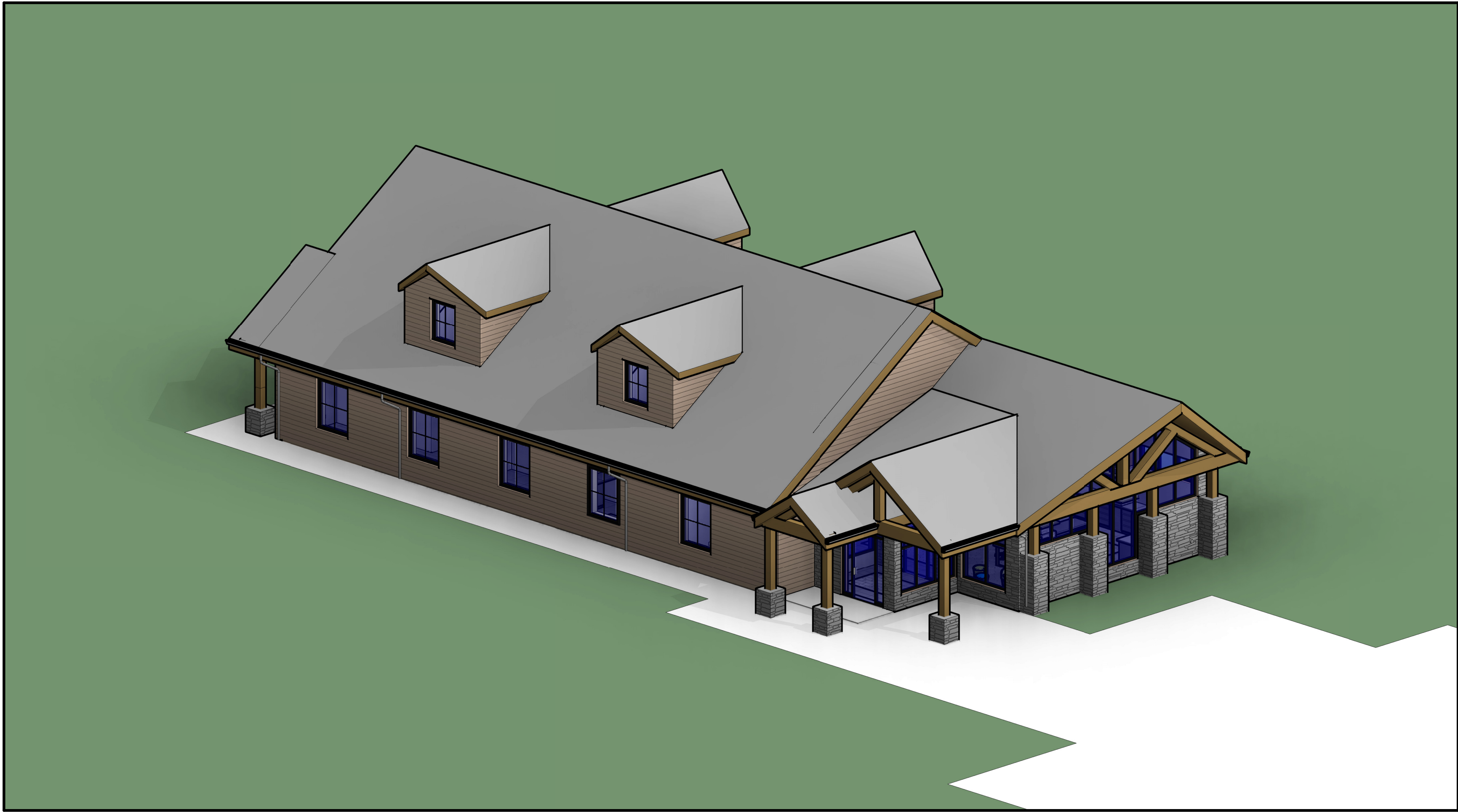


DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430



PROJECT TEAM

ARCHITECT SEDGEWICK + FERWEDA ARCHITECTS  
CONTACT: BRIANNA FULLER, AIA  
410 EAST COURT STREET  
FLINT, MICHIGAN 48503  
T: 810-238-9647  
BRIANNA@SFARCH.US

OWNER JOSEPH M. LEPPEK O.D.  
16528 HILAND TRAIL  
FLINT, MICHIGAN 48451  
810-341-3900  
LEPPEK.JOSEPH@GMAIL.COM

BUILDING DATA

TOTAL GROSS BUILDING AREA: 4,907 SQ. FT.  
USE GROUP: B - BUSINESS  
BUILDING TYPE: 3B  
OCCUPANCY: 4,907/100 = 49  
REQUIRED EXITS: 2

GENERAL PROJECT AND SITE

PARCEL ID:  
LOT SIZE: 0.6 ACRES  
PARCEL ZONING: GBD - GENERAL BUSINESS DISTRICT  
SETBACKS:  
FRONT: 40'  
REAR: 25'  
SIDE: MINIMUM 10' COMBINED 25'  
EASEMENTS: NONE

BUILDING CODES

- BUILDING CODES TO REFERENCE  
(CHECK ALL TO BE USED)
- ☒ MICHIGAN BUILDING CODE 2015 EDITION
  - ☐ MICHIGAN RESIDENTIAL BUILDING CODE 2015 EDITION
  - ☐ MICHIGAN REHABILITATION CODE 2015 EDITION - LEVEL 2
  - ☒ MECHANICAL - MICHIGAN MECHANICAL CODE 2015 EDITION
  - ☒ PLUMBING - MICHIGAN PLUMBING CODE 2015 EDITION
  - ☒ ELECTRICAL - NATIONAL ELECTRICAL CODE 2017 EDITION
  - ☒ MICHIGAN ENERGY CODE - ASHRAE 90.1-2013
  - ☒ NFPA 101 LIFE SAFETY CODE 2015 EDITION

DRAWING INDEX		
SHEET NO.	SHEET NAME	CURRENT REVISION
A0.0	Cover Page	1
C1.0	Topographic Survey	
C1.1	Site Layout Plan	
C1.2	Site Grading & Erosion Plan	
C1.3	Site Utility Plan	
C1.4	Site Details	
C1.5	Site Utility Details	
L100	Landscape Plan	
A0.1	General Notes	
A2.0	Foundation Plan	1
A2.1	Proposed First Floor Plan	1
A2.2	Proposed Second Floor Plan	1
A2.3	Reflected Ceiling Plans	1
A2.4	Roof Framing Plans	1
A2.5	Bldg Framing Sections	1
A2.6	Roof Plan	1
A3.0	Exterior Elevations	
A4.0	Building Sections	1
A5.0	Interior Elevations	
A5.1	Interior Elevations	
A5.2	Interior Elevations	
A6.1	Finish Plans	1
A8.0	Details	1
P1.0	Plumbing Plans	1
M1.0	Mechanical Plans	1
M1.1	Mechanical Details	1
E1.0	Electrical Plans	1
E2.0	Lighting Plans	1

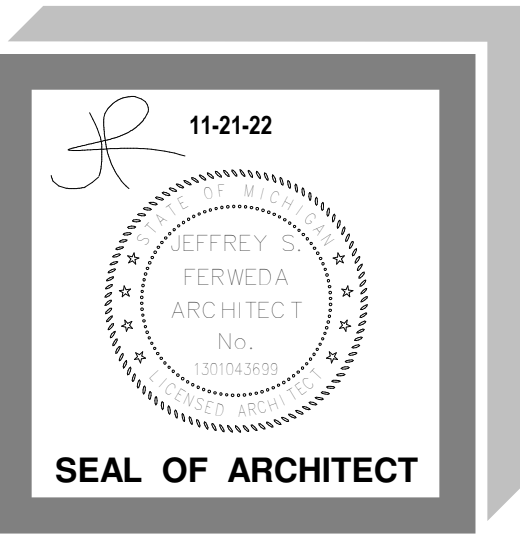
GENERAL NOTES

1. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ANY WORK.
3. ALL WORK SHALL CONFORM TO ALL GOVERNING CODES AND REGULATIONS.

KEY TO DIMENSIONING:  
DIMENSIONS SHOWN ARE FROM ROUGH STUD FACE TO ROUGH STUD FACE, ROUGH FACE TO COLUMN CENTERLINE, AND COLUMN CENTERLINE TO COLUMN CENTERLINE, UNLESS NOTED OTHERWISE.

OWNERSHIP OF DRAWINGS

ALL PLANS, DRAWINGS, AND SPECIFICATIONS (THE DOCUMENTS) ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY WERE MADE IS EXECUTED OR NOT. OWNER SHALL NOT USE THE DOCUMENTS ON OTHER PROJECTS, FOR EXTENSIONS OR ADDITIONS TO THE PROJECT, OR FOR THE COMPLETION OF THE PROJECT BY OTHER EXCEPT IN AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE DESIGNER. THE OWNER SHALL HOLD THE ARCHITECT HARMLESS FROM ALL CLAIMS, ACTIONS, CAUSE OF ACTIONS, LIABILITY, LOSSES, DAMAGES, COST AND EXPENSE, INCLUDING ATTORNEY'S FEES AND COSTS ARISING FROM SUCH UNAUTHORIZED USE. REPRODUCTION COPIES CAN BE PROVIDED AT THE OWNERS REQUEST AND EXPENSE.



ARCHITECT  
SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS	
11/21/22	Revision 1
Date	Description

Project  
DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430  
Drawing  
Cover Page

DRAWN BY: BRF  
CHECKED BY: JSF  
PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE 1/8" = 1'-0"  
SHEET NUMBER  
**A0.0**

GROSS BUILDING AREAS

- FIRST FLOOR PUBLIC 2,388 SF
  - STAFF 1,150 SF
  - STORAGE & ADDITIONAL OPEN OFFICE AREA 1,369 SF
- TOTAL: 4,907 SF

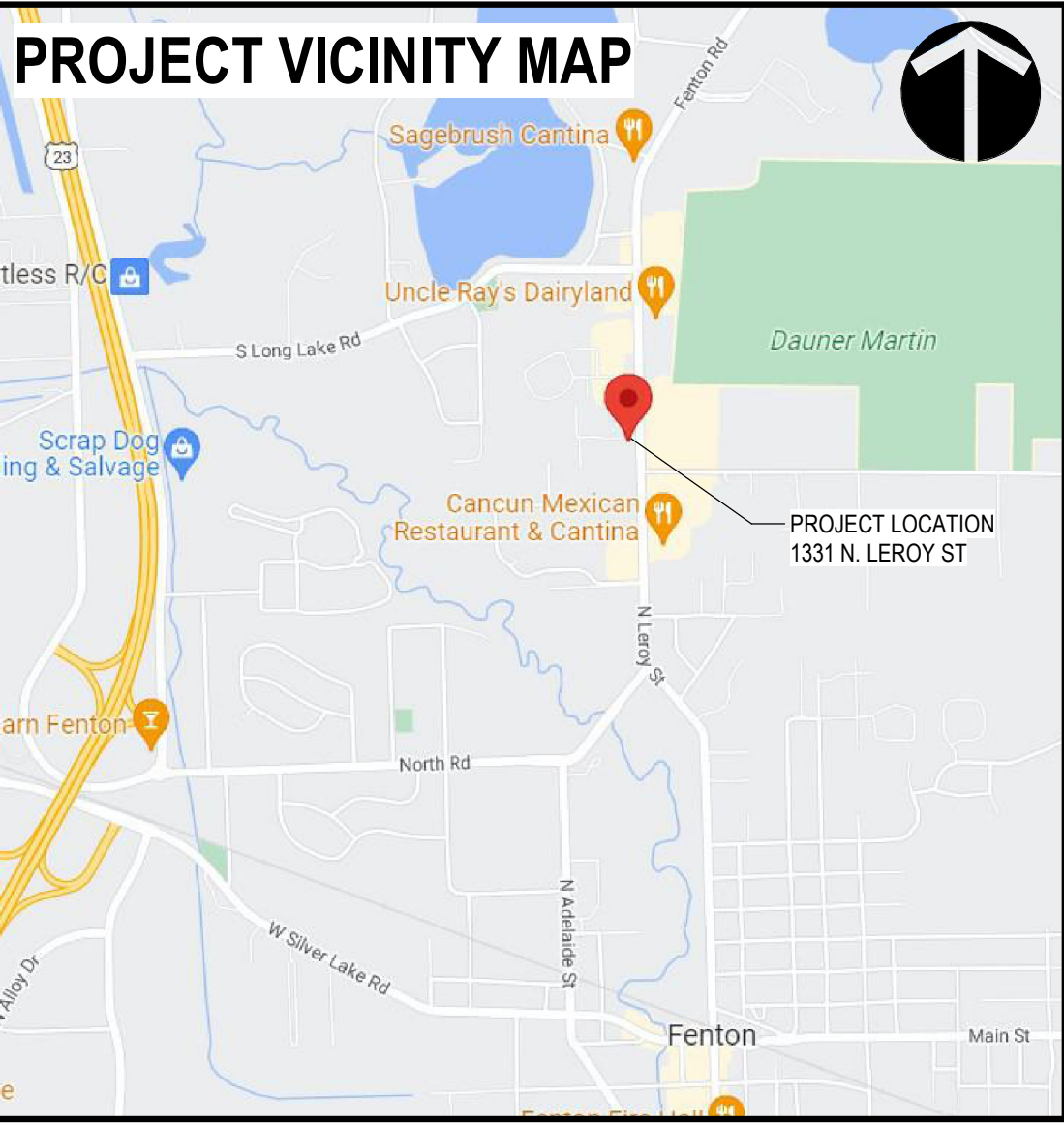




Diagram illustrating the components and layers of a tree planting pit:

- REMOVE BALL RAP AT TOP OF BALL
- 4" STONE
- 3" SAUCER
- PLANTING SOIL MIX  
TOPSOIL & PEAT  
MOSS 3:1 RATIO BY  
VOLUME IN 8" LAYERS  
- WATER EACH  
LAYER.
- APPROVED TREE WRAP,  
GRADE TO BOTTOM  
BRANCHES
- 6" MIN
- 12" MIN
- COMPACTED SUBSOIL  
(SCAFFRY TO 4" DEEP)

1/4" FT.

4"

BUILDING OR CURBING  
SEE PLAN

EDGING, WALK  
OR CURBING,  
SEE PLAN

VARIES - SEE PLAN

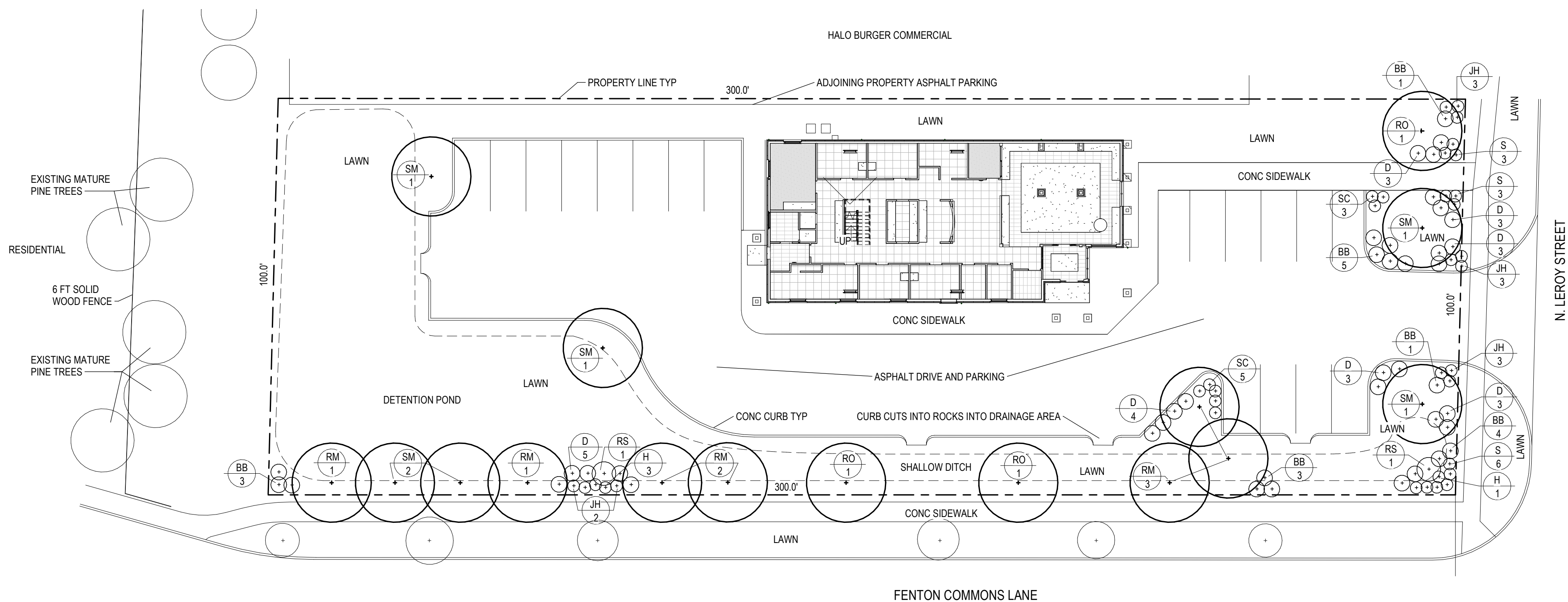
Diagram illustrating the construction of a raised garden bed. The layers and dimensions are as follows:

- REMOVE BALL RAP AT TOP OF BALL** (Pointing to the top of the raised bed structure)
- 4" STONE** (Pointing to the top layer of the raised bed structure)
- 3" SAUCER** (Pointing to the layer below the stone)
- PLANTING SOIL MIX TOPSOIL & PEAT MOSS 3:1 RATIO BY VOLUME IN 6" LAYERS - WATER EACH LAYER.** (Pointing to the soil layers within the bed)
- 2'-0" ± BERM** (Pointing to the raised edge of the bed)
- 6" MIN** (Pointing to the height of the raised bed structure)
- 12" MIN** (Pointing to the width of the raised bed structure)
- COMPACTED SUB-SOIL (SCARIFY TO 4" DEEP)** (Pointing to the ground beneath the bed)

6	RM RED MAPLE	ACER RUBRUM 'AUTUMN GLAZE'	4" CALIPER	BB
7	SM SUGAR MAPLE	ACER SACHARUM 'LEGACY'	4" CALIPER	BB
3	RO RED OAK	QUERCUS RUBRA	4" CALIPER	BB
2	TOTAL TOPGROVE TREES	10 GREENLEAF - 2 PARKING AREA 15 REQUIRED	10 PROVIDED	
2	RS ROSE OF SHARON	HIBISCUS SYRIACUS 'HELENE'	1 1/2" CALIPER	CONTAINER
17	BB BURNING BUSH	EUONYMUS ALBA 'COMPACTUS'	24" CONTAINER	
4	D DOGWOOD	CORNUS SERICEA 'ISANT'	18" CONTAINER	
3	S SPIRAEA	SPIRAEA JAPONICA 'SHROBANA'	18" CONTAINER	
1	H HANSPERENIA	ILEX CRENATA 'HELLEN'	18" CONTAINER	
8	SC SHRUBBY CINQUEFOIL	POTENTILLA FRUTICOSA 'MID JAPANESE'	18" CONTAINER	
4	H SMOOTH HYDRANGEA	HYDRANGEA ARBORESCENS 'ANNABELLE'	18" CONTAINER	
	TOTAL UPRIGHT SHRUBS	77 GREENLEAF + 0 PARKING AREA 77 REQUIRED	78 PROVIDED	

NOTE: WE ARE REQUESTING A VARIANCE TO NOT PROVIDE WEST SIDE BUFFER ZONE PLANTINGS DUE TO THE PROXIMITY TO THE RETENTION POND AND THERE IS PRESENTLY ON THE NEIGHBORS PROPERTY A 6 FT TALL SOLID WOOD FENCE AND MATURE PINE TREES THAT SHIELD THE VIEW

NOTE: WE ARE REQUESTING A VARIANCE TO NOT PROVIDE WEST SIDE BUFFER ZONE PLANTINGS DUE TO THE PROXIMITY TO THE RETENTION POND AND THERE IS PRESENTLY ON THE NEIGHBORS PROPERTY A 6 FT TALL SOLID WOOD FENCE AND MATURE PINE TREES THAT SHIELD THE VIEW



ALL SHRUBS, TREES, AND OTHER PLANTS CONFORMING TO ANSI Z60.1 RECOMMENDATIONS.  
GUARANTEE ALL SHRUBS AND TREES AND PLANTS FOR ON (1) YEAR. LAWN ACCEPTANCE WILL  
BE AFTER SECOND MOWING.



NOTE:  
THIS SHEET IS ONLY FOR USE BY THE LANDSCAPE  
CONTRACTOR, SEE CIVIL ENGINEERS DRAWINGS FOR  
FULL SITE DESIGN INFORMATION

Date	Description

Project  
DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

## Drawing

# Landscape Plan

SCALE **As indicated**

SHEET NUMBER

# L100

# ARCHITECT

**SEDGEWICK + FERWEDA ARCHITECTS**

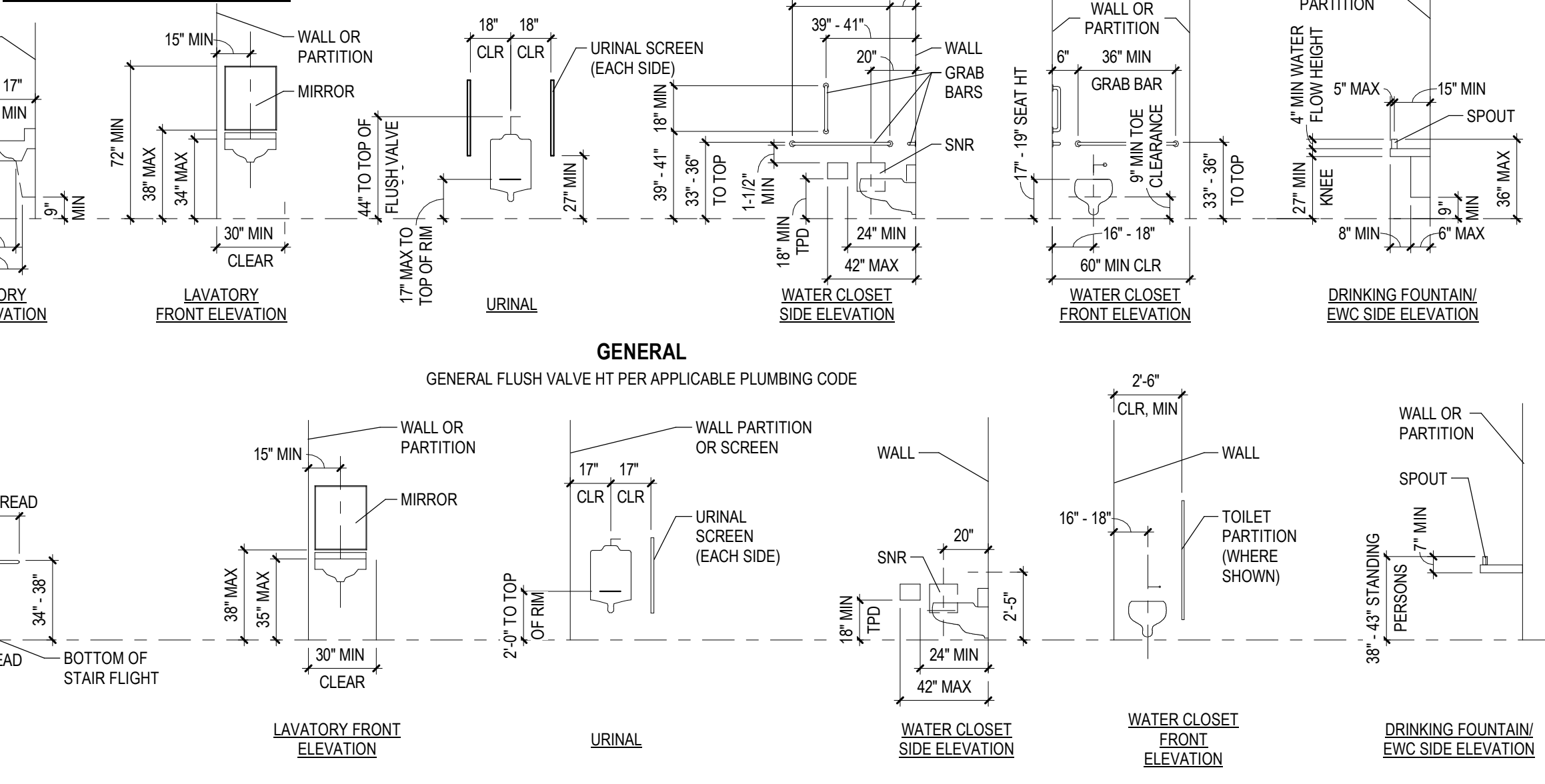
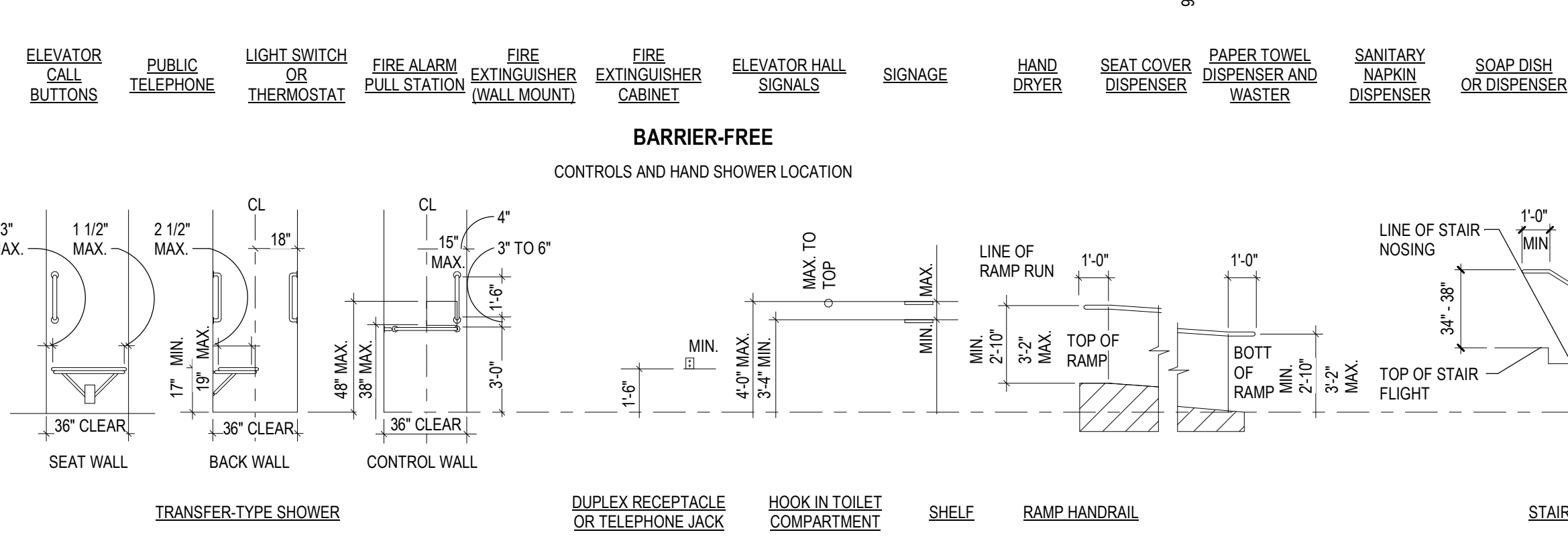
410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900

-9647 | FAX: 810-238-4900  
www.sfarch.us

Good clients + Good design + Great architecture

SEAL OF ARCHITECT





NOTE: DRAWING TITLE MAY NOT APPEAR ON LARGE SCALE DETAIL DRAWINGS

DRAWING NUMBER

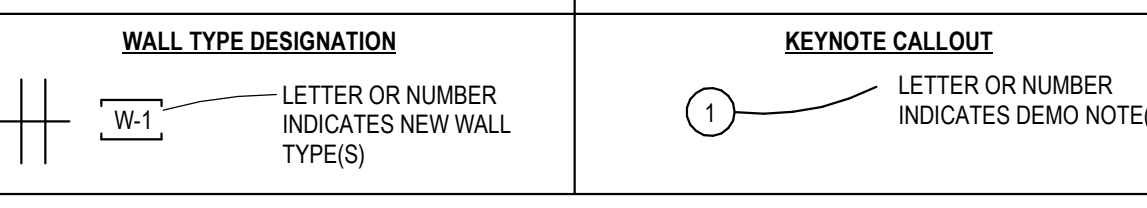
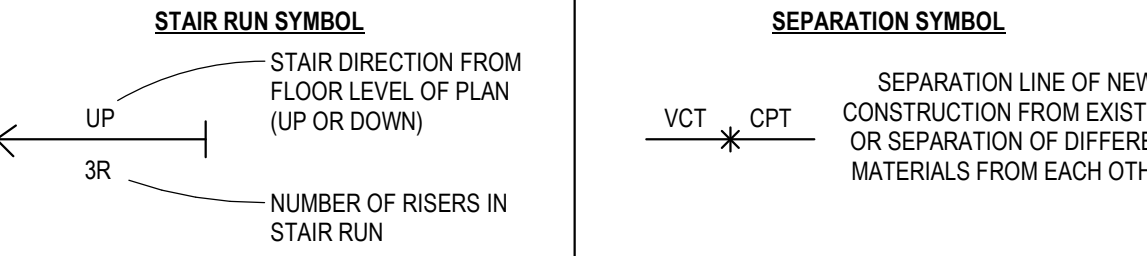
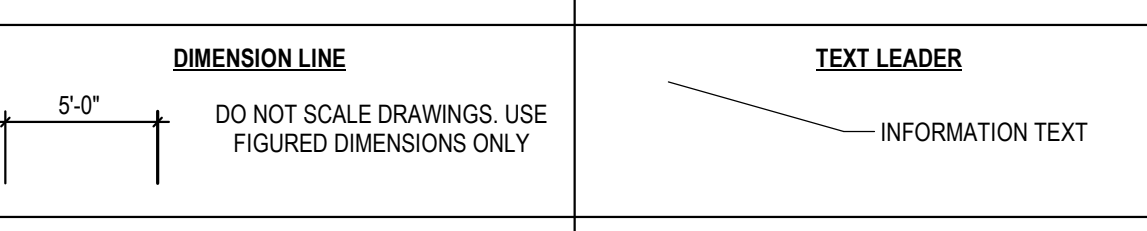
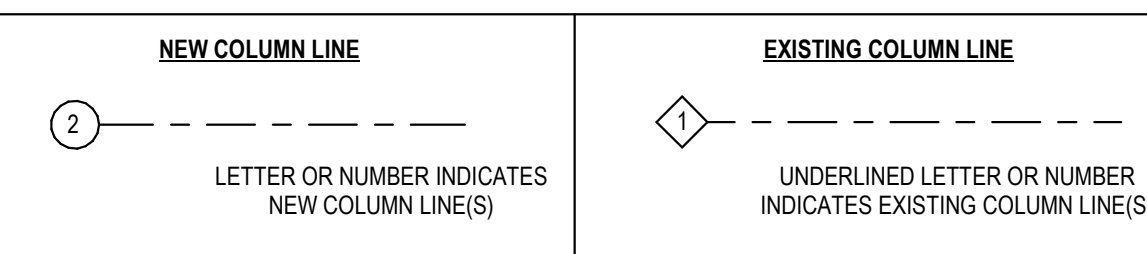
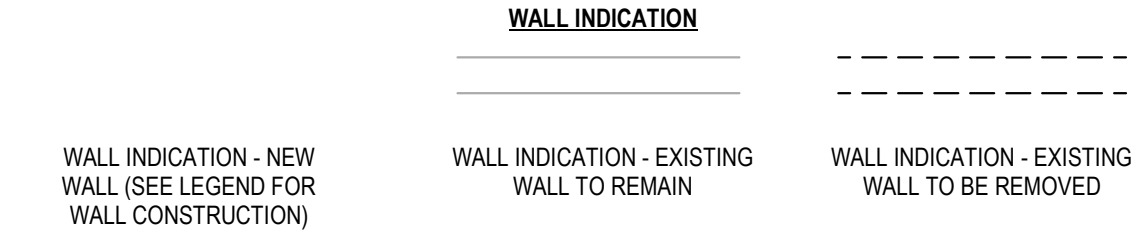
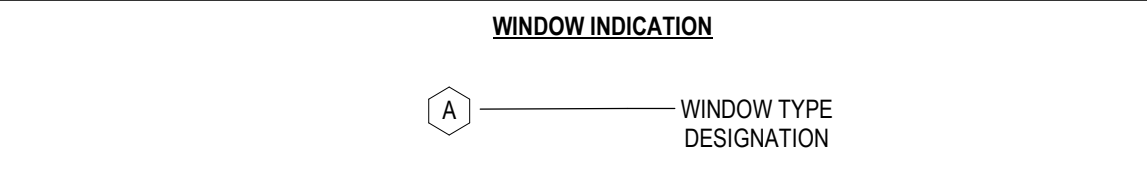
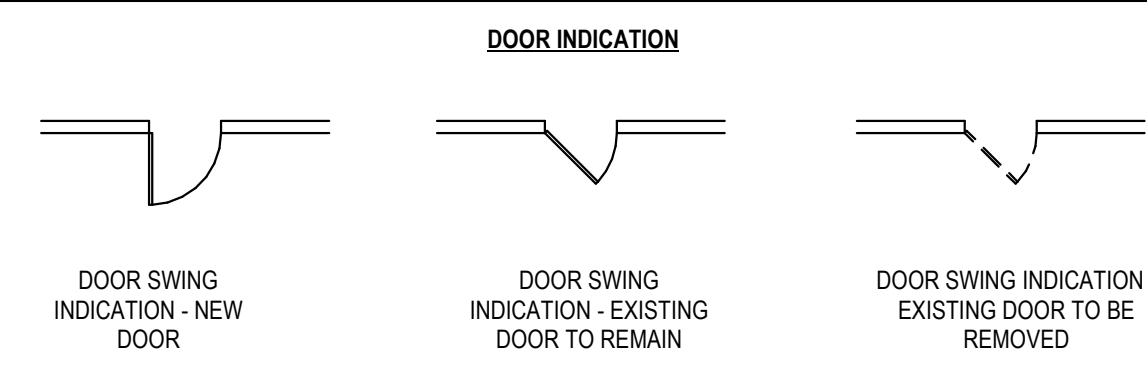
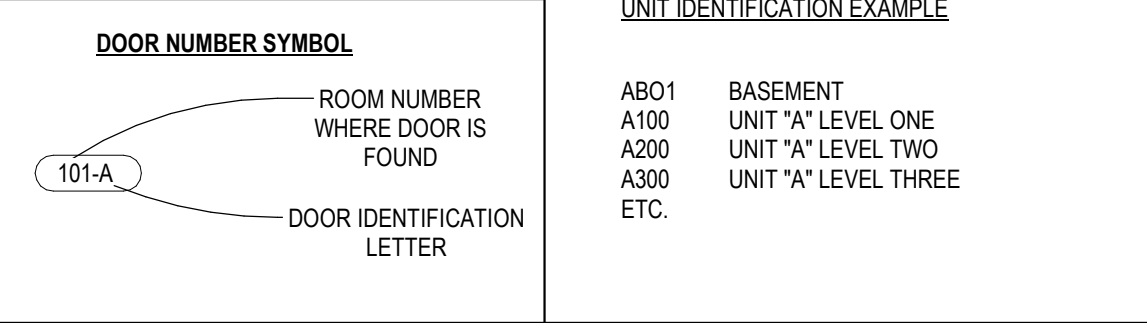
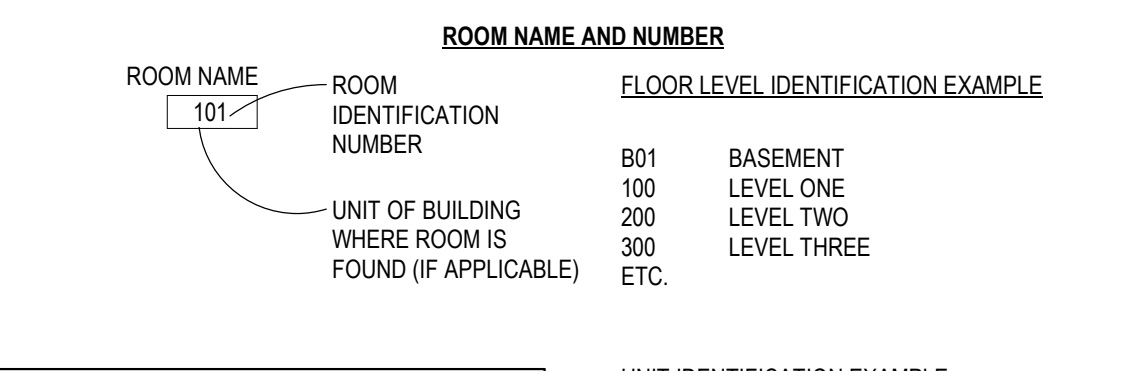
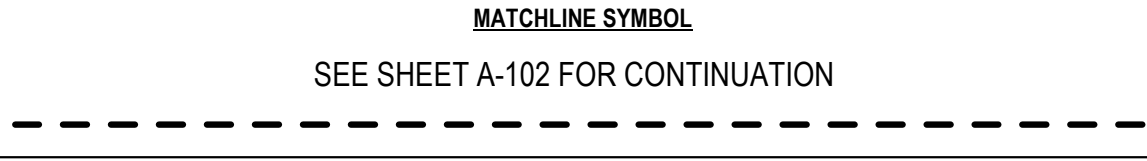
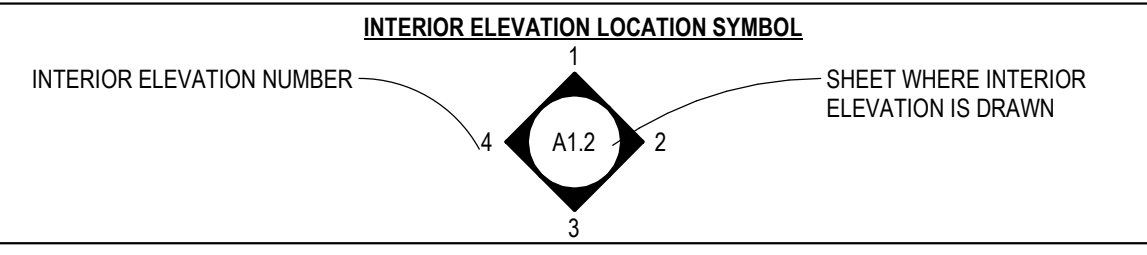
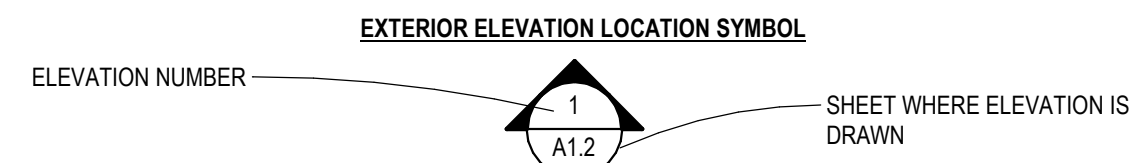
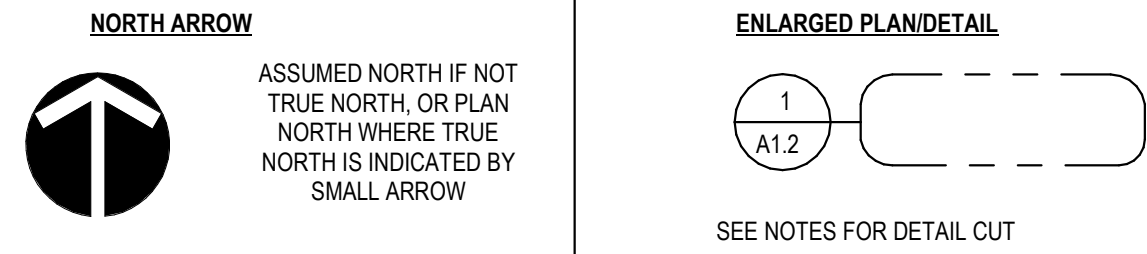
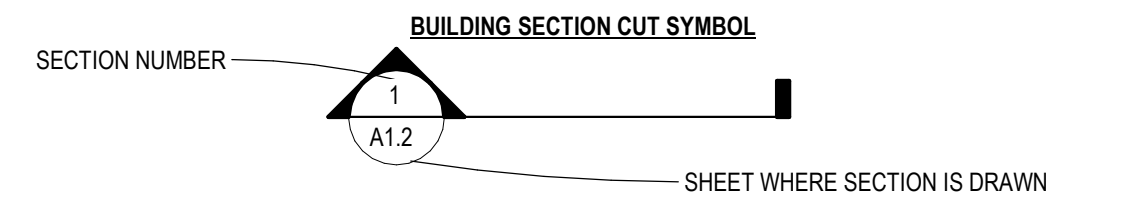
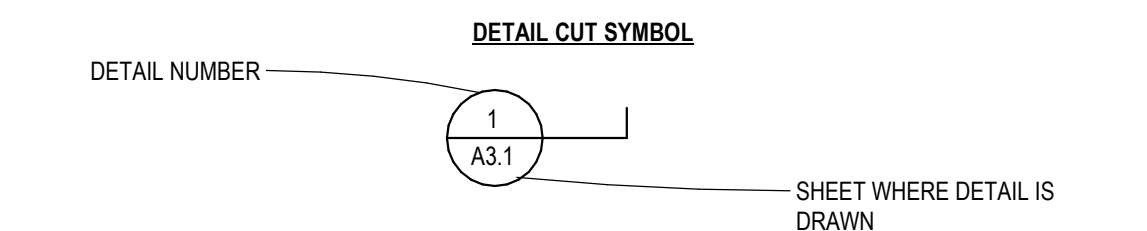
DRAWING TITLE

