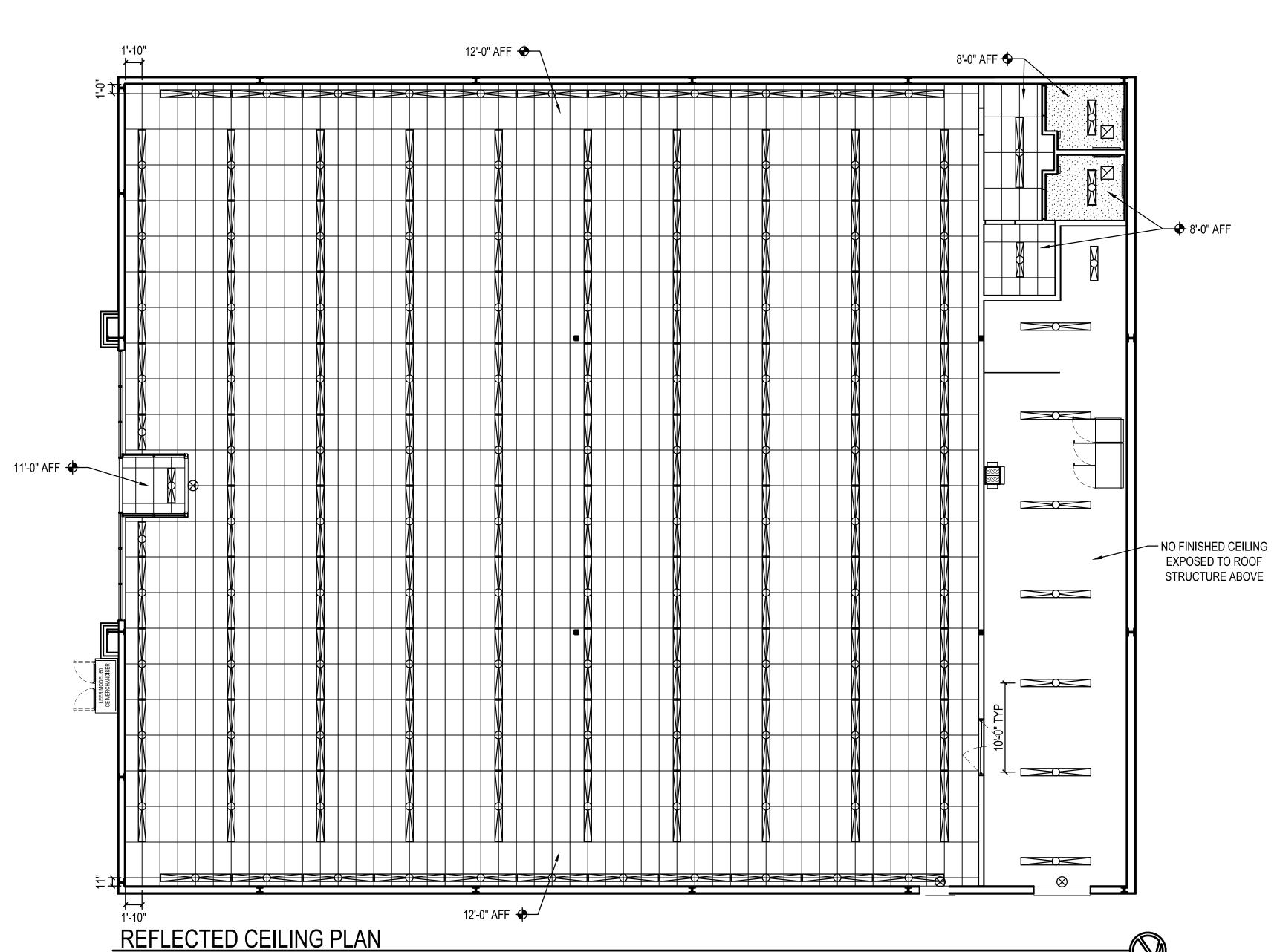




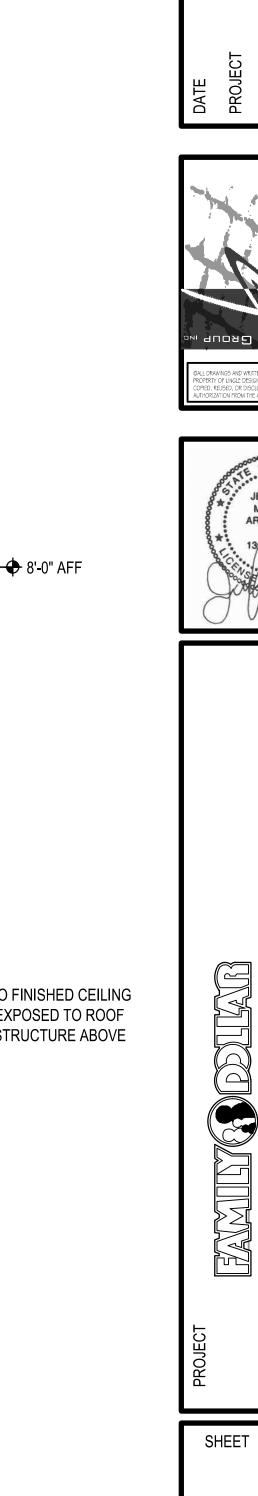
NOTE: 1. SECURITY CAMERA DOMES, MIRROR PANELS, OCCUPANCY SENSOR AND POWER POLES (UON) ARE TENANT

SUPPLIED / CONTRACTOR INSTALLED.
NOTE: 2. STOCKROOM LIGHTS MOUNTED AT 10'-0" AFF.

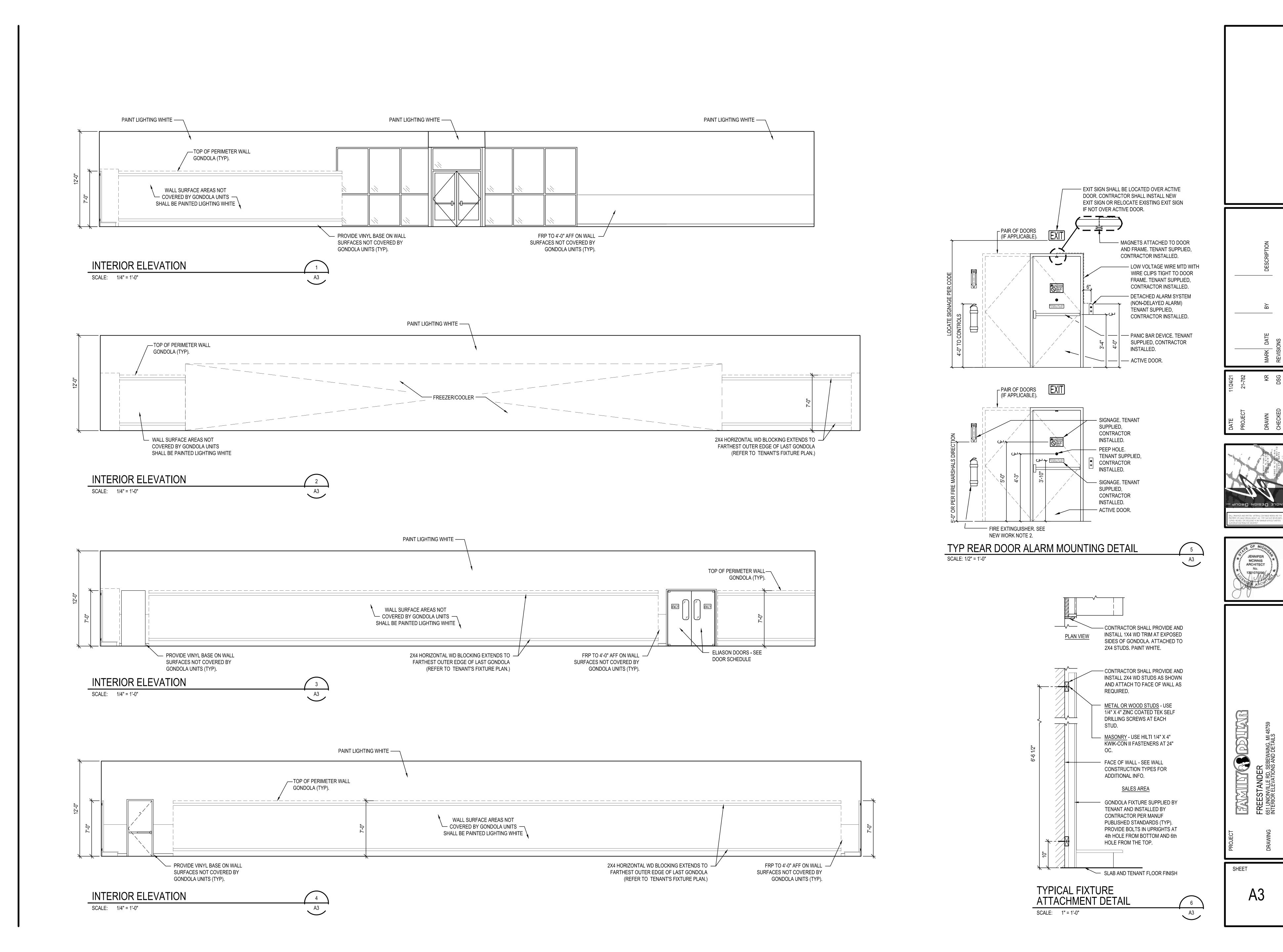
REFLECTED CEILING LEGEND EXIST 2'-0"X4'-0" ACOUSTICAL CEILING EXIT LIGHT TILE AND GRID- SEE FINISH NOTE 4. SECURITY CAMERA DOME GWB - PAINT WHITE UNLESS OTHERWISE NOTED. SECURITY CAMERA DOME MTD ON EXIST 8'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON NIGHT WALL @ 10'-0" AFF. LIGHT CIRCUIT. SURFACE MOUNT TO GWB AND ACT CEILING. **VENTILATION FAN** EXIST 8'-0" STRIP LED LIGHT FIXTURE. SURFACE MOUNT TO CEILING HEIGHT ABOVE FINISH FLOOR GWB AND ACT CEILING. EXIST 8'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON MIRROR PANEL EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK. SURFACE MOUNT TO GWB AND ACT CEILING. FOR DIFFUSER FIXTURES WITH 4 LAMPS, THE EMERGENCY BATTERY PACK WILL ONLY OPERATE 2 OF THE LAMPS. EXIST 4'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON NIGHT SPRINKLER HEAD (SHOWN FOR INFORMATIONAL NL LIGHT CIRCUIT. SURFACE MOUNT TO TO GWB AND ACT CEILING. PURPOSES ONLY. SPRINKLER CONTRACTOR SHALL PREPARE DRAWINGS AS REQUIRED BY CODE FOR RELOCATION OR ADDITION OF HEADS.) EXIST 4'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON POWER POLE EM EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK. SURFACE MOUNT TO TO GWB AND ACT CEILING. DUPLEX RECEPTACLE FOR SECURITY CAMERA (SC) MOUNTED IN CEILING TILE. EXIST 4'-0" STRIP LED LIGHT FIXTURE. SURFACE MOUNT TO ACT AND GWB CEILING.

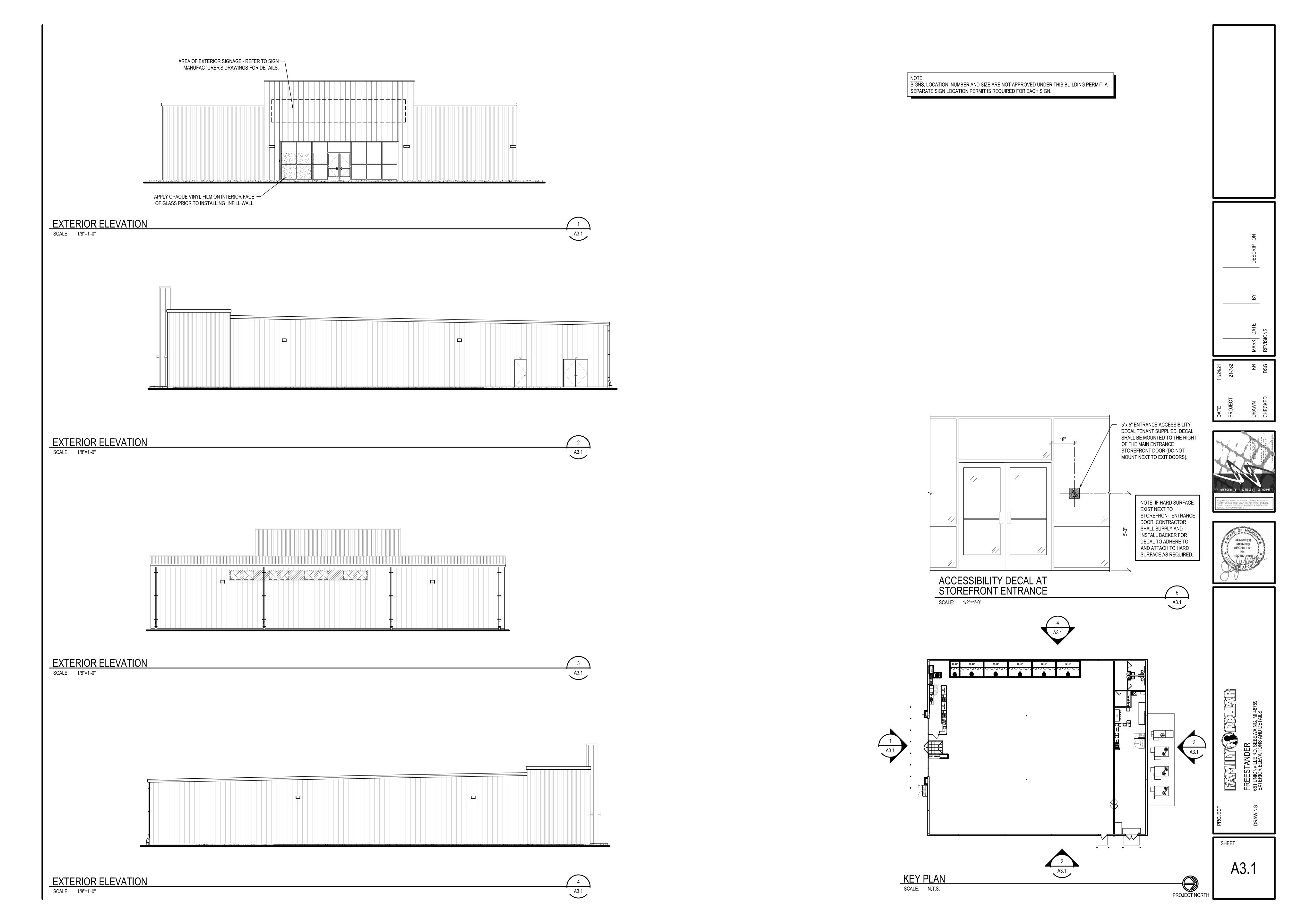


SCALE: 1/8"=1'-0"



