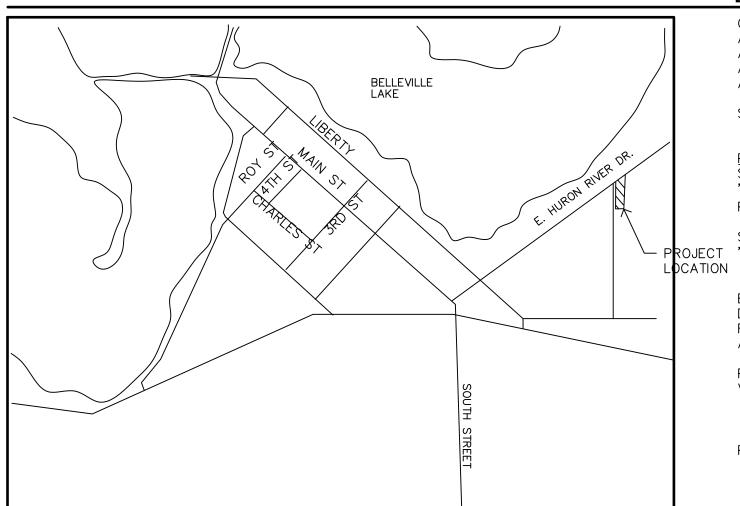
#### LOCATION MAP



PROJECT NORTH

## 

#### ZONING ANALYSIS

| CURRENT Z<br>ADJACENT<br>ADJACENT | ZONING | <br> |  | B-<br>B-<br>R- |
|-----------------------------------|--------|------|--|----------------|
| ADJACENT<br>ADJACENT              |        |      |  | R-2<br>B-3     |

SITE AREA =21,844 SF OR .501 ACRES

PROPOSED USE SECTION 3.1.8\_B\_PRINCIPAL PERMITTED USES\_ITEM XVIII "OTHER USES WHICH ARE SIMILAR TO THE ABOVE USES, AS DETERMINED BY THE PLANNING COMMISSION".

SECTION 3.1.8\_B\_PRINCIPAL PERMITTED USES\_ITEM VIII ROJECT "PROFESSIONAL AND ADMINISTRATIVE USES" VETERINARY HOSPITAL AND DANCE SCHOOL

> BECAUSE THE ORDINANCE DOES NOT ADDRESS A VETERINARY HOSPITAL OR A DANCE SCHOOL, WE ARE ASKING THE PLANNING COMMISSION TO RECOGNIZE BOTH FUNCTIONS AS SIMILAR TO A PROFESSIONAL AND ADMINISTRATIVE USE WHICH IS A PRINCIPAL PERMITTED USE IN THE B-3 DISTRICT.

PETS ARE DROPPED OFF FOR MEDICAL CARE FROM A PROFESSIONAL VETERINARIAN.

PROPOSED AREA OF BUILDING (GFA) =5,100 SF TOTAL =2,590 SF VETERINARY HOSPITAL =2,510 SF DANCE SCHOOL

MAXIMUM BUILDING HEIGHT: =30' OR THREE STORIES HEIGHT PROVIDED =23'-2"

REQUIRED FRONT YARD SETBACK: 40 FT PROVIDED

5.33 FT

REQUIRED REAR YARD BUILDING SETBACK: 20 FT PROVIDED

58.33 FT

REQUIRED SIDEYARD SETBACK: O FT PROVIDED 27.66 FT

MAXIMUM LOT COVERAGE: NO RESTRICTION PROVIDED 23.6%

MINIMUM WIDTH NO RESTRICTIONS

MINIMUM LOT SIZE:

NO RESTRICTIONS PARKING CALCULATIONS PER GFA MINIMUM PARKING REQUIRED FOR HOSPITAL =1/ EVERY 100 SF IN WAITING AREA + 1/EXAM ROOM

=816/100 = 9 SPACES =3 EXAM ROOMS = 3 SPACES=TOTAL 12 SPACES MINIMUM PARKING REQUIRED FOR SCHOOL =1/ 2 TEACHERS AND 1/ 10 STUDENTS =3 TEACHERS = 2 SPACE

=60 STUDENTS = 6 SPACES=TOTAL 8 SPACES TOTAL REQUIRED SPACES

=20 SPACES

PARKING PROVIDED =21 SPACES (INCLUDING 2 BARRIER FREE SPACES)

PARKING DIMENSIONS = 9' X 20'

AISLE DIMENSIONS = 20'

LOADING PROVIDED: 1 SPACE AT 20' X 50'

<u>EMPLOYEES</u> NUMBER OF EMPLOYEES HOSPITAL LARGEST SHIFT: HOURS OF OPERATION

NUMBER OF EMPLOYEES SCHOOL LARGEST SHIFT: HOURS OF OPERATION

# INTERIOR RENOVATIONS TO THE ANIMAL FRIENDS VETERINARY HOSPITAL 500 E HURON RIVER DRIVE, BELLEVILLE, MI 48111

DIRECTORY

ARCHITECT HOPPE DESIGN 47032 McBRIDE BELLEVILLE, MI 48111 734-218-2492

**APPLICANT AND OWNER** HEATHER KRULACK HKRULACK@GMAIL.COM 734.787.0018

4 PEOPLE 8 AM - 6 PM M-F 3 PEOPLE

4 PM - 9 PM M-F

| DF | YA | WI | NG | IND | EX |
|----|----|----|----|-----|----|
|    |    |    |    |     |    |

| DT   | TITLE SHEET   |
|--|---|
|  | RAL<br>STRUCTURAL NOTES<br>SPECIAL INSPECTIONS<br>STRUCTURAL FLOOR PLAN   |
| ARCHITEC<br>A001<br>A002<br>A101<br>A102<br>A103<br>A501 | TURAL<br>MATERIAL SPECIFICATION<br>CODE ANALYSIS<br>FLOOR PLAN<br>REFLECTED CEILING AND<br>INTERIOR ELEVATION<br>DEMOLITION PLAN<br>SCHEDULES |
| MECHANIC<br>M101   | AL<br>HVAC PLANS  |
| PLUMBING   |   |

P101

P102

E101

ELECTRICAL

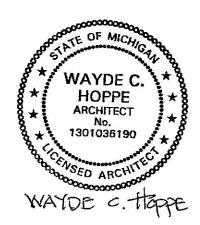
SANITARY PLUMBING PLAN

SUPPLY PLUMBING PLAN

LIGHTING PLAN

E102 POWER PLAN

PC SUBMITTAL **PROJECT NUMBER: 2202** DATE: 3/3/22





REVISIONS

PROJECT: 2202 DATE: 7.15.22 DRAWN: JPH CHECKED: WCH





| DESCRIPTION  | MANUFACTURER  | MODEL  | STYLE                               | FINISH  | COLOR      | STA NDARD S/<br>RESPON SIBILITY        | COMMENTS  | NIRMITAL |
|--|---|--|-------------------------------------|---------|------------|--|---|----------|
|  |   |  |                                     | DIVISIO | DN 3       |  | <u> </u>  |          |
| FOUNDATIONS,<br>BASEMENT WALLS,<br>EXTERIOR WALLS,<br>PIERS, COLUMNS,  | 3500 PSI AT 28 DAYS;<br>.45 WATE RICE MENT<br>RATIO; 1" MAX COARSE<br>AGGREGATE; 564<br>LBSICY CE MENT  |  |                                     |         | N/A        |  | AGGREGATE MAX. NOT TO EXCEED<br>1/4 OF SLAB THICKNESS; NP<br>CALCIUM CHLORIDE AD DITIVES  | Х        |
| FRAMING  | CONTENT; 5-7% AIR<br>ENTRAINMENT BY VOL;<br>3" SLUMP  |  |                                     |         |            |  |   |          |
| DRIVEWAYS, GARAGE<br>FLOORS, PORCHES,<br>PATIOS, STAIRS,   | 4000 PSI AT28 DAYS;<br>45 WATER/CEMENT<br>RATIO; 1" MAX COARSE<br>AGGREGATE; 584<br>LBS/CY CEMENT   |  |                                     |         | N/A        |  | AGGREGATE MAX. NOT TO EXCEED<br>1/4 OF SLAB THIC KNESS. FLOOR<br>LEVEL TO BE 1/8" IN 10"MAX; NO<br>CALCIUM CHLORIDE AD DITIVES.<br>SAW CUT CON TROL JOINTS WITHIN   | Х        |
| SIDEWALKS, CURBS   | and the second |  |                                     |         |            |  | 24 HOURS OF INSTALLATION OF<br>CONCRETE   |          |
| STEEL<br>REINFORCING   |   |  | GRADE 60                            |         | N/A        | ACI, ASTMA615; CR SI                   |   | Х        |
|  | FLAT SHEETS; 6X6 W1.4<br>X W1.4 UNO<br>SONNEBORN  |  | FUGITIVE                            |         | N/A<br>N/A | ASTMA18554T                            | PROVIDE CHAIRS AND BOLSTERS;<br>STAGGER OVERLAPS 2 FULL MESH<br>TWO COATS ON SLABS. VERIFY  |          |
| L'anne anne anne anne anne anne anne anne  | L&MCONSTRUCTION<br>CHEMICALS  | L&MCURE<br>R/R2  | DYE                                 |         | N/A        | ASTM-C-309 TYPE 1<br>AND 2             | COMPATIBILITY WITH FLOORING.  |          |
|  |   |  |                                     | DIVISIO |            |  |   |          |
| MORTAR: TYPE M-  | PORTLAND CEMENT   |  |                                     |         | NA         | ASTMC-270, 2500 PSI                    | NO WELL OR LAKE WATER IN  | X        |
| BELOW GRADE<br>MORITAR: TYPE S   | PORTLAND CEMENT   |  | fm 2000                             |         | BYOWNER    |  | MOR TAR<br>NO WELL OR LAKE WATER IN   | X        |
|  | PORTLAND CEMENT   |  | PSI                                 |         | BYOWNER    | ·····                                  | NORTAR<br>NO WELL OR LAKE WATER IN  | x        |
| BRICK<br>MASONRY GROUT   | 0.0425  |  |                                     | N/A     | NIA        | ASTMC-476, 3000 PSI                    | NOR TAR<br>ROD OR VIBRATE: LOW LIFT GROUT   | X        |
| FLASHING<br>WEEPS  | GRACE<br>DUR-O-WALL   | PERM-A-<br>BARRIER<br>D/A 1006                             | 40 MIL                              |         | N/A<br>N/A |  | SELFADHERING WITH PRIMER  | X        |
| TIES   | HOLIVAN AND<br>BARNARD  | DW 10/ VWT<br>TIE:<br>ADJUSTABLE                           |                                     | GALV.   | NA         |  | TWO PIECE, 12 X 32, 18 X 21 OR 16 X<br>24 (W X H) TIES WITHIN 8" OF<br>OPENINGS, ANGLES AND JOINTS.<br>MECH PLAY. 02" TO .05". NO DRIPS.<br>05" DEFLECTION UNDER 100LBS<br>TEN SION OR COMPRESSION. 9GA.<br>WIRE, 4 1/2" MAX CAVITY DEPTH, WL7<br>MAX AREA PER TIE = 267 SF | X        |
| MOISTURE BARRIER   |   | 378 OR RB  |                                     |         | N/A        |  |   | X        |
|  | AND BARNARD   | STO OK NB  |                                     | N/A     | NIA        |  | POLYETHYLENE, 8 MIL SLAB, 4 MIL<br>WALLS, 2'-0" OVERLAP BENEATH   |          |
|  |   |  |                                     |         |            |  | SLABS   |          |
|  |   |  |                                     | DIVISIO |            |  |   |          |
| STRUCTURAL STEEL   |   | Fy= 50 KSI<br>Fy= 50 KSI                                   |                                     |         | N/A<br>N/A |  | HOLES TO BE DRILLED NOT<br>BURNED   | X<br>X   |
| CHANNELS, ANGLES,<br>PLATES<br>HSS RECTANGULAR,  |   | Fy= 36 KSI<br>Fy= 46 KSI                                   |                                     |         | N/A<br>N/A | ASTMA36<br>ASTMA500                    |   | X<br>X   |
| SQUARE<br>BOLTS:<br>STRUCTURAL   |   | TYPE B   |                                     |         | N/A        | STRENGTH: F 1554                       | 3/4" UNO; PROVIDE WASHERS<br>BENEATH TURNED ELEMENTS  | х        |
| NUTS<br>BOLTWASHERS  |   |  |                                     |         | n/A<br>N/A | ASTMA-563<br>ASTMF-436; A-36           | HARDENED; HOT DIPPED  |          |
| STEEL LINTELS  |   |  | G 60                                |         | BYOWNER    |  | GALVANIZED<br>ALL EXTERIOR LINTELS TO BE<br>GALVANIZED AND PAINTED.   | X        |
| STEEL BARS,  |   | Fy= 33 KSI   | G 60                                |         | N/A        | A36/36M                                | INTERIOR LINTELS TO BE PAINTED.   |          |
| SHAPES, CLIPS<br>WELDING<br>ELECTRODES   |   | TYPE 1 HIGH<br>STRENGTH                                    | E-70<br>SERIES                      |         | NA         | AWS D1.1<br>SPECIFICATIONS;<br>ASTM233 |   |          |
| Sector and the sector of the s | L&MCONSTRUCTION<br>CHEMICALS  | CRYSTEX<br>5000 PSI  | NON-<br>METALLIC,<br>NON-<br>SHRINK | N/A     | NIA        | ASTMC1107                              | PRE-MXED  | Х        |
| STEEL STUDS: 12,<br>14, 16 GA  | CLARK DIETRICH  | Fy= 50 KSI   | CP 60<br>COATING                    |         | N/A        | ASTMC955                               | 16"OCUNO  |          |
| STEEL STUDS: 18, 20<br>GA.<br>STEEL TRACS AND  | CLARK DIETRICH  | Fy= 33 KSI<br>Fy= 33 KSI                                   | CP 60<br>COATING<br>CP 60           |         | N/A<br>N/A | ASTM C955<br>ASTM C955                 | 16"OC UNO<br>16"OC UNO  |          |
|  | CLARK DIETRICH  | 1 1/4"   | COATING                             |         | N/A        | A653                                   |   |          |
| CHANNEL: 25 GA<br>PRIMER   | TRUSCON   | FLANGE 3/4"<br>DEPTH<br>57 BAR OX                          | LEAD/<br>CHROMAT                    |         | RED        |  | NON-ASPHALTIC, RUST INHIBITING  | X        |
| ALUMINUM BREAK<br>METAL  | ALCOA   |  | E FREE<br>0.032                     | FACTORY | BYOWNER    | 8                                      | ALUMINUM IS NOT BE IN CONTACT<br>WITH TREATED LUMBER OR   |          |
|  |   |  |                                     |         |            |  | MORTAR  |          |
|  |   |  |                                     | DIVISIO |            |  |   |          |
| FRAMINGLUMBER  |   | S4S 19% MAX<br>MOISTURE<br>CONT.                           |                                     | N/A     | N/A        |  | STRUCTURAL SOUTHERN PINE,<br>HEM-FIR NO 2   |          |
|  |   |  |                                     |         | NA         | AWPA UC 4A                             | 80% RETENTION; AMONIA FREE  |          |
| TREATED LIMBER;<br>BELOW GRADE   |   |  |                                     |         | <u>.</u>   |  | :   | :        |
| BELOW GRADE<br>TREATED LIMBER;<br>ABOVE GRADE  | SIMPSON   | G-185  |                                     |         | nia<br>Nia | AWPA UC3B                              | 80% RETENTION; AMONIA FREE<br>HOT DIPPED GALVANIZED OR  | X        |
| BELOW GRADE<br>TREATED LIMBER;<br>ABOVE GRADE  | SIMPSON   | G-185  |                                     |         |            |  |   | X        |
| BELOW GRADE<br>TREATED LIMBER;<br>ABOVE GRADE<br>TREATED LUMBER<br>HARDWARE<br>TREATED LUMBER IN<br>CONTACT WITH<br>CONCRETE<br>BOLTS FOR WOOD   | SIMPSON   | SAE GRADE 2  |                                     |         |            |  | HOT DIPPED GALVANIZED OR<br>STAINLESS STEEL   | *        |
| BELOW GRADE<br>TREATED LIMBER;<br>ABOVE GRADE<br>TREATED LUMBER<br>HARDWARE<br>TREATED LUMBER IN<br>CONTACT WITH   | SIMPSON   | SAE GRADE 2<br>OR 5<br>Fb= 2600 P SI,<br>Fv= 285 P SI      |                                     |         |            |  | HOT DIPPED GALVANIZED OR<br>STAINLESS STEEL   |          |
| BELOW GRADE<br>TREATED LIMBER;<br>ABOVE GRADE<br>TREATED LUMBER<br>HARDWARE<br>TREATED LUMBER IN<br>CONTACT WITH<br>CONCRETE<br>BOLTS FOR WOOD<br>CONSTRUCTION<br>I JOISTS AND LVLS  | SIMP SON  | SAE GRADE 2<br>OR 5<br>Fb= 2600 PSI,                       |                                     |         |            |  | HOT DIPPED GALVANIZED OR<br>STAINLESS STEEL   |          |
| BELOW GRADE<br>TREATED LIMBER;<br>ABOVE GRADE<br>TREATED LUMBER<br>HARDWARE<br>TREATED LUMBER IN<br>CONTACT WITH<br>CONCRETE<br>BOLTS FOR WOOD<br>CONSTRUCTION<br>IJOISTS AND LVLS   |   | SAE GRADE 2<br>OR 5<br>Fb= 2600 PSI,<br>Fv= 285 PSI<br>UNO |                                     |         | NA         | AWPA C2                                | HOT DIPPED GALVANIZED OR<br>STAINLESS STEEL   | X        |

ARC SPOT WELDS (PUDDLE WELDS) TO SUPPORTS SHALL HAVE A DIAMETER OF 5/2" MINIMUM OR AN ELONGATED WELD O AND ¾" MINIMUM LENGTH. WELD METAL SHALL PENETRATE ALL LAYERS OF DECK MATERIAL AT END LAPS AND HAVE AD SUPPORTING MEMBERS. WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD " WELDING SHEET STEEL IN STRUCTURES" AWS D1.3. UNITS SHALL BE FASTENED TO THE STEEL SUPPORTS AT THE END OF THE UNITS AND AT INTERMEDIATE SUPPORTS AND SUPPORTS AT THE SIDE BOUNDARIES BY  $rac{3}{2}$ " DIAMETER PUDDLE WELDS AT 12" OC. SHEAR STUDS WELDED THROUGH DECK PLACE OF  $\frac{3}{4}$  DIAMETER PUDDLE WELDS. THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BETWEEN SUPPORTS BY BUTTON PUNCHING AT 24" OC UNO. STRUCTURAL STEEL UNLESS OTHERWISE NOTED, ALL BEAMS AND LINTELS BEARING ON MASONRY SHALL HAVE A MINIMUM BEARING LENGTH ( A MINIMUM OF TWO BLOCK COURSES AT 32" LONG OF SOLID MASONRY UNDER THE BEARING SURFACE. WHERE STEEL CONNECTIONS ARE NOT FULLY DETAILED ON THE DESIGN DRAWINGS (WITH ALL REQUIREMENTS FOR BOLTS, DIMENSIONS, ETC SHOWN) CONNECTIONS SHALL BE DESIGNED BY THE STEEL CONTRACTOR UNDER THE SUPERVISION OF STATE THAT HAS JURISDICTION OVER THE PROJECT. WHERE TYPICAL OR INCOMPLETE CONNECTIONS ARE SHOWN ON THE DESIGN DRAWINGS, THOSE DETAILS SHALL BE USED CONNECTION DESIGN TO BE COMPLETED BY THE CONTRACTOR. ALTERNATE CONNECTIONS DESIGNED BY THE STEEL CON PROVIDED IF REQUIRED DESIGN FORCES CANNOT BE ACHIEVED BY THE TYPICAL OR EXAMPLE CONNECTION, OR IF AUTHOF DETAIL IS PROVIDED BY THE DESIGN ENGINEER. WHERE CONNECTION FORCES ARE INDICATED ON THE DRAWINGS, PROVIDE CONNECTIONS DESIGNED TO RESIST THE FORCE WHERE CONNECTION FORCES ARE NOT INDICATED ON THE DRAWINGS. PROVIDE CONNECTIONS DESIGNED TO RESIST FORCE FOR SHEAR CONNECTIONS IN NON-COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 50% OF THE TOTAL ALLOWABI IN THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION. FOR SHEAR CONNECTIONS IN COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 75% OF THE TOTAL ALLOWABLE UN THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION. FOR MOMENT CONNECTIONS, DESIGN CONNECTIONS TO RESIST 100% OF MOMENT CAPACITY OF THE MEMBER. ALL FULLY TENSIONED A490 BOLTS SHALL HAVE WASHERS BENEATH BOTH NUT AND HEAD. PROVIDE TEMPLATES TO LOC BASE PLATES. SHOP AND FIELD CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. BOLTED CONNECTIONS SHALL A325-X USING LOAD INDICATOR WASHERS (LIW) OR LOAD INDICATOR BOLTS (LIB). BEAM CONNECTIONS SHALL PROVIDE SUPPORT A REACTION R EQUAL TO HALF THE SHEAR CAPACITY OF BEAM. USE 칼 DIA BOLTS, E70XX 칼 WELD AND 흄 . ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE LATEST REVISION OF ELECTRODES CONFORMING TO AWS A5.1 OR A5.5 SHALL BE USED FOR SHIELDED METAL ARC METHOD AND FX7-ECXX EI TO AWS F5.17 FOR SUBMERGED ARC METHOD. FOOTING BOTTOM ALL WELDS SHALL BE PROVIDED AS SHOWN IN THE STRUCTURAL DETAILS UNLESS THICKER WELD IS REQUIRED DUE TO METAILED IN NOT DETAILED, WELD SHALL BE DESIGNED BY A LICENSED ENGINEER RETAINED BY THE CONTRACTOR TO COLUMNS, BEAMS AND FORMED SURFACES IN DIRECT CONTACT WITH SOIL OR EXPOSED TO THE WEATHER, EXCEPT SLABS. 2" DECK SLAB TO TOP CAPACITY REQUIREMENTS LISTED ABOVE. WELD SIZES SHALL BE INCREASED AS NEEDED TO MEET THE FOLLOWING MINIM 1 J" DECK SLAB TO BOTTOM REQUIREMENTS BASED ON THE SMALLER MATERIAL THICKNESS OF THE PIECES OF STEEL BEING WELDED TOGETHER: INTERIOR FACES OF WALLS AND SLABS NOT EXPOSED TO WEATHER ₹" INTERIOR SLABS MATERIAL THICKNESS MIM FILLET WELD SIZE (PROVIDE LARGER WELD IF REQUIRED FOR STRESS) ¼" AND UNDER OVER ¼" TO ½" OVER ½" TO ¾" over ¾" IF PENETRATIONS THROUGH WEBS OF STEEL BEAMS WILL BE REQUIRED, CONTRACTOR TO NOTIFY ENGINEER OF RECORD. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS AND NON-STRUCTURAL STEEL. STEEL JOISTS PROVIDE AND INSTALL BRIDGING IN ACCORDANCE WITH STEEL JOISTS INSTITUTE STANDARDS. ALL ENDS OF BRIDGING LIN PROVIDE AND INSTALL BRIDGING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHI MASONRY WALLS SHALL BE ANCHORED THERETO IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WH TERMINATE AT A MASONRY WALL, THE FIRST AND SECOND BAYS FROM THE END OF THE BRIDGING IS TO BE DIAGONAL MANUFACTURER TO PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO SATISFY SJI UPLIFT REQUIREMENTS. WHERE STEEL JOISTS SUPPORT MOVEABLE PARTITIONS, JOIST MANUFACTURER SHALL DESIGN JOIST FOR A MAXIMUM LIVE OF THE SMALLER OF  $\frac{1}{2}$ " AND L/360. JOIST MANUFACTURER SHALL LIMIT JOIST DEFLECTION DUE TO LIVE/SNOW LOAD TO L/360. THE ENDS OF STEEL JOIST SHALL BEAR A MINIMUM DISTANCE OF 2½ INCHES OVER STEEL SUPPORTS AND 4 INCHES OVE THE ENDS SHALL BE FASTENED BY BOLTING AND OR WELDING. ERECTION OF JOISTS AND JOIST BRIDCING SHALL CONFORM TO ALL REQUIREMENTS OF OSHA AND JOIST MANUFACTURER. ALL LUMBER IN CONTACT WITH MASONRY OR STEEL TO BE PRESERVATIVE TREATED. ALL FLUSH FRAMED CONNECTIONS ARE TO MADE USING JOIST HANGERS DESIGNED FOR THE SPECIFIC CONDITION UNLESS ARE PROVIDED. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL ENGINEERED WOOD MATERIAL INDICATING PRODUCTS, DETAILS, CONNECTIO REQUIRED BY THE MANUFACTURE TO MEET PROJECT LOADING REQUIREMENTS. OBSERVE ALL CODE REQUIREMENTS FOR BRIDGING, BORING, AND NOTCHING OF STUDS AND JOISTS. FOR BRIDGING, BORING ENGINEERED WOOD PRODUCTS OBSERVE ALL MANUFACTURER REQUIREMENTS. BRIDGING SHALL BE PROVIDED FOR ALL ROOF RAFTERS. ALL ROOF RAFTERS ARE TO BE 24" ON CENTER UNLESS OTHERWISE NOTED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION TO ACCOUNT FOR ALL FORCES,

INCLUDING BUT NOT LIMITED TO FORCES FROM GRAVITY, EARTH, WIND AND UNBALANCED FORCES DUE TO CONSTRUCTION SEQUENCES. THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND FOUNDATIONS THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 3'-6" MINIMUM BELOW FINISHED GRADE. IF THE BUILDING WILL BE UNDER CONSTRUCTION BRACING OR UNDERPINNING AS REQUIRED OR LEAVE FOOTING ELEVATION AS DESIGNED AND PROVIDE CONTINUED PROTECTION AND HEAT TO PREVENT FORMATION OF FROST BELOW FOOTING AND ADJACENT TO FOOTING. PRETREAT EXCAVATIONS WITH TERMITICIDE AND INSPECT EXCAVATIONS PRIOR TO POURING CONCRETE. TEMPORARY BRACING MUST BE PROVIDED TO RESIST ALL LATERAL FORCES UNTIL STRUCTURAL SYSTEM IS SELF SUPPORTING. INSPECT ALL REINFORCING BEFORE POURING CONCRETE. MASONR' CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING AND ALSO NCMA TEK 304B "BRACING CONCRETE MASONRY WALLS DURING THE DISCONTINUOUS ENDS OF ALL MASONRY WALLS SHALL BE SOLIDLY GROUTED A MINIMUM OF 8" OR ONE BLOCK CELL AND REINFORCED FOR PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, FINISH STRIPS, POUR STOPS, AND OTHER ACCESSORIES AS TO SUPPORT METAL DECKS AS REQUIRED. FASTEN STEEL DECK UNITS TO STRUCTURAL SUPPORTS USING HEX WASHER HEAD TEK SCREWS OR ARC SPOT WELDS ACCORDING TO

SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF BRACING AND SHALL BE SHORED AND/OR BRACED BY THE CONTRACTOR AS NECESSARY FIELD MEASURE AND VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE FABRICATION. ANTICIPATED BEARING CAPACITY FOR APPROPRIATE RE-DESIGN OR LOWERING OF FOOTING. SUCH ADDITIONAL FOOTING DEPTH WILL CAUSE UNDERMINING OF ADJACENT EXISTING FOOTINGS OR STRUCTURES, PROVIDE APPROPRIATE SHORING, STRUCTURES, PAVEMENTS AND UTILITIES. PROVIDE 🖥 CONCRETE COVER MINIMUM FROM TOP OF SLAB TO SLAB REINFORCING AND LAP ALL STEEL FABRIC SPLICES 6" MIN. REINFORCING SHALL BE CENTERED IN SLAB. REINFORCING MASONRY WALLS ARE TO BE ADEQUATELY BRACED DURING CONSTRUCTION. SEE "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" FOR RECOMMENDATIONS REGARDING BRACING. THEIR FULL HEIGHT WITH ONE #5 BAR UNO. AT GROUTED CELLS LIFTS OF GROUT SHALL BE KEYED 4" INTO THE COURSE OF MASONRY BELOW. ALL CMU BOND BEAMS TO HAVE (2) #4 BARS CONTINUOUS. PROVIDE (2) #4 L BARS AT EVERY CORNER LAPPED 3'-0" WITH CONTINUOUS. BARS. VERTICAL CONTROL JOINTS IN CMU WALLS TO HAVE A MINIMUM 3/3" GAP AND SHALL BE LOCATED BY THE ARCHITECT, BUT NOT MOVE THAN BRICK TIES SHALL BE GALVANIZED ADJUSTABLE 2-PIECE WIRE TIES OF NOT LESS THAN 9 GAGE AND SHALL BE SPACED AT 16" OC VERTICALLY WHERE MASONRY MEETS STRUCTURAL MEMBERS SUBJECT TO VERTICAL DEFLECTION, PROVIDE ALLOWANCE FOR VERITICAL MOVEMENT OF L/240 PROVIDE A 24" LAP AT FOUNDATION DOWELS. UNLESS OTHERWISE NOTED, ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM AND SHALL BEAR AT LEAST 2"

UNTIL STABILIZED BY VIRTUE OF COMPLETED CONNECTIONS. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY. THE TESTING AND INSPECTION AGENCY SHALL VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO INSTALLATION OF FOOTING. NOTIFY ENGINEER OF ANY VARIATION FROM DURING FREEZING WEATHER, ALL INTERIOR FOUNDATIONS SHALL BE DEPRESSED 3'-6" BELOW CONSTRUCTION GRADE FOR FROST PROTECTION. IF THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ADJACENT STRUCTURES, PAVEMENTS, AND UTILITIES. ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SHORING, BRACING, AND DEWATERING THAT IS REQUIRED TO PROPERLY CONSTRUCT THE FOUNDATIONS AND PROTECT ADJACENT CONCRETE SLABS PLUMBING AND ELECTRICAL CONTRACTORS ARE TO PROVIDE ALL REQUIRED UNDERSLAB WORK PRIOR TO POURING THE FLOOR SLAB. SLOPE SLABS TO FLOOR DRAINS. VERIFY DEPRESSIONS AND FLOOR FINISHES. GRANULAR BASE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY UNDER ALL SLABS ON GRADE. MINIMUM CONCRETE COVERING SHALL BE: PLACE LADDER TYPE HORIZONTAL JOINT REINFORCING WITH PREFORMED LAPPED CORNER REINFORCING. 20**'**--0" OC. AND HORIZONTALLY. OF STRUCTURAL MEMBER. BOND BEAM REINFORCING TO BE CONTINUOUS ACROSS CONTROL JOINTS. AIR TEMPERATURE AT TIME OF MASONRY INSTALLATION SHALL BE 40<T<90 DEGREES F. METAL DECK ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED OR FURNISH HIGHER GAGE DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS. CONTRACTOR SHALL SUBMIT ALTERNATE FOR APPROVAL. REQUIRED FOR PROPERLY FINISHED JOB, EVEN IF NOT SPECIFICALLY SHOWN ON THE DRAWINGS. PROVIDE BEARING ANGLES WELDED TO COLUMNS

MANUFACTURER'S SPECIFICATIONS AND IN CONFORMANCE WITH THE STEEL DECK INSTITUTES SPECIFICATION SECTION 4.4.

