

TENANT IMPROVEMENT

HomeGoods

Summit Orchards, Lot 4B

492 NW Chipman Rd [△]

Lee's Summit, MO 64086



Permit/ Construction Set

November 08, 2019



ARCHITECT

SLAGGIE ARCHITECTS, INC.
4600 MADISON AVENUE, SUITE 350
KANSAS CITY, MISSOURI 64112
PHONE: (816) 756-1958
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MEP ENGINEER

SMITH & BOUCHER
25501 WEST VALLEY PARKWAY
OLATHE, KS. 66061
PHONE: (913) 344-0033

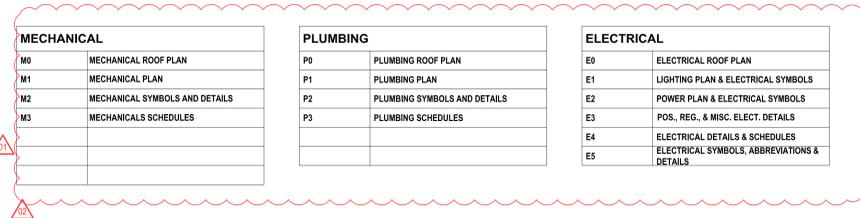
DRAWING INDEX

ARCHITECTURAL	
A1	GENERAL INFORMATION
A2	FLOOR PLAN
A3	WALL SECTIONS & MISC. DETAILS
A4	INTERIOR ELEVATIONS & DETAILS
A5	REFLECTED CEILING PLAN
A6	FIXTURE PLAN

MECHANICAL	
M0	MECHANICAL ROOF PLAN
M1	MECHANICAL PLAN
M2	MECHANICAL SYMBOLS AND DETAILS
M3	MECHANICALS SCHEDULES

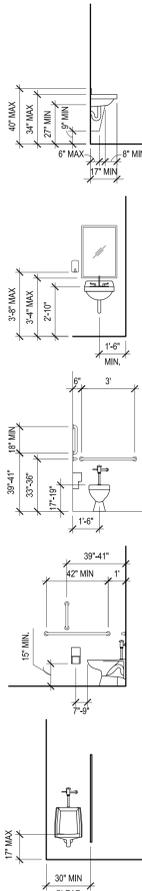
PLUMBING	
P0	PLUMBING ROOF PLAN
P1	PLUMBING PLAN
P2	PLUMBING SYMBOLS AND DETAILS
P3	PLUMBING SCHEDULES

ELECTRICAL	
E0	ELECTRICAL ROOF PLAN
E1	LIGHTING PLAN & ELECTRICAL SYMBOLS
E2	POWER PLAN & ELECTRICAL SYMBOLS
E3	POS., REG., & MISC. ELECT. DETAILS
E4	ELECTRICAL DETAILS & SCHEDULES
E5	ELECTRICAL SYMBOLS, ABBREVIATIONS & DETAILS



GENERAL NOTES

- THE WORK INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO THE COMPLETION, IN PLACE OF ALL WORK AS ILLUSTRATED AND DESCRIBED IN DRAWINGS AND OUTLINE SPECIFICATIONS AS PREPARED BY T.J.X. ALL SUCH WORK IS TO BE DONE BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS AT THE JOB SITE, AND SHALL NOTIFY T.J.X. IN WRITING OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS PRIOR TO SUBMITTAL OF BID OR BE RESPONSIBLE FOR THE SAME.
- ALL WORK IS TO CONFORM TO THE REQUIREMENTS OF THE LOCAL AND STATE CODES. COORDINATE WITH THE OUTLINE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND FOR INSURING THAT ALL WORK CONFORMS TO APPLICABLE BUILDING CODES.
- WHERE COLOR AND DESIGN SELECTIONS ARE REQUIRED, THE CONTRACTOR SHALL SUBMIT SAMPLES TO T.J.X. FOR APPROVAL AND SELECTION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO T.J.X. FOR APPROVAL PRIOR TO FABRICATION OF ANY WORK SPECIFIED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND PROPER INSTALLATION OF SAID WORK.
- UNLESS OTHERWISE NOTED, IN THE T.J.X. OUTLINE SPECIFICATIONS, NO SUBSTITUTIONS.
- THE GENERAL CONTRACTOR SHALL HAVE DIRECT CONTROL AND MANAGEMENT OF ALL CONSTRUCTION OPERATIONS AND BE RESPONSIBLE FOR THE SATISFACTORY OVERALL PERFORMANCE OF ALL HIS SUPPLIERS AND SUBCONTRACTORS AS WELL AS ALL ASSIGNED CONTRACTORS.
- THE GENERAL CONTRACTOR IS TO RECEIVE, HANDLE, (STORE IF NECESSARY) AND BE RESPONSIBLE FOR ALL MATERIALS PROVIDED BY OTHERS. ALL MATERIALS SHALL BE ACCOUNTED FOR UPON RECEIPT. ANY MISSING OR DAMAGED PARTS SHALL BE REPORTED TO T.J.X. IMMEDIATELY.
- ALL WORK IS TO BE NEW EXCEPT WHERE INDICATED AS EXISTING.
- ALL WOOD TO BE FIRE RETARDANT. RATINGS TO MEET REQUIREMENTS OF LOCAL, STATE, AND FEDERAL CODES.
- GENERAL CONTRACTOR TO TURN OVER THE PROJECT IN COMPLETE OPERATING CONDITION.
- THE CONTRACTOR IS RESPONSIBLE FOR TURNING OVER THE PREMISES IN A CLEAN CONDITION READY FOR T.J.X. TO BEGIN OPERATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, CLEANING ALL WINDOWS (INSIDE AND OUT), MIRRORS, AND REMOVAL OF DUST FROM SURFACES AND FINAL VACUUMING OF CARPETS.
- THE REFLECTED CEILING PLAN SHALL INDICATE LOCATION OF ALL EQUIPMENT AND LIGHTING. T.J.X. PROJECT MANAGER IS TO BE INFORMED OF ALL CONFLICTS AND PROPOSED RESOLUTIONS. T.J.X. PROJECT MANAGER HAS THE RIGHT TO FINAL APPROVAL OF PROPOSALS.
- FLOORING CONTRACTORS SHALL BE RESPONSIBLE FOR PROPER PREPARATION AND INSTALLATION OF NEW FLOORING FINISHES. PREPARATION INCLUDES ADEQUATE CURING TIME FOR THE MASTIC TO REACH PROPER THICKNESS TO SET NEW FLOORING FINISHES. REFER TO T.J.X. SPECIFICATION MANUAL FOR REQUIREMENTS FOR PREPARATION & TESTING.
- FOR PURPOSES OF CLARITY, REFERENCES TO "C" REFERS TO THE CRITERIA DRAWINGS.



ADA Restroom Fixture Standards

CODE REVIEW

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED.

PROJECT INFORMATION SUMMARY :		FLOOR AREA ALLOWANCES PER OCCUPANT (TABLE 1004.5) :	
BUILDING OCCUPANCY:	GROUP M - MERCANTILE	NAME	AREA
NON-SEPARATED OCCUPANCIES:	GROUP B - BUSINESS GROUP S-1 - (MODERATE HAZARD STORAGE)	MERCANTILE SALES FLOOR	17,893 S.F.
BUILDING CONSTRUCTION CLASS:	TYPE IIB	BUSINESS	3,337 S.F.
BUILDING PROTECTED BY AUTOMATIC SPRINKLER SYSTEM:	YES	S1 MODERATE HAZARD STORAGE	1,908 S.F.
BUILDING IS PROTECTED BY AUTOMATIC FIRE ALARM SYSTEM (NFPA 70 AND NFPA 72):	YES	LOCKER ROOM	100 S.F.
APPLICABLE CODES :		TOTAL OCCUPANT LOAD	
BUILDING CODE:	INTERNATIONAL BUILDING CODE 2018 EDITION	332	
MECHANICAL CODE:	INTERNATIONAL MECHANICAL CODE 2018 EDITION	EGRESS WIDTH REQUIREMENTS (SECTION 1005) :	
PLUMBING CODE:	INTERNATIONAL PLUMBING CODE 2018 EDITION	STAIRS: 0.3 INCH PER OCCUPANT = (0.3) X 116 (OCC) = 34.8"	
ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE 2017 EDITION	OTHER MEANS OF EGRESS: 0.2 INCH PER OCCUPANT = (0.2) X 216 (OCC) = 43"	
FIRE CODE:	INTERNATIONAL FIRE CODE 2018 EDITION	EGRESS WIDTH PROVIDED WITH STAIRS = 67.2" > 34.8" REQUIRED	
GAS CODE:	INTERNATIONAL FUEL GAS CODE 2018 EDITION	EGRESS WIDTH PROVIDED AT EXIT DOORS = 119.6" > 43" REQUIRED	
ANSI A117.1:	ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2017 EDITION	NUMBER OF EXITS PER SPACE (SECTION 1006.3.2) :	
FIRE-RESISTANCE - BUILDING ELEMENTS (TABLE 601) :		EXITS REQUIRED: 1 TO 500 OCCUPANTS 2 EXITS REQUIRED	
FOR TYPE IIB CONSTRUCTION :		ACTUAL EXITS PROVIDED	
PRIMARY STRUCTURAL FRAME:	0 HRS	4 EXITS	
BEARING WALLS - EXTERIOR AND INTERIOR:	0 HRS	OCCUPANT LOAD (FOR EXITING)	
NONBEARING WALLS - EXTERIOR:	PER TABLE 602	332 OCCUPANTS	
NONBEARING WALLS - INTERIOR:	0 HRS		
FLOOR CONSTRUCTION:	0 HRS		
ROOF CONSTRUCTION:	0 HRS		

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) :		LAVATORIES:	
OCCUPANCY M MAX. DISTANCE ALLOWED (WITH SPRINKLER SYSTEM):	250'-0"	OCCUPANCY TYPE MERCANTILE:	
OCCUPANCY B MAX. DISTANCE ALLOWED (WITH SPRINKLER SYSTEM):	300'-0"	1 PER 750	
OCCUPANCY S-1 MAX. DISTANCE ALLOWED (WITH SPRINKLER SYSTEM):	250'-0"	TOTAL: 332 OCC.	
MAX. TRAVEL DISTANCE PROVIDED:	188'-0"	MALE: 149 OCC. REQUIRED: 149 / 750 = 198	
PLUMBING FIXTURES (TABLE 2902.1) :		FEMALE: 149 OCC. REQUIRED: 149 / 750 = 198	
WATER CLOSETS:		OCCUPANCY TYPE BUSINESS:	
OCCUPANCY TYPE MERCANTILE:		1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER	
1 PER 500		TOTAL: 28 OCC.	
TOTAL: 332 OCC.		MALE: 14 OCC. REQUIRED: 14 / 40 = 35	
MALE: 149 OCC. REQUIRED: 149 / 500 = 298		FEMALE: 14 OCC. REQUIRED: 14 / 40 = 35	
FEMALE: 149 OCC. REQUIRED: 149 / 500 = 298		OCCUPANCY TYPE STORAGE:	
OCCUPANCY TYPE BUSINESS:		1 PER 100	
1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER		TOTAL: 6	
TOTAL: 28 OCC.		MALE: 3 OCC. REQUIRED: 3 / 100 = .03	
MALE: 14 OCC. REQUIRED: 14 / 25 = 56		FEMALE: 3 OCC. REQUIRED: 3 / 100 = .03	
FEMALE: 14 OCC. REQUIRED: 14 / 25 = 56		TOTAL REQUIRED:	
OCCUPANCY TYPE STORAGE:		MALE: 58 (1)	
1 PER 100		FEMALE: 58 (1)	
TOTAL: 6		TOTAL REQUIRED: .616 (1)	
MALE: 3 OCC. REQUIRED: 3 / 100 = .03		TOTAL PROVIDED: 2	
FEMALE: 3 OCC. REQUIRED: 3 / 100 = .03		REQUIRED SERVICE SINK:	
TOTAL REQUIRED: 2		REQUIRED: 1	
MALE: 88 (1)		PROVIDED: 1	
FEMALE: 88 (1)			
PROVIDED: 2			
MALE: 2			
FEMALE: 2			



PROJECT LOCATION Location Map

ABBREVIATIONS

A.F.C.	ABOVE FINISHED CEILING	M	MIRROR
A.F.F.	ABOVE FINISHED FLOOR	MATL	MATERIAL
AL	ALUMINUM	MAX	MAXIMUM
B.O.	BY OTHERS	MECH	MECHANICAL
B.S.	BULLETIN BOARD	MFR	MANUFACTURER
BD	BUILDING	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLK	BLOCKING	MTD	MOUNTED
BLKG	BLOCKING	MTL	METAL
C.H.	CEILING HEIGHT	N.A.	NOT APPLICABLE
C.R.	CASH REGISTER	N.I.C.	NOT IN CONTRACT
CAB	CABINET	N.T.S.	NOT TO SCALE
CLR	CLEAR	NAT.FIN.WD	NATURAL FINISHED WOOD
COL	COLUMN	O.C.	ON CENTER
COLLACQ.	COLORS LACQUER	O.D.	OUTSIDE DIMENSION
CONST	CONSTRUCTION	OPNG	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
CR.P.L.	CHROMIUM PLATE		
DIA	DIAMETER	±	PLUS OR MINUS
DIM	DIMENSION	PART	PARTIAL
DITTO	THE SAME-REPEAT	PARTN	PARTN
DR	DOOR	PLWD	PLYWOOD
DTL	DETAIL	POL	POLISHED
DWG	DRAWING	POL.P.L.G.L.	POLISHED PLATE GLASS
DWR	DRAWER	P.O.S.	POINT OF SALE
ELEC	ELECTRIC	PT	PAINT
EQ	EQUAL	PTD	PAINTED
ELEV	ELEVATION	R.H.	RIGHT HAND
EWC	ELECTRIC WATER COOLER	REINF	REINFORCED
EXG	EXISTING	RENF	REMOVABLE
EXT	EXTERIOR	REQD	REQUIRED
F.S.	FULL SIZE	REV	REVISION
FN	FINISH	RM	ROOM
FXT	FIXTURE	S.C.	SHOPPING CENTER
FL	FLOOR	S.F.	SQUARE FEET
FR	FITTING ROOM	S.S.	SERVICE SINK
G.C.	GENERAL CONTRACTOR	SECT	SECTION
G.H.	GARMENT HANGER	SIM	SIMILAR
GA	GAUGE	S.L.D.R.	SLIDING DOORS
G.F.J.	GROUND FAULT INTERRUPT	SPEC	SPECIFICATION
GL	GLASS	STD	STANDARD
GYP.BD.	GYP-SUM BOARD	STL	STAINLESS STEEL
H.R.	HANGRAIL	ST.L.	STRUCTURAL
HD	HEAVY DUTY	SUSP	SUSPENDED
HDW	HARDWARE	T.R.	TIME RECORDER
HDWD	HARDWOOD	TEL	TELEPHONETYPICAL
HOT	HEIGHT	VERT	VERTICAL
HORIZ	HORIZONTAL	W.C.	WALL COVERING
LD.	INSIDE DIMENSION	WD	WOOD
INT	INTERIOR		
L.H.	LEFT-HAND		
LL	LANDLORD		
LAMD.PLAS.	LAMINATED PLASTIC		

SYMBOLS

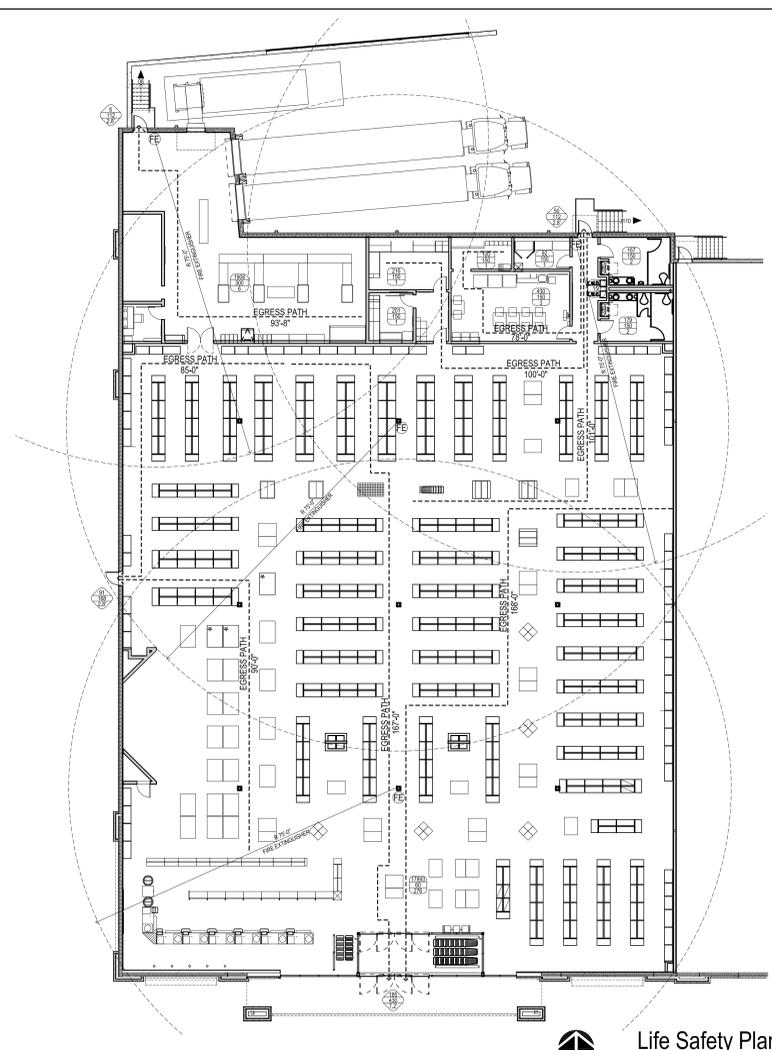
⊙	DETAIL IDENTIFICATION DRAWING NUMBER
□	ROOM NUMBER
○	DOOR NUMBER
⊕	ELEVATION NUMBER
⊖	ELEVATION NUMBER
○	FINISH NUMBER
△	REVISION NUMBER
—	BROKEN DIM. LINE
∠	ANGLE
⊙	AT
⊕	CENTERLINE
NO. / #	NUMBER
⊕	PLATE

APPROVED VENDOR LIST

"Long Lead Time Possible"

Note: When contacting vendors, please indicate that you are working on a T.J.X. project to ensure national account pricing/supply.

06 - CARPENTRY Shelwell Column Corner Guard Wine M Woodwork, Inc. 290 Balsam Road Shobogan Fall, WI 53085 800-545-7528 (Sales) 800-629-3555 (8 Week Lead Time) Light Valance/Molding Flood Wall Molding/Focal Wall K/Restroom Mirror Molding DGS Retail Inc. 60 Wade Street Manfield, MA 02048 508-337-2980 (4 Week Lead Time) Corner Guards ATR Sales, Inc. 41 Tabbot Road Northboro, MA 01522 508-393-4529	08 - DOORS & GLASS Automatic Door Operators Sterley Automatic Doors 65 Scott Swampy Road Farmington, CT 06032 860-474-0442 (8 Week Lead Time) Doors, Door Frames, and Door Hardware DHI Floor National Accounts 1901 E 119th St Olathe, KS 66061 Primary Contact Nancy Taylor - Project Manager 417-651-5885 x 5102 Info@dhifloor.com Secondary Contact Mark Lugin - General Manager 417-651-5885 x 5101 tjdoors@dhifloor.com	09 - FINISHES Acoustical Ceiling System Armstrong World Industries 2500 Industrial Drive Lancaster, PA 17603 800-442-4212 (Onsite/Inst. Serv.) Wood Accent Wall PFR Baler & Compressor Co. 2207 East Ontario Street Philadelphia, PA 19134 215-533-5100 Conceptor & Security Door Metro Door, Inc. 1201 North Church Street Hazleton, PA 16801 Blair Niemeyer 800-469-3667 x653 Wallcovering D.L. Couch Wallcovering 3800 South Memorial Drive P.O. Box 570 New Castle, IN 47362 800-434-0789 (4 Week Lead Time) Wallcovering Surface Materials 6655 Franklin Blvd. Sakon, OH 44139 440-246-0000 (4 Week Lead Time)	10 - EQUIPMENT Processing Transition Strip MAPEI Corp. 1144 East Newport Center Dr. Dierfield Beach, FL 33442 800-442-4212 (800-426-2734 Dock Seals and Bumpers Frontier Dock & Door 35R Holden Street Winchester, MA 01890 800-243-3302 Hand Dryer EXCEL (ALEATOR) 888-994-4128 Conveyors Speedway as distributed by: Deluxe Systems, Inc. 50 Stratford Drive Avon Industrial Park Avon, MA 02322 508-888-4410 (8 Week Lead Time)	15 - MECHANICAL HVAC Equipment Roof Exhaust Fans Diffusers/Gilles/Heaters Nesco 40 Hudson Road Canton, MA 02021 800-244-6980 (8 Week Lead Time) HVAC Controls Nover Controls 5 Paradise Drive Haver de Grace, MD 21078 216-682-1600 800-346-1235 (4 Week Lead Time)	16 - ELECTRICAL General Light Fixtures, Plugload, Power Poles, Safety Switches, GE Lighting control panel Nesco 40 Hudson Road Canton, MA 02021 800-244-6980 (8 Week Lead Time) Door Alarm American Sentinel Group 75 Barker Street Plymouth, MA 02559 781-426-9599
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Site Plan

Life Safety Plan

ITEMS SUPPLIED BY HOMEGOODS AND INSTALLED BY G.C.

- HomeGoods - Landlord Build-to-Suit
(Outline Specifications #180)
- Floor Mounted Carriage Bumper
 - Wall Bumper
 - Cup Dispenser
 - Sanitary Napkin Dispenser
 - Sanitary Napkin Dispenser
 - Toilet Paper Dispenser
 - Paper Towel Dispenser
 - Deodorant Holder
 - Soap Dispenser
 - Toilet Seat Cover Dispenser
 - Restroom Trash Receptacle
 - Permanent Chrome Roll
 - Plugload for Lamp Gondolas and Sales Floor Walls
 - Power Poles
 - LP Bench
 - Pin Lock Box
 - Baby Changing Table

LEGEND

---X---	MAXIMUM TRAVEL DISTANCE
---X---	MAXIMUM TRAVEL DISTANCE
→	DIRECTION OF OCCUPANT FLOW THROUGH ELEMENT
⊕	NUMBER OF OCCUPANTS ADVANCING
⊕	ROOM / SPACE AREA (SQ FT)
⊕	OCCUPANT LOAD FACTOR (SQ FT / PERSON)
⊕	NUMBER OF CALCULATED OCCUPANTS
⊕	TOTAL NUMBER OF OCCUPANTS EXITING
⊕	CAPACITY OF EXIT ELEMENT
⊕	EXIT WIDTH (DECIMAL FEET)
⊕	10 POUND, A-B-C FIRE EXTINGUISHER

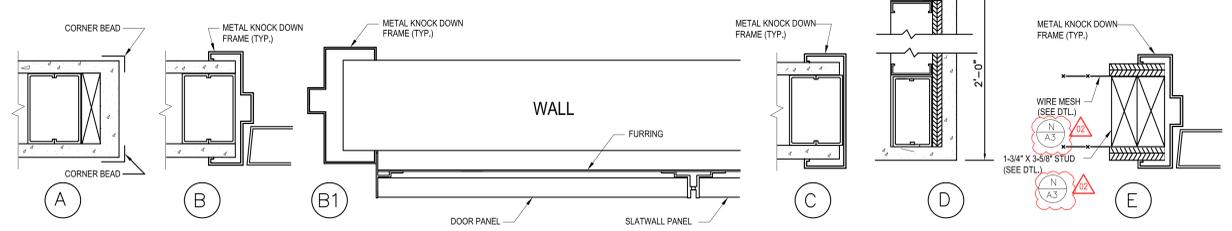
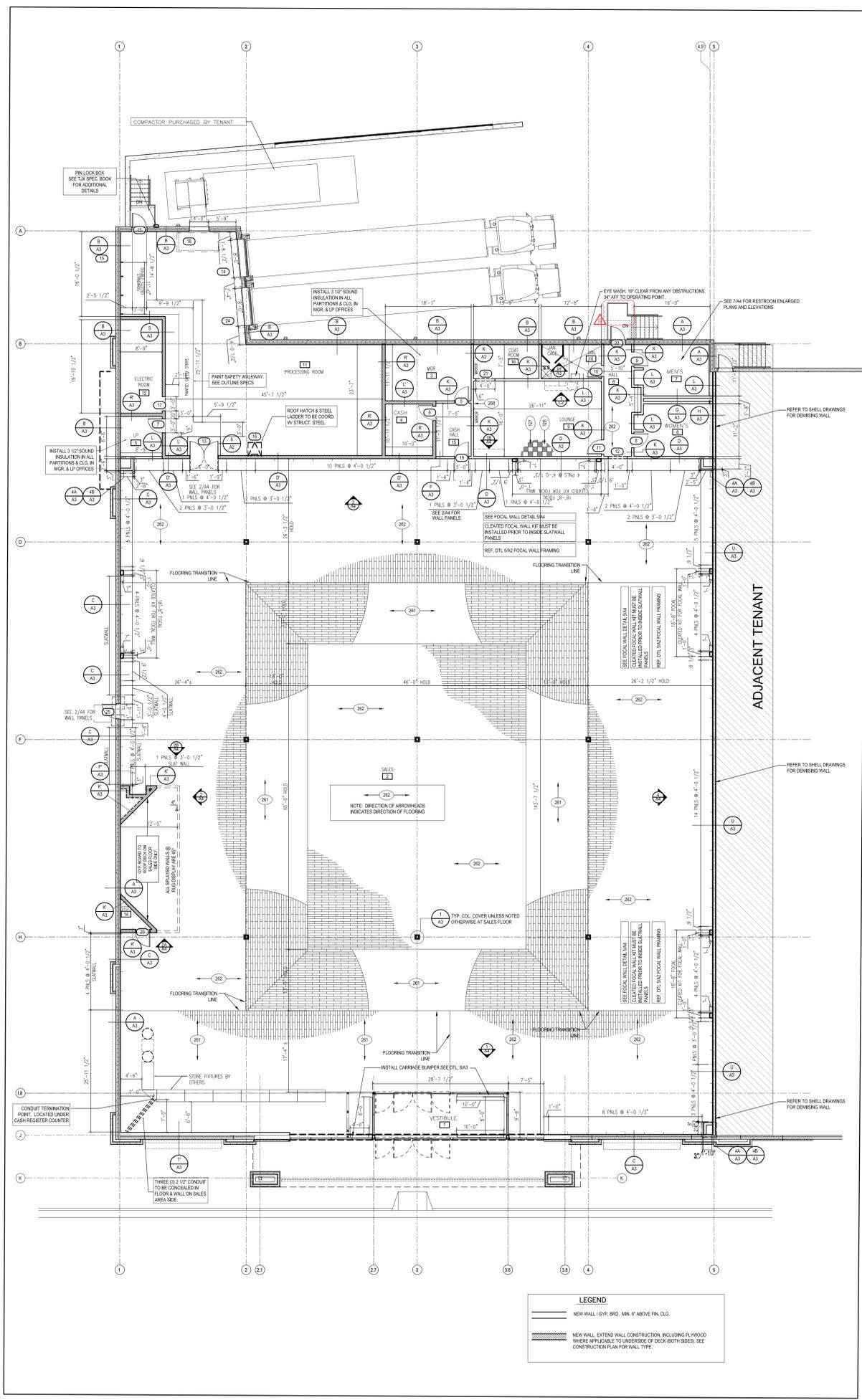
HomeGoods
Tenant Improvements
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Revisions:

02	A55-02 Tenant Comments	12-18-19
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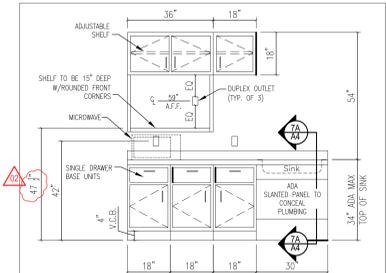
Project #: 180902-02

Construction / Permit Set
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FOR FURTHER DETAIL ON WALL SYSTEM INSTALLATION, REFER TO THE MANUFACTURER INSTALLATION INSTRUCTIONS.

HEAD AND JAMB



AS MANUFACTURED BY "HAMPTON BAY READY KITCHEN" (OR EQUAL)
 (1) 30" W X 27" H X 22" D CLEAR KITCHEN SPACE AT SINK
 (2) 18" W X 24" D BASE CABINET
 (3) 18" H X 36" W X 12" D WALL CAB. WITH 1 ADJUST. SHELF
 (4) 18" H X 18" W X 12" D WALL CAB. WITH 1 ADJUST. SHELF

COLOR: MANUFACTURER'S STANDARD WHITE FINISH
 FURNISH MANUFACTURER'S STANDARD 4" WIRE PULLS

COORDINATE LOCATION OF PAPER TOWEL AND SOAP DISPENSERS WITH T.J.X. PM.

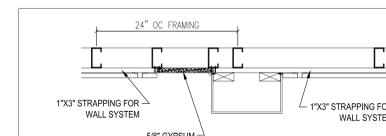
ELECTRICAL REQUIREMENTS AS SHOWN

ONE "ADA" COMPLIANT STAINLESS STEEL SINK WITH 22" X 25" BOWL, SIZE X 6" DEEP, AND "ADA" COMPLIANT FAUCET

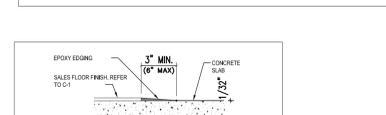
AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS:
 CONTRACTOR SHALL ORDER "HANDICAP CABINETS" COMPLYING WITH ADA REQUIREMENTS AS FOLLOWS: 34" IS MAX. HEIGHT PERMITTED TO TOP OF SINK RIM OR COUNTER. PROVIDE SINK THAT DOES NOT EXCEED MAXIMUM DEPTH OF 6 1/2".

PROVIDE SLANTED FRONT PANEL AT SINK TO CONCEAL PLUMBING. COLOR TO MATCH CABINETS.

1 KITCHEN UNIT ELEVATION
 NOT TO SCALE



5 FOCAL WALL FRAMING
 NOT TO SCALE



6 FLOORING TRANSITION
 SALES FLOOR TO PROCESSING ROOM
 N.T.S.

ALL TOILET FIXTURES, HARDWARE, ACCESSORIES, MIRRORS, AND FINISHES TO BE SUPPLIED BY G.C. AS PER TENANT SPECS.
 TOILET PAPER HOLDERS AND ALL DISPENSERS ARE SUPPLIED BY TENANT AND INSTALLED BY G.C.
 G.C. IS RESPONSIBLE TO PROVIDE ALL BLOCKING FOR TOILET ROOM ACCESSORY INSTALLATION. PLEASE COORDINATE WITH SHEET 04 OF THE CRITERIA PLANS AND THE T.J.X. PROJECT MANAGER FOR EXACT LOCATIONS.

NOTE:
 ANY EXPOSED, EXISTING WALLS IN PROCESSING ROOM TO BE PAINTED FROM FLOOR TO CEILING OR TO UNDERSIDE OF ROOF DECK. REFER TO ROOM AND FINISH SCHEDULE FOR COLOR.

