NEWTON COUNTY BOARD OF COMMISSIONERS
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION

2021-036.GAH
3705 IN SR 16
Brook, IN 47922

BID PACKAGE 4

01.08.2026

2021-036.GAH

County Commissioners:

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District 2: Abbey Rossiter
District 3: Robert Churchill

County Council:

District 1: Tom Vanvleet
District 2: Scott Carlson
District 3: Matthew Walsh
District 4: David Atkinson
At Large: Heidi McCord
At Large: Mick Vanderwall
At Large: Robert Goncy

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General Notes

Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations from the requirements of the Contract Documents, or waive the Contractor's responsibility to alert the Architect to errors or omissions contained therein.

Each Contractor shall verify in the field all existing applicable conditions and dimensions shown on the Drawings and as pertinent to the intent of these Drawings. Any discrepancy discovered shall be brought to the attention of the Architect prior to the commencement of any Work affected by, or related to, such discrepancy.

Each Contractor shall be responsible for all costs associated with, or caused by failure to comply with requirement.

Each Contractor shall review in advance all portions of the Work to verify that the Work will not prohibit completion of the Project as intended in these Contract Documents. Any questions shall be promptly referred to the Architect for resolution.

Each Contractor shall refer to the Project Manual for cleaning and disposal requirements.

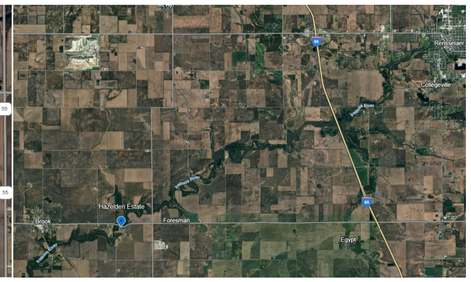
Each Contractor shall be responsible for the protection of all surfaces and finishes at interior and exterior of building. Damaged surfaces and finishes resulting from the performance of the Work shall be repaired at no cost to the Owner by the responsible Contractor to match existing to the satisfaction of the Owner.

Each Contractor shall coordinate respective cutting and patching Work with the other Prime Contracts.

Each Contractor shall become completely familiar with all aspects of the Work, even those areas designated to be provided by others. This familiarization includes full and complete understanding of the Work described on all Sheets of the Drawings and in all Sections of the Project Manual. Failure by the Contractor to become completely familiar and cognizant of all aspects of the Work shall not relieve the Contractor of the responsibility to provide materials, assemblies, or services indicated in the Contract Documents.

Vicinity Map

Thoroughfare Map



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415 Massachusetts Ave., Indianapolis, IN 46204
731 Brent St. #203, Louisville, KY 40204

REITANO DESIGN GROUP

Lynch, Harrison & Brumleve, Inc.

BID PACKAGE SCHEDULE

BID PACKAGE	PACKAGE DESCRIPTION	ISSUE DATE
1	GARDEN RESTORATION	PREVIOUSLY AWARDED
2	UTILITY SITE PREPARATION	11.21.2025
3	HOUSE RESTORATION	11.21.2025
4	CARRIAGE HOUSE RENOVATION	11.21.2025
5	SUPPLEMENTAL SITE WORK	11.21.2025

NEWTON COUNTY BOARD OF COMMISSIONERS
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION

G-000.4

CODE SUMMARY

APPLICABLE CODE: 2014 Indiana Building Code
*Code referenced unless noted otherwise

SCOPE OF WORK: Project description

APPLICABILITY OF CODES TO THE PROJECT:

OCCUPANCY SEPARATIONS: Educational use and assembly areas associated with the E Occupancy
- E Occupancy [305.1, 303.1.3]

CONSTRUCTION TYPE: Type IIIB Construction existing and addition

ALLOWABLE AREA: Tabular: sq. ft. [Table 503]
Frontage: + sq. ft. [506.2]
Allowable: sq. ft.

ALLOWABLE HEIGHT:

FIRE BARRIER:

OCCUPANCY SEPARATIONS:

ELEVATOR HOISTWAY AND MACHINE ROOM:

FLOOR OPENINGS AND PENETRATIONS, AND SHAFTS:

INCIDENTAL USE SEPARATION:

FIRE DAMPERS: Fire dampers are required at duct penetrations of fire-rated shafts and at duct penetrations of fire barriers required to have more than 1-hour fire rating. [717.5]

OCCUPANT LOAD FACTORS: Classrooms: 20 sq. ft./occ.
Offices: 100 sq. ft./occ.
Unconcentrated assembly use: 15 sq. ft./occ. [Table 1004.1.2]

CORRIDORS:

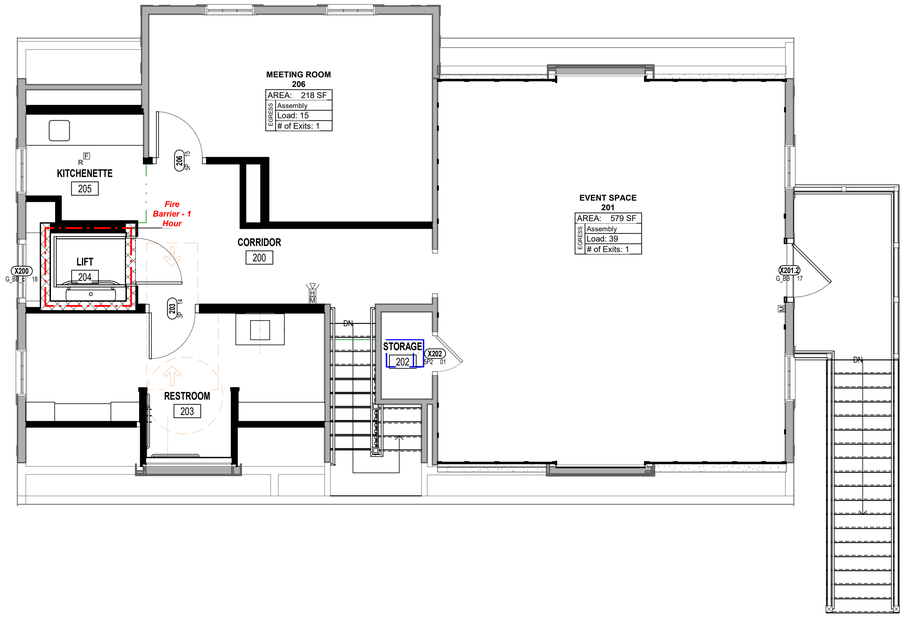
DOOR SWING: Exit doors must swing in the direction of egress when serving 50 or more occupants. Exit doors are required to be side - hinged swinging type, except for office or storage areas with an occupant load of less than 10. [1008.1.2]

PANIC HARDWARE: Panic hardware is required on latching doors serving rooms or spaces with an occupant load of 50 or more in an A or E occupancy. [1008.1.10]

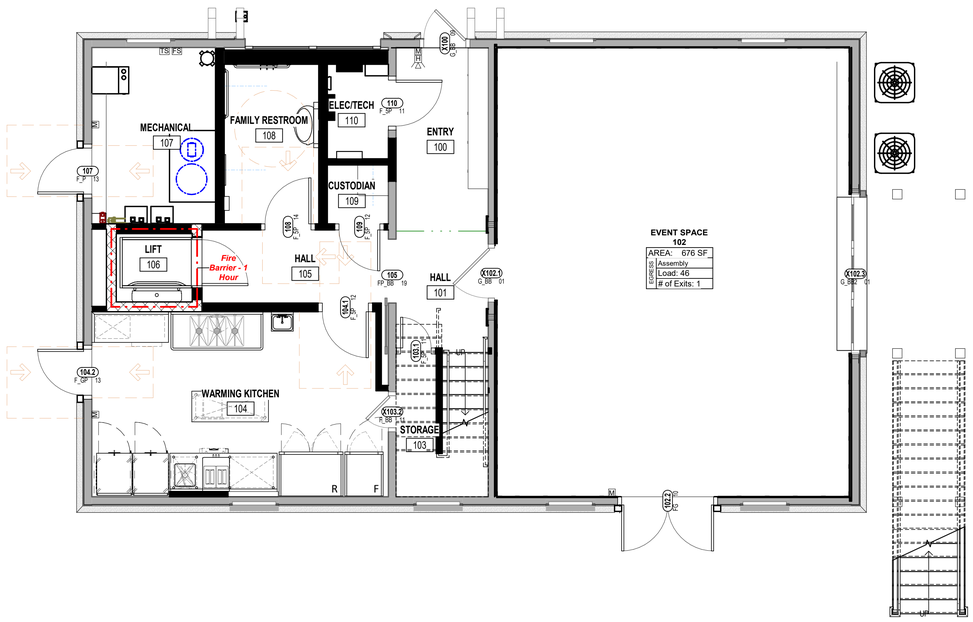
EMERGENCY AND EGRESS LIGHTING: Exit signs required to indicate the direction of egress travel for rooms and areas that require more than one exit access. [1011.1]
Emergency lighting is required in all corridors, rooms, spaces that require more than one means of egress or exit. [1006.3]

MEANS OF EGRESS:

INTERIOR FINISHES:



2C **SECOND FLOOR PLAN**
1/4" = 1'-0"



2A **FIRST FLOOR PLAN**
1/4" = 1'-0"

LIFE SAFETY PLAN LEGEND

Room name
101
AREA: 150 SF
EGRESS
Occupancy
Load: ##
# of Exits: #

EGRESS INFORMATION TAG

LOCK BOX

ANNUNCIATOR PANEL

FIRE HOSE CABINET

FIRE EXTINGUISHER (NOT REQUIRED)

NON-RATED INCIDENTAL-USE WALL [508.2.2.1]

1-HOUR FB RATED WALL

2-HOUR FB RATED WALL

4-HOUR FB RATED WALL

1-HOUR FIRE PARTITION [419, 1017.1]

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced MEW TM

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STATE OF
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ARCHITECT

These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Architect.

#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

CARRIAGE HOUSE FIRE AND LIFE SAFETY PLAN

G-100.4

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NEWTON COUNTY BOARD OF COMMISSIONERS
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

01.08.2026

2021-036.GAH

General Notes

1. Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations from the requirements of the Contract Documents, or waive the Contractor's responsibility to alert the Architect to errors or omissions contained therein.
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2021-036.GAH

3705 IN-16
Brook, IN 47922

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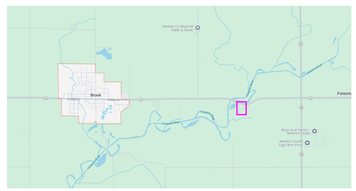

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Sarah K Hempstead

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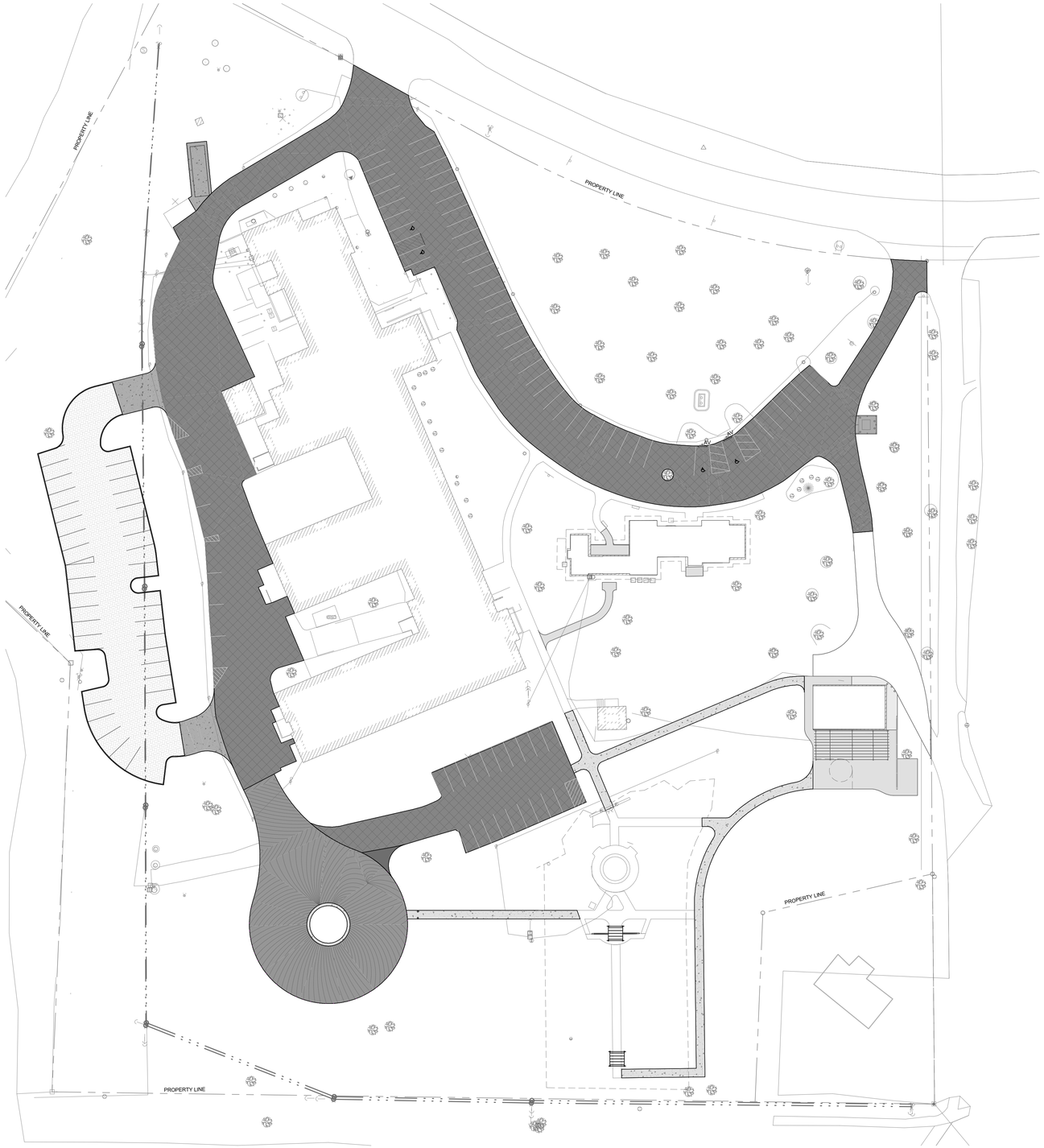
NEWTON COUNTY BOARD OF COMMISSIONERS
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

COVER SHEET

CG-000.4



1 **OVERALL SITE LAYOUT PLAN**
1" = 40'-0"

GENERAL LAYOUT NOTES

1. REFERENCE C-001 FOR GENERAL LAYOUT PLAN NOTES.
2. NORTHING AND EASTING COORDINATES ARE STATE PLANE COORDINATES BASED ON A TOPOGRAPHIC SURVEY. REFER TO SURVEY DRAWINGS FOR HORIZONTAL CONTROL POINT DATA.
3. ALL EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.

SUPPLEMENTAL SITE WORK LAYOUT LEGEND

	HEAVY DUTY ASPHALT. SEE DETAIL 1C/CL501.5 AND SPECS
	STANDARD DUTY CONCRETE. SEE DETAIL 1A/CL501.5 AND SPECS
	HEAVY DUTY CONCRETE. SEE DETAIL 1B/CL501.5 AND SPECS
	SEAL COAT. SEE SPECS
	PERMEABLE PAVERS. SEE DETAIL 5A/CL501.5 AND SPECS

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced SG/CF

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3705 IN-16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - COMPOSITE SITE LAYOUT

COMPOSITE SITE LAYOUT

G-001

General Site Notes

1. See Survey sheets for all topographic and survey information Schmidt Associates, Inc. claims no responsibility for the accuracy of the information provided in these surveys.
2. All damages to existing improvements, excavation and/or removal of any and all existing improvements during construction shall be kept to a minimum. Any existing improvements damaged during construction shall be restored, reconstructed or replaced by the Contractor at his expense.
3. It is the responsibility of the Contractor to remove all mud, dirt, gravel, and any other materials trucked onto any public or private streets or sidewalks.
4. Provide smooth transition from new areas to existing features as necessary.
5. The Contractor shall submit samples of materials and finishes to the Landscape Architect/Engineer for approval prior to ordering and installation as outlined in the specifications.
6. All areas where proposed asphalt pavement meets the existing pavement, the existing pavement edge shall be properly sealed with a tack coat material.

General Erosion Control Notes

1. All erosion and sediment control practices shall be in accordance with the Indiana Handbook for Erosion Control in Developing Areas from the Division of Soil Conservation, Indiana Department of Natural Resources.
2. A copy of this Erosion and Sediment Control Plan and the Erosion and Sediment Control Report shall be available at the Project Site throughout the entire construction period.
3. The Contractor shall control waste, garbage, debris, wastewater, and other substances on the site so they will not be transported from the site by the action of wind, storm water runoff, or other forces. Proper disposal or management of all wastes and unused building material appropriate to the nature of the waste or material is required.
4. Public or private roadways shall be kept clear of accumulated sediment. All sediment that is cleared must be returned to the likely point of origin or other suitable location. Clearing of large amounts of sediment shall not include flushing the area with water.
5. Minimize the exposure of bare earth by limiting the work area to that necessary to perform the Work, and by proper scheduling of manpower and equipment.
6. All erosion and sediment control measures shall be inspected, cleaned, and maintained following each storm event.
7. Wherever possible, maintain existing vegetative cover. Use non-vegetative material including mulch, erosion blankets, or stone to control erosion from disturbed areas.
8. All erosion and sediment control measures shown shall be maintained throughout construction. An installed practice shall not be removed until the area of the Work contributing runoff to the practice has been completed and stabilized, or until sufficient additional measures have been installed to provide proper protection to the site and surrounding area from erosion and sedimentation.

General Site Demolition Notes

1. Removal of existing concrete and asphalt pavement indicated on plans shall include all aggregate base and Subgrade materials. Sawcut all existing paved areas to be removed. All cuts shall be clean, neat and true to line. Where plant material is proposed to replace removed concrete and asphalt, Contractor shall remove all non-organic or toxic matter that would interfere with proposed plant material. Contractor shall dispose of excavated material off-site at approved disposal sites only, unless shown otherwise.
2. Demolish and completely remove from site, existing underground utilities indicated to be removed. Coordinate with Utility Companies and Owner for shut-off services, if lines are active. Any Damage to existing utility lines shall be repaired at the expense of the contractor.
3. All underground utilities or structures in proposed pavement or building areas requiring removal shall be backfilled completely with approved engineered granular material suitable to the Architect.
4. Refer to all other series drawings for site demolition work to be performed by other contractors.
5. Contractor shall be responsible for the protection of existing trees and shrubs designated to remain within the Limits of Construction to the extent of the drip lines. Existing trees shall be fenced off and no materials or heavy equipment shall encroach fenced areas during demolition and construction.
6. Contractor shall remove and dispose of all debris in a legal manner.
7. Contractor shall maintain dust control with water at all times. Meter installation and water costs are the responsibility of the Contractor.
8. The use of explosives is prohibited on this project.
9. Catch basins, sewer inlets, etc. are to be protected from debris and sedimentation during demolition. Install filter fabric under any inlet castings on or off site that receive storm water from the site before any demolition or earthwork activities commence.
10. Verify all trees to be removed with the Architect in field prior to felling.
11. If any discrepancies occur between Contract Documents and site condition during demolition, contact Architect immediately.

General Utility Notes

1. All known utility locations are approximate. The Contractor shall be responsible for determining the exact location of the existing utilities (public and private) and repairing any damage done to the utilities during probing or construction. To obtain field locations of existing underground utilities, call Indiana Underground Cable locations 1.800.382.5544 / 811 and a private utility locate company.
2. The contractor shall notify all appropriate utility companies at least 48 hours prior to the commencement or resumption of work that could potentially disrupt the respective utility service of Infrastructure .
3. Unless noted otherwise, the contractor is responsible for the relocation of all existing utilities which are in conflict with the proposed site improvements.
4. Contractor shall coordinate with Utility Companies for the relocation of utilities on site or crossing the site to service adjacent properties. Do not interrupt existing utilities serving facilities occupied and used by Owner or others, during occupied hours, except when permitted.
5. Coordinate all utilities with all other series drawings.
6. All costs incurred in coordination of all new utility services shall be the responsibility of the Contractor.
7. All connections to existing utilities shall be verified with the Architect and coordinated with respective Utility prior to beginning Work.
8. A layer of filter fabric shall be placed under each inlet casting during the construction period.
9. Maintain 10 feet (horizontal) and 18 inches (vertical) separation between water mains and storm/sanitary sewers. This measurement shall be outside to outside of pipes.

General Site Staking and Layout Notes

1. Do not scale drawing for determining exact layout information.
2. Contractor shall stake and verify all dimensions in field prior to initiation of any construction. Review any discrepancies immediately with the Architect for resolution.
3. All layout components shall be staked out in the field by the Contractor. Obtain Architect approval before starting construction.
4. All dimensions in curbed areas shall be to face of curb. All dimensions in areas without curbing shall be to edge of pavement. All dimensions at integral curb and walk shall be to face of curb. All dimensions from building shall be from face of building.
5. All dimensions are parallel and perpendicular to base lines, property lines or building lines unless otherwise noted.
6. All radii indicated shall be formed as circular arcs. All curves and arcs shall intersect other curves and lines at points of tangency to form smooth transitions unless clearly shown otherwise.
7. Where not shown, sidewalk and retaining wall expansion joints shall be 30'-0" O.C. and control joints 5-0" O.C. maximum spacing. Curb expansion joints shall be 50'-0" O.C. and control joints shall align with adjacent sidewalk where applicable, otherwise 5'-0" maximum spacing shall be used.
8. All walks shall receive medium broom-swept finish perpendicular to direction of traffic flow unless otherwise noted. Coordinate junctions with Landscape Architect/Engineer in field, unless otherwise noted.
9. Accessible ramps and signage shall be in accordance with Federal, State, County, City, and Local codes whichever has jurisdiction. See Site Plans for locations and Site Details for specifications.

General Site Grading and Drainage Notes

1. Contractor shall verify all existing grades in field and report any discrepancies immediately to the Architect.
2. Contractor shall provide positive drainage in all areas. Paving Contractor shall test for any ponding conditions after installation and correct. See specifications.
3. Contractor shall coordinate all earth moving activities with all existing and new utilities. Verify cover requirements with Utility Contractors and/or Utility Companies so not to cause damage.
4. Contractor shall stabilize all earthen areas disturbed during construction.
5. Contractor shall stabilize any stockpiled topsoil against erosion within 15 days of stockpiling.
6. Provide smooth transition from new areas to existing features as necessary.
7. Prior to finish grading, Contractors shall maintain all water draining off site consistent with Drawings. No water shall be diverted onto adjoining properties during any part of the grading process.

General Traffic Control Notes

1. All signs, standards, and barricades shall conform to INDOT Standard Detail Sheets and the Indiana Manual on Uniform Traffic Control Devices.
2. It is the responsibility of the Contractor to coordinate planned construction activities with all Highway Departments and Street Departments prior to construction.
3. If construction activities are expected to disrupt normal off-site traffic flow, the Contractor shall be responsible for coordinating with all Highway Departments and Street Departments and prepare all maintenance of traffic plans as required.
4. Normal site traffic circulation to be maintained during construction. Contractor to erect barricades as needed to protect construction area from normal traffic patterns around the existing facilities.
5. If existing traffic circulation patterns around existing facilities must be disrupted or blocked, Contractor shall submit a traffic plan and obtain written approval from Architect before proceeding.

Abbreviations

ACCEL	acceleration
AD#	addendum
ADJ	adjacent
ALT	alternate
APRX	approximately
A-SERIES	architectural
CAL	caliper
CE	civil engineer
CIP	cast-in-place
CJ	control joint
CL	center line
CLR	clear
CMU	concrete masonry unit
CONC	concrete
DECEL	deceleration
DEMO	demolition
DET	detail
DIA	diamenter
EJ	expansion joint
EL	elevation
EQ	equal distance
E-SERIES	electrical
FFE	finish floor elevation
FOW	face of wall
FT	foot
GA	gauge
HT	height
HDPE	high-density polyethylene
HORIZ	horizontal
IN/ LN FT	inches per linear foot
ID	inside diameter/ dimension
INV	invert
LA	landscape architect
MAX	maxiumum
MED	medium
MFG	manufacturer
MIN	minimum
MH	manhole
M-SERIES	mechanical
N/A	not applicable
OA	overall
OC	on center
OD	outside diameter
PED	pedestrian
PERP	perpendicular
POB	point of beginning
PVC	polyvinyl chloride
R	radius
RCP	reinforced concrete pipe
REF	reference
REINF	reinforcing
REQ'D	required
ROW	right-of-way
SAN	sanitary
SHT	sheet
SIM	similar
SLCPP	smooth lined corrugated plastic pipe
SPECS	specifications
SQ	square
STRM	storm sewer
STRUCT	structure
S-SERIES	structural
THK	thick
TBS	to be selected
TYP	typical
T-SERIES	telecommunications
VERT	vertical
VIF	verify in field
W	width
W/	with
W/O	without
WWF	woven wire fabric
WWM	woven wire mesh

Symbol Legend

TITLE MARK
1A VIEW NAME
Scale

DEMOLITION NOTE 1

PLAN NOTE 1

PLANT TAG 7 ACE-FR

NORTH ARROW N

ELEVATION TARGET

PROPOSED CONTOUR 768

PROPOSED SPOT ELEVATION NOTE AND MARK 767.30

TOP OF CURB EDGE OF PAVEMENT TC 765.75 / EP 765.25

TOP OF CURB RIM TC 765.75 / RIM 765.25

MATCH EXISTING ELEVATION ME

STORM STRUCTURE NUMBER ST-12

SANITARY SEWER STRUCTURE NUMBER SS-03

COORDINATE REFERENCE POINT N: 4489.33 / E: 5876.22

REVISION CLOUD

811 Know what's below. Call before you dig.

SCHMIDT ASSOCIATES
schmidt-arch.com · 317.263.6226
415 Massachusetts Ave., Indianapolis, IN 46204
731 Brent St. #203, Louisville, KY 40204

Project No. 2021-036.GAH
Project Date 01.08.2026
Produced SG

KYLE E. MILLER REGISTERED NO. 19900465 STATE OF INDIANA PROFESSIONAL ENGINEER

These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Architect.

#	Revision	Date

3705 IN-16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

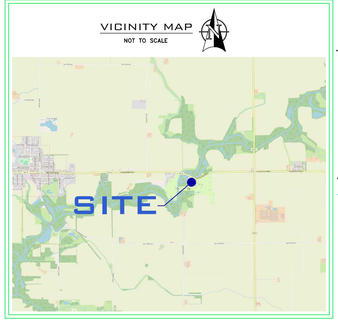
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SITE GENERAL NOTES AND ABBREVIATIONS

C-001.4

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY

VICINITY MAP
NOT TO SCALE



30 0 15 30
(IN FEET)
1 inch = 30 ft.

VERTICAL DATUM:

C 107 RESET 1996 — ELEVATION 643.6 (PUBLISHED) / ELEVATION 649.81 (OBSERVED)

A DISK SET IN THE SOUTHEAST WINGWALL OF A BRIDGE OVER IROQUOIS RIVER ON STATE ROAD 16 0.6 FEET ABOVE THE ROAD, LOCATED ABOUT 1.55 MILES WEST ALONG STATE ROAD 16 FROM BROWNS STORE IN FORESMAN, 1.0 MILE WEST OF THE INTERSECTION WITH STATE HIGHWAY 55, AND 2.1 MILES EAST ALONG STATE ROAD 16 FROM THE POST OFFICE IN BROOK.

CSC TBM #1224 — ELEVATION 648.12

A RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE A FOOT ABOVE THE GROUND LOCATED 45.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF EAST STATE ROAD 16 AND 82.9 FEET WEST OF APPROXIMATE CENTERLINE OF THE EASTERN ENTRANCE TO THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.

CSC TBM #2 — ELEVATION 647.33

A CUT "X" SET ON THE BACK OF A 6-INCH CONCRETE CURB ON AT THE NORTHWESTERN CORNER OF THE PARKING LOT ON THE SOUTH END OF THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.

LAND DESCRIPTION

LAND DESCRIPTION
(from Instrument Number 891998)

Beginning at the Northeast corner of the tract at a point on the South right-of-way line of Indiana State Road Number Sixteen (16), said point being 996.5 feet east and 511.5 feet South of the Northwest corner of Section Twenty-Two (22), Township Twenty-eight (28) North, Range eight (8) West; thence in a Northwesterly direction following the South Right-of-Way line of Indiana Sixteen (16) for a distance of 580.7 feet; thence in a southwesterly direction following an existing fence line for a distance of 418.7 feet; thence in a Southeasterly direction following an existing fence line for a distance of 169 feet; thence in a South and slightly westerly direction following an existing fence line for a distance of 300 feet; thence in a Easterly direction following an existing fence line for a distance of 611 feet; thence North following an existing fence line for a distance of 591.7 feet to the place of beginning.

EXCEPT:
(from Instrument Number 20201952)

Tract 1: A part of the Northwest quarter of Section Twenty-two (22), Township Twenty-eight (28) North, Range Eight (8) West of the Second Principal Meridian, Newton County, Indiana, and more particularly described as follows:

Commencing at a concrete monument 5.0 feet South of a point described in Deed Record 77, page 599 in the Office of the Recorder of Newton County, Indiana, as being 996.5 feet East and 511.5 feet South of the Northwest corner of said Section 22, also being on the South right-of-way line of Indiana State Road No. 16; thence on an assumed bearing South 00°00'00" West a distance of 426.71 feet to an iron rod, said rod being the Point of Beginning of the tract herein described; thence South 00°00'00" West a distance of 160 feet to an iron rod set in an old post encased with concrete; thence North 89°25'00" West a distance of 124.75 feet to a concrete monument; thence North 02°27'00" East a distance of 131.32 feet to an iron rod; thence North 76°59'16" East a distance of 122.27 feet to the Point of Beginning, containing 0.407 acre, more or less.

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
W	WATER VALVE/FIRE HYD/METER
	TELE/FIBER OPTIC/GAS MARKER
G	GAS METER / VALVE
	CLEAN-OUT
E	ELEC. METER BOX/TRANSFORMER
EP / TP	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
AC / GEN	AIR CONDITIONER / GENERATOR
M	MAGNAIL SET/FOUND
R	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
TR	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE – SQUARE / ROUND
12" / 36"	CONIFEROUS TREE & SIZE / DECIDUOUS TREE & SIZE
D / S	DRAINAGE /SANITARY MANHOLE
C / L	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

"I affirm, under penalties for perjury, I have taken reasonable care to redact each social security number in this document, unless required by law."
Donald R. Mosson

IUPPS - 811 TICKET REQUEST NUMBER(S):

2305112749, 2305112779

UTILITY STATEMENT:

The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of paint markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The paint markings shown hereon as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

PREPARED FOR:
GEORGE ADE HISTORIC PRESERVATION COMMISSION
P.O. BOX 93
BROOK, INDIANA 47922

PREPARED BY: DONALD R. MOSSON
CENTRAL STATES CONSULTING, LLC
P.O. BOX 4
13 WEST PEARL STREET
NORTH SALEM, INDIANA 46165
PHONE: 317-858-8662 FAX: 317-342-2857

CENTRAL STATES CSC CONSULTING, LLC
SURVEYING & LAND PLANNING

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
3623 STATE ROAD 16
BROOK, INDIANA 47922

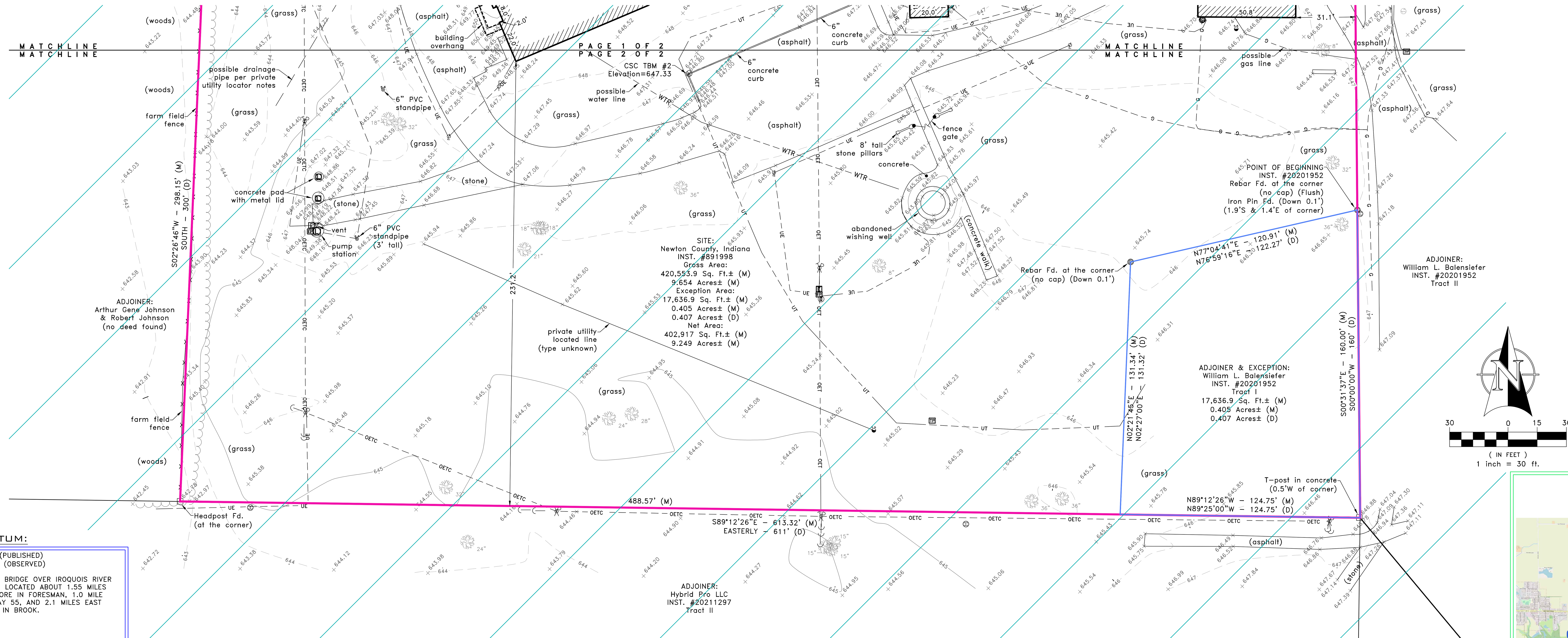
DATE:	06-12-2023
DWN. BY:	JLM
CHKD. BY:	DRM
SCALE:	1" = 30'

PROJECT NUMBER 23-029

SHEET 1 OF 2

MATCHLINE MATCHLINE — PAGE 1 OF 2 / PAGE 2 OF 2 — MATCHLINE MATCHLINE

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY



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	GAS METER / VALVE
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	ELEC. / TELEPHONE PEDESTAL
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	MAGNAIL SET/FOUND
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	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND
12" / 36"	CONIFEROUS TREE & SIZE / DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
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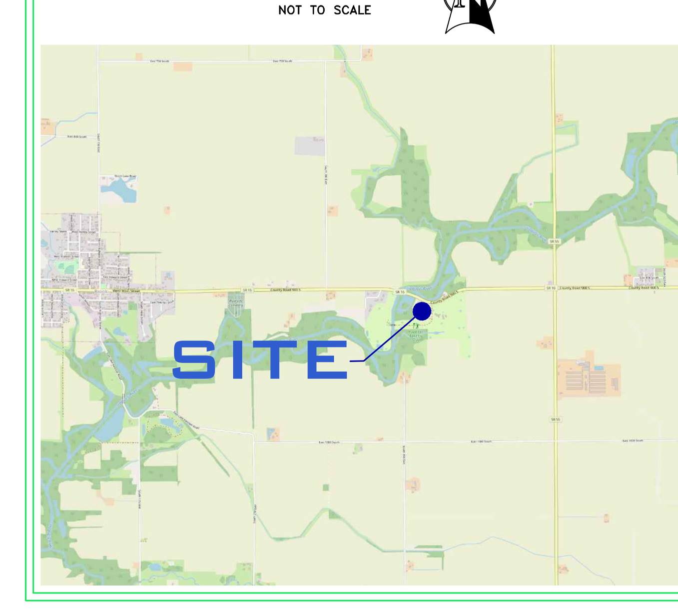

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(from Instrument Number 891998)

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SURVEYOR'S REPORT

In accordance with Title 865, Article 1.1, Chapter 12, Sections 1 through 19 of the Indiana Administrative Code, the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established on this survey as a result of:

A) Variances in the reference monuments;
B) Discrepancies in record descriptions and plats;
C) Inconsistencies in lines of occupation and;
D) Random errors in measurement (Relative Positional Accuracy)

There may be unwritten rights associated with these uncertainties. The client should assume there is an amount of uncertainty along any line equal in magnitude to the discrepancy in the location of the lines of possession from the surveyed lines.

There may be differences of deed dimensions versus measured dimensions along the boundary lines shown hereon and, likewise, there may be found survey markers near, but not precisely at, some boundary corners. In cases where the magnitude of these differences are less than the Relative Positional Accuracy stated below and less than the uncertainty identified for the reference monumentation (discussed below), the differences may be considered insignificant and are shown only for purposes of mathematical closure. Such differences that are greater than the Relative Positional Accuracy and the uncertainty in reference monumentation should be considered worthy of notice and are therefore further discussed below.

This survey and report are based in part upon opinions formed in accordance with an Indiana Land Surveyor's responsibility to conduct a survey in accordance with "law or a precedent" (865 IAC 1-12-11(5), Rules of the Indiana State Board of Registration for Land Surveyors). Since Indiana has no statutes addressing how to resolve boundary lines, a solution based on principles derived from common law precedent must be relied upon as the basis for a boundary resolution.

Unless otherwise noted or depicted hereon, there is no evidence of occupation along the perimeter lines of the subject tract. All survey monuments set or found this survey are flush with existing grade unless otherwise noted.

A.) This is a retracement survey of the tract of land granted to Newton County, Indiana, in the Quit-Claim Deed recorded as Instrument Number 891998 in the Office of the Recorder of Newton County, Indiana. The herein surveyed property is within the Northwest Quarter of Section 22, Township 28 North, Range 8 West of the Second Principal Meridian, Iroquois Township, Newton County, Indiana.
1.) The Northeast Corner of said Section 22 is a Harrison Monument found at the surface. The Northwest Corner of Section 21, Township 28 North, Range 8 West is a Harrison Monument found at the surface. The aforementioned corners were found by references supplied by the Office of the Surveyor of Newton County, Indiana and accepted as prima facie evidence for purposes of this survey and was used to control the lines of the surveyed parcel. The Northwest Corner of said Section 22 was not found nor was there a reference for this corner. The deed for the surveyed property and its adjoiners all call out commencing at this corner. Since there was no corner found or located, the physical evidence of the property was used and held to determine the property lines.
2.) The centerline of State Road 16 was determined per the State Highway Plans, Project No. 259 Sec. A, dated 1931. The variable width right-of-way as determined per said State Highway Plans and is shown and dimensioned herein. The apparent right-of-way was determined as being 30-feet from the centerline of State Road 16 per physical monuments found along said apparent right-of-way line. The northern boundary of the surveyed property was held along said apparent right-of-way line. This is as much as 6.00 feet of uncertainty in the right-of-way line of thus the northern boundary line of the surveyed property. The State Highway Plans reference the Northwest Corner of said Section 21 and the Northeast Corner of said Section 22. This relationship between these two corners was used to determine the bearing of centerline of State Road 16.

B.) Record descriptions of the site were obtained from the Newton County Recorder's Office (latest research date: May 15, 2023) and mathematically retraced for the purpose of disclosing any gaps and/or overlaps between the lines of these surveyed parcels and their adjoiners. The following observations were found:

1.) There appear to be no gaps, gores, or overlaps in the deeds of the surveyed property and its eastern and southern adjoiners. There was no deed found for the western adjoining property, thus I cannot determine whether a gap, gore, or overlap exists between the surveyed property and the western adjoiner.
2.) As previously stated, the northern boundary line of the surveyed property was held along the apparent right-of-way line of State Road 16. In the deed this distance along the right-of-way was stated to be 580.7 feet. I have measured the combined distances along the apparent right-of-way to be 565.81 feet, causing a discrepancy of 14.89 feet.
3.) The northernmost western boundary line of the surveyed property is described as being 418.7 feet along a fence line. I have measured this line to be 414.54 feet along remnants of a farm field fence, causing a discrepancy of 4.16 feet. The distance along this line from the variable width right-of-way line is 416.57 feet.
4.) The western boundary line of the surveyed property is described as being 169 feet along a fence line. I have measured this line to be 168.56 feet along a farm field fence, causing a discrepancy of 0.44 feet.
5.) The southernmost western boundary line of the surveyed property is described as being 300 feet along a fence line. I have measured this line to be 298.15 feet along a farm field fence, causing a discrepancy of 1.85 feet.
6.) The southern line of the surveyed property is described as being 611 feet along a fence line. I have measured this line to be 613.32 feet between a headpost on the western end and passing through a T-post in concrete near the eastern end. There is no longer a fence along this line at the time of the survey.
7.) The eastern boundary line of the surveyed property is described as being 591.7 feet along a fence line. I have measured this line to be 585.89 feet, causing a discrepancy of 5.81 feet. The location of this line was held per existing monumentation found along said line, a rebar found with no cap at the northeastern corner of the 0.407-acre tract and a MAG nail with a "Sayers" washer found on the apparent right-of-way line of State Road 16. The 5.81-foot discrepancy in this line appears to come from the 6.00-foot uncertainty in the location of the right-of-way line along State Road 16.

C.) A significant inconsistency in the lines of occupation was observed during this survey.
1.) There is a power pole with a guy wire and an overhead electric, telephone, and cable line encroaching as much as 22.5 feet onto the surveyed property, as shown herein. I have not been provided with an easement to allow this encroachment.

D) The Relative Positional Accuracy (Due to Random Errors in Measurement) of the corners of the subject tract established by this survey is within the specifications for an Urban Survey (0.07 feet + 50 ppm) as defined in IAC 865.

As a result of the above observations, it is my opinion that the uncertainties in the locations of the lines and corners established on this survey are as follows:

Due to variances in reference monuments: 6.00 feet;

Due to discrepancies in the record description: 14.89 feet;

Due to inconsistencies in lines of occupation: 22.5 feet;

Due to random errors in measurement: 0.07 feet +/- 50 ppm

Mailing Address of Site: 3623 East State Road 16, Brook, Indiana 47922

Basis of Bearing System: The bearing of the North Line of Section 21, Township 28 North, Range 8 West and the North Line of Section 22, Township 28 North, Range 8 West is North 89 degrees 47 minutes 53 seconds East based upon GPS observations taken at the time of the survey in Indiana State Plane, West Zone, NAD83.

NOTE: This plat of a Boundary Retracement Survey represents the conditions at the date of latest field activity.

NOTE: According to the FEDERAL EMERGENCY MANAGEMENT AGENCY, Flood Insurance Rate Map Number 18111C0280D with an effective date of December 16, 2014, this site lies within Zone "A" (Special flood hazard areas without base flood elevations), and Zone "X" (Areas of 500-year flooding, areas of 100-year flood with average depths of less than 1 foot or with drainage areas of less than 1 square mile; and areas protected by levees from 100-year flood).

Date of Latest Field Activity: May 19, 2023

This Survey was performed without reference to a title company, and it may or may not reveal all of the facts associated with the site.

There are no: (i) encroachments upon the subject property by improvements on adjacent property; (ii) encroachments on adjacent property, streets or alleys by improvements on the subject property; (iii) no party walls; or (iv) no visible and apparent conflicts or protrusions except as shown herein.

I hereby certify to George Ade Historic Preservation Commission that this survey was conducted under my direct supervision and that, to the best of my knowledge and belief, conforms to the requirements contained within Title 865, Article 1, Chapter 12, of the Indiana Administrative Code for a RETRACEMENT SURVEY.

Date: June 8, 2023

Donald R. Mosson
State of Indiana
Professional Surveyor No. 9600013

DONALD R. MOSSON REGISTERED No. 9600013 STATE OF INDIANA LAND SURVEYOR

"I affirm, under penalties for perjury, I have taken reasonable care to redact each social security number in this document, unless required by law."
Donald R. Mosson

IUPPS - 811 TICKET REQUEST NUMBER(S):
2305112749, 2305112779

UTILITY STATEMENT:
The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of paint markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The paint markings shown hereon as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

PREPARED FOR:
GEORGE ADE HISTORIC PRESERVATION COMMISSION
P.O. BOX 93
BROOK, INDIANA 47922

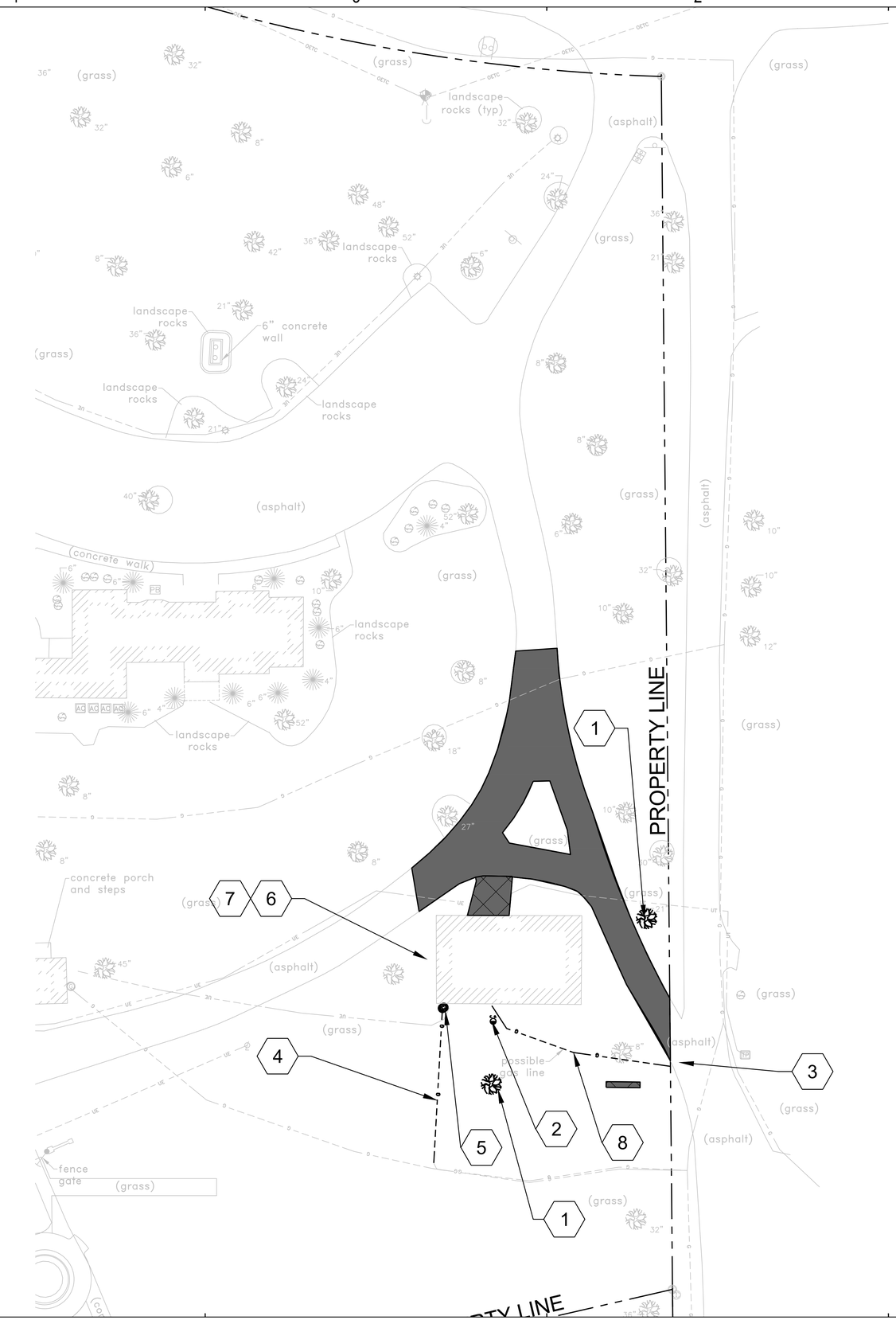
PREPARED BY: DONALD R. MOSSON
CENTRAL STATES CONSULTING, LLC
P.O. BOX 4
13 WEST PEARL STREET
NORTH SALEM, INDIANA 46165
PHONE: 317-858-8662 FAX: 317-342-2857

CENTRAL STATES CSC CONSULTING, LLC
SURVEYING & LAND PLANNING

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
3623 STATE ROAD 16
BROOK, INDIANA 47922

DATE:	06-12-2023
DWN. BY:	JLM
CHKD. BY:	DRM
SCALE:	1" = 30'

PROJECT NUMBER 23-029



GENERAL NOTES

1. REFERENCE C-001 FOR GENERAL DEMOLITION PLAN NOTES.
2. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ALL DEMOLITION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID TO FULLY UNDERSTAND WHAT ITEMS ARE IN THE WAY OF NEW CONSTRUCTION. ONLY THOSE ITEMS UNDERGROUND AND NOT INDICATED ANYWHERE IN CONTRACT DOCUMENTS WILL BE CONSIDERED UNFORESEEN CONDITIONS. CHANGE ORDERS WILL NOT BE ISSUED FOR VISIBLE ITEMS.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL MATERIALS INDICATED ON THE PLAN. DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN ACCORDANCE WITH APPLICANT STATE AND FEDERAL GUIDELINES AND PROCEDURES.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES, PLANTS AND STRUCTURES ON AND AROUND THE SITE.
5. ALL TOPSOIL IN AREAS SUBJECT TO CONSTRUCTION SHALL BE STRIPPED AND STOCKPILED FOR REPLACEMENT DURING FINISH GRADING.

DEMOLITION LEGEND

SAW CUT AND REMOVE CONCRETE PAVEMENT/CURB

SAW CUT AND REMOVE ASPHALT

DEMOLITION KEY NOTES

1. REMOVE TREE IN ITS ENTIRETY
2. REMOVE CLEANOUT IN ITS ENTIRETY
3. PATCH AND REPAIR NEIGHBORS DRIVE WHERE NECESSARY. RESTORE TO RECONSTRUCTION STATE. PHOTOGRAPH RECONSTRUCTION STATE
4. REMOVE GAS LINE IN ITS ENTIRETY
5. REMOVE GAS METER IN ITS ENTIRETY
6. REMOVE AND CAP EXISTING SANITARY LINE. FIELD VERIFY LOCATION.
7. REMOVE AND CAP EXISTING WATER LINE. FIELD VERIFY LOCATION.
8. REMOVE GAS LINE BACK TO MAIN AND CAP BRANCH. COORDINATE WITH UTILITY COMPANY AND ADJACENT PROPERTY OWNER.

1A DEMOLITION PLAN
1" = 20'

0 20 40

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-036.GAH
Project Date 01.08.2026
Produced TP

KYLE E. MILLER REGISTERED NO. 19900465 STATE OF INDIANA PROFESSIONAL ENGINEER

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#	Revision	Date

3705 IN-16
Brook, IN 47922

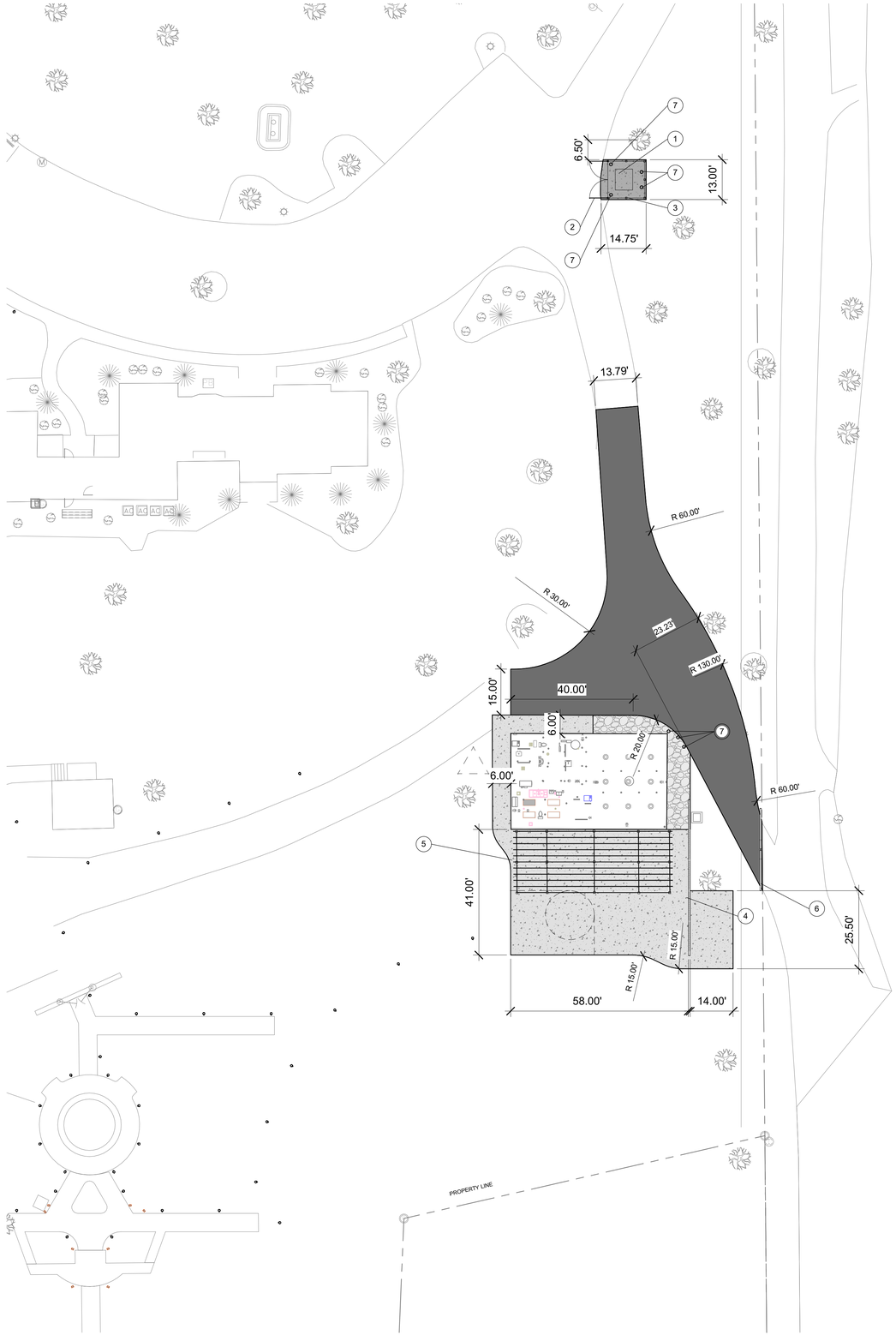
KEY PLAN N

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN ESTATE
RESTORATION -
CARRIAGE HOUSE
RENOVATION -
BID PACKAGE 4

DEMOLITION PLAN

CD101.4



1 **CARRIAGE HOUSE LAYOUT PLAN**
1" = 20'-0"

GENERAL LAYOUT NOTES

1. REFERENCE C-001 FOR GENERAL LAYOUT PLAN NOTES.
2. NORTHING AND EASTING COORDINATES ARE STATE PLANE COORDINATES BASED ON A TOPOGRAPHIC SURVEY. REFER TO SURVEY DRAWINGS FOR HORIZONTAL CONTROL POINT DATA.
3. ALL EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.

CARRIAGE HOUSE RENOVATION LAYOUT LEGEND

	STANDARD DUTY ASPHALT. SEE DETAIL 1C/CL501.4
	STANDARD DUTY CONCRETE. SEE DETAIL1A/CL501.4
	HEAVY DUTY CONCRETE. SEE DETAIL 1B/CL501.4
	STONE AGGREGATE

CARRIAGE HOUSE LAYOUT NOTES

Key	Note
1	DUMPSTER PROVIDED BY OWNER
2	DECORATIVE 6' TALL 12' WIDE DOUBLE SWING GATE - SEE DETAIL 1D/CL501.4 FOR FOOTING AND SEE SPECS
3	6' TALL ORNAMENTAL FENCE. SEE DETAIL 1D/CL501.4 FOR FOOTING AND SEE SPECS
4	51'LONG DECORATIVE SCREEN WALL. SEE SPECS AND DETAILS
5	PERGOLA. SEE SPECS AND DETAILS
6	VEHICULAR GATE. SEE SPECS AND DETAIL 2B/CL501.4
7	BOLLARD. SEE DETAIL 2A/CL501.4 AND SPECS

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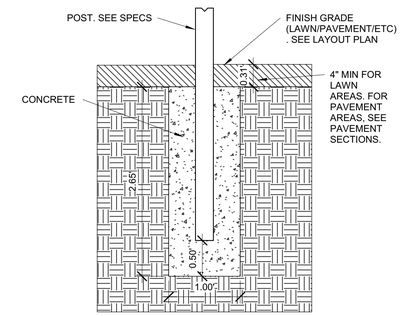
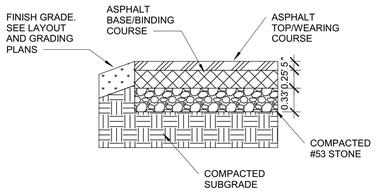
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SITE LAYOUT PLAN
CARRIAGE HOUSE RENOVATION

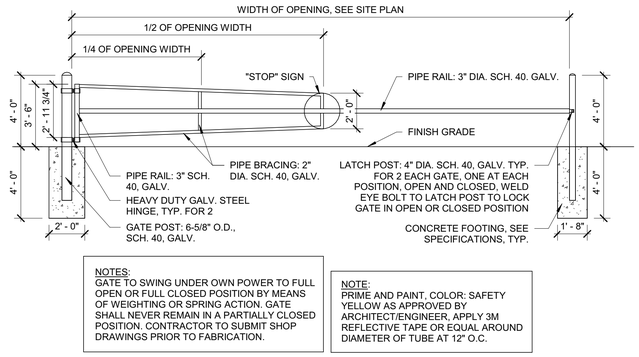
CL101.4



1D FENCE POSTER FOOTING
1" = 1'-0"



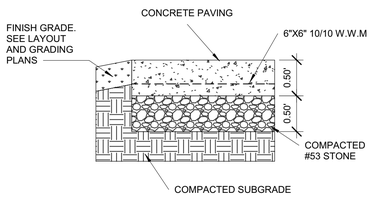
1C STANDARD ASPHALT PAVING
1" = 1'-0"



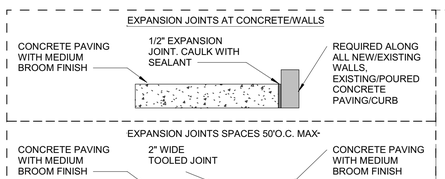
NOTES:
GATE TO SWING UNDER OWN POWER TO FULL OPEN OR FULL CLOSED POSITION BY MEANS OF WEIGHTING OR SPRING ACTION. GATE SHALL NEVER REMAIN IN A PARTIALLY CLOSED POSITION. CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.

NOTE:
PRIME AND PAINT, COLOR: SAFETY YELLOW AS APPROVED BY ARCHITECT/ENGINEER. APPLY 3M REFLECTIVE TAPE OR EQUAL AROUND DIAMETER OF TUBE AT 12" O.C.

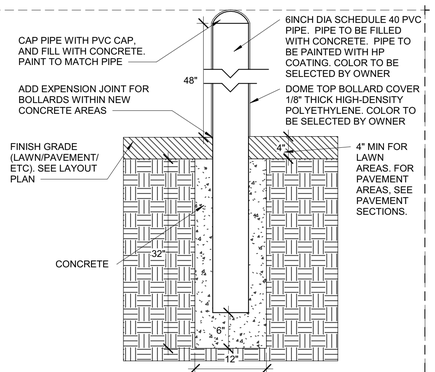
2B VEHICULAR GATE
1/4" = 1'-0"



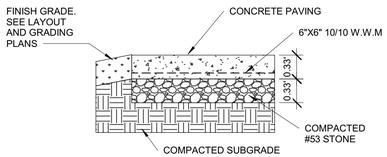
1B HEAVY DUTY CONCRETE
1" = 1'-0"



3A CONCRETE- JOINTS AND MEDIUM BROOM FINISH
1" = 1'-0"



2A BOLLAD - PVC PIPE
1" = 1'-0"



1A STANDARD CONCRETE PAVING
1" = 1'-0"

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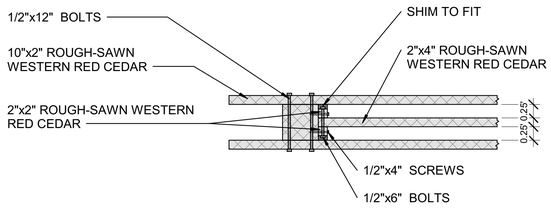
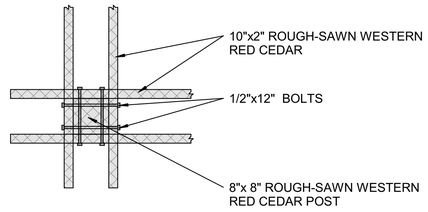
CARRIAGE HOUSE DETAILS

CL501.4



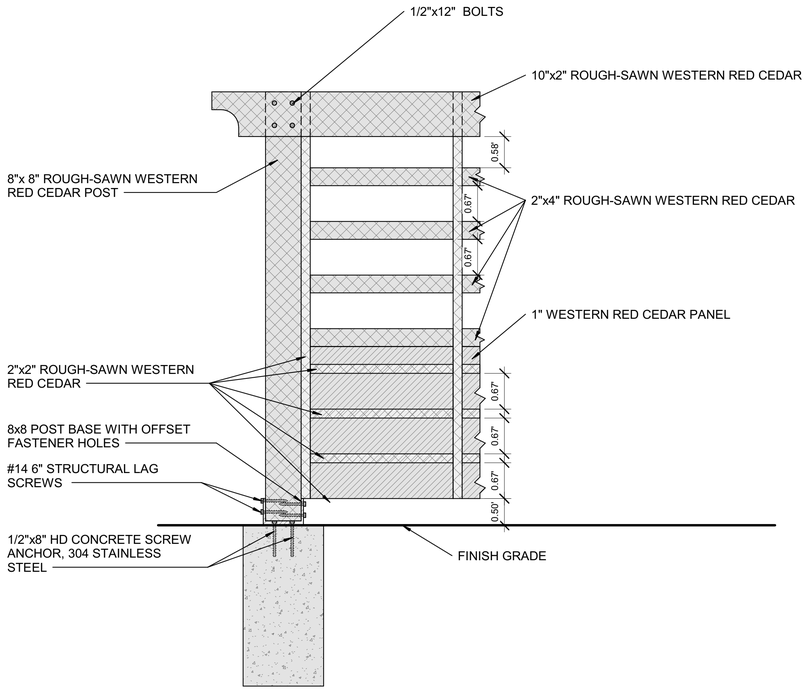
PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

4 SCREENING WALL PLAN VIEW DETAIL
NOT TO SCALE



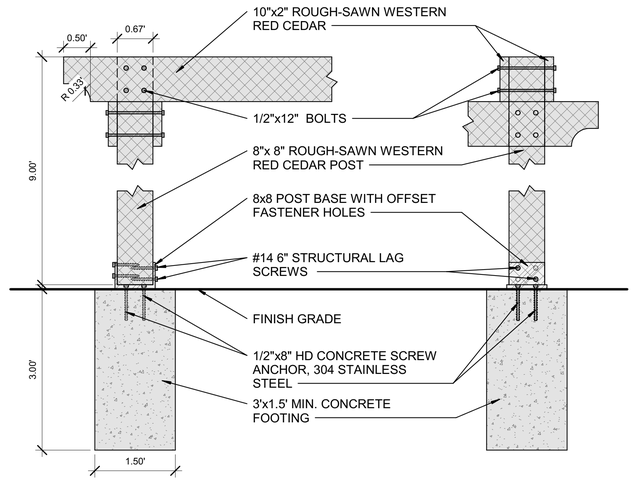
PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

2 PERGOLA PLAN VIEW DETAIL
NOT TO SCALE



PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

3 SCREENING WALL ELEVATION DETAIL
NOT TO SCALE



PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

1 PERGOLA ELEVATION DETAIL
NOT TO SCALE

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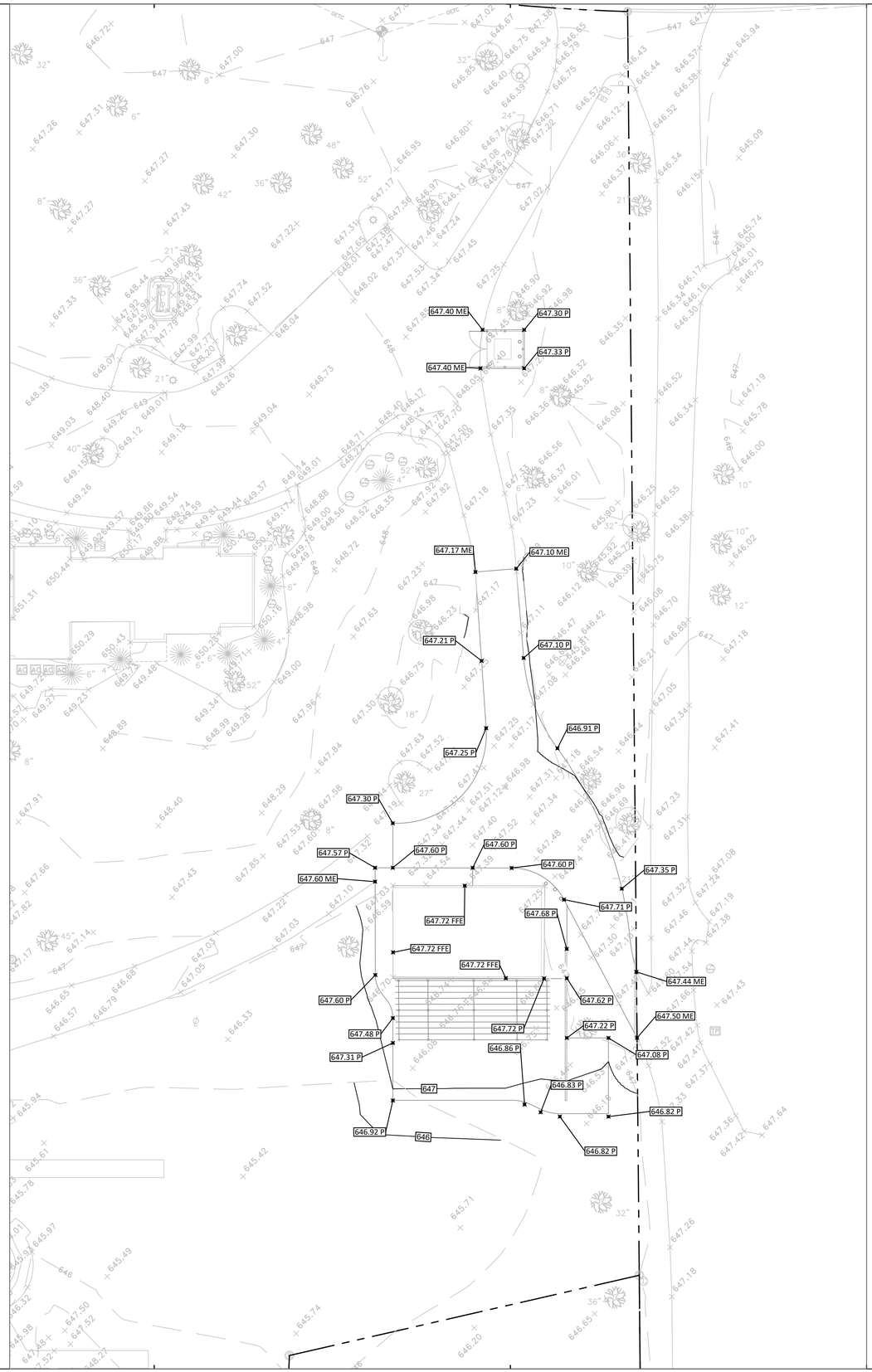
SITE LAYOUT DETAILS

CL502.4



GENERAL GRADING NOTES

1. IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, IT THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF SITE CONDITIONS AT THE TIME THIS PROJECT IS BID.
3. ALL TRANSITIONS IN CURB HEIGHTS SHALL BE SMOOTH WITH A CONSISTENT SLOPE.