PROJECT NORTH





FINISH SCHEDULE										DOC	OR SCH	HEDUL	.E			
SPACES	FLOORS	BASES	WALLS	CEILING	NOTES	DOORS DETAILS HOW				HDW	DOOR					
SALES	POLISHED-1	VINYL-1	PAINT-1,FRP-1	EXIST ACT	4] #	W	Н	Т	MATERIAL	HEAD	JAMB	SILI	FR	NOTES	NOTES
SUPPORT	SEALER-1	VINYL-1	PAINT-3,FRP-1		1,2,3		VV	11	ı				OILL			
OFFICE	POLISHED-1	VINYL-1	PAINT-3		4	100	3'-0"	6'-8"	1 3/4"	EXIST SC WD	6A/A4.1	6A/A4.1	-		100A	3,5
OILET	EXIST SHEET VINYL	EXIST COVE	EXIST FRP	EXIST GWB	4	200	PR 3'-0"	7'-0"	.063"	EXIST ALUM ALLOY	6B/A4.1	6B/A4.1	-		200A	2,3,7,10,12
HALLWAY	POLISHED-1	VINYL-1	PAINT-1A,EXIST FRP	EXIST ACT		300	3'-0"	6'-8"	1 3/4"	EXIST SC WD	6A/A4.1	6A/A4.1	-		300C	3,5,6,9
/ESTIBULE	WALK-1			EXIST ACT		400	PR 3'-0"	7'-0"	1 3/4"	EXIST HOL METAL	-	-	-		400A	3,4,5,8
						401	3'-0"	7'-0"	1 3/4"	EXIST HOL METAL	-	-	-		400C	3,4,5
						500	PR 3'-0"	7'-0"	1 3/4"	EXIST STOREFRONT	-	-	-		500A	1,3
FINISH NOTES																

- DO NOT PROVIDE SEAL CHEMS SPEC HARDNER (OR EQUIVALENT) ONTO CONCRETE FLOORS IN
- SALES SUPPORT ROOM THAT ILL RECIEVE CLEAR ACRYLIC SEALER. 2. INTERIOR SIDE OF HOLLOW METAL DOORS AND FRAMES TO BE PRIMED & PAINTED IN FIELD WITH 1
- COAT PRIMER AND 2 COATS SEMI-GLOSS, COLOR: PAINT-3.
- 3. ELIASON DOORS TO BE FACTORY FINISHED PER DOOR SCHEDULE. 4. HOLLOW METAL FRAME & DOOR IN SALES AREA AND WOOD DOORS & HOLLOW METAL FRAMES IN TOILETS AND OFFICE TO BE PRIMED & PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS SEMI-GLOSS, COLOR TO MATCH WALL SURFACE OF ADJACENT WALL.

- POLISHED-1: POLISHED CONCRETE FLOORS BY TENANTS VENDOR. COORDINATE WITH TENANT.
- SEALER-1: SEALED CONCRETE WITH CLEAR ACRYLIC SEALER BY MASTERKURE, CC 300SB OR FDS APPROVED SUBSTITUTE.
- WALK-OFF CARPET-INTERFACE "DECO-DIAGONAL/ANTHRACITE GRAPHLAR" 5 SQ. W X 7 SQ. D (+/- 8'-3"W X 11'-6"D) WITH TREDSAFE TRANSITION STRIP ON 3 SIDES. BUTT TILE TO DOOR THRESHOLD AND MULLIONS. CENTER TILES ON DOOR C.L. REFER TO VESTIBULE OPTION (DETAIL 5) ON SHEET A1.1.
- VINYL-1: 4" HIGH TOP SET COVE VINYLE BASE BY ARMSTRONG, COLOR-BLACK
- COVE-1: 4" HIGH FLASH COVE BASE WITH MATCHING TERMINATION STRIP ADHERED TO FRP.

- (2 COATS) 2019-70-LIGHTING WHITE-SUPER HIDE ZERO VOC, LATEX INTERIOR EGGSHELL-357. (PAINT1-A: SAME AS PAINT-1 EXCEPT SEMI-GLOSS)
- PAINT-2: (2 COATS) 2019-70-LIGHTING WHITE-SUPER HIDE ZERO VOC, LATEX INTERIOR SEMI-GLOSS 358.
- PAINT-3: (2 COATS) SUPER HIDE ZERO VOC LATEX INTERIOR SEMI-GLOSS #358 COLOR-WHITE.
- PAINT-4: (2 COATS) TOUGH SHIELD ACRYLIC GLOSS-TY43 COLOR-GREY.

#769-COLOR WHITE IN WHITE METAL TEE GRID.

- PAINT-5: (2 COATS) TOUGH SHIELD ACRYLIC GLOSS-TY43 COLOR-WHITE.
- FRP-1: INSTALL FRP (GLASBORD #85 WHITE W/ PEBBLED EMBOSSED FINISH, BY CRANE COMPOSITES OR EQUAL) (FORMALLY KEMLITE) TO 8'-0" A.F.F. ON ALL WALL SURFACES IN THE RESTROOMS. INSTALL FRP TO 4'-0" A.F.F. BEHIND THE MOP SINK AND WATER COOLERS PER ELEVATIONS ON SHEET A3.0. COMPLETE FRP WITH 'J' TRIM CAP ON TOP, SIDES, CORNERS AND 'H' CHANNELS AT JOINTS, INCLUDE CAULKING AS REQD. BY MFG. VERIFY LOCAL CODE FOR ADDITIONAL APPLICATION IF REQD.

2'-0" X 4'-0" SUSPENDED LAY-IN CEILING TILE BY ARMSTRONG "CORTEGA" SQUARE EDGE

DOOR NOTES

- PROVIDE A SIGN POSTED ON THE EGRESS SIDE, ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1" HIGH ON A
- CONTRASTING BACKGROUND. EXISTING DOORS - ELIASON BI-SWING DOORS W/ WINDOW
- DOOR, FRAME AND HINGES ARE EXISTING OR BY LANDLORD'S CONTRACTOR. CONTRACTOR TO PROVIDE AND INSTALL ANY MISSING ITEMS
- PROVIDE (ONE) PEEP HOLE TO VIEW OUT. MOUNT @ 4'-3" AFF.

OF HARDWARE PER HARDWARE NOTES.

- PAINT DOOR AND FRAMES PER THE FINISH NOTES ON THIS SHEET
- INSTALL TENANT SUPPLIED SIGNAGE PER DETAIL 6/A1.1.
- REINFORCE JAMBS WITH WOOD BLOCKING.
- CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEP ON ALL EXTERIOR DOORS TO PREVENT WATER, WIND AND DEBRIS INFILTRATION.
- PROVIDE COAT HOOK AT 48" AFF. ON BACK SIDE OF DOOR.
- D. PAINT DOOR FRAME PER THE FINISH NOTES ON THIS SHEET. DOOR TO REMAIN WITH ORIGINAL
- 1. PROVIDE SIGNAGE THAT READS "EMERGENCY
- 12. PROVIDE SIGNAGE THAT READS "EMPLOYEES
- 13. PROVIDE STOREFRONT DOORS, TRANSOM AND THRESHOLD TO MATCH EXIST. PROVIDE SHOP DRAWINGS TO LANDLORD FOR APPROVAL PRIOR TO INSTALLATION.
- GENERAL HARDWARE NOTES:
- THRESHOLDS AT EGRESS DOORS SHALL BE NO MORE THAN 1/2" (MAX) HEIGHT AFF. ALL DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE
- INSTALLED 34" (MIN) TO 44" (MAX) AFF AND SHALL BE "SINGLE-HANDED" OPERABLE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE. WHERE EGRESS DOORS ARE USED IN PAIRS, THE UNLATCHING OF THE LEAF SHALL NOT REQUIRE
- MORE THAN ONE (1) OPERATION AS MENTIONED IN GENERAL HARDWARE NOTE #2 ABOVE. . CONTROLS AND OPERATING MECHANISMS SHALL BE LEVER-TYPE (OR EQUAL) PROVIDING
- OPERATION WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS
- OF INTERIOR HINGED DOORS SHALL BE NO GREATER THAN 5 POUNDS (22.2 N). DOORS EQUIPPED WITH CLOSERS SHALL BE ADJUSTED SO THAT THE SWEEP PERIOD FROM
- AN OPEN POSITION OF 70 DEGREES WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED FROM THE LEADING EDGE OF THE DOOR.

HARDWARE NOTES

- HDW # 100A EXIST 1 1/2 PAIR HINGES: STANDARD WEIGHT
 - INSTALL 1 MECHANICAL PUSH BUTTON LOCKSET WITH LEVER HANDLE
 - EXIST 1 CLOSER EXIST 1 FLOOR STOP
 - HDW # 200A
 - LWP-3 ALUMINUM TRAFFIC DOOR EASY SWING HINGE SYSTEM
 - 9" X 30" CLEAR ACRYLIC WINDOW FLUSH HOLLOW METAL FRAME - DRYWALL
 - HDW # 300C
 - EXIST 1 1/2 PAIR HINGES: STANDARD WEIGHT
 - EXIST 1 PRIVACY SET WITH LEVER HANDLE EXIST 1 CLOSER
 - EXIST FLOOR/WALL STOP

 - EXIST 3 PAIR HINGES: 4 1/2" HEAVY WEIGHT, NON- REMOVABLE PINS (180° SWING)
 - EXIST 1 NON-ALARMED, NON-KEYED PANIC BAR
 - DEVICE EXIST 2 FLUSH BOLTS (ON INACTIVE LEAF)
 - EXIST 1 DUST PROOF STRIKE
 - EXIST 1 ALUM THRESHOLD (1/2" MAX HEIGHT)
 - EXIST 2 SWEEPS
 - EXIST 1 WEATHER STRIP EXIST 1 RAIN DRIP
 - EXIST 1 ASTRAGAL
 - INSTALL PEEP HOLE
 - INSTALL STAND ALONE ALARM REFER TO DOOR ALARM MOUNTING DETAIL (TENANT SUPPLIED)
 - INSTALL 2 OVERHEAD HOLDERS/STOPS (TENANT
 - SUPPLIED)
 - INSTALL 1 INSTAKEY CORE (PROVIDED BY TENANT)
- HDW # 400C EXIST 1 1/2 PAIR HINGES: STANDARD WEIGHT,
- NON- REMOVABLE PINS
- EXIST 1 NON-ALARMED, NON-KEYED PANIC BAR
- DEVICE
- EXIST 1 CLOSER WITH STOP ARM
- EXIST 1 ALUM THRESHOLD (1/2" MAX HEIGHT)
- EXIST 1 SWEEP
- EXIST 1 WEATHER STRIP
- EXIST 1 RAIN DRIP INSTALL PEEP HOLE
- INSTALL 1 INSTAKEY CORE (PROVIDED BY TENANT)
- HDW # 500A ON SALES SIDE EXIST HINGES PER STOREFRONT MANUFACTURER
- EXIST 2 PUSH PLATES EXIST 2 PULL HANDLES
- EXIST COMMERCIAL GRADE DEADLOCK W/ THUMB TURN
- **EXIST 2 CLOSERS**
- INSTALL 1 INSTAKEY CORE (PROVIDED BY TENANT)
- NOTE: CONTRACTOR SHALL VERIFY CLOSER DOES NOT HAVE A HOLD-OPEN FEATURE. IF CLOSER DOES, THE CONTRACTOR SHALL REPLACE WITH NEW CLOSER.



INGLE DESIGN GROUP ING



112'-15" INTERIOR CLEAR SPACE 105'-9"

1. NO GONDOLA UNITS, FIXTURES, OR PALLETS

FIXTURE PLAN IS "FOR REFERENCE ONLY".