#### METAL STUD SIZING

| ALLOWABLE HEIGHTS<br>STUD SIZE<br>3 $\frac{1}{2}$ " OR 4" X 20 GA<br>3 $\frac{1}{2}$ " OR 4" X 18 GA<br>3 $\frac{1}{2}$ " OR 4" X 16 GA | 16" OC/ 33 KSI **<br>13'-11"<br>18'-2"<br>19'-6" |
|---|--|
| 5 ½" OR 6" X 20 GA  | 23'-11"  |
| 5 ½" OR 6" X 18 GA  | 27'-2"   |
| 5 ½" OR 6" X 16 GA  | 30'-0"   |

\*\* HEIGHTS BASED ON 16" OC STUD SPACING, 5 PSF LATERAL LOAD, L/240 DEFLECTION, NON-STRUCTURAL APPLICATION. BRIDGING AT MIDPOINTS OR 8'-0" MAX

| STUD SIZE<br>3 $\frac{1}{2}$ " OR 4" X 20 GA<br>3 $\frac{1}{2}$ " OR 4" X 18 GA<br>3 $\frac{1}{2}$ " OR 4" X 16 GA                       | 11'-0"<br>12'-0"                     | 12" OC/33 KSI***<br>12'-3"<br>13'-3"<br>14'-3" |
|--|--------------------------------------|--|
| 5 $\frac{1}{2}$ " OR 6" X 20 GA<br>5 $\frac{1}{2}$ " OR 6" X 18 GA<br>5 $\frac{1}{2}$ " OR 6" X 16 GA<br>5 $\frac{1}{2}$ " OR 6" X 12 GA | 18'-0"                               | 18'-0"<br>19'-8"<br>21'-3"<br>28'-0"           |
|  | 20'-6"<br>22'-6"<br>24'-3"<br>28'-9" | 22'-8"<br>24'-9"<br>26'-8"<br>31'-8"           |
| STUD SIZE<br>3 <u>1</u> " OR 4" X 20 GA<br>3 <u>1</u> " OR 4" X 18 GA<br>3 <u>1</u> " OR 4" X 16 GA                                      | 12'-0"<br>13'-3"                     | 12" OC/50 KSI***<br>13'-6"<br>14'-8"<br>15'-8" |
| 5 $\frac{1}{2}$ " OR 6" X 20 GA<br>5 $\frac{1}{2}$ " OR 6" X 18 GA<br>5 $\frac{1}{2}$ " OR 6" X 16 GA<br>5 $\frac{1}{2}$ " OR 6" X 12 GA | 19'-8"                               | 20'-0"<br>21'-8"<br>23'-4"<br>31'-0"           |
|  | 22'-6"<br>24'-9"<br>26'-8"<br>31'-8" | 25'-0"<br>27'-3"<br>29'-4"<br>34'-9"           |

\*\*\* HEIGHTS BASED ON 20 PSF LATERAL LOAD, L/240 DEFLECTION, STRUCTURAL APPLICATION. BRIDGING AT  $\frac{1}{3}$ POINTS OR 8'-0" MAX.

ROOF DESIGN NOTES: A. VERTICAL WEB MEMBERS FOR ALL GABLE END TRUSSES SHALL BE DESIGNED TO RESIST A HORIZONTAL WIND LOAD

DESIGNED WIND SPEED WITHOUT EXCEEDING THE DEFLECTION LIMIT OF L/600 OF THEIR RESPECTIVE VERTICAL SPANS BRIDGING FOR BOTTOM CHORDS SHALL BE DESIGNED TO DISTRIBUTE THE HORIZONTAL WIND LOAD PROPOSED ON THE SHEAR WALLS AND SHALL BE DESIGNED FOR A TOTAL IMPOSED WIND LOAD ON BUILDING INCLUDING WINDWARD PRESSURE FROM THE DESIGNED WIND SPEEDS.

#### MASONRY LINTEL SCHEDULE

PROVIDE 8" MIN. BEARING EA. END WITH (3) COURSES BENEATH BEARING GROUTED SOLID

- ALL LINTELS TO BE 3/8" MIN. AND EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED

HORIZONTAL LEGS 4" MASONRY: ONE 3 1/2" 6" MASONRY: TWO 2 1/2" 8" MASONRY: TWO 3 1/2" 10" MASONRY: TWO 4" 12" MASONRY: TWO 5"

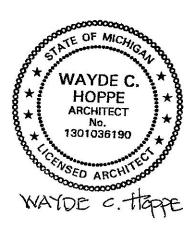
VERTICAL LEGS SPANS LESS THAN 4'-0'': 3 1/2'' MIN. SPANS 4'-0" TO 6'-8": 5" MIN. SPANS OVER 6'-8" SEE PLANS OR CONTACT ARCHITECT FOR SIZING

NOTES: PROVIDE BRICK SOLIDS AT ALL SILL ENDS.

RETURN BRICK AT WINDOWS ADJACENT TO SIDING ALL BRICK LINTELS TO BE GALVANIZED.

| OF <b>%" MINIMUM WIDTH</b><br>ADEQUATE FUSION TO THE<br>" SPECIFICATION FOR |  |                          |                  |  |  |  |
|---|--|--------------------------|------------------|--|--|--|
|   |  | Г                        | )ES              |  |  |  |
| ND TO THE STEEL   | TABLE 1604.5                           |                          |                  |  |  |  |
| CK MAY BE USED IN   |  |                          | WIN              |  |  |  |
|   | FIGURE 1609.3.1                        | V                        | BAS              |  |  |  |
|   | SECTION 1609.4.3                       |                          | EXF              |  |  |  |
| OF 7 🖁 AND SHALL HAVE   |  | lw                       | IMP<br>ADJ       |  |  |  |
| OF 7 2 AND SHALL HAVE   |  |                          | SNO              |  |  |  |
| S, PLATES, WELDS,   | FIGURE 1608.2                          | Pg                       | GR               |  |  |  |
| A P.E. LICENSED IN THE  |  | ls                       | IMP              |  |  |  |
|   |  | Се                       | EXF              |  |  |  |
| ) AS A BASIS FOR<br>NTRACTOR WILL BE  |  | Ct                       | THE              |  |  |  |
| ORIZATION TO ALTER THE  |  |                          | ROO              |  |  |  |
|   |  |                          | CEI              |  |  |  |
| CE SHOWN.   |  |                          | тот              |  |  |  |
| CES AS FOLLOWS:<br>BLE UNIFORM LOAD SHOWN                                   |  |                          | LOA              |  |  |  |
| BLE UNIFORM LOAD SHOWN  |  |                          | soi              |  |  |  |
| INIFORM LOAD SHOWN IN   |  |                          | SEL              |  |  |  |
|   |  |                          | (MIN<br>PRE      |  |  |  |
| DCATE ANCHOR BOLTS AND  |  |                          | SEI              |  |  |  |
| L CONFORM TO ACTN   | TABLE 1604.5                           |                          | RIS              |  |  |  |
| L CONFORM TO ASTM<br>SHEAR CAPACITY TO                                      |  | l <sub>e</sub>           | SEL              |  |  |  |
| ANGLE THICKNESS.  | FIGURE 1613.3.1(1)                     | $S_{S}$                  | MAF<br>RES       |  |  |  |
| THE AWS D1.1. E70XX   | FIGURE 1613.3.1(2)                     |                          | MAF              |  |  |  |
| ELECTRODE CONFORMING  |  | <b>S</b> <sub>1</sub>    | RES              |  |  |  |
| MATERIAL THICKNESSES.   | SECTION 1613.3.2<br>SECTION 1613.3.4   |                          | SITI             |  |  |  |
| O MEET CONNECTION   | SECTION 1013.3.4                       | $\mathbf{S}_{\text{DS}}$ | RES              |  |  |  |
| IMUM WELD SIZE  | SECTION 1613.3.4                       | ODS                      | ON               |  |  |  |
|   |  | $S_{D1}$                 | RE               |  |  |  |
|   | SECTION 1613.3.3,<br>TABLE 1613.3.3(2) | -                        |                  |  |  |  |
|   | SECTION 1613.3.3,                      | F <sub>A</sub>           | -                |  |  |  |
|   | TABLE 1613.3.3(2)                      | $F_{V}$                  |                  |  |  |  |
|   |  | S <sub>MS</sub>          | F <sub>A</sub> S |  |  |  |
|   |  | S <sub>M1</sub>          | F <sub>√</sub> S |  |  |  |
|   | SECTION 1613.3.1                       | SDC                      | SEI              |  |  |  |
|   |  |                          | NO<br>SEI        |  |  |  |
| LINES TERMINATING AT<br>HERE BRIDGING DOES NOT                              |  |                          | ALL              |  |  |  |
| X-BRIDGING.   |  |                          | MOI              |  |  |  |
|   |  |                          | OF .             |  |  |  |
| /E/SNOW LOAD DEFLECTION   |  |                          |                  |  |  |  |
|   |  |                          | <u>RE</u>        |  |  |  |
|   | STRUCTURAL LOADS                       |                          | ASC              |  |  |  |
| VER ALL OTHER SUPPORTS.   | CONCRETE                               |                          | ACI              |  |  |  |
|   |  |                          | ACI              |  |  |  |
| R.  |  |                          |                  |  |  |  |
|   |  |                          | ACI              |  |  |  |
|   |  |                          | POF              |  |  |  |
| S OTHER CONNECTIONS   |  |                          | "DE              |  |  |  |
|   | MASONRY                                |                          | ACI              |  |  |  |
| IONS AND ACCESSORIES AS   |  |                          | ACI              |  |  |  |
| DING AND NOTOUING OF  |  |                          |                  |  |  |  |
| RING AND NOTCHING OF  |  |                          | CO               |  |  |  |
|   | BRICK                                  |                          | BIA              |  |  |  |
|   | STEEL                                  |                          | AIS              |  |  |  |
|   |  |                          | STF              |  |  |  |
|   | WELDING                                |                          | AME              |  |  |  |
| D RESULTING FROM THE NS.  | STEEL JOISTS                           |                          | D1.<br>STE       |  |  |  |
| THE COMPLETE BUILDING TO  |  |                          | SPE              |  |  |  |
| RD AND LEEWARD  | METAL DECK                             |                          | STE              |  |  |  |
|   | WOOD                                   |                          | "NA<br>FOF       |  |  |  |
|   |  |                          |                  |  |  |  |

|                    | Г                     | ESIGN LOADS                                 |         |
|--------------------|-----------------------|---|---------|
| TABLE 1604.5       |                       |   |         |
| TIDEE 1004.0       |                       |   |         |
|                    |                       | WIND  |         |
| FIGURE 1609.3.1    | V                     | BASIC WIND SPEED (MPH)                      | 115     |
| SECTION 1609.4.3   |                       | EXPOSURE CATEGORY                           | В       |
|                    | lw                    | IMPORTANCE FACTOR                           | 1       |
|                    |                       | ADJUSTMENT FACTOR                           | 1.12    |
|                    |                       |   |         |
|                    |                       | SNOW  |         |
| FIGURE 1608.2      | Pg                    | GROUND SNOW (PSF)                           | 25.00   |
|                    | ls                    | IMPORTANCE FACTOR                           | 1.00    |
|                    | Ce                    | EXPOSURE FACTOR                             | 1.00    |
|                    | Ct                    | THERMAL FACTOR                              | 1.00    |
|                    |                       |   |         |
|                    |                       | ROOF DEAD LOAD (PSF)                        | 20.00   |
|                    |                       | CEILING DEAD LOAD (PSF)                     | 5.00    |
|                    |                       | TOTAL UNFACTORED DESIGN ROOF                |         |
|                    |                       | LOAD (PSF)                                  |         |
|                    |                       | 25 + 20 + 5 =                               | 50      |
|                    |                       | SOILS                                       |         |
|                    |                       | SELF SUPPORTING FOUNDATION                  | 3000    |
|                    |                       |   |         |
|                    |                       | PRESSURE IN PSF)                            |         |
|                    |                       |   |         |
|                    |                       | SEISMIC                                     |         |
| TABLE 1604.5       |                       | RISK CATEGORY                               |         |
|                    | l <sub>e</sub>        |   | 1.00    |
| FIGURE 1613.3.1(1) |                       | MAPPED TWO SECOND SPECTRAL                  | 4       |
|                    | S <sub>S</sub>        |   | .1g     |
| FIGURE 1613.3.1(2) |                       | MAPPED ONE SECOND SPECTRAL                  |         |
|                    | <b>S</b> <sub>1</sub> | RESPONSE ACCELERATION                       | .04g    |
| SECTION 1613.3.2   |                       | SITE CLASS                                  | D       |
| SECTION 1613.3.4   |                       | SHORT PERIOD DESIGN SPECTRAL                |         |
|                    | S <sub>DS</sub>       | RESPONSE ACCELERATION                       | 0.1     |
| SECTION 1613.3.4   | -                     | ONE SECOND DESIGN SPECTRAL                  | 0.00    |
|                    | S <sub>D1</sub>       | RESPONSE ACCELERATION                       | 0.08    |
| SECTION 1613.3.3,  | _                     |   | 4.0     |
| TABLE 1613.3.3(2)  | F <sub>A</sub>        |   | 1.6     |
| SECTION 1613.3.3,  | -                     |   | 24      |
| TABLE 1613.3.3(2)  | F <sub>V</sub>        | 5.0   | 2.4     |
|                    | S <sub>MS</sub>       | F <sub>A</sub> S <sub>S</sub>               | 0.16    |
|                    | S <sub>M1</sub>       |   | 0.12    |
| SECTION 1613.3.1   | SDC                   | SEISMIC DESIGN CATEGORY                     | A       |
|                    |                       | NO SPECIAL ANALYSIS REQUIRED FOR            |         |
|                    |                       | SEISMIC DESIGN CATEGORY A                   |         |
|                    |                       | ALL LOADS ARE SUBJECT TO                    |         |
|                    |                       | MODIFICATION PER REQUIREMENTS               |         |
|                    |                       | OF ASCE-7                                   |         |
|                    |                       |   |         |
|                    |                       |   |         |
|                    | ŀ                     | REFERENCES                                  |         |
|                    |                       |   |         |
| STRUCTURAL LOADS   |                       | ASCE-7                                      | 2010    |
| CONCRETE           |                       | ACI 301                                     |         |
|                    |                       | ACI 318 BUILDING CODE                       | 2010    |
|                    |                       | REQUIREMENTS FOR REINFORCED                 |         |
|                    |                       |   |         |
|                    |                       | ACI SP 66                                   | 0044    |
|                    |                       | PORTLAND CEMENT ASSOCIATION                 | 2011    |
|                    |                       | "DESIGN AND CONTROL OF<br>CONCRETE MIXTURE" |         |
| MASONRY            |                       | ACI 530/ASCE 5                              | 2013    |
|                    |                       | ACI 530.1/ASCE 5                            | 2010    |
|                    |                       | NCMA TEK 3-4B " BRACING CONCRETE            | 2005    |
|                    |                       | MASONRY WALLS DURING                        | 2000    |
|                    |                       | CONSTRUCTION"                               |         |
| BRICK              |                       | BIA "TECHNICAL NOTES ON BRICK               |         |
|                    |                       | CONSTRUCTION"                               |         |
| STEEL              |                       | AISC "SPECIFICATION FOR                     | 13TH    |
|                    |                       | STRUCTURAL STEEL BUILDINGS"                 | EDITION |
| WELDING            |                       | AMERICAN WELDING SOCIETY AWS                | 2015    |
|                    |                       | D1.1/D1.1M                                  | -       |
| STEEL JOISTS       |                       | STEEL JOISTS INSTITUTE "STANDARD            | 2015    |
|                    |                       | SPECIFICATION"                              |         |
|                    |                       | STEEK DECK INSTITUTE                        | 1987    |
| METAL DECK         |                       | "NATIONAL DESIGN SPECIFICATION              | 2015    |
| METAL DECK<br>WOOD |                       | I NATIONAL DESIGN SPECIFICATION I           | 2010    |
|                    |                       | FOR WOOD CONSTRUCTION"                      | 2013    |
|                    |                       |   | 2010    |





REVISIONS

PROJECT: 2202 DATE: 7.15.22 DRAWN: JPH CHECKED: WCH





## STATEMENT OF SPECIAL INSPECTIONS

| STATEMENT OF SPECIA  | AL INS | PEC   | TIONS                                 |                  | 3) SHEAR<br>REINFORCEMENT   | Х     |               |                |                       |                       |
|--|--------|-------|---------------------------------------|------------------|---|-------|---------------|----------------|-----------------------|-----------------------|
|  | FREQ   | UENCY | REFERENCE CRITE                       | RIA              | 4) OTHER REINFORCING  |       | Х             |                |                       |                       |
| STEEL CONSTRUCTION (TABLE 1704.3)                                  |        | PERI- |                                       | IBC<br>REF'RENCE | STEEL<br>6. INSPECTION OF STEEL FRAME<br>JOINT DETAILS FOR COMPLIANCE |       | Х             |                |                       |                       |
| 1. MATERIAL VERIFICATION OF<br>HIGH-STRENGTH BOLTS, NUTS,          |        |       |                                       |                  | WITH APPROVED CONSTUCTION<br>DOCUMENTS:                               |       |               |                |                       |                       |
| AND WASHERS:<br>A. IDENTIFICATION MARKINGS                         |        | Х     | APPLICABLE ASTM                       |                  | A. DETAILS SUCH AS<br>BRACING AND STIFFENING                          |       | Х             | -              |                       | 1704.3.2              |
| TO CONFORM TO ASTM<br>STANDARDS SPECIFIED IN THE                   |        |       | MATERIAL<br>SPECIFICATIONS; AISC      |                  | B. MEMBER LOCATIONS   |       | Х             |                |                       |                       |
| APPROVED CONSTRUCTION  |        |       | 360, SECTION A3.3                     |                  | C. APPLICATION OF JOINT<br>DETAILS AT EACH                            |       | Х             |                |                       |                       |
| DOCUMENTS<br>B. MANUFACTURER'S                                     |        | Х     |                                       |                  | CONNECTION  |       |               |                |                       |                       |
| CERTIFICATE OF COMPLIANCE<br>REQUIRED                              |        |       |                                       |                  |   |       |               |                |                       |                       |
| 2. INSPECTION OF HIGH-<br>STRENGTH BOLTING                         |        |       |                                       |                  | REQUIRED VERIFICATION AND<br>INSPECTION OF CONCRETE                   | INOUS | PERI-<br>ODIC | REFERENCE      | D STANDARD            | IBC<br>SECTION        |
| A. SNUG TIGHT JOINTS   |        | Х     |                                       |                  | <b>CONSTRUCTION (TABLE 1704.4)</b><br>1. INSPECTION OF REINFORCING    |       | Х             | ACI 318: 3     | 3.5, 7.1-7.7          | 1913.4                |
| B. SLIP-CRITICAL<br>CONNECTIONS WITH                               | Х      | Х     |                                       |                  | STEEL AND PLACEMENT 2. INSPECTION OF REINFORCING                      |       |               | AWS            | 6 D1.4                |                       |
| MATCHMARKING, TWIST OFF  |        |       |                                       |                  | STEEL WELDING IN ACCORDANCE<br>WITH TABLE 1704.3, ITEM 5B             |       |               | ACI 31         | 8: 3.5.2              |                       |
| BOLT OR DIRECT TENSION   |        |       | AISC 360, SECTION M2.5                | 1704.3.3         | 3. INSPECT BOLTS TO BE<br>INSTALLED IN CONCRETE PRIOR                 | Х     |               | ACI 318: 8     | 3.13, 21.2.8          | 1911.5,<br>1912.1     |
| C. SLIP-CRITICAL<br>CONNECTIONS WITHOUT                            | Х      |       |                                       |                  | TO AND DURING PLACEMENT OF  |       |               |                |                       | 1912.1                |
| MATCHMARKING OR<br>CALIBRATED WRENCH                               |        |       |                                       |                  | CONCRETE WHERE ALLOWABLE<br>LOADS HAVE BEEN INCREASED                 |       |               |                |                       |                       |
| METHODS<br>3. MATERIAL VERIFICATION OF<br>STRUCTURAL STEEL         |        |       |                                       |                  | 4. INSPECTION OF ANCHORS<br>INSTALLED IN HARDENED<br>CONCRETE         |       | Х             | ACI 318;3.8.6  | 8, 8.1.3, 21.2.8      | 1912.1                |
| A. IDENTIFICATION MARKINGS<br>TO CONFORM TO AISC 360               |        | Х     | AISC 360, SECTION M5.5                |                  | 5. VERIFYING USE OF REQUIRED<br>DESIGN MIX                            |       | Х             | ACI 318: C     | H. 4, 5.2-5.4         | 1904.3,<br>1913.2,    |
| B. FOR OTHER STEEL   |        | Х     | APPLICABLE ASTM<br>MATERIAL STANDARDS |                  | 6. AT THE TIME FRESH CONRETE  | Х     |               | ASTⅣ           | 1 C 172               | 1913.3<br>1913.1      |
| TO CONFORM TO ASTM   |        |       |                                       |                  | IS SAMPLED TO FABRICATE<br>SPECIFIMENS FOR STRENGTH                   |       |               |                | ∕I C 31<br>∷ 5.6, 5.8 |                       |
| STANDARDS SPECIFIED IN THE<br>APPROVED CONSTRUCTION                |        |       |                                       |                  | TESTS, PERFORM SLUMP AND AIR  |       |               |                | . 0.0, 0.0            |                       |
| DOCUMENTS<br>C. MANUFACTURER'S                                     |        | х     |                                       |                  | CONTENT TESTS, AND DETERMINE<br>THE TEMPERATURE OF THE<br>CONCRETE    |       |               |                |                       |                       |
| CERTIFIED MILL TEST REPORTS<br>4. MATERIAL VERFICATION OF          |        |       |                                       |                  | 7. INSPECTION OF CONCRETE<br>PLACEMENT FOR PROPER                     | Х     |               | ACI 318:       | 5.9, 5.10             | 1913.6,<br>1913.7,    |
| WELD FILLER MATERIALS<br>A. IDENTIFICATION MARKINGS                |        | Х     | AISC 360, SECTION A3.5                |                  | APPLICATION TECHNIQUES  |       |               |                |                       | 1913.8                |
| TO CONFORM TO AWS  |        | Λ     | AND APPLICABLE AWS A5                 | _                | 8. INSPECTION FOR<br>MAINTENANCE OF SPECIFIED                         |       | Х             | ACI 318:       | 5.11-5.13             | 1913.9                |
| SPECIFICATION IN THE<br>APPROVED CONSTRUCTION<br>DOCUMENTS         |        |       | DOCUMENTS                             |                  | CURING TEMPERATURE AND<br>TECHNIQUES<br>9. INSPECT FORMWORK FOR       |       | Х             | ACI 31         | 8: 6.1.1              |                       |
| MANUFACTURER'S<br>CERTIFICATE OF COMPLIANCE                        |        | Х     |                                       |                  | SHAPE, LOCATION AND<br>DIMENSIONS OF THE CONCRETE                     |       |               |                |                       |                       |
| REQUIRED   |        |       |                                       |                  | MEMBER BEING FORMED   |       |               |                |                       |                       |
| 5. INSPECTION OF WELDING<br>A. STRUCTURAL STEEL AND                |        |       |                                       |                  |   | FREG  | QUENCY        | REF            | ERENCE CRIT           | ERIA                  |
| COLD FORMED STEEL DECK<br>1) COMPLETE AND                          | Х      |       |                                       |                  | LEVEL 1 SPECIAL INSPECTION<br>(TABLE 1704.5.1)                        | CONT- | PERI-<br>ODIC | OBC<br>SECTION | ACI 530/<br>ASCE 5/   | ACI 530.1/<br>ASCE 6/ |
| PARTIAL PENETRATION  | ^      |       |                                       |                  | INSPECTION TASK   |       |               |                | TMS 402               | TMS 602               |
| GROOVE WELDS<br>2) MULTIPASS FILLET                                | Х      |       |                                       |                  | 1. AS MASONRY CONSTRUCTION<br>BEGINS, THE FOLLOWING SHALL             |       |               |                |                       |                       |
| WELDS<br>3) SINGLE-PASS FILLET                                     | х      |       | AWS D1.1                              | 1704.3.1         | BE VERIFIED TO ENSURE<br>COMPLIANCE:                                  |       |               |                |                       |                       |
| WELDS < 5/16"<br>4) PLUG AND SLOT WELDS                            | X      |       |                                       |                  | A. PROPORTIONS OF SITE-<br>PREPARED MORTAR                            |       | Х             |                |                       | ART. 2.6a             |
| ,<br>,   |        |       |                                       |                  | B. CONSTRUCTION OF<br>MORTAR JOINTS                                   |       | Х             |                |                       | ART. 3.3B             |
| 5) SINGLE-PASS FILLET<br>WELDS < 5/16"                             |        | Х     |                                       |                  | C. LOCATION OF  |       | Х             |                |                       | ART. 3.4,             |
| 5) FLOOR AND ROOF<br>DECK WELDS                                    |        | Х     | AWS D1.3                              |                  | REINFORCEMENT,<br>CONNECTORS AND                                      |       |               |                |                       | 3.6A                  |
| <ul><li>B. REINFORCING STEEL:</li><li>1) VERIFICATION OF</li></ul> |        | х     |                                       |                  | ANCHORAGES<br>2. THE INSPECTION PROGRAM                               |       |               |                |                       |                       |
| WELDABILITY OF   |        | Χ     |                                       |                  | SHALL VERIFY:<br>A. SIZE AND LOCATION OF                              |       | х             |                |                       | ART. 3.3F             |
| REINFORCING STEEL<br>OTHER THAN ASTM A 706                         |        |       |                                       |                  | STRUCTURAL ELEMENTS   |       |               |                |                       | 74111 <b>J.</b> JI    |
| 2) REINFORCING STEEL-<br>RESISTING FLEXURAL AND                    | Х      |       |                                       |                  | B. TYPE, SIZE AND LOCATION<br>OF ANCHORS, INCLUDING                   |       | Х             |                | SEC.<br>1.2.2(E),     |                       |
| AXIAL FORCES IN<br>INTERMEDIATE AND                                |        |       |                                       |                  | OTHER DETAILS OF<br>ANCHORAGE OF MASONRY TO                           |       |               |                | 1.16.1                |                       |
| SPECIAL MOMENT   |        |       | AWS D1.4<br>ACI 318: 3.5.2            | —                | STRUCTURAL MEMBERS,<br>FRAMES OR OTHER                                |       |               |                |                       |                       |
| FRAMES, AND BOUNDARY<br>ELEMENTS OF SPECIAL                        |        |       |                                       |                  | CONSTRUCTION  |       |               |                |                       |                       |
| REINFORCED CONCRETE<br>SHEAR WALLS AND SHEAR                       |        |       |                                       |                  | C. SPECIFIED SIZE, GRADE<br>AND TYPE OF                               |       | Х             | _              | SEC. 1.15             | ART. 2.4, 3.4         |
| REINFORCEMENT  |        |       |                                       |                  | REINFORCEMENT   |       |               |                |                       |                       |

| 3) SHEAR                | Х |   |              |
|-------------------------|---|---|--------------|
| REINFORCEMENT           |   |   |              |
| 4) OTHER REINFORCING    |   | Х |              |
| STEEL                   |   |   |              |
| SPECTION OF STEEL FRAME |   | Х |              |
| DETAILS FOR COMPLIANCE  |   |   |              |
| APPROVED CONSTUCTION    |   |   |              |
| JMENTS:                 |   |   |              |
| . DETAILS SUCH AS       |   | Х | 1704.3.2     |
| RACING AND STIFFENING   |   |   | <br>1704.3.2 |
| . MEMBER LOCATIONS      |   | Х |              |
| . APPLICATION OF JOINT  |   | Х |              |
| ETAILS AT EACH          |   |   |              |
|                         |   |   |              |

| D. WELDING OF REINFORCING<br>BARS  | Х                       |
|--|-------------------------|
| E. PROTECTION OF MASONRY<br>DURING COLD WEATHER<br>(TEMPERATURE BELOW 40<br>DEG F) OR HOT WEATHER<br>(TEMPERATURE ABOVE 90<br>DEG F)   |                         |
| 3. PRIOR TO GROUTING, THE<br>FOLLOWING SHALL BE VERIFIED<br>TO ENSURE COMPLIANCE:  |                         |
| A. GROUT SPACE IS CLEAN<br>B. PLACEMENT OF<br>REINFORCEMENT AND<br>CONNECTORS  |                         |
| C. PROPORTIONS OF SITE-<br>PREPARED GROUT  |                         |
| D. CONSTRUCTION OF<br>MORTAR JOINTS  |                         |
| 4. GROUT PLACEMENT SHALL BE<br>VERIFIED TO ENSURE  | Х                       |
| COMPLIANCE WITH CODE AND<br>CONSTRUCTION DOCUMENT<br>PROVISIONS  |                         |
| 5. PREPARATION OF ANY<br>REQUIRED GROUT SPECIMENS,<br>MORTAR SPECIMENS AND/OR<br>PRISMS SHALL BE OBSERVED  |                         |
| 6. COMPLIANCE WITH REQUIRED<br>INSPECTION PROVISIONS OF THE<br>CONSTRUCTION DOCUMENTS AND  |                         |
| THE APPROVED SUBMITTALS<br>SHALL BE VERIFIED   |                         |
| SHALL BE VERIFIED<br>REQUIRED VERIFICATION AND<br>INSPECTION OF SOILS (TABLE   | FREQU<br>CONT-<br>INOUS |
| SHALL BE VERIFIED  | CONT-                   |
| <ul> <li>SHALL BE VERIFIED</li> <li>REQUIRED VERIFICATION AND<br/>INSPECTION OF SOILS (TABLE<br/>1704.7)</li> <li>VERIFICATION AND INSPECTION</li> <li>1. VERIFY MATERIALS BELOW<br/>FOOTINGS ARE ADEQUATE TO<br/>ACHIEVE THE DESIGN BEARING<br/>CAPACITY</li> <li>2. VERIFY EXCAVATIONS ARE<br/>EXTENDED TO PROPER DEPTH<br/>AND HAVE REACHED PROPER</li> </ul>   | CONT-                   |
| <ul> <li>SHALL BE VERIFIED</li> <li>REQUIRED VERIFICATION AND<br/>INSPECTION OF SOILS (TABLE<br/>1704.7)</li> <li>VERIFICATION AND INSPECTION</li> <li>1. VERIFY MATERIALS BELOW<br/>FOOTINGS ARE ADEQUATE TO<br/>ACHIEVE THE DESIGN BEARING<br/>CAPACITY</li> <li>2. VERIFY EXCAVATIONS ARE<br/>EXTENDED TO PROPER DEPTH<br/>AND HAVE REACHED PROPER<br/>MATERIAL</li> <li>3. PERFORM CLASSIFICATION<br/>AND TESTING OF COMPACTED FILL</li> </ul>   | CONT-                   |
| <ul> <li>SHALL BE VERIFIED</li> <li>REQUIRED VERIFICATION AND<br/>INSPECTION OF SOILS (TABLE<br/>1704.7)</li> <li>VERIFICATION AND INSPECTION</li> <li>1. VERIFY MATERIALS BELOW<br/>FOOTINGS ARE ADEQUATE TO<br/>ACHIEVE THE DESIGN BEARING<br/>CAPACITY</li> <li>2. VERIFY EXCAVATIONS ARE<br/>EXTENDED TO PROPER DEPTH<br/>AND HAVE REACHED PROPER<br/>MATERIAL</li> <li>3. PERFORM CLASSIFICATION<br/>AND TESTING OF COMPACTED FILL<br/>MATERIALS</li> <li>4. VERIFY USE OF PROPER<br/>MATERIALS, DENSITIES AND LIFT<br/>THICKNESSES DURING</li> </ul> | CONT-                   |
| <ul> <li>SHALL BE VERIFIED</li> <li>REQUIRED VERIFICATION AND<br/>INSPECTION OF SOILS (TABLE<br/>1704.7)</li> <li>VERIFICATION AND INSPECTION</li> <li>1. VERIFY MATERIALS BELOW</li> <li>FOOTINGS ARE ADEQUATE TO<br/>ACHIEVE THE DESIGN BEARING<br/>CAPACITY</li> <li>2. VERIFY EXCAVATIONS ARE<br/>EXTENDED TO PROPER DEPTH<br/>AND HAVE REACHED PROPER<br/>MATERIAL</li> <li>3. PERFORM CLASSIFICATION<br/>AND TESTING OF COMPACTED FILL<br/>MATERIALS</li> <li>4. VERIFY USE OF PROPER<br/>MATERIALS, DENSITIES AND LIFT</li> </ul>                   | CONT-INOUS              |