- PROVIDE BURGLAR PROOF HINGES N.P.P. WHERE EXPOSED TO OUTSIDE OR COMMON AREAS.
- PROVIDE DOOR STOP ON ALL DOORS (INCLUDING SAFE DOOR), WHERE THEY ARE LIABLE TO DAMAGE THE WALL OR ADJACENT FIXTURE.
- PAINT ALL METAL DOORS. REFER TO INTERIOR ELEVATIONS SHEET.
- ALUMINUM ALLOY DOUBLE ACTION DOOR (ONE OR TWO DOORS) TO BE "EASY SWING" TYPE.
- ALL LOCKS AND LOCKING DEVICES ARE TO BE BEST CONSTRUCTION CORRES
- G.C. TO INSTALL PERMANENT CORES SUPPLIED BY TENANT.
- DOOR HOLDERS TO BE INSTALLED ON THE KICK-PLATE SIDE OF DOOR, EXCEPT AT TOILET ROOMS.
- FOR EXTERIOR DOORS, PULL TO BE INSTALLED ON INSIDE OF DOOR, ABOVE DETEX.

SLATWALL PANEL SYSTEMS:
 REFER TO SECTION 6A OF THE OUTLINE SPECIFICATION FOR WORK RESPONSIBILITY REGARDING SLATWALL PANEL SYSTEM.

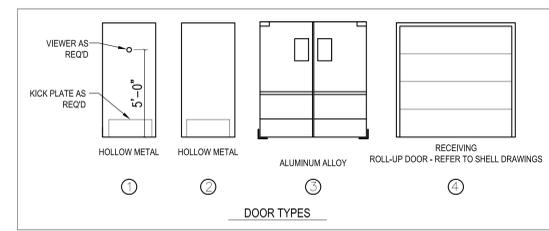
INSTALLATION INSTRUCTIONS FOR PREFABRICATED WALL PANEL (SLATWALL) AND METAL SLATWALL COMPONENTS ARE INCLUDED AS A PART OF THE PACKAGE. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BECOME FAMILIAR WITH THESE INSTRUCTIONS PRIOR TO PROVIDING A PRICE OR COMMENCEMENT OF WORK.

G.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING V.C.B. ON ALL CHECKOUTS, LAYWAY PICK-UP COUNTER, LOUNGE KITCHENETTE, AND INSIDE/OUTSIDE JEWELRY COUNTER (IF APPLICABLE).

HOMEGOODS ROOM MATERIAL & FINISH SCHEDULE						
NO	AREAS	FLOOR	BASE	WALL	CEILING	REMARKS
1	VESTIBULE					
2	SALES					
3	MANAGER'S OFFICE					
4	CASH OFFICE					
5	L.P. OFFICE					
6	HALL AT LOUNGE					
7	MEN'S TOILET					
8	WOMEN'S TOILET					
9	LOUNGE					
10	JANITOR'S CLOSET					
11	PROCESSING ROOM					
12	ELECTRIC ROOM					
13						
14	STORAGE ROOM @ RUGS					
15	HALL AT CASH					
16	COAT ROOM					
17						

DOOR & HARDWARE SCHEDULE									
DOOR LOCATION	NO.	OPENING SIZE (W/H)	HEAD & JAMB TYPE	TYPE	KICKPLATE	HARDWARE	REMARKS		
VESTIBULE EXT. DR.	1	16'-0" x 7'-0"	---	---	---	---	---		
VESTIBULE INT. DR.	2	16'-0" x 7'-0"	---	---	---	---	---		
MANAGER OFFICE	3	5'-0" x 7'-0"	B	1	1 SIDE	ACGLZ	---		
CASH OFFICE	4	5'-0" x 7'-0"	B	1	1 SIDE	ACGLZ	---		
L.P. OFFICE	5	5'-0" x 7'-0"	B	1	1 SIDE	ACGLZ	---		
WOMEN'S TOILET	6	5'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
MEN'S TOILET	7	5'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
JANITOR'S CLOSET	8	5'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
LOUNGE	9	5'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
HALL AT LOUNGE	10	5'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
6" STOCK DOORS	11	6'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
LOADING DOOR DR.	12	8'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
EXT. WDR DOOR	13	8'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
ELECTRIC ROOM	14	8'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
COMPACTOR DOOR	15	4'-0" x 4'-0"	B	2	1 SIDE	ACGLZ	---		
HALL @ MGR. OFFICE	16	3'-0" x 7'-0"	B1	2	1 SIDE	ACGLZ	---		
RUG ROOM CLOSET	17	4'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
SINGLE WDR EXT. DR.	18	3'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
LOADING DOOR DR.	19	8'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		
SINGLE WDR EXT. DR.	20	3'-0" x 7'-0"	B	2	1 SIDE	ACGLZ	---		

REFER TO FIXTURE INSTALLATION MANUAL FOR 'ADA' EXIT SIGNS AS NOTED ON DOOR & HARDWARE SCHEDULE.



NO.	HARDWARE	MANUFACTURER
A	HINGE	STANLEY FEB 179 4 1/2" X 4 1/2" (1 1/2" PR.)
AT	FLOOR MOUNT DOOR STOP	ROCKWOOD #444
B	DOUBLE ACTION HINGE	ROCKWOOD #202 6 X 4 1/2" (1 1/2" PR.)
C	CLOSER	SEN "SMOOTH" #201 (ON WDR 300)
D	DOOR STOP	SEN "SMOOTH" #201 (ON WDR 300)
E	PUSH PLATE	ROCKWOOD 700 4" X 7" PUSH PLATE US320
F	PASSAGE LOCK	ROCKWOOD 110 X 200 PULL PLATE 4" X 7" US320
G	HICKEY	ROCKWOOD 1100 2" X 3" HICKEY US320
H	WEATHERSTRIPPING	BEST #390N-250-626
I	PASSAGE LOCK	BEST #390N-250-626
J	WEATHERSTRIPPING	BEST #390N-250-626
K	DUMM	BEST #1E4-626
L	LEVER LOCKSET	BEST #390N-250-626
LI	LEVER LATCHSET	BEST #390N-250-626
M	LEVER LATCHSET	BEST #390N-250-626
N	TUBULAR DEAD LOCK	BEST #170L-1-51-626 (for exterior door w/cut out)
O	PASSAGE LOCK	BEST #170L-1-51-626 (for exterior door w/cut out)
P	EMERGENCY ALARM EXIT LOCK	SEN NO. LCL 2300-14
Q	EMERGENCY ALARM EXIT LOCK	SEN NO. LCL 2300-14
R	CHAIN CRASH STOP	SEN #115
S	WEATHERSTRIPPING	NATIONAL GUARD D627A (BRUSH SEAL)
T	WEATHERSTRIPPING	NATIONAL GUARD D627A (BRUSH SEAL)
U	PUSH BUTTON LOCKSET	ALARM LOCK 10 2900C-260 TRICOY 12 (KEY OVERRIDE)
V	DOOR HOLDER	ROCKWOOD 401 (US260 BRUSHED STAINLESS STEEL)
W	DOOR HOLDER	SEN #26030 ALUMINUM FINISH
X	CLOSER LOCKSET (TACTILE)	BEST #390N-250-626
Y	PRIVATELY LEVEL SET	ROCKWOOD 55 US260
Z	PUSH BOLTS	ROCKWOOD 55 US260
AA	WEATHERSTRIPPING	SEN-30 MFC, INC. # LP-206
AB	WEATHERSTRIPPING	SEN-30 MFC, INC. # LP-206

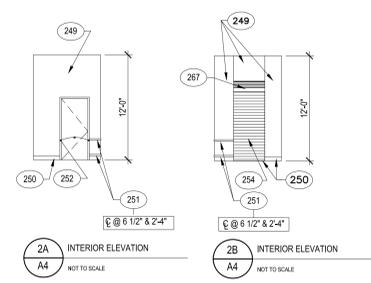
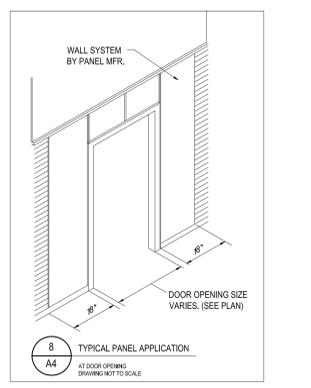
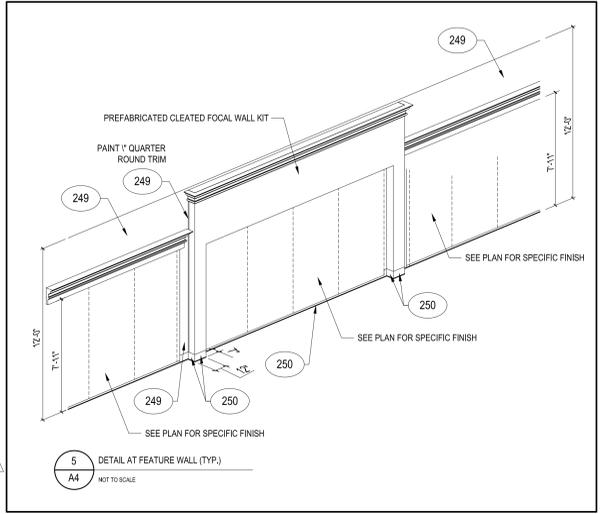
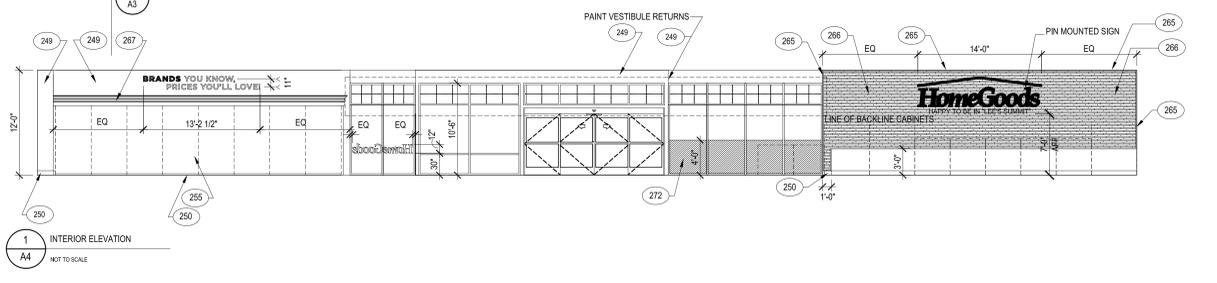
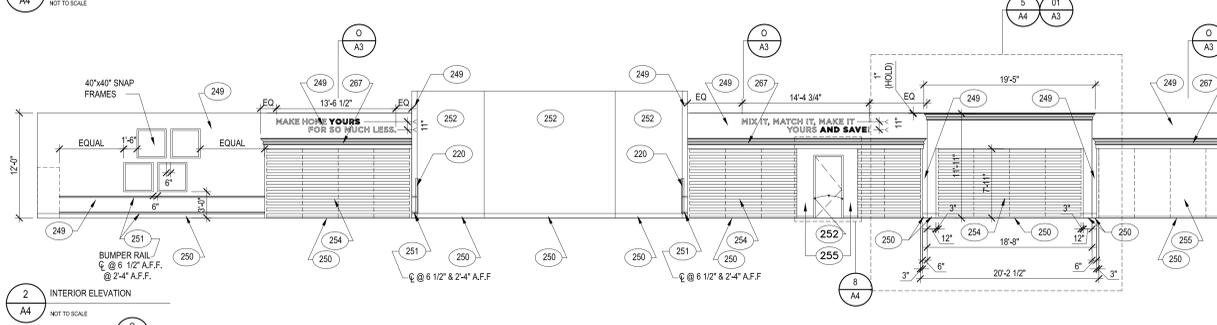
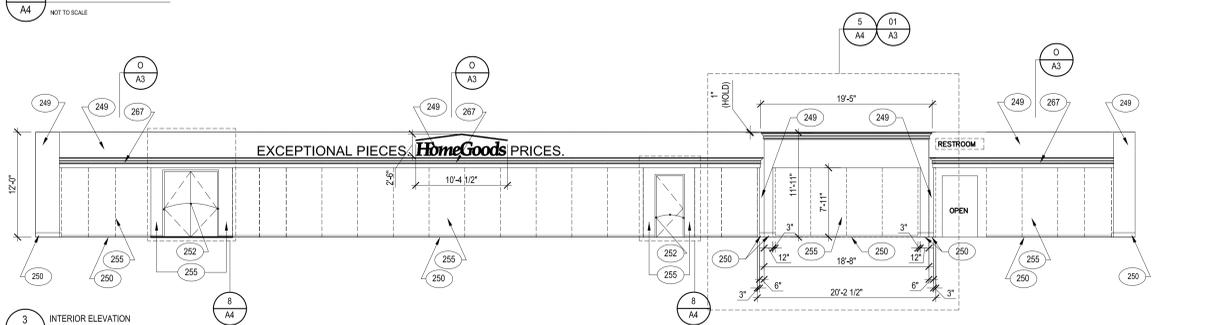
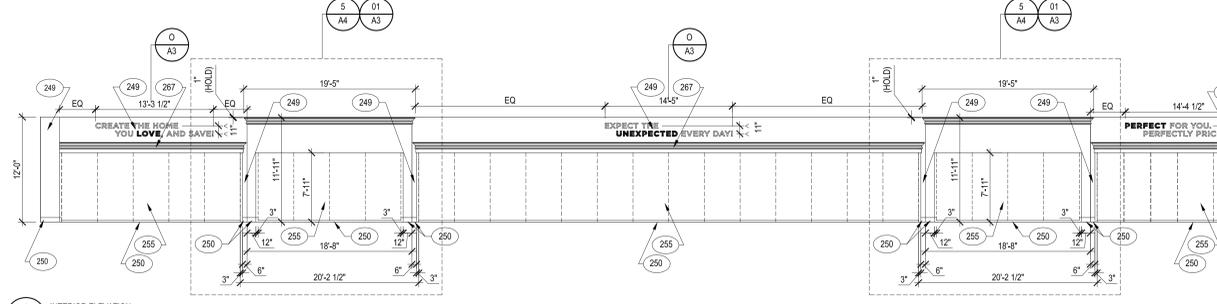
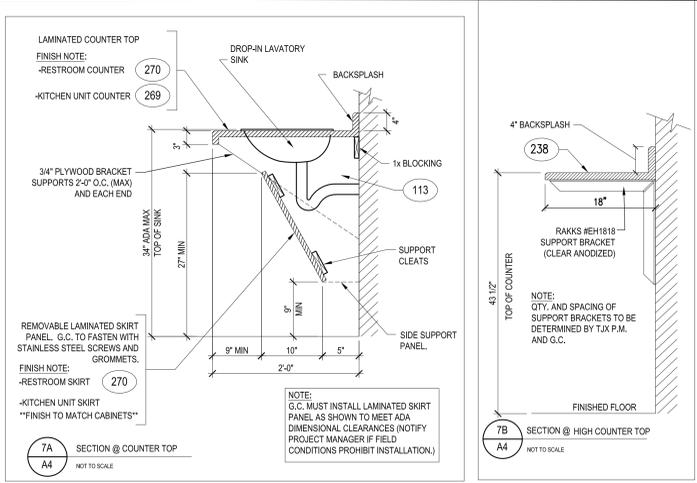
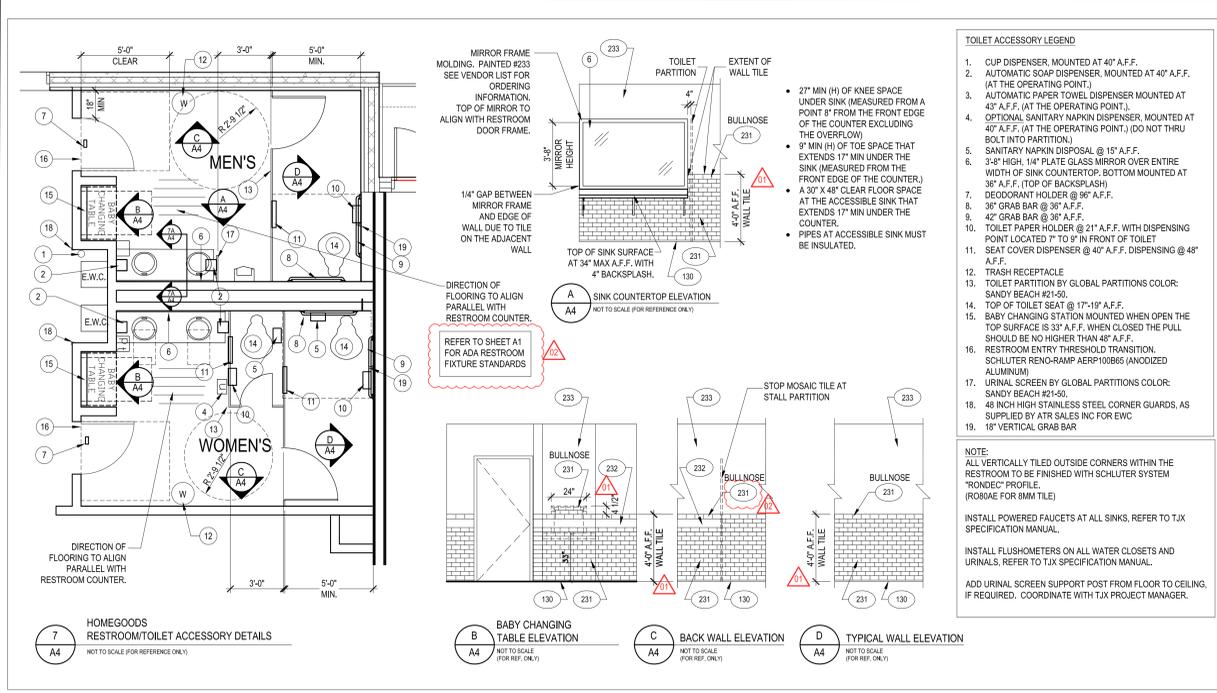
HARDWARE TO BE FINISHED AS FOLLOWS:
 HINGES: Stainless Steel Finish
 DOOR CLOSERS: AL (sprayed aluminum)
 PUSH, PULL & KICK PLATES: US320 (stainless steel satin finish)
 BALANCE OF HARDWARE: US260 (dull chromium plated)

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CORNER GUARDS (TYP) @ ALL 90° CORNERS SHALL RECEIVE PAWLING CLEAR LEXAN STYLE #CG-17, 1 1/2" X 1 1/2" X 4-1/2" LENGTH (EXCEPT BOXED COLUMNS AT 2-0" A.F.F.), NO SUBSTITUTIONS. ALL CORNER GUARDS TO BE FASTENED TO WALL WITH SCREWS, NO ADHESIVES.

SLATWALL PANEL SYSTEMS:
REFER TO SECTION 6A OF THE OUTLINE SPECIFICATION FOR WORK RESPONSIBILITY REGARDING SLATWALL PANEL SYSTEM.
INSTALLATION INSTRUCTIONS FOR PREFABRICATED WALL PANEL (SLATWALL) AND METAL SLATWALL COMPONENTS ARE INCLUDED AS A PART OF THE PACKAGE. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BECOME FAMILIAR WITH THESE INSTRUCTIONS PRIOR TO PROVIDING A PRICE OR COMMENCEMENT OF WORK.

FINISH NO.	MATERIAL	MANUFACTURER	SPECIFICATION
112	PAINT	BENJAMIN MOORE	#P22 SUPER SPEC URETHANE ALKYO GLOSS ENAMEL BASE; 3B / COLOR: DECK GRAY WITH SAND ADDED FOR NON-SLIP FINISH
113	PAINT	BENJAMIN MOORE	REGAL #988 "DUNE WHITE" (SEMI-GLOSS 333)
115	ENTRANCE GRID MATTING	MATWORKS	AMBASSADOR - TP - CHARCOAL WITH TP TAPE
119	PAINT	BENJAMIN MOORE	#2142-70 "ICICLE" (SEMI-GLOSS)
118	FRP	MARLITE	#N4-61-TM02 "AURA PEARL"
126	WALL COVERING	DL COUCH	RAVE - WHITE OUT #57518
127	VINYL COMPOSITION TILE	ARMSTRONG	IMPERIAL TEXTURE - SOFT WARM GRAY #51861
128	VINYL COMPOSITION TILE	ARMSTRONG	DILEX-AHK (AHK18100AE), MATERIAL: SATIN ANODIZED ALUMINUM, SIZE: 100 (38-10 MM), OUTSIDE CORNERS 90 DEGREES - EBO/AHK18100AE STAIN ALUMINUM, CUSTOMER SERVICE 800-472-4688
130	COVE BASE	SCHLUTER SYSTEMS	#967 "CLOUD WHITE" • CEILING (PLAT) • EXTERIOR (EGGSHELL)
138	PAINT	BENJAMIN MOORE	#979 "WHITE OPULENCE" (SEMI-GLOSS)
201	PAINT	BENJAMIN MOORE	#P22 SUPER SPEC URETHANE ALKYO GLOSS ENAMEL BASE; 4B / COLOR: SAFETY BLACK
203	VINYL COMPOSITION TILE	ARMSTRONG	IMPERIAL TEXTURE #51836 SHELTER WHITE
210	NON-SLIP VINYL COMPOSITION	ARMSTRONG	#71 MID GRAY, 6"
213	VINYL COVE BASE	ARMSTRONG	4212135 CLEAR W/ HOLES AND SCREWS
218	CORNER GUARD	PAWLING	WHITE (VALANCE WITH CROWN MOLDING)
219	CORNER GUARD	WINDMILL	#111 SILVER, NOTE: ALL BUMPER ARE 2" IN DIAMETER
220	CORNER GUARD	TRI-GUARD	INSIDE/OUTSIDE CORNER MOLDING #3852
221	SINTRA	DGS RETAIL INC.	COLOR: WHITE. NO SUBSTITUTIONS.
223	VINYL BUMPER RAIL	MCCUE	4212135 CLEAR W/ HOLES AND SCREWS
224	SPANDREL GLASS	SOLAR SEAL	WHITE (VALANCE WITH CROWN MOLDING)
231	CERAMIC TILE	DALTILE	#111 SILVER, NOTE: ALL BUMPER ARE 2" IN DIAMETER
232	CERAMIC TILE	DALTILE	1" CLEAR/CLEAR WITH SPANDREL, 1/4" CLEAR WITH 0-0186 LITE WHITE (2), 1/2" AIR SPACER, 1/2" CLEAR.
233	PAINT	BENJAMIN MOORE	SUBWAY TILE, SEMI-GLOSS ALMOND (2) K165-37" H X 6" L PROFILE, FOR TOP ROW USE SEMI-GLOSS ALMOND (2) S-4369 (BULLNOSED ON 8" SIDE), GROUT TO BE LATICRETE "ANTIQUE WHITE" #23 (3/16") (WALL TILE).
238	LAMINATE	FORMICA	STONE COLLAGE: RADIANCE, #SA-60 BUTTERNUT 3" H X 6" L (RANDOM PATTERN) GROUT TO BE LATICRETE "ANTIQUE WHITE" #23 (3/16") (WALL ACCENT TILE)
248	PAINT	BENJAMIN MOORE	#AC-6 "SPRINGFIELD TAN" • RESTROOM (SEMI-GLOSS) • EXTERIOR (EGGSHELL)
250	VINYL COVE BASE	JOHNSONITE	#86992-58 "HARDROCK MAPLE", NO DRIP EDGE.
251	VINYL BUMPER RAIL	MCCUE	#OC-148 "DECORATORS WHITE" • HALL/OFFICES & COLUMNS (SEMI-GLOSS) • SALES FLOOR (EGGSHELL)
252	PAINT	BENJAMIN MOORE	#80 "FAWN", 6"
253	PAINT	BENJAMIN MOORE	#609 "DARK PUTTY", 2" IN DIAMETER
254	DOUBLE SLOTTED SLATWALL	DGS RETAIL	ALEXANDRIA BEIGE #4C-77 • DOORS (HIGH-GLOSS) • SALES FLOOR (EGGSHELL)
255	WALL PANELS	DGS RETAIL	#OC-50 "NOVEMBER RAIN" (SEMI-GLOSS)
256	NOT USED		#797K-12 "WHITE BARN" WITH TYPICAL 4" SLATS
257	PAINT	BENJAMIN MOORE	#797K-12 "WHITE BARN" SOLID PANEL
258	NOT USED		#2143-60 "MOONLIGHT WHITE" (EGGSHELL)
259	NOT USED		
260	PAINT	BENJAMIN MOORE	#977 "BRANDON BEIGE" (EGGSHELL)
261	VINYL STRIPWOOD	PARTERRE	VERTU "SUNLIGHT WALNUT" #11634 (SALES FLOOR AISLE) 6" X 38" X 1/8" THICK, 40 MIL. WEAR LAYER
262	VINYL STRIPWOOD	PARTERRE	VERTU "HARVEST OAK" #11610 (SALES FLOOR PAD) 6" X 38" X 1/8" THICK, 40 MIL. WEAR LAYER
263	CERAMIC TILE	ASI FLOORING	INTERWOVEN ECO-PANELS MAPLE PREFINISHED ELECTRIC OUTLET FRAME 2 3/4" X 4 1/2" X 12 MM
264	OUTLET FRAME	ARCHITECTURAL SYSTEMS	INTERWOVEN ECO-PANELS MAPLE PREFINISHED CONTOUR MOLDING 1 1/4" X 90" X 14 MM
265	CONTOUR MOLDING	ARCHITECTURAL SYSTEMS	INTERWOVEN ECO-PANELS MAPLE PREFINISHED WALL PANEL 13.5" X 53.5" X 9 MM NOMINAL 30 SF/BOX
266	WOOD ACCENT WALL PANELS	ARCHITECTURAL SYSTEMS	WHITE (WALL MOUNTED CROWN MOLDING)
267	SINTRA	DGS RETAIL INC.	SOURCE ONE EXCLUSIVE #2VCA-03 "CATALPA" BEACH
268	WALL COVERING	DL COUCH	NEVAMAR, CLASSIC ROCK #R2001T, NO DRIP EDGE.
269	LAMINATE	NEVAMAR	POSTFORM SURFACE, NEVAMAR, CLASSIC ROCK #R2001T NO DRIP EDGE. R2 LAVATOIRES SHALL BE MOUNTED SELF RIMMING VITREOUS CHINA WITH 8" CENTER SET SUPPLY WITH AERATOR AND A FLAT PERFORATED STRAINER LAVATORY WASTE DRAIN.
270	PLASTIC LAMINATE	NEVAMAR	BONE WHITE #UC10980 STANDARD PERMAFLUOR COLOR (INTERIOR & EXTERIOR)
271	STOREFRONT SYSTEM	KAWNEER	FROSTED SPARKLE VINYL FILM, AVERY A582-S, TOP OF VINYL TO BE AT 48" AFF. TWO (2) LAYERS TO BE APPLIED ON INTERIOR SIDE OF FRONT LINE WINDOWS.
272	FROSTED VINYL	DGS RETAIL INC.	"BRITTE RED"
273	METAL AWNING	ATAS	#2086-10 "EXOTIC RED" (EGGSHELL)
274	PAINT	BENJAMIN MOORE	#OC-65 "CHANTILLY LACE" (EGGSHELL)
303	PAINT	BENJAMIN MOORE	

NOTE: ALL DOORS AND FRAMES NOT SHOWN ON THE ELEVATION SHEET (A4) TO BE PAINTED SAME COLOR AS SALES FLOOR DOORS AND FRAMES.

SPECIFICATIONS FOR V.W.C. INSTALLATION

NEW CONSTRUCTION: THE G.C. SHALL SEE THAT SURFACES PRESENT A TRUE SMOOTH LEVEL FINISH FREE FROM CRACKS, DIRT, DUST, IRREGULARITIES, ROUGH SPOTS AND INDENTATIONS. A GOOD QUALITY NAMED BRAND WHITE OIL BASED PRIMER SHALL BE USED ON ALL NEW DRYWALL TO EASE APPLICATION AND FUTURE REMOVAL.

RENOVATIONS: OLD WALLCOVERING SHALL BE REMOVED AND WALLS ARE TO BE WASHED AND SANDED TO REMOVE ANY OLD ADHESIVE. IF NECESSARY THEY SHALL BE RE-PRIMED WITH AN OIL BASED WHITE PRIMER.

ADHESIVE: GUARD FC-100 OR ANY OTHER GOOD QUALITY HEAVY DUTY ADHESIVE IS RECOMMENDED.

DO NOT "RAILROAD" VINYL WALL COVERING.

ALL WORK SHALL BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER.