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

SHEET WHERE DRAWING/DETAIL IS REFERENCED

1

A1.2



C		E		G			
A/C	AIR CONDITIONING	CCL	CEAT CLOSET	E	EAST	GT	GREASE TRAP
AV	AUDIO/VIDEO	CD	CEILING DIFFUSER	EJ	EXPANSION JOINT	GY & B	GATE VALVE AND BOX
AB	ANCHOR BOLTS	CEM	CEMENT	EA	EXHAUST	GYP	GYPSUM BOARD
ABR	ABRASIVE	CEMPLAS	CEMENT PLASTER	ED	EXHAUST DUCT	GYP BD	GYPSUM BOARD
ABS	ABSORBING	CER	CERAMIC	EF	EACH FACE, EXHAUST FAN		
AC	ACOUSTIC/ACOUSTICAL	CFM	CUBIC FEET PER MINUTE	EG	EXHAUST GRILLE	H	
AC INSUL	ACOUSTIC INSULATION	CG	CORNER GUARD	EH	EXTRA HEAVY		
ACB	AIR CIRCUIT BREAKER	CHD	CHORD	EIFS	EXTERIOR INSULATION FINISH SYSTEM	HACL	HEAT ABSORBING GLASS
ACC	ACCESS	CHG	CHANGING	EL	ELECTRIC	HB	HOSE BIBB
ACP	ACOUSTIC CEILING PANEL	CHKO PL	CHECKERED PLATE	ELEC	ELECTRIC, ELECTRICAL	HD	HEAD
ACT	ACOUSTICAL CEILING TILE	CHWR	CHILLED WATER RETURN	ELEC CAB	ELECTRICAL CABINET	HDWD	HARDWOOD
ACU	AIR CONDITIONING UNIT	CHWS	CHILLED WATER SUPPLY	ELEC CL	ELECTRIC CLOSET	HDRW	HARDWARE
AD	ACCESS DOOR	CI	CAST IRON	ELEC OPER	ELECTRICALLY OPERATED	HEX	HEXAGON
ADA	AMERICANS WITH DISABILITIES ACT	CIF	CAST IRON FRAME	ELEV	ELEVATOR	HGT	HEIGHT
ADDN	ADDITION	CIP	CAST IRON PIPE	EMERG	EMERGENCY	HMR	HEATING HOT WATER
ADDNL	ADDITIONAL	CIRC	CIRCUIT	ENCL	ENCLOSURE	HWS	HEATING HOT WATER
ADJ	ADJUSTABLE	CIRCU	CIRCUITRERFERENCE	ENGR	ENGINEER	HID	HIGH INTENSITY DISC
AFSS	ABOVE FINISH FLOOR	CL	CONTROL OR	ENT	ENTRANCE, ENTRY	HO	HOLLOW METAL
	AUTOMATIC FIRE	CJ	CONSTRUCTION JOINT	EP	ELECTRICAL PANEL, EPOXY	HO	HUB OUTLET
	SUPPRESSION SYSTEM	CL	CLASS C CLOSET	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	HORIZ	HORIZONTAL, HORIZO
AGGR	AGGREGATE	CLG	CEILING	EQ	EQUAL	HOSP	HOSPITAL
AHU	AIR HANDLING UNIT	CLGHT	CEILING HEIGHT	EQU	EQUIPMENT	HP	HIGH POINT, HORSEPP
AL CLD	ALUMINUM-CLAD	CLR	CLEAR	EQUIV	EQUIVALENT	HPR	HIGH PRESSURE
AL, ALUM	ALUMINUM	CLR GL	CLEAR GLASS	ER	EXHAUST REGISTER	HR	HANDRAIL
ALT	ALTERNATE	CLR WGL	CLEAR WIRE GLASS	ESMW	ELASTOMERIC SHEET MEMBRANE	HRU	HEAT RECOVERY UNIT
AL PNL	ALUMINUM METAL PANEL	CLRM	CLASSROOM	ESP	WATERPROOFING	HST	HIGH STRENGTH
AMPE	AMPERE	CMU	CONCRETE MASONRY UNIT	EXP	EXTERNAL STATIC PRESSURE	HSB	HIGH STRENGTH BOL
AMPL	AMPLIFIER	CNTR	COUNTER	EW	EACH WAY	HTG	HEATING
AMT	AMOUNT	CNVYR	CONVEYOR	EW	ELECTRIC WATER COOLER	HTR	HEATER
ANCH	ANCHOR, ANCHORAGE	CO	CLEAN OUT, COMPANY	EX	EXCAVATED	HV	HIGH VOLTAGE
ANCHS	ANCHORS	COEF	COEFFICIENT	EXH	EXHAUST	HVC	HOSE VALVE CABINET
AND	AND	COL	COLUMN	EXIST	EXISTING	HW	HOT WATER
AP	ACCESS PANEL	COMPO	COMPOSITION	EXP	EXPANSION	HWR	HOT WATER RETURN
APPR	APPROVED	COMPR	COMPRESSOR	EXP B	EXPANSION BOLT	HWW	HIGHWAY
APPROX	APPROXIMATE	COMPT	COMPARTMENT	EXPD	EXPOSED	HYD	HYDRANT
APT	APARTMENT	CONC	CONCRETE	EXPL P	EXPLOSION PROOF		
ARCH	ARCHITECT, ARCHITECTURAL	COND	CONDUIT, CONDITION,	EXT	EXTERIOR	L	
ASB	ASBESTOS		CONDENSATE, CONDUCTOR	EXTN	EXTENSION		
ASB BD	ASBESTOS BOARD	CONF	CONFERENCE	EXTR	EXTRUDED	ID	INSIDE DIAMETER
ASPH	ASPHALT	CONN	CONNECTION, CONNECTION			IE	INVERT ELEVATION
ASPHT	ASPHALT TILE	CONST	CONSTRUCTION	F		IN OR "	INCH OR INCHES
ASR	AUTOMATIC SPRINKLER RISER	CONT	CONTINUE, CONTINUOUS	F/F	FACE TO FACE	INCAND	INCANDESCENT
ASST	ASSISTANT	CONTR	CONTRACTOR	FA	FIRE ALARM	INCIN	INCINERATOR
ASSY	ASSEMBLY	CONV	CONVECTOR	FAC	FIRE ALARM CONTROL PANEL	INCL	INCLUDE, INCLUDING
AUTO	AUTOMATIC	COR	CORNER	FACP	FIRE ALARM CONTROL PANEL	INFO	INFORMATION
AUX	AUXILIARY	CORR	CORRIDOR, CORRUGATED	FCD	FLEXIBLE CONNECTION	INSTL	INSTALL, INSTALLATIO
AV	AIRC VENT	COV	COVER	FD	FIRE DAMPER, FLOOR DRAIN	INSUL	INSULATE, INSULATION
AVG	AVERAGE	COVPL	COVER PLATE	FDN	FUNDATION	INT	INTERIOR
AW	ACID WASTE	CP	CONTROL PANEL	FR	FEDERAL	INTER	INTERMEDIATE
		CPT	CARPET	FEB	FIRE EXTINGUISHER AND BRACKET	INVERT	INVERT
		CRS	COURSE, COURSES	FEC	FIRE EXTINGUISHER CABINET	IW	INDIRECT WASTE
		CSTG	CASTING	FFIN	FACTORY FINISH		
B		CT	CERAMIC TILE	FGL	FIBER GLASS	J	
B	BATHROOM	CTR	CENTER	FI	FIRE HYDRANT		
B CAB	BACK CABINET	CUF	COUNTERSINK (SUNK)	FIH	FIRE HOSE CABINET	JB	JUNCTION BOX
B PL	BACK PLATE	CFT	CUBIC FEET (FOOT)	PHCL	FIRE HOSE CLOSET	JC	JANITOR CLOSET
BIB	BACK TO BACK	CUH	CABINET UNIT HEATER	FHMS	FLAT HEAD MACHINE SCREW	JST	JOIST
BA	BURGULAR ALARM	CULV	CULVERT	FHR	FIRE HOSE RACK	JT	JUNIT
BBR	BASE BOARD RADIATION	CW	COLD WATER	FHWS	FLAT HEAD WOOD SCREW		
BD	BOARD	CWR	CONDENSING WATER RETURN	FIN	FINISH, FINISHED	K	
BDD	BACK DRAFT DAMPER	CWS	CONDENSING WATER SUPPLY	FIXTURE	FIXTURE		
BOT	BOTTOM ELEVATION	CY	CUBIC YARD, CYCLES	FL	FIRE LINE	K	KIP (1,000 LB)
BET	BETWEEN	CVL	CYLINDER	FLASH	FLASHING	K-D	KNOCK-DOWN
BEV	BEVEL/BELVELLED			FLDG	FOLDING	KOP	KNOCK OUT PANEL
BF	BARRIER-FREE	D		FLR	FLOOR	KP	KICKPLATE
BFP	BACK FLOR PREVENTER			FLR FIN	FLOOR FINISH	KV	KILOVOLT
BITWP	BITUMINOUS WATERPROOFING			FLUOR	FLUORESCENT	KWA	KILOWATT, IMPERE
BK SH	BOOK SHELVES	DB	DECIBLE, CRY BULB	FMBD	FORMBOARD	KW	KILOWATT
BL	BUILDING LINE	DBL	DOUBLE	FPM	FEET PER MINUTE		
BL REL	BLAST-RELIEF	DDR	DUTCH DOOR	FRFG	FIREPROOFING	L	
BL RES	BLAST-RESISTANT	DEG	DEGREE	FR	FRAME	L	ANGLE
BLDG	BUILDING	DEPT	DEPARTMENT	FR/COV	FRAME AND COVER	LAB	LABORATORY
BLKG	BLOCK	DES	DESIGN	FRP	FIBERGLASS REINFORCED	LAD	LADDER
BLKHD	BULKHEAD	DGM	DIAGRAM		PLASTIC OR POLYESTER	LAM	LAMINATE, LAMINATE
BLR	BOILER	DH	DOUBLE HUNG	FRT	FIRE RETARDANT TREATED	LAV	LAVATORY
BLR F	BOILER FEED	DI	DIAMETER	FRZR	FREEZER	LBL	LABEL
BLR H	BOILER HOUSE	DIA	DIAGONAL	FS	FAR SIDE, FULL SIZE	LBLS	LABELS
BLVD	BUILDING VENT	DIFF	DIFFUSER	FSUP	FIRE SUPPRESSION	BS OR #	BS OR #
BM	BEAM BENCH MARK	DM	DIMENSION	FT	FEET, FOOT	LD	LOADING DIFFUSER
BOTT	BOTTOM	DIR	DIRECTORY	FTG	FOOTING	LDG	LOADING
BR	BED ROOM	DISC	DISCOUNT	FTR	FINNED TUBE RADIATION	LDRY	LAUNDRY
BRG	BEARING	DISCONT	DISCONTINUOUS	FURN	FURNISH, FURNISHED	LEV	LEVEL
BRK	BRICK	DISP	DISPENSER	FURR	FURRED, FURRING	LF	LINEAR FEET
BRKR	BREAKER	DIST	DISTANCE	FUT	FUTURE	LG	LEG
BRKT	BRACKET	DIV	DIVIDER/ DIVISION			LGE	LARGE
BRZ	BRONZE	DL	DEAD LOAD	G		LGTH	LENGTH
BSMT	BASEMENT	DMPFG	DAMPROOFING	LH		LH	LEFT HAND
BT	BATHTUB, BENT	DMPR	DAMPER	G	GAS	LN	LINE MET CLO
BTU	BRITISH THERMAL UNIT	DMP RTN	DEMOUNTABLE PARTITION	GA	GAUGE, GAGE	LKR	LOCKER
BULL	BULLETPROOF	DOWN	DOWN	GAL	GALLON	LL	LIVE LOAD
BUR	BUILT-UP ROOFING	DO	DITTO, DOOR OPENING	GLAV	GALVANIZED	LLH	LONG LEG HORIZONTAL
BUZZ	BUZZER	DP	DISTRIBUTION PANEL	GB	GRAB BAR	LLV	LONG LEG VERTICAL
BWW	BACK WATER VALVE	DR	DINING ROOM, DOOR	GENTL	GENERAL	LO	LOUVER OPENING
		DR OP	DOOR OPERATOR	GHT	GLAZED HOLLOW TILE	LP	LIGHTING PANEL, LOW
		DRN	DRAIN	GL	GLASS, GRD LINE	LPG	LIQUID PROPANE GAS
C		DS	DOWN SPOUT	GLZ	GLAZE, GLAZING	LR	LOW PRESSURE
C	CHANNEL	DSP	DRY DRAIN PIPE	GPH	GALLONS PER HOUR	LR	LIVING ROOM
C/C	CENTER TO CENTER	DT	DRAIN TILE	GP	GALLONS PER MINUTE	LT	LIGHT
CA	COMPRESSED AIR	DTG	DRAIN TILE CONNECTION	GR	GRADE	LTG	LIGHTING
CAB	CABINET/ CEMENT ASBESTOS BOARD	DUP	DUPPLICATE	GRANO	GRANOLITHIC	LWTG	LIGHTWEIGHT
CAP	CAPACITY	DWA	DRAIN/WATER	GRAT	GRATING	LWTWGCONC	LIGHTWEIGHT CONCR
CAT NO	CATALOG NUMBER	DWG	DRAWING	G	GROUND		
CB	CATCH BASIN	DWL	DOWEL	GS	GREASE SEPARATOR		
CBD	CHALKBOARD	DWR	DRAWER	GS	GAS SCRUBBER		

M	THOUSAND
M & S	MIRROR AND SHELF
MACH	MACHINE
MACH RM	MACHINE ROOM
MAINT	MAINTENANCE
MAR	MARBLE
MAS	MASONRY
MAT	MATERIAL
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MB	MACHINE BOLT
MBT	MARBLE THRESHOLD
MC	MEDICINE CABINET
MDS	METAL DIVIDING STRIP
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MES	METAL EDGE STRIP
MET	METAL
MET WP	METAL LATH WATERPROOFING
METCL	METAL CLAD
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MI	MISCELLANEOUS IRON
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
ML	METAL LATH
ML & P	METAL LATH AND PLASTER
MUD	MUD
MO	MASONRY OPENING
MOD	MOTOR OPERATED DAMPER
MRR	MOLDED RESIN RECEPTOR
MRT	MOLDED RESIN COUNTERTOP
MULL	METAL THRESHOLD
MTD	MOUNTED
NT	MULLION
<hr/>	
N	
N	NORTH
NAT	NATURAL
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO OR #	NUMBER
NOM	NOMINAL
NOS	NOSING
NRC	NOISE REDUCTION COEFFICIENT
NS	NEAR SIDE
NTS	NOT TO SCALE
<hr/>	
O	
O	OUT TO OUT
OA	OUTSIDE AIR
OB	OBSCURE
OB GL	OBSCURE GLASS
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OHD	OVERHEAD
OHD CLNG	OVERHEAD CLOSET DOOR
OHD DR	OVERHEAD DOOR
OP PRTN	OPERABLE PARTITION
OP	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
ORN	ORNAMENTAL
OXY	OXYGEN
OZ	OUNCE
<hr/>	
P	
P	PHASE
P/CR	PRECAST
PA	PUBLIC ADDRESS
PARA	PARAGRAPH
PASS	PASSAGE
PB	PUSH BUTTON
PC	PIECE, POINT OF CURVATURE
PCF	POUNDS PER CUBIC FOOT
PCL	PRECAST CONCRETE
PCCS	PIECES
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERMANENT
PERP	PERPENDICULAR
PG	PRESSURE GAUGE
PV	POST INDICATOR VALVE
PL GL	PLATE GLASS
PL LAM	PLASTIC LAMINATE
PL	PLATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISH, POLISHED
PORCL	PORCELAIN
PORCENAM	PORCELAIN ENAMEL

PORT	PORABLE
PP	POWER PANEL
PR	PAIR
PREFAB	PREFABRICATED
PRIM	PRIMARY
PARLL	PARALLEL
PROJ	PROJECT, PROJECTION
PROP	PROPERTY
PRTN	PARTITION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	POINT, POINT OF TANGENCY
PT	PAPER TOWEL DISPENSE/DISPOSAL
PT WD	PRESERVATIVE TREATED WOOD
PTD	PAINTED, PAPER TOWEL DISPENSER
PTR	PRECAST TERRAZZO RECEPTOR
PTWR	PAPER TOWEL DISPENSER AND WAST RECEPTACLE
PVC	POLYVINYLCHLORIDE (PIPE)
PVG	PAVING
PVMT	PAVEMENT
Q	
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
R	
RA	RISER
RA	RETURN AIR
RAD	RADIUS, RETURN AIR DUCT
RAF	RETURN AIR FAN
RD	ROOF CONDUCTOR
RD	ROAD, ROAD DRAIN
REC	RECESS
RECP	RECEPTACLE
RECT	RECTANGLE, RECTANGULAR
RECV	RECEIVING
RED	REDUCER
REF	REFLECTED, REFLECTIVE
REFR	REFRIGERATION, REFRIGERATOR
REG	REGISTER
REINF	REINFORCE, REINFORCING, OR REINFORCEMENT
REM	REMOVE, REMOVABLE
RECD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISED, REVISION
RFG	ROOFING
RH	RIGHT HAND
RHK	RIGHT HOOK
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RS	ROOF SUMP
RT	RUBBER TILE
RV	ROOF VENTILATOR
RWC	RAIN WATER CONDUCTOR
S	
S	SOUTH
S & P	SHELF AND POLE
SAN	SANITARY
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISPENSER, SPLITTER DAMPER, SUPPLY DIFFUSER, SUPPLY DUCT
SECT	SECTION
SER	SERVICE
SF	SQUARE FEET (FOOT), SUPPLY FAN, SWAY FRAME
SG	SUPPLY GRILLE
SGFT	STRUCTURAL GLAZED FACING TILE
SGL	SINGLE
SHT	SHEET
SHT MET	SHEET METAL
SHWR	SHOWER
SIM	SIMILAR
SINK	SINK
SD	SEMI-RECESSED SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SP	SPACE(S), STATIC PRESSURE
SPEC	SPECIFICATIONS
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ. FT.	SQUARE FEET (FOOT)
SR	SUPPLY REGISTER
SS	SERVICE SINK
SSTL	STRUCTURAL STEEL
ST	STREET
ST STL	STAINLESS STEEL
STA	STATION
STAG	STAGGERED

STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STLPL	STEEL PLATE
STM	STEAM
STOR	STORAGE
STR	STRAIGHT
STRUCT	STRUCTURAL
SUB	SUBSTANTIATION
SUBST	SUBSTITUTE
SUPP	SUPPORT
SURF	SURFACE
SUSP	SUSPENDED, SUSPENSION
SV	SHEET VINYL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMBOL, SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
<hr/>	
T	THERMOSTAT, TREAD, TOILET
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
T/C	TOP OF COVER/CURB
T/R	TOP OF RAIL
T/S	TOP OF STEEL
TD	TACKBOARD
TD	TRENCH DRAIN
TE	TOP ELEVATION
TECH	TECHNICAL
TEL	TELEPHONE
TELCAB	TELEPHONE CABINET
TEMP	TEMPERATURE
TEMPGL	TEMPERED GLASS
TERR	TERRAZZO
THD	THREAD, THREADED
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TOIL	TOILET
TOILT	TOILET PAPER DISPENSER
TRAN	TRANSOM
TR	TWIN TEE
TU	TERMINAL UNIT
TV	TELEVISION, TURNING VANE
TVM	TELEVISION MONITOR
TYP	TYPICAL
<hr/>	
U	UNDERGROUND
UG	UNIT HEATER
UL	UNDERWRITERS' LABORATORIES, INC.
ULT	ULTIMATE
UNFIN	UNFINISHED
UNJ	UNLESS OTHERWISE NOTED
UR	URINAL, URETHANE
USUB	UNIT SUBSTATION
V	UNIT VENTILATOR
<hr/>	
V	VENT, VOLT(S)
V / PLAS	VENEER PLASTER
VAC	VACUUM
VAT	VINYL ASBESTOS TILE
V/B	VALVE BOX
V/C	VERTICAL CURVE
VCO	VACUUM CLEANER OUTLET
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
V/D	VOLUME DAMPER
VH	VEHICLE
VENT	VENTILATE, VENTILATED, VENTILATION
VENT	VENTILATION, VERTICALLY
VEST	VESTIBULE
VIN	VINYL
VIN FAB	VINYL FABRIC
VIT	VITREOUS
VITSURF	VITREOUS SURFACING
VOLUME	VOLUME
V/T	VAPORTIGHT
VTR	VENT THROUGH ROOF
V/W	VINYL WALL COVERING
V/F	VERIFY IN FIELD
<hr/>	
W	WASTE, WATER, WATTS OR WEST
W CAB	WALL CABINET
W/	WITH
W/O	WITHOUT
WANS	WAINSCOT
WB	WET BULB
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WASH FOUNTAIN
WG	WATER GAUGE
W GL	WIRE GLASS

WALL HYDRANT  
WAREHOUSE  
WROUGHT IRON  
WORKING LINE  
WIRE MESH  
WINDOW OPENING  
WATERPROOFING,  
WEATHERPROOFING  
WORKING POINT  
WEIGHT  
WALL VENT  
WELDED WIRE FABRIC

---

TRANSFER  
TRANSFORMER

---

YARD  
YIELD POINT  
YEAR  
YIELD STRENGTH

---

ZINC-COATED

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900

[www.sfarch.us](http://www.sfarch.us)

Good clients + Good design + Great architecture



REVISIONS	
Date	Description

**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST., FENTON, MI 48430**

Drawing

## General Notes

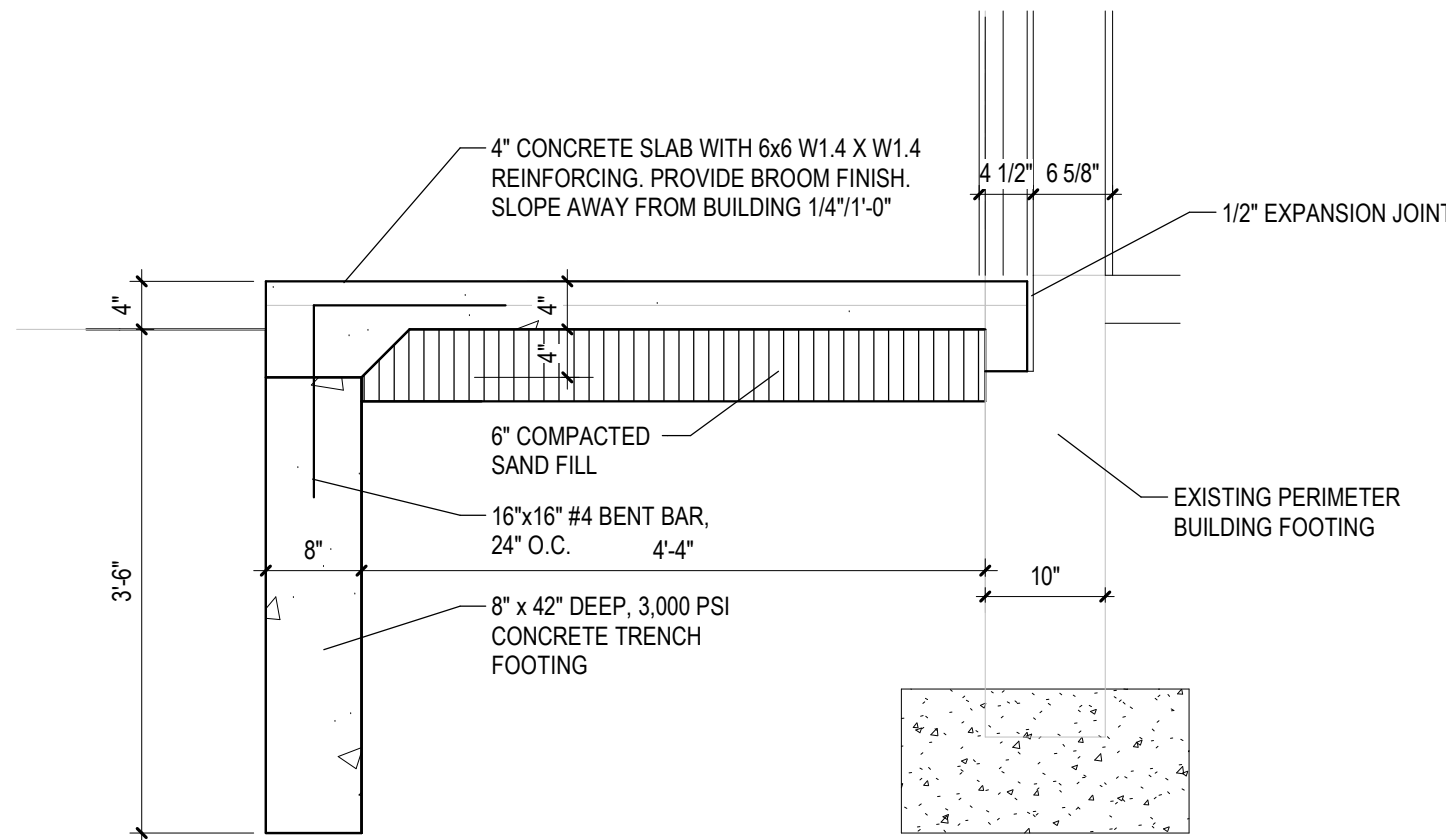
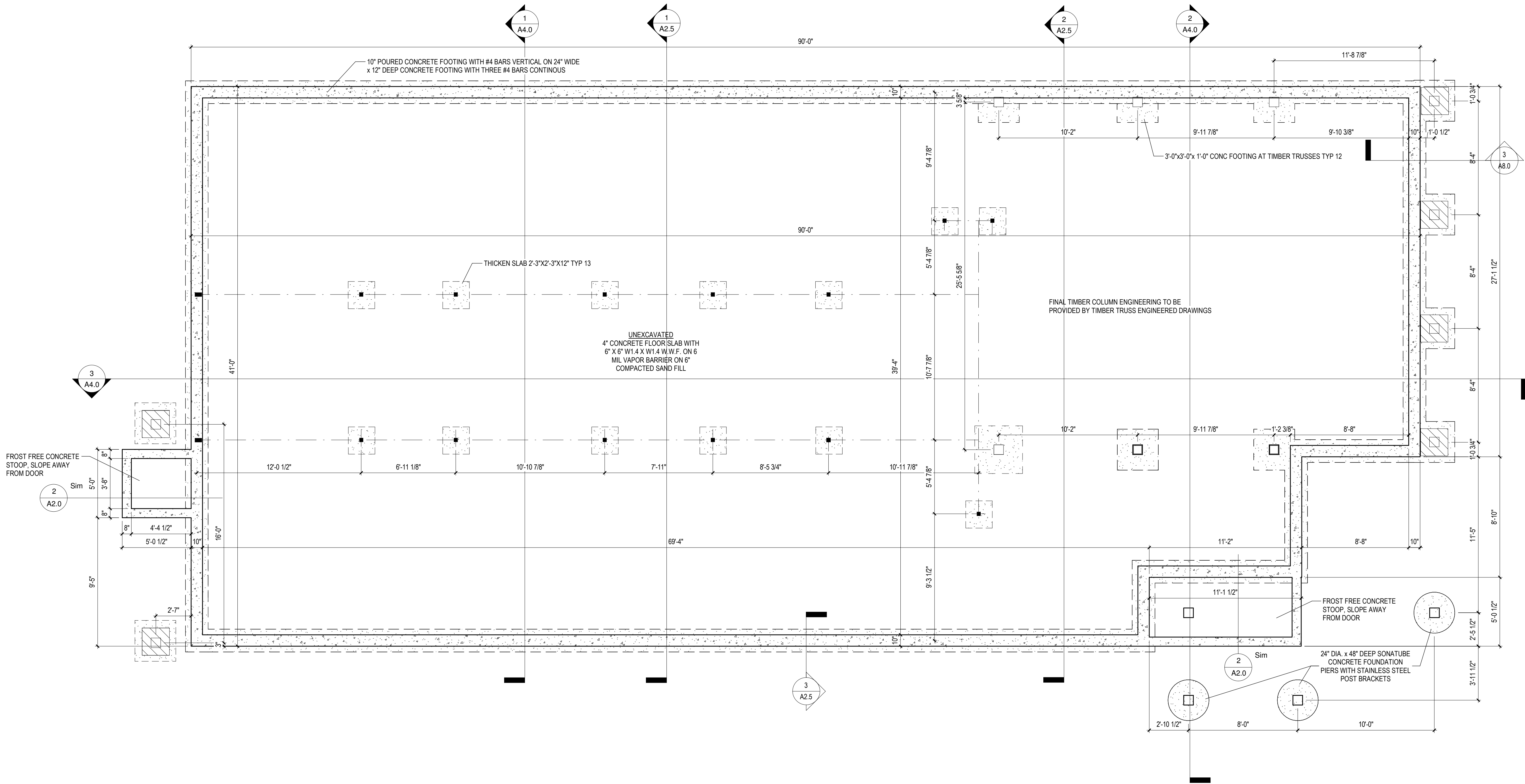
DRAWN BY: Author  
CHECKED BY: Checker

PROJECT NUMBER 21-041  
DATE 10/25/2022

SCALE **1 1/2" = 1'-0"**

# A0.1





2 Exterior Details - Proposed Concrete Stoop Section Detail  
A2.0 | 3/4" = 1'-0"



1 Foundation Plan  
A2.0 | 1/4" = 1'-0"

Project

DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Drawing

Foundation Plan

DRAWN BY: LJK  
CHECKED BY: SJS

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

A2.0

ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

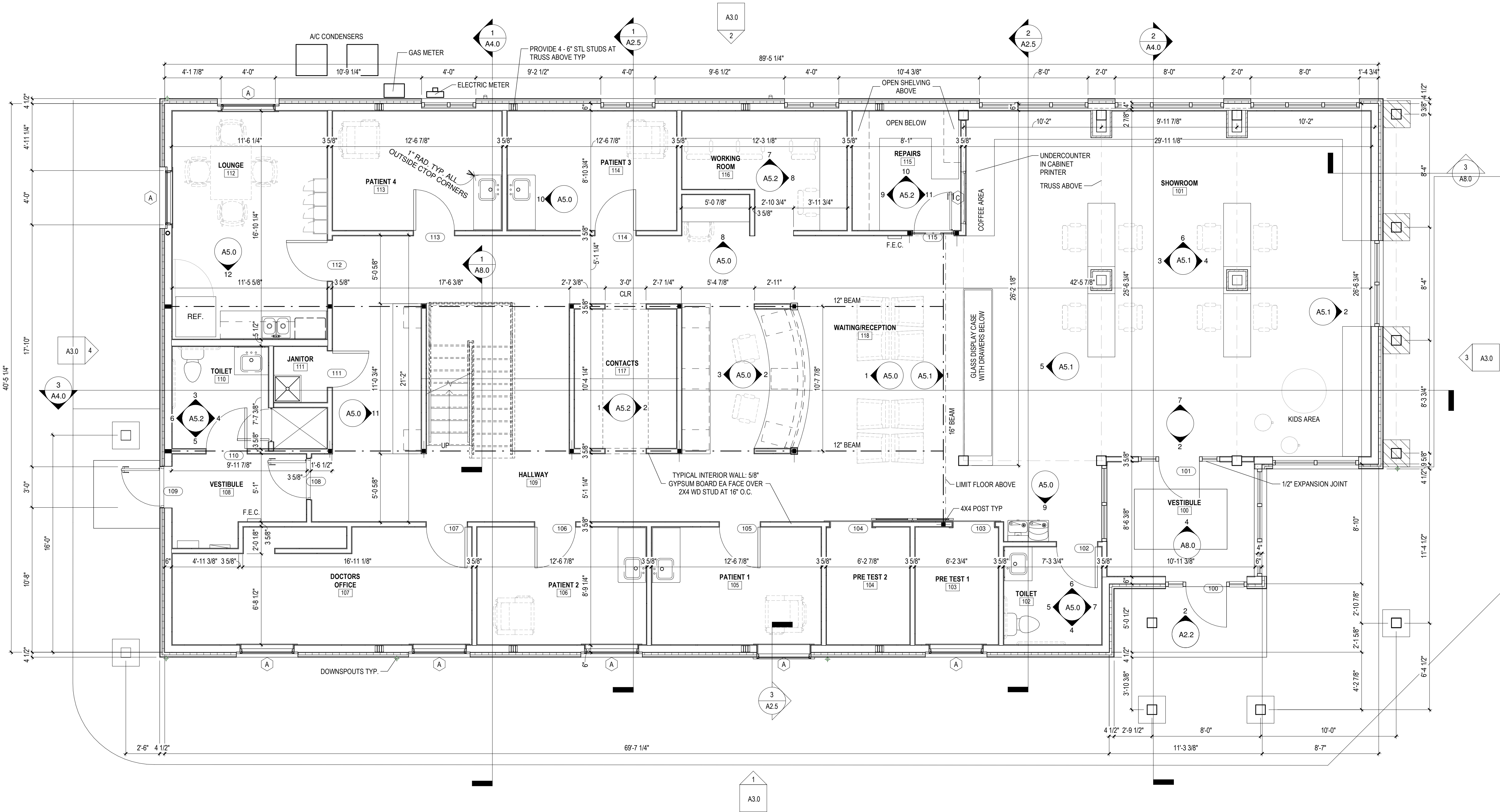
410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



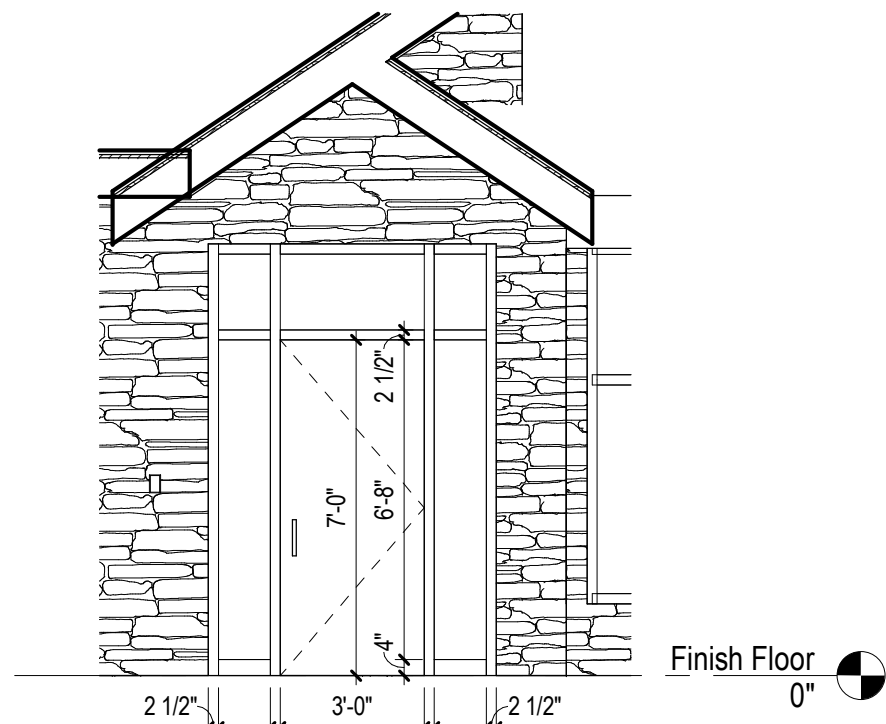
REVISIONS

Date	Description
11/21/22	Revision 1

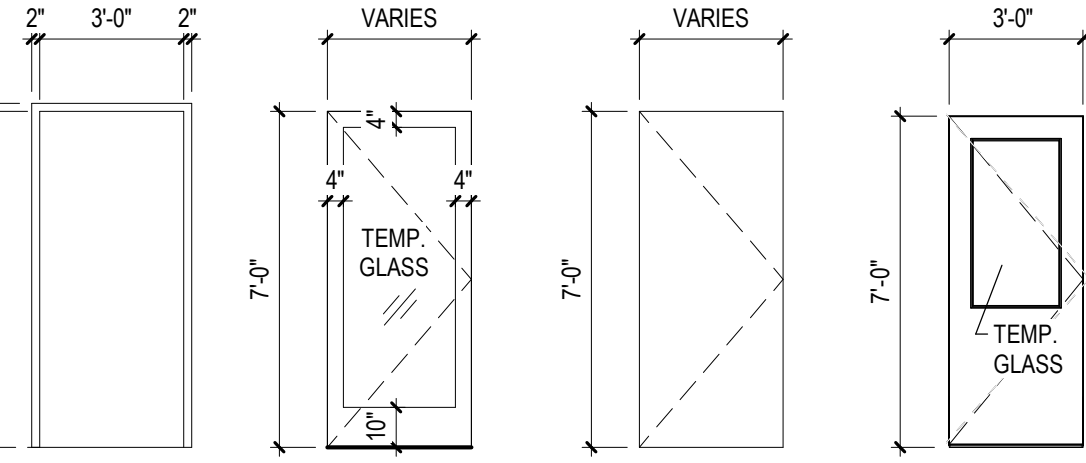


WINDOW SCHEDULE				
TYPE MARK	R.O.	WIDTH	HEIGHT	HEAD HEIGHT
A	4'-0"	5'-0"	<varies>	
B	3'-0"	4'-0"	7'-4"	
C	4'-0"	3'-0"	7'-0"	INTERIOR WINDOW

WINDOW NOTES:  
ALUMINUM EXTERIOR AND INTERIOR WINDOWS - BLACK FINISH  
STOREFRONT STYLE WINDOWS NOT INCLUDED IN SCHEDULE  
SEE ELEVATIONS FOR DIMENSIONS AND LOCATIONS



Door Type Legend  
1/4" = 1'-0"



DOOR SCHEDULE			
DOOR NO.	TYPE	WIDTH	HEIGHT
100	A1	3'-0"	7'-0"
101	A2	3'-0"	7'-0"
102	B1	3'-0"	7'-0"
103	B1	3'-0"	7'-0"
104	B1	3'-0"	7'-0"
105	B1	3'-0"	7'-0"
106	B1	3'-0"	7'-0"
107	B1	3'-0"	7'-0"
108	A2	3'-0"	7'-0"
109	A2	3'-0"	7'-0"
110	B1	3'-0"	7'-0"
111	B1	2'-8"	7'-0"
112	B1	3'-0"	7'-0"
113	B1	3'-0"	7'-0"
114	B1	3'-0"	7'-0"
115	B2	3'-0"	7'-0"
200	B1	2'-8"	7'-0"
201	B1	2'-8"	7'-0"

DOOR HARDWARE TO HAVE BLACK FINISH

GENERAL FLOOR PLAN LEGEND	
	PROPOSED WALL TO CEILING
	PROPOSED PARTIAL HT. WALL
	WALL TYPE TAG NOTE: ALL WALLS IN INDIVIDUAL ROOMS SAME TYPE U.N.O.
	SEMI-RECESSED FIRE EXTINGUISHER CABINET

SEAL OF ARCHITECT

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS

Date	Description
11/21/22	Revision 1

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

Drawing  
**Proposed First Floor Plan**

DRAWN BY: BRF  
CHECKED BY: BRF

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE 1/4" = 1'-0"  
SHEET NUMBER

**A2.1**

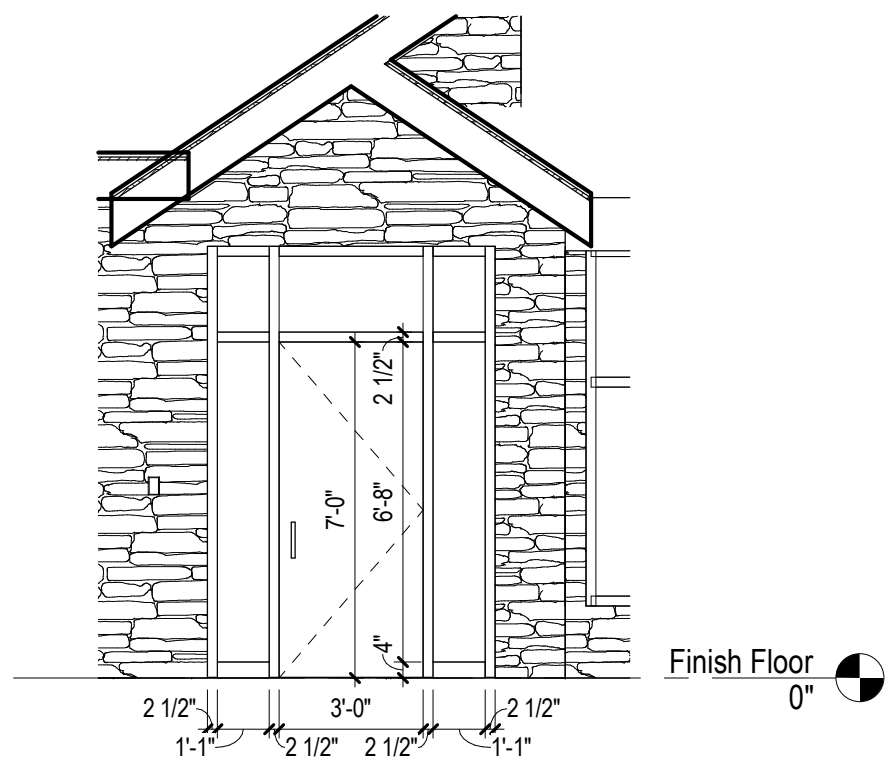


WINDOW SCHEDULE				
TYPE MARK	R.O.		HEAD HEIGHT	COMMENTS
	WIDTH	HEIGHT		
A	4'-0"	5'-0"	<varies>	
B	3'-0"	4'-0"	7'-4"	
C	4'-0"	3'-0"	7'-0"	INTERIOR WINDOW

13

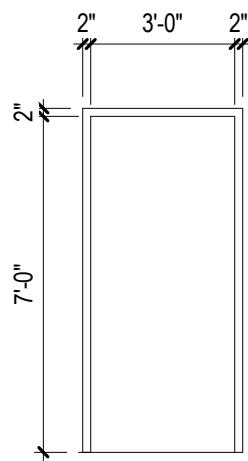
WINDOW NOTES:  
ALUMINUM EXTERIOR AND INTERIOR WINDOWS - BLACK FINISH

STOREFRONT STYLE WINDOWS NOT INCLUDED IN SCHEDULE  
SEE ELEVATIONS FOR DIMENSIONS AND LOCATIONS

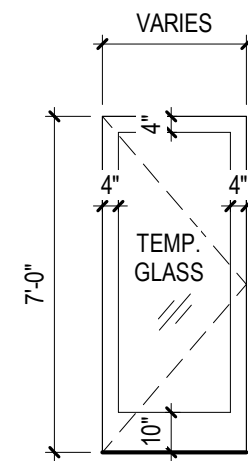


- A1 -  
SINGLE ALUMINUM &  
GLASS ENTRY DOOR

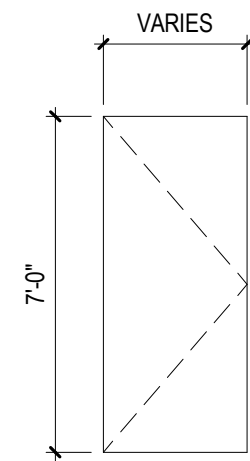
Door Type Legend  
1/4" = 1'-0"



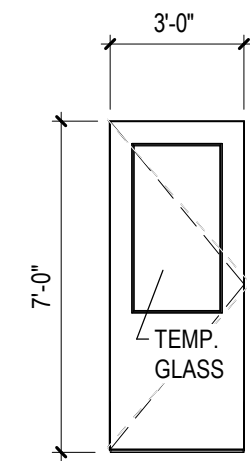
KNOCK DN MTL  
FRAME - BLACK  
FACTORY FINISH



- A2 -  
SINGLE ALUMINUM &  
GLASS DOOR - BLACK  
FACTORY FINISH



- B1 -  
SOLID CORE WOOD DOOR  
SITE FINISHED, BLACK  
STAIN

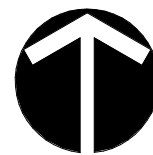
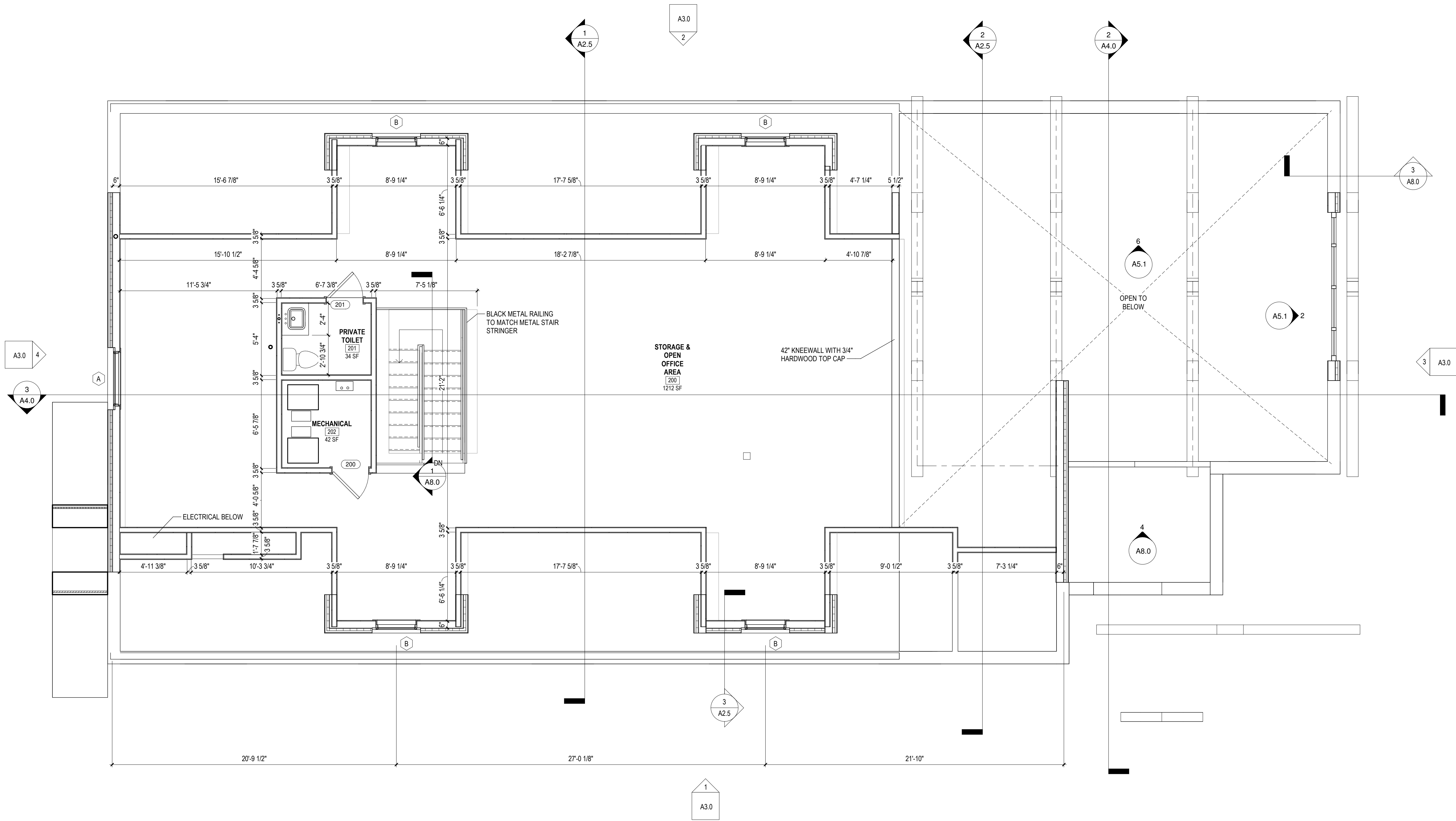