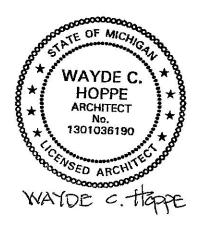
# **VERIFY ALL DIMENSIONS IN FIELD**

| <br>X  | <br>SEC.<br>2104.3,<br>2104.4 | SEC.<br>2.1.9.7.2,<br>3.3.3.4(B)<br> | ––<br>ART. 1.8C,<br>1.8D |
|--------|-------------------------------|--------------------------------------|--------------------------|
| X<br>X |                               | <br>SEC. 1.13                        | ART. 3.2D<br>ART 3.4     |
| Х      |                               |                                      | ART. 2.6B                |
| Х      |                               |                                      | ART . 3.3B               |
|        |                               |                                      | ART 3.5                  |
|        | SEC.<br>2105.2.2,<br>2105.3   |                                      | ART. 1.4                 |
| Х      |                               |                                      | ART. 1.5                 |

#### QUENCY PERI-ODIC

- Х
- Х Х
- \_\_\_\_
- Х

S VETERINARY HOSPITAL INTERIOR RENOVATION 500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111 FRIENDS ANIMAL



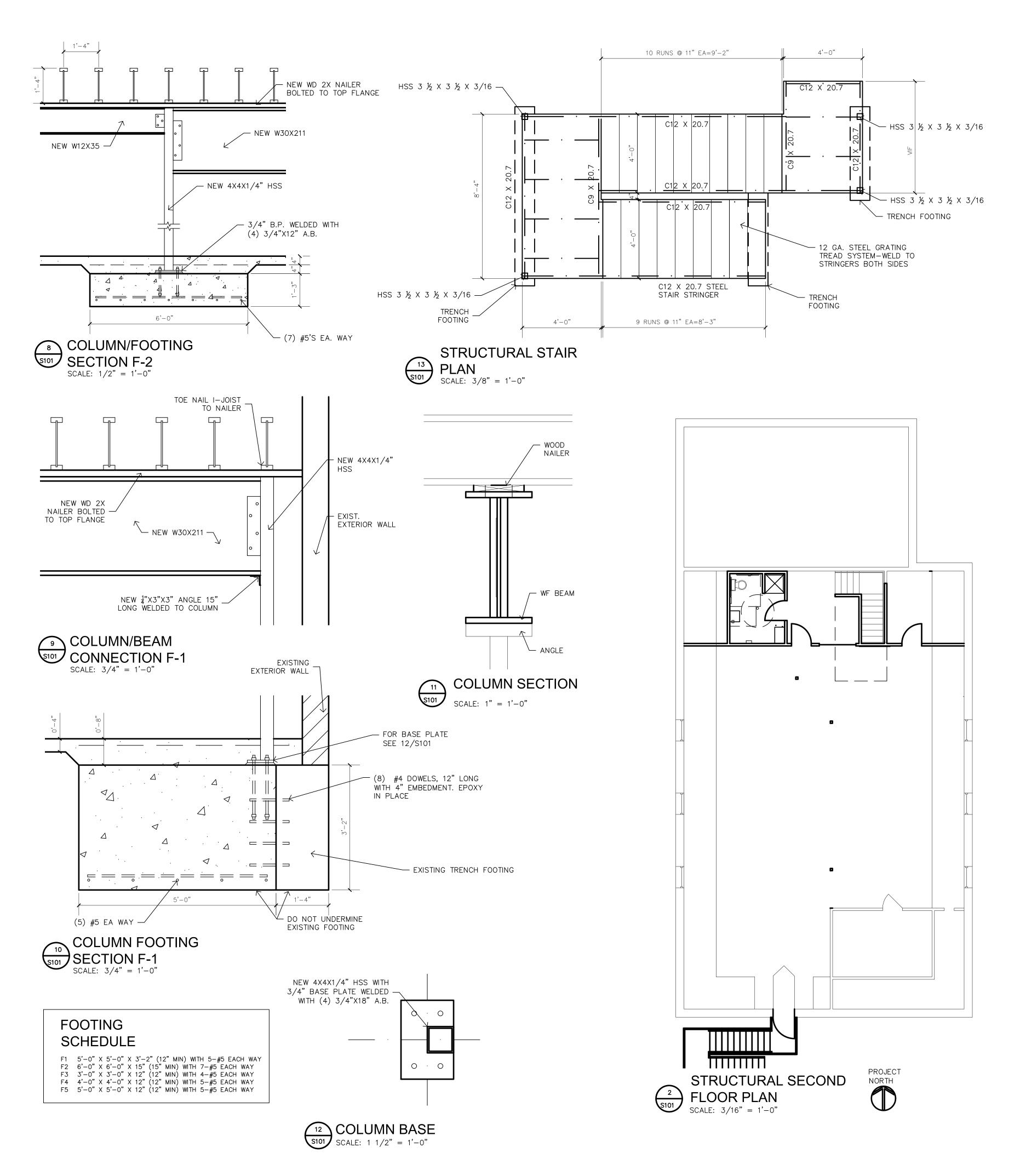


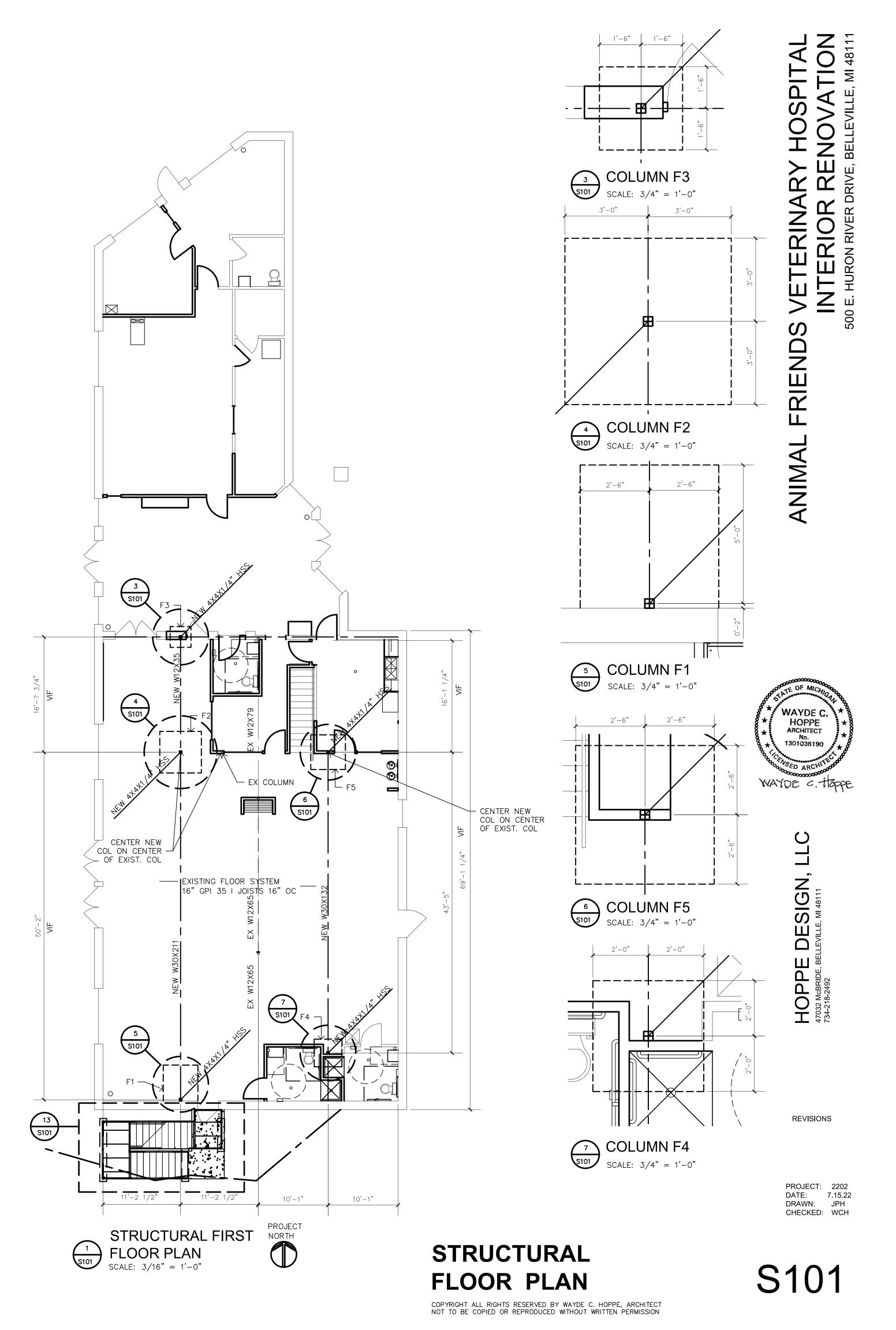
REVISIONS

PROJECT: 2202 DATE: 7.15.22 DRAWN: JPH CHECKED: WCH

S002

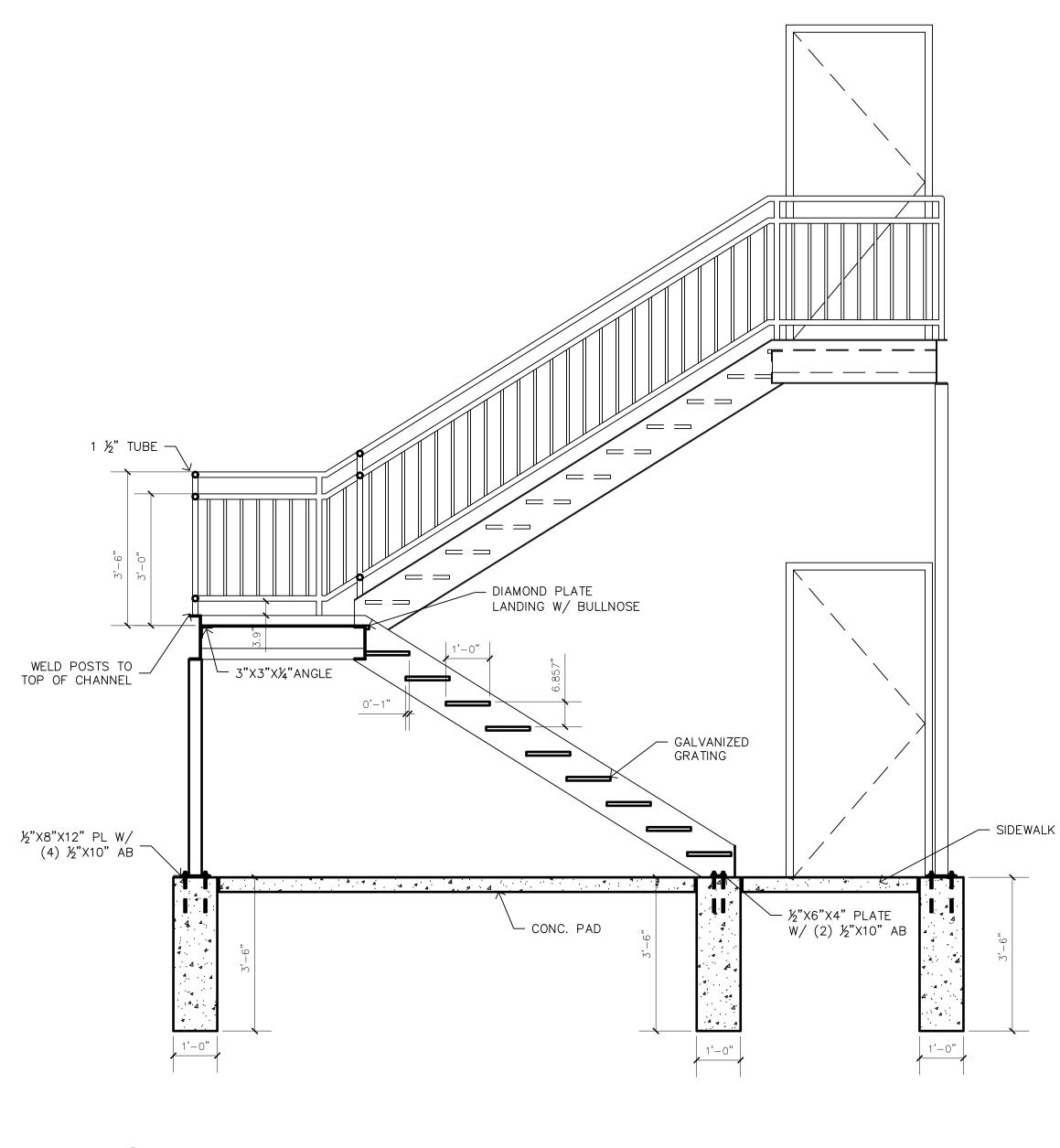
## **SPECIAL INSPECTIONS**





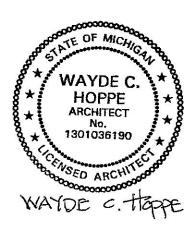
|   | MANUFACTURER              | MODEL                               | STYLE               | FINISH               | COLOR                 | POWER             | STANDARDS/<br>RESPONSIBILITY                                   | COMMENT S   | CUDMITTAL |
|---|---------------------------|-------------------------------------|---------------------|----------------------|-----------------------|-------------------|--|---|-----------|
|   | :                         | 1                                   |                     | DIVISK               | ON 6                  | :                 | i i i i i i i i i i i i i i i i i i i                          | 1   |           |
| WOOD BASE   |                           |                                     |                     | CUSTOM               |                       | N/A               | AWI/ AM  | BIRCH AT STAIN LOCATIONS,<br>POPLAR AT PAINTED LOCATIONS:<br>FINISH TO BE EITHER CONVERSION<br>VARNISH OR POST-CATALIZED<br>LACQUER   |           |
| CABINET HARDWARE                                      | KNAPE AND VOGT            |                                     |                     |                      |                       |                   |  | STEEL SLIDES, BALL BEARING<br>NYLON ROLLERS WITH 100 LB LOAD  |           |
| CLOSET ROD/SHELF<br>TREPLACE: MANTLE                  | CLOSETMAID<br>SEE DRAWING | MAPLE                               |                     | FACTORY              |                       | N/A<br>N/A        |  | FINISH TO BE EITHER CONVERSION<br>VARNISH OR POST-CATALIZED<br>LACQUER  |           |
| IREPLACE:<br>SURROUND                                 | ASHLAR FLAG STONE<br>TILE | NY<br>BLUESTONE                     |                     | •                    |                       | N/A               |  |   |           |
| FIREPLACE: HEARTH                                     | ASHLAR FLAG STONE         | SELECT<br>NY<br>BLUESTONE<br>SELECT | 1"<br>THICKNES<br>S |                      |                       | N/A               |  | SINGLE SLAB CUIT TO SHAPE   |           |
|   |                           | SELECT                              | <u>э</u>            | DIVISK               | ON 7                  |                   |  |   |           |
|   |                           |                                     |                     |                      |                       |                   |  |   | t         |
| IN SULATION,<br>FIBERGLASS, WALL                      | OWENS CORNING             |                                     | R-21                | N/A                  | N/A                   | N/A               | HH-I-S21; ASTM<br>C665; FLAME<br>SPREAD OF 25 MAX;<br>ASTN E84 |   |           |
| INSULATION,<br>FIBERGLASS, SOUND<br>ATTENUATION       | USG                       | THERMAFIBE<br>R                     | 3' MIN              | N/A                  | N/A                   | N/A               | HH-I-521E; ASTM<br>C665; FLAME<br>SPREAD OF 25 MAX;            |   |           |
| INSULATION,<br>FIBERGLASS, CEILING                    | OWENS CORNING             |                                     | R-38                | N/A                  | N/A                   | N/A               |  | PROVIDE STYROFOAM VENT<br>BAFFLES   |           |
| NSULATION, RIGID,<br>PERIMETER                        | STYROFOAM                 |                                     | 2" RIGID X<br>24"   | N/A                  | N/A                   | N/A               |  |   |           |
| SEALANT, EXTERIOR                                     | THIOKAL CHEMICAL          | POLYSULFID                          |                     |                      |                       | N/A               | TT-C 598<br>USIAA116.1 CLASS                                   | 1 PART POLYMERIZED RUBBER<br>COMPOUND<br>TWO COMPONENT POLYSULFIDE W/   |           |
| EALANT, EXTERIOR                                      |                           | E                                   | LATEX               |                      |                       | N/A               | B; TT-S227B  | BACKER ROD: NON-SAGGING<br>100% LIQUID POLYMER: NON-  |           |
| ENT FLASHING  | CORP<br>AZTEC WASHER CO.  |                                     |                     | FACTORY              | and the second second | N/A               | NRCA   | SAGGIN <mark>G</mark><br>MATCH ROOF COLOR   |           |
|   |                           |                                     |                     |                      | SHINGLES              |                   |  |   |           |
|   | l                         |                                     | 1                   | DIVISIO              | N 10                  | 1                 |  |   |           |
| REPLACE   | SUPERIOR                  |                                     | BYOWNER             | BY OWNER             |                       |                   |  | OUTSIDE AIR KIT, SCREEN PANELS,<br>TWIN PANE CERAMIC GLASS DOORS,<br>FORCED AIR FAN KIT, GAS<br>SUPPLIES, REMOTE CONTROL,<br>DIRECT VENTZERO CLEARANCE<br>CHIMNEY; INSULATE CHIMNEY |           |
| FOILET PAPER DISP<br>PAPER TOWEL                      | BOBRICK                   | B2888<br>B-369                      |                     |                      |                       | N/A<br>N/A        |  | LOCATE IN ALL BATHROOMS   |           |
| DISPENSER/ DISPOSAL                                   |                           |                                     |                     |                      |                       |                   |  |   |           |
| SANITARY DISPOSAL<br>SOAP DISPENSER                   | BOBRICK<br>BOBRICK        | 270<br>2112                         |                     | *                    | · �                   | N/A<br>N/A        |  | ONE PER EACH STALL<br>ONE PER LAV   |           |
| HOWER SEAT  | BOBRICK                   | 5181                                |                     |                      | CHROME                | N/A               |  |   |           |
| TILT MIRROR<br>RAMED MIRROR<br>HANDRAIL HARDWARE      | BOBRICK<br>BOBRICK        | 293<br>290                          |                     |                      | CHROME                | N/A<br>N/A<br>N/A |  | 16" X 30" AT EACH BF RESTROOM<br>24" X 36"  |           |
| GRAB BARS   | BOBRICK                   | 6206.99X52                          |                     |                      | CHROME                | N/A               |  | PROVIDE 2 X6 WOOD BLOCKING<br>BEHIND GRAPBARS   |           |
| IREEXTINGUISHER                                       | J.L. INDUSTRIES           | 3A: 40B                             | 2 1/2 GAL           | N/A                  | N/A                   | N/A               |  |   |           |
|   | :                         |                                     | :                   | DIVISIO              | N 11                  |                   |  |   |           |
| DISHWASHER  |                           | BYOWNER                             | BYOWNER             | BY OWNER             | BYOWNER               |                   |  |   |           |
| MCROWAVE<br>REFRIGERATOR                              |                           | BYOWNER<br>BYOWNER                  | ÷                   | BY OWNER<br>BY OWNER | BYOWNER<br>BYOWNER    | 15A               |  | DEDICATED CIRCUIT<br>ICE MAKER, WATER DISPENSER,<br>WATER SUPPLY  |           |
| SAR BAGE DISPOSAL                                     | ISE                       | PRO 333                             | N/A.                | N/A                  | N/A                   | 1 HP,<br>120/1/80 |  |   |           |
|   | <u>!</u>                  |                                     |                     | DIVISIO              | N 12                  | !                 |  |   |           |
| CABINETS- BREAK                                       | MASTERPIECE               | BYOWNER                             | BY OWNER            | FACTORY              | BYOWNER               | N/A               | AWI 400/ KC <mark>MA; AMI</mark>                               | PROVIDE HARDWARE, DRAWERS,<br>DMDERS AND ADJUSTABLE<br>SHELVES : FULL OVERLAY   |           |
|   | MASTERPIECE               | 205 PULLS                           |                     | FACTORY              | SATIN CHROME          | N/A               |  |   |           |
| CABINET HARDWARE-<br>BREAK ROOM<br>CABINETS- BATHROOM | MASTERPIECE               | BYOWNER                             | BY OWNER            | FACTORY              | BYOWNER               | N/A               | AW1 400/ KC MA; AMI  | PROVIDE HARDWARE, DRAWERS,<br>DMDERS AND ADJUSTABLE   |           |
| BREAK ROOM<br>CABINETS- BATHROOM                      | MASTER PIECE              |                                     | BY OWNER            |                      |                       | N/A<br>N/A        | AW1 400/ KCMA; AMI   |   |           |

## **VERIFY ALL DIMENSIONS IN FIELD**



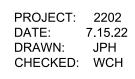




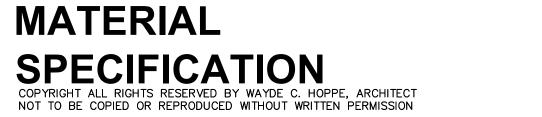




REVISIONS



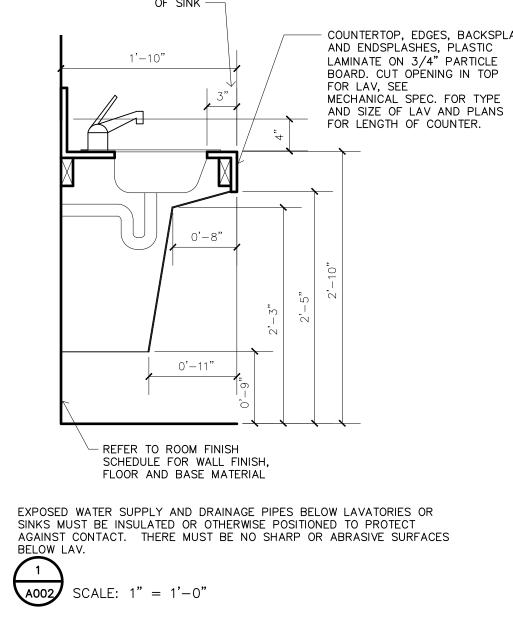


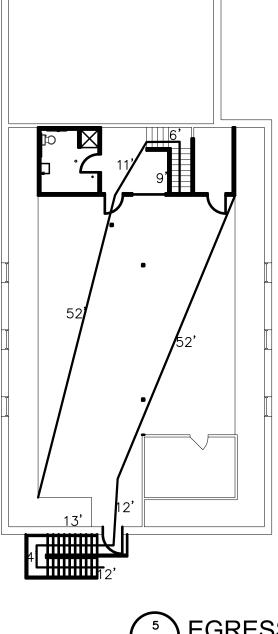


|                                  | APPLICABLE CODES   |  |  |
|----------------------------------|--|--|--|
|                                  | BUILDING   | 2015 MICHIGAN REHABILITATION CODE                                  |  |
|                                  |  | FOR EXISTING BUILDINGS   |  |
|                                  | ACCESSIBILITY  | 2009 ICC/ANSI A117.1 - ACCESSIBLE AND                              |  |
|                                  |  | USABLE BUILDINGS AND FACILITIES                                    |  |
|                                  | ENERGY CODE  | 2010 AMERICANS WITH DISABILITIES ACT                               |  |
|                                  | MECHANICAL   | ASHRAE 90.1 2013; IECC 2015<br>2015 INTERNATIONAL MECHANICAL CODE  |  |
|                                  | PLUMBING   | 2015 INTERNATIONAL PLUMBING CODE                                   |  |
|                                  | ELECTRICAL   | 2017 NFPA 70 NATIONAL ELE CTRICAL<br>CODE                          |  |
| SECTION #                        | CHAPTER 1  |  |  |
| 107.3. <mark>4</mark>            | REGISTERED DESIGN PROFESSIONAL IN<br>RESPONSIBLE CHARGE                                    |  | WAYDE HOPPE  |
| 107.3.4.1                        | THE FOLLOWING ITEMS ARE DEFERRED   |  |  |
|                                  | SUBMITTALS. DESIGN OF THESE ITEMS WILL<br>BE SUBMITTED AFTER THE AWARD OF                  |  |  |
|                                  | CONTRACT   |  |  |
| SECTION #                        | CHAPTER 3  |  |  |
| 304.1                            | USE AND OCCUPANCY CLASSIF<br>OCCUPANCY CLASSIFICATION                                      |  |  |
| 504.1                            | GROUP CLASSIFICATION   | GROUP B  |  |
|                                  | USE CLASSIFICATION   | PROFESSIONAL SERVICES  | VETERINA RIAN SERVICES   |
| 304. <mark>1</mark>              |  | BUSINESS<br>GROUP B  |  |
|                                  | GROUP CLASSIFICATION<br>USE CLASSIFICATION   | TRAINING AND SKILL DEVELOPMENT                                     | DANCE STUDIO   |
| SECTION #                        | CHAPTER 5  | REQUIRED   | PROVIDED   |
|                                  | BUILDING AREA  |  |  |
|                                  | TYPE IIIB CONSTRUCTION TYPE  | TABULAR ALLOWABLE AREA PER FLR                                     |  |
| TABLE 506.2                      | BASIC TABULAR AREA FOR USE GROUP B<br>WITHOUT SPRINKLER SYSTEM (NS)                        | 19,000 SF  | 5,100 SF FIRST FLOOR: 2018 SF<br>SECOND FLOOR: ALL FLOORS < 19,000   |
|                                  | nondene skanster i njevr - na konservanjevru i 1955. U tel se vijet se osobolje Martina Ko |  | SF   |
| SECTION #                        | CHAPTER 6  | REQUIRED   | PROVIDED   |
|                                  | BUILDING CONSTRUCTION TYP<br>CONSTRUCTION TYPE   | E<br>IIIB  | IIB  |
| TABLE 601                        | FIRE RESISTANCE RATINGS  |  |  |
| TABLE 601<br>TABLE 601           | STRUCTURAL FRAME<br>EXTERIOR BEARING WALLS   | 0 HOURS<br>2 HOURS   | 0 HOURS<br>2 HOURS   |
| TABLE 601                        | INTERIOR BEARING WALLS   | 0 HOURS  | 0 HOURS  |
| TABLE 601<br>TABLE 601           | EXTERIOR NON-BEARING WALLS/PARTITIONS  | 0 HOURS<br>0 HOURS   | 0 HOURS<br>0 HOURS   |
| TABLE 601                        | FLOOR CONSTRUCTION   | 0 HOURS  | 0 HOURS  |
| TABLE 601<br>TABLE 602           | ROOF CONSTRUCTION<br>EXTERIOR WALL FIRE RATING   | 0 HOURS<br>0 HOURS   | 0 HOURS<br>0 HOURS   |
| SECTION #                        | CHAPTER 7  | REQUIRED   | PROVIDED   |
| SECTION #                        | FIRE AND SMOKE PROTECTION  |  | PROVIDED   |
|                                  | FIRE-RESISTANCE RATED CONSTRUCTION   |  |  |
| SECTION 705.8.1                  | EXTERIOR WALL OPENINGS   |  | UNLIMITED PER EXCEPTION 1  |
| EXCEPTION 2<br>TABLE 706.4       | FIRE WALL RATING   |  | NOT APPLICABLE   |
| TABLE 707.3.10                   | FIRE BARRIER RATING  |  | NOT A PPLICABLE  |
| SECTION 707.3.1<br>SECTION 708   | SHAFT ENCLOSURES<br>FIRE PARTITIONS  |  | NOT APPLICABLE   |
| SECTION 709                      | SMOKE BARRIERS   |  | NOT A PPLICABLE  |
| SECTION 710                      | SMOKE PARTITIONS   | DEGUNDED   | NOT A PPLICABLE  |
| SECTION #                        | INTERIOR FINISHES  | REQUIRED   | PROVIDED   |
|                                  | OCCUPANCY  | B BUSINESS   | B BUSINESS   |
|                                  |  | CLASS A (0-25 FLAME SPREAD INDEX: 0-                               |  |
|                                  | EXIT ENCLOSURES/ PASSAGEWAYS   | 450 SM OKE DEVELOPED INDEX)  | 0-450 SMOKE DEVELOPED INDEX)   |
|                                  | CORRIDORS  | CLASS B (25-75 FLAME SPREAD INDEX:<br>.450 SMOKE DEV ELOPED INDEX) | CLASS B (25-75 FLAME SPREAD<br>INDEX: .450 SMOKE DEVELOPED           |
|                                  | ROOM S AND ENCLOSED SPACES   | CLASS C (76-200 FLAME SPREAD INDEX:                                | CLASS C (76-200 FLAME SPREAD   |
| SECTION #                        | CHAPTER 9  | .450 SMOKE DEVELOPED INDEX)<br>REQUIRED                            | INDEX: .450 SMOKE DEVELOPED<br>PROVIDED                              |
| SECTION #                        | FIRE PROTECTION SYSTEMS  | REQUIRED   | PROVIDED   |
|                                  | GROUP B BUSINESS   | NON REQUIRED   | NONE PROVIDED  |
| SEC TION 907.2.1                 | FIRE ALARM AND DETECTION SYSTEM  | NOT REQUIRED   | NOT PROVIDED   |
| SECTION 906.1                    | FIRE EXTINGUISHERS   | REQUIRED   | PROVIDED   |
| SECTION #                        | OCCUPANT LOAD  | REQUIRED   | PROVIDED   |
|                                  | EXISTING BUILDING AREA FIRST FLOOR   |  |  |
| TABLE 1004.1.1                   | BUSINESS<br>EXERCISE   | 100 (GROSS)<br>50 (GROSS)  | 679 / 100 = 7<br>2243 / 50 = 45                                      |
| TABLE 1004.1.1                   | UNCONCENTRATED (TABLES AND CHAIRS)   | 15 (NET)   | 1206 / 15 = 81   |
| TABLE 1004.1.1                   | MECHANICAL/ ACCESSORY STORAGE<br>TOTAL FIRST FLOOR   | 300 (GROSS)  | 283/ 300 = 1<br>135  |
|                                  | EXISTING BUILDING AREA SECOND FLOOR  |  |  |
| TABLE 1004.1.1<br>TABLE 1004.1.1 | EXERCISE<br>MECHANICAL/ ACCESSORY STORAGE  | 50 (GROSS) SECOND FLOOR<br>300 (GROSS)                             | 1598 / 50 = 32<br>598 / 300 = 2                                      |
|                                  | TOTAL SECOND FLOOR   |  | 34   |
|                                  | MEANS OF EGRESS  |  |  |
|                                  | B BUSINESS   |  |  |
|                                  | STAIRWAYS<br>OTHER EGRESS COMPONENTS: .2"/PERSON   | NA<br>165 PEOPLE X.2"/PERSON = 33 INCHES                           | N/A<br>108 INCHES  |
| ABLE 1017.2                      | TRAVEL DISTANCE B NON SPRINKLED  | 200'   | 107 FIRST FLOOR: 92 SECOND FLOOR                                     |
| SECTION 1020.2<br>TABLE 1020.1   | CORRIDOR WIDTH<br>CORRIDOR RATING B NON SPRINKLED  | 44 INCHES (MIN.)<br>1 HOUR   | NOT A PPLICABLE<br>NOT A PPLICABLE                                   |
| TABLE 1006.2.1                   | SPACES WITH ONE EXIT EGRESS (SECOND  | MAX OCC LOAD = 49: OCC LOAD < OR                                   | SECOND FLOOR OCC LOAD = 34:  |
|                                  | FLOOR)   | EQUAL TO 30 THEN TRAVEL DISTANCE =<br>100' MAX                     | TRAVEL DISTANCE IS 92': TWO EXIT<br>ACCESS REQUIRED                  |
| ABLE 1006.3.1                    | NUMBER OF EXITS  | 1 MIN  | 3 PROVIDED   |
| SECTION #                        | CHAPTER 11   | REQUIRED   | PROVIDED   |
| SECTION 1104.4<br>EXCEPTION 1    | ACCESSIBILITY<br>AN ACCESSIBLE ROUTE IS NOT REQUIRED TO<br>STORIES < 3000 SF               | NO ELEVATOR REQUIRED   | NO ELEVATOR PROVIDED   |
| SECTION #                        | MICHIGAN PLUMBING CODE   | REQUIRED   | PROVIDED   |
|                                  | B BUSINESS   |  |  |
|                                  | WATER CLOSETS  | 1:25 FOR FIRST 50, THEN 1:50 FOR THE<br>REMAINDER                  | 50/25 = 2: 135-50 = 85: 85/50 = 2: 2 + 2 = 3<br>REQUIRED: 4 PROVIDED |
|                                  |  | 1:40 FOR FIRST 50, THEN 1:80 FOR                                   | 50/40 = 2: 135-50=85: 85/80 = 2: 2 + 2 = 4                           |
|                                  | LAVATORIES   | REMAINDER  | REQUIRED: 4 PROVIDED.  |
|                                  | DRINKING FOUNTAIN  | 1/100  | 165/100 = 2 REQUIRED: 2 PROVIDED                                     |