HomeGoods
Tenant Improvements
Summit Orchards Lot 4B
492 NW Chipman Rd
Lee's Summit, MO 64086

Revisions:		
01	Add-01 City Comments	11-18-19
02	Add-02 Tenant Comments	12-18-19

Project #: 180902-02

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November 8, 2019



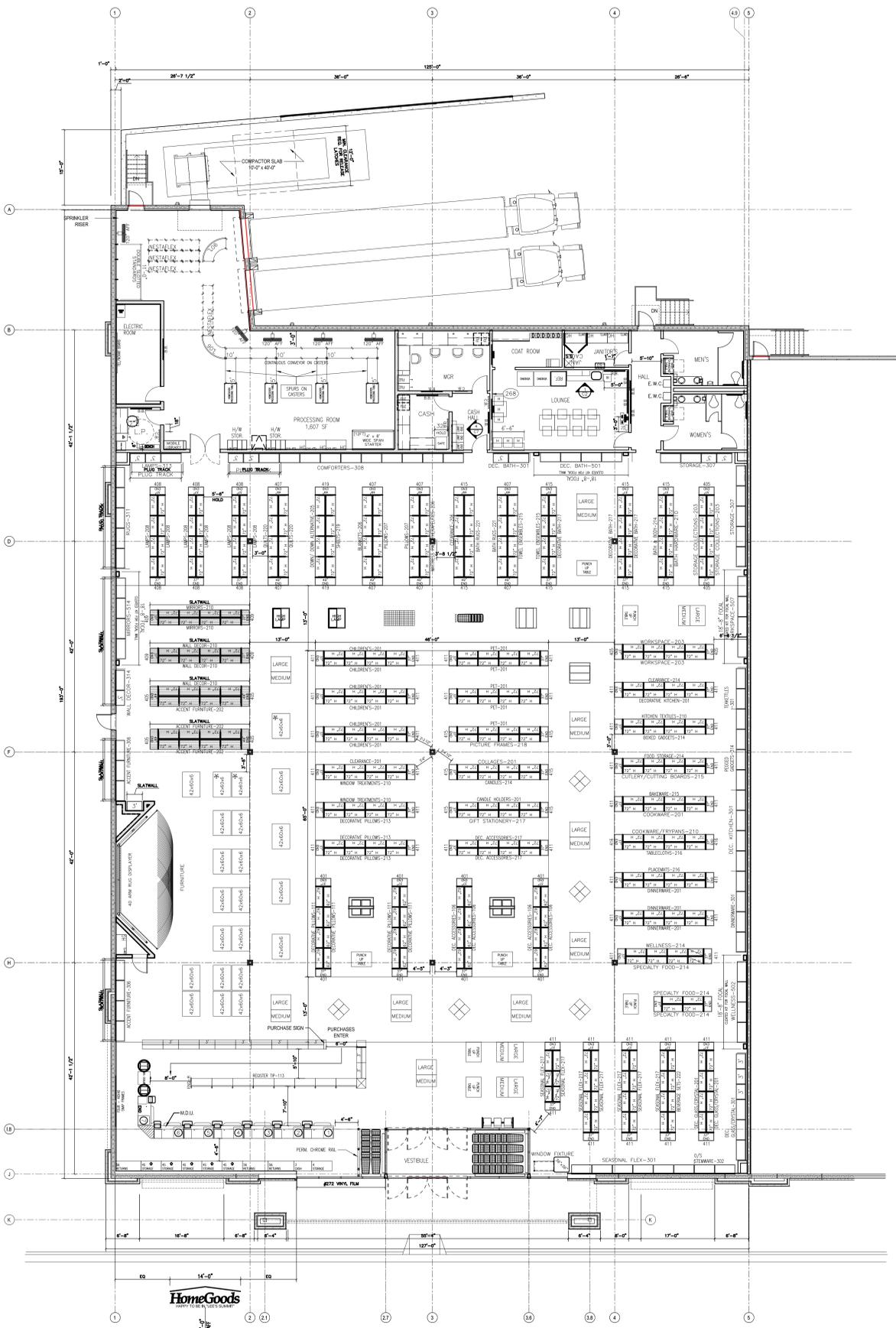
HomeGoods
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Revisions:
02 Add-02 Tenant Comments 12-18-19

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Fixture Plan
A8



AREA ANALYSIS	
GROUND COVER	22,126 SF
SALES AREA	81% 17,875 SF
STOCKROOM	1,607 SF
MEZZ. (IF APPLICABLE)	0 SF
TOTAL CONSTRUCTION AREA	22,126 SF

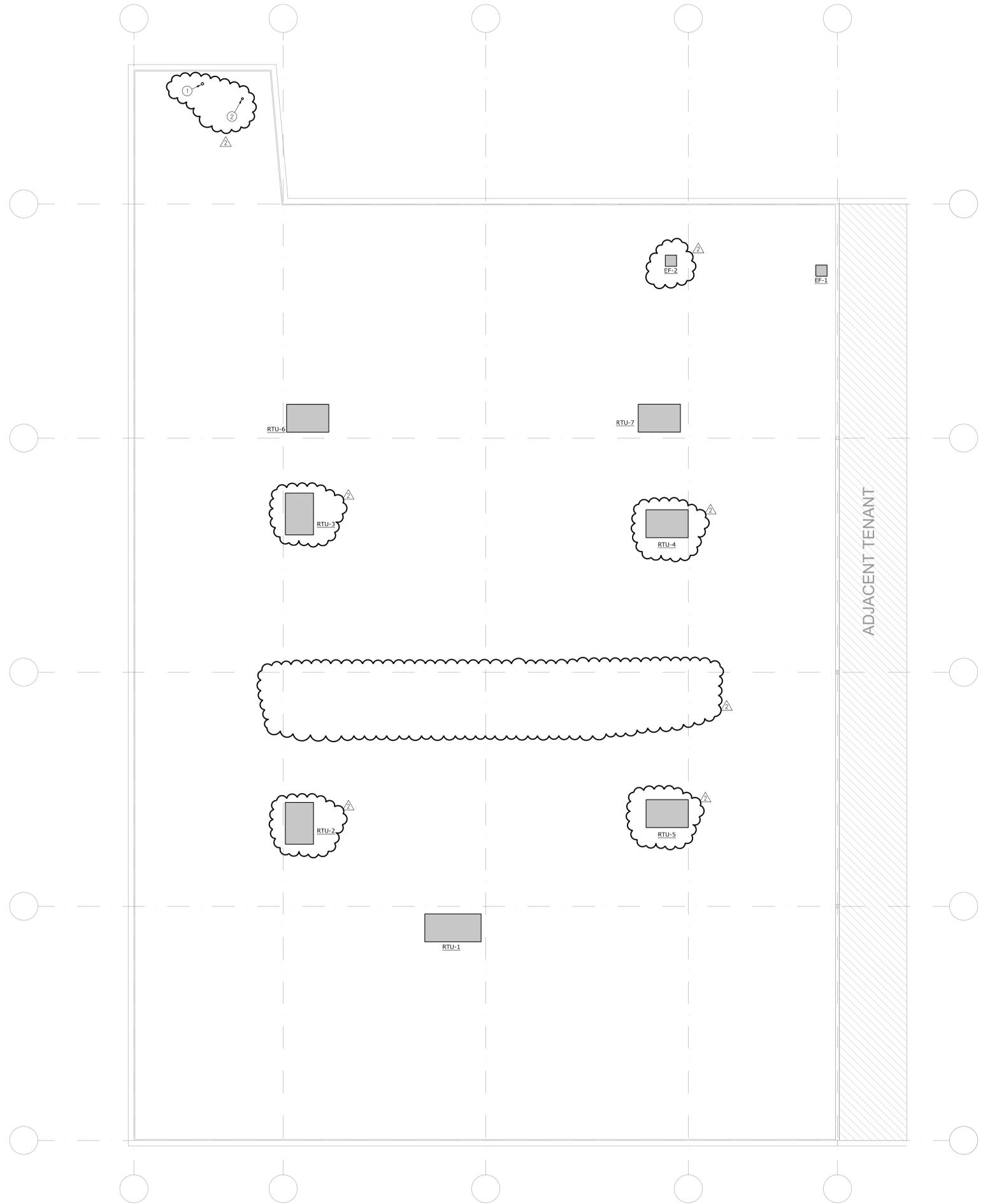
NOTE: REFER TO DOOR AND HARDWARE SCHEDULE ON DRAWING A2 FOR ALL ADA EXIT SIGN TYPES AND LOCATIONS.

1 FIXTURE PLAN
A8 3/32" = 1'-0" FOR REFERENCE ONLY



- GENERAL NOTES:**
1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
 2. CAREFULLY COORDINATE ROUTING OF SERVICES WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES.
 3. COORDINATE INSTALLATION AND PENETRATIONS OF ALL NEW SERVICES WITH STRUCTURAL PRIOR TO CUTTING.
 4. EXTEND ALL CONDENSATE DRAINS TO NEAREST ROOF DRAIN.
 5. PAINT ALL PVC PIPING ON ROOF TO PROVIDE FOR UV PROTECTION. PAINT NATURAL GAS PIPING ON ROOF FOR PROTECTION FROM WEATHER. PAINT COLOR PER ARCHITECT DIRECTION.
 6. ALL SERVICES SHOWN HALF TONE ARE EXISTING.

- MECHANICAL NOTES:**
- 1 5" COMBUSTION AIR THRU ROOF. FURNISH & INSTALL W/ CAP & BIRD SCREEN.
 - 2 5" FLUE THROUGH ROOF. FURNISH AND INSTALL WITH FLUE CAP & BIRD SCREEN.



ROOF PLAN - MECHANICAL
SCALE: 1/8" = 1' - 0"

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 LOCATION: Summit Orchards, Shesha, Lee, Summit, MO
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 PLOTTED BY: DATE • TIME: Prasanna Patro, Wednesday, December 18, 2019 3:48:42 PM
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HomeGoods
 Tenant Improvements
 Summit Orchards Lot 4B
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 Lee's Summit, MO 64086

Revisions:	
△ Add-01 City Comments	11/18/19
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Project #: 180902-02

Construction / Permit Set
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ROOF PLAN - MECHANICAL



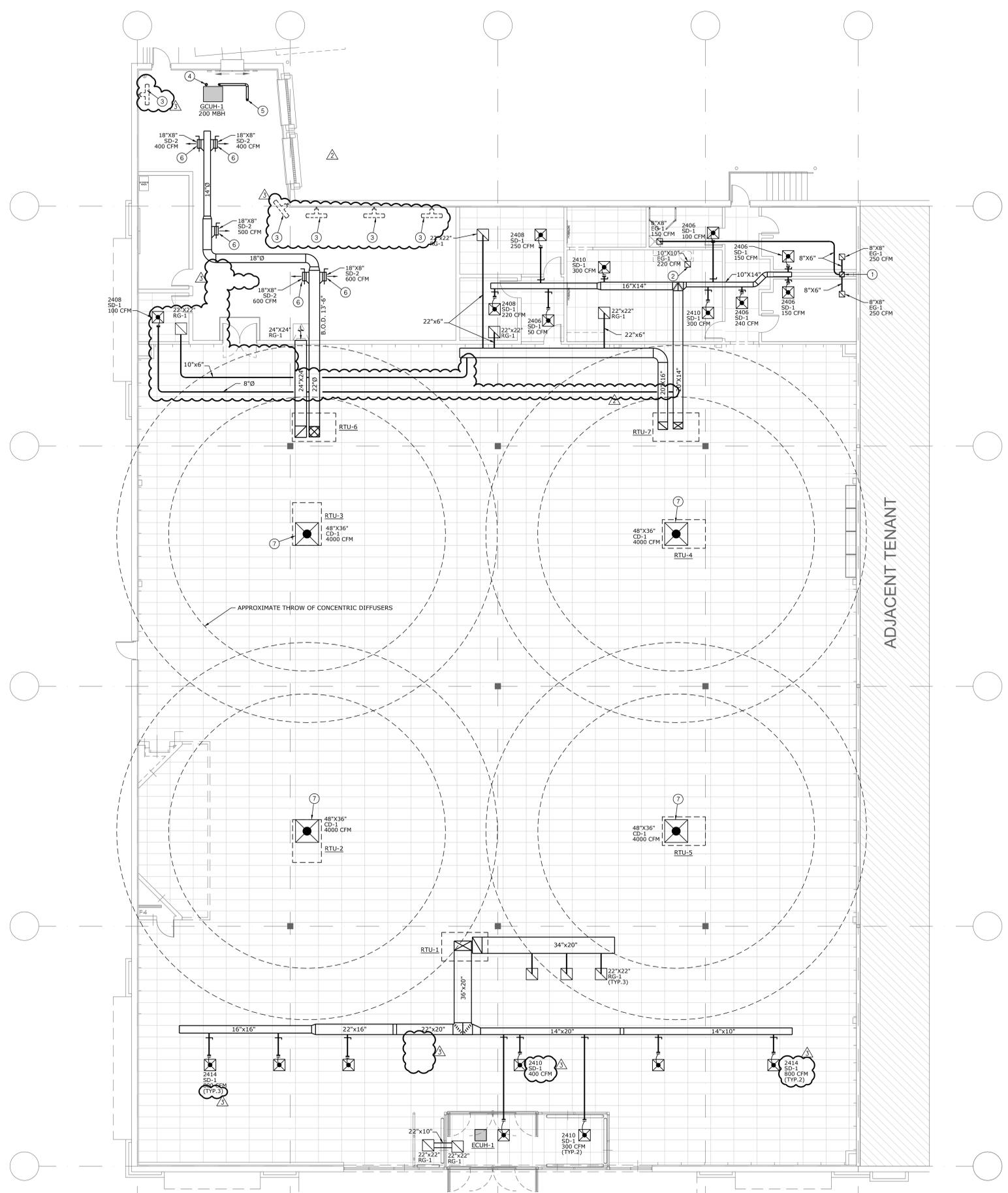


GENERAL NOTES:

- INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
- ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
- COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL PRIOR TO CUTTING FLOORS OR BEARING WALLS.
- WALL MOUNTED DEVICES SUCH AS THERMOSTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND PRESSURE SENSORS ARE SHOWN ON PLANS FOR CLARITY AND GENERAL REFERENCE OF LOCATIONS. LOCATIONS SHOW ARE NOT TO BE CONSIDERED THE EXACT MOUNTING LOCATION. COORDINATE THE INSTALLATION OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND OTHER TRADES WALL MOUNTED DEVICES. GROUP THE INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH MILL WORK, TELEVISIONS, FURNITURE, TEACHING BOARDS, AND OTHER SIMILAR OBSTRUCTIONS.
- PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
- FURNISH ALL EXPOSED DUCTWORK IN FINISHED SPACES WITH PAINTABLE FINISH.
- DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.
- ALL SERVICES SHOWN WITH HALF TONE LINE WEIGHT ARE EXISTING.
- REFER TO NOVAR DRAWINGS FOR SENSOR LOCATIONS.

PLAN NOTES:

- 10"x10" EXHAUST DUCT UP TO ROOF EXHAUST FAN, EF-1.
- 10"x10" EXHAUST DUCT UP TO ROOF EXHAUST FAN, EF-2.
- FURNISH AND INSTALL TPI MODEL CACU 24-W CIRCULATOR FAN. REFER TO DETAIL ON E2 FOR MORE INFORMATION.
- 5" DUCT UP THROUGH ROOF W/CAP & BIRD SCREEN FOR COMBUSTION AIR.
- 4" EXHAUST FLUE UP THROUGH ROOF.
- MOUNTING ANGLE OF DIFFUSER TO BE 15° BELOW HORIZONTAL. REFER TO DETAILS ON M5.
- CONNECT CONCENTRIC DIFFUSER TO RTU ON ROOF PER MANUFACTURER'S RECOMMENDATIONS.



FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

Revisions:	
▲ Add-01 City Comments	11/18/19
▲ Add-02 Tenant Comments	12/18/19
▲ Add-03 Tenant Comments	01/10/20

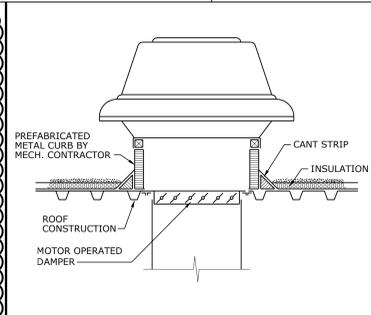
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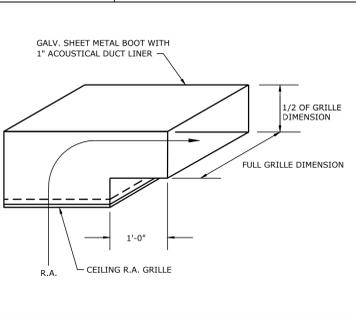
MECHANICAL PLAN

PROJECT NAME: Summit Orchards Lot 4B - Lee's Summit, MO
LOCATION: Summit Orchards Lot 4B, Lee's Summit, MO
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PLOTTED BY: DATE: TIME:
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Charles Boody, Thursday, January 9, 2020 3:15:52 PM

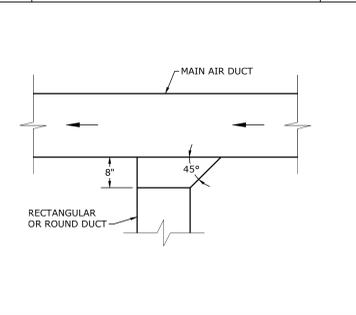
HomeGoods
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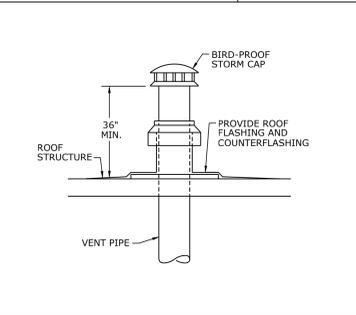
POWER ROOF VENTILATOR
NOT TO SCALE



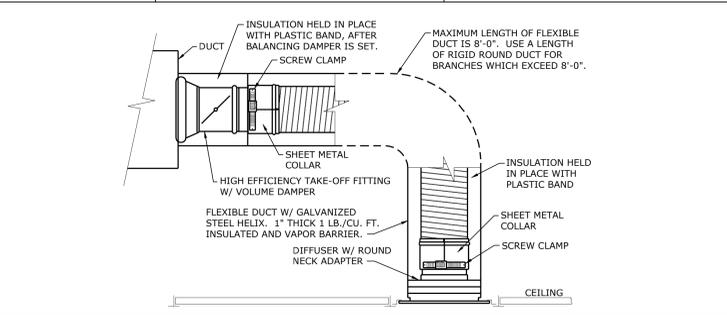
RETURN AIR BOOT DETAIL
NOT TO SCALE



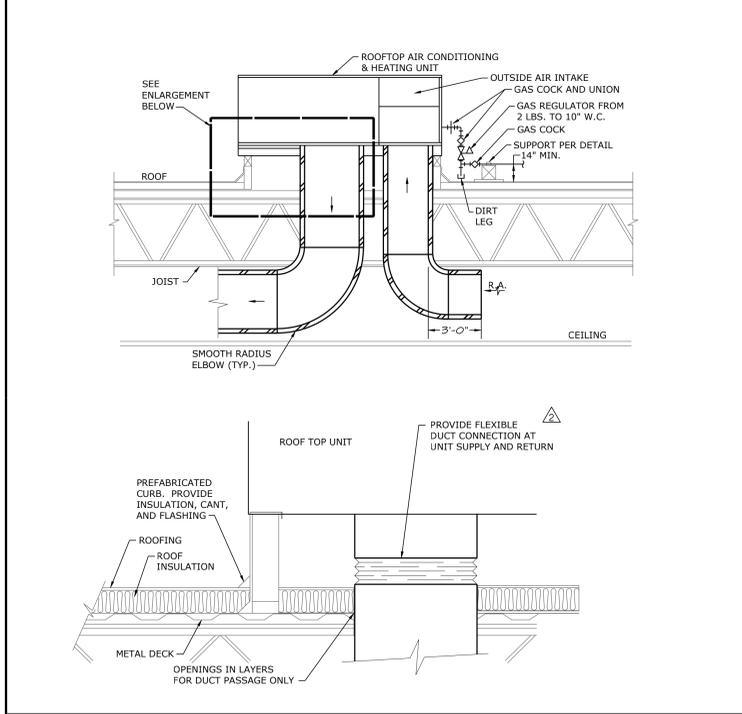
TYPICAL BRANCH DUCT TAKEOFF
NOT TO SCALE



GAS VENT STACK DETAIL
NOT TO SCALE



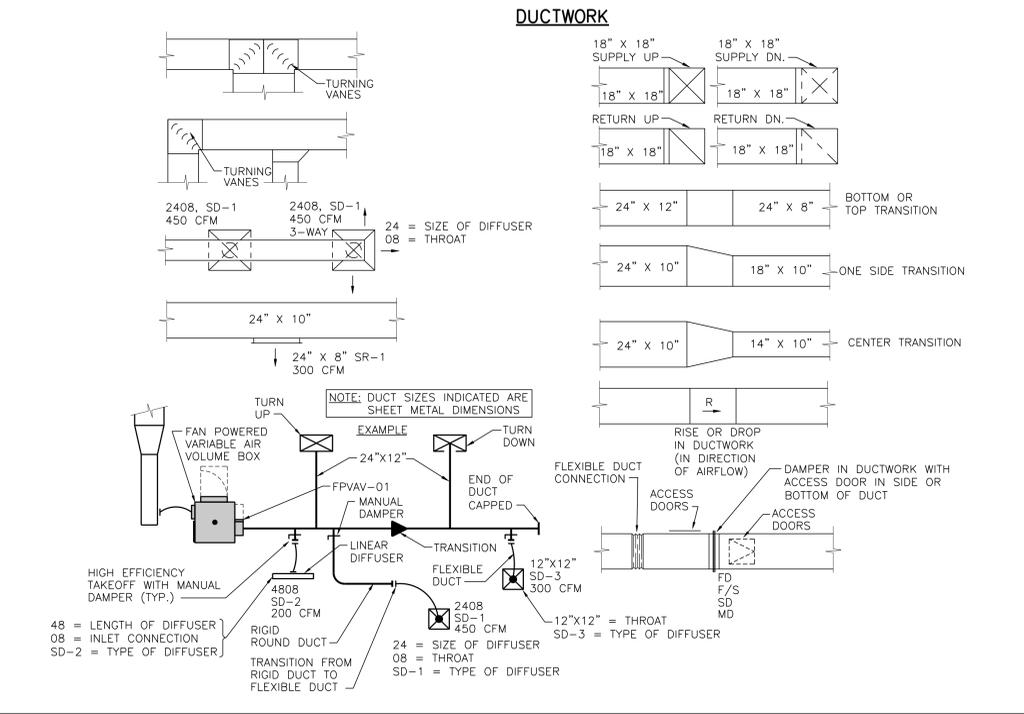
FLEXIBLE BRANCH DUCT DETAIL
NOT TO SCALE



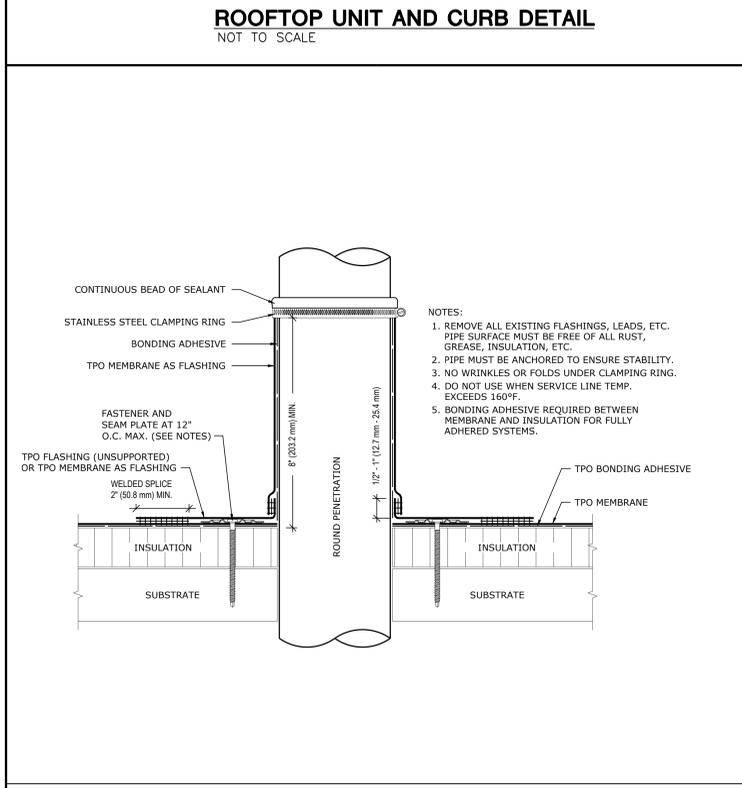
ROOFTOP UNIT AND CURB DETAIL
NOT TO SCALE

HVAC

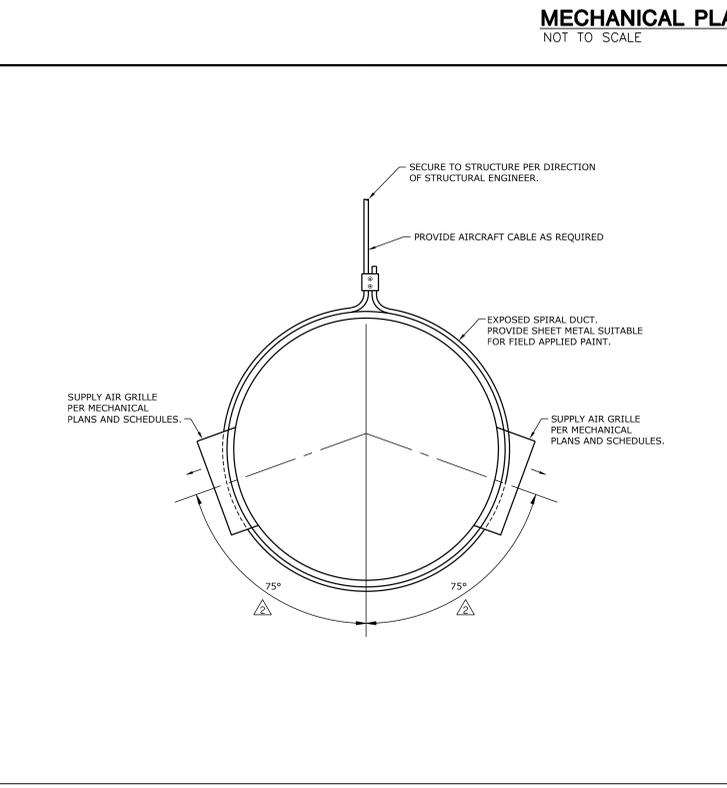
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- CHWS — CHILLED/HOT WATER SUPPLY
- CHWR — CHILLED/HOT WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- HWR — HEATING HOT WATER RETURN
- CTS — COOLING TOWER SUPPLY
- CTR — COOLING TOWER RETURN
- STM — LOW PRESSURE STEAM
- RTN — LOW PRESSURE CONDENSATE RETURN
- STM-50 — HIGH PRESSURE STEAM - NO'S GIVE GAUGE PRESSURE IN P.S.I.
- RTN-50 — HIGH PRESSURE RETURN - NO'S GIVE GAUGE PRESSURE IN P.S.I.
- RD — REFRIGERANT DISCHARGE
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- A — COMPRESSED AIR
- D — DRAIN (CONDENSATE)
- H①S — THERMOSTAT - ('S' DENOTES SENSOR)
- H②S — HUMIDISTAT - ('S' DENOTES SENSOR)
- H③ — THERMOSTAT/HUMIDITY SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- THC — THERMOSTAT/HUMIDITY SENSOR/CO2 SENSOR
- H — HUMIDIFIER
- SFI — SUPPLY AIR FLOW INDICATOR
- REAI — RETURN AND EXHAUST AIR FLOW INDICATOR
- SD — SUPPLY DIFFUSER
- SDI — SUPPLY STRIP DIFFUSER
- RGR — RETURN GRILLE OR EXHAUST REGISTER



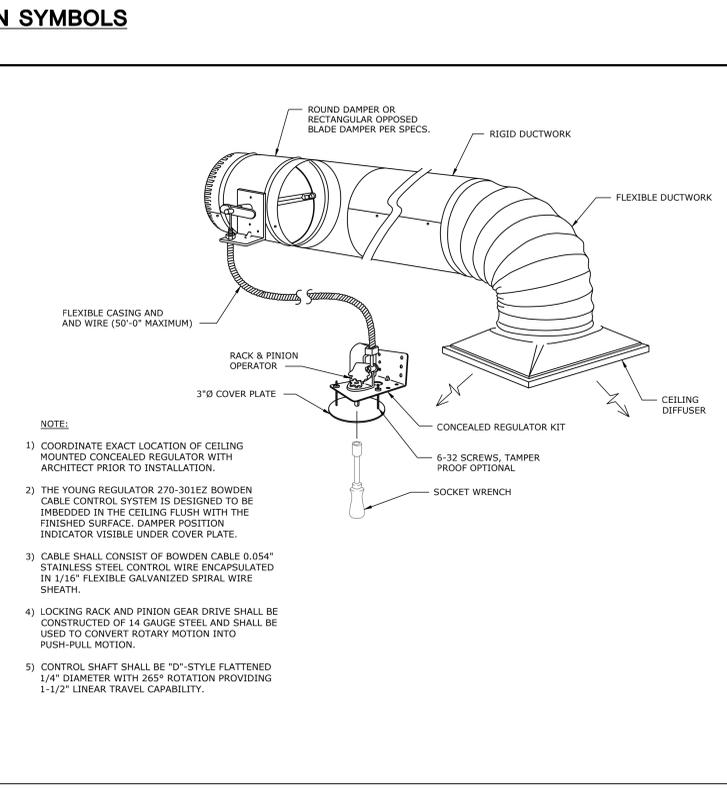
MECHANICAL PLAN SYMBOLS
NOT TO SCALE



ROOF PENETRATION DETAIL
NOT TO SCALE



EXPOSED ROUND DUCT WITH ANGLED DIFFUSERS
NOT TO SCALE



DETAIL OF ADJUSTABLE DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS OR WALLS
NO SCALE

PROJECT NAME: Smith & Boucher, Inc. - Lee's Summit, MO
 PROJECT LOCATION: Summit Orchards Lot 4B
 LAST CORRECTION: 11/23/2019 11:23:00 AM
 DRAWN BY: H. Halson
 CHECKED BY: C. Halson
 PLOTTED BY: J. Halson
 DATE: 11/23/2019 11:23:00 AM
 TIME: 3:16:09 PM

HomeGoods
 Tenant Improvements
 Summit Orchards Lot 4B
 492 NW Chipman Rd
 Lee's Summit, MO 64086

Revisions:

Add-01 City Comments	11/18/19
Add-02 Tenant Comments	12/18/19
Add-03 Tenant Comments	01/10/20

Project #: 180902-02

Construction / Permit Set
November 8, 2019

SYMBOLS AND DETAILS - MECHANICAL

MECHANICAL REQUIREMENTS

PROVIDE EQUIPMENT INDICATED ON THE DRAWINGS, AND AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM.

DEFINITIONS: FURNISH MEANS TO SUPPLY AND DELIVER TO PROJECT SITE, READY FOR INSTALLATION. INSTALL MEANS TO PLACE IN POSITION AND MAKE CONNECTIONS FOR SERVICE OR USE. PROVIDE MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELIST WARRANTY SERVICE, AT THE OWNER'S OPTION.

COORDINATION: COORDINATE WITH THE WORK OF OTHER TRADES. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

SHEETMETAL DUCTWORK: PROVIDE SHEETMETAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS. SEAL CLASS "A". SHEETMETAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, WITH G90 ZINC COATING. SHEET STEEL SHALL COMPLY WITH ASTM A STANDARD SPECIFICATION FOR STEEL SHEETMETAL, ZINC COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANNEALED) BY THE HOT DIP PROCESS, AND AS24 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR SHEET, METALLIC-COATED BY THE HOT DIP PROCESS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL 90° ELBOWS.

ROUND SHEETMETAL DUCT: PROVIDE SPIRAL SEAM (ALL SIZES) OR SNAP LOCK (DUCT SIZES UP TO 10" ABOVE CEILING) GALVANIZED STEEL, COMPLYING WITH SMACNA STANDARDS. SPIRAL SEAM DUCTWORK SHALL HAVE SMACNA SEAM TYPE RL-1.

FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET NFPA 96A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR MINIMUM 2" W.G. PRESSURE AND 0 TO 250°F TEMPERATURE. PROVIDE SCREW-OPERATED METAL ADJUSTABLE CLAMPING DEVICES, USE TWIST-LOCK TAP COLLARS AT CONNECTIONS INTO SHEETMETAL DUCTWORK. MAXIMUM EXTENDED LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 4 FEET.

EXPOSED DUCTWORK: EXPOSED DUCTWORK SHALL BE CLEANED OF DEBRIS AND OIL, THEN WIRED DOWN WITH VINEGAR OR OTHER SURFACE PREPARING CHEMICAL TO PREPARE DUCT FOR PAINT.

DUCT SEALANT: PROVIDE POLYMERIC RUBBER TYPE SEALANT FOR USE ON BOTH INTERIOR LOCATED DUCTWORK AND DUCTWORK EXPOSED TO OUTDOOR CONDITIONS. SEALER SHALL HAVE HIGH BONDING STRENGTH FOR SURE, FIRST TIME SEALING OF JOINTS IN LOW, MEDIUM, AND HIGH PRESSURE DUCT SYSTEMS. SEALER SHALL BE HIGH IN SOLID CONTENT, PROVIDE A TWO PART TAPE SEALING SYSTEM, CONSISTING OF WOVEN FIBER TAPE IMPREGNATED WITH A GYPSUM MINERAL COMPOUND, AND A MODIFIED ACRYLIC/SILOXANE RETARDER THAT REACTS EXOTHERMICALLY WITH THE TAPE. TWO PART TAPE SEALING SYSTEM MUST BE RATED FOR BOTH INDOOR AND OUTDOOR APPLICATION. TAPE SHALL NOT CONTAIN ASBESTOS.

DUCT INSULATION (ALL ROUND SUPPLY DUCT AND ROUND RETURN DUCT ABOVE CEILING): PROVIDE MINIMUM 1-1/2" THICK BLANKET TYPE FIBERGLASS INSULATION COMPLYING WITH ASTM C-553, TYPE II, WITH FACTORY APPLIED KRAFT BOARD TO ALUMINUM FOIL, REINFORCED WITH FIBERGLASS VAPOR BARRIER/JACKET, JACKET SHALL CONFORM TO ASTM C-1136, TYPE II, INSTALLED R VALUE SHALL BE 4.2 OR HIGHER WITH A 0.75 PCF DENSITY.

DUCT LINER (ALL RECTANGULAR SUPPLY AND RETURN DUCT): PROVIDE MINIMUM 1" THICK, 3 PCF DENSITY, NEOPRENE COATED, LONG TEXTILE FIBER TYPE DUCT LINER, WITH AIR STREAM SIDE OF DUCT LINE, CONFORMING TO NFPA 96A. DUCT LINER ADHESIVE SHALL BE AS RECOMMENDED BY DUCT LINER MANUFACTURER, AND SHALL COMPLY WITH ASTM C-916. DUCT LINER FASTENERS SHALL COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", LATEST EDITION. THERMAL CONDUCTIVITY SHALL BE EQUAL TO OR LESS THAN 0.26 AT 75°F.