FOR FINAL APPROVED LAYOUT.
3. CHECKOUTS ARE NOT ATTACHED TO FLOOR.

CONTRACTOR SHALL CONTACT FAMILY DOLLAR

SHALL BE OVER 8'-0" A.F.F.

FREESTANDER
651 UNIONVILLE RD. SEBEN

A5 PROJECT NORTH

SHEET

- REMAIN AS INSTALLED AND ARE SHOWN FOR REFERENCE ONLY. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION
- ALL SINGLE PHASE BRANCH CIRCUITS (RECEPTACLES, LIGHTING, ETC.) ARE 1/2" CONDUIT OR EMT WITH THHN, 90C WIRING, UNLESS NOTED OTHERWISE. ALL OTHER CONDUIT AND WIRING SHALL BE AS INDICATED ON THE PLANS. ACTUAL ROUTING AND HOMERUN GROUPINGS ARE TO BE DETERMINED IN THE FIELD.
- BACK TO BACK MOUNTING OF RECEPTACLES IS NOT PERMITTED. RECEPTACLES, THE FOLLOWING RECEPTACLES SHALL ALSO HAVE A SINK, (2)-ALL RECEPTACLES WHICH ARE PROVIDED FOR CONVENIENCE IN SERVICING HVAC EQUIPMENT REGARDLESS OF
- LOCATION. EITHER INDIVIDUAL GFCI DEVICES OR GFCI CIRCUIT BREAKERS ARE ACCEPTABLE BUT RECEPTACLES PROVIDED BY CIRCUIT BREAKERS OR OTHER GFCI DEVICES SHALL BE CLEARLY MARKED AS GFCI AND THE SOURCE OF PROTECTION SHOWN. PROVIDE A LAMICOID NAMEPLATE (WHITE LETTERS ON BLACK BACKGROUND: ON EACH PANELBOARD, MOTOR STARTER,
- OPENINGS LEFT DUE TO EQUIPMENT REMOVAL. CONDUCTORS ARE COPPER UNLESS OTHERWISE SHOWN. ALL
- CONDUCTORS LARGER THAN #10 SHALL BE STRANDED.
- ALL FIXTURES, DEVICES, CONDUIT, AND EQUIPMENT SHALL BE SECURED WITH APPROVED HANGERS AND ANCHORS AND IN
- ALL BREAKERS SHOWN IN THE PANELBOARD SCHEDULE SHALL BE INTERRUPTING CAPACITY.
- CONTACTORS SHALL BE NEMA 1. UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR MUST BE AVAILABLE AT TIME OF DBS INSPECTION. COORDINATE WITH GENERAL CONTRACTON. FIELD VERIFY THE AVAILABLE FAULT CURRENT AT THE LANDLORD'S EXISTING PANEL AND PROVIDE A NEW, FULLY RATED, PANEL TO
- CONTRACTOER TO CONNECT LANDLORD PROVIDED LIGHTING BRANCH CIRCUITS TO ELECTRICAL PANEL THROUGH NEW TENANT EMS FOR TENANT CONTROL OF LIGHTING. EVERY OTHER ROW OF SALES LIGHTING IS TO BE CONNECTED TO THE "EMPLOYEE" CONTACTOR WITH THE REMAINING SALES AREA LIGHTING CONNECTED TO THE

ELECTRIC PANELBOARD AND SWITCHBOARD SCHEDULE

TYPICAL EQUIPMENT NAME NOMENCLATURE: - POWER DISTRIBUTION SYSTEM (BLANK - NORMAL, E - EMERGENCY, S - STANDBY, L - LIFE SAFETY) - DESCRIPTION (H - 480Y/277V, L - 208Y/120V)

SUPPLY FROM: LANDLORD

CIRCUIT DESCRIPTION

DESCRIPTION

REACH-IN 2-DR

REACH-IN 5-DR

for and naming of each submittal per

26 24 16.00 Panelboards

26 27 26.00 Wiring Devices

http://www.klhengrs.com/the-firm/contractor-resources.html

26 05 29.00 Hangers and Supports for Electrical Systems

26 05 33.00 Raceways and Boxes for Electrical Systems Lighting Control Devices

and locations in field with Owners representative.

conductors. Provide accurate typed panel schedules.

configured for lock-out/tag-out for future maintenance.

26 05 19.00 Low-Voltage Electrical Power Conductors and Cables

REACH-IN 5-DR 6240 VA

3827 VA

manufacturer recommended minimum clearances for operation and maintenance.

portions of the building in which he is working free of debris and in a clean and safe condition.

the owner's representatives of each system to the satisfaction of the owner's representative.

Provide temporary lighting, power and life safety measures in areas affected by construction.

REACH-IN 1-DR 1416 VA

LOCATION: PRE-SALES 106

MAINS FRAME ENCLOSURE | CURRENT | CIRCUIT SPACE NAME FROM POWER BRANCH MAINS TYPE PHASE NUMBER DEMAND (kVA) DEMAND (A) MAINS RATING (A) RATING (A) LUGS TYPE TYPE (A) RATING (A) NOTES PROVIDE WITH ISOLATED GROUND BAR AND LANDLORD NORMAL | MAIN LUGS ONLY | (4) #3 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 75C RATED PRE-SALES Branch Panelboard 208 20420 #6 CU ISOLATED GROUND WIRE. 106 PRE-SALES

PHASE: New Construction

BREAKER QUANTITIES (NEW ONLY)

SURGE SUPRESSION:

200% NEUTRAL:

ISOLATED GROUND:

ULSE:

CIRCUIT DESCRIPTION

REACH-IN 2-DR FREEZER | NON-CONTINUOUS

PANEL SCHEDULE LEGEND PROVIDE LOCK-OUT/TAG-OUT DEVICE CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER

0.18 | 0.00

0.36 | 0.00 |

PANEL TOTALS

TOTAL DEMAND: 24.1 kVA

TOTAL CONNECTED LOAD: 24.1 kVA

TOTAL DEMAND AMPS: 67 A

DEMAND CALCULATION NOTES:

ESTIMATED DEMAND

21681 VA

2420 VA

TOTAL CONNECTED LOAD: 8.6 kVA 8.9 kVA 6.5 kVA

MAINS RATING (A): 100

VD% AWG GND TRIP FRAME POLE A

0.61 | #12 | #12 | 20 A | 20 A | 1

| 0.09 | #12 | #12 | 20 A | 20 A |

0.894 | #12 | #12 | 20 A | 20 A

0.366 #12 #12 15 A 15 A 1

| 0.473 | #12 | #12 | 20 A | 20 A | 1 | 0.26 | 2.51 |

0.09 | #12 | #12 | 20 A | 20 A | 1 | 0.18 | 0.00 |

|0.705| #12 | #12 | 20 A | 20 A | 1 | 0.18 | 0.00 |

DEMAND FACTOR

100.00%

100.00%

DOLLAR TREE ELECTRIC FIXTURE SCHEDULE

VOLTAGE OCP

FEEDER: (4) #3 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 75C RATED

CONNECTED LOAD

21681 VA

2420 VA

LOAD

POLES

suitable for installed environment, temperature range, strength, durability, voltage, etc. Install all equipment with code required and

Perform work under this contract in close harmony with other contractors so completed work shall present a neat and workmanlike installation. Consult all other disciplines drawings and coordinate with contractors in field before performing work so that this work will not

Neatly provide all cutting and patching required for the admission of work. Patching shall match quality of surroundings to owner's

Provide two clean sets of contract drawings reserved for showing a complete picture of the work as actually installed at completion of

project. Provide two neatly bound and tabbed copies of all maintenance books, instruction books and parts list pertaining to all equipment

All work, materials, and equipment shall have a one year warranty after acceptance of the work by the Owner. Any defective items shall be

removed and replaced at the electrical sub-contractor's expense and to the satisfaction of the engineer and owner's representative. Train

Provide product data submittals for each of the following sections. Provide submittals as individual PDFs by section. Provide cover sheet

Provide 600V rated conductors (#12 AWG minimum) wire with color coded insulation/jacket to identify phases, grounded conductor and

grounding conductor. Insulation shall be THHN/THWN-2 unless installed underground or subject to moisture where it shall be XHHW-2.

Provide Type MC cable for feeders and branch circuits indoors, Schedule 40 PVC conduit for underground wiring, and EMT conduit for

branches of power compliant. Install raceways and cables concealed in new construction. Provide surface raceway for existing surfaces.

Recessed steel boxes shall not be less than 4" x 1-1/2" deep. No ganged boxes. Cut in box neatly. Verify all box/device mounting heights

hangers. Conduit and cables shall be neatly installed parallel and perpendicular to structural members. Noncompliant work shall be removed and replaced to satisfaction of owner. Do not support conduit or cables from roof deck or install within 4" of roof deck. Provide flexible conduit or fittings, and leave slack in cables, at all expansion joints. Provide separate raceways for normal and emergency

Provide engraved plastic laminate naming identification for all electrical equipment and circuit identification for junction boxes and

Provide all necessary electrically related work as required to render all fire protection, plumbing, mechanical, electrical, technology,

architectural and Owner equipment fully operational and fully compliant with manufacturer instructions and codes. Review equipment

submittal data and coordinate with installing contractors to ensure the correct size, rating and quantity of conductors and overcurrent

protective devices (OCP's) are provided. Provide electrical disconnect ahead of all equipment. Locate electrical equipment to maintain

clearances required by respective manufacturers and by NEC 110.26. Provide boxes and conduits to controlled equipment for control and

Provide electrical distribution panels equal to Square D "I-Line", branch panel boards equal to Square D "NF" or "NQ" with bolt-on branch

breakers. All bussing shall be copper or aluminum. All equipment must be appropriately braced for available fault current. Install panels

such that no overcurrent device exceeds 6'-7". Recessed panelboards shall have (3) empty 1-1/4" conduits terminated in 12" X 12" X 6"

junction box above accessible ceiling. Fused and non-fused disconnect switches shall be heavy duty, quick-make, quick-break with handle

other applications. Conduit and cable shall be independently supported directly from structural members by approved straps, fasteners and

Do not share neutrals. Provide copper jumpers for final terminations of aluminum conductors where required by equipment.

rovide copper conductors unless stated otherwise on drawings. Provide insulated equipment grounding conductor for each branch circuit.

satisfaction. Seal all new floor, ceiling, wall, slab, etc. penetrations to match or exceed existing assembly fire ratings.

Exposed finished materials and equipment shall be carefully cleaned and wiped to remove grease, smudges, fingerprints, dust and other spots. During the progress of the work, the electrical sub-contractor shall carefully clean the job site and shall leave the premises and all

MAINS TYPE: MAIN LUGS ONLY

FEEDER ID: 100-4C

- EXISTING CIRCUIT TO REMAIN SOURCE AS PART OF SELECTIVE DEMOLITION. TO POLE SPACE(S) INDICATED. NEW CIRCUIT TO EXISTING CIRCUIT BREAKER DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER OF THE BRANCH CIRCUIT CONDUCTOR INSULATION. PROVIDE NEW BREAKER IF PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER
- PROVIDE SHUNT TRIP CIRCUIT BREAKER WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER REFER TO DRAWINGS FOR SPECIFICATIONS PROVIDE LOCK-ON DEVICE SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND VOLTAGE DROP

FAULT CURRENT (A): 20420

LUGS TYPE:

ENCLOSURE TYPE: NEMA 1

POLE FRAME TRIP GND AWG VD%

2 30 A 30 A #10 #10 0.401 REAUTIN 2-DIX 1

0.18 | 0.30 | 1 | 20 A | 20 A | #12 | #12 | 0.078 (L) EMS | NON-CONTINUOUS PRE-SALES 106

_____ 2 20 A 20 A *#10 *#10 1.988 REACH-IN 5-DR COOLER | NON-CONTINUOUS SALES AREA 101

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

AND #6 CU ISOLATED GROUND WIRE. (4) 20A / 2P. (1) 30A / 2P.

PROVIDE WITH ISOLATED GROUND BAR (1) 15A / 1P. (18) 20A / 1P. (1) 20A / 1P(L).

SHORT CIRCUIT RATING (A): 22000

| 0.80 | 0.00 | 1 | -- | 20 A |

| 1.91 | 0.00 | 1 | -- | 20 A

1 -- 20 A

| 1.42 | 0.00 | 1 | -- | 20 A | --

VENDOR PROVIDES DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT

MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION

DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT 100" AFF. PROVIDE 15'

MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION

DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT 100" AFF. PROVIDE 15'

MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION

DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT 100" AFF. PROVIDE 15'

MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION

DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT 100" AFF. PROVIDE 15'

MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION

TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.

TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.

TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP. PROVIDE NEUTRAL FOR BRANCH CIRCUIT, VENDOR PROVIDES

TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.

TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.

100" AFF. PROVIDE 15' LONG WHIP FROM BOX FOR CONNECTION TO

EQUIPMENT. PROVIDE NEUTRAL FOR BRANCH CIRCUIT. THE

PROVIDE NEUTRAL FOR BRANCH CIRCUIT, VENDOR PROVIDES

LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. THE

PROVIDE NEUTRAL FOR BRANCH CIRCUIT. VENDOR PROVIDES

LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. THE

LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. THE

PROVIDE NEUTRAL FOR BRANCH CIRCUIT. VENDOR PROVIDES

LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. THE

1 - 20 A -

PANEL SCHEDULE GENERAL NOTES PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.