GRADING LEGEND

828	EXISTING CONTOUR LINE
828	PROPOSED CONTOUR LINE
1000.00	PROPOSED ELEVATION
1000.00 EX	EXISTING ELEVATION
1000.00 ME / ME	MATCH EXISTING ELEVATION
1000.00 TC	TOP OF CURB ELEVATION
1000.00 TW	TOP OF WALL ELEVATION
1000.00 TR	TOP OF RIM ELEVATION
1000.00 P	PAVEMENT ELEVATION
1000.00 GU	GUTTER ELEVATION
1000.00 G	GROUND ELEVATION
1000.00 FL	FLOWLINE ELEVATION
1000.00 BC	BOTTOM OF CURB ELEVATION
1000.00 BW	BOTTOM OF WALL ELEVATION
1004.50 FFE	FINISH FLOOR ELEVATION

1A GRADING PLAN
1" = 20'
0 20 40

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KEY PLAN

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN ESTATE
RESTORATION -
CARRIAGE HOUSE
RENOVATION -
BID PACKAGE 4

GRADING PLAN

CG101.4

GENERAL UTILITIES NOTES

1. IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, IT THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
2. ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
3. COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER PAVED AREAS. SEE SPECIFICATIONS.
4. PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
5. ALL EXISTING PIPES INVERTS ARE APPROXIMATE. VERIFY ALL INVERTS IN FIELD. IF INVERTS DO NOT MATCH THE PLAN,. CONTACT THE ARCHITECT.

UTILITY LEGEND

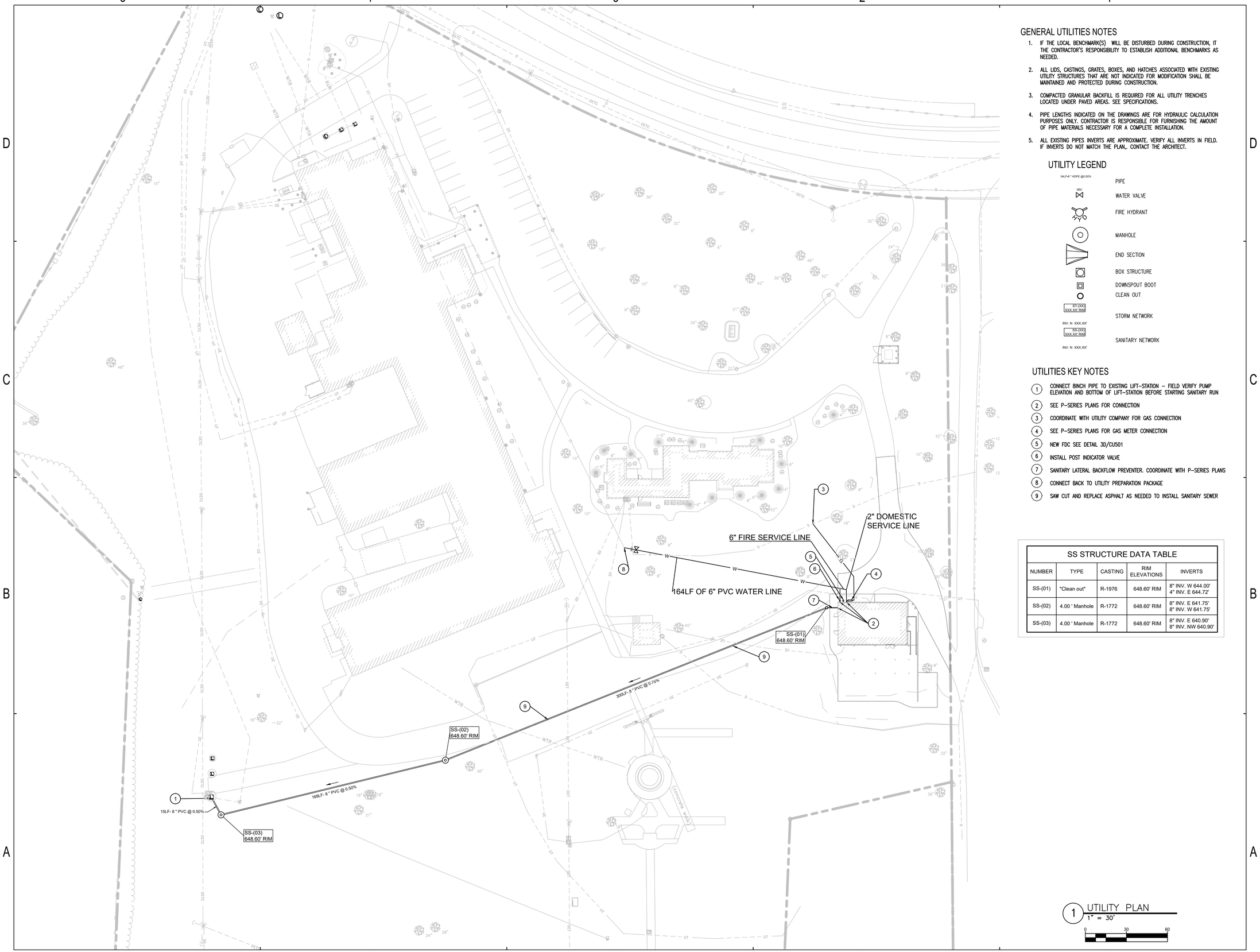
- 54LF-6 " HDPE @0.50% — PIPE
- WV — WATER VALVE
- FIRE HYDRANT
- MANHOLE
- END SECTION
- BOX STRUCTURE
- DOWNSPOUT BOOT
- CLEAN OUT
- ST-(XX) XXX.XX' RIM — STORM NETWORK
- INV. N XXX.XX'
- SS-(XX) XXX.XX' RIM — SANITARY NETWORK
- INV. N XXX.XX'

UTILITIES KEY NOTES

1. CONNECT 8INCH PIPE TO EXISTING LIFT-STATION – FIELD VERIFY PUMP ELEVATION AND BOTTOM OF LIFT-STATION BEFORE STARTING SANITARY RUN
2. SEE P-SERIES PLANS FOR CONNECTION
3. COORDINATE WITH UTILITY COMPANY FOR GAS CONNECTION
4. SEE P-SERIES PLANS FOR GAS METER CONNECTION
5. NEW FDC SEE DETAIL 3D/CU501
6. INSTALL POST INDICATOR VALVE
7. SANITARY LATERAL BACKFLOW PREVENTER. COORDINATE WITH P-SERIES PLANS
8. CONNECT BACK TO UTILITY PREPARATION PACKAGE
9. SAW CUT AND REPLACE ASPHALT AS NEEDED TO INSTALL SANITARY SEWER

SS STRUCTURE DATA TABLE

NUMBER	TYPE	CASTING	RIM ELEVATIONS	INVERTS
SS-(01)	"Clean out"	R-1976	648.60' RIM	8" INV. W 644.00' 4" INV. E 644.72'
SS-(02)	4.00 ' Manhole	R-1772	648.60' RIM	8" INV. E 641.75' 8" INV. W 641.75'
SS-(03)	4.00 ' Manhole	R-1772	648.60' RIM	8" INV. E 640.90' 8" INV. NW 640.90'



1 UTILITY PLAN
1" = 30'
0 30 60

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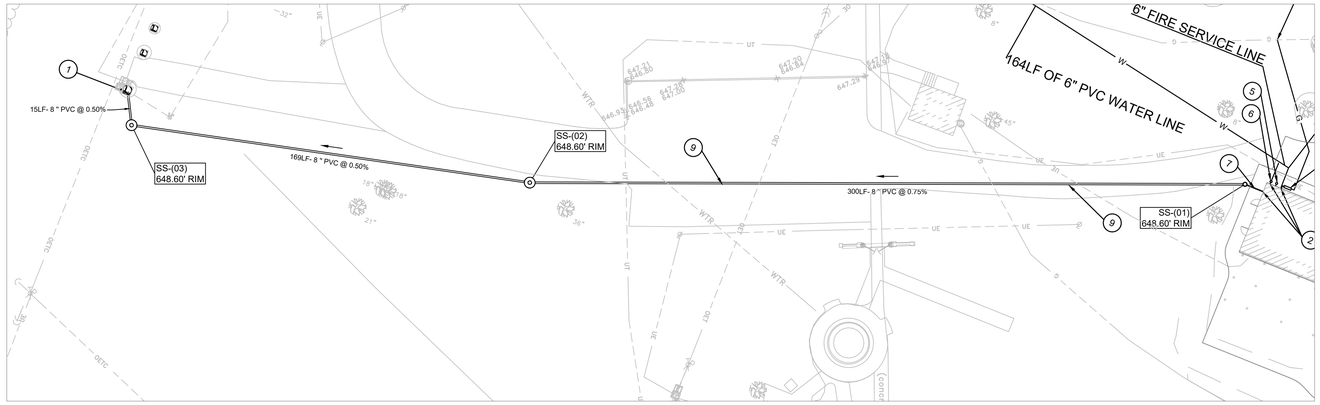
N

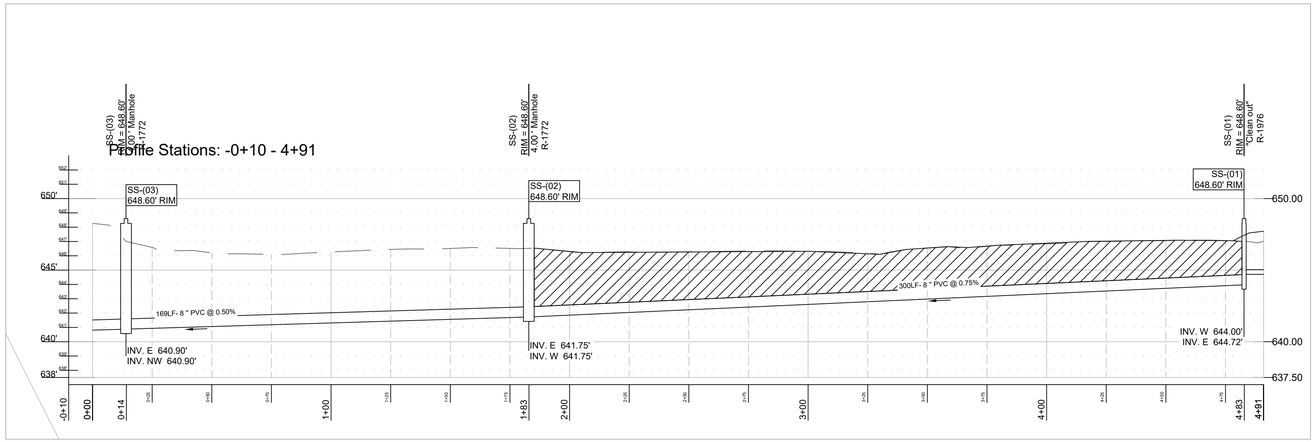
NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

UTILITY PLAN

CU101.4





1 PLAN & PROFILE – STORM
1"=30' HORIZONTAL; 1"=5' VERTICAL

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RESTORATION -
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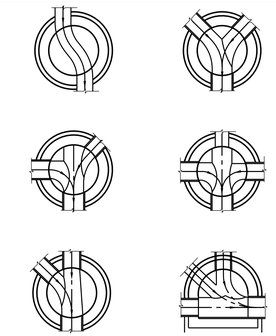
RENOVATION -
BID PACKAGE 4

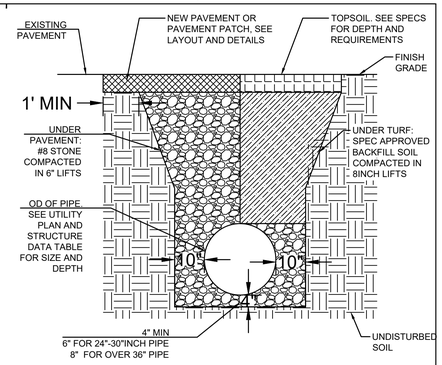
PLAN & PROFILE - SANITARY

CU301.4

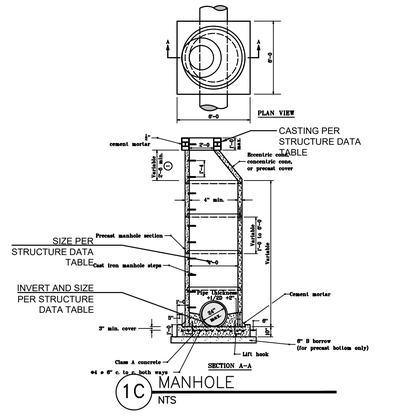


NOTE:
Sanitary sewer bench slope at $\frac{1}{2}$" per foot.

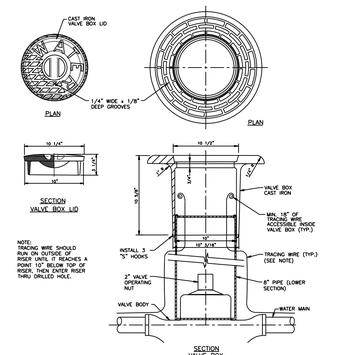
2D Sanitary Manhole Benches
Not to Scale



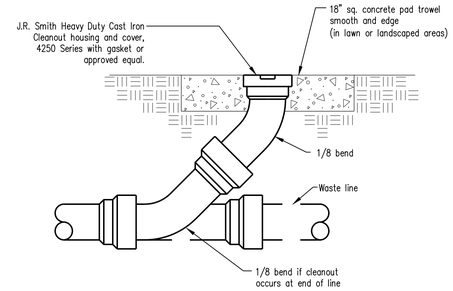
1D SDR35>, HDPE, RCP PIPE BEDDING
1" = 2'



1C MANHOLE
NTS



1B WATER VALVE
NTS



1A Exterior Cleanout Detail
Not to Scale

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KEY PLAN N

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HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

UTILITY DETAILS

CU501.4

EROSION CONTROL LEGEND

- INLET PROTECTION, SEE DETAILS
- CONSTRUCTION ENTRANCE, SEE DETAILS
- EROSION CONTROL BLANKET
- CONSTRUCTION LIMITS LINE
- SILT FENCE
- CW — CONCRETE WASHOUT, SEE DETAILS
- SP — STOCK PILE (SEE DETAILS)

CONTACT PERSON

KRISTINE WRIGHT–DIRECTOR
100 W MAIN ST, BROOK IN
kwright@brook.lib.in.us
219–275–2471

EROSION CONTROL NOTES

1. SEED ALL DISTURBED AREAS

1 EROSION CONTROL PLAN
1" = 30'
0 30 60

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KEY PLAN

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HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

CE101.4

A-Construction Plan Elements

A1. INDEX SHOWING LOCATIONS OF REQUIRED PLAN ELEMENTS:
SEE SHEET G-001

A2. VICINITY MAP:
SEE SHEET G-001

A3. NARRATIVE DESCRIBING THE NATURE AND PURPOSE OF THE PROJECT:
THE PROJECT INVOLVES A PARKING LOT ADDITION, NEW SIDEWALK, NEW PATIO FOR THE CARRIAGE HOUSE, PERMEABLE PAVERS, CUT AND FILL

A4. LATITUDE AND LONGITUDE:
SEE COVER SHEET G-001. LATITUDE: 40.864025DEG LONGITUDE: -87.323457 DEG

A5. LEGAL DESCRIPTION OF THE PROJECT SITE:
SECTION 22 , 28N, 8W RE, NEWTON COUNTY, INDIANA.

A6. 11X17 PLAT SHOWING LAYOUT:
SEE SHEET CL101.

A7. BOUNDARIES OF 100YR FLOODWAY/FRINGES, AND FLOODPLAINS:
SEE SURVEY SHEETS

A8. LAND US OF ALL ADJACENT PROPERTIES:
SEE SURVEY SHEETS.

A9. IDENTIFICATION OF US EPA APPROVED OR ESTABLISHED TMDL:
NO EPA APPROVED OR ESTABLISHED TMDL.

A10. NAME OF RECEIVING WATERS:
IROQUOIS RIVER

A11. IDENTIFICATION OF DISCHAGES TO A WATER ON THE CURRENT 303 LIST OF IMPAIR WATERS AND THE POLLUTANTS FOR WHICH IT IS IMPAIRED:

A12. SOIL MAP:
SEE CE501

A13. IDENTIFICATION AND LOCATION OF ALL KNOWN WETLAND LAKES AND WATER COURSES ON ADJACENT TO THE PROJECT SITE:
SEE SURVEY SHEETS.

A14. IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATION THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES:

A15. IDENTIFICATION AND DELINEATION OF EXISTING COVER INCLUDING NATURAL BUFFERS:
SEE SURVEY SHEETS.

A16. EXISTING TOPOGRAPHY AT A CONTOUR INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS:
SEE SURVEY SHEETS

A17. LOCATION OF WHERE RUNOFF ENTERS THE PROJECT SITE:
SEE CG101.

A18.LOCATION OF WHERE RUNOFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE
SEE SURVEY SHEETS

A19. LOCATION OF ALL EXISTING STRUCTURE ON THE PROJECT SITE:
SEE SURVEY SHEETS.

A20. EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT.
SEE SURVEY SHEETS.

A21. LOCATIONS WHERE STROMWATER MAY BE DIRECTLY DISCHARGED INTO GROUNDWATER, SUCH AS ABANDONED WELLS, SINKHOLES OR KARST FEATURES.

A22. SIZE OF PROJECT AREA IN ACRES:
1.25 ACRES

A23. TOTAL EXPECTED LAND DISTURBANCES IN ACRES
0.27 ACRES

A24. PROPOSED FINAL TOPOGRAPHY:
SEE CG101 SHEETS

A25: LOCATION AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS:
SEE CL101 SHEETS.

A26: LOCATION SIZE AND DIMENSION OF ALL STORMWATER DRAINAGE SYSTEM.
SEE CU101 SHEETS

A27 LOCATION OF SPECIFIC POINT WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE.
SEE CU101 SHEETS

A28 LOCATION OF ALL PROPOSED SITE IMPROVEMENTS:
SEE CL101 SHEETS

A29: LOCATION OF ALL ONSITE SOIL STOCKPILES AND BORROW AREAS.
SEE CE101 SHEETS.

A30 CONSTRUCTION SUPPORT ACTIVITIES:
NONE

A31 LOCATION OF ANY IN-STREAM ACTIVITIES:
NONE

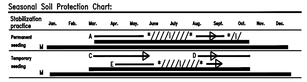
B-SWPPP-EROSION CONTROL

B1. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES:
SILT AND SEDIMENT FROM EXPOSED SOILS, LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, TRASH, DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH, FERTILIZERS, HERBICIDES, PESTICIDES, ACID RAIN, LIME DUST AND CONCRETE WASHOUT.

B2. STABLE CONSTRUCTION ENTRANCE LOCATION AND SPECS:
SEE CE101 AND CE501 SHEETS

B3. SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION:
SEE CHART:

Seasonal Soil Protection Chart:



A = Kentucky bluegrass 40 lbs/acre; Creeping red fescue 45 lbs/acre; plus 2 tons straw mulch/acre, or add annual ryegrass 20 lbs/acre.

B = Kentucky bluegrass 60 lbs/acre; Creeping red fescue 60 lbs/acre; plus 2 tons straw mulch/acre, or add annual ryegrass 30 lbs/acre.

C = Spring oats 3 bushel/acre

D = Wheat or rye 2 bushel/acre

E = Annual ryegrass 40 lbs/acre

/†/ Irrigation needed during June, July, and/or September

** Irrigation needed for 2 to 3 weeks after applying and

M = MULCH

B4. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:
SEE SHEET CE101

B5: SEDIMENT CONTROL MEASURES FOR SHEET FLOW ARES.
SEE SHEET CE101.

B6. RUNOFF CONTROL MEASURES:
SEE SHEET CE101.

B7. STORMWATER OUTLET AND PROTECTION LOCATIONS AND SPECS.
SEE SHEET CE101.

B8. GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECS.
SEE SHEET CE101

B9 DEWATER APPLICATIONS AND MANAGEMENT METHODS.
NONE

B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES.
NONE.

B11. MAINTENANCE GUIDELINES FOR EACH PROPOSED TEMPORARY STORMWATER QUALITY MEASURE.
PER IDEM STORMWATER QUALITY MANUAL AND BELOW.

SILT FENCE MAINTENANCE REQUIREMENTS
1. Inspect the silt fence periodically and after each storm event
2.If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
3.Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
TEMPORARY INLET PROCETECTION MAINTENANCE REQUIREMENTS
1.Inspect temporary inlet after each storm event and immediately repair any erosion and piping holes.
2.Inspect vegetation and re-seed if necessary.
3.If fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
4.Remove deposited sediment when it reaches half full.
EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS
1.During vegetative establishment, inspect after each storm event for any erosion below the blanket.
2.If any area(s) shows erosion, pull back that portion of the blanket covering it, reseed the area and relay and staple the blanket.
3.After vegetative establishment check the treated area periodically.
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS
1.Inspect entrance pad and sediment disposal area weekly and after storm events or heavy use.
2.Reshape as needed for drainage and runoff control.
3.Topdress with clean stone as needed.
4.Immediately remove mud and sediment tracked or washed onto streets by brushing or sweeping. .
TEMPORARY CONCRETE WASHOUT MAINTENANCE REQUIREMENTS
1.Clean concrete washout daily when used.
2.Dispose of concrete per local requirements.

B12. PLANNED CONSTRUCTION SEQUENCE DESCRIBING THE RELATIONSHIP BETWEEN IMPLEMENTATION OF STORMWATER QUALITY MEASURE IN REACTION TO LAND DISTURBANCE.
1.Conduct preconstruction meeting with soil and water
2.Call the Indiana Underground Plant Protection systems, Inc. ("Holey Moley") at 811 to check the location of any existing utilities. They should be notified two working days before construction takes place.
3. post 1 silt fence shall be installed at the edges of the project site where there is potential for any stormwater runoff.
4. Inlet protection shall be installed.
5. Evaluate, mark and protect important trees and associated root zones. Evaluate existing vegetation suitable
6. A construction entrance shall be placed per the plan location
7. Establish construction staging area for equipment and vehicles
8. Establish onsite location for approved plans/SWPPP plans and postings.
9. Establish SWPPP documents and reports
10. Once erosion and sediment control measures are in place, begin land clearing followed immediately by rough grading. Do not leave large areas unprotected for more than 7 days.
11. Conduct SWPP inspections
12. After grading, seed all disturbed areas
13. Install Utilities including Storm sewers, etc
14 Install inlet protections on new storm structures
15. Final Grade and Final Seed all areas.

B13. PROVISION FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT.
NONE

B14. MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENT IN 327 IAC2-6.1
1. IF ANY SPILL EXCEEDS THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT LEVELS, THE CONTRACTOR SHALL ENGAGE A QUALIFIED ENVIRONMENTAL CLEAN UP CONTRACTOR TO DISPOSE OF CONTAMINATED AREAS AS REQUIRED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. ALL CLEAN OUT OF CONCRETE TRUCKS SHALL ALSO BE DONE A MINIMUM OF 50 FEET FROM ANY STORM INLET, DRAINAGE SWALE OR EXCAVATED POND. ALL CONCRETE CLEAN OUT SHALL BE IN AN EXCAVATED SEDIMENT BASIN AND THE EXCESS MATERIAL REMOVED AFTER ALL CONCRETE MATERIAL INSTALLATION HAS BEEN COMPLETED ON THE SITE.
1.Any personnel observing a spill will immediately instigate the following procedure:
Dialing "0" from any telephone.
Notify the appropriate emergency personnel.
2. The Emergency Coordinator will then take the following actions:
Barricade the area allowing no vehicles to enter or leave the spill zone.
Notify the Indiana Department of Environmental Management, Office of Emergency Response by calling the appropriate telephone number: Office: 317-233-7745
Notify National Response Center at 800-424-8802
Notify bureau of Water Quality - (765)747-4896

B15. MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY.
SEE SHEET CE101

C-SWPPP POST CONSTRUCTION

C1.DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCATITE WITH THE PROPOSED LAND US
SILT AND SEDIMENT FROM EXPOSED SOILS, LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, TRASH, DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH, FERTILIZERS, HERBICIDES, PESTICIDES, ACID RAIN, LIME DUST

C2. DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER MEASURES
1.VEGETATED STRIPS AND/OR SWALES
2.PERMANENT EROSION CONTROL SEEDING AND PLANTINGS
3.OUTLET PROTECTION & VELOCITY DISSIPATION DEVICES
4.EARTHEN DIKES, DRAINAGE SWALES AND LINED DITCHES
5.ROCK SLOPE PROTECTION
6.MULCHING

C3 PLAN DETAILS FOR EACH STORMWATER MEASURE
SEE CE501 AND SPECS

C4 SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION
AFTER ALL CONSTRUCTION ACTIVITIES ARE FINISHED, INSTALL ALL PERMANENT VEGETATION.

C5 MAINTENANCE GUIDELINE FOR PROPOSED POST CONSTRUCTION STORMWATER MEASURES
1. INSPECT ALL STORM WATER STRUCTURES, FOR DEBRIS QUARTERLY
2. INSPECT ORIFICE FOR DEBRIS AFTER ALL LARGE RAIN EVENTS AND QUARTERLY
3.

C6 ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST CONSTRUCTION STORMWATER MEASURES.
GEORGE ADE MEMORIAL HEALTH CARE CENTER

L-LOCAL SWPPP

L1. A SWPP WAS NOT PREPARED AND APPROVED PRIOR TO CONSTRUCTION
N/A

L2. THE SWPPP IDENTIFIES THE LOCATION OF: CHEMICAL STORAGE, STRUCTURE, AND PIPE LISTS, PORTA-LETS, STAGING AREA, FUEL TANKS, AND DUMPSTER PADS.
SEE CE101 SHEETS.

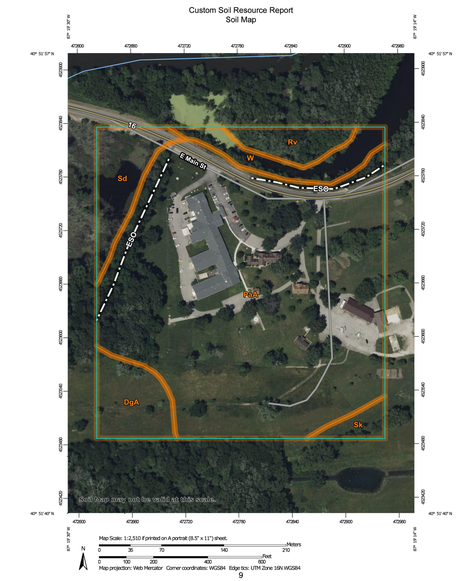
L3. SWPPP SITE DESCRIPTION INCLUDES TOTAL FINAL IMPERVIOUS AREA.
SEE CL101 SHEETS.

L4. SWPPP REFERNCES THE IDEM INDIANA STORMWATER QUALITY MANUAL.
SEE B-SWPPP.

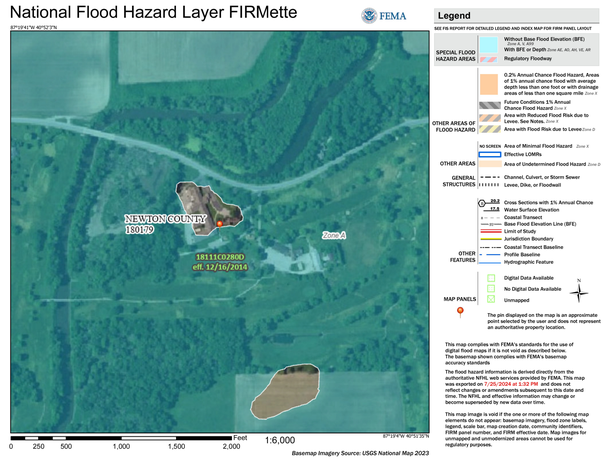
L5. IF A RETAIL GASOLINE OUTLET: THE SWPPP INCLUDES POLLUTION REDUCTION BMPS
N/A

L6. IF RETAIL GASOLINE OUTLET THE SWPPP INCLUES THE INSTALLATION DETAILS
N/A

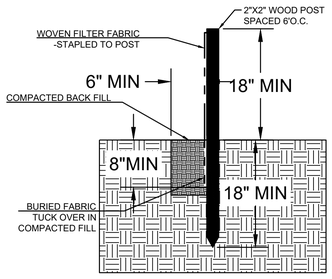
L7. IF A RETAIL GASOLINE OUTLET: THE POST CONSTRUCTION AGREEMENT INCLUDES BMPS, DETAILS, AND MAINTENANCE CRITERIA.
N/A



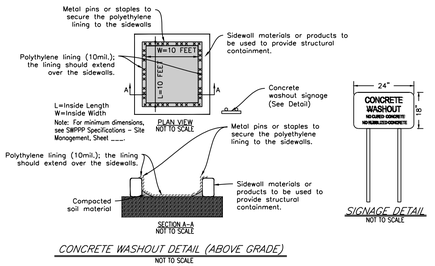
2D NRCS SOIL MAP & DESCRIPTION
N.T.S



2B ADJACENT FLOODPLAINS & FLOODWAYS MAP
N.T.S

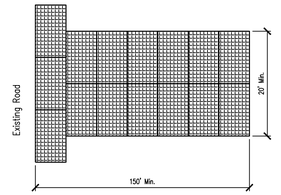


3A SILT FENCE
1" = 1'



CONCRETE WASHOUT DETAIL (ABOVE GRADE)
NOT TO SCALE

2A CONCRETE WASHOUT
NTS



Maintenance:
1. Use FODS or Shaker plates on existing pavement as the construction entrance.
2. The matt shall be 12'x7'x3 $\frac{1}{2}$" size from FODS LLC 91-844-200-3637, or from SoCal Shaker Plates (951-588-5698)
3. Inspect daily, and after storm events or heavy use.
4. Reshape as needed for drainage and runoff control.
5. Immediately remove mud and sediment tracked or washed onto public roads by sweeping or brushing.
6. Repair any broken pavement immediately.

1A STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE - PRACTICE 3.01

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced TP

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#	Revision	Date

3705 IN-16
Brook, IN 47922

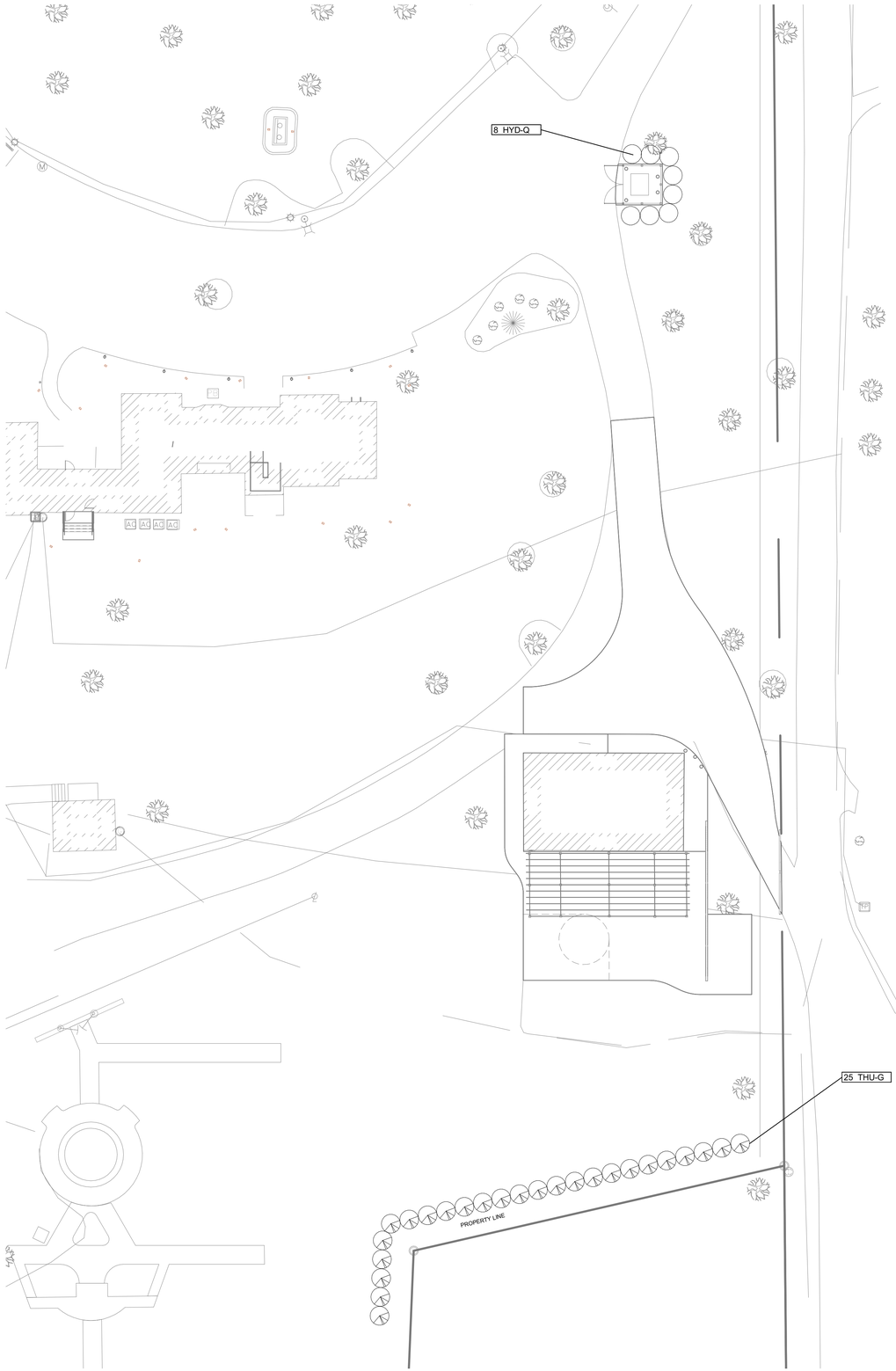
KEY PLAN

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SWPPP NOTES AND DETAILS

CE501.4



1 **CARRIAGE HOUSE PLANTING PLAN**
1" = 20'-0"

GENERAL PLANTING NOTES

1. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PERMANENTLY SEEDED UNLESS INDICATED OTHERWISE ON THIS PLAN.
2. ALL EXISTING LANDSCAPING ON AND ADJACENT TO PROJECT SITE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
3. PLANT QUANTITIES LISTED IN THE TABLE ARE FOR CONTRACTOR CONVENIENCE ONLY. IN THE EVENT OF DISCREPANCY BETWEEN STATED AMOUNT AND WHAT IS GRAPHICALLY SHOWN ON PLAN, THE PLAN QUANTITY SHALL DICTATE.
4. ESTABLISH TURF GRASS ABOVE NATIVE AREA PRIOR TO SEEDING NATIVES TO PREVENT CONTAMINATION OF THE NATIVES. IN THE EVENT PRIOR ESTABLISHMENTS IS NOT FEASIBLE, UTILIZE SILT FENCE OR OTHER CONTROL SYSTEM TO PREVENT CROSS CONTAMINATION.

LANDSCAPE LEGEND

	PROPOSED CANOPY TREE
	PROPOSED EVERGREEN TREE
	PROPOSED SHRUB
	STONE AGGREGATE MULCH
	PENNINGTON SIGNATURE SERIES, ELITE TURF TYPE TALL FESCUE BLEND, INCLUDING AT LEAST (3) NTEP TRIAL HIGH PERFORMING TURF TYPE TALL FESCUE VARIETIES: REBEL IV, JUSTICE, REBAL EXEDA. OR SIMILAR, SEED AT A RATE OF 5-8 LBS/ 1000 SF.
	DOUBLE SHREDDED HARDWOOD MULCH. SEE SPECS

CARRIAGE HOUSE PLANTING SCHEDULE

Count	Key	Scientific Name	Common Name	Size	Condition
Shrubs					
8	HYD-Q	Hydrangea quercifolia	Oakleaf Hydrangea	3 Gal, 24" min Ht	Cont.
25	THU-G	Thuja occidentalis 'Green Giant'	Green Giant Arborvitae	6' min Ht	Cont.

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

CARRIAGE HOUSE PLANTING PLAN

LP101.4

1A **PLANTING, SHRUB**
3/4" = 1'-0"

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

PLANTING DETAILS

LP501.4

WOOD FRAMING KEY NOTES

1. 8" CONCRETE BLOCK WALLS w/ #5 @ 32" o.c. VERTICAL & HORIZONTAL JOINT REINFORCEMENT @ 16" o.c. GROUT ALL BLOCK CORES SOLID.
2. EXISTING 2x10 FRAMING TO HAVE NEW 2x14 SISTERED AND ATTACHED WITH (2) ROWS OF 10d NAILS @ 8" o.c. STAGGERED. NEW 2x14 TO BE NOTCHED AT ENDS TO BEAR ON EXISTING WALLS.
3. EXISTING 2x10 FRAMING TO HAVE NEW 2x10 SISTERED AND ATTACHED WITH (2) ROWS OF 10d NAILS @ 8" o.c. STAGGERED. SISTERED MEMBERS TO BEAR ON NEW CMU WALL w/ SIMPSON STRONG-TIE MBHU3.56/9.25KT HANGER. NEW MEMBER TO BEAR ON EXISTING WALL ON OPPOSITE END.
4. EXISTING 2x12 FRAMING TO HAVE NEW 2x12 SISTERED AND ATTACHED WITH (2) ROWS OF 10d NAILS @ 8" o.c. STAGGERED.
5. EXISTING MULTI-PLY WOOD BEAM TO BE REINFORCED WITH NEW MC12x40. NEW STEEL BEAM TO ATTACH TO EXISTING WOOD BEAM w/ NEW 3/4" THRU-BOLTS @ 12" o.c. SEE DETAIL 10/SS00.4.
6. EXISTING MULTI-PLY WOOD POST TO BE REINFORCED WITH (2) NEW MC8x18 POST. NEW MC POSTS TO BE SISTERED TO EXISTING POSTS FROME BASE TO BOTTOM OF BEAM w/ 3/4" THRU-BOLT @ 12"
7. EXISTING 2x12 FRAMING TO HAVE NEW 2x12 SISTERED AND ATTACHED WITH (2) ROWS OF 10d NAILS @ 8" o.c. STAGGERED. NEW MEMBER TO BEAR ON EACH END.
8. 2x12 JOISTS AT 12" o.c. MAX. BEARING ON GIRDERS WITH SIMPSON STRONG-TIE LUS210 GALV. HANGER - PPT SOUTHERN PINE No. 2 OR BETTER.
9. 8x8 PPT TIMBER POST - PROVIDE SIMPSON STRONG-TIE "CB88 GALV." CAST IN POST BASE.
10. (2) 2x12 GIRDERS ATTACHED TO NEW TIMBER POSTS WITH (6) SIMPSON STRONG-TIE SDWS TIMBER SCREWS (SDWS22600DB) OR APPROVED EQUIVALENT - PPT SOUTHERN PINE No. 2 OR BETTER.
11. (2) 2x12 GIRDERS ATTACHED TO NEW SISTERED JOIST WITH SIMPSON STRONG-TIE HANGER (U210-2) AND BEAR ON WALL ON OTHER END - PPT SOUTHERN PINE No. 2 OR BETTER.
12. EXISTING MULTI-PLY WOOD POST TO BE REINFORCED WITH NEW MC8x18 POST. NEW MC POSTS TO BE SISTERED TO EXISTING POSTS FROME BASE TO BOTTOM OF BEAM w/ 3/4" LAG BOLT @ 12". SEE DETAIL 11/SS00.4.
13. EXISTING MULTI-PLY WOOD BEAM TO BE REINFORCED WITH NEW MC10x22 POST. NEW MC BEAM TO BE SISTERED TO EXISTING BEAM w/ 3/4" LAG BOLT @ 8". SEE DETAIL 11/SS00.4.
14. NEW 2x10 FRAMING TO CAP ELEVATOR SHAFT SUPPORTING 3/4" PLYWOOD/OSB. SEE DETAIL 13/SS00.4
15. 4x4 PPT TIMBER POST - PROVIDE SIMPSON STRONG-TIE "CB44 GALV." CAST IN POST BASE FOR RAILING.

FRAMING PLAN NOTES

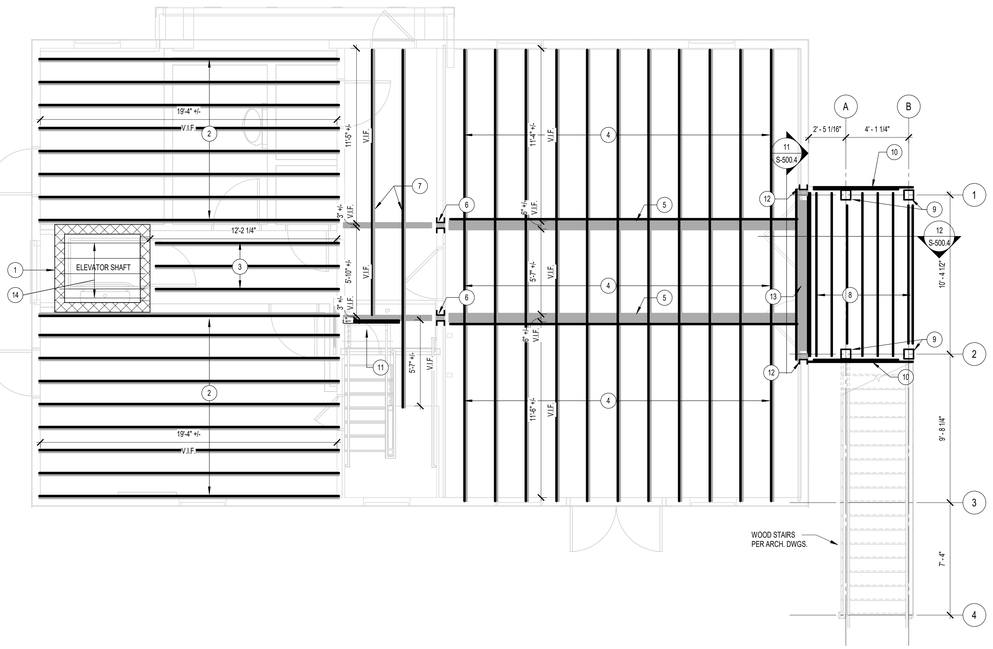
1. REF. S-600.4 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.
2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
3. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0" (MATCH EXISTING & SEE CIVIL DRAWINGS FOR U.S.G.S.).
4. ALL NEW WOOD FRAMING MEMBERS TO BE #1 SOUTHERN PINE U.N.O.
5. ALL NEW WOOD FRAMING SISTERED TO EXISTING MEMBERS SHALL HAVE MINIMUM 3" OF BEARING ON ALL WALLS AND BEAMS.
5. REF. S-500.4 FOR TYPICAL FRAMING DETAILS.
6. REF. S-500.4 FOR TYPICAL MASONRY DETAILS.
7. PLAN LEGEND:

T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
EOD	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.)
EOL	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.)
C.L.	DENOTES CENTERLINE

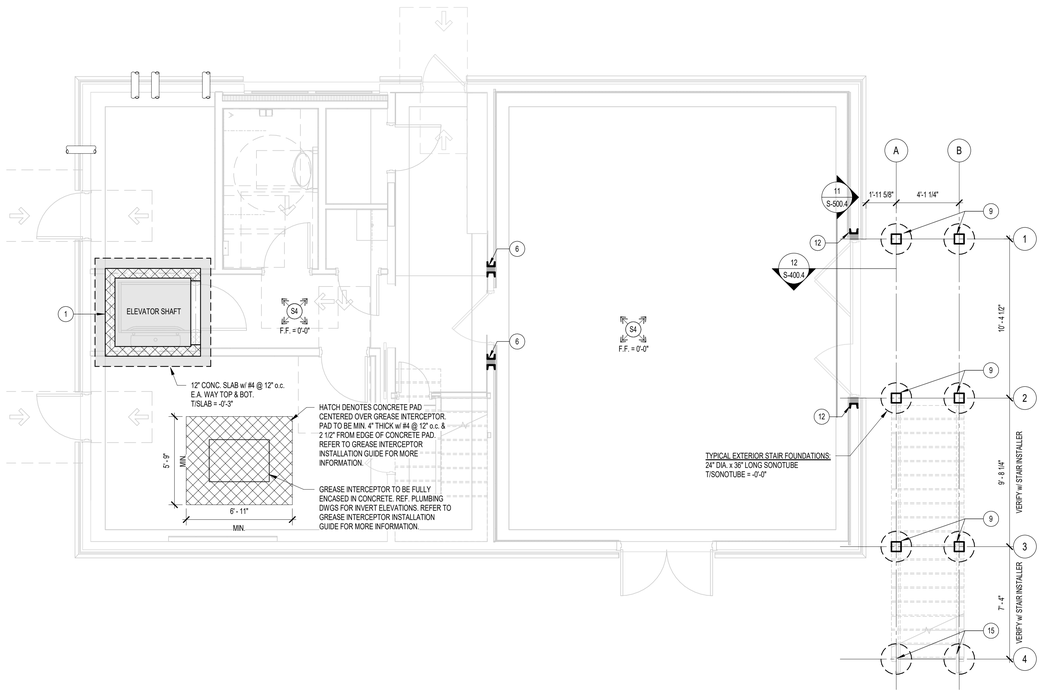
FOUNDATION PLAN NOTES

1. REF. S-600.4 FOR STRUCTURAL NOTES AND DESIGN DATA.
2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
3. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.
4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0" (MATCH EXISTING & SEE CIVIL DRAWINGS FOR U.S.G.S.).
5. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
6. REF. S-400.4 FOR TYPICAL FOUNDATION DETAILS.
7. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER. SEE TYPICAL DETAIL 4/S-400.4.
8. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.
9. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS-ON-GRADE ALONG COLUMN CENTERLINES AND INTERMITTENTLY AT A MAXIMUM SPACING OF 36 X SLAB THICKNESS (I.E. 12' O.C. MAX FOR 4" THICK SLAB). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. SEE DETAIL 2/S-400.4.
10. PLAN LEGEND:

S4	DENOTES 4" THICK CONCRETE SLAB-ON-GRADE w/ FIBERFORCE 300 @ 1.5 LB/C.Y. (OR APPROVED EQUAL) & E5 INTERNAL CURE ADMIXTURE @ 4 OZ/CWT OVER 15-MIL CLASS A VAPOR BARRIER OVER 6" COMPACTED GRANULAR FILL T/SLAB = +0'-0" (MATCH EXISTING)
	DENOTES PIPE PENETRATIONS UNDER EXIST. FOUNDATION. COORDINATE w/ PLUMBING DRAWINGS FOR EXACT SIZE, LOCATION, AND INVERT ELEVATION. REF. DETAILS ON S400.4
SOG / S.O.G.	DENOTES SLAB-ON-GRADE
F.F. / FFE	DENOTES FINISHED FLOOR ELEVATION
T/C	DENOTES TOP OF CONCRETE ELEVATION
T/F	DENOTES TOP OF FOOTING ELEVATION



3 SECOND FLOOR FRAMING PLAN
1/4" = 1'-0"



1 FOUNDATION PLAN
1/4" = 1'-0"

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Brook, IN 47922

George Ade Historic Preservation Commision

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

FOUNDATION PLAN & SECOND FLOOR FRAMING PLAN

SF101.4

SF101.4_FOUNDATION PLAN & SECOND FLOOR FRAMING PLAN
2021036.GAH_George Ade Historic Preservation Commision_CARRIAGE HOUSE INTERIOR AND EXTERIOR_
C:\Users\rmd\Documents\Revit\2025\2021036 - George Ade Carriage Building\2021-036.GAH_BldgRFL_D_R25_Central_jmalley.rvt
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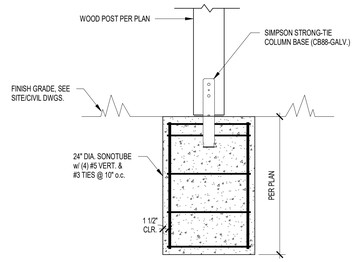
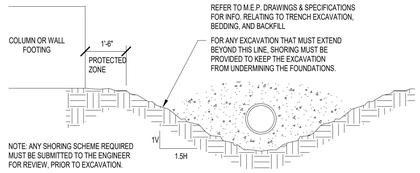
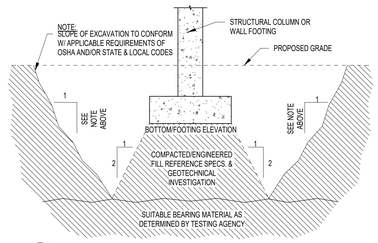


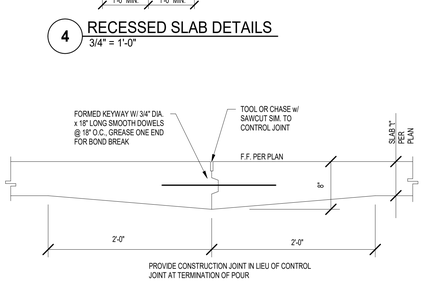
10 SONOTUBE FOUNDATION DETAIL
3/4" = 1'-0"



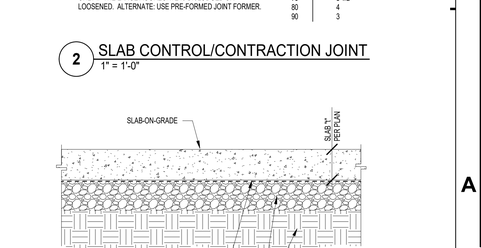
9 EXCAVATION LIMITS DETAILS
3/4" = 1'-0"



8 OVEREXCAVATION DETAIL - COMPACTED FILL
1/2" = 1'-0"

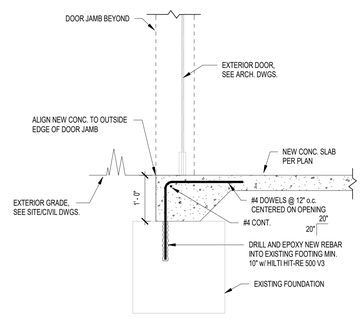


5 NEW-TO-EXISTING SLAB-ON-GRADE DETAILS
3/4" = 1'-0"

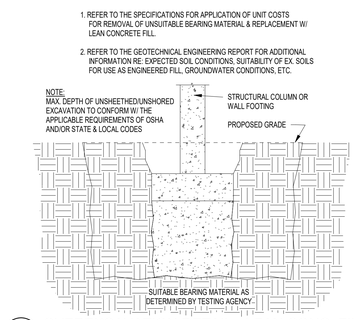


4 RECESSED SLAB DETAILS
3/4" = 1'-0"

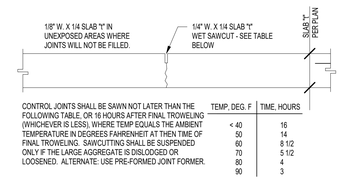
3 SLAB CONSTRUCTION JOINT
1" = 1'-0"



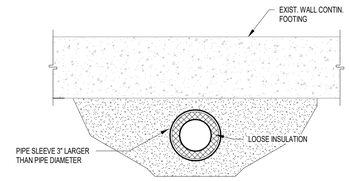
12 FOUNDATION DETAIL
3/4" = 1'-0"



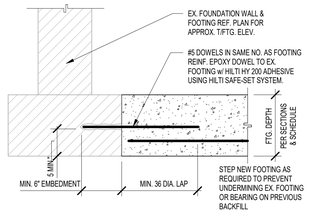
7 OVEREXCAVATION DETAIL - LEAN CONC. FILL
1/2" = 1'-0"



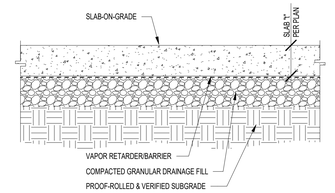
2 SLAB CONTROL/CONTRACTION JOINT
1" = 1'-0"



11 FOUNDATION PIPE SLEEVE UNDER WALL DETAIL
3/4" = 1'-0"



6 NEW-TO-EXISTING FOOTING DETAIL
3/4" = 1'-0"



1 SLAB ON GRADE CONSTRUCTION
1" = 1'-0"

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced RMD JMS

ROBERT M. DEE
REGISTERED
No. 10100205
STATE OF INDIANA
PROFESSIONAL ENGINEER

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#	Revision	Date

3705 IN- 16
Brook, IN 47922

George Ade Historic Preservation Commision

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

TYPICAL FOUNDATION DETAILS

S-400.4

S-400.4_TYPICAL FOUNDATION DETAILS
2021-036 Safe_George Ade Historic Preservation Commision_CARRIAGE HOUSE INTERIOR AND EXTERIOR_
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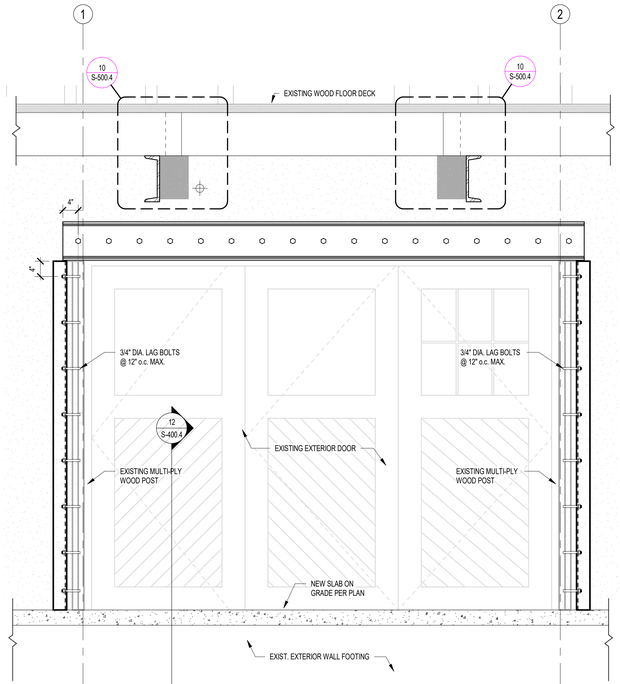
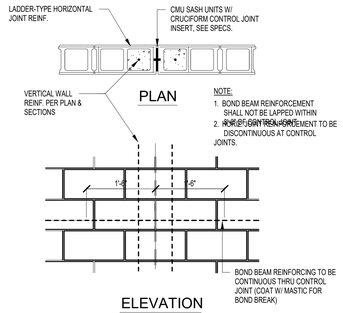
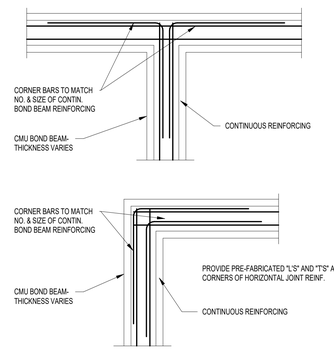


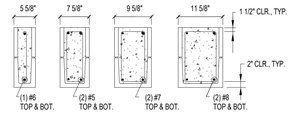
11 NEW EXTERIOR DOOR FRAME DETAIL
3/4" = 1'-0"

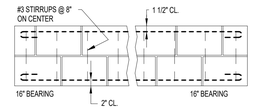


8 CMU CONTROL JOINT DETAIL
3/4" = 1'-0"



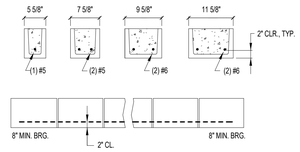
7 BOND BEAM INTERSECTION DETAILS
3/4" = 1'-0"





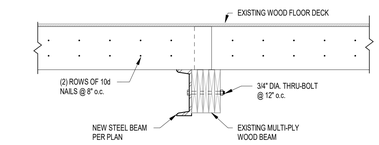
CMU LINTEL NOTES:
1. FILL IS 2,500 PSI (MINIMUM) GROUT.
2. ALL REBARS ARE HOOKED AT THE ENDS.
3. FOR TYPE OF CMU SEE THE SPECS.
4. LINTELS SHALL BEAR ON SOLIDLY GROUTED CMU. THIS SCHEDULE DOES NOT APPLY TO LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
6. BOND PATTERN OF LINTEL TO BE RUNNING BOND, U.N.O.
7. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
8. CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAY MINIMUM).

4 LONG CMU LINTEL DETAILS
3/4" = 1'-0"

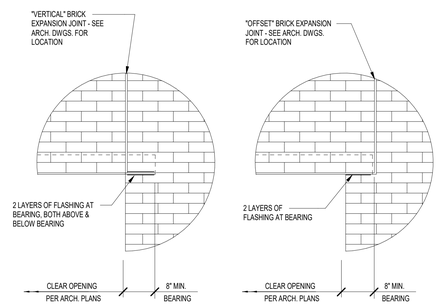


CMU LINTEL NOTES:
1. FILL IS 2,500 PSI (MINIMUM) GROUT.
2. PROVIDE 1" BRG. PER FOOT OF SPAN WITH 8" MIN.
3. LINTELS SHALL BEAR ON SOLIDLY GROUTED CMU
4. THIS SCHEDULE DOES NOT APPLY TO LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
5. BOND PATTERN OF LINTEL TO BE RUNNING BOND, U.N.O.
6. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
7. CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAY MINIMUM.)
8. PRECAST LINTELS MAY NOT BE SUBSTITUTED FOR BOND BEAM LINTELS.

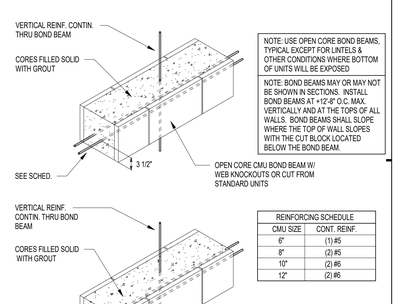
3 CMU LINTEL DETAILS
3/4" = 1'-0"



10 REINF. EXISTING MULTI-PLY WOOD BEAM
3/4" = 1'-0"

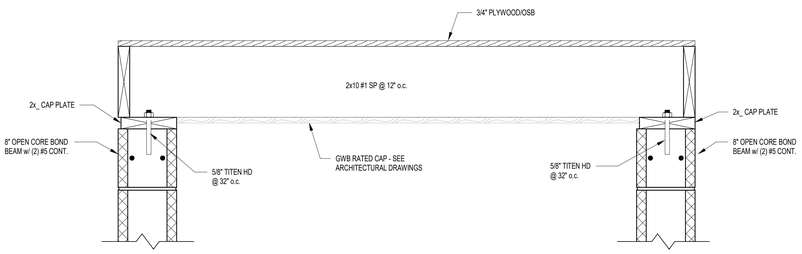


6 LINTEL BEARING DETAILS
3/4" = 1'-0"

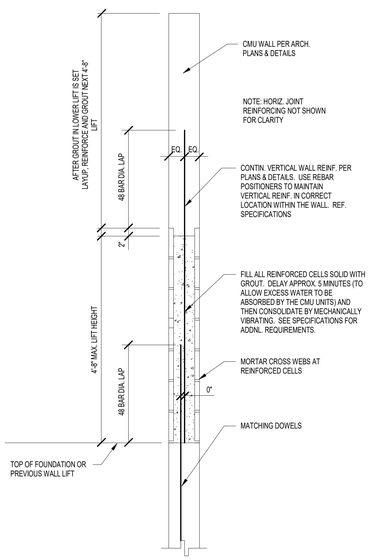


REINFORCING SCHEDULE	
CMU SIZE	CONT. REINF.
6"	(1) #5
8"	(2) #5
10"	(2) #6
12"	(2) #6

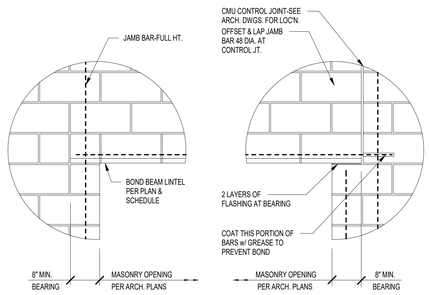
2 CMU BOND BEAM DETAILS
3/4" = 1'-0"



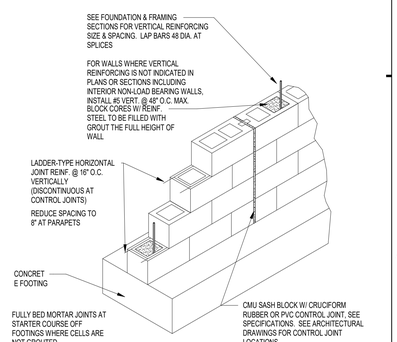
13 ELEVATOR CAP FRAMING DETAIL
1 1/2" = 1'-0"



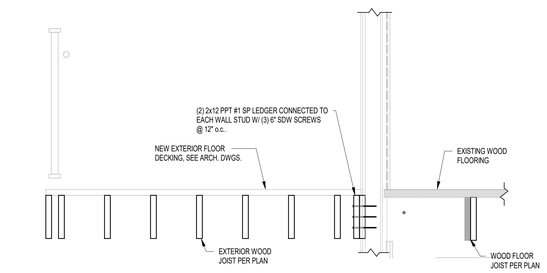
9 LOW-LIFT WALL CONSTRUCTION
3/4" = 1'-0"



5 BOND BEAM BEARING DETAILS
3/4" = 1'-0"



1 REINFORCED MASONRY DETAIL
3/4" = 1'-0"



12 FRAMING SECTION
3/4" = 1'-0"

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#	Revision	Date

3705 IN- 16
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George Ade Historic Preservation Commision

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

FRAMING & MASONRY DETAILS

S-500.4

S-500.4_FRAMING & MASONRY DETAILS
2021036.GAH_George Ade Historic Preservation Commission_CARRIAGE HOUSE INTERIOR AND EXTERIOR_
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WOOD SHRINKAGE NOTES

The following is a list of recommendations to minimize potential issues related to wood shrinkage and veneer expansion (A portion of clay masonry veneer expansion is irreversible and a portion is seasonal. The majority of wood shrinkage will occur in the first 12-18 months of occupancy. The majority of irreversible clay masonry veneer expansion will occur in the first few weeks, but will continue at a lower rate for several years. Thermal movement is seasonal and variable depending on ambient temperature and sun exposure. The following is a list of recommendations to minimize potential issues related to wood shrinkage and veneer movement.