ROUND VOLUME DAMPERS: PROVIDE MINIMUM 20 GAUGE GALVANIZED STEEL FRAME AND BLADES, MINIMUM 3/8" SQUARE STEEL AXLE, MOLDED SYNTHETIC BEARINGS, WITH LOCKING POSITION REGULATOR. REGULATOR SHALL BE POSITIONED WITH SHEETMETAL BRACKET BEYOND DUCT COVERING, WHERE POSITIONING REGULATOR IS NOT ACCESSIBLE, PROVIDE COUPLING AND EXTENSION ROD WITH REGULATOR FOR CEILING OR WALL INSTALLATION, AS REQUIRED.

RECTANGULAR VOLUME DAMPERS: PROVIDE MINIMUM 16 GAUGE GALVANIZED STEEL CHANNEL FRAME, 18 GAUGE GALVANIZED STEEL BLADES, MINIMUM 3/4" HEXAGONAL AXLE, MOLDED SYNTHETIC BEARINGS, WITH 3/8" SQUARE FLANGED STEEL CONTROL SHAFT. LINKAGES SHALL BE CONCEALED IN THE FRAME. OPERATING SHAFT SHALL EXTEND BEYOND FRAME AND DUCT TO A LOCKING QUADRANT WITH ADJUSTABLE LEVER. MAXIMUM BLADE WIDTH SHALL NOT EXCEED 4".

DUCT TURNING VANES: PROVIDE FABRICATED TURNING VANES AND VANE RUNNERS, CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". PROVIDE TURNING VANES CONSTRUCTED OF CURVED BLADES, SUPPORTED WITH BARS PERPENDICULAR TO BLADES, AND SET INTO SIDE STRIPS SUITABLE FOR MOUNTING IN DUCTWORK. FOLLOW SMACNA GUIDELINES FOR SPACING, SUPPORT, AND CONSTRUCTION. ALL BLADES SHALL BE DOUBLE THICKNESS AIRFOIL TYPE.

FLEXIBLE DUCT CONNECTORS: PROVIDE U.L. LABELED 30 OUNCE NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS AT DUCT CONNECTIONS TO ALL VIBRATING EQUIPMENT.

DUCT ACCESS DOORS: PROVIDE HINGED ACCESS DOORS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. CONSTRUCT OF SAME OR THICKER GAUGE SHEETMETAL AS DUCT IN WHICH IT IS INSTALLED. PROVIDE FLUSH FRAMES FOR UNINSULATED DUCTS, AND EXTENDED FRAMES FOR EXTERNALLY INSULATED DUCTS. PROVIDE CONTINUOUS HINGE ON ONE SIDE, WITH ONE HANDLE-TYPE LATCH FOR ACCESS DOORS, 12" HIGH AND SMALLER, AND TWO HANDLE-TYPE LATCHES FOR LARGER ACCESS DOORS.

TESTING AND BALANCING: TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH THE MOST CURRENT NEBB OR ABC, AND ASHRAE STANDARDS. ELIMINATE OBJECTIONABLE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF CONTROL SYSTEMS. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, WITH NEBB OR ABC CERTIFICATION. SUBMIT COMPLETED AND CERTIFIED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCE ALL SYSTEMS TO WITHIN 3% OF AIR FLOWS INDICATED ON THE DRAWINGS, AND REPORT ALL DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

GENERAL NOTES

- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS, INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT SIZES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND SIZES OF ALL UTILITIES, INCLUDING THE DEPTHS OF ALL BELOW GRADE SANITARY SEWERS, PRIOR TO START OF WORK. THIS DRAWING IS NOT INTENDED TO INDICATE ALL EXISTING UTILITIES.
- CONTRACTOR SHALL BE FAMILIAR WITH LANDLORD'S STANDARDS, RULES AND REGULATIONS. ALL LANDLORD'S CRITERIA SHALL BE COMPLIED WITH AND INCLUDED IN THIS BID.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY CONNECTION POINTS, INCLUDING SIZES AND INVERTS WITH EXISTING FIELD CONDITION PRIOR TO START OF WORK.
- MAKE ALL UTILITY CONNECTION AND INSTALLATION IN FULL ACCORDANCE WITH ALL UTILITY REGULATIONS. PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED BY UTILITY COMPANY. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRIAL STANDARDS OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.
- MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES FOR ALL FIXTURES AND EQUIPMENT.
- ALL HORIZONTAL FIRE PROTECTION SPRINKLER PIPING AND ALL ABOVE GRADE EXPOSED SHALL BE INSTALLED AS HIGH AS POSSIBLE. SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER SYSTEM WITH DUCTWORK AND LIGHTS. ALL COSTS ASSOCIATED WITH RAISING SPRINKLER PIPING WHERE THE ARCHITECTURAL DESIGN CAN NOT BE ACCOMPLISHED SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR.
- CONTRACTOR SHALL COORDINATE TIMES TO WORK IN SPECIFIC AREAS OF THE EXISTING BUILDING WITH THE BUILDING MANAGER.
- SLEEVE AND SEAL ALL PIPE PENETRATIONS OF WALLS AND FLOORS. APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATIONS OF FIRE-RATED WALLS AND FLOORS, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUDED INTO PLACE AND WATER PROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT WITH SILICONE CAULK.
- ROOF TOP EQUIPMENT SHALL BE TAGGED WITH 2-1/2" HIGH PERMANENT LETTERS TO IDENTIFY SPACE SERVED.
- EXHAUST FANS / DUCTS AND ROOF VENTS SHALL TERMINATE A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES.
- USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.
- CONTRACT LANDLORD APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ROOF CURB TO MAINTAIN ROOFING WARRANTY.
- CONTRACTOR TO DETERMINE IF ANY STRUCTURAL ELEMENTS SUCH AS REBAR OR POST-TENSION CABLE EXIST IN FLOORS, WALLS OR ROOFS BY INSPECTION COORDINATED WITH THE LANDLORD'S TENANT COORDINATOR OR STRUCTURAL ENGINEER AND BY USE OF X-RAY WHEN REQUIRED. PRIOR TO ANY CUTTING OR CORE DRILLING, IF SUCH ELEMENTS EXIST, REPORT THIS IMMEDIATELY TO THE ARCHITECT AND THE LANDLORD'S TENANT COORDINATOR FOR RESOLUTION PRIOR TO CUTTING OR DRILLING.
- VISIT SITE PRIOR TO BIDDING AND FIELD VERIFY EXISTING CONDITIONS. TAKE INTERFERENCES INTO CONSIDERATION.
- DUCTWORK SHALL BE INSTALLED TIGHT TO UNDERSIDE OF ROOF STRUCTURE AS HIGH AS POSSIBLE TO AVOID OBSTRUCTIONS.
- PAINT INTERIOR OF ALL DUCTS VISIBLE THROUGH DIFFUSERS/GRILLES FLAT BLACK.
- SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER SYSTEM WITH DUCTWORK AND LIGHTS.
- ALL ABANDONED HVAC EQUIPMENT SHALL BE REMOVED AND PROPERLY DISPOSED. CAP AND INSULATE ALL UNUSED ROOF OPENINGS.
- REPLACE ALL HVAC FILTERS JUST PRIOR TO STORE GRAND OPENING.

NOVAR SYSTEM NOTES

- NOVAR INTERFACE SUMMARY (REFER TO IJX SPECIFICATIONS FOR DETAIL INFORMATION.)
- GENERAL CONTRACTOR**
 - PROVIDE 4"x8" PLYWOOD BACKBOARD IN ELECTRIC ROOM FOR NOVAR TO MOUNT THEIR EQUIPMENT. PHONE AND ETHERNET JACKS FOR THE NOVAR CONTROLLER WILL ALSO BE LOCATED ON THIS BOARD BY SEPARATE IJX VENDOR.
 - MECHANICAL CONTRACTOR**
 - HORIZONTALLY FINISH 2x4 J-BOX WITH CONDUIT (WIREMOLD IF EXPOSED IN FINISHED AREAS) AT LOCATIONS DESIGNATED ON NOVAR CONTROLS SITE SPECIFIC PLANS. THE J-BOXES ARE STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND LOCATIONS WHERE J-BOXES SHALL BE MOUNTED 84" AFF. ON SALES FLOOR J-BOXES SHALL BE MOUNTED ON BACK SIDE OF COLUMNS WHEN VIEWED FROM FRONT OF STORE.
 - PROVIDE PERMANENT STRANDED 18/8 AWG NON SHIELDED CABLE (18/10 IF THE RTU IS EQUIPPED WITH A CO2 SENSOR) FROM EACH ROOFTOP UNIT TO THE NOVAR ETM (1-STAR) LOCATION SHOWN ON THE NOVAR PLAN THAT SUPERSEDES ANY MECHANICAL PLAN LOCATIONS. ALL CONTROL DEVICES SHALL BE APPROPRIATELY IDENTIFIED AND PERMANENTLY ATTACHED.
 - TEMPORARY THERMOSTATS SHALL BE INSTALLED AT THE ETM LOCATIONS AND THE ROOFTOP UNITS STARTED.
 - HVAC EQUIPMENT SHALL HAVE MANUFACTURER'S RECOMMENDED STARTUP PROCEDURE PERFORMED AND BE OPERATIONAL IN ALL MODES BEFORE ARRIVAL OF NOVAR CONTROLS REPRESENTATIVE FOR FINAL NOVAR INSTALLATION.
 - IN COLD WEATHER THE CONTRACTOR SHALL PROVIDE TEMPORARY THERMOSTAT TO OPERATE THE HEATERS IN RECEIVING.
 - BASEBOARD HEATERS SHALL BE FACTORY EQUIPPED WITH INTEGRAL THERMOSTATS AND INSTALLED IN ALL OFFICES, LOUNGE, RESTROOMS, AND SECURITY OFFICES WITH AT LEAST ONE EXTERIOR WALL WHEN LOCATED IN CLIMATE ZONES 4 AND 5. THE CIRCUITING FOR BASEBOARD HEATING SHALL BE THROUGH GE RELAY PANEL.
 - ELECTRIC VESTIBULE HEATERS SHALL BE FACTORY EQUIPPED WITH LOW VOLTAGE CONTROLS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: IDENTIFIED AND PERMANENTLY ATTACHED TRANSFORMER, AND TWO WIRE FIELD TERMINATION CONTROL POINT.
 - ELECTRICAL CONTRACTOR**
 - PROVIDE THREE PHASE CIRCUIT BREAKER (20 AMPS) FOR THE VERIS WATTS TRANSUCIDER. THIS BREAKER MAY BE INSTALLED IN A LIGHTING DISTRIBUTION PANEL IF THE PANEL IS OF THE SAME VOLTAGE AS THE MAIN DISTRIBUTION PANEL.
 - INSTALL NOVAR PROVIDED CURRENT TRANSFORMERS (CTS).
 - CONNECT ALL CT WIRING TO THE VERIS WATTS TRANSUCIDER.
 - MOUNT AND POWER THE VERIS WATTS TRANSUCIDER.
 - PROVIDE 60MSF (20 AMP, 1 POLE BREAKER AND 60MSF (20 AMP, 1 POLE BREAKER) POWER SUPPLY. THESE BREAKERS MUST ORIGINATE FROM THE SAME PHASE.
 - THE INSTALLATION PROGRAMMING, AND LABELING OF THE GE SOFTWARE PANEL IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR & GENERAL CONTRACTOR'S AGENTS.

YORK NATIONAL ACCOUNT

IJX GROUP OF COMPANIES HAS A NATIONAL ACCOUNT AGREEMENT WITH YORK. AIR CONDITIONING UNITS ARE OWNER FURNISHED. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND ACCEPTING THE EQUIPMENT, VERIFYING PROPER QUANTITIES, PROVIDING TEMPORARY STORAGE, LABOR, PROPER INSTALLATION, AND ONE YEAR LABOR WARRANTY.

FOR COMPLETE INFORMATION ON THE OWNER FURNISHED HVAC EQUIPMENT CONTACT YORK NATIONAL ACCOUNTS AT PHONE: (800)481-9738, FAX: (866) 406-9675.

FOR ALL OTHER INQUIRIES CONTACT DAN BILANCIA, NATIONAL ACCOUNT PRODUCT SPECIALIST AT (405)419-6537 FAX: (866)406-9675 OR EMAIL: dan.bilancia@yjc.com.

NOTE: ORDERING PROCEDURES

YORK NATIONAL ACCOUNTS DEPARTMENT WILL ORDER EQUIPMENT AND COORDINATE SHIPMENT WITH THE SUCCESSFUL HVAC CONTRACTOR. THE HVAC CONTRACTOR WILL BE RESPONSIBLE FOR DELIVERY COORDINATION, RECEIVING AND INSTALLATION AS DESCRIBED IN THE SPECIFICATIONS.

STANDARD LEADTIME FOR YORK RTU HVAC EQUIPMENT IS FOUR (4) WEEKS MANUFACTURING PLUS ONE (1) WEEK TRANSPORTATION DEPENDING ON THE LOCATION IN THE 48 STATES. ANY NON-STANDARD OPTION MAY ADD TO THE STANDARD MANUFACTURING LEADTIME AND WILL BE CONFIRMED AT PLACEMENT OF ORDER.

*HVAC EQUIPMENT WITH FACTORY TECHNICAT COATING OF CONDENSER COILS WILL HAVE AN ELEVEN WEEK LEADTIME.

NOTE: EQUIPMENT START-UP INSTRUCTION

YORK IS RESPONSIBLE FOR STARTUP AND COMMISSIONING OF THE ROOFTOP UNITS.

UNIT HEATER SCHEDULE - GAS

DESIGNATION	GCUH-1
HEATER TYPE	TUBULAR
LOCATION	PROCESSING
MOUNTING	WALL
MANUFACTURER	STERLING
MODEL	TF-200
UNIT DATA	
CFM	3200
VENT SIZE (IN)	5
HEATER INPUT (MBH)	200
HEATER OUTPUT (MBH)	166
VOLTAGE/PHASE	120/1
ELECTRICAL DATA	
PANEL & CIRCUIT	
WIRE & CONDUIT	
OVERCURRENT DEVICE	
DISCONNECT	
CONTROL	NOTE 1
REFERENCE DRAWING/DETAIL	M1
REMARKS	2

- NOTES:**
- PROVIDE CONTROL THROUGH NOVAR CONTROLLER TEMPERATURE SENSOR AND CONTROL RELAYS.

FAN SCHEDULE

DESIGNATION	EF-1	EF-2
SERVICE	RESTROOM	LOUNGE
MANUFACTURER	YORK	YORK
FAN TYPE	DOWNBLAST	DOWNBLAST
MODEL	EVD13Q	EVD10R
WEIGHT (LBS)	40	29
UNIT DATA		
CFM	650	220
STATIC PRESSURE	0.5	0.5
FAN RPM	1177	1217
BRAKE HORSEPOWER	314 W	0.038
MOTOR HORSEPOWER	114	1/12
DRIVE	DIRECT	DIRECT
SONES	4.7	3.9
ELECTRICAL CONTROL DATA		
VOLTAGE/PHASE	120/1	120/1
PANEL & CIRCUIT	AL-10	AL-12
WIRE & CONDUIT	(2)#12, #12G, 1/2" C.	(2)#12, #12G, 1/2" C.
OVERCURRENT DEVICE	15A-1P CB	15A-1P CB
DISCONNECT	30A-1P NF	30A-1P NF
CONTROL	NOTE 1	NOTE 1
DAMPER TYPE	PARALLEL BLADE	PARALLEL BLADE
REFERENCE DRAWING/DETAIL	M0	M0
REMARKS	2	2, 3

- NOTES:**
- COORDINATE WITH CONTROL CONTRACTOR FOR VOLTAGE REQUIRED.
 - PROVIDE WITH FAN SPEED CONTROLLER
 - FAN TO BE CONTROLLED BY WALL MOUNTED TOGGLE ON/OFF SWITCH IN LOUNGE AREA.

ROOFTOP UNIT SCHEDULE - GAS HEAT

DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7
MANUFACTURER	YORK	YORK	YORK	YORK	YORK	YORK	YORK
MODEL NO.	ZJ150N18R4D5HCA1R1	ZJ120N18R4D5HCA1R2	ZJ120N18R4D5HCA1R2	ZJ120N18R4D5HCA1R2	ZJ120N18R4D5HCA1R2	ZJ078N12R4B5HCA1R2	ZT061N08R4B5HCA1R1
CFM	5000	4000	4000	4000	4000	2600	1760
TOTAL COOLING CAPACITY (MBH)	170.8	108	108	108	108	80.4	52.4
SENSIBLE COOLING CAPACITY (MBH)	121.3	81.3	81.3	81.3	81.3	58.8	37.7
ENT. AIR (DBWB)	80/67	80/67	80/67	80/67	80/67	80/67	80/67
LVG. AIR (DBWB)	57.5/56.1	58.1/57.0	58.1/57.0	58.1/57.0	58.1/57.0	59.1/57.2	58.2/56.6
MINIMUM E.E.R.	12.0	12.0	12.0	12.0	12.0	11.8	14
HEATING INPUT (MBH)	180	180	180	180	180	120	80
HEATING OUTPUT (MBH)	144	144	144	144	144	96	65
VOLTAGE/PHASE	800	850	950	900	750	300	200
TOTAL S.P. (IN. W.C.)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAN BRAKE HP	5.10	2.95	2.95	2.95	2.95	1.97	1.12
FAN MOTOR HP	5.75	3.5	3.5	3.5	3.5	2.0	1.50
NO. OF COMPRESSORS	2	2	2	2	2	2	2
STAGES OF COOLING	2	2	2	2	2	2	2
SMOKE DETECTORS	YES, NOTE 3	YES, NOTE 3	YES, NOTE 3	YES, NOTE 3	YES, NOTE 3	YES, NOTE 3	YES, NOTE 3
RECEPTACLE	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4
POWERED RELIEF	NO	YES	YES	YES	YES	NO	NO
ECONOMIZER OPERATION	YES	YES	YES	YES	YES	YES	YES
FILTER							
TYPE	2" MERV 13	2" MERV 13	2" MERV 13	2" MERV 13	2" MERV 13	2" MERV 13	2" MERV 13
ELECT. CONT.							
MIN. SQ. FT. AREA	---	---	---	---	---	---	---
VOLTAGE/PHASE	480/3	480/3	480/3	480/3	480/3	480/3	480/3
MINIMUM CIRCUIT AMPACITY	41.3	29.2	29.2	29.2	29.2	18.5	14.6
MAXIMUM OVERCURRENT PROTECTION	50	35	35	35	35	20	20
PANEL & CIRCUIT	AH-19.21.23	AH-25.27.29	AH-31.33.35	AH-37.39.41	AH-20.22.24	AH-26.28.30	AH-32.34.36
WIRE & CONDUIT	(3)#6, #10G, 3/4" C.	(3)#10, #10G, 1/2" C.	(3)#12, #12G, 1/2" C.	(3)#12, #12G, 1/2" C.			
OVERCURRENT DEVICE	50A/3P CB	35A/3P CB	35A/3P CB	35A/3P CB	35A/3P CB	20A/3P CB	20A/3P CB
DISCONNECT	60A/3P NF	60A/3P NF	60A/3P NF	60A/3P NF	60A/3P NF	30A/3P NF	30A/3P NF
CONTROL SEQUENCE	RE. DRAWINGS	RE. DRAWINGS	RE. DRAWINGS	RE. DRAWINGS	RE. DRAWINGS	RE. DRAWINGS	RE. DRAWINGS
REFERENCE DRAWING/DETAIL	M0	M0	M0	M0	M0	M0	M0
REMARKS	NOTE 1, 2, 5.	NOTE 1, 2, 5.	NOTE 1, 2, 5.	NOTE 1, 2, 5.	NOTE 1, 2, 5.	NOTE 1, 2, 5.	NOTE 1, 2, 5.

- NOTES:**
- PROVIDE WITH SINGLE POINT POWER CONNECTION.
 - FURNISH WITH FACTOR INSTALLED ROOF CURB, ETHALPY ECONOMIZER CONTROLLER, BURGLAR BARS, AND HAIL GUARD KIT.
 - FURNISH WITH FACTOR INSTALLED SMOKE DETECTOR IN RETURN AIR DUCT SECTION. FIRE ALARM CONTRACTOR TO CONNECT TO FIRE ALARM CONTROL PANEL AS REQUIRED.
 - FACTORY PROVIDED GF / WP RECEPTACLE, UNPOWERED. CONTRACTOR TO FIELD WIRE PER PLANS.
 - PROVIDE UNIT WITH MOTORIZED ACTUATOR ON RELIEF AIR DAMPER FOR INTERCONNECTION TO HONEYWELL JADE ECONOMIZER CONTROL.

DUCTWORK SCHEDULE

SERVICE	DUCT MATERIAL	DUCT SHAPE	SMACNA REQUIREMENTS			OTHER REQUIREMENTS
			CLASSIFICATION	SEAL CLASS	LEAKAGE CLASS	
SUPPLY AIR DUCTS CONNECTED TO RTU	GALVANIZED STEEL	RECTANGULAR	2" WG POSITIVE	B	12	1", 3LB DENSITY LINER PAINTABLE WHERE EXPOSED
	GALVANIZED STEEL	ROUND/FLAT OVAL (EXPOSED)	4" WG POSITIVE SPIRAL SEAM/FLAT OVAL	B	3	PAINTABLE WHERE EXPOSED
RETURN AIR AND TRANSFER AIR DUCTWORK	GALVANIZED STEEL	RECTANGULAR	2" WG NEGATIVE	B	12	1", 3LB DENSITY LINER PAINTABLE WHERE EXPOSED
GENERAL EXHAUST DUCTS TO THE INLET OF THE FAN	GALVANIZED STEEL	RECTANGULAR OR ROUND	2" WG NEGATIVE	B - RECTANGULAR A - ROUND	12 - RECTANGULAR 3 - ROUND	PAINTABLE WHERE EXPOSED

- NOTES:**
- SEE DUCTWORK INSULATION SCHEDULE FOR REQUIREMENTS ON DUCT INSULATION

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	COLOR	REMARKS
SD-1	TUTTLE & BAILEY	S1200	SUPPLY	LAY-IN	NOTE 1, 2	STEEL	WHITE	
SD-2	TUTTLE & BAILEY	104	SUPPLY	SEAWALL	NOTE 3	STEEL	PAINTABLE	
CD-1	RUSKIN	01-S10-22	SUPPLY	CONCENTRIC	YES	ALUMINUM	WHITE	
RG-1	TUTTLE & BAILEY	CRE500	RETURN	LAY-IN/SURFACE	NO	STEEL	WHITE	
EG-1	TUTTLE & BAILEY	CRE500	EXHAUST	LAY-IN/SURFACE	YES	STEEL	WHITE	

- NOTES:**
- FURNISH WITH VOLUME DAMPER IN BRANCH DUCTWORK AT THE TAP LOCATION.
 - FURNISH WITH REMOTE DAMPER ACTUATOR FOR INACCESSIBLE CEILING APPLICATIONS.
 - FURNISH WITH OPPOSED BLADE DAMPER.



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project number 1923000



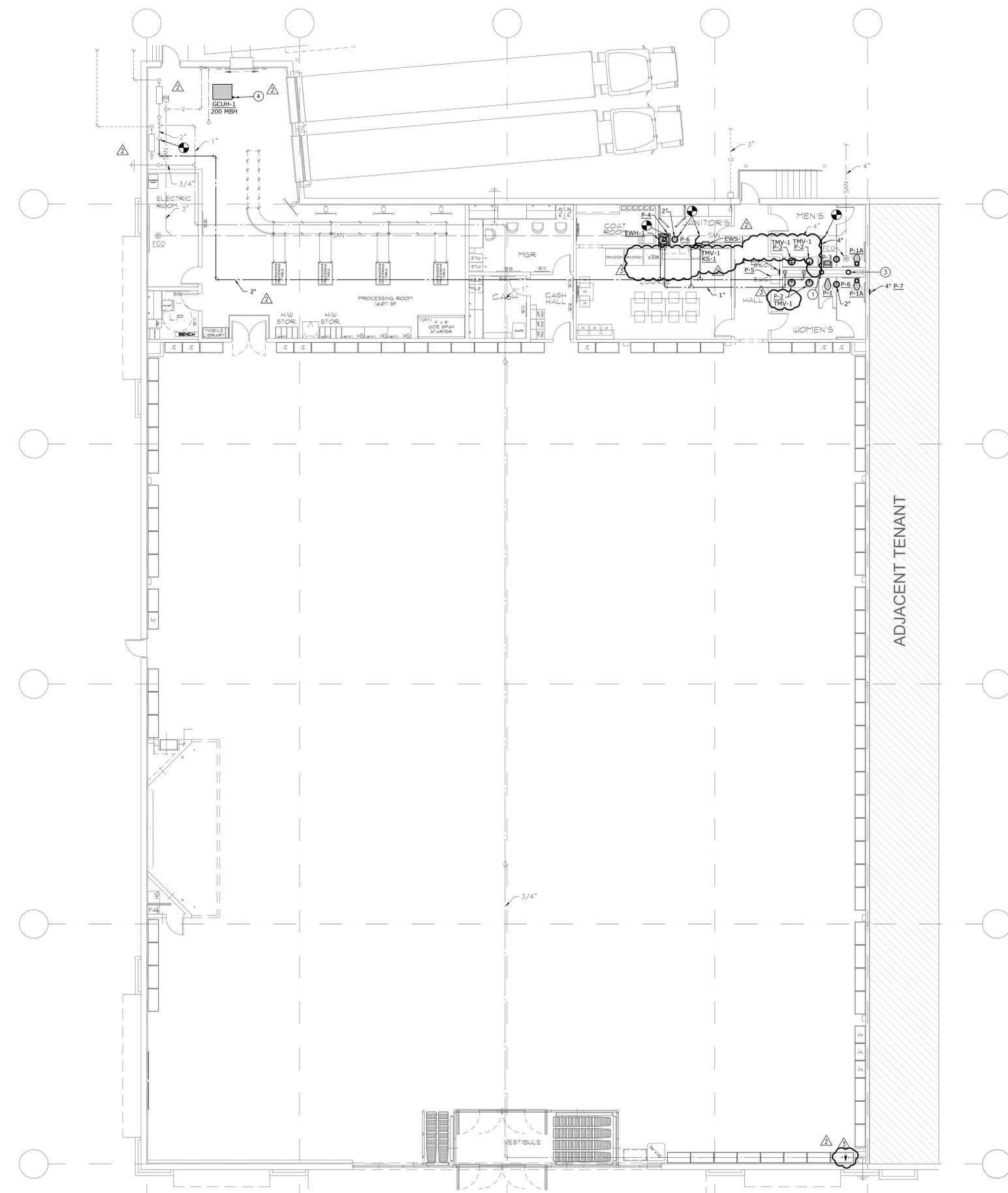
HomeGoods
Tenant Improvements
Summit Orchards Lot 4B
492 NW Chipman Rd
Lee's Summit, MO 64086

PROJECT NAME: Summit Orchards Lot 4B Core - Lee's Summit, MO
LOCATION: Summit Orchards Lot 4B Core - Lee's Summit, MO
LAST CORRECTION DATE: Thursday, January 9, 2020 1:43:23 PM
LAST CORRECTION BY: CHARLES BOBBY
PLOTTED BY: JIM TATE
DATE: Thursday, January 9, 2020 3:16:40 PM

- Revisions:**
- Add-01 City Comments 11/18/19
 - Add-02 Tenant Comments 12/18/19
 - Add-03 Tenant Comments 01/10/20

Project #: 180902-02

PROJECT NAME: Summit Orchards Lot 4B Core - Lee's Summit, MO
 LOCATION: Summit Orchards Lot 4B Core - Lee's Summit, MO
 LAST CORRECTION BY: CHARLES BOBY
 DATE: 11/18/19
 TIME: 1:35:16 PM
 PLOTTED BY: CHARLES BOBY
 DATE: 11/18/19
 TIME: 3:16:57 PM



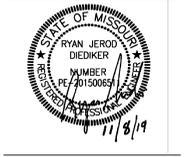
FLOOR PLAN - PLUMBING
 SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILING, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
 2. CAREFULLY COORDINATE PIPE ROUTING WITH NEW AND EXISTING STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
 3. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
 4. PROVIDE SHUT OFF VALVES ABOVE ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION FOR ALL BRANCH PIPING AND INDIVIDUAL CONNECTIONS TO PLUMBING FIXTURES. WHERE STOPS ARE PROVIDED FOR INDIVIDUAL FIXTURES SHUT OFF VALVES ARE ALSO REQUIRED AT THE BRANCH CONNECTION. PLUMBING STOPS ARE NOT CONSIDERED A SUBSTITUTE FOR SHUT OFF VALVES.
 5. AVOID ROUTING ANY PIPING THROUGH IT ROOMS OR ELECTRIC ROOMS. IN THE EVENT IT IS ABSOLUTELY NECESSARY, COORDINATE THE EXACT LOCATION SUCH THAT IT IS NOT DIRECTLY ABOVE ANY PANELS OR EQUIPMENT.
 6. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
 7. ALL HOT WATER RECIRC BALANCE DEVICES SHALL BE 1 GPM CIRCUIT SETTERS UNLESS OTHERWISE NOTED.
 8. REFER TO RISER DIAGRAM FOR ADDITIONAL PLUMBING INFORMATION.
 9. ALL SERVICES SHOWN WITH HALF TONE LINE WEIGHT ARE EXISTING.

- PLAN NOTES:**
- ① 4" SAN UP INTO CHASE.
 - ② 2" SAN UP TO 1-1/2" VENT.
 - ③ 3" VENT THROUGH ROOF.
 - ④ 1-1/4" GAS PIPE DOWN FROM ROOF.
 - ⑤ NOT USED.