- ALL CONDUCTORS SHOWN ARE COPPER. ALL VOLTAGE DROP CALCULATIONS AND COMPENSATED WIRE SIZES ARE BASED ON RIGHT ANGLE CIRCUIT LENGTHS. ACTUA VOLTAGE DROP MAY VARY BASED ON INSTALLED WIRE LENGTH. VOLTAGE DROP CALCULATIONS AND WIRE SIZES SHOWN IN THE PANEL SCHEDULES ARE FOR HOMERUN CONDUCTORS ONLY FOR CIRCUITS WITH MORE THAN 1 DEVICE, THESE SIZES ASSUME THE CONDUCTORS DOWNSTREAM OF THE HOMERUN DEVICE ARE THE MINIMUM SIZE REQUIRED BY THE NEC BASED ON THE RATING OF THE CIRCUIT. WHERE THIS IS NOT THE CASE, IT HAS BEEN INDICATED ON THE DRAWINGS. VOLTAGE DROP TO THE FARTHEST DEVICE HAS BEEN CALCULATED TO
- RECEPTACLE LOADS CALCULATED AT 100% OF FIRST 10kVA, 50% OF REMAINDER. MOTOR LOADS CALCULATED AT 125% OF THE LARGEST MOTOR, 100% OF ALL OTHER MOTORS.

ELECTRIC CIRCUIT SCHEDULE CLASSIFICATION | VOLTS | POLE | LOAD (kW) | CURRENT (A) | RATING | WIRE SIZE | GND SIZE | VOLTAGE DROP LOAD NAMI LANDLORD REACH-IN 5-DR FREEZER I Non-Continuous 208 V 2 6.24 kW 30 A NON-CONTINUOUS SALES AREA 101 REACH-IN 5-DR FREEZER I Non-Continuous 208 V 2 6.24 kW 30 A NON-CONTINUOUS SALES AREA 101

ELECTRIC FEEDER SCHEDULE

NOTES:	FEEDER ID NOMENCLATURE:
ALL CONDUIT SIZES INDICATED ARE	* - INDICATES FEEDER SIZED TO COMPENSATE FOR VOLTAGE DROP
MINIMUM SIZES. INCREASE SIZES	1 - GROUND TYPE (MAY BE BLANK)
AS REQUIRED TO ACCOMMODATE	U = EQUIPMENT GROUND CONDUCTOR REMOVED FOR SERVICE ENTRANCE FROM UTILITY
CONDUCTOR PULLING EASE, FIELD	P = PARITY-SIZED EQUIPMENT GROUND CONDUCTOR
CONDITIONS, ETC.	X = EXISTING FEEDER TO REMAIN UNLESS OTHERWISE NOTED
	T = UPSIZED GROUND CONDUCTORS FOR TRANSFORMER SECONDARY
"CU" = COPPER CONDUCTOR,	2 - CONDUCTOR AMPACITY
"AL" = ALUMINUM CONDUCTOR	3 - TOTAL NUMBER OF PHASE AND GROUNDED ("NEUTRAL") CONDUCTORS
	4 - CONDLICTOR MATERIAL C = COPPER A = ALLIMINUM

5 - SPECIAL (MAY BE BLANK) I = ISOLATED GROUND (PROVIDE CONTINUOUS INSULATED ISOLATED EQUIPMENT GROUNDING CONDUCTOR(S) FROM INSULATED ISOLATED GROUND BAR(S) TO RESPECTIVE UPSTREAM SERVICE ENTRANCE OR DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR AS APPLICABLE.

CP- 8,10

MOUNT 4"

SUPPLY TO	SUPPLY FROM	FEEDER ID	FEEDER	DEMAND (A)	VD %	NOTES
NDLORD						
СР	LANDLORD	100-4C	(4) #3 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 75C RATED	67 A	-	PROVIDE WITH ISOLATED GROUND BAR AND #6 CU ISOLATED GROUND WIRE.

FAULT CURRENT NOTE SPECIAL NOTE

CP- 21,23

MOUNT 4"

FAULT CURRENT CALCULATIONS ARE BASED ON A 22K AIC RATED LANDLORD PROVIDED PANEL. FIELD VERIFY THE AVAILABLE FAULT CURRENT AT THE LANDLORD'S EXISTING PANEL AND PROVIDE A NEW, FULLY RATED PANEL TO MATCH EXISTING. NOTE: ALL EXISTING COMPONENTS OF THIS ELECTRICAL SYTEM ARE TO

CP- 17,19

CP- 7,9

⊕CP- 11

CONTRACTOR SHALL REFER TO ENERGY MANAGEMENT SYSTEM SHEETS PROVIDED IN THIS DRAWINGS PACKAGE FOR INSTRUCTIONS AND ESPONSIBILITIES FOR INSTALLING TENANT SUPPLIED ENERGY MANGEMENT SYSTEM PRIOR TO INSTALLATION. ALL EXISTING INTERIOR AND EXTERIOR LIGHTING CIRCUITS AND SIGN CIRCUITS SHALL BE ROUTED THROUGH THE ENERGY MANGEMENT SYSTEM.

KEYED NOTES

VERIFY THAT EXISTING PANEL HAS SUFFICIENT POLE SPACE AND LOAD CAPACITY TO HANDLE CIRCUITS LISTED IN THESE CONSTRUCTION DOCUMENTS. CIRCUITS SHOULD BE ROUTED TO EXISTING PANEL THAT HANDLES GENERAL POWER CIRCUITS.

CONNECT TENANT-FURNISHED POWER POLES TO DEDICATED CIRCUITS

- AT THE EXISTING JUNCTION BOXES ABOVE. CONNECT HAND DRYER TO EXISTING JUNCTION BOX/CIRCUIT PROVIDED BY LANDLORD. SUPPLY AND INSTALL COMPACT FLUORESCENT (CFL) LAMPS IN EACH LANE LIGHT AT CHECKOUTS, (2) PER LANE LIGHT. CFL'S SHALL BE 13 WATT (EQUIVALENT TO 80 WATT INCANDESCENT SELF BALLASTED
- CONNECT TO EXISTING STOCKROOM RECEPTACLE CIRCUIT SIGNAL SYSTEMS: REAR DOOR BELL AND PUSH-BUTTON: FURNISH AND INSTALL AN EDWARDS #55-6G5, 24V AC "ADAPT-A-BELL" ABOVE CEILING AND A #852 WEATHERPROOF PUSH-BUTTON IN FLUSH (NEW CONST.) SWITCH BOX AT TENANT SPACE BACK DOOR. CONNECT SO THAT BELL SOUNDS WHEN PUSH BUTTON IS PRESSED.

NON-DIMMABLE AND AN AVERAGE LIFE OF 10,000 HOURS.

SCREW IN LAMP WITH STANDARD BASE, HELIX (HLX) LAMP SHAPE.

- PROVIDE RECEPTACLE WITHIN 18" OF TOP OF WINDOW. RECEPTACLE FOR FUTURE EAS. EAS TO BE PROVIDED AND INSTALLED BY OTHERS. COORDINATE FINAL LOCATION WITH EAS INSTALLER. PROVIDE ALL NECESSARY MATERIAL TO PROVIDE A COMPLETE INSTALLATION. CONTRACTOR SHALL REFER TO FINAL FIXTURE PLAN FOR ATM. APP STATION AND ANY OTHER FIXTURE THAT REQUIRES POWER PRIOR TO INSTALLING POWER AND DATA. DROP CIRCUIT DOWN NEW
- REACH-IN FREEZER CIRCUIT TO BE WIRED TO EXISTING LANDLORD PROVIDED PANEL.

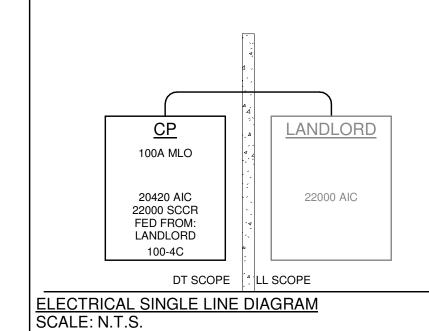
POWER POLE FOR ATM

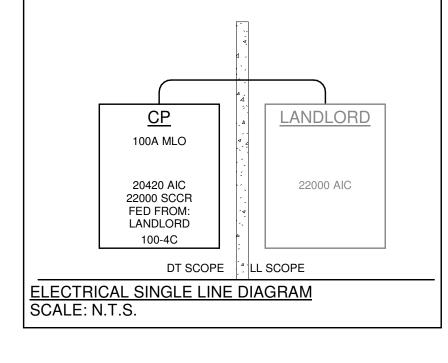
HALLWAY

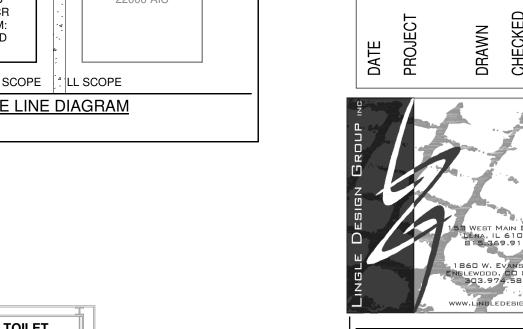
EMS❤

TOILET

104









SHEET

KLH PROJECT

- ALL EXISTING COMPONENTS OF THIS ELECTRICAL RISER ARE TO
- ON AN OR EQUAL BASIS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC EXCEPT FOR DETAILS AND ELEVATIONS. DO NOT SCALE FROM DIAGRAMMATIC DRAWINGS. EXACT LOCATIONS OF DEVICES AND PANELS ARE TO BE DETERMINED AND ROUGHED-IN DURING CONSTRUCTION TO AVOID INTERFERENCE,
- TO MEET USER REQUIREMENTS. TO PROVIDE ADEQUATE MOUNTING. AND TO MEET NEC LINEAR ACCESS AND CLEARANCE REQUIREMENTS. IN ADDITION TO THE NEC REQUIREMENTS FOR GFCI PROTECTION FOR GFCI PROTECTION: (1)-ALL RECEPTACLES LOCATED WITHIN 8 FEET OF
- CONTACTOR, TRANSFORMER, ETC. LETTERS SHALL BE 0.75 INCH
- PLASTIC COVER AFFIXED TO THE INSIDE DOOR.
- ACCORDANCE WITH APPROVED STANDARDS OF INSTALLATION. RATED AS SHOWN FOR BOTH CIRCUIT CAPACITY AND FAULT CURRENT
- "CUSTOMER" CONTACTOR.

GENERAL NOTES

WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK

(UNLESS OTHERWISE INDICATED)