1. Refer to other notes and details to see estimated differential movement between wood framing and brick veneer. If not shown otherwise, a differential movement of 0.15" per floor shall be used for backing of light wood framing for up to 3 stories and 0.20" per floor shall be used for backing of light wood framing for up to 5 stories.

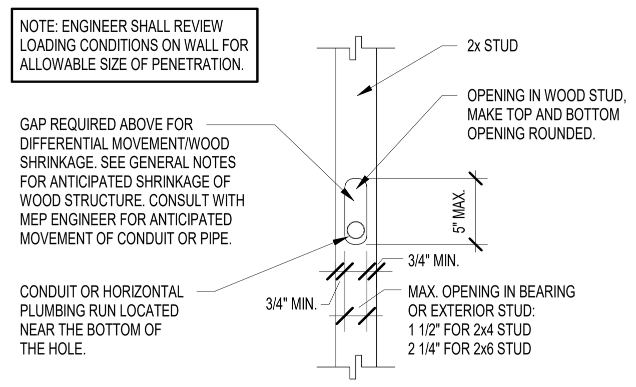
2. MEP System Considerations
   - A. All plumbing pipe and electrical conduit joints and connections shall be flexible and allow for expansion/contraction to prevent a rigid assembly. The use of expansion or slip joints in vertical plumbing runs to allow for wood framing shrinkage is recommended. If not used, another means of mitigating the problem will be required.
   - B. In lieu of or in addition to A above, provide oversized and vertically slotted holes at pipe horizontal penetration and notches. Refer to typical notching and cutting of stud wall detail for additional considerations on size limitations. Do not exceed the hole sizes allowed by the notes and details and the building code.
   - C. Hangers and necessary rigid connections shall be adjusted prior to completion of construction or closing of wall/ ceiling assembly.
   - D. Vent penetrations shall be provided with double flashing.
   - E. All sheet metal vertical down spouts shall have intermediate slip joints.
   - F. Roof drains shall be adjusted back to the roof finish sheathing elevation at the completion of construction and then shall be adjusted as required to maintain proper drainage.

3. Construction Tolerance Considerations
   - A. All studs shall be cut level, square and tight to top and bottom plates to reduce any additional shortening of the building due to nesting.
   - B. All wood structural panels on the walls shall have a relief gap at each floor level to reduce the potential for bulging.
   - C. All floor sheathing shall have 1/8" gaps around all four sides at time of installation to allow for potential bulging.
   - D. Temporary Expansion Joints in large buildings are required. Follow APA's Technical Note: Temporary Expansion Joints for Large Buildings U425.
   - E. At stucco, EIFS and thin set veneer systems, provide horizontal expansion joints, and slip joints with appropriate flashing.
   - F. At brick and stone veneers, provide veneer ties designed to accommodate differential movement.
   - G. Refer to Architectural window and door head sill and jamb details; parapets; and horizontal material changes for specific horizontal gap requirements between materials.
   - H. Delay placement of self-leveling gypsum underlayment/topping around stair and elevator towers until completion of construction.

4. Material Storage and Protection
   - A. All stored material shall remain covered from the elements to reduce and elevated off the ground to reduce the potential for an increase in moisture content.
   - B. Do not allow water to pond on installed floor sheathing. Provide drain holes in the floor sheathing as required to relieve any water that might temporarily pond.

5. Post Occupancy Consideration
   - A. Review roof drains every 3 months for the first 18 months of occupancy and then annually. Adjust as needed.
   - B. Sealant Joints at exterior doors, windows and at changes in materials shall be reviewed and caulked as needed as wood shrinkage and veneer expansion occurs and original joint is distressed or fails.
   - C. Remedial Self-Leveling work may be required around concrete or CMU stair and elevator towers as needed as wood shrinkage occurs.

NOTE: ENGINEER SHALL REVIEW LOADING CONDITIONS ON WALL FOR ALLOWABLE SIZE OF PENETRATION.



STUD HOLE SHRINKAGE DETAIL

STRUCTURAL STEEL NOTES

1. Structural steel construction shall conform to the American Institute of Steel Construction "Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design."
2. All structural wide flange shapes shall be ASTM A-992, Fy=50 ksi.
3. All plates, channels, bars, angles, and rods shall be ASTM A36, unless noted otherwise.
4. All pipe shapes shall be ASTM A53, Type E, Grade B.
5. All square and rectangular shapes shall ASTM A500, Grade B.
6. Details for design, fabrication and erection of all structural steel shall be in accordance with the latest AISC Standards, unless otherwise noted or specified.
7. Provide temporary erection guying and bracing as required.
8. Unless otherwise shown or noted on the Plans, provide 8" bearing each end for all loose lintels and beams.
9. For loose lintels, masonry shelf angles and other such items generally not shown on the Structural Plans, see the Architectural Plans. See general notes on lintels this sheet for sizes, reinforcing, etc.
10. Steel columns below grade shall be encased in a minimum of 4" concrete or painted with 2 coats asphaltum, unless otherwise shown.
11. Fabricate simple span beams not specifically noted to receive camber so that after erection, any minor camber due to rolling or shop assembly be upward.
12. Reference Specification Section 051200 - Structural Steel of the Project Manual for structural steel shop painting requirements.
13. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.
14. Provide cap plates/end plates to close off exposed, open ends of all tubular members, unless noted otherwise.
15. All columns shall have 3/4" cap plates, unless noted otherwise.

STEEL CONNECTION NOTES

1. Typical beam-to-beam and beam-to-column connections shall be bearing type using A325-N bolts, unless noted otherwise.
2. Shop connections unless otherwise shown, may be either bolted or welded. All field connections shall be bolted unless otherwise shown on the Structural Drawings.
3. Connections shall be designed by the Steel Fabricator in accordance with Table 3-6 of the AISC "Manual of Steel Construction, 14th Edition". For composite beams where reactions are not indicated, design connections for 75% of the Maximum Total Uniform Load ASD value for the applicable beam size and span given in Table 3-6. For non-composite beams, design connections for 50% of the tabulated ASD value. Where this criteria results in an unusual or unreasonable connection, Steel Fabricator shall include on their shop drawing submittal a proposed connection along with the allowable reaction capacity for EOR review and approval. Such conditions shall be individually clouded and noted "EOR VERIFY" in the submittal.
4. All beam-to-beam connections shall be double angle, unless shown or noted otherwise.
5. All beam-to-beam connections shall be at the column centerline, unless noted otherwise. Shear tab connections to tubes are permitted.
6. Typical beam-to-beam, and beam-to-column field-bolted connections may be tightened to the snug-tight condition, unless otherwise shown or noted. Bolted connections in moment frames, bracing connections, and those designated F.T. (fully-tensioned) on the Plans shall be fully-tensioned connections utilizing load-indicating washers, or twist-off bolts.
7. All welding shall be in conformance with AWS D1.1, using E70XX electrodes, unless shown or noted otherwise.
8. Backup bars required for welded connections shall be continuous.
9. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes in structural steel shall not be allowed without approval of the Architect/Engineer.
10. Permanent machine bolts, using an approved type of self-anchoring hex nut, may be used for minor connections as closures, etc.
11. Minimum thickness of all connection material to be 5/16" unless noted.
12. Grout beneath base plates and under preset bearing plates shall be non-shrink, non-metallic grout (8,000 psi, minimum). Provide double nuts for adjustment of column base plates, unless noted otherwise.
13. Continuous bent plate and angle closures, clip angles, etc. around perimeter of the floor and roof, as well as around openings shall be welded with a minimum 1/4" fillet weld, 3" at 12" o.c., top & bottom, unless noted otherwise. For continuous perimeter angles and bent plates perpendicular to, and connected to the top chords of joists, provide a minimum 3" of 1/4" weld at each joist. Continuous angle and bent plate closures may be shop-applied when requested and approved by Engineer of Record.
14. Where steel beams are called to have wood nailers supporting wood floor or roof framing, provide 1/2" diameter A307 machine bolts spaced at 24" on center and staggered each side of the beam web, unless noted otherwise.
15. A qualified independent Testing Agency shall be retained to preform testing of field welds as follows:
    - A. All field welds shall be visually inspected.
    - B. 100% of all moment and bracing connections shall be inspected.
    - C. 10% of bolted bearing type connections.
    - D. All testing shall be done in accordance with the latest A.W.S. and AISC standards.

WOOD FRAMING NOTES

1. For wood connections not specifically noted or detailed, follow the requirements of IBC 2012 Table 2304.9.1 or ESR 1539.
2. All nails are common nails unless noted otherwise. All nails shall be carefully driven and not overdriven. Submit all proposed fasteners for approval prior to construction. Installation of all fasteners shall meet the requirements of NDS and ISANTA guidelines, including those in ESR 1539, and Section 2303.6 of the IBC.
3. Refer to the Wall Schedules and/or Framing Plans for size, spacing, and species of wall studs and plates. If not shown otherwise, studs and plates are to be #1 or #2 Spruce-Pine-Fir (SPF) with stud spacing 16" o/c maximum. If not shown otherwise, bearing wall headers are to be #2 Southern Pine (SYP).
4. At the contractor's discretion, studs in non-load bearing interior walls may be premium stud grade spaced at 16" o.c. on all levels.
5. Fasten double (DBL) studs together with 0.131" x 3" nails at 6" o.c. unless noted otherwise. For more than two studs, fasten in the same way, nailing as each stud is added.
6. See the header schedule for all header sizes and materials. All headers in non-load-bearing interior walls are to be (2) 2x4 #2 SPF for openings up to 4'-0" and (2) 2x6 #2 SPF for openings over 4'-0". All headers in non-load-bearing walls to have (1) jack stud at each end.
7. Refer to the Shear Wall Schedule for sheathing, nailing, strap ties, hold downs, etc. required for wood-panel-sheathed and gypsum-wallboard-sheathed shear walls.
8. Use double top plates on all walls, including non-load-bearing walls, with all splices and corners lapped. At "T" intersections do not lap top plate of intersecting wall cutting the top plate of the continuous wall, rather use a metal tie plate as described in the exception to Section 2308.9.2.1 of the IBC.
9. Unless otherwise noted on plan or detail, anchor wall plates to foundations and/or supporting structure using Simpson Strong Tie Titen HD Heavy Duty Screw Anchors, 5/8" diameter with minimum 5" embedment. Space anchors at 48" o.c. for load-bearing and non-load-bearing walls. Reduce spacing to 24" o.c. for all shear walls.
10. Coordinate final floor and roof framing including joist or truss layout & truss member configuration with Mechanical, Electrical, & Plumbing (MEP) drawings. Obtain additional MEP information as needed for complete coordination. Keep all mechanical chases free of framing. Do not locate joists or trusses at parallel plumbing walls.
11. Always bear floor and roof joists or trusses on available interior and exterior bearing walls. Do not clear-span framing disregarding an available bearing wall where such a bearing wall is identified.
12. Where floor trusses are used, use a minimum of (2)4x2 vertical members in floor trusses at all bearings unless noted otherwise. One of these verticals may be under a ribbon board at the end of the truss where ribbon boards are allowed. Do not allow for, nor use ribbon boards at the ends of trusses where solid, continuous full-height blocking or continuous wood-sheathed knee walls are indicated to be used. Where ribbon boards are used with floor trusses they are to be 2x6 minimum.
13. Design roof joists or trusses to support the weight of snow drifting where it applies, as well as rooftop mechanical units, exhaust fans, access hatches, etc. Confirm weights & locations before final design and show the loads for these units/fixtures on the sealed drawings. The Contractor shall ensure the units are installed at their design locations.
14. Where framing supported by a joist or truss can cause uplift on that joist or truss (such as at cantilevered balcony framing) the designer shall consider a load case that maximizes the uplift load in combination with no live load applied to the joist or truss supporting the uplift.
15. All exposed framing to be pressure preservative treated wood (PPT) as described in the Specifications. All PPT wood to be kiln dried after treatment (KDAT). Hardware used with PPT wood to be hot-dip galvanized or stainless steel.
16. All hardware to be Simpson Strong Tie or approved equal. Where hardware is not specifically designated, submit proposed hardware for approval. Where more than one type of fastener or fastener pattern is allowed by the hardware manufacturer, hardware fasteners are to be of the type, size, and quantity to maximize the load capacity of the hardware in the specific application shown on these plans, unless noted otherwise.
17. Where a wood-framed wall backs up a non-structural masonry veneer, ties must be fastened to the wood framing members using screws meeting the requirements of the tie manufacturer. Where the tie manufacturer allows the use of nails, ring shank nails must be used. Smooth shank nails may never be used to attach masonry ties to wood framing.
18. Reference the Architectural Plans for layout of all walls, openings, wall types, etc. Verify all dimensions prior to design of wall panels & immediately notify the Architect and Engineer of any discrepancies.
19. Where a Specialty Structural Engineer designs floor and/or roof framing (such as trusses or I-joists), the floor and/or roof designer shall provide the Wall Panel Designer the loads/reactions and locations of all girder or beam bearing points. The Wall Panel Designer shall specify and the Wall Panel Manufacturer shall install sufficient columns/studs to support all such loads from the girder or beam bearing location down to the supporting foundation or podium framing. The Contractor shall ensure the presence of such columns/studs. Similarly, where walls are field-framed, the Framing Contractor shall install the columns/studs for support of girders and beams. As a minimum, the number of studs shown on the plans shall be used, with a minimum of (2) 2x6 or (3) 2x4 studs.
20. At bearing walls, blocking must be added in the floor system to create continuity of all shear wall chord studs, posts and columns, jack/king studs at headers, etc. Such blocking shall be part of the sheathed shear blocking panels, or knee walls where they are used. Where there are wood walls below, these studs, columns, posts, etc. must be present in those walls as well creating a continuous load path to structural steel, the foundation, or other identified adequate support.
21. Where decks or balconies are wood-framed, if the railing relies on a connection to the wood balcony beams or rim joists for stability and load resistance, then the railing designer shall check torsion and other effects on the edge beams or joists and their connections.

GENERAL NOTES

1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work. The Engineer will not advise on, nor issue direction as to safety precautions and programs.
2. The Structural Drawings herein represent the finished structure. The Contractor shall provide all temporary guying and bracing required to erect and hold the structure in proper alignment until all Structural Work and connections have been completed. The investigation, design, safety, adequacy and inspection of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor.
3. The Engineer shall not be responsible for the methods, techniques and sequences are not specifically shown, similar details of construction shall be used, subject to approval of the Engineer.
4. Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval of the Engineer.
5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the Supplier's instructions and requirements.
6. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members. The live loading used in the design of this structure are indicated in the "Design Criteria Notes." Do not apply any construction loads until structural framing is properly connected together and until all temporary bracing is in place.
7. All ASTM and other referenced standards and codes are for the latest editions of these publications, unless otherwise noted.
8. Shop drawings and other items shall be submitted to the Engineer for review prior to fabrication. All Shop Drawings shall be reviewed by the Contractor before submittal. The Engineer's review is to be fore conformance with the design concept and general compliance wiht the relevant Contract Documents. The Engineer's review does not relieve the Contractor of the sole responsibility to review, check, and coordinate the Shop Drawings prior to submission. The Contractor remains solely responsible for errors and omissions associated with the preparation of Shop Drawings as they pertain to member sizes, details, dimensions, etc.
9. Submit Shop Drawings in the form of blueline/blackline prints (min. 2 sets/ max. 5 sets) and one reproducible blackline or sepia copy. In no case shall reproductions of the Contract Documents be used as shop drawings. As a minimum, submit the following items for review.
   - A. Concrete Mix Design(s).
   - B. Reinforcing Steel Shop Drawings.
   - C. Structural Steel Shop Drawings.
   - D. Wood Stairs Shop Drawings.
   - E. Masonry Reinforcing Shop Drawings.
10. When calculations are included in the submittals for components of work designed and certified by a Specialty Structural Engineer, the reivew by the Structural Engineer of Record (SER) shall be for conformance with the relevant Contract Documents. The SER's review does not relieve teh Specialty Structural Engineer from responsiblity for the design of the system(s) and teh coordination with the elements of the structure under the certification of the Engineer of Record, or other Specialty Structural Engineer. The SER's review does not constitute a warranty of the accuracy or completeness of the Specialty Structural Engineer's design.
11. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.
12. No structural member may be cut, notched, or otherwise reduced in strength without written direction from the Engineer of Record.
13. When modifications are proposed to structural elements under the design and certification of a Specialty Engineer, written authorization by the Specialty Engineer must be obtained and submitted to the Engineer of Record for review, prior to performing the proposed modification.

COORDINATION WITH OTHER TRADES

1. The Contractor shal coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and overrides, etc. and notify the Architect/Engineer of any discrepancies before proceeding with any work in the area under question.
2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications. The Contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes, and other items to be placed or set in the Structural Work.
3. There shall be no vertical or horizontal sleeves set, or holes cut or drilled in any beam or column unless it is shown on the Structural Drawings or approved in writing by the Engineer of Record.
4. Mechanical and electrical openings through supported slabs and walls, 8" diameter, or larger not shown on the Structural Drawings must be approved by the Engineer of Record. Openings less than 8" in diameter shall have at least 1'-0" clear between openings, unless approved in writing by the Engineer of Record.
5. Verify locations and dimensions of mechanical and electrical openings through supported slabs and walls shown on the Structural Drawings with the Mechanical and Electrical Contractors.
6. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or noted on the Structural Drawings.
7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck.
8. The Mechanical Contractor shall notify the Engineer of Record of any Mechanical Unit supported by the structure not shown on the Structural Drawings, whose weight is greater than 500 lbs.
9. The Mechanical Contractor shall verify that mechanical units supported by the steel framing are capable of spanning the distance between the supporting members indicated on the Structural Drawings. The Mechanical Contractor shall supply additional support framing as required.
10. If drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

EXISTING CONSTRUCTION

1. The contractor shall field verify the dimensions, elevations, etc. necessary for the proper construction and alignment of the new portions of the work to the existing work. The Contractor shall make all necessary measurements for fabrication and erection of the structural members. Any discrepancy shall be immediately brought to the attention of the Engineer of Record.
2. Before proceeding with any work within the existing facility, the Contractor shall familiarize himself with existing structural and other conditions. Any shoring shown or noted on the Plans is a partial and schematic representation of that required. It shall be the Contractor's responsibility to provide all necessary bracing, shoring, and other safeguards to maintain all parts of the work in a safe condition during the progress of demolition and construction, and to protect from damage those portions of the existing work which are to remain. Shoring shall remain in place until the structural work is complete, has been inspected by the Testing Agency, and is certified to be in substantial compliance with the Contract Documents.
3. When required by the Specifications or by Plan Note, the Contractor shall submit for the Engineer of Record's review, a "Proposed Shoring Plan," including, but not limited to: plans, sections, details, notes, description of proposed sequence of work, and calculations prepared by, or under the supervision of a Professional Engineer (Specialty Engineer). The Specialty Engineer shall be registered in the State where the project is located.
4. Welding to and within an existing facility presents potential hazards including:
   - A. Fire Hazard - Due to the existing construction and building contents.
   - B. Structural Liquefaction - Due to welding across the full section of the structural members.

   Recommendations to prevent these hazards include:
   - A. Fire Hazard - Protect existing combustibles prior to welding. Keep a separate watchman and several fire extinguishers on hand.
   - B. Structural Liquefaction - weld in small increments. Allow welds to harden before continuing to the next increment.
   - C. Do not leave the site until satisfied that no fire hazard exists.
   - D. Preference should be given to the use of beam clamps, mechanical fasteners, or bolted connections in lieu of welding within existing facilities, whenever possible. Do not field-drill existing structural members without the written permission of the Engineer of Record.
5. When drilling into existing concrete beams/columns/joists, the contractor is strongly encouraged to use rebar detection devices to locate existing rebar prior to drilling. Drilling through existing concrete column vertical rebar and/or existing concrete beam/joist horizontal rebar may compromise the structural integrity and is strictly prohibited. Therefore, contractor shall stop drilling immediately upon contacting any of these reinforcing types, move drill over, and re-attempt. Contractor shall anticipate having to make repeated attempts at drilling into existing concrete when submitting their bid. Structural steel elements which are to be bolted to existing concrete members and which have holes pre-punched in the shop, may have multiple sets of staggered pre-punched holes to accommodate the possibility of encountering rebar within the existing concrete. Alternatively, holes may be mag-drilled in the structural steel element in the field as needed and at the fabricator/erector's expense.

   Vertical core-drilled holes through existing slabs shall NOT cut through any portion of the existing beams or joists. They must be carefully positioned to be between existing joists.

   Horizontal core-drilled holes through existing beams are permitted, but the bottom of the core shall NOT be located within 5" of the bottom of the concrete beam unless specifically approved by the A/E in writing.

   Horizontal core-drilled holes larger than 7/8" diameter through existing joists are NOT permitted. Holes up to 7/8" diameter are permitted but shall NOT be located within 4" of the bottom of the concrete joist unless specifically approved by the A/E in writing.

   Where multiple small core-drilled holes for electrical or technology are required (i.e. up to 1" diameter), holes shall be spaced a minimum of 3" O.C. in order to provide a minimum of 2" clearance between the holes.

DESIGN CRITERIA

1. DESIGN STANDARDS: The intended design standards and/or criteria are as follows:

General	2014 Indiana Building Code (i.e. 2012 International Building Code with Indiana amendments)
Concrete	ACI318
Masonry	ACI 530
Steel	AISC Manual, Allowable Stress Design (ASD)
Wood	NDS

   All referenced standards and codes, as well as ASTM numbers are for the latest editions of these publications, unless otherwise noted.
2. DEAD LOADS: Gravity Dead Loads used in the design of the structure are as computed for the materials of construction incorporated into the building, including but not limited to walls, floors, ceilings, stairways, fixed partitions, finishes, cladding and other similar architectural and structural items, as well as mechanical, electrical and plumbing equipment and fixtures, and material handling and fixed service equipment, including the weight of cranes.
3. LIVE LOADS: Gravity Live Loads used in the design of the structure meet, or exceed the following table (IBC, Table 1607.1):

OCCUPANCY OR USE:	Uniform (PSF):	Concentrated (LBS): (See Note 1)
A. Access Floor Systems		
1. Office Use	50	2000
C. Assembly Areas		
1. Movable Seats	100	----
D. Decks	100	----

   Note #1: Unless otherwise noted, the indicated concentrated load has been assumed to be uniformly distributed over an area 2.5 feet square.
4. LIVE LOAD REDUCTION: Live load reductions in accordance with IBC 1067.9 have been used with the following exceptions:
   - A. Live loads of 100 PSF or less for public assembly occupancies have not been reduced.
5. PARTITION ALLOWANCE: a uniform partition allowance has been used where indicated above to account for the load of all floors where partition locations are subject to change, unless the specified live load exceeds 80 PSF.
6. COLLATERAL LOAD: Unless otherwise noted, a minimum uniform collateral load of 10 PSF has been used to account for ductwork, ceilings, sprinklers, lighting, etc. The collateral load is in addition to the weight of mechanical units, larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
7. COLLATERAL LOAD ABOVE CORRIDORS & MECHANICAL ROOMS: A minimum uniform collateral load of 20PSF has been used to account for large ductwork, sprinkler mains, concentrations of piping, and electrical distribution above corridors and mechanical rooms. The collateral load is in addition to the weight of mechanical units and larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
8. ROOF LIVE/SNOW LOADS: Gravity Live Loads used in the design of the roof structure meet or exceed the following table:

A. Snow load	
Ground Snow load, Pg	20 PSF
Min. Roof Snow Load, Pm	22 PSF
Snow Exposure Factor, Ce	1.0
Risk Category	III
Importance Factor, Is	1.1
Thermal Factor, Ct	1.0
B. Minimum Roof Live Load	20 PSF
C. Overhang Eaves & Projections (Unheated w/ Ct = 1.2)	24 PSF

   1. Sloped roof snow loads calculated in accordance with Section 7.4, ASCE 7.
   2. Unbalanced roof snow loads calculated in accordance with Section 7.6, ASCE 7. Specialty Engineers must consider unbalanced snow loads in the design of pre-engineered trusses, frames, skylights, curtain walls, cold-formed metal framing, canopies, etc.
   3. Drift loads calculated in accordance with Section 7.7, ASCE 7. Specialty Engineers must consider unbalanced snow loads in the design of pre-engineered trusses, frames, skylights, curtain walls, cold-formed metal framing, canopies, etc.
   4. Roofs used for roof gardens or assembly purposes have been designed for a minimum live load of 100 PSF.
9. HANDRAILS AND GUARDS

A. Handrail Assemblies and Guards	50 PLF applied in any direction 200 lb. Concentrated applied in any direction (non-concurrent with 50 PLF load)
B. Components, Intermediate Rails, Ballusters, Fillers, Etc.	50 lbs. horizontally applied normal load on an area not to exceed 1 square foot not superimposed with those of handrail assemblies.

10. LATERAL LOADS: Lateral loads were computed using the following criteria:

A. Wind Load	
Ultimate Design Wind Speed, V_{ULT}	120 MPH
Nominal Design Wind Speed, V_{ASD}	93 MPH
Wind Exposure Category	C
Risk Category	III
Internal Pressure Coefficient, GCpi	+/- 0.18
B. Seismic Load	
Seismic Design Category	C
Site Classification	C
Risk Category	III
Importance Factor, Ie	1.25
Mapped Spectral Response Coeff., Ss	0.394g
Mapped Spectral Response Coeff., S1	0.156g
Spectral Response Coeff., Sds	0.315g
Spectral Response Coeff., Sd1	0.171g
Analysis Procedure	Equivalent Lateral Force
Basic Seismic Force-Resisting System	Intermediate Reinforced Masonry Shear Walls
Response Modification Coefficient, R	R=3.5
Seismic Response Coeff., Cs	0.113

11. SAFETY FACTORS: This structure has been designed with 'Safety Factors' in accordance with accepted principles of structural engineering. The fundamental nature of the 'Safety Factor' is to compensate for uncertainties in the design, fabrication, and erection of structural building components. It is intended that ' Safety Factors' be sued such that the load-carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of 'Safety Factors' implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

FOUNDATIONS

1. Proofroll slab on grade areas with a medium-weight roller or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil. Any unsuitable materials thus exposed should be removed and replaced with compacted, engineered fill as outlined in the specifications. Proofrolling operations shall be monitored by the Testing Agency.
2. All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 95% of the Standard Proctor maximum dry density (ASTM D-698). All fill which shall be stressed by foundation loads shall be 100% (ASTM D-698). Coordinate all fill and compaction operations with the Specifications and the Subsurface Investigation.
3. Compaction shall be accomplished by placing fill in approx. 8" lifts and mechanically compacting each lift to at least the specified minimum dry density. For large areas of fill, field density tests shall be performed for each 2,500 square feet of building area for each lift as necessary to insure adequate compaction is being achieved.
4. New footings shall bear on firm natural soils or well-compacted engineered fill with assumed allowable bearing pressures:

COLUMN FOOTINGS	2,000 PSF
WALL FOOTINGS	1,500 PSF

   It is essential that the foundations be inspected to insure that all loose, soft or otherwise undesirable material (such as organics, existing fill, etc.) is removed and that the foundation will bear on satisfactory material. The Testing Agency shall inspect the subgade and perform any necessary tests to insure that the actual bearing capacities meet or exceed the design capacities. The Testing Agency shall verify the bearing capacity at each spread column footing and every 10 feet on center for strip footings prior to placement of concrete.
5. Place footings the same day the excavation is performed. If this is not possible, the footings shall be adequately protected against any detrimental change in condition, such as from disturbance, rain and freezing.
6. It is the responsibility of the Contractor and each Sub-Contractor to verify the location of all utilities and services shown, or not shown, and establish safe working conditions before commencing work.
7. The Contractor shall layout the entire building and field verify all dimensions prior to excavation.
8. For information regarding subsurface conditions, refer to the "REPORT OF GEOTECHNICAL ENGINEERING EXPLORATION" prepared by Patriot Engineering and Environmental, Inc., Patriot Project No. 22-1040-03G dated August 18, 2022.

FINISH FLOORS AND SLABS

1. Comply with recommendations of ACI 302.1R for screeding, restraightening, and finishing operations for concrete surfaces. Perform this work in a manner which will provide floor flatness F(f) and floor levelness F(l) criteria specified.
2. Deposit and consolidate concrete floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
   - A. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement, other embedded items and into corners.
   - B. Maintain reinforcement in position on chairs during concrete placement.
   - C. Bring slab surfaces to correct elevation with a straightedge and strike off.
   - D. Slope slab surfaces uniformly to drains where required.
   - E. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plan, free of humps or hollows, before excess moisture or bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations. Provide wokr procedures required to meet F(f) and F(l) requirements and to meet requirements for applied floor finishes specified in Division 9.
3. Unless otherwise specified in the Contract Documents, the minimum F(f) and F(l) numbers shall be met:
   - A. Scratch Finish: While still plastic, texture concrete surface that has been screeded and bull-floated or darbied. Use stiff brushes, brooms, or rakes. Apply scratch finish to surfaces to receive bonded concrete floor topping and other bonded cementitious floor finishes.
     1. Specified overall values of flatness, F(f) 20; and levelness F(l) 15; with minimum local values of flatness F(f) 15; and levelness, F(l) 10.
     2. Option: Finish and measure surface so gap at any point between concrete surface and an unleveled freestanding 10 foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/4".
   - B. Float Finish: Consolidate surface with power driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth, granular texture. Apply float finish to monolithic concrete floor and slab surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing, built-up or membrane roofing, or terrazzo, ceramic tile, and quarry tile set over a cleavage membrane. Uniformly slope surfaces to drains, unless otherwise indicated.
     1. Specified overall values of flatness, F(f) 25; and levelness, F(l) 20; with minimum local values of flatness F(f) 18; and levelness, F(l) 15.
     2. Option: Finish and measure surface so gap at any point between concrete surface and an unleveled freestanding 10 foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 3/16".
   - C. Trowel Finish: After applying float finish, apply first trowel finish and consolidate concrete by power driven trowel or by hand trowel if area is small or inaccessible to power driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth surface defects that would telegraph through applied coatings or floor coverings. Uniformly slope surfaces to drains, unless otherwise indicated. Apply a trowel finish to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, thin-set ceramic or quarry tile, paint, or other thin film finish coating system. Finish surfaces to following tolerances, measured within 24 hours according to ASTM E1155 for a randomly trafficed floor surface:
     1. Specified overall values of flatness, F(f) 35; and levelness, F(l) 25; with minimum local values of flatness F(f) 25; and levelness, F(l) 18.
     2. Option for small areas: Finish and measure surface so gap at any point between concrete surface and an unleveled freestanding 10 foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/8".
     3. Athletic floors, Cafeterias, Large-Group Instruction areas and similar areas: Specified overall values of flatness, F(f) 45; and levelness, F(l) 35; with minimum local values of flatness F(f) 35; and levelness, F(l) 25. Grind high areas and fill low areas as required to produce a surface acceptable to the installer of the specified finish floor system. Provide screeds not exceeding 20 feet on center, vibrating screed to strike-off, highway straightedge to close and straighten, machine float, restraighten with highway straightedge or "cross rod," and machine trowel three times, in accordance with ACI referenced recommendations. For floors to receive fluid-applied athletic floors, assume a minimum of 10% of the length of sawn control joints will require grinding to address curling.
4. For suspended concrete slabs on metal deck, additional special requirements apply:
   - A. For estimating and bidding purposes, assume and additional 1/2" thickness of concrete will be necessary for all suspended (supported) elevated concrete slabs on metal deck to compensate for deflection of floor structure and deck. Suspended slabs on deck shall meet the following: Specified overall value of flatness, F(f) 30; with minimum local value of flatness F(f) 20. The use of a laser screed is highly recommended. Monitor the deflection of the structrue during early pours and adjust concrete placement and finishing procedures accordingly.

CONCRETE NOTES

1. Details of fabrication of reinforcement, handling and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements of the latest revised date.
2. Cold weather concreting shall be in accordance with ACI 306.
3. Hot weather concreting shall be in accordance with ACI 305.
4. Unless otherwise noted in the schedules or details, the minimum 28 day compressive strength of the concrete shall be 4000 p.s.i. for all parts of the structure. All concrete shall be regular weight concrete, unless otherwise noted.
5. A certified Testing Agency shall be retained to perform industry standard testing including measurement of slump, air temperature, concrete cylinder testing, etc. to ensure conformance with the Contract Documents. Submit reports to Architect/Engineer.
6. All concrete exposed to the weather shall be air-entrained. All other concrete may be air-entrained or non-air-entrained at the Contractor's option. For surface finishes and other requirements, refer to the Specifications.
7. Finishing of Slabs: After screeding, bull floating and floating operations have been completed, apply final finish as indicated below, and as described in Specification Section 03300 of the Project Manual.

A. Floor Slabs	Hard Trowel Finish
B. Ramps, Stairs & Sidewalks	Broom Finish
C. Surfaces to Receive Topping Slab	None - Float Finish
D. Surfaces to receive thick set mortar beds or similar cementitious materials	None - Float Finish
E. Driving Surfaces	Rough Swirl Finish

8. Sample Finishes: See Specifications for sample and mockup requirements, if any.
9. Floor Tolerances: See the Specifications for specified Ff and Fl tolerances. Ff and Fl testing shall be performed by the Testing Agency in accordance with ASTM E-1155. Results, including acceptance or rejection of the work will be provided to the Contractor and the Architect/Engineer within 48 hours after data collection. Remedies for out-of-tolerance work shall be in accordance with the Specifications. When approved by the Engineer of Record, measurement of the gaps beneath a 10-foot straight edge may be used in lieu of Ff and Fl testing. Approval must be obtained in writing prior to the beginning of concrete operations.
10. Finishing of Formed Surfaces: Finish formed surfaces as indicated below, and as described in Specification Section 03300 of the Project Manual.

A. Sides of Footings & Pile Caps	Rough Form Finish
B. Sides of Grade Beams	Rough Form Finish
C. Surfaces NOT exposed to public view	Rough Form Finish
D. Surfaces exposed to public view	Smooth Form Finish

11. The Contractor shall consult with the Engineer before starting concrete work to establish a satisfactory placing schedule and to determine the location of construction joints so as to minimize the effects of shrinkage in the floor system.
12. Sawn or tooled control/contraction joints shall be provided in all slabs on grade. For a framed structure, joints shall be located on all column lines. If the column spacing exceeds 20'-0", provide intermediate joints. Exterior slabs, and interior slabs without column shall have joints spaced a maximum of 15'-0" apart. Layout joints so that maximum aspect ratio (ratio of long side to short side) does not exceed 1.5.
13. See Architectural Drawings for exact locations and dimensions of recessed slabs, ramps, stairs, thickened slabs, etc. Slope slabs to drains where shown on the Architectural and Plumbing Drawings.
14. Joints in slabs to receive a finished floor may remain unfilled, unless required by the finish flooring contractor. All exposed slabs shall be filled with sealant specified in Division 7, or as follows: All slabs in industrial, manufacturing, or warehouse applications subject to wheeled traffic shall be filled with specified epoxy resin sealant, all other joints shall be filled with specified elastometric sealant. Defer filling of joints as long as possible, preferably a minimum of 4 to 6 weeks after the slab has been cured. Prior to filling, remove all debris from the slab joints, the fill in accordance with the manufacturer's recommendations.
15. See Architectural Drawings for locations and details of reveals (1" maximum depth) in exposed walls.
16. See Architectural Drawings for chamfer requirements for corners of concrete. Where not indicated, provide 3/4" chamfers on exposed corners of concrete, except those abutting masonry.
17. Sidewalks, drives, exterior retaining walls, and other site concrete are not indicated on the Structural Drawings. Refer to the Site/Civil and Architectural Drawings for locations, dimensions, elevations, jointing, and finish details.

REINFORCED MASONRY NOTES

1. All construction of reinforced masonry walls to be in accordance with the Building Code Requirements For Concrete Masonry Structures (ACI 530) and commentary.
   - A. f'm = 2,000 p.s.i.
   - B. Maximum height of masonry lift: 5'-0"
   - C. Maximum height of grout lift: 5'-0"
   - D. See specifications for additional masonry wall information.
2. CONCRETE BLOCK: Minimum compressive test strength on the net cross-sectional area: 2,800 p.s.i.
3. MORTAR: Type S required
4. GROUT: ASTM C476, 2,500 p.s.i. with a slump of 8" min. and 10" max.
5. REINFORCING: FY = 60,000 p.s.i. with a min. lap of 48 diameters.
6. TESTING/INSPECTION: Provide Level B Quality Assurance as defined in ACI530.1 (see Table 4).

SPECIALTY ENGINEERING

1. A Specialty Engineer is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record, who performs Structural Engineering functions necessary for the structure to be completed and who has shown experience and/or training in the specific speciality.
2. It is the Specialty Engineer's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering.
3. It is the intent of the Drawings and Specifications to provide sufficient information for the Specialty Engineer to perform his design and analysis. If the Specialty Engineer determines there are details, features, or unanticipated project limits which conflict with the engineering requirements as described in the project documents, the Specialty Engineer shall in a timely manner, contact the Engineer of Record for resolution of conflicts.
4. The Specialty Engineer shall forward documents to the Engineer of Record for review. Such documents shall bear the stamp of the Specialty Engineer and include:
   - A. Drawings introducing engineering input, such as defining the configuration or structural capacity of structural components and/or their assembly into structural systems.
   - B. Calculations.
   - C. Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input and output information to permit their proper evaluation. Such information shall bear the stamp of the Specialty Engineer as an indication that said engineer has accepted responsibility for the results.
5. Contractors are referred to the specific technical specification sections and the structural drawings for those elements requiring Specialty Engineering. Examples of components requiring Specialty Engineering include, but are not limited to the following:
   - A. Wood Stairs
   - B. Structural Steel Connections
   - C. Shoring and Bracing Systems.
6. When modifications are proposed to elements under the design and certification of the Specialty Engineer, written authorization by the Specialty Engineer must be obtained and submitted to the Engineer of Record for review, prior to performing the proposed modification.

CONCRETE MIX CLASSES

CLASS A CONCRETE: FOOTINGS, FOUNDATION WALLS, PIERS, & GRADE BEAMS	
COMPRESSIVE STRENGTH	4000 PSI
MAXIMUM WATER/CEMENT RATIO	0.45
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
CLASS B CONCRETE: INTERIOR CONCRETE SLABS	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	517 LB/CU YD
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
CLASS E CONCRETE: EXTERIOR CONCRETE SUBJECT TO FREEZE-THAW	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	564 LB/CU YD
AIR CONTENT	6 +/- 1 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
COARSE AGGREGATE	CRUSHED STONE
INCREASE COMPRESSIVE STRENGTH TO 4500 PSI FOR EXTERIOR REINFORCED CONCRETE SUBJECT TO THE USE OF DE-ICERS.	
CLASS LC CONCRETE: LEAN CONCRETE FILL	
COMPRESSIVE STRENGTH	2000 PSI
MAXIMUM WATER/CEMENT RATIO	0.65
AIR CONTENT	OPTIONAL
WATER-REDUCING ADMIXTURE	NOT REQUIRED
SLUMP	4" TO 7"

1. SLUMP:

MIXES CONTAINING TYPE A WRDA	5" MAXIMUM
MIXES CONTAINING MID-RANGE WRDA	5 - 6 1/2"
MIXES CONTAINING HIGH-RANGE WRDA	5 - 8"

2. SPECIFIED MINIMUM CEMENTITIOUS MATERIAL CONTENTS ARE BASED ON THE USE OF WATER REDUCING ADMIXTURES.
3. INCLUDE AN AIR-ENTRAINING ADMIXTURE FOR ALL CONCRETE EXPOSED TO FREEZING AND THAWING IN SERVICE AND FOR ALL CONCRETE EXPOSED TO COLD WEATHER DURING CONSTRUCTION, BEFORE ATTAINING ITS SPECIFIED DESIGN COMPRESSIVE STRENGTH. REF. ACI 306 FOR DEFINITION OF COLD WEATHER.
4. CLASS C FLY ASH MAY BE USED AS A CEMENT SUBSTITUTE WITH A MAXIMUM 20% SUBSTITUTION RATE ON A POUND-PER-POUND BASIS.
5. SLAG CEMENT MAY BE USED AS A SUBSTITUTE FOR PORTLAND CEMENT WITH A MAXIMUM 50% SUBSTITUTION RATE ON A POUND-PER-POUND BASIS WITH THE EXCEPTION OF CLASS E CONCRETE, WHICH SHALL BE LIMITED TO 30%.
6. WHEN SLAB CEMENT AND FLY ASH ARE USED IN THE SAME CONCRETE MIX, THE MAXIMUM SUBSTITUTION RATES SHALL COMPLY WITH THE FOLLOWING:

PORTLAND CEMENT/SLAG/FLY ASH RATIO:	
CLASS E EXTERIOR CONCRETE	70% / 20% / 10%
ALL OTHER CLASSES	50% / 30% / 20%

7. FOR CONCRETE TO BE CAST DURING COLD WEATHER, THE MAXIMUM SUBSTITUTION RATE FOR SLAG CEMENT SHALL BE 30%. IF SLAG CEMENT AND FLY ASH ARE USED IN THE SAME MIX, THE MAXIMUM SUBSTITUTION RATES SHALL COMPLY WITH A RATIO OF PORTLAND CEMENT/SLAG/FLY ASH OF 70% / 20% / 10%.
8. PROPORTION CONCRETE MIXES TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO THE CORNERS AND ANGLES OF THE FORMS AND AROUND REINFORCEMENT BY THE METHODS OF PLACEMENT AND CONSOLIDATION TO BE EMPLOYED, WITHOUT SEGREGATION AND EXCESSIVE BLEEDING.
9. ADJUSTMENTS TO THE APPROVED MIX DESIGNS MAY BE REQUESTED BY THE CONTRACTOR WHEN JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT. THESE REVISED MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO USE.

CONCRETE REINFORCING

1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305.
2. Reinforcing steel shall conform to ASTM A615, Grade 60, unless noted.
3. Welded wire fabric shall conform to ASTM A185, unless noted.
4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details.
5. Reinforcement in footings, walls and beams shall be continuous. Lap bars a minimum of 36 diameters, unless noted otherwise.
6. Reinforcement shall be supported and secured against displacement in accordance with the Concrete Reinforcing Steel Institute's "Manual of Standard Practice."
7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 - "Details and Detailing of Concrete Reinforcement" and ACI 315R - "Manual of Engineering and Placing Drawings for Reinforced Concrete Structures," unless otherwise indicated.
8. Spread reinforcing steel around small openings and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the normal spacing. Discontinue bars at all large openings where necessary, and provide an area or reinforcement, equal to the interrupted reinforcement, in full length bars, distributing one-half each side of the opening. Where shrinkage and temperature reinforcement is interrupted, add (2) #5 x opening dimensions +4'-0" on each side of the opening. Provide #5 x 4'-0" diagonal bars in both faces, at each corner of openings larger than 12" in any direction.
9. Provide standees for the support of top reinforcement for footings, pile caps, and mats.
10. Provide individual high chairs with support bars, as required for the support of top reinforcement for supported slabs. Do NOT provide standees.
11. Provide snap-on plastic space wheels to maintain required concrete cover for vertical wall reinforcement.
12. Where walls sit on column footings, provide dowels for the wall. Dowels shall be the same size and spacing as the vertical wall reinforcement, unless noted otherwise, with lab splices as shown on the application sections. Install dowels in the footing forms before concrete is placed. Do NOT stick dowels into footings after concrete is placed.
13. Field bending of reinforcing steel is prohibited, unless noted on drawings.
14. Minimum concrete cover over main reinforcing steel shall be as follows: 3" at foundations, 2" at all dirt faces of walls and beams exposed to the weather, 1-1/2" at all pier and column ties, and 3/4" at other wall faces and in structural slabs unless shown or noted otherwise.

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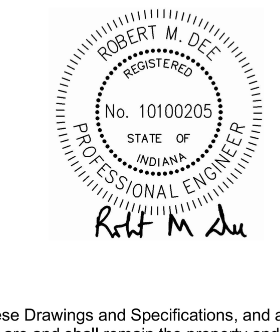
Project No. 2021-036.GAH
Project Date 01.08.2026
Produced RMD JMS



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#	Revision	Date

3705 IN- 16
Brook, IN 47922

George Ade Historic Preservation Commision

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

STRUCTURAL NOTES

S-600.4

S-600.4 _ STRUCTURAL NOTES
2021-036.GAH_George Ade Historic Preservation Commision_CARRIAGE HOUSE INTERIOR AND EXTERIOR_
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1/5/2026 11:19:48 AM

Abbreviations

A/E	ARCHITECT/ENGINEER	MB	MARKER BOARD
ADA	AMERICANS WITH DISABILITIES ACT	MC	MECHANICAL CONTRACTOR
ADD	ADDENDUM	MDO	MEDIUM DENSITY OVERLAY
ADJ	ADJACENT	MECH	MECHANICAL
ADMIN	ADMINISTRATION	MED	MEDIUM
AFF	ABOVE FINISHED FLOOR	MEMB	MEMBRANE
ALUM	ALUMINUM	MEP	MECHANICAL, ELECTRICAL, PLUMBING
APPROX	APPROXIMATE	MEZZ	MEZZANINE
APC	ACOUSTICAL PANEL CEILING	MFD	MANUFACTURED
APT	APARTMENT	MFG	MANUFACTURING
ARCH	ARCHITECT	MFR	MANUFACTURER
ASSN	ASSOCIATION	MGT	MANAGEMENT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIN	MINIMUM
A/V	AUDIO/VISUAL	MISC	MISCELLANEOUS
AVG	AVERAGE	ML	METAL LATH
AWI	ARCHITECTURAL WOODWORKING INSTITUTE	MO	MASONRY OPENING
		MT	MOUNT
BD	BOARD	MTD	MOUNTED
BITUM	BITUMINOUS	MTG	MOUNTING
BLDG	BUILDING	MTL	METAL
BLKHD	BULKHEAD	MULL	MULLION
BOT	BOTTOM		
BSMT	BASEMENT	NA	NOT APPLICABLE
		NIC	NOT IN CONTRACT
CAB	CABINET	NO	NUMBER
CB	CHALK BOARD	NOM	NOMINAL
CD	CONSTRUCTION DOCUMENTS	NTS	NOT TO SCALE
CD	CONTRACT DOCUMENTS		
CIP	CAST-IN-PLACE	O/O	OUT TO OUT
CJ	CONTROL JOINT	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OPG	OPENING
CLO	CLOSET	OPP	OPPOSITE
CLR	CLEAR	ORIG	ORIGINAL
CMU	CONCRETE MASONRY UNIT	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
COL	COLUMN		
CONC	CONCRETE	PART	PARTIAL
CONF	CONFERENCE	PBD	PARTICLEBOARD
CONST	CONSTRUCTION	PERF	PERFORATED
COORD	COORDINATE	PKG	PACKAGE
CORR	CORRIDOR	PLAS LAM	PLASTIC LAMINATE
CPT	CARPET	PLYWD	PLYWOOD
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	PNL	PANEL
CTR	CENTER	PORC	PORCELAIN
CU FT	CUBIC FEET	PR	PAIR
CU IN	CUBIC INCH	PREFAB	PREFABRICATED
CUST	CUSTODIAN	PREFIN	PREFINISH
CW	CURTAINWALL	PREP	PREPARATION
		PROJ	PROJECT
DBL	DOUBLE	PT	PAINT
DEFS	DIRECT-APPLIED FINISH SYSTEM		
DEG	DEGREE	R	RADIUS
DEMO	DEMOLITION	RCP	REFLECTED CEILING PLAN
DEPT	DEPARTMENT	RD	ROOF DRAIN
DET	DETAIL	REBAR	REINFORCING STEEL BARS
DF	DRINKING FOUNTAIN	RECPT	RECEPTACLE
DH	DOUBLE HUNG (DOOR, WINDOW)	REF	REFERENCE
DIA	DIAMETER	REF	REFRIGERATOR
DIAG	DIAGONAL	REINF	REINFORCED
DIM	DIMENSION	REQD	REQUIRED
DISP	DISPENSER	REST	RESTROOM
DIV	DIVISION	RM	ROOM
DN	DOWN	RO	ROUGH OPENING
DS	DOWN SPOUT	RTG	RATING
DWG	DRAWING	RTU	ROOF TOP UNIT
EA	EACH	SCHED	SCHEDULE
EC	ELECTRICAL CONTRACTOR	SCHEM	SCHEMATIC
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SCWD	SOLID CORE WOOD DOOR
EJ	EXPANSION JOINT	SECT	SECTION
EL/ELEV	ELEVATION	SF	SQUARE FOOT (FEET)
ELEC	ELECTRIC	SHR	SHOWER
ELEV	ELEVATOR	SHT	SHEET
EOS	EDGE OF SLAB	SIM	SIMILAR
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	SM	SMALL
EQ	EQUAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SPKLR	SPRINKLER
EST	ESTIMATE	SQ	SQUARE
ETC	ET CETERA	SQ YD	SQUARE YARD
EXIST	EXISTING	SS	STAINLESS STEEL
		ST	STREET
FD	FLOOR DRAIN	STD	STANDARD
FE	FIRE EXTINGUISHER	STL	STEEL
FEC	FIRE EXTINGUISHER CABINET	STOR	STORAGE
FIN	FINISH	STRUCT	STRUCTURAL
FIN FLR	FINISH FLOOR	SURR	SURROUND
FIN GR	FINISH GRADE	SUSP	SUSPEND
FIXT	FIXTURE	SUSP CLG	SUSPENDED CEILING
FLASH	FLASHING	SV	SHEET VINYL
FLR	FLOOR	SVC	SERVICE
FR	FIRE RESISTANT	SYS	SYSTEM
FRC	FIBER REINFORCED CONCRETE		
FRG	FIBER REINFORCED GYPSUM	T&G	TONGUE AND GROOVE
FRP	FIBERGLASS REINFORCED PLASTIC	T/O	TOP OF
FRZ	FREEZER	TB	TACK BOARD
FT	FEET, FOOT	TD	TOWEL DISPENSER
FTG	FOOTING	TECH	TECHNICAL
FURG	FURRING	TEMP	TEMPORARY
FURN	FURNITURE	TFF	TOP OF FINISHED FLOOR
FWC	FABRIC WALL COVERING	TG	TEMPERED GLASS
		THK	THICKNESS
GA	GAUGE	THRU	THROUGH
GAL	GALLON	TI	TAPERED INSULATION
GALV	GALVANIZED	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	TOM	TOP OF MASONRY
GFRC	GLASS-FIBER-REINFORCED CONCRETE	TRANS	TRANSOM
GFRG	GLASS-FIBER-REINFORCED GYPSUM	TYP	TYPICAL
GFRP	GLASS-FIBER-REINFORCED PLASTER		
GL BLK	GLASS BLOCK	UL	UNDERWRITERS LABORATORIES
GLU LAM	GLUE LAMINATED WOOD	UNO	UNLESS NOTED OTHERWISE
GOVT	GOVERNMENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
GWB	GYPSUM WALLBOARD	UTIL	UTILITY
HAZ	HAZARD	VAR	VARIES
HAZ MAT	HAZARDOUS MATERIALS	VB	VINYL BASE
HDBD	HEAVY DUTY HARDBOARD	VCT	VINYL COMPOSITION TILE
HDW	HARDWARE	VEH	VEHICLE
HM	HOLLOW METAL	VERT	VERTICAL
HORIZ	HORIZONTAL	VEST	VESTIBULE
HR	HOUR	VIF	VERIFY IN FIELD
HT	HEIGHT	VOL	VOLUME
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	VR	VAPOR RETARDER
		VWC	VINYL WALL COVERING
IBC	INTERNATIONAL BUILDING CODE	VWF	VINYL WALL FABRIC
ID	INSIDE DIAMETER		
IN	INCH/ INCHES	W/	WITH
INSTR	INSTRUMENT	W/O	WITHOUT
INSUL	INSULATION, E, (ED)	WC	WALL COVERING
INT	INTERIOR	WD	WOOD
		WP	WORKING POINT
JAN	JANITOR	WT	WEIGHT
KD	KNOCK DOWN		
KIT	KITCHEN		
KO	KNOCKOUT		
LAM	LAMINATE		
LG	LAMINATED GLASS		
LAV	LAVATORY		
LED	LIGHT EMITTING DIODE		
LF	LINEAR FEET (FOOT)		
LKR RM	LOCKER ROOM		
LRG	LARGE		
LT	LIGHT		
LT GA	LIGHT GAUGE		
MAINT	MAINTENANCE		
MAN	MANUAL		
MATL	MATERIAL		
MAX	MAXIMUM		

General Roof Plan Notes

A. Roof penetrations and equipment shown shall not be considered all inclusive. Coordinate with Mechanical, Plumbing and Electrical Documents to confirm penetrations and equipment locations. Flash all roof penetrations in accordance with roofing manufacturer's recommendations. Provide crickets to allow for proper drainage around units.

General Demolition Notes

A. Contractor shall field-verify all existing conditions, dimensions, and arrangements.

B. Contractor is responsible for protection of all existing surfaces, materials, and components to remain or be relocated. Damage to these resulting from performance of Work shall be repaired by Contractor to satisfaction of Owner and Architect at no additional expense to Owner.

C. Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.

D. All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items so inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.

E. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to receive new construction shall be patched and repaired as required to cleanly receive new work.

F. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to remain exposed after completion of new construction shall be repaired and patched as required to receive new finishes.

G. Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.

H. Refer to Mech./Elec. Drawings for additional patching and preparation work related to M.E.P. demolition items.

I. Existing sleeves, holes, and other penetrations or new damage of existing building structure above grade exposed by demolition and removal of piping, appurtenances, equipment shall be patched and repaired as part of the Work. Maintain fire ratings of all and adjacent construction affected.

J. Cap all piping to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings to cap existing piping.

K. Coordinate all demolition with Project sequencing as directed by General Contractor or Construction Manager. Specific instances are noted but work is not limited to these instances. Owner has right of first refusal.

L. Strip, recaulk where needed and paint/stain as specified all new and existing (both sides) exterior wood siding, trim, eaves, soffits, brackets, etc. color as selected by Architect. Refer to Specification Section 099000.

M. Remove all exterior holiday light strips and fill holes when needed.

N. Remove all exterior window screens with associated hardware and return to owner and fill holes when needed.

O. Replace all spongy wood with like.

P. At all existing exterior wood, re-nail existing wood where loose. Re-position wood that has shifted from its original position and re-secure. Pull exterior wood tight where gapped from its adjacent piece.

Q. Roof shingle replacement. Existing structure to remain.

R. Remove all hornets/bee nests from the exterior.

S. Strip and evaluate all facia boards to see if the wood is salvagable. Resecure if board is salvageable and replace to match existing if not.

T. Remove leaves from entire perimeter of building from the ground.

U. Repair rubble foundation walls.

V. At existing wood siding: For bidding purposes, assume a quantity for ? lineal feet of existing wood siding boards are to be removed and replaced with new wood siding boards to match the dimension and profile of the existing siding. Also assume a quantity of ? lineal feet of wood siding battens are to be removed and replaced with new wood siding battens. (Contractor to note the shape of batten behind the siding board.) NOTE: THE LOCATION OF THE SIDING BOARDS VS. THE SIDING BATTENS TO BE REMOVED/REPLACED WILL NOT NECESSARILY BE AT THE SAME LOCATION.

W. At existing wood trim at or above the second floor line: For bidding purposes, assume the quantity indicated is to be removed and replaced with new wood to match the profile and dimension for the existing (dimensions listed are approximate and are listed to assist the Contractor. Contractor is to field verify these sizes prior to bid): (a) wood "half timber" trim at exterior plaster (1" x 8"): ? lineal feet, (b) wood "half timber" trim at exterior plaster (1" x 12"): ? lineal feet, (Note: removal of existing "half timber" trim may be in whole or partial preces as identified by the Architect in the field.) (c) wood corner trim at exterior plaster (1" x 6" x 6"): ? units, (d) beaded t & g wood soffit at second floor overhang: ? square feet, (e) wood brackets at second floor overhang: ? units, (f) wood brackets at roof eave: ? units, (g)solid wood eave beams (supported by bracket noted above): ? units

X. The existing roof decking at the eaves shown in the shaded area of the roof plan consists of beaded tongue & groove decking. For bidding purposes, assume a quantity of ? Sq. ft. is to be removed and replaced with new decking to match the profile and dimensions of the existing. Otherwise this eave decking is to remain except where specifically noted. Contractor is to inspect for conditions of damage/deterioration, and report findings to the Architect.

General Plan Notes

A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.

B. All openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.

C. Provide bracing and blocking as required in walls supporting casework, tackboards, markerboards, and restroom accessories.

D. All door frames are located 4" from adjacent wall, unless noted otherwise.

E. Seal all joints between dissimilar materials.

F. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

G. Where new floors meet existing floors, a smooth, straight, and flush transition shall be constructed. Verify in field existing floor elevations and conditions where a new floor shall be constructed adjacent. Trim and patch existing floor as required to achieve desired transition.

H. All exterior windows are to remain, unless noted otherwise. Any broken glazing are to be replaced with similar glazing.

I. All interior walls are Type "W6ID", unless noted otherwise.

J. Refer to C-Series drawings for base elevation height (0'-0") relative to USGS (United States Geological Survey data).

K. Hatching within walls shown in plans and sections indicates new construction.

L. All exact quantities and locations of work are to be reviewed and verified with the architect in the field.

M. When the wood shingle siding is removed, the contractor is to inspect, with the architect, the existing wood sill plate, wood studs, wood sheathing, etc. as visibility permits. The intent of this inspection is to identify any conditions of damage/deterioration, and to accordingly identify required repairs through the Structural/Rough Framing Allowance - refer to Section 01020 of the Project Manual.

General Refl. Ceiling Plan Notes

A. All ceilings are at 8'-0" AFF, unless noted otherwise.

B. All grids are centered in rooms, unless noted otherwise.

C. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.

D. Locate sprinkler heads in center of ceiling panel - where applicable.

Component Symbols

LIGHT FIXTURE IN CEILING GRID

RETURN AIR

SUPPLY AIR

EXIT LIGHT

ROOF/OVERFLOW DRAIN

SINK — DOUBLE, SINGLE, UTILITY

LAVATORY — 2 GANG, 3 GANG, COUNTERTOP, WALL HUNG

TOILET — WALL HUNG, FLOOR MOUNT

URINAL

FLOOR DRAIN

REFLECTED CEILING PLAN LEGEND

APC-3	2' X 2' HUMIDITY RESISTANT ACOUSTICAL PANEL CEILING (09 51 13)		LIGHT FIXTURE (REFERENCE E-SERIES DWGS)
GWB-1	5/8" GWB ON GRID SUSPENSION SYSTEM (09 22 16)		RETURN AIR (REFERENCE M-SERIES DWGS)
GWB-2	5/8" GWB ON JOIST (09 22 16)		SUPPLY AIR (REFERENCE M-SERIES DWGS)
			EXIT LIGHT (REFERENCE E-SERIES DWGS)
			RECESSED LIGHT FIXTURE SUSPENDED FIXTURE IN AREAS WITH EXPOSED CEILINGS (REFERENCE E-SERIES DWGS)
Walls to Deck		S	SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)

EXTERIOR FINISH SCHEDULE

THIS LEGEND IS PROVIDED FOR REFERENCE PURPOSES ONLY. PRODUCTS/COLORS INDICATED ARE BASED ON BASIS OF DESIGN MANUFACTURERS. REFER TO SPECIFICATIONS FOR LIST OF ACCEPTED EQUAL MANUFACTURES/PRODUCTS.

SPEC SECTION	MAT'L	MARK	COLOR: BASIS OF DESIGN
040120.99	RUBBLE		GREY
092400	STUCCO		COLOR AS SELECTED BY ARCHITECT
074624	WOOD SHINGLE AND SHAKE SIDING		PAINT COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WOOD SIDING
079200	SEALANTS		ALL SEALANTS USED IN MASONRY CONTROL JOINTS SHALL MATCH THE MASONRY MORTAR
			ALL SEALANTS USED TO SEAL AROUND EXTERIOR WINDOWS AND DOOR FRAMES SHALL MATCH THE WINDOW AND DOOR FRAME COLOR.
081433	WOOD DOORS AND FRAMES		PAINT COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING DOORS AND FRAMES
080352.99	WOOD WINDOWS		PAINT COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WINDOWS
062013	WOOD TRIM, BRACKETS, FASCIAS		STAIN COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WOOD TRIM
062013	WOOD STAIR STRUCTURE, TREADS, RISERS AND RAILINGS		STAIN COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WOOD TRIM
088000	GLAZING		BROKEN OR CRACKED GLASS TO BE REPLACED WITH SAME THICKNESS AR ORIGINAL

Material Symbols

CONCRETE MASONRY UNIT

FACE BRICK

EARTH

CONCRETE

PLYWOOD

METAL/STEEL

FINISHED WOOD TRIM

WOOD BLOCKING

WOOD SHIM

INSULATION (LOOSE OR BATT.)