- B2 -  
SOLID CORE WOOD  
DOOR SITE  
FINISHED, BLACK  
STAIN W/ HALF LITE

DOOR SCHEDULE			
DOOR NO.	TYPE	DOOR	
		WIDTH	HEIGHT
100	A1	3'-0"	7'-0"
101	A2	3'-0"	7'-0"
102	B1	3'-0"	7'-0"
103	B1	3'-0"	7'-0"
104	B1	3'-0"	7'-0"
105	B1	3'-0"	7'-0"
106	B1	3'-0"	7'-0"
107	B1	3'-0"	7'-0"
108	A2	3'-0"	7'-0"
109	A2	3'-0"	7'-0"
110	B1	3'-0"	7'-0"
111	B1	2'-8"	7'-0"
112	B1	3'-0"	7'-0"
113	B1	3'-0"	7'-0"
114	B1	3'-0"	7'-0"
115	B2	3'-0"	7'-0"
200	B1	2'-8"	7'-0"
201	B1	2'-8"	7'-0"

#### GENERAL FLOOR PLAN LEGEND

- PROPOSED WALL TO CEILING
- PROPOSED PARTIAL HT. WALL
- WALL TYPE TAG  
NOTE: ALL WALLS IN INDIVIDUAL ROOMS  
SAME TYPE U.N.O.
- SEMI-RECESSED FIRE EXTINGUISHER  
CABINET



1 Second Floor Plan  
A2.2 1/4" = 1'-0"

SEAL OF ARCHITECT

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900

www.starch.us

Good clients + Good design + Great architecture



#### REVISIONS

Date	Description
11/21/22	Revision 1

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

Drawing

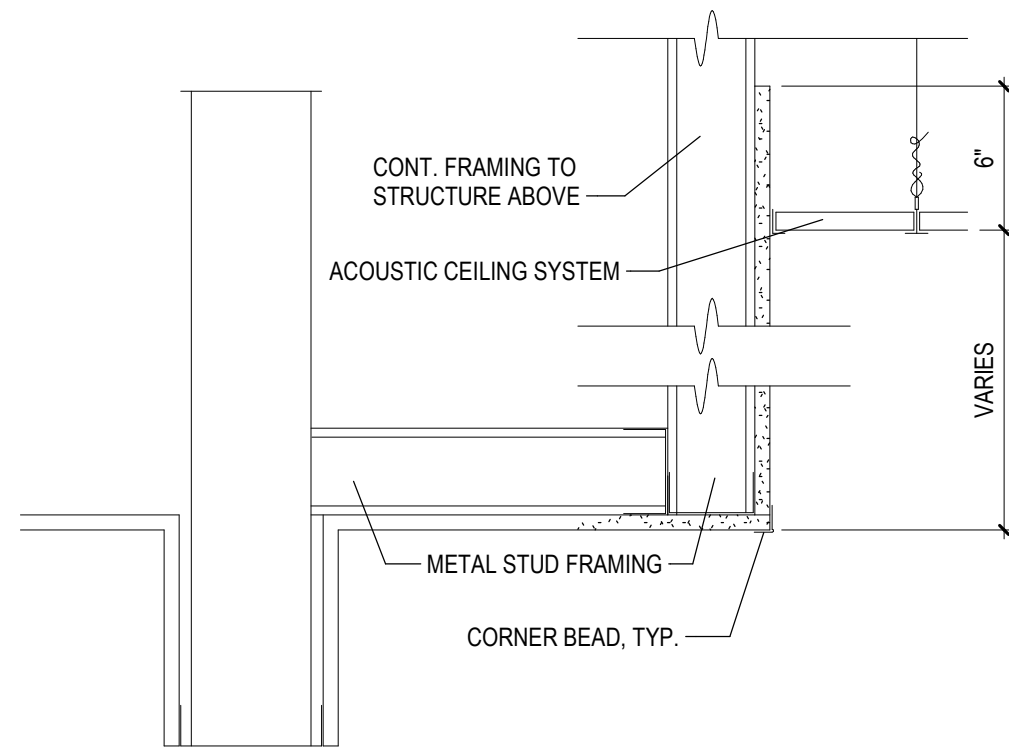
**Proposed Second Floor Plan**

DRAWN BY: BRF  
CHECKED BY: BRF

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE 1/4" = 1'-0"  
SHEET NUMBER

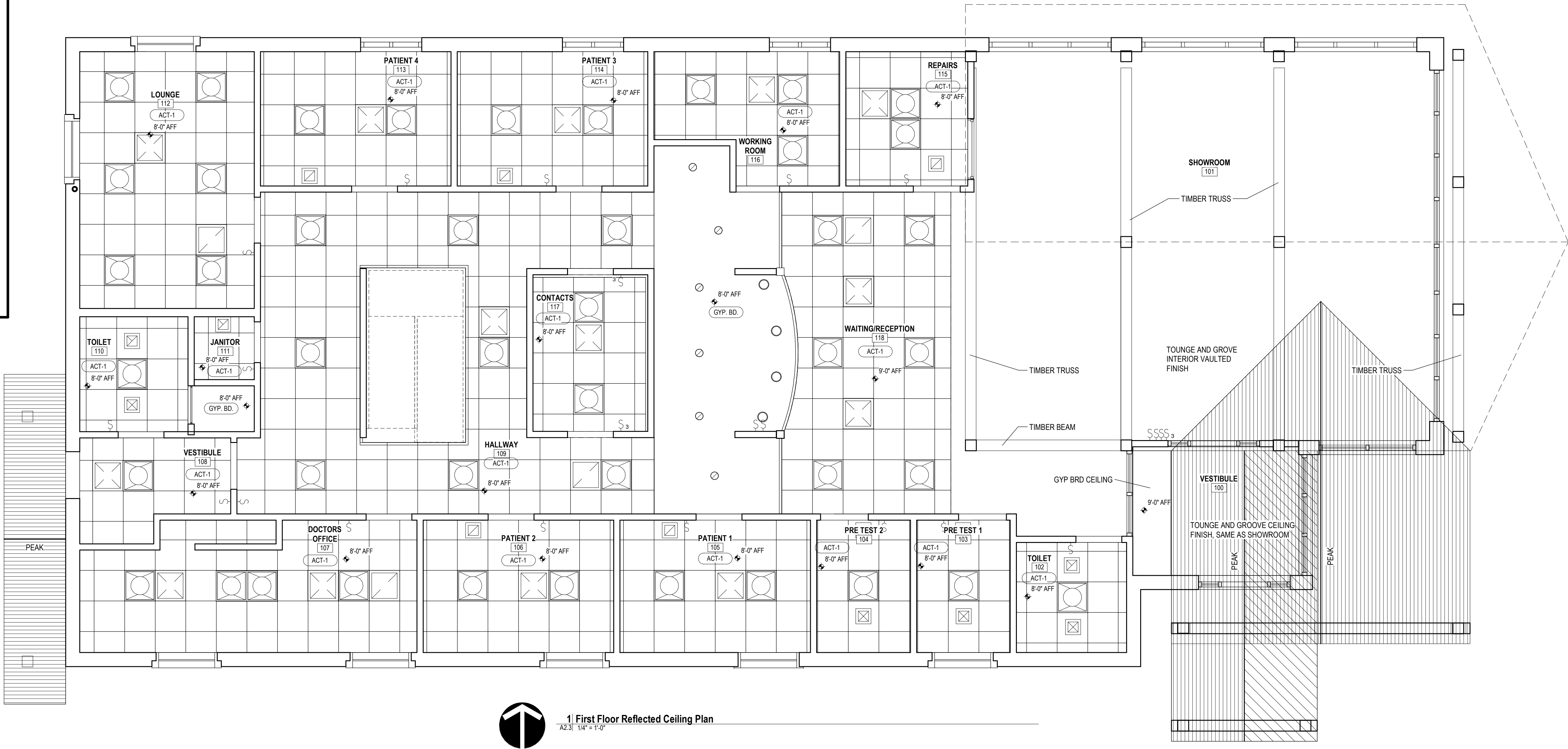
**A2.2**

11/22/2022 11:27:29 AM

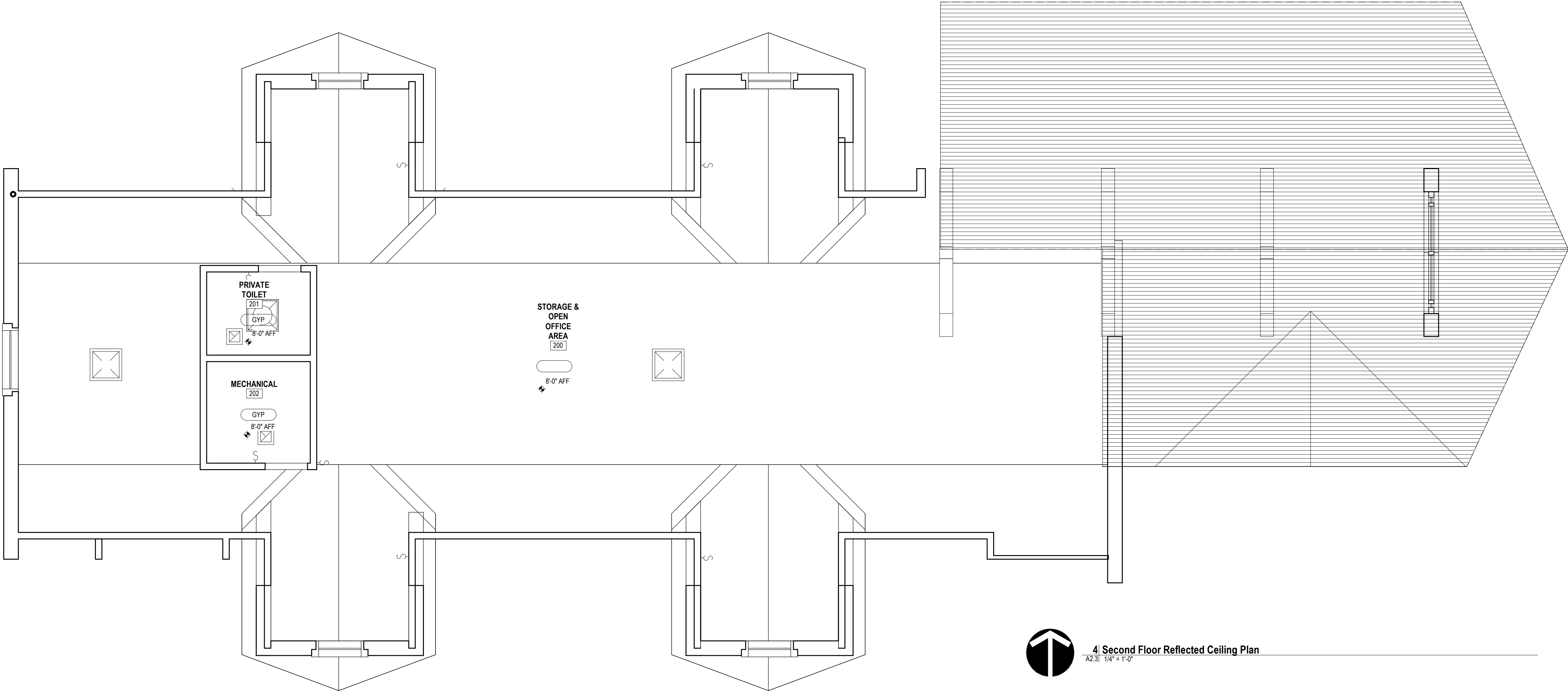


3 Typ. Ceiling Soffit Section Detail  
A2.3, 1/16" = 1'-0"

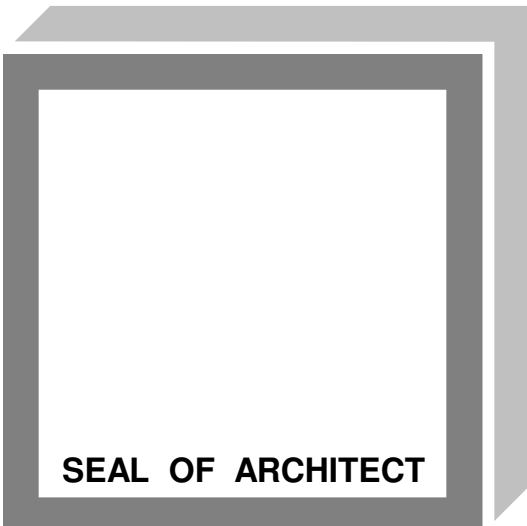
REFLECTED CEILING PLAN LEGEND	
	ACT-1 24" X 24" ACOUSTIC CEILING TILE SYSTEM
	GYPSUM BOARD CEILING
	FIXTURE B 2X2
	FIXTURE C RECESSED CAN, BLACK TRIM
	FIXTURE D DECORATIVE PENDANT



1 First Floor Reflected Ceiling Plan  
A2.3, 1/16" = 1'-0"



4 Second Floor Reflected Ceiling Plan  
A2.3, 1/16" = 1'-0"



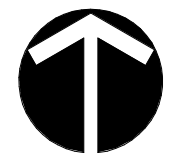
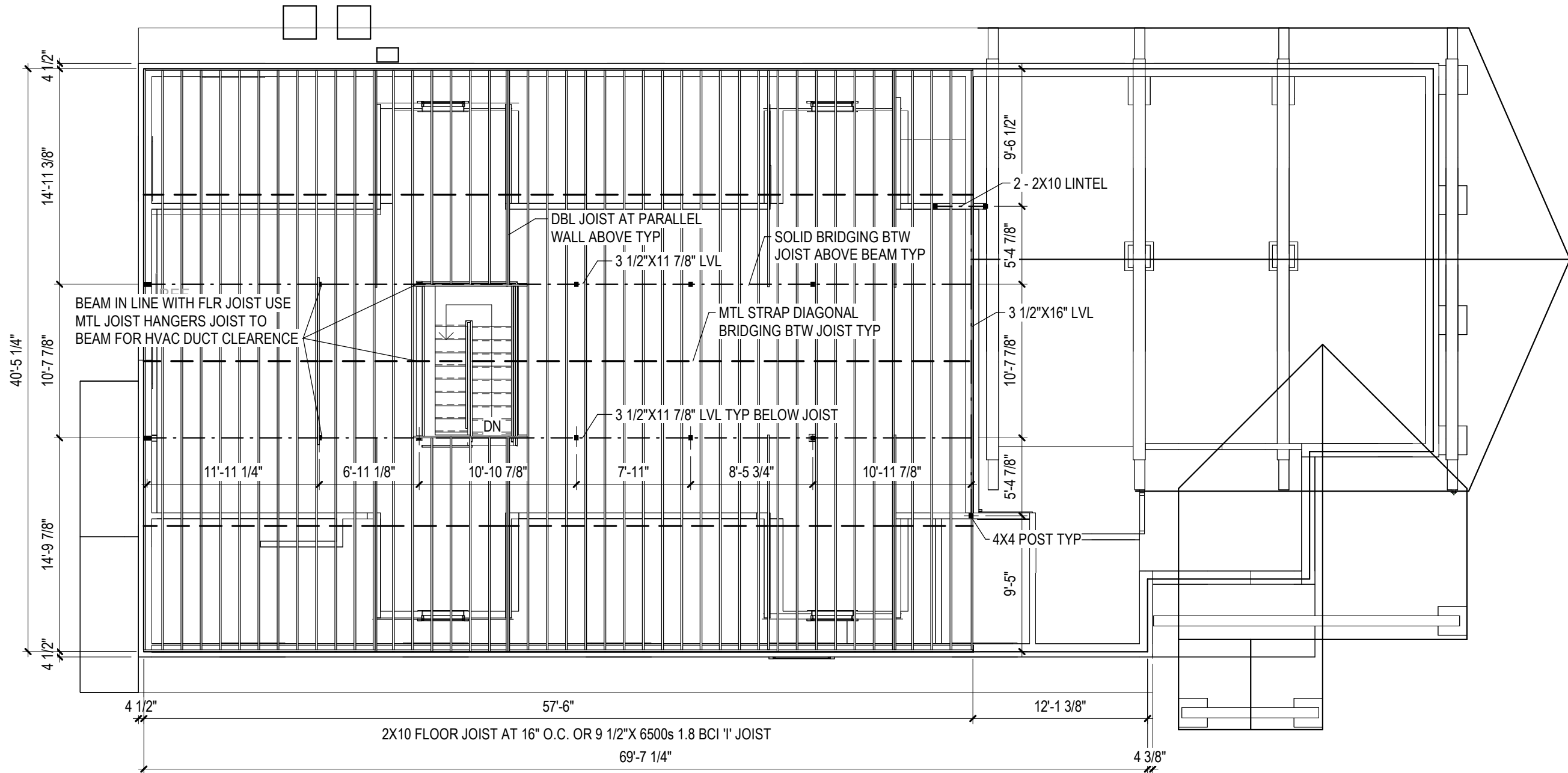
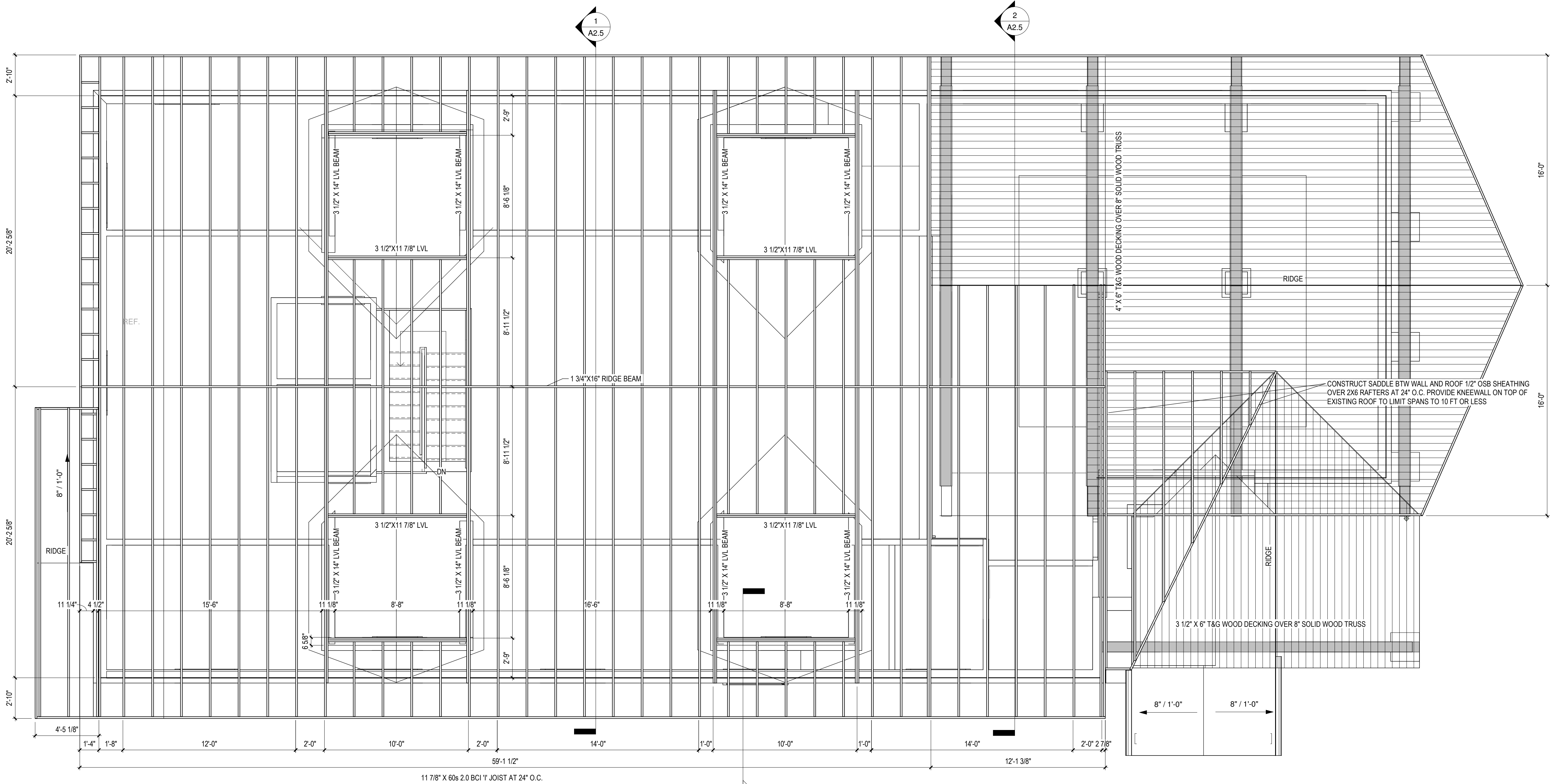
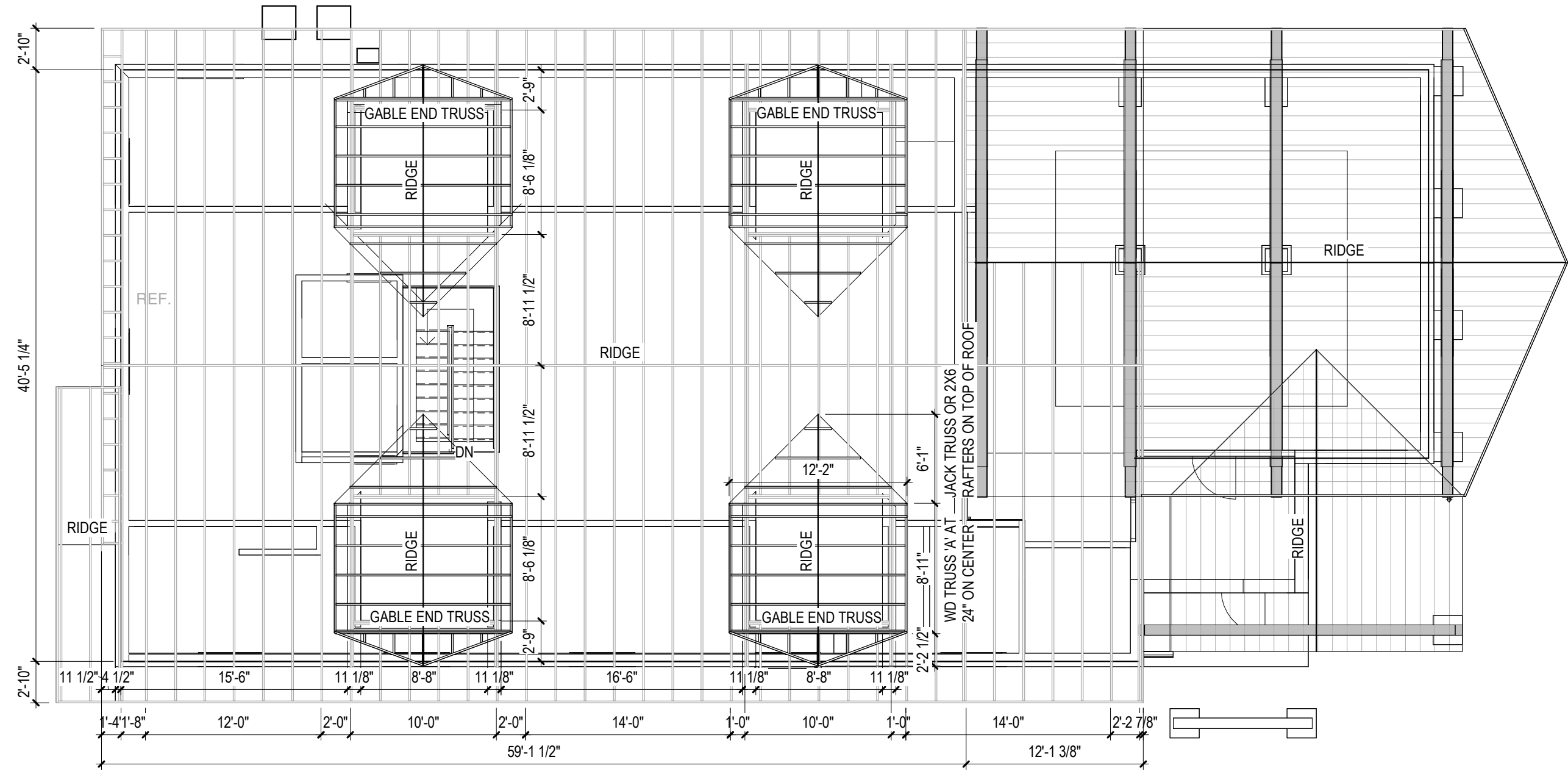
ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**  
410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us  
Good clients + Good design + Great architecture



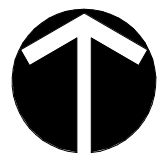
REVISIONS	
11/21/22	Revision 1
Date	Description

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**  
Drawing  
**Reflected Ceiling Plans**

DRAWN BY: BRF  
CHECKED BY: BRF  
PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER  
**A2.3**



3 Roof Dormer Framing Plan



2 Second Floor Framing Plan



1 Roof Framing Plan

Project

DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Drawing

Roof Framing Plans

DRAWN BY: SJS  
CHECKED BY: SJS

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

A2.4

ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

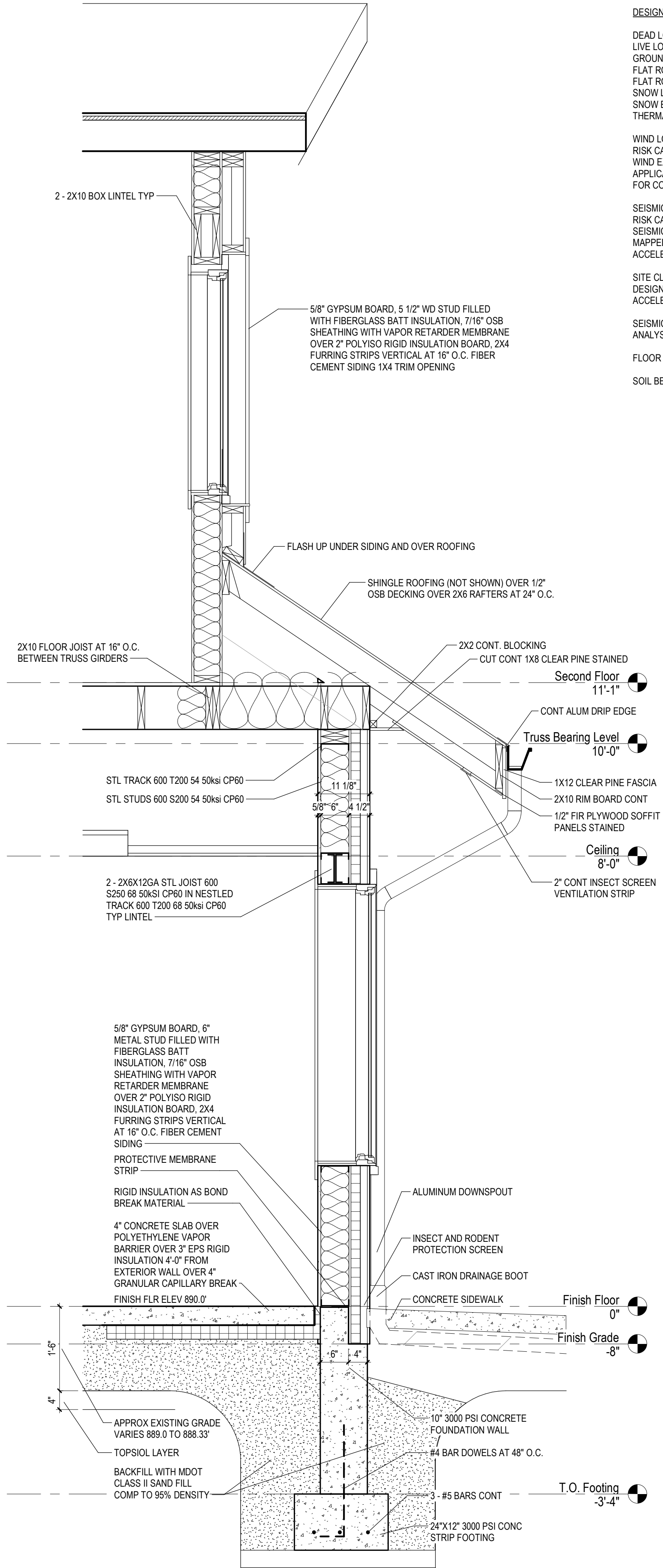
Good clients + Good design + Great architecture



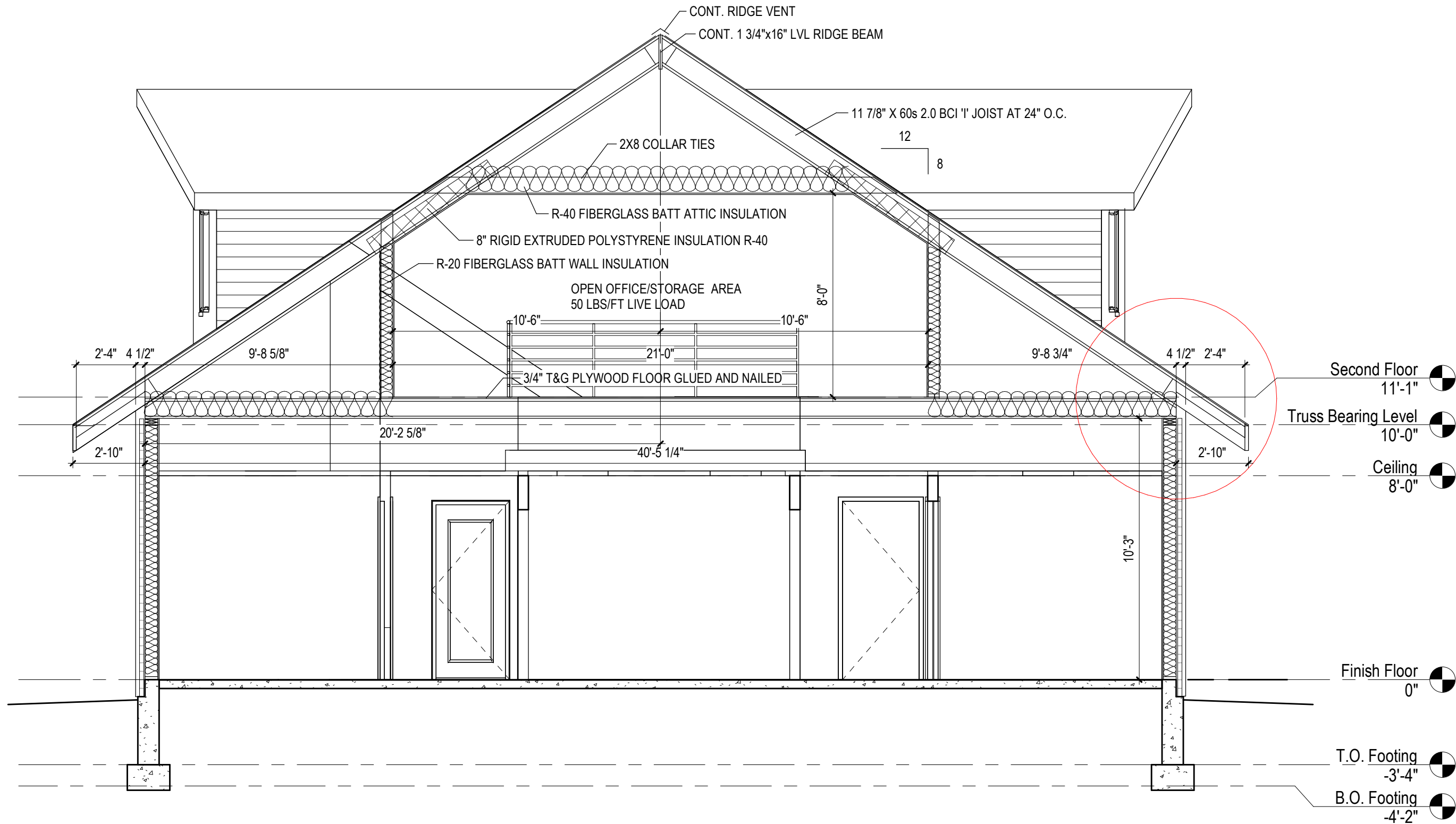
REVISIONS

Date	Description
11/21/22	Revision 1

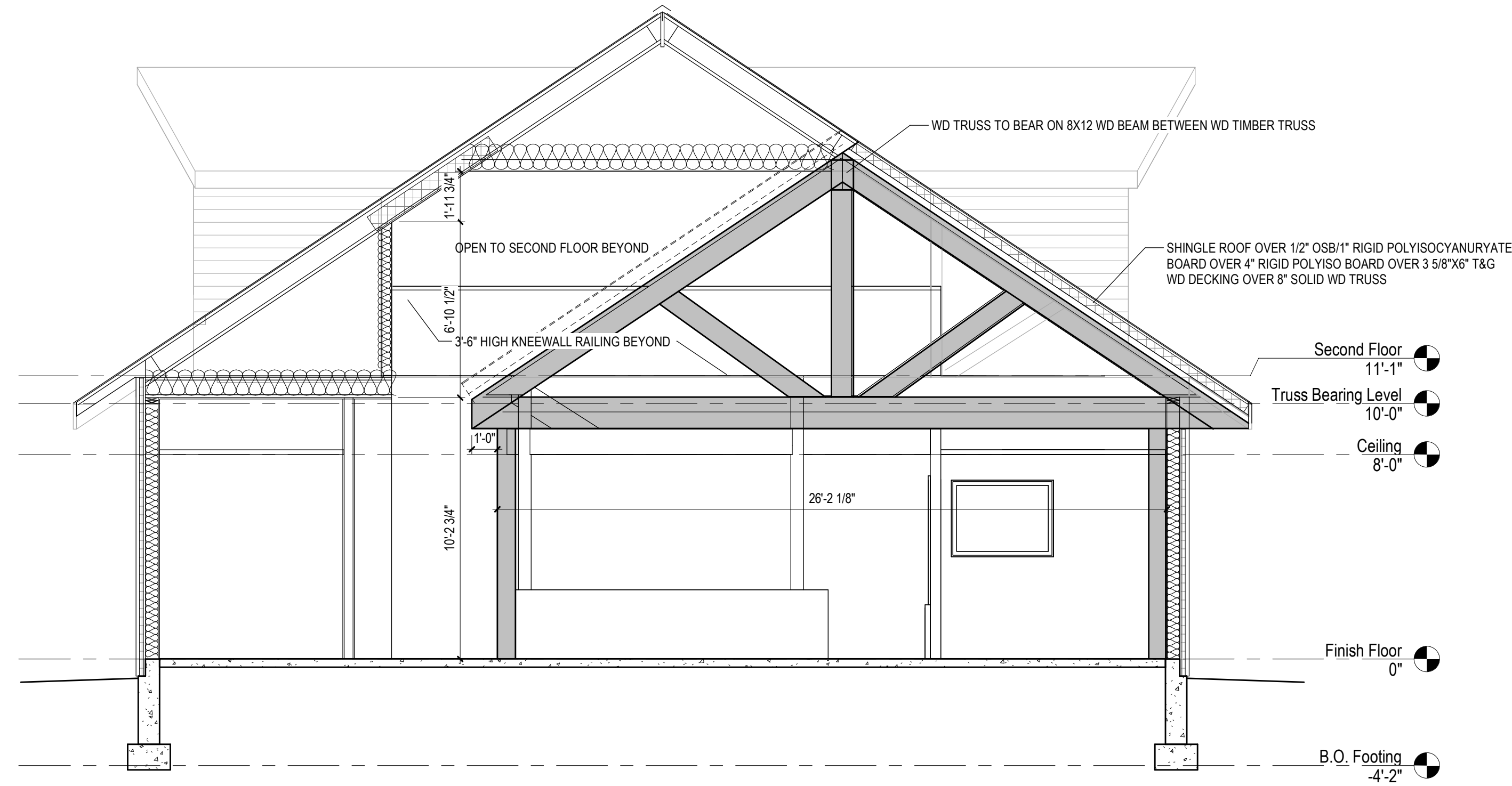




1 Bldg Framing Section 4  
AZ 5: 1/4" = 1'-0"



2 Bldg Framing Section 5  
AZ 5: 1/4" = 1'-0"



SEAL OF ARCHITECT

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS

Date	Description
11/21/22	Revision 1

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

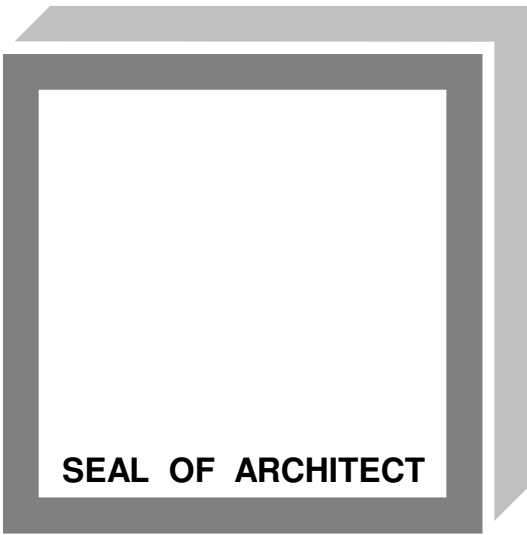
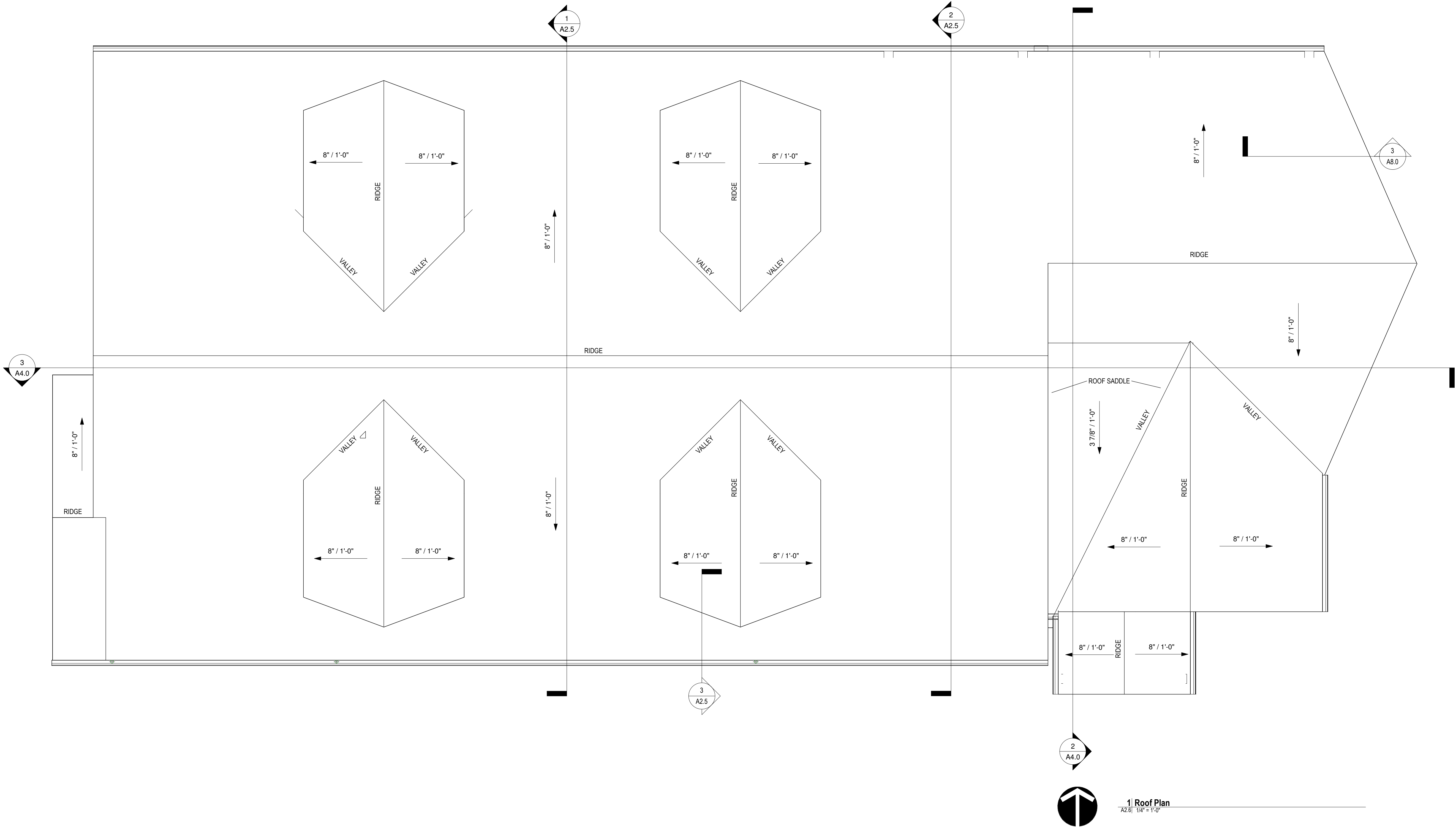
Drawing  
**Bldg Framing Sections**

DRAWN BY: SJS  
CHECKED BY: SJS

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

**A2.5**





ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS	
11/21/22	Revision 1
Date	Description