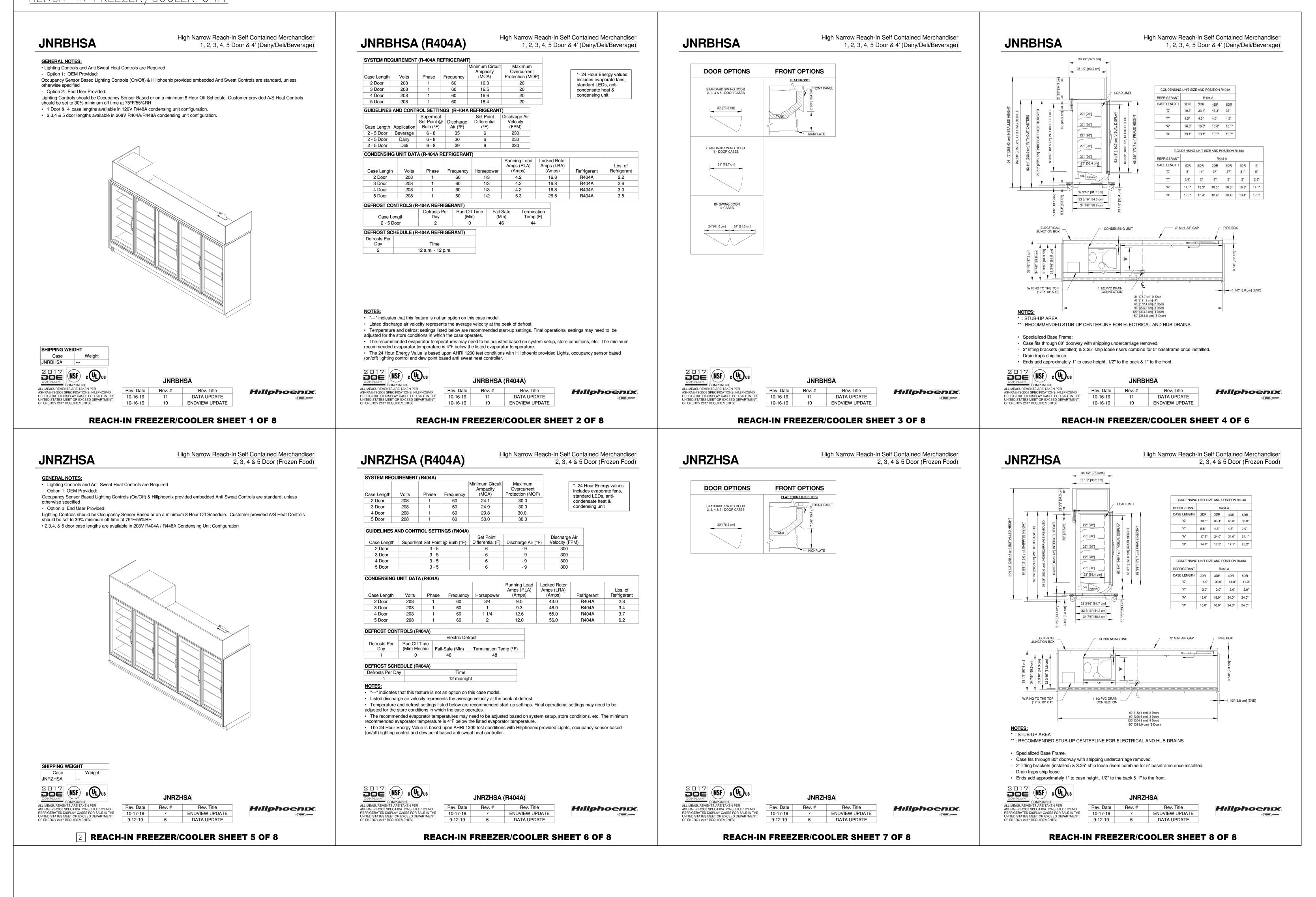
- ASSOCIATION (NFPA) 70, NATIONAL ELECTRICAL CODE. ALL ITEMS ARE

- CONTRACTOR SHALL CUT AS REQUIRED TO INSTALL ELECTRICAL EQUIPMENT. REPAIR OF FLOOR OR WALLS SHALL BE COORDINATED WITH GENERAL CONTRACTOR CONTRACTOR SHALL ALSO REPAIR ALL
- PANELBOARDS SHALL CONTAIN A TYPEWRITTEN DIRECTORY WITH A
- ALL PANELBOARDS, DISCONNECT SWITCHES, MOTOR STARTERS, AND
- MATCH EXISTING.
- Provide specification grade wiring devices. Provide WR type and NEMA 3R while-in-use covers for wiring devices installed outdoors and other areas exposed to water. All GFCI receptacles shall be accessible or protect the circuit with a GFCI circuit breaker. Device colors shall be ivory. Provide standard size stainless steelwall plates. Provide neutral in each switch box. Unless noted otherwise, install receptacles 18" to center and switches 46" to center. Ensure that lighting control devices are fully compatible with luminaires controlled.

monitor devices of other trades (thermostats, other environmental control devices, alarms, etc.).

SALES AREA VESTIBULE 100 $^{\circ}$ SIGNAGE BRANCH CIRCUIT TO BE ROUTED THROUGH "EXTERIOR" CONTROL ZONE OF FUTURE TENANT **PRE-SALES** ENERGY MANAGEMENT SYSTEM. 106

1 ELECTRIC POWER PLAN



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GENERAL CONTRACTOR'S RESPONSIBILITIES:
a. Read Cylon Retail Solutions (CRS) / Dollar Tree (DT) Documentation Package. · Contact Cylon Retail Solutions Inc. at (888) 211-6789 and submit a fully completed EMS Installation Survey.
· Confirm CRS Survey Form is fully completed and EMAILED to CRS National Account Team at Surveys@Cylon.com or FAXED to (855) 224-0879, 24 Hours Prior to scheduling the EMS Commissioning. · EMS Commissioning dates cannot be scheduled until fully completed EMS Installation Surveys have been received and approved by the CRS National Deployment Team. c. Schedule remote EMS commissioning <u>24 hours prior</u> to the requested commissioning date. II. ELECTRICAL RESPONSIBILITIES: Power to all EMS equipment and devices must be OFF while terminations are made. a. Provide all labor and installation material, as required, for a complete and operational EMS for this DT store location. b. Receive and store all CRS material in a dry and secure place until the EMS installation is completed. c. The EMS equipment will be supplied by CRS and installed by an approved DT contractor. d. Review the entire set of plans, perform a job site survey and inventory the CRS equipment to ensure the proper equipment has been ordered and received for a complete and operational CRS EMS.
e. If any material is missing or additional equipment is required, immediately call CRS at (888) 211-6789 to request an order. f. Approved Contractor shall verify number of controlled lighting circuits against the design, réport discrepancies, which cannot be resolved in the field, to the CRS National Account Support Team at (888) 211-6789 and wait for resolution instructions. g. Coordinate the EMS installation with the Mechanical Contractor to avoid any interference that may delay progress during construction. h. Perform all work in accordance with all National, State and Local Codes for this project. i. All EMS cables are to be installed per National and Local Codes. It is the Electrical Contractor's responsibility to determine if National and Local Codes permit Class 2 cables to be installed exposed within the building structure or if a full conduit system is required. . EMT connectors and bushings are to be installed at the top of every conduit sleeve and threaded connector to protect EMS cables from abrasions. k. All cables are to be clearly and distinctly labeled within one foot of both ends. I. Furnish and install all required conduit, boxes, wire ways, fittings, straps, hangers and wiring for a complete and operational EMS as required. m.Furnish and install a dedicated 120 VAC circuit with breaker lock for the EMS Panel. i. Label breaker: DO NOT TURN OFF / EMS ii. Confirm wiring is completed as per this documentation package before applying power. Improper wiring will cause damage to equipment. n. Mount the EMS Panel adjacent to the electrical panels. o. Install an Ethernet cable run from the eSCi RJ-45 jack located in the EMS Panel to the network switch specified by the DT networking team.

p. Call CRS at 888.211.6789 to verify Network Connectivity before proceeding with the EMS installation.

q. Install and terminate the CRS BACnet communication trunk, in a daisy chain fashion, from the EMS Panel to each of the Thermostat Controls and all other BACnet devices. (see this documentation package for requirements)

r. When applicable, mount the Auxiliary I/O Panel adjacent to the EMS Panel and ensure both panels are connected to the same Earth Ground. s. When applicable, ensure the Auxiliary I/O panel is connected in series with the other BACnet devices on the BACnet communications trunk.

t. Mount and terminate the Outdoor Sensor Assembly (OSA) on the HVAC unit that resides closest to the EMS Panel. When installing, make sure OSA enclosure is: i. Mounted on a 1" rigid riser with an 'LB' secured to the back of the OSA (Refer to OTS/OLS Detail as shown on EM-4) ii. Mounted 3 feet above the HVAC unit iii. Mounted facing north, away from the combustion heat blower and condenser fan v. Mounted with the white PVC sensor pointed downward vi.Positioned to allow the Outdoor Light Sensor exposure to full ambient daylight but is not shadowed or exposed to any artificial illumination u. When applicable, mount and terminate the CO2 Sensor as per the location specified by the DT drawings and this documentation package. v. Mount and terminate the Override Button assembly as per the location specified by the DT drawings and this documentation package.
w. Do not adjust the DIP Switches for the EMS Override Buttons. They are factory preset for: x. When applicable, mount and terminate the Indoor Ambient Light Sensor(s) as per the location specified by the DT drawings and the Special Instructions in this documentation package. y. Install and wire load sides of lighting contactors for designated lighting loads and zones as required by DT and this documentation package i. Employee Zone = 40% of Sales floor and 100% of all Stockroom areas ii. Customer Zone = Remaining 60% of Sales Floor iii. Exterior Zone = Building Exterior and Parking lights iv. When applicable, Daylight Zone = First two (2) rows of lights along the store-front windows.

z. Furnish and install a 3-pole, 20-amp breaker/disconnect at the Main Electrical Distribution Panel (MDP) for the Phase Loss Power Monitor and Energy Meter.

aa.When applicable, furnish and install a 3-pole, 20-amp breaker/disconnect at each Electrical Distribution Panel for each additional Phase Loss Power Monitor bb.Terminate wiring as specified in this documentation package.

i. Label Main Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE & ENERGY METER ii. When applicable, label auxiliary Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE ii. When applicable, label auxiliary Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE
iii. Confirm wiring is completed as per this documentation package before applying power. Improper wiring will cause damage to equipment.
cc. Install and terminate the CRS Modbus communication trunk from the eSCi Controller to the Energy Meter. (Refer to OEM instructions and this documentation package for requirements)
dd.Permanently mount and terminate the Electrical Meter in close proximity to the main utility power feed.
ee.Permanently mount the 3 Current Sensors, one each, around the 3 phases of the main utility feed.
ff. Terminate the 3 Current Sensors to the Energy Meter, correctly maintaining Electrical Phase and Meter Input relationships.
gg.Using the OEM Instructions, configure the EMS Energy Meter for:
i. Proper Current Transformer (CT) Ratio - Current Sensor Primary (Ct) = 400 - 1500 Amp
ii. Nominal Line to Line Voltage = 480 Vac
iii. Raud Rate = 19200 v. Voltage Input Mode = True 3 Phase vi.CT Auto Rotation = Auto Rotate Note: The EMS is designed to monitor a single primary 3 phase power feed. Contact CRS for support when attempting to monitor multiple power feeds hh.Provide a technician, on site, for an approximate 2-hour remote telephone checkout with CRS. ii. Coordinate with the Mechanical Contractor to verify HVAC control during the CRS remote telephone checkout.

jj. Prior to scheduling the Remote Commissioning Checkout, the Electrical Contractor will:

i. Confirm CRS Survey Form is completed and EMAILED to CRS National Account Team at Surveys@Cylon.com or FAXED to (855) 224-0879, 24 Hours Prior to scheduling the EMS Commissioning. ii. Confirm the Mechanical Contractor will be present during the CRS Remote Commissioning Checkout. iii. Contact CRS to schedule the EMS Commissioning, 24 hours prior at (888) 211-6789.

Power to all EMS equipment and devices must be OFF while terminations are made.

a. Provide labor and installation material, as required, for a complete and operational EMS for this DT store location.
b. Verify number and type of HVAC units against the design, report discrepancies, which cannot be resolved in the field, to the CRS National Account Support Team at (888) 211-6789 and wait for resolution instructions.
c. Perform all work in accordance with all National, State and Local Codes for this project.
d. Mount and terminate the SimpleSTAT module(s) as per the location(s) specified by the DT drawings and this documentation package.
e. Utilizing 18/8 cable between the SimpleSTAT module and HVAC unit.
i. Terminate C, R, G, Y1, Y2, W1 and W2 on the HVAC state of the SimpleSTAT (s) as shown in this documentation package.
ii. Terminate the communications cables to the SimpleSTAT installation instructions. When communications to the SimpleSTAT will expert a 24/7 as a stand along STAT using the

f. Set address on the SimpleSTAT module, as shown in the SimpleSTAT installation instructions. When communications to the EMS is in a failed state, the SimpleSTAT will operate 24/7 as a stand-alone STAT using the following temperature setpoints: i. Default Cooling Setpoint = 72.0 °F ii. Default Heating Setpoint = 68.0 °F

g. Utilizing the Downrods and associated hardware, specified by the DT drawings and the "Special Instructions" section of this documentation package, mount and terminate the Remote Space Temperature Sensor(s) as per the location(s)specified by the DT drawings.
i. In close proximity to the zone return air grille and away from supply air drafts.
ii. Install and secure the Remote Temperature Sensor wire to the Thermostat Controller.

h. Mount the Supply Duct Temperature sensor of each HVAC unit.

i. The remote Supply Duct Temperature Sensor should be mounted in the main Supply Air Duct on the interior side of the HVAC unit's building penetration.

ii. Utilizing 18/2 wire, terminate the supply duct temperature sensor wire to the Thermostat module as shown in this documentation package.

i. Provide Electrical Contractor with roof plan layout, showing location of HVAC Units on the roof.

. Provide a technician, on site, for an approximate 2-hour remote telephone checkout with CRS.

k. Coordinate with the Electrical Contractor to verify proper HVAC control during the CRS Remote Commissioning Checkout.

IV. CYLON RETAIL SOLUTIONS RESPONSIBILITIES: a. The following services will be supplied by CRS:

III. MECHANICAL RESPONSIBILITIES:

Shipping of all contracted EMS components for the job.

Programming and downloading of CRS equipment and software.

iii. Provide telephone technical support at (888) 211-6789.

iv. Remote system checkout with installing confractor

b. Verification of proper operation of the following items by exercising the controlled load:
i. Timed operation of all applicable EMS lighting loads - Interior and Exterior.
ii. Outside light level control of all applicable EMS lighting loads - Interior and Exterior.

iii. Operation of HVAC heating stages, as indoor environment allows.

iv. Operation of HVAC cooling stages, as indoor and outdoor environments allow. v. Verification of HVAC unit sensor readings - space and supply temperatures.

c. If any end unit (e.g. lighting, HVAC unit, supply air fan, etc.) cannot be operated for mechanical or electrical reasons, CRS will verify the proper operation of the EMS control devices (e.g. contactors, discrete I/O) leading up to the unit, in order to fully verify the operations of the EMS.

d. CRS will issue an "EMS Check-Out Number" once all store systems are verified as operational.