INSULATION (RIGID)

GYPSUM BOARD / PLASTER

Reference Symbols

TITLE MARK — 1 View Name, 1/8" = 1'-0"

SECTION MARK — 1 / A101, SIM

ELEVATION MARK — Ref / A101, DETAIL REFERENCE, SHEET REFERENCE

CUT LINE

DETAIL MARK — 1 / A101, SIM

PLAN NOTE DESIGNATION — #

WHEELCHAIR CLEARANCE RADIUS — ADA

WALL DESIGNATION — 1t

DOOR NUMBER — Door Number, Hardware Set, Door Label, Panel Type

WINDOW NUMBER — 11

FURNITURE — FM

COLUMN DESIGNATION — FB

NORTH ARROW — N

ROOM TAG — Room name, 101

UNIT MATCHLINE — UNIT A / UNIT B

DEMOLITION NOTE — #

REVISION TAG

DATUM POINT

KEYNOTE LABEL — Specification Reference, 00 00 00.B9, Unique Identifier (Not A Reference)

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced MEW TM

SARAH KATHLEEN HEMPSTEAD REGISTERED No. AR10400134 STATE OF INDIANA ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

ARCHITECTURAL GENERAL NOTES AND ABBREVIATIONS

A-001.4

A-001.4_ARCHITECTURAL GENERAL NOTES AND ABBREVIATIONS
23-036 GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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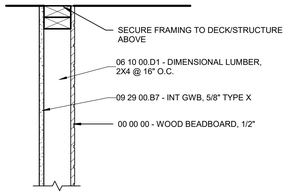
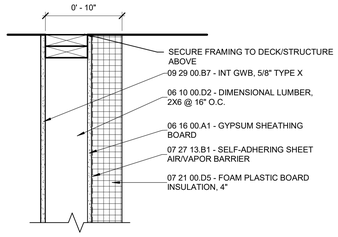
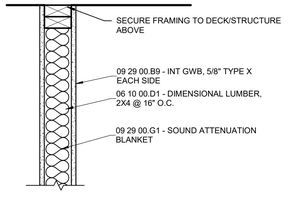


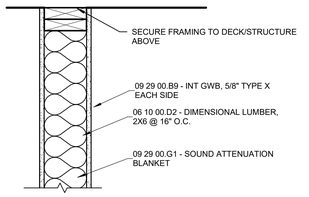
2D W4BD WALL TYPE
1 1/2" = 1'-0"



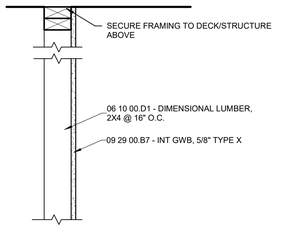
3C EW6E WALL TYPE
1 1/2" = 1'-0"



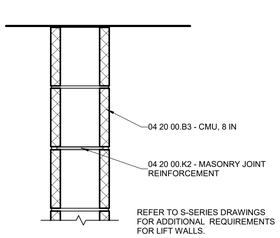
2C W4iD WALL TYPE
1 1/2" = 1'-0"



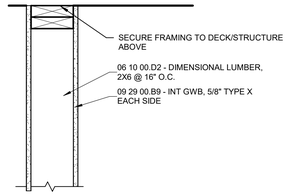
3B W6iD WALL TYPE
1 1/2" = 1'-0"



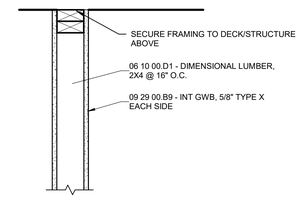
2B W4-D' WALL TYPE
1 1/2" = 1'-0"



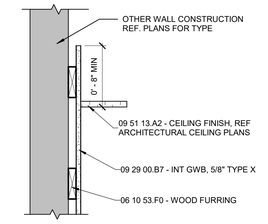
4A M8-D WALL TYPE
1 1/2" = 1'-0"



3A W6-D WALL TYPE
1 1/2" = 1'-0"



2A W4-D WALL TYPE
1 1/2" = 1'-0"



1A F1.5 WALL TYPE
1 1/2" = 1'-0"

SCHMIDT
ASSOCIATES
schmidt-arch.com • 317.263.6226
415 Massachusetts Ave., Indianapolis, IN 46204
731 Brent St. #203, Louisville, KY 40204

Project No. 2021-036.GAH
Project Date 01.08.2026
Produced MEW TM

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

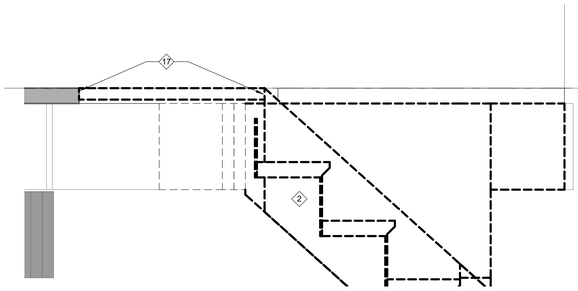
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

WALL TYPES

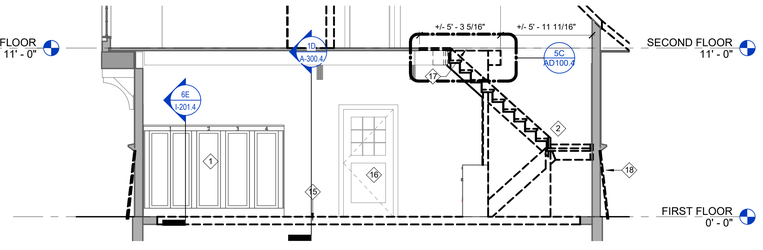
A-002.4

A-002.4_WALL TYPES
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
C:\Users\mwilson\Documents\Revit Files\2021-036.GAH_MEW_R_20251201-mwilson_MEW.rvt
01/08/26 10:47:39 PM

3D **REFERENCE IMAGE**
1 1/2" = 1'-0"



5C **DEMOLITION SECTION DETAIL**
1 1/2" = 1'-0"



3C **DEMOLITION SECTION**
1/4" = 1'-0"

DEMOLITION FLOOR PLAN NOTES

#	NOTE
1	RETAIN HISTORIC LOCKERS. REMOVE, PROTECT, REFINISH, RESTAIN AND REINSTALL IN SAME LOCATION. REFER TO 3D/AD100.4 FOR LOCKER IMAGE.
2	REMOVE EXISTING WOOD STAIR CONSTRUCTION IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO TREADS, STRINGERS, AND MISCELLANEOUS FRAMING IN ITS ENTIRETY. PROTECT ALL EXISTING STRUCTURAL MEMBERS TO REMAIN. PREPARE ADJACENT SURFACES TO REMAIN FOR NEW WORK. REFERENCE A-SERIES AND I-SERIES FLOOR PLANS FOR FINISH CONDITIONS. REFER TO SECTION FOR FURTHER DEFINITION OF DEMOLITION WORK.
3	REMOVE EXISTING EXTERIOR WALL CONSTRUCTION TO 8" BELOW FINISH FLOOR LINE IN ITS ENTIRETY TO LIMITS INDICATED. REMOVE ALL FRAMES, WINDOWS AND MISCELLANEOUS FRAMING IN THEIR ENTIRETY. PROTECT ALL EXISTING STRUCTURAL MEMBERS TO REMAIN. PREPARE ADJACENT SURFACES TO REMAIN FOR NEW WORK. REFERENCE A-SERIES AND I-SERIES FLOOR PLANS FOR FINISH CONDITIONS. REFER TO SECTIONS FOR FURTHER DEFINITION OF DEMOLITION WORK.
4	REMOVE EXISTING INTERIOR WALL CONSTRUCTION IN ITS ENTIRETY TO LIMITS INDICATED INCLUDING, BUT NOT LIMITED TO DOORS, FRAMES, WINDOWS AND ALL MISCELLANEOUS FRAMING. FIELD VERIFY ALL EXISTING WALL CONSTRUCTION PRIOR TO DEMOLITION. REFER TO ARCHITECTURAL AND INTERIOR FLOOR PLANS FOR FINISH CONDITIONS AND DIMENSIONS. NEW CONSTRUCTION TO TOOTH-IN TO EXISTING MASONRY COURSING WHERE APPLICABLE. PATCH AND REPAIR EXISTING ADJACENT SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION.
5	REMOVE EXISTING DOOR SYSTEM IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE DOOR, FRAME, SIDELIGHTS, GLAZING, HARDWARE AND ALL RELATED ANCHORS. PREP EXISTING OPENING FOR NEW CONSTRUCTION. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. RETAIN HISTORIC DOOR.
6	REMOVE AND REFINISH HISTORIC BARN DOOR FOR REPLACEMENT. REMOVE BOTTOM RAIL, PATCH AND REPAIR ADJACENT SURFACES AND PREP FOR NEW CONSTRUCTION/FINISH.
7	REMOVE EXISTING HISTORIC DOOR AND RETAIN. MODIFY DOOR AND FRAME FOR NEW SWING. SEE A-SERIES DWGS.REMOVE EXISTING HISTORIC DOOR AND RETAIN. MODIFY DOOR AND FRAME FOR NEW SWING. SEE A-SERIES DWGS.
8	REMOVE EXISTING WOOD FLOOR IN ITS ENTIRETY TO LIMITS INDICATED. REFERENCE S-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING BUILDING CONDITIONS IN THE FIELD.
9	REMOVE EXISTING INTERIOR WALL CONSTRUCTION IN ITS ENTIRETY TO LIMITS INDICATED INCLUDING, BUT NOT LIMITED TO DOORS, FRAMES, WINDOWS AND ALL MISCELLANEOUS FRAMING. FIELD VERIFY ALL EXISTING WALL CONSTRUCTION PRIOR TO DEMOLITION. REFER TO ARCHITECTURAL AND INTERIOR FLOOR PLANS FOR FINISH CONDITIONS AND DIMENSIONS. PATCH AND REPAIR EXISTING ADJACENT SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCITON.
10	REMOVE EXISTING CASEWORK IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO WALL CABINETS, BASE CABINETS, COUNTERTOPS, FILLER PANELS, SINKS AND ALL RELATED TRIMS. PATCH AND REPAIR ALL EXISTING ADJACENT SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
11	REMOVE EXISTING TOILETS, SINKS, URINALS AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY INCLUDING, BUT NOT LIMITED TO TOILET PAPER DISPENSERS, GRAB BARS, MIRRORS AND SOAP DISPENSERS. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN. PREP FOR NEW CONSTRUCTION/FINISH. SEE P-SERIES DRAWINGS FOR PLUMBING SCOPE.
12	REMOVE EXISTING PANELBOARD, WOOD TRIM, AND INSULATION IN THEIR ENTIRETY. DOCUMENT WOOD TRIM LOCATIONS, SIZES, AND PROFILES FOR USE IN THE RE-CREATION OF REPLACEMENT TRIM ELEMENTS. STUD WALL FRAMING TO REMAIN.
13	REMOVE EXISTING PANELBOARD, WALL FINISH, CEILING FINISH, AND INSULATION IN THEIR ENTIRETY. INTERIOR AND EXTERIOR STUD WALL FRAMING TO REMAIN. PREP FOR NEW CONSTRUCTION/FINISH.
14	REMOVE EXISTING DOOR SYSTEM IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE DOOR, FRAME, SIDELIGHTS, GLAZING, HARDWARE AND ALL RELATED ANCHORS. PREP EXISTING OPENING FOR NEW CONSTRUCTION. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. RETAIN HISTORIC DOOR.
15	SLAB DEMOLITION. LEAVE SLAB CUT 12" FROM EXISTING WALLS.
16	REMOVE EXISTING HISTORIC SLIDING DOOR. DOOR TO BE PROTECTED, CLEANED, REFINISHED AND REINSTALLED. CLEAN AND REINSTALL HISTORIC DOOR HARDWARE.
17	REMOVE EXISTING WOOD FLOOR IN ITS ENTIRETY TO LIMITS INDICATED. REFERENCE S-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING BUILDING CONDITIONS IN THE FIELD.
18	DOCUMENT EXISTING SHAKE EXPOSED FACE DIMENSIONS AND ACCENT DOUBLE SHAKE BAND EVERY THIRD ROW. SUBMIT DOCUMENTATION TO ARCHITECT FOR REVIEW. REMOVE WOOD SHAKE SIDING IN ITS ENTIRETY UP TO SUPPORT STRUCTURE. REPAIR SUPPORT STRUCTURE IF NEEDED. REFER TO 3D/AD210.4 FOR IMAGE.
19	REMOVE EXISTING PANELBOARD, WOOD TRIM, AND INSULATION IN THEIR ENTIRETY. DOCUMENT WOOD TRIM LOCATIONS, SIZES, AND PROFILES FOR USE IN THE RE-CREATION OF REPLACEMENT TRIM ELEMENTS. EXISTING EXTERIOR STUD WALL FRAMING TO REMAIN.
20	REMOVE EXISTING INTERIOR BEADBOARD AND INSULATION IN THEIR ENTIRETY. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. EXISTING EXTERIOR STUD WALL FRAMING TO REMAIN.
21	SLAB DEMOLITION. REMOVE CONCRETE IN ITS ENTIRETY TO EXTENTS SHOWN.
22	REMOVE EXISTING INTERIOR BEADBOARD AND INSULATION IN THEIR ENTIRETY ON THE WEST SIDE OF THE WALL. EXISTING BEADBOARD ON THE EAST SIDE OF THE WALL TO REMAIN. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. EXISTING EXTERIOR STUD WALL FRAMING TO REMAIN.
23	REMOVE EXISTING INTERIOR WOOD PANELS AND INSULATION IN THEIR ENTIRETY ON THE EAST SIDE OF THE WALL. EXISTING BEADBOARD ON THE WEST SIDE OF THE WALL TO REMAIN. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. EXISTING EXTERIOR STUD WALL FRAMING TO REMAIN.
24	EXISTING DOOR FRAME TO REMAIN. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH.
25	REMOVE EXISTING DOOR SYSTEM IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE FRAME. HARDWARE AND ALL RELATED ANCHORS.
26	REMOVE EXISTING INTERIOR BEADBOARD AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL SUPPORT. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. REFER TO S-SERIES DRAWINGS FOR SCOPE.
27	REMOVE EXISTING INTERIOR WOOD PANELS AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL SUPPORT. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. REFER TO S-SERIES DRAWINGS FOR SCOPE.
28	REMOVE EXISTING HISTORIC SWING/SLIDING DOORS,TRACK AND HARDWARE. DOORS TO BE PROTECTED, CLEANED, AND REFINISHED.
29	REMOVE EXISTING INTERIOR BOARDS AND INSULATION IN THEIR ENTIRETY. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH. EXISTING EXTERIOR STUD WALL FRAMING TO REMAIN.

General Demolition Notes

A. Contractor shall field-verify all existing conditions, dimensions, and arrangements.

B. Contractor is responsible for protection of all existing surfaces, materials, and components to remain or be relocated. Damage to these resulting from performance of Work shall be repaired by Contractor to satisfaction of Owner and Architect at no additional expense to Owner.

C. Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.

D. All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items so inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.

E. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to receive new construction shall be patched and repaired as required to cleanly receive new work.

F. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to remain exposed after completion of new construction shall be repaired and patched as required to receive new finishes.

G. Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.

H. Refer to Mech./Elec. Drawings for additional patching and preparation work related to M.E.P. demolition items.

I. Existing sleeves, holes, and other penetrations or new damage of existing building structure above grade exposed by demolition and removal of piping, appurtenances, equipment shall be patched and repaired as part of the Work. Maintain fire ratings of all and adjacent construction affected.

J. Cap all piping to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings to cap existing piping.

K. Coordinate all demolition with Project sequencing as directed by General Contractor or Construction Manager. Specific instances are noted but work is not limited to these instances. Owner has right of first refusal.

L. Strip, recaulk where needed and paint/stain as specified all new and existing (both sides) exterior wood siding, trim, eaves, soffits, brackets, etc. color as selected by Architect. Refer to Specification Section 099000.

M. Remove all exterior holiday light strips and fill holes when needed.

N. Remove all exterior window screens with associated hardware and return to owner and fill holes when needed.

O. Replace all spongy wood with like.

P. At all existing exterior wood, re-nail existing wood where loose. Re-position wood that has shifted from its original position and re-secure. Pull exterior wood tight where gapped from its adjacent piece.

Q. Roof shingle replacement. Existing structure to remain.

R. Remove all hornets/bee nests from the exterior.

S. Strip and evaluate all facia boards to see if the wood is salvagable. Resecure if board is salvageable and replace to match existing if not.

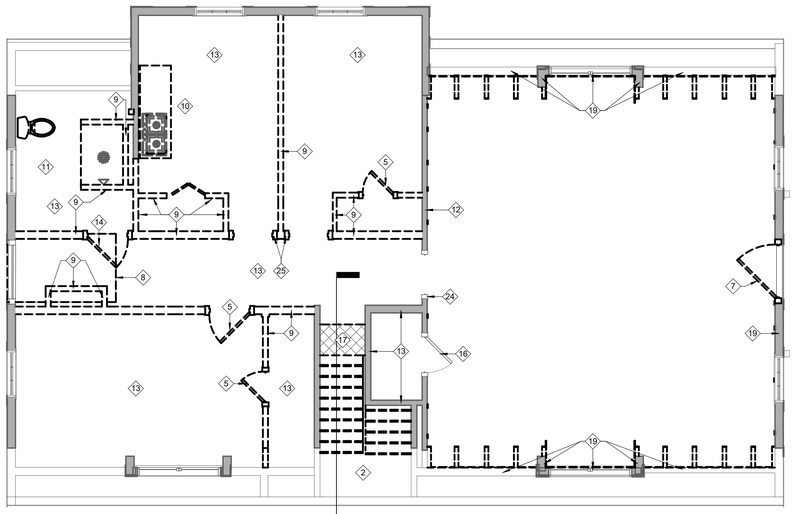
T. Remove leaves from entire perimeter of building from the ground.

U. Repair rubble foundation walls.

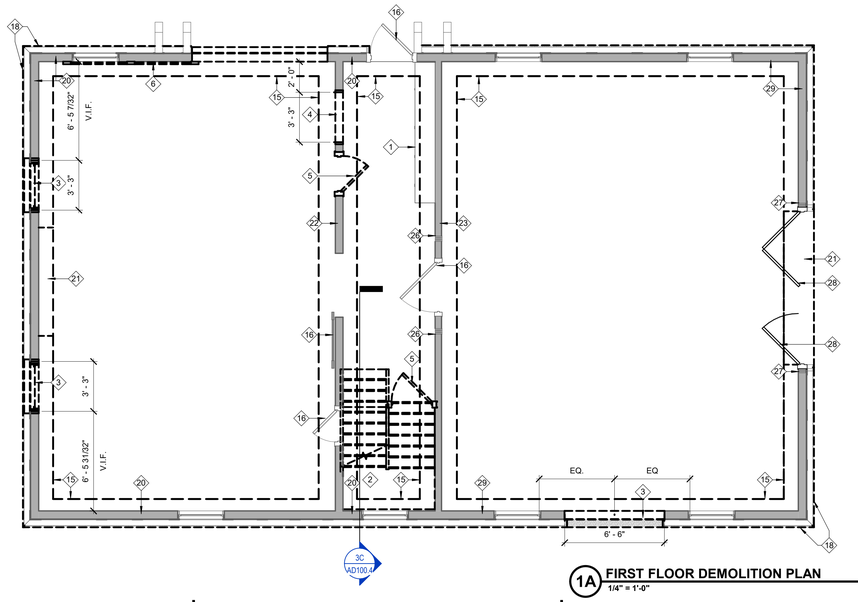
V. At existing wood siding: For bidding purposes, assume a quantity for ? lineal feet of existing wood siding boards are to be removed and replaced with new wood siding boards to match the dimension and profile of the existing siding. Also assume a quantity of ? lineal feet of wood siding battens are to be removed and replaced with new wood siding battens. (Contractor to note the shape of batten behind the siding board.) NOTE: THE LOCATION OF THE SIDING BOARDS VS. THE SIDING BATTENS TO BE REMOVED/REPLACED WILL NOT NECESSARILY BE AT THE SAME LOCATION.

W. At existing wood trim at or above the second floor line: For bidding purposes, assume the quantity indicated is to be removed and replaced with new wood to match the profile and dimension for the existing (dimensions listed are approximate and are listed to assist the Contractor, Contractor is to field verify these sizes prior to bid): (a) wood "half timber" trim at exterior plaster (1" x 8"): ? lineal feet, (b) wood "half timber" trim at exterior plaster (1" x 12"): ? lineal feet, (Note: removal of existing "half timber" trim may be in whole or partial pieces as identified by the Architect in the field.) (c) wood corner trim at exterior plaster (1" x 6" x 6"): ? units, (d) beaded t & g wood soffit at second floor overhang: ? square feet, (e) wood brackets at second floor overhang: ? units, (f) wood brackets at roof eave: ? units, (g)solid wood eave beams (supported by bracket noted above): ? units

X. The existing roof decking at the eaves shown in the shaded area of the roof plan consists of beaded tongue & groove decking. For bidding purposes, assume a quantity of ? Sq. ft. is to be removed and replaced with new decking to match the profile and dimensions of the existing. Otherwise this eave decking is to remain except where specifically noted. Contractor is to inspect for conditions of damage/deterioration, and report findings to the Architect.



4A **SECOND FLOOR DEMOLITION PLAN**
1/4" = 1'-0"



1A **FIRST FLOOR DEMOLITION PLAN**
1/4" = 1'-0"

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Project No. 2021-036.GAH
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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO.
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ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN
ESTATE
RESTORATION -
CARRIAGE
HOUSE
RENOVATION -
BID PACKAGE 4

DEMOLITION FLOOR PLANS

AD100.4

ROOF_A_DEMOLITION FLOOR PLANS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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REMOVE BEADBOARD SOFFIT AND REPLACE WITH LIKE.

REMOVE BEADBOARD SOFFIT AND REPLACE WITH LIKE.

REMOVE WOOD TRIM. NEW TRIM TO MATCH LOCATION, PROFILE AND DIMENSIONS OF EXISTING TRIM.

6D REFERENCE IMAGE
1 1/2" = 1'-0"

4D REFERENCE IMAGE
1 1/2" = 1'-0"

DOCUMENT EXISTING SHAKE EXPOSED FACE DIMENSIONS AND ACCENT DOUBLE SHAKE BAND EVERY THIRD ROW. SUBMIT DOCUMENTATION TO ARCHITECT FOR REVIEW. REMOVE WOOD SHAKE SIDING IN ITS ENTIRETY UP TO SUPPORT STRUCTURE. REPAIR SUPPORT STRUCTURE IF NEEDED.

3D REFERENCE IMAGE
1 1/2" = 1'-0"

DEMOLITION BUILDING ELEVATION NOTES

#	NOTE
1	DOCUMENT EXISTING SHAKE EXPOSED FACE DIMENSIONS AND ACCENT DOUBLE SHAKE BAND EVERY THIRD ROW. SUBMIT DOCUMENTATION TO ARCHITECT FOR REVIEW. REMOVE WOOD SHAKE SIDING IN ITS ENTIRETY UP TO SUPPORT STRUCTURE. REPAIR SUPPORT STRUCTURE IF NEEDED. REFER TO 3D/AD210.4 FOR IMAGE.
2	REMOVE ROOF IN ITS ENTIRETY AND REPLACE.
3	REMOVE ANY LOOSE MASONRY AND MORTAR. PATCH AND REPAIR ALL EXISTING ADJACENT SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
4	REMOVE EXISTING EXTERIOR WALL CONSTRUCTION TO 8" BELOW FINISH FLOOR LINE IN ITS ENTIRETY TO LIMITS INDICATED. REMOVE ALL DOORS, FRAMES, WINDOWS AND MISCELLANEOUS FRAMING IN ITS ENTIRETY. PROTECT ALL EXISTING STRUCTURAL MEMBERS TO REMAIN. PREPARE ADJACENT SURFACES TO REMAIN FOR NEW WORK. REFERENCE A-SERIES AND I-SERIES FLOOR PLANS FOR FINISH CONDITIONS.
5	REMOVE WIRES AND ALL ASSOCIATED HARDWARE.
6	REMOVE WOOD TRIM. NEW TRIM TO MATCH LOCATION, PROFILE AND DIMENSIONS OF EXISTING TRIM. REMOVE BEADBOARD SOFFIT AND REPLACE WITH LIKE. REFER TO 4D/AD210.4 FOR IMAGE.
7	REMOVE PIPE AND ALL EQUIPMENT AND ATTACHMENTS ASSOCIATED. PATCH WALL CONSTRUCTION, PLASTER, AND WOOD TRIM TO MATCH SURROUNDINGS.
8	REMOVE ALL EXISTING VISQUEEN AND ASSOCIATED WOOD FRAMING, STAPLES, ETC. FROM THE WINDOWS AND SURROUNDING TRIM.
9	REMOVE BEADBOARD SOFFIT AND REPLACE WITH LIKE. REFER TO 6D/AD210.4 FOR IMAGE.

4B EAST ELEVATION
1 1/2" = 1'-0"

2B WEST ELEVATION
1 1/2" = 1'-0"

4A SOUTH ELEVATION
1 1/2" = 1'-0"

2A NORTH ELEVATION
1 1/2" = 1'-0"

General Demolition Notes

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C. Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.

D. All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items so inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.

E. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to receive new construction shall be patched and repaired as required to cleanly receive new work.

F. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to remain exposed after completion of new construction shall be repaired and patched as required to receive new finishes.

G. Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.

H. Refer to Mech./Elec. Drawings for additional patching and preparation work related to M.E.P. demolition items.

I. Existing sleeves, holes, and other penetrations or new damage of existing building structure above grade exposed by demolition and removal of piping, appurtenances, equipment shall be patched and repaired as part of the Work. Maintain fire ratings of all and adjacent construction affected.

J. Cap all piping to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings to cap existing piping.

K. Coordinate all demolition with Project sequencing as directed by General Contractor or Construction Manager. Specific instances are noted but work is not limited to these instances. Owner has right of first refusal.

L. Strip, recaulk where needed and paint/stain as specified all new and existing (both sides) exterior wood siding, trim, eaves, soffits, brackets, etc. color as selected by Architect. Refer to Specification Section 099000.

M. Remove all exterior holiday light strips and fill holes when needed.

N. Remove all exterior window screens with associated hardware and return to owner and fill holes when needed.

O. Replace all spongy wood with like.

P. At all existing exterior wood, re-nail existing wood where loose. Re-position wood that has shifted from its original position and re-secure. Pull exterior wood tight where gapped from its adjacent piece.

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R. Remove all hornets/bee nests from the exterior.

S. Strip and evaluate all facia boards to see if the wood is salvagable. Resecure if board is salvageable and replace to match existing if not.

T. Remove leaves from entire perimeter of building from the ground.

U. Repair rubble foundation walls.

V. At existing wood siding: For bidding purposes, assume a quantity for ? lineal feet of existing wood siding boards are to be removed and replaced with new wood siding boards to match the dimension and profile of the existing siding. Also assume a quantity of ? lineal feet of wood siding battens are to be removed and replaced with new wood siding battens. (Contractor to note the shape of batten behind the siding board.) NOTE: THE LOCATION OF THE SIDING BOARDS VS. THE SIDING BATTENS TO BE REMOVED/REPLACED WILL NOT NECESSARILY BE AT THE SAME LOCATION.

W. At existing wood trim at or above the second floor line: For bidding purposes, assume the quantity indicated is to be removed and replaced with new wood to match the profile and dimension for the existing (dimensions listed are approximate and are listed to assist the Contractor, Contractor is to field verify these sizes prior to bid): (a) wood "half timber" trim at exterior plaster (1" x 8"): ? lineal feet, (b) wood "half timber" trim at exterior plaster (1" x 12"): ? lineal feet, (Note: removal of existing "half timber" trim may be in whole or partial pieces as identified by the Architect in the field.) (c) wood corner trim at exterior plaster (1" x 6" x 6"): ? units, (d) beaded t & g wood soffit at second floor overhang: ? square feet, (e) wood brackets at second floor overhang: ? units, (f) wood brackets at roof eave: ? units, (g)solid wood eave beams (supported by bracket noted above): ? units

X. The existing roof decking at the eaves shown in the shaded area of the roof plan consists of beaded tongue & groove decking. For bidding purposes, assume a quantity of ? Sq. ft. is to be removed and replaced with new decking to match the profile and dimensions of the existing. Otherwise this eave decking is to remain except where specifically noted. Contractor is to inspect for conditions of damage/deterioration, and report findings to the Architect.

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced MEW TM

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF KENTUCKY LICENSED ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

DEMOLITION ELEVATIONS

AD210.4

ADD'L 4_ DEMOLITION ELEVATIONS
2021.036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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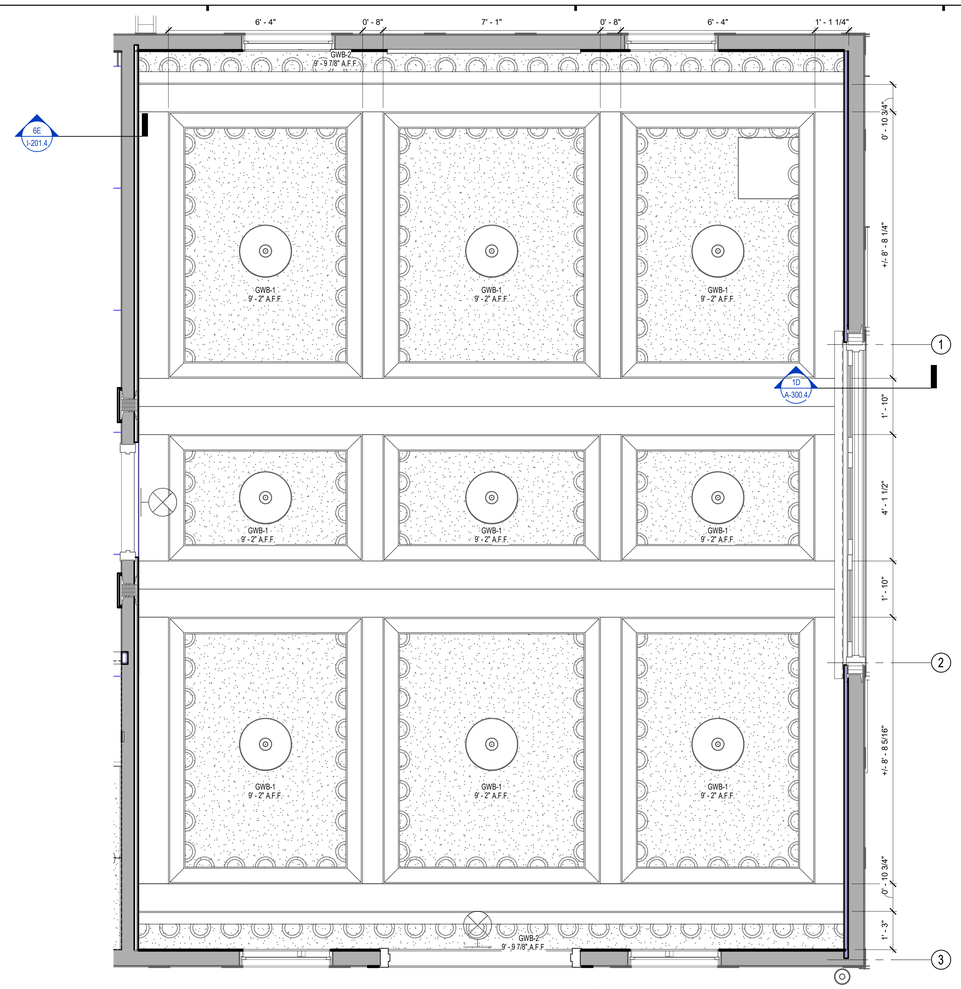
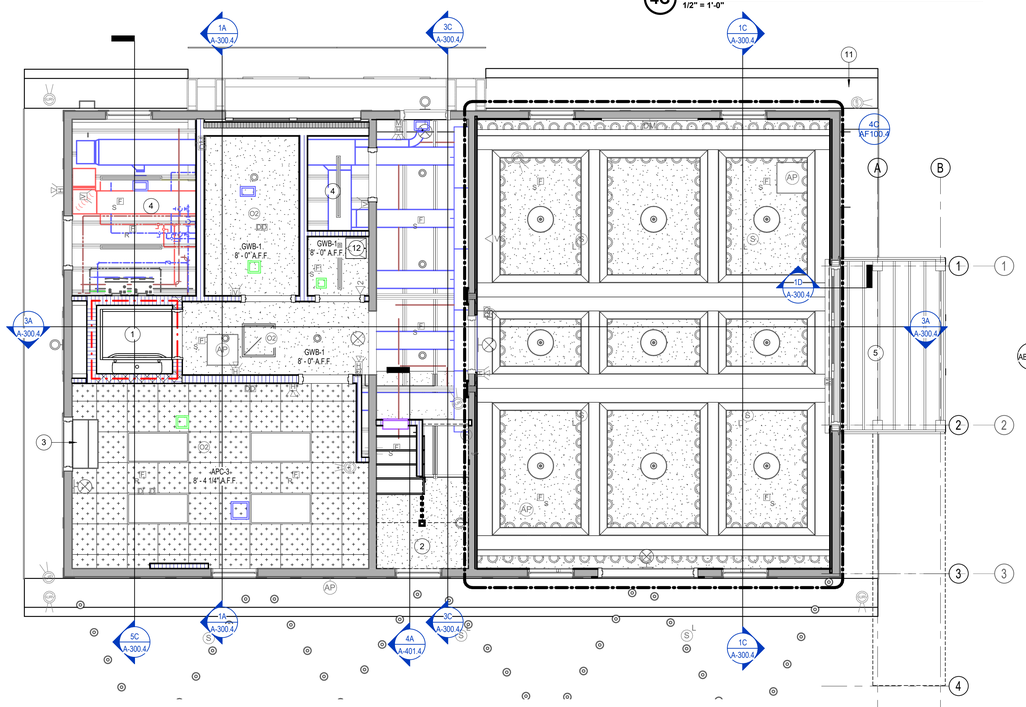


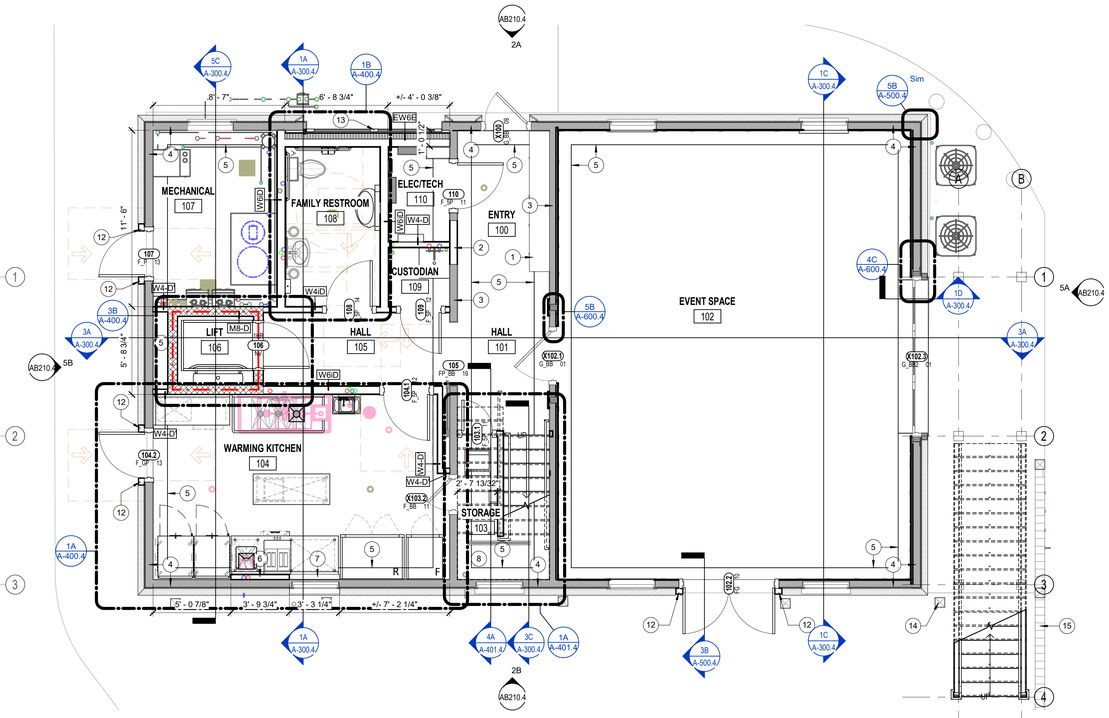
4C EVENT SPACE ENLARGED CEILING PLAN

1/2" = 1'-0"



4A FIRST FLOOR REFLECTED CEILING PLAN

1/4" = 1'-0"



1A FIRST FLOOR PLAN

1/4" = 1'-0"

General Refl. Ceiling Plan Notes

A. All ceilings are at 8'-0" AFF, unless noted otherwise.

B. All grids are centered in rooms, unless noted otherwise.

C. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.

D. Locate sprinkler heads in center of ceiling panel - where applicable.

REFLECTED CEILING PLAN LEGEND

APC-3	2' X 2' HUMIDITY RESISTANT ACOUSTICAL PANEL CEILING (09 51 13)		LIGHT FIXTURE (REFERENCE E-SERIES DWGS)
GWB-1	5/8" GWB ON GRID SUSPENSION SYSTEM (09 22 16)		RETURN AIR (REFERENCE M-SERIES DWGS)
GWB-2	5/8" GWB ON JOIST (09 22 16)		SUPPLY AIR (REFERENCE M-SERIES DWGS)
			EXIT LIGHT (REFERENCE E-SERIES DWGS)
			RECESSED LIGHT FIXTURE SUSPENDED FIXTURE IN AREAS WITH EXPOSED CEILINGS (REFERENCE E-SERIES DWGS)
Walls to Deck		S	SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)

REFLECTED CEILING PLAN NOTES

#	NOTE
1	CAPPED LIFT SHAFT.
1	CAPPED LIFT SHAFT. THREE 5/8" GYPSUM BOARD LAYERS ATTACHED TO UNDERSIDE OF CAPPED SHAFT.
2	COVER STAIR STRUCTURAL MEMBER IN GYPSUM BOARD.
3	AIR CURTAIN. REFER TO M-SERIES DRAWINGS.
4	NO CEILING. EXPOSED STRUCTURE AND DECK.
5	EXPOSED STRUCTURE OF DECK LANDING.
6	SLOPED CEILING. SECURE GWB TO UNDERSIDE OF RAFTERS.
7	LINES INDICATE FRAMING ABOVE TO CURB LOOSE INSULATION.
8	24" X 24" CEILING ACCESS PANEL.
9	EXPOSED SPRINKLER LINE. REFER TO P-SERIES DRAWINGS.
10	NEW WOOD TRIM TO MATCH LOCATIONS, SIZES AND PROFILES OF EXISTING WOOD TRIM.
11	NEW BEADBOARD SOFFIT TO MATCH LOCATION, PROFILE AND DIMENSIONS OF REMOVED SOFFIT. PAINT TO MATCH EXISTING.
12	16" X 16" CEILING ACCESS PANEL.

General Plan Notes

A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.

B. All openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.

C. Provide bracing and blocking as required in walls supporting casework, tackboards, markerboards, and restroom accessories.

D. All door frames are located 4" from adjacent wall, unless noted otherwise.

E. Seal all joints between dissimilar materials.

F. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

G. Where new floors meet existing floors, a smooth, straight, and flush transition shall be constructed. Verify in field existing floor elevations and conditions where a new floor shall be constructed adjacent. Trim and patch existing floor as required to achieve desired transition.

H. All exterior windows are to remain, unless noted otherwise. Any broken glazing are to be replaced with similar glazing.

I. All interior walls are Type "W6ID", unless noted otherwise.

J. Refer to C-Series drawings for base elevation height (0'-0") relative to USGS (United States Geological Survey data).

K. Hatching within walls shown in plans and sections indicates new construction.

L. All exact quantities and locations of work are to be reviewed and verified with the architect in the field.

M. When the wood shingle siding is removed, the contractor is to inspect, with the architect, the existing wood sill plate, wood studs, wood sheathing, etc. as visibility permits. The intent of this inspection is to identify any conditions of damage/deterioration, and to accordingly identify required repairs through the Structural/Rough Framing Allowance - refer to Section 01020 of the Project Manual.

FLOOR PLAN NOTES

#	Note
1	REFINISH EXISTING LOCKERS IN PLACE.
2	INFILL WALL WITH LIKE CONSTRUCTION. VERIFY CONSTRUCTION IN FIELD.
3	EXISTING BEADBOARD TO REMAIN IN PLACE. NEW INSULATION AND GYPSUM BOARD TO BE INFILLED BEHIND BEADBOARD. REFER TO DETAIL 5C/A-600.4 FOR CONDITION.
4	INFILL INTERIOR SIDE OF EXISTING EXTERIOR WALL CONSTRUCTION WITH NEW INSULATION AND GYPSUM BOARD.
5	LINES INDICATING NEW FLOOR INFILL. MATCH EXISTING DEPTH AND TIE INTO EXISTING SLAB. REFER TO S-SERIES DRAWINGS.
6	WALL TO EXTEND UP ABOVE CEILING.
7	WALL TO END BELOW WINDOW FRAME.
8	COVER STAIR STRUCTURAL MEMBER IN GYPSUM BOARD.
9	EXISTING STUD CONSTRUCTION WITH NEW INSULATION AND GYPSUM BOARD ON BOTH SIDES.
10	NEW WOOD TRIM TO MATCH LOCATIONS, SIZES AND PROFILES OF EXISTING WOOD TRIM.
11	ALIGN NEW WALL WITH EDGE OF EXISTING WINDOW FRAME TRIM.
12	WOODEN POST TO MATCH PROFILE, DIMENSIONS, AND LOOK AT EXISTING TRIPLE DOOR.
13	BOTTOM RAIL OF EXISTING WOOD BARN DOOR TO BE REPLACED WITH MATERIAL OF THE SAME SPECIES, PROFILE, AND DIMENSIONS OF EXISTING RAIL.
14	WOOD COLUMN SUPPORT FOR GAZEBO. REFER TO C-SERIES DRAWINGS. TYPICAL.
15	SCREEN WALL. REFER TO C-SERIES DRAWINGS.

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3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

FIRST FLOOR PLAN

AF100.4

AF100.4 - FIRST FLOOR PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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General Refl. Ceiling Plan Notes

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B. All grids are centered in rooms, unless noted otherwise.

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D. Locate sprinkler heads in center of ceiling panel - where applicable.

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Walls to Deck			SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)

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E. Seal all joints between dissimilar materials.

F. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

G. Where new floors meet existing floors, a smooth, straight, and flush transition shall be constructed. Verify in field existing floor elevations and conditions where a new floor shall be constructed adjacent. Trim and patch existing floor as required to achieve desired transition.

H. All exterior windows are to remain, unless noted otherwise. Any broken glazing are to be replaced with similar glazing.

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J. Refer to C-Series drawings for base elevation height (0'-0") relative to USGS (United States Geological Survey data).

K. Hatching within walls shown in plans and sections indicates new construction.

L. All exact quantities and locations of work are to be reviewed and verified with the architect in the field.

M. When the wood shingle siding is removed, the contractor is to inspect, with the architect, the existing wood sill plate, wood studs, wood sheathing, etc. as visibility permits. The intent of this inspection is to provide new conditions of deterioration, and to accordingly identify Framing Allowance - refer to Section 01020 of the Project Manual.

FLOOR PLAN NOTES

#	Note
1	REFINISH EXISTING LOCKERS IN PLACE.
2	INFILL WALL WITH LIKE CONSTRUCTION. VERIFY CONSTRUCTION IN FIELD.
3	EXISTING BEADBOARD TO REMAIN IN PLACE. NEW INSULATION AND GYPSUM BOARD TO BE INFILLED BEHIND BEADBOARD. REFER TO DETAIL SCIA-600.4 FOR CONDITION.
4	INFILL INTERIOR SIDE OF EXISTING EXTERIOR WALL CONSTRUCTION WITH NEW INSULATION AND GYPSUM BOARD.
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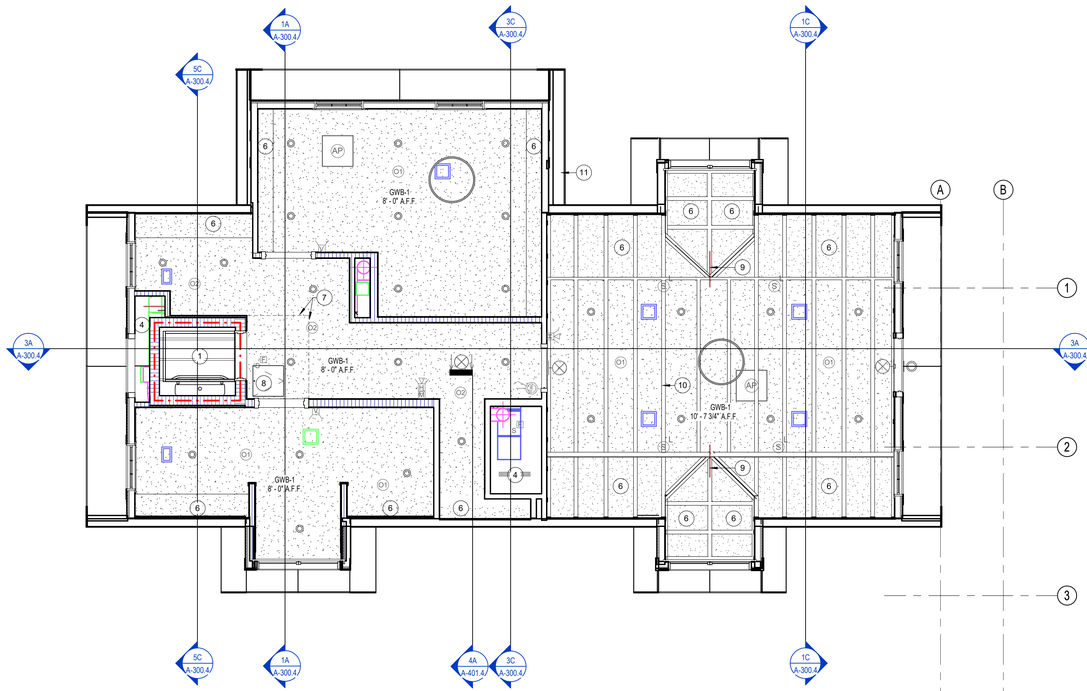
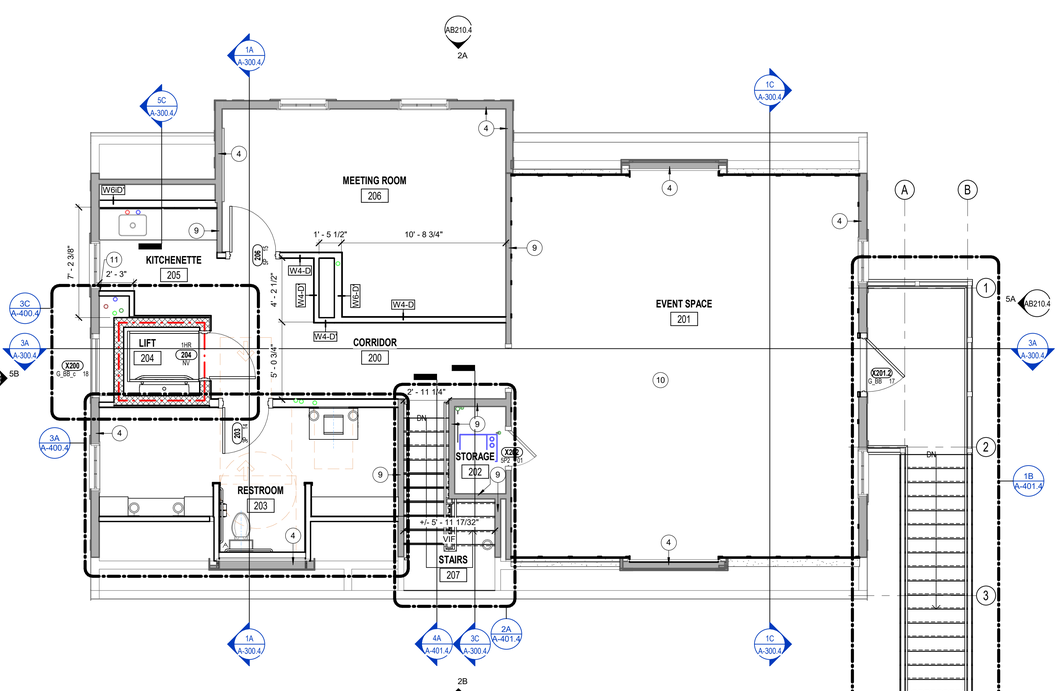


4A **SECOND FLOOR REFLECTED CEILING PLAN**
1/4" = 1'-0"



1A **SECOND FLOOR PLAN**
1/4" = 1'-0"

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REGISTERED
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STATE OF INDIANA
ARCHITECT

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BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SECOND FLOOR PLAN

AF101.4

AF101.4_SECOND FLOOR PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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General Demolition Notes

A. Contractor shall field-verify all existing conditions, dimensions, and arrangements.

B. Contractor is responsible for protection of all existing surfaces, materials, and components to remain or be relocated. Damage to these resulting from performance of Work shall be repaired by Contractor to satisfaction of Owner and Architect at no additional expense to Owner.

C. Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.

D. All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items so inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.

E. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to receive new construction shall be patched and repaired as required to cleanly receive new work.

F. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to remain exposed after completion of new construction shall be repaired and patched as required to receive new finishes.

G. Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.

H. Refer to Mech./Elec. Drawings for additional patching and preparation work related to M.E.P. demolition items.

I. Existing sleeves, holes, and other penetrations or new damage of existing building structure above grade exposed by demolition and removal of piping, appurtenances, equipment shall be patched and repaired as part of the Work. Maintain fire ratings of all and adjacent construction affected.

J. Cap all piping to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings to cap existing piping.

K. Coordinate all demolition with Project sequencing as directed by General Contractor or Construction Manager. Specific instances are noted but work is not limited to these instances. Owner has right of first refusal.

L. Strip, recaulk where needed and paint/stain as specified all new and existing (both sides) exterior wood siding, trim, eaves, soffits, brackets, etc. color as selected by Architect. Refer to Specification Section 099000.

M. Remove all exterior holiday light strips and fill holes when needed.

N. Remove all exterior window screens with associated hardware and return to owner and fill holes when needed.

O. Replace all spongy wood with like.

P. At all existing exterior wood, re-nail existing wood where loose. Re-position wood that has shifted from its original position and re-secure. Pull exterior wood tight where gapped from its adjacent piece.

Q. Roof shingle replacement. Existing structure to remain.

R. Remove all hornets/bee nests from the exterior.

S. Strip and evaluate all facia boards to see if the wood is salvagable. Resecure if board is salvageable and replace to match existing if not.

T. Remove leaves from entire perimeter of building from the ground.

U. Repair rubble foundation walls.

V. At existing wood siding: For bidding purposes, assume a quantity for ? lineal feet of existing wood siding boards are to be removed and replaced with new wood siding boards to match the dimension and profile of the existing siding. Also assume a quantity of ? lineal feet of wood siding battens are to be removed and replaced with new wood siding battens. (Contractor to note the shape of batten behind the siding board.) NOTE: THE LOCATION OF THE SIDING BOARDS VS. THE SIDING BATTENS TO BE REMOVED/REPLACED WILL NOT NECESSARILY BE AT THE SAME LOCATION.

W. At existing wood trim at or above the second floor line: For bidding purposes, assume the quantity indicated is to be removed and replaced with new wood to match the profile and dimension for the existing (dimensions listed are approximate and are listed to assist the Contractor, Contractor is to field verify these sizes prior to bid): (a) wood "half timber" trim at exterior plaster (1" x 8"): ? lineal feet, (b) wood "half timber" trim at exterior plaster (1" x 12"): ? lineal feet, (Note: removal of existing "half timber" trim may be in whole or partial pieces as identified by the Architect in the field.) (c) wood corner trim at exterior plaster (1" x 6" x 6"): ? units, (d) beaded I & g wood soffit at second floor overhang: ? square feet, (e) wood brackets at second floor overhang: ? units, (f) wood brackets at roof eave: ? units, (g)solid wood eave beams (supported by bracket noted above): ? units

X. The existing roof decking at the eaves shown in the shaded area of the roof plan consists of beaded tongue & groove decking. For bidding purposes, assume a quantity of ? Sq. ft. is to be removed and replaced with new decking to match the profile and dimensions of the existing. Otherwise this eave decking is to remain except where specifically noted. Contractor is to inspect for conditions of damage/deterioration, and report findings to the Architect.

DEMOLITION ROOF PLAN NOTES

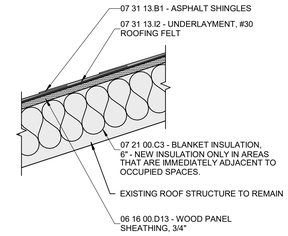
#	NOTE
1	AT THE WALL AREA INDICATED BY THE HEAVY DASHED LINE, REMOVE THE EXISTING WOOD SIDING AND/OR EXTERIOR PLASTER AND WOOD TRIM. REMOVE ALL EXISTING FLASHINGS.
2	EXISTING WEATHERVANE TO BE REMOVED AND CLEANED.

ROOF PLAN NOTES

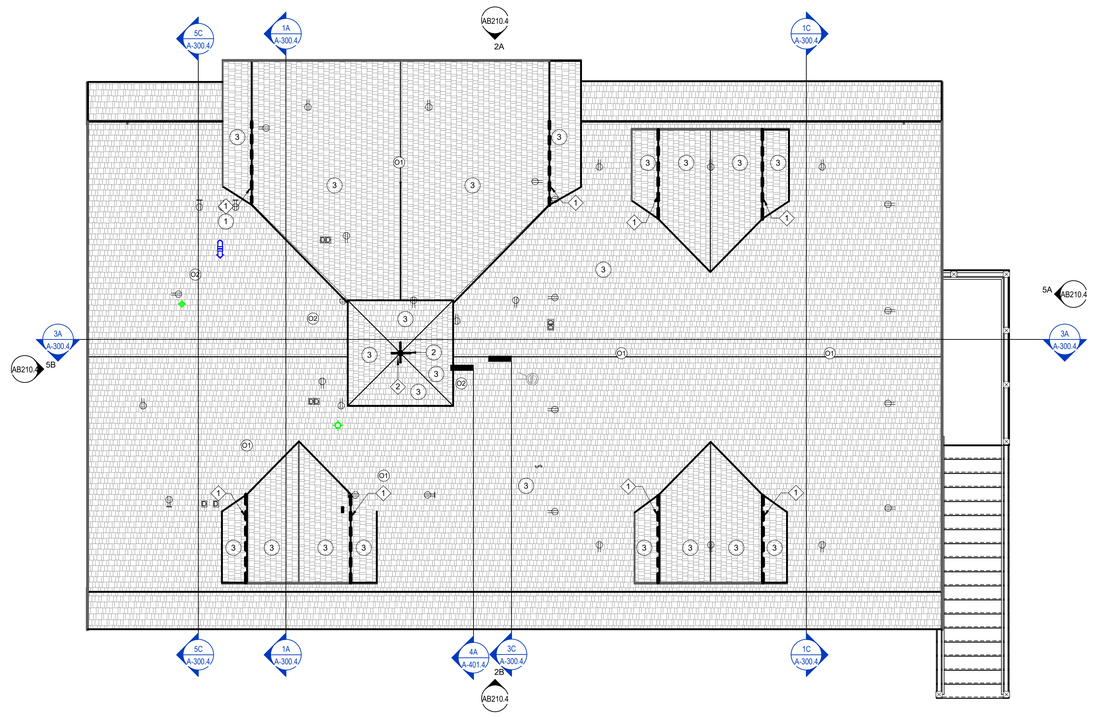
#	Note
1	PROVIDE AND INSTALL NEW METAL FLASHINGS. INSTALL NEW/EXISTING WOOD SIDING, AND/OR EXTERIOR PLASTER AND NEW/EXISTING WOOD TRIM. NEW TROM TO MATCH LOCATION, SIZE, AND PROFILE OF EXISTING WOOD TRIM. RECONSTRUCTED WALL AREA TO MATCH THE EXISTING AT THE COMPLETETION OF THIS WORK. REFER TO DETAIL 4A/AR100.4 FOR SPECIFIC CONDITIONS.
2	WEATHERVANE TO BE PLACED IN PREVIOUS LOCATION.
3	ROOF SLOPE TO MATCH EXISTING ROOF SLOPE.

General Roof Plan Notes

A. Roof penetrations and equipment shown shall not be considered all inclusive. Coordinate with Mechanical, Plumbing and Electrical Documents to confirm penetrations and equipment locations. Flash all roof penetrations in accordance with roofing manufacturer's recommendations. Provide crickets to allow for proper drainage around units.



1D ROOF TYPE - SH-?
1 1/2" = 1'-0"



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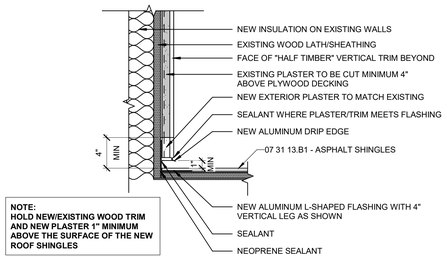

NOTE:
HOLD NEW/EXISTING WOOD TRIM AND NEW PLASTER 1" MINIMUM ABOVE THE SURFACE OF THE NEW ROOF SHINGLES

THIS DETAIL IS BASED UPON EXTERNAL VISUAL INSPECTION AND ASSUMPTIONS ABOUT THE EXISTING CONSTRUCTION AT THE WALL.
EXACT EXISTING CONDITIONS ARE TO BE FIELD VERIFIED, AND THIS DETAIL REVIEWED WITH THE ARCHITECT FOR ANY APPROPRIATE MODIFICATIONS.

4A NEW ROOF FLASHING AT VERTICAL WALL
1 1/2" = 1'-0"

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HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

ROOF PLAN

AR100.4

AR100.4_ROOF PLAN
2021036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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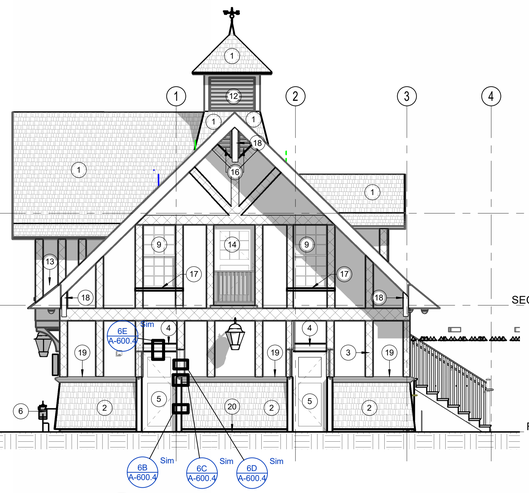
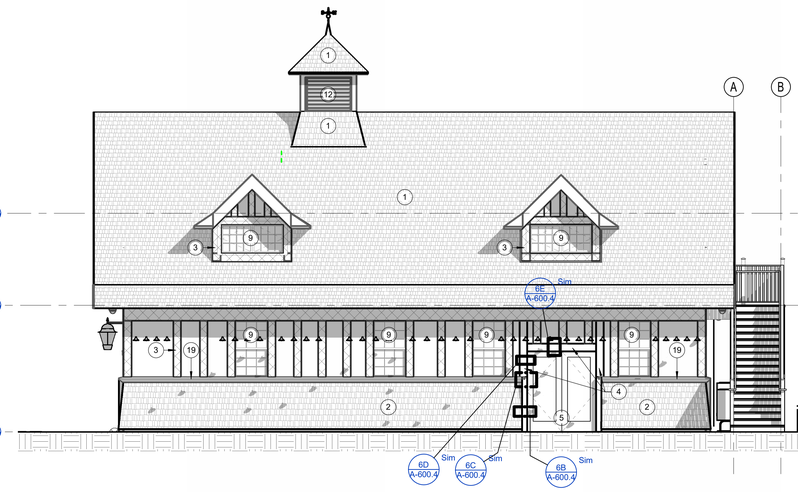
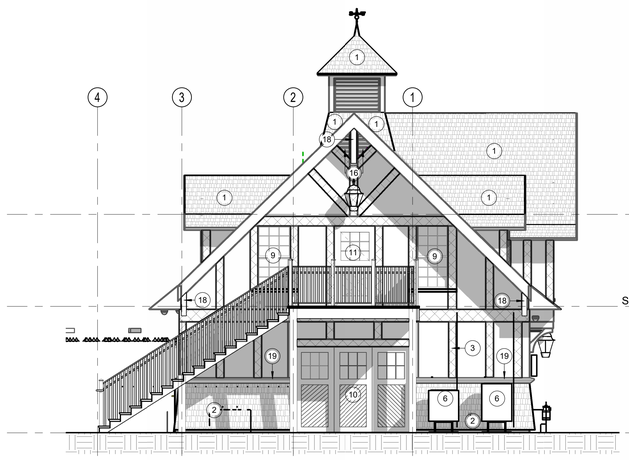


5B **WEST ELEVATION**
3/16" = 1'-0"



2B **SOUTH ELEVATION**
3/16" = 1'-0"



5A **EAST ELEVATION**
3/16" = 1'-0"

2A **NORTH ELEVATION**
3/16" = 1'-0"

EXTERIOR FINISH SCHEDULE

THIS LEGEND IS PROVIDED FOR REFERENCE PURPOSES ONLY. PRODUCTS/COLORS INDICATED ARE BASED ON BASIS OF DESIGN MANUFACTURERS. REFER TO SPECIFICATIONS FOR LIST OF ACCEPTED EQUAL MANUFACTURES/PRODUCTS.

SPEC SECTION	MAT'L	MARK	COLOR: BASIS OF DESIGN
040120.99	RUBBLE		GREY
092400	STUCCO		COLOR AS SELECTED BY ARCHITECT
074624	WOOD SHINGLE AND SHAKE SIDING		PAINT COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WOOD SIDING
079200	SEALANTS		ALL SEALANTS USED IN MASONRY CONTROL JOINTS SHALL MATCH THE MASONRY MORTAR
			ALL SEALANTS USED TO SEAL AROUND EXTERIOR WINDOWS AND DOOR FRAMES SHALL MATCH THE WINDOW AND DOOR FRAME COLOR.
081433	WOOD DOORS AND FRAMES		PAINT COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING DOORS AND FRAMES
080352.99	WOOD WINDOWS		PAINT COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WINDOWS
062013	WOOD TRIM, BRACKETS, FASCIAS		STAIN COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WOOD TRIM
062013	WOOD STAIR STRUCTURE, TREADS, RISERS AND RAILINGS		STAIN COLOR AS SELECTED BY ARCHITECT TO MATCH EXISTING WOOD TRIM
088000	GLAZING		BROKEN OR CRACKED GLASS TO BE REPLACED WITH SAME THICKNESS AR ORIGINAL

BUILDING ELEVATION NOTES

#	Note
1	NEW ROOF. REFER TO ROOF PLAN AR100.4 FOR SCOPE.
2	NEW CEDAR SHAKE SHINGLE.
3	DIAGONAL HATCH PATTERN INDICATES AREAS OF EXISTING WOOD TRIM TO REMAIN AND/OR BE MODIFIED BY NEW EXTERIOR DOORS.
4	NEW WOOD TRIM TO DEFINE NEW EXTERIOR DOOR. MATCH PROFILE, DIMENSIONS AND STYLE OF EXISTING WOOD TRIM.
5	081433 - WOOD DOOR, REF. DOOR SCHEDULE.
6	M/P/E EQUIPMENT, REFER TO M/E/P-SERIES DRAWINGS.
7	REFINISH EXTERIOR DOOR. REGLAZE WINDOWS AS NEEDED. REFER TO 1A/AB211.4 FOR IMAGE.
8	REFINISH EXTERIOR BARN DOOR. DOOR TO BE SECURED IN CLOSED POSITION. REFER TO 2A/AB211.4 FOR IMAGE.
9	REFINISH EXISTING WINDOW AS NEEDED INCLUDING BUT NOT LIMITED TO THE SILL, STILES, RAILS, AND JAMBS. REGLAZE WINDOW AS NEEDED. REFER TO 3A/AB211.4 FOR TYPICAL IMAGE.
10	REFINISH EXTERIOR DOOR. REGLAZE WINDOWS AS NEEDED. MODIFY DOOR AND FRAME FOR NEW SWING. SEE A-SERIES DWGS. REFER TO 4A/AB211.4 FOR IMAGE.
11	REFINISH EXTERIOR DOOR. REGLAZE WINDOWS AS NEEDED. DOORS TO BE SECURED IN CLOSED POSITION. REFER TO 5A/AB211.4 FOR IMAGE.
12	REFINISH LOUVER. REFER TO 1C/AB211.4 FOR IMAGE.
13	REFINISH/PATCH EIFS AND WOOD TRIM. REFER TO 2C/AB211.4 FOR TYPICAL IMAGE.
14	REFINISH EXTERIOR DOOR. DOOR TO BE SECURED IN CLOSED POSITION. REPAIR, STRIP, AND REFINISH RAILING. REPAIR RAILING, STRIP AND REPAINT POSTS. STRIP AND REFINISH DOOR SILL. REFER TO 3C/AB211.4 FOR IMAGE.
15	REFINISH FASCIA. TYPICAL. REPLACE AS NEEDED.
16	NEW LOUVER TO FIT INTO SPACE BETWEEN WOOD TRIM AND ROOF. VERIFY DIMENSIONS AND ANGLES OF EXISTING LOCATION IN FIELD.
17	STRIP AND REFINISH WINDOW SILL. TYPICAL.
18	REPAIR BRACKETS AS NEEDED, MATCH LOCATION, PROFILE, DIMENSIONS OF THE EXISTING. VIF.
19	REPAIR WOOD TRIM AS NEEDED AROUND PERIMETER. MATCH PROFILE AND DIMENSIONS OF EXISTING. VIF.
20	FILL IN HOLE IN FOUNDATION WALL WITH STONE RUBBLE MATERIAL OR APPROVED EQUIVALENT.
21	NEW EXTERIOR TRIM TO MATCH PROFILE, DIMENSIONS, AND STYLE OF EXISTING WOOD TRIM.

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced MEW TM

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO.
AR10400134
STATE OF
INDIANA
ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN
ESTATE
RESTORATION -
CARRIAGE
HOUSE
RENOVATION -
BID PACKAGE 4

BUILDING ELEVATIONS

AB210.4

AB210.4_BUILDING ELEVATIONS
2021036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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01/08/2026 10:42:08 AM

REFINISH EXTERIOR DOOR. DOOR TO BE SECURED IN CLOSED POSITION. REPAIR, STRIP, AND REFINISH RAILING. REPAIR RAILING, STRIP AND REPAINT POSTS. STRIP AND REFINISH DOOR SILL.

3C REFERENCE IMAGE
1 1/2" = 1'-0"

REFINISH/PATCH CEMENT PLASTER AND WOOD TRIM. REFER TO DETAIL 4A/AR100.4 FOR NEW FLASHING AT VERTICAL WALL..

2C REFERENCE IMAGE
1 1/2" = 1'-0"

REPAIR OR REPLACE DETERIORATED COMPONENTS. REFINISH LOUVER INCLUDING BUT NOT LIMITED TO THE SILL, LOUVER BLADES, AND FRAME.

1C REFERENCE IMAGE
1 1/2" = 1'-0"

REFINISH EXTERIOR DOOR. REGLAZE WINDOWS AS NEEDED. DOOR TO BE SECURED IN CLOSED POSITION.

5A REFERENCE IMAGE
1 1/2" = 1'-0"

REFINISH EXTERIOR DOOR. REGLAZE WINDOWS AS NEEDED. MODIFY DOOR AND FRAME FOR NEW SWING.

4A REFERENCE IMAGE
1 1/2" = 1'-0"

REFINISH WINDOW AS NEEDED INCLUDING BUT NOT LIMITED TO THE SILL, STILES, RAILS, AND JAMBS. REGLAZE WINDOW AS NEEDED. TYPICAL.

3A REFERENCE IMAGE
1 1/2" = 1'-0"

REPAIR OR REPLACE DETERIORATED COMPONENTS INCLUDING BOTTOM RAIL. REFINISH EXTERIOR BARN DOOR. DOOR TO BE SECURED IN CLOSED POSITION.

2A REFERENCE IMAGE
1 1/2" = 1'-0"

REFINISH EXTERIOR DOOR.