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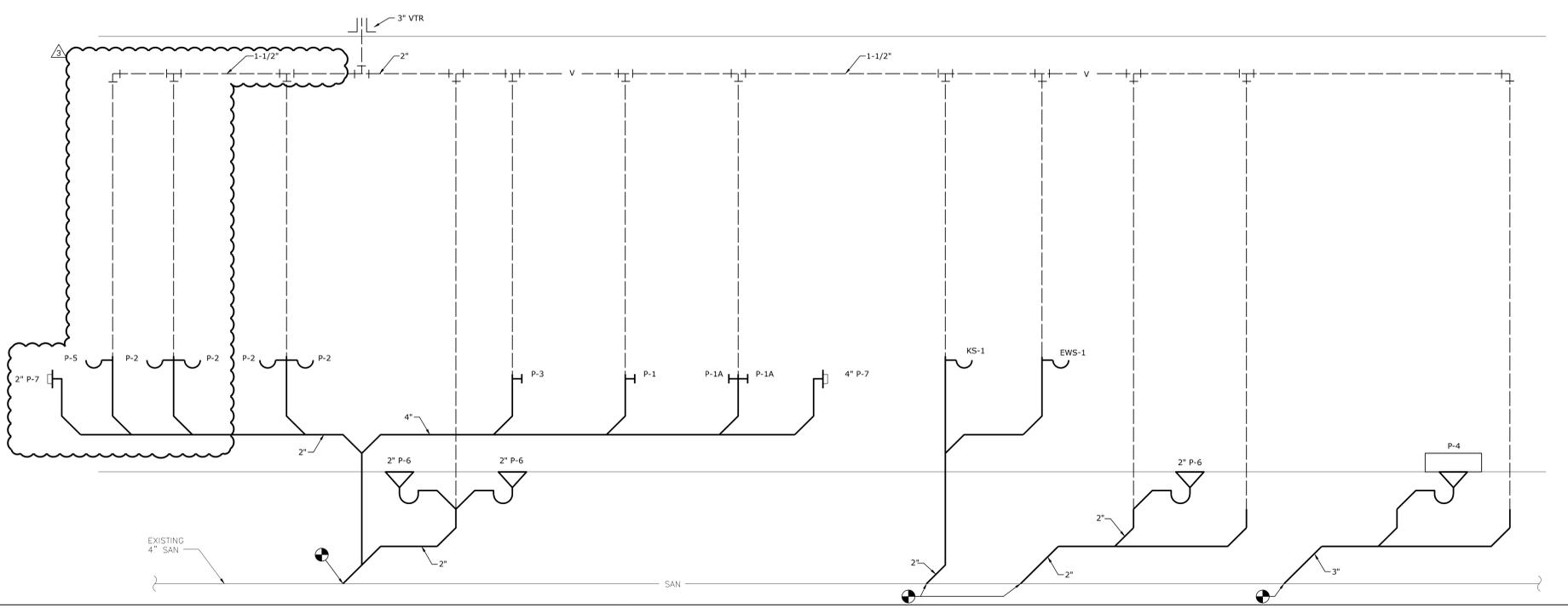
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 November 8, 2019

PLUMBING PLAN



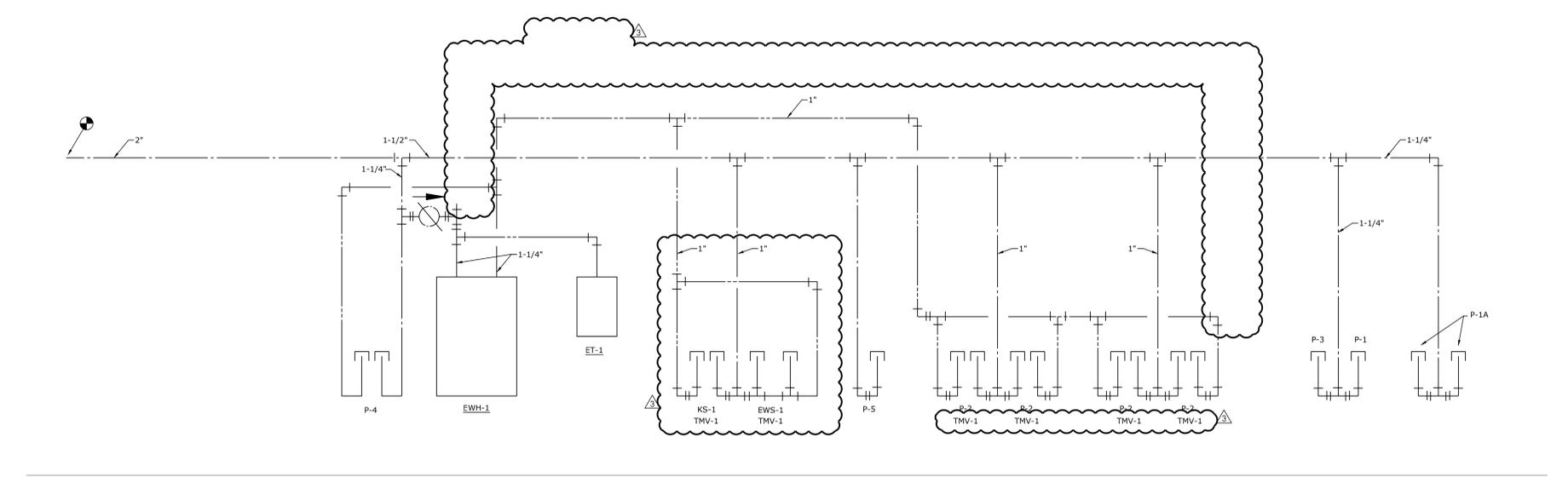
PLUMBING		PIPING	
---	DOMESTIC COLD WATER	⊥	ELBOW DOWN
---	DOMESTIC HOT WATER	⊥	ELBOW UP
---	RECIRCULATING DOMESTIC HOT WATER	⊥	TEE UP
---TW---	DOMESTIC TEMPERED WATER	⊥	TEE DOWN
---	SOFT DOMESTIC COLD WATER	⊥	CAP
---	SOFT DOMESTIC HOT WATER	⊥	UNION
---+++---	SOFT RECIRCULATING HOT WATER	⊥	REDUCER (OR INCREASER)
---SAN---	SOIL OR WASTE ABOVE GRADE OR FLOOR	⊥	PIPE FLEX
---SAN---	SOIL OR WASTE BELOW GRADE OR FLOOR	⊥	STRAINER
---ST---	STORM ABOVE GRADE OR FLOOR	⊥	RISE IN PIPING
---ST---	STORM BELOW GRADE OR FLOOR	⊥	DROP IN PIPING
---ST/O---	STORM OVERFLOW ABOVE GRADE OR FLOOR	⊥	GUIDE
---ST/O---	STORM OVERFLOW BELOW GRADE OR FLOOR	⊥	ANCHOR
---V---	PLUMBING VENT	⊥	PRESSURE GAUGE WITH GAUGE COCK
---	GAS (NATURAL)	⊥	TEMPERATURE GAUGE
---	LIQUIFIED PETROLEUM	⊥	FLOW INDICATOR
---	PUMP DISCHARGE	⊥	THERMOMETER
⊥	HOSE BIBB	⊥	SITE GLASS
⊥	WALL HYDRANT	⊥	EXPANSION JOINT
⊥	WALL CLEAN OUT	⊥	FILTER-DRIER
⊥	CLEAN OUT	⊥	DRIP ASSEMBLY
⊥	FLOOR CLEAN OUT	⊥	BASKET STRAINER
⊥	FLOOR DRAIN, AREA DRAIN, FLOOR SINK	⊥	SHUTOFF VALVE
⊥	ROOF DRAIN, OVERFLOW ROOF DRAIN	⊥	SHUTOFF VALVE IN RISER
⊥	SHOWER HEAD	⊥	BALANCING VALVE
⊥	REDUCED PRESSURE BACKFLOW PREVENTER	⊥	CALIBRATED BALANCING VALVE
⊥	PLUMBING VENT RISER CALL-OUT NUMBER	⊥	RELIEF VALVE
		⊥	TEST PLUG
		⊥	TRIPLE DUTY VALVE
		⊥	CHECK VALVE
		⊥	AUTOMATIC CONTROL VALVE (2-WAY)
		⊥	AUTOMATIC CONTROL VALVE (3-WAY)
		⊥	AUTO FLOW CONTROL VALVE
		⊥	SOLENOID VALVE
		⊥	PRESSURE REDUCING VALVE



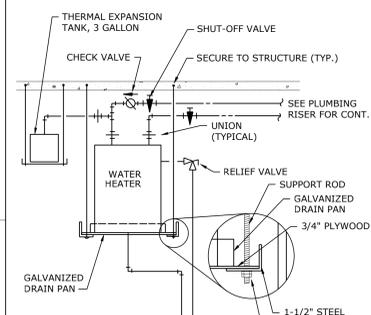
SANITARY RISER - PLUMBING
NOT TO SCALE

PLUMBING SYMBOLS

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

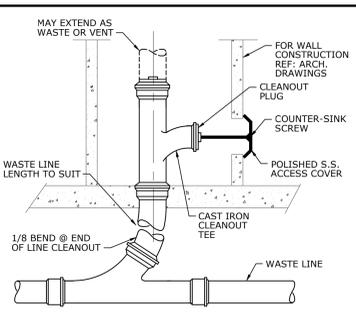


DOMESTIC WATER RISER - PLUMBING
NOT TO SCALE

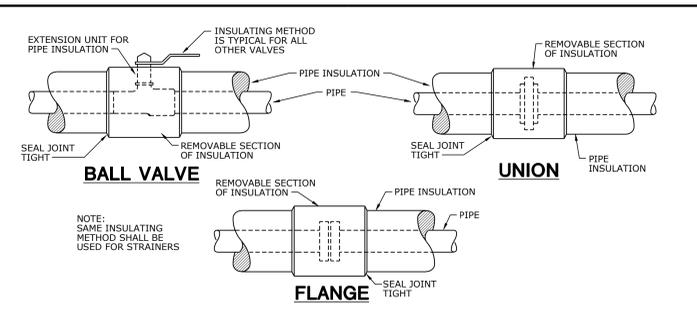


SUSPENDED WATER HEATER DETAIL
NOT TO SCALE

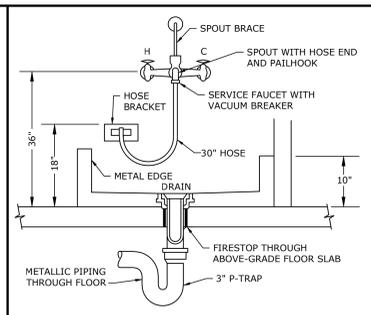
NOTES:
1. ROUTE DRAIN LINES IN PARALLEL TO DISCHARGE AT JANITOR'S SINK



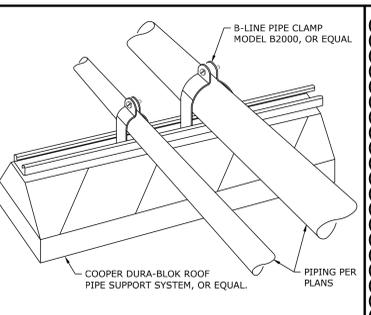
WALL CLEANOUT
NOT TO SCALE



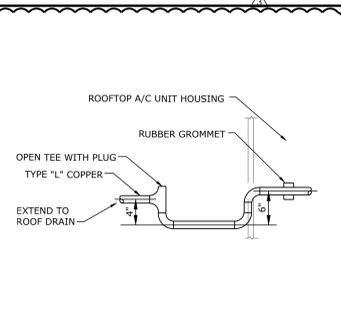
PIPE INSULATION DETAILS
NOT TO SCALE



JANITORS CLOSET MOP SINK DETAIL
NOT TO SCALE



ROOF MOUNTED GAS PIPING SUPPORT DETAIL
NOT TO SCALE



RTU-COND. DRAIN P-TRAP
NOT TO SCALE

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SYMBOLS AND DETAILS - PLUMBING

PROJECT NAME: Summit Orchards Lot 4B - Lee's Summit, MO
 PROJECT LOCATION: 492 NW Chipman Rd, Lee's Summit, MO 64086
 PROJECT NUMBER: 180902-02
 DATE: 11/18/19
 DRAWN BY: CHARLES BOEY
 CHECKED BY: CHARLES BOEY
 PLOTTED BY: CHARLES BOEY
 DATE PLOTTED: 11/18/19 3:17:12 PM

PLUMBING REQUIREMENTS

THE WORK INCLUDES MODIFICATION TO THE EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGNOSTIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT REQUIREMENTS. REFER TO STANDARD REQUIREMENTS FOR PLUMBING IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

PLUMBING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

FIXTURES/EQUIPMENT FURNISHED BY OTHERS: PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS REQUIRED SUCH AS WATER, GAS, SUPPLIES, WASTE, OUTLET, TRAPS, ETCETERA AT ALL PLUMBING TYPE FIXTURES AND EQUIPMENT FURNISHED BY OWNER, GENERAL CONTRACTOR, EQUIPMENT SUPPLIER, ETCETERA. INCLUDED ARE STOP VALVES, ESCUTCHEONS, AND CHROME PLATED BRASS TUBING WITH COMPRESSION FITTINGS.

SANITARY SEWER PIPING: PROVIDE ALL DRAINS AND PIPING WITHIN THE PROJECT SPACE WITH CONNECTION TO THE EXISTING DRAINAGE SYSTEMS ON-SITE. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST-IRON PIPE AND FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE ABS/PVC PLASTIC PIPE WITH SOLVENT WELD FITTINGS, OR SERVICE-WEIGHT HUB AND SPIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM. NO ABS/PVC PLASTIC PIPING IS ALLOWED WITHIN THE CEILING VOIDS IF USED FOR NON-DUCTED RETURN AIR FLEUMS. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER AND 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER, UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS.

SANITARY VENT PIPING: PROVIDE A COMPLETE SYSTEM OF ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR STANDARD WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS. NO ABS/PVC PIPING IS ALLOWED WITHIN THE CEILING VOIDS IF USED FOR NON-DUCTED RETURN AIR FLEUMS. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: TYPE M COPPER TUBING UP TO 1" O.D. TYPE DWV COPPER TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.

STORM WATER PIPING: PROVIDE ALL STORM DRAINS AND PIPING WITHIN THE PROJECT SPACE WITH CONNECTION TO THE EXISTING STORM SYSTEMS OR TO THE STORM PIPING ABOVE FLOOR SHALL BE ABS/PVC PLASTIC PIPE WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST-IRON PIPE AND FITTINGS AND CONNECTIONS. STORM PIPING BELOW GRADE SHALL BE ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR SERVICE-WEIGHT HUB AND SPIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM. NO ABS/PVC PLASTIC PIPING IS ALLOWED WITHIN THE CEILING VOIDS IF USED FOR NON-DUCTED RETURN AIR FLEUMS. ALL STORM PIPING SHALL BE UNIFORMLY PITCHED AT A MINIMUM OF 1/8" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL STORM, WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBTURE FROM VIEW.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. ABOVE GRADE HOT AND COLD WATER PIPING SHALL BE 1/2" MINIMUM TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. BELOW GRADE HOT AND COLD WATER PIPING SHALL BE 1/2" MINIMUM TYPE K COPPER TUBING WITH WROUGHT COPPER FITTINGS, AND SWEAT CONNECTIONS. PROVIDE WATER HAMMER ARRESTERS AT EACH FIXTURE OR GROUP OF FIXTURES AS REQUIRED. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE LEAD FREE OR TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: RIDGE ONE-PIECE FIBERGLASS PIPE INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 547, SELF-SEALING ADHESIVE LAP CONJUNCTION JOINTS AND BUTT JOINTS FOR TRANSVERSE JOINTS. JACKETING SHALL CONFORM TO ASTM C 1136, TYPE I, MAXIMUM VAPOR TRANSMISSION RATING OF 0.02 PERM WHEN TESTED ACCORDING TO ASTM E 96, PROCEDURE A (K) VALVE 0.25 BTU/IN./HR. • FT² • °F AT 75°F MEAN TEMPERATURE WITH A MINIMUM R-VALUE OF R4.

PROVIDE INSULATION THICKNESS AS INDICATED:
DOMESTIC COLD WATER PIPING 1" AND SMALLER: 1/2" THICKNESS.
DOMESTIC HOT WATER PIPING 1-1/4", 2", 3/4" THICKNESS.
PLUMBING VENT PIPING WITHIN 6 FEET OF ROOF OUTLET: 1" THICKNESS.
STORM WATER PIPING: 1" THICKNESS.
OVERFLOW STORM WATER PIPING: 1" THICKNESS.
CONDENSATE PIPING: 1/2" THICKNESS.
DOMESTIC HOT WATER PIPING 2" AND SMALLER: 1" THICKNESS.

WATER AND WASTE PIPING BELOW HANDICAP LAVATORIES/SINKS:

PIPE INSULATION: FLEXIBLE, ONE PIECE, EXPANDED CLOSED-CELL ELASTOMERIC PIPE INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 578, SELF-SEALING, WITH A MAXIMUM VAPOR TRANSMISSION RATING OF 0.20 PERM WHEN TESTED ACCORDING TO ASTM E 96. THERMAL CONDUCTIVITY (K VALUE) SHALL NOT EXCEED 0.27 BTU/IN./HR. • FT² • °F AT 75°F MEAN TEMPERATURE WITH A MINIMUM R-VALUE OF R3.7, AND INSULATION AND JACKET SHALL BE RATED FOR OPERATING TEMPERATURES FROM 40°F TO 180°F.

PROVIDE INSULATION THICKNESS AS INDICATED:
DOMESTIC COLD WATER PIPING 2" AND SMALLER: 1/2" THICKNESS.
DOMESTIC HOT WATER PIPING 2" AND SMALLER: 1/2" THICKNESS.
SANITARY PIPING 2" AND SMALLER: 1/2" THICKNESS.
CONDENSATE PIPING: 1/2" THICKNESS.

SHUTOFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. PIPE LINE VALVES SHALL BE EQUAL TO CRANE SERIES #9200, QUARTER TURN BALL VALVE. CONSTRUCTION - TWO PIECE, BRONZE BODY, FULL PORTED, CHROME PLATED BRASS BALL, REPLACEABLE "TEFLON OR TFE" SEATS AND SEALS. RATING - 150 PSI WSP, 600 PSI WOC. CONNECTIONS - SOLDER OR THREADED ENDS TO MATCH PIPING. STANDARDS COMPLIANCE - BRONZE OR BRASS VALVES: MSS-SP-110. WHEN SHUTOFF VALVE ARE PLACE IN THE CEILING, AND NOTHING SHALL BE PLACE BETWEEN THE CEILING ACCESS AND THE VALVES.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETCETERA ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

TEST SANITARY DRAINAGE AND VENT SYSTEM BY FILLING WITH WATER, WITH ALL POINTS IN THE SYSTEM BEING SUBJECT TO PRESSURE OF AT LEAST 10' OF WATER. WATER LEVEL SHALL REMAIN STATIONARY FOR A PERIOD OF ONE HOUR, WITHOUT ANY PIPE OR JOINT LEAKAGE. IF TESTING INDICATES DEFICIENTS REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE GAS FIRED HVAC EQUIPMENT AS NOTED ON THE DRAWINGS. PROVIDE EITHER THREADED STEEL OR MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND GOVERNING LOCAL CODES AND AT EACH GAS APPLIANCE CONNECTION. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER / MODEL	DESCRIPTION	FITTINGS		NOTE	PIPING CONNECTIONS				
			MANUFACTURER / MODEL	DESCRIPTION		CW	HW	SAN	VENT	
P-1	AMERICAN STANDARD AFWALL 2257.101	WATER CLOSET SHALL BE A WALL HUNG SIPHON JET FLUSH WITH CHAIR CARRIER.	SLOAN OPTMA ECOS 8111-1.6/1.1	FLUSH VALVE SHALL BE BATTERY POWERED FLUSHOMETER 1.6/1.1 GPM WITH 15 SECOND SHUTOFF.	3.4	1"	---	4"	2"	
P-1A	AMERICAN STANDARD AFWALL 2257.101	ADA WATER CLOSET SHALL BE A WALL HUNG SIPHON JET FLUSH WITH CHAIR CARRIER.	SLOAN OPTMA ECOS 8111-1.6/1.1	FLUSH VALVE SHALL BE BATTERY POWERED FLUSHOMETER 1.6/1.1 GPM WITH 15 SECOND SHUTOFF. COORDINATE HEIGHT OF FLUSH VALVE WITH ADA GRAB BAR.	3.4	1"	---	4"	2"	
P-2	AMERICAN STANDARD AQUALYN 476.028	16"x10"x5-5/8" WHITE VITREOUS CHINA, SELF RIMMING, DROP-IN BOWL.	SLOAN OPTMA EBF-650	BATTERY POWERED, DECK MOUNTED, LOW INTEGRATED BASE BODY FAUCET, 0.35GPM.	1,2,3,4,5	1/2"	1/2"	2"	1-1/2"	
P-3	AMERICAN STANDARD WASHBROOK FLOWISE 6590.001	ADA URINAL SHALL BE WALL HUNG WASHOUT TYPE, TOP SPUD	SLOAN OPTMA G2-8186.5	0.5GPF, BATTERY POWERED FLUSHOMETER.	4	3/4"	---	2"	1-1/2"	
P-4	MUSTEE 63M	MOP SERVICE BASIN SHALL BE 24"x24"x10" BASIN WITH INTEGRAL STRAINER AND DRAIN.	MUSTEE 63.600A	WALL MOUNTED FAUCET WITH VACUUM BREAKER, WALL BRACE AND PAIL HOOK. #65.700 HOUSEHOLD BRACKET AND 65.600 MOP HANGER.		1/2"	1/2"	3"	2"	
P-5	OASIS VERSACOLLER II PG8ACSL	DOUBLE B-HLEVEL WALL HUNG ELECTRIC WATER FOUNTAIN. MOUNT PER ADA REQUIRED HEIGHT.	---	---	---	1/2"	---	2"	1-1/2"	
KS-1	ELKAY LUSTERTONE LRAD172055	18 GAUGE, 304 STAINLESS STEEL, SINGLE BASIN, ADA COMPLIANT DROP-IN SINK WITH 1.5GPM AERATOR	KOHLER K-15171-F-CP	1.5GPM CHROME THREE HOLE, SINGLE HANDLE FAUCET	1,2,3	1/2"	1/2"	2"	1-1/2"	
FPWH-1	JAY R. SMITH 5509QT	NON-FREEZE, VACUUM BREAK, 1/4-TURN KEY HANDLE, STAINLESS STEEL BOZ WITH NICKEL BRONZE COVER	---	---	---	3/4"	---	---	---	
TPV-1	PRECISION PLUMBING PRODUCTS P1-500	TRAP PRIMER VALVE. DU-U DISTRIBUTION UNIT	---	---	---	---	---	---	---	
TMV-1	SYMMONS 7-225-CK-MS	THERMOSTATIC MIXING VALVE IN WALL CABINET. MOUNT IN ACCESSIBLE LOCATION BELOW SINK. SET AT 106°F, ASSE 1070	---	---	---	1/2"	1/2"	---	---	
EWS-1	GUARDIAN G1814	WALL MOUNTED EYE WASH WITH STAINLESS STEEL BOWL. 1/2" U.S. MADE CHROME PLATED BRASS STAY OPEN BALL VALVE, POWDER COATED CAST ALUMINIUM FLAG HANDLE AND WALL BRACKET. UNIT SHALL HAVE (2) POLYPROPYLENE GUN SPRAY HEADS WITH INTEGRAL "FLIP-TO" DUST COVERS, FILTERS AND 1.8-GPM FLOW CONTROL ORIFICES MOUNTED ON A CHROME PLATED BRASS EYE WASH ASSEMBLY. UNIT SHALL INCLUDE ANSI COMPLIANT SIGN. UNIT SHALL BE FULLY FACTORY ASSEMBLED AND HYDROSTATICALLY TESTED TO MEET OR EXCEED ANSI Z358.1 - 2009, AND COME WITH A FULL 2-YEAR WARRANTY.	GUARDIAN G3600	LEAD FREE THERMOSTATIC MIXING VALVES INCLUDED WITH A BUILT-IN COLD WATER BY-PASS, ROUGH BRONZE FINISH, SOLID BI-METAL THERMOSTAT, LOCKING TEMPERATURE REGULATOR WITH LIMIT STOP FACILITY SET FOR 90 DEGREES, INTEGRAL CHECK STOPS, AND DIAL THERMOMETER. PERFORMANCE: UNIT SHALL HAVE A FLOW RANGE OF 0.5-GPM TO 5-GPM WITH A MAXIMUM PRESSURE LOSS OF 20-PSI AND COME WITH A FULL 1-YEAR WARRANTY.	---	1/2"	1/2"	2"	---	

- NOTES:
1. PROVIDE WITH ALL MOUNTING HARDWARE AS REQUIRED.
2. PROVIDE WITH CHROME PLATED DRAIN, GRID STAINER, TAILPIECE, AND TRAP.
3. PROVIDE STAINLESS STEEL BRAIDED HOSE WITH KEYS TO STOP.
4. PROVIDE CALK AROUND FIXTURE CONNECTION TO FLOOR/WALL. COLOR BY ARCHITECT / I.D.
5. TRAP AND INSULATION TO BE TRUE BRO #10 E-2 OR EQUAL.

PIPE INSULATION SCHEDULE - PLUMBING

SERVICE	PIPE SIZE	INSULATION
DOMESTIC COLD WATER	1/2" - 2"	1/2" FIBERGLASS, ASJ
DOMESTIC HOT WATER		
RECIRCULATING HOT WATER	ALL	1" FIBERGLASS, ASJ
TEMPERED WATER		
EXPOSED FIXTURE WASTETRAPS AND DOMESTIC HOT AND COLD WATER AT HANDICAPPED ACCESSIBLE SINKS AND LAVATORIES	ALL	TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER OVER 1/2" FIBERGLASS INSULATION

- NOTES:
1. FOR ALL EXPOSED PIPING PROVIDE PAINTABLE PVC JACKET. (EXCLUDES MECHANICAL SPACES)
2. IF PEX PIPING IS USED, IT STILL REQUIRES INSULATION

DOMESTIC WATER EXPANSION TANK SCHEDULE

DESIGNATION	ET-1
UNIT MANUFACTURER	AMTROL
MODEL	ST-12-C
SERVICE	DOM. HOT WATER
MIN. TEMP. (°F)	40
MAX. TEMP. (°F)	120
LINE PRESSURE (PSIG)	60
MAX. PRESSURE (PSIG)	125
TANK SIZE (GAL)	6.4
ACCEPTANCE (GAL)	0.5
HEIGHT (IN.)	18
DIAMETER (IN.)	12
WEIGHT (LBS.)	26
REFERENCE DRAWING/DETAIL	P1
REMARKS	

DOMESTIC WATER HEATER - ELECTRIC

DESIGNATION	EWH-1
UNIT MANUFACTURER	STATE WATER HEATERS
MODEL	PCE 20 10MSA
SERVICE	DOM. HOT WTR
CAPACITY (GALLONS)	20
RECOVERY @ 80°F RISE (GPH)	23
OUTLET TEMP. (°F)	120
INPUT (KW)	4.5
VOLTS/PHASE	208/1
PANEL & CIRCUIT	AL-82.84
WIRE & CONDUIT	(2)#10, #10G, 3/4"C.
OVERCURRENT DEVICE	30A-2P CB
DISCONNECT	30A-2P NF
REFERENCE DRAWING/DETAIL	P1
REMARKS	

DRAIN SCHEDULE

MARK	MANUFACTURER/ MODEL	DESCRIPTION	REMARKS
P-6	WADE 1100A	CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP AND 6" NICKEL BRONZE VANDAL RESISTANT SCREWS. PROVIDE WITH TRAP SEAL DEVICE.	1,2
P-7	WADE	ALL CLEANOUTS TO BE BRASS FINISH. WALL CLEANOUTS TO BE CHROME FINISH.	1,2

- NOTES:
1. COORDINATE ALL LOCATIONS WITH (BUT NOT EXCLUDING) EQUIPMENT, HOUSE-KEEPING PADS, MILLWORK, AND STRUCTURAL.
2. REFER TO PLANS FOR OUTLET SIZE.

PROJECT NAME: Construction \ Name:
LAST CORRECTION # DATE TIME:
PLOTTED BY: JMT DATE TIME:
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C:\Users\jmt\AppData\Local\Temp\1923000_03.dwg
Thursday, January 9, 2020 1:35:19 PM
Thursday, January 9, 2020 3:17:34 PM
Charles Boudy

HomeGoods
Tenant Improvements
Summit Orchards Lot 4B
492 NW Chipman Rd
Lee's Summit, MO 64086

- Revisions:
Add-01 City Comments 11/18/19
Add-02 Tenant Comments 12/18/19
Add-03 Tenant Comments 01/10/20

Project #: 180902-02

Construction / Permit Set
November 8, 2019

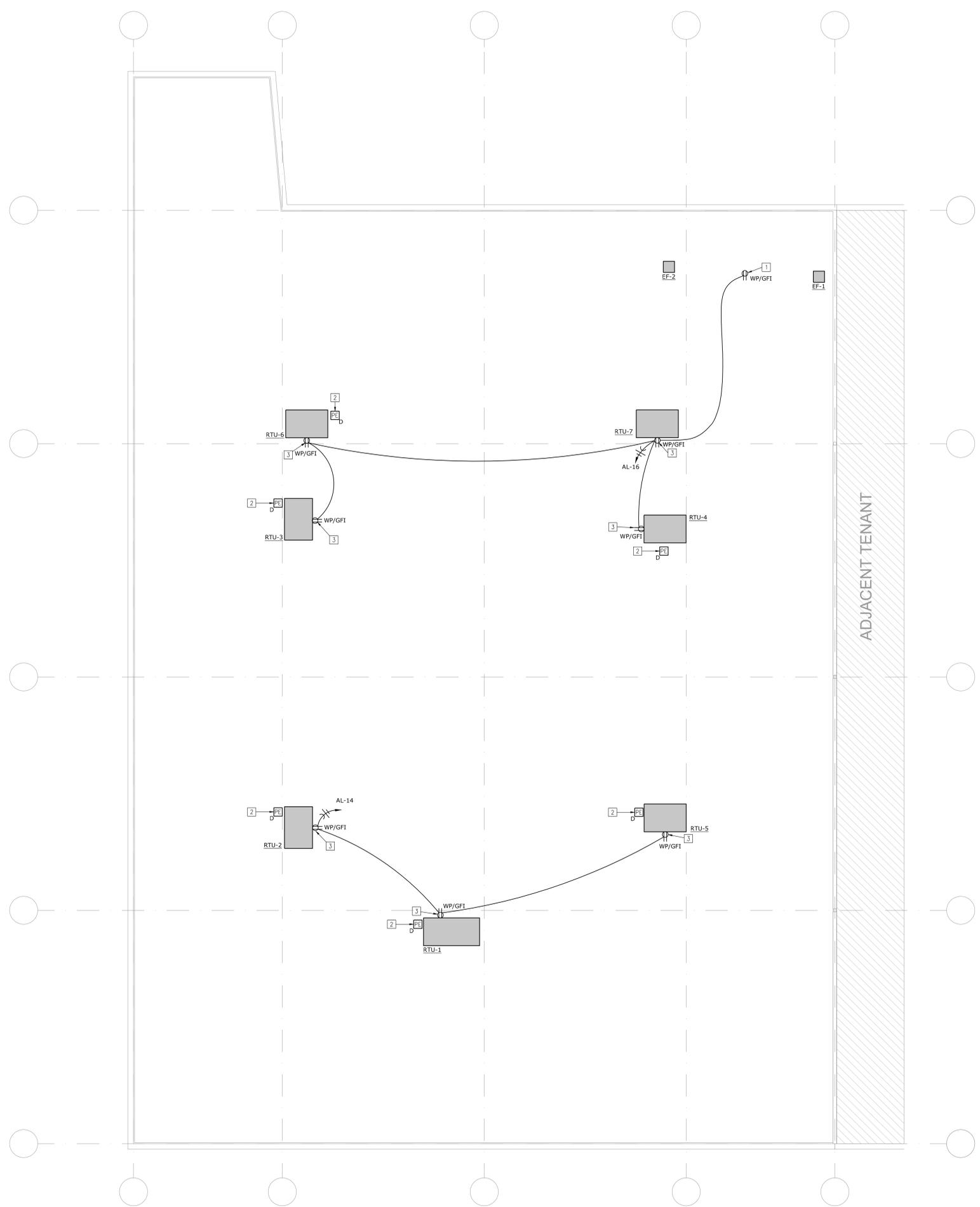
SCHEDULES - PLUMBING

Summit Orchards, Site A, Core - Lee's Summit, MO
 25501 West Valley Parkway, Suite 200, Lee's Summit, MO 64061
 913.345.2127 (fx) 913.345.0613 (cell)
 Project Number: 1923000
 Date: 11/18/19
 Drawn By: Blee
 Checked By: Prassanna Patro
 Wednesday, December 18, 2019 11:23:19 AM
 Wednesday, December 18, 2019 3:51:37 PM

PROJECT NAME: Summit Orchards, Site A, Core - Lee's Summit, MO
 LOCATION: Summit Orchards, Site A, Core - Lee's Summit, MO
 LAST CORRECTION BY: DATE • TIME:
 PLOTTED BY: DATE • TIME:

ROOF PLAN - ELECTRICAL
 SCALE: 1/8" = 1' - 0"

- ELECTRICAL NOTES:**
- 1 FURNISH AND INSTALL WEATHER PROOF / GFI RECEPTACLE ON UNISTRUT UP THROUGH ROOF IN A PITCH PAN.
 - 2 DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF OUTSIDE AIR UNIT. LOCATE IN SUPPLY DUCT. MAKE CONNECTIONS TO UNIT AS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS. UNIT TO ALSO SHUTDOWN UPON DETECTION OF SMOKE AT ANY OF THE FIRE/SMOKE DAMPERS ASSOCIATED WITH THIS EQUIPMENT.
 - 3 WEATHER PROOF GFI RECEPTACLE FACTORY PROVIDED WITH EQUIPMENT. PROVIDE ELECTRIC CONNECTION AS NEEDED PER MANUFACTURER RECOMMENDATIONS.