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

DRAWN BY: SJS  
CHECKED BY: BRF

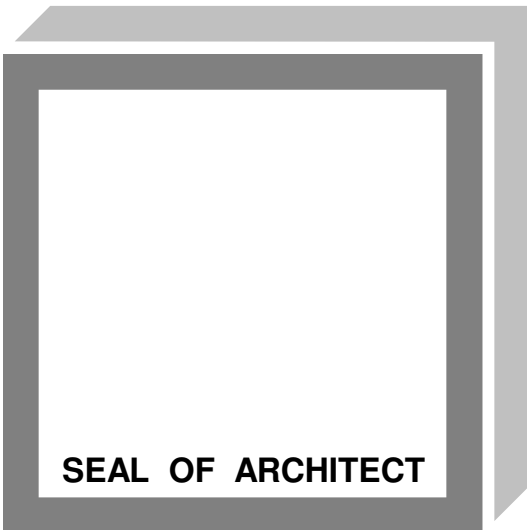
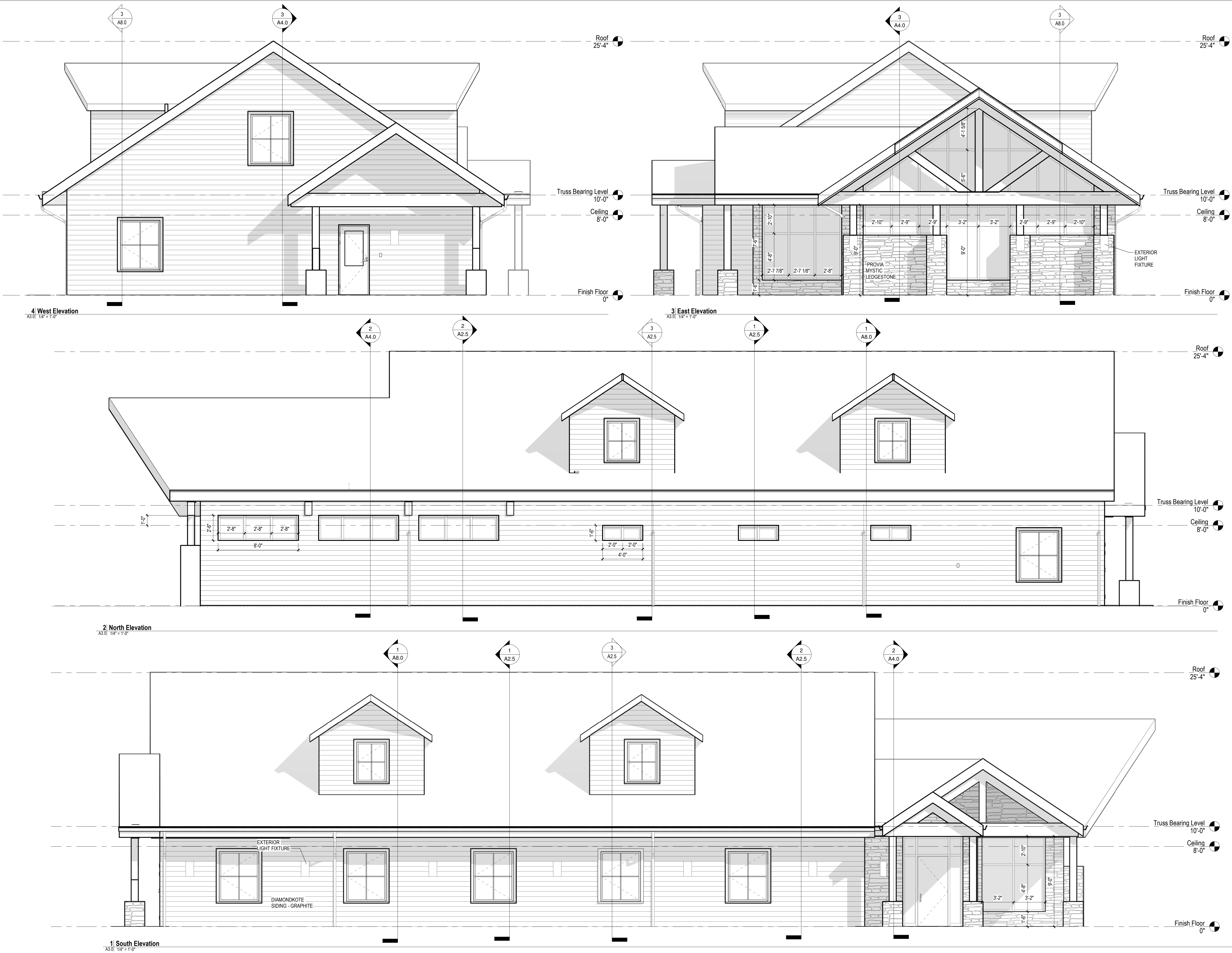
PROJECT NUMBER **21-041**  
DATE **10/25/2022**  
SCALE **As indicated**  
SHEET NUMBER

**A2.6**

Drawing  
**Roof Plan**



11/22/2022 11:27:38 AM



ARCHITECT

**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS	
Date	Description

Project

**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

Drawing

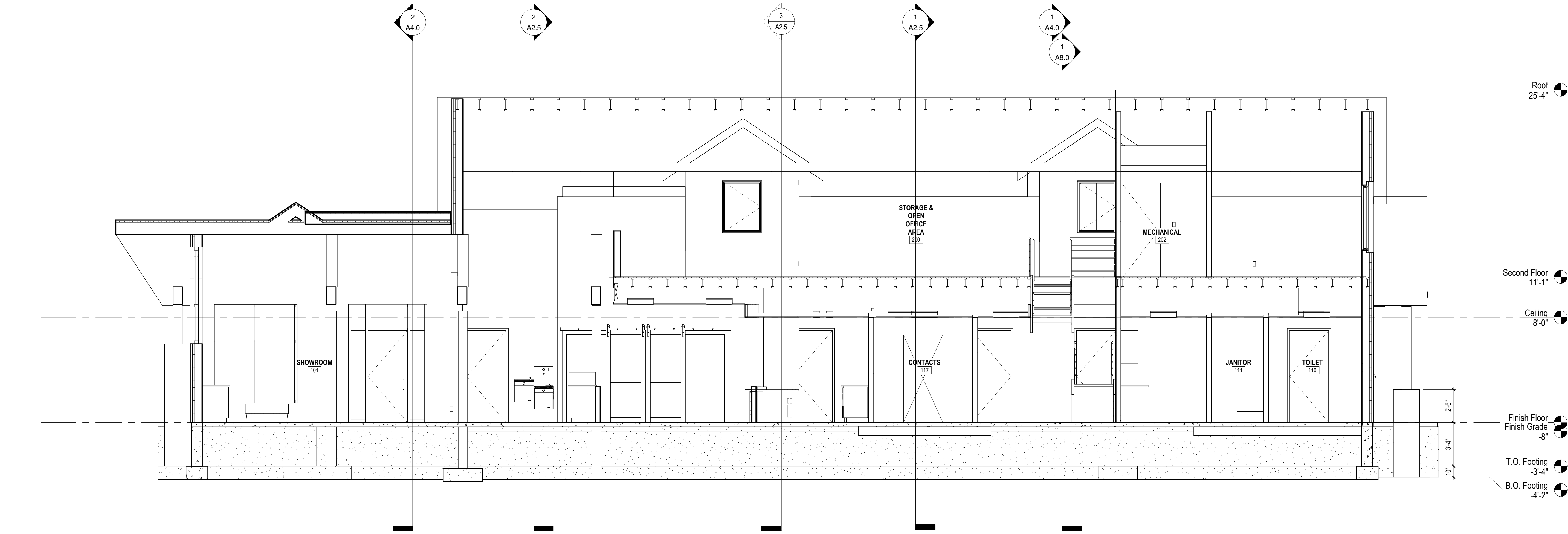
**Exterior Elevations**

DRAWN BY: BRF  
CHECKED BY: BRF

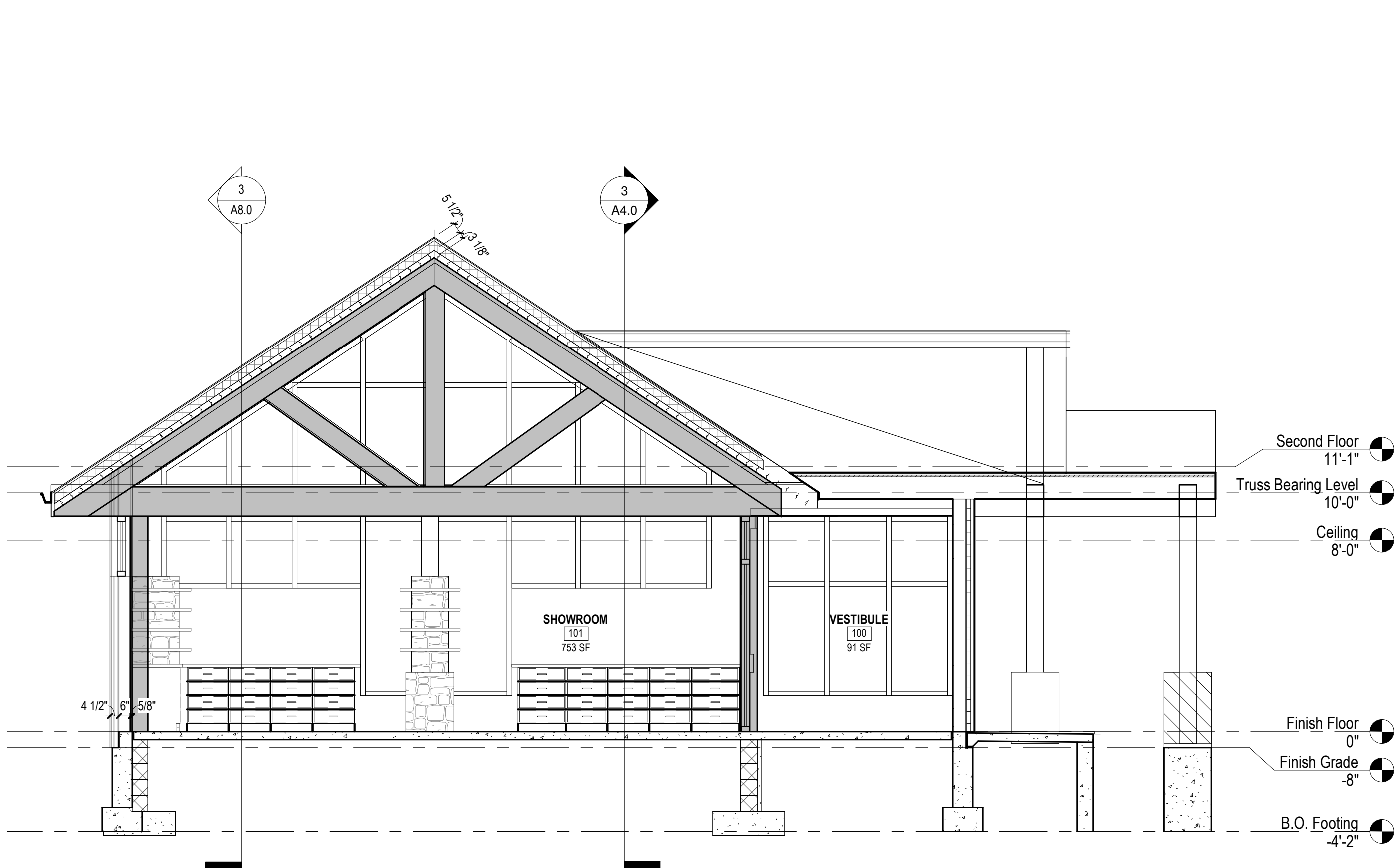
PROJECT NUMBER **21-041**  
DATE **10/25/2022**  
SCALE **1/4" = 1'-0"**  
SHEET NUMBER **A3.0**



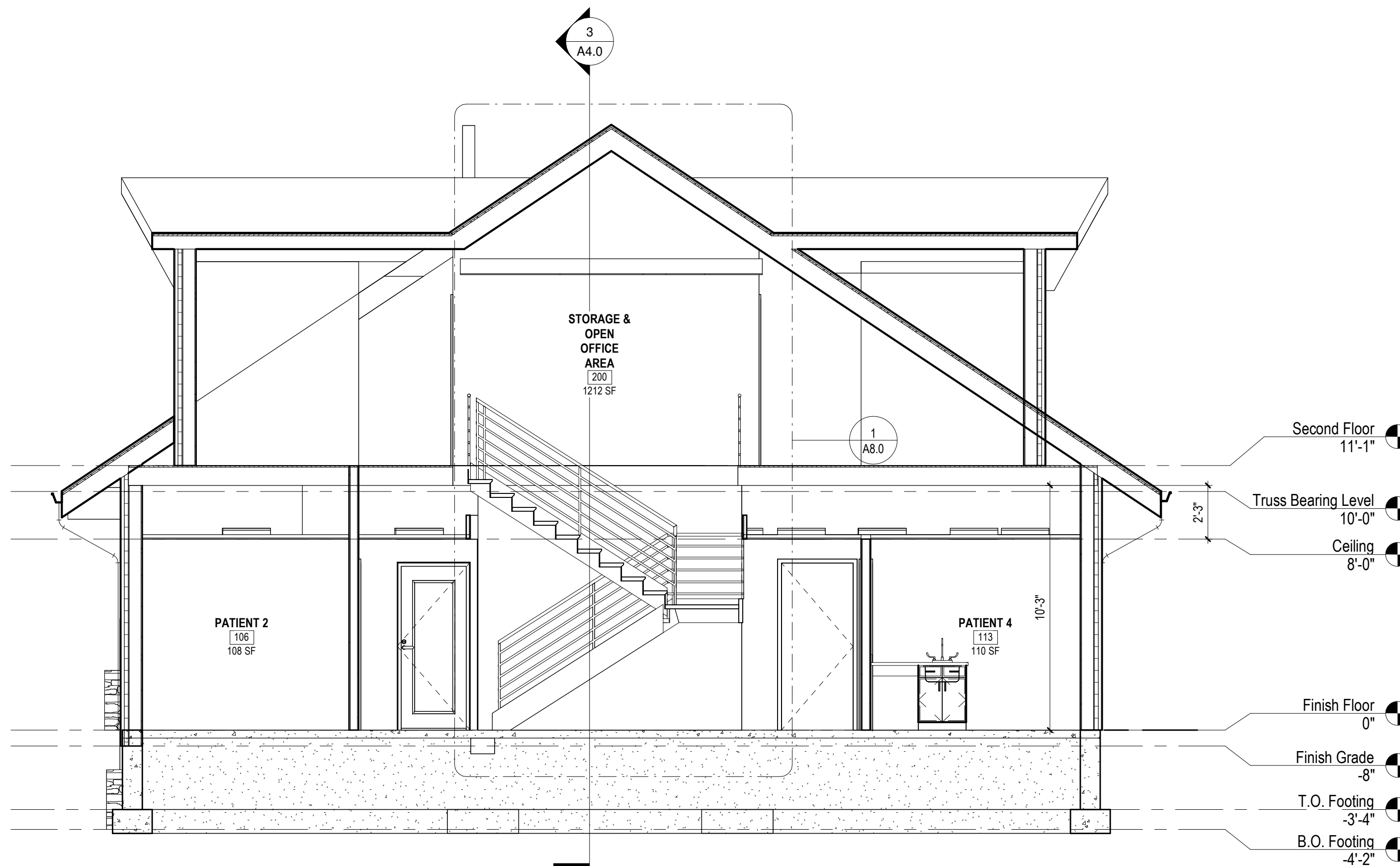
11/22/2022 11:27:40 AM



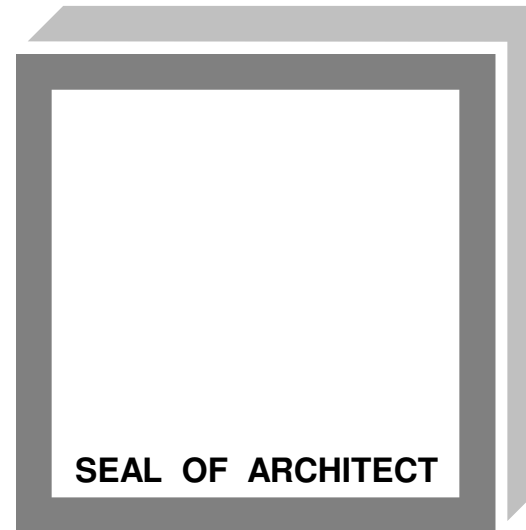
3 Building Section 3  
A4.0 1/4" = 1'-0"



2 Building Section 2  
A4.0 1/4" = 1'-0"



1 Building Section 1  
A4.0 1/4" = 1'-0"



ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS	
11/21/22	Revision 1
Date	Description

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

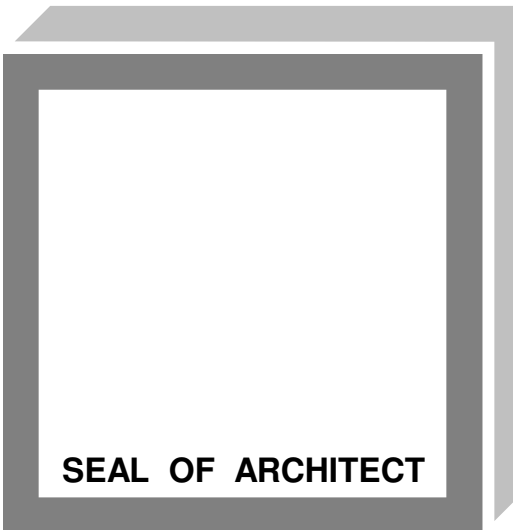
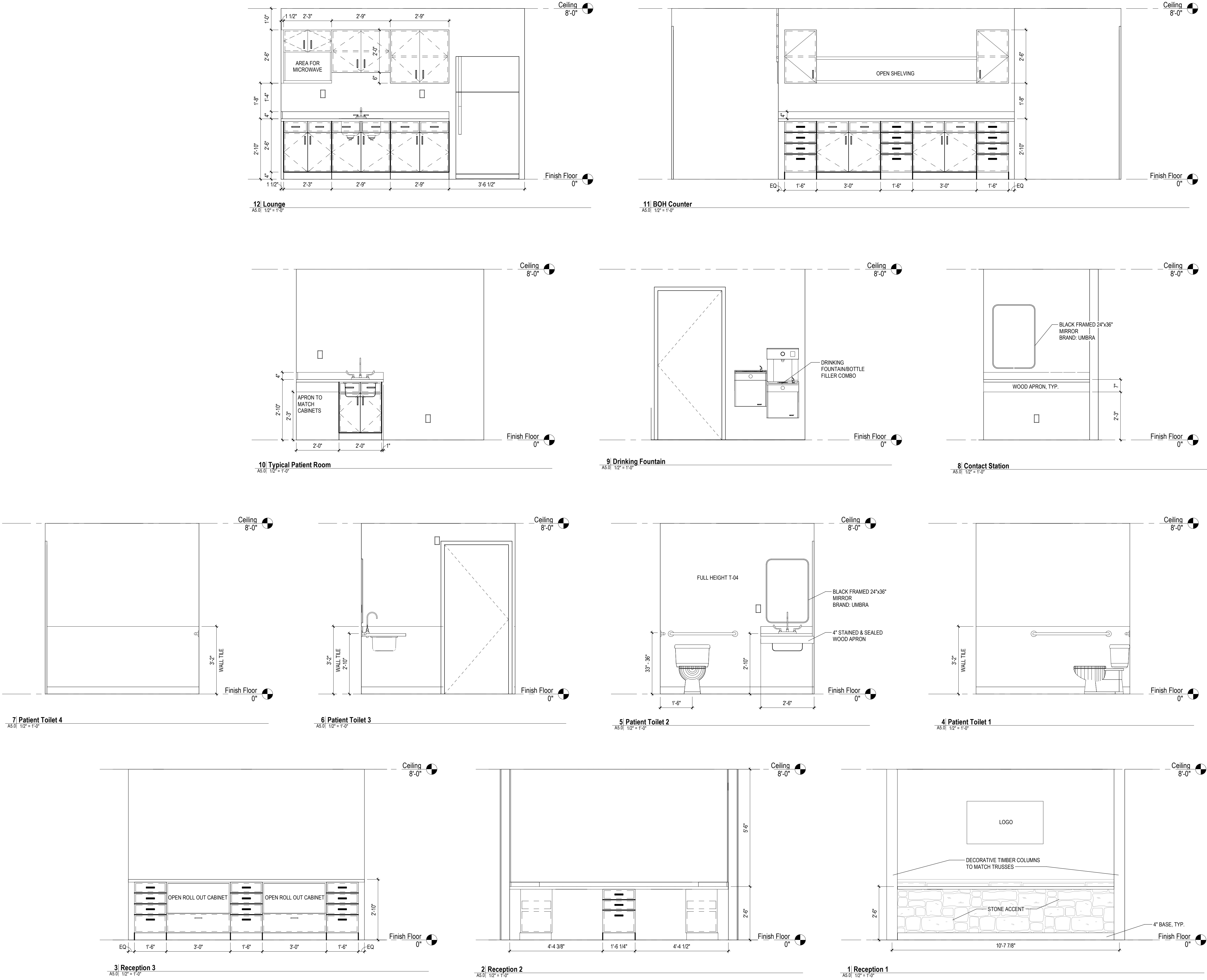
Drawing  
**Building Sections**

DRAWN BY: SJS  
CHECKED BY: BRP

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE 1/4" = 1'-0"  
SHEET NUMBER

**A4.0**





**ARCHITECT**  
**SEDGEWICK + FERWEDA ARCHITECTS**  
410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us  
Good clients + Good design + Great architecture

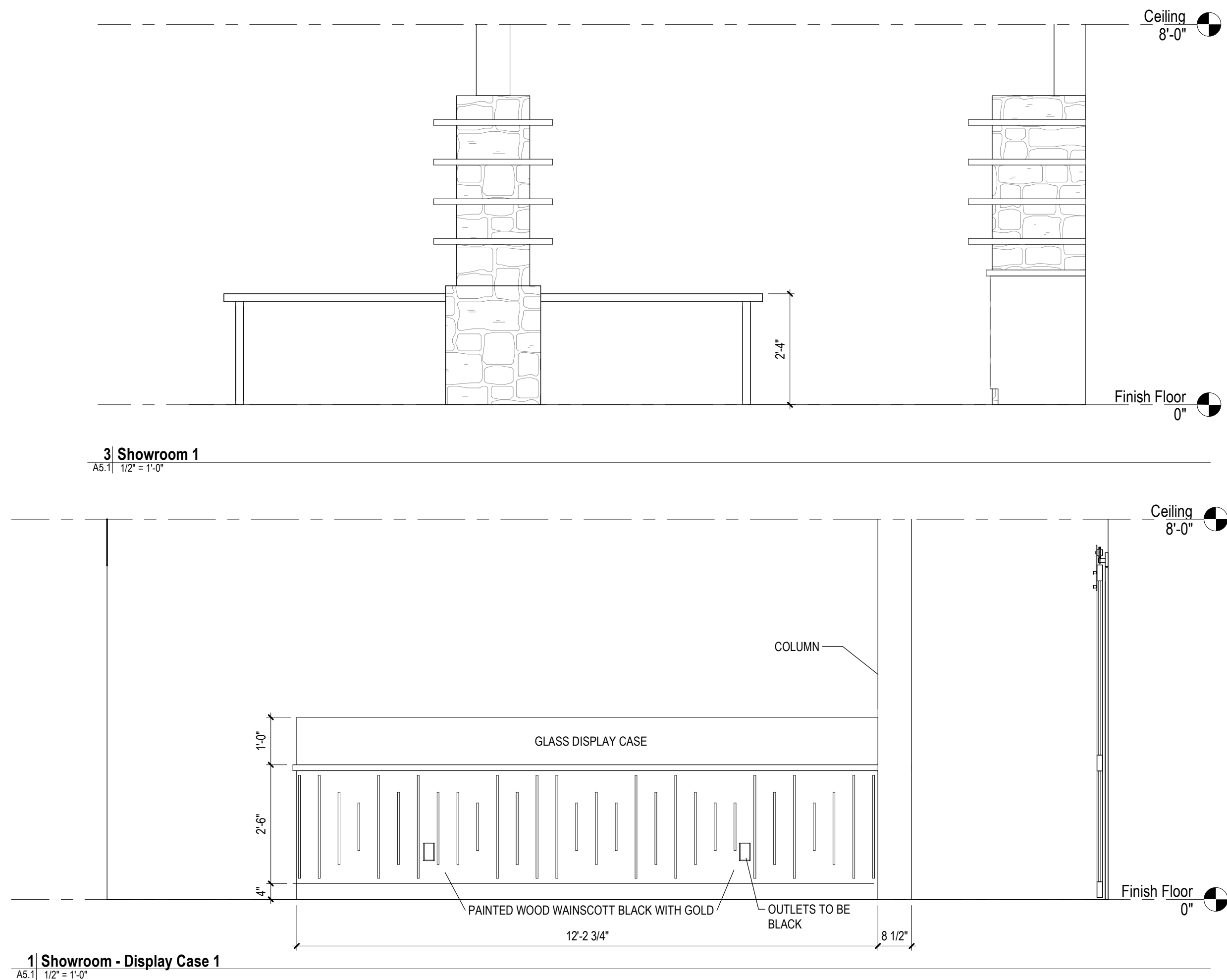
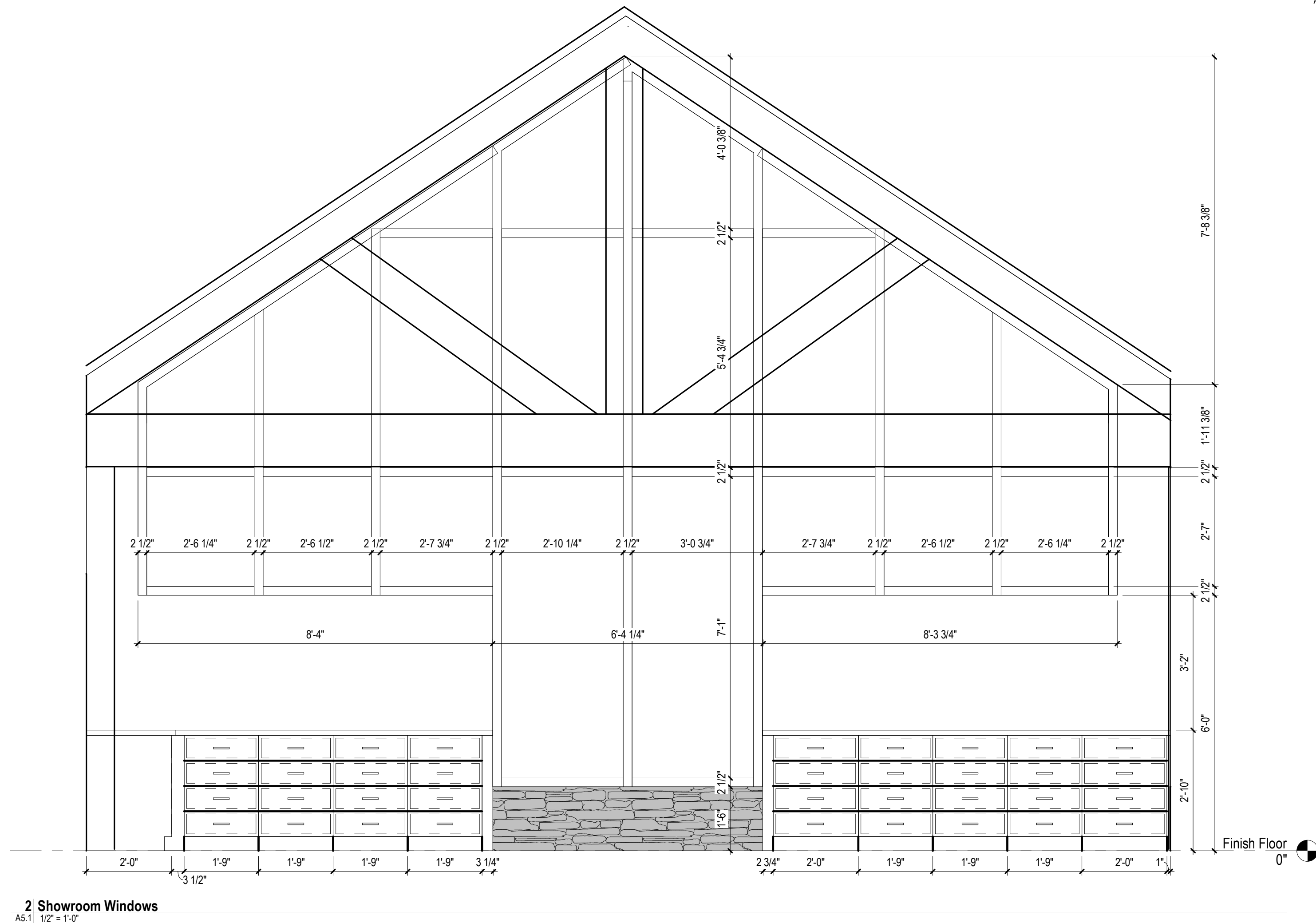
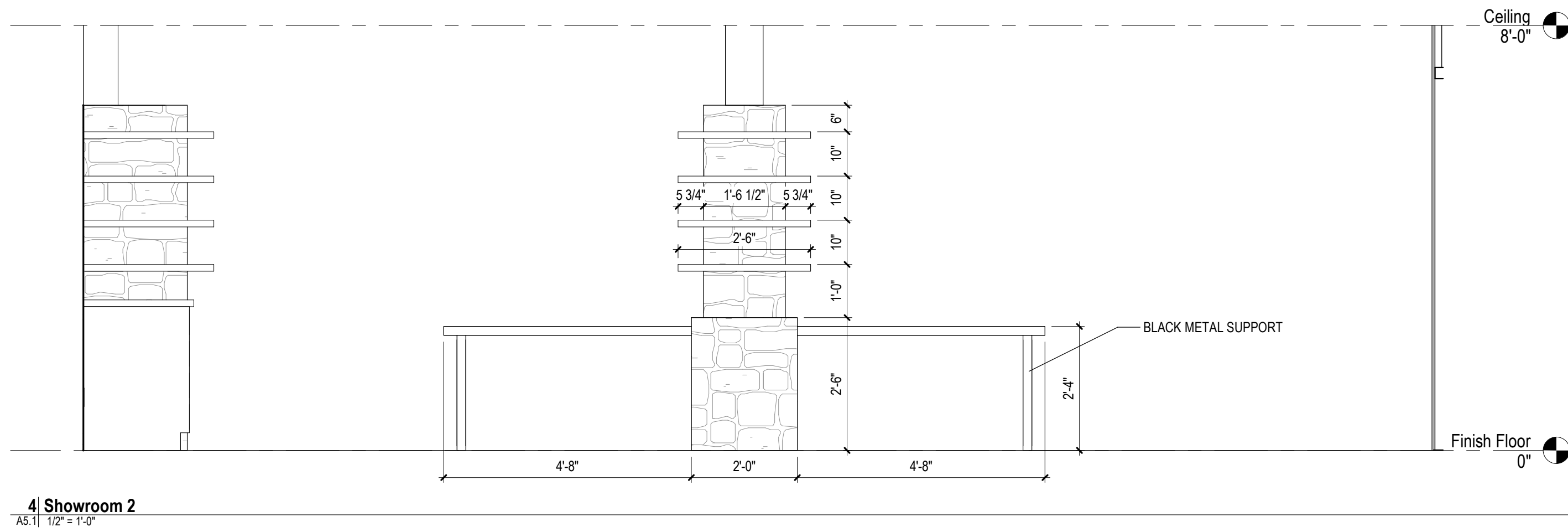
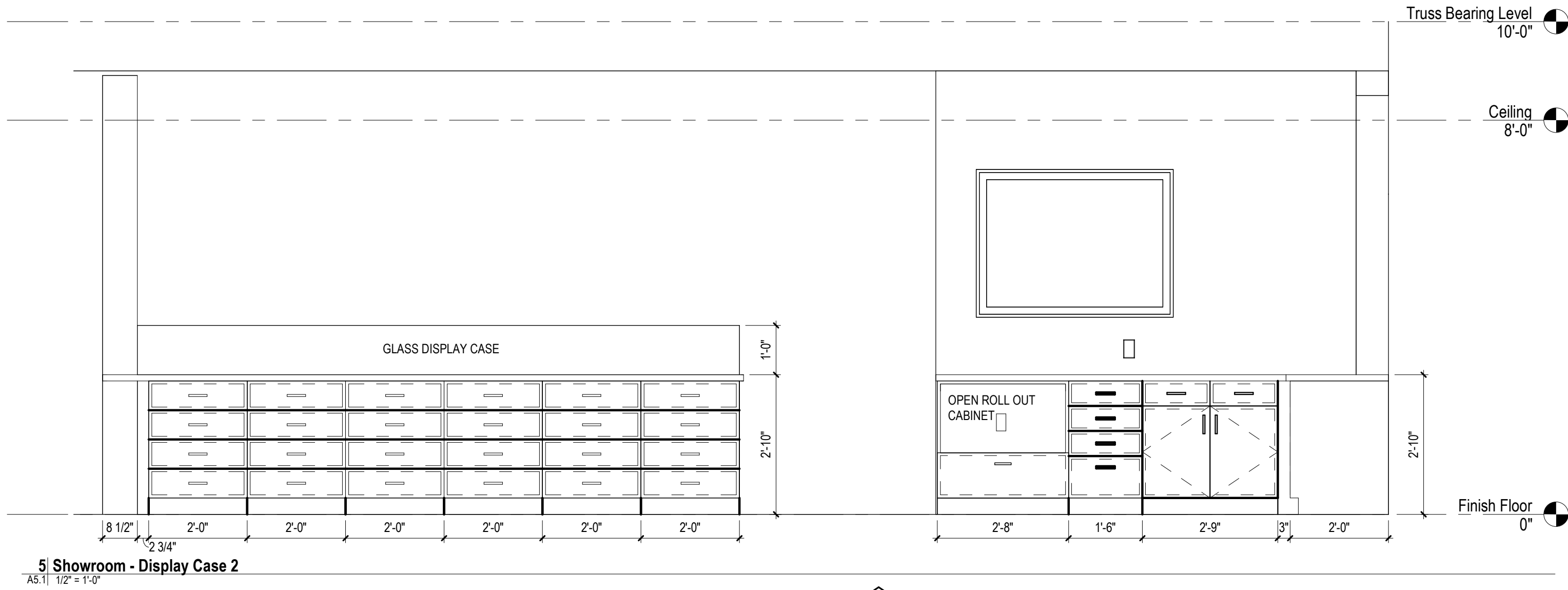
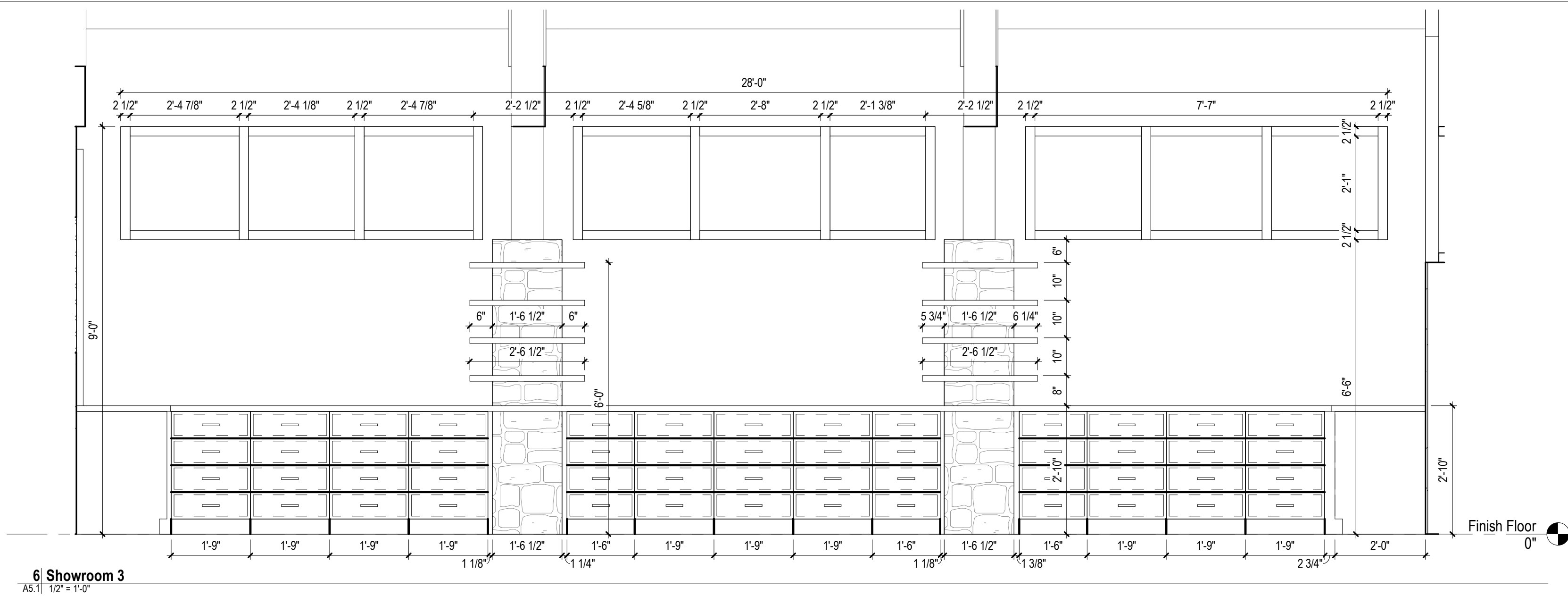
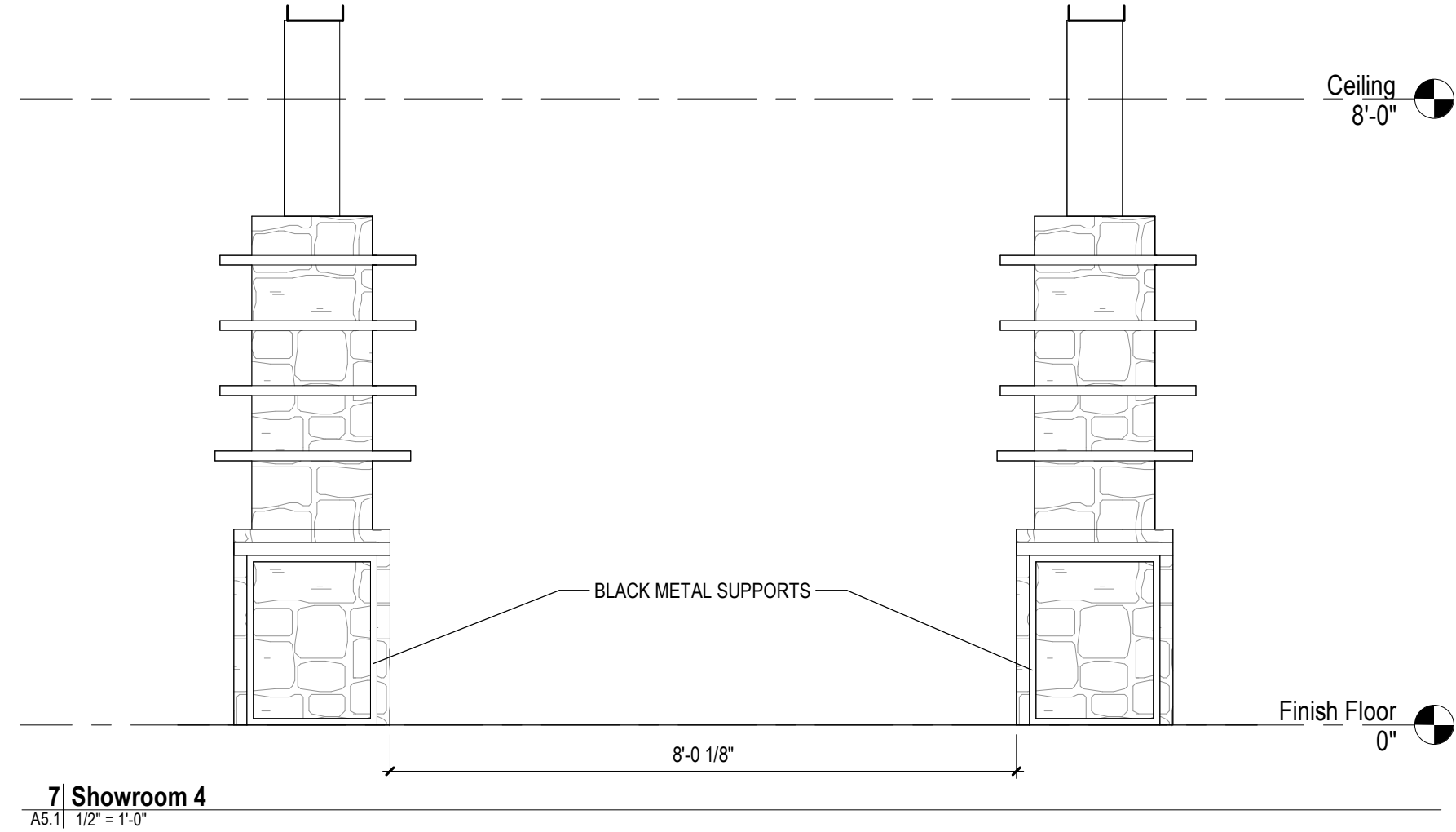


REVISIONS	
Date	Description

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**  
Drawing  
**Interior Elevations**

DRAWN BY: LJK  
CHECKED BY: BRP  
PROJECT NUMBER **21-041**  
DATE **10/25/2022**  
SCALE **1/2" = 1'-0"**  
SHEET NUMBER  
**A5.0**

11/22/2022 11:27:43 AM



ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS	
Date	Description

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

Drawing  
**Interior Elevations**

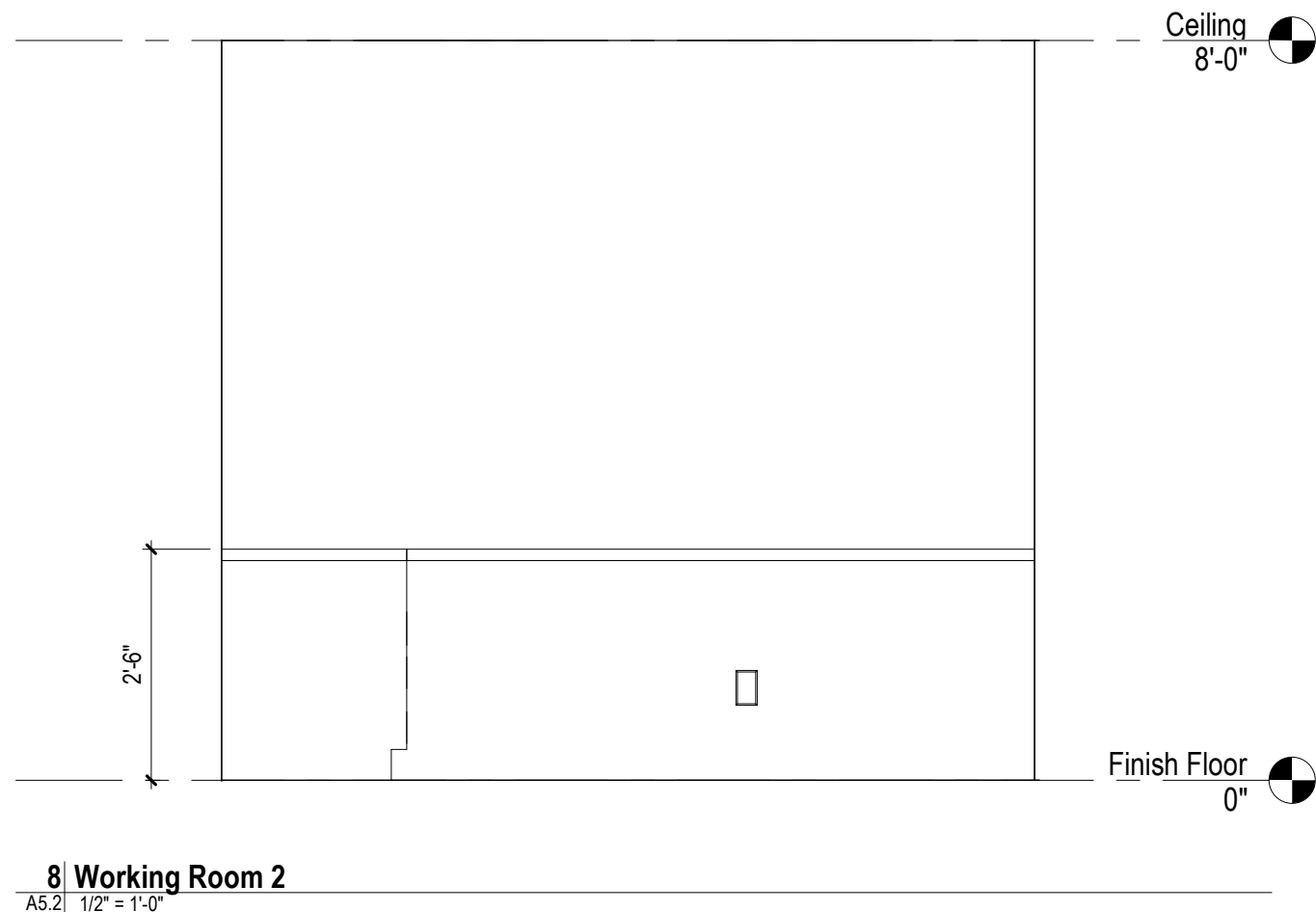
DRAWN BY: LJK  
CHECKED BY: BRP  
PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE 1/2" = 1'-0"  
SHEET NUMBER