1A REFERENCE IMAGE
1 1/2" = 1'-0"

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3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

ELEVATION DETAILS

AB211.4

ARCH_A_ELEVATION DETAILS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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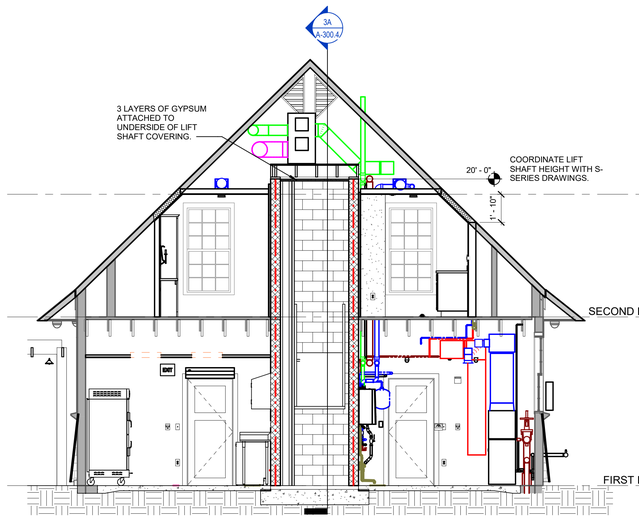
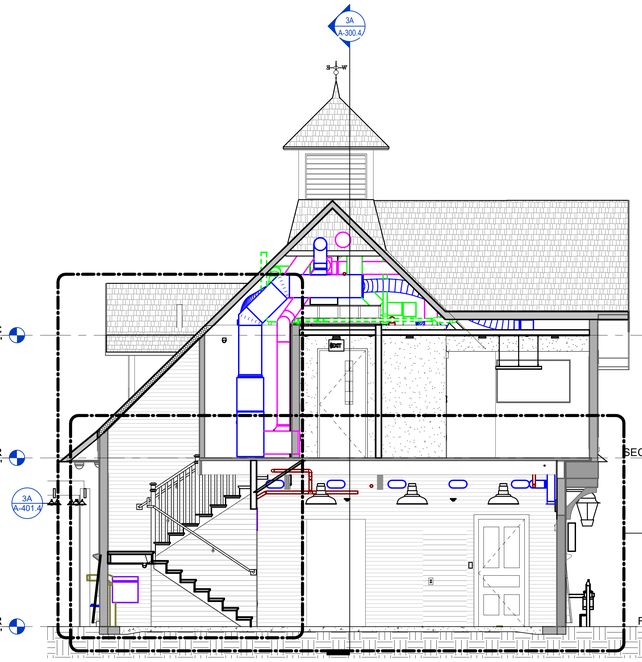
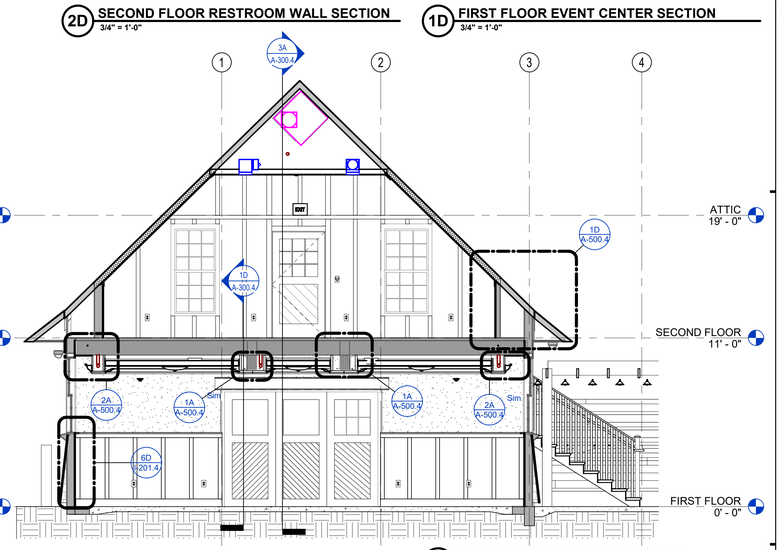


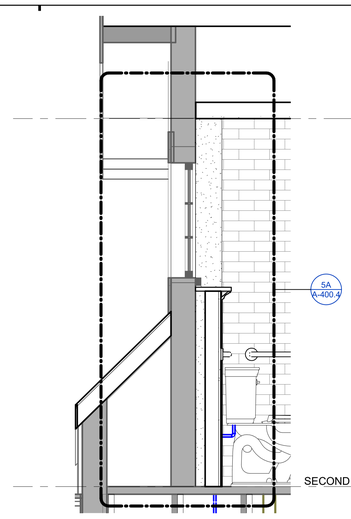
5C **SOUTH NORTH BUILDING SECTION**
1/4" = 1'-0"



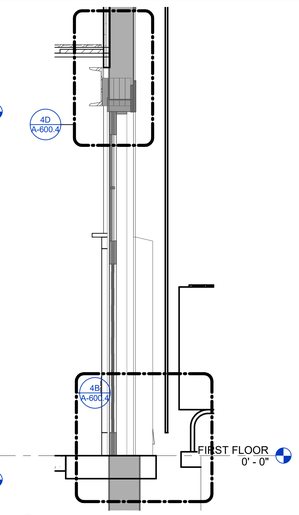
3C **SOUTH NORTH BUILDING SECTION**
1/4" = 1'-0"



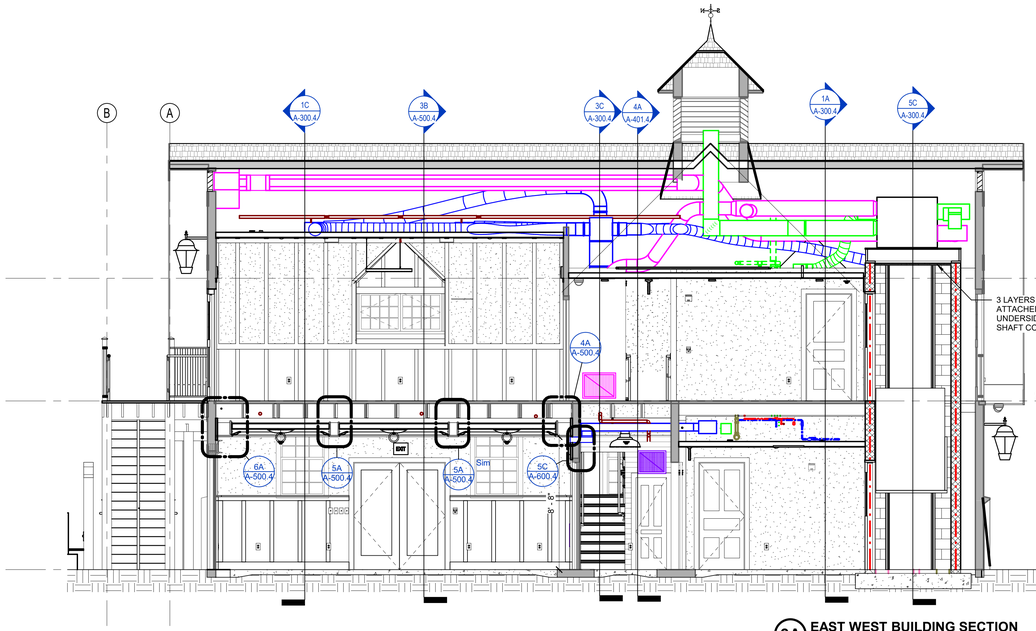
1C **NORTH SOUTH BUILDING SECTION**
1/4" = 1'-0"



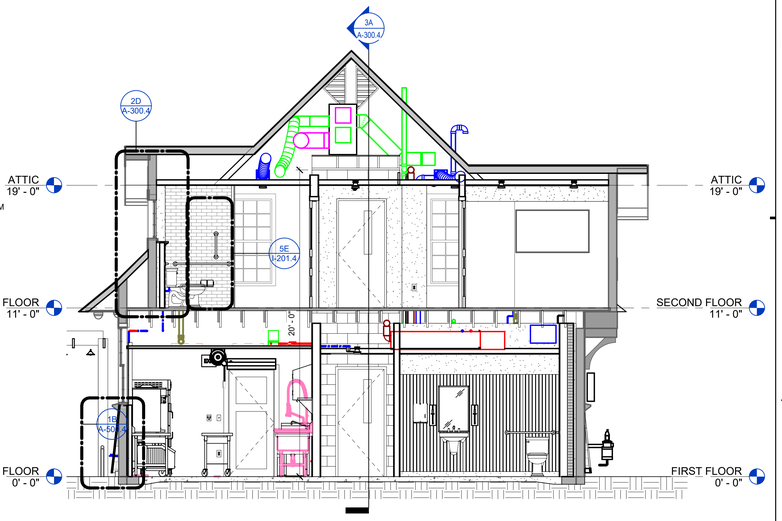
2D **SECOND FLOOR RESTROOM WALL SECTION**
3/4" = 1'-0"



1D **FIRST FLOOR EVENT CENTER SECTION**
3/4" = 1'-0"



3A **EAST WEST BUILDING SECTION**
1/4" = 1'-0"



1A **SOUTH NORTH BUILDING SECTION**
1/4" = 1'-0"

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3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

BUILDING AND WALL SECTIONS

A-300.4

A-300.4_BUILDING AND WALL SECTIONS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BIDTPACKAGE 4_
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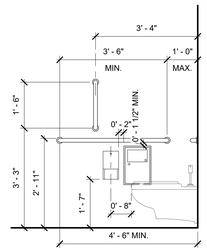
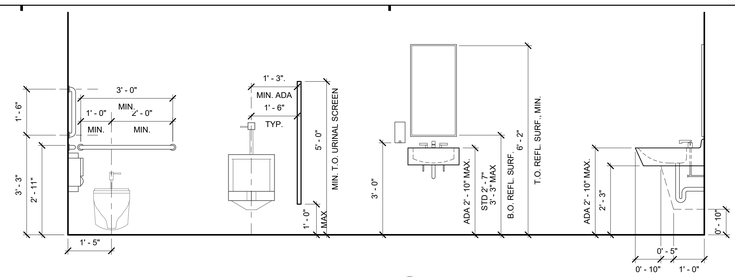
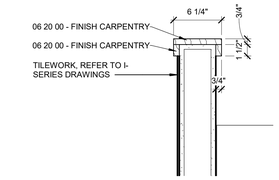




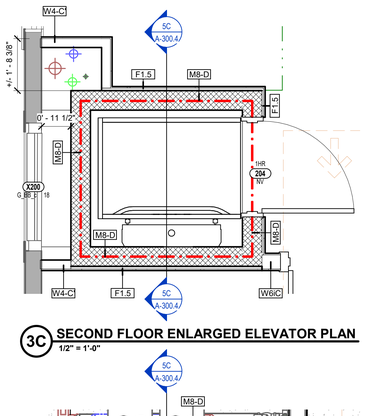
1E STANDARD RESTROOM ELEVATIONS
1/2" = 1'-0"

5.4.401 - RESTROOM ACCESSORY SCHEDULE

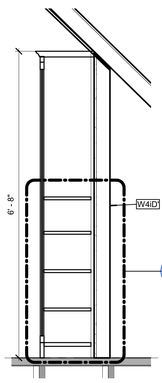
Type Mark	Keynote	Description	Mounting	Furnished By	Installed By
A1	10 28 00	GRAB BAR - 18" VERTICAL	BOTTOM @ 40" AFF	CONTRACTOR	CONTRACTOR
A2	10 28 00	GRAB BAR - 36" HORIZONTAL	TOP @ 2'-11" AFF	CONTRACTOR	CONTRACTOR
A3	10 28 00	GRAB BAR - 42" HORIZONTAL	TOP @ 2'-11" AFF	CONTRACTOR	CONTRACTOR
A4	10 28 00	MIRROR - 24" X 36"	BOTTOM @ 4" ABOVE FIXTURE	CONTRACTOR	CONTRACTOR
A5	10 28 00	TOILET TISSUE DISPENSER - DOUBLE	BOTTOM @ 1'-6 AFF	CONTRACTOR	CONTRACTOR
A6	10 28 00	PAPER TOWEL DISPENSER - SLIM	DISPENSER OPENING @ 42" AFF	CONTRACTOR	CONTRACTOR
A7	10 28 00	CHANGING TABLE - SURFACE MOUNTED	UNDERSIDE OF BED @ 2' - 3" MIN AFF	CONTRACTOR	CONTRACTOR



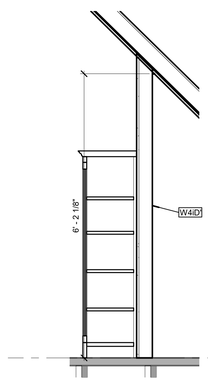
4D WALL CAP DETAIL
1 1/2" = 1'-0"



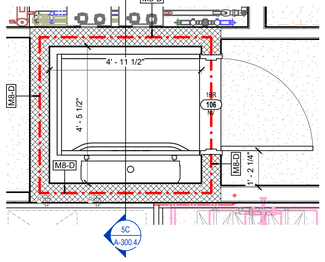
3C SECOND FLOOR ENLARGED ELEVATOR PLAN
1/2" = 1'-0"



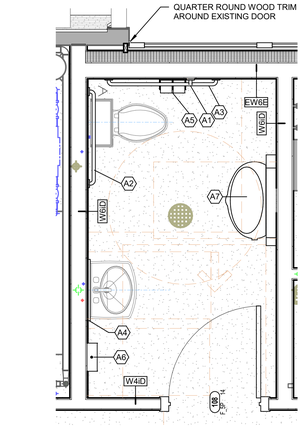
5B WALL SECTION
3/4" = 1'-0"



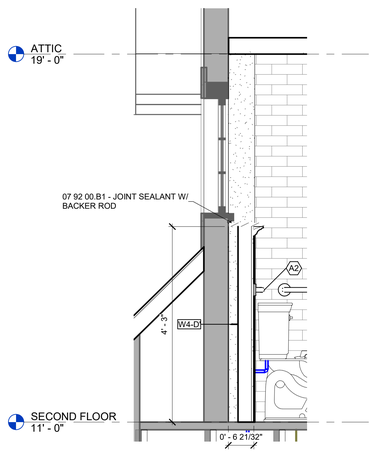
4B WALL SECTION
3/4" = 1'-0"



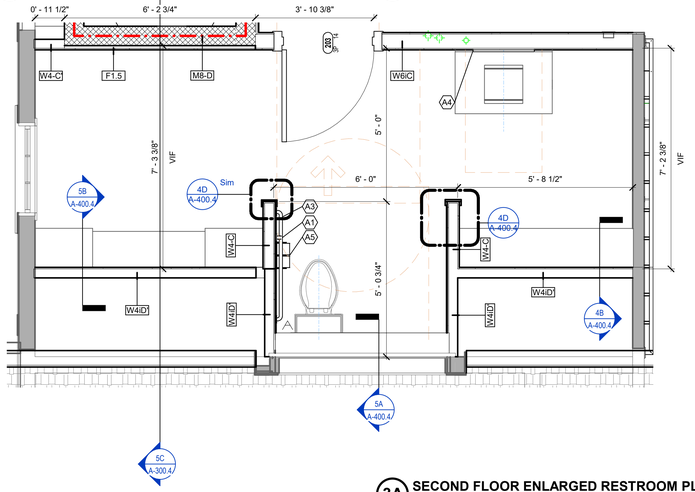
3B FIRST FLOOR ENLARGED ELEVATOR PLAN
1/2" = 1'-0"



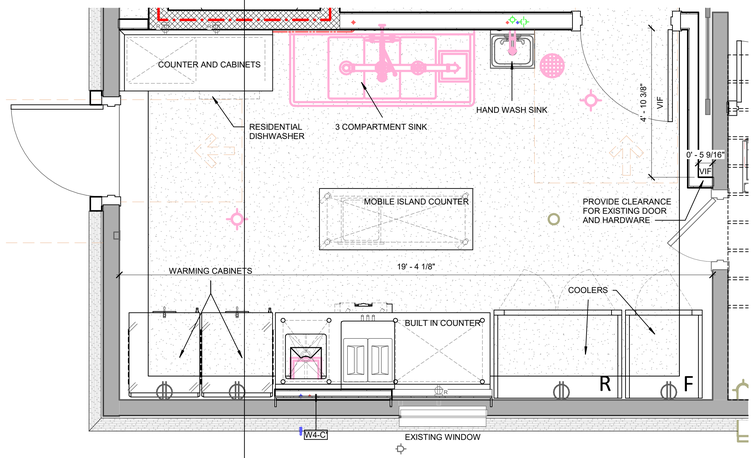
1B FIRST FLOOR ENLARGED RESTROOM PLAN
1/2" = 1'-0"



5A WALL SECTION
3/4" = 1'-0"



3A SECOND FLOOR ENLARGED RESTROOM PLAN
1/2" = 1'-0"



1A WARMING KITCHEN ENLARGED PLAN
1/2" = 1'-0"

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3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

ENLARGED PLANS

A-400.4

A-400.4_ENLARGED PLANS
20210361GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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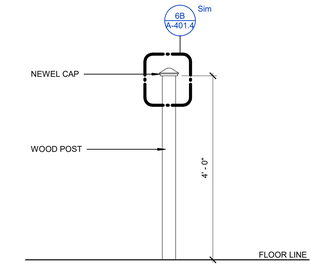
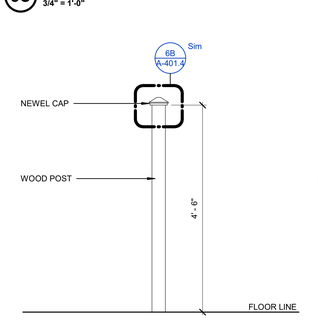
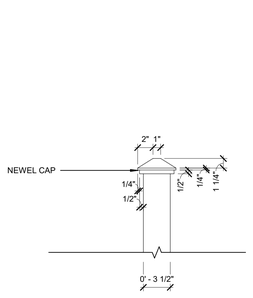


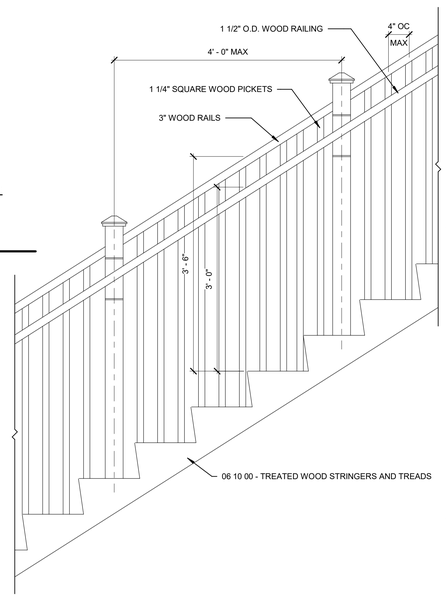
5C BALCONY WOOD RAILING POST
3/4" = 1'-0"



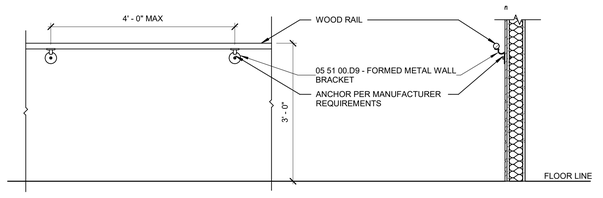
5B PATIO WOOD RAILING POST
3/4" = 1'-0"



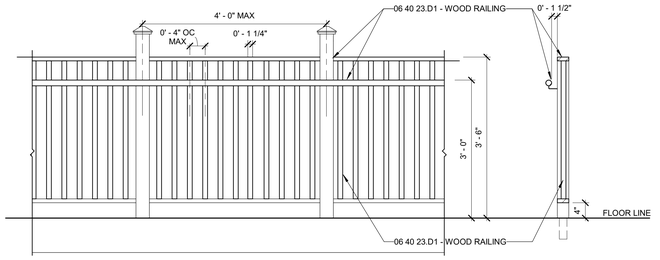
6B ENLARGED NEWEL CAP
1 1/2" = 1'-0"



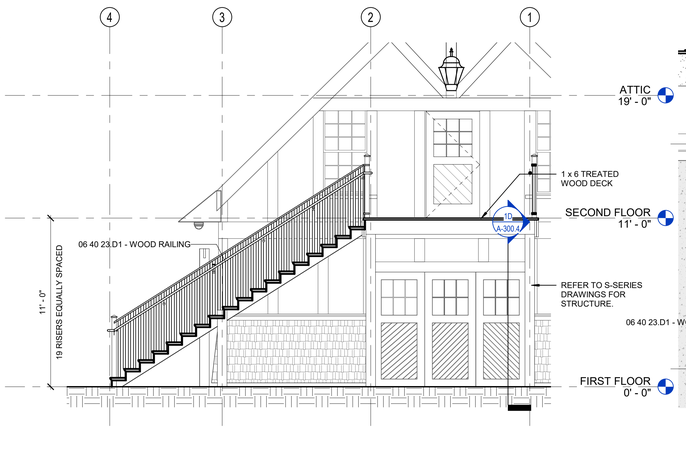
4B WOOD RAILING
1" = 1'-0"



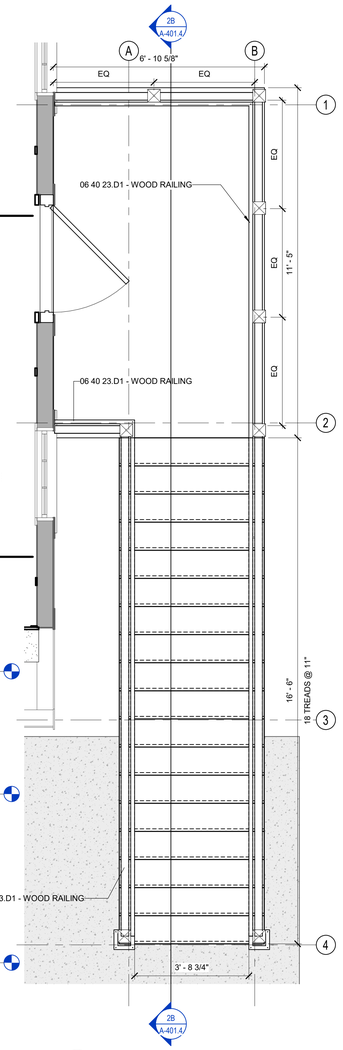
2E WOOD RAILING
3/4" = 1'-0"



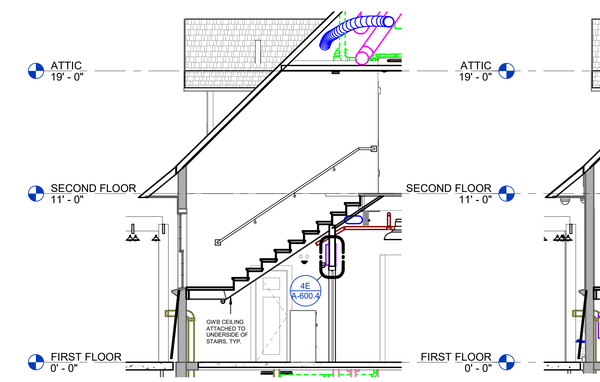
2D WOOD RAILING
3/4" = 1'-0"



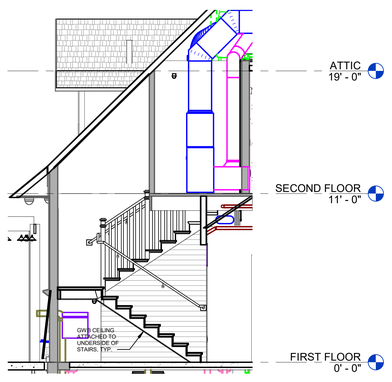
2B STAIR SECTION
1/4" = 1'-0"



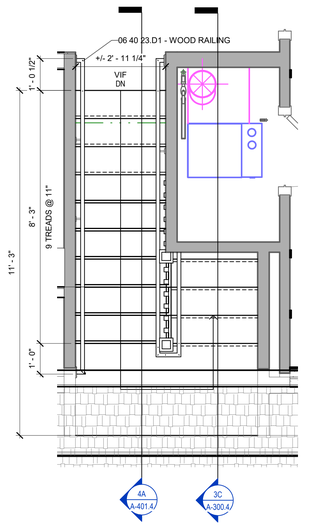
1B EXTERIOR STAIR PLAN
1/2" = 1'-0"



4A STAIR SECTION
1/4" = 1'-0"



3A STAIR SECTION
1/4" = 1'-0"



2A SECOND FLOOR ENLARGED STAIR PLAN
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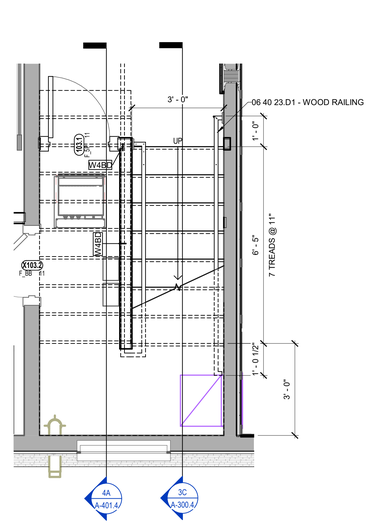

1A FIRST FLOOR ENLARGED STAIR PLAN
1/2" = 1'-0"

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

ENLARGED PLANS

A-401.4

A-401.4 - ENLARGED PLANS
2021-036.GAH - NEWTON COUNTY BOARD OF COMMISSIONERS - HAZELDEN ESTATE RESTORATION - BID PACKAGE 4
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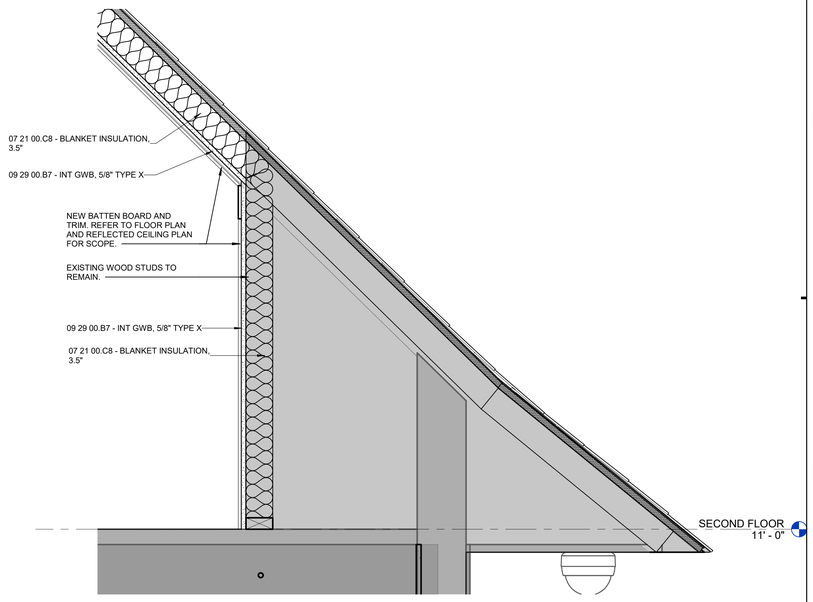
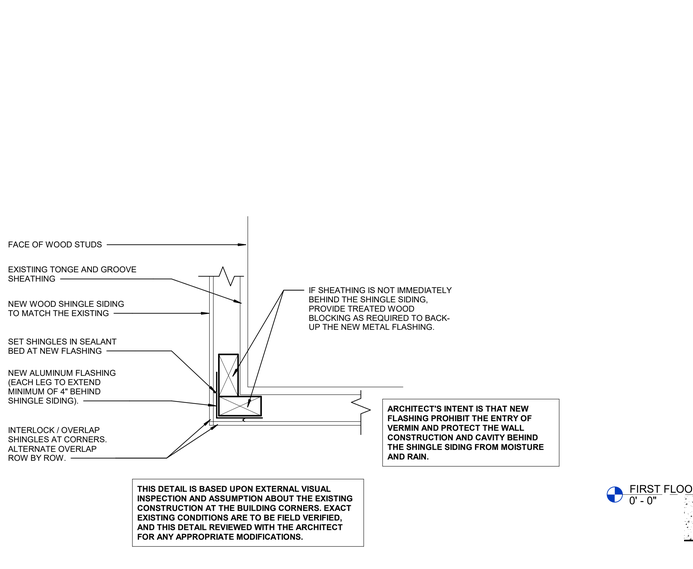
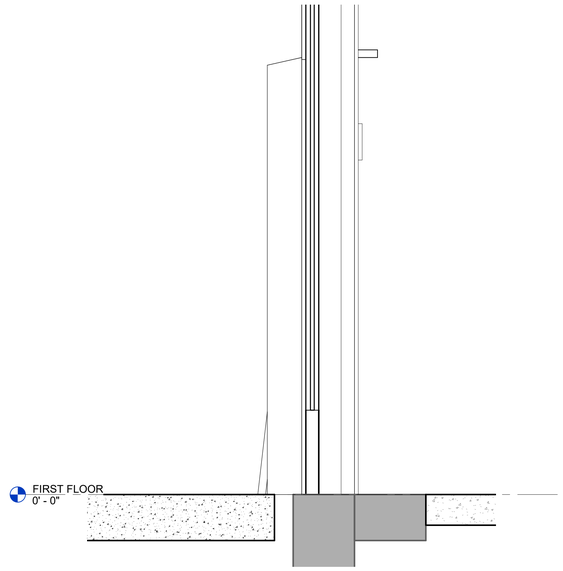


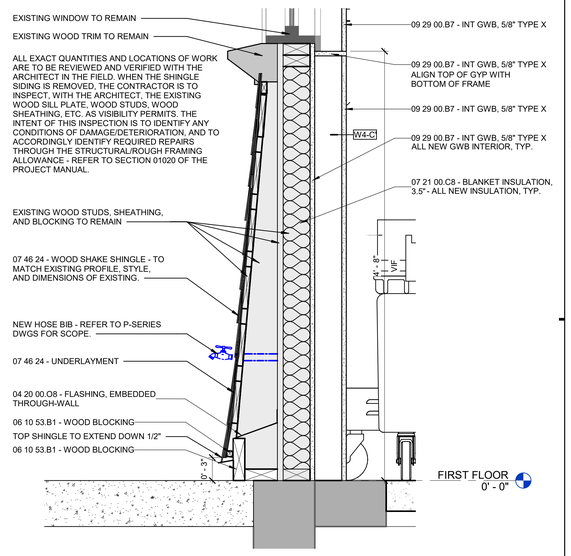
1D **ROOF SECTION**
1 1/2" = 1'-0"



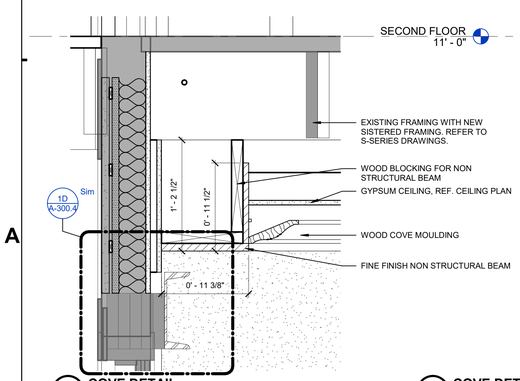
5B **TYP. PLAN VIEW OF VERTICAL CORNER AT SHINGLE SIDING**
1 1/2" = 1'-0"



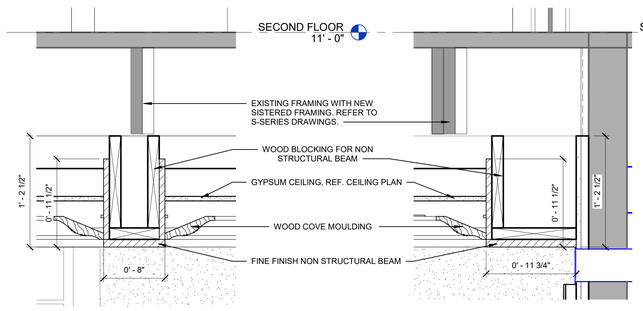
3B **Section 45**
1 1/2" = 1'-0"



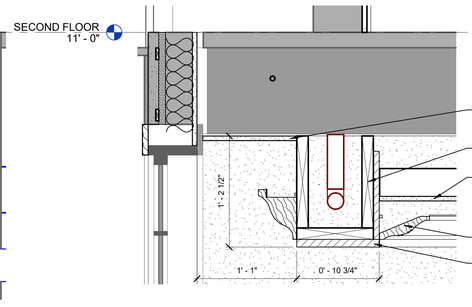
1B **WARMING KITCHEN WALL DETAIL**
1 1/2" = 1'-0"



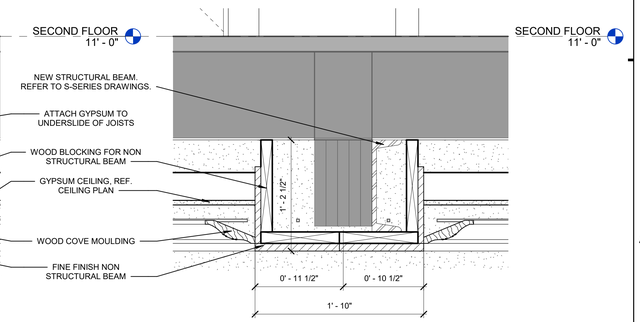
6A **COVE DETAIL**
1 1/2" = 1'-0"



5A **COVE DETAIL**
1 1/2" = 1'-0"



4A **COVE DETAIL**
1 1/2" = 1'-0"



2A **COVE DETAIL**
1 1/2" = 1'-0"

1A **COVE DETAIL**
1 1/2" = 1'-0"

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3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

TYPICAL DETAILS

A-500.4

A-500.4_TYPICAL DETAILS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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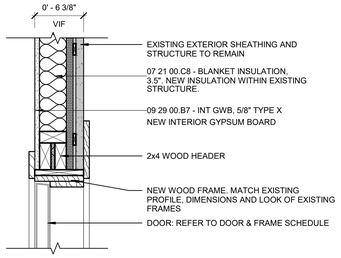
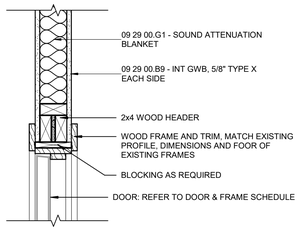
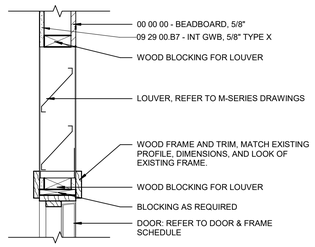


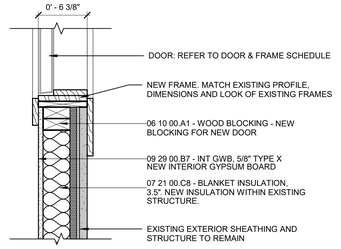
6E HEAD - PLASTER - TYPICAL EXTERIOR
1 1/2" = 1'-0"



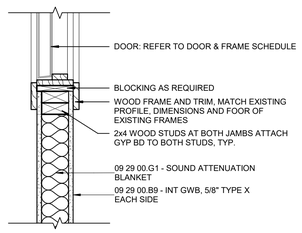
5E HEAD - TYPICAL INTERIOR
1 1/2" = 1'-0"



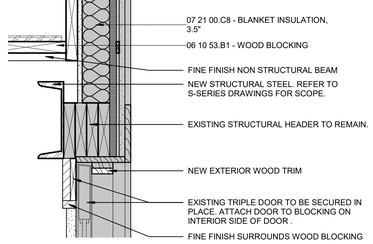
4E HEAD - LOUVER
1 1/2" = 1'-0"



6D JAMB - PLASTER - TYPICAL EXTERIOR
1 1/2" = 1'-0"



5D JAMB - TYPICAL INTERIOR
1 1/2" = 1'-0"

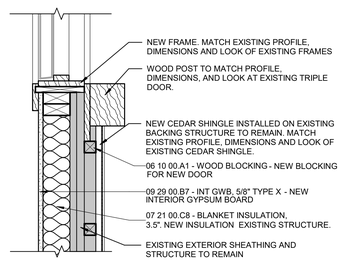


4D EVENT CENTER EXTERIOR DOOR HEAD
1 1/2" = 1'-0"

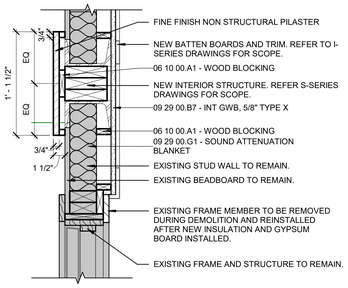
6C JAMB - WOOD TRIM
1 1/2" = 1'-0"

5C EVENT CENTER INTERIOR DOOR HEAD
1 1/2" = 1'-0"

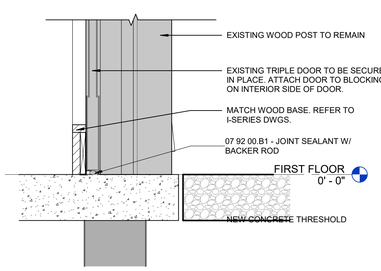
4C EVENT CENTER EXTERIOR DOOR JAMB
1 1/2" = 1'-0"



6B JAMB - CEDAR SHAKE
1 1/2" = 1'-0"



5B EVENT CENTER INTERIOR DOOR JAMB
1 1/2" = 1'-0"



4B EVENT CENTER EXTERIOR DOOR THRESHOLD
1 1/2" = 1'-0"

DOOR & FRAME SCHEDULE

MARK	DOOR PANEL TYPE	QTY	MATL	GLAZ	SIZE H	SIZE W	SIZE TH	FRAME MARK	FRAME MATL	FRAME GLAZ	LABEL	HDWR SET	NOTES	MARK
102.2	FG	2	WD	TG	7' - 0"	6' - 0"	0' - 1 3/4"		WD	--		10	5	102.2
103.1	F_5P	1	WD	--	6' - 0"	2' - 0"	0' - 1 3/4"		WD	--		11	5	103.1
104.1	F_5P	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"		WD	--		12	5	104.1
104.2	F_GP	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"		WD	--		13	5	104.2
105	FP_BB		ETR	--	7' - 0"	3' - 8"	0' - 1 3/4"		WD	--		4	105	
106	NV	1	ST	LP	7' - 0"	3' - 0"	0' - 1 3/4"		ST	--	1HR	3	106	
107	F_P	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"		WD	--		13	5	107
108	F_5P	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"		WD	--		14	5	108
109	F_5P	1	WD	--	7' - 0"	2' - 8"	0' - 1 3/4"		WD	--		12	5	109
110	F_5P	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"		WD	--		11	5	110
203	3P	1	WD	Glass	7' - 0"	3' - 0"	0' - 1 3/4"		WD	--		14	2	203
204	NV	1	ST	LP	7' - 0"	3' - 0"	0' - 1 3/4"		ST	--	1HR		3	204
206	5P	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"		WD	--		15	5	206
X100	G_BB	1	ETR	Glass	7' - 0"	2' - 9"	0' - 1 3/4"		ETR	--		09	1	X100
X102.1	G_BB	1	ETR	Glass	7' - 0"	3' - 3"	0' - 1 3/4"		ETR	--		01	4	X102.1
X102.3	G_BB2	3	ETR	Glass	7' - 5 3/4"	10' - 0"	0' - 1 3/4"		ETR	--		01	6	X102.3
X103.2	F_BB	1	ETR	--	6' - 0"	2' - 1"	0' - 1 3/4"		ETR	--		11	1	X103.2
X200	G_BB_c	1	WD	Glass	6' - 11 1/2"	3' - 6"	0' - 1 3/4"		WD	--		18	1	X200
X201.2	G_BB	1	ETR	Glass	6' - 11 1/2"	3' - 6"	0' - 1 3/4"		ETR	--		17	1	X201.2
X202	5P2	1	ETR	--	6' - 0"	2' - 4"	0' - 1 3/4"		ETR	--		01	4	X202

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lite or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

E. Verify locksets with the Owner during submittals.

ABBREVIATIONS

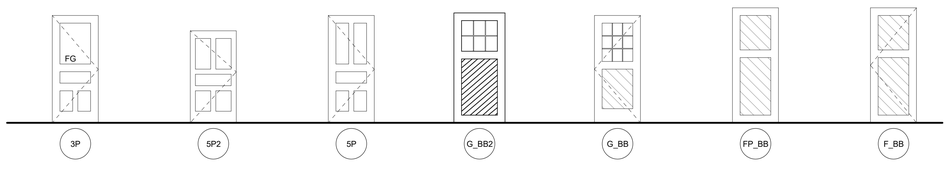
AL Aluminum
ACW Aluminum Clad Wood
HM Hollow Metal
ST Steel
WD Wood
TG Tempered Glazing
IG Insulated Glazing
LG Laminated Glazing
FG Frosted Glazing
SP Spandrel Panel
LP Lift Provided
ETR Existing to Remain

DOOR & FRAME SCHEDULE NOTES

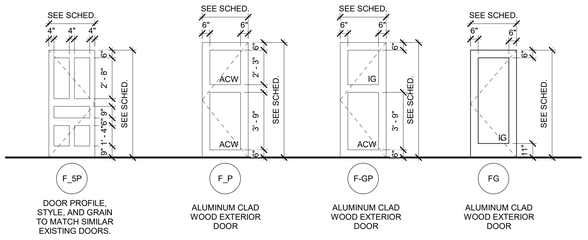
See Door Schedule

1. Existing door and frame to remain. New hardware only. Field verify all existing door and frame information as required for installation of new hardware.
2. Recreated historic looking door and frame. Scale dimensions off existing door shown in Detail 1C/A-600.
3. Door, frame, and hardware provided by lift manufacturer.
4. Existing door and frame to remain. Existing hardware to be cleaned and reinstalled.
5. New door in new frame.
6. Existing frame to remain. Existing doors to be secured in place. Existing hardware to be cleaned and reinstalled. Overhead track and hardware to be removed. Patch and repair existing doors to remain.

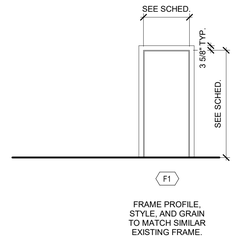
1C EXISTING HISTORIC DOOR
1 1/2" = 1'-0"



5.4.602 - EXISTING DOOR PANEL ELEVATIONS
1/4" = 1'-0"



5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



5.4.603 - FRAME ELEVATIONS
1/4" = 1'-0"

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

DOOR & FRAME SCHEDULE

A-600.4

A-600.4 - DOOR & FRAME SCHEDULE
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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5.5.100 - INTERIOR FINISH LEGEND

APPLICATION	SPEC.	MARK	DESCRIPTION	MANUFACTURER	COLLECTION/PATTERN	COLOR	COMMENTS
FLOORING							
FLOORING	06 40 23	WB-1	WOOD BASE	--	--	STAIN COLOR TO BE DETERMINED.	WOOD BASE TO MATCH PROFILE, SPECIES, GRAIN AND STAIN OF WOOD BASE IN THE MAIN HOUSE.
FLOORING	09 30 00	CTB-1	CERAMIC TILE BASE	SONOMA TILEMAKERS	STELLAR / DEL FRISCO	BLANCO	SIZE: 5 BY 8 INCHES
FLOORING	09 30 00	PMT-2	PORCELAIN MOSAIC TILE	DALTILE	KEYSTONES / PENNY ROUND ROSETTES	ARCTIC WHITE / BLACK	SIZE: 1 INCH.
FLOORING	09 65 13	VWB-2	VINYL WALL BASE	TARKETT	TRADITIONAL WALL BASE	BLACK 40	
FLOORING	09 65 19	LVT-1	LUXURY VINYL TILE	KARNDEAN	ART SELECT 7 IN WIDE PLANK	SPRING OAK RL01	SIZE: 7 BY 48 INCHES; INSTALL: ASHLAR.
FLOORING	09 67 23.13	CFC-1	CONCRETE FLOOR COATING [LEVEL 1]	SHERWIN WILLIAMS	RESUFLOR 3746 EPOXY	TO BE SELECTED	--
FLOORING	09 67 23.17	RSF-1	RESINOUS FLOORING [LEVEL 3]	SHERWIN WILLIAMS	RESUFLOR DECO QUARTZ	TO BE SELECTED	--
FLOORING	09 67 23.17	RSFB-1	RESINOUS FLOORING BASE [LEVEL 3]	SHERWIN WILLIAMS	RESUFLOR DECO QUARTZ	TO BE SELECTED	4 INCH INTEGRAL COVE BASE
FURNISHINGS							
FURNISHINGS	12 36 61.66	SS-1	SOLID SURFACE	WILSONART	SOLID SURFACE	TO BE SELECTED	--
SPECIALTY							
SPECIALTY	10 26 00	FRP-1	FIBER REINFORCED PANELS	MARLITE	SYMMETRIX / SUBWAY HORIZONTAL 6" X 3"	WHITE WITH BLACK GROUT	--
SPECIALTY	10 26 00	FRP-2	FIBER REINFORCED PANELS	MARLITE	SYMMETRIX / BEADBOARD	CUSTOM COLORED TO MATCH HP-1.	SIZE: 48 BY 48 INCHES;PROVIDE MANUFACTURER'S STANDARD WAINSCOT TRIM.
SPECIALTY	10 26 00	VWC-1	VINYL WALLCOVERING	INPRO	RICOCHET / STRATA	CAKE BATTER R612	--
WALLS							
WALLS	06 40 23	WD-1	WOOD BEAD BOARD	--	--	PAINT AS INDICATED ON DRAWINGS.	LOCATION: CORRIDORS
WALLS	09 30 0	CWT-1	CERAMIC WALL TILE	DALTILE	COLOR WHEEL / CLASSICS	ARTIC WHITE 0190	SIZE: 3 BY 6 INCHES: INSTALLATION: 1/3 RUNNING BOND.
WALLS	09 96 00.99	HP-1	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	NEUTRAL GROUND SW7568	GENERAL WALL PAINT COLOR
WALLS	09 96 00.99	HP-2	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	STATUS BRONZE SW7034	DOOR FRAMES COLOR

Interior General Notes

Reference A-001 for general plan notes. All notes may not apply to this sheet.

A. Furniture is not provided in this contract. Layouts and final design will need to be determined by the owner.

B. Reference architectural ceilings plans for ceiling heights and bulkhead color designations. Paint all bulkheads P-1 unless specifically noted otherwise. Bulkheads that are flush with walls provide color to match adjacent wall color.

C. Paint interior wood door frames and all stair assembly HP-2.

D. Paint general walls HP-1 or P-1 (Neutral) unless specifically noted otherwise.

E. Appliances and vending equipment are not provided in this contract.

F. Do not install vinyl wall base on interior brick unless specifically noted otherwise. Provide a caulk joint at floor level.

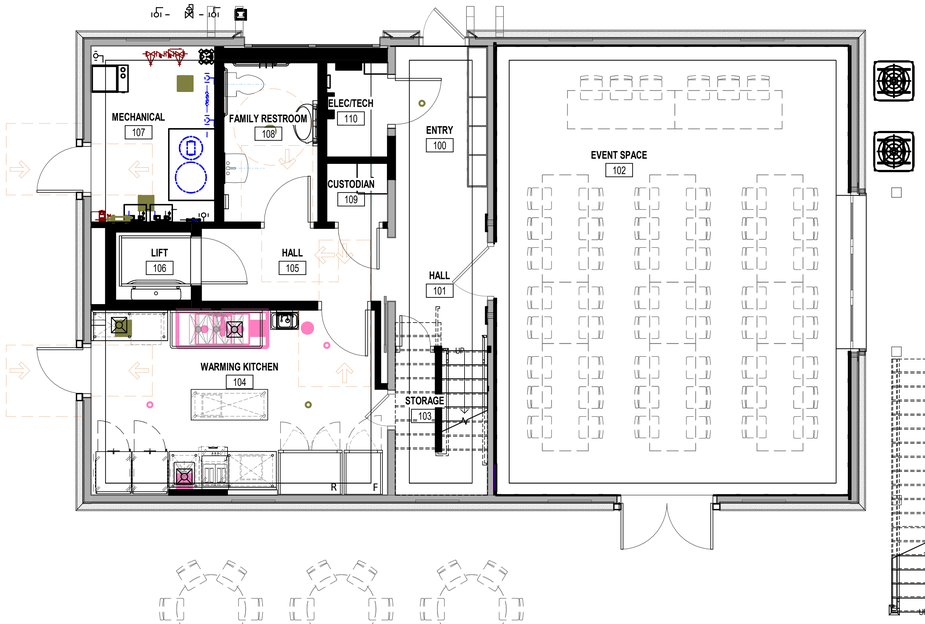
G. Provide vinyl wall base around all casework unless specificialy noted otherwise.

H. Existing wood base and trim to remain shall be painted to match wall where indicated.

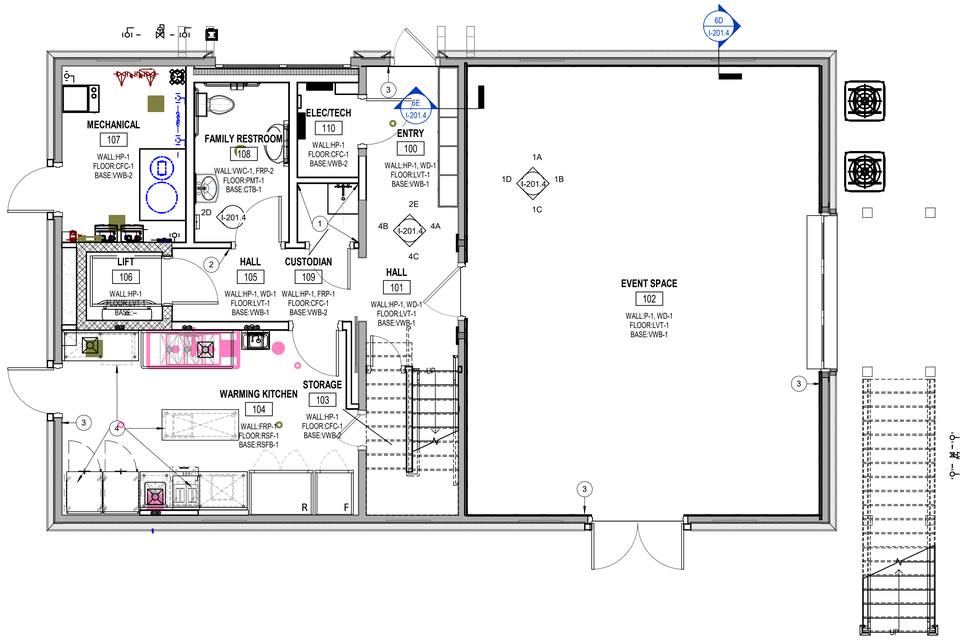
I. Existing wood floors and base to remain shall be professionally deep cleaned. Contractor shall clean surfaces to dust-free condition, free of stains, films and similar foreign substances. Contractor shall comply with accepted industry practices for cleaning floor and base of the existing type, subject to review and acceptance by Owner.

INTERIOR FLOOR PLAN NOTES

#	NOTE
1	10 26 00 - EXTENT OF WALL TO RECEIVE FIBER-REINFORCED PANELS, FRP-1.
2	10 14 00 - INSTALL ADA RESTROOM SIGN.
3	10 14 00 - INSTALL EXIT SIGN.
4	REFERENCE "K" SERIES DRAWINGS FOR EQUIPMENT TYPES AND LAYOUT.
5	EXISTING WOOD FLOORS TO REMAIN SHALL BE REFINISHED.
6	09 30 00 - EXTENT OF WALL TO RECEIVE CERAMIC WALL TILE, CWT-1. TERMINATE FINISH AT WOOD TRIM ADJACENT TO OUTSIDE CORNERS.



4A FIRST FLOOR FURNITURE PLAN (FOR REFERENCE)
1/4" = 1'-0"



1A FIRST FLOOR INTERIOR PLAN
1/4" = 1'-0"

SCHMIDT ASSOCIATES
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415 Massachusetts Ave., Indianapolis, IN 46204
731 Brent St. #203, Louisville, KY 40204

Project No. 2021-036.GAH
Project Date 01.08.2026
Produced AEC

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

FIRST FLOOR INTERIOR PLAN

IN101.4

IN101.4_FIRST FLOOR INTERIOR PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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1/29/2026 2:44:47 PM

5.5.100 - INTERIOR FINISH LEGEND

APPLICATION	SPEC.	MARK	DESCRIPTION	MANUFACTURER	COLLECTION/PATTERN	COLOR	COMMENTS
FLOORING							
FLOORING	06 40 23	WB-1	WOOD BASE	--	--	STAIN COLOR TO BE DETERMINED.	WOOD BASE TO MATCH PROFILE, SPECIES, GRAIN AND STAIN OF WOOD BASE IN THE MAIN HOUSE.
FLOORING	09 30 00	CTB-1	CERAMIC TILE BASE	SONOMA TILEMAKERS	STELLAR / DEL FRISCO	BLANCO	SIZE: 5 BY 8 INCHES
FLOORING	09 30 00	PMT-2	PORCELAIN MOSAIC TILE	DALTILE	KEYSTONES / PENNY ROUND ROSETTES	ARCTIC WHITE / BLACK	SIZE: 1 INCH.
FLOORING	09 65 13	VWB-2	VINYL WALL BASE	TARKETT	TRADITIONAL WALL BASE	BLACK 40	
FLOORING	09 65 19	LVT-1	LUXURY VINYL TILE	KARNDEAN	ART SELECT 7 IN WIDE PLANK	SPRING OAK RL01	SIZE: 7 BY 48 INCHES; INSTALL: ASHLAR.
FLOORING	09 67 23.13	CFC-1	CONCRETE FLOOR COATING [LEVEL 1]	SHERWIN WILLIAMS	RESUFLOOR 3746 EPOXY	TO BE SELECTED	--
FLOORING	09 67 23.17	RSF-1	RESINOUS FLOORING [LEVEL 3]	SHERWIN WILLIAMS	RESUFLOR DECO QUARTZ	TO BE SELECTED	--
FLOORING	09 67 23.17	RSFB-1	RESINOUS FLOORING BASE [LEVEL 3]	SHERWIN WILLIAMS	RESUFLOR DECO QUARTZ	TO BE SELECTED	4 INCH INTEGRAL COVE BASE
FURNISHINGS							
FURNISHINGS	12 36 61.66	SS-1	SOLID SURFACE	WILSONART	SOLID SURFACE	TO BE SELECTED	--
SPECIALTY							
SPECIALTY	10 26 00	FRP-1	FIBER REINFORCED PANELS	MARLITE	SYMMETRIX / SUBWAY HORIZONTAL 6" X 3"	WHITE WITH BLACK GROUT	--
SPECIALTY	10 26 00	FRP-2	FIBER REINFORCED PANELS	MARLITE	SYMMETRIX / BEADBOARD	CUSTOM COLORED TO MATCH HP-1.	SIZE: 48 BY 48 INCHES;PROVIDE MANUFACTURER'S STANDARD WAINSCOT TRIM.
SPECIALTY	10 26 00	VWC-1	VINYL WALLCOVERING	INPRO	RICOCHET / STRATA	CAKE BATTER R612	--
WALLS							
WALLS	06 40 23	WD-1	WOOD BEAD BOARD	--	--	PAINT AS INDICATED ON DRAWINGS.	LOCATION: CORRIDORS
WALLS	09 30 0	CWT-1	CERAMIC WALL TILE	DALTILE	COLOR WHEEL / CLASSICS	ARTIC WHITE 0190	SIZE: 3 BY 6 INCHES: INSTALLATION: 1/3 RUNNING BOND.
WALLS	09 96 00.99	HP-1	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	NEUTRAL GROUND SW7568	GENERAL WALL PAINT COLOR
WALLS	09 96 00.99	HP-2	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	STATUS BRONZE SW7034	DOOR FRAMES COLOR

Interior General Notes

Reference A-001 for general plan notes. All notes may not apply to this sheet.

A. Furniture is not provided in this contract. Layouts and final design will need to be determined by the owner.

B. Reference architectural ceilings plans for ceiling heights and bulkhead color designations. Paint all bulkheads P-1 unless specifically noted otherwise. Bulkheads that are flush with walls provide color to match adjacent wall color.

C. Paint interior wood door frames and all stair assembly HP-2.

D. Paint general walls HP-1 or P-1 (Neutral) unless specifically noted otherwise.

E. Appliances and vending equipment are not provided in this contract.

F. Do not install vinyl wall base on interior brick unless specifically noted otherwise. Provide a caulk joint at floor level.

G. Provide vinyl wall base around all casework unless specificlaly noted otherwise.

H. Existing wood base and trim to remain shall be painted to match wall where indicated.

I. Existing wood floors and base to remain shall be professionally deep cleaned. Contractor shall clean surfaces to dust-free condition, free of stains, films and similar foreign substances. Contractor shall comply with accepted industry practices for cleaning floor and base of the existing type, subject to review and acceptance by Owner.