0\4.50	DEVICE LEGEND
SYMBOL	DESCRIPTION
SSC	HVAC UNIT CONTROLLER (SIMPLESTAT)
TRC	HVAC UNIT CONTROLLER (TRC)
— DTS	DUCT TEMPERATURE SENSOR
STS	SPACE TEMPERATURE SENSOR
OLS	OUTDOOR LIGHT SENSOR
OHS OTS	OUTDOOR TEMPERATURE & RELATIVE HUMIDITY SENSORS
RTS	REMOTE TEMPERATURE SENSOR
	INDOOR CO₂ SENSOR
(IHS)	INDOOR RELATIVE HUMIDITY SENSOR
(ILS)	INDOOR LIGHT SENSOR
DOOR SENSOR	O/H DOOR SENSOR
SID	SECURITY INTERFACE DEVICE
eSC	eBUILDING SYSTEM CONTROLLER
ROS	REMOTE OVERRIDE SWITCH
OCC	OCCUPANCY SENSOR

CABLE LEGEND

SHIELDED PLENUM WINDY CITY

MFG.

WINDY CITY

WINDY CITY

WINDY CITY

WINDY CITY

TYPE

SHIELDED

NON SHIELDED

NON SHIELDED

PLENUM

PLENUM

PLENUM

CAT5 E

PLENUM

KEY SIZE

16 18/10

18/4

24/8

FAMILY DOLLAR DRAWING NOTES (FOR REFERENCE ONLY)
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DATE: 06/05/20 | ECN#: 2396

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MFG. PAR

002320-S

002340-S

002392-S

002393-S

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LOOSE DT OPTION

PLAN

ENERGY

MANAGEMENT

EM-1 of 4

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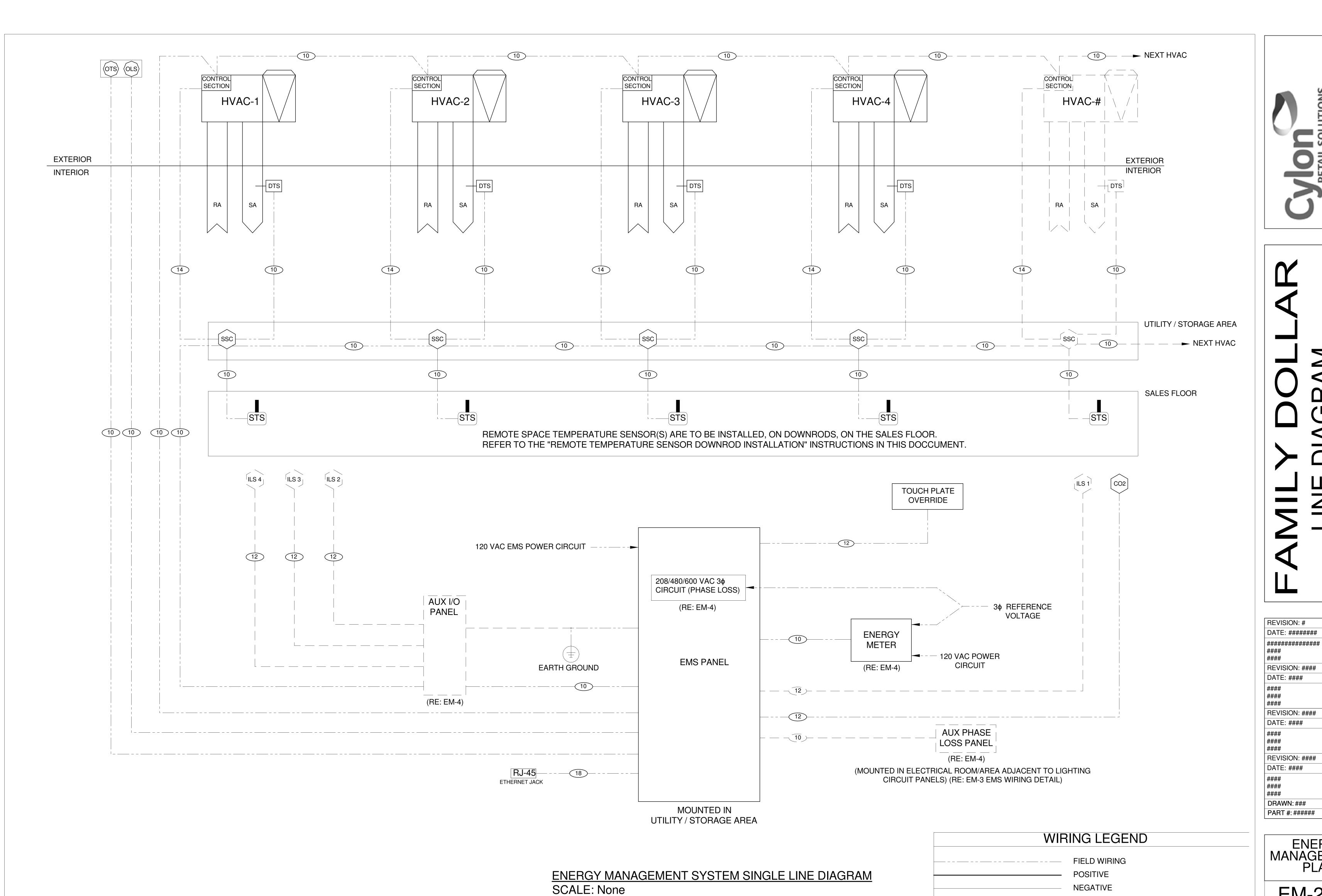




SHEET

EM101

KLH PROJECT



PROFESSIONAL OF RECORD DATE: ####### ECN#: ####

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ENERGY MANAGEMENT PLAN

EM-2 of 4

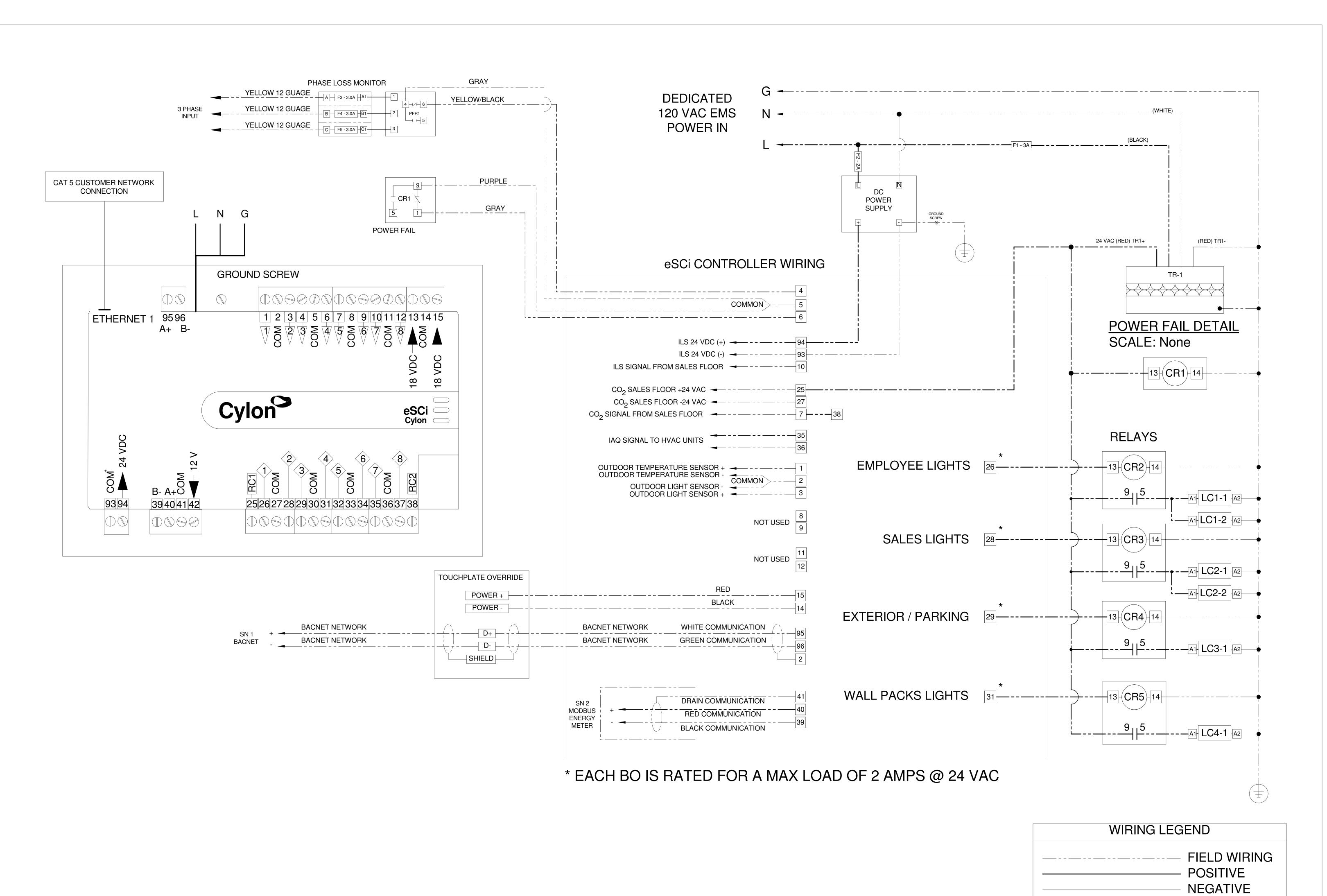
OPTIONAL COMPONENT

EM102

SHEET

KLH PROJECT

FREE 651 UNIO EMS





REVISION: #	
DATE: #######	ECN#: ####
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ENERGY MANAGEMENT PLAN

EM-3 of 4

OPTIONAL

COMPONENT



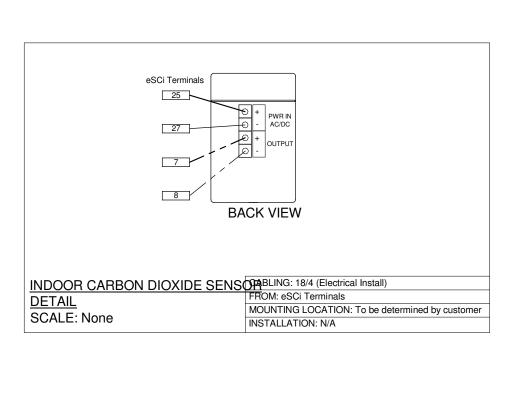


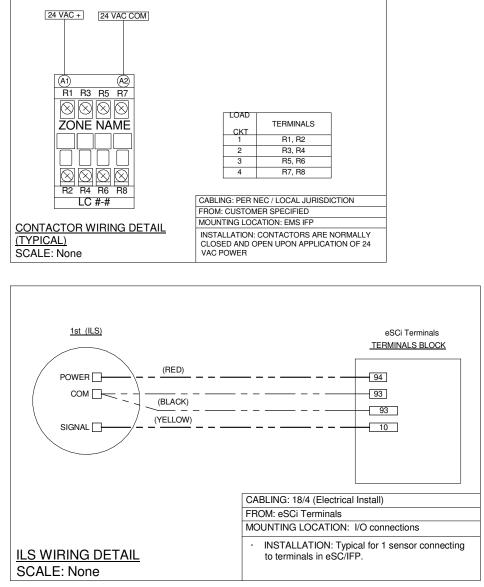


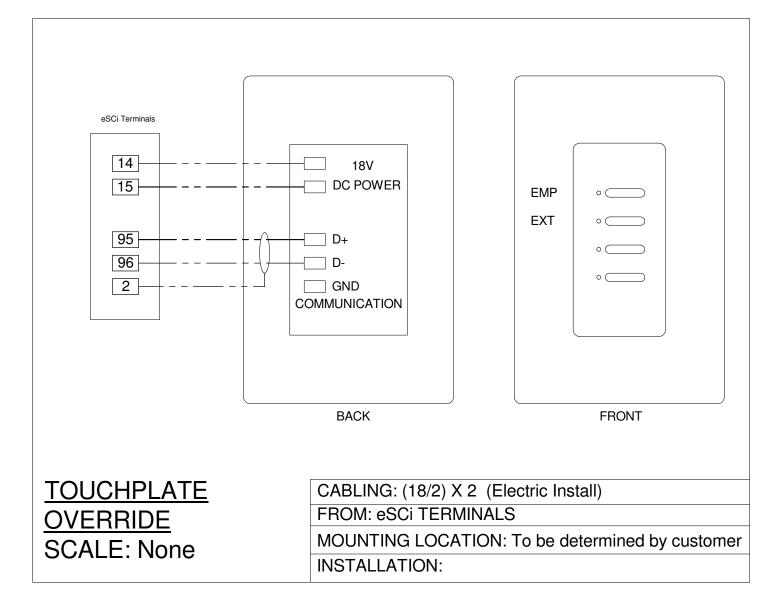
SHEET

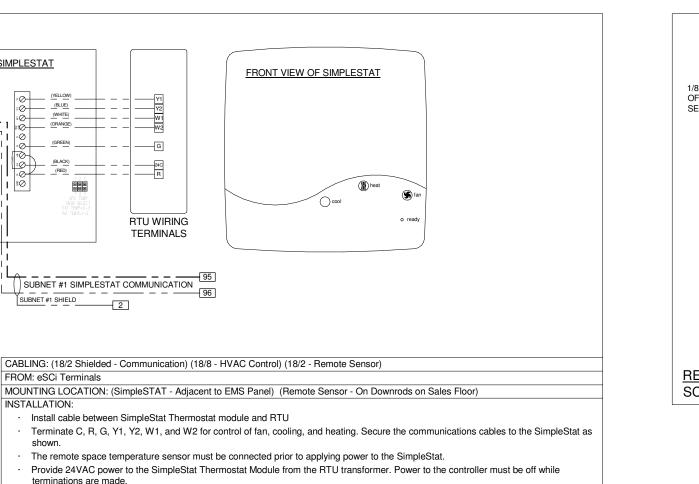
EM103

KLH PROJECT









FRONT VIEW OF SIMPLESTAT

RTU WIRING

SUBNET #1 SIMPLESTAT COMMUNICATION 96
SUBNET #1 SHIELD 2

FROM: eSCi Terminals

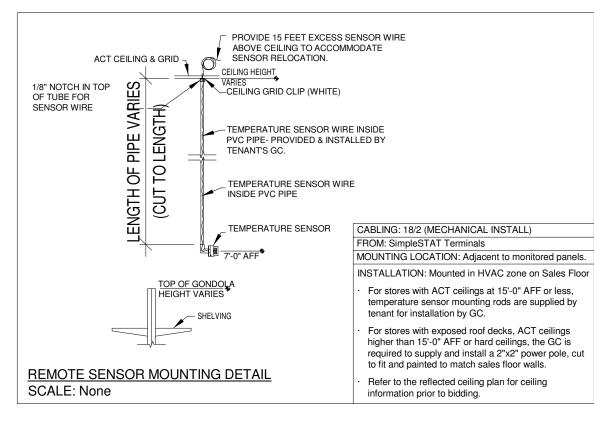
terminations are made.