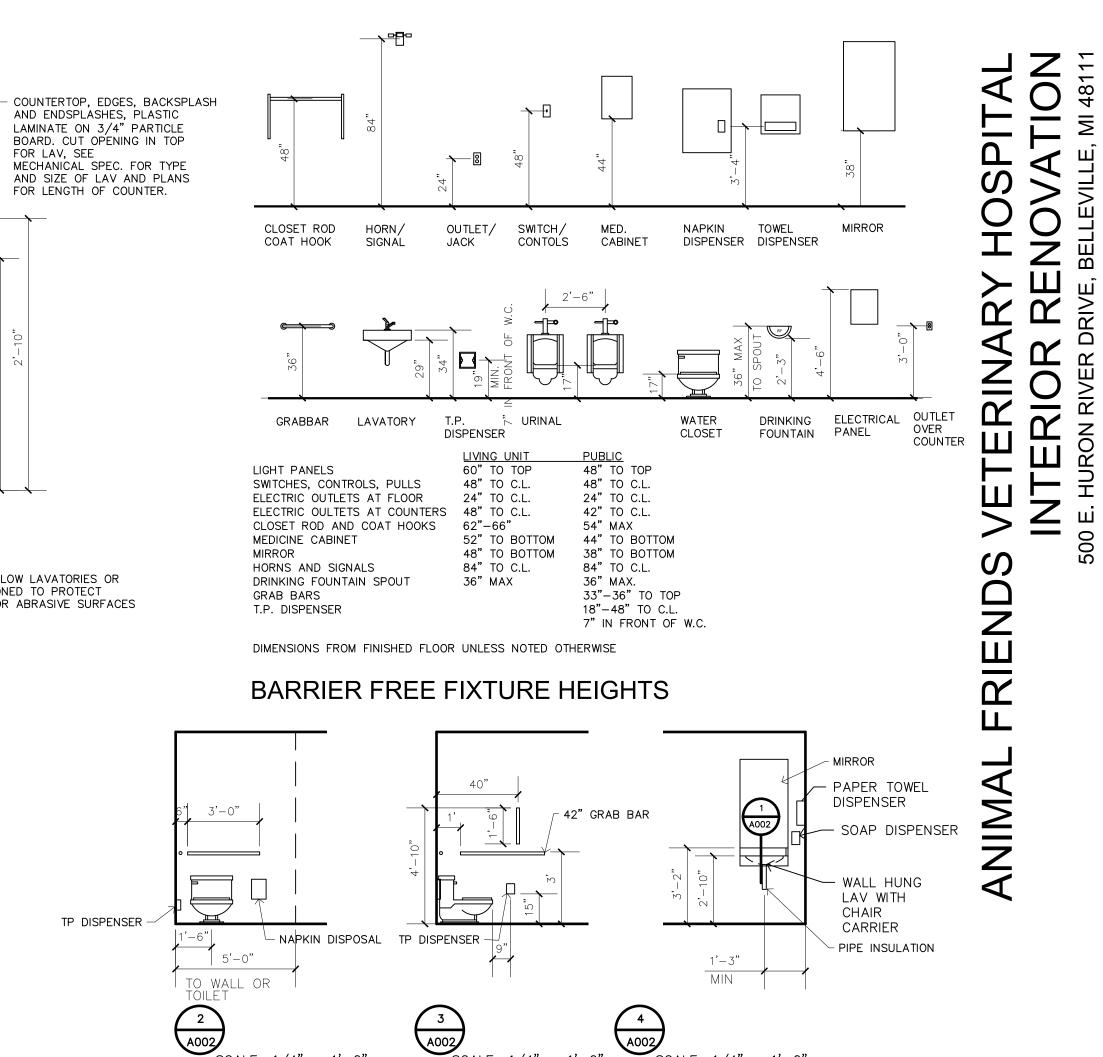
|                             | MICHIGAN REHABILITATION<br>CODE FOR EXISTING  |              |   |
|-----------------------------|---|--------------|---|
| SECTION #                   | BUILDINGS   | REQUIRED     | PROVIDED  |
| SECTION #                   | CHAPTER 4   | REQUIRED     | PROVIDED  |
|                             | WORK AREA METHOD  |              |   |
| 403                         | ALTERATIONS SHALL COM PLY WITH THE MBC  |              | SEE MBC REVIEW ABOVE  |
| 410.1                       | WHEN THERE IS A CHANGE IN USE GROUP OR<br>OCCUPANCY LOAD THEN CHANGES MUST BE<br>ACCESSIBLE                                   |              |   |
| SECTION #                   | CHAPTER 7   | REQUIRED     | PROVIDED  |
|                             | ALTERATIONS LEVEL 1   |              |   |
| SECTION #                   | CHAPTER 8   | REQUIRED     | PROVIDED  |
|                             | ALTERATIONS LEVEL 2   |              | ALTERATION IS LESS THAN 50% OF THE<br>BUILDING AREA (1894/5100 = 37%) |
| 803.2.1                     | OPENING ENCLOSURE EXCEPTIONS  |              |   |
|                             | 1. WHERE NO ENCLOSURE OF VERTICAL   |              |   |
|                             | OPENINGS IS REQUIRED BY THE MBC   |              |   |
|                             | 4. A 30 MIN ENCLOSURE IS TO BE PROVIDED   |              |   |
|                             | TO PROTECT ALL VERTICAL OPENINGS LESS   |              |   |
| -<br>Tellor follolor orange | THAN OR EQUAL TO THREE STORIES  |              |   |
| 803.4                       | MEET THE INTERIOR FINISH REQUIREMENTS<br>OF THE MBC   |              | PROVIDED  |
| 803.5                       | GUARDS TO BE PROVIDED PER THE MBC   |              |   |
| 804.4                       | FIRE ALARM  | NOT REQUIRED | NOT PROVIDED  |
| 805.3                       | THE NUMBER OF EXITS IS TO BE DETERMINED<br>BY THE OCCUPANT LOAD PER THE MBC   |              | PROVIDED  |
| 805.4.4                     | IF OCCUPANT LOAD IS GREATER THAN 100 OR<br>WHERE WORK AREA IS GREATER THAN 50%<br>OF THE FLOOR AREA PROVIDE PANIC<br>HARDWARE |              |   |
| 805.6                       | DEAD ENDS LIMITED TO 35   |              | NONE PROVIDED   |
| 805.8                       | EXIT SIGNS  |              | PROVIDED  |
| 805.9                       | HANDRAILS   |              | PROVIDED  |
| 805.11                      | GUARDS PER THE MBC  |              | PROVIDED  |
| 806.1                       | COMPLY WITH ACCESSIBILITY OF 410  |              |   |
| 410.3                       | ACCESSIBLITY GREATER THAN WHAT IS<br>REQUIRED FOR NEW CONSTRUCTION IS NOT<br>REQUIRED   |              | NO ELEVATOR PROVIDED  |
| 410.6, EXCEPTION            | ACCESSIBLE MEANS OF EGRESS NOT  |              |   |
| 2                           | REQUIRED IN AN EXISTING BUILDING  |              |   |

3" MAX MEASURED FROM FRONT OF COUNTER TO DROP-OFF POINT OF SINK -----



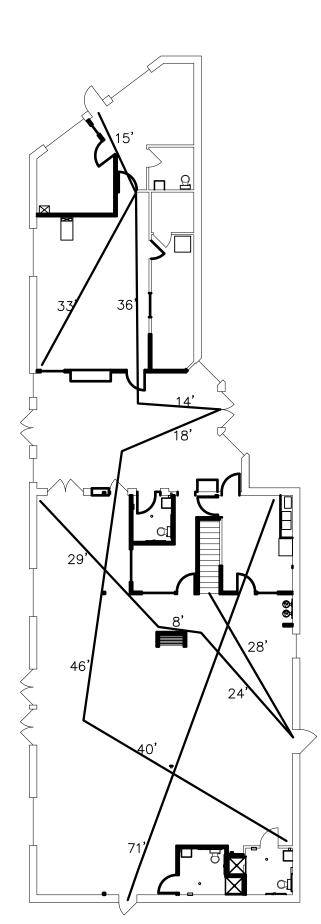


TOTAL AREA FIRST FLOOR 5100 SF SECOND FLOOR 2018 SF



A002

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



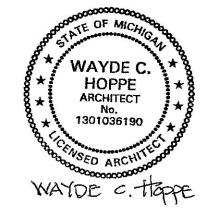
SCALE: 1/4" = 1'-0"

A002

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





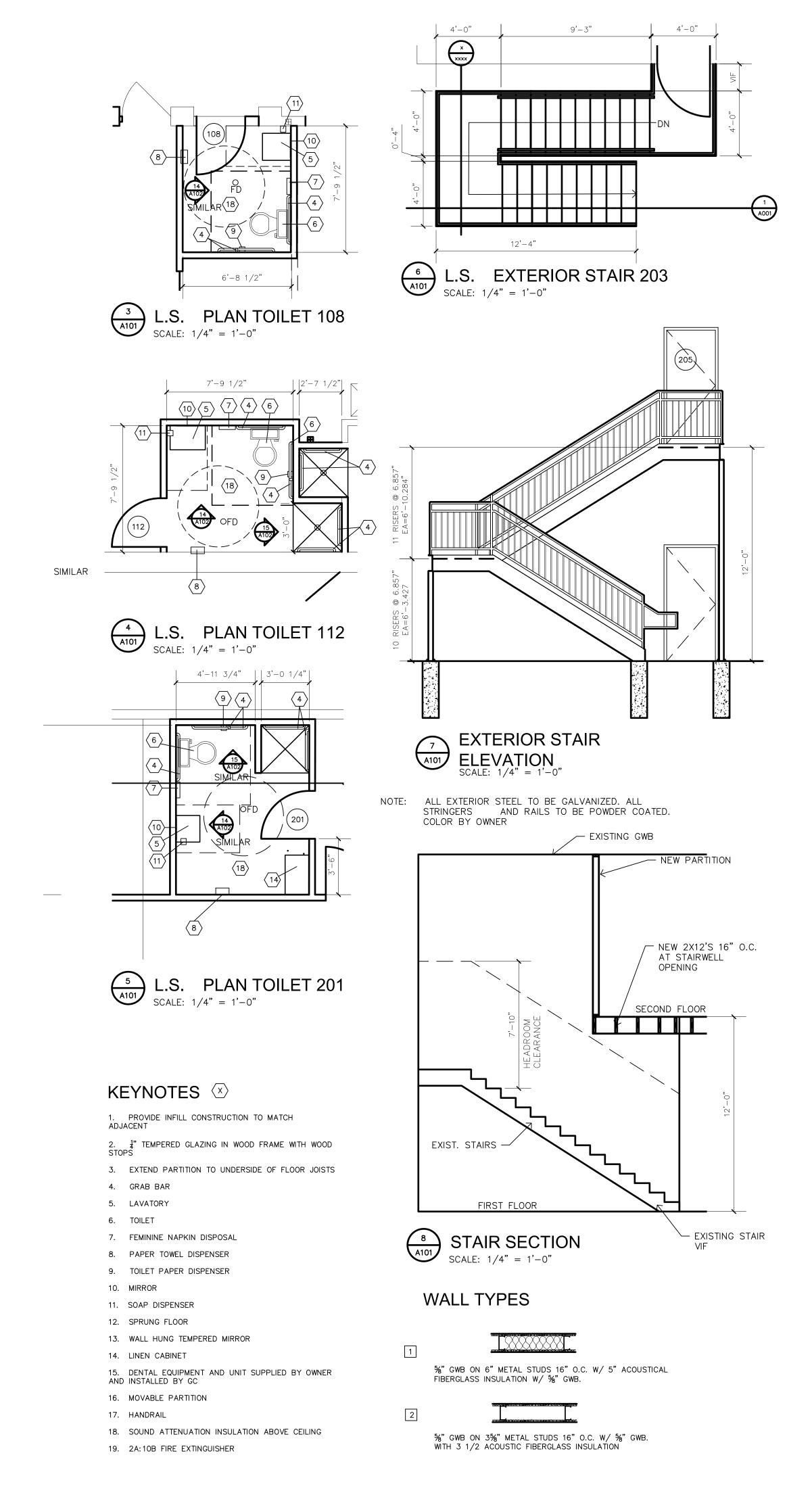


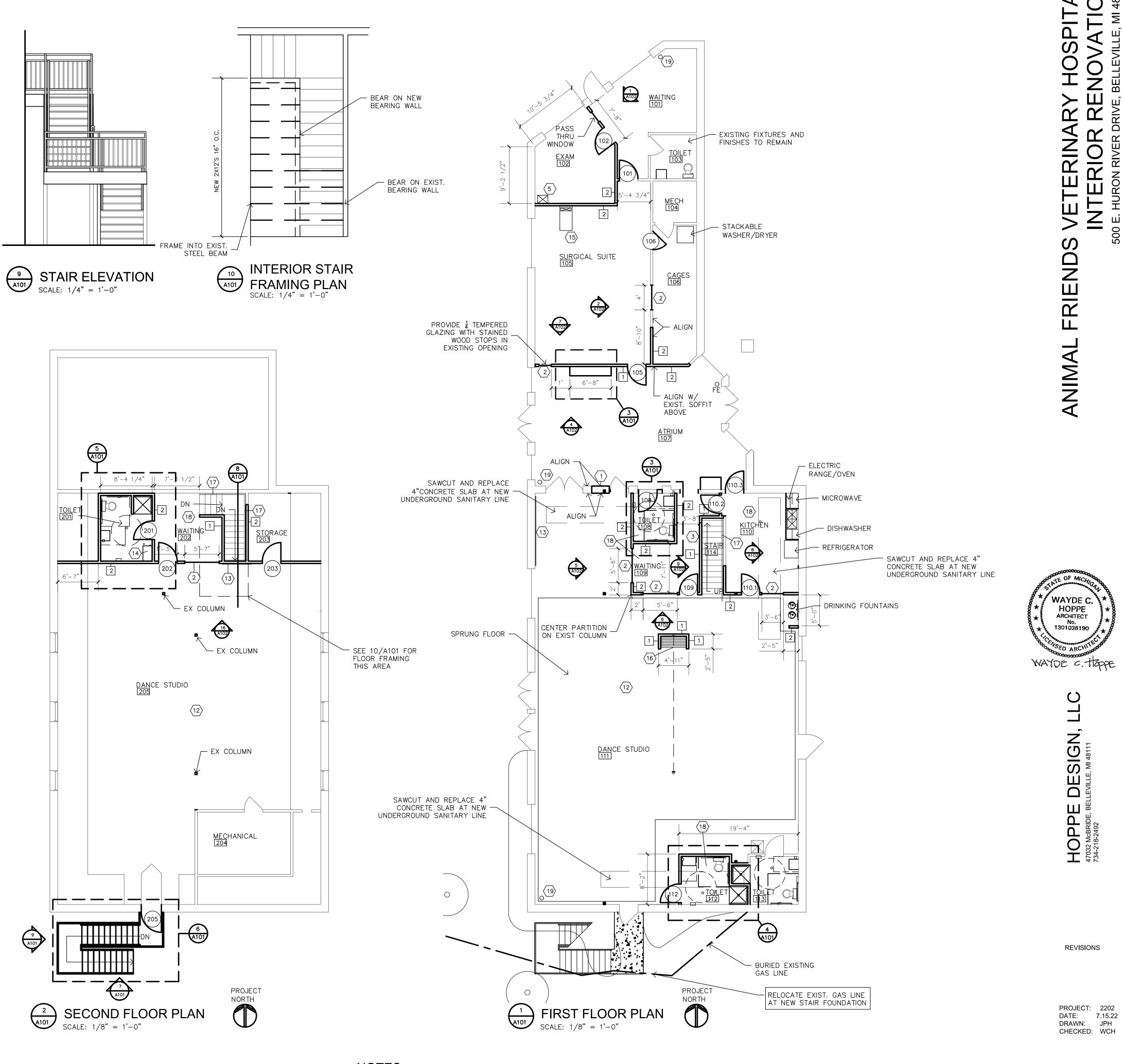


REVISIONS

PROJECT: 2202 DATE: 7.15.22 DRAWN: JPH CHECKED: WCH







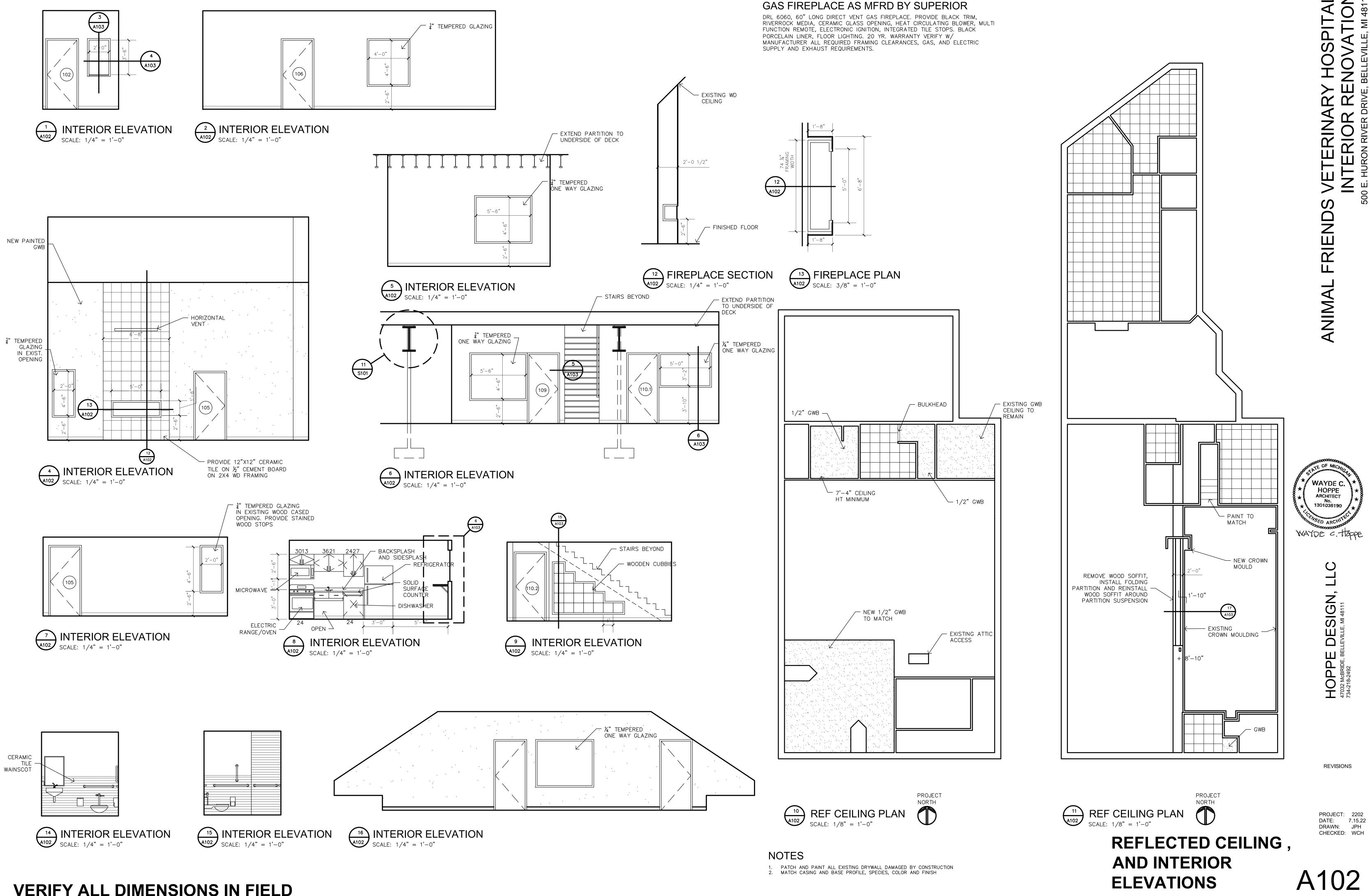
NOTES

PROVIDE FINISHED FLOOR FINISH TO MATCH EXISTING ADJACENT FLOORING IN AREAS OF NEW CONCRETE SLAB DETERMINE LOCATION OF UNDERGROUND SANITARY IN FIELD DETERMINE EXACT LOCATION OF BURIED GAS LINE PRIOR TO EXCAVATION DOOR THRESHOLDS TO BE RAISED TO ACCOMMODATE SPRUNG FLOOR SPRUNG FLOOR TO BE PROPRIETARY PRODUCT SELECTED BY OWNER. PROVIDE UNIT PRICE IN PROPOSAL

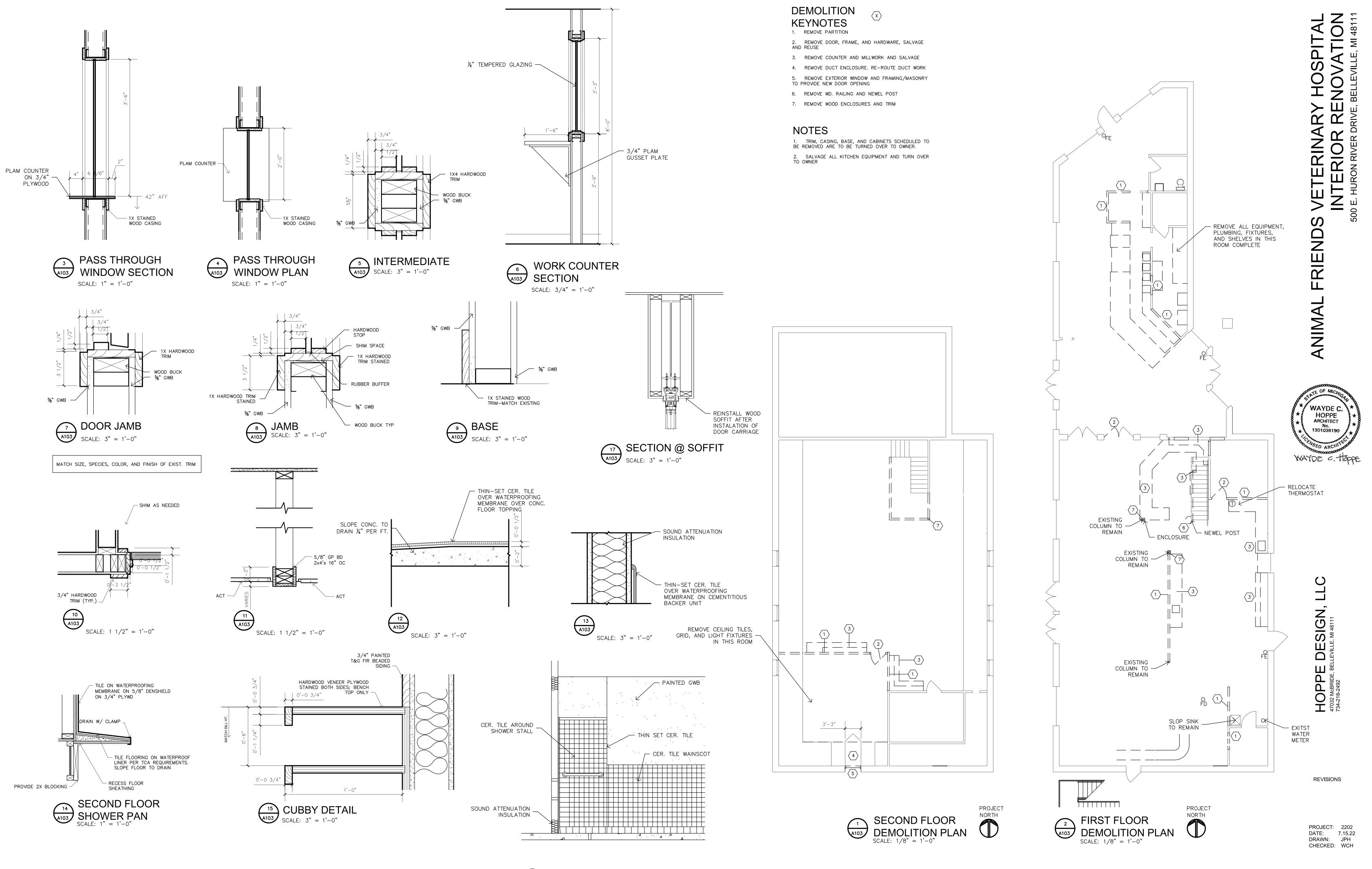
COPYRIGHT ALL RIGHTS RESERVED BY WAYDE C. HOPPE, ARCHITECT NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION

FLOOR PLAN

A101











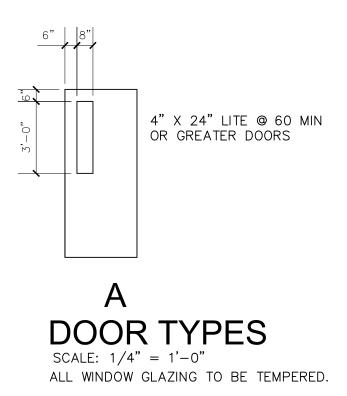
COPYRIGHT ALL RIGHTS RESERVED BY WAYDE C. HOPPE, ARCHITECT NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION

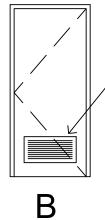
**DEMOLITION PLAN** 

|  |                                    |   |                         | THE A DOC OF                    |                       |            | RESPON SIBL TY              |   |
|--|------------------------------------|---|-------------------------|---------------------------------|-----------------------|------------|-----------------------------|---|
|  |                                    | PC, SCL,  | CLEAR                   | DIVISION<br>FACTORY             | 8                     | N⊮A        |                             | ARCHITECTURAL STAN GRA  |
| WOOD   |                                    | OR STV<br>SQLID   | CHERRY                  | FINISHED                        |                       |            |                             | CHERRY, PLAIN SLICED: CO<br>MATCH CABINETS  |
| DOOR: IN TERIOR<br>METAL                             | STEELCRAFT                         | CONVERCIAL<br>GRADE   | 18 GA                   | FACTORY<br>FINISHED             | BYOWNER               | NA         |                             | 16 GAUGE STEEL FRAMES Y<br>WELDED CORNERS AND FR<br>REINFORCEMENT. ALL JOIN<br>WELDED AND GROUND SM(  |
|  |                                    |   |                         |                                 |                       |            |                             | THREEFRAME ANCHORSM<br>JAM B; RUBBER BUMPERS  |
|  | STEELCRAFT, THERMA                 |   |                         |                                 | BYOWNER               | N/A        |                             | 18 GASTIFF ENERS 6" OC; O   |
|  |                                    | INSULATIO<br>N  | STEEL                   | GALVANZED<br>A TEXTERIOR        |                       |            |                             | ROLLED; PREFABRICATED B<br>FRAME AND TRIM; 16 GAUGE<br>FRAMES WITH WELDED COR<br>AND FRAME REINFORCEMEN<br>JOINTS WELDED AND GROU<br>SMOOTH. THREE FRAME AN |
| HARDWARE:<br>Security                                | AD AMS RITE                        | 4590/4591   | BOLT                    |                                 | US26D SATIN<br>CHROME |            |                             | MIN. PER JAMB<br>LATCH PADDLE   |
| HARDWARE:LOCK  |                                    | EXT D 53PD<br>RH0 626   |                         |                                 | US26D SATN<br>CHROME  |            |                             | PROVIDE CONSTRUCTION OF   |
| HARDWARE: OFFICE                                     | SCHLAGE                            | ND SERIES   | ATHENS                  | LIFETIME                        | US26D SATN            | N/A        |                             | OCCUPANCY   |
| HARD WARE:   | SCHLAGE                            | ND SERIES   | LEVER                   | LIFETIME                        | CHROME<br>US26D SATIN | NITA .     |                             |   |
| PASSAGE  |                                    |   | LEVER                   |                                 | CHROME                | N/A        |                             |   |
| HARDWARE:<br>STORAGE                                 | SCHLAGE                            | ND SERIES   | ATHENS<br>LEVER         | LIFETIME                        | US26D SATN<br>CHROME  | NłA        |                             |   |
| HARDWARE: EN TRY                                     | SCHLAGE                            | ND SERIES   | ATHENS                  | LIFETIME                        | U S26D SATIN          | N/A        |                             | ENTRYLOCK, DEADBOLT,  |
| HARDWARE: EXIT                                       | VON DUPRIN                         | 9927L X   | LEVER                   | US28D                           |                       | N∕A        |                             | DEAD BOLT ESCUTCHEON<br>PANIC HARD WARE   |
| HARDWARE:  | LCN                                | 9921.06   | <u> </u>                | ALUM                            | CHROME<br>BYOWNER     | N/A        | <u> </u>                    | KEY VALVES FOR BACKCHE  |
| CLOSER<br>HARDWARE: HINGES                           | HAGER                              | BB1279NRP   | 4 1/2 X 4               |                                 | US26D SATIN           | NA         |                             | SPEED AND LATCHING<br>CONCEALED BALL BEARING  |
|  |                                    | AND A DECK  | 1/2                     |                                 | CHROME                |            |                             | EXTERIOR DOORSUSE NON<br>REMOVEABLE PINS: LOCKAS<br>THE FULL OPEN POSITION: ;<br>WITH SEXBOLTS  |
|  | NATIONAL GUARD                     | 513 ALUM  | <u> </u>                |                                 | BYOWNER               | N/A        |                             | ADA   |
| THRESHOLD<br>HARDWARE:                               | NATIONAL GUARD                     | 601A  |                         |                                 | BYOWNER               | N/A        |                             |   |
| HARDWARE:WALL  |                                    |   | WALL                    |                                 | US26D SATIN           |            |                             | PROVIDE2 X10 WOOD BLOO  |
|  |                                    | 190V  | MOUNTED                 | N∕A                             | CHROME<br>BYOWNER     | N/A        |                             |   |
| WEATHER STRIPPING<br>HARDWARE: STRIKE                | LOCKSET PROVIDER                   | EXTENDED  | MATCH                   | MATCH                           | BYOWNER               | NA         |                             | EXTENDED STRIKE PLATE A   |
| WNDOWGLAZING   |                                    | SOLAR BAN   | acu 941                 | ane 10.545.1                    | a sources             | N/A        | SIGMA; IGC; ASTM            | JAVIB<br>SEALED; LOW E; IN SULATED  |
| SAFETY GLAZING                                       | 10050                              | 60 BRONZE<br>TEMPERED   |                         |                                 |                       |            | E774 CLASS B<br>AN SI 297.1 | GAS   |
|  |                                    |   |                         | DIVI SID N                      | 9                     |            |                             |   |
| GYPSUM BOARD   | USGYPSUM                           |   | 5/81                    | PRIME AND                       | EVOUNIED              | NA         |                             | GLUE AND SCREW: 114" S  |
|  | USGYPSUM                           |   |                         | PAINT                           |                       |            |                             | LENG TH MIN   |
| GYPSUM<br>GREENBOARD                                 | USGTPSUM                           |   | 5/8'                    | PANT                            |                       | N/A        |                             | GLUE AND SCREW: PROVID<br>BEHIND WALL TILE  |
| GYPSUM EXTERIOR                                      | USGYPSUM                           |   | 5/81                    | PRIME AND<br>PAINT              | BYOWNER               | N∦A        |                             | GLUE AND SCREW  |
| GYPSUM CEMENT<br>BOARD                               | USGYPSUM                           |   | 5/81                    |                                 | BYOWNER               | N⊮A        |                             | GLUE AND SCREW  |
| CARPET TILE  |                                    | 03164   | 2 X 2                   | FAINT                           |                       |            |                             | POURED ON PAD, MOISTUR  |
|  | LLCIDUPONT                         |   |                         |                                 |                       |            |                             | BARRIER, DIRECT GLUEWI<br>COMMERCIALON LOW VOC<br>ADHESIVE; SOLUTION DYED<br>LIFETIME WARRANTY ON FIE   |
| CARPET AD HESIVE                                     | TANDUS US<br>LL CIDU PON T         | C-EX  |                         |                                 |                       |            |                             | MOISTURE CONTENT TESTI<br>PRIOR TO CARPET INSTALL   |
|  |                                    |   |                         |                                 |                       |            |                             | 36 FLOOR PRIMER PRIOR TO<br>ADHERING CARPETING  |
| VINYL FLOOR TILE                                     | ARMSTRONG                          | EXCELON   | 12" X 12":<br>COMPOSITI |                                 | BYOWNER               | N/A        |                             |   |
| RUBBER STAR  | ROPPE                              | #92   | ONI                     |                                 | BYOWNER               | NA         |                             | STAIR TREAD RUBBER ADH  |
| TREAD  |                                    | SQUARE<br>NOSE LOW<br>PROFILE<br>RAISED<br>CIRCULAR<br>DESIGN |                         |                                 |                       |            |                             | EPO XY NO SING ADHESIVE   |
| LAMINATEWOOD   | PERGO OR EQUAL                     |   |                         |                                 | EASTLAKEOAK           | N⊮A        |                             |   |
| FLOORING<br>LAY-IN CELING TILE                       | USG                                | CLIMAPLUS   | 24" X 24"X              | MILLENNIA                       | WHITE                 | N/A        | ASTM E1374: ASSTM           | SQ EDGE: NRC .5565: STC   |
| LAY-IN CELING GRID                                   | ARMSTRONG, DONN                    | MARS<br>PRELUDE   | 3/4"<br>DX-DXL-24       |                                 |                       | N/A        | E84<br>ASTM C635            | FLAME SPREAD 0-25<br>16 GA, 1 1/2" MAIN CHANNEL   |
| TILE WALL  | DALTILE                            | XL 15/16"   | 1/4" THICK              | GLAZED                          |                       | N/A        | SUSPENSION<br>ANSI 137.1    | PROVIDEEDGE MOULDING,<br>AND ACOUSTIC SEALANT<br>LATEX THIN SET ADHESNE   |
| CONT   |                                    |   |                         |                                 |                       | 101 P      |                             | ONE PIECE INSIDE/OUTSIDE<br>CORNERS   |
|  | POLYBLEND,<br>LATICRETE            |   |                         |                                 |                       | N/A        |                             | LATEX GROUT   |
| TILE FLOOR   | DALTILE                            |   | ABRASNE                 | UNGLAZED:<br>2 CO ATS<br>SEALER |                       | N/A        | ANSI 137.1                  | LATEX THIN SET ADHESIVE;<br>N TEGRIAL COVE BASE; PAT<br>FACE AND CUSHIONED EDG  |
|  | POLYBLEND                          |   |                         |                                 |                       | N∕A        |                             | LATEXGROUT  |
|  | RADIUSCAP 2' X6'<br>LATICRETE      |   |                         | ļ                               |                       | N/A<br>N/A |                             | LATEX AD HESIVE   |
|  |                                    | 63  | 4"                      |                                 |                       | N/A        |                             | COVEAT VCT AND STRAIGH  |
|  | Sherwin Williams,<br>Benjamn Moore |   | LATEX<br>EN AVIEL       | EGG SHELL                       |                       | WA         |                             | CARPET<br>LATEXDRYWALL PRIMER. S<br>BLOCKING PRIMER ON STAI<br>TWO COATS LOW LUSTER L<br>ESGSHELL   |
|  | Sher win Williams                  | PRO MAR   | latex<br>Enamel         | STAIN                           |                       | NA         |                             | ONE COAT STAIN, ONE COAT<br>VARNISH, ONE COAT SATIN<br>SAND LIGHTLY BETWEEN C   |
|  |                                    | ļ   |                         | <b> </b>                        |                       | N⊮A        |                             | THOROUGH LY CLEAN AND   |
| STAIN-WOOD<br>INTERIOR<br>PAINT-ZINC COATED<br>METAL | DEVOE                              |   |                         |                                 |                       |            |                             | POWDERYOXIDE, GALVANIZ<br>METAL PRIMER, TWO COATS   |
| INTERIOR<br>PAINT-ZINC COATED                        | DEVOE                              |   |                         |                                 | BYOWNER               | NA         |                             |   |

|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   |                |                  | ROO                   | DM             | FINIS       | SHS                | CHE                   | EDUL           | E              |                    |               |                   |          |                  |      |       |                 |         |
|-----|-----------------|----|------------|--------------|----------|--------------|------------------|----------|------|--------|--------------|---------------|--------------------|-------------------------|------------------|---|----------------|------------------|-----------------------|----------------|-------------|--------------------|-----------------------|----------------|----------------|--------------------|---------------|-------------------|----------|------------------|------|-------|-----------------|---------|
|     |                 |    |            |              |          |              |                  |          |      | WA     | ۹LL:         | s             |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          | C                | :8LI | ING   | i               |         |
|     |                 |    |            | F            | LOC      | DR           |                  |          |      | E      | BAS          | E             |                    | 1                       | NOR              | TH                                      |                | SC               | DUTI                  | Н              |             | EA                 | ST                    |                | ٧              | NES                | ST            | Ν                 | MAT      | ERI              | ALS  |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   |                | ****             |                       |                |             |                    |                       |                |                |                    |               |                   |          | ~~~~~~           |      |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         | H                | _                                       |                |                  | T                     |                |             |                    | F                     |                |                | F                  | -             |                   |          |                  |      |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  | $\frac{1}{2}$                           |                |                  | lõ                    |                |             |                    | ő                     |                |                |                    | ر<br>ک        |                   |          | ٩                |      |       |                 |         |
|     |                 |    |            |              |          |              | Ë                |          |      |        |              |               |                    |                         | ш                |   |                | ш                | N                     |                |             | ш                  | NN N                  |                | Ц              | цĬ                 |               |                   |          | کر<br>ت          |      |       |                 |         |
|     |                 |    |            |              |          | Ř            | R                |          |      |        |              | <u>n</u>      |                    |                         | IAT              | .) 🖇                                    | ,              | IAT              | M                     | (ŋ             |             | IAT                | ¥١,                   | o l            | <br>∠          | $\overline{\zeta}$ | 5 (           | ,                 |          | C                | l E  |       |                 |         |
|     |                 |    |            | Ш            |          | 8            | Z                |          |      |        | ASE<br>SE    | Ë             | Ξ                  |                         |                  |   | Í              |                  | Щ                     | Ž              | Ĥ           | Ī                  | Щ                     | Ž              |                | Į L                | ц Ž           | É Q               | <u>p</u> | Q                | 5 Q  |       |                 |         |
|     |                 |    | щ          | F            |          | Ц<br>Ц       | S.               | 0        |      |        | B<br>B       | Å,            | ₹                  | EZ -                    | Z P              | = 5                                     | Ē              | E                | E                     | (IST           | ΪL          | Z                  | F                     |                |                | ΞĘ                 | - 55          |                   | 5        | Ш                | Ξ    |       |                 |         |
|     |                 | [≝ | Ē          | M            |          | ŰZ           |                  | Z        |      | ER     | Ň            | ш<br>Ö        | S<br>O             | PA                      | ΞÌ               |   | ) A            | :   <u>2</u>     | M                     | ĺΩ.            | PA          | 2                  | N I                   | ΩĮ             | Ξ              | 2                  | Įμ            | <u>ן</u> ר        | 2 5      | 5 Z              |      |       | 토               |         |
|     |                 |    | VINYL TILE | CERAMIC TILE | MOOD     | SPRUNG FLOOR | STAINED CONCRETE | EXISTING | νινγ | RUBBER | CERAMIC BASE | WOOD: PAINTED | WOOD STAINED       | GWB PAINTED             | PLASTIC LAMINATE | CERAMIC LILE WAINSCUT<br>DAINT EXISTING |                | PLASTIC LAMINATE | CERAMIC TILE WAINSCOT | PAINT EXISTING | GWB PAINTED | PLASTIC LAMINATE   | CERAMIC TILE WAINSCOT | PAINT EXISTING | DUVE FAILY LED |                    |               |                   | 2 X 2ACT | 2X2VII FACED GYP |      |       | HEIGHT          |         |
|     |                 | С  | ž          | Ю            | Ň        | Ъ            | ST               | Ш        | N    | RL     | Ü            | ž             | ž                  | ີ<br>ບ                  | 7                |   |                | i L              | Ü                     | PA             | Ъ           | 2                  | Ü                     | A              | ם ל            |                    | D<br>A        |                   | τ Č      | Х<br>Х           | ίď   |       | Ξ               |         |
|     | RM. NAME        | 1  | 2          | 3            | 4        | 5            | 6                | 7        | 1    | 2      | 3            | 4             | 5                  | 1                       | 2                | 3                                       | 4 <sup>-</sup> | 2                | : 3                   | -              |             | 2                  | 3                     |                |                | 2                  | 3             | 4 <sup>·</sup>    |          |                  | 3 4  |       |                 | REMARKS |
|     | WAITING         |    |            | ļ            |          | ļ            | ļ                | X        |      | ļ      |              | ļ]            | Х                  | X                       |                  |   | ( )            |                  |                       | X              | Х           | ļ                  |                       |                | X              |                    |               |                   |          | <                |      |       | 8'-6"           |         |
|     | EXAM            |    | ļ          | -            | ļ        | ļ            | ļ                | X        |      | ļ      | ļ            | ļļ            | Х                  |                         |                  |   | ( )            | (                |                       | 4              | Х           | ļ                  |                       |                | X              |                    |               |                   |          | (                |      |       | 8'-6"           |         |
|     | TOILET          |    | ļ          |              | ļ        |              | ļ                | X        |      |        | ļ            | ļļ            |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     | MECHANICAL      | _  |            |              |          |              |                  | X        |      |        |              |               |                    |                         |                  |   |                |                  |                       | <u> </u>       |             |                    |                       |                |                |                    |               |                   |          |                  |      |       | <u> </u>        |         |
|     | SURGERY         |    | v          | ļ            | ļ        |              | ļ                | X        |      | ļ      | ļ            |               | Х                  | X                       |                  |   | <i></i>        |                  |                       | X              |             |                    |                       | X              |                |                    |               | × –               | >        | <                |      |       | 8'-6"           |         |
|     | CAGES<br>ATRIUM |    | X          | <u> </u>     | <u> </u> |              | <u> </u>         | X        | X    |        |              |               | х                  | $\overline{\mathbf{v}}$ |                  |   | X              |                  | _                     | X<br>X         |             |                    |                       | X<br>X         |                |                    | )<br>)        |                   |          |                  | _    | +,    | VARIES          |         |
|     | TOILET          |    |            | Х            |          |              |                  | ^        |      |        | X            |               | ^                  | X                       |                  | x                                       | )              | e –              | Х                     |                | х           |                    | x                     |                | x              |                    | x Í           | <u> </u>          |          | <                | _    |       | VARIES<br>8'-0" |         |
|     | WAITING         | x  | ļ          |              |          |              |                  | -        | ~    |        |              |               | х                  | X                       |                  | ^                                       | 5              |                  |                       |                | X           | ļ                  |                       |                | X              |                    | ^             |                   |          | <u> </u>         |      |       | 0-0             |         |
|     | KITCHEN         |    | Х          | -            |          |              |                  | -        |      |        |              |               | $\hat{\mathbf{x}}$ |                         |                  |   | χĹ             | `                |                       | X              |             |                    |                       | X              |                | _                  | $\rightarrow$ | χ –               |          |                  |      |       | 8'-6"           |         |
|     | STUDIO          | -  |            | -            |          | Х            | 1                | 1        |      | -      |              |               | X                  |                         |                  |   |                | -                |                       | +              | ~           |                    |                       |                |                | -                  | -             | -                 |          |                  |      |       |                 |         |
| 112 | TOILET          |    | <u> </u>   | X            |          | 1            | 1                | 1        | ~    | 1      | X            | <b> </b>      |                    | X                       |                  | X                                       | >              |                  | X                     | 1              | Х           | <b> </b>           | X                     |                | x              |                    | x             |                   | )        | $\langle  $      |      | ••••• | 8'-0"           |         |
| 113 | TOILET          |    |            |              |          |              | 1                | X        | ~    | -      |              |               |                    |                         |                  |   | ******         |                  |                       | -              |             |                    |                       |                |                |                    |               |                   |          |                  |      | ••••• |                 |         |
| 114 | STAIR           |    |            |              |          |              |                  | Х        |      |        |              |               |                    |                         |                  |   | X              |                  |                       |                |             |                    |                       | X              | X              |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    | ļ          | ļ            | ļ        | ļ            | ļ                | ļ        |      | ļ      | ļ            | ļļ            |                    |                         |                  |   |                |                  |                       | _              |             | ļļ                 |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    | ļ          | ļ            | ļ        | ļ            | ļ                |          |      | ļ      |              |               |                    |                         |                  |   |                |                  |                       |                |             | ļļ                 |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    |            |              | ļ        |              | ļ                |          |      |        | ļ            |               |                    |                         |                  |   |                |                  |                       |                |             |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |
|     |                 |    |            | -            |          | -            | <u> </u>         | -        |      |        |              | ┝─┥           |                    |                         | _                |   |                |                  | _                     |                | -           | $\left  - \right $ |                       |                |                |                    |               |                   |          |                  | _    | _     |                 |         |
|     |                 |    |            |              | ļ        | ļ            | ļ                |          |      |        | <b> </b>     | ┝──┤          |                    |                         |                  |   |                |                  |                       |                |             | ┝──┤               |                       |                |                |                    |               |                   |          |                  |      | _     |                 |         |
|     |                 |    |            |              |          |              |                  |          |      |        |              |               |                    |                         |                  |   | _              |                  |                       |                |             |                    |                       |                |                |                    |               | _                 |          |                  | _    |       |                 |         |
|     |                 |    |            | -            |          | -            |                  | 1        |      | 1      |              | ┢──┤          |                    | +                       |                  |   |                |                  | -                     | +              |             |                    |                       |                |                |                    |               |                   |          |                  | _    |       |                 |         |
| 201 | TOILET          |    | <b> </b>   | Х            |          | İ            | 1                | 1        |      | 1      | X            |               |                    | X                       |                  | x                                       | >              |                  | X                     | +              | х           |                    | Х                     |                | x              |                    | x             |                   | x        |                  |      | 7     | 7'-4" MIN       |         |
|     | WAITING         | X  |            | 1            |          | 1            | 1                | 1        |      | 1      | 1            |               | Х                  | t                       | -                |   | x )            | (                |                       | 1              | Х           | m                  |                       |                | x              |                    |               |                   |          |                  |      |       | 8'-0"           |         |
|     | STORAGE         |    | Х          |              |          |              |                  |          | Х    |        |              |               |                    | f                       |                  |   | X >            |                  |                       |                | Х           |                    |                       |                | x              |                    |               | )                 | X        | 1                |      |       | EXIST.          |         |
|     | MECHANICAL      |    |            |              |          |              |                  | X        |      |        |              |               |                    |                         |                  |   | X >            | (                |                       |                | Х           |                    |                       |                | X              |                    |               |                   |          |                  | X    |       | EXIST.          |         |
| 205 | STUDIO          |    | Ļ          |              |          | Χ            |                  |          |      |        |              |               | Х                  | X                       |                  |   |                |                  |                       | X              |             |                    |                       | Х              |                |                    |               | $\langle \rangle$ | ×        |                  |      |       | EXIST.          |         |
|     |                 | 1  |            | [            |          |              |                  |          |      |        |              |               |                    |                         |                  | *****                                   |                |                  |                       | V VVV          | 1           |                    |                       |                |                |                    |               |                   |          |                  |      |       |                 |         |

|          |                           |                                 |  |    |   |                            |        |        |              |              |    |     |    | DC | DOF            | R S          | CHE |     |     |       |     |        |   |        |                            |    |      |   |      |     |      |     |      |    |         |          |   |          |                  |            |            |          |                       |                              |          | HAR                          | <u>ND</u> | AR         |            |                   |                    |                               |                  |          |                  |         |          |                  |        |   |
|----------|---------------------------|---------------------------------|--|----|---|----------------------------|--------|--------|--------------|--------------|----|-----|----|----|----------------|--------------|-----|-----|-----|-------|-----|--------|---|--------|----------------------------|----|------|---|------|-----|------|-----|------|----|---------|----------|---|----------|------------------|------------|------------|----------|-----------------------|------------------------------|----------|------------------------------|-----------|------------|------------|-------------------|--------------------|-------------------------------|------------------|----------|------------------|---------|----------|------------------|--------|---|
|          |                           |                                 |  |    |   | 0                          | 00     | DRS    |              |              |    |     |    |    |                |              |     |     | FR  | AN    | IES | ;      |   |        |                            |    |      |   | RE   | ٩M/ | ARK  | (S  |      |    |         |          |   |          |                  |            |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               |                  | -        |                  |         |          |                  | -      | _ |
|          |                           |                                 | SIZ                                      | ES |   |                            |        |        |              | MA           | TE | RIA | LS |    |                | M            | AT  | RI/ | 4L: | s     |     | 0      | DET                                     | AIL    | _S                         |    |      |   |      |     |      |     |      | LA | TC      | Н        |   | LC       | oci              | ĸ          |            | HIN      | GES                   |                              | CLO      | OSE                          | R         | KI         | СК         | ST                | OP                 |                               |                  |          |                  |         |          |                  |        |   |
|          | 3'-0'' X 6'-8'' X 1 3/4'' | v (2) 2'-6'' X 6'-8'' X 1 3/4'' | ω <mark>2'-8'' X 6'-8'' X 1 3/4''</mark> | _  |   | on (∠) 3 -0 ∧ 5 -8 ∧ 1 3/4 | ТҮРЕ   | MODEL  | WOOD STAINED | WOOD PAINTED |    |     | _  |    | - WOOD STAINED | WOOD PAINTED |     |     |     | 5     |     | JAMB   | HEAD                                    | SILL   | DOOP AND ERAME FIRE PATING |    |      |   |      |     |      |     |      |    | PASSAGE | PRIVACY  | STOREROOM                               | OFFICE   | ADAMS RITE       | VONDILPRIN | 1 1/2 PAIR | 2 PAIR   | 3 PAIR: SFI F CLOSING | CN 4011 H TRWMS PIILL VERIEV | HANDING  | LCN 4111_H_TBWMS PUSH VERIFY | HANDING   | 12" BRONZE | 18" BRONZE | WALL BALDWIN 4045 | FLOOR BALDWIN 4510 | PUSH PLATE IVES 8200 3" X 12" |                  | DEADBOLT | THRESHOLD        | BI-FOLD | SYLINDER | WEATHERSTRIPPING | POCKET |   |
| 0.<br>01 | Х                         | 2                               | 3  | 4  | • |                            | н<br>В | 2      | X            | -            | 3  |     | 4  | _  | X              | 2            | 3   | 4   |     | ,<br> | +   | ٦<br>ا | T                                       | S<br>S |                            | ╧╋ |      | Α | IR 1 | TRA | ANS  | FER |      |    | ב       | <u>a</u> | S                                       | X        | -                |            | · · ·      | -)       | <u>v (v</u>           | <u>'</u>  -                  | II       |                              | т<br>Х    | Ļ          | -          | ><br>X            | <u>Ľ</u>           |                               | ┡                |          | Ť                |         |          | >                | ╇      | ╀ |
|          | X                         | ļ                               |  |    | - |                            | В      |        | X            |              |    | _   |    |    | X              | ļ            |     |     |     |       |     |        |   |        |                            |    | <br> |   |      |     |      | FER | <br> |    |         |          |   | X        |                  | _          | X          |          |                       |                              | Х        |                              | ~         |            |            | ~                 | Х                  |                               |                  |          |                  |         |          |                  |        |   |
| 02       |                           |                                 |  |    |   |                            |        |        |              |              |    |     |    |    | ~              |              |     |     |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         |          |   |          |                  |            | Ĺ          |          |                       |                              | ^        |                              |           |            |            |                   | ^                  |                               |                  |          |                  |         |          |                  |        |   |
| 05       | х                         |                                 |  |    |   |                            | A      |        | х            |              |    |     | _  |    | Х              |              |     |     | -   |       |     |        |   |        |                            |    | <br> |   |      |     |      |     | <br> |    |         |          |   | X        |                  |            | ×          | (        |                       |                              |          |                              | x         |            |            |                   | Х                  |                               |                  |          |                  |         | _        | _                |        |   |
| 06       |                           |                                 |  |    | T |                            | А      | ****** | Х            |              |    |     | -  |    |                |              |     |     | T   |       |     |        | 000000000000000000000000000000000000000 |        | 100000 Doomood             |    | <br> | ١ | VEF  | RIF | Y S  | ZE  |      |    | Х       |          | 0-0000000000000000000000000000000000000 | 1        | 1                |            | X          | (        |                       |                              | Х        |                              |           |            |            |                   | Х                  |                               |                  |          |                  |         |          |                  |        |   |
| 08       | Х                         |                                 |  |    |   |                            | С      |        | Х            |              |    |     |    |    | Х              |              |     |     |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         | Х        |   |          |                  |            | X          | (        |                       |                              | Х        |                              |           |            |            | Х                 |                    |                               |                  |          |                  |         |          |                  |        |   |
| 09       | Х                         |                                 |  |    |   |                            | А      |        | Х            |              |    |     |    |    | Х              |              |     |     |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    | X       |          |   |          |                  |            | X          |          |                       |                              | Х        |                              |           |            |            | Х                 |                    |                               |                  |          |                  |         |          |                  |        |   |
| 0.1      | Х                         |                                 |  |    |   |                            | В      |        | Х            |              |    |     |    |    | Х              |              |     |     |     |       |     |        |   |        |                            |    |      | Α | IR 1 | TR/ | ANS  | FER |      |    | Х       |          |   |          |                  |            | X          | (        |                       |                              | Х        |                              |           |            |            |                   | Х                  |                               |                  |          |                  |         |          |                  |        |   |
| 0.2      | Х                         |                                 |  |    |   |                            | А      |        | Х            |              |    |     |    |    | Х              | ļ            |     | ļ   |     |       |     |        |   |        |                            |    |      |   |      |     |      |     |      |    | Х       |          |   |          |                  |            | X          |          |                       |                              |          |                              | X         |            |            | Х                 |                    |                               |                  |          |                  |         |          |                  |        |   |
| 0.3      | Х                         | ļ                               |  |    |   |                            | Α      |        | Х            |              | _  |     |    |    | Х              | ļ            |     | ļ   |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     | <br> |    | X       |          |   |          |                  |            | X          | Į        |                       |                              |          | ļ                            | X         |            |            | Х                 |                    |                               |                  |          |                  |         |          |                  |        |   |
| 12       | Х                         |                                 | ļ  | _  |   |                            | С      |        |              | X            | _  |     |    |    |                | X            |     |     | _   |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         | Х        |   | _        | _                |            | X          | <u> </u> |                       |                              |          |                              | X         |            |            | Х                 |                    |                               |                  |          |                  |         |          |                  |        |   |
|          |                           | ļ                               |  |    | _ |                            |        |        |              | _            | _  | _   |    |    |                | ļ            | _   | _   |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     | <br> |    |         |          |   | ļ        |                  |            |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          |                  |         |          |                  |        |   |
|          |                           | <u> </u>                        |  | _  | _ |                            |        |        |              |              | _  | _   | _  |    |                | ļ            |     | _   | _   |       |     |        |   |        |                            |    |      |   |      |     |      |     |      |    |         |          |   | <u> </u> | _                |            |            | _        |                       |                              |          |                              |           |            |            |                   |                    |                               |                  | _        | _                |         | _        |                  | _      |   |
|          |                           | -                               |  | _  | _ |                            |        |        | *****        | _            | _  | -   | _  |    |                | ļ            |     | _   | _   |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         |          |   | ļ        | _                | _          |            | _        |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          |                  |         |          |                  |        |   |
|          |                           |                                 |  | _  |   |                            |        |        |              |              |    | _   |    |    |                |              |     |     | _   |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         |          |   |          |                  |            |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          | _                |         |          |                  | _      |   |
|          |                           |                                 |  | _  |   |                            |        |        |              | -            | _  |     |    |    |                | ļ            |     | _   |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     | <br> |    |         |          |   |          |                  | _          |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          |                  |         |          |                  |        |   |
|          |                           |                                 |  | _  |   |                            |        |        |              |              |    | _   |    |    |                |              |     | _   | _   |       | _   |        |   |        |                            | _  | <br> |   |      |     |      |     | <br> |    |         |          |   |          |                  | _          |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          | _                |         |          |                  | _      | _ |
| 201      | х                         |                                 |  | -  | - |                            | С      |        |              | X            |    | -   |    |    |                | х            |     | -   | +   |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         | х        |   | -        | +                | _          | x          | -        |                       |                              | v        |                              |           |            |            |                   | х                  |                               |                  |          |                  |         |          |                  |        |   |
| 202      | ^<br>X                    |                                 |  |    |   |                            | A      |        | Х            |              |    | _   |    |    | Х              | ^            |     | -   | ╞   |       |     |        |   |        | _                          |    |      |   |      |     |      |     |      | -  | х       | ~        |   |          |                  | _          | Ŷ          |          |                       |                              | х<br>х   |                              |           |            |            | х                 | ^                  |                               |                  |          |                  |         |          | _                |        |   |
| 203      | X                         | <u>.</u>                        |  |    | - |                            | В      |        | X            |              |    | -   |    |    | X              |              |     | -   |     |       |     |        |   |        |                            |    | <br> | Δ | IR 1 |     |      | FER |      |    | ^       |          | x                                       |          |                  | _          | x          |          |                       |                              | <u>х</u> |                              |           |            |            | ^                 | х                  |                               |                  |          |                  |         |          |                  |        |   |
| 05       | Ê                         | <u> </u>                        | X  |    |   |                            | С      |        |              |              | X  |     |    |    | ~              |              | X   |     |     |       |     |        |   |        | -                          | -  | <br> |   |      |     | UNO. |     |      |    |         |          | ⊢^                                      | -        |                  | _          | Ê          | _        |                       |                              | ~        |                              |           |            |            |                   |                    |                               | $\left  \right $ | -        | $\left  \right $ |         |          |                  |        | - |
|          |                           |                                 |  | ·  |   |                            | ~      |        |              | -            |    | •   |    |    |                | <u> </u>     |     | -   | -   |       |     |        |   |        |                            |    | <br> |   |      |     |      |     | <br> |    |         |          |   |          | +                | -          |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               | -                |          |                  |         |          |                  | _      |   |
|          |                           |                                 |  | +  |   |                            |        |        |              | -            |    | +   |    |    |                |              |     |     | +   |       | ┫   |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         |          |   | 1        | ┢                | +          |            |          |                       | _                            |          |                              |           |            |            |                   |                    |                               |                  |          |                  |         |          |                  |        | ┫ |
|          |                           |                                 |  |    |   |                            |        |        |              |              |    |     |    |    |                |              |     | +   | +   | -     |     |        |   |        |                            |    | <br> |   |      |     |      |     | <br> |    |         |          |   | +        | +                |            |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          |                  |         |          |                  | -      |   |
|          |                           |                                 |  |    |   |                            |        |        |              |              |    |     |    |    |                | <u> </u>     | -   | -   |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     |      |    |         |          |   | +        | $\left  \right $ | -          |            |          |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          |                  |         |          |                  |        |   |
|          |                           |                                 | -  | -  | - |                            |        |        |              | -            | -  | -   |    |    |                |              | +   | -   |     |       |     |        |   |        |                            |    | <br> |   |      |     |      |     | <br> |    |         |          |   | +        | -                | _          |            | _        |                       |                              |          |                              |           |            |            |                   |                    |                               |                  |          |                  |         |          |                  |        |   |





- AIR TRANSFER

GRILLE

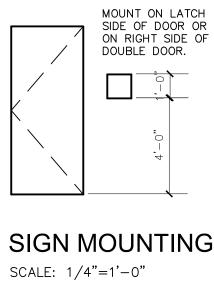
**VERIFY ALL DIMENSIONS IN FIELD** 

1. ALL HARDWARE @ ALUM DOORS BY ALUM DOOR SUPPLIER. HARDWARE BASED ON "KAWNEER"; MFG TO SUPPLY CYLINDER. ALUM DOOR HARDWARE SHALL MATCH DOOR FINISH. ALUM DOORS AND DOOR FRAMES SHALL BE KAWNEER "HEAVY WALL" OR EQUAL, 0.188" WALL THICKNESS.

4. ALUM DOORS AND FRAMES SHALL BE GLAZED WITH TEMPERED GLASS. EXTERIOR DOORS AND FRAMES SHALL BE 1" INSULATED GLASS. 5. ALL HM OR WOOD DOORS AND FRAMES SHALL BE GLAZED WITH TEMPERED GLASS, EXCEPT FIRE RATED DOORS AND FRAMES.

6. FIRE RATED DOORS AND FRAMES SHALL BE GLAZED WITH LABELED FIRE/SAFETY RATED GLASS TO MATCH FIRE RATING AND AS FOLLÓWS: 20 & 45 MIN - 1296 SQ IN MAX GLASS SIZE. 60 & 90 MIN - 100 SQ IN MAX GLASS SIZE.