INTERIOR FLOOR PLAN NOTES

#	NOTE
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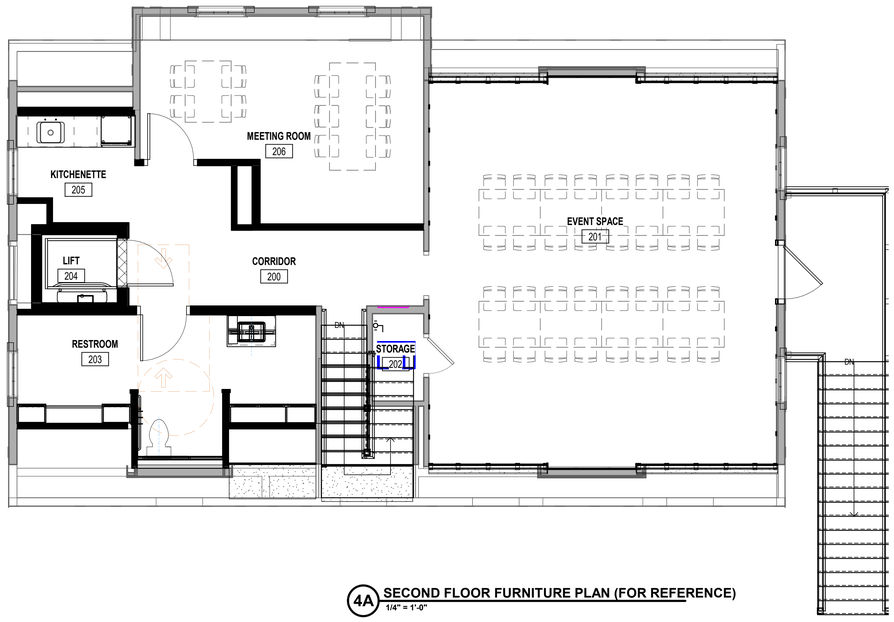
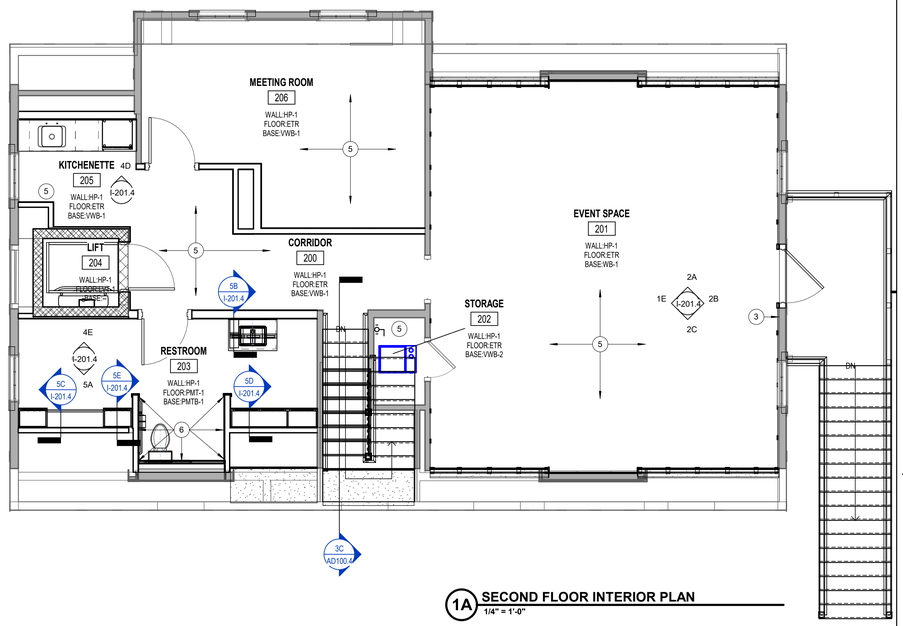


4A SECOND FLOOR FURNITURE PLAN (FOR REFERENCE)
1/4" = 1'-0"



1A SECOND FLOOR INTERIOR PLAN
1/4" = 1'-0"

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HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SECOND FLOOR INTERIOR PLAN

IN102.4

IN102.4_SECOND FLOOR INTERIOR PLAN
20-036 GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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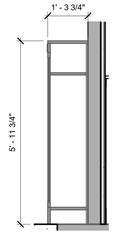
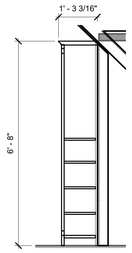
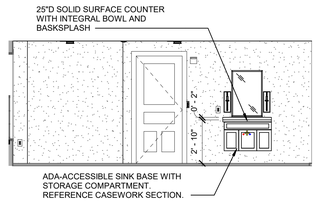


6E WOOD LOCKER CABINET SECTION
1/2" = 1'-0"

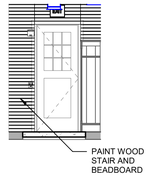


5E RESTROOM TALL STORAGE CABINET SECTION
1/2" = 1'-0"

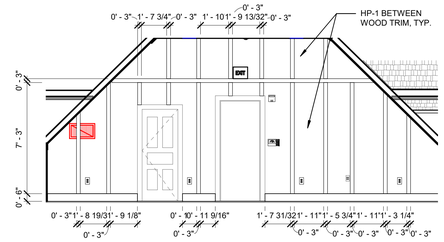


4E BATHROOM CASEWORK ELEVATION 1
1/4" = 1'-0"

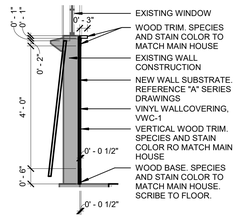
SPECIFICATION: 06 41 00 & 12 36 61.66
COUNTER: SOLID SURFACE (SS-1)
CABINETS: WOOD (WD-1)
DOOR/DRAWER PULL: N/A



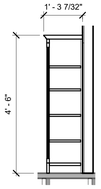
2E HALL 101 ELEVATION 1
1/4" = 1'-0"



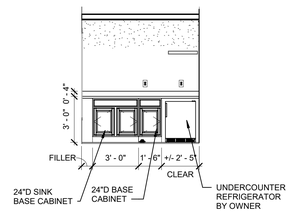
1E EVENT SPACE 201 ELEVATION 1
1/4" = 1'-0"



6D TYPICAL EVENT SPACE WOOD TRIM SECTION
1/2" = 1'-0"

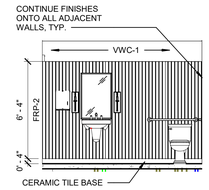


5D RESTROOM STORAGE CABINET SECTION
1/2" = 1'-0"

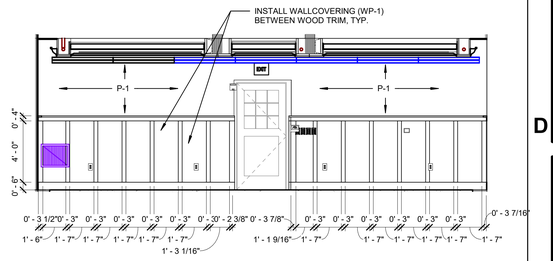


4D KITCHENETTE CASEWORK ELEVATION
1/4" = 1'-0"

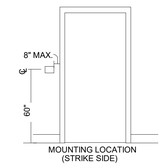
SPECIFICATION: 06 41 00 & 12 36 61.66
COUNTER: SOLID SURFACE (SS-1)
CABINETS: WOOD (WD-1)
DOOR/DRAWER PULL: RICHEILEU; TRADITIONAL METAL PULL 790; ANTIQUE FINISH



2D TYPICAL RESTROOM WALL TILE ELEVATION
1/4" = 1'-0"



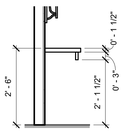
1D EVENT SPACE 102 ELEVATION 4
1/4" = 1'-0"



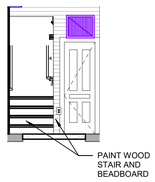
SIGNAGE DETAILS

MATERIAL:	ACRYLIC PANEL SIGN
GRAPHICS:	HELVETICA REGULAR
BACKGROUND COLOR:	TO BE SELECTED
TEXT COLOR:	TO BE SELECTED
MOUNTING:	CUSHION DOUBLED SIDED TAPE

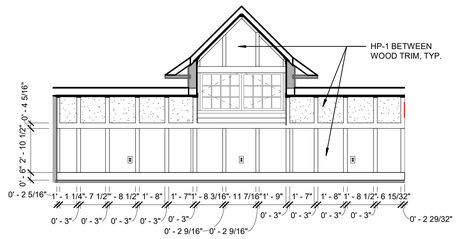
6C SIGNAGE DETAILS
6" = 1'-0"



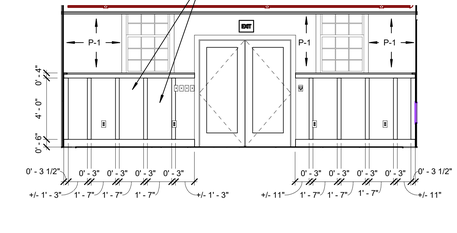
5C RESTROOM COUNTER SECTION
1/2" = 1'-0"



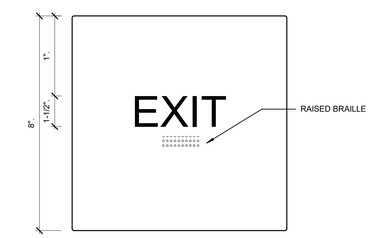
4C HALL 101 ELEVATION 4
1/4" = 1'-0"



2C EVENT SPACE 201 ELEVATION 4
1/4" = 1'-0"

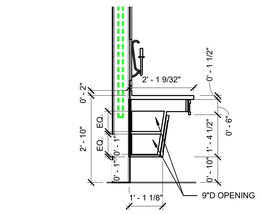


1C EVENT SPACE 102 ELEVATION 3
1/4" = 1'-0"

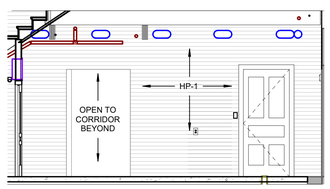


SIGN TYPE "B"

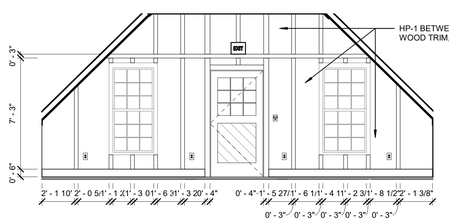
6B SIGN TYPE "B"
6" = 1'-0"



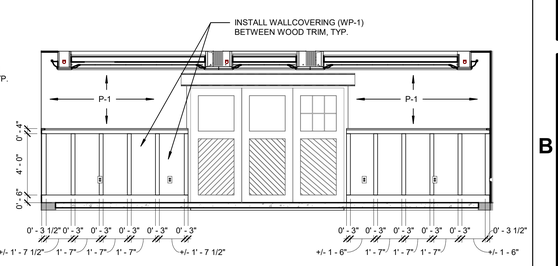
5B ADA SINK BASE SECTION
1/2" = 1'-0"



4B HALL 101 ELEVATION 3
1/4" = 1'-0"



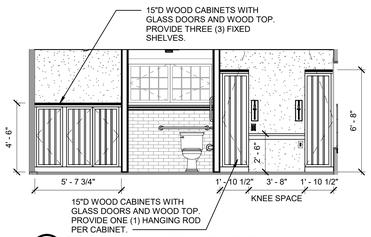
2B EVENT SPACE 201 ELEVATION 3
1/4" = 1'-0"



1B EVENT SPACE 102 ELEVATION 2
1/4" = 1'-0"

SIGN TYPE "A"

6A SIGN TYPE "A"
6" = 1'-0"



5A BATHROOM CASEWORK ELEVATION 2
1/4" = 1'-0"

SPECIFICATION: 06 41 00 & 12 36 61.66
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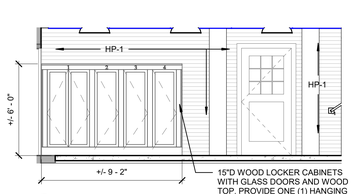
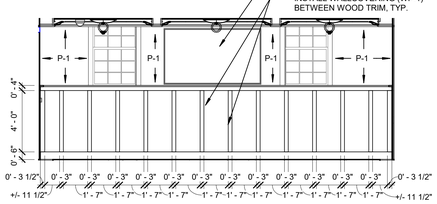
CABINETS: WOOD (WD-1)
DOOR/DRAWER PULL: RICHEILEU; TRADITIONAL METAL PULL 790; ANTIQUE FINISH



4A HALL 101 ELEVATION 2
1/4" = 1'-0"

SPECIFICATION: 06 40 23
CABINETS: WOOD
DOOR/DRAWER PULL: RICHEILEU; TRADITIONAL METAL PULL 790; ANTIQUE FINISH

2A EVENT SPACE 201 ELEVATION 2
1/4" = 1'-0"



1A EVENT SPACE 102 ELEVATION 1
1/4" = 1'-0"

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

INTERIOR ELEVATIONS, DETAILS AND SIGN TYPES

I-201.4

USR: K_WINDSOR.EUSTORIS, DETAILS AND SIGN TYPES
2021-036.GAH | NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN_I_2021.DWG
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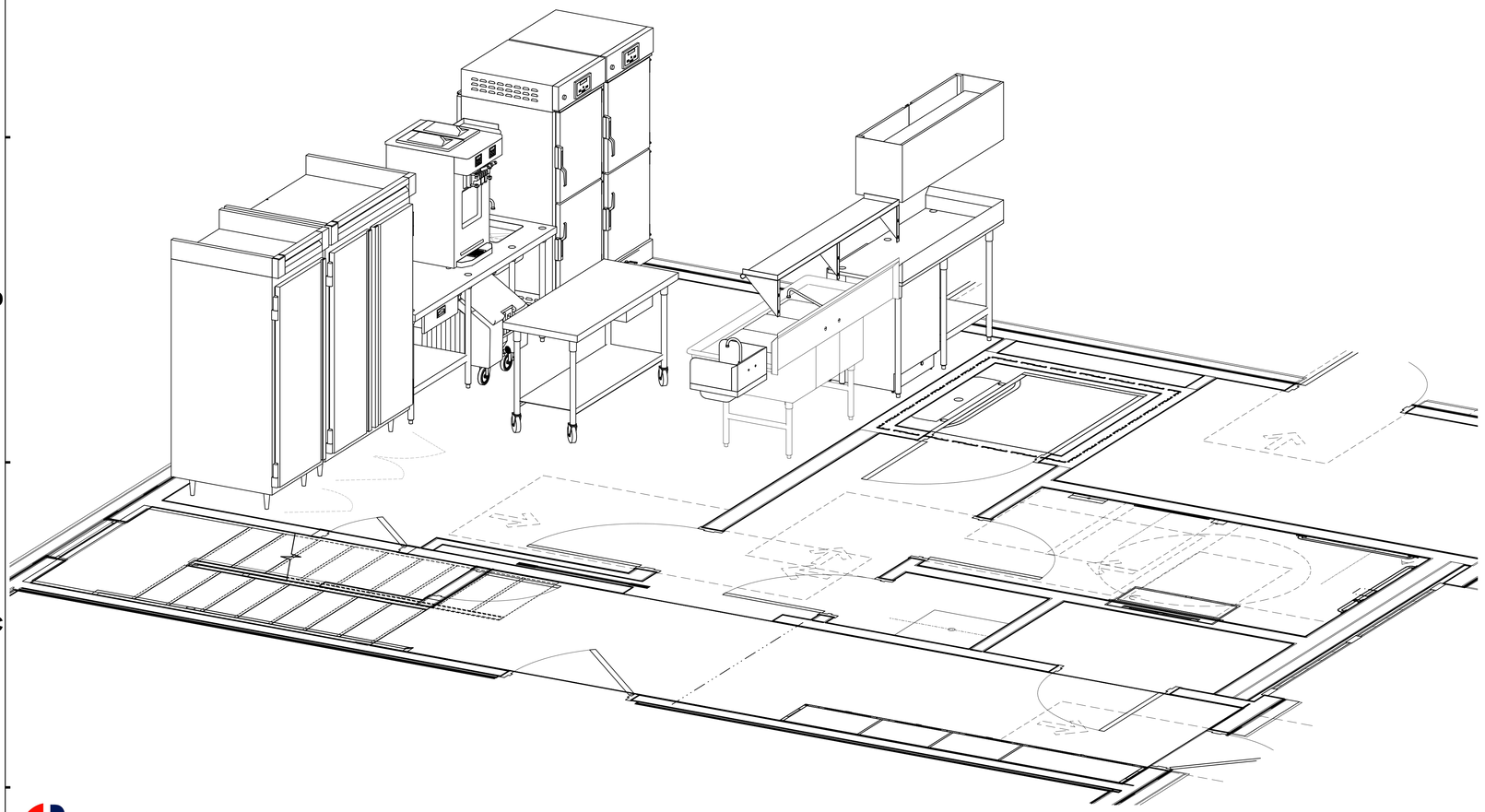
HAZELDEN ESTATE RESTORATION



REITANO DESIGN GROUP

FOODSERVICE SHEET INDEX

SHEET	DRAWING NAME
K100.4	FOODSERVICE GENERAL NOTES & SHEET INDEX
K101.4	FOODSERVICE LAYOUT AND SPECIAL CONDITIONS LAYOUT
K200.4	FOODSERVICE EQUIPMENT SCHEDULE
K300.4	FOODSERVICE PLUMBING & ELECTRICAL LAYOUT

GENERAL SYMBOL LEGEND

1	EQUIPMENT ITEM NUMBER
K101	ENLARGED PLAN CALL OUT
A / K600	EQUIPMENT ELEVATION CALL OUT
1 / K600	EQUIPMENT DETAIL CALL OUT
1 / K600	EQUIPMENT SECTION CALL OUT
1	SPOT LOCATION CALL OUT

ABBREVIATION LEGEND

AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AGA	AMERICAN GAS ASSOCIATION	MD	MECHANICAL DIVISION
A	AMPERAGE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MFG	MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
BTU	BRITISH THERMAL UNIT	MISC	MISCELLANEOUS
CLG	CEILING	NIKEC	NOT IN KITCHEN EQUIPMENT CONTRACT
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
CONN	CONNECTION	OC	ON CENTER
CONST	CONSTRUCTION	OD	OUTSIDE DIAMETER
CW	COLD WATER	P	PLUG
D	DIRECT	PC	PLUMBING CONTRACTOR
DCO	DUPLEX CONVENIENCE OUTLET	PD	PLUMBING DIVISION
DFA	DROP FROM ABOVE	PH	PHASE
DIM	DIMENSION	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	R	RADIUS
EC	ELECTRICAL CONTRACTOR	ST STL	STAINLESS STEEL
ED	ELECTRICAL DIVISION	SHT	SHEET
ELEC	ELECTRIC, ELECTRICAL	S/S	STAINLESS STEEL
EXIST	EXISTING	STD	STANDARD
FD	FLOOR DRAIN	SU	STUB UP FROM FLOOR
FS	FLOOR SINK	TYP	TYPICAL
GA	GAUGE	V	VOLTAGE
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR		
GD	GENERAL DIVISION		
GPH	GALLONS PER HOUR		
HP	HORSEPOWER		
HVAC	HEATING, VENTILATION & AIR CONDITIONING		
HW	HOT WATER		
ID	INSIDE DIAMETER		
KEC	KITCHEN EQUIPMENT CONTRACTOR		
KW	KILOWATT		
MAX	MAXIMUM		
MBTU	1,000 BTU'S		

GENERAL DRAWING SET NOTES

1. THESE DRAWINGS HAVE BEEN PRODUCED USING A GENERAL ARRANGEMENT OF EQUIPMENT FROM ONLY THE INFORMATION THAT WAS MADE AVAILABLE. THESE DRAWINGS ARE INFORMATION BY NATURE FOR BIDDING PURPOSES ONLY AND ARE NOT TO BE USED IN ANY WAY FOR CONSTRUCTION. REITANO DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF MEASUREMENTS TAKEN FROM THESE DRAWINGS. FABRICATORS, CONTRACTORS AND OTHER PARTIES UTILIZING THESE PLANS, IN CONNECTION WITH THIS JOB, ARE RESPONSIBLE FOR SECURING THEIR OWN MEASUREMENTS.
2. THE KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBLE TO REVIEW THE PLANS FOR ACCURACY AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO THE FABRICATION OF ANY EQUIPMENT. VERIFY ALL EQUIPMENT CLEARANCES THRU BUILDING DOORS, HALLWAYS OR ENTRY POINTS AS NOT ALL EQUIPMENT WILL FIT THRU STANDARD OPENINGS. THE KITCHEN EQUIPMENT CONTRACTOR IS TO NOTIFY REITANO DESIGN GROUP OF ANY ERRORS, OMISSIONS, AMBIGUITIES, DISCREPANCIES OR IRREGULARITIES PRIOR TO START OF CONSTRUCTION.
3. THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS MUST BE CONSIDERED A COMPLETE BODY OF WORK. ALL WORK IS TO BE COMPLETED IN A CRAFTSMAN LIKE MANNER AND CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES. ANY WORK CALLED FOR IN THE DRAWINGS OR SPECIFICATIONS, INCLUDING ANY WORK THAT CAN REASONABLY BE CONSIDERED APART OF INSTALLATION AND NECESSARY TO COMPLETE THE PROJECT, SHALL BE INCLUDED.
4. ANY DISCREPANCIES BETWEEN THESE DRAWINGS, BUILDING AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT INSTALLATION, FABRICATION AND/OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF REITANO DESIGN GROUP. REITANO DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR ANY CHANGES MADE NECESSARY BY THE LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS OR CHANGES MADE NECESSARY IN EQUIPMENT SHOWN ON THESE DRAWINGS.
5. THESE DRAWINGS REFER TO WORK TO BE PERFORMED BY OTHER TRADES NOT INTENDED TO BE PART OF THE KITCHEN EQUIPMENT CONTRACTOR'S SCOPE OF WORK. THESE TRADES ARE REFERENCED USING THE GENERALLY ACCEPTED TITLES FOUND IN THE ABBREVIATION LEGEND. IT IS NOT THE INTENT OF THESE TITLES TO ASSIGN WORK, BUT RATHER TO CLARIFY COORDINATION BETWEEN THE KITCHEN EQUIPMENT CONTRACTOR AND OTHER TRADES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL NOTES ON THESE DRAWINGS AND TRANSMITTING THE REQUIRED INFORMATION TO THE RESPECTIVE SUBCONTRACTORS.
6. THE BASIS OF DESIGN FOR ALL DRAWINGS, SPECIFICATIONS, AND DETAIL REFERENCES IS THE FIRST MANUFACTURER AND MODEL LISTED. IF ANOTHER LISTED MANUFACTURER IS CHOSEN BY THE KITCHEN EQUIPMENT CONTRACTOR, IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE A MODEL THAT IS EQUAL IN PRODUCTION CAPABILITIES, CAPACITY, AND PERFORMANCE TO THE FIRST MANUFACTURER AND MODEL LISTED. THE KITCHEN EQUIPMENT CONTRACTOR IS ALSO TO VERIFY, COORDINATE, AND ALLOW FOR PROPER INSTALLATION OF EQUIPMENT; TAKING INTO ACCOUNT POSSIBLE REVISIONS FOR UTILITY CONNECTIONS, LOADS, AND PHYSICAL SIZES. IN THE EVENT THERE ARE ANY UP CHARGES OR CHANGE ORDERS BY OTHER TRADES AS A RESULT OF THE KITCHEN EQUIPMENT CONTRACTOR SUBMITTING ANOTHER LISTED MANUFACTURER, THOSE CHARGES SHALL BE THE SOLE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR.
7. THE CONCEPTS, DESIGNS, PLANS, DETAILS, ETC. SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF REITANO DESIGN GROUP, AND WERE CREATED FOR USE ON THIS SPECIFIC PROJECT. NONE OF THIS INFORMATION SHALL BE USED BY ANY PERSON OR FIRM FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF REITANO DESIGN GROUP. THE OWNER MAY RETAIN COPIES FOR INFORMATION AND REFERENCE IN CONNECTION ONLY WITH THIS PROJECT.

GENERAL ENVIRONMENTAL NOTES

1. GENERAL CONTRACTOR TO PROVIDE SMOOTH AND LEVEL FLOORS BELOW ALL KITCHEN EQUIPMENT UNLESS THESE DRAWINGS SHOW OTHERWISE. FLOORS SHALL BE IMPERVIOUS TO WATER, GREASE, AND ACID AND OF EASILY CLEANABLE CONSTRUCTION. FLOORS IN ALL AREAS WHERE FOOD IS PREPARED, PACKAGED OR STORED OR WHERE REFUSE OR GARBAGE IS STORED, JANITORIAL FACILITIES AND IN ALL TOILET AND HAND WASHING AREAS, SHALL BE AN APPROVED TYPE THAT CONTINUES UP THE WALL 6" WITH A MINIMUM 3/8" RADIUS COVE BASE.
2. GENERAL CONTRACTOR TO PROVIDE SMOOTH AND NON-ABSORBENT WALLS IN ALL FOOD PREPARATION AND DISHWASHING AREAS. WALLS TO BE PROVIDED WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS ENAMEL. ALL WALLS WITHIN A.G.A. CLEARANCE REQUIREMENTS FOR COOKING EQUIPMENT SHALL BE CONSTRUCTED OF HEAT PROOF, NON-COMBUSTIBLE MATERIALS. GENERAL CONTRACTOR TO VERIFY CONSTRUCTION PER LOCAL CODES.
3. GENERAL CONTRACTOR TO PROVIDE SMOOTH AND NON-ABSORBENT CEILINGS IN ALL FOOD PREPARATION AND DISHWASHING AREAS. CEILINGS TO BE PROVIDED WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS FINISH.
4. IN EVERY ROOM AND AREA WHICH FOOD IS PREPARED, MANUFACTURED, PROCESSED OR PACKAGED, OR IN WHICH UTENSILS ARE CLEANED, LIGHTING SHALL BE PROVIDED TO PRODUCE INTENSITY OF NOT LESS THAN 70 FOOTCANDLES AS MEASURED THIRTY INCHES (30") ABOVE THE FLOOR. FOOD AND UTENSIL STORAGE ROOMS, REFRIGERATION STORAGE, TOILET AND DRESSING ROOMS SHALL BE PROVIDED WITH AT LEAST 50 FOOTCANDLES OF LIGHT. LIGHT FIXTURES IN AREAS WHERE FOOD IS PREPARED, OR WHERE OPEN FOOD IS STORED, OR WHERE UTENSILS ARE CLEANED, SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.
5. ALL DELIVERY DOORS LEADING TO THE OUTSIDE SHALL OPEN OUTWARD, BE SELF CLOSING, AND SHALL BE PROVIDED WITH AN OVERHEAD AIR CURTAIN. AIR CURTAIN SHALL PRODUCE A DOWNWARD AND OUTWARD AIRFLOW NOT LESS THAN 3" THICK AT THE NOZZLE WITH AN AIR VELOCITY OF NOT LESS THAN 1600 FPM ACROSS ENTIRE OPENING.
6. TOILET FACILITIES SHALL BE PROVIDED WITHIN EACH FOOD ESTABLISHMENT CONVENIENT FOR THE EMPLOYEES. ALL TOILET ROOMS SHALL BE PROVIDED WITH MECHANICAL VENTILATION APPROVED BY THE HEALTH DEPARTMENT. A ROOM ON ENCLOSURE AT LEAST 5' X 5', SEPARATED FROM TOILETS, FOOD STORAGE OR FOOD PREP AREAS SHALL BE PROVIDED WHERE EMPLOYEES MAY CHANGE AND STORE THEIR CLOTHES AND PERSONAL BELONGINGS.
7. LAVATORY SINKS SHALL BE PROVIDED IN ALL FOOD PREPARATION AND DISHWASHING AREAS. SOAP AND SANITARY TOWELS SHALL BE PROVIDED IN SINGLE SERVICE, PERMANENTLY INSTALLED, DISPENSERS AT THE LAVATORY SINKS.
8. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ADA CLEARANCE REQUIREMENTS FOR ALL SPACES, DOOR STRIKES, EXITS, AND AISLE WAYS AS THEY PERTAIN TO CODE ENFORCEMENT AND INTERPRETATION.
9. ALL WORK SHALL CONFORM TO LOCAL BUILDING, SAFETY, FIRE, AND HEALTH REGULATIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LICENSES AND BUILDING REQUIREMENTS, PAYING FEES, AND PASSING INSPECTION. IT IS HIS RESPONSIBILITY TO VERIFY ALL NECESSARY CODES AND REQUIREMENTS PRIOR TO IMPLEMENTATION.
10. ALL PUBLIC USE AREAS ARE TO BE PROVIDED WITH HEATED AND REFRIGERATED CONDITIONING DESIGNED TO PROVIDE A POSITIVE PRESSURE AT OUTSIDE DOORS. (PROVIDED AND INSTALLED BY HVAC CONTRACTOR.)
11. INTENDED ENVIRONMENT FOR REFRIGERATED GLASS FRONT & OPEN FRONT DISPLAY CASES TO BE 75°F/55% RELATIVE HUMIDITY.

GENERAL EQUIPMENT NOTES

1. EQUIPMENT WHICH IS FIXED AND WHERE IT ABUTTS OTHER FIXED EQUIPMENT, BUILDING WALLS OR FLOOR SHALL BE SEALED THERETO WITH SILICONE. GAPS BETWEEN EQUIPMENT EXCEEDING 1/4" IN WIDTH MUST BE TRIMMED OUT WITH STAINLESS STEEL OR MATCHING TRIM PRIOR TO BEING SEALED.
2. HOT WATER SUPPLY TO ALL FOOD PREPARATION AND THREE COMPARTMENT SINKS SHALL BE 120 DEGREES MAXIMUM. HOT WATER SUPPLY TO ALL DISHMACHINES SHALL BE 120 DEGREES MINIMUM.
3. ALL COUNTERS ARE TO BE FABRICATED PROPERLY TO SUPPORT THE SPECIFIED COUNTERTOP MATERIAL IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES. ALL "DROP-IN" EQUIPMENT AND OTHER EQUIPMENT "ATTACHED TO", "SET ON" OR "BUILT-IN" TO THE COUNTER TOP MATERIAL TO BE INSTALLED IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES AND TECHNICAL BULLETINS FOR THE INSTALLATION OF COMMERCIAL FOOD SERVICE EQUIPMENT.
4. ALL FOOD SERVICE EQUIPMENT SHALL BE MANUFACTURED , FABRICATED, FURNISHED & INSTALLED IN STRICT ACCORDANCE WITH, AND BEAR THE EMBLEM OF, THE NATIONAL SANITATION FOUNDATION (NSF) AS WELL AS ANY FEDERAL, STATE & LOCAL CODE REQUIREMENTS.
5. ALL REFRIGERATION EQUIPMENT SHALL HAVE A THERMOMETER WHICH IS EASILY READABLE IN PROPER WORKING CONDITION.

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced DK ML

SARAH KATHLEEN HUMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

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#	Revision	Date

3705 IN- 16
Brook, IN 47922

KEY PLAN

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - BID PACKAGE 4

FOODSERVICE GENERAL NOTES & SHEET INDEX

K100.4

K100.4 - FOODSERVICE GENERAL NOTES & SHEET INDEX
20-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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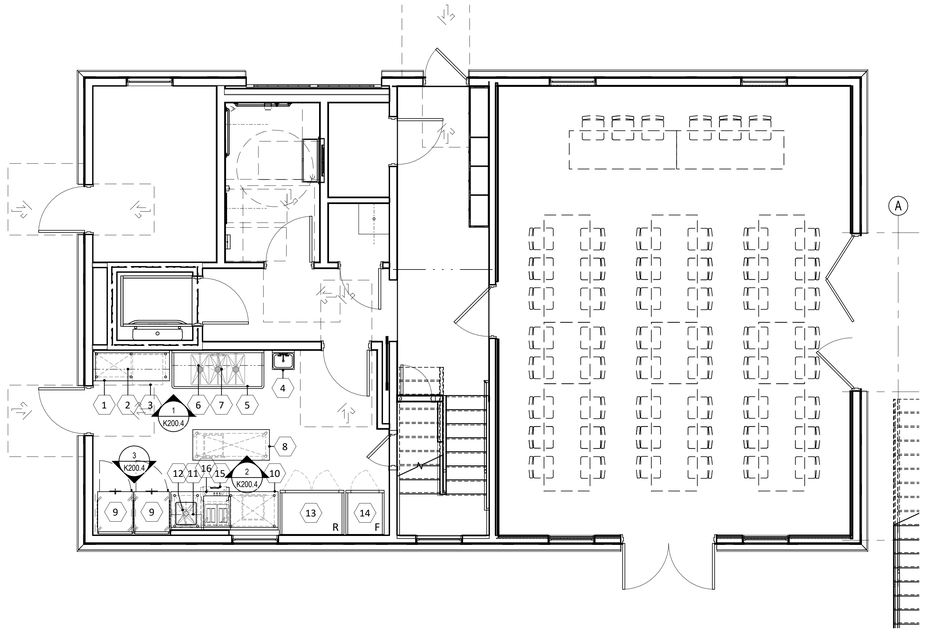
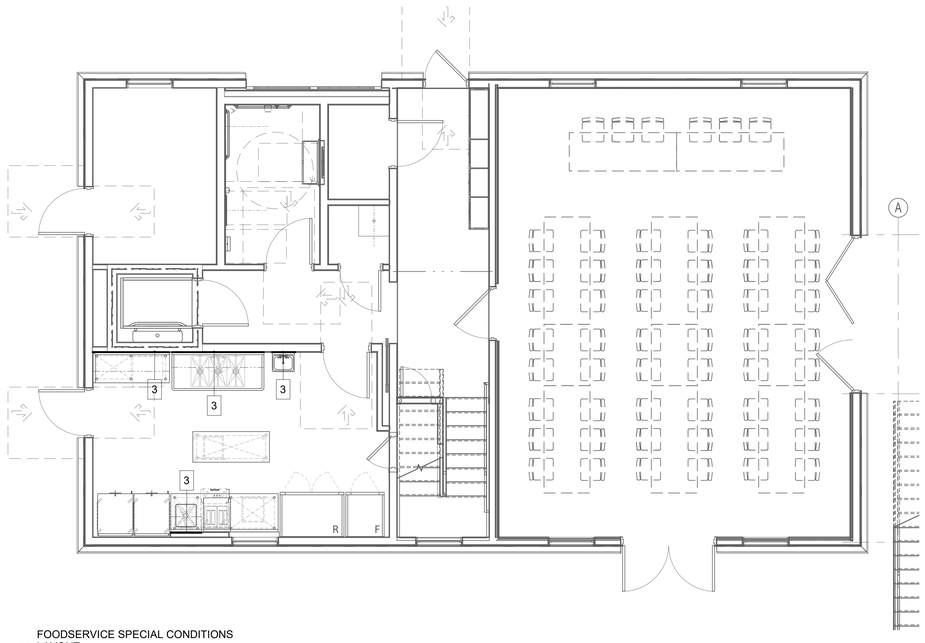


1 FOODSERVICE LAYOUT
1/4" = 1'-0"



2 FOODSERVICE SPECIAL CONDITIONS LAYOUT
1/4" = 1'-0"

FOODSERVICE EQUIPMENT SCHEDULE				
ITEM #	QTY	DESCRIPTION	MANUFACTURER	MODEL
1	1	WORKTABLE	JOHN BOOS	ST4R5-2460SBK
2	1	WALL CABINET	JOHN BOOS	WCH-60
3	1	UNDERCOUNTER DISHWASHER	MEIKO	FV40.2
4	1	WALL MOUNT HAND SINK	JOHN BOOS	PBHS-W-1410-SSLR
5	1	THREE-COMPARTMENT SINK	FABRICATED	CUSTOM
6	1	WALL SHELF	FABRICATED	CUSTOM
7	1	SPLASH MOUNT FAUCET	T&S BRASS	B-0231-CC-CR
8	1	MOBILE WORKTABLE	FABRICATED	CUSTOM
9	2	MOBILE HEATED CABINET	WINSTON	HOV3-14UV
10	1	WORKTABLE	FABRICATED	CUSTOM
11	1	WALL SHELF	FABRICATED	CUSTOM
12	1	SPLASH MOUNT FAUCET	T&S BRASS	B-0231-CC-CR
13	1	REACH-IN REFRIGERATOR	UTILITY REFRIGERATOR	R-50-SS-2S-D
14	1	REACH-IN FREEZER	UTILITY REFRIGERATOR	F-30-SS-1S-D
15	1	ICE CADDY	CAMBRO	ICS100L191
16	1	ICE CREAM MACHINE	BY OWNER	NOT IN KEC CONTRACT

SPECIAL CONDITIONS LAYOUT NOTES

1. NOT IN USE.
2. NOT IN USE.
3. (BY GENERAL DIVISION) PROPERLY REINFORCE ALL WALLS AND/OR CEILINGS TO SUPPORT ALL WALL AND/OR CEILING SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION.
4. NOT IN USE.
5. NOT IN USE.

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Project Date 01.08.2026
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Brook, IN 47922

KEY PLAN

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - BID PACKAGE 4

FOODSERVICE LAYOUT AND SPECIAL CONDITIONS LAYOUT

K101.4

K101.4_FOODSERVICE LAYOUT AND SPECIAL CONDITIONS LAYOUT
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
C:\Users\dkuhn\Documents\Project Data\2021 Project Files\2021036 - SCHMIDT - Phase 3 Design And Area Restoration\3. Drawings\6. Revit\2026 CORE (DK).RVT Thursday, January 29, 2026 2:59:00 PM

EQUIPMENT / MECHANICAL / ELECTRICAL

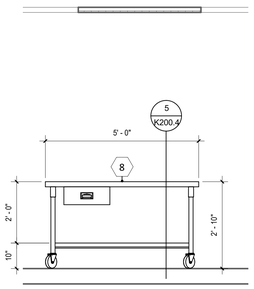
ITEM NUMBER	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	MECH: HOT WATER	MECH: COLD WATER	MECH: AFF	GAS: CONN. SIZE	GAS: MBTU	GAS: AFF	MECH: WASTE	MECH: AFF	MECH: REMARKS	ELEC: ITEM NUMBER	ELEC: VOLTAGE	ELEC: PHASE	ELEC: AMPS	ELEC: KW	ELEC: HP	ELEC: CONN.	ELEC: AFF	ELEC: REMARKS
1	1	WORKTABLE	JOHN BOOS	ST4R5-2460SBK										1								
2	1	WALL CABINET	JOHN BOOS	WCH-60										2								
3	1	UNDERCOUNTER DISHWASHER	MEIKO	FV40.2	0.50	0.50	20				0.75			3	240	1	39.6			P	24	NEMA 15-50P
4	1	WALL MOUNT HAND SINK	JOHN BOOS	PBHS-W-1410-SSLR	0.50	0.50	21				1.50	24		4								
5	1	THREE-COMPARTMENT SINK	FABRICATED	CUSTOM							2.00	FS	DRAIN TO FLOOR SINK	5								
6	1	WALL SHELF	FABRICATED	CUSTOM										6								
7	1	SPLASH MOUNT FAUCET	T&S BRASS	B-0231-CC-CR	0.50	0.50	14							7								
8	1	MOBILE WORKTABLE	FABRICATED	CUSTOM										8								
9	2	MOBILE HEATED CABINET	WINSTON	HOV3-14UV										9	120	1	19.1			P	36	NEMA 5-20P
10	1	WORKTABLE	FABRICATED	CUSTOM										10								
11	1	WALL SHELF	FABRICATED	CUSTOM										11								
12	1	SPLASH MOUNT FAUCET	T&S BRASS	B-0231-CC-CR	0.50	0.50	14							12								
13	1	REACH-IN REFRIGERATOR	UTILITY REFRIGERATOR	R-50-SS-2S-D										13	120	1	11.7			P	86	NEMA 5-15P
14	1	REACH-IN FREEZER	UTILITY REFRIGERATOR	F-30-SS-1S-D										14	120	1	10.5			P	86	NEMA 5-15P
15	1	ICE CADDY	CAMBRO	ICS100L191										15								
16	1	ICE CREAM MACHINE	BY OWNER	NOT IN KEC CONTRACT										16								

FURNISH HORIZONTAL RECEPTACLE @ +48 AFF WHEN MOUNTED ABOVE COUNTERTOP

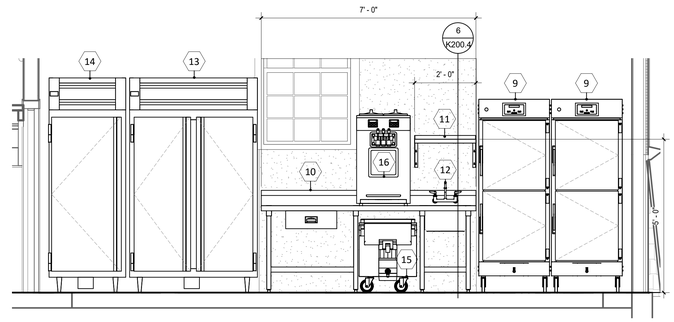
CONVENIENCE FIXTURE SCHEDULE

MARK	QUANTITY	DESCRIPTION	VOLTAGE	PHASE	AMPS	AFF	REMARKS
DR2	3	DUPLEX CONVENIENCE RECEPTACLE	120	1	16.0	48	FURNISH HORIZONTAL RECEPTACLE WHEN MOUNTED ABOVE COUNTERTOP

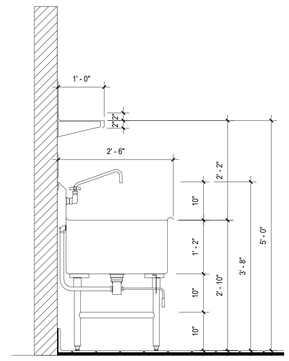
1 ITEM# 5 - THREE COMPARTMENT SINK
1/2" = 1'-0"



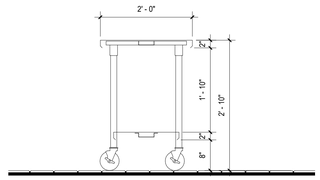
2 ITEM# 8 - MOBILE WORKTABLE
1/2" = 1'-0"



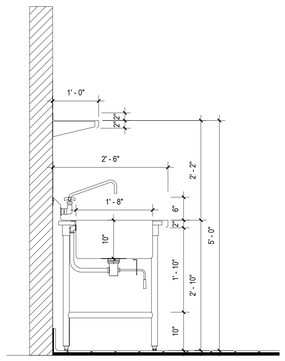
3 ITEM# 10 - WORKTABLE
1/2" = 1'-0"



4 SECTION @ ITEM# 5 - THREE COMPARTMENT SINK
3/4" = 1'-0"



5 SECTION @ ITEM# 8 - MOBILE WORKTABLE
3/4" = 1'-0"



6 SECTION @ ITEM# 10 - WORKTABLE
3/4" = 1'-0"

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Brook, IN 47922

KEY PLAN

N

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - BID PACKAGE 4

FOODSERVICE EQUIPMENT SCHEDULE

K200.4

K200.4_FOODSERVICE EQUIPMENT SCHEDULE
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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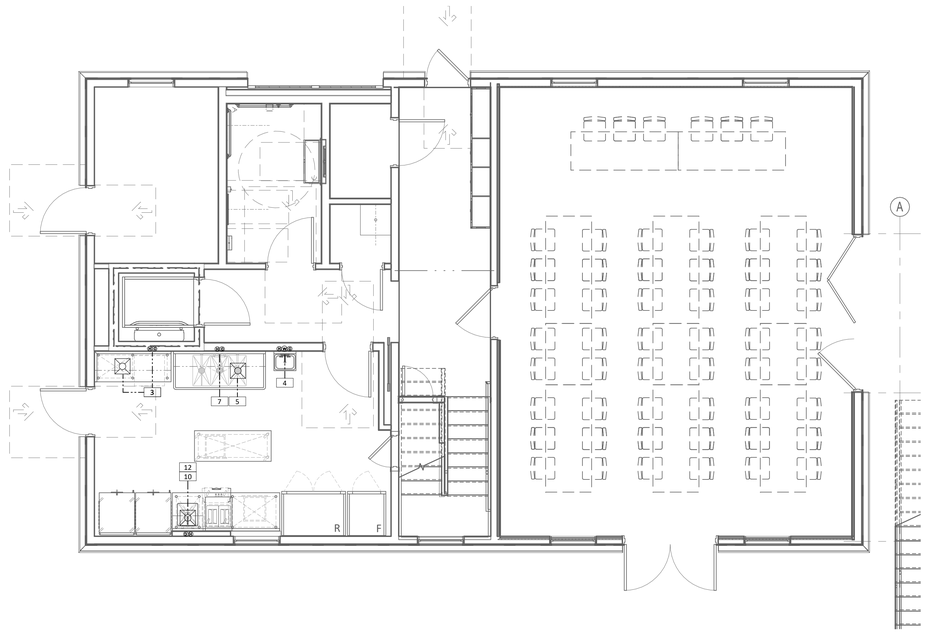
PLUMBING LEGEND

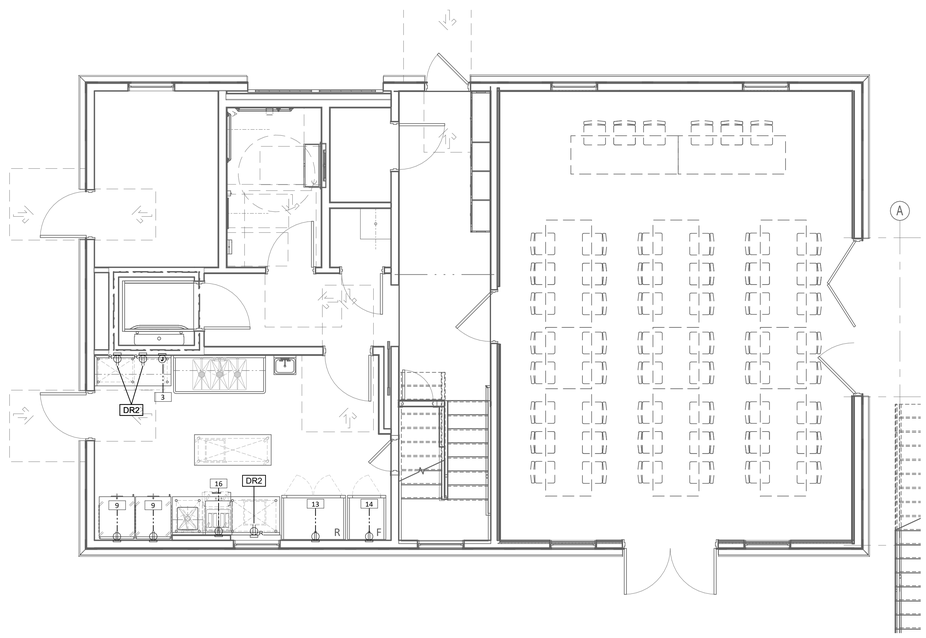
Ⓗ	SINGLE HOT WATER CONNECTION
Ⓒ	SINGLE COLD WATER CONNECTION
ⒽⒸ	HOT & COLD WATER CONNECTION
Ⓦ	DIRECT WASTE CONNECTION
◯	INDIRECT FLOOR DRAIN
⊠	INDIRECT 12"x12" FLOOR SINK
⊠	INDIRECT 12"x12" FLOOR SINK WITH HALF GRATE
Ⓖ	GAS CONNECTION
⬡	REFER TO SHEET K400 OR K500 FOR MORE INFORMATION ON THIS EQUIPMENT

PLUMBING NOTES

1. FOODSERVICE SPOT LOCATION SCHEDULES & DRAWINGS ARE FOR REFERENCE AND BIDDING PURPOSES, TO BE USED ONLY AS A GUIDE FOR FOOD SERVICE EQUIPMENT ELECTRICAL, PLUMBING & VENTILATION SPOT LOCATIONS AND ARE NOT APPROVED FOR USE ON THE JOBSITE FOR ROUGH-IN PURPOSES. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING HIS/HER OWN ROUGH-IN SCHEDULES & DRAWINGS SHOWING ACCURATE LOCATIONS FOR UTILITIES AND WORK TO BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE & LOCAL CODES.
2. ALL SPOT LOCATIONS SHOWN ON THESE DRAWINGS ARE SPECIFIC TO THE EQUIPMENT SHOWN ON THE FOODSERVICE EQUIPMENT PLAN. REFER TO ARCHITECTURAL & PLUMBING DRAWING SETS FOR ADDITIONAL PLUMBING REQUIREMENTS NOT SHOWN.
3. ALL FLOOR AREAS IN THE KITCHEN & SERVING SPACE SHALL BE "TRANSIT LEVEL". DO NOT SLOPE FLOOR TO FLOOR DRAINS OR FLOOR SINKS IN THIS AREA.
4. PLUMBING DIVISION TO INSTALL ALL FAUCET ASSEMBLIES, PRE-RINSE SPRAY ASSEMBLIES, HOSE ASSEMBLIES, VACUUM BREAKERS, CHECK VALVES, FLOW CONTROL VALVES, SOLENOID VALVES, WATER PRESSURE REDUCING VALVES, GAS PRESSURE REDUCING VALVES, TEMPERATURE GAUGES, PRESSURE GAUGES, WATER HAMMER SHOCK ABSORBERS & WATER FILTRATION SYSTEMS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR.
5. PLUMBING DIVISION TO FURNISH & INSTALL ALL WATER, GAS & STEAM SUPPLY LINES, DRAIN MANIFOLDS & TAILPIECES, TRAPS, SHUT-OFF VALVES, VENT PIPING, GAS SUPPLY LINE STRAINERS/FILTERS, BACK FLOW PREVENTION DEVICES, FLOOR DRAINS & FLOOR SINKS AS REQUIRED FOR EQUIPMENT INSTALLATION AND ANY CODE REQUIREMENTS. ALL SUPPLY LINES SERVICING EQUIPMENT ADJACENT TO AN EXTERIOR WALL ARE TO BE RAN ALONG INTERIOR FACE OF WALL TO AVOID POTENTIAL FREEZING.
6. PLUMBING DIVISION TO FURNISH & INSTALL STAINLESS STEEL OR CHROME PLATED BRASS ESCUTCHEONS OR FLANGES FOR UTILITY LINES WHICH EXTEND THROUGH BUILDING WALLS AND EQUIPMENT. ALL PENETRATIONS TO BE SEALED WATER-TIGHT AND VERMIN PROOF.
7. PLUMBING DIVISION TO FURNISH & INSTALL TYPE "L" COPPER TUBING DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS, (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT ETC.. MECHANICAL DIVISION TO INSTALL DRAIN LINES SO THEY DO NOT AFFECT UNDERCOUNTER STORAGE AND OTHER OPERATIONAL FUNCTIONS OF THE FIXTURES.
8. PLUMBING DIVISION TO FURNISH & INSTALL CHROME PLATED PIPING ON ALL EXPOSED PIPING ABOVE COUNTER HEIGHT OR IN "DIRECT" LINE OF SIGHT TO THE OWNER/OPERATOR.
9. PLUMBING DIVISION TO FURNISH & INSTALL ALL 12"x12"x8" FLOOR SINKS. FLOOR SINKS TO BE MOUNTED IN FLOOR SUCH THAT THE TOP OF THE RIM WILL BE FLUSH WITH FINISHED FLOOR ELEVATION UNLESS OTHERWISE DIRECTED BY STATE & LOCAL CODES. FLOOR SINKS FOR DISHMACHINES AND ALL COOKING EQUIPMENT TO HAVE A MINIMUM OF 3" DRAIN CONNECTION.
10. MECHANICAL DIVISION TO COOL, HEAT &/OR VENTILATE FOOD SERVICE DRY STORAGE ROOM TO MAINTAIN A TEMPERATURE OF 68 DEGREES TO 72 DEGREES YEAR AROUND.



1 FOODSERVICE PLUMBING LAYOUT
1/4" = 1'-0"



2 FOODSERVICE ELECTRICAL LAYOUT
1/4" = 1'-0"

ELECTRICAL LEGEND

	120 VOLT ELECTRICAL CONNECTION
R	DUPLEX CONVENIENCE RECEPTACLE
	208 VOLT ELECTRICAL CONNECTION
	120/208 VOLT ELECTRICAL CONNECTION
	480 VOLT ELECTRICAL CONNECTION
	120 VOLT ELECTRICAL CONNECTION - FIXTURE MOUNTED
	208 VOLT ELECTRICAL CONNECTION - FIXTURE MOUNTED
J	DIRECT CONNECTION ON WALL
J	DIRECT CONNECTION ON EQUIPMENT
	ELECTRICAL CONNECTION - STUB UP
	ELECTRICAL CONNECTION - DOWN FROM ABOVE
$	SWITCH
	DATA CONNECTION
	REFER TO SHEET K400 OR K500
	FLOOR DUPLEX RECEPTACLE OUTLET
	DATA OUTLET IN FLOOR

HEIGHTS USED IN DRAWINGS ARE FOR REFERENCE ONLY. USE HEIGHTS PER LOCAL CODE.

ELECTRICAL NOTES

1. FOODSERVICE SPOT LOCATION SCHEDULES & DRAWINGS ARE FOR REFERENCE AND BIDDING PURPOSES, TO BE USED ONLY AS A GUIDE FOR FOOD SERVICE EQUIPMENT ELECTRICAL, PLUMBING & VENTILATION SPOT LOCATIONS AND ARE NOT APPROVED FOR USE ON THE JOBSITE FOR ROUGH-IN PURPOSES. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING HIS/HER OWN ROUGH-IN SCHEDULES & DRAWINGS SHOWING ACCURATE LOCATIONS FOR UTILITIES AND WORK TO BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE & LOCAL CODES.
2. ALL SPOT LOCATIONS SHOWN ON THESE DRAWINGS ARE SPECIFIC TO THE EQUIPMENT SHOWN ON THE FOODSERVICE EQUIPMENT PLAN. REFER TO ARCHITECTURAL & ELECTRICAL DRAWING SETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT SHOWN.
3. ELECTRICAL AMPERAGE NOTED IN SCHEDULE INDICATES AMP "DRAW" & NOT CIRCUIT BREAKER SIZE UNLESS OTHERWISE NOTED. ELECTRICAL DIVISION IS RESPONSIBLE FOR PROPER CIRCUIT BREAKER SIZING
4. ELECTRICAL DIVISION TO VERIFY ALL FOODSERVICE EQUIPMENT WITH DIRECT ELECTRICAL CONNECTION TO BE IN LINE OF SIGHT OF KITCHEN ELECTRICAL DISTRIBUTION PANEL, AND IF NOT, ELECTRICAL DIVISION TO FURNISH & INSTALL A FUSED QUICK DISCONNECT ADJACENT TO EQUIPMENT.
5. ELECTRICAL DIVISION TO INSTALL ALL CONTROL PANELS, STARTERS, SOLENOID VALVES, JUNCTION BOXES & DISCONNECT SWITCHES FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR.
6. ELECTRICAL DIVISION TO FURNISH & INSTALL ALL WIRING, ELECTRICAL OUTLETS, STARTERS, JUNCTION BOXES, DISCONNECT SWITCHES & CONDUIT REQUIRED FOR EQUIPMENT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS & ELECTRICAL CODE REQUIREMENTS. ELECTRICAL RECEPTACLES TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
7. ELECTRICAL DIVISION TO FURNISH & INSTALL GROUNDING WIRE TO ALL FOOD SERVICE EQUIPMENT IN ADDITION TO THE NUMBER OF WIRES NOTED IN INDIVIDUAL SERVICES.
8. ELECTRICAL DIVISION TO FURNISH & INSTALL GROUND FAULT PROTECTION FOR ANY RECEPTACLE WITHIN THE KITCHEN & SERVING AREAS.
9. ELECTRICAL DIVISION TO FURNISH & INSTALL SHUNT TRIP BREAKERS FOR ALL ELECTRICAL SERVICE TO EQUIPMENT UNDER EXHAUST HOODS WHEN FIRE SUPPRESSION SYSTEM IS REQUIRED.
10. ELECTRICAL DIVISION TO FURNISH 6'-0" PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECTION STUB-OUTS AND EXTEND TO FINAL CONNECTION ON EQUIPMENT. ELECTRICAL DIVISION TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER AND SHORTEN ANY CORDS IF NECESSARY.

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SARAH KATHLEEN HUMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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#	Revision	Date

3705 IN- 16
Brook, IN 47922

KEY PLAN

N

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - BID PACKAGE 4

FOODSERVICE PLUMBING & ELECTRICAL LAYOUT

K300.4

K300_X_ FOODSERVICE PLUMBING & ELECTRICAL LAYOUT
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
AC	AIR CURTAIN
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
ARU	AIR ROTATION UNIT
AS	AIR SEPARATOR
APD	AIR PRESSURE DROP (IN WG)
B	BOILER
BBD	BOILER BLOW DOWN
BDD	BACKDRAFT DAMPER
BFC	BELOW FINISHED CEILING
BFW	BOILER FEED WATER
BFWP	BOILER FEED WATER PUMP
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPING
BSB	BRANCH SELECTOR BOX
BT	BUFFER TANK
BTUH	BRITISH THERMAL UNIT PER HOUR
C	COMMON
CD	CONDENSATE DRAIN
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHCF	CHILLED WATER CHEMICAL FEED
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CO	CLEANOUT
CONN	CONNECTION
CONV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CIRCULATION PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CSF	CHEMICAL SHOT FEEDER
CSP	CONDENSATE PUMP
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	HYDRONIC CABINET UNIT HEATER
CV	CONTROL VALVE
CWCF	CONDENSER WATER CHEMICAL FEED
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DC	DUCT COIL
DCR	DRY COOLER
DN	DOWN
EA	EXHAUST AIR DUCT
EAT	ENTERING AIR TEMPERATURE (°F)
EC	ELECTRICAL CONTRACTOR
EC	EGG CRATE
ECUH	ELECTRIC CABINET UNIT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EOM	END OF MAIN DRIP
EPUH	ELECTRIC PROPELLER UNIT HEATER
EQUIP	EQUIPMENT
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE (IN WG)
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE (°F)
EXP	EXPANSION
EX	EXISTING
F&T	FLOAT & THERMOSTATIC STEAM TRAP
FBP	FACE AND BYPASS DAMPER
FCU	FAN COIL UNIT
FD	FIRE DAMPER
F/SD	COMBINATION FIRE AND SMOKE DAMPER
FPB	FAN POWERED TERMINAL BOX
FPM	FEET PER MINUTE
FT	FOOT/FEET
FTR	FINNED TUBE RADIATION
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GFUH	GAS FIRED UNIT HEATER
GMU	GLYCOL MAKEUP UNIT
GPM	GALLONS PER MINUTE
H	HUMIDITY / HUMIDIFIER / HUMIDISTAT
HD	HEAD (FT, U.N.O.)
HHWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HORSEPOWER OR HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HYDRONIC WATER RETURN
HS	HYDRONIC WATER SUPPLY
HTR	HEATER
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HUV	HORIZONTAL UNIT VENTILATOR
HVLS	HIGH VOLUME LEW SPEED FANS
HX	HEAT EXCHANGER
HZ	FREQUENCY (MEGAHERTZ)
IB	INVERTED BUCKET STEAM TRAP
ID	INSIDE DIAMETER
IH	INTAKE HOOD / PENTHOUSE
IN	INCH / INCHES
INSUL	INSULAT(E), (ED), (ION)
INT	INTERIOR
IRH	INFRARED TUBE RADIANT HEATERS
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATT

ABBREVIATIONS

LAT	LEAVING AIR TEMPERATURE (°F)
LBS	POUNDS
LD	LINEAR SLOT DIFFUSER
LEC	LABORATORY EQUIPMENT CONTRACTOR
LP	LIQUID PETROLEUM
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LWT	LEAVING WATER TEMPERATURE (°F)
MAT	MIXED AIR TEMPERATURE (°F)
MAU	MAKEUP AIR UNIT
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MPS	MEDIUM PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE (°F)
OBD	OPPOSED BLADE DAMPER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
P	PUMP
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP (IN WG, U.N.O.)
PE	PNEUMATIC-ELECTRIC
PH	PHASE
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGE TERMINAL AIR CONDITIONING UNIT
PUH	HYDRONIC PROPELLER UNIT HEATER
R	THERMAL RESISTANCE
R-#	REFRIGERANT NUMBER
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE (°F)
RCP	RADIANT CEILING PANEL
RECIRC	RECIRCULATE(), (OR), (ING)
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RH	RELIEF HOOD / PENTHOUSE
RHC	REHEAT COIL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS/RL	PROPOSED REFRIGERANT PIPING ROUTING
RTU	PACKAGED ROOFTOP (OR ON GRADE) UNIT
RWP	RADIANT WALL PANEL
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAT	SUPPLY AIR TEMPERATURE (°F)
SD	SUPPLY DIFFUSER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FOOT
SG	SUPPLY GRILLE
SHR	SENSIBLE HEAT RATIO
SPEC	SPECIFICATIONS
SS	SPLIT SYSTEM (INDOOR UNIT)
ST	SOUND TRAP / DUCT ATTENUATOR
STD	STANDARD
TA	TRANSFER AIR
TB	TERMINAL BOX
TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TOA	TEMPERED OUTDOOR AIR
TSP	TOTAL STATIC PRESSURE (IN WG, U.N.O.)
TSTAT	THERMOSTAT
TYP.	TYPICAL
U	HEAT TRANSFER COEFFICIENT
VA	VOLT AMPERE
VAC	VOLTS AC
VAV	VARIABLE AIR VOLUME (TERMINAL BOX)
VD	VOLUME DAMPER
VDC	VOLTS DC
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VRF	VARIABLE REFRIGERANT FLOW
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WTR	WATER
ZN	ZONE

PIPING SYSTEMS

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAIN
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
R	PROPOSED REFRIGERANT ROUTING
HPSR	HIGH PRESSURE STEAM RETURN
HPSS	HIGH PRESSURE STEAM SUPPLY
LPSR	LOW PRESSURE STEAM RETURN
LPSS	LOW PRESSURE STEAM SUPPLY
MPSR	MEDIUM PRESSURE STEAM RETURN
MPSS	MEDIUM PRESSURE STEAM SUPPLY
CPD	STEAM CONDENSATE PUMP DISCHARGE
SV	STEAM VENT

GENERAL DUTY VALVES & FITTINGS

	RISE IN PIPING
	DROP IN PIPING
	CAPPED PIPE
	PIPE CONTINUED ON ANOTHER DRAWING
	CHECK VALVE
	PLUG VALVE
	PRESSURE REGULATING VALVE
	VALVE - SEE SPECIFICATIONS FOR VALVE TYPE
	BUTTERFLY VALVE
	RELIEF VALVE
	TRIPLE DUTY VALVE
	GATE VALVE
	BALL VALVE
	VALVE IN RISER
	ANGLE VALVE
	MANUAL BALANCING VALVE
	AUTOMATIC BALANCING VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	UNION
	THERMOMETER WELL
	THERMOMETER & WELL
	GAUGE CONNECTION(S) & WELL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PETE'S PLUG
	Y-STRAINER W/BLOWDOWN VALVE & CAP
	PIPE GUIDES
	PIPE ANCHORS
	FLEXIBLE PIPING CONNECTOR
	PIPE EXPANSION JOINT
F&T	STEAM TRAP W/DESIGNATION
	EXPANSION LOOP (SIZE INDICATED ON DRAWINGS)
	GAS COCK
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PRESSURE REDUCING VALVE

DRAWING NOTATIONS

1 DEMO 1 NEW	PLAN NOTE
3 / M-501	DETAIL REFERENCE
2 / M-301	SECTION REFERENCE
	NEW TO EXISTING
	DEMO TO THIS POINT
XXX-1	EQUIPMENT TAG - (SEE SCHEDULE SHEETS)
MARK SD24-12, 300 CFM	DIFFUSER, REGISTER, GRILLE TAG - (SEE SCHEDULE SHEETS)

NOTE:
ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE USED FOR THIS PROJECT

DUCTWORK SYSTEMS

EA	EXHAUST AIR
TOA	TEMPERED OUTDOOR AIR
KEA	KITCHEN EXHAUST AIR
OA	OUTSIDE AIR
RLA	RELIEF AIR
RA	RETURN AIR
SA	SUPPLY AIR
TA	TRANSFER AIR

DUCTWORK SYMBOLS

	DROP IN DUCTWORK (SUPPLY ONLY)
	DROP IN DUCTWORK (RETURN, ETC.)
	RISE IN DUCTWORK (SUPPLY ONLY)
	RISE IN DUCTWORK (RETURN, ETC.)
	DROP IN DUCTWORK (EXHAUST)
	RISE IN DUCTWORK (EXHAUST)
R D	OFFSET IN DUCTWORK (R = RISE D = DROP)
12"x8"	RECTANGULAR DUCTWORK
12"Ø	ROUND SPIRAL DUCTWORK
12"x8"Ø	OVAL DUCTWORK
	INSULATED FLEXIBLE DUCTWORK
	STANDARD RADIUS ELBOW, CENTER RADIUS 1-1/2 TIMES WIDTH OF DUCT
	90° ELBOW WITH TURNING VANES
	DUCT TRANSITION
	SHOETAP WITH SQUARE TO ROUND TRANSITION
	CONICAL FITTING
	90° TEE FITTING
	45° LATERAL FITTING
	BELLMOUTH FITTING
	SHOETAP (OR 45° ENTRY) FITTING
	MANUAL VOLUME DAMPER
BDD	BDD = BACKDRAFT DAMPER OBD = OPPOSED BLADE DAMPER PBD = PARALLEL BLADE DAMPER
SD	SD = SMOKE DAMPER
FSD	FSD = FIRE/SMOKE DAMPER
FD	FD-(A/B) = FIRE DAMPER (TYPE A OR TYPE B)
M	MOTORIZED DAMPER
AD	ACCESS DOOR
	INTERNALLY INSULATED DUCTWORK
AIR FLOW 20° 30°	DUCT-MOUNTED REHEAT COIL (HYDRONIC)

EQUIPMENT SYMBOLS

	LINEAR DIFFUSER W/TYPE AND CFM (TWO-WAY SIDE TYPE)
	SUPPLY DIFFUSER W/TYPE AND CFM (FOUR-WAY TYPE)
	SUPPLY DIFFUSER W/TYPE AND CFM (THREE-WAY TYPE)
	SUPPLY DIFFUSER W/TYPE AND CFM (TWO-WAY SIDE TYPE)
	SUPPLY DIFFUSER W/TYPE AND CFM (ONE-WAY SIDE TYPE)
	RETURN GRILLE W/ TYPE AND CFM
	EXHAUST GRILLE W/ TYPE AND CFM
ON ROOF	ROOF-MOUNTED EXHAUST FAN
CO2	CARBON DIOXIDE SENSOR
H	HUMIDITY SENSOR
T	THERMOSTAT

GENERAL NOTES

1. THESE GENERAL NOTES APPLY TO M-SERIES DRAWINGS. ADDITIONAL GENERAL NOTES SPECIFIC TO A PARTICULAR DRAWING ARE NOTED ON THOSE SHEETS.
2. IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE MECHANICAL SYSTEMS THAT ARE FULLY FUNCTIONAL. PROVIDE ALL ITEMS SPECIFIED AND REQUIRED FOR COMPLETE OPERATIONAL SYSTEMS.
3. ON MECHANICAL "M" SERIES DRAWINGS, DARK LINE ITEMS INDICATE NEW WORK. LIGHT LINE ITEMS ARE ITEMS THAT SHALL REMAIN.
4. THESE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION FOR PIPING, DUCTWORK, CONDUIT, ETC. THE EQUIPMENT SHOWN ILLUSTRATES SUGGESTED ROUTING, BUT ALL NECESSARY OFFSETS MAY NOT BE SHOWN. DIVISION 23 SHALL INSTALL HIS WORK IN A MANNER THAT WILL CONFORM WITH THE STRUCTURE. DIVISION 23 SHALL AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND MAINTAIN MAXIMUM CLEARANCE WITHOUT FURTHER INSTRUCTION FROM THE ARCHITECT/ENGINEER OR ADDITIONAL COST TO THE OWNER.
5. ALL DUCTWORK, PIPING, AND VALVES SHALL BE CONCEALED ABOVE CEILING AND WITHIN WALLS IN FINISHED AREAS UNLESS OTHERWISE INDICATED.
6. ALL VALVES, ETC. SHALL BE INSTALLED ALLOWING EASY ACCESS BETWEEN LIGHT FIXTURES AND NO HIGHER THAN 12" TO 24" ABOVE THE CEILING. PROVIDE FITTINGS IN DUCTWORK AND PIPING AS REQUIRED SO THAT NO PIPING REMAINS TIGHT TO ROOF STRUCTURE. PROVIDE ACCESS PANELS AS REQUIRED. AREA ADJACENT TO THE ACCESS PANELS SHALL BE CLEAR OF ANY OBSTRUCTIONS. PROVIDE EXTENDED VALVE HANDLES FOR INSULATED PIPING.
7. DIVISION 23 SHALL BE GUIDED BY THE ARCHITECT/ENGINEER'S REFLECTED CEILING PLAN FOR LOCATION OF DIFFUSERS, REGISTERS, GRILLES SHOWN OR COVERED BY THESE PLANS. RETURN GRILLES SHALL NOT ALIGN WITH SUPPLY AIR THROW.
8. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL GRILLES, REGISTERS AND DIFFUSERS IN CEILINGS WITH THE CEILING SYSTEM AND LIGHT FIXTURES. PROVIDE FLEXIBLE DUCT UPSTREAM OF EACH DIFFUSER WHERE SHOWN.
9. ARROWS ON THE HOT WATER COLD WATER MAINS INDICATE THE DIRECTION OF FLOW. PITCH MAINS UPWARD A MINIMUM OF 1" PER 60' IN THE DIRECTION OF FLOW. ARROWS ON STEAM AND CONDENSATE PIPING AND DRAIN LINE INDICATE THE DOWNWARD PITCH OF THE PIPING.
10. INSTALL AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS OF WATER PIPING SYSTEMS. DRAINS TO HAVE HOSE END THREADS WITH CLEARANCE TO ATTACH HOSE.
11. PIPING BRANCHES TO EQUIPMENT SHALL HAVE SAME SIZE VALVES AND FITTINGS AS THAT OF THE LINE SIZE WITH THE EXCEPTION OF THE TEMPERATURE CONTROL VALVES.
12. PIPE "SWING" CONNECTIONS WITH UNIONS OR FLANGES SHALL BE MADE EXTERNAL TO COILS OR A TUBE BUNDLE TO FACILITATE REMOVAL OF THAT ITEM WITHOUT DISTURBING THE BRANCH VALVES AND/OR PIPING.
13. DUCT AND PIPING PENETRATING FLOOR SLABS AND/OR WALLS SHALL BE SEALED WITH ACOUSTIC SEALANT. IF THE FLOOR OR WALL IS FIRE RATED PROVIDE THE FIRE STOPPING OR FIRE DAMPER TO MAINTAIN THE FIRE RATING.
14. ALL RECTANGULAR SHEET METAL DUCT SIZES ARE INSIDE DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS. ALLOWANCE FOR ACOUSTICAL LINER WHERE INDICATED ON DRAWINGS MUST BE ADDED TO OBTAIN OUTSIDE SHEET METAL DIMENSION.
15. ALL WALL THERMOSTATS, TEMPERATURE SENSORS, AND/OR HUMIDISTATS SHALL BE APPROXIMATELY 46" ABOVE FINISHED FLOOR TO CENTER AND LINED UP HORIZONTALLY WITH LIGHT SWITCHES UNLESS OTHERWISE NOTED OR DIRECTED BY THE ARCHITECT/ENGINEER.
16. DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT. CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS FOR CUTTING AND PATCHING REQUIRED TO INSTALL NEW OR REMOVE EXISTING WORK, EQUIPMENT, OR SYSTEMS.
17. DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL OF HIS WORK TO BE INSTALLED WITH ANY AND ALL OTHER CONTRACTORS TO BE AFFECTED BY SUCH WORK, PRIOR TO ORDERING ANY OF THE EQUIPMENT. THIS SHALL INCLUDE BUT NOT LIMITED TO ELECTRICAL CHARACTERISTICS, CONNECTIONS REQUIRED, PHYSICAL SIZE, COLOR AND FIT. ALSO REFER TO SPECIFICATIONS.
18. ALL EQUIPMENT SHALL BE OF, AND CONSIST OF, AT LEAST MINIMUM SIZES SELECTED, AND SHALL PERFORM TO OR SURPASS THE MINIMUM REQUIREMENTS, SCHEDULES, NOTED AND SPECIFIED.
19. COORDINATE INSTALLATION OF NEW WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED FOR A COMPLETE AND OPERABLE HVAC SYSTEM. CLEARANCES ABOVE CEILINGS ARE EXTREMELY TIGHT IN CERTAIN AREAS. RELOCATE PIPING, ELECTRIC CONDUIT, STRUCTURAL BRACING, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION OF HVAC WORK. COORDINATE ROUTING OF NEW DUCTWORK ABOVE CEILINGS WITH EXISTING ELECTRIC CABLE TRAY. M.C. TO COORDINATE ALL DUCTWORK ROUTING AND DUCTWORK ELEVATIONS WITH STRUCTURAL STEEL SUPPORTS FOR FOLDING WALLS. REFERENCE STRUCTURAL DRAWINGS FOR SIZE AND LOCATIONS OF STEEL. FIELD VERIFY ALL EXISTING CONDITIONS.
20. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL VAV REHEAT BOXES AND DUCTWORK WITH THE CEILING SYSTEM AND LIGHT FIXTURES. FIELD VERIFY EXISTING CEILING SYSTEMS AND LOCATION OF EXISTING LIGHT FIXTURES. ALLOW REQUIRED CLEARANCES FOR SERVICE TO BOX AND CONTROLS.
21. CONTRACTOR SHALL RELOCATE EXISTING LIGHT FIXTURE AND CEILING GRID SUPPORT HANGERS AS REQUIRED FOR INSTALLATION OF NEW VAV REHEAT BOXES, DUCTWORK, AND PIPING.
22. PROVIDE VOLUME DAMPERS IN ALL SUPPLY AIR BRANCH DUCTWORK AS REQUIRED TO BALANCE EACH SYSTEM. ALL VOLUME DAMPERS LOCATED ABOVE DRYWALL CEILINGS SHALL BE CABLE OPERATED WITH REMOTE REGULATOR LIKE YOUNG REGULATOR. FIELD VERIFY EXISTING CEILINGS FOR DRYWALL CEILINGS. COORDINATE LOCATION OF ALL DAMPERS WITH AIR BALANCE CONTRACTOR. IN HARD CEILINGS PROVIDE VOLUME DAMPER BEHIND THE GRILLE, REGISTER, OR DIFFUSER.
23. PROVIDE 45°/90° FITTING WITH VOLUME DAMPER LIKE FLEXMASTER MODEL STO AT ALL SUPPLY AIR AND PRIMARY AIR BRANCH DUCTWORK TAKEOFFS.
24. CONTRACTOR SHALL REVIEW RETURN AIR PATH BACK TO ALL HVAC EQUIPMENT. PROVIDE RETURN AIR OPENINGS AND/OR JUMPER DUCTS IN WALLS ABOVE THE CEILING WHERE REQUIRED. COORDINATE WITH GENERAL TRADES. VELOCITY THRU R.A. OPENINGS SHALL NOT EXCEED 500 FPM. FIELD VERIFY LOCATION OF EXISTING WALLS EXTENDING TO DECK.
25. ALL TRANSFER AIR DUCTS TO BE INTERNALLY INSULATED TO DETER NOISE TRANSFER. SIZE SHOWN ON PLANS INDICATES ACTUAL FREE AREA.
26. ROUND DUCT SIZE TO BE THE SAME SIZE AS THE DIFFUSER NECK; UNLESS OTHERWISE NOTED. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK CONNECTED TO A DIFFUSER SHALL BE 5'-0".
27. ALL DUCTWORK CONSTRUCTION SHALL BE FABRICATED SHEET METAL & BUILT IN ACCORDANCE WITH "SMACNA" STANDARDS.
28. ALL SUPPLY, RETURN, RELIEF/EXHAUST, AND OUTDOOR AIR DUCTWORK SHALL BE EXTERNALLY INSULATED. SEE SPECIFICATION FOR ADDITIONAL INSULATION REQUIREMENTS.
29. ALL ROUND DUCT TO BE EXTERNALLY INSULATED UNLESS NOTED OTHERWISE. SIZE SHOWN INDICATES ACTUAL DUCT FREE AREA. SEE SPECIFICATION FOR ADDITIONAL INSULATION REQUIREMENTS.
30. ALL ROOF PENETRATIONS TO BE SEALED WATER TIGHT. PACK VOID BETWEEN DUCT PENETRATING ROOF AND STRUCTURE WITH FIBERGLASS INSULATION AND CAULK WATER TIGHT. FOR HIGH TEMPERATURE OR GREASE DUCTS UTILIZE MINERAL WOOL.
31. TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING COMPLETE FOR THIS PROJECT. ALL WIRING (AND INTERLOCK WIRING) TO THERMOSTATS, SPACE SENSORS, HUMIDISTATS, CARBON DIOXIDE MONITORS, ETC. ARE TO BE CONCEALED WITHIN THE WALL.
32. ALL HARD 90° ELBOWS IN SUPPLY DUCTWORK ARE TO HAVE TURNING VANES PER SPECIFICATION AIR DUCT ACCESSORIES.
33. REMOVE ALL WORK MADE OBSOLETE BY NEW CONSTRUCTION.
34. DEMOLITION OF EXISTING MECHANICAL EQUIPMENT TO INCLUDE ASSOCIATED PIPING AND DUCTWORK NECESSARY FOR NEW EQUIPMENT INSTALLATION.
35. ALL EXISTING TO REMAIN AND NEW PVC PLUMBING VENT LINES LOCATED ABOVE CEILING IN RETURN PLENUM ARE TO BE EXTERNALLY WRAPPED WITH FLAME AND SMOKE SPREAD RATED INSULATION MATERIAL AS REQUIRED.
36. REFERENCE SECTION DIVISION 01 "SUMMARY" (MULTIPLE CONTRACT SUMMARY) FOR CONSTRUCTION PHASING.
37. CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS, INCLUDING THE WORK OF OTHER CONTRACTORS PRIOR TO SUBMITTING A BID PROPOSAL.
38. ALL EXHAUST FANS, RELIEF VENTS, FLUES, AND PLUMBING VENTS TO BE INSTALLED A MINIMUM OF 10 FT. FROM OUTDOOR AIR INTAKES.
39. CONTRACTOR SHALL CLEAN ALL OF HIS WORK INSIDE AND OUT. AIR DISTRIBUTION SYSTEMS SHALL HAVE ALL DIRT AND FOREIGN MATERIAL REMOVED FROM INSIDE AND OUTSIDE OF DUCTS, PLENUMS, HOUSINGS, DEVICES, TERMINALS, ETC. AS INSTALLATION PROGRESSES. PROTECT OPEN ENDS OF DUCTWORK AND INLETS AND OUTLETS OF EQUIPMENT AND DEVICES DURING CONSTRUCTION. CLEAN ALL ACCESSIBLE PARTS OF DUCTWORK AND AIR PASSAGES IN EQUIPMENT BEFORE FILTERS ARE INSTALLED OR REPLACED FOR SYSTEM BALANCING.
40. FURNISH AND INSTALL ACCEPTABLE CONCRETE INSERTS, ANCHORS, CLAMPS, BRACKETS, HANGERS, STRUCTURAL MEMBERS (ANGLES, CHANNELS, ETC.) AND FRAMES, ETC., REQUIRED FOR SUPPORTING ALL RESPECTIVE WORK. SUPPORTING DEVICES, ASSEMBLIES AND ATTACHMENTS SHALL BE DESIGNED AND ARRANGED TO CARRY THE WEIGHT OF THE SUPPORTED ITEMS INCLUDING HANGER AND CONTENTS WITHOUT TRANSMITTING VIBRATION OR NOISE TO THE BUILDING CONSTRUCTION. DESIGNED, APPROPRIATE AND APPROVED FOR THE PURPOSE USED; HAVE A NEAT AND FINISHED APPEARANCE AND COMPLEMENT THE INSTALLATION; HAVE CORROSION PROTECTION SUITABLE FOR THE ATMOSPHERE WHERE INSTALLED; ADEQUATELY AND SAFELY ATTACHED TO THE BUILDING STRUCTURE OR STRUCTURAL MEMBERS. EXPOSED SUPPORTS SHALL BE PAINTED UNLESS OF NON-FERROUS MATERIAL OR PROVIDED WITH PLATED (RUSTPROOF) FINISH.
41. PROVIDE NEC CLEARANCES AND SERVICE CLEARANCES FOR EQUIPMENT. COORDINATE EQUIPMENT SERVICE ACCESS. CLEARANCES INDICATED ARE BASED UPON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY PIPING, DUCTWORK, ETC., ROUTING PRIOR TO SUBMITTING A BID PROPOSAL AND INCLUDE ANY SUCH COSTS AS REQUIRED TO INSTALL WORK AS SHOWN AND INTENDED.
42. EXISTING VALVES MADE INACCESSIBLE BY NEW DUCT AND/OR PIPING SHALL BE RELOCATED AS REQUIRED FOR ACCESS.
43. DURING REMOVAL OF ITEMS, CAUTION SHALL BE USED TO PREVENT DAMAGE TO ANY EQUIPMENT HAVING SALVAGE VALUE. ALL REUSABLE SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND BE RETAINED FOR HIS INSPECTION. ONLY ITEMS SO INSPECTED AND REJECTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. ALL OTHER ITEMS SHALL BE TURNED OVER AND DEPOSITED AS DIRECTED BY THE OWNER.
44. CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND BOTH ARE MEANT TO BE COMPLEMENTARY - ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
45. VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING PIPING AND DUCTWORK PRIOR TO CONSTRUCTION OR BIDDING.
46. ALL DUCTWORK LOCATED IN ATTIC TO BE EXTERNALLY WRAPPED WITH MINIMUM OF 3" THICK INSULATION.