**A5.1**

SEAL OF ARCHITECT

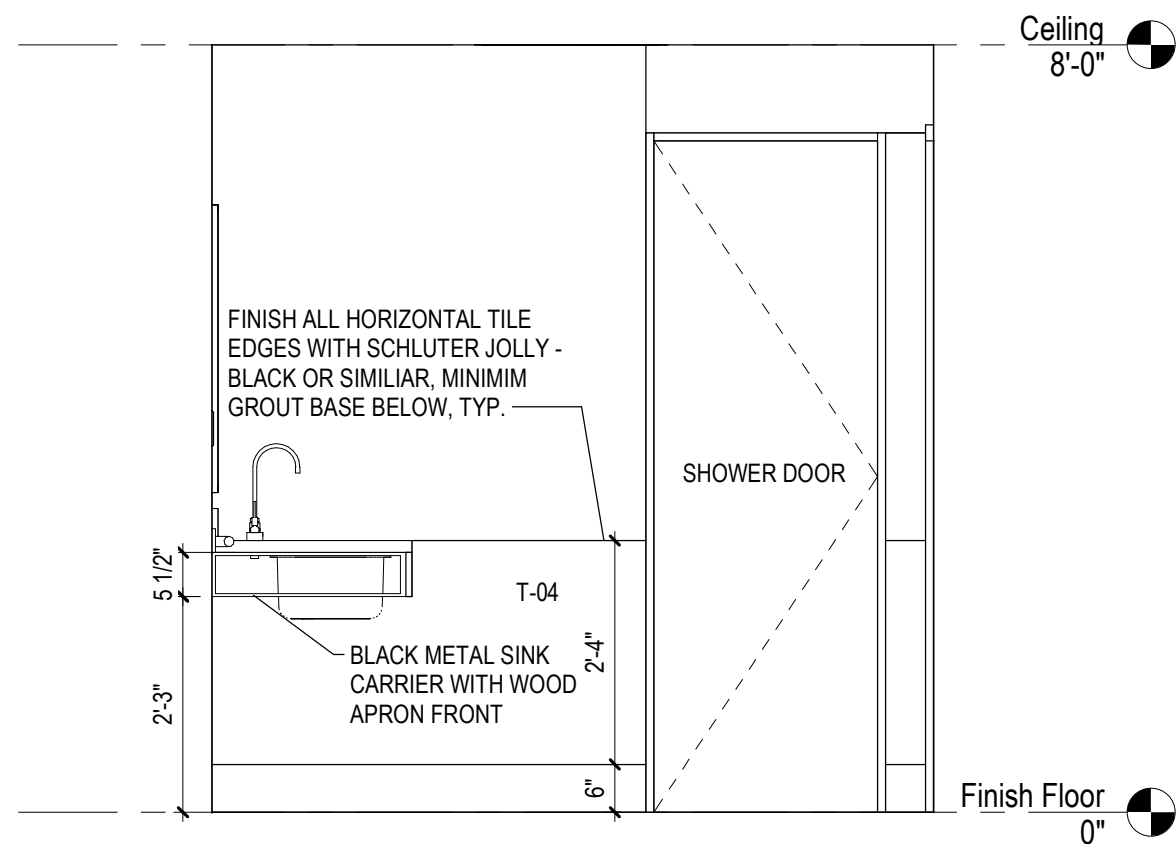


11/22/2022 11:27:44 AM



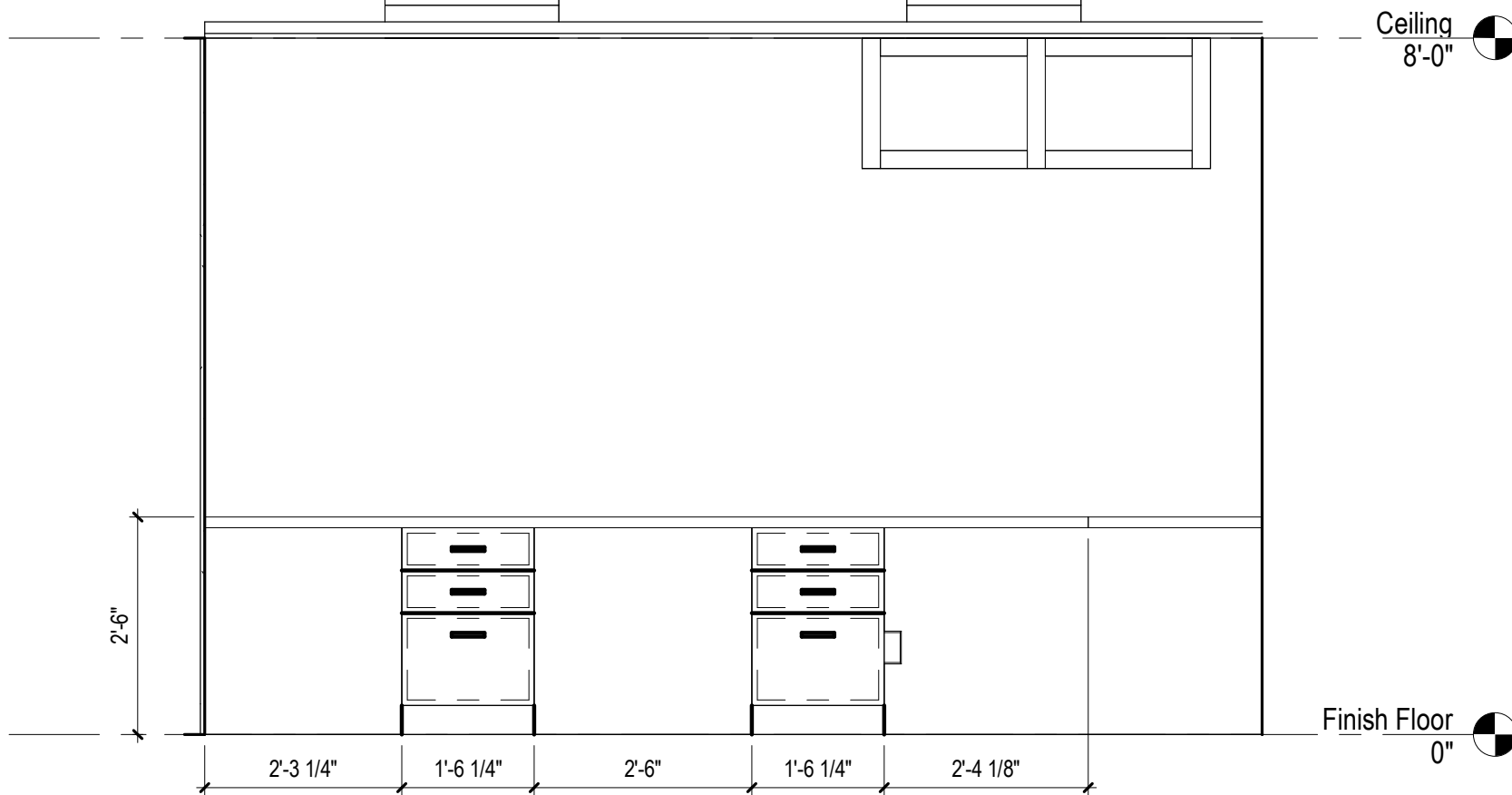
8 Working Room 2

A5.2 | 1/2" = 1'-0"



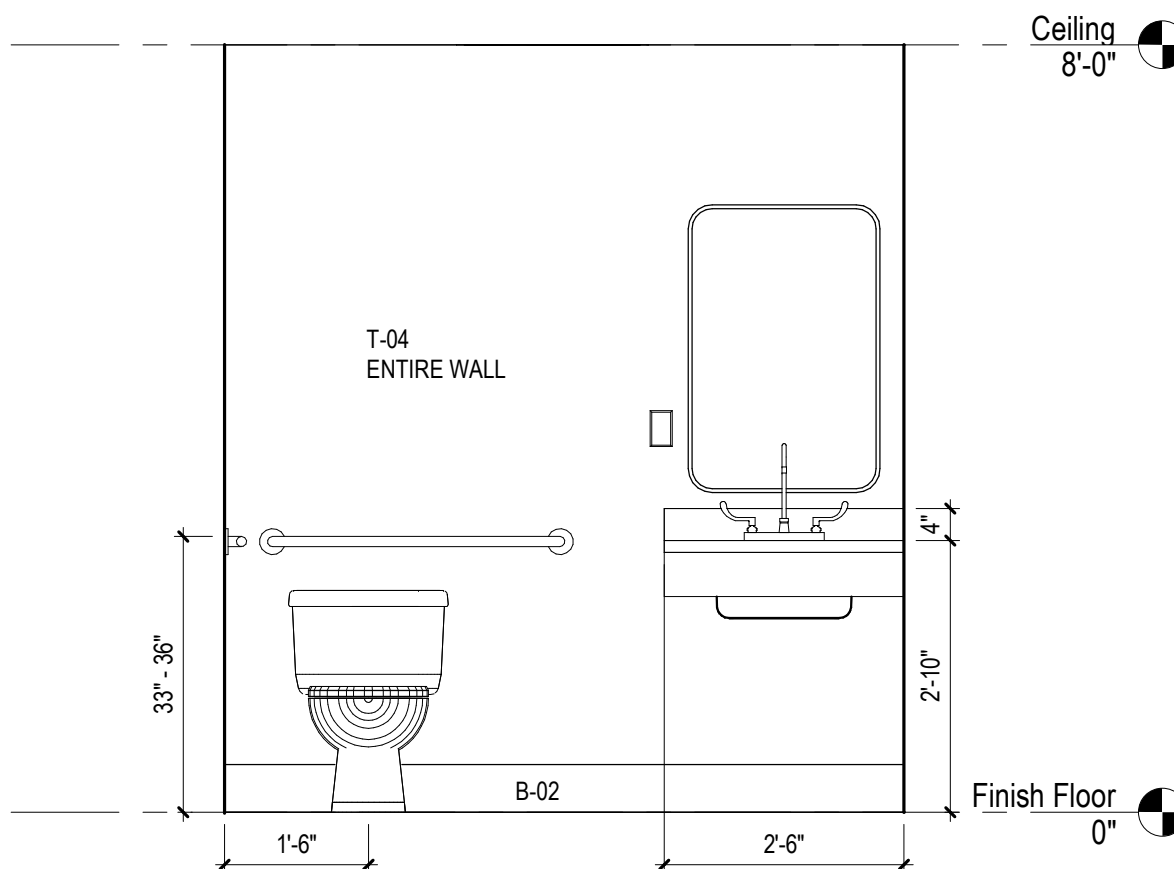
4 West Toilet 2

A5.2 | 1/2" = 1'-0"



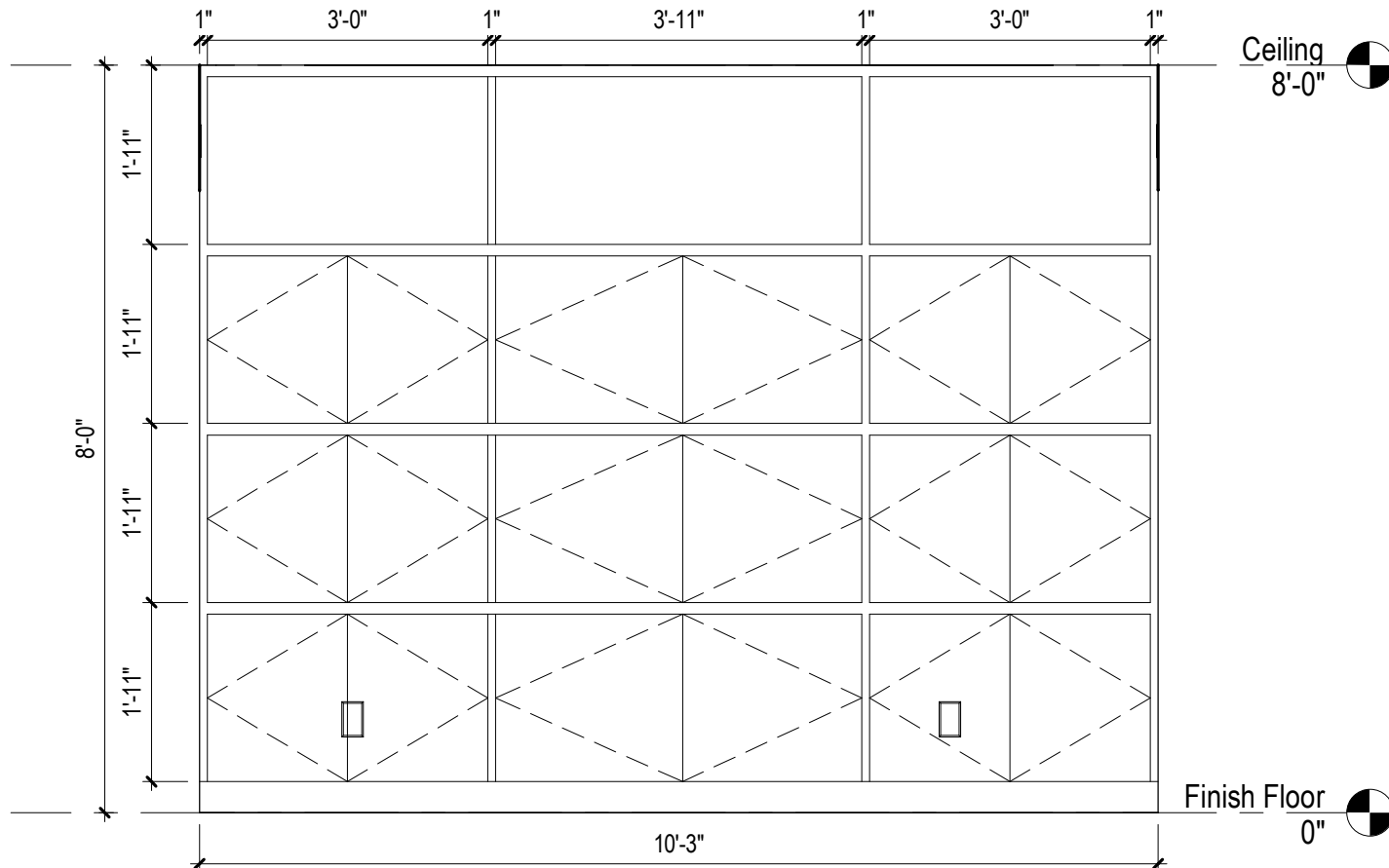
7 Working Room 1

A5.2 | 1/2" = 1'-0"



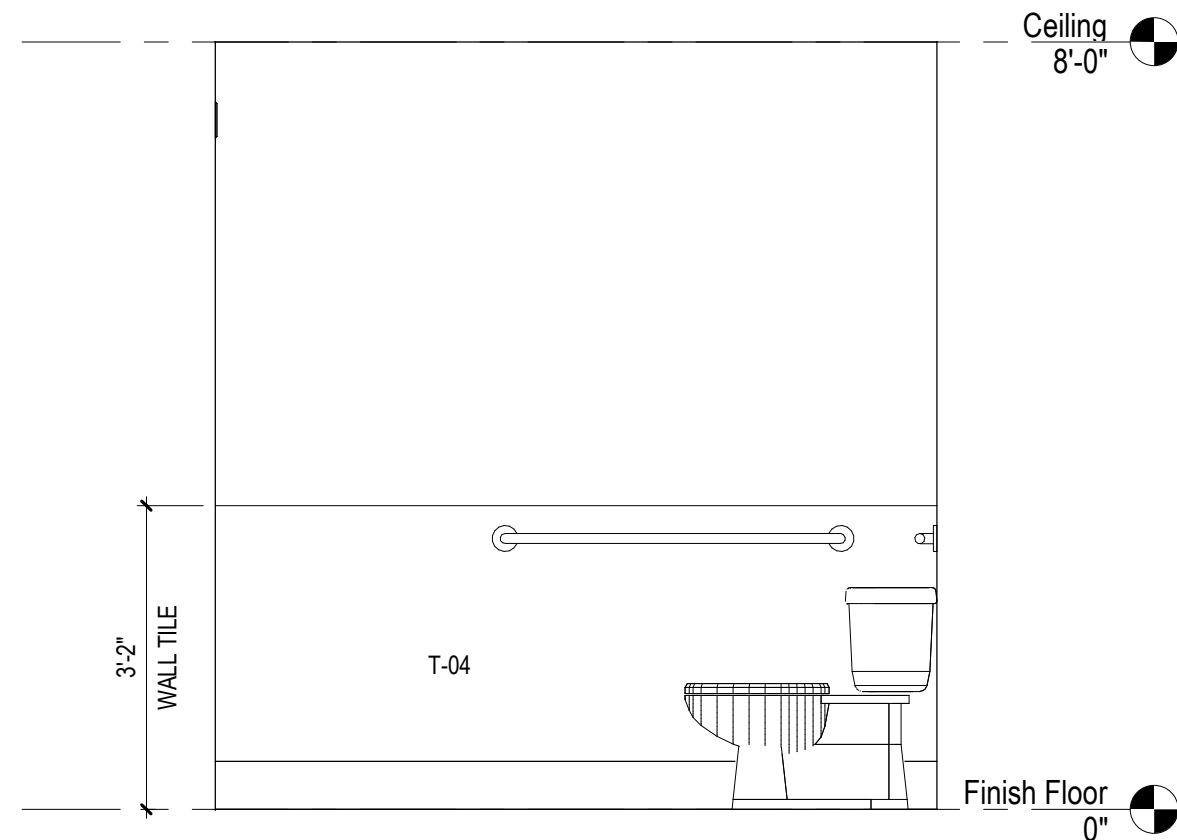
3 West Toilet 1

A5.2 | 1/2" = 1'-0"



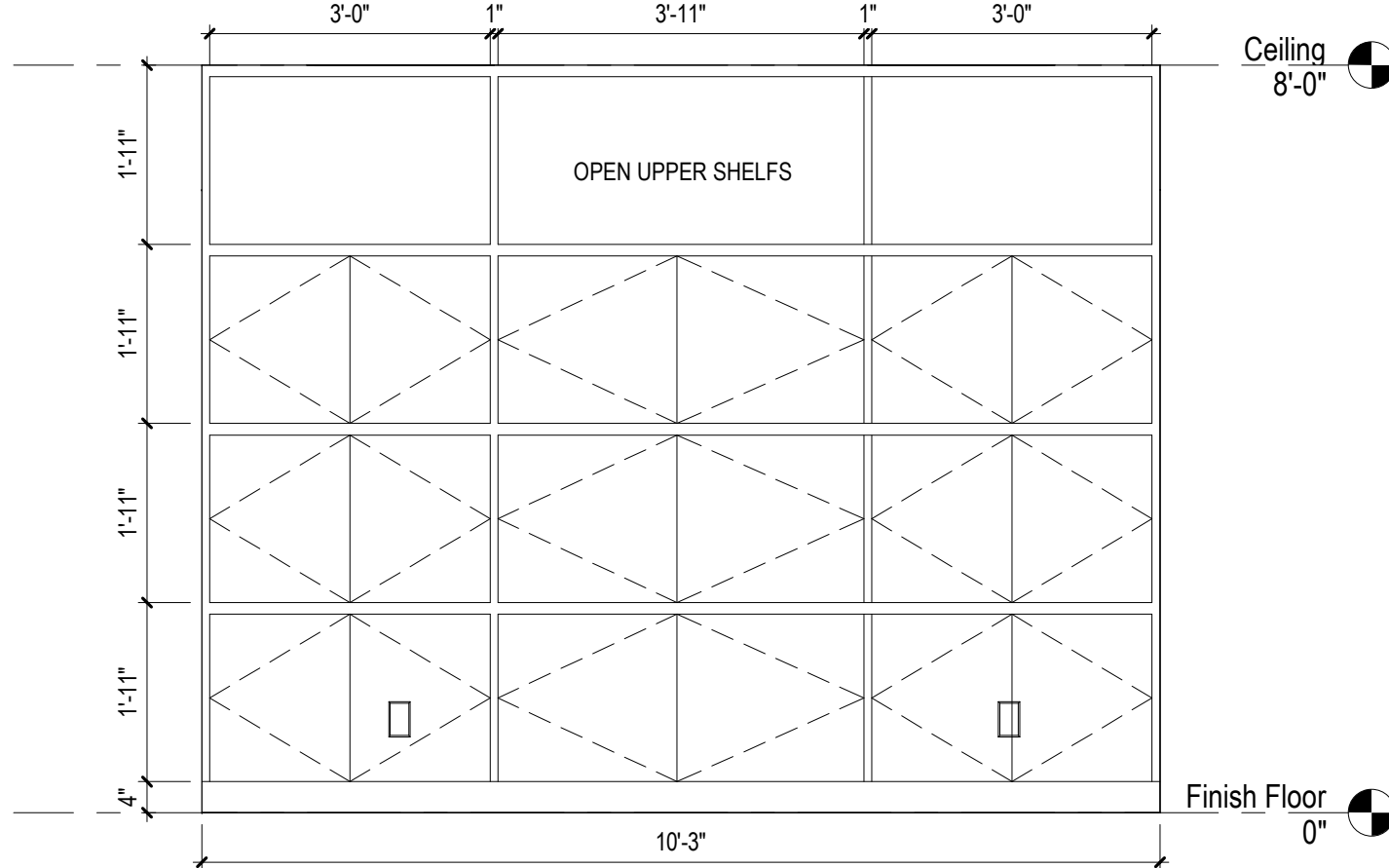
2 Contacts 2

A5.2 | 1/2" = 1'-0"



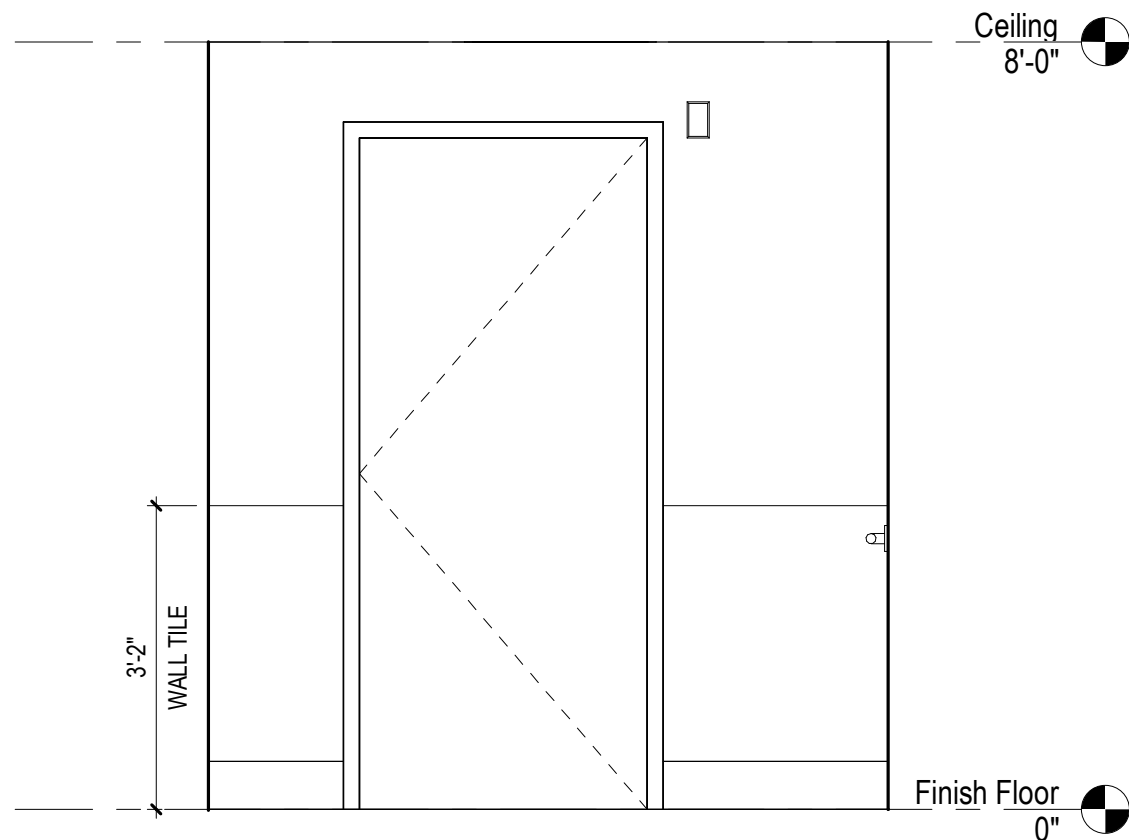
6 West Toilet 4

A5.2 | 1/2" = 1'-0"



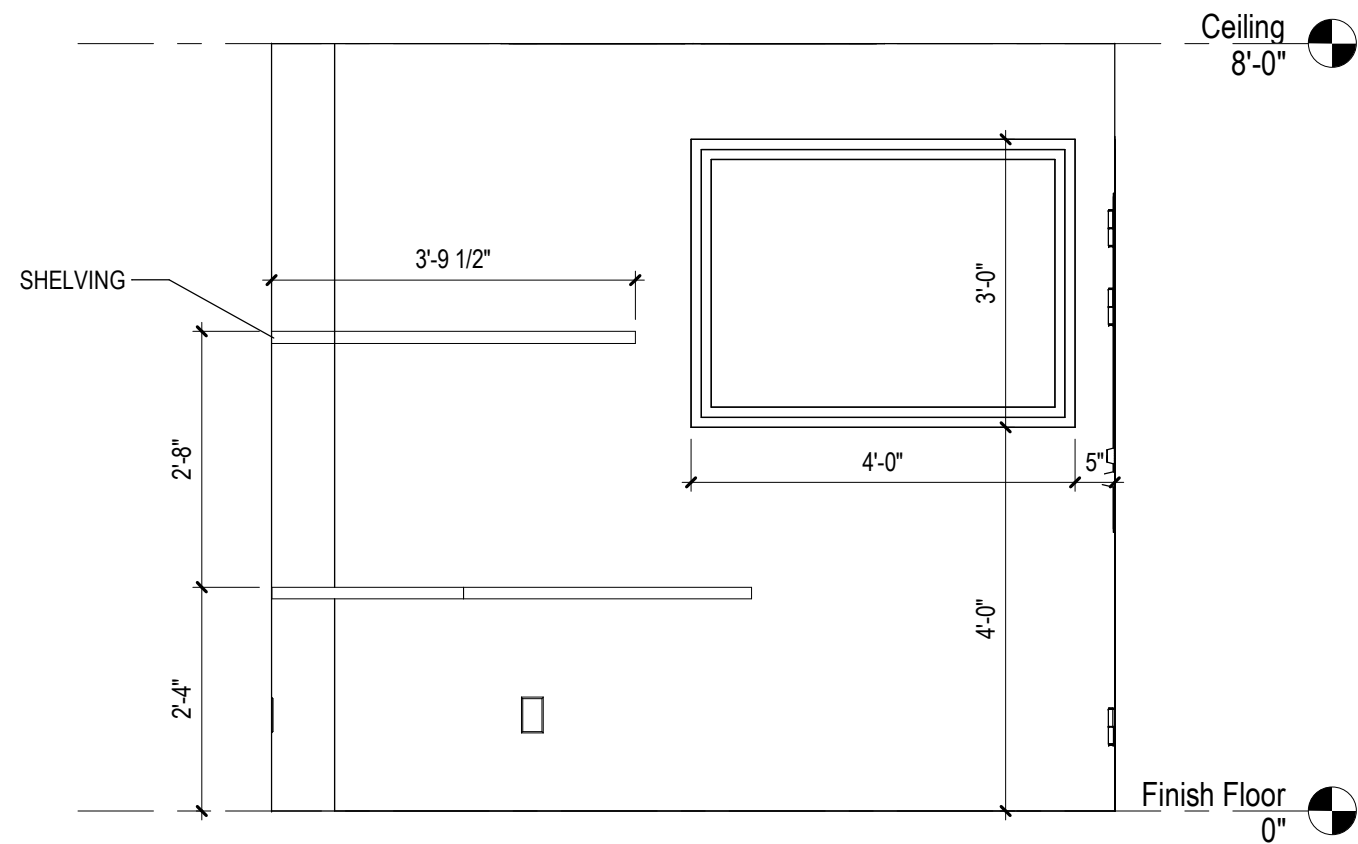
1 Contacts 1

A5.2 | 1/2" = 1'-0"



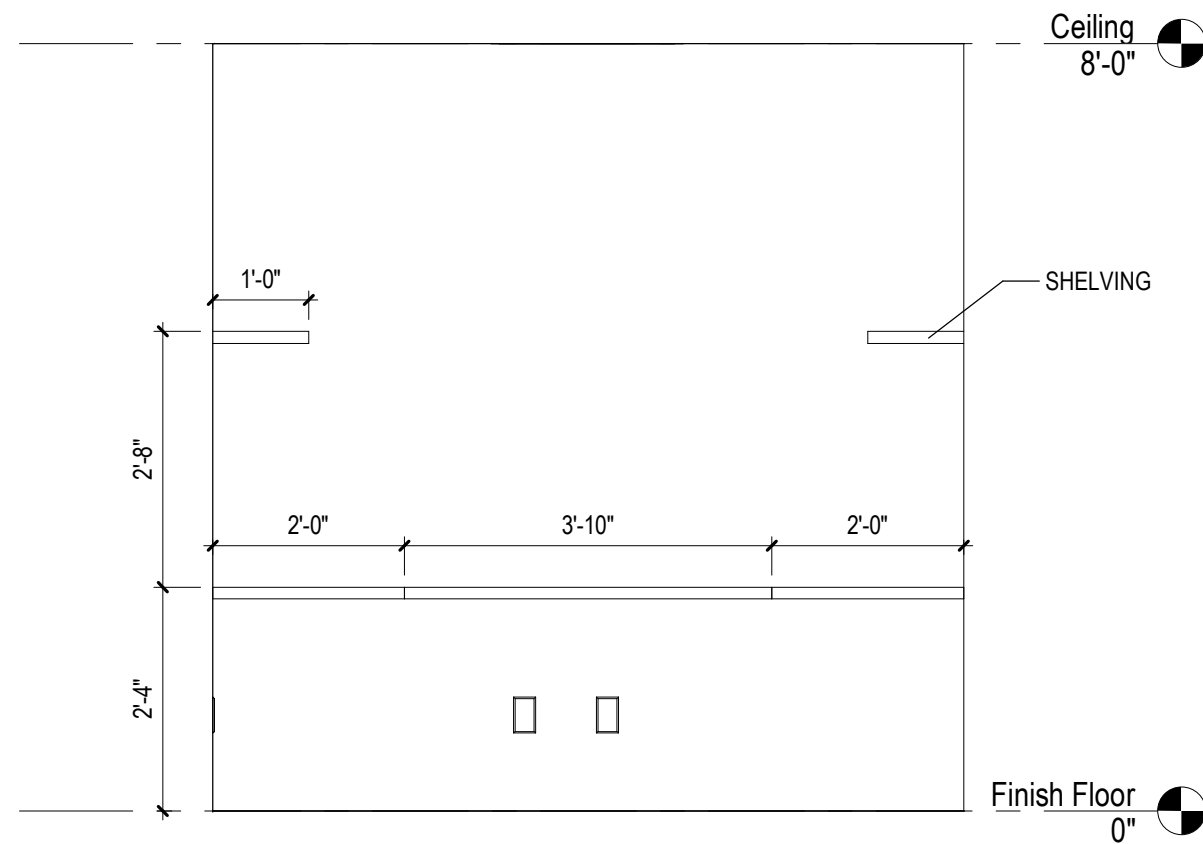
5 West Toilet 3

A5.2 | 1/2" = 1'-0"



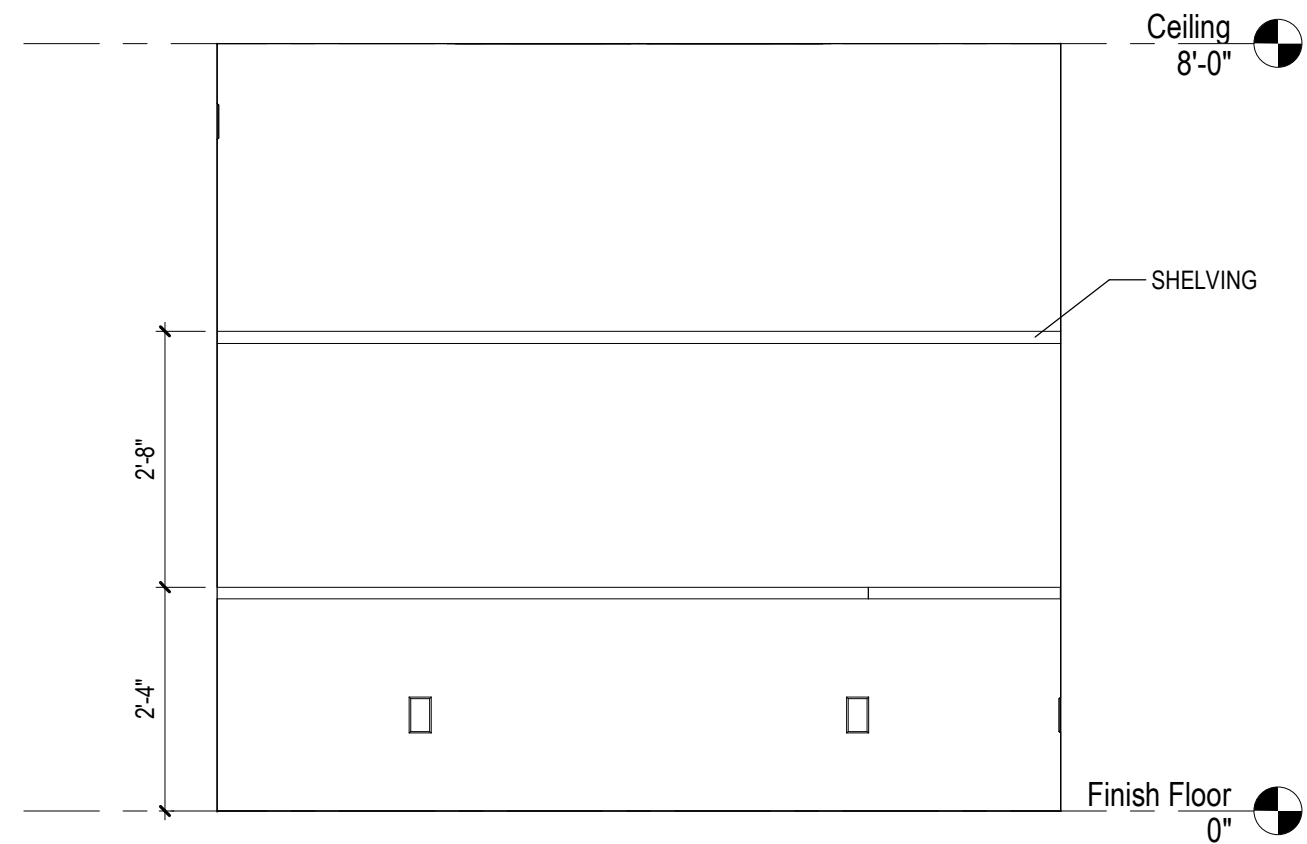
11 Repairs 3

A5.2 | 1/2" = 1'-0"



10 Repairs 2

A5.2 | 1/2" = 1'-0"



9 Repairs 1

A5.2 | 1/2" = 1'-0"

Project

DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Drawing

Interior Elevations

DRAWN BY: LJK  
CHECKED BY: BRP

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE 1/2" = 1'-0"  
SHEET NUMBER

A5.2

SEAL OF ARCHITECT

ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

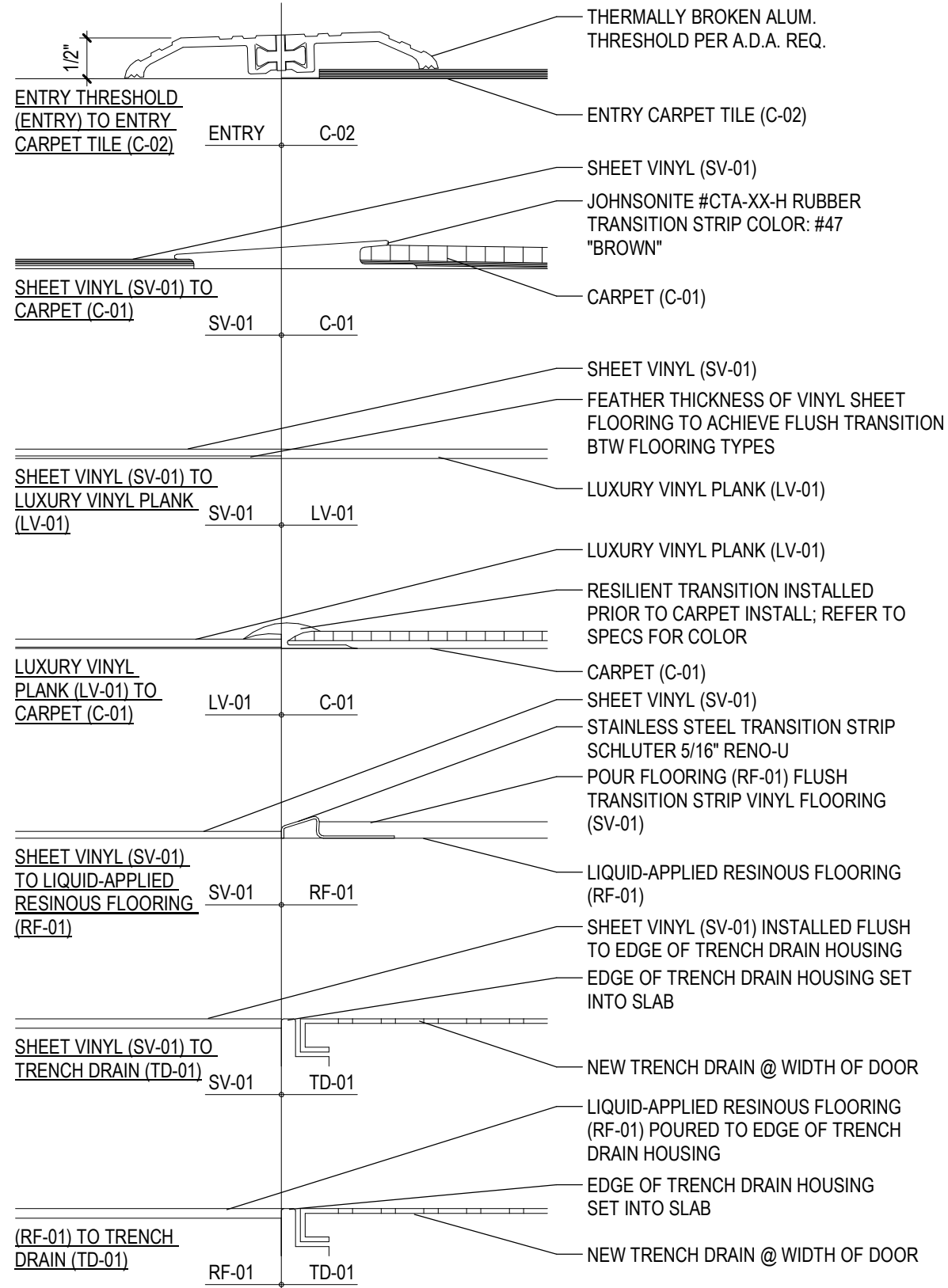
410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture

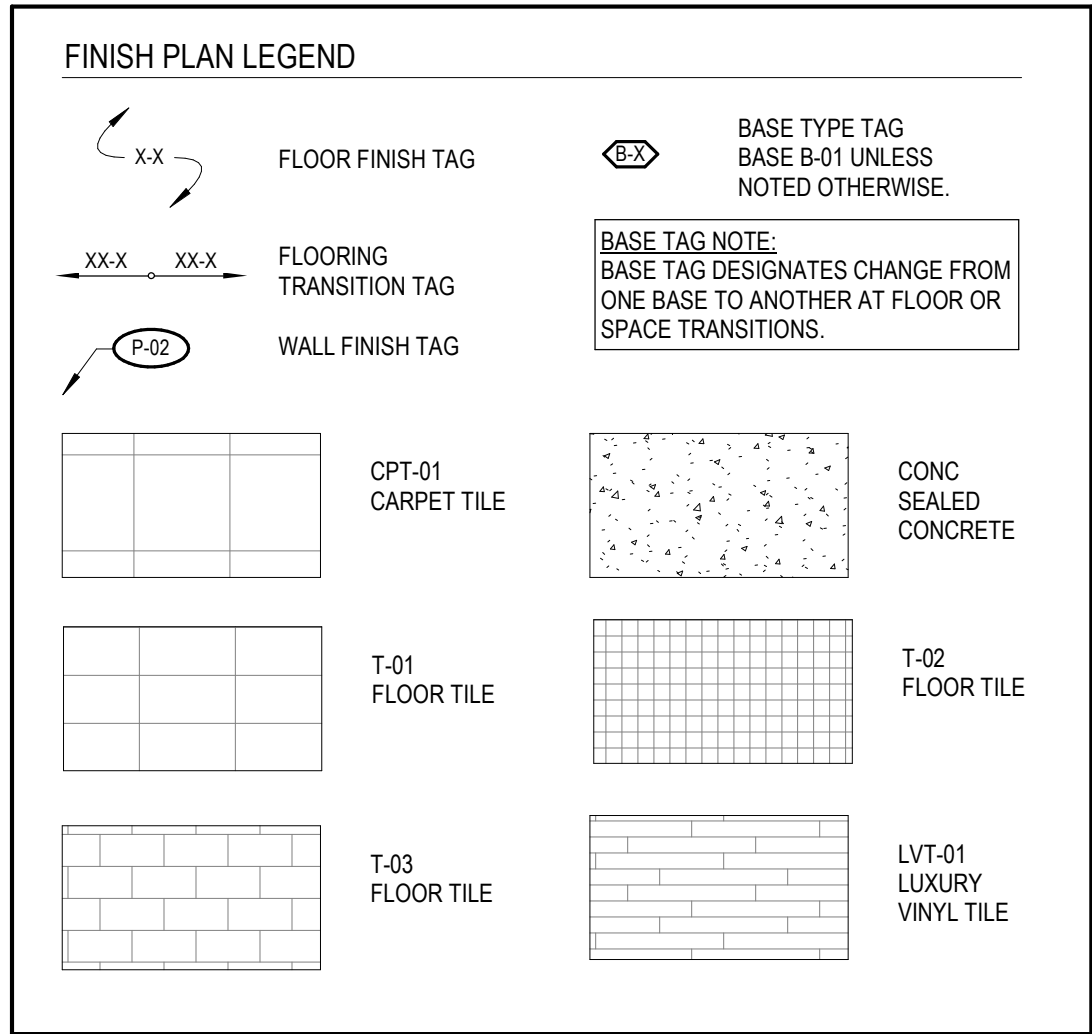


REVISIONS

Date Description

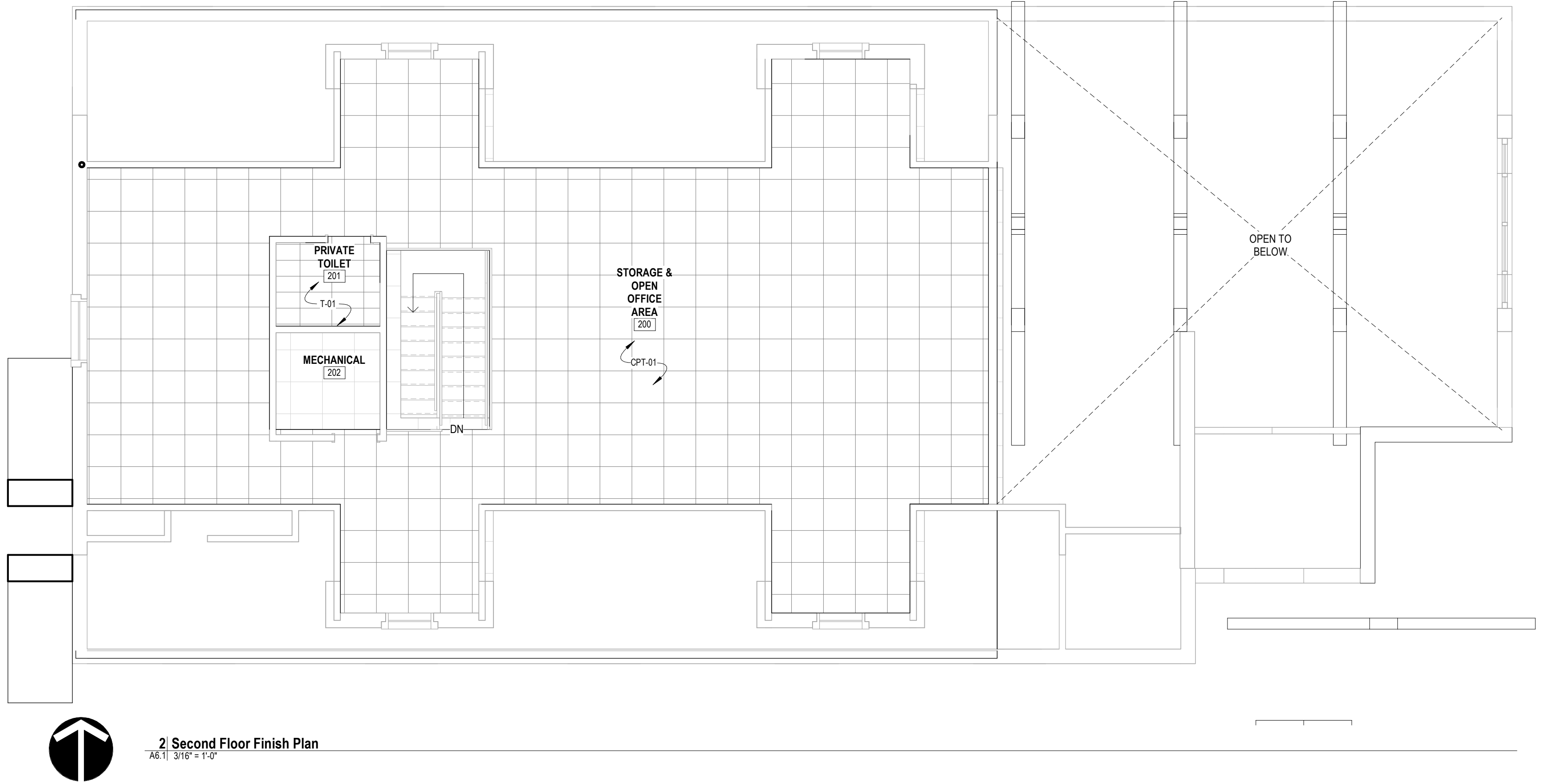


3 Flooring Transition Details  
A6.1 6" = 1'-0"

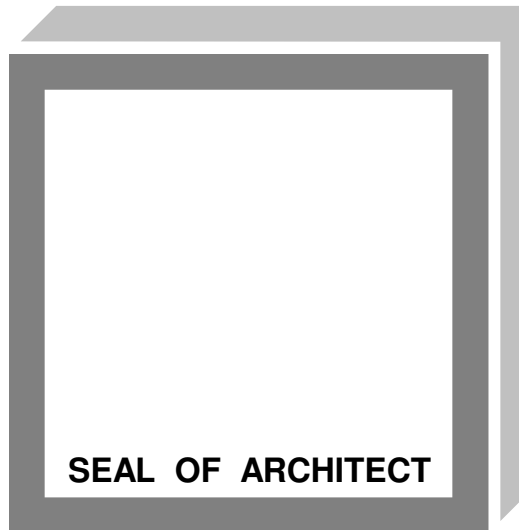
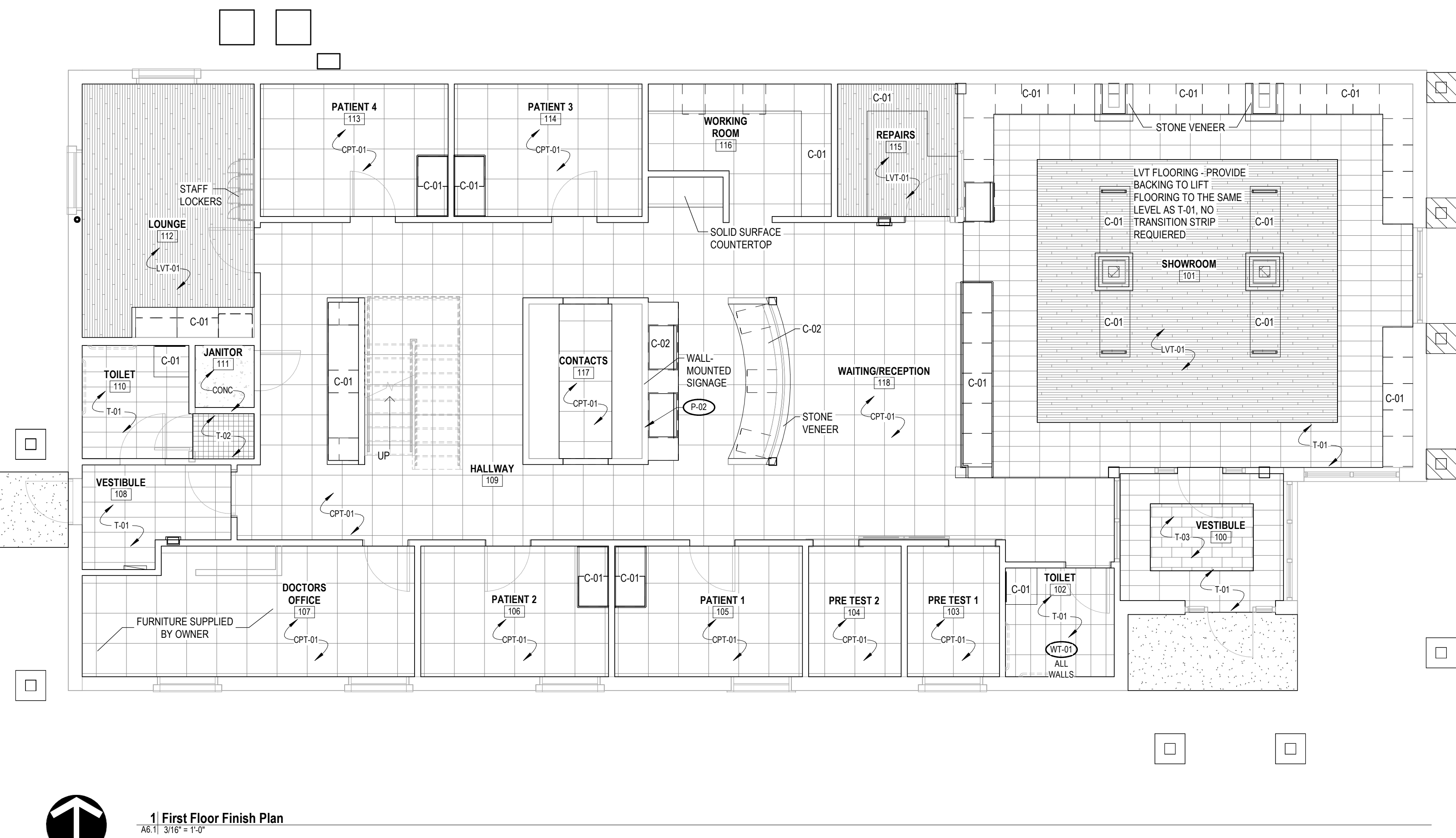


FLOOR MATERIAL TAKEOFF	
NAME	AREA
LVT-01	594 SF
T-01	553 SF
T-02	12 SF
T-03	30 SF
Grand total: 11	1189 SF

AREAS DO NOT INCLUDE WASTE: ARE NOT TO BE USED TO ORDER MATERIAL



STANDARD FINISHES SCHEDULE	
<b>FLOORING</b>	<b>PAINT:</b>
<b>CARPET TILE:</b>	P-01 FIELD COLOR SHERWIN WILLIAMS 'SW 6253' 'OLYMPUS WHITE' NO-VOC / EGG-SHELL
CPT-01 MOHAWK COLLECTION: OPTIC RESET STYLE: FIELD OF VIEW - LIGHT - 12" X 36" PLANKS COLOR: 979 SILHOUETTE LIGHT INSTALLATION: BRICK ASHLAR	P-02 ACCENT COLOR SHERWIN WILLIAMS 'SW 6255' MORNING FOG' NO-VOC / EGG-SHELL
<b>LUXURY VINYL TILE:</b>	P-03 DOOR FRAMES SHERWIN WILLIAMS 'SW 6258' 'TRICORN BLACK' LOWNO-VOC / SEMI-GLOSS HOLLOW METAL DOOR/WINDOW FRAMES
LVT-01 DIVINE FLOORING STYLE: JOURNEY 7" X 48" PLANK 3/16" THICKNESS COLOR: MOONDANCE - OAK	ALL PAINT COLORS TO BE FIELD VERIFIED BY OWNER INCLUDING DRAW DOWNS
<b>PORCELAIN FLOOR TILE:</b>	<b>COUNTERTOPS:</b>
T-01 ATLAS CONCORD SERIES: OUTLAND 12X24 COLOR: DARK BATHROOM TILE - HERRINGBONE LAYOUT OTHER AREAS - BRICK ASHLAR	CT-01 WILSONART SOLID SURFACE COLOR: MORNING ICE
T-02 ATLAS CONCORD SERIES: OUTLAND MOSAIC 2X2 COLOR: DARK	CT-02 CORIAN QUARTZ COLOR: ONYX CARRARA SPECIFIC LOCATION: RECEPTION DESK AND BACK COUNTER
T-03 ATLAS CONCORD SERIES: EON 12X24 COLOR: CORINTHIAN GRAY	<b>WALL TILE</b>
<b>GENESEE TILE:</b> CONTACT BILL KOHN 989-205-6000 BKOHNB@GCTILE.COM	T-04 INTERCERAMIC COLLECTION: WALL TILE 3X6 SUBWAY TILE
<b>SEALED CONCRETE:</b> CONC DURA-FLEX DURA-SHIELD COLOR: CLEAR CONTACT: DURA-FLEX, REFER TO SECTION 6: FBO	<b>ACOUSTIC CEILING SYSTEMS:</b>
<b>BASE:</b>	ACT-01 CEILING TILE ARMSTRONG "CIRRUS" SQUARE LAY-IN 24" X 24" X 7/8" WHITE 70 NRC / 40 CAC PRELUDE 15/16" GRID (WHITE)
B-01 ROPPE RUBBER BASE CONTOURS COLOR: SMOKE CONTOUR PROFILE - SIMPLICITY 4" BASE	<b>CABINETS</b>
B-02 ATLAS CONCORD SERIES: OUTLAND COVE BASE 6X12 COLOR: DARK	WELLBORN CABINETS - PREMIER SERIES OWNER TO APPROVE FINISHES CABINET HARDWARE TO BE BLACK



ARCHITECT

**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS	
11/21/22	Revision 1
Date	Description

Project

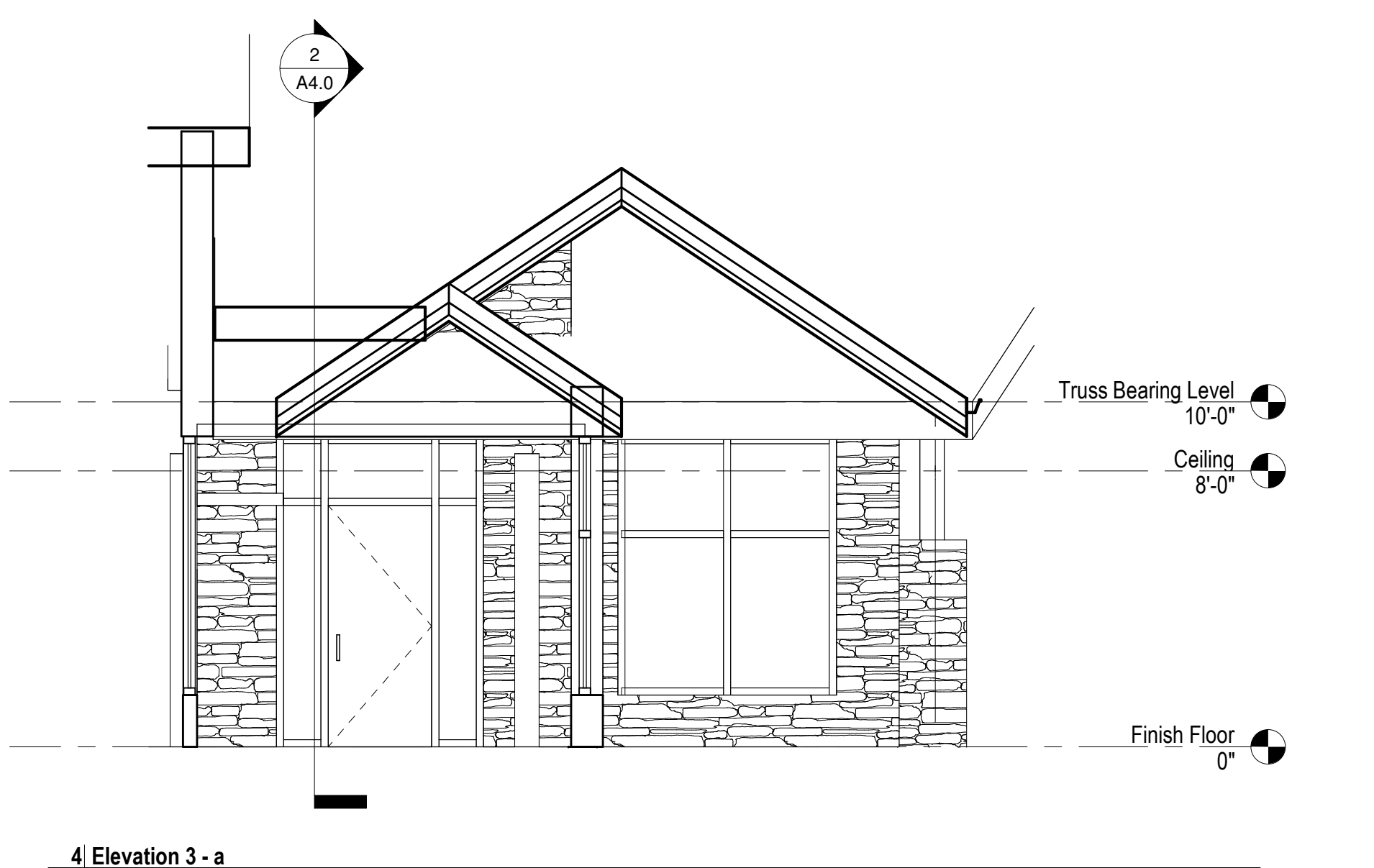
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

Drawing

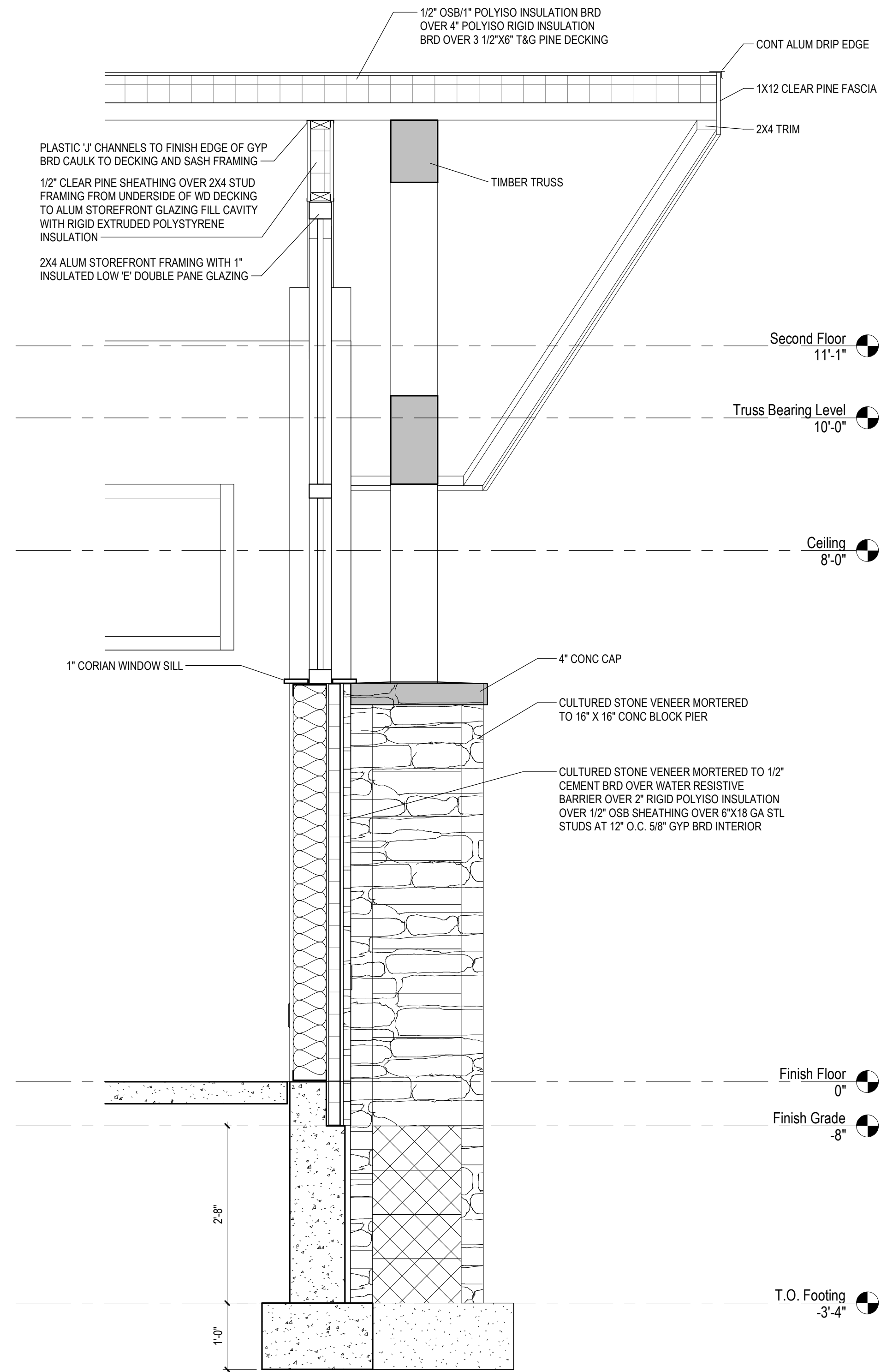
**Finish Plans**

DRAWN BY:	BRF
CHECKED BY:	BRF
PROJECT NUMBER	21-041
DATE	10/25/2022
SCALE	As indicated
SHEET NUMBER	A6.1





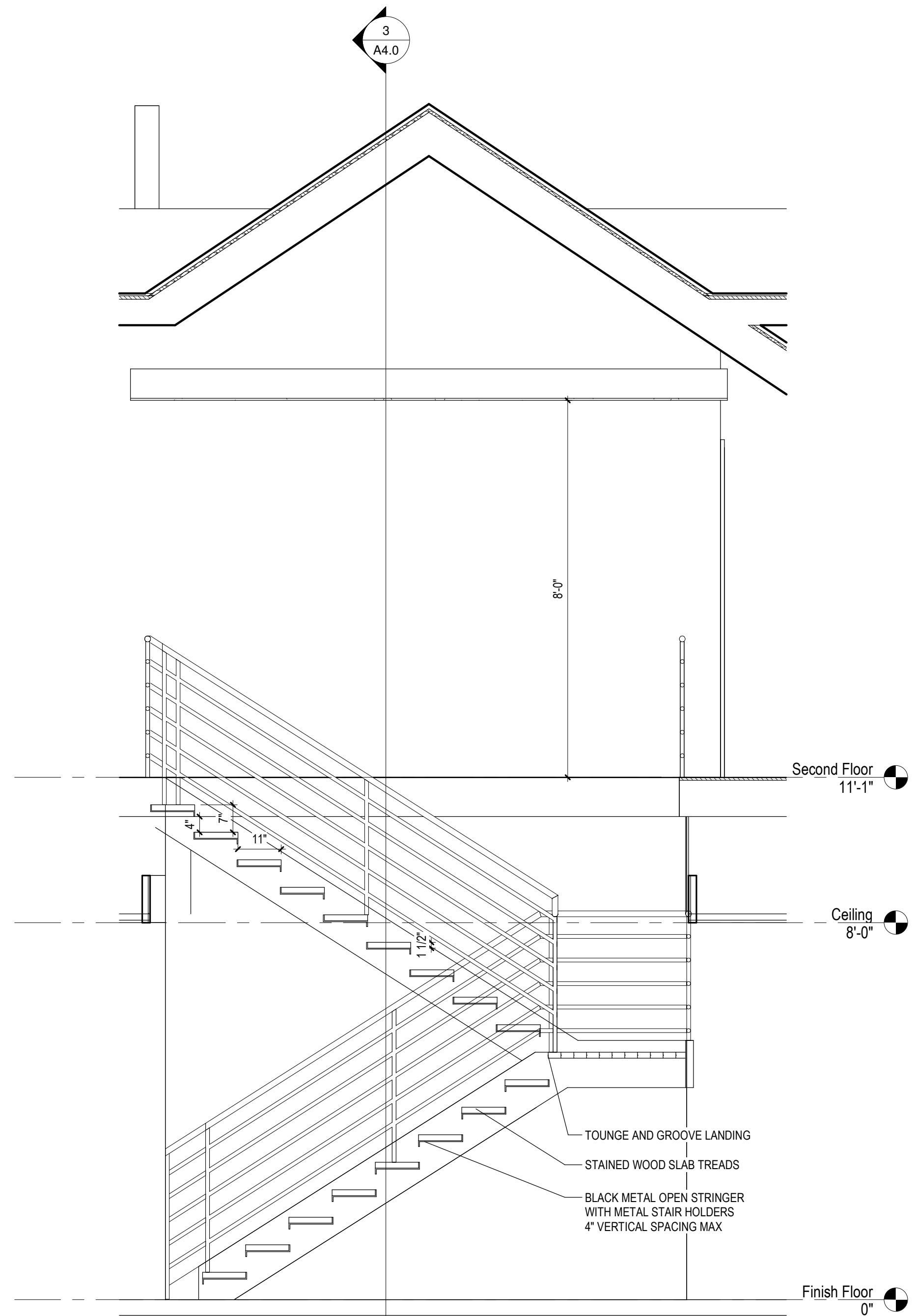
4' Elevation 3 - a  
A8.0 1/4" = 1'-0"



3' Section 2  
A8.0 3/4" = 1'-0"



2' Elevation 1 - a  
A8.0 1/4" = 1'-0"



1' Stair Section 1  
A8.0 1/2" = 1'-0"

SEAL OF ARCHITECT

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS

Date	Description
11/21/22	Revision 1

Project  
**DIAMOND OPTICAL CARE OF FENTON**  
**1331 N. LEROY ST, FENTON, MI 48430**

Drawing  
**Details**

DRAWN BY: LJK  
CHECKED BY: MJM

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

**A8.0**



PLUMBING NOTES:

SCOPE

1. THE WORK TO BE PERFORMED UNDER THE PLUMBING PLANS AND SPECIFICATIONS CONSISTS OF FURNISHINGS ALL MATERIAL AND LABOR FOR THE COMPLETE INSTALLATION FOR ALL PLUMBING SYSTEMS FOR TENANT SPACES. THE WORK SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWINGS:
- A. COLD AND HOT WATER SYSTEMS
  - B. DRAINAGE AND VENT SYSTEMS
  - C. INSULATION
  - D. GAS PIPING
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADE TO AVOID CONFLICT AND TO FACILITATE THE WORK WITHOUT CAUSING UNNECESSARY DELAYS. IMMEDIATELY REPORT ANY DISCREPANCIES, IN WRITING, TO THE ENGINEER. ALL CHANGES AND/OR ALTERATIONS REQUIRE REVIEW AND APPROVAL BY THE ENGINEER.
3. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT VENDOR AND PROVIDE FOR ALL PIPING, VALVES, CONNECTIONS, ETC. AS INDICATED.

GENERAL

1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL STANDARD PLUMBING CODE, MPC-2015, ALL LOCAL CODES, AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK MATERIALS AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
3. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
4. LOCATIONS OF EXISTING EQUIPMENT, PIPING, VENTS, ETC. HAVE BEEN TAKEN FROM BEST AVAILABLE INFORMATION. THE DRAWINGS ARE INTENDED TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR ASSUME THAT ALL COMPONENTS ARE SHOWN. HE SHALL VISIT THE SITE TO DETERMINE THE TOTAL EXTENT OF REMOVALS AND NEW WORK AS DIAGRAMMED ON THE PLANS. EXTRA COMPENSATIONS FOR FAILURE TO COMPLY WITH THE ABOVE STATEMENT WILL NOT BE CONSIDERED.
5. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH A COMPLETE SET OF M/P/E ARCHITECTURAL, AND EQUIPMENT VENDOR DESIGN DRAWINGS IF APPLICABLE. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEERS OFFICE.
6. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES REQUIRED.
7. ALL PLUMBING FIXTURES SHALL BE SEPARATELY VALVED
8. ALL WATER BRANCHES AND RISERS SHALL BE SEPARATELY VALVED.
9. CONTRACTOR SHALL MAKE ALL PLUMBING CONNECTIONS REQUIRED TO EQUIPMENT SUPPLIED BY OTHERS.
10. CONTRACTOR SHALL PROVIDE AND INSTALL ALL HOT AND COLD WATER CONNECTIONS TO THE PLUMBING FIXTURES.
11. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR THE INSTALLATION OF METAL ACCESS DOORS BY: MILCOR STYLE "DW" (NON FIRE RATED) OR STYLE "VFR" (1 1/2 HOUR FIRE RATED) AT ALL LOCATIONS REQUIRED TO ACCESS VALVES, DEVICES, ETC. CONCEALED ABOVE CEILINGS OR IN WALLS.
12. CONTRACTOR SHALL PROVIDE WATER HAMMER ARRESTORS ON APPLIANCES/FIXTURES THAT HAVE FAST CLOSING VALVES. APPLIANCES/FIXTURES SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO CLOTHES WASHER, DISH WASHER, SELF CLOSING VALVES, PULSATING SHOWER HEADS, ETC.
13. CONTRACTOR SHALL PROVIDE FOR SAW CUTTING, EXCAVATION, BACKFILL AND RESTORATION TO MATCH EXISTING CONDITIONS AS NEEDED FOR PROPERLY EXECUTING THE PLUMBING SCOPE OF WORK.
14. REFRIGERANT PIPING FOR A/C CONDENSER TO BE FURNISHED BY MANUFACTURER AND INSTALLED BY CONTRACTOR. INSULATE LIQUID AND SUCTION LINES WITH 1" ARMAFLEX
15. ALL PLUMBING FIXTURES ROUGH IN AND INSTALLATION AS PER MICHIGAN BUILDING CODE 2015 AND THE AMERICAN DISABILITY ACT.
16. ALL VENTS TERMINATING ABOVE ROOF SHALL BE 25 FT HORIZONTALLY AWAY FROM AIR INTAKES.
17. CONTRACTOR TO CONTACT LOCAL GAS, WATER, AND SEWAGE DEPARTMENTS AND MAKE APPLICATION FOR NEW SERVICE AND NOTIFY OWNER OR PROVIDE UTILITY FEES TO BRING SERVICE TO THE BUILDING

DEMOLITION

1. CONTRACTOR IS RESPONSIBLE FOR SELECTIVE DEMOLITION IN ALL AREAS AS REQUIRED TO ACCOMMODATE THE PROJECTS SCOPE OF WORK. ALL SYSTEMS AND ANCILLARY COMPONENTS MADE OBSOLETE SHALL BE COMPLETELY REMOVED AND DISPOSED. INSTALL BY-PASS WHERE REQUIRED TO MAINTAIN THE INTEGRITY OF OVERALL SYSTEMS REMAINING AND SERVING AREAS OUTSIDE THE SCOPE OF WORK AREA.
2. CONTRACTOR SHALL PERFORM A SITE INSPECTION TO ESTABLISH EXTENT OF DEMOLITION PRIOR TO BID.

SUBSTITUTES

1. SUBSTITUTES AND "OR EQUAL" SUBMISSION MUST BE APPROVED IN WRITING BY ENGINEER PRIOR TO SUBMISSION OF BID.

IDENTIFICATIONS

1. PROVIDE STENCILED PIPE MARKERS OR PLASTIC TAPE WITH COLOR COMPLYING WITH ANSI A13.1 INCLUDE DIRECTION OF FLOW.
2. LOCATE MARKERS NEAR VALVES. EACH BRANCH TAKE OFF AND NEAR MAJOR EQUIPMENT. MAXIMUM SPACE INTERVALS SHALL NOT EXCEED 50'-0".

SOIL WASTE AND VENT PIPING

1. SOIL WASTE PIPING AND FITTINGS SHALL BE ABS, SCHEDULE 40 DWV (ASTM D2661).
2. VENT PIPING AND FITTINGS SHALL BE ABS, SCHEDULE 40 DWV (ASTM D2661).
3. ALL VENT PIPING SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT AND SHALL DRAIN TO FIXTURES.
4. ALL WASTE PIPING SHALL SLOPE AS FOLLOWS:
- A. 3" AND SMALLER SHALL HAVE A SLOPE OF 1/4" PER FOOT
  - B. 4" AND LARGER SHALL HAVE A SLOPE OF 1/8" PER FOOT
5. PROVIDE EXTRA DEEP TRAP WITH "SURE SEAL" INLINE FLOOR DRAIN TRAP SEALERS ON ALL FLOOR DRAINS AND FLOOR SINKS.
6. SUPPORT PIPING AT MAXIMUM 4'-0" INTERVALS.

WATER PIPING

1. DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER TUBING ABOVE GROUND OR TYPE "K" BELOW GROUND WITH SOLDERED JOINTS USING LEAD FREE SOLDER, PROPERLY CLEANED, USING AN APPROVED FLUX.
2. SUPPORT PIPING AT MAXIMUM 5'-0" INTERVALS FOR PIPING UP TO 2" AND AT 8'-0" INTERVALS FOR 2 1/2" AND UP.
3. DOMESTIC HOT WATER TEMPERATURES SHALL BE AS FOLLOWS:
- A. PUBLIC HAND WASHING FACILITIES - 120°F
  - B. SINKS - 120°F
  - C. SERVICE/NOF SINKS - 120°F
4. PROVIDE LEONARD POINT OF USE THERMOSTATIC MIXING VALVES MODEL 270-LF OR EQUAL AT MAXIMUM SET POINT OF 105°F AS FOLLOWS:
- A. IN PUBLIC TOILET ROOMS
  - B. WASH FOUNTAINS
  - C. WASH SINKS

NATURAL GAS PIPING

1. BLACK STEEL, SCH 40, ASTM A-120, WITH MALLEABLE IRON THREADED FITTING
2. GAS PIPING TO BE PAINTED AND LABELED
3. MATERIALS AND INSTALLATION AS PER MPC-2015 AND IFGC-2015 (INTERNATIONAL FUEL GAS CODE)

INSULATION

1. ALL HOT AND COLD WATER PIPING TO BE INSULATED WITH A MINIMUM OF 1" FIBERGLASS JACKETED INSULATION (ASTM C547, CLASS 1) WITH A FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50.

ESCUTCHEONS

1. ALL EXPOSED PIPING EXCEPT AS OTHERWISE DESCRIBED PASSING THROUGH WALLS, FLOORS, CEILING, ETC. IN FINISHED SPACES SHALL BE PROVIDED WITH SOLID PATTERN BRASS CHROME PLATED ESCUTCHEONS WITH SET SCREW.

BARRIER FREE REQUIREMENT

1. ALL EXPOSED WASTE AND WATER PIPING WITHIN A BARRIER FREE BATHROOM SHALL BE INSULATED WITH A PRODUCT EQUAL TO IPS CORP. "TRUEBRO" LAV GUARD 2 UNDERSINK PROTECTIVE PIPE COVERS WITH INTERNAL, EZ TEAR-TO-FIT TRIM FEATURE FOR SQUARE CLEAN TRIMMING, INTERNAL RIBS AND BUILT-IN, CONCEALED E-Z GRIP FASTENERS (NO CABLE TIE FASTENERS ALLOWED).

FIRESTOP

1. PENETRATIONS FOR CABLES, CABLETRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS, AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A FIRE BARRIER SHALL BE PROTECTED BY A ACCORDANCE WITH ASTM E 814 OR ANSI/UL 1419.

FLUSHING AND DISINFECTING POTABLE WATER SYSTEMS

1. PRIOR TO BEING PLACED INTO SERVICE, ALL POTABLE WATER SYSTEMS SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH MPC 2015, SECTION 610 "DISINFECTING POTABLE WATER SYSTEMS".

TESTING

1. CONTRACTOR SHALL PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH MPC 2015 SECTION 312 "TEST AND INSPECTIONS":
- A. DRAINAGE AND VENT SYSTEMS - SECTION 312.2 OR 312.3
  - B. BUILDING SEWER - SECTION 312.6
  - C. WATER SUPPLY SYSTEMS - SECTION 312.5
  - D. BACKFLOW PREVENTERS - SECTION 310.10

ABBREVIATIONS

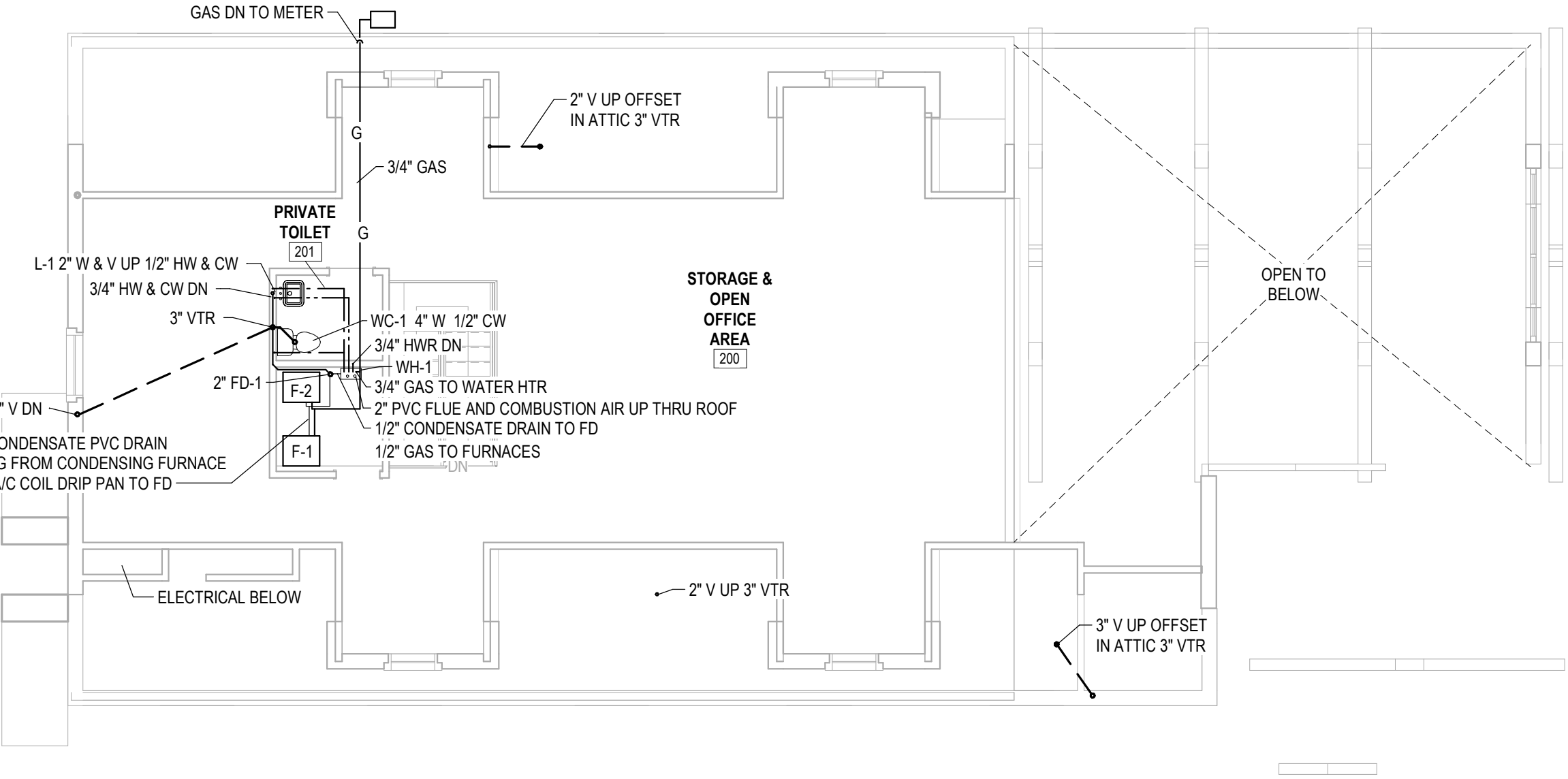
AD	ACCESS DOOR	RZP	REDUCED ZONE BACKFLOW
AFF	ABOVE FINISHED FLOOR	BFP	PREVENTER
ASR	AUTOMATIC SPRINKLER RISER	SK	SINK
B	BOILER	SA	SUPPLY AIR
BDD	BACKDRAFT DAMPER	SAD	SUPPLY AIR DIFFUSER
CA	COMBUSTION AIR	SAG	SUPPLY AIR GRILLE
CI	CAST IRON	SHR	SHOWER
CO	CLEAN OUT	MS	MOP SINK
CU	CONDENSING UNIT	TAG	TRANSFER AIR GRILLE
CP	CIRCULATING PUMPS	TH	THERMOMETER
CONN	CONNECTION	UR	UNIT HEATER
CVB	CONSTANT VOLUME BOX	UR	URINAL
EAG	EXHAUST AIR GRILLE	VD	VOLUME DAMPER
EC	ELECTRICAL CONTRACTOR	VTR	VENT THROUGH ROOF
EF	EXHAUST FAN	WC	WATER CLOSET
EWC	ELECTRIC WATER COOLER	WCO	WALL CLEAN OUT
EWL	ELECTRIC WALL HEATER	WH	WATER HEATER
EXH	EXHAUST	WV	WASTE VENT
F	FURNACE	BPW	BED PAN WASHER
FD	FLOOR DRAIN	TCP	TEMPERATURE CONTROL PANEL
FLR	FLOOR	DWV	DRAINAGE WASTE AND VENT
FP	FREEZE PROOF	WB	WATER BOX
FS	FLOOR SINK	F.U	FIXTURE UNITS DRAINAGE
FTFD	FUNNEL TYPE FLOOR DRAIN	GV	GATE VALVE
GC	GENERAL CONTRACTOR	GLV	GLOBE VALVE
L	LAVATORY	H.B	HOSE BIBB
LD	LINEAR DIFFUSER	H.C	HOSE CABINET
LT	LAUNDRY TUB	HYD.	HYDRANT
MC	MECHANICAL CONTRACTOR	H.O	HUB OUTLET
OA	OUTSIDE AIR	I.E	INVERT ELEVATION
PG	PRESSURE GAUGE	M.H	MANHOLE
PH	PHYSICALLY HANDICAPPED	N.I.C	NOT IN CONTRACT
PRW	PRESSURE REGULATING VALVE	R.C	ROOF CONDUCTOR
RA	RETURN AIR	R.D	ROOF DRAIN
RAG	RETURN AIR GRILLE	TYP.	TYPICAL
RH	RADIANT HEATER	W	WASTE
RS	ROOF SUMP	ERV	ENERGY RECOVERY VENTILATOR
RTU	ROOFTOP UNIT	PH	PHYSICALLY HANDICAPPED

MECHANICAL LEGEND

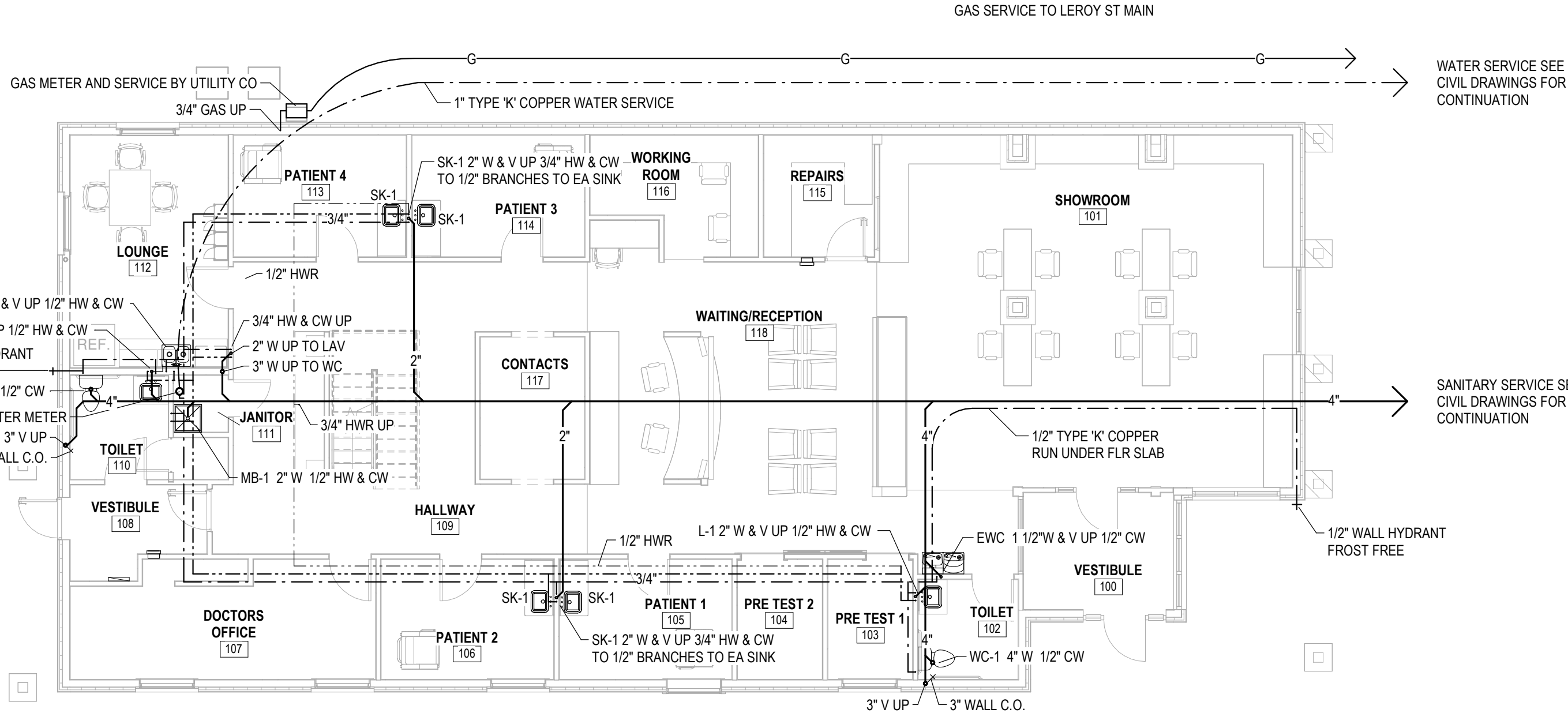
---	COLD WATER
---	HOT WATER
---	HOT WATER RETURN
---	NATURAL GAS
---	LIQUID (REFRIGERANT)
---	SUCTION (REFRIGERANT)
---	SANITARY
---	STORM
---	VENT
---	FIRE PROTECTION
---	DEMOLISHED
---	NEW
---	RETURN GRILLE
---	SUPPLY DIFFUSER
---	FIRE DAMPER HORIZONTAL
---	FIRE DAMPER VERTICAL
---	VOLUME DAMPER
---	SMOKE/FIRE DAMPER
---	BALL VALVE
---	CHECK VALVE
---	CONTROL VALVE
---	EXPANSION JOINT
---	UNION
---	GATE VALVE
---	SOLENOID VALVE
---	EXPANSION JOINT
---	FLOW ARROW
---	FLOW SWITCH
---	MOTORIZED DAMPER
---	SENSOR
---	THERMOSTAT
---	SMOKE DETECTOR
---	THERMOMETER