7. FIRE RATED DOORS TO HAVE STEEL BALL BEARING HINGES. 8. WOOD DOORS TO BE 134" THICK.



HINGE SIDE APPROACH

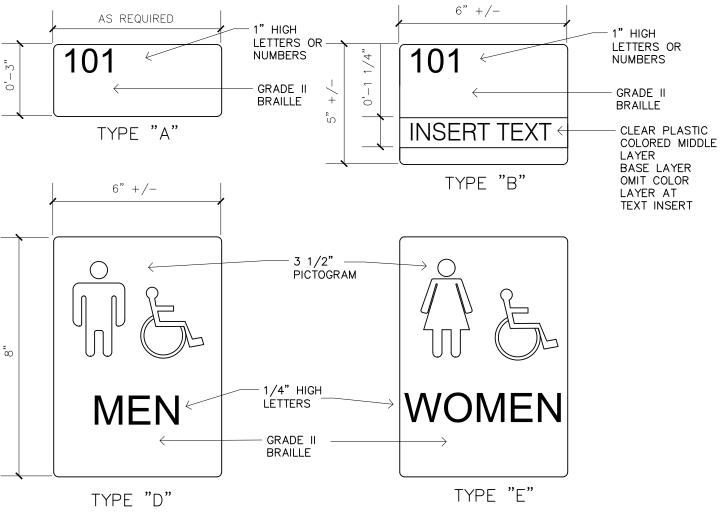
SCALE: 1/4"=1'-0"

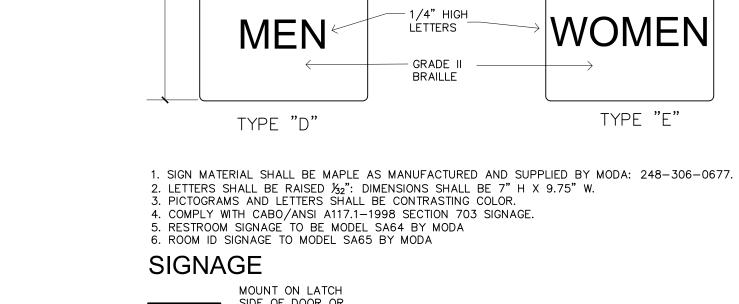


SEE SCHED 2"

С

NOTES 1. PROVIDE DENS SHIELD BOARD BEHIND ALL TILE APPLICATIONS. 2. PROVIDE WATER RESISTANT GREEN BOARD AT ALL BATHROOM APPLICATIONS.

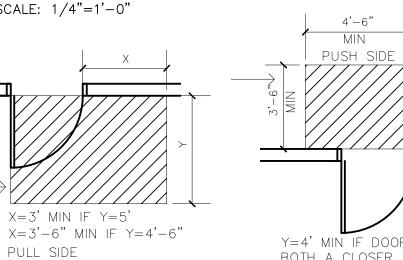


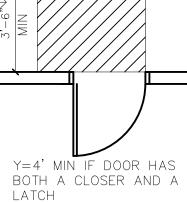


**ATION** 4811 A SPIT Σ /ILLE, NO/ ELLEV ÔH Ш Υ Π Π ш TERINAR VETERINA INTERIOR DD E. HURON RIVER DI D 500 S FRIEND( ANIMAL

## SIGN MOUNTING LOCATION

 $\rightarrow$ 

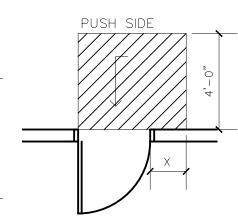




- SIGN LOCATION

HINGE SIDE APPROACH

# PULL SIDE



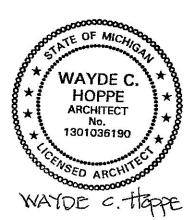
FRONT APPROACH

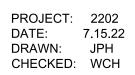
FRONT APPROACH

## BARRIER FREE DOOR APPROACH



| SINGLE | DOORS             |   | PAIRS (                     | OF DOORS                           |
|--------|-------------------|---|-----------------------------|------------------------------------|
| INSIDE | INSIDE            |   | INSIDE                      | INSIDE                             |
|        |                   |   | $\sim$                      |                                    |
| RH     |                   | ] | DR D                        |                                    |
| T HAND | LEFT HAND         |   | RIGHT HAND<br>ACTIVE        | LEFT HAND<br>ACTIVE                |
| ЭЕ     | INSIDE            |   | INSIDE                      | INSIDE                             |
|        | L L L             | ] |                             | L ノ                                |
| RHRB   | LHRB<br>LEFT HAND |   | RIGHT HAND<br>REVERSE BEVEL | DLHR<br>LEFT HAND<br>REVERSE BEVEL |
| BEVEL  | REVERSE BEVEL     |   | ACTIVE                      | ACTIVE                             |





REVISIONS



| PORT       Diff ME Minimum         Pressure Gauge       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.         Image: Diff ME Minimum       15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR THAT IS IN COMPLIANCE WITH ALL CODE AND REGULATIONS.         Image: Diff ME Minimum       15. CONTRACTOR SHALL DRAWINGS ARE SCHEMATIC ONLY. HVAC CONTRACTOR IS RESPONSIBLE         Image: Diff ME Minimum       16. CONTRACTOR TO FENTIOR CONTRACTOR IS RESPONSIBLE FOR THE NEW ROOM         Image: Diff ME Minimum       19. FOOD PREPARATION EXHAUST SHALL COMPLY WITH THE WAYNE COUNTY         I   | LEG                | END                     |  | NOTES   |      |  |
|--|--------------------|-------------------------|--|---|------|--|
|  |                    |                         |  | VIDED AND PERFORMED ACCORDING TO ALL STATE AND              |      |  |
|  |                    | GATE VALVE              |  | AND OUTSIDE AIR INLETS SHALL BE A MINIMUM OF 15'            |      |  |
|  |                    | GLOBE VALVE             |  | NOT EXCEED 55 DECIBELS AT THE LOT LINE.                     |      |  |
| <ul> <li>And Andrew /li></ul>   | δ E                | BALL VALVE              |  | BE FABRICATED OF SHEET METAL AND IN ACCORDANCE              |      |  |
|  |                    | CHECK VALVE             | EXCEED 6' MAXIMUM LENGTH.                  |   |      |  |
| <ul> <li>C. B. CARLENDER</li> <li>C. B. CARLENDER</li> <li>C. B. CARLENDER THE THE REPORTED THAT HAS A REPORT OF THE CARLENDER OF THE CARLENDER TO THE CARLENDER OF THE CARLENDE OF T</li></ul>   | —Ķ— 2              | 2-WAY CONTROL VALVE     |  | E DAMPER IN EACH BRANCH FOR BALANCING.                      |      |  |
| <ul> <li>Inclusion Proceeding</li> /ul>  | — <u>&amp;</u> — ; | 3-WAY CONTROL VALVE     | 7. PROVIDE FIRE DAMPER W                   | HERE THE DUCT PENETRATES THROUGH FIRE WALL.                 |      |  |
|  | ا                  | UBRICATED PLUG VALVE    |  |   |      |  |
| <ul> <li>Alexan Artina</li> <li>Alexan A</li></ul>   |                    |                         |  |   |      |  |
| <ul> <li>Construction of the construction /li></ul>  |                    |                         |  | TO BE VERIFIED BY THE CONTRACTOR AND SIZE GAS               |      |  |
| <ul> <li>Bernard Anderson and Antipart and Part and P</li></ul>   |                    |                         |  |   |      |  |
| Image: transmitter       Image: t  |                    |                         | GAS PRESSURE. VERIFY GAS F                 | PIPE SIZES, RESIZE IF NECESSARY.                            |      |  |
| <ul> <li>SHETT METAL SCREEK MAY FE</li> <li>SHETT</li></ul>   | ł ł                |                         | FROM 1# DOWN TO 7" TO CON                  | NECT GAS INLET OF HVAC UNITS OR AS RECOMMENDED              |      | MANUF                                  |
| <ul> <li>CONNECTED</li> <li>PROVIDE ONE PROVIDE TO SUBJECT THE TAXAGET STRATE TO STRATE</li></ul>  | 9                  |                         |  |   | EF-1 | C                                      |
| <ul> <li>Control of the second of the se</li></ul>   | П                  |                         | NEW HVAC SYSTEM TO PR                      | OVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH            |      | WHITE ALUN                             |
| <ul> <li>MAGE TO AND AD ADD TO ADD THE ADD TO A</li></ul>   |                    |                         | 17. MECHANICAL DRAWINGS AF                 | RE SCHEMATIC ONLY. HVAC CONTRACTOR IS RESPONSIBLE           | GBD  | GRAVITY BA                             |
| <ul> <li>Less Andel</li> <li>Setti Marka Schenkert</li> <li>Setti Marka Sc</li></ul>   | (                  |                         | 18 NEW OUTSIDE AIR DUC                     | CT UP WITH MANUAL BALANCE DAMPER TO NEW                     | 130  |  |
| V-SIMABLE CONSIDE<br>PUE REARL CONSIDE<br>ORM. TO REAL<br>ORM. TO REAL   | <u>AV</u> /        | AIR VENT                | EDGE AND FROM ANY<br>19 FOOD PREPARATION E | PLUMBING VENT.<br>XHAUST SHALL COMPLY WITH THE WAYNE COUNTY |      | TYPE                                   |
| <ul> <li>THE RESIDENCE THE THE PROVIDE A MARKET OF /li></ul>   | <u> </u>           | Y–STRAINER              | 20 THE MECHANICAL CON                      | TRACTOR IS RESPONSIBLE FOR THE NEW ROOM                     |      |  |
| Image: Interview       Image: Interview       Image: Interview       Image: Interview         Image: Interview       Image: Interview       Image: Interview       Image: Interview       Image: Interview         Image: Interview       Image: Interview       Image: Interview       Image: Interview       Image: Interview         Image: Interview       Image: Interview       Image: Interview       Image: Interview       Image: Interview       Image: Interview  | — <del>—</del> ——  | PIPE FLEXIBLE CONNECTOR | THERMOSTATS.                               |   |      | ······································ |
| ACT FLORED CONTENT AT HOME DOOL DECEMENT OF RECENCE OF COLOR      EXST. FREE RANGER      KEY, FOR RANGER      KEY, COMB, REF, ZANGHE   |                    | CONN. TO EXIST.         | MUST BE A MINIMUM                          | OF 24" ABOVE THE ROOF DECK.                                 |      |  |
| EVERT METAL SCREWS THATE AND ADDRESS THAT AT THE PORT ADDRESS THAT A STRAP   |                    | DUCT FLEXIBLE CONNECTOR | 22 PROVIDE DUCT DETEC                      | TORS AS REQUIRED BY CODE                                    |      | 1 THRC<br>2 OPPO                       |
| Image: State Subset Daves         Image: State Subset Daves         Image: State Daves         Image: Daves <tr< th=""><th>——&lt; E</th><th>EXIST. FIRE DAMPER</th><th></th><th></th><th></th><th>3 PRO</th></tr<>  | ——< E              | EXIST. FIRE DAMPER      |  |   |      | 3 PRO                                  |
| Image: State cover. The shore         Image: State cover. The shore </th <th></th> <th>NEW FIRE DAMPER</th> <th></th> <th></th> <th></th> <th></th>  |                    | NEW FIRE DAMPER         |  |   |      |  |
| Image: Street Metal SCREWS MAY BE         Image: Street Metal STRAET MAY BE  |                    | EXIST. SMOKE DAMPER     |  |   |      |  |
| NEW CONSTITUE/SNOKE      NEW CONSTITUE/SNOKE      NEW CONSTITUE/      REUMIN GRILE      SHEET METAL SCREWS MAY BE     OF SNAUST GRILE      SHEET METAL SCREWS THROUGH     OF SNAUST GRILE   |                    | NEW SMOKE DAMPER        |  |   |      |  |
| Image: Structure recommendations         Image  |                    |                         |  |   |      |  |
| SHEET METAL SCREWS MAY BE<br>CONTINUOUS UNDER BOTTOM OF<br>DUCTS LESS THAN 60' SHEET METAL STRAP TO STRUCTURE<br>ABOVE PER SMACRA RECOMMENDATIONS<br>DUCTS LESS THAN 60' SHEET METAL STRAP<br>DUCTS LESS THAN 60' SHEET METAL STRAP<br>DUCTS CREATER THAN 60' DUCT' WEIGHT<br>DUCTS CREATER THAN 60' DUCT' WEIGHT   |                    |                         |  |   |      |  |
| SHEET METAL SCREWS MAY BE<br>CONTINUOUS UNDER BOTTOM OF<br>DUCTS OREATER THAN 60" SECURE HANGER STRAP TO STRUCTURE<br>ABOVE PER SMACNA RECOMMENDATIONS<br>GALVANIZED HANGER STRAP<br>DUCTS LESS THAN 60" SHEET METAL SCREWS THROUGH<br>BOTTOM OF DUCT<br>ULTS OREATER THAN 60" SHEET METAL SCREWS THROUGH<br>BOTTOM OF DUCT<br>ULTS OREATER THAN 60" NUT AND WASHER AT BOTTOM<br>OF ROO ULTS OREATER THAN 60" NUT AND WASHER AT BOTTOM<br>ULTS OREATER THAN 60" NUT AND WASHER AT BOTTOM<br>ULTS OREATER THAN 60" SHEET METAL SCREWS THROUGH<br>DUCTS OREATER THAN 60" NUT AND WASHER AT BOTTOM<br>ULTS OREATER THAN 60" SUCTS OREATER THAN 60" NUT AND WASHER AT BOTTOM<br>ULTS OREATER THAN 60" SUCTS OREATER THAN 60" NUT AND WASHER AT BOTTOM  |                    |                         |  |   |      |  |
| SHEET METAL SCREWS MAY BE<br>OWITHED IF HANGER STRAPS ARE<br>CONTINUOUS UNDER BOTTOM OF<br>DUCT<br>DUCT LESS THAN 60"<br>SHEET METAL SCREWS THROUGH<br>DUCTS LESS THAN 60"<br>SHEET METAL SCREWS THROUGH<br>DUCTS CREATER THAN 60"<br>DUCTS CREA |                    | SUPPLY DIFFUSER         |  |   |      |  |
| SHEET METAL SCREWS MAY BE<br>OMITTED IF HANGER STRAPS ARE<br>CONTINUOUS UNDER BOTTOM OF<br>DUCTS LESS THAN 60° SHEET METAL SCREWS THROUGH<br>DUCTS LESS THAN 60° SHEET METAL SCREWS THROUGH<br>BOTTOM OF DUCT<br>THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>THREADED HANGER ROD<br>DUCTS GREATER THAN 60°<br>DUCTS GREATER T       | F                  | RETURN GRILLE           |  |   |      |  |
| SHEET METAL SCREWS MAY BE<br>OMITTED IF HANGER STRAPS ARE<br>CONTINUOUS UNDER BOTTOM OF<br>DUCT<br>DUCT<br>DUCT<br>DUCTS LESS THAN 60"<br>SHEET METAL SCREWS THROUGH<br>BOTTOM OF DUCT<br>SECURE THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>SECURE THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>THREADED HANGER ROD<br>ANGLE OR UNISTRUT RATED FOR<br>DUCTS GREATER THAN 60"<br>IN WDTH OR MULTIPLE<br>DUCTS CREATER THAN 60"<br>IN WDTH OR MULTIPLE<br>DUCTS WIDE SHEET METAL STRAP<br>MITH HEMMED EDCES,<br>SUPPORT FROM STRUCTURE   | E                  | EXHAUST GRILLE          |  |   |      |  |
| SHEET METAL SCREWS MAY BE<br>OMITTED IF HANGER STRAPS ARE<br>CONTINUOUS UNDER BOTTOM OF<br>DUCT<br>DUCT<br>DUCT<br>DUCTS LESS THAN 60"<br>SHEET METAL SCREWS THROUGH<br>BOTTOM OF DUCT<br>SECURE THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>SECURE THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>THREADED HANGER ROD<br>ANGLE OR UNISTRUT RATED FOR<br>DUCTS GREATER THAN 60"<br>IN WDTH OR MULTIPLE<br>DUCTS CREATER THAN 60"<br>IN WDTH OR MULTIPLE<br>DUCTS WIDE SHEET METAL STRAP<br>MITH HEMMED EDCES,<br>SUPPORT FROM STRUCTURE   |                    |                         |  |   |      |  |
| SHEET METAL SCREWS MAY BE<br>OMITTED IF HANGER STRAPS ARE<br>CONTINUOUS UNDER BOTTOM OF<br>DUCT<br>DUCT<br>DUCT<br>DUCTS LESS THAN 60"<br>SHEET METAL SCREWS THROUGH<br>BOTTOM OF DUCT<br>SECURE THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>SECURE THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>THREADED HANGER ROD<br>ANGLE OR UNISTRUT RATED FOR<br>DUCTS GREATER THAN 60"<br>IN WDTH OR MULTIPLE<br>DUCTS CREATER THAN 60"<br>IN WDTH OR MULTIPLE<br>DUCTS WIDE SHEET METAL STRAP<br>MITH HEMMED EDCES,<br>SUPPORT FROM STRUCTURE   |                    |                         |  |   |      |  |
| OMITTED IF HANGER STRAP<br>CONTINUOUS UNDER BOTTOM OF<br>DUCT<br>DUCTS LESS THAN 60"<br>IN WIDTH<br>NUT AND WASHER AT BOTTOM<br>OF ROD<br>DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS<br>DUCTWORK<br>SUPPORT   |                    | SCREWS MAY DE           | k  |   |      |  |
| DUCT<br>DUCTS LESS THAN 60"<br>DUCTS LESS THAN 60"<br>DUCTS LESS THAN 60"<br>SHEET METAL SCREWS THROUGH<br>BOTTOM OF DUCT<br>SECURE THREADED ROD TO STRUCTURE ABOVE<br>PER SMACNA RECOMMENDATIONS<br>THREADED HANGER ROD<br>ANGLE OR UNISTRUT RATED FOR<br>DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS<br>DUCTWORK<br>SUPPORT<br>1.5" WIDE SHEET METAL STRAP<br>WITH HERMED EDGES,<br>SUPPORT  | OMITTED IF HANG    | SER STRAPS ARE          | ×  | GALVANIZED HANGER STRAP                                     |      |  |
| NUT AND WASHER AT BOTTOM<br>OF ROD<br>DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS CREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS<br>DUCTWORK<br>SUPPORT<br>1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE  |                    |                         |  | SHEET METAL SODEWS THROUGH                                  |      |  |
| NUT AND WASHER AT BOTTOM<br>OF ROD DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS DUCTWORK<br>SUPPORT 1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE   |                    |                         |  |   |      |  |
| NUT AND WASHER AT BOTTOM<br>OF ROD<br>DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS<br>DUCTWORK<br>SUPPORT<br>1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE  |                    |                         |  |   |      |  |
| NUT AND WASHER AT BOTTOM<br>OF ROD<br>DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS<br>DUCTWORK<br>SUPPORT<br>1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE  |                    |                         |  |   |      |  |
| DUCTS GREATER THAN 60"<br>IN WIDTH OR MULTIPLE<br>DUCTS<br>DUCTWORK<br>SUPPORT<br>1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE  |                    |                         |  |   |      |  |
| IN WIDTH OR MULTIPLE<br>DUCTS<br>DUCTWORK<br>SUPPORT<br>1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE  | NUT AND WAS        |                         |  |   |      |  |
| SUPPORT<br>1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE   |                    |                         |  |   |      |  |
| 1.5" WIDE SHEET METAL STRAP<br>WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE  |                    |                         |  |   |      |  |
| WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE   |                    |                         | SUPPORT                                    |   |      |  |
| WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE   |                    |                         |  | - 1.5" WIDE SHEET METAL STRAP                               |      |  |
|  |                    |                         |  | WITH HEMMED EDGES,<br>SUPPORT FROM STRUCTURE                |      |  |

CORE.

- TWO WRAPS OF DUCT TAPE AND DRAWBAND OR METAL

SCREW CLAMP AROUND DUCT

45 DEGREE CHANGE IN DIRECTION \_ SHOWN ON PLANS

MITERED ELBOW WITH TURNING VANES -

45 DEGREE BRANCH DUCT FITTING

## VERIFY ALL DIMENSIONS IN FIELD

FLEX DUCT

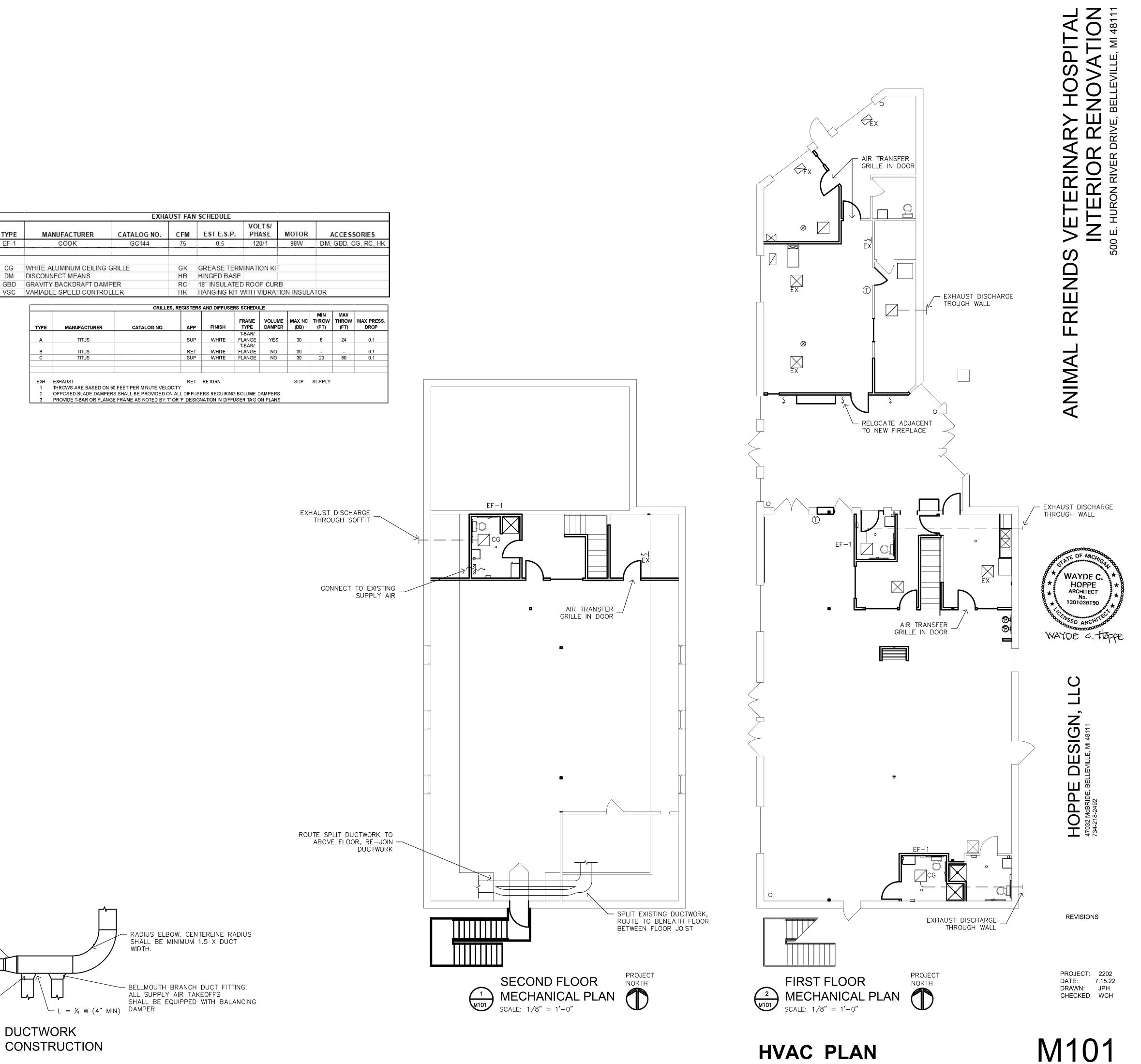
INSTALLTION

MAXIMUM DUCT LENGTH SHALL

EXTENSION DUCT COLLAR —

TWO WRAPS OF DUCT TAPE AND DRAWBAND OR METAL SCREW CLAMP AROUND DUCT CORE.

BE 6'-0"



|      |              | LIG                                  | HT FIXTUR | RE SCHEDULE |                               |                    |
|------|--------------|--------------------------------------|-----------|-------------|-------------------------------|--------------------|
| TYPE | MANUFACTURER | CATOLOG NUMBER                       | LAMPS     | NO-WATTS    | MOUNTED                       | REMARKS            |
| A    | BY OWNER     | SELECTION BY OWNER                   | LED       |             | PENDANT                       | 3500K 80 CRI       |
| В    | LITHONIA     | EPANL 2X2 3400LMHE 80CRI 35K MIN1    | LED       |             | SUSPENDED, LAY IN,<br>SURFACE | POLYCARBONATE LENS |
| С    | LITHONIA     | MDP BNP (SHADE SELECTION BY OWNER)   | LED       |             | 132" PENDANT                  | 3500K 80 CRI       |
| D    | SHIPLIGHTS   | H-12 MILK, BRASS, INTERIOR, NAUTICAL | LED       |             | SCONCE                        | 8' MOUNTING HEIGHT |
| E    | JUNO         | R600L NFL BL TLENS4 NFLD             | LED       |             | TRACK                         | 35K                |
| F    | LITHONIA     | LDN6 35 L06 WR LD MVOLT              | LED       |             | RECESSED                      |                    |
| EM   | SURE LIGHTS  | APEL                                 | LED       |             | WALL/CEILING                  |                    |
| XEM  | SURE LIGHTS  | APCH7R W/ APWR REMOTE HEAD           | LED       |             | WALL/CEILING                  |                    |

VERIFY FIXTURE SELECTIONS WITH OWNER

CEILING FAN TO BE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR

#### LEGEND

| S <sub>D</sub>        | SWITCH ON RHEOSTAT |
|-----------------------|--------------------|
| S                     | THREE WAY SWITCH   |
| <b>S</b> <sub>₽</sub> | SWITCH WITH PILOT  |

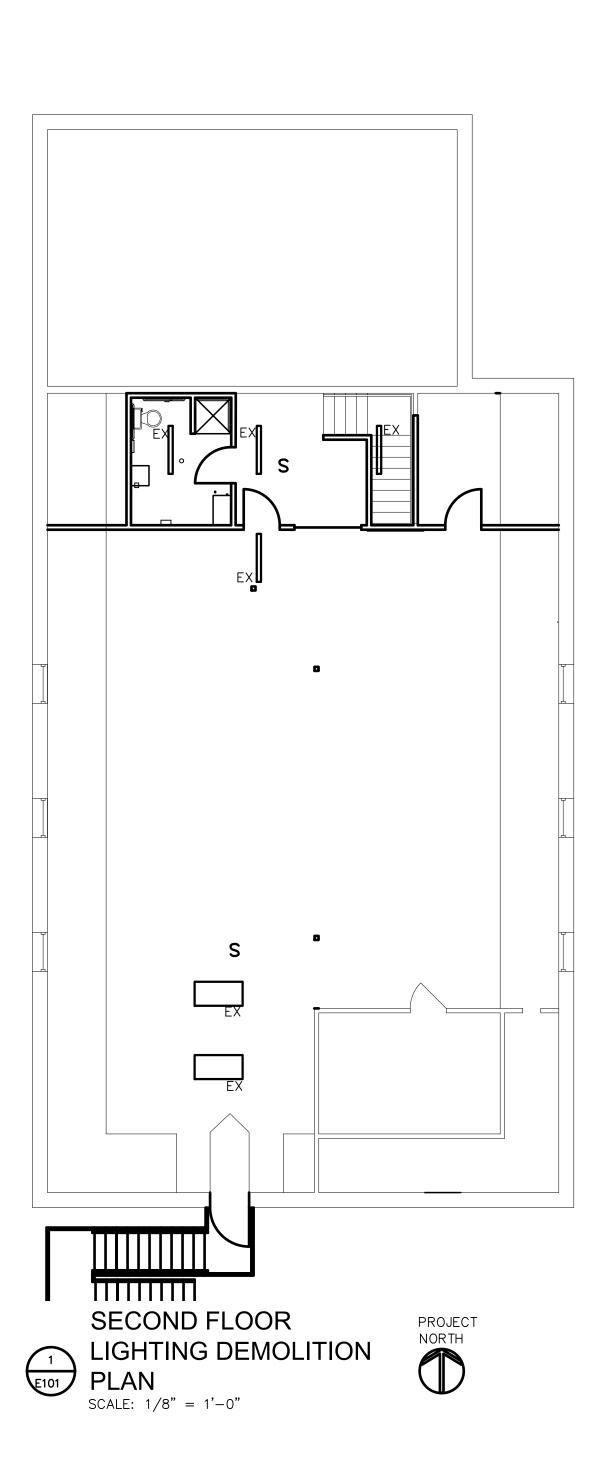
- SWITCH
- SPECIAL OUTLET
- DUPLEX OUTLET
- QUAD OUTLET
- ← WEATHERPROOF OUTLET
- GROUND FAULT INTERUPTER
- ▼ TELEPHONE / COMPUTER
- 0 SMOKE DETECTOR
- Y TELEVISION / CABLE
- -O- CEILING MOUNTED LIGHT FIXTURE
- **-O**-CEILING MOUNTED LIGHT FIXTURE RECESSED
- <u>-</u>ଦ୍-WALL MOUNTED LIGHT FIXTURE

SCONCE

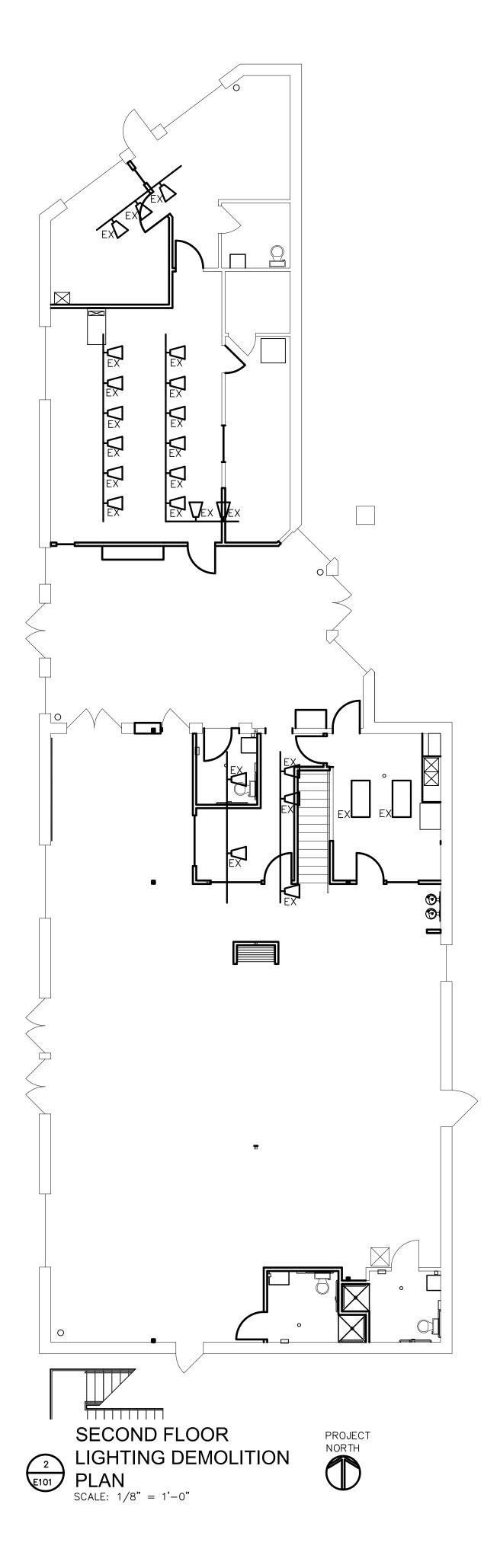
- **O** MOTOR, ONE PHASE
- GROUND MNTD
- EXT. LIGHTING
- 2x4 LAY IN LIGHT FIXTURE
- 1 X 4 LIGHT FIXTURE
- O PENDANT MOUNTED OVERSIZED FIXTURE
- EXIT SIGN
- EXIT SIGN/ EMERGENCY LIGHT
- FIRE ALARM PS PULL STATION
- HORN/ STROBE
- COMPUTER JACK
- RATE OF RISE HEAT DETECTOR
- DISCONNECT SWITCH
- DISCONNECT SWITCH WITH FUSE
- AUDIO JUNCTION BOX-PRE-WIRE PER DIRECTION OF OWNER

## ELECTRICAL $\langle \bar{x} \rangle$

- **KEYNOTES**
- 1. OCCUPANCY SENSOR EQUAL TO WATTSTOPPER ST-200 2. EXHAUST FAN TO BE CONTROLLED WITH LIGHTS BY
- OCCUPANCY SENSOR. 3. INSTALL REMOTE EMERGENCY FIXTURE ABOVE DOOR.