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 888-756-1958
 slaggie.com



HomeGoods
 Tenant Improvements
 Summit Orchards Lot 4B
 492 NW Chipman Rd
 Lee's Summit, MO 64086

Revisions:	
▲ Add-01 City Comments	11/18/19
▲ Add-02 Tenant Comments	12/18/19

Project #: 180902-02

Construction / Permit Set
 November 8, 2019

ROOF PLAN - ELECTRICAL

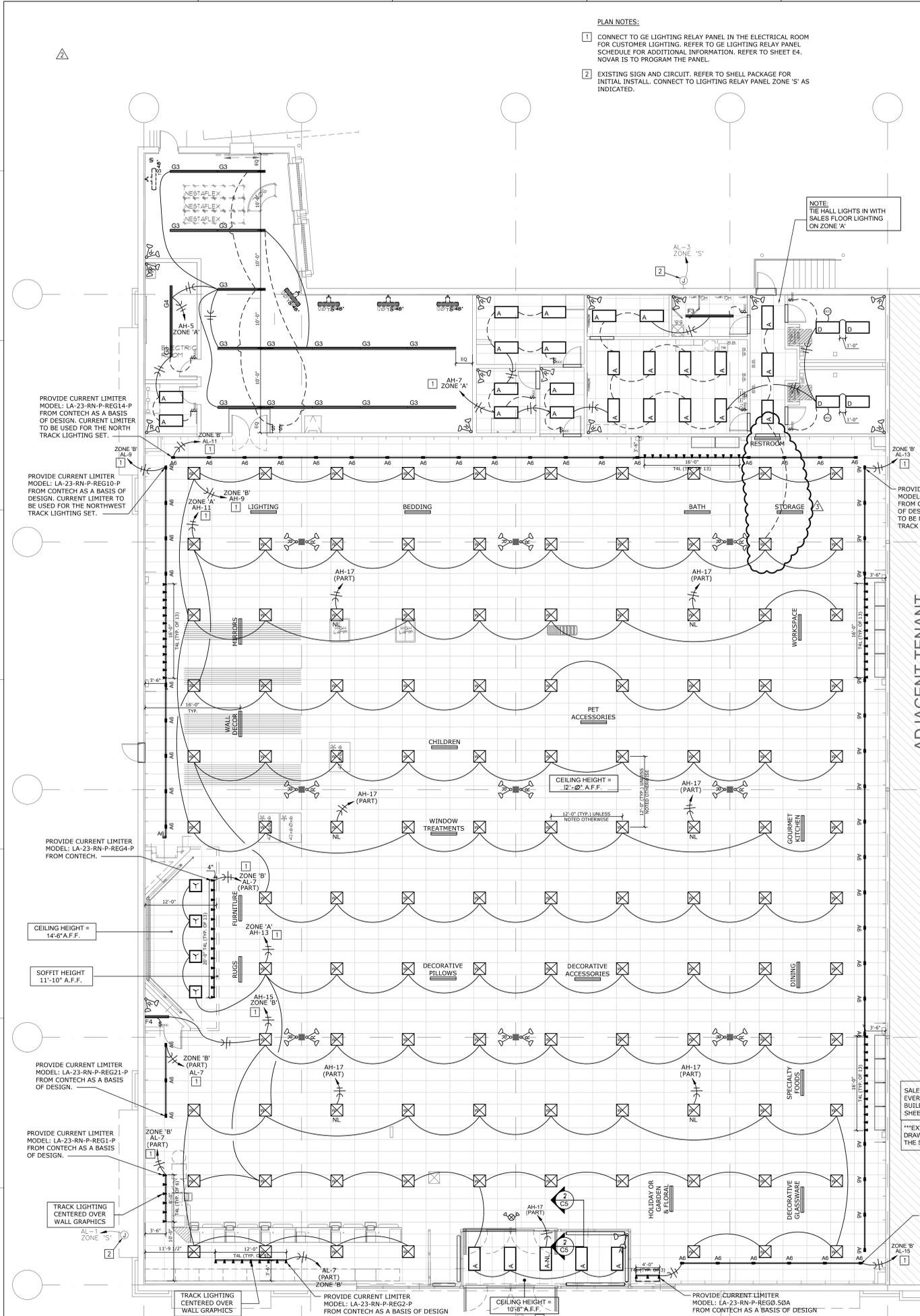




LIGHTING SCHEDULE									
SYMBOL	SIZE	SYSTEM WATTAGE	SYSTEM VOLTAGE	FIXTURE MOUNTING METHOD	LAMP QUANTITY	LAMP TYPE	MANUFACTURER	SPECIFICATION NUMBER (ORDERING INFORMATION)	REMARKS
A	2' X 4'	37	MULTI-VOLTAGE	Recessed	N/A	LED	ACUTY (LITHONIA)	ZESLA 48L E21 LPS3 NAT1	
A4	14 3/4" X 43 9/16"	111	277V	Pendant	N/A	LED	ACUTY (LITHONIA)	CA01N 165L 277 E21 LPS30 CS78W/L20 (277 V)	E.C. TO FURNISH LOCKING RECEPTACLE AT OPEN DECK CEILING (SEE NOTE 4)
A6	5-1/2" X 3-7/8"	57	120V	TRACK	N/A	LED	CONTECH	CTLB4V350-P	SEE AIMING ANGLE TABLE, THIS SHEET.
A14	14-3/4" X 43-9/16"	111	277V	Pendant	N/A	LED	ACUTY (LITHONIA)	CA01N 165L 277 E21 LPS35 CS78W/L20 (277 V)	E.C. TO FURNISH LOCKING RECEPTACLE AT OPEN DECK CEILING (SEE NOTE 4)
B	2' X 4'	18	120V	Wall Mounted	1	LED	CRESENT	DC740CP3 (Dock Swing Arm)	DOCKLIGHT
D	2' X 4'	37	MULTI-VOLTAGE	Recessed	N/A	LED	ACUTY (LITHONIA)	ZESLA F 48L E21 LPS35 NAT1	FOR GYPSUM BOARD CEILINGS, AND FLANGE KITS
E	EXIT SIGN	4.3	MULTI-VOLTAGE	Wall Mounted	N/A	LED	ACUTY (LITHONIA)	LHQH-LED-R-120/277	QUANTUM LHM EXIT SIGN/EMERGENCY LIGHT COMBO
F3	4" X 8"	45.2	MULTI-VOLTAGE	Surface	N/A	LED	HUBBELL (COLUMBIA)	LSR88-4W-40W-FA-EDU-HS08-CSHC	
F4	4" X 4"	22.6	MULTI-VOLTAGE	Surface	N/A <td LED	HUBBELL (COLUMBIA)	LSR84-4W-40W-FA-EDU-HS04-CSHC		
G3	4" X 8"	45.2	MULTI-VOLTAGE	Pendant	N/A	LED	HUBBELL (COLUMBIA)	LSR88-4W-40W-FA-EDU-HS08-CSHC	(16" WITH 3" & 8" WITH 2)
G4	4" X 4"	22.6	MULTI-VOLTAGE	Pendant	N/A	LED	HUBBELL (COLUMBIA)	LSR84-4W-40W-FA-EDU-HS04-CSHC	(16" WITH 3" & 8" WITH 2)
H3	3" X 8"	46	MULTI-VOLTAGE	Valance	N/A	LED	GE	LKV-38-A-0-60-WW-1-35-V-Q-SM-WHITE	MUST BE MOUNTED STRAIGHT
H4	3" X 4"	23	MULTI-VOLTAGE	Valance	N/A	LED	GE	LKV-34-A-0-30-WW-1-35-V-Q-SM-WHITE	MUST BE MOUNTED STRAIGHT
H5	3" X 3"	16	MULTI-VOLTAGE	Valance	N/A	LED	GE	LKV-33-A-0-20-WW-1-35-V-Q-SM-WHITE	MUST BE MOUNTED STRAIGHT
K3	14.125" X 14.125"	22	277V	Recessed	N/A	LED	SPECTRUM	MC12SQE00A22L40K2J7F0112HWFO	USE UNDER CANOPY
L	16" X 9-5/8"	32	MULTI-VOLTAGE	Wall Mounted	N/A	LED	BATON (SURRELITE)	LDWP-GL-4B-ED-EMLED-CD	
LI	16" X 9-5/8"	32	MULTI-VOLTAGE	Wall Mounted	N/A	LED	BATON (SURRELITE)	LDWP-GL-4B-ED	
LM	LIGHTED MIRROR	40	MULTI-VOLTAGE	Wall Mounted	N/A	LED	PHILIPS	OCLM-W-66ALE00K-UV-PHD (MARSHALL'S WHITE)	WHITE
LM2	LIGHTED 3-WAY MIRROR	39	MULTI-VOLTAGE	Wall Mounted	N/A <td LED	STYLMARK	62098-02	TIX PURCHASE, (NOT SUPPLIED BY NESCO)	
LM3	LIGHTED MIRROR	40	MULTI-VOLTAGE	Wall Mounted	N/A	LED	PHILIPS	OCLM-W-66ALE00K-UV-PHD-CC(PBS) (SILVER) T3 MAXX	BRIGHT PRISM SILVER
O5	10" X 4"	73	MULTI-VOLTAGE	Recessed	2	F32TB	ACUTY (LITHONIA)	WW GF 232 MVOLT CEUMH (RWH GB35HT8 RFD	HIGH GLOSS WHITE REFLECTOR
O7	2' X 2'	20.2	MULTI-VOLTAGE	Recessed	N/A	LED	ACUTY (LITHONIA)	2RLT2 20L E21 LPS30	
P2	18" DIAMETER	88	277V	Pendant	N/A	LED	SPECTRUM	P85TP16LEDL10BL330KX16WPC240P77(L7-20) PRL6R16CMRPT (277V)	E.C. TO FURNISH LOCKING RECEPTACLE AT OPEN DECK CEILING (SEE NOTE 4)
Q	13.12" X 14.61"	56	277V	Pendant	N/A	LED	SPECTRUM	WA121LEDL60W35K2E2WA131/CP13HAT96/GW (277)	BOTTOM OF FIXTURE MOUNTED AT 8'-8" AFF
R	EMERGENCY	1.5	MULTI-VOLTAGE	Surface	N/A	LED	ACUTY (LITHONIA)	ELM2-LED	CAN USE ELM2-LED, ELM11, or other emergency lights in the Acuity ELM family
R1	EMERGENCY	6	MULTI-VOLTAGE	Recessed	N/A	LED	ACUTY (LITHONIA)	ELBG	WITH 90 MIN BATTERY BACKUP
R2	EMERGENCY	1	MULTI-VOLTAGE	Wall Mounted	N/A	LED	ACUTY (LITHONIA)	ELA-LED-T-WP-M12	CONNECTS TO REMOTE BATTERY "R3"
R3	EMERGENCY	6	MULTI-VOLTAGE	Wall Mounted	N/A	LED	ACUTY (LITHONIA)	ELT24-W-R0	BATTERY PACK FOR REMOTE HEAD "R2"
S	15-25/32" X 7-3/4"	50	MULTI-VOLTAGE	Surface	N/A	LED	EATON	ENV-F02-LED-E1-BL3-GR	EXTERIOR WALL SCIENCE - T3 MAXX
S1	15-25/32" X 7-3/4"	50	MULTI-VOLTAGE	Surface	N/A	LED	EATON	ENV-F02-LED-E1-BL3-WH	EXTERIOR WALL SCIENCE - MARSHALLS
S2	8" X 10"	14	277V	Surface	N/A	LED	SPECTRUM	NL100BLEDGV14W35K1E1U1F1 CGS/SPIC0104AB (120V) NL100BLEDGV14W35K1E1U1F1 CGS/SPIC0104AB (277V)	
S3	8" X 10"	14	277V	Surface	N/A	LED	SPECTRUM	NL100BLEDGV14W35K1E1U1F1 CGS/SPIC0104AB (120V) NL100BLEDGV14W35K1E1U1F1 CGS/SPIC0104AB (277V)	
T4L	2-7/8" X 2-1/16"	17	120V	Track	1	PHILIPS/CONTECH	PHILIPS/CONTECH	CT1603-P (LAMP HOLDER) 435362 (PHILIPS LAMP)	TRACK MOUNTED SPOT LIGHT
W	2' X 2'	104	277V	Recessed	N/A	LED	SPECTRUM	GC220BLEDGV 113 35K E(2) T1L GW (277V)	
Y	2' X 2'	104	277V	Recessed	N/A	LED	SPECTRUM	GC220BLEDGV 113 35K E(2) T1L GW (277V)	

- PLAN NOTES:**
- CONNECT TO GE LIGHTING RELAY PANEL IN THE ELECTRICAL ROOM FOR CUSTOMER LIGHTING. REFER TO GE LIGHTING RELAY PANEL SCHEDULE FOR ADDITIONAL INFORMATION. REFER TO SHEET E4. NOVAR IS TO PROGRAM THE PANEL.
 - EXISTING SIGN AND CIRCUIT. REFER TO SHELL PACKAGE FOR INITIAL INSTALL. CONNECT TO LIGHTING RELAY PANEL ZONE 'S' AS INDICATED.

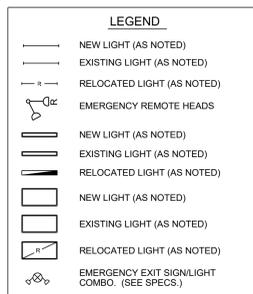
NOTE: TIE HALL LIGHTS IN WITH SALES FLOOR LIGHTING ON ZONE 'A'



A6 AIMING ANGLE TABLE

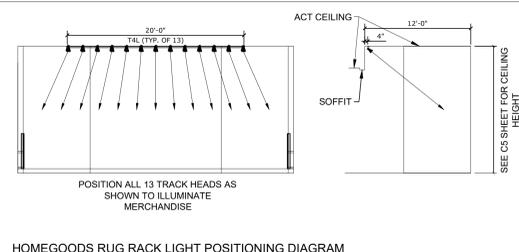
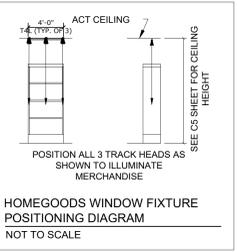
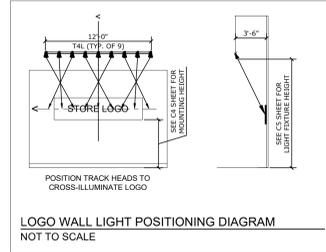
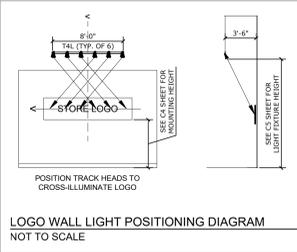
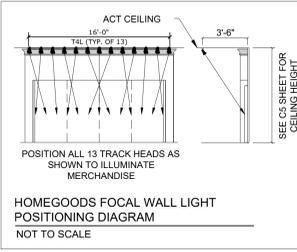
Mounting Height (Ceiling Height)	Distance off the Wall	Desired Angle
10'-0"	3'-6"	41°
11'-0"	3'-6"	35°
12'-0"	3'-6"	30°
13'-0"	3'-6"	27°
14'-0"	3'-6"	24°
15'-0"	3'-6"	21°

NOTE: LIGHTING PATTERN MUST REMAIN AS DRAWN AND ADHERE TO THIS PLAN. ALL LIGHT FIXTURES IN SALES AREA WILL BE MOUNTED @ 12"-0" A.F.F. TO THE UNDERSIDE OF THE FIXTURE. (SEE EXCEPTIONS). PLEASE CONTACT TIX PROJECT MANAGER AND M.O.D. IMMEDIATELY IF THERE ARE ANY FIXTURE SPACING OR MOUNTING HEIGHT CONFLICTS. TIX WILL NOT BE RESPONSIBLE FOR COSTS INCURRED FOR INCORRECT INSTALLATION AND MOUNTING OF LIGHT FIXTURES WITHOUT PRIOR NOTIFICATION TO TIX P.M. OR M.O.D..



- LIGHTING NOTES:**
- STORE LIGHTING (SALES & SUPPORT) SHALL INCORPORATE QUANTUM ELM2 TYPE FIXTURES TO ACT AS EMERGENCY LIGHTS. NUMBER OF FIXTURES TO BE DETERMINED BY CODE.
 - NL-FIXTURES WILL BE WIRED BEFORE A SWITCH OR CONTACTOR. (FIXTURES WILL RUN 24 HOURS)
 - LAVATORY STOCK & PROCESSING ROOM LIGHTING TO BE MOUNTED AT 13' AFF. (LIGHTING TO BE COORDINATED WITH HVAC & STRUCTURAL STEEL)

- TYPE A4 PENDANT LIGHTING FITTED WITH LOCKING PLUG. NEMA L5-20P 20A, 125V NEMA L7-20P 20A, 277V E.C. TO FURNISH AND INSTALL APPROVED LOCKING RECEPTACLE AT OPEN DECK CEILING, PER REQUIRED VOLTAGE. NEMA L5-20R 20A, 125V NEMA L7-20R 20A, 277V
- SIGN** HANGING SIGNS PROVIDED AND INSTALLED BY TIX.
- SECURE EXCESS CORD WITH TIE STRAP ABOVE LIGHT FIXTURE. COORDINATE WITH TIX PROJECT MANAGER.
- CIRCUIT ALL EMERGENCY LIGHTING WITH AN UNSWITCHED HOT CONDUCTOR. REFER TO PANEL SCHEDULE FOR CIRCUIT TO EMERGENCY FIXTURES AND EXIT SIGNS.



SALES FLOOR LIGHTING SHALL BE CIRCUITED EVERY OTHER ROW TO OPERATE WITH BUILDING MANAGEMENT SYSTEM (SEE E3 SHEET).

**EXTERIOR ITEMS NOT FOUND IN THE 'T' DRAWINGS FOR HOMEGOODS ARE SHOWN IN THE SHELL DRAWINGS.

PROVIDE CURRENT LIMITER MODEL: LA-23-RN-P-REG6-P FROM CONTECH AS A BASIS OF DESIGN.

FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

PROJECT NAME: HomeGoods - Less Summit, MO
LOCATION: 492 NW Chipman Rd, Summit, MO 64086
DATE: 11/18/19
DRAWN BY: CHARLES BOBAY
CHECKED BY: CHARLES BOBAY
DATE: 11/18/19
PROJECT NUMBER: 1923000

HomeGoods
Tenant Improvements
Summit Orchards Lot 4B
492 NW Chipman Rd
Lee's Summit, MO 64086

Revisions:
 Add-01 City Comments 11/18/19
 Add-02 Tenant Comments 12/18/19
 Add-03 Tenant Comments 01/10/20

Project #: 180902-02

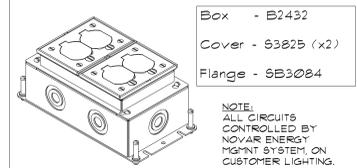
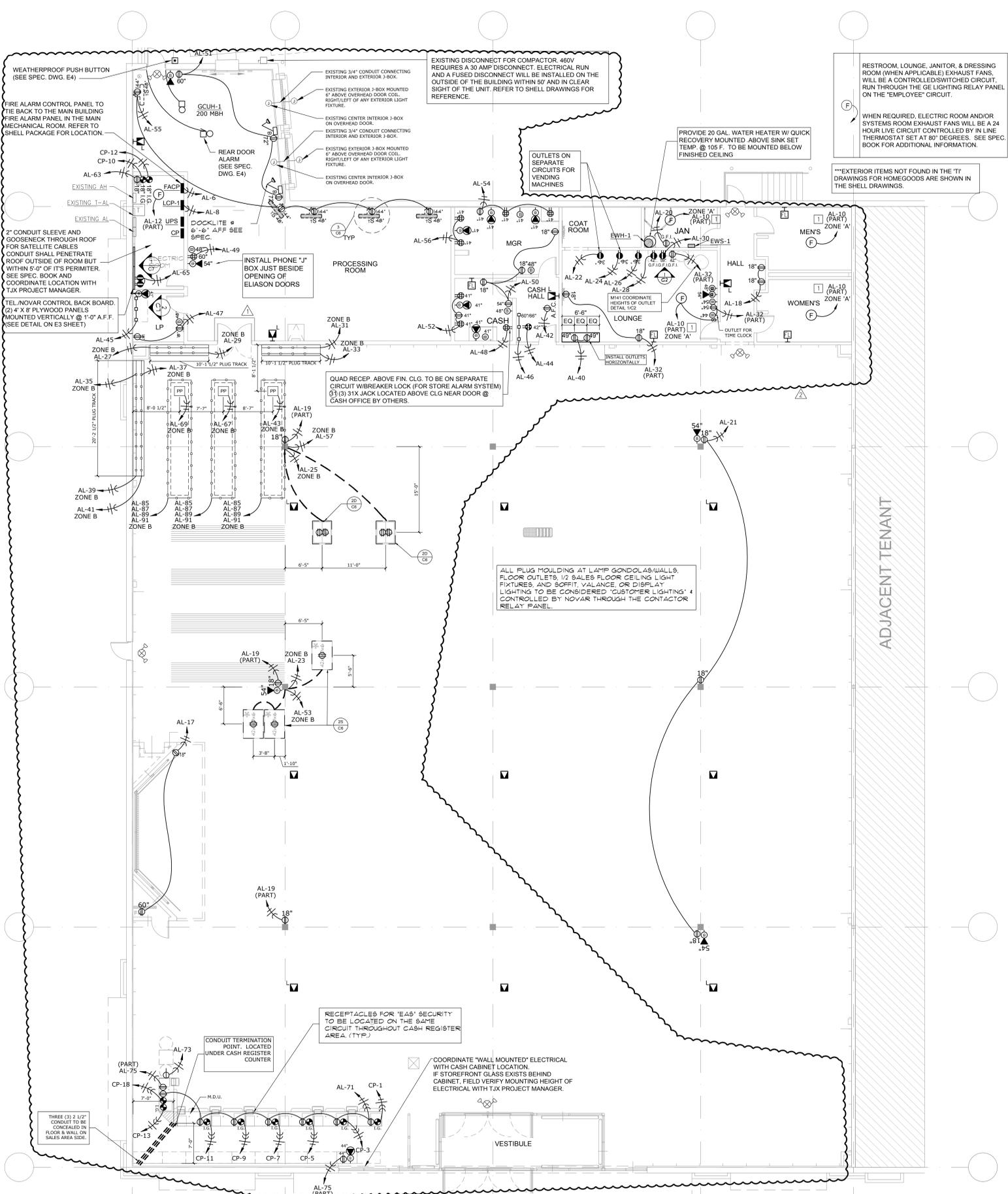
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November 8, 2019

LIGHTING PLAN & ELECTRICAL SYMBOLS

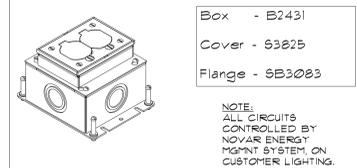


GENERAL NOTES:
1. ALL SERVICES SHOWN HALF TONE ARE EXISTING.

PLAN NOTES:
1. CONNECT TO GE LIGHTING RELAY PANEL IN THE ELECTRICAL ROOM. REFER TO GE LIGHTING RELAY PANEL SCHEDULE FOR ADDITIONAL INFORMATION.



2D C6
DOUBLE HUBBELL FLOOR BOX ASSEMBLY DETAIL
NOT TO SCALE



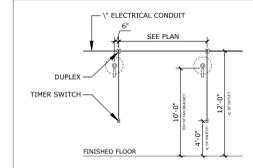
2S C6
SINGLE HUBBELL FLOOR BOX ASSEMBLY DETAIL
NOT TO SCALE

- CEILING**
- 4' x 8' OR 16' RAPID START FLUORESCENT STRIP LIGHTING FIXTURE 4.5/8' WIDE
 - 1' x 4' RECESSED FLUORESCENT LIGHTING FIXTURE
 - 2' x 4' RECESSED FLUORESCENT LIGHTING FIXTURE WITH 2, 3 OR 4 LAMPS AS SCHEDULED
 - EXHAUST FAN CEILING RECESSED, ILG INDUSTRIES MODEL GCV 1000 CAT 'B' 135W WITH SPEED CONTROL, MODEL ILG-TRONIC CAT 'B' 95W
 - EMERGENCY REMOTE LIGHT HEADS AND EXIT SIGN, WALL MOUNTED, SEE SPECS.
 - EXTERIOR SIGN JUNCTION BOX
 - SINGLE OCCUPANCY SENSOR SWITCH (FIR) / REFER TO T.J.X. SPECIFICATIONS FOR PRODUCT INFORMATION
- UNISTRUT - 4" INCREMENTS
UNISTRUT - 6" INCREMENTS
UNISTRUT - 8" INCREMENTS
- FLOOR/WALL**
- 3' OR 4' FLUORESCENT STRIP LIGHTING FIXTURE 3/4" WIDE FOR VALANCE
 - DEDICATED SINGLE RECEPTACLE
 - EXTERIOR LUMINAIRE, SEE SPECS
 - DEDICATED DUPLEX RECEPTACLE
 - DUPLEX CONVENIENCE OUTLET, CENTERLINE 18" AFF UNLESS OTHERWISE NOTED
 - QUADRUPLUX OUTLET
 - DEDICATED QUADRUPLUX RECEPTACLE
 - QUADRUPLUX RECEPTACLE WITH ISOLATED GROUND
 - DUPLEX RECEPTACLE WITH ISOLATED GROUND
 - BLANKED OUTLET WITH 3/4" EMT RUN UP WALL TO ABOVE SUSPENDED CEILING, HEIGHT AS NOTED
 - JUNCTION BOX TO HEIGHT INDICATED
 - THERMOSTAT
 - EXIT SIGN (WALL MOUNTED), SEE SPECS
 - SINGLE POLE SWITCH
 - SINGLE OCCUPANCY SENSOR SWITCH (FIR) / REFER TO T.J.X. SPECIFICATIONS FOR PRODUCT INFORMATION
 - THREE WAY SWITCH
 - ELECTRICAL WATER COOLER, SEE SPECS
 - EMERGENCY TELEPHONE - WALL HUNG, RECESSED
 - TELEPHONE - WALL HUNG
 - TELEPHONE - DESK SET
 - BELL WITH LOW VOLTAGE TRANSFORMER, CENTERLINE 90" AFF
 - GHME WITH LOW VOLTAGE TRANSFORMER, CENTERLINE 54" AFF, UNLESS OTHERWISE NOTED
 - PUSH BUTTON, HEIGHT AS NOTED
 - DOCK LIGHT
 - PLUG MOULDING
 - POWER POLE
 - LOW VOLTAGE WIRING CONDUIT 4" JUNCTION BOX BY G.C. W/PULL WIRE. (WIRING BY OTHERS)
 - WIREMOLD AL44800S SURFACE MOUNTED RACEWAY
 - PHONE/DATA JACK
 - EXTERIOR WALL LIGHT FIXTURE
 - ELECTRIC STRIKE
 - COMPACTOR DISCONNECT
 - CENTRAL VAC UNIT
 - CENTRAL VAC PORT TO BE MOUNTED CENTERLINE 90" AFF, UNLESS OTHERWISE NOTED
 - FIRE ALARM STROBE LIGHT
 - FIRE HORN (L DENOTES COMBINATION HORN AND VISUAL FIRE LIGHT)

NOTE: GENERAL CONTRACTOR'S ELECTRICAL ENGINEER/ELECTRICIAN RESPONSIBLE FOR ALL HUBBELL PLUGTRAK SYSTEM (WALL AND GONDOLA) CIRCUITRY CALCULATIONS PER THE NATIONAL ELECTRIC CODE. (PLUGTRAK RECEPTACLES 6" ON CENTER) ALL PLUGTRAK CIRCUITS CONTROLLED BY NOVAV ENERGY MANAGEMENT SYSTEM. (4) FOUR CIRCUITS PER GONDOLA (MIN) (1) ONE REQUIRED AT EACH SIDE AT CENTER SPLINE & AT BOTH ENDS. ALL PLUGTRAK CIRCUITS CONTROLLED BY NOVAV ENERGY MGMT SYSTEM, ON CUSTOMER LIGHTING, (4) CIRCUITS

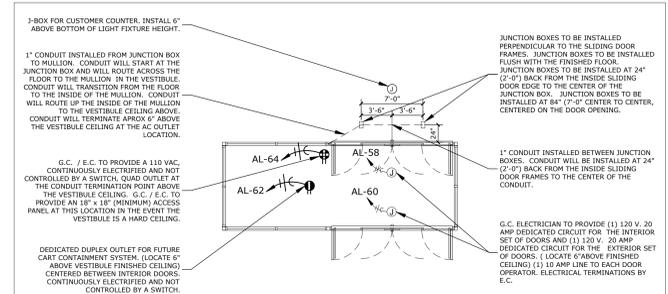
GONDOLA PLUGTRAK = POWER POLE LOCATED AT THE REAR OF THE GONDOLA TO WIRE TWO ROWS OF PLUGTRAK SET @ 5' AND 39" FROM THE TOP OF THE GONDOLA BASE DECK (14" AND 43 1/2" A.F.F.). (SEE PROFILE IN THE HOMEGOODS FIXTURE INSTALLATION MANUAL)

WALL "LAMPS" PLUGTRAK = INSTALL WIRE PLUGTRAK WHERE LAMPS INDICATED ON THE WALL. CENTERLINE OF PLUGTRAK SET @ 5' AND 39" ABOVE THE BASE DECK (14" AND 43 1/2" A.F.F.).



NOTE: MAXIMUM OF 5 FANS PER CIRCUIT. EACH FAN CONTROLLED BY A TIMER SWITCH. SWITCH MOUNTED AT 4'-0" AFF.
FAN SPEC: TPC CACU-24W
TIMER SWITCH SPEC: TORK CS06H
FAN AND TIMER SWITCH PURCHASED BY G.C.