FIXTURE SCHEDULE

WC-1	KOHLER MODEL #K-3519-T-O (16 1/2" HDCP) WELLWORTH, W/ FLUSH LEVER TO OPEN, SIDE OF ROOM, ELONGATED TANK TYPE, SEAT - "BEMIS" NO. 195SSSTFR, WHITE MCGUIRE NO. 2166CC CLOSET SUPPLY (1/2"C.W., 4"W., 2"V.)
MB-1	ZURN SERVICE SINK MODEL NO. Z1996-24-SD-BS-WG-HH-MH WITH MODEL NO. 2843M1-RC-XL WALL MOUNTED FAUCET WITH BRACKET AND PAIL HOOK (3/4"C.W., 3/4"H.W., 2"W., 1-1/2"V.)
WH-1	NAVIEN MOD NPE-240A-NG COMMERCIAL GAS TANKLESS WATER HEATER RECOVERY RATING - 5.6 GPM @ 70", 200 MBTU NAT GAS, 96% EFFICIENT, 1/2" CONDENSATE DRAIN, 3/4" HW, CW, & HWR, 2" PVC FLUE AND COMBUSTION AIR VENTED THRU ROOF, INSTALLED AS PER MANUFACTURES RECOMMENDATIONS.
WHA	MECHANICAL WATER HAMMER ARRESTOR. LOCATE & INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
MV	WATTS MMV-M1, ASSE 1070 MIXING VALVE, 2 GPM @ 10 PSIG PD.
AAV	AIR ADMITTANCE VALVE - STUDOR MINI VENT
EWC	DRINKING FOUNTAIN - LVRC1L8WSK ELKAY EZH20 BOTTLE FILLING STATION AND HIGH/LOW EFFICIENCY VANDAL RESISTANT COOLER FILTERED REFRIGERATED STAINLESS
SK-1	ELKAY MODEL ELX1616 ELKAY QUARTZ LUXE SINGLE BOWL SINK BLACK (CA) WITH DELTA DSP-L-35849LF NICOLI COLLECTION TWO HANDLE WIDESPREAD DECK MOUNT FAUCET, MCGUIRE W/20" RISERS MO.2165CC, DEARBORN BRASS TRAP NO. 704-2 (PVC), PROFLO PFGD101 GRID DRAIN (1/2" CW, 1/2" HW, 1 1/2" W, 1 1/2" V) ASSE 1070 TEMPERING VALVE. CABINET INSTALLER TO CUT OPENINGS.
SK-2	ELKAY MODEL "LUSTERTONE" LR2519 18 GA TYPE 304 STAINLESS STEEL SINK WITH LK530 B44 KITCHEN FAUCET WITH 4" BLADE HANDLES AND GOOSENECK, MCGUIRE W/20" RISERS MO.2165CC, DEARBORN BRASS TRAP NO. 704-2 (PVC), PROFLO PFGD101 GRID DRAIN (1/2" CW, 1/2" HW, 1 1/2" W, 1 1/2" V) ASSE 1070 TEMPERING VALVE. CABINET INSTALLER TO CUT OPENINGS.
L-1	KOHLER "BRYANT OVAL" DROP IN 20"x18" CHINA, BLACK, NO. K-2699-1, BRADLEY VERGE LINEA SERIES FAUCET NO. SS3-3500 BRUSHED BLACK STAINLESS AND MATCHING COLOR GRID DRAIN, DEARBORN BRASS TRAP NO.701-1 (PVC),MCGUIRE W/20" RISERS MO.2165CC W/ POINT OF USE TEMPERING VALVE (ASSE 1070), (1/2"C.W., 1/2"H.W., 1-1/2"W., 1-1/2"V.)
FD-1	6" ROUND PVC FLOOR DRAIN ZURN R06N1-CS-P 3 S-CC WITH ZN400BZ-VP STRAINER, AND WITH "SURE SEAL" IN LINE TRAP SEALER MOD. SS300NV (2"W.)
ET-1	EXPANSION TANK, AMTROL ST-1, ASME RATED, 5 GALLON
WH	WOODFORD 65-C FREEZELESS WALL HYDRANT



2 Second Floor Plumbing Plan  
P1.0 1/8" = 1'-0"



NOTE SEE HVAC PLANS FOR ADDITIONAL CONDENSATE PIPING

1 First Floor Plumbing Plan  
P1.0 1/8" = 1'-0"

SEAL OF ARCHITECT

ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS

Date	Description
11/21/22	Revision 1

DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Project

Drawing

Plumbing Plans

DRAWN BY: SJS  
CHECKED BY: MJM

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

P1.0



EQUIPMENT SCHEDULE

- CD-1 CEILING DIFFUSER TITUS TDCA OR EQUAL SQUARE 4  
WAY DISTRIBUTION STEEL WITH WHITE POWDER  
COAT FINISH ADJUSTABLE HORIZONTAL TO  
VERTICAL AIRFLOW PATTERN FRAME FOR LAY IN  
CEILING 500 FPM MAX. NECK VELOCITY AND 20  
MAX. NG LEVEL
- CD-2 SAME AS ABOVE ONLY WITH FRAME FOR PLASTER CEILING
- | CFM     | NECK SIZE | FACE SIZE |
|---------|-----------|-----------|
| 0-100   | 6" DIA.   | 12X12     |
| 101-200 | 8" DIA.   | 12X12     |
| 201-325 | 10" DIA.  | 12X12     |
| 326-470 | 12" DIA.  | 12X24     |

- RAG-1 RETURN AIR GRILLE TITUS S0F EGGRATE OR EQUAL  
EG-1 WHITE FINISH FRAME FOR LAY IN CEILING PAINT DUCT  
DUCT BLACK VISABLE BEHIND GRILLE

CFM	NECK SIZE	FACE SIZE
0-130	6X6	12X12
131-250	8X8	12X12
251-450	10X10	12X12
451-1000	10X22	12X24

- WR-1 WALL DIFFUSER 2 WAY ADJUSTABLE WALL MTD  
WR-2 WALL DIFFUSER 2 WAY ADJUSTABLE DUCT MTD

- F-1 FURNACE EQUAL TO 'YORK' TM9V080C16MP12C COUNTER FLOW, VARIABLE SPEED, TWO  
STAGE HEATING, 96 AFUE, 80 MBTU HEATING, NAT GAS, 1600 CFM NOMINAL, 3/4 HP AT 1075  
RPM, 115/160 11.5 MCA 15 AMP BREAKER WITH CM36C ENCASED COIL, PROVIDE 1" PVC  
CONDENSATE PIPING FROM A/C COIL DRAIN PAN AND CONDENSING FURNACE TO FLOOR  
DRAIN, EXTERIOR MTD, 2" MERV-8 FILTER BANK
- F-2 FURNACE EQUAL TO 'YORK' TM9V120D20MP12C COUNTER FLOW, VARIABLE SPEED, TWO  
STAGE HEATING, 96 AFUE, 120 MBTU HEATING, NAT GAS, 2000 CFM NOMINAL, 1 HP AT 1075  
RPM, 115/160 14.7 MCA 20 AMP BREAKER WITH CM64D ENCASED COIL, PROVIDE 1" PVC  
CONDENSATE PIPING FROM A/C COIL DRAIN PAN AND CONDENSING FURNACE TO FLOOR  
DRAIN, EXTERIOR MTD, 2" MERV-8 FILTER BANK
- CU-1 A/C CONDENSER 3 TON EQUAL TO 'YORK' YCE36B22S NOMINAL COOLING 36000 BTU, 230/1/60  
19.6 MCA 20 AMP 2-P CIRCUIT BREAKER, R-410A REFRIGERANT, AND PAINTED HOUSING
- CU-2 A/C CONDENSER 3 TON EQUAL TO 'YORK' YCE60B22S NOMINAL COOLING 60000 BTU, 230/1/60  
31.7 MCA 50 AMP 2-P CIRCUIT BREAKER, R-410A REFRIGERANT, AND PAINTED HOUSING
- ERV-1 ENERGY RECOVERY VENTILATOR EQUAL TO 'RENEWAIRE' MOD EV450IN 480 CFM CROSS  
CORE DIFFERENTIAL PRESSURE PORTS, 2" MERV 8 FILTERS, NON FUSED DISCONNECT,  
0.6 HP BLOWER MOTOR, 115/160 5 AMPS, 15 AMP BREAKER
- ZD PROVIDE COMPLETE ZONING SYSTEM EQUAL TO 'HONEYWELL HOME' MOD HZ322K OR  
HZ432K TRUE ZONE ZONING 3 OR 4 ZONE PANEL KIT, TH650R1004 WIRELESS FOCUSPRO  
THERMOSTAT WITH THM4000 WIRELESS ADAPTER MODULE, THM6000 GATEWAY INTERNET  
MODULE, ZD SERIES DAMPERS 24 VOLT SPRING RETURN ACTUATOR, AND ARD10TZ BYPASS  
DAMPER

VENTILATION SCHEDULE

- RECEPTION: 215 SQ FT @ 30 PERSONS/1000 SQ FT = 6 PERSONS X 5 CFM = 30 CFM  
OFFICE: 215 SQ FT X 0.06 CFM/SQ FT = 13 CFM  
613 SQ FT @ 5 PERSONS/1000 SQ FT = 3 PERSONS X 5 CFM = 15 CFM  
613 SQ FT X 0.06 CFM/SQ FT = 37 CFM  
CORRIDOR: 643 SQ FT X 0.06 CFM/SQ FT = 39 CFM

- Voz = 134 CFM  
ZONE OUTDOOR AIRFLOW Voz = Vbz / Ez Voz = 134/1 OR 134 CFM  
Ez = CEILING SUPPLY AND RETURN MMC TABLE 403.3.1.2 NOTE g  
Vol = SINGLE ZONE SYSTEM (1) X Voz (134 CFM) OR 134 CFM

- EXHAUST TOILET RM: 1 WATER CLOSET X 50 CFM = 50 CFM

- TOTAL HVAC-1 FRESH AIR 134 CFM

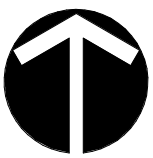
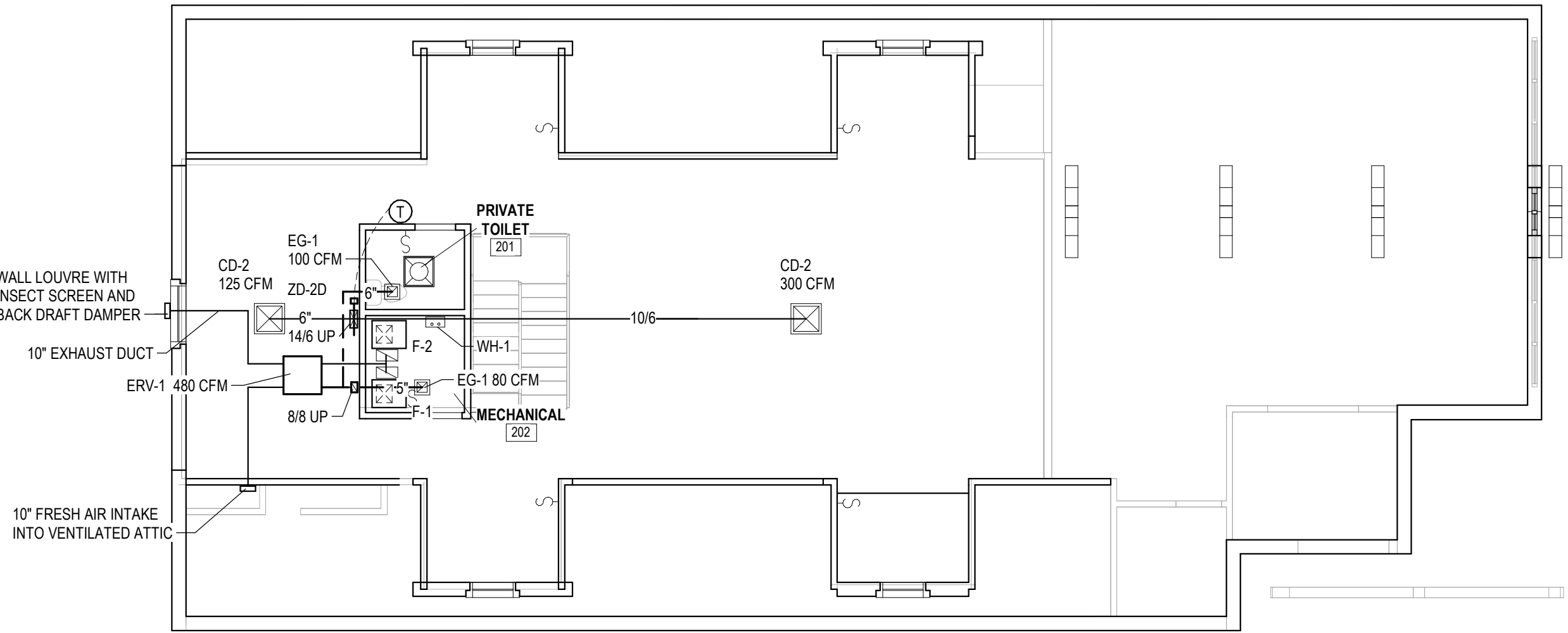
- OFFICE: 602 SQ FT @ 5 PERSONS/1000 SQ FT = 3 PERSONS X 5 CFM = 15 CFM  
602 SQ FT X 0.06 CFM/SQ FT = 36 CFM  
1018 SQ FT @ 5 PERSONS/1000 SQ FT = 5 PERSONS X 5 CFM = 25 CFM  
1018 SQ FT X 0.06 CFM/SQ FT = 61 CFM

- SHOWROOM: 755 SQ FT @ 10 PERSONS/1000 SQ FT = 8 PERSONS X 5 CFM = 40 CFM  
755 SQ FT X 0.06 CFM/SQ FT = 45 CFM

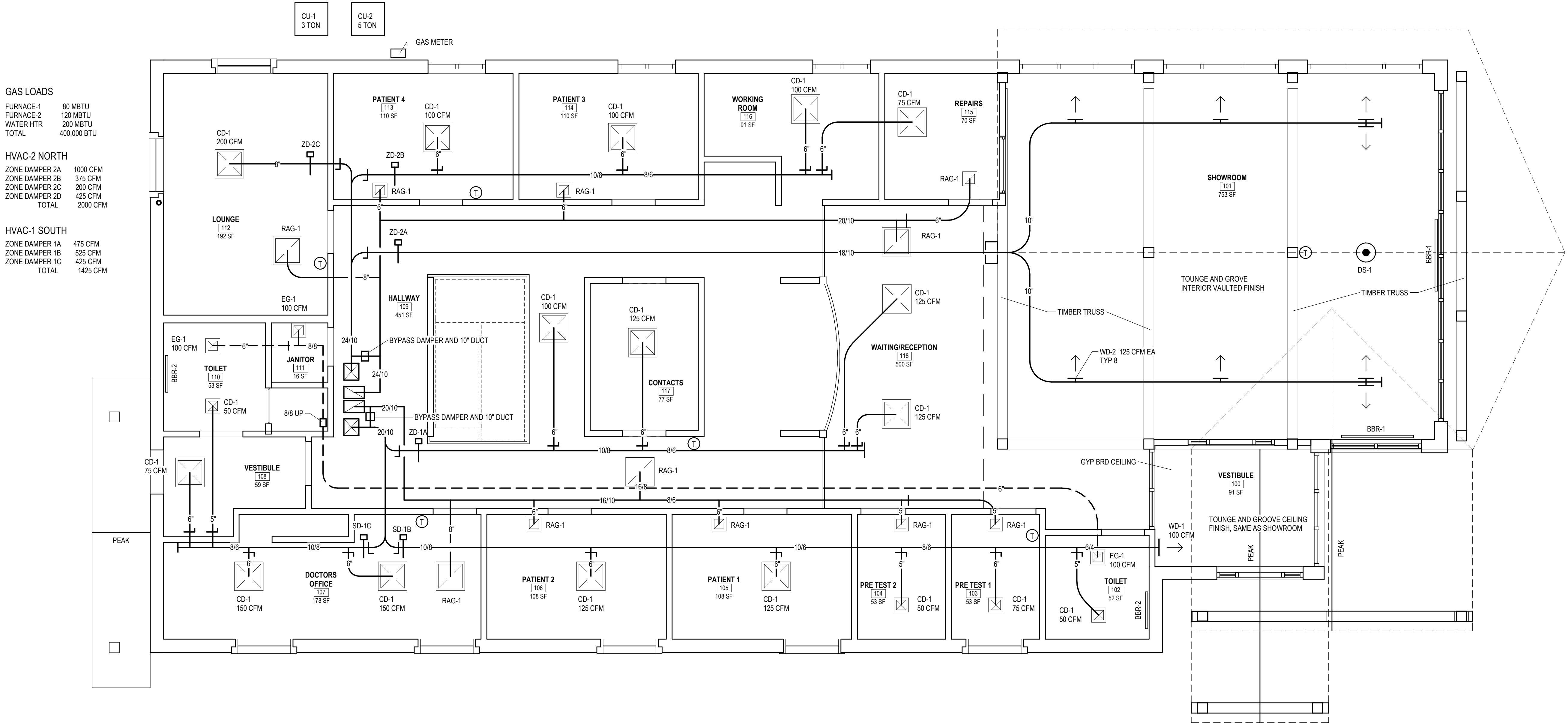
- EXHAUST TOILET RM: 2 WATER CLOSET X 50 CFM = 100 CFM

- Voz = 222 CFM  
ZONE OUTDOOR AIRFLOW Voz = Vbz / Ez Voz = 222/1 OR 222 CFM  
Ez = CEILING SUPPLY AND RETURN MMC TABLE 403.3.1.2 NOTE g  
Vol = SINGLE ZONE SYSTEM (1) X Voz (222 CFM) OR 222 CFM

- TOTAL HVAC-2 FRESH AIR 222 CFM



2 Second Floor Mechanical Plan  
M1.0 1/8" = 1'-0"



- GAS LOADS
- |           |             |
|-----------|-------------|
| FURNACE-1 | 80 MBTU     |
| FURNACE-2 | 120 MBTU    |
| WATER HTR | 200 MBTU    |
| TOTAL     | 400,000 BTU |

- HVAC-2 NORTH
- |                |          |
|----------------|----------|
| ZONE DAMPER 2A | 1000 CFM |
| ZONE DAMPER 2B | 375 CFM  |
| ZONE DAMPER 2C | 200 CFM  |
| ZONE DAMPER 2D | 425 CFM  |
| TOTAL          | 2000 CFM |

- HVAC-1 SOUTH
- |                |          |
|----------------|----------|
| ZONE DAMPER 1A | 475 CFM  |
| ZONE DAMPER 1B | 525 CFM  |
| ZONE DAMPER 1C | 425 CFM  |
| TOTAL          | 1425 CFM |

SEAL OF ARCHITECT

ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900

www.starch.us

Good clients + Good design + Great architecture



REVISIONS

Date	Revision	Description
11/21/22	Revision 1	

Project  
DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Drawing

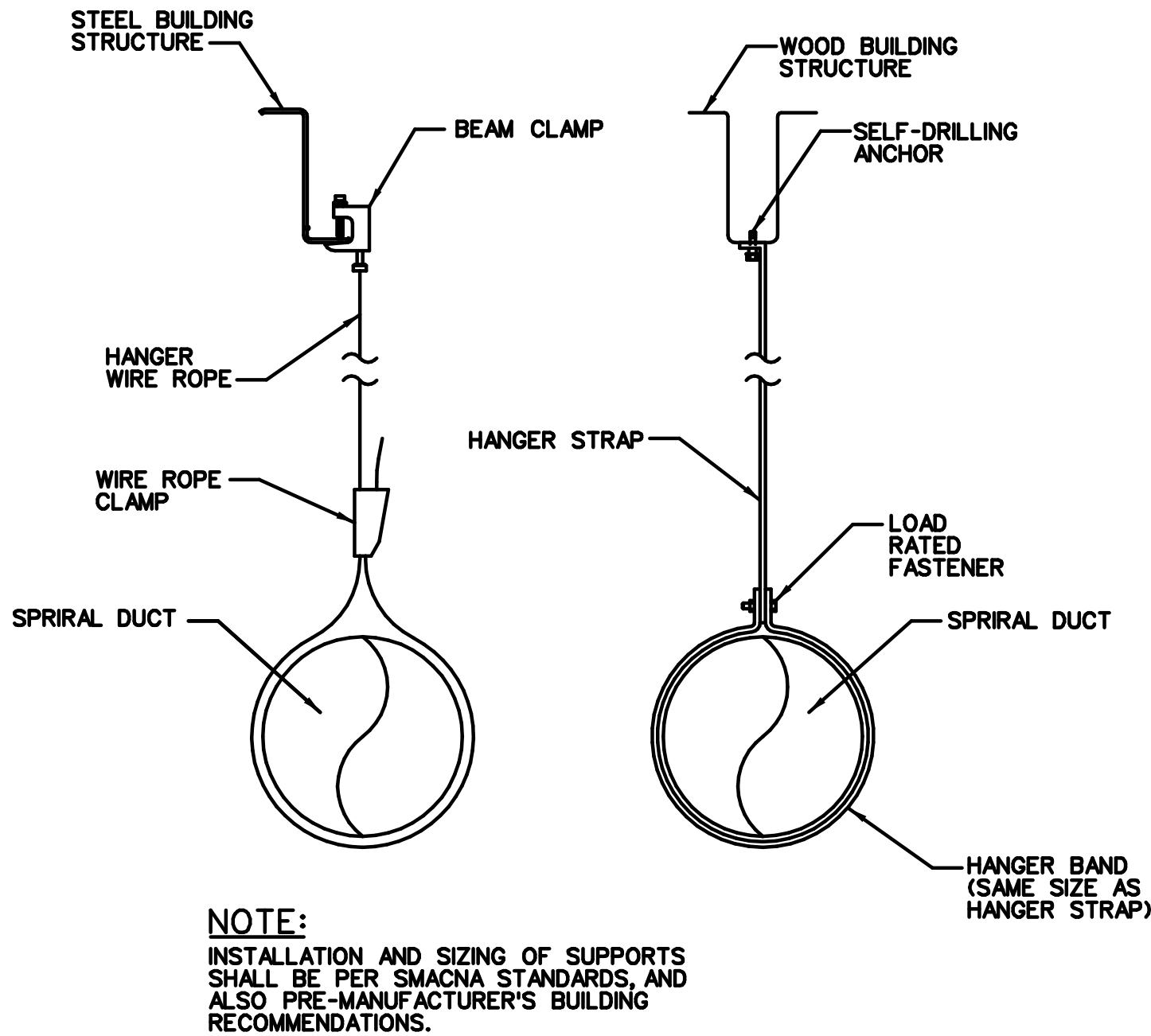
Mechanical Plans

DRAWN BY: SJS  
CHECKED BY: MJM

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

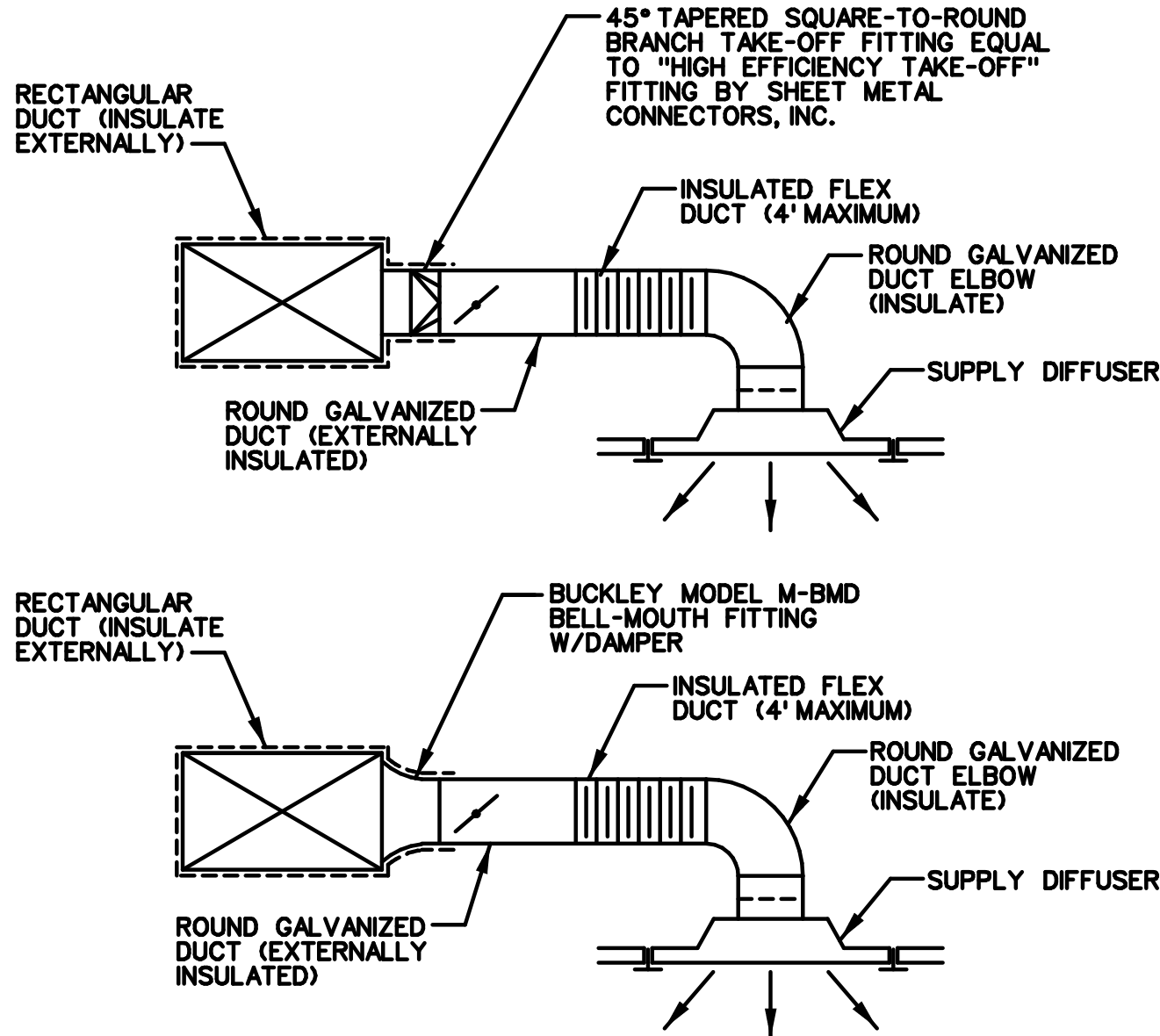
M1.0





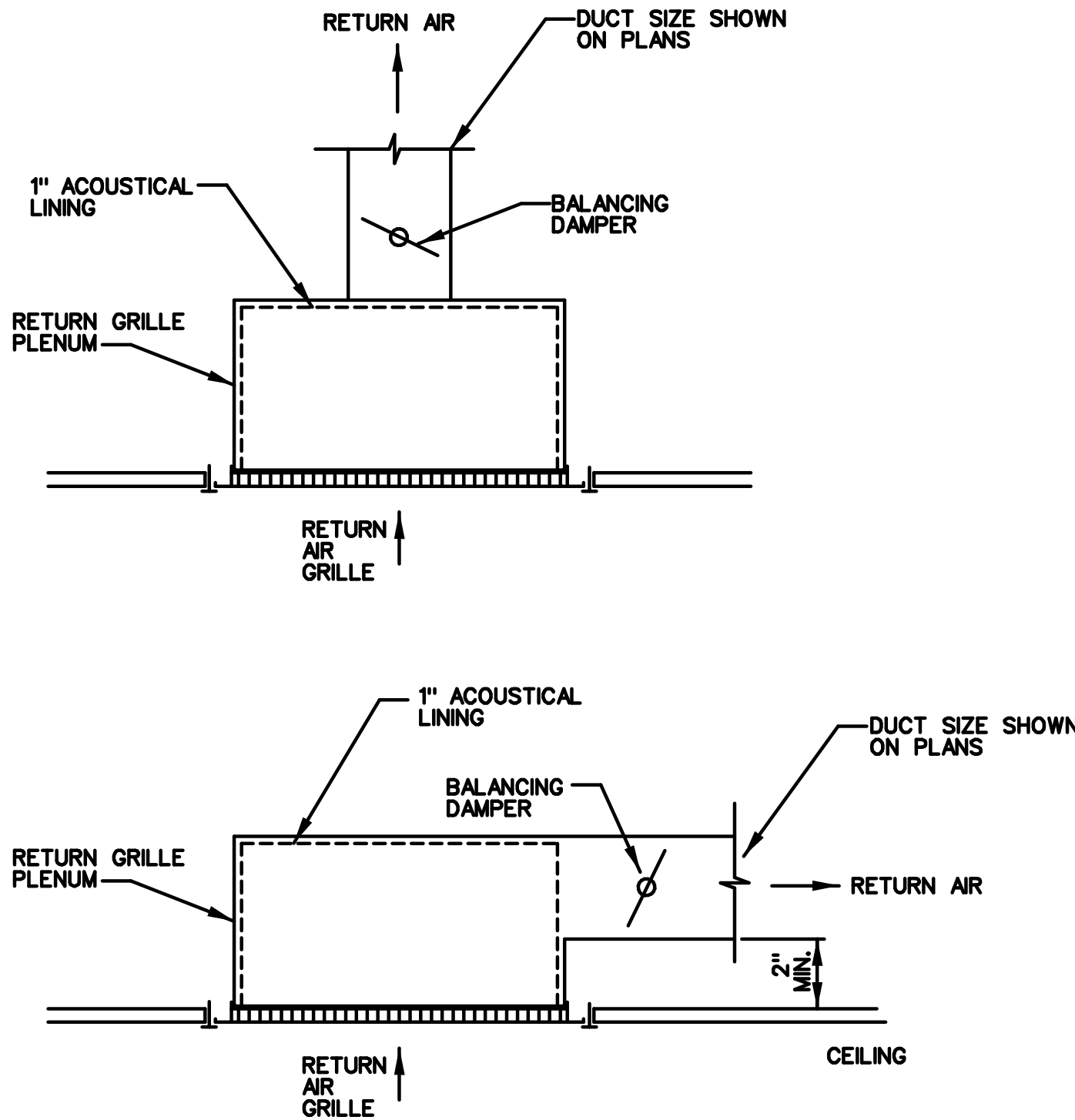
TYPICAL SPIRAL DUCT HANGER SUPPORT

NO SCALE



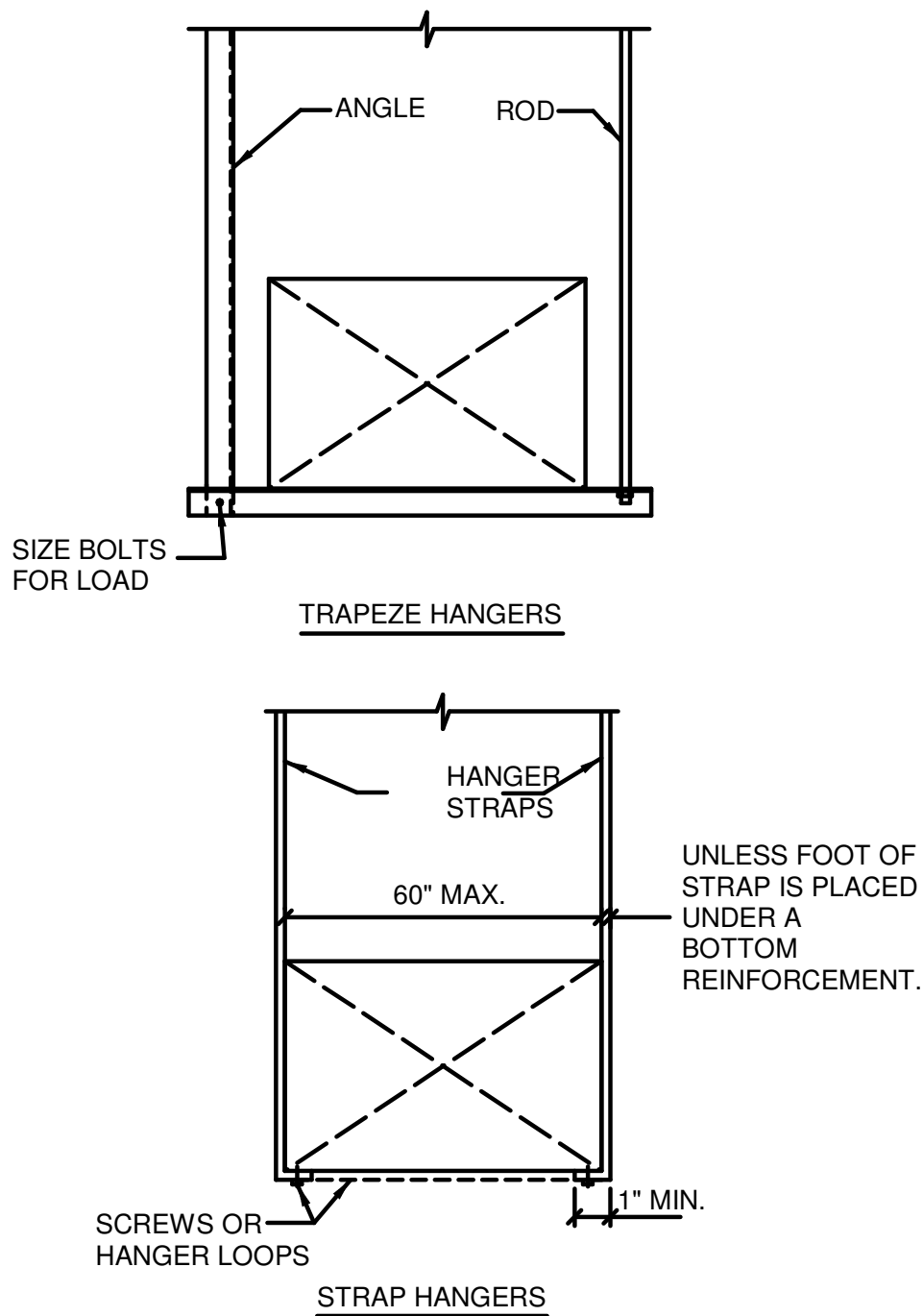
TYPICAL ALLOWABLE SUPPLY AIR TAKE-OFF DETAILS

NO SCALE



RETURN AIR GRILLE DETAIL

NO SCALE



TYPICAL DUCT HANGERS

NOT TO SCALE

- NOTES:
1. REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.
  2. DO NOT EXCEED ALLOWABLE LOAD LIMITS.

## 2 Mechanical Notes

M1.1 1/4\"/>

### SCOPE

1. PROVIDE ALL MATERIALS AND EQUIPMENT INDICATED ON THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
2. WORK TO BE PERFORMED UNDER THE MECHANICAL SPECIFICATIONS AND DRAWINGS CONSISTS OF FURNISHINGS ALL LABOR AND MATERIAL FOR THE INDICATED SPACE INCLUDING BUT NOT LIMITED TO:
  - A. EXHAUST FANS AND ACCESSORIES
  - B. DUCTWORK, DIFFUSERS, AND ACCESSORIES
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO FACILITATE THE WORK WITHOUT CAUSING UNNECESSARY DELAYS. IMMEDIATELY REPORT ANY DISCREPANCIES, IN WRITING, TO THE ENGINEER ALL CHANGES AND/OR ALTERATIONS REQUIRE REVIEW AND APPROVAL BY THE ENGINEER.

### GENERAL

1. ALL EQUIPMENT SHALL BE INSTALLED IN A WORKMAN LIKE MANNER MEETING THE ACCEPTED STANDARDS OF THE HVAC INDUSTRY. WORK SHALL BE PERFORMED BY FIRMS AND CRAFTSMAN REGULARLY ENGAGING IN WORK OF THIS NATURE.
2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE OF THE TYPE AND CAPACITIES INDICATED ON THE DRAWINGS, OR APPROVED EQUAL AND/OR SUBSTITUTIONS.
3. ALL EQUIPMENT AND MATERIALS PROVIDED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR THE PROPOSED SERVICE.
4. SUBSTITUTIONS AND/OR EQUAL PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION.
5. GUARANTEE IN WRITING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNERS ACCEPTANCE. GUARANTEE SHALL BE UNCONDITIONAL.
6. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
7. ALL EXTERIOR WALL OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH LOW VOLATILE ORGANIC COMPOUND SEALANT TO PREVENT INFILTRATION OF OUTSIDE AIR INTO ROOMS.
8. CONTRACTOR SHALL INSTALL EXHAUST FANS, INCLUDING ALL DUCTWORK, BACK DRAFT DAMPERS, CAPS SCREENING, AND RELATED HARDWARE TO PROVIDE EXHAUST TO EXTERIOR OF BUILDINGS.
9. LOCATIONS OF EXISTING EQUIPMENT, INCLUDING PIPING, DUCTWORK, DIFFUSERS, AND REGISTERS, HAVE BEEN TAKEN FROM THE BEST AVAILABLE INFORMATION. THE DRAWINGS ARE INTENDED TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR ASSUME THAT ALL EQUIPMENT IS SHOWN. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE TOTALS OF REMOVALS AND NEW WORK AS DIAGRAMED ON THE PLANS. EXTRA COMPENSATION FOR FAILURE TO COMPLY WITH THE ABOVE STATEMENTS WILL NOT BE CONSIDERED.
10. CONTRACTORS SHALL VISIT THE PROJECT PRIOR TO SUBMITTAL OF PROPOSAL AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND CONDITIONS THAT WILL AFFECT THE PERFORMANCE OF THEIR WORK. FAILURE TO DO SO WILL NOT ENTITLE THEM TO ANY ADDITIONAL COMPENSATION FOR PROVIDING A COMPLETE AND APPROVED SYSTEM.
11. CONTRACTOR SHALL REFER TO ALL DRAWINGS FOR INFORMATION, SPECIFICATIONS, AND/OR INSTRUCTIONS RELATIVE TO THE PROJECT SCOPE OF WORK AND PROVIDE WORK/COORDINATION REQUIRED TO FACILITATE OTHER CONTRACTORS.
12. THERMOSTATS SHALL BE MOUNTED SO THAT OPERABLE PARTS ARE LOCATED NO HIGHER THAN 48\"/>
13. CONTRACTOR SHALL PROVIDE LOCKABLE METAL, VENTED, THERMOSTAT COVERS FOR ALL THERMOSTATS.
14. MECHANICAL CONTRACTOR SHALL PROVIDE CERTIFIED CHECK, TEST, AND START UP SERVICES, TO PROVIDE DRAWINGS OF THE INSTALLED SYSTEM, OWNER TRAINING OF THE CONTROL SYSTEM OPERATIOND AND EQUIPMENT WARRENTIES.
15. MAINTAIN 10 FT SEPERATION BETWEEN AIR INTAKES AND EXHAUST AIR OR PLUMBING VENTS. FRESH AIR INTAKES TO BE A MIN 3 FT ABOVE ROOF.
16. EXHAUST FANS TO BE MANUALLY STARTED AND STOPPED SWITCHED BY ELECTRICAL CONTRACTOR.

### DEMOLITION

1. CONTRACTOR IS RESPONSIBLE FOR SELECTIVE DEMOLITION IN ALL AREAS AS REQUIRED TO ACCOMMODATE THE PROJECT SCOPE OF WORK. ALL SYSTEMS AND ANCILLARY COMPONENTS MADE OBSOLETE SHALL BE COMPLETELY REMOVED AND DISPOSED. INSTALL BY-PASS WHERE REQUIRED TO MAINTAIN THE INTEGRITY OF OVERALL SYSTEMS REMAINING AND SERVING AREAS OUTSIDE THE SCOPE OF WORK AREA.
2. CONTRACTOR SHALL PERFORM A SITE INSPECTION TO ESTABLISH EXTENT OF DEMOLITION PRIOR TO BID.

### CODES AND STANDARDS

1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF INTERNATIONAL MECHANICAL CODE, MICHIGAN MECHANICAL CODE-2015, MICHIGAN ENERGY CODE ASHRA 90.1 2015, NFPA, SMACNA, LOCAL CODES, AND REGULATIONS GOVERNING WORK OF THIS NATURE.

2. CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS, AND PAY ANY AND ALL FEES AS REQUIRED.

### COORDINATION

1. THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH A COMPLETE SET OF M/P/E AND ARCHITECTURAL DESIGN DRAWINGS. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEERS OFFICE.
2. CONTRACTOR IS TO COORDINATE AND PROVIDE FOR INTERIOR WALL OPENINGS FOR DUCT PENETRATIONS.
3. CONTRACTOR IS TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATIONS OF WIRING FOR EACH EXHAUST FAN.
4. CONTRACTOR SHALL COORDINATE AND PROVIDE FOR UNDERCUTTING AND/OR LOUVRE DOOR AS INDICATED TO ALLOW ADEQUATE AIR RETURN TO AIR HANDLING UNIT.
5. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.

### MAINTENANCE

1. CONTRACTOR SHALL SERVICE EXISTING HVAC EQUIPMENT TO ASSURE OPERATIONS IS IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS. CLEAN UNIT, REPLACE FILTERS, AND RECHARGE REFRIGERANT AS NEEDED.

### DUCTWORK

1. SMOOTH TURN RADIUS DUCTWORK OF DOUBLE THICKNESS TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 500 CFM.
2. ALL JOINTS TO BE SEALED WITH DUCT MASTIC AND TAPE IN ACCORDANCE WITH SMACNA STANDARDS CLASS 'C'.
3. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED AS LONG AS NET FREE FACE AREA IS MAINTAINED.
4. SUPPORT DUCTWORK AT A MAXIMUM INTERVAL OF 16'-0\"/>
5. ALL BRANCH DUCTS SHALL HAVE A VOLUME DAMPER.
6. ALL BRANCH DUCT TAKEOFFS SHALL BE MADE WITH 45\"/>
7. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.
8. USE OF "FLEX" DUCTWORK SHALL BE LIMITED TO NO MORE THAN 6' LINEAR FEET PER RUN UNLESS OTHERWISE INDICATED.
9. ALL DUCTWORK GALVANIZED SHEETMETAL SUPPLY AND RETURN AIR DUCT 2\"/>

### INSULATION

1. CONCEALED SUPPLY / RETURN / OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1 1/2\"/>

### TESTING AND BALANCING AIR SYSTEMS

1. CONTRACTOR SHALL PROVIDE FOR BALANCING OF AIR SYSTEMS TO ACHIEVE VALUES SHOWN ON THE DRAWINGS.
2. PROVIDE DOCUMENTATION TO ENGINEERS OFFICE BY AN INDEPENDANT NEBB OR AABC CERTIFIED TESTAND BALANCE AGENCY FOR REVIEW AND APPROVAL, INDICATING RESULTING AIR FLOWS FROM PERFORMANCE OF BALANCING. RE-BALANCE SYSTEM AS REQUIRED TO SATISFY SYSTEM REQUIREMENTS.

### FIRESTOP

1. PENETRATIONS FOR CABLES, CABLETRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS, AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A FIRE BARRIER SHALL BE PROTECTED BY A FIRESTOP SYSTEM OR DEVICE. THE FIRESTOP SYSTEM OR DEVICE SHALL BE TESTING IN ACCORDANCE WITH ASTM E 814 OR ANSI / UL 1479.