## **VERIFY ALL DIMENSIONS IN FIELD**



### ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE N.E.C., COUNTY AND LOCAL CODES, ORDINANCES, AND REGULATIONS INCLUDING MIOSHA. 2. COORDINATE ALL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITES BEFORE

INSTALLATIONS. 3. THE SECONDARY UNDERGROUND CONDUIT AND WIRE SHALL MEET THE REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY.

4. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A 1/4" DIA. POLYPROPYLENE FISH LINE. 5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED 24" MINIMUM BELOW GRADE (UNLESS OTHERWISE SHOWN ON PLAN).

6. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, INSTALLED WITH WATERTIGHT CONDUIT FITTINGS. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL TRANSITIONS FROM UNDERGROUND TO EXPOSED CONDUIT.

8. ALL THREADED ELECTRICAL EQUIPMENT (CONDUIT, FITTINGS, BOLTS, SCREWS, ETC.) INSTALLED AT EXTERIOR SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION. 9. ALL WEATHERPROOF (W.P.) DUPLEX RECEPTACLES SHALL BE INSTALLED SUCH THAT COVER DOORS

OPEN UPWARD. 10. HAND DIG WHERE REQUIRED TO LOCATE EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW UNDERGROUND CONDUITS FOR POWER AND LIGHTING.

11. PROVIDE A GREEN GROUND CONDUCTOR IN ALL SYSTEM CONDUITS, EXCEPT INSTRUMENT SIGNAL AND ALARM CONDUITS, INCLUDING BRANCH CIRCUIT CONDUITS FOR LIGHTING AND RECEPTACLES. GROUND CONDUCTOR SIZING SHALL BE PER N.E.C. TABLE 250.122 (MINIMUM) WHERE NOT SIZED ON THE DRAWINGS.

12. WIRE SIZE SHALL BE #12 (MINIMUM) AND CONDUIT SIZE SHALL BE 3/4" (MINIMUM) FOR ALL POWER AND LIGHTING CIRCUITS WHERE NOT SIZED ON THE DRAWINGS. 13. INSTALL SEPARATE GROUNDING CONDUCTOR TO ALL ISOLATED GROUND RECEPTACLES.

14. LOCATE JUNCTION BOXES PER MANUFACTURER'S REQUIREMENTS.

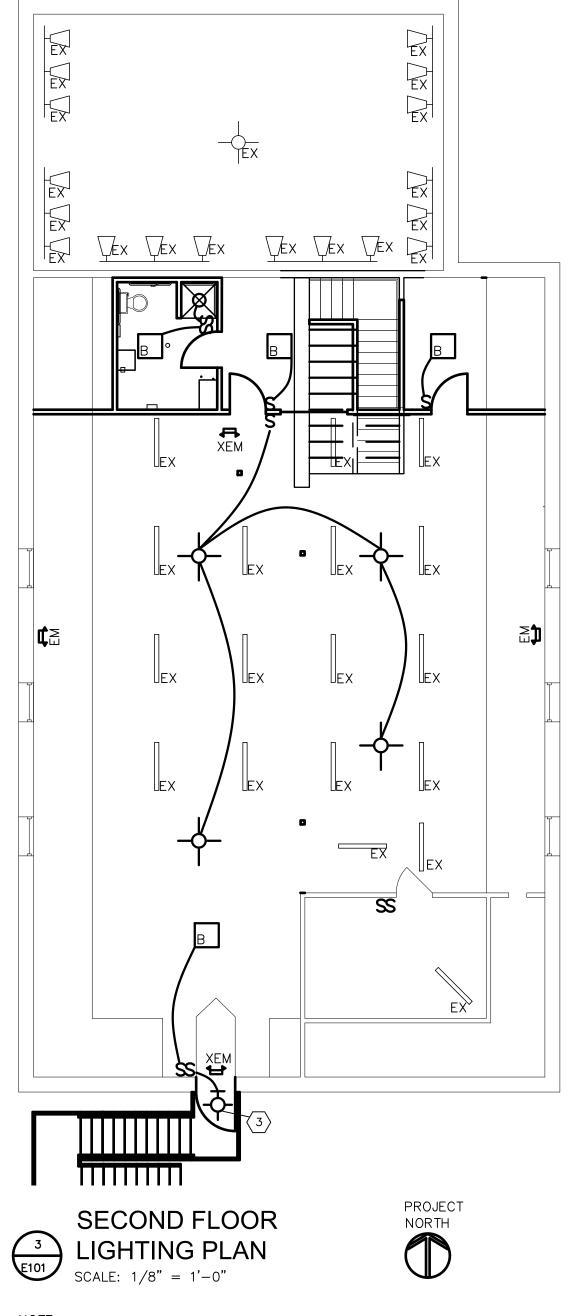
15. EXHAUST FANS TO BE PROVIDED WITH SPEED CONTROL LOCATED ABOVE THE CEILING. PROVIDE

A SWITCH WITH A PILOT LIGHT. 16. VERIFY LOCATION OF ALL POWER, PHONE, AND DATA JUNCTION BOXES WITH THE OWNER.

21. ELECTRICAL CONTRACTOR TO COMPLY WITH NEC SECTION 110-C(A) AND (B) AND ALL TERMINATION CODE REQUIREMENTS.

22. EC TO SIZE ALL WIRING, CIRCUITING, JB'S, BREAKERS, SUB PANELS, ETC., TO PROVIDE A COMPLETE SYSTEM. 23. ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. EC IS RESPONSIBLE TO DETERMINE THE FINAL

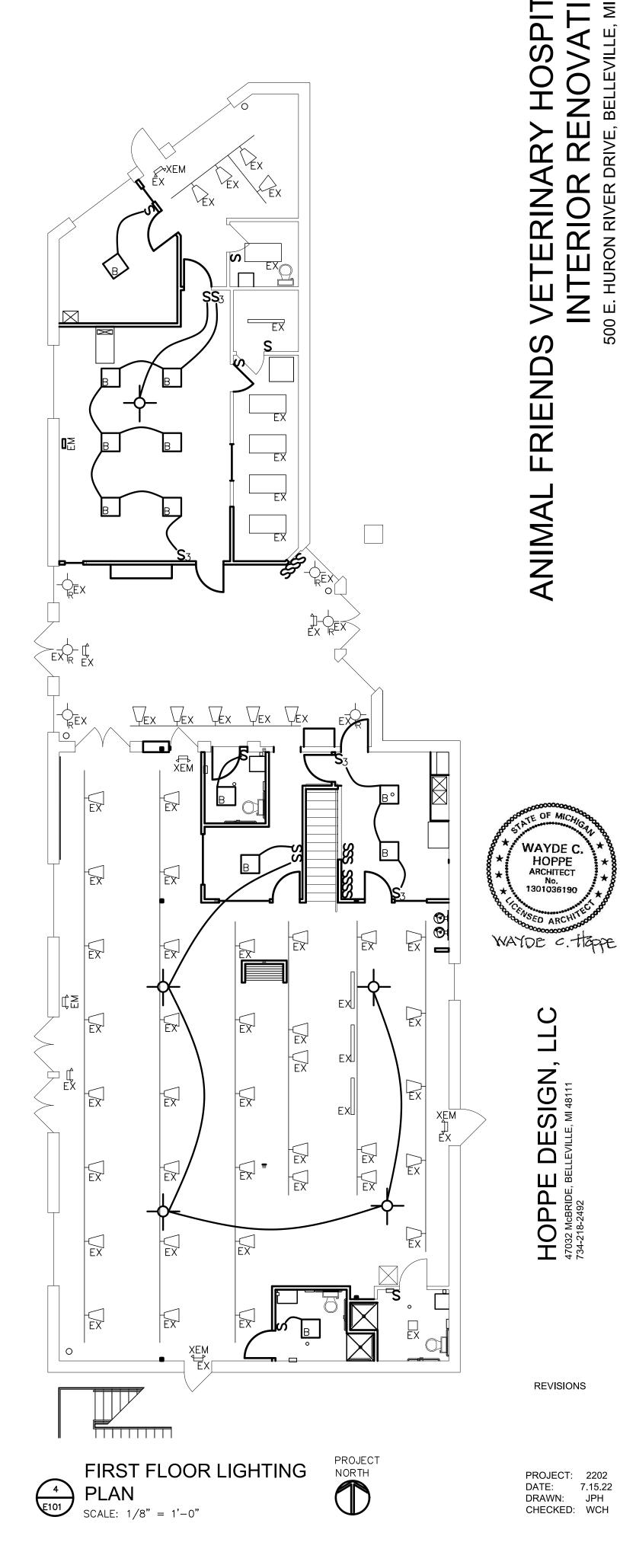
CONDUIT AND WIRING LAYOUT.



NOTE 1. ALL EXISTING AND NEW DUPLEX OUTLETS IN KITCHEN AND

TOILET ROOM TO BE ON GFI PROTECTED CIRCUIT. 2. VERIFY HEIGHT OF ALL TV AND SIGNAGE JUNCTION BOXES AND POWER WITH CLIENT

3. PROVIDE POWER TO EXHAUST FANS

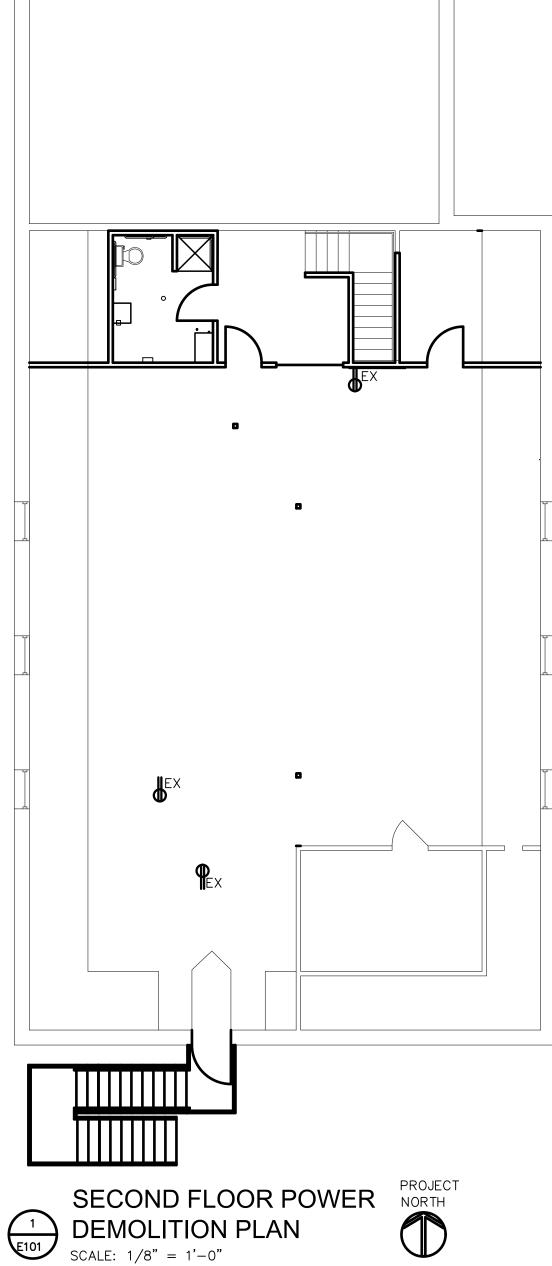




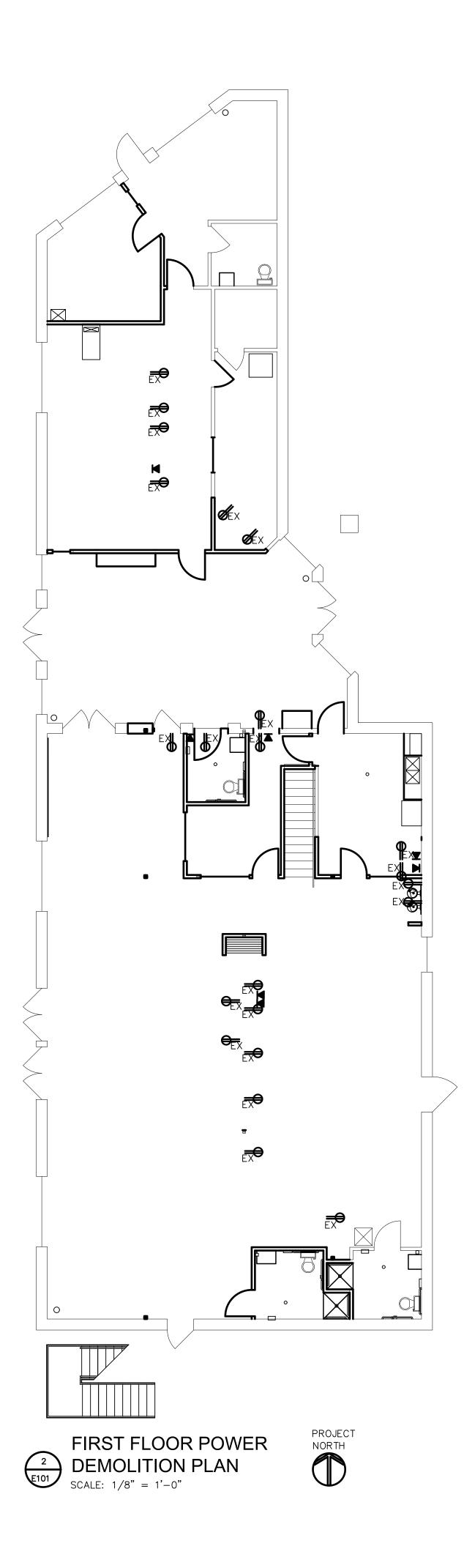
LIGHTING PLAN

VERIFY FIXTURE SELECTIONS WITH OWNER

| LE                 | GEND   |  |   |             |          |       |
|--------------------|--|--|---|-------------|----------|-------|
| S                  | SWITCH ON RHEOSTAT   |  |   |             |          |       |
| S                  | THREE WAY SWITCH   |  |   |             |          |       |
| S <sub>P</sub>     | SWITCH WITH PILOT  |  |   |             |          |       |
| S                  | SWITCH   |  |   |             |          |       |
| <b>©</b> =         | SPECIAL OUTLET   |  |   |             |          |       |
| €=                 | DUPLEX OUTLET  |  |   |             |          |       |
| ●=                 | QUAD OUTLET  |  |   |             |          |       |
| <del>O</del><br>WP | WEATHERPROOF OUTLET  |  |   |             |          |       |
| €=                 | GROUND FAULT<br>INTERUPTER   |  |   |             |          |       |
| ¥                  | TELEPHONE/ COMPUTER  |  |   |             |          |       |
| ۲                  | SMOKE DETECTOR   |  |   |             |          |       |
| M                  | TELEVISION/ CABLE  |  |   |             |          |       |
| -ф-                | CEILING MOUNTED<br>LIGHT FIXTURE   |  |   |             |          |       |
| $-\mathbf{c}$      | CEILING MOUNTED<br>LIGHT FIXTURE RECESSED  |  |   |             |          |       |
| -\$-               | WALL MOUNTED<br>LIGHT FIXTURE  |  |   |             |          |       |
|                    | CEILING FAN/ LIGHT   |  |   |             |          |       |
| ا<br>م             | SCONCE   |  |   |             |          |       |
| Q                  | MOTOR, ONE PHASE   |  |   |             |          |       |
| Ą                  | GROUND MNTD<br>EXT. LIGHTING   |  |   |             |          |       |
|                    | 2×4 LAY IN LIGHT   |  |   |             |          |       |
|                    | JFIXTURE   |  | ₽ |             | \        |       |
| 0                  | PENDANT MOUNTED<br>OVERSIZED FIXTURE   |  |   | <u> </u>    | <u> </u> | [<br> |
| -                  | EXIT SIGN  |  |   | o           |          |       |
| 무                  | EXIT SIGN/<br>EMERGENCY LIGHT  |  |   |             |          |       |
| D<br>PS            | FIRE ALARM<br>PULL STATION   |  |   |             | c        |       |
| Ā                  | HORN/ STROBE   |  |   |             |          |       |
|                    | COMPUTER JACK  |  |   |             |          |       |
| ٩                  | RATE OF RISE<br>HEAT DETECTOR  |  |   |             |          |       |
| C                  | DISCONNECT SWITCH  |  |   |             |          |       |
| D                  | DISCONNECT SWITCH WITH<br>FUSE   |  |   |             |          |       |
| ۵                  | AUDIO JUNCTION BOX-<br>PRE-WIRE PER DIRECTION                                      |  |   |             |          |       |
|                    | OF OWNER   |  | d | EX<br>D     | E        | 3     |
| ELF                |  |  |   |             | T        |       |
| KEY                | NOTES  |  |   | <b>P</b> EX |          |       |
| ST–                | UPANCY SENSOR EQUAL TO WATTSTOPPER<br>200<br>AUST FAN TO BE CONTROLLED WITH LIGHTS |  |   |             |          |       |
| BY<br>3. INS       | OCCUPANCY SENSOR.<br>TALL REMOTE EMERGENCY FIXTURE ABOVE                           |  |   |             |          |       |
| DOC                | DR.  |  |   |             |          |       |



## **VERIFY ALL DIMENSIONS IN FIELD**



#### ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE N.E.C., COUNTY AND LOCAL CODES, ORDINANCES, AND REGULATIONS INCLUDING MIOSHA.

2. COORDINATE ALL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITES BEFORE INSTALLATIONS.

3. THE SECONDARY UNDERGROUND CONDUIT AND WIRE SHALL MEET THE REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY.

4. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A 1/4" DIA. POLYPROPYLENE FISH LINE.

5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED 24" MINIMUM BELOW GRADE (UNLESS OTHERWISE SHOWN ON PLAN).

6. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, INSTALLED WITH WATERTIGHT CONDUIT FITTINGS. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL TRANSITIONS FROM UNDERGROUND TO EXPOSED CONDUIT.

8. ALL THREADED ELECTRICAL EQUIPMENT (CONDUIT, FITTINGS, BOLTS, SCREWS, ETC.) INSTALLED AT EXTERIOR SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

9. ALL WEATHERPROOF (W.P.) DUPLEX RECEPTACLES SHALL BE INSTALLED SUCH THAT COVER DOORS OPEN UPWARD.

10. HAND DIG WHERE REQUIRED TO LOCATE EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW UNDERGROUND CONDUITS FOR POWER AND LIGHTING. 11. PROVIDE A GREEN GROUND CONDUCTOR IN ALL SYSTEM CONDUITS, EXCEPT INSTRUMENT SIGNAL AND ALARM CONDUITS, INCLUDING BRANCH CIRCUIT CONDUITS FOR

LIGHTING AND RECEPTACLES. GROUND CONDUCTOR SIZING SHALL BE PER N.E.C. TABLE 250.122 (MINIMUM) WHERE NOT SIZED ON THE DRAWINGS.

12. WIRE SIZE SHALL BE #12 (MINIMUM) AND CONDUIT SIZE SHALL BE 3/4" (MINIMUM) FOR ALL POWER AND LIGHTING CIRCUITS WHERE NOT SIZED ON THE DRAWINGS. 13. INSTALL SEPARATE GROUNDING CONDUCTOR TO ALL ISOLATED GROUND RECEPTACLES.

14. LOCATE JUNCTION BOXES PER MANUFACTURER'S REQUIREMENTS.

THE FINAL CONDUIT AND WIRING LAYOUT.

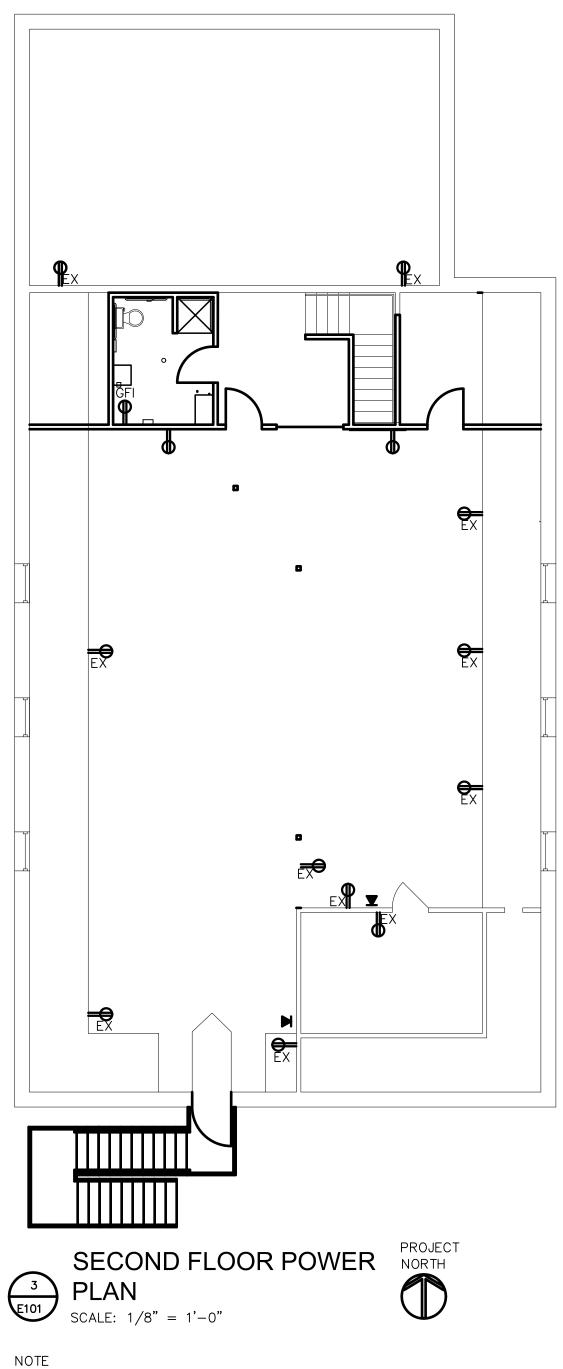
15. EXHAUST FANS TO BE PROVIDED WITH SPEED CONTROL LOCATED ABOVE THE CEILING. PROVIDE A SWITCH WITH A PILOT LIGHT.

16. VERIFY LOCATION OF ALL POWER, PHONE, AND DATA JUNCTION BOXES WITH THE OWNER.

21. ELECTRICAL CONTRACTOR TO COMPLY WITH NEC SECTION 110-C(A) AND (B) AND ALL TERMINATION CODE REQUIREMENTS.

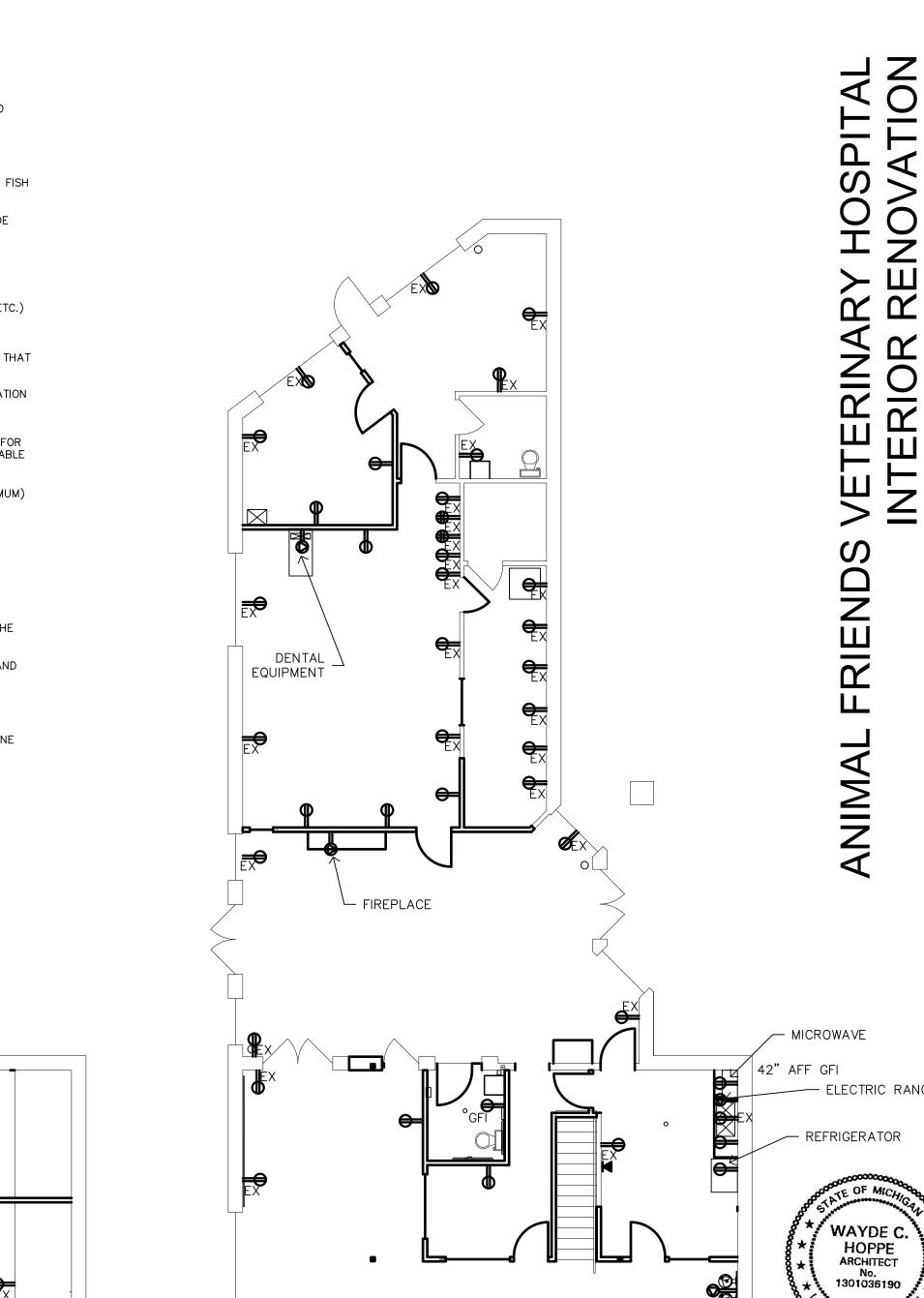
22. EC TO SIZE ALL WIRING, CIRCUITING, JB'S, BREAKERS, SUB PANELS, ETC., TO

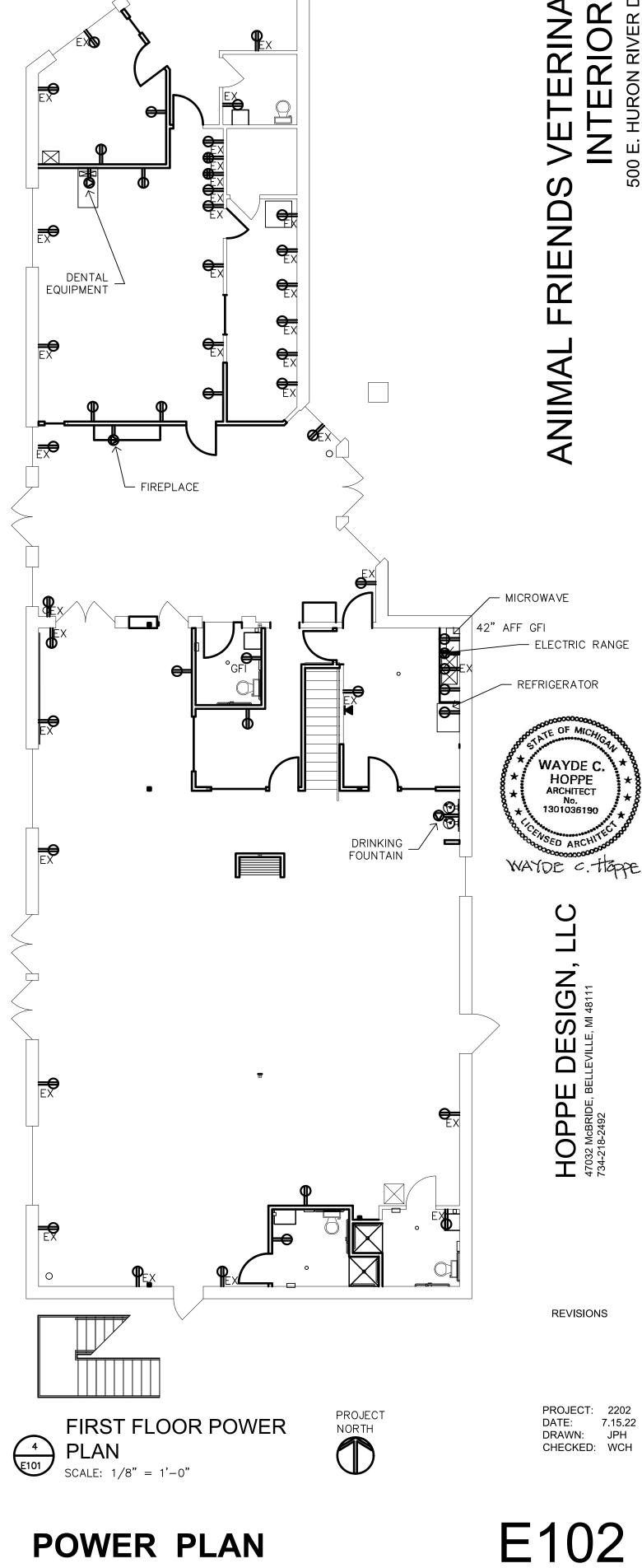
PROVIDE A COMPLETE SYSTEM. 23. ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. EC IS RESPONSIBLE TO DETERMINE



ALL EXISTING AND NEW DUPLEX OUTLETS TO BE ON GFI PROTECTED CIRCUIT.
 VERIFY HEIGHT OF ALL TV AND SIGNAGE JUNCTION BOXES AND