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Project No. 2021-036.GAH
Project Date 01.08.26
Produced TJK

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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#	Revision	Date

3705 IN SR 16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

MECHANICAL SYMBOLS AND ABBREVIATIONS

M-001.4

M-001.4_MECHANICAL SYMBOLS AND ABBREVIATIONS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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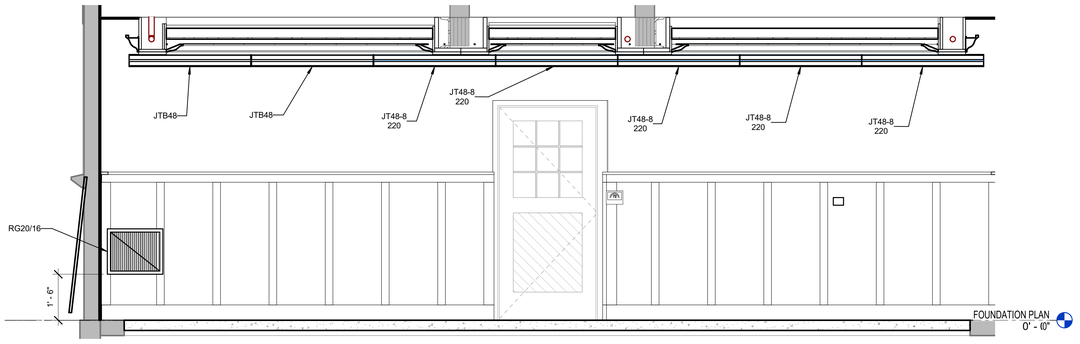
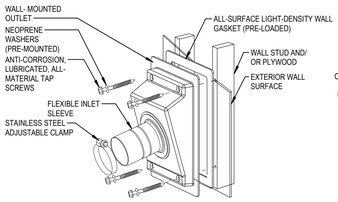
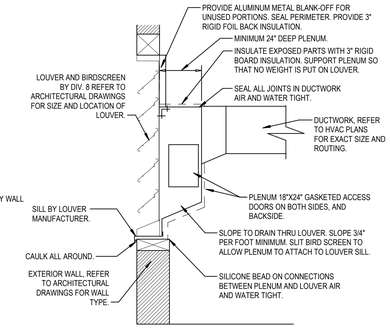
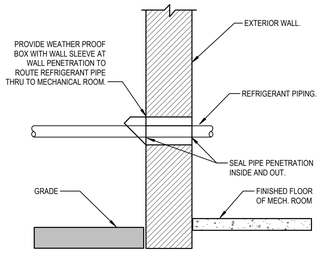


3D CONTINUOUS DIFFUSER SECTION
NOT TO SCALE





1E LOUVER CONNECTION DETAIL
NOT TO SCALE



2D EXTERIOR REFRIGERANT PIPING DETAIL
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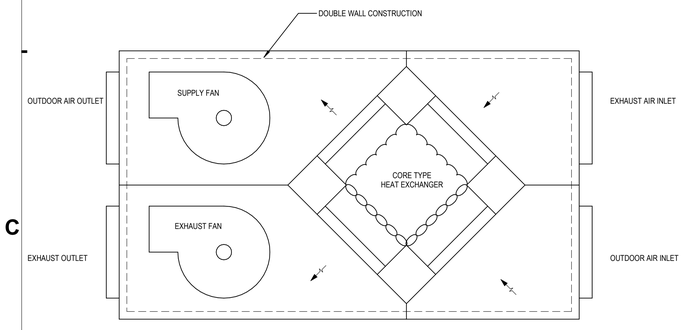

5C ENERGY RECOVERY UNIT DIAGRAM
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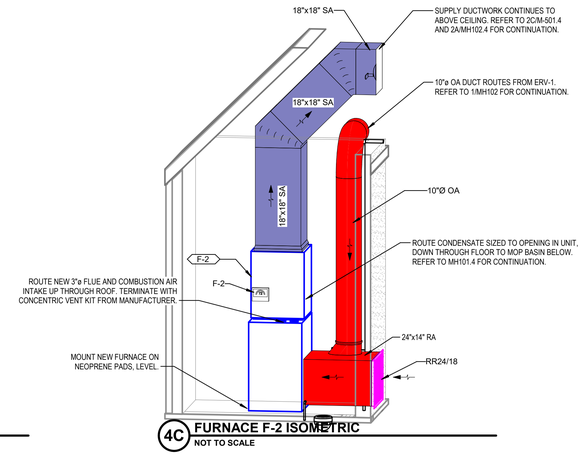
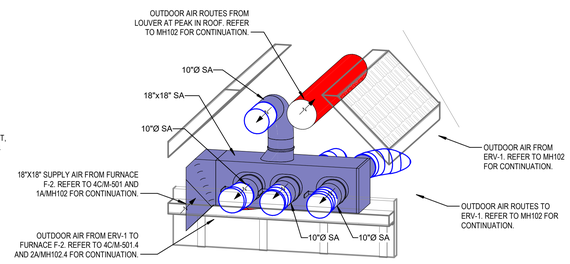


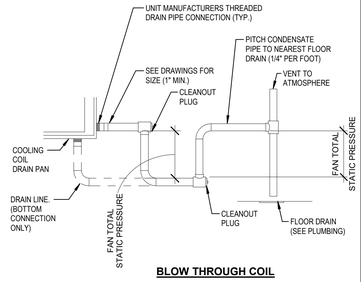
4C FURNACE F-2 ISOMETRIC
NOT TO SCALE



2C SUPPLY AIR DUCTWORK AT FURNACE F-2
NOT TO SCALE

NOTES:

1. REFER TO MECHANICAL SCHEDULES FOR FAN TOTAL STATIC PRESSURE DATA.
2. REFER TO SPECIFICATIONS FOR CONDENSATE DRAIN PIPING MATERIAL TYPE.
3. CONDENSATE DRAIN SHALL BE INSULATE.
4. COORDINATE HOUSEKEEPING PAD AND AIR HANDLING UNIT BASERAIL HEIGHTS TO ALLOW CONDENSATE DRAIN INSTALLATION PER THIS DETAIL WITHOUT THE NEED TO CORE FLOOR.



BLOW THROUGH COIL

1C CONDENSATE DRAIN PIPING DETAIL
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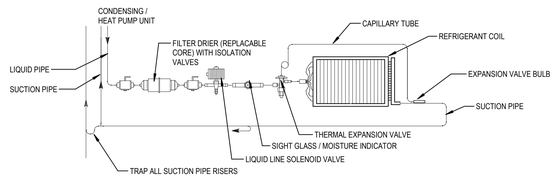
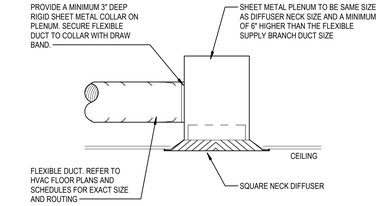


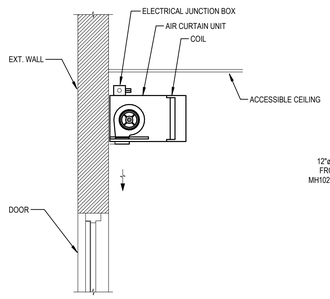
NOTES:

1. REFRIGERANT PIPING AND SPECIALTIES SHALL BE SIZED PER CONDENSING UNIT MANUFACTURERS RECOMMENDATIONS.
2. EXPANSION VALVE BULB TO BE MOUNTED AT THREE (3) 0'CLOCK POSITION.
3. ALL REFRIGERANT PIPING SHALL BE CONTINUOUSLY PURGED WITH NITROGEN DURING BRAZING PROCESS.
4. ALL ELBOWS TO BE LONG RADIUS TYPE.
5. SLOPE SUCTION PIPES 1/2" PER 10'-0" IN DIRECTION OF FLOW.

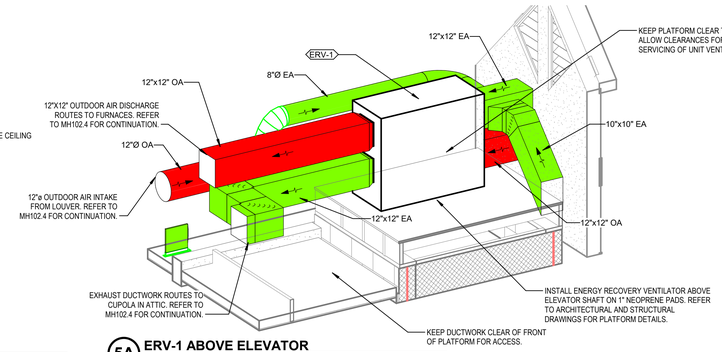
3B REFRIGERANT COIL PIPING DETAIL
NOT TO SCALE



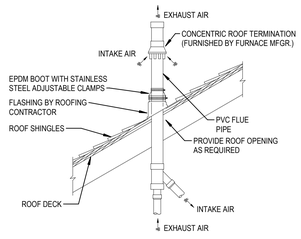
1B GRILLE/DIFFUSER PLENUM CONNECTION DETAIL
NOT TO SCALE



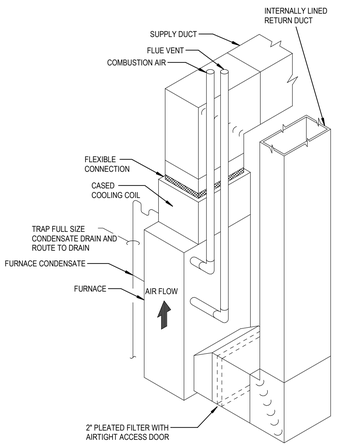
6A AIR CURTAIN DETAIL
NOT TO SCALE



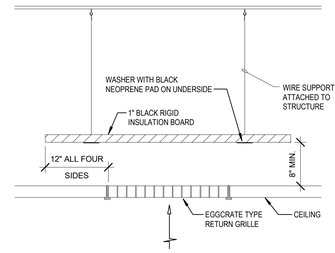
5A ERV-1 ABOVE ELEVATOR
NOT TO SCALE



14 FURNACE INTAKE AND EXHAUST AIR VENTING
NOT TO SCALE



2A UP FLOW FURNACE DETAIL
NOT TO SCALE



1A OPEN PLENUM RETURN GRILLE DETAIL
NOT TO SCALE

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3705 IN SR 16
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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

MECHANICAL DETAILS

M-501.4

M501 4_MECHANICAL DETAILS
2021036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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GAS-FIRED, DX FURNACE SCHEDULE - 23 84 16.13

IDENTITY DATA						UNIT SIZE			SUPPLY FAN						GAS HEATING DATA						DX COOLING DATA							ELECTRICAL DATA				
MARK	MANUFACTURER	MODEL	LOCATION	AREA SERVED	WEIGHT (LBS)	L	W	H	AIRFLOW (CFM)	ESP (IN-WG)	DRIVE	HP	MIN OUTSIDE AIR (CFM)	FILTER	INPUT (BTUH)	OUTPUT (BTUH)	AFUE	STAGES	EDB (°F)	LDB (°F)	TOTAL (BTUH)	SENSIBLE (BTUH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	REF.	APD (IN-WG)	VOLTS (V)	PH	FREQ (HZ)	MCA (A)	MOCP (A)	NOTES
F-1	CARRIER	59TP7 080V21	MECHANICAL 107	1ST FLOOR	231	26.5"	21"	35"+25"	1,680	1.0	ECM	1.0	350	MERV 8	80,000	76,880	96	2	60	95	48,000	36,100	80.0	67.0	55.0	54.5	R-454B	0.3	115	1	60	13.1	20	1-3
F-2	CARRIER	59TP7 100V21	STORAGE 202	2ND FLOOR	250	26.5"	21"	35"+30"	1,900	1.0	ECM	1.0	400	MERV 8	100,000	95,000	95	2	60	95	60,000	44,100	80.0	67.0	55.0	54.5	R-454B	0.3	115	1	60	13.2	20	1-3

FURNACE SCHEDULE NOTES:

1. DISCONNECT BY MANUFACTURER.
2. FACTORY PAIRED COOLING COIL. COORDINATE WIDTH OF COOLING COIL AND WIDTH OF FURNACE.
3. FACTORY PAIR CONDENSING UNIT WITH COOLING COIL. REFER TO PERFORMANCE OF COOLING COIL IN THIS SCHEDULE.

AIR COOLED CONDENSING UNIT SCHEDULE - 23 62 00.99

IDENTITY DATA							COOLING DATA				CONDENSER	ELECTRICAL DATA					
MARK	MANUFACTURER	MODEL	SYSTEM SERVED	WEIGHT (LBS)	REF. TYPE	NOMINAL (TONS)	TOTAL (BTUH)	STAGES	MIN SEER	AMB. DB (°F)	VOLTS (V)	FREQ. (HZ)	PH	MCA (A)	MOCP (A)	NOTES
CU-1	CARRIER	26SPA648	F-1	202	R-454B	4.0	48	1	16.0	95	230	60	1	29.1	50	1-5
CU-2	CARRIER	26SPA660	F-2	221	R-454B	5.0	60	1	16.0	95	230	60	1	31.1	50	1-5

AIR COOLED CONDENSING UNIT SCHEDULE NOTES

1. DISCONNECT BY MANUFACTURER. SINGLE POINT POWER.
2. SEE M-700 SERIES SHEETS FOR TEMPERATURE CONTROLS INFORMATION.
3. MECHANICAL CONTRACTOR SHALL COORDINATE REFRIGERANT PIPE SIZING AND PIPE ROUTING WITH MANUFACTURER.
4. PROVIDE ALL ACCESSORIES REQUIRED FOR LOW AMBIENT COOLING (BELOW 55°F), INCLUDING BUT NOT LIMITED TO: CRANCKCASE HEATER, EVAPORATOR FREEZE THERMOSTAT, HARD SHUT-OFF TXV, LOW-AMBIENT PRESSURE SWITCH, WINTER START CONTROL, START ASSIST CAPACITOR AND RELAY.
5. COORDINATE UNIT SUPPORT AND HEIGHT REQUIREMENTS WITH PLANS.

ENERGY RECOVERY VENTILATOR SCHEDULE - 23 72 00

IDENTITY DATA					SUPPLY FAN DATA					MOTOR		EXHAUST FAN DATA					MOTOR		ENERGY RECOVERY DATA									SINGLE-POINT POWER CONNECTION				
							FILTER SP							FILTER SP					SUMMER				WINTER									
MARK	MANUFACTURER	MODEL	LOCATION	WEIGHT (LBS)	AIRFLOW (CFM)	HX SP (IN-WG)	(IN-WG)	ESP (IN-WG)	TSP (IN-WG)	QTY	HP EACH	AIRFLOW (CFM)	HX SP (IN-WG)	(IN-WG)	ESP (IN-WG)	TSP (IN-WG)	QTY	HP EACH	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	HEAT RECOVERED...	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	HEAT RECOVERED...	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	NOTES
ERV-1	GREENHECK	ECV-10L-VG-P	ATTIC	377	750	0.07	0.05	0.50	0.61	1.0	0.5	700	0.06	0.05	0.50	0.6	1.0	0.5	83.0	77.0	77.8	70.4	21,262	-0.5	-2.0	46.3	37.5	38,224	120	1	14.4	20	1-3

ENERGY RECOVERY VENTILATOR SCHEDULE NOTES:

1. DOUBLE WALL CONSTRUCTION FOR MOUNTING IN ATTIC.
2. FACTORY PROVIDED TIMED OUTDOOR AIR AND EXHAUST FOR FROST PREVENTION.
3. FACTORY PROVIDED MICROPROCESSOR CONTROLLER. CONTROLLER TO HAVE CO2 SENSOR SEQUENCE TO ACTIVATE UNIT EITHER UPON SENSING CO2 GREATER THAN 1000 PPM, OR WITH MANUAL OVERRIDE SWITCH.

233713 DIFFUSERS, REGISTERS, AND GRILLES

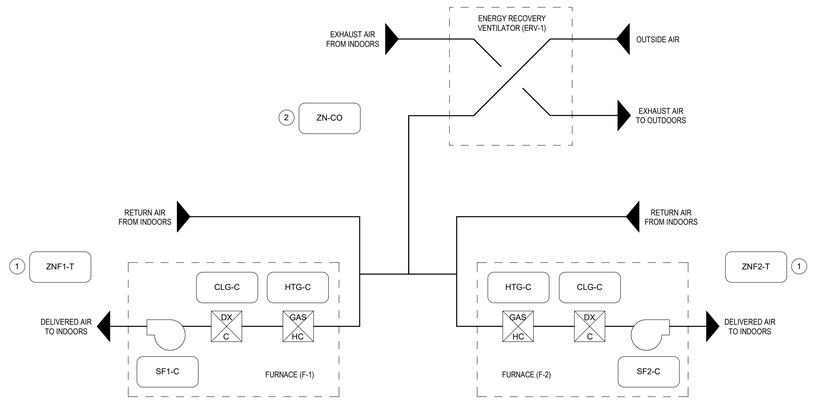
IDENTITY DATA				NECK SIZE (IN)	MODULE SIZE			
MARK	DESCRIPTION	MANUFACTURER	MODEL	Ø	W	L	MATERIAL	NOTES
JTB48	JET-THROW SLOT DIFFUSER WITH BLANK-OFF.	PRICE	JSB	0"	4"	48"	STEEL	
JT48-8	JET-THROW SLOT DIFFUSER WITH INTERNALLY INSULATED PLENUM BOX.	PRICE	JS	8"	4"	48"	STEEL	
ER6/6	SINGLE-DEFLECTION EXHAUST GRILLE	PRICE	530		6"	6"	STEEL	
EG8/8	SINGLE-DEFLECTION EXHAUST GRILLE	PRICE	530		8"	8"	STEEL	
EG10/10	SINGLE-DEFLECTION EXHAUST GRILLE	PRICE	530		10"	10"	STEEL	
RG18/10	SINGLE-DEFLECTION RETURN GRILLE	PRICE	530		18"	10"	STEEL	
RG20/16	SINGLE-DEFLECTION RETURN GRILLE	PRICE	530		20"	16"	STEEL	
RR24/18	SINGLE-DEFLECTION RETURN GRILLE	PRICE	530		24"	18"	STEEL	
RG24/24	SINGLE-DEFLECTION RETURN GRILLE	PRICE	530		24"	24"	STEEL	
SG10/6	DOUBLE-DEFLECTION SUPPLY REGISTER	PRICE	520D	0"	10"	6"	STEEL	
SR10/10	DOUBLE-DEFLECTION SUPPLY REGISTER	PRICE	520D	0"	10"	10"		
SR12/12	DOUBLE-DEFLECTION SUPPLY REGISTER	PRICE	520D	0"	12"	12"	STEEL	

AIR CURTAIN SCHEDULE - 23 34 33

IDENTITY DATA				FAN DATA		MOTOR DATA			ELECTRICAL DATA					
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	AIRFLOW (CFM)	NOZZLE WIDTH (IN)	QTY.	HP EACH	TYPE	VOLTS (V)	PH	FREQ (HZ)	FLA (A)	MOCP (A)	NOTES
AC-1	BERNER	AC08-F1036A	43	989	36"	1	1/5	ECM	120	1	60	4.4	15	1-6

AIR CURTAIN SCHEDULE NOTES

1. MANUFACTURER-INSTALLED TOGGLE DISCONNECT.
2. SEE AIR CURTAIN INSTALLATION AND PIPING DETAIL 6A/M-501.4.
3. ELECTRICAL CONNECTION TO BE FLEXIBLE.
4. STANDARD WHITE COLOR.
5. TWO SETS OF WASHABLE FILTERS BY MANUFACTURER.
6. DOOR SWITCH MAGNETIC REED. UNIT IS INTERLOCKED WITH DOOR POSITION SWITCH. COORDINATE WITH DOOR FRAME, SEE ARCHITECTURE SHEETS.



SCHEMATIC NOTES:

1. CONTRACTOR TO PROVIDE HONEYWELL T9 THERMOSTAT (OR APPROVED EQUAL).
2. CONTRACTOR TO INSTALL MANUFACTURER-FURNISHED CARBON DIOXIDE CONCENTRATION SENSOR.

HVAC SYSTEM SEQUENCE OF OPERATION:

THE TEMPERATURE CONTROLS FOR THIS SYSTEM SHALL BE A HONEYWELL T9 (OR APPROVED EQUAL) SMART WIFI THERMOSTAT PROVIDED SEPARATE FROM THE EQUIPMENT BY THE MECHANICAL CONTRACTOR. THE THERMOSTAT SHALL SHALL BE WIRED TO THE FURNACE USING STANDARD TERMINALS AND THE MECHANICAL CONTRACTOR SHALL CONFIGURE THE THERMOSTAT WIFI PARAMETERS FOR BUILDING NETWORK CONNECTIVITY AFTER COORDINATION WITH THE OWNER. THE CONTRACTOR SHALL CONFIGURE ADJUSTABLE OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINTS. OCCUPIED SETPOINTS SHALL BE 70F IN HEATING AND 75F IN COOLING. UNOCCUPIED SETPOINTS SHALL BE 64F IN HEATING AND 80F IN COOLING. ALL SETPOINTS SHALL BE ADJUSTABLE LOCALLY WITH PASSWORD PROTECTION THROUGH THE WEB INTERFACE CONFIGURED BY THE CONTRACTOR.

SUPPLY FAN START/STOP: THE SUPPLY FAN (SF-C) WILL BE STARTED ACCORDING TO THE SCHEDULE OR MANUALLY AS SELECTED BY THE OPERATOR. MINIMUM RUN TIME SHALL BE THIRTY (30) MINUTES (ADJ).

SPACE TEMPERATURE CONTROL: THE GAS HEATING (HTG-C) AND THE DX COOLING (CLG-C) WILL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

ERV-1 OPERATION: ERV-1 SHALL BE ENABLED MANUALLY AS SELECTED BY THE OPERATOR OR WHEN SPACE CO2 CONCENTRATION (ZN-CO2) RISES ABOVE 1000 PPM. WHEN ERV-1 IS ENABLED, F-1 (SF1-C) AND F-2 (SF2-C) SHALL ALSO BE ENABLED.

1A AIR SYSTEM CONTROLS DIAGRAM
NOT TO SCALE

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Project No. 2021-036.GAH
Project Date 01.08.26
Produced TJK

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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#	Revision	Date

3705 IN SR 16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

MECHANICAL SCHEDULES

M-601.4

M601.4_MECHANICAL SCHEDULES
2021036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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GENERAL DEMOLITION NOTES

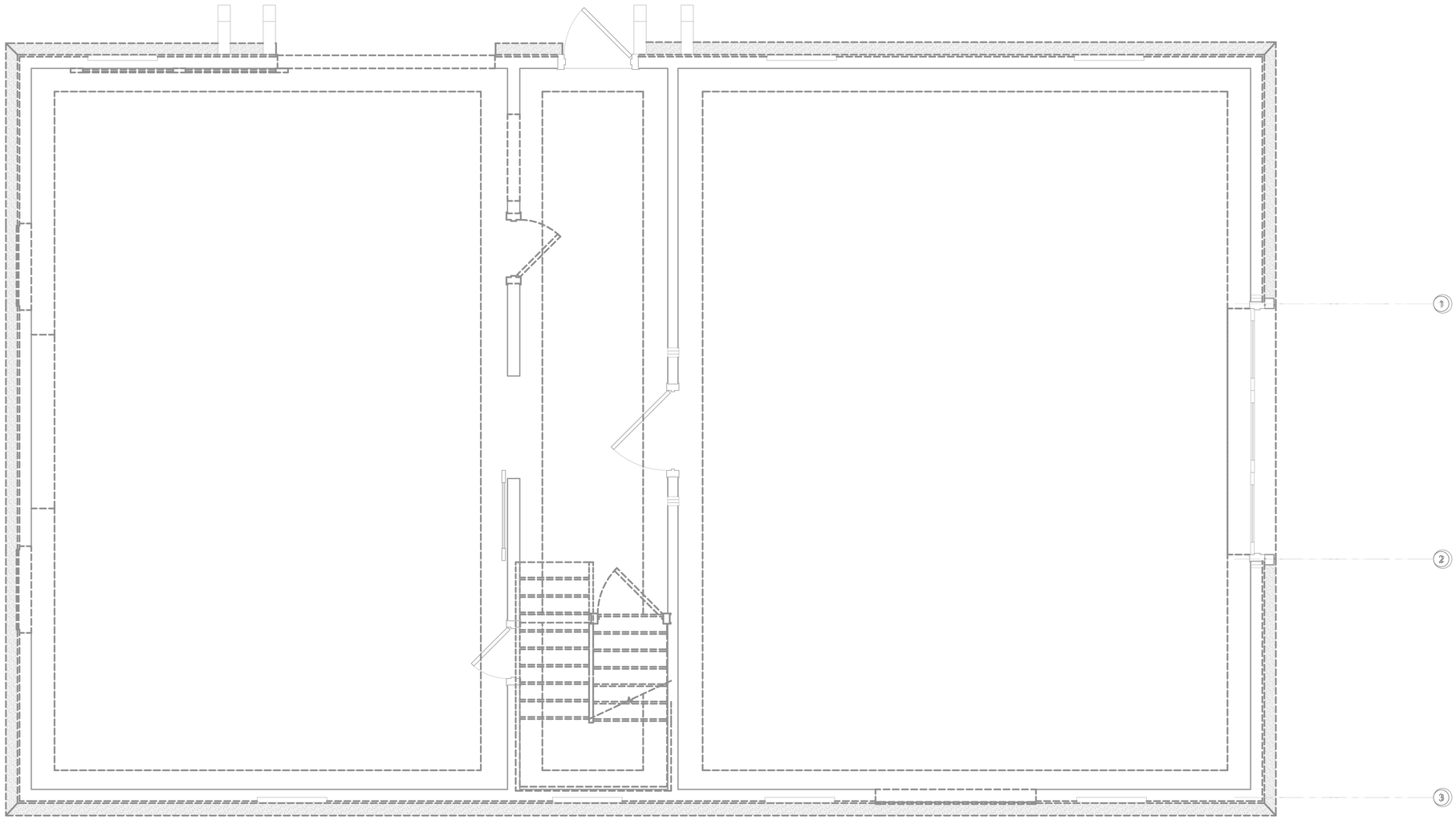
A. DARK DASHED LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES DEMOLISHED COMPLETE. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING AND DEMOLITION. CONTRACTOR TO INCLUDE ALL COST TO REMOVE ITEMS MADE OBSOLETE DUE TO NEW HVAC WORK.

B. CONTRACTOR GIVES OWNER FIRST RIGHTS OF REFUSAL ON ANY EXISTING EQUIPMENT THE OWNER MAY WANT TO KEEP. IF OWNER DECIDES SAID ITEM IS TO BE REMOVED, THEN CONTRACTOR IS TO REMOVE FROM PROJECT SITE AS REQUIRED.

C. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO DEMOLITION AND BIDDING.

DEMOLITION COMBINED PLAN NOTES

#	NOTE
1	
2	
3	



2A FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/2" = 1'-0"

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NEWTON COUNTY
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HAZELDEN
ESTATE
RESTORATION -
CARRIAGE
HOUSE
RENOVATION -
BID PACKAGE 4

FIRST FLOOR
DEMOLITION PLAN

MD101.4

MD101.4_FIRST FLOOR DEMOLITION PLAN
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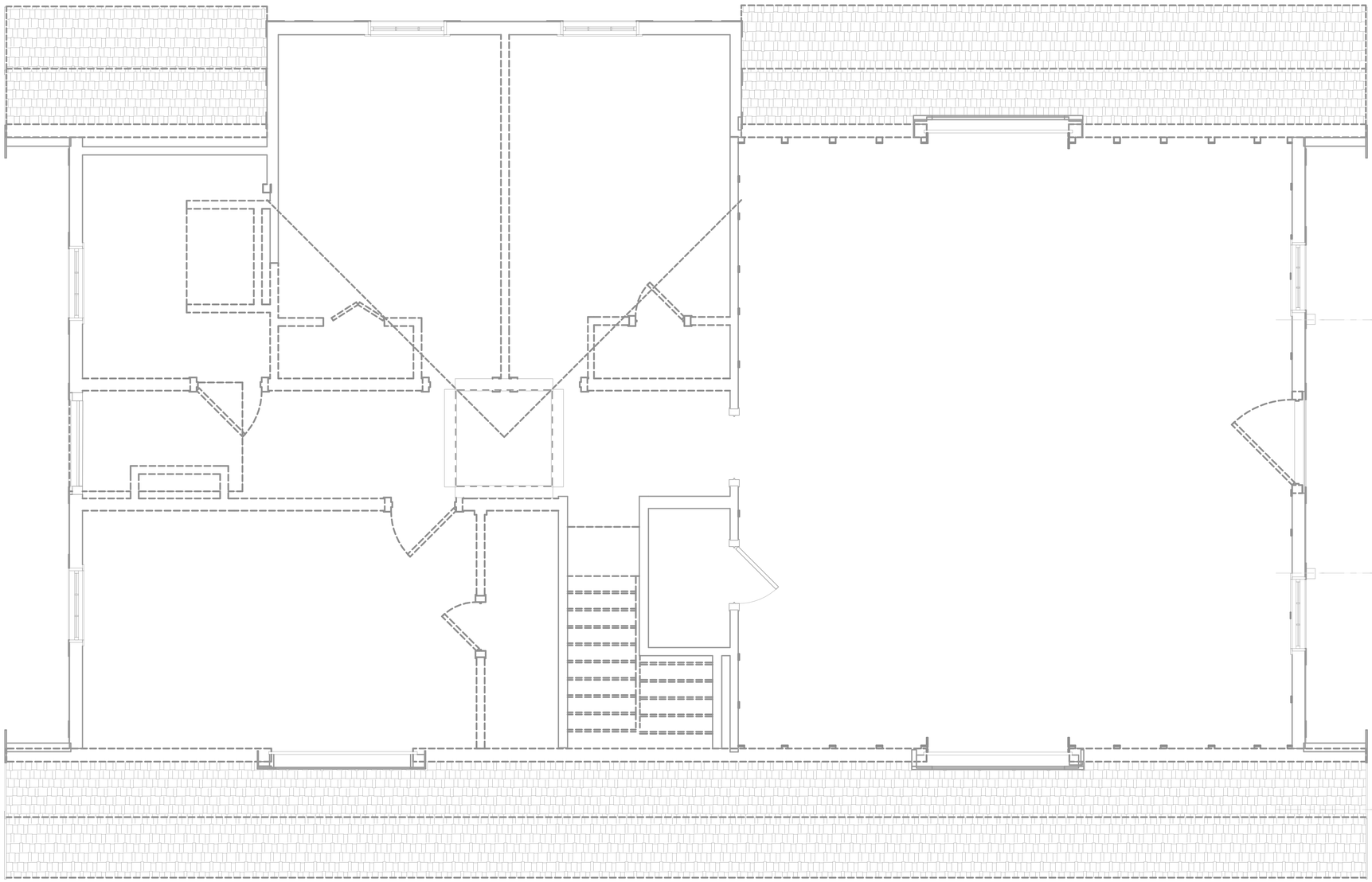

1A SECOND FLOOR MECHANICAL DEMOLITION PLAN
1/2" = 1'-0"

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Sarah K Hempstead

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RESTORATION -
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RENOVATION -
BID PACKAGE 4

SECOND FLOOR
DEMOLITION PLAN

MD102.4

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GENERAL HVAC NOTES

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MECHANICAL COMBINED PLAN NOTES

#	NOTE
13	PROVIDE REGISTER PLENUM BOOT. EXTERNALLY INSULATE WITH R-6 FSK.
14	TRIANGLE SHAPED LOUVER. REFER TO ARCHITECTURAL PLANS FOR INFORMATION. CONSTRUCT PLENUM BOX FOR LOUVER. CONNECT OUTDOOR AIR DUCTWORK WITH BACKDRAFT DAMPER.
15	ROUTE CONDENSATE TO MOP BASIN ON FLOOR BELOW. REFER TO #/M-X FOR CONTINUATION.
16	ROUTE REFRIGERANT LINES TO FLOOR BELOW. REFER TO #/M-X FOR CONTINUATION.
17	OUTDOOR AIR DUCTWORK CONNECTS TO RETURN AIR CONNECTION.
18	EXHAUST DUCTWORK TERMINATES AT CUPOLA. COVER END OF EXHAUST DUCTWORK WITH 1/8"X1/8" WIRE MESH.
19	ENERGY RECOVERY UNIT INSTALLED IN ATTIC ABOVE ELEVATOR. REFER TO 5A/M-501 FOR ISOMETRIC OF UNIT.
20	PROVIDE RETURN AIR GRILLE LOW ON WALL. REFER TO 4C/M-501 FOR DIMENSIONS AND CONNECTIONS.
21	REFER TO DETAIL 1A/M-501.4.
22	PROVIDE REMOTE OPERATED DAMPER FROM FACE OF GRILLE, LIKE YOUNG'S REGULATOR.
23	INSTALL AIR CURTAIN AT 7'-0" ABOVE FINISHED FLOOR, FOR INSECT CONTROL. TIE OPERATION TO MAGNETIC DOOR SENSOR.
24	ROUTE COMBUSTION INTAKE AND FLUE UP THROUGH ROOF, ALONGSIDE PLUMBING PATHWAY. COORDINATE WITH MANUFACTURER'S REQUIREMENTS FOR SIZING OF COMBUSTION AIR AND FLUE. PROVIDE MANUFACTURER CONCENTRIC VENT KIT.
25	SLOT DIFFUSER ARE BLANK OFF ONLY.
26	PROVIDE REMOTE TEMPERATURE SENSOR AT 48" AFF. TIE OPERATION BACK TO THERMOSTAT INSTALLED NEXT TO FURNACE F-1.
27	PROVIDE WIFI ENABLED, PROGRAMMABLE THERMOSTAT, LIKE HONEYWELL T-9 ON WALL ADJACENT TO FURNACE.
28	PROVIDE REMOTE TEMPERATURE SENSOR AT 48" AFF. TIE OPERATION BACK TO THERMOSTAT INSTALLED NEXT TO FURANCE F-2.

MECHANICAL COMBINED PLAN NOTES

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2	CONDENSING UNITS TO BE INSTALLED 12" ABOVE GRADE. PROVIDE MIRO OR BIG FOOT STAND TO OFFSET FROM TOP OF CONCRETE PAD. COORDINATE WITH SITE AND CIVIL DRAWINGS FOR OBSTRUCTIONS. MAINTAIN 24" BETWEEN UNITS AND 6" AWAY FROM EXTERIOR WALL, 12" AWAY FROM FENCING.
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4	PROPOSED REFRIGERANT PIPING ROUTING. ROUTE PIPE THROUGH CEILING FROM CONDENSING UNIT CU-2 TO FURNACE COOLING COIL F-2 AT FLOOR ABOVE. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SIZING AND MAXIMUM LENGTHS.
5	MOUNT TRANSFER GRILLE ON WALL. REFER TO SECTION 3D/M-501. SLEEVE DUCT THROUGH WALL AND TURN UPWARD WITH 20"X16" AND TERMINATE WITH 1/2"X1/2" WIRE MESH.
6	MOUNT GRILLE CENTERED ABOVE DOORWAY.
7	ROUTE OVAL DUCTWORK ACROSS CORRIDOR WITHOUT FLANGES. DUCTWORK TO BE INTERNALLY LINED AND HAVE PAINT GRIP COATING FROM FACTORY.
8	ROUTE OUTDOOR AIR AND EXHAUST AIR DOWN FROM ATTIC SPACE ABOVE SECOND FLOOR.
9	TERMINATE RETURN DUCTWORK ABOVE CEILING IN HALLWAY. TERMINATE WITH 12"X12" WIRE MESH.
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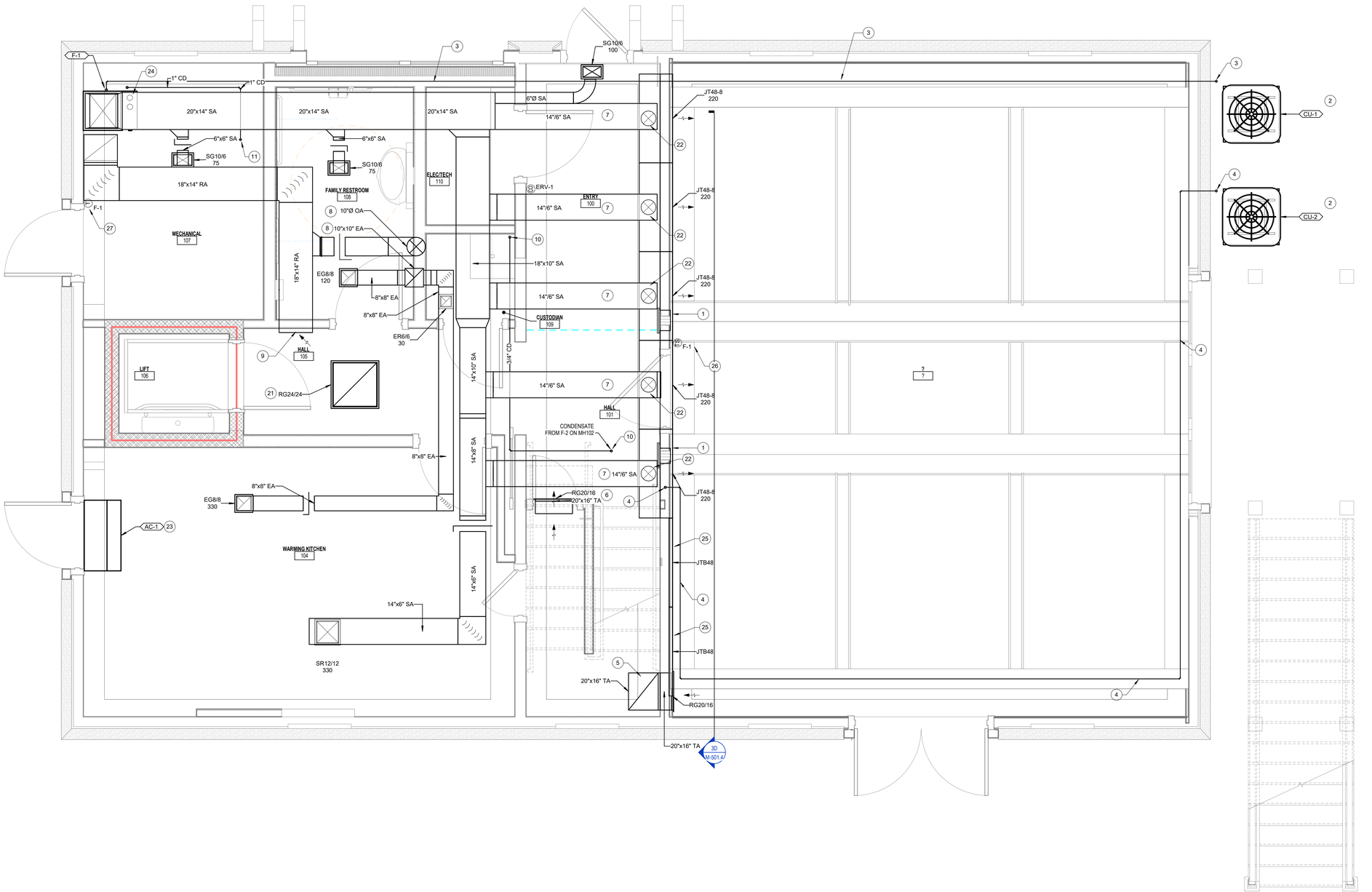

1A **FIRST FLOOR HVAC PLAN**
1/2" = 1'-0"

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3705 IN SR 16
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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

FIRST FLOOR HVAC PLAN

MH101.4

MH101.4_FIRST FLOOR HVAC PLAN
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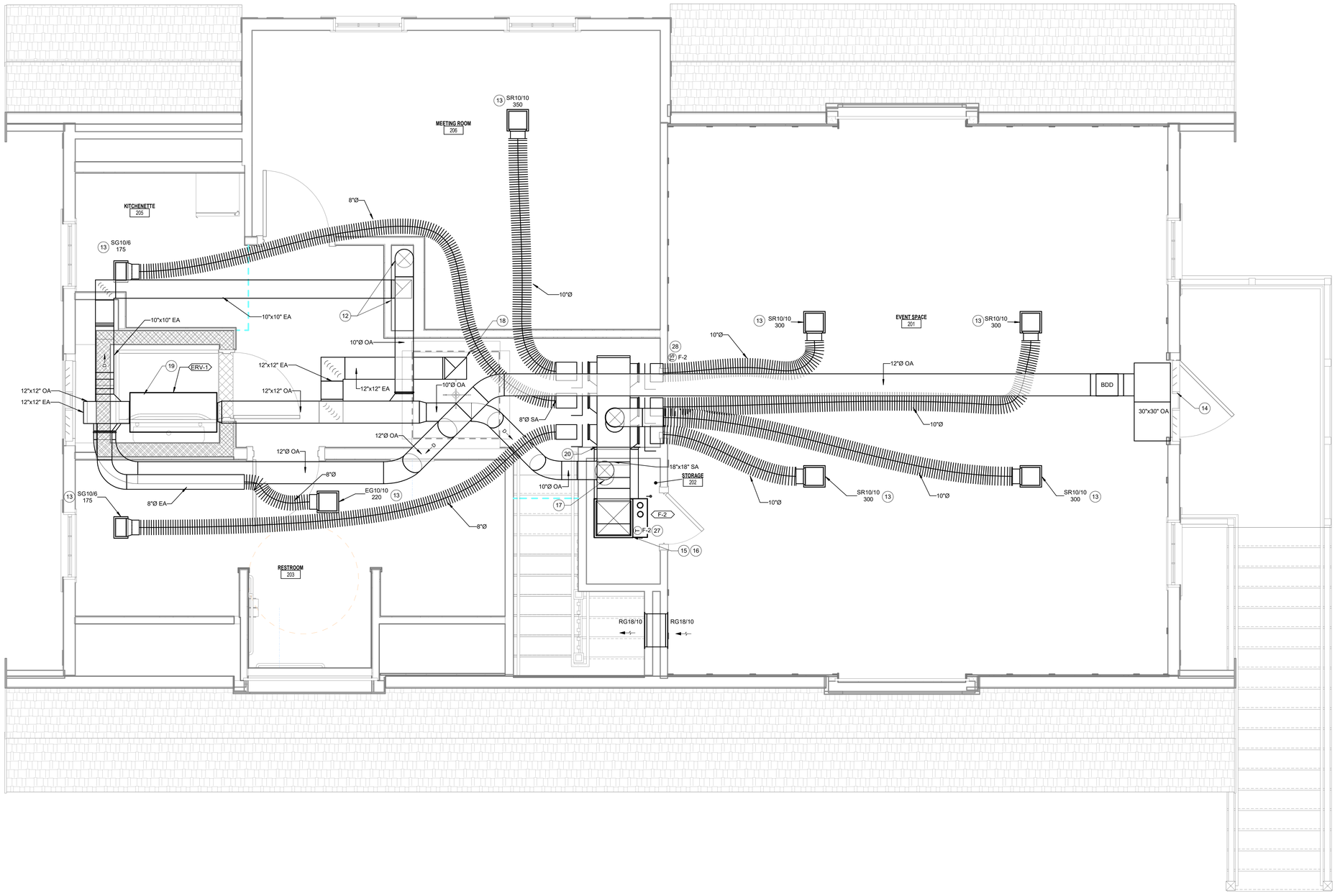

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3705 IN SR 16
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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SECOND FLOOR HVAC PLAN

MH102.4

MH102.4_SECOND FLOOR HVAC PLAN
20210036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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ABBREVIATIONS

AD	AREA DRAIN
ADA	AMERICAN DISABILITIES ACT
ADJ	ADJUSTABLE
AE	ANESTHESIA EVACUATION
AFF	ABOVE FINISHED FLOOR
ALTER	ALTERNATE
AMP	AMPERE (AMP, AMPS)
APPROX	APPROXIMAT(E), (LY)
ARCH	ARCHITECT (URAL)
APD	AIR PRESSURE DROP (IN WG)
AV	ACID VENT
AW	ACID WASTE
A	COMPRESSED AIR
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BOP	BOTTOM OF PIPING
BT	BATHTUB
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED
CI	CAST IRON
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONN	CONNECTION
CW	COLD WATER (DOMESTIC)
D	DRAIN
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWS	DOMESTIC WATER SOFTNER
EC	ELECTRICAL CONTRACTOR
ECO	EXTERIOR CLEANOUT
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EW	EMERGENCY EYEWASH
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FLR	FLOOR
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FT	FOOT/FEET
FTG	FOOTING
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
HB	HOSE BIB
HD	HEAD (FT.)
HO	HUB OUTLET
HORIZ	HORIZONTAL
HWCP	HOT WATER RECIRCULATING PUMP
HR	HOUR
HW	HOT WATER (DOMESTIC)
HWR	HOT WATER RETURN
HZ	FREQUENCY (MEGAHERTZ)
ID	INSIDE DIAMETER
IN	INCH/INCHES
INCL	INCLUD(E), (ED)
INDIC	INDICATOR
INSUL	INSULAT(E), (ED), (ION)
INT	INTERIOR
INV	INVERT
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATT
L	LAVATORY
LA	LABORATORY AIR
LAB	LABORATORY
LBS	POUND
LEC	LABORATORY EQUIPMENT CONTRACTOR
LFC	LABORATORY FURNISHINGS CONTRACTOR
LP	LIQUID PETROLEUM
LPC	LABORATORY PLUMBING CONTRACTOR
LV	LABORATORY VACUUM
MA	MEDICAL AIR
MAX	MAXIMUM
MB	MOP BASIN
MS	MOP SINK
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NITROGEN
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OFD	OVERFLOW DRAIN
OE	ORAL EVACUATION
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OSD	OPEN SITE DRAIN

ABBREVIATIONS

P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP (IN OR WG AS NOTED)
PER	PERCENT
PH	PHASE
PI	PRESSURE INDICATOR
PIV	POST INDICATOR VALVE
PLT	PLASTER TRAP
POC	POINT OF CONNECTION (NEW TO EXISTING)
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	THERMAL RESISTANCE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECIR	RECIRCULAT(E), (OR), (ING)
RH	RODDING HOLE
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPM	REVOLUTIONS PER MINUTE
SB	SITZ BATH
SCW	SOFT COLD WATER (DOMESTIC)
SECT	SECTION
SF	SQUARE FOOT
SH	SHOWER
SHT	SHEET
SK	SINK
SPEC	SPECIFICATIONS
SPG	SPECIAL GAS
SS	STAINLESS STEEL
SSD	SUB SURFACE (FOOTING) DRAIN
SSK	SERVICE SINK
ST	STORAGE TANK
STD	STANDARD
STP	STORAGE TANK PUMP
STS, STR	STORAGE TANK SUPPLY AND RETURN
STRUCT	STRUCTURE(E), (AL)
SU	SHOWER UNIT
T&P	TEMPERATURE AND PRESSURE
T	TEMPERED WATER
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TS	TAMPER SWITCH
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VA	VOLT AMPERE
VAC	VACUUM
VAR	VARIABLE
VB	VACUUM BREAKER
VC	VACUUM CLEANING
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VITRIFIED TILE
VPD	VACUUM PUMP DISCHARGE
VTR	VENT THROUGH ROOF
VV	VACUUM VENT
W/	WITH
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WH	WALL HYDRANT
W/O	WITHOUT
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WTR	WATER
YD	YARD DRAIN
ZN	ZONE

FIRE PROTECTION SYMBOLS

F	FIRE WATER MAIN
	POST INDICATOR VALVE
	FIRE DEPT. CONNECTION
F	FLOW SWITCH
TS	TAMPER SWITCH
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	DRY PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	ZONE VALVE (OS&Y)
FA	ALARM VALVE

DRAWING NOTATIONS

DEMO	NEW	PLAN NOTE
3 / M-501		DETAIL REFERENCE
2 / M-301		SECTION REFERENCE
		NEW TO EXISTING
		DEMO TO THIS POINT
XXX-1		EQUIPMENT TAG - (SEE SCHEDULE SHEETS)
XXX-1		FIXTURE TAG - (SEE SCHEDULE SHEETS)

NOTE:
ALL SYMBOLS AND ABBREVIATIONS
MAY NOT BE USED FOR THIS PROJECT

GENERAL DUTY VALVES & FITTINGS

	RISE IN PIPING
	DROP IN PIPING
	CAPPED PIPE
	PIPE CONTINUED ON ANOTHER DRAWING
	CHECK VALVE
	PLUG VALVE
	PRESSURE REGULATING VALVE
	VALVE - SEE SPECIFICATIONS FOR VALVE TYPE
	BUTTERFLY VALVE
	ANGLE VALVE
	MANUAL BALANCING VALVE
	AUTOMATIC BALANCING VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	UNION
	THERMOMETER WELL
	THERMOMETER & WELL
	GAUGE CONNECTION(S) & WELL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PETE'S PLUG
	Y-STRAINER W/BLOWDOWN VALVE & CAP
	PIPE GUIDES
	PIPE ANCHORS
	FLEXIBLE PIPING CONNECTOR
	PIPE EXPANSION JOINT
	GAS COCK
A	VACUUM BREAKER (P) = PRESSURE
	DOMESTIC COLD WATER VALVE BOX
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PRESSURE REDUCING VALVE

PIPING SYSTEMS

140° HW	140° DOMESTIC HOT WATER
140° HWR	140° DOMESTIC HOT WATER RETURN
160° HW	160° DOMESTIC HOT WATER
160° HWR	160° DOMESTIC HOT WATER RETURN
AV	ACID RESISTANT VENT
AW	ACID RESISTANT WASTE
AIR	AIR
CA	COMBUSTION AIR
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
EA	EXHAUST AIR
FPD	FIRE PROTECTION DRY
FP	FIRE PROTECTION OTHER
FPPA	FIRE PROTECTION PRE-ACTION
FPW	FIRE PROTECTION WET
G (6 in-wc)	GAS (6" w.c.)
G (11 in-wc)	GAS (11" w.c.)
G (2 psig)	GAS (2 psig)
G (5 psig)	GAS (5 psig)
GW	GREASE WASTE
LA	LAB AIR
LCW	LAB COLD WATER
LHW	LAB HOT WATER
LHR	LAB HOT WATER RETURN
LVAC	LAB VACUUM
LVE	LAB VACUUM EXHAUST
N2	NITROGEN
PWR	PURE WATER RETURN
PWS	PURE WATER SUPPLY
RCW	RAW COLD WATER
RO	REVERSE OSMOSIS WATER
ROR	REVERSE OSMOSIS WATER RETURN
SCW	SOFT COLD WATER
SHW	SOFT HOT WATER
ST	STORM
TW	TEMPERED WATER
VAC	VACUUM
V	VENT
W	WASTE

ABANDONED PIPING SYSTEMS

AV	ABANDONED ACID-RESISTANT VENT
AW	ABANDONED ACID-RESISTANT WASTE
AIR	ABANDONED AIR
CW	ABANDONED COLD WATER
FP	ABANDONED FIRE PROTECTION
GAS	ABANDONED GAS
GW	ABANDONED GREASE WASTE
HW	ABANDONED HOT WATER
HWR	ABANDONED HOT WATER RETURN
N2	ABANDONED NITROGEN
ST	ABANDONED STORM
VAC	ABANDONED VACUUM
V	ABANDONED VENT
W	ABANDONED WASTE

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Project Date 01.08.2026
Produced AQS

SARAH KATHLEEN HUMPSTEAD
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STATE OF INDIANA
ARCHITECT

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#	Revision	Date

3705 IN- 16
Brook, IN 47922

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN
ESTATE
RESTORATION -
CARRIAGE
HOUSE
RENOVATION -
BID PACKAGE 4

PLUMBING SYMBOLS AND ABBREVIATIONS

P-001.4

Path: K_PLUMBING SYMBOLS AND ABBREVIATIONS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
C:_Revit central\2021-036.GAH_Mep(M)_P_2022\2021-036.GAH_Mep(M)_P_2022_wkeyes.rvt
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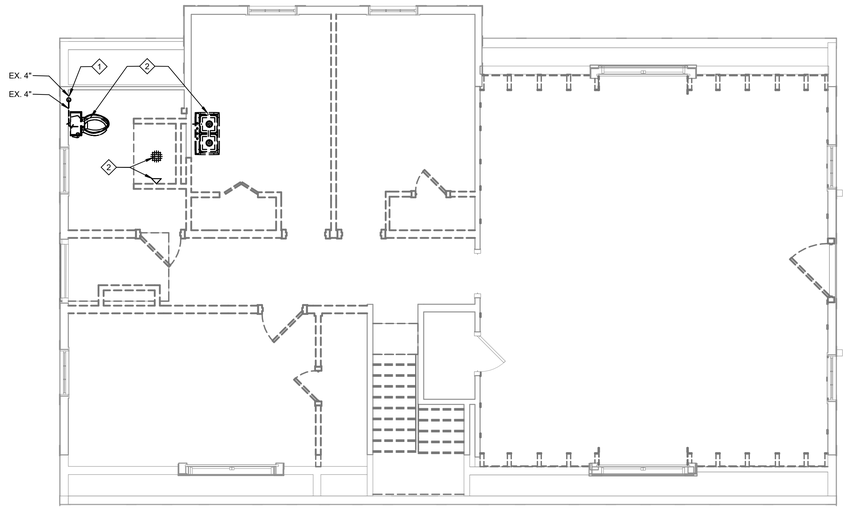
PLUMBING RENOVATION NOTES

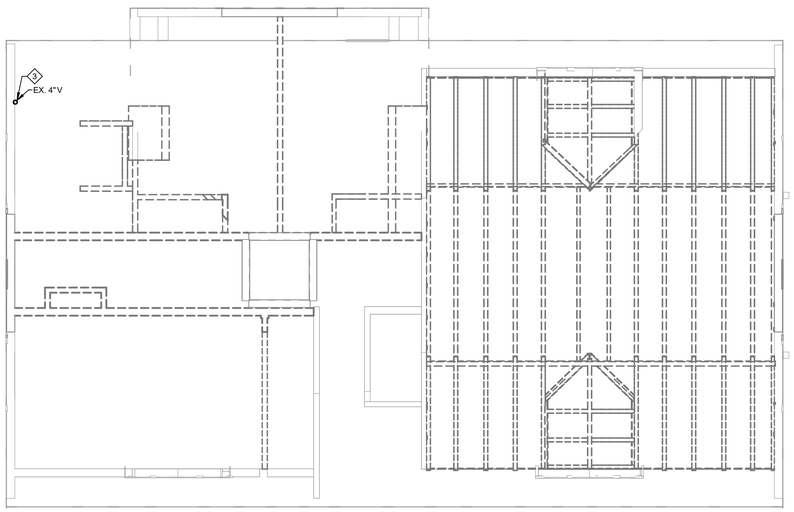
1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING SANITARY SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.
3. ALL UNDERGROUND SANITARY OR STORM PIPING SHOWN TO BE ABANDONED IN PLACE SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL.
4. WHERE PLUMBING FIXTURE ROUGH-IN PIPING IS SHOWN TO BE ABANDONED IN WALLS OR BELOW FLOOR SLAB, ROUGH-INS SHALL BE REMOVED TO A POINT BEYOND THE FINISHED SURFACE AND CAPPED. PATCH SURFACE TO MATCH EXISTING FINISH.
5. IN AREAS WHERE A FULL REMODEL IS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL REMOVE ALL OVERHEAD PIPING AND HANGERS COMPLETE UNLESS OTHERWISE INDICATED.
6. WHERE SANITARY OR ACID VENT THROUGH ROOF IS SHOWN TO BE ABANDONED IN PLACE, CONTRACTOR SHALL PERMANENTLY CAP PIPE ABOVE AND BELOW ROOF FOR A WATER TIGHT SEAL.