3 C6
ELECTRICAL ELEVATION @ WALL MOUNTED CIRCULATORS



1 C6
VESTIBULE DETAIL
NOT TO SCALE
VESTIBULE ORIENTATION MAY BE DIFFERENT

FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

PROJECT NAME: Construction, Name: Lee's Summit, MO
LOCATION: 1923000_V1923000_06-1923000_E2.dwg
DATE: 12/18/19 8:47:48 AM
LAST MODIFICATION: 12/18/19 8:47:48 AM
PLOT DATE: 12/18/19 3:52:12 PM
PLOT BY: JMT

HomeGoods
Tenant Improvements
Summit Orchards Lot 4B
492 NW Chipman Rd
Lee's Summit, MO 64086

Revisions:
Add-01 City Comments 11/18/19
Add-02 Tenant Comments 12/18/19

Project #: 180902-02

Construction / Permit Set
November 8, 2019

NOVAR INTERFACE SUMMARY (REFER TO T.J.X. SPECIFICATIONS FOR DETAIL INFORMATION)

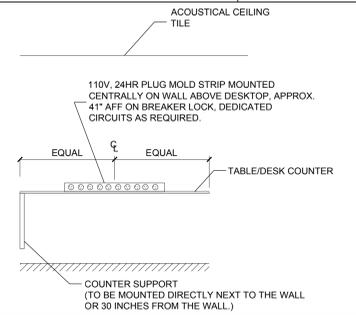
- 1) GENERAL CONTRACTOR
 - A) PROVIDE AND INSTALL A 4'X8' PLYWOOD BACKBOARD IN THE ELECTRIC ROOM FOR NOVAR TO MOUNT THEIR EQUIPMENT. PHONE AND ETHERNET JACKS FOR THE NOVAR SAVVY CONTROLLER WILL ALSO BE LOCATED ON THIS BOARD BY A SEPARATE T.J.X. VENDOR.
- 2) MECHANICAL CONTRACTOR
 - A) HORIZONTALLY MOUNT A 2'X4' J-BOX WITH CONDUIT (WIEMOLD IF EXPOSED IN FINISHED AREAS) AT THE LOCATIONS DESIGNATED ON THE NOVAR CONTROLS SITE SPECIFIC PLANS. THE J-BOXES ARE TO BE MOUNTED AT 60" A.F.F. EXCEPT IN FITTING ROOM LOCATIONS WHERE THE J-BOXES ARE TO BE MOUNTED AT 84" A.F.F. ON THE SALES FLOOR, THE J-BOXES ARE TO BE MOUNTED ON BACK SIDE OF THE COLUMNS WHEN VIEWED FROM FRONT OF STORE.
 - B) PROVIDE AND INSTALL A PERMANENT STRANDED 18# AWG NON SHIELDED CABLE (18/10 IF THE RTU IS EQUIPPED WITH A CO2 SENSOR WITH THE UNIT) FROM EACH ROOFTOP UNIT TO THE NOVAR ETM (T-STAT) LOCATION SHOWN ON THE NOVAR PLAN THAT SUPERSEDES ANY MECHANICAL PLAN LOCATIONS.
 - C) TEMPORARY THERMOSTATS ARE TO BE INSTALLED AT THE ETM LOCATIONS AND THE ROOFTOP UNITS STARTED.
 - D) HVAC EQUIPMENT ARE TO HAVE HAD A MANUFACTURER'S RECOMMENDED STARTUP PROCEDURE PERFORMED AND BE OPERATIONAL IN ALL MODES BEFORE THE ARRIVAL OF THE NOVAR CONTROLS REPRESENTATIVE FOR THE FINAL NOVAR INSTALLATION.
- 3) ELECTRICAL CONTRACTOR
 - A) PROVIDE AND INSTALL A THREE PHASE CIRCUIT BREAKER (20 AMPS) FOR THE PHASE MONITOR. THIS BREAKER MAY BE INSTALLED IN A LIGHTING DISTRIBUTION PANEL IF THE PANEL IS OF THE SAME VOLTAGE AS THE MAIN DISTRIBUTION PANEL.
 - B) INSTALL THE NOVAR PROVIDED CURRENT TRANSFORMERS (CTS).
 - C) CONNECT ALL CT WIRING TO THE PHASE MONITOR.
 - D) MOUNT AND POWER THE PHASE MONITOR.
 - E) PROVIDE AND INSTALL BMS#1 (20 AMP, 1 POLE BREAKER), BMS#2 (20 AMP, 1 POLE BREAKER), AND BMS #3 (20 AMP, 1 POLE BREAKER) POWER SUPPLY. THESE BREAKERS MUST ORIGINATE FROM THE SAME PHASE.
 - F) THE INSTALLATION, PROGRAMMING, AND LABELING OF THE GE SOFTWARE PANEL IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

HVAC SUMMARY (REFER TO T.J.X. SPECIFICATIONS FOR DETAIL INFORMATION)

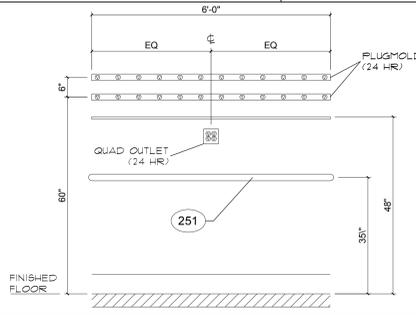
- 1) HVAC NOVAR INTERFACE (THE HVAC CONTRACTOR'S WORK PRIOR TO THE NOVAR CONTRACTOR'S WORK):
 - A) THERMOSTATS:
 - I) THE HVAC CONTRACTOR IS TO PROVIDE AND INSTALL A PERMANENT 18/8 (18/10 IF THE RTU IS EQUIPPED WITH A CO2 SENSOR WITH THE UNIT) THERMOSTAT WIRING FROM THE LOW VOLTAGE SECTION OF EACH HVAC UNIT TO THE FINAL LOCATION OF THE THERMOSTAT (LOCATION OF THE THERMOSTATS ARE IN ACCORDANCE WITH THE PLANS PRODUCED BY NOVAR AND SUPERSEDE THE MECHANICAL PRINT LOCATIONS).
 - II) THE HVAC CONTRACTOR IS TO INSTALL A TEMPORARY THERMOSTAT FOR EACH HVAC UNIT AT THESE LOCATIONS FOR TESTING AND OPERATIONS.
 - III) THE THERMOSTATS ARE TO BE MOUNTED AT 60" A.F.F. EXCEPT IN THE FITTING ROOM WHERE THE THERMOSTAT IS TO BE MOUNTED AT 84" A.F.F. IF THERMOSTAT LOCATIONS CONFLICTS WITH A PHONE LOCATION, INSTALL THERMOSTAT SIX TO EIGHT INCHES ABOVE THE PHONE. IF PROVIDED, CO2 SENSORS ARE TO BE INSTALLED SIX INCHES DIRECTLY ABOVE THE THERMOSTAT.
 - IV) IN COLD WEATHER, THE HVAC CONTRACTOR IS TO PROVIDE AND INSTALL TEMPORARY A THERMOSTAT FOR RECEIVING HEATERS.
 - B) SMOKE DETECTORS:
 - I) THE HVAC CONTRACTOR IS TO SUPPLY AND INSTALL SMOKE DETECTORS FOR THE HVAC EQUIPMENT. (AS WELL AS ANY ADDITIONAL DETECTORS REQUIRED BY THE BUILDING AND/OR OFFICIALS HAVING JURISDICTION AND GOVERNING CODE). THE SMOKE DETECTORS ARE TO BE PHOTOELECTRIC.
- 2) AIR BALANCING:
 - I) UPON COMPLETION OF THE HVAC SYSTEM, AIR BALANCING IS TO BE PERFORMED BY AN INDEPENDENT CERTIFIED AIR BALANCING COMPANY.
 - II) THE CERTIFIED AIR BALANCING REPORT IS TO BE SUBMITTED TO THE T.J.X. COMPANIES PROJECT MANAGER.
- 3) THE DISPOSABLE HVAC FILTERS ARE TO BE CHANGED JUST PRIOR TO THE STORE GRAND OPENING.
- 4) ALL ABANDONED HVAC EQUIPMENT IS TO BE PROPERLY REMOVED AND DISPOSED.
- 5) THE SPACE ABOVE THE CEILING IS NOT TO BE USED AS A RETURN AIR PLENUM.
- 6) ALL EQUIPMENT AND CONTROL DEVICES ARE TO BE APPROPRIATELY IDENTIFIED AND PERMANENTLY ATTACHED.
- 7) BASEBOARD HEATERS
 - A) BASEBOARD HEATERS ARE TO BE FACTORY EQUIPPED WITH INTEGRAL THERMOSTATS AND ARE TO BE INSTALLED IN ALL OFFICES, LOUNGE, RESTROOMS, AND SECURITY OFFICES THAT HAVE AT LEAST ONE OUTSIDE WALL (IN CLIMATE ZONES 4 AND 5).
 - B) THE CIRCUITING FOR BASEBOARD HEATING IS TO BE THROUGH THE GE RELAY PANEL.
- 8) VESTIBULE HEATERS
 - A) ELECTRIC VESTIBULE HEATERS ARE TO BE FACTORY EQUIPPED WITH LOW VOLTAGE CONTROLS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: POWER CONTRACTORS, LOW VOLTAGE TRANSFORMER AND A TWO WIRE FIELD TERMINATION CONTROL POINT.
- 9) EXHAUST FANS. EXHAUST FANS ARE TO BE CONTROLLED AS SHOWN ON T.J.X. CRITERIA PLANS AND POWERED VIA EMPLOYEE LIGHT CONTRACTOR ON THE GE SOFTWARE CONTRACTOR PANEL.

LIGHTING SUMMARY (REFER TO T.J.X. SPECIFICATIONS FOR DETAIL INFORMATION)

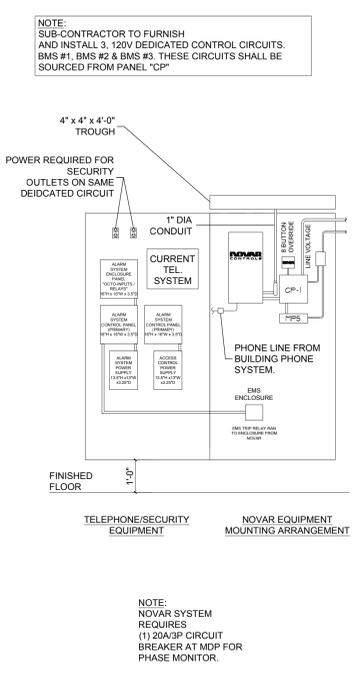
- 1) NIGHT LIGHTING:
 - A) NIGHT LIGHTS ARE TO BE ON 24 HOURS A DAY AND ONLY IN THE SALES AREA.
 - B) THE CIRCUIT FOR NIGHT LIGHTING IS NOT TO BE CONNECTED TO THE GE RELAY PANEL, OR EMERGENCY LIGHTING. THE NL SHOULD BE ONLY (1) CIRCUIT IN MOST SITUATIONS.
 - C) NIGHT LIGHTING "RULE OF THUMB" IS (1) NIGHT LIGHT FOR EVERY 3,000 SQUARE FEET OF SALES AREA (ROUND UP), AND SHOULD BE EVENLY DISTRIBUTED. (REFER TO T.J.X. CRITERIA PLAN SHEET (C5) FOR EXACT QUANTITIES & LOCATIONS).
- 2) EMERGENCY LIGHTING:
 - A) EMERGENCY LIGHTING IS TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND AT THE DIRECTION OF THE GOVERNING AUTHORITIES.
 - B) AT A MINIMUM, THE EMERGENCY LIGHTING IS TO BE AS FOLLOWS:
 - 1) ALL ROOMS AND SPACES ARE TO HAVE AT LEAST (1) EMERGENCY LIGHT.
 - 2) THE SALES AREA IS TO HAVE (1) EMERGENCY LIGHT PER 2,000 SQUARE FEET OF FLOOR AREA, AND SHOULD BE EVENLY DISTRIBUTED THROUGHOUT THE SPACE. PATHS OF EGRESS SHOULD BE OF PRIMARY COVERAGE.
 - 3) THE STOCK ROOM SHOULD HAVE A MINIMUM OF (4) EMERGENCY LIGHTS.
 - 4) THE EMERGENCY LIGHTING SYSTEM AND CIRCUITS ARE NOT TO BE CONNECTED TO THE GE RELAY PANEL AND THE CIRCUITS ARE TO BE DEDICATED WITH BREAKER LOCKS INSTALLED AT THE PANEL.
 - 5) THE EMERGENCY LIGHTS ARE TO BE LITHONIA LIGHTING, MODEL #ELM2, SELF-CONTAINED BATTERY UNITS.
- 3) SECURITY LIGHTING:
 - A) EXTERIOR SECURITY LIGHTING INCLUDES EXTERIOR WALL LIGHT PACKS ATTACHED TO THE BUILDING AS NOTED ON THE PLANS. THESE ARE GENERALLY MOUNTED ABOVE ALL EGRESS DOORS FROM THE STORE.
 - B) THE CIRCUITING FOR THIS IS THROUGH THE GE RELAY PANEL.
 - C) NOVAR WILL CONTROL THIS LIGHTING BY A SEPARATE CHANNEL IN THE RELAY PANEL. THIS LIGHTING IS OVERRIDDEN BY A LIGHT SENSOR SUPPLIED AND INSTALLED BY NOVAR.
- 4) SIGNS AND CANOPY LIGHTS:
 - A) THIS INCLUDES THE BUILDING, MALL, LIGHTED UNDER CANOPY, ETC. SIGNS AS WELL AS ANY CANOPY LIGHTS (IF NOT BEING CONTROLLED BY THE LANDLORD'S HOUSE PANEL).
 - B) THESE CIRCUITS ARE TO BE RUN THROUGH THE GE RELAY PANEL.
 - C) NOVAR WILL CONTROL THESE CIRCUITS BY A SEPARATE CHANNEL IN THE RELAY PANEL.
- 5) CUSTOMER LIGHTING:
 - A) SALES AREA:
 - 1) ONE HALF OF THE SALES AREA CEILING LIGHTS (ALTERNATE ROWS).
 - 2) ALL PERIMETER LIGHTING.
 - 3) ALL PENDANT LIGHTING.
 - 4) JEWELRY COUNTER LIGHTING.
 - 5) LAMP DEPARTMENT PLUGMOLD (ON WALLS AND FLOOR GONDOLAS).
 - 6) FLOOR OUTLETS FOR LAMP DEPARTMENT.
 - 7) CEILING MOUNTED CHANDLER FIXTURE OUTLETS.
 - 8) ANY SPECIALTY LIGHTING (I.E. WALL SCONCES, ETC.).
 - B) OFF SALES AREA:
 - 1) PENDANT LIGHTS IN THE FITTING ROOM.
 - 2) LIGHTED MIRRORS IN THE FITTING ROOM.
 - 3) THESE CIRCUITS ARE TO BE RUN THROUGH THE GE RELAY PANEL.
- 6) EMPLOYEE LIGHTING:
 - A) EMPLOYEE LIGHTING IS TO INCLUDE ALL (EXCEPT AS EXCLUDED BELOW) INTERIOR STORE LIGHTING AND BE RUN THROUGH THE GE RELAY PANEL. THE SALES AREA CEILING LIGHTS IS TO BE ALTERNATE ROWS.
 - B) ITEMS NOT INCLUDED IN "EMPLOYEE LIGHTING" ARE NIGHT LIGHTING, EMERGENCY LIGHTING, EXIT LIGHTING, DOCK LIGHTS, "SECURITY LIGHTING", "SIGNS AND CANOPY LIGHTS", AND "CUSTOMER LIGHTING" AS DESCRIBED ABOVE.
 - C) EMPLOYEE LIGHTING IS TO INCLUDE ALL EXHAUST FANS EXCEPT THE ELECTRICAL ROOM EXHAUST FAN THAT IS TO BE CONTROLLED BY A STAND-ALONE LINE VOLTAGE THERMOSTAT (SET AT 80° F). THESE CIRCUITS ARE TO BE RUN THROUGH THE GE RELAY PANEL.
- 7) G.E. SOFTWARE RELAY PANEL PROGRAMMING:
 - A) SOFTWARE LIGHTING GROUPS
 - 1) THE SCM SHALL ALLOW ANY GROUP OF RELAYS WITHIN THE PANEL TO BE ASSOCIATED ("SOFTWARED") TO A CHANNEL USING THE FOLLOWING PROCEDURE:
 - ...PRESS AND HOLD THE CHANNEL PUSH BUTTON FOR SEVERAL SECONDS. THE CHANNEL LED AND THE LEADS FOR RELAYS CURRENTLY CONTROLLED BY THAT INPUT WILL BEGIN TO FLASH.
 - ...SELECT THE RELAYS TO BE CONTROLLED. THE LED FOR EACH RELAY "SOFTWARED" TO THE CHANNEL SELECTED WILL BE FLASHING ON/OFF. PRESS THE ASSOCIATED RELAY CONTROL BUTTON TO ADD/DELETE THAT RELAY TO/FROM GROUP.
 - ...PRESS THE CHANNEL PUSH BUTTON AGAIN. THE LEADS WILL STOP FLASHING AND THE CHANNEL PUSH BUTTON AND ASSOCIATED SWITCH INPUTS WILL NOW CONTROL THE RELAYS SELECTED.
 - 2) TURNING A CHANNEL ON/OFF WILL SEQUENCE ALL OF THE RELAYS WITHIN THAT GROUP ON/OFF INDIVIDUALLY.
 - 3) CONTROLLING A SOFTWARE GROUP:
 - 1) EACH CHANNEL SHALL HAVE AN ASSOCIATED PUSH-BUTTON WITHIN THE PANEL TO TOGGLE THE CHANNEL ON/OFF.
 - 2) EACH CHANNEL SHALL ALSO HAVE TWO SEPARATE SWITCH OR DRY CONTACT INPUTS THAT WILL ALLOW THE CHANNEL TO BE CONTROLLED REMOTELY.
 - 4) THE CHANNEL SHALL RESPOND TO THE LAST INPUT.
 - 5) THE UNIT SHALL ALLOW A "MASTER CHANNEL" TO BE CONFIGURED TO CONTROL SEVERAL OF THE ABOVE CHANNELS BY SIMPLY INCLUDING ALL OF THE RELAYS OF THESE "SUB CHANNELS" WITHIN THE MASTER.
 - B) GROUP STATUS
 - 1) EACH CHANNEL PUSH-BUTTON SHALL INCLUDE A LED STATUS INDICATION. THE LED WILL BE ON WHENEVER ALL OF THE RELAYS WITHIN THE CHANNEL GROUP ARE ON, AND SHALL GO OFF WHEN ALL OF THE RELAYS WITHIN THE GROUP GO OFF.
 - 2) EACH CHANNEL SHALL ALSO HAVE AN ASSOCIATE DRY CONTACT CLOSURE OF PILOT CONTACT WHICH TRACKS THE LED OPERATION DESCRIBED ABOVE.
 - 3) CONTROLLING AN INDIVIDUAL RELAY
 - 1) EACH RELAY SHALL HAVE AN ASSOCIATED CONTROL BUTTON WITH LED STATUS INDICATION MOUNTED WITHIN THE LOW VOLTAGE SECTION OF THE PANEL.



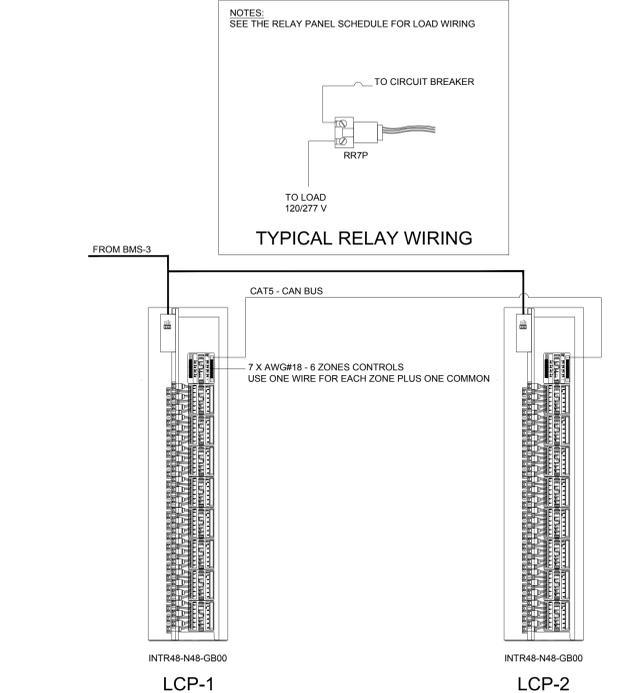
2
C7
DETAIL @ L.P. OFFICE
NOT TO SCALE



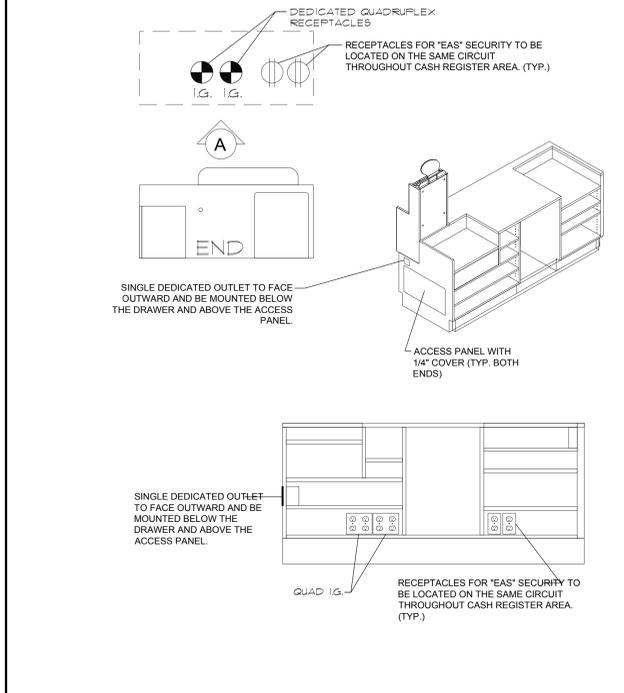
4
C7
DETAIL @ CASH OFFICE HALL
NOT TO SCALE



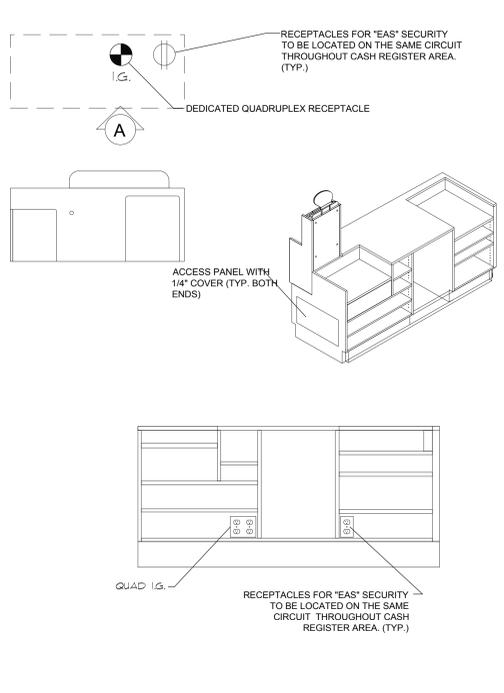
1
C7
ELEVATION AT ELECTRICAL ROOM
NOT TO SCALE



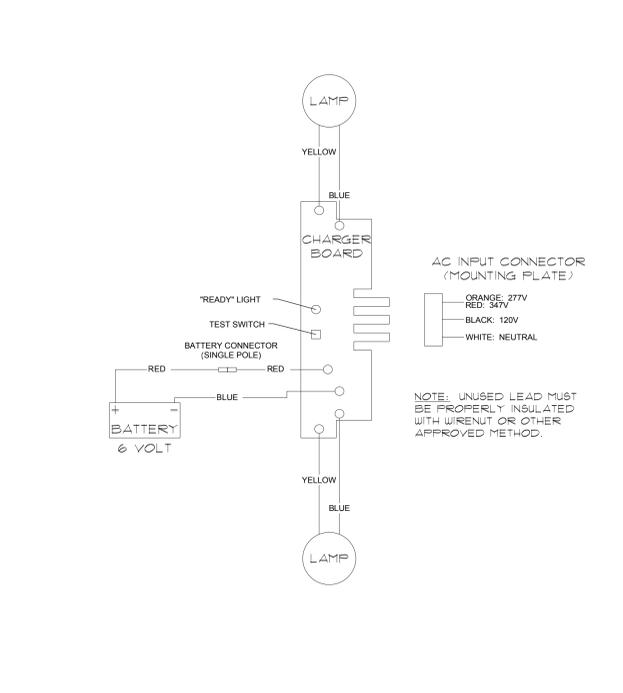
6
C7
GE RELAY PANEL - LOW VOLTAGE WIRING
NOT TO SCALE



SINGLE Q END CHECK OUT STAND
ELEVATION 'A' @ END CHECK OUT (TYPICAL)
NOT TO SCALE



SINGLE Q CHECK OUT STAND
ELEVATION 'A' @ CHECK OUT (TYPICAL)
NOT TO SCALE



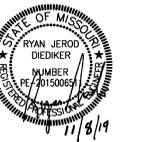
EMERGENCY LIGHTS WIRING DIAGRAM
NOT TO SCALE

PROJECT NAME: Smith & Boucher Architects, Inc. - Lee's Summit, MO
 PROJECT LOCATION: Summit Orchards Lot 4B, Lee's Summit, MO
 LAST CORRECTION: 11/18/2019 2:56:57 PM
 PLOTTED BY: JMT • TIME: 11/18/2019 3:52:31 PM
 PROJECT NUMBER: 180902-02
 DATE: 11/18/2019
 TIME: 3:52:31 PM

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 project number 1923000
 RYAN JEROD DIEDERER
 NUMBER PL 20150065
 11/18/19

HomeGoods
 Tenant Improvements
 Summit Orchards Lot 4B
 492 NW Chipman Rd
 Lee's Summit, MO 64086

Revisions:
 Add-01 City Comments 11/18/19
 Add-02 Tenant Comments 12/18/19
 Project #: 180902-02
 Construction / Permit Set
 November 8, 2019
P.O.S., REG., & MISC. ELECT. DETAILS
E3



LIGHTING RELAY PANEL - "LCP-1"

RELAY #	RELAY AREA DESCRIPTION	CIRCUIT	LOCAL OVERRIDE	ZONE	NOTES
1	EMPLOYEE LIGHTING - SALES NORTH HALF #1	AH-9	N/A	B	1
2	EMPLOYEE LIGHTING - SALES SOUTH HALF #1	AH-13	N/A	B	1
3	CUSTOMER LTG	AH-15	N/A	B	1
4	EMPLOYEE LTG	AH-11	N/A	A	1
5	PROCESSING ROOM LTG	AH-5	N/A	A	1
6	EMPLOYEE LIGHTING - OFFICES	AH-7	N/A	A	1
7	ECUH-1 (UNIT HEATER)	AH-8	N/A	A	1
8	EXTERIOR SIGN - FRONT	AL-1	N/A	S	1
9	EXTERIOR SIGN - SIDE	AL-1	N/A	S	1
10	EXTERIOR SIGN - REAR	AL-3	N/A	S	1
11	CUSTOMER LIGHTING - SOUTH WEST TRACK	AL-7	N/A	B	1
12	CUSTOMER LIGHTING - NORTH WEST TRACK	AL-9	N/A	B	1
13	CUSTOMER LIGHTING - NORTH TRACK	AL-11	N/A	B	1
14	CUSTOMER LIGHTING - EAST TRACK	AL-13	N/A	B	1
15	CUSTOMER LIGHTING - SOUTH EAST TRACK	AL-15	N/A	B	1
16	QUAD FLOOR BOX	AL-23	N/A	B	1
17	QUAD FLOOR BOX	AL-25	N/A	B	1
18	REC - PLUG MOULD NW SET 1	AL-27	N/A	B	1
19	REC - PLUG MOULD NW SET 2	AL-29	N/A	B	1
20	REC - PLUG MOULD NE SET 1	AL-31	N/A	B	1
21	REC - PLUG MOULD NE SET 2	AL-33	N/A	B	1
22	REC - PLUG MOULD W SET 1	AL-35	N/A	B	1
23	REC - PLUG MOULD W SET 2	AL-37	N/A	B	1
24	REC - PLUG MOULD W SET 3	AL-39	N/A	B	1
25	REC - PLUG MOULD W SET 4	AL-41	N/A	B	1
26	POWER POLE #1	AL-43	N/A	B	1
27	REC FLOOR BOX	AL-53	N/A	B	1
28	WALL MOUNTED FANS	AL-55	N/A	A	1
29	REC FLOOR BOX	AL-57	N/A	B	1
30	REC - GONDOLA WEST SET 1	AL-85	N/A	B	1
31	REC - GONDOLA WEST SET 2	AL-87	N/A	B	1
32	REC - GONDOLA WEST SET 3	AL-89	N/A	B	1
33	REC - GONDOLA WEST SET 4	AL-91	N/A	B	1
34	REC - GONDOLA MIDDLE SET 1	AL-93	N/A	B	1
35	REC - GONDOLA MIDDLE SET 2	AL-95	N/A	B	1
36	REC - GONDOLA MIDDLE SET 3	AL-97	N/A	B	1
37	REC - GONDOLA MIDDLE SET 4	AL-99	N/A	B	1
38	REC - GONDOLA EAST SET 1	AL-101	N/A	B	1
39	REC - GONDOLA EAST SET 1	AL-103	N/A	B	1
40	REC - GONDOLA EAST SET 1	AL-105	N/A	B	1
41	REC - GONDOLA EAST SET 1	AL-107	N/A	B	1
42	EXHAUST FANS 1 & 2	AL-10	N/A	A	1
43	EBUH-1	AL-68	N/A	A	1
44	EBUH-2	AL-70	N/A	A	1
45	EBUH-3	AL-72	N/A	A	1
46	EBUH-4	AL-74	N/A	A	1
47	EBUH-5	AL-76	N/A	A	1
48	ISCUH-1	AL-80	N/A	A	1

CABINET REQUIREMENTS:
A. BASIS OF DESIGN IS AN GE RELAY PANEL SYSTEM. ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED BY BRAND.
B. ALL RELAYS TO BE RATED FOR 20A (MINIMUM) - NORMALLY CLOSED.
C. SEVEN DAY TIME CLOCK INCLUDING SKIP-A-DAY CAPABILITY.
D. NOVAR WILL PROGRAM THE GE LIGHTS/KEEP SOFTWARE AS PART OF THE COMMISSIONING PROCESS AND TO BE PART OF THE BMS SYSTEM.
E. INSTALL PHOTOCELL AS NEEDED FACING NORTH ON TOP OF THE ROOF.
F. REFER TO SHELL PACKAGE FOR OTHER EXTERIOR LIGHTING IN THE REAR AND NOT LOCATED HERE.
1. COORDINATE SCHEDULED ON/OFF WITH ZONES A,B,C,D,S

PANEL CP

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
REG 01	1	20	1	2	20	1	SPARE
REG 02	1	20	3	4	20	1	SPARE
REG 03	1	20	5	6	20	1	SPARE
REG 04	1	20	7	8	20	1	SPARE
REG 05	1	20	9	10	20	1	SYSTEMS 1
REG 06	1	20	11	12	20	1	SYSTEMS 2
REG 07	1	20	13	14	20	1	SPARE
BMS #1 - NOVAR PANEL	1	20	15	16	20	1	BMS #2 - NOVAR RELAY PANEL
BMS #3 - GE RELAY PANEL	1	20	17	18	20	1	DEDICATED QUAD - FRONT DESK
SPARE	1	20	19	20	20	1	SPARE
SPARE	1	20	21	22	20	1	SPARE
SPARE	1	20	23	24	20	1	SPARE

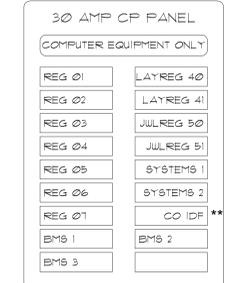
CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
REC - GONDOLA WEST SET 1	1	20	85	86	20	1	SPARE
REC - GONDOLA WEST SET 2	1	20	87	88	20	1	SPARE
REC - GONDOLA WEST SET 3	1	20	89	90	20	1	SPARE
REC - GONDOLA WEST SET 4	1	20	91	92	20	1	SPARE
REC - GONDOLA MIDDLE SET 1	1	20	93	94	20	1	SPARE
REC - GONDOLA MIDDLE SET 2	1	20	95	96	20	1	SPARE
REC - GONDOLA MIDDLE SET 3	1	20	97	98	20	1	SPARE
REC - GONDOLA MIDDLE SET 4	1	20	99	100	20	1	SPARE
REC - GONDOLA EAST SET 1	1	20	101	102	20	1	SPARE
REC - GONDOLA EAST SET 1	1	20	103	104	20	1	SPARE
REC - GONDOLA EAST SET 1	1	20	105	106	20	1	SPARE
REC - GONDOLA EAST SET 1	1	20	107	108	20	1	SPARE
SPARE	1	20	109	110	20	1	SPARE
SPARE	1	20	111	112	20	1	SPARE
SPARE	1	20	113	114	20	1	SPARE
SPARE	1	20	115	116	20	1	SPARE
PREPARED SPACE	1	20	117	118	20	1	PREPARED SPACE
PREPARED SPACE	1	20	119	120	20	1	PREPARED SPACE
PREPARED SPACE	1	20	121	122	20	1	PREPARED SPACE
PREPARED SPACE	1	20	123	124	20	1	PREPARED SPACE
PREPARED SPACE	1	20	125	126	20	1	PREPARED SPACE

REAR DOOR ALARM CONTROL

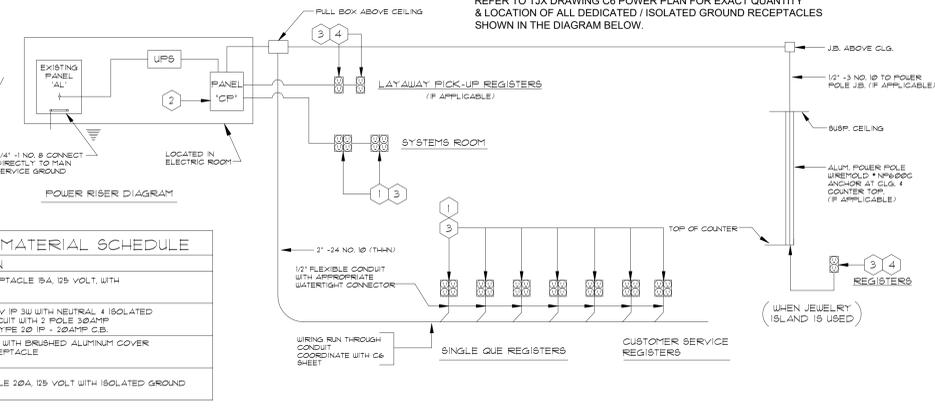
A. FURNISH AND INSTALL A REAR DOOR ALARM CONTROL SYSTEM AT THE STOCK ROOM DOOR TO THE EXTERIOR (13'-0" X 6'-8"). PROVIDE 120 VOLT CIRCUIT (UNSWITCHED) AND A LOW VOLTAGE TRANSFORMER (24V/50 VA) UL APPROVED, ABOVE THE HEAD OF THE DOOR (WITHIN 10'-0") ALARM SHALL BE ACTIVATED BY DOOR CONTACTORS WHEN DOOR IS OPEN POSITION AND SHALL PRODUCE A CONTINUOUS CHIME TONE.
B. DOOR ALARM SYSTEM SHALL BE WHEELLOCK 38G-V29 FROM GRAINGER INDUSTRIES MODEL #CH1093 WITH WEATHERPROOF PUSH BUTTON.