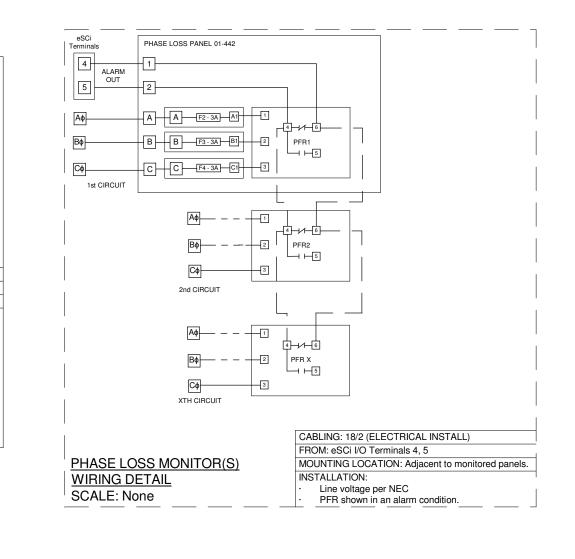
INSTALLATION:

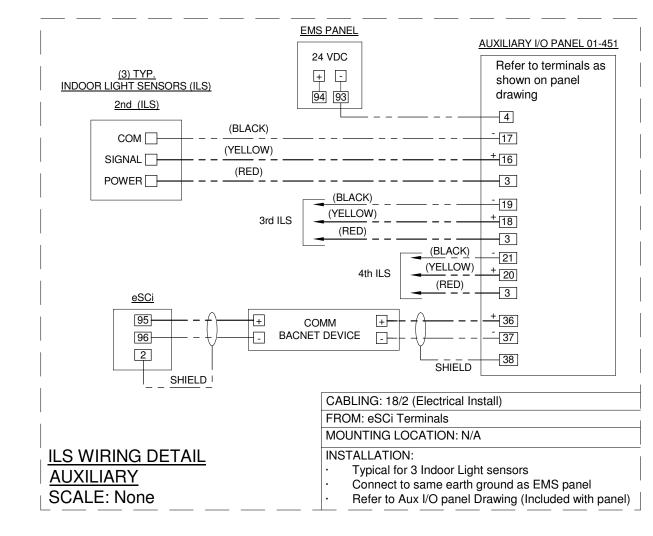
TERMINALS

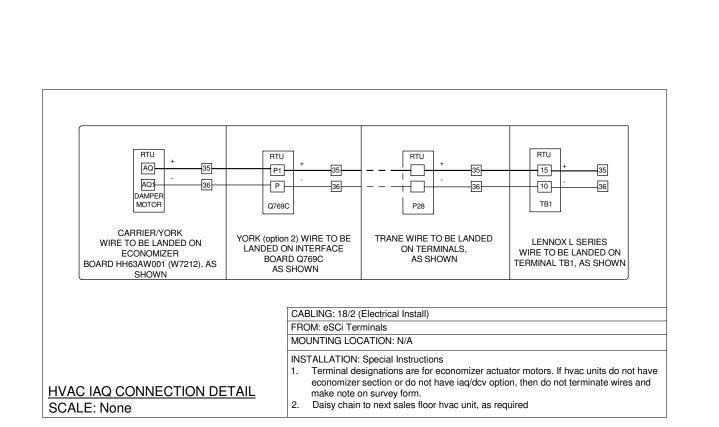
Install cable between SimpleStat Thermostat module and RTU

CABLING: (18/2 Shielded - Communication) (18/8 - HVAC Control) (18/2 - Remote Sensor)









REMOTE TEMPERATURE SENSOR

NEXT TYP.

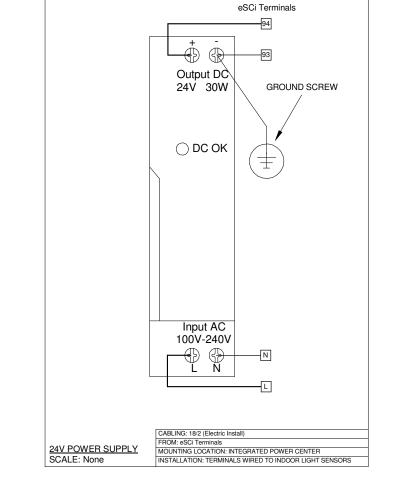
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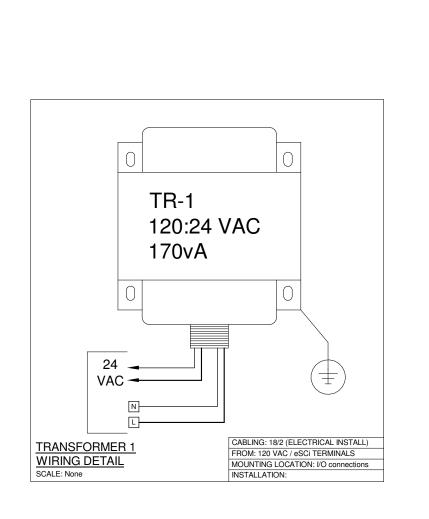
SIMPLESTAT WIRING DETAIL SCALE: None