Project

DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Drawing

Mechanical Details

DRAWN BY: SJS  
CHECKED BY: MJM

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

M1.1

ARCHITECT

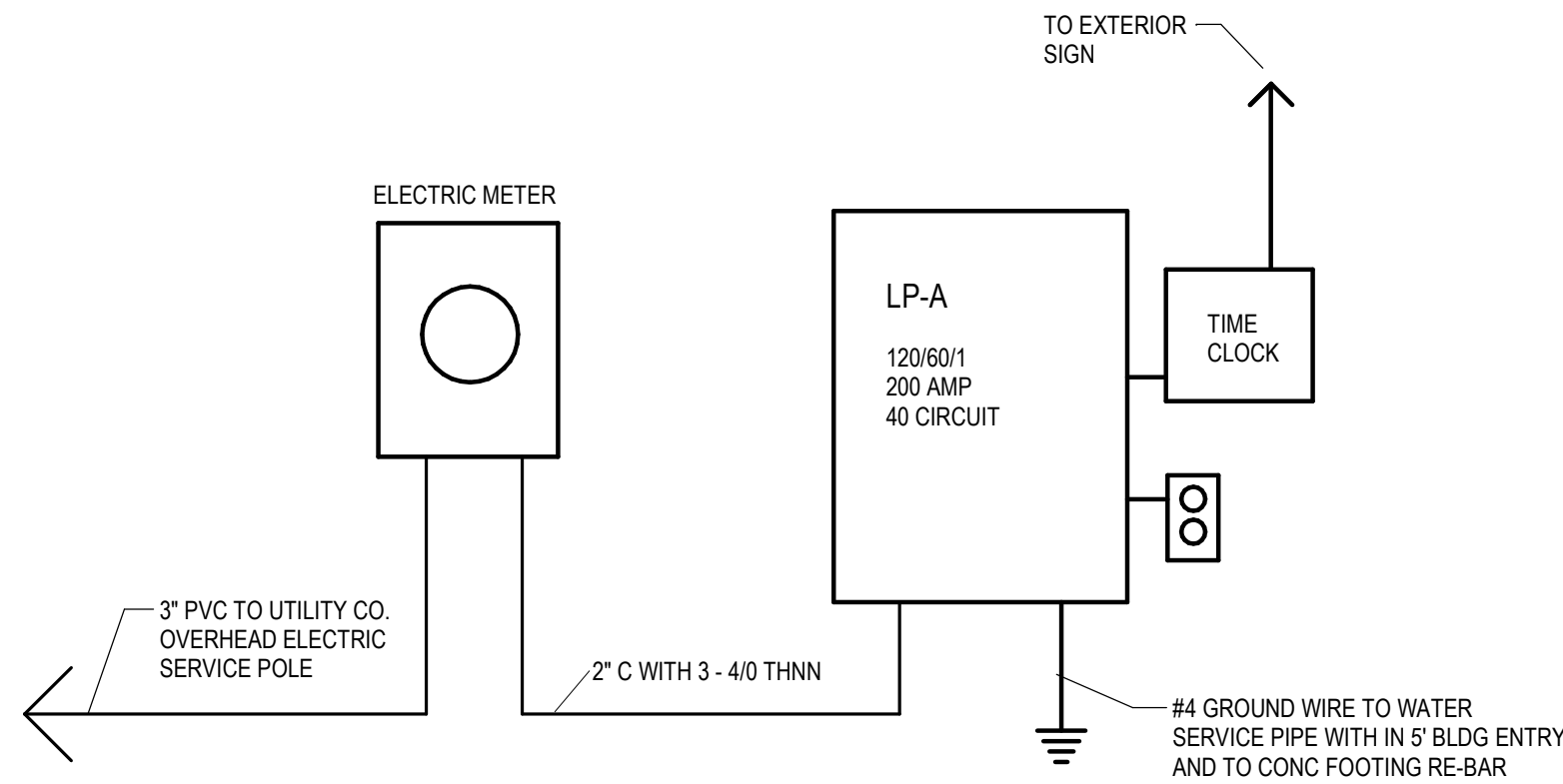
SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture

SEAL OF ARCHITECT





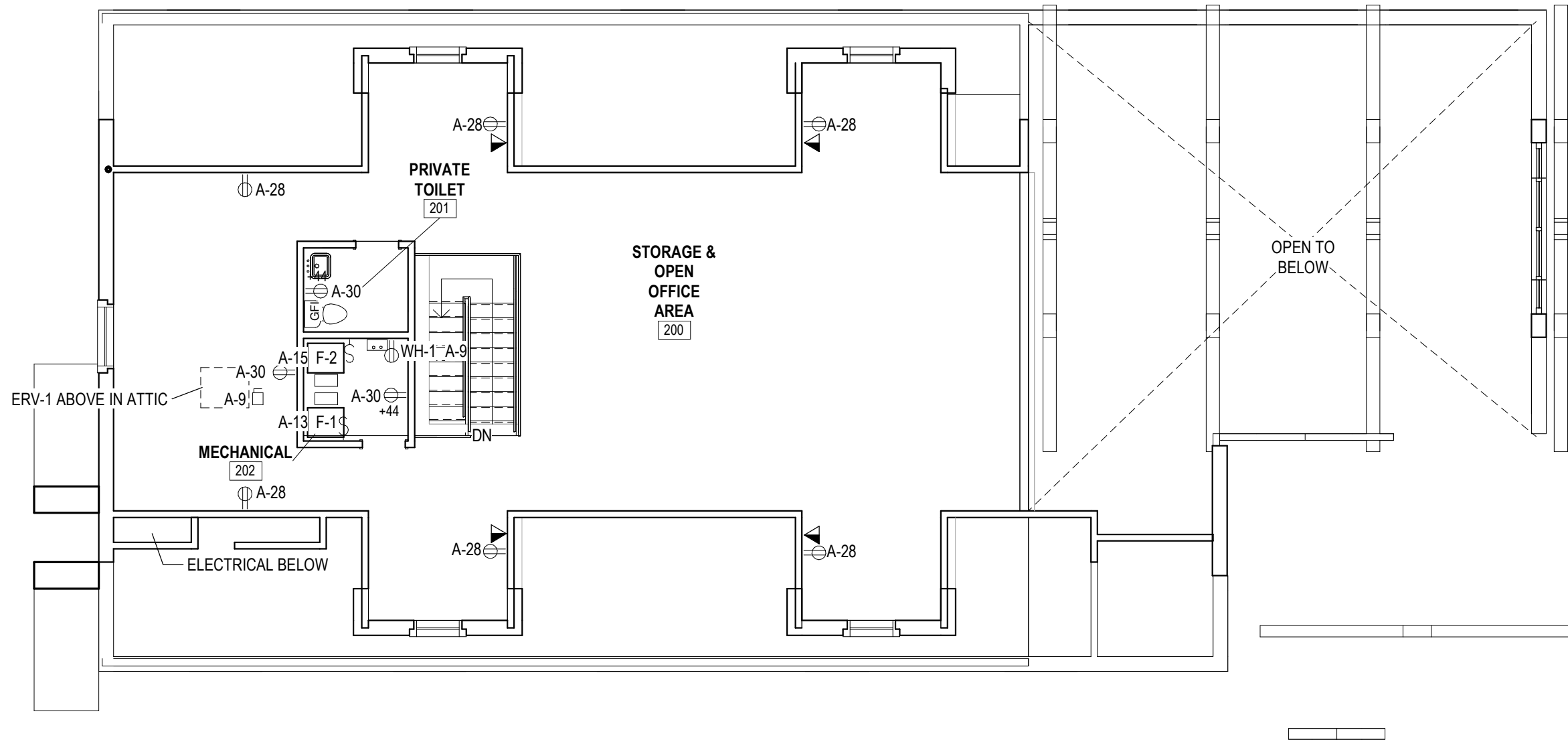
5 Electric Riser Diagram

E1.0 3/8" = 1'-0"

LP-A									
120/240V 60 HZ 1 PHASE 3 WIRE			200 AMP M.B. 225 AMP BUSS			10K A.I.C.			
NO	BKR	DESCRIPTION	LOAD		LOAD	DESCRIPTION	BKR	NO	
1	20A	CU-1 3 TON	2.25	A	1.08	RECEPTACLE RM 101	20A	2	
3	2P		2.25	B	0.72	RECEPTACLE RM 101	20A	4	
5	50A	CU-2 5 TON	3.65	A	0.90	RECEPTACLE RM 100	20A	6	
7	2P		3.65	B	0.72	RECEPTACLE RM 118	20A	8	
9	20A	WATER HTR. ERV-1	1.12	A	1.26	RECEPTACLE RM 117	20A	10	
11	20A	SPARE		B	0.90	RECEPTACLE RM 115	20A	12	
13	15A	FURNACE-1	1.32	A	0.90	RECEPTACLE RM 116	20A	14	
15	20A	FURNACE-2	1.69	B	1.08	RECEPTACLE RM 113, 114	20A	16	
17	20A	ELECTRIC WATER COOLER	0.40	A	1.08	RECEPTACLE RM 105, 106	20A	18	
19	20A	RECEPTACLE RM 110, 111	0.36	B	0.90	RECEPTACLE RM 107	20A	20	
21	20A	ELECT BASEBRD HTR	1.25	A	0.90	RECEPTACLE RM 109	20A	22	
23	20A	ELECT BASEBRD HTR	1.25	B	0.36	RECEPTACLE RM 112	20A	24	
25	20A	ELECT BASEBRD HTR	0.50	A	0.90	RECEPTACLE RM 112	20A	26	
27	20A	ELECT BASEBRD HTR	0.50	B	1.08	RECEPTACLE RM 200	20A	28	
29	20A	TELEPHONE SYSTEM	0.50	A	0.36	RECEPTACLE RM 201, 202	20A	30	
31	20A	SECURITY SYSTEM	0.50	B	0.28	LIGHTING PARKING	20A	32	
33	20A	SPARE		A	1.67	LIGHTING NORTH	20A	34	
35	20A	SPARE		B	1.45	LIGHTING SOUTH & 2ND FLR	20A	36	
37		BLANK				SPARE	20A	38	
39		BLANK				SPARE	20A	40	
41		BLANK				BLANK	20A	42	

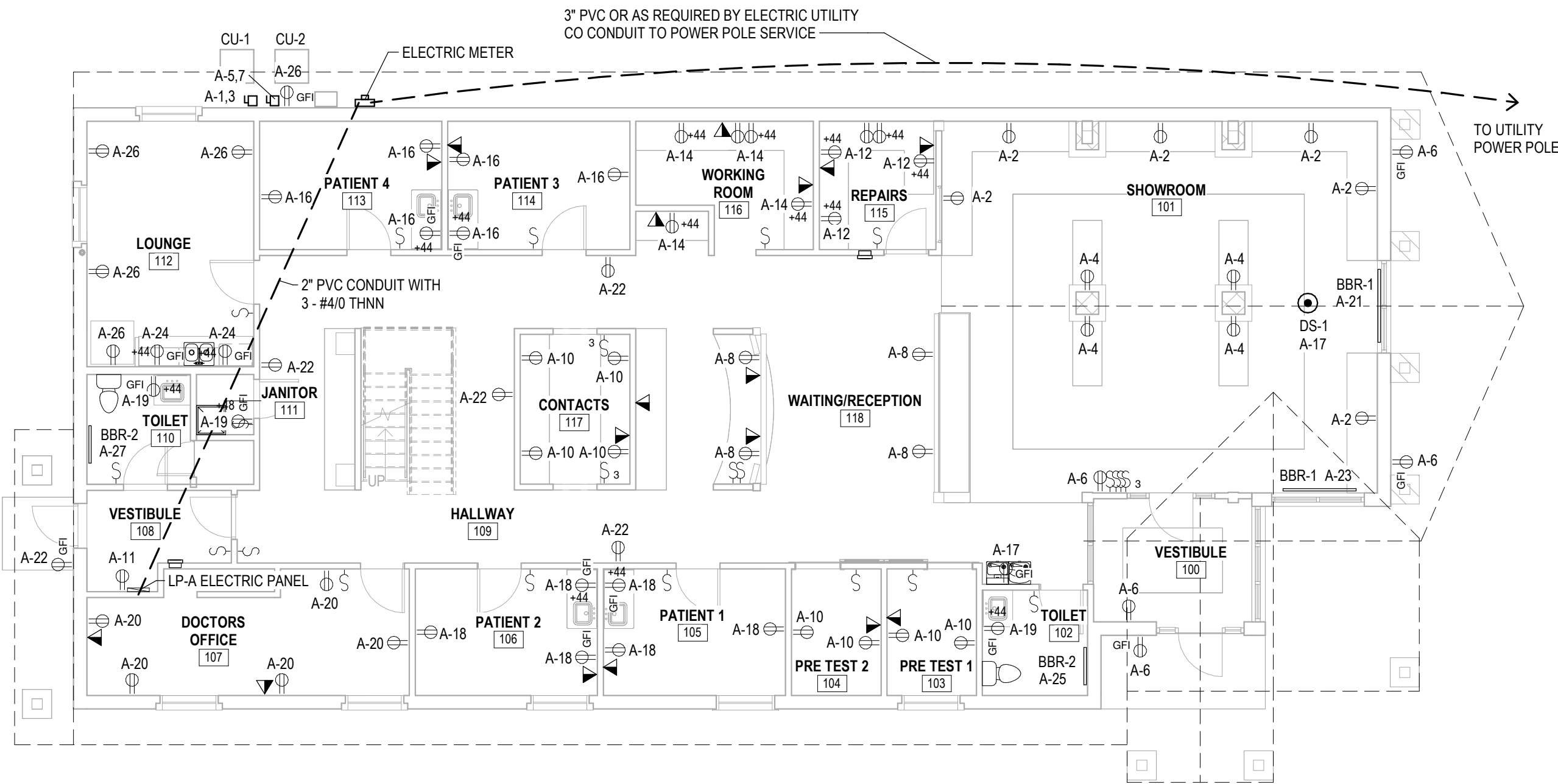
A = 18.92 KVA  
B = 18.81 KVA  
CONNECTED LOAD 37.73 KVA = 157.21 AMPS

LIGHTING	3.4 KVA	AT 125%	=	4250 VA
RECEPTACLE	10.0 KVA	AT 100%	=	10000 VA
RECEPTACLE	3.5 KVA	AT 50%	=	1750 VA
MISC	9.03 KVA	AT 80%	=	7224 VA
A/C CONDENSERS	11.8 KVA	AT 100%	=	11800 VA
25% LARGEST MOTOR LOAD	0.25 X 7.3 KVA		=	1825 VA
TOTAL, CONNECTED	37.73 KVA	DEMAND =	36849 VA	153.54 AMPS



2 Second Floor Electrical Plan

E1.0 1/8" = 1'-0"



1 First Floor Electrical Plan

E1.0 1/8" = 1'-0"

ELECTRICAL LEGEND

- DATA OUTLET
- TELEPHONE OUTLET & DATA
- TELEPHONE OUTLET
- JUNCTION BOX
- JUNCTION BOX EXISTING
- MOTOR SINGLE PHASE
- MOTOR THREE PHASE
- POWER ASSIST OPENER
- JUNCTION BOX (ELECTRIC DOOR STRIKE)
- DISCONNECT
- DISCONNECT NON-FUSED
- OCCUPANCY SENSOR WALL MOUNTED
- OCCUPANCY SENSOR CEILING MOUNTED
- EMERGENCY POWER TRANSFER SWITCH
- LVS MOD. EPC-A
- EXISTING OUTLET
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- GROUND FAULT INTERRUPTER
- DUPLEX RECEPTACLE
- DEDICATED CIRCUIT
- WEATHERPROOF
- SINGLE POLE SWITCH
- SINGLE POLE SWITCH EXISTING
- THREE WAY SWITCH
- DIMMER SWITCH
- TELEVISION OUTLET (EACH OUTLET TO BE HOME RUN TO TV CONTROL PANEL)
- SMOKE DETECTOR

ARCHITECT  
SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture

REVISIONS

11/21/22  
Date  
Revision 1  
Description

Project  
DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Drawing  
Electrical Plans

DRAWN BY: SJS  
CHECKED BY: MJM

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

E1.0



ELECTRICAL SPECIFICATIONS

**GENERAL**  
ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF N.E.C., LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

**WORK INCLUDED**  
THE CONTRACTOR SHALL PROVIDE ALL ITEMS, ARTICLES, MATERIALS, OPERATIONS, OR METHODS MENTIONED, LISTED OR SCHEDULED ON THE DRAWINGS AND IN THESE SPECIFICATIONS, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND ALL INCIDENTALS NECESSARY REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS.

**LOCAL CONDITIONS**  
THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH CONDITIONS WHICH WILL AFFECT THE WORK HE IS TO PERFORM.

**PERMITS & INSPECTIONS**  
THE CONTRACTOR SHALL TAKE OUT ALL PERMITS AND ARRANGE FOR ALL NECESSARY INSPECTIONS AND SHALL PAY ALL FEES AND EXPENSES IN CONNECTION THEREWITH AS A PART OF HIS WORK UNDER THEIR CONTRACT.

**SCHEDULE OF WORK**  
COORDINATE ALL WORK WITH THAT OF OTHER TRADES. PERFORM WORK IN A PHASED MANNER AS REQUIRED TO ACCOMMODATE THE PROJECT CONSTRUCTION SCHEDULE. COORDINATE ALL WORK AND THE SEQUENCE OF INSTALLATION WITH THE GC/CONSTRUCTION MANAGER.

**GUARANTEE & WARRANTY**  
CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED BY HIM OR HIS SUBCONTRACTORS TO BE FREE FROM DEFECT IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK, UNLESS A LONGER PERIOD IS STIPULATED UNDER SPECIFIC HEADINGS, AND HE SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER, ANY MATERIAL OR EQUIPMENT DEVELOPING DEFECTS AND SHALL ALSO MAKE GOOD ANY DAMAGE CAUSED BY SUCH DEFECTS OR THE CORRECTION OF DEFECTS.

**CUTTING & PATCHING**  
NO CUTTING OR BURNING OF HOLES THROUGH BEAMS OR OTHER STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE SPECIFIC PERMISSION OF THE ARCHITECT.

ALL OPENINGS IN WALLS, CEILINGS, OR FLOORS MADE BY THE CONTRACTOR SHALL BE NEATLY PATCHED BY THE SAME AFTER OTHER WORK IS DONE.

**GROUNDING**  
ALL CABINETS, CONDUIT SYSTEMS, PANELBOARDS, ETC., SHALL BE THOROUGHLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

**CONDUITS & FITTINGS**  
CONDUIT 2" AND SMALLER WHICH IS CONCEALED IN DRYWALL PARTITIONS, ABOVE ACCESSIBLE CEILINGS AND WHERE EXPOSED ABOVE 48" AFF, SHALL BE ELECTRICAL METALLIC TUBING.

CONDUITS EXPOSED TO THE WEATHER SHALL BE RIGID GALVANIZED CONDUITS. CONDUIT FITTINGS AT THESE LOCATIONS SHALL BE NONFERROUS CAST TYPE EQUIPPED WITH GASKETED COVERS.

ALL CONDUIT SHALL BE SECURELY FASTENED IN PLACE WITH APPROVED CLAMPS AND CAREFULLY REAMED BEFORE INSTALLING.

CONDUITS IN MECHANICAL EQUIPMENT SPACES AND UNFINISHED AREAS MAY BE RUN EXPOSED. ALL OTHER CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL, OR AT RIGHT ANGLES TO ADJACENT BUILDING LINES AND SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING EIGHT FEET.

GROUPS OF CONDUITS, WHERE SUSPENDED, SHALL BE SUPPORTED ON TRAPEZE TYPE HANGERS, USING 3/8" ROD AND CHANNEL IRON OR UNISTRUT. INDIVIDUAL CONDUITS NOT SUPPORTED ON PIPE STRAPS SHALL BE PROVIDED WITH CONDUIT CLAMPS OR RING HANGERS SUSPENDED ON RODS. PERFORATED IRON STRAPS OR SOFT IRON WIRE FOR PIPE SUPPORTS SHALL NOT BE USED.

CONNECTORS AND COUPLINGS FOR ELECTRICAL METALLIC TUBING SHALL BE OF THE SET- SCREW TYPE AS MANUFACTURED BY T & B, MIDWEST, OR ELECTRIC TUBE PRODUCTS CO.

ALL CONDUITS CALLED OUT TO BE STUBBED OFF, SHALL HAVE PROPER BUSHINGS, FINISH, ETC. SO THAT NO ROUGH EDGES ARE LEFT AT END OF CONDUITS.

ALL WIRING SHALL BE ENCLOSED IN A METAL RACEWAY, UNLESS OTHERWISE NOTED.

ALL EMPTY CONDUITS SHALL HAVE A NYLON "FISH TAPE" LEFT IN THEM.

ALL WALL AND FLOOR PENETRATIONS SHALL BE FIRE RATED TO MAINTAIN RATING OF SURFACE PENETRATED, OR 1 HOUR RATING MINIMUM. SEALING SHALL BE WITH 3M #CP25 FIRE PUTTY OR EQUAL BY NELSON.

**OUTLET BOXES**  
ALL FLUSH MOUNTED OUTLET BOXES SHALL BE STANDARD GALVANIZED STEEL TYPE NOT LESS THAN 1-1/2" DEEP, OF TYPE AND SIZE TO ACCOMMODATE DEVICES SPECIFIED WITH PROPER SPACE FOR WIRE AND SUPPORTS. BOXES SHALL BE EQUIPPED WITH PLASTER RINGS OR COVERS AS REQUIRED.

ALL OUTLET BOXES, PULL BOXES AND JUNCTION BOXES SHALL BE RIGIDLY SECURED IN PLACE IN AN APPROVED METHOD.

CONDUCTORS OF FIRE ALARM AND FIRE PROTECTION CIRCUITS SHALL NOT BE INSTALLED IN THE SAME CONDUIT WITH CIRCUITS OF OTHER SYSTEMS. NO OUTLET BOX FOR ONE CONDUIT SYSTEM SHALL BE USED AS A JUNCTION BOX FOR ANY OTHER SYSTEM.

**INSTALLATION OF CABLES**  
BEFORE CONDUCTORS ARE INSTALLED IN CONDUIT RUNS, THE CONDUITS SHALL BE SWABBED OR THE EQUIVALENT TO ENSURE THEIR DRYNESS AND FREEDOM FROM FOREIGN MATTER DETRIMENTAL TO THE CONDUCTOR INSULATION. ALL WIRING SHALL BE INSTALLED BEFORE FINISHES ARE APPLIED TO WALL AND CEILING SURFACES.

**WIRES & CABLES**  
ALL WIRE AND CABLE SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE CURRENT EDITION OF THE NEC AND SHALL MEET ALL ASTM SPECIFICATIONS. WIRE AND CABLE SHALL BE NEW, SHALL HAVE SIZE, GRADE OF INSULATION, VOLTAGE AND MANUFACTURERS NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVALS, SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING SIZE AND INSULATION TAGS.

WIRE AND CABLE SHALL BE SUITABLY PROTECTED FROM WEATHER AND DAMAGE DURING STORAGE AND HANDLING AND SHALL BE IN FIRST-CLASS CONDITION WHEN INSTALLED.

ALL WIRING SHALL BE THHN, THWN, XHHW OR TYPE THW UNLESS A HIGHER TEMPERATURE WIRE IS REQUIRED TO FEED LIGHTING FIXTURES, HIGH TEMPERATURE CUTOUTS, ETC.

ALL CONDUCTORS SHALL BE STRANDED, SOFT-DRAWN COPPER UNLESS OTHERWISE NOTED.  
WIRE AND CABLE SHALL BE AS MANUFACTURED BY SOUTHWIRE, GENERAL CABLE, OKONITE OR ANACONDA.  
MINIMUM SIZE WIRE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.  
PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

**WIRE CONNECTORS**  
SPICES IN CONDUCTORS NO. 8 AND SMALLER SHALL BE MADE BY PREINSULATED "SCOTCH- LOCK" OR IDEAL "WING-NUT" SPRING TENSION CONNECTORS, INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SPICES OF NO. 6 CONDUCTORS AND LARGER SHALL BE MADE WITH SOLDERLESS, COMPRESSION TYPE CONNECTORS, U.L. LABELED AND COMPRESSED WITH APPROVED TOOLS.

ALL SPICES SHALL BE INSULATED WITH AN APPROVED VINYL PLASTIC ALL WEATHER TAPE TO A THICKNESS EQUIVALENT OF THE CONDUCTOR INSULATION.

**WIRING DEVICES**  
GENERAL PURPOSE WIRING DEVICES: COMPLY WITH NEMA WD1.  
RECEPTACLES: UL 498, HEAVY-DUTY GRADE EXCEPT AS INDICATED OTHERWISE.

GROUND-FAULT CIRCUIT INTERRUPTER RECEPTACLES: UL 943, FEED-THROUGH TYPE, WITH INTEGRAL NEMA 5-20R DUPLEX RECEPTACLE; FOR INSTALLATION IN A 2 3/4 INCH DEEP OUTLET BOX WITHOUT AN ADAPTER.  
SNAP SWITCHES: QUIET-TYPE AC TOGGLE SWITCHES, 120/277V, 20A., COMPLYING WITH UL 20.

DEVICE BODIES SHALL BE WHITE FOR GENERAL USE DEVICES, ORANGE FOR ISOLATED GROUND RECEPTACLES, AND BROWN IN MECHANICAL SPACES, UNLESS OTHERWISE NOTED.

ACCEPTABLE MANUFACTURERS OF GENERAL PURPOSE WIRING DEVICES ARE AS FOLLOWS:  
ARROW-HART, BRYANT, HUBBELL, PASS & SEYMOUR, AND LEVITON

INSTALL DEVICES AND ASSEMBLIES PLUMB AND SECURE. MOUNT DEVICES FLUSH, WITH LONG DIMENSION VERTICAL, AND GROUNDING TERMINAL OF RECEPTACLES ON BOTTOM. GROUP ADJACENT SWITCHES USING MULTIGANG WALL OUTLET BOXES. DO NOT USE GANGABLE TYPE BOXES.

**LABELING**  
NAME PLATES SHALL INCLUDE THE FOLLOWING INFORMATION - EQUIPMENT IDENTIFICATION, CIRCUIT NUMBER, CIRCUIT ORIGINATION OR LOAD SERVED (AS APPROPRIATE).

NAME PLATES SHALL BE SECURED TO PANELBOARDS, SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS, IN CONSPICUOUS LOCATION.

**FUSES**  
ALL CIRCUITS AND OTHER EQUIPMENT SHALL BE SELECTED IN RATINGS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, TO PROVIDE A COORDINATED SYSTEM OF OVER-CURRENT PROTECTION. THUS IN CASE OF A FAULT OR HARMFUL OVERLOAD, ONLY THE FUSES NEAREST THE FAULT OR OVERLOADED EQUIPMENT SHALL OPEN.

**PANELBOARDS**  
PANELBOARDS SHALL CONFORM TO THE LATEST NEMA, UL, AND NEC STANDARDS AND THE FLOWING RATINGS AND DATA

SHALL BE DEAD FRONT TYPE WITH FLUSH OR SURFACE MOUNTED GALVANIZED STEEL CABINET PRIME COATED WITH AN INTERNAL ASSEMBLY OF CIRCUIT BREAKERS. TRIM SHALL HAVE HINGED AND LOCKED DOOR WITH HEAVY PLASTIC COVERED CIRCUIT DIRECTORIES, TO ALSO INDICATE VOLTAGE, PHASE, AND CAPACITY AS INDICATED ON DRAWINGS. ALL LOCKS SHALL BE KEYPED ALIKE. FRONT ASSEMBLIES SHALL BE PAINTED WITH A PRIME AND FINISH COAT OF MANUFACTURERS STANDARD FINISH. PANELS SHALL HAVE MAIN LUGS OR MAIN CIRCUIT BREAKER AS INDICATED ON DRAWINGS

CIRCUIT BREAKERS SHALL BE MOLDED PLASTIC CASE TYPE, AC RATED, BOLT ON, QUICK-MAKE, QUICK-BREAK, WITH TRIP FREE COMMON OPERATING HANDLE, POSITION INDICATION, AND COMMON TRIP FOR 2 AND 3 POLE CIRCUIT BREAKERS FROM THERMAL-MAGNETIC TRIP DEVICE. TRIP RATINGS AND NUMBER OF POLES SHALL BE AS INDICATED ON THE DRAWINGS AND MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 SYMMETRICAL AMPERES AT 120/240 VOLTS, AND 18,000 SYMMETRICAL AMPERES AT 277/480 VOLTS.

PANELBOARD DIRECTORIES SHALL DESIGNATE THE LIGHTING FIXTURES, ETC. CONTROLLED BY EACH BRANCH CIRCUIT IN THE PANEL. THE REQUIRED INFORMATION SHALL BE NEATLY TYPEWRITTEN ON DIRECTORIES IN EACH PANEL CIRCUIT.

PANELBOARDS SHALL BE UL LISTED. MAIN BUS BAR SHALL EXTEND THE FULL HEIGHT OF THE ENCLOSURE BEING PROVIDED REGARDLESS OF THE BRANCH CIRCUITS POSITIONS BEING CALLED FOR ON THE SCHEDULES

ACCEPTABLE MANUFACTURES OF PANELBOARDS INCLUDE SQUARE D, SIEMENS - I.T.E., EATON CULTER HAMMER, AND GENERAL ELECTRIC.

**TEST AND ADJUSTMENTS**  
ALL ELECTRICAL CIRCUITS SHALL BE TESTED AS SOON AS CONDUCTORS ARE INSTALLED, AND FINAL TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE WHEN ALL WORK IS COMPLETE, IF REQUIRED. IF CIRCUITS ARE NOT PROPERLY CONTROLLED AND INSULATED, MAKE NECESSARY CHANGES AND REPAIRS.

**LIGHTING**  
LIGHTING FIXTURES ARE TO BE PROVIDED AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE ON THESE DOCUMENTS. FIXTURES SUBMITTALS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO THE PURCHASE OF SAID DEVICES. ANY COSTS INCURRED IN THE ORDERING OF FIXTURES PRIOR TO ENGINEERS AUTHORIZATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

OCCUPANCY SENSORS ARE TO BE OF THE TECHNOLOGY NOTED ON THE PLANS, WITH MOUNTING LOCATIONS SPECIFIC TO PRODUCT CAPABILITIES FOR FULL COVERAGE OF THE SPACE. SENSORS TO BE PROVIDED WITH TECHNOLOGY TO RESPOND ONLY TO MOVING BODIES (AND NOT NOISE OR AIR MOVEMENT) TO AVOID IMPROPER OPERATION. DEVICES ARE TO BE EQUIPPED FOR AUTOMATIC TIME DELAY AND SENSITIVITY SETTINGS. APPROVED MANUFACTURERS INCLUDE WATTS TOPPER, LC&D, LEVITON, SENSOR SWITCH.

TIME SWITCHES ARE TO BE ELECTRONIC, WITH INTERNAL RELAY CAPABLE OF SWITCHING CIRCUIT LOADS. TIMING ELEMENT TO BE SELECTABLE FROM 5 MINUTES TO 1 HOUR, IN NO MORE THAN 20 MINUTE INTERVALS.

ALL PARTS AND DEVICES NECESSARY FOR THE INSTALLATION AND OPERATION OF THE SPECIFIED LIGHTING FIXTURES AND CONTROL SYSTEMS ARE TO BE PROVIDED BY THE CONTRACTOR AS A COMPLETE SYSTEM, IN FINAL WORKING ORDER. ANY LAMPS NOT OPERATIONAL MUST BE REPLACED PRIOR TO FINAL BUY-OFF.

GENERAL NOTES:

FIXTURES WITH THE NL SYMBOL ARE NIGHT LIGHT FIXTURES AND ARE TO BE HARDWIRED AHEAD OF ANY LOCAL SWITCHES.

WIRE ALL EXIT/EMERGENCY LIGHTS TO THE SAME CIRCUIT AS NORMAL LIGHTING IN THEIR RESPECTIVE AREAS CONNECTED AHEAD OF ANY SWITCHES.

BRANCH CIRCUIT WIRING GREATER THAN 100' FROM ELECTRIC PANEL TO OUTLET/FIXTURE TO BE INCREASED IN SIZE TO COMPENSATE FOR VOLTAGE DROP.

EMERGENCY LIGHT FIXTURES TO BE PROVIDED WITH WIRING AND/OR EQUIPMENT SO THAT FIXTURE CAN BE SWITCHED, NOT BE A NIGHT LIGHT AND HAVE THE EMERGENCY BATTERY PACK OPERATOR LAMP DURING POWER FAILURE ONLY. PROVIDE UL924 LISTED POWER TRANSFER CONTROL SWITCH EQUAL TO LVS MOD. EPC-A TO ALLOW DESIGNATED EMERGENCY LIGHTING FIXTURES TO ILLUMINATE AUTOMATICALLY REGARDLESS OF ROOM SWITCH/OCCUPANCY SENSOR ON/OFF POSITION TO COMPLY WITH LIFE SAFETY CODE REQUIREMENTS.

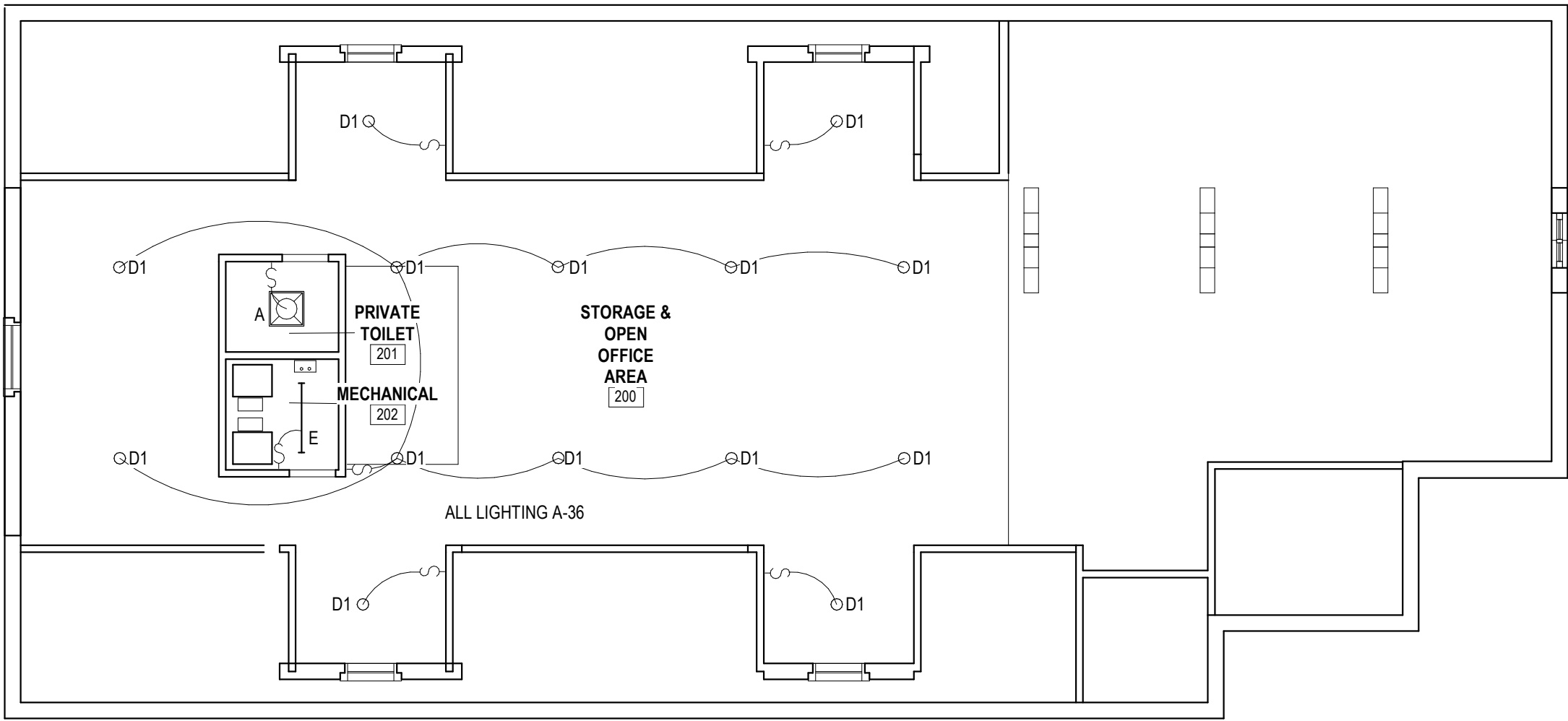
PROVIDE EXTERIOR MOUNTED PHOTOCELL SWITCH TO OPERATE EXTERIOR FIXTURES.

NOTE PROVIDE NICKEL-CADMIUM BATTERY PACKS FOR LED LIGHT FIXTURES NOTED TO BE EMERGENCY LIGHT FIXTURES CAPABLE OF 1 1/2 HR MIN LIGHT OPERATION AND WITH FIXTURE MTD TEST SWITCH. WIRE ALL NIGHT LIGHTS, EXIT AND EMERGENCY LIGHTS TO THE NEAREST LIGHT CIRCUIT AHEAD OF ANY SWITCHES.

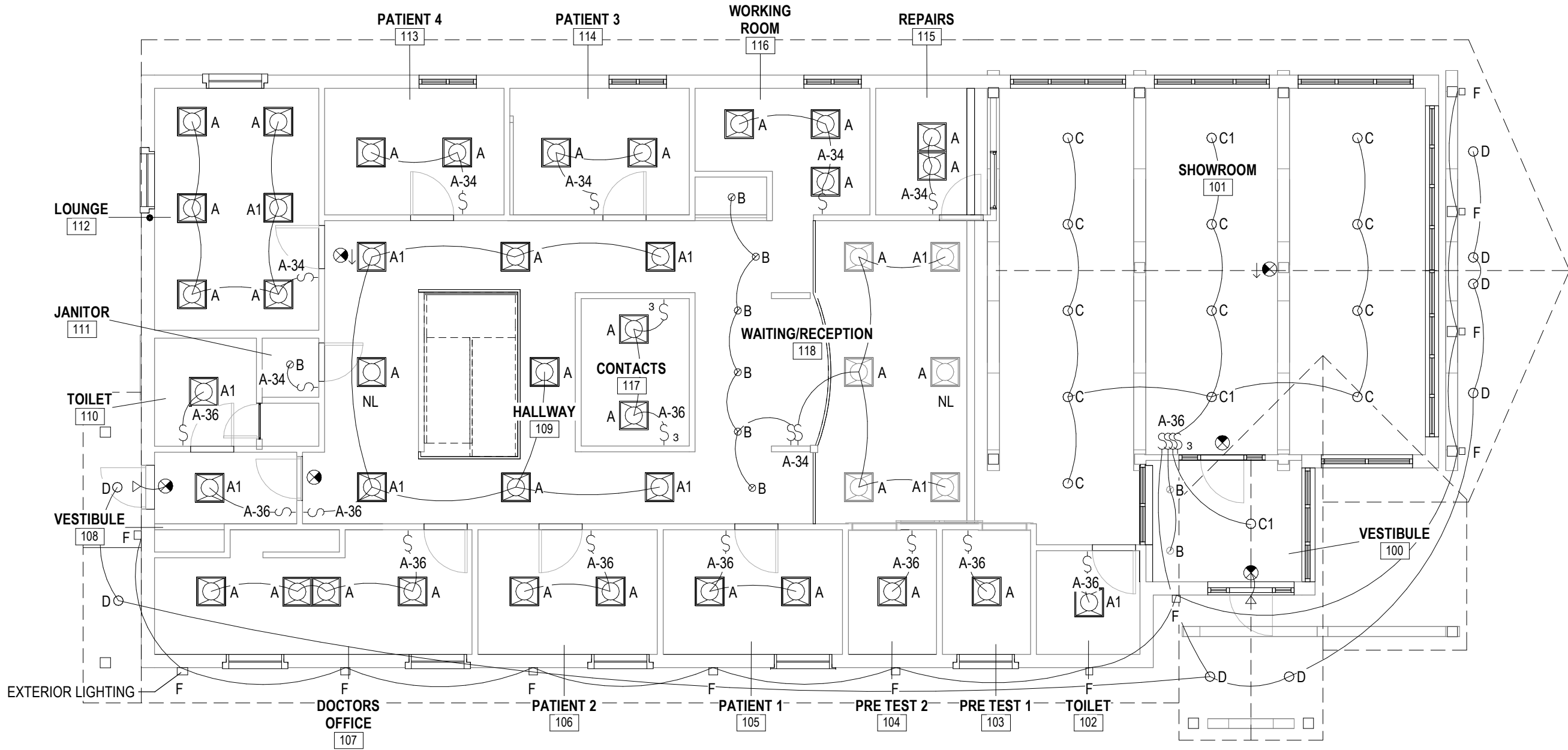
ALL ROOMS TO HAVE WALL MTD OCCUPANCY SENSORS TO CONTROL LIGHTING WHERE SWITCHES ARE SHOWN. SUITES AND CORRIDORS TO HAVE CEILING MTD OCCUPANCY SENSORS.

LIGHTING FIXTURE SCHEDULE

A	'LITHONIA'	2FSL4 48L EZ1 LP835	2'X4' LED RECESSED BASKET STYLE TROFFER, WITH ONE-PIECE COLD ROLLED STEEL HOUSING WITH COATED POLYESTER PAINTED WHITE FINISH, SATIN WHITE LENS, UNIVERSAL MVOLT ELECTRONIC DRIVER, 4800 LUMENS AND DIMMING DRIVER 1 - 47 WATT LED LAMP
A1			SAME AS A ONLY EMERGENCY LIGHT WITH 90 MIN BATTERY BACK UP
B	'JUNO'	TC22LED G4 14LM 35K 90CRI MVOLT EZ1	6" DIAMETER LED RECESSED DOWNLIGHT WITH SELF FLANGED SEMI SPECULAR REFLECTOR FINISH 16 GAUGE GALVANIZED STEEL HOUSING, 1.0 SPACING TO MOUNTING HEIGHT LIGHT DISTRIBUTION, 120 VOLT, ELECTRONIC DRIVER, 1400 LUMENS, AND CLEAR APERATURE/TRIM COLOR, 1 - 18 WATT LED LAMP
C	'FLUXWERX'	TC1 P09 R 12 B W2835 28W E1 M	PENDENT MTD 9" ROUND LED LAMP BLACK WITH 20%UP AND 80% DN LIGHT DISTRIBUTION WIDE BEAM SPREAD, 80 CRI, 3500K, 28 WATT, 4000 LUMENS, ELDOLED ECO 0-10V DIM 1% REMOTE DRIVER
C1			SAME AS C ONLY EMERGENCY LIGHT WITH 90 MIN BATTERY BACK UP
D	'FLUXWERX'	TC1 T05 R J1 BB M1835 21W E1 M	SURFACE MTD 5.5" ROUND LED LAMP BLACK WITH ADJUSTABLE BEAM DISTRIBUTION, MEDIUM BEAM SPREAD, 80 CRI, 3500K, 21 WATT, 2960 LUMENS, ELDOLED ECO 0-10V DIM 1% REMOTE DRIVER
D1			SAME AS D ONLY WIDE BEAM DISTRIBUTION
E	'LITHONIA'	ZL1N L24 3500LM FST MVOLT 35K 85CRI WH	CABLE MTD LOW PROFILE 2" STRIP CHANNEL LED FIXTURE COLD ROLLED STL, HIGH GLOSS BAKED WHITE ENAMEL WITH STRAIGHT BLAD LOUVRE MULTI-VOLT INPUT 0-10V DIMMING DRIVER LAMP 80CRI AT 3500 K 3500 LUMENS 31 WATTS
EX	'LITHONIA'	EXR LED EL M6	EXIT LIGHT WALL/CEILING MOUNTED WHITE THERMOPLASTIC HOUSING RED LETTER, DIRECTIONAL ARROW KNOCK OUTS SINGLE OR DOUBLE FACED 120V WITH 90 MIN NI CAD EMERGENCY BATTERY PACK, REMOTE HEAD ELA Q WITH L0309 LED LAMP WHERE SHOWN
EM	'LITHONIA'	ELM6L	EMERGENCY LIGHT WALL/CEILING MOUNTED WHITE THERMOPLASTIC HOUSING, WITH 90 MIN NI CAD EMERGENCY BATTERY PACK 1000 LUMENS



2 Second Floor Lighting Plan  
E2.0 | 1/8" = 1'-0"



1 First Floor Lighting Plan  
E2.0 | 1/8" = 1'-0"

SEAL OF ARCHITECT

ARCHITECT  
SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
TEL: 810-238-9647 | FAX: 810-238-4900  
www.starch.us

Good clients + Good design + Great architecture



REVISIONS

Date	Description
11/21/22	Revision 1

Project  
DIAMOND OPTICAL CARE OF FENTON  
1331 N. LEROY ST, FENTON, MI 48430

Drawing  
Lighting Plans

DRAWN BY: SJS  
CHECKED BY: MJM

PROJECT NUMBER 21-041  
DATE 10/25/2022  
SCALE As indicated  
SHEET NUMBER

E2.0