** CIRCUIT NEEDED ONLY WHEN REQUESTED BY SYSTEMS FOR REMOTE COMPUTER EQUIPMENT CONNECTION AND IS OUTLET.

TYPICAL CP PANEL
NOT TO SCALE



NOTE: REFER TO T.J.X. DRAWING C6 POWER PLAN FOR EXACT QUANTITY & LOCATION OF ALL DEDICATED / ISOLATED GROUND RECEPTACLES SHOWN IN THE DIAGRAM BELOW.



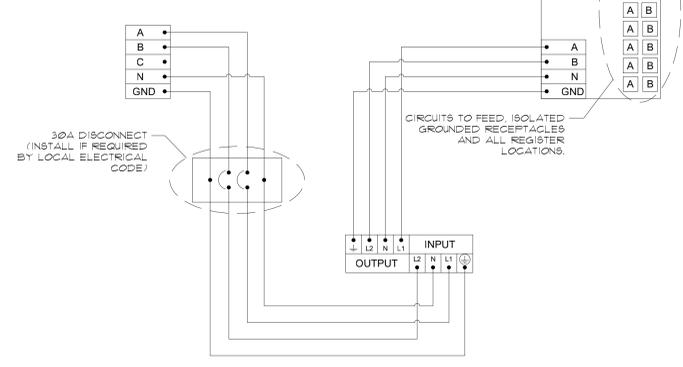
ELECTRIC MATERIAL SCHEDULE

ITEM	DESCRIPTION
1	QUADRUPEX RECEPTACLE 5A, 125 VOLT, WITH ISOLATED GROUND
2	PANEL 'CP' 120/208V 1P 3W WITH NEUTRAL 1 ISOLATED GROUND GE 20 CIRCUIT WITH 2 POLES 30AMP MAIN C.B. BOLTON TYPE 20 1P - 20AMP C.B.
3	DOUBLE GANG BOX WITH BRUSHED ALUMINUM COVER PLATE 10 BUT RECEPTACLE
4	DUPLEX RECEPTACLE 20A, 125 VOLT WITH ISOLATED GROUND

- NOTES**
- T.J.X. SHALL BRING IN AN OUTSIDE CONTRACTOR TO SUPPLY, RUN AND TERMINATE THE LOW VOLTAGE COMMUNICATION WIRING. THIS INCLUDES THE LOW VOLTAGE WIRING FOR REGISTERS, POS AS WELL AS THE CABLE FOR THE TIME CLOCK, ACS AND MANAGERS OFFICE TO LAYALWAY CABLES.
 - CABLES TO BE RUN IN ONE PIECE FROM REGISTER TO REGISTER.
 - ALL LOW VOLTAGE WIRING TO BE INSTALLED ABOVE HUNG CLG. AND SHALL BE KEPT A MINIMUM OF 5'-0" FROM FLUORESCENT LIGHTING FIXTURES.
 - CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND PULL STRINGS.
- NOTES**
- CONVENIENCE OUTLETS AT SERVICE DESK SHALL NOT BE CONNECTED TO CP PANEL.
 - POS, A.C. WIRING TEST FOR INSULATED-ISOLATED GROUND.
 - TO TEST DISCONNECT I.G. GROUND AT MAIN ENTRANCE AND CHECK ALL OUTLETS FROM.
 - GROUND TO BOX-----NO CONTINUITY-NO VOLTAGE GROUND TO NEUTRAL-----NO CONTINUITY-NO VOLTAGE GROUND TO HOT-----NO VOLTAGE
 - WITH I.G. GROUND HOOKED BACK UP AT MAIN PANEL I.G. GROUND TO BE TAGGED OR LABELED AT MAIN ENTRANCE.
 - GROUND TO BOX-----NO CONTINUITY GROUND TO NEUTRAL-----CONTINUITY-0 VOLTAGE GROUND TO HOT-----120 VOLTS
- NOTES**
- EXACT NUMBER AND FINAL LOCATIONS OF ALL ITEMS SHOWN INCLUDING EXACT METHOD OF INSTALLING CONDUIT 4 WIRE SHALL BE DETERMINED IN THE FIELD WITH T.J.X. REPRESENTATIVE.
 - ALL WIRING SHALL BE TYPE "THU" OR "THIN" COPPER RUN IN CONDUIT.
 - PROVIDE A SEPARATE NEUTRAL AND GROUND CONDUCTOR FOR EACH 120 VOLT CIRCUIT PROVIDED FROM PANEL 'CP'. PANEL 'CP' SHALL BE USED TO SUPPLY ONLY REGISTER EQUIP.
 - ALL GROUND CONNECTORS SHALL BE ISOLATED (PURE GROUND ONLY) AND SHALL NOT BE GROUNDED TO ANY METAL ENCLOSURES.
 - THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS, RECEPTACLES, SWITCHES, ETC., TO IDENTIFY VOLTAGES AND FUNCTION.
 - PROVIDE RED NAMEPLATE STENCIL AS FOLLOWS: FOR COMPUTER EQUIPMENT ONLY - NOT FOR GENERAL USE!

P.O.S. CASH REGISTER 120 VOLT WIRING
NOT TO SCALE

Liebert GXT4 6kVA UPS and CP Panel for TJX Stores



TJX LIEBERT GXT4 6kva UPS installation guidelines

LIEBERT CONTACT INFORMATION
LIEBERT TECHNICAL SUPPORT
PHONE: 800 - 222 - 5877 Option #1 Hardware Support
EMAIL: liebert.ups@emerson.com

GENERAL INFORMATION:
G.C.s or Electrical Contractors are not required to purchase the UPS. TJX provides all units from a third party location; DO NOT CALL LIEBERT WITH DELIVERY CONCERNS.
The units are a Liebert GXT3 6kva tower UPS - 16.9" (H) x 6.8" (W) x 26.1" (D) and weigh 132 pounds total. The units arrive in three separate boxes via FEDEX.
Wiring diagram is included on the TJX criteria, sheet C7.
Installation does NOT require Liebert to be onsite.

INSTALLATION:
Electrical Contractor responsibilities:
Unpack/set/place the UPS. Placement must conform to local and national codes.
UPS ships in three boxes, UPS, Internal Battery pack and SNMP card. Please refer to the UPS Manual, ships with the unit, for proper installation. Starts on Page 12.
Terminate wiring at input and output of UPS.
Ensure distribution wiring, CP Panel, and disconnect are correctly installed.

START UP
Electrical Contractor responsibilities:
Unit must be turned on and taken out of BYPASS after installation is complete.
Confirm the UPS is the only source feeding the CP Panel.
Call LIEBERT at the above number to troubleshoot any issues with Start up.
Provide support for LIEBERT if wiring issues arise during Start up.
After UPS is turned on and taken out of BYPASS without any issues, the TJX PM must be notified that UPS installation is complete and the UPS is functional without issues.

- NOTES:**
- LIEBERT RECOMMENDED WIRE SIZE, INCLUDING GROUND WIRE, # 15" COPPER WIRE IS 10ALWG (4mm), MAXIMUM WIRE ACCEPTED BY TERMINAL BLOCK IS 8ALWG (6mm).
 - LIEBERT RECOMMENDS INSTALLING A UL489 APPROVED BREAKER UPSTREAM OF UNIT.
 - THE INSTALLER MUST PROVIDE CIRCUIT BREAKER PROTECTION ACCORDING TO LOCAL CODES. THE UTILITY DISCONNECT SHOULD BE WITHIN SIGHT OF THE UPS OR HAVE AN APPROPRIATE LOCK OUT. MAINTAIN SERVICE SPACE AROUND THE UPS OR USE FLEXIBLE CONDUIT.
 - THE INSTALLER MUST PROVIDE OUTPUT DISTRIBUTION PANELS, CIRCUIT BREAKER PROTECTION, OR EMERGENCY DISCONNECTS ACCORDING TO LOCAL CODES.
 - OUTPUT CIRCUITS MUST NOT SHARE A COMMON.
 - CP PANEL WILL SERVICE ALL REGISTER POWER BLADE SERVER, IDF, AND BMS POWER ONLY. NO OTHER CIRCUIT TO BE FED FROM CP.

BMS 1	NOVAR PANEL
BMS 2	NOVAR RELAY PANEL
BMS 3	GE RELAY PANEL

*** ALL DELIVERY QUESTIONS SHOULD BE DIRECTED TO TJX SYSTEMS IMPLEMENTATION AT 508-475-8105

UPS DIAGRAM

PANEL AH

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
LTG - EXIT SIGNS	1	20	1	2	30	3	TRASH COMPACTOR
LTG - EMERGENCY	1	20	3	4	20	1	SPARE
LTG - PROCESSING, LP RM	1	20	5	6	6	1	SPARE
LTG - NORTH EASTERN ROOMS	1	20	7	8	15	1	ECUH-1 (UNIT HEATER)
LTG - SALES NORTH HALF #1	1	20	9	10	10	1	PREPARED SPACE
LTG - SALES NORTH HALF #2	1	20	11	12	20	1	PREPARED SPACE
LTG - SALES SOUTH HALF #1	1	20	13	14	1	1	PREPARED SPACE
LTG - SALES SOUTH HALF #2, WEST	1	20	15	16	1	1	PREPARED SPACE
LTG - SALES NIGHT LIGHTS	1	20	17	18	1	1	PREPARED SPACE
RTU-1	3	50	19	20	35	3	RTU-5
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
RTU-2	3	35	25	26	20	3	RTU-6
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
RTU-3	3	35	37	38	70	3	RTU-7
			39	40			
			41	42			

PANEL AL

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
(E)LTG - BUILDING SIGNAGE	1	20	1	2	20	1	OVERHEAD DOOR 1 (E)
(E)LTG - BUILDING SIGNAGE	1	20	3	4	20	1	OVERHEAD DOOR 2 (E)
SPARE	1	20	5	6	20	1	FIRE ALARM CONTROL PANEL (FACP)
LTG - SOUTH WEST TRACK	1	20	7	8	15	1	LTG CNTRL PNL (LCP-1)
LTG - NORTH WEST TRACK	1	20	9	10	15	1	EF-1 & EF-2
LTG - NORTH TRACK	1	20	11	12	20	1	SPARE
LTG - EAST TRACK	1	20	13	14	20	1	ROOF RECEPTACLE NORTH
LTG - SOUTH EAST TRACK	1	20	15	16	20	1	ROOF RECEPTACLE SOUTH
REC - RUG AREA & STORAGE	1	20	17	18	20	1	REC - HALL DRINKING FOUNTAIN
REC - WEST HALF COLUMN	1	20	19	20	20	1	REC - JANITOR
REC - EAST HALF COLUMN	1	20	21	22	20	1	REC - LOUNGE VENDING #1
REC - DUPLEX FLOOR BOX	1	20	23	24	20	1	REC - LOUNGE VENDING #2
REC - QUAD FLOOR BOX	1	20	25	26	20	1	REC - DED. OUTLET NORTH WALL #1
REC - PLUG MOULD NW SET 1	1	20	27	28	20	1	REC - DED. OUTLET NORTH WALL #2
REC - PLUG MOULD NW SET 2	1	20	29	30	20	1	REC - DED. OUTLET NORTH WALL #3
REC - PLUG MOULD NE SET 1	1	20	31	32	20	1	REC - GENERAL + TIME CLK
REC - PLUG MOULD NE SET 2	1	20	33	34	20	1	SPARE
REC - PLUG MOULD W SET 1	1	20	35	36	20	1	SPARE
REC - PLUG MOULD W SET 2	1	20	37	38	20	1	SPARE
REC - PLUG MOULD W SET 3	1	20	39	40	20	1	REC - SOUTH WALL HORIZONTAL
REC - PLUG MOULD W SET 4	1	20	41	42	20	1	REC - CASH HALL ABOVE CEILING
POWER POLE #1	1	20	43	44	20	1	REC - CASH HALL - QUAD
REC - LP OFFICE	1	20	45	46	20	1	REC - CASH HALL PLUS MOULD
REC - LP OFFICE PLUG MOULD	1	20	47	48	20	1	REC - CASH - ABOVE CEILING QUAD
REC - PROCESS RM - DED. QUAD	1	20	49	50	20	1	REC - GEN. CASH & MGR ROOM
REC - PROC. RM - DOCK LTG/GEN	1	20	51	52	20	1	REC - CASH - WEST WALL
REC FLOOR BOX	1	20	53	54	20	1	REC - MGR ROOM - NORTH WALL
REC - WALL MNTD CIRC. FANS	1	20	55	56	20	1	REC - MGR ROOM - WEST WALL
REC - FLOOR BOX	1	20	57	58	20	1	VESTIBULE INTERIOR DOOR
REC - ROOF TOP UNITS 1-4	1	20	59	60	20	1	VESTIBULE EXTERIOR DOOR
REC - ROOF TOP UNITS 5-7	1	20	61	62	20	1	REC - (FUTURE) VESTIBULE CART
ELECTRICAL ROOM SECURITY	1	20	63	64	20	1	REC - QUAD VESTIBULE CEILING
REC							



CONDUIT AND WIRE

- ARROWS INDICATE CONDUIT AND WIRE HOME RUN(S) TO PANEL WITH 2-#12 AWG CONDUCTORS UNLESS NOTED OR OTHERWISE REQUIRED.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
- TELEPHONE CONDUIT
- LOW VOLTAGE CONDUIT AND WIRING

LIGHTING

- BATTERY OPERATED EMERGENCY LIGHT (WALL MOUNTED)
- SURFACE/RECESSED LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT STRIP FIXTURE
- SHADING DENOTES EMERGENCY FIXTURE
- POLE MOUNTED LIGHT FIXTURE
- EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN
- EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN
- LIGHTING SWITCHES-SINGLE POLE, 3-WAY, 4-WAY, KEY, LOW VOLTAGE, PILOT LIGHT
- DIMMER WITH SINGLE POLE SWITCH
- DIMMER WITH THREE WAY SWITCH (WATTAGE NOTED)
- WALL MOUNTED MOTION SENSOR
- DENOTES A WALL MOUNTED FIXTURE

WIRING DEVICES

- DUPLEX RECEPTACLE
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DUPLEX RECEPTACLE WITH ISOLATED GROUND (SINGLE AND FOURPLEX SIMILAR)
- FOURPLEX RECEPTACLE
- SINGLE RECEPTACLE
- CEILING MOUNTED RECEPTACLE
- MULTI-SERVICE FLOOR BOX
- FLOOR BOX W/DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE W/NEMA CONFIGURATION AS NOTED
- CLOCK RECEPTACLE

COMMUNICATIONS

- TELEPHONE OUTLET
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DATA OUTLET
- TELEPHONE/DATA OUTLET
- FLOOR BOX WITH COMMUNICATIONS OUTLET
- TELEVISION ANTENNA OUTLET

PUBLIC ADDRESS

- MICROPHONE OUTLET
- SPEAKER, ('H' DENOTES HORN TYPE)
- SPEAKER VOLUME CONTROL
- SPEAKER CONDUIT AND WIRING
- PUBLIC ADDRESS AMPLIFIER AND CABINET
- BUZZER
- BELL
- INTERCOM OUTLET
- INTERCOM OUTLET - MASTER
- CLOCK SYSTEM RECEPTACLE WITH SINGLE FACE ('D' DENOTES DOUBLE FACE)

POWER DEVICE AND CONTROLS

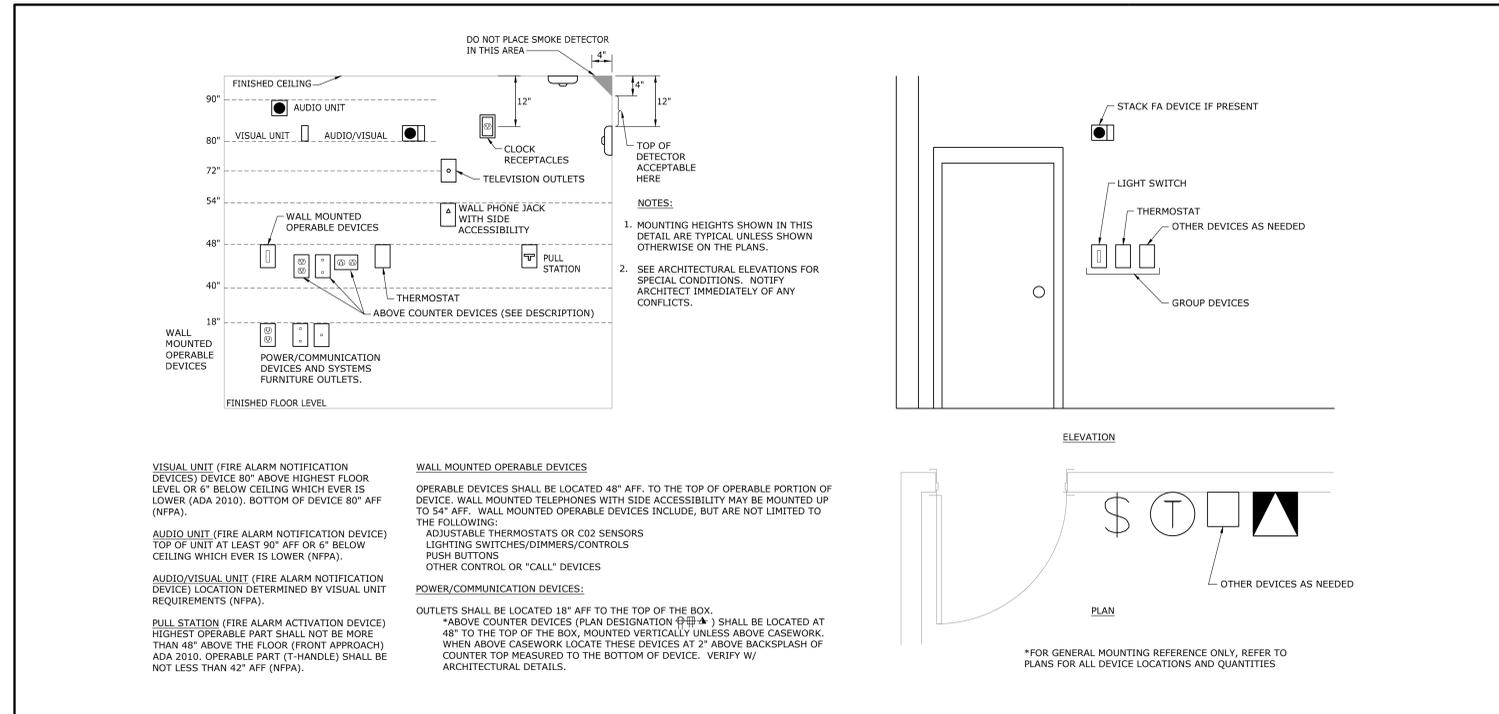
- THERMOSTAT
- DISCONNECT SWITCH, 30A-3P, NON-FUSED EXCEPT AS NOTED
- MANUAL MOTOR STARTER
- MAGNETIC MOTOR STARTER
- COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
- MOTOR
- PANELBOARD (SEE ONE-LINE)
- DISTRIBUTION PANELBOARD
- CONTACTOR
- AUTOMATIC TRANSFER SWITCH
- PHOTOCELL
- JUNCTION BOX
- PUSHBUTTON
- TRANSFORMER

FIRE ALARM

- MANUAL PULL STATION
- PHOTOELECTRIC DETECTOR ('D' DENOTES IN DUCT) ('B' DENOTES BEAM-TYPE) ('R' DENOTES IN RETURN AIR PLENUM)
- FIRE ALARM STROBE LIGHT
- FIRE HORN, ('L' DENOTES COMBINATION HORN AND VISUAL FIRE LIGHT)

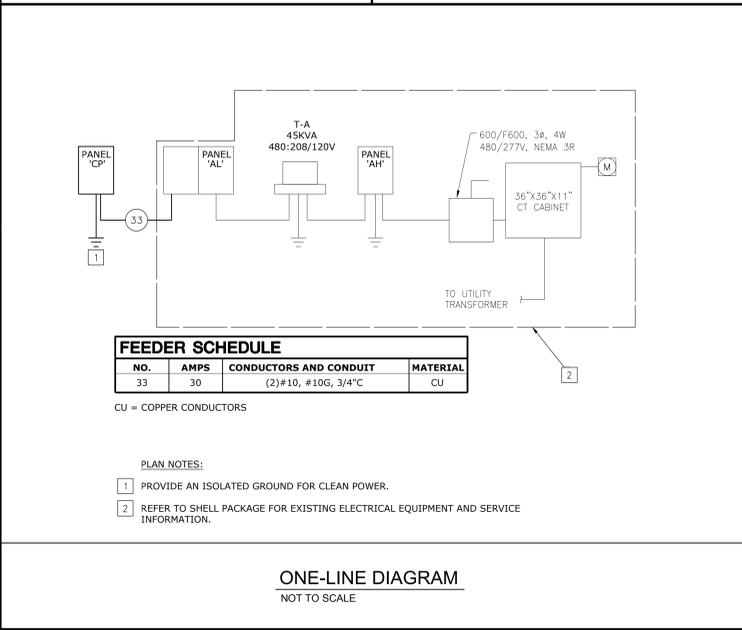
ELECTRICAL SYMBOLS AND ABBREVIATIONS

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."



WALL MOUNTED DEVICES: MOUNTING HEIGHTS
NO SCALE

<p>NOTE: MAXIMUM OF 5 FANS PER CIRCUIT. EACH FAN CONTROLLED BY A THER SWITCH MOUNTED AT 4'-0" AFF. FAN SPEC: TPI CAGU-24W THER SWITCH SPEC: TORQ C006H FAN AND THER SWITCH PURCHASED BY G.C.</p>	<p>Box - B2431 Cover - 63025 Flange - 6B30B3</p> <p>NOTE: ALL CIRCUITS CONTROLLED BY NOVARE ENERGY MGMT SYSTEM ON CUSTOMER LIGHTING.</p>	<p>Box - B2432 Cover - 63025 (x2) Flange - 6B30B4</p> <p>NOTE: ALL CIRCUITS CONTROLLED BY NOVARE ENERGY MGMT SYSTEM ON CUSTOMER LIGHTING.</p>
<p>ELECTRICAL ELEVATION @ WALL MOUNTED CIRCULATORS NOT TO SCALE</p>	<p>SINGLE HUBBELL FLOOR BOX ASSEMBLY DETAIL NOT TO SCALE</p>	<p>DOUBLE HUBBELL FLOOR BOX ASSEMBLY DETAIL NOT TO SCALE</p>



HomeGoods
Tenant Improvements
Summit Orchards Lot 4B
492 NW Chipman Rd
Lee's Summit, MO 64086

Revisions:

▲ Add-01 City Comments	11/18/19
▲ Add-02 Tenant Comments	12/18/19

Project #: 180902-02

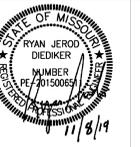
Construction / Permit Set
November 8, 2019

ELECTRICAL SYMBOLS, ABBREVIATIONS & DETAILS

E5

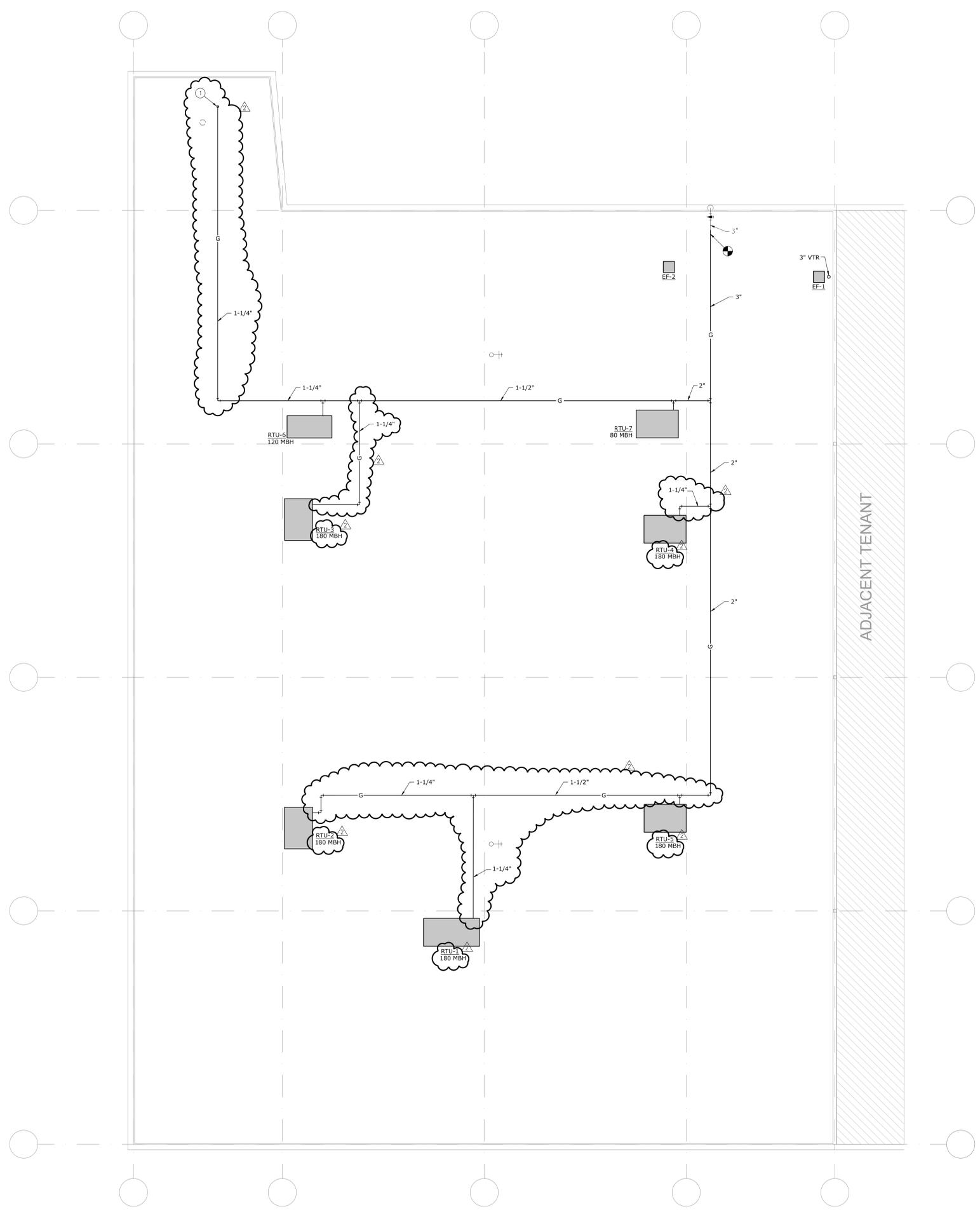
Summit Orchards Site, Lee's Summit, MO
 Project Location: 492 NW Chipman Rd
 Project Name: HomeGoods
 Date: 12/18/19
 Drawn By: Blee
 Checked By: Blee
 Project #: 180902-02

PROJECT NAME: PROJECT LOCATION: NAME:
 LAST CORRECTION: DATE: TIME:
 PLOTTED BY: DATE: TIME:



- GENERAL NOTES:**
1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
 2. CAREFULLY COORDINATE ROUTING OF SERVICES WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES.
 3. COORDINATE INSTALLATION AND PENETRATIONS OF ALL NEW SERVICES WITH STRUCTURAL PRIOR TO CUTTING.
 4. EXTEND ALL CONDENSATE DRAINS TO NEAREST ROOF DRAIN.
 5. PAINT ALL PVC PIPING ON ROOF TO PROVIDE FOR UV PROTECTION. PAINT NATURAL GAS PIPING ON ROOF FOR PROTECTION FROM WEATHER. PAINT COLOR PER ARCHITECT DIRECTION.
 6. ALL SERVICES SHOWN HALF TONE ARE EXISTING.

- PLUMBING NOTES:**
- 1 1-1/4" GAS PIPE DOWN TO GCUH-1.



ADJACENT TENANT

ROOF PLAN - PLUMBING
SCALE: 1/8" = 1' - 0"

PROJECT NAME: Summit Orchards, Site 200 - Lee's Summit, MO
 PROJECT LOCATION: 492 NW Chipman Rd, Lee's Summit, MO 64086
 LAST CORRECTION BY: DATE • TIME: P. Paro, Friday, December 13, 2019 2:47:50 PM
 PLOTTED BY: DATE • TIME: P. Paro, Wednesday, December 18, 2019 3:49:59 PM
 PROJECT NUMBER: 1923000

Revisions:	
△ Add-01 City Comments	11/18/19
△ Add-02 Tenant Comments	12/18/19

Project #: 190902-02

Construction / Permit Set
November 8, 2019

ROOF PLAN - PLUMBING