POWER WITH CLIENT 3. PROVIDE POWER TO RTU'S, ROOFTOP COOLER COMPRESSOR, AND EXHAUST FANS





ĹШ

Ш

ന

Ľ

Ŕ

ш

500

C

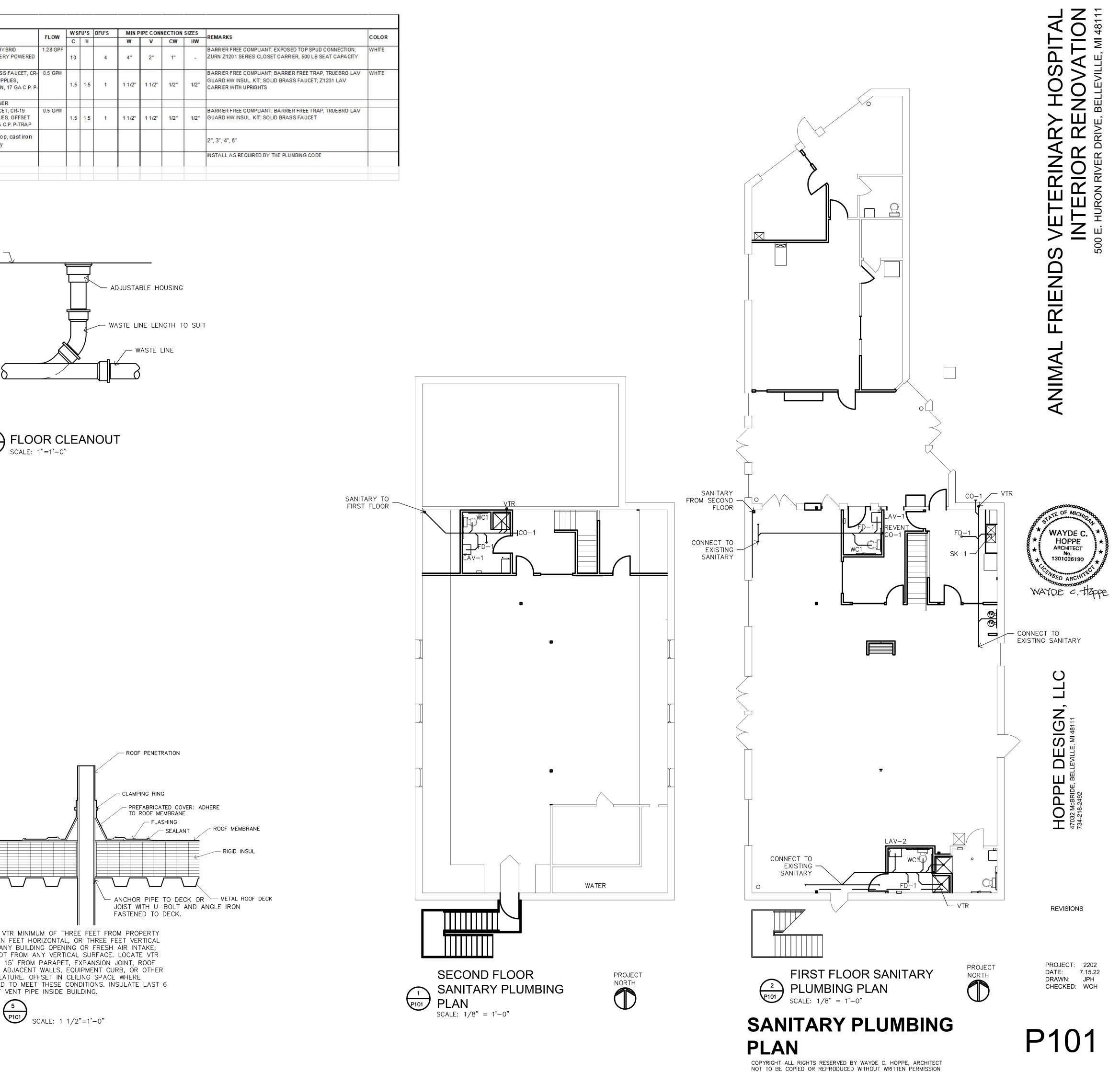
 $\boldsymbol{Z}$ 

Ŷ

#### LEGEND

|     |                      |   | PLU          |  |  |  |  |  |  |  |  |  |
|-----|----------------------|---|--------------|--|--|--|--|--|--|--|--|--|
|     | — <del>\</del>       | GATE VALVE  | TAG          |  |  |  |  |  |  |  |  |  |
|     | —Þxx}—               | GLOBE VALVE   | WC1          |  |  |  |  |  |  |  |  |  |
|     | <u> </u>             | BALL VALVE  | LAV-2        |  |  |  |  |  |  |  |  |  |
|     |                      | CHECK VALVE   |              |  |  |  |  |  |  |  |  |  |
|     | —☆—                  | 2-WAY CONTROL VALVE   | FD-1<br>SK-1 |  |  |  |  |  |  |  |  |  |
|     |                      | 3-WAY CONTROL VALVE   | CO-1         |  |  |  |  |  |  |  |  |  |
|     | &                    | LUBRICATED PLUG VALVE   |              |  |  |  |  |  |  |  |  |  |
|     | <sub>&amp;</sub> MS_ | WHA   |              |  |  |  |  |  |  |  |  |  |
|     | k/                   | CIRCUIT SETTER  |              |  |  |  |  |  |  |  |  |  |
| -   |                      | PRESSURE REDUCING<br>VALVE  |              |  |  |  |  |  |  |  |  |  |
|     | <u>T</u> PT          | PRESSURE TEMP. TEST<br>PORT<br>PRESSURE GAUGE<br>THERMOMETER<br>EXPANSION JOINT W/<br>GUIDES                        |              |  |  |  |  |  |  |  |  |  |
|     | <b>?</b>             |   |              |  |  |  |  |  |  |  |  |  |
|     | <u> </u>             |   |              |  |  |  |  |  |  |  |  |  |
|     | - <del>-</del>       |   |              |  |  |  |  |  |  |  |  |  |
|     | AV                   |   |              |  |  |  |  |  |  |  |  |  |
|     | <del></del>          |   |              |  |  |  |  |  |  |  |  |  |
|     |                      | PIPE FLEXIBLE CONNECTOR   | R            |  |  |  |  |  |  |  |  |  |
|     |                      | CONN. TO EXIST.   |              |  |  |  |  |  |  |  |  |  |
| /   |                      | DUCT FLEXIBLE CONNECTO  | R            |  |  |  |  |  |  |  |  |  |
|     | $- \neg \neg$        | EXIST. FIRE DAMPER<br>NEW FIRE DAMPER<br>EXIST. SMOKE DAMPER<br>NEW SMOKE DAMPER<br>EXIST. COMB. FIRE SMOKE<br>DMPR |              |  |  |  |  |  |  |  |  |  |
|     |                      |   |              |  |  |  |  |  |  |  |  |  |
|     |                      |   |              |  |  |  |  |  |  |  |  |  |
|     |                      |   |              |  |  |  |  |  |  |  |  |  |
|     | O                    |   |              |  |  |  |  |  |  |  |  |  |
| MAR |                      | NEW COMB. FIRE/SMOKE<br>DMPR  |              |  |  |  |  |  |  |  |  |  |
|     |                      | SUPPLY DIFFUSER   |              |  |  |  |  |  |  |  |  |  |
|     | $\square$            | RETURN GRILLE   |              |  |  |  |  |  |  |  |  |  |
|     |                      | EXHAUST GRILLE  |              |  |  |  |  |  |  |  |  |  |

| TAG ITEM                 | MFR                                    | R MODEL NAME AND DESCRIPTION F   | FITTINGS   | FLOW  | WSF   | 0.2   | DFU'S  | MIN P   | MIN PIPE CONNECTION SIZES  |   | SIZES  | REMARKS   | COLOR   |
|--------------------------|--|--|--|---|---|---|--|---|--|---|--|---|---|
|                          | MILK                                   |  |  |   | C H   |   |  | W   | w v  |   | HW   | TREMARKS  |   |
| WATER CLOSET             | KOHLER                                 |  | the statement of the second statement and shares as shown in the statement of the second statement of the second   | 1.28 GPF  |   |   |  |   |  | 4=  |  |   | WHITE   |
|                          |  |  |  |   | 10  |   | 4  | 4   | 2  |   | -  |   |   |
| LAVATORY                 | KOHLER                                 |  |  | 0.5 GPM   |   |   |  |   |  |   |  |   | WHITE   |
|                          |  | WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE   | OFFSET GRID DRAIN, 17 GA C.P. P-   |   | 1.5   | 1.5   | 1  | 1 1/2"  | 1 1/2"   | <mark>1/2</mark> "  | <mark>1/2</mark> "   | CARRIER WITH UPRIGHTS   |   |
| FLOOR DRAIN              | ZURN                                   | Z415   | 5" DIA. N.B. STRAINER  |   |   |   |  | a a   |  |   |  |   | +   |
| SINK                     | ELKAY                                  | LRAD291865   | LKD2437BHC FAUCET, CR-19<br>STOPS AND SUPPLIES, OFFSET   | 0.5 GPM   | 1.5   | 1.5   | 1  | 1 1/2"  | 1 1/2"   | 1/2"  | 1/2"   |   |   |
| 1                        |  |  | GRID DRAIN, 17 GA C.P. P-TRAP  |   | 10.00   |   |  |   |  |   |  |   |   |
| FLOOR CLEAN OUT          | ZURN                                   | ZN1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction | Nickel Bronze top, cast iron   |   |   |   |  | u   |  |   |  | 2", 3", 4", 6"  |   |
|                          |  | shims and rough-in cover   |  |   |   |   |  |   |  |   |  |   |   |
| WATER HAMMER<br>ARRESTOR | ZURN                                   | 1250   | COPPER   |   |   |   |  |   |  |   |  | INSTALL AS REQUIRED BY THE PLUMBING CODE  |   |
| 1                        | FLOOR DRAIN<br>SINK<br>FLOOR CLEAN OUT | LAVATORY KOHLER FLOOR DRAIN ZURN SINK ELKAY FLOOR CLEAN OUT ZURN WATER HAMMER ZURN   | BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.         LAVATORY       KOHLER       K-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE         FLOOR DRAIN       ZURN       Z415         SINK       ELKAY       LRAD291865         FLOOR CLEAN OUT       ZURN       ZN 1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br>shims and rough-in cover         WATER HAMMER       ZURN       1250 | BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.TOUCHLESS BATTERY POWERED<br>FLUSH VALVELAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLIES,<br>OFFSET GRID DRAIN, 17 GA C.P. P-<br>TRAPFLOOR DRAINZURNZ4155" DIA. N.B. STRAINERSINKELKAYLRAD291865LKD2437BHC FAUCET, CR-19<br>STOPS AND SUPPLIES, OFFSET<br>GRID DRAIN, 17 GA C.P. P-TRAPFLOOR CLEAN OUTZURNZN 1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br>shims and rough-in coverNickel Bronze top, cast iron<br>body | BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.TOUCHLESS BATTERY POWERED<br>FLUSH VALVELAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR.<br>19 STOPS, AND SUPPLES,<br>OFFSET GRID DRAIN, 17 GA C.P. P-<br>TRAP0.5 GPMFLOOR DRAINZURNZ4155" DIA. N.B. STRAINER0.5 GPMSINKELKAYLRAD291865LKD2437BHC FAUCET, CR-19<br>STOPS AND SUPPLIES, OFFSET<br>GRID DRAIN, 17 GA C.P. P-TRAP0.5 GPMFLOOR CLEAN OUTZURNZN 1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br>shims and rough-in coverNickel Bronze top, cast iron<br>body | WATER CLOSETKOHLERK-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.K-7531 EXPOSED HYBRD<br>TOUCHLESS BATTERY POWERED<br>FLUSH VALVE1.28 GPFLAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLIES,<br>OFFSET GRID DRAIN, 17 GA C.P. P-<br>TRAP0.5 GPM<br>1.5FLOOR DRAINZURNZ415S" DIA. N.B. STRAINER1.5SINKELKAYLRAD291865LKD2437BHC FAUCET, CR-19<br>STOPS AND SUPPLIES, OFFSET<br>GRID DRAIN, 17 GA C.P. P-TRAP0.5 GPM<br>1.5FLOOR CLEAN OUTZURNZN1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br>shims and rough-in coverNickel Bronze top, cast iron<br>bodyNickel Bronze top, cast iron<br>body | WATER CLOSETKOHLERK-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.K-7531 EXPOSED HYBRID<br>TOUCHLESS BATTERY POWERED1.28 GPF<br>10LAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLIES,<br>OFFSET GRID DRAIN, 17 GA C.P. P-<br>TRAP0.5 GPM<br>1.51.5FLOOR DRAINZURNZ4155" DIA. N.B. STRAINERSINKELKAYLRAD291865LKD2437BHC FAUCET, CR-19<br>STOPS AND SUPPLIES, OFFSET<br>GRID DRAIN, 17 GA C.P. P-TRAP0.5 GPM<br>1.51.5FLOOR CLEAN OUTZURNZN 1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br>shims and rough-in coverNickel Bronze top, cast iron<br>bodyNickel Bronze top, cast iron<br>bodyNickel Bronze top, cast iron<br>body | WATER CLOSETKOHLERK-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.K-7531 EXPOSED HYBRID<br>TOUCHLESS BATTERY POWERED<br>FLUSH VALVE1.28 GPF<br>10104LAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLIES,<br>OFFSET GRID DRAIN, 17 GA C.P. P-<br>TRAP0.5 GPM<br>1.51.51.51FLOOR DRAINZURNZ4 155" DIA. N.B. STRAINERSINKELKAYLRAD29 1865LKD2 168650.5 GPM<br>STOPS AND SUPPLIES, OFFSET<br>GRID DRAIN, 17 GA C.P. P-<br>TRAP0.5 GPM<br>1.51.51.51FLOOR CLEAN OUTZURNZUN 41400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br>shims and rough-in coverNickel Bronze top, cast iron<br>bodyNickel Bronze top, cast iron<br>body | WATER CLOSETKOHLERK-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.K-7531 EXPOSED HYBRID<br>TOUCHLESS BATTERY POWERED1.28 GPF<br>10144"LAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLES,<br>OFFSET GRID DRAIN, 17 GA C.P. P-0.5 GPM<br>1.51.5111/2"FLOOR DRAINZURNZ4155" DIA. N.B. STRAINER1.51.5111/2"FLOOR CLEAN OUTLKAYLRAD291865LKD2437BHC FAUCET, CR-19<br>STOPS AND SUPPLES, OFFSET<br>GRID DRAIN, 17 GA C.P. P-TRAP0.5 GPM<br>1.51.5111/2"FLOOR CLEAN OUTZURNZUN1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, till correction<br>shims and rough-in coverNickel Bronze top, cast iron<br>bodyNickel Bronze top, cast iron<br>body11WATER HAMMERZURN1250COPPER </td <td>WATER CLOSET       KOHLER       K-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br/>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br/>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.       K-7531 EXPOSED HYBRID<br/>TOUCHLESS BATTERY POWERED       1.28 GPF       10       4       4"       2"         LAVATORY       KOHLER       K-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br/>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE       K-13460 TOUCHLESS FAUCET, CR-<br/>19 STOPS, AND SUPPLES,<br/>OFFSET GRID DRAIN, 17 GA C.P. P.       0.5 GPM       1.5       1       11/2"       11/2"       11/2"         FLOOR DRAIN       ZURN       Z415       5" DIA. N.B. STRAINER       0.5 GPM       1.5       1       11/2"       11/2"       11/2"         FLOOR CLEAN OUT       ZURN       ZN1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br/>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br/>shims and rough-in cover       Nickel Bronze top, cast iron<br/>body       0.5 GPM       1.5       1       11/2"       11/2"</td> <td>WATER CLOSET       KOHLER       K-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br/>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br/>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.       K-7531 EXPOSED HYBRID<br/>TOUCHLESS BATTERY POWERED<br/>FLUSH VALVE       1.28 GPF       10       4       4"       2"       1"         LAVATORY       KOHLER       K-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br/>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE       K-13460 TOUCHLESS FAUCET, CR-<br/>19 STOPS, AND SUPPLES,<br/>OFFSET GRID DRAIN, 17 GA C.P. P-<br/>TRAP       0.5 GPM       1.5       1       11/2"</td> <td>WATER CLOSETKOHLERK-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br/>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br/>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.K-7531 EXPOSED HYBRD<br/>TOUCHLESS BATTERY POWERED<br/>FLUSH VALVE1.28 GPF<br/>101.444"2"1"-LAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br/>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR-<br/>19 STOPS, AND SUPPLIES,<br/>OFFSET GRID DRAIN, 17 GA C.P. P.0.5 GPM<br/>1.51.5111/2"11/2"11/2"1/2"FLOOR DRAINZURNZ4155" DIA. N.B. STRAINER5" DIA. N.B. STRAINER5" DIA. N.B. STRAINER5" DIA. N.B. STRAINER5.5 GPM<br/>1.51.5111/2"&lt;</td> <td>WATER CLOSET       KOHLER       K-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br/>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WITHE OPEN FRONT<br/>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.       K-7531 EXPOSED HYBRD<br/>TOUCHLESS BATTERY POWERED       1.0       4       4"       2"       1"       -       BARRER FREE COMPLIANT; EXPOSED TO P SPUD CONNECTION;<br/>ZURN Z1201 SERIES CLOSET CARRER, 500 LB SEAT CAPACITY         LAVATORY       KOHLER       KOHLER       K.1721 WALL HUNG SINK WITH GRD DRAIN, 17 GAD CP.P.<br/>TRAP       0.5 GPM       1.5       1.5       1       11/2"       11/2"       11/2"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV         FLOOR DRAIN       ZURN       Z15       STOPS, AND SUPPLES,<br/>OFFSET GRD DRAIN, 17 GA C.P. P.<br/>TRAP       0.5 GPM       1.5       1.5       1       11/2"       11/2"       11/2"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV         SINK       ELKAY       LRAD291865       STOLA. N.B. STRAINER       0.5 GPM       1.5       1.5       1       11/2"       11/2"       12"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV         SINK       ELKAY       LRAD291865       KL02437BHC FAUCET, CR-19<br/>STOPS AND SUPPLES, OFFSET<br/>GRID DRAIN, 17 GA C.P. P.TTRAP       0.5 GPM       1.5       1       11/2"       11/2"       12"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV       GUARD HW INSUL. KIT; SOLD BRASS FAUCET       &lt;</td> | WATER CLOSET       KOHLER       K-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.       K-7531 EXPOSED HYBRID<br>TOUCHLESS BATTERY POWERED       1.28 GPF       10       4       4"       2"         LAVATORY       KOHLER       K-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE       K-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLES,<br>OFFSET GRID DRAIN, 17 GA C.P. P.       0.5 GPM       1.5       1       11/2"       11/2"       11/2"         FLOOR DRAIN       ZURN       Z415       5" DIA. N.B. STRAINER       0.5 GPM       1.5       1       11/2"       11/2"       11/2"         FLOOR CLEAN OUT       ZURN       ZN1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze<br>adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction<br>shims and rough-in cover       Nickel Bronze top, cast iron<br>body       0.5 GPM       1.5       1       11/2"       11/2" | WATER CLOSET       KOHLER       K-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.       K-7531 EXPOSED HYBRID<br>TOUCHLESS BATTERY POWERED<br>FLUSH VALVE       1.28 GPF       10       4       4"       2"       1"         LAVATORY       KOHLER       K-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE       K-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLES,<br>OFFSET GRID DRAIN, 17 GA C.P. P-<br>TRAP       0.5 GPM       1.5       1       11/2" | WATER CLOSETKOHLERK-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.K-7531 EXPOSED HYBRD<br>TOUCHLESS BATTERY POWERED<br>FLUSH VALVE1.28 GPF<br>101.444"2"1"-LAVATORYKOHLERK-1721 WALL HUNG SINK WITH GRID DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP<br>WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVEK-13460 TOUCHLESS FAUCET, CR-<br>19 STOPS, AND SUPPLIES,<br>OFFSET GRID DRAIN, 17 GA C.P. P.0.5 GPM<br>1.51.5111/2"11/2"11/2"1/2"FLOOR DRAINZURNZ4155" DIA. N.B. STRAINER5" DIA. N.B. STRAINER5" DIA. N.B. STRAINER5" DIA. N.B. STRAINER5.5 GPM<br>1.51.5111/2"< | WATER CLOSET       KOHLER       K-84325-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED<br>BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WITHE OPEN FRONT<br>TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.       K-7531 EXPOSED HYBRD<br>TOUCHLESS BATTERY POWERED       1.0       4       4"       2"       1"       -       BARRER FREE COMPLIANT; EXPOSED TO P SPUD CONNECTION;<br>ZURN Z1201 SERIES CLOSET CARRER, 500 LB SEAT CAPACITY         LAVATORY       KOHLER       KOHLER       K.1721 WALL HUNG SINK WITH GRD DRAIN, 17 GAD CP.P.<br>TRAP       0.5 GPM       1.5       1.5       1       11/2"       11/2"       11/2"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV         FLOOR DRAIN       ZURN       Z15       STOPS, AND SUPPLES,<br>OFFSET GRD DRAIN, 17 GA C.P. P.<br>TRAP       0.5 GPM       1.5       1.5       1       11/2"       11/2"       11/2"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV         SINK       ELKAY       LRAD291865       STOLA. N.B. STRAINER       0.5 GPM       1.5       1.5       1       11/2"       11/2"       12"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV         SINK       ELKAY       LRAD291865       KL02437BHC FAUCET, CR-19<br>STOPS AND SUPPLES, OFFSET<br>GRID DRAIN, 17 GA C.P. P.TTRAP       0.5 GPM       1.5       1       11/2"       11/2"       12"       BARRER FREE COMPLIANT; BARRER FREE TRAP, TRUEBRO LAV       GUARD HW INSUL. KIT; SOLD BRASS FAUCET       < |







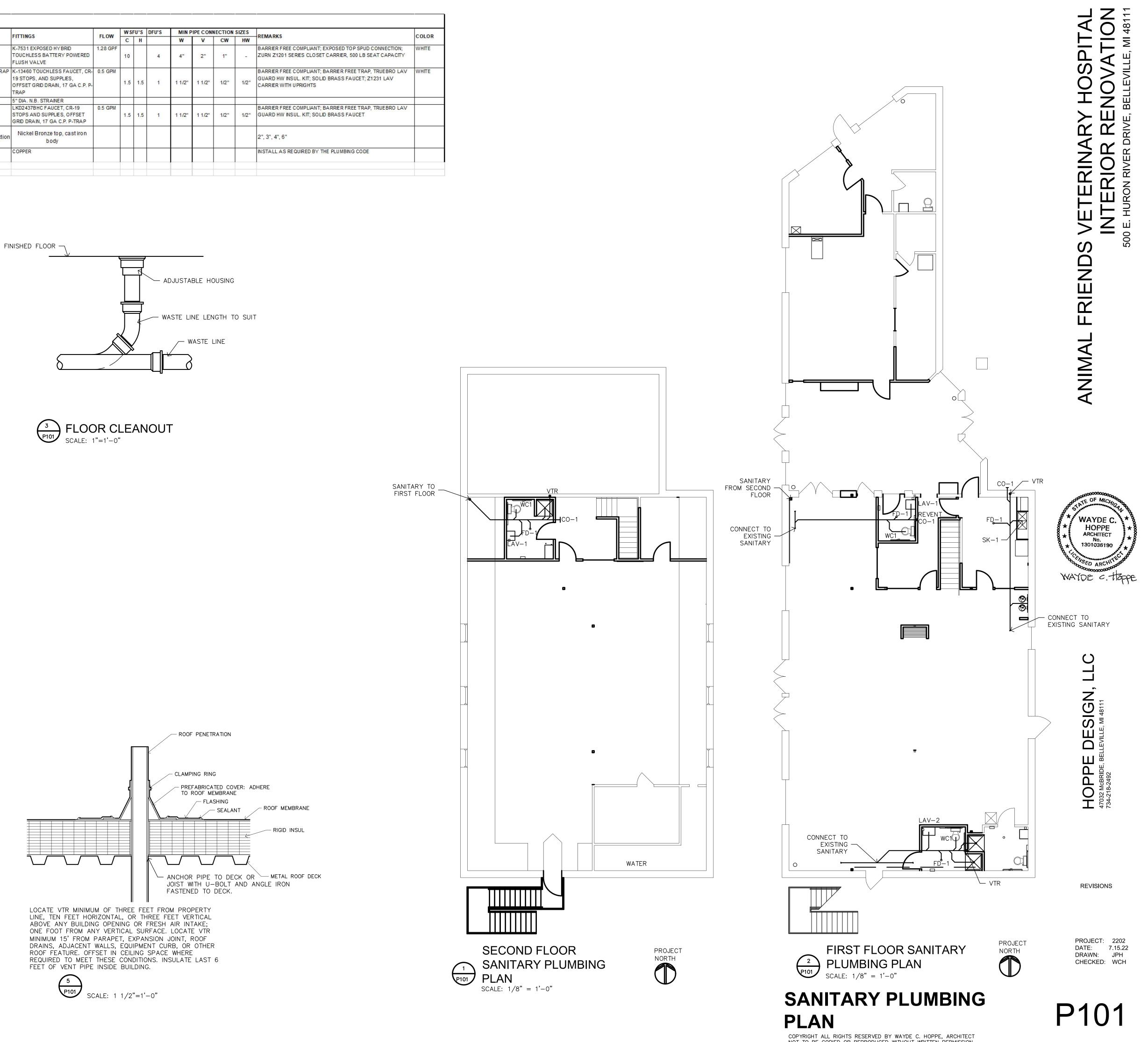
- 1. PLUMBING CONTRACTOR RESPONSIBLE TO SIZE ALL WASTE, SUPPLY, VENTS, DRAINS, TRAPS, ETC TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE
- WITH ALL CODES AND REGULATIONS. 2. THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF PIPING.
- NO PLUMBING PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS.
   PLUMBING CONTRACTOR SHALL CONTACT THE SERVICE PROVIDER AND ARRANGE
- FOR NEW GAS SERVICE CONNECTION. 5. PLUMBING CONTRACTOR SHALL CONTACT THE MUNICIPAL AUTHORITY TO
- ARRANGE FOR NEW WATER SERVICE CONNECTION. 6. PROVIDE CLEANOUTS AT THE BASE OF ALL BASE STACKS, CHANGES IN
- DIRECTION GREATER THAN 45 DEGREES, AND 50 FEET ON CENTER FOR STRAIGHT RUNS.
- ALL PLUMBING SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.
   PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
   WRAP ALL WATER PIPING WITH INSULATED PIPE WRAP.
- 10. ALL LAMBS TONGUE DISCHARGE TO BE 36" ABOVE ADJACENT GRADE. 11. PLUMBING CONTRACTOR TO VERIFY MICHIGAN PLUMBING CODE AND COUNTY

#### HEALTH DEPARTMENT REQUIREMENT FOR BACKFLOW PREVENTERS, CHECK VALVES, VACUUM BREAKERS, AND INDIRECT WASTEWATER CONNECTIONS. PLUMBING PIPING REQUIREMENTS

|                          | HW              | CW              | WASTE             |
|--------------------------|-----------------|-----------------|-------------------|
| WATER CLOSET TANK        | _               | $\frac{1}{2}$ " | 3"                |
| WATER CLOSET FLUSH VALVE | _               | ī"              | 3"-4"             |
| URINALS                  | _               | <u>3</u> "<br>4 | 2"                |
| SERVICE SINK             | <u>3</u> "<br>4 | <u>3</u> "      | 3"                |
| ELECTRIC WATER COOLER    | _               | $\frac{1}{2}$   | 1 <u>1</u> "      |
| WASH BASIN               | <u>3</u> "<br>4 | <u>3</u> "      | $1 \frac{1}{2}$ " |
| SINKS/LAVATORIES         | 1"<br>2         | <u>1</u> "<br>2 | 1 <del>]</del> "  |
| SHOWER STALLS            | <u>3</u> "      | -3"<br>-4       | 3"                |
| FLOOR DRAIN              | ·               | •               | 3"                |
|                          |                 |                 |                   |

NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.

## **VERIFY ALL DIMENSIONS IN FIELD**





#### LEGEND

| —————————————————————————————————————— | GATE VALVE                        |
|--|-----------------------------------|
|  | GLOBE VALVE                       |
| δ                                      | BALL VALVE                        |
|  | CHECK VALVE                       |
| —ÿ—                                    | 2-WAY CONTROL VALVE               |
| <u> </u>                               | 3-WAY CONTROL VALVE               |
| \$                                     | LUBRICATED PLUG VALVE             |
| <sub>&amp;</sub> MS_                   | BAL. BALL VALVE W/<br>MEMORY STOP |
| ₩                                      | CIRCUIT SETTER                    |
|  | PRESSURE REDUCING<br>VALVE        |
| <u>T</u> PT                            | PRESSURE TEMP. TEST<br>PORT       |
| Ŷ                                      | PRESSURE GAUGE                    |
| Q                                      | THERMOMETER                       |
|  | EXPANSION JOINT W/<br>GUIDES      |
| AV                                     | AIR VENT                          |
| <del></del>                            | Y–STRAINER                        |
| <u> </u>                               | PIPE FLEXIBLE CONNECTOR           |
|  | CONN. TO EXIST.                   |
|  | DUCT FLEXIBLE CONNECTOR           |
| $- \bigtriangledown$                   | EXIST. FIRE DAMPER                |
|  | NEW FIRE DAMPER                   |
| ∽                                      | EXIST. SMOKE DAMPER               |
| <b>4</b> •                             | NEW SMOKE DAMPER                  |
| O                                      | EXIST. COMB. FIRE SMOKE<br>DMPR   |
| •                                      | NEW COMB. FIRE/SMOKE<br>DMPR      |
| MARK<br>CFM                            | SUPPLY DIFFUSER                   |
|  | RETURN GRILLE                     |

EXHAUST GRILLE 

#### PLUMBING NOTES

- 1. PLUMBING CONTRACTOR RESPONSIBLE TO SIZE ALL WASTE, SUPPLY, VENTS, DRAINS, TRAPS, ETC TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE
- WITH ALL CODES AND REGULATIONS. 2. THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF PIPING.
- NO PLUMBING PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS.
   PLUMBING CONTRACTOR SHALL CONTACT THE SERVICE PROVIDER AND ARRANGE FOR NEW GAS SERVICE CONNECTION.
- 5. PLUMBING CONTRACTOR SHALL CONTACT THE MUNICIPAL AUTHORITY TO ARRANGE FOR NEW WATER SERVICE CONNECTION. 6. PROVIDE CLEANOUTS AT THE BASE OF ALL BASE STACKS, CHANGES IN
- DIRECTION GREATER THAN 45 DEGREES, AND 50 FEET ON CENTER FOR STRAIGHT RUNS.
- ALL PLUMBING SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.
   PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
   WRAP ALL WATER PIPING WITH INSULATED PIPE WRAP.
- 10. ALL LAMBS TONGUE DISCHARGE TO BE 36" ABOVE ADJACENT GRADE.
- 11. PLUMBING CONTRACTOR TO VERIFY MICHIGAN PLUMBING CODE AND COUNTY HEALTH DEPARTMENT REQUIREMENT FOR BACKFLOW PREVENTERS, CHECK VALVES, VACUUM BREAKERS, AND INDIRECT WASTEWATER CONNECTIONS.

#### PLUMBING PIPING REQUIREMENTS

|                          | HW              | CW              | WASTE        |
|--------------------------|-----------------|-----------------|--------------|
| WATER CLOSET TANK        | _               | $\frac{1}{2}$ " | 3"           |
| WATER CLOSET FLUSH VALVE | _               | 1"              | 3"-4"        |
| URINALS                  | _               | <u>3</u> "<br>4 | 2"           |
| SERVICE SINK             | <u>3</u> "<br>4 | <u>3</u> "<br>4 | 3"           |
| ELECTRIC WATER COOLER    | _               | $\frac{1}{2}$ " | 1 <u>1</u> " |
| WASH BASIN               | <u>3</u> "<br>4 | <u>3</u> "<br>4 | 1 <u>1</u> " |
| SINKS/LAVATORIES         | <u>1</u> "      | <u>1</u> "      | 1 <u>1</u> " |
| SHOWER STALLS            | <u>3</u> "<br>4 | <u>3</u> "<br>4 | 3"           |
| FLOOR DRAIN              |                 |                 | 3"           |

NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.

## VERIFY ALL DIMENSIONS IN FIELD