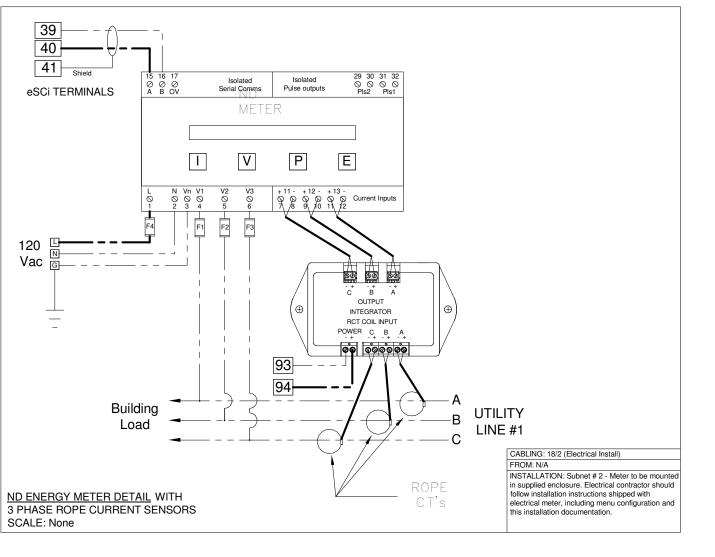
DUCT SENSOR

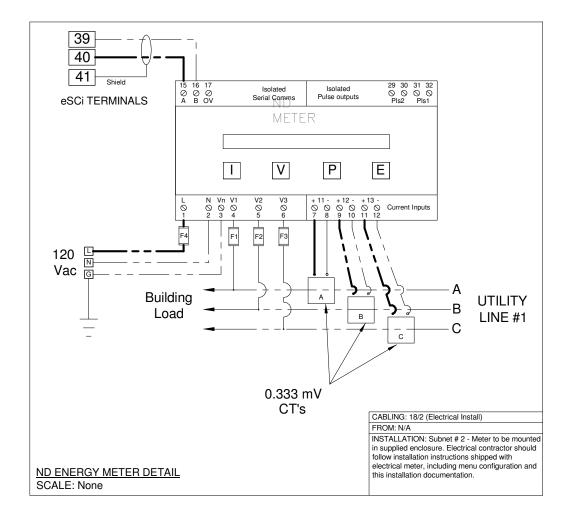
SCALE: None

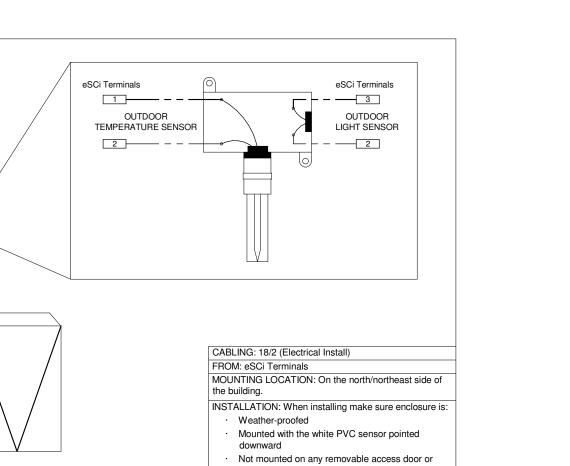
BACK VIEW OF SIMPLESTAT

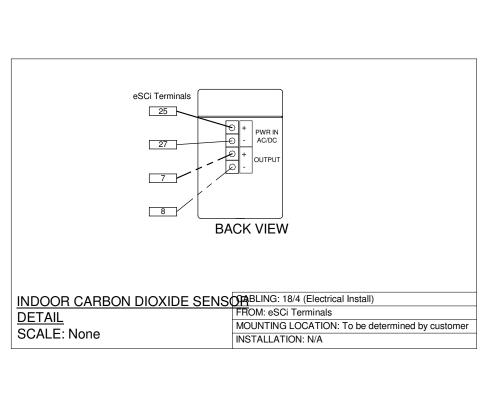


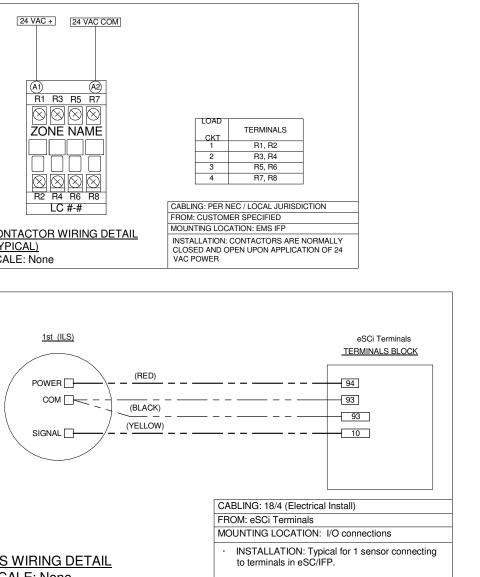


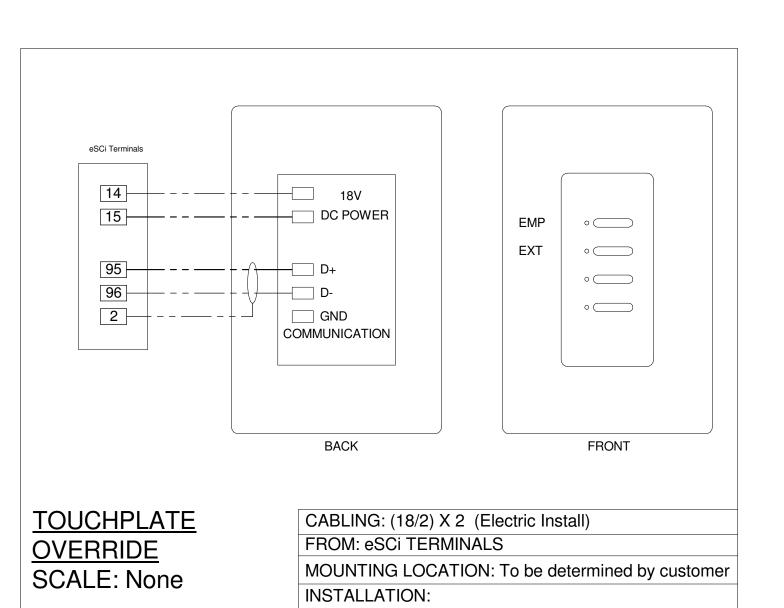






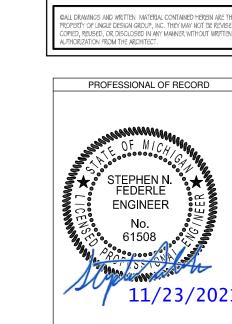












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ENERGY

MANAGEMENT PLAN

EM-4 of 4

DATE: ####

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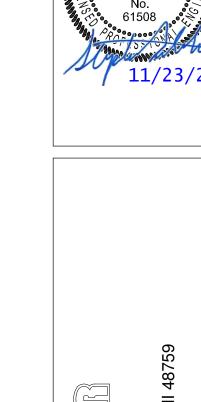
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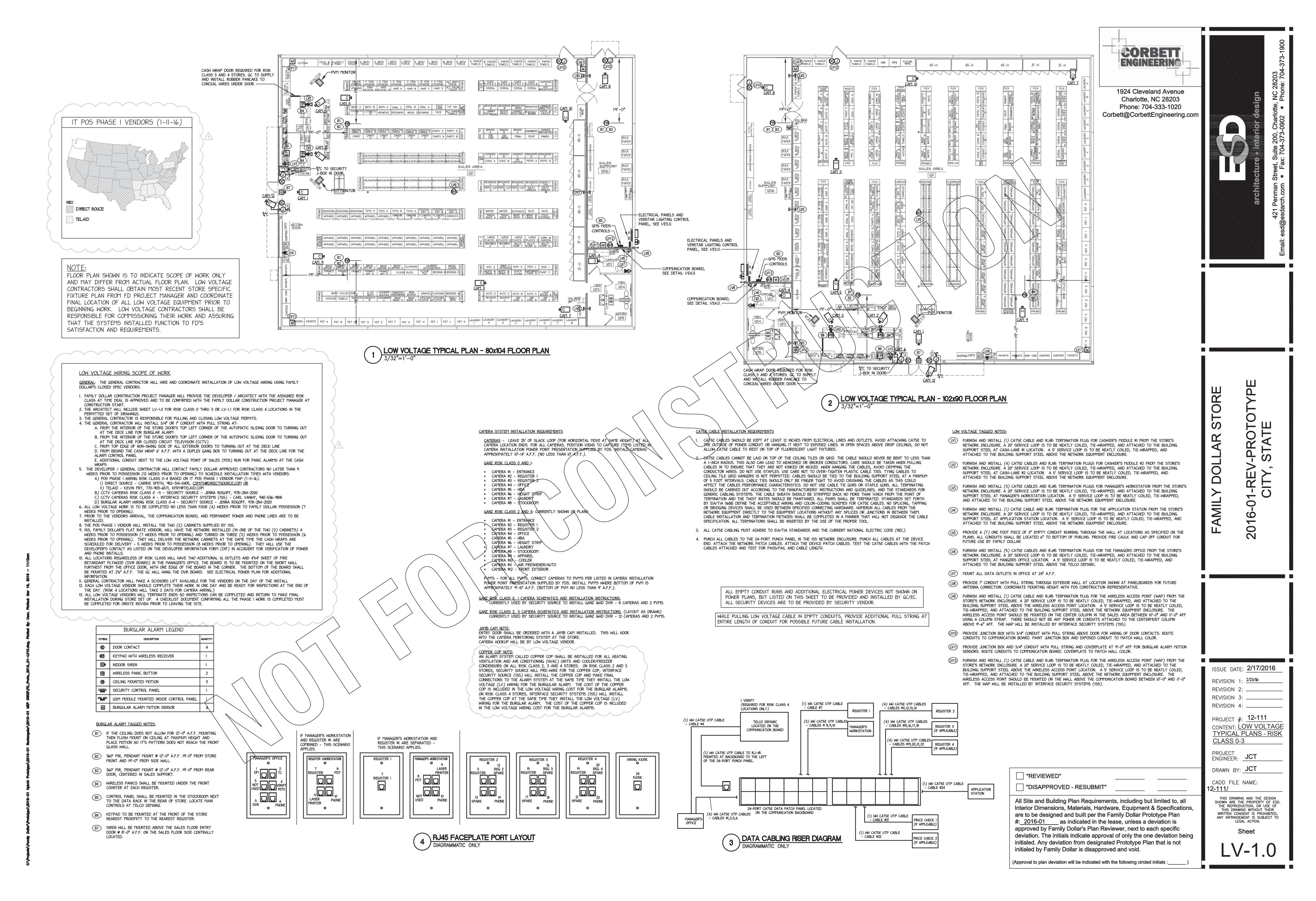


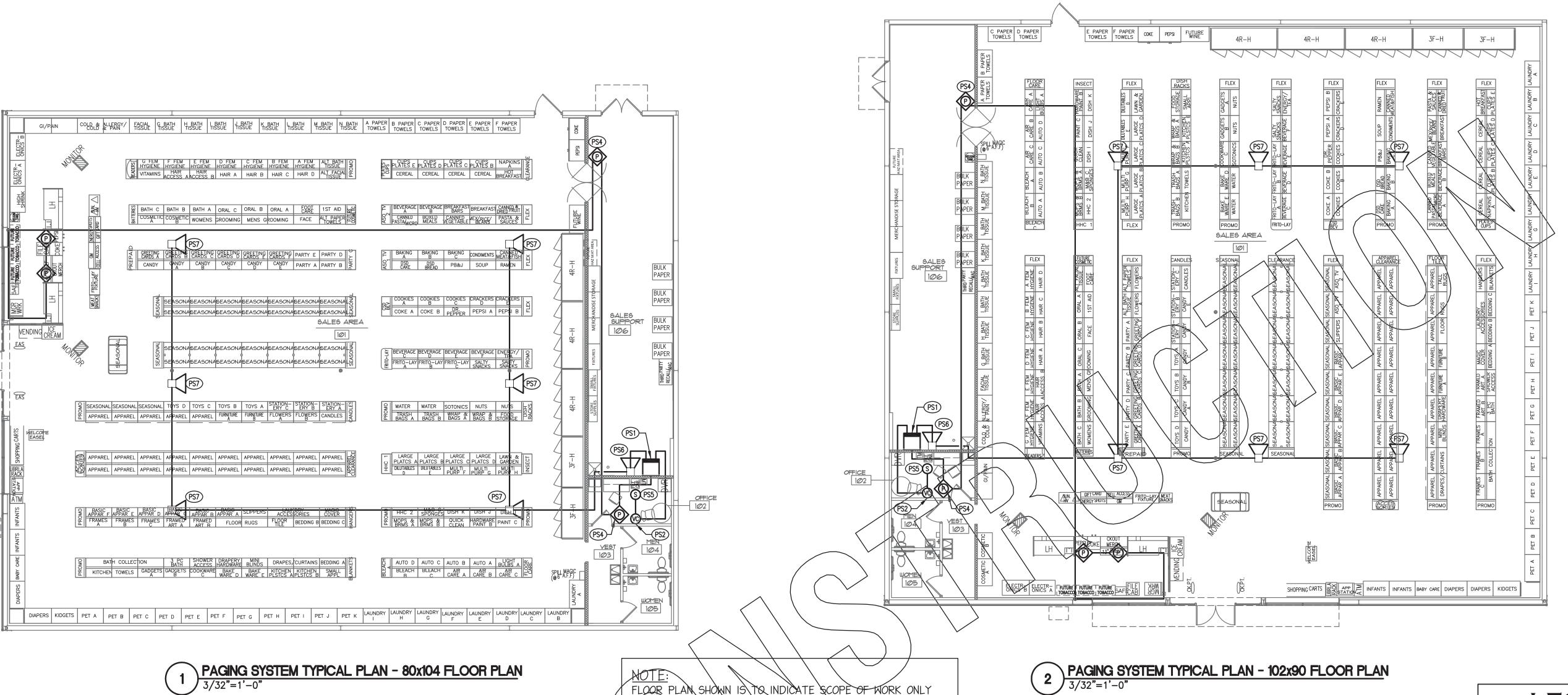
FREES 651 UNION EMS

SHEET

EM104

KLH PROJECT





AND MAY DIFFER FROM ACTUAL FLOOR PLAN. LOW VOLTAGE CONTRACTORS SHALL OBTAIN MOST RECENT STORE SPECIFIC FIXTURE PLAN FROM AD PROJECT MANAGER AND COORDINATE

FINAL LOCATION OF ALL LOW YOLTAGE EQUIPMENT PRIOR TO

RESPONSIBLE FOR COMMISSIONING THEIR WORK AND ASSURING

TALL EMPTY CONDUIT RUNS AND ADDITIONAL ELECTRICAL POWER DEVICES NOT SHOWN ON

POWER PLANS, BUT LISTED ON THIS SHEET TO BE PROVIDED AND INSTALLED BY GC/EC.

WHILE PULLING LOW VOLTAGE CABLE IN EMPTY CONDUITS, PROVIDE ADDITIONAL PULL STRING AT

ALL PAGING SYSTEM DEVICES ARE TO BE PROVIDED BY PAGING SYSTEM VENDOR.

BEGINNING WORK. LOW VOLTAGE CONTRACTORS SHALL BE

THAT THE SYSTEMS INSTALLED FUNCTION TO FD'S

ENTIRE LENGTH OF CONDUIT FOR POSSIBLE FUTURE CABLE INSTALLATION.

-SATISFACTION AND REQUIREMENTS.

PAGING SYSTEM TYPICAL PLAN - 102x90 FLOOR PLAN

3/32"=1'-0"

PAGING SYSTEM TAGGED NOTES:

(PSI) INSTALL HEAD END (AMP AND CONTROLLER) AT THE TOP RIGHT CORNER OF THE COMMUNICATION BOARD.

PS2) INSTALL WALL MOUNTED ATTENUATOR (VOLUME CONTROL) IN OFFICE NEXT TO VENSTAR OPEN/CLOSE PUSHBUTTON. EC/GC TO PROVIDE JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF.

PS3 INSTALL WALL MOUNTED PAGING PHONE IN SALES SUPPORT AREA NEXT TO RECEIVING DOOR. EC/GC TO PROVIDE JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF.

PS4 INSTALL WALL MOUNTED PAGING PHONE IN OFFICE NEXT TO VENSTAR OPEN/CLOSE PUSHBUTTON. EC/GC TO PROVIDE JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF.

PS5 INSTALL RECESSED CEILING SPEAKER IN OFFICE. CENTER WITHIN ACOUSTICAL CEILING TILE.

(PS6) INSTALL PAGING HORN IN SALES SUPPORT AREA AT 12'-0" AFF. CENTER ON BACK WALL.

PS7 INSTALL (6) PAGING HORNS IN SALES AREA. MOUNT TO BOTTOM OF MAIN FRAME BEAMS.

LEGEND

CATSE PLENUM 4PR WHITE

VOICE CATSE PLENUM 4PR WHITE CATSE PLENUM 4PR WHITE

AIPHONE SPEAKER PHONE 22AWG/8 CONDUCTOR PLENUM STRANDED SHIELDED PAGING LOCATION

18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED PAGING HORN
18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED VOLUME CONTROL 18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED

> HEAD END 22AWG/8 CONDUCTOR PLENUM STRANDED SHIELDED 18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED

CORBETT ENGINEERING

1924 Cleveland Avenue Charlotte, NC 28203 Phone: 704-333-1020

Corbett@CorbettEngineering.com

NOTES

PAGING SYSTEM SHALL BE FURNISHED AND INSTALLED BY BAILIWICK. CONTACT AMY SAMPSON AT 800-935-8840 OR EMAIL AT FMDNSO@BAILIWICK.COM FOR ADDITIONAL INFORMATION. CONFIRM ALL LOCATIONS PRIOR TO INSTALL

 DSL EXTENSION FROM DEMARC TO MGR OFFICE VOICE RAN FROM DEMARC LOCATION IN STOCKROOM TO EACH LOCATION ON PLAN

FIRE/BURG INSTALLED WITH RJ3IX MAIN PHONE AND SPARE IN MANAGERS OFFICE WILL USE SPLIT PAIRS FROM ONE CABLE DSL AND DIAL BACKUP IN MANAGERS OFFICE WILL

USE SPLIT PAIRS FROM ONE CABLE FOR STOCK ROOMS, A HORN IS USUALLY INSTALLED FOR

THE CEILING IS USUALLY AT DECK HEIGHT. FOR SALES FLOOR AND OFFICE, A HORN OR SPEAKER MAY BE INSTALLED. THIS DEPENDS ON CURRENT CEILING CONDITIONS. IF YOU WERE SHIPPED SPEAKERS, INSTALL SPEAKERS ON THE SALES FLOOR AND OFFICE. IF YOU

HAVE HORNS, INSTALL THE HORNS. CONSULT WITH THE BAILIWICK PM IF YOU ARE UNSURE.

"REVIEWED"

TIDISAPPROVED - RESUBMIT

All Site and Building Plan Requirements, including but limited to, all Interior Dimensions, Materials, Hardware, Equipment & Specifications, are to be designed and built per the Family Dollar Prototype Plan #: 2016-01 as indicated in the lease, unless a deviation is approved by Family Dollar's Plan Reviewer, next to each specific deviation. The initials indicate approval of only the one deviation being initialed. Any deviation from designated Prototype Plan that is not initialed by Family Dollar is disapproved and void.

(Approval to plan deviation will be indicated with the following circled initials:_____

~ 4 O AMIL

ISSUE DA	TE:	2/17/2016
REVISION	1:	2/23/16
REVISION	2:	3/14/16
REVISION	3:	

REVISION 4: PROJECT #: 12-111 CONTENT: PAGING SYSTEM TYPICAL

<u>PLANS</u> ENGINEER: JCT

DRAWN BY: JCT CADD FILE NAME: 12-111/

> THIS DRAWING AND THE DESIGN SHOWN ARE THE PROPERTY OF ESD. THE REPRODUCTION, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED, ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION. Sheet