DEMOLITION PLAN NOTES

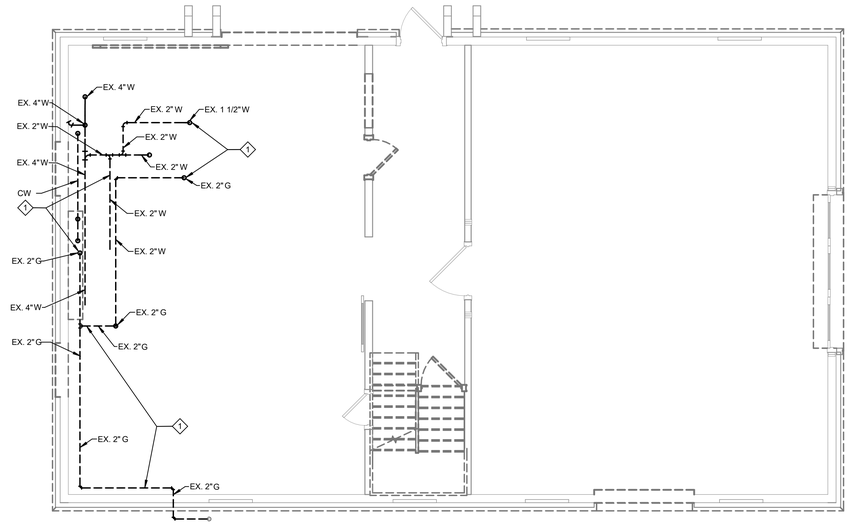
#	NOTE
1	CONTRACTOR REMOVE ALL PIPING AND PIPING SUPPORTS COMPLETE.
2	CONTRACTOR SHALL REMOVE PLUMBING FIXTURES, CARRIERS, AND ASSOCIATED DOMESTIC WATER, WASTE, AND VENT PIPING COMPLETE.
3	CONTRACTOR SHALL REMOVE VENT PIPING COMPLETELY.



1C LEVEL 02 DEMOLITION PLUMBING PLAN
1/4" = 1'-0"



5A ATTIC DEMOLITION PLUMBING PLAN
1/4" = 1'-0"



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1/4" = 1'-0"

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Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

DEMOLITION PLUMBING PLAN

PPD01.4

PPDV1_4_DEMOLITION PLUMBING PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
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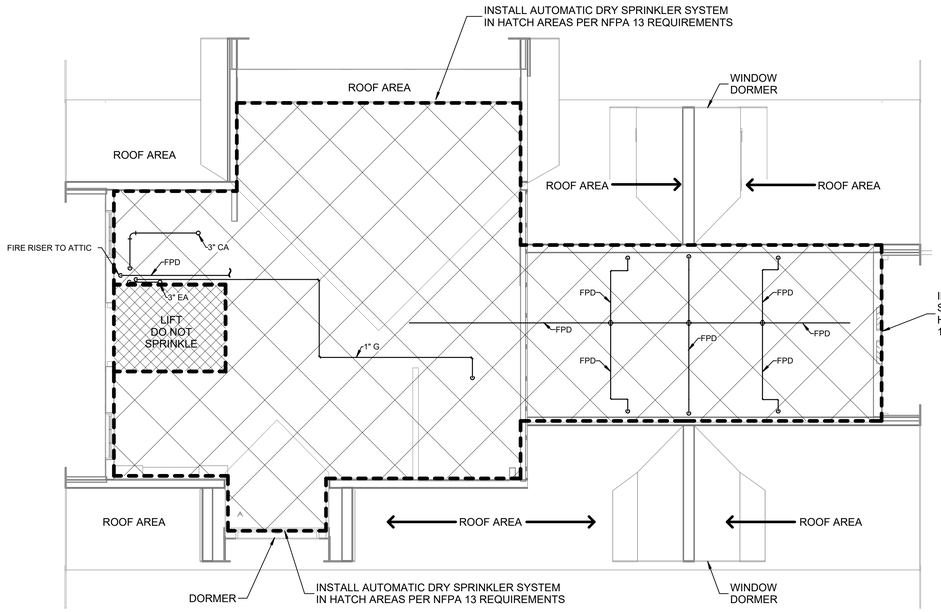
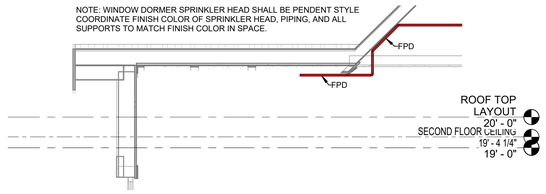


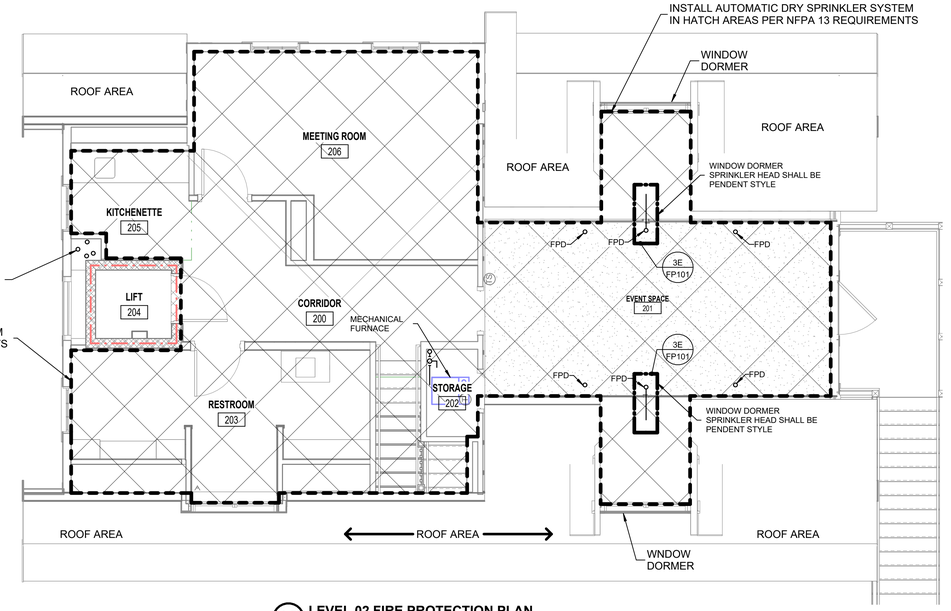
6C ATTIC FIRE PROTECTION PLAN
1/4" = 1'-0"



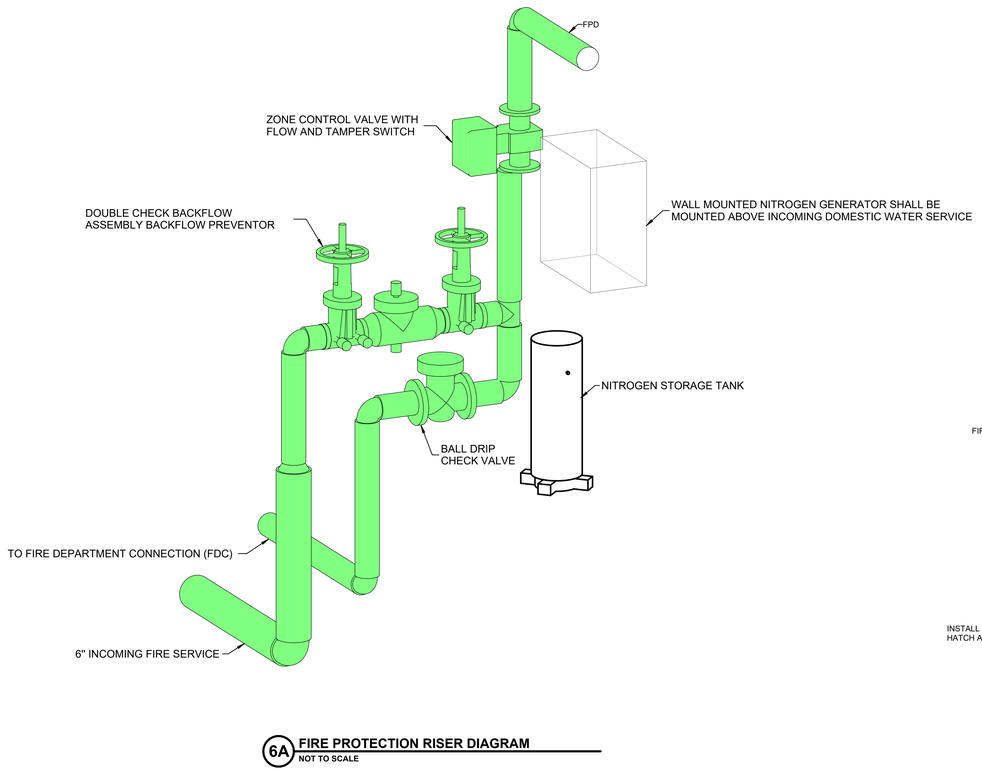
3E WINDOW DORMER SPRINKLER DIAGRAM
NOT TO SCALE

FIRE PROTECTION GENERAL NOTES

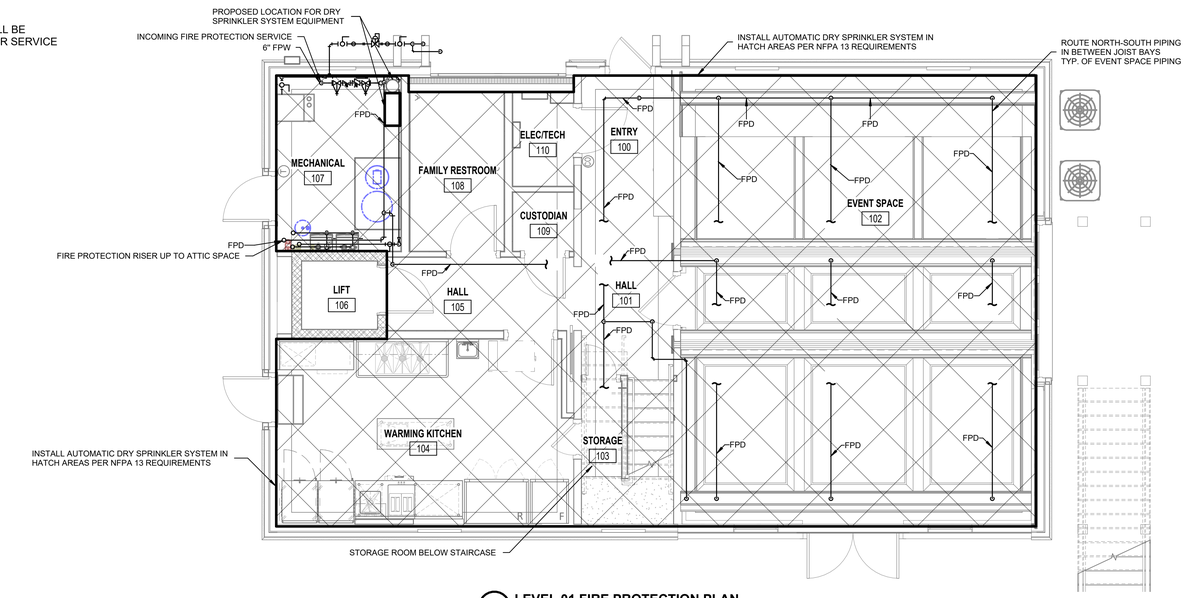
1. SPRINKLER SCHEDULE:
   ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS
   ROOMS WITH CEILINGS: CONCEALED SPRINKLER HEADS
   WALL MOUNTING: SIDEWALL SPRINKLER HEADS
   SUBJECT TO FREEZING: DRY PENDANT SPRINKLER HEADS
2. ALL SPRINKLER COVERAGE SHALL COMPLY WITH MINIMUM STANDARDS AS ESTABLISHED BY NFPA 13, INCLUDING OFFICE SPACES.
3. WHERE APPLICABLE, INCOMING FIRE PROTECTION WATER SERVICE AND FIRE DEPARTMENT CONNECTION MAIN FROM 5'-0" OUTSIDE OF BUILDING TO FLANGED CONNECTION 12" ABOVE FLOOR OR FROM WALL SHALL BE PROVIDED BY DIVISION 22.
4. WHERE MAIN ELECTRIC ROOMS HAVE A 2-HOUR RATING, DO NOT INSTALL SPRINKLER COVERAGE.
5. DO NOT ROUTE SPRINKLER PIPING OVER ANY TELEDATA, IDF, MDF OR SIMILAR ROOM. PROVIDE SIDEWALL SPRINKLER COVERAGE FOR THE SPACE WITH HEAD LOCATED ABOVE DOOR WHEREVER POSSIBLE.
6. DO NOT ROUTE SPRINKLER PIPING OVER ANY ELECTRICAL ROOM. PROVIDE SIDEWALL SPRINKLER COVERAGE FOR THE SPACE WITH HEAD LOCATED ABOVE DOOR WHEREVER POSSIBLE.
7. REFER TO STRUCTUAL DRAWINGS FOR FURTHER INFORMATION ON BUILDING STRUCTURE FOR ROUTING COORDINATION.
8. ALL PIPING, SIZES, ZONES, AND SPRINKLER MAINS SHOWN ON THE DRAWINGS ARE FOR BIDDING AND DESIGN INTENT ONLY. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROPER COVERAGE AND CAPACITY OF SPRINKLER SYSTEM. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FIRE SUPPRESSION SYSTEM AND DRAWINGS REQUIRED TO COMPLY WITH THE OWNERS INSURANCE UNDERWRITER AS WELL AS LOCAL BUILDING AND FIRE CODES REQUIRED BY THE AHJ.
9. PORPOSED SPRINKLER PIPE ROUTING SHOWN TO MAINTAN AESTHETIC. CONTRACTOR SHALL VERIFY ROUTING IN FIELD AND COORDINATE WITH ALL DISCIPLINES AS REQUIRED. CONTRACTOR SHALL SUBMIT DEVIATION FROM PROPOSED ROUTING DURING SUBMITTAL PROCESS TO MAINTAIN COMPLIANCES WITH CONTRACT DOCUMENTS. CONTRACTOR SHALL ROUTE PIPING AS NEEDED FOR COMPLANCES WITH LOCAL BUILDING AND FIRE CODES BY THE AHJ.



1C LEVEL 02 FIRE PROTECTION PLAN
1/4" = 1'-0"



6A FIRE PROTECTION RISER DIAGRAM
NOT TO SCALE



1A LEVEL 01 FIRE PROTECTION PLAN
1/4" = 1'-0"

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NEWTON COUNTY
BOARD OF
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HAZELDEN
ESTATE
RESTORATION -
CARRIAGE
HOUSE
RENOVATION -
BID PACKAGE 4

FIRE PROTECTION PLANS

FP101.4

FP101.4 - FIRE PROTECTION PLANS
2021-036.GAH-NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
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PLUMBING RENOVATION NOTES

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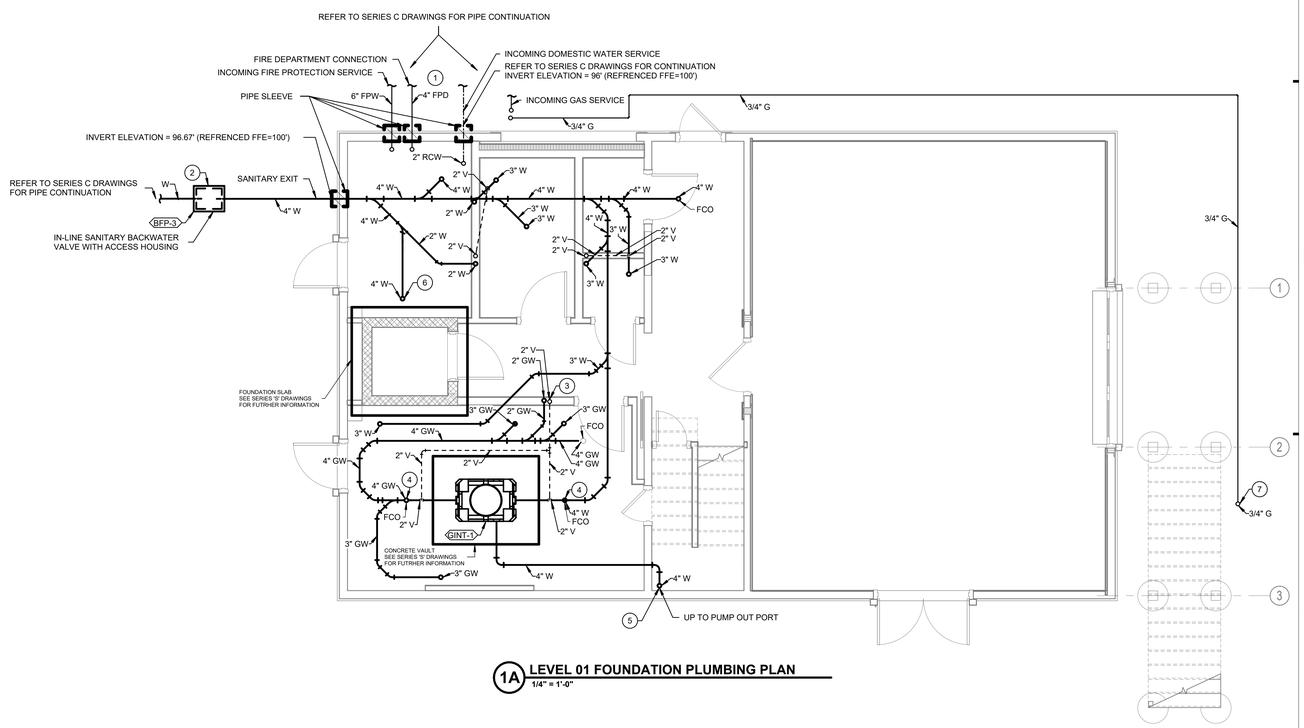
FOUNDATION PLUMBING PLAN NOTES

#	NOTE
1	CONTRACTOR SHALL COORDINATE INCOMING GAS, DOMESTIC WATER, AND FIRE PROTECTION SERVICES WITH CONSTRUCTION DRAWINGS AND EQUIPMENT IN MECHANICAL ROOM.
2	CONTRACTOR SHALL INSTALL BACKWATER VALVE IN LINE ON EXITING SANITARY LATERAL. INSTALL IN GRASS AREA MIN. 1'-0" FROM EDGE OF SIDEWALK FLUSH WITH GROUND SURFACE. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS. COORDINATE WITH ALL TRADES FOR INSTALLATION.
3	ROUTE GREASE INTERCEPTOR INLET AND OUTLET VENT PIPING UNDER SLAB AND UP INTO KITCHEN WALL. ROUTE VENT OUT OF BUILDING INDEPENDENTLY.
4	CONTRACTOR SHALL INSTALL TWO WAY CLEAN OUT ON GREASE INTERCEPTOR INLET AND OUTLET PIPING.
5	ROUTE PUMP OUT PORT WASTE PIPING FROM GREASE INTERCEPTOR UNDER SLAB TO CORNER OF KITCHEN CLOSET.
6	CONTRACTOR SHALL COORDINATE PIPE ROUTING WITH STRUCTURE SO AS NOT TO UNDERMINE STRUCTURAL FOOTING.
7	ROUTE GAS PIPE TO EXTERIOR ELECTRICAL GENERATOR. COORDINATE LOCATION OF UPTURN WITH ALL DISIPLINCES AS NECESSARY. PREPARE FOR PIPING ASSEMBLY AND GAS REGULATOR.



1A LEVEL 01 FOUNDATION PLUMBING PLAN
1/4" = 1'-0"

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Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

FOUNDATION PLUMBING PLANS

PF101.4

PF101.4_ FOUNDATION PLUMBING PLANS
2021.036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_ HAZELDEN ESTATE RESTORATION_
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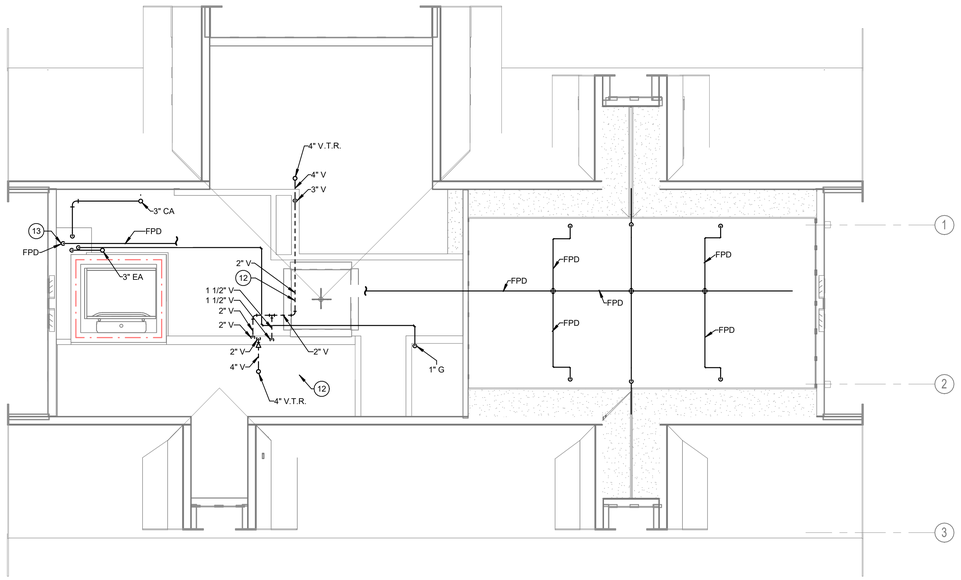
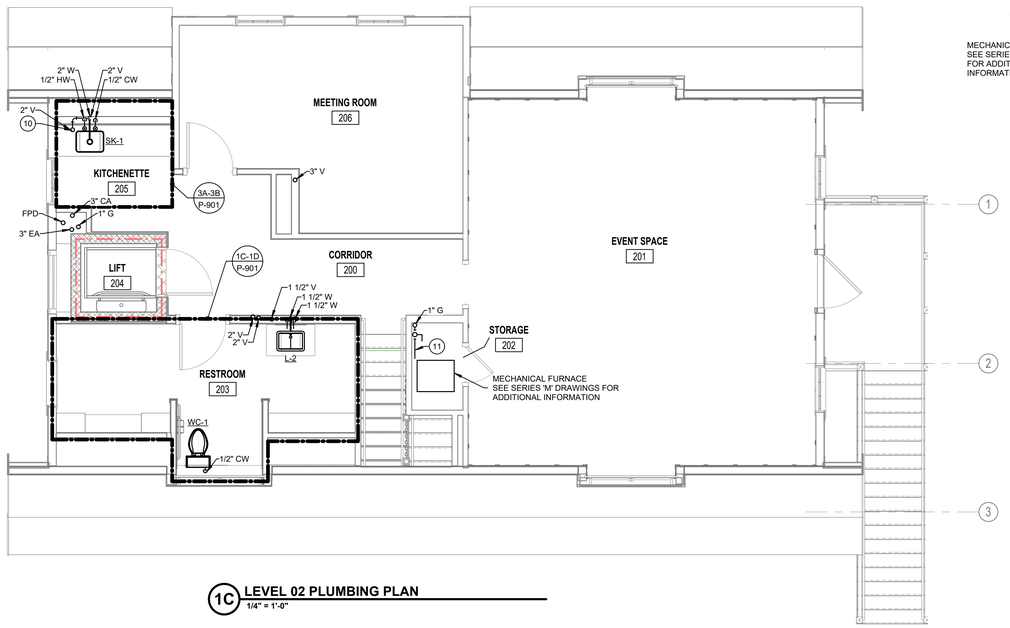
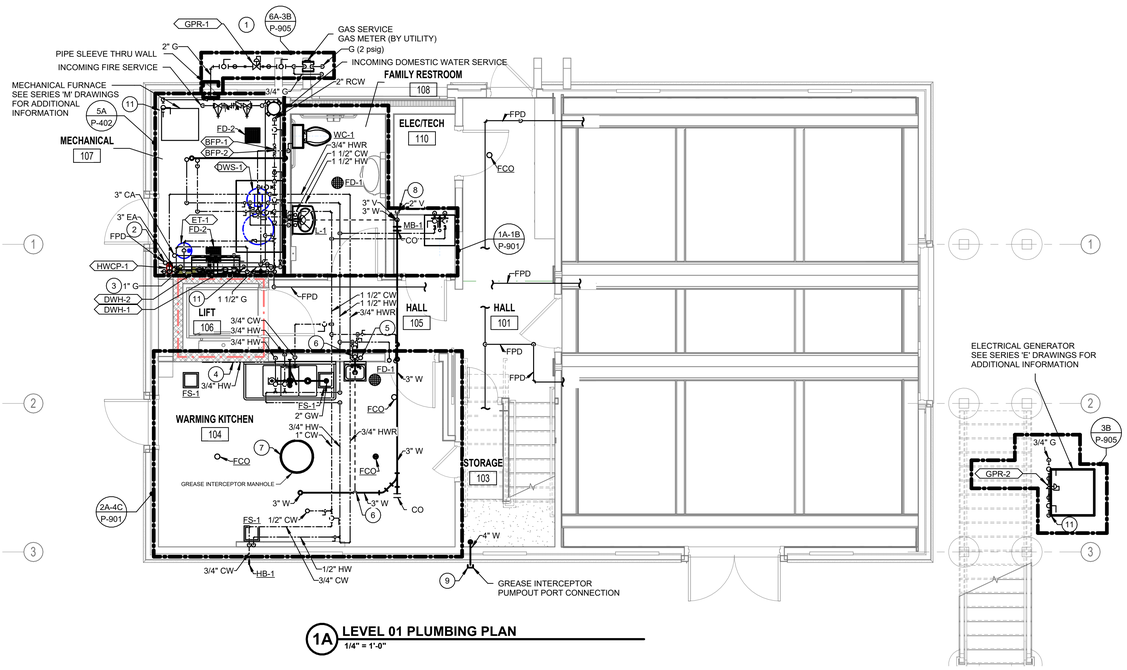


5A **ATTIC PLUMBING PLAN**
1/4" = 1'-0"



1C **LEVEL 02 PLUMBING PLAN**
1/4" = 1'-0"



1A **LEVEL 01 PLUMBING PLAN**
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PLUMBING PLAN NOTES

#	NOTE
1	CONTRACTOR SHALL COORDINATE INCOMING DOMESTIC WATER, FIRE PROTECTION, AND GAS SERVICES INCLUDING ASSOSICATED EQUIPMENT WITH OVERALL MECHANICAL ROOM LAYOUT. COORDINATE WITH ALL TRADES AS REQUIRED.
2	CONTRACTOR SHALL ROUTE FIRE PROTECTION, WATER HEATER COMBUSTION AND INTAKE PIPES UP THRU MECHANICAL ROOM, THRU SECOND FLOOR CHASE, AND TO ATTIC SPACE.
3	CONTRACTOR SHALL ROUTE GAS PIPING UP THRU MECHANICAL ROOM, THRU SECOND FLOOR CHASE, TO ATTIC SPACE, AND TRAVEL TO SECOND FLOOR FURANCE STORAGE ROOM.
4	CONTRACTOR SHALL ROUTE HOT WATER LINE DOWN THRU STUD WALL AND RUN EXPOSED ACROSS KITCHEN WALL TO UNDERCOUNTER DISHWASHER.
5	ROUTE GREASE INTERCEPTOR 2'' VENT PIPING UP THRU KITCHEN WALL. ROUTE VENT OUT OF BUILDING INDEPENDENTLY.
6	ROUTE VENT FROM SECOND FLOOR WATER CLOSET AND KITCHEN HAND WASHING SINK UP THRU SECOND FLOOR WALL.
7	CONTRACTOR SHALL INSTALL GREASE INTERCEPTOR MANHOLE CENTERED UNDER PLANNED KITCHEN TABLE AND FLUSH WITH FINISHED FLOOR PER MANUFACTURER INSTALLATION MANUAL.
8	CONTRACTOR SHALL COMBINE MOP BASIN VENT WITH SANITARY STACK VENT.
9	CONTRACTOR SHALL ROUTE PUMP OUT PORT OUT OF BUILDING TWO FEET ABOVE FINSIHED FLOOR. COORDINATE EXTERIOR WALL PENETRATION WITH ALL DISCIPLINES AS NECESSARY.
10	CONTRACTOR SHALL INSTALL AIR ADMITTANCES VALVE BELOW SK-1. ENSURE INSTALLATION IS COORDINATED WITH MANUFACTURER SINK INSTALLATION GUIDE AND ADA REGULATION AS NECESSARY.
11	CONNECT GAS LINE TO EQUIPMENT.
12	CONTRACTOR SHALL COMBINED VENTS TOGETHER IN ATTIC SPACE AND OUT OF FINISHED ROOF.
13	CONTRACTOR SHALL ROUTE FIRE PROTECTION PIPING THROUGH ATTIC.

NOTE: CONTRACTOR SHALL COORDINATE PIPING AND ASSOCIATED MATERIALS FOR AIR RETURN PLENUM/CEILING SPACES PER SPECIFICATION REQUIREMENT.

PLUMBING FIXTURE ROUGH-IN LEGEND

	FIXTURE CONNECTION			
	CW	HW	W	V
HB-1	3/4"			
FCO				
FD-1			3"	
FD-2			4"	
FS-1			4"	
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
HS-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-1	3/4"	3/4"	2"	
WC-1	1"		3"	2"
MB-1	3/4"	3/4"	3"	1 1/2"
SK-1	1/2"	1/2"	2"	2"

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BID PACKAGE 4

PLUMBING PLANS

PP101.4

PP101.4_PLUMBING PLANS
2021.036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
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PLUMBING RENOVATION NOTES

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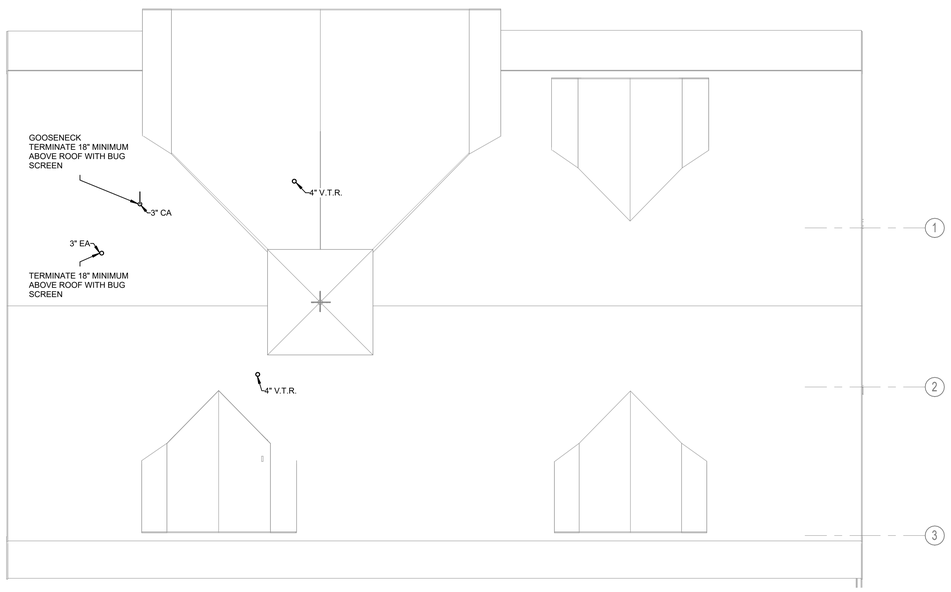
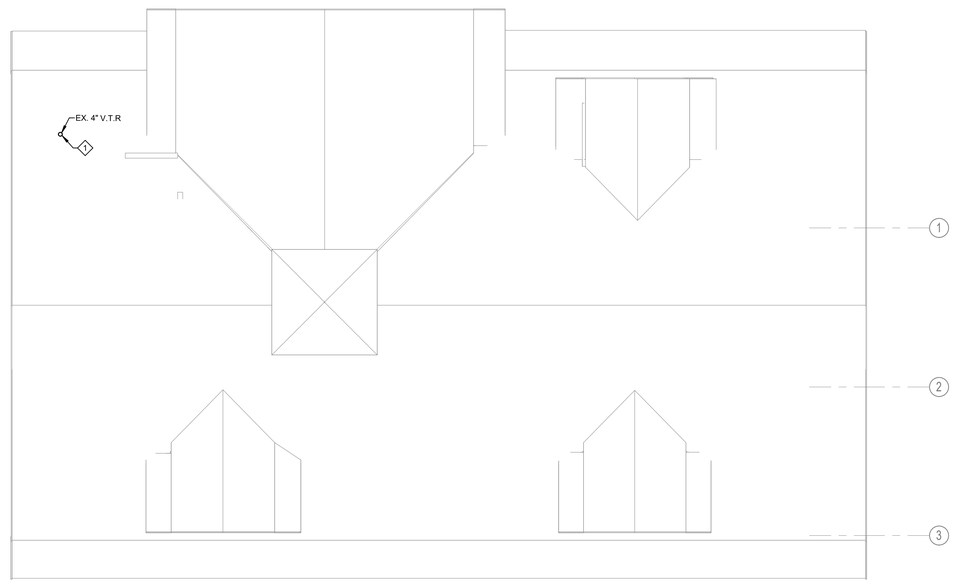
DEMOLITION ROOF PLAN NOTES

#	NOTE
1	REMOVE EXISTING VENT COMPLETELY.

NOTE: ALL PIPE ROOF PENTRATIONS SHALL BE BLACK COLOR.



5A **ROOF PLUMBING PLAN**
1/4" = 1'-0"



1A **DEMOLITION ROOF PLUMBING PLAN**
1/4" = 1'-0"

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Project No. 2021-036.GAH
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Produced AQS

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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3705 IN- 16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

ROOF PLUMBING PLAN

PR101.4

PR101.4_ROOF PLUMBING PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
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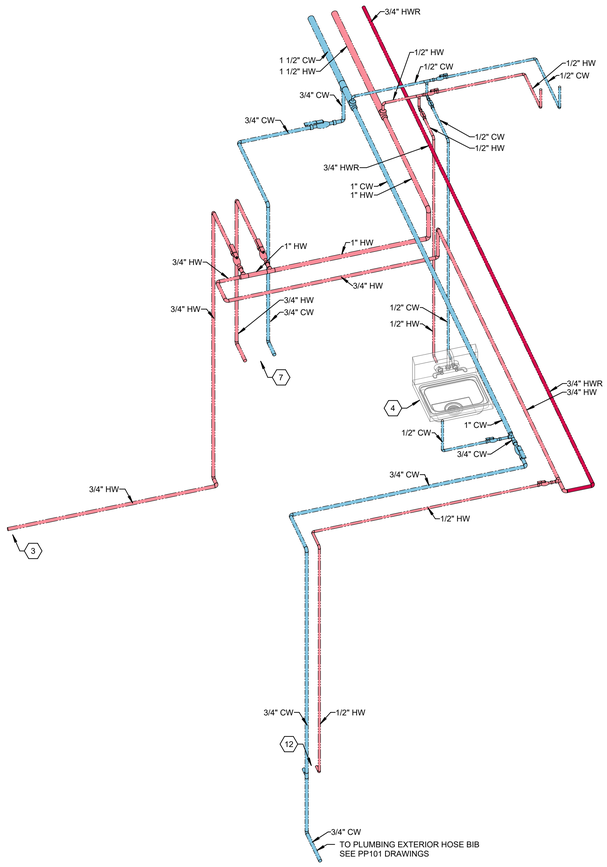
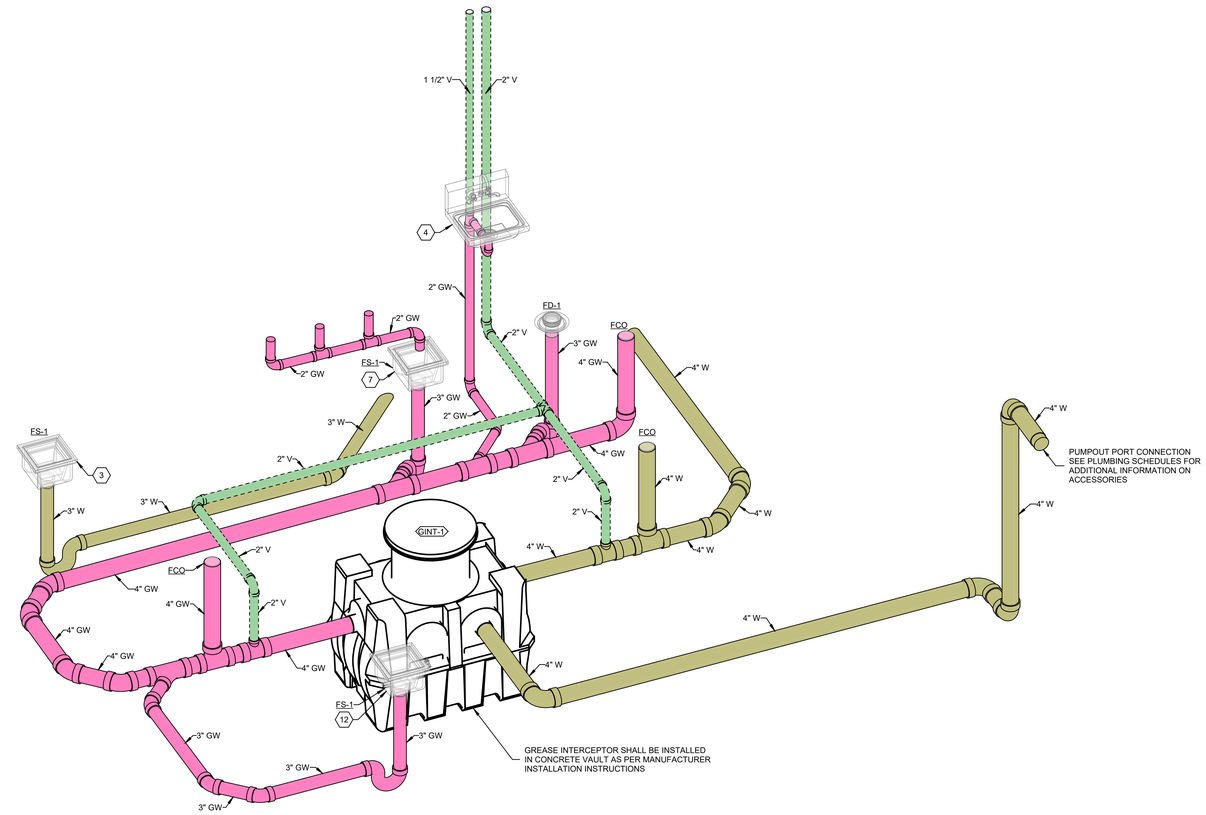


4C **ENLARGED KITCHEN DOMESTIC WATER ISOMETRIC**
NOT TO SCALE



2A **ENLARGED KITCHEN WASTE AND VENT ISOMETRIC**
NOT TO SCALE

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ENLARGED KITCHEN PIPING DIAGRAM

P-401.4

P-401_4_ENLARGED KITCHEN PIPING DIAGRAM
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
C:\Revit Local\2021-036.GAH_Brighton_F_20251231-ddh.rvt, [Brighton_F_2025_Angus.rvt]
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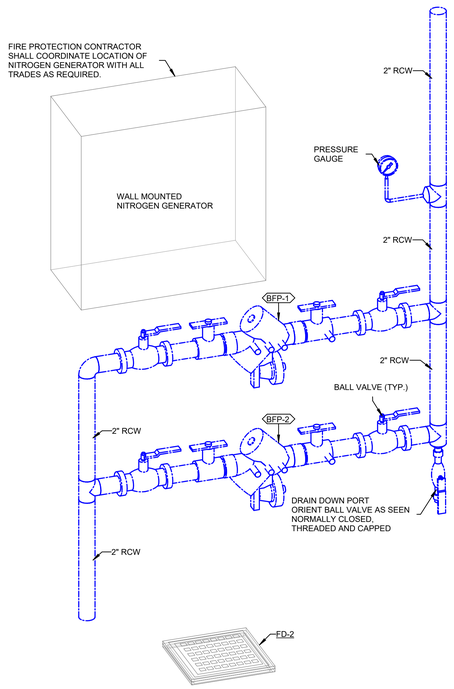
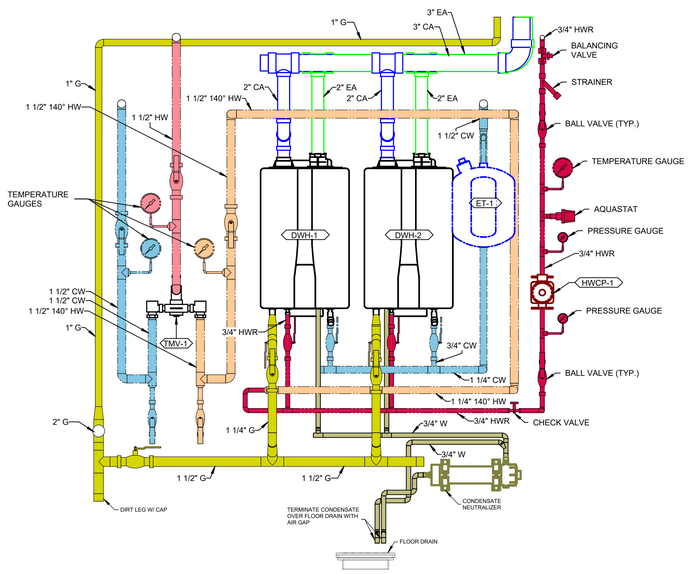
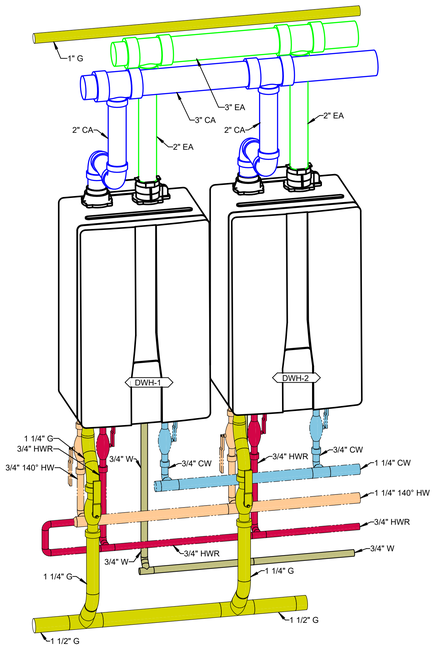


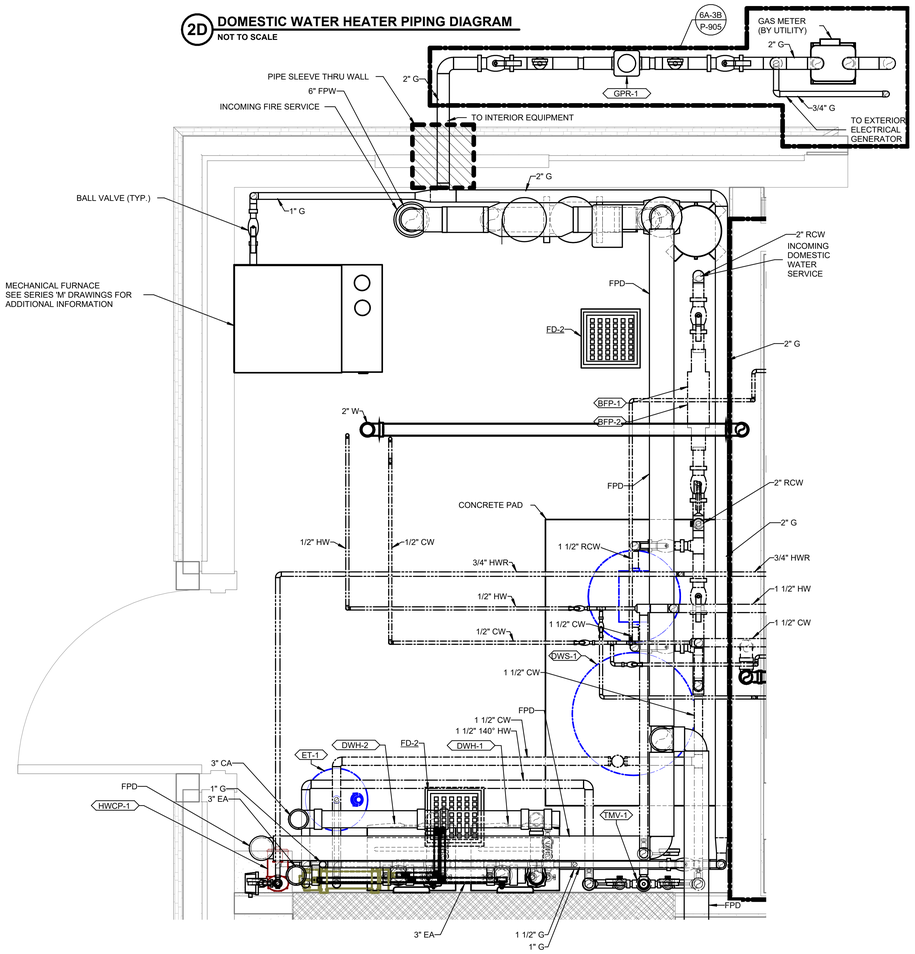
5D **INCOMING DOMESTIC WATER SERVICE DIAGRAM**
NOT TO SCALE



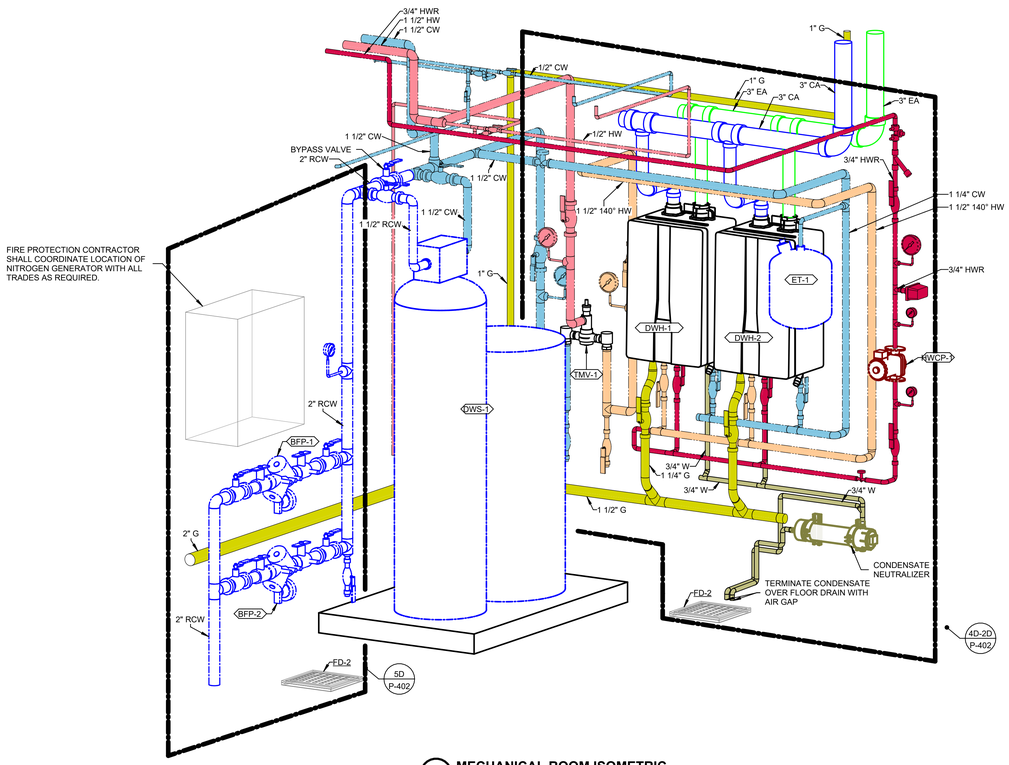
4D **DOMESTIC WATER HEATER DETAIL**
NOT TO SCALE



2D **DOMESTIC WATER HEATER PIPING DIAGRAM**
NOT TO SCALE



2A **MECHANICAL ROOM PLUMBING PLAN**
1" = 1'-0"



5A **MECHANICAL ROOM ISOMETRIC**
NOT TO SCALE

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HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

MECHANICAL ROOM DETAILS

P-402.4

P-402_4_MECHANICAL ROOM DETAILS
20-036 GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
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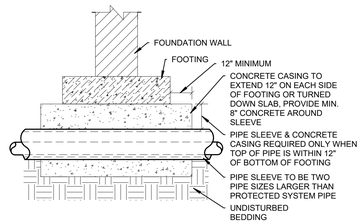
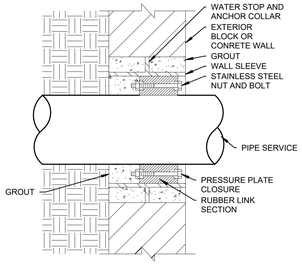
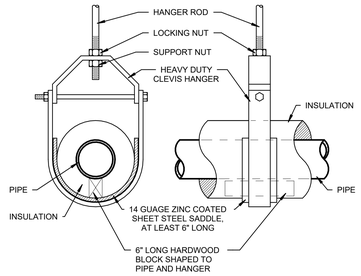


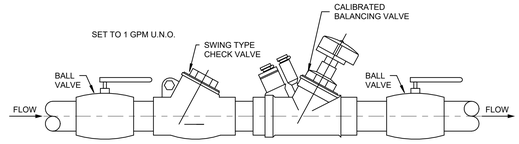
3E PIPE SLEEVE BELOW FOOTING DETAIL
NOT TO SCALE



2E PIPE SLEEVE WITH LINKSEAL THRU EXTERIOR WALL OR FOUNDATION WALL (BELOW GRADE) DETAIL
NOT TO SCALE



3C PIPE HANGER (6" & SMALLER) DETAIL
NOT TO SCALE



2C HOT WATER BALANCING VALVE STATION DETAIL
NOT TO SCALE

GAS PRESSURE REGULATORS (231123)

MARK	DESCRIPTION	INLET PRESSURE	OUTLET PRESSURE	TOTAL CONNECTED LOAD (BTU/H)	EQUIPMENT SERVED
GPR-1	GAS PRESSURE REGULATOR	2	10	575800	MECHANICAL FURNACE AND WATER HEATERS
GPR-2	GAS PRESSURE REGULATOR	2	10	216000	ELECTRICAL GENERATOR

EXPANSION TANKS

IDENTITY DATA				TANK VOLUME (GAL)	MAX. ACCEPT. FACTOR	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION			
ET-1	Amtrol	ST-12-C	DOMESTIC HOT WATER EXPANSION TANK	6.4	0.5	

DOMESTIC WATER PIPING SPECIALTIES SCHEDULE (221119)

IDENTITY DATA				FIXTURE CONNECTION	MOUNTING (FLOOR TO OUTLET)	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW		
HB-1	ZURN	#Z1341XL	HOSE BIBB	3/4"	24" A.F.F.	

MIXING, METERING, AND PRESSURE REDUCING VALVES (221119)

IDENTITY DATA						
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE	PRESSURE DROP	NOTES
BFP-1	ZURN WILKINS	#975XLS2 - 2"	REDUCED PRESSURE BACKFLOW PREVENTER	160 GPM	15.20 psi	
BFP-2	ZURN WILKINS	#975XLS2 - 2"	REDUCED PRESSURE BACKFLOW PREVENTER	160 GPM	15.20 psi	
BFP-3	WATTS	BV-240	Watts Drainage Products BV-240 cast iron backwater valve with gasketed cover, bronze seat and flapper, no hub connection, and epoxy coated steel access housing.			

GREASE INTERCEPTOR SCHEDULE

IDENTITY DATA				CAPACITY				
MARK	MANUFACTURER	MODEL	DESCRIPTION	LIQUID (GAL)	GREASE (GAL)	SOLIDS (GAL)	ACCESSORIES	NOTES
GINT-1	SCHIER PRODUCTS	GB-75	POLYETHYLENE INTERCEPTOR 75 GALLON	125	118	31	MANHOLE COVER P24-GI PUMPOUT PORT PP3	

PLUMBING PUMPS (221123.99)

IDENTITY DATA				PLUMBING		ELECTRICAL			
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE (GPM)	PUMP HEAD (TDH)	VOLTAGE	PHASE	RPM	HP	NOTES
HWCP-1	BELL AND GOSSETT	ECOCIRC XL N 20-35 #104450LF	120° DOMESTIC HOT WATER CIRCULATION PUMP	3	10	120	1	VARIABLE	1/12	

FUEL-FIRED, DOMESTIC WATER HEATERS

IDENTITY DATA					FLOW RATE		NATURAL GAS			INLET CONNECTIONS				OUTLET CONNECTIONS			ELECTRICAL		
MARK	MANUFACTURER	MODEL	DESCRIPTION	°F RISE	RATE (GPM)	MINIMUM (GPM)	BTU/H	MIN. PRESSURE (IN W.C.)	MAX. PRESSURE (INE W.C.)	CW	HWR	GAS	AIR INTAKE	HW	CONDENSATE	EXHAUST	VOLTAGE	PHASE	NOTES
DWH-1	Navien, Inc.	NPE-240A2	CONDENSING TANKLESS GAS-FIRED WATER HEATER	67 °F	5.6	0.5	199900	3.5 WC	10.5 WC	3/4"	3/4"	3/4"	2"	3/4"	1/2"	2"	120	1	
DWH-2	Navien, Inc.	NPE-240A2	CONDENSING TANKLESS GAS-FIRED WATER HEATER	67 °F	5.6	0.5	199900	3.5 WC	10.5 WC	3/4"	3/4"	3/4"	2"	3/4"	1/2"	2"	120	1	

DOMESTIC WATER SOFTENERS (223100)

SOFTENER				BRINE TANK			CONTINUOUS (EACH)		PEAK (EACH)		GRAINS OF CAPACITY			MAX DRAIN			
MARK	MANUFACTURER	MODEL	DESCRIPTION	DESCRIPTION	DIMENSIONS	SALT CAPACITY (LBS)	FLOW RATE (GPM)	PSI DROP	FLOW RATE (GPM)	PSI DROP	MEDIA (FT³)	15 LBS/FT³	10 LBS/FT³	5 LBS/FT³	FLOW (GPM)	VOLTAGE	PHASE	NOTES
DWS-1	AQUASYSTEMS	SERIES 2850 #500	SIMPLEX DOMESTIC WATER SOFTENER WITH BRINE TANK	BLOW MOLDED	24" X 50"	800.00	36 GPM	15.00 psi	49 GPM	25.00 psi	5.00 CF	150000.00 CF	125000.00 CF	100000.00 CF	7.00 CF	120 V	1	

SANITARY WASTE PIPING SPECIALTIES SCHEDULE (221319)

FIXTURE				W CONNECTION	ACCESSORIES	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION			
FD-1	J.R. SMITH	#2005YA-U-PB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	3"	TRAPGUARD BY PROSET, NO SUBSTITUTIONS	
FD-2	J.R. SMITH	#3200Y-14	DUCO CAST IRON BODY WITH DOME BOTTOM STRAINER, NICKEL BRONZE RIM AND GRATE WITH SQUARE CENTER HOLE	4"		
FS-1	ZURN	#Z1901-NH-2	CAST IRON BODY, PORCELAIN ENAMELED, 1/2 GRATE AND DOME STRAINER	4"		

COMMERCIAL AND RESIDENTIAL WATER CLOSETS SCHEDULE (224100, 224213.13)

FIXTURE				FLUSHOMETER				FIXTURE CONNECTION			ADA COMPLIANT	MOUNTING (FLOOR TO RIM)	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPF	CW	W	V			
WC-1	KOHLER	K-3817	FLOOR MOUNTED, AQUAPISTON CANISTER FLUSH VALVE, ACCESSIBLE WATER CLOSET	N/A	N/A	MANUAL	1.28	1"	3"	2"	Yes	FLOOR MOUNTED	

COMMERCIAL LAVATORY SCHEDULE (224216.13)

FIXTURE				TRIM				FIXTURE CONNECTION				ADA COMPLIANT	MOUNTING (FLOOR TO RIM)	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPM	CW	HW	W	V			
L-1	KOHLER	#K-2035-8	ADA WALL-HUNG, VITREOUS CHINA LAVATORY, 8" CENTERS	DELTA	#35896LF-OB	MANUAL	1.2	1/2"	1/2"	1 1/2"	1 1/2"	Yes	34"	
L-2	N/A	N/A	INTEGRAL SINK PROVIDED BY INTERIORS	DELTA	#35896LF-OB	MANUAL	1.2	1/2"	1/2"	1 1/2"	1 1/2"	Yes	COUNTER MOUNTED	

COMMERCIAL AND RESIDENTIAL SINKS (224100, 224216.16)

FIXTURE				TRIM				FIXTURE CONNECTION					ADA COMPLIANT	MOUNTING (FLOOR TO RIM)	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPM	CW	HW	W	V	STRAINER			
MB-1	ZURN	#Z1996-24	FLOOR MOUNTED MOP BASIN	CHICAGO FAUCET	#540-LDB975CP	MANUAL	2.2	3/4"	3/4"	3"	1 1/2"	GRID	Yes	FLOOR MOUNTED	
SK-1	ELKAY	#ELUHAD191645	SINGLE BOWL, UNDERMOUNT	CHICAGO FAUCET	#201-AGNBAE3XKABCP	MANUAL	2.2	1/2"	1/2"	2"	2"	GRID	Yes	COUNTER MOUNTED	

WATER HAMMER ARRESTER (221119)

MARK	IPS	F.U. RATING	J.R. SMITH NO.	WADE NO.	ZURN NO.	REMARKS
A	3/4"	1-11	5005	W-5	100	P.D.I. CERTIFIED
B	1"	12-32	5010	W-10	200	P.D.I. CERTIFIED
C	1"	33-60	5020	W-20	300	P.D.I. CERTIFIED
D	1"	61-113	5030	W-50	400	P.D.I. CERTIFIED
E	1"	114-154	5040	W-75	500	P.D.I. CERTIFIED

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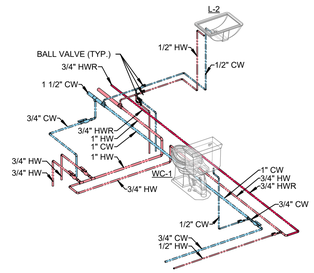
PLUMBING DETAILS AND SCHEDULES

P-501.4

PLOT: P_PLUMBING DETAILS AND SCHEDULES
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
C:\1_Revit Local\21-036.GAH_English_P_20220201-036.GAH_English_P_2022_wagnerA.rvt
11/7/2025 3:06:57 PM

PLUMBING FIXTURE ROUGH-IN LEGEND				
	FIXTURE CONNECTION			
	CW	HW	W	V
HB-1	3/4"			
FCO				
FD-1			3"	
FD-2			4"	
FS-1			4"	
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
HS-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-1	3/4"	3/4"	2"	
WC-1	1"		3"	2"
MB-1	3/4"	3/4"	3"	1 1/2"
SK-1	1/2"	1/2"	2"	2"



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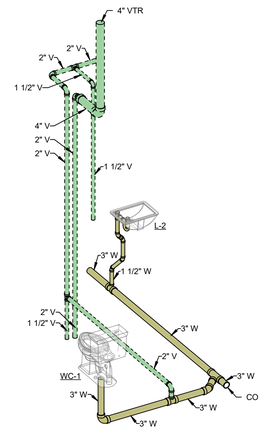
NOT TO SCALE



1C **SECOND FLOOR RR WASTE AND VENT ISOMETRIC**
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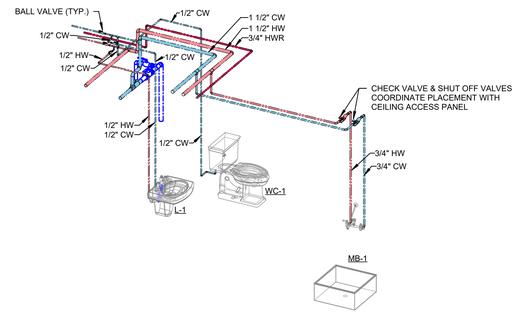
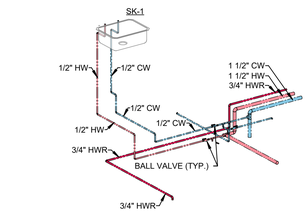
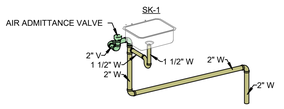


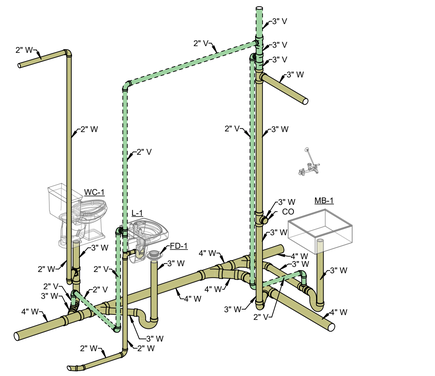
1B **FIRST FLOOR RR AND MOP BASIN DOMESTIC WATER ISOMETRIC**
NOT TO SCALE



3B **SECOND FLOOR SINK DOMESTIC WATER ISOMETRIC**
NOT TO SCALE



3A **SECOND FLOOR SINK WASTE AND VENT ISOMETRIC**
NOT TO SCALE



1A **FIRST FLOOR RR AND MOP BASIN WASTE AND VENT ISOMETRIC**
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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced AQS

SARAH KATHLEEN HEMPSTEAD
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STATE OF
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ARCHITECT

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#	Revision	Date

3705 IN- 16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

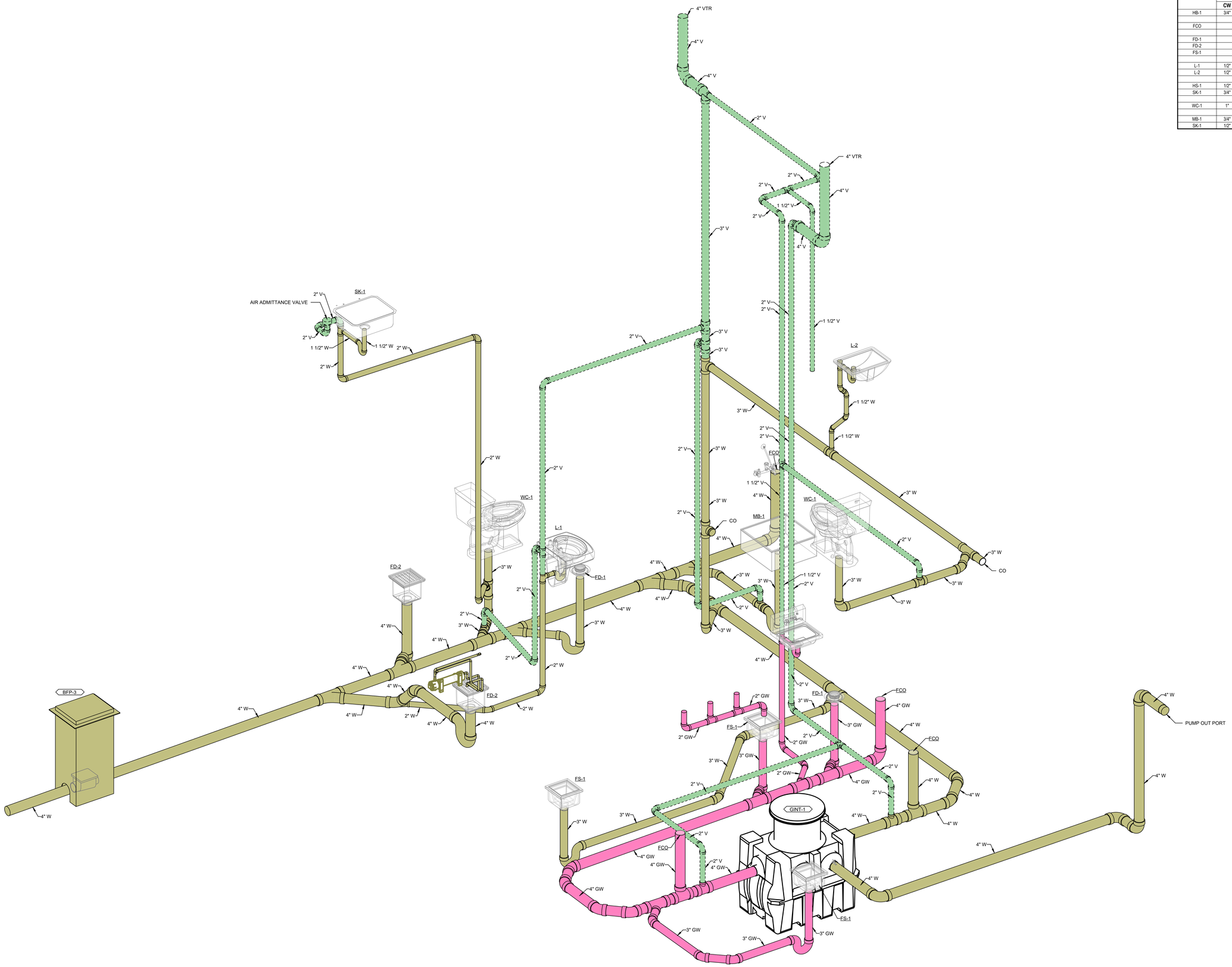
HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

PLUMBING ISOMETRIC

P-901.4

Plot: K_PLUMBING ISOMETRIC
20210361NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
C:\Revit Local\20-1036.GAH_Bkup(4)_2_20251201-1605.rvt, [Bkup(4)_2_2025... plotted on 1/8/2026 8:38 AM

PLUMBING FIXTURE ROUGH-IN LEGEND				
	FIXTURE CONNECTION			
	CW	HW	W	V
HB-1	3/4"			
FCO				
FD-1			3"	
FD-2			4"	
FS-1			4"	
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
HS-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-1	3/4"	3/4"	2"	
WC-1	1"		3"	2"
MB-1	3/4"	3/4"	3"	1 1/2"
SK-1	1/2"	1/2"	2"	2"



1A **OVERALL WASTE AND VENT ISOMETRIC**
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HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

OVERALL WASTE AND VENT ISOMETRIC

P-903.4

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2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
C:\Revit Local\2021-036.GAH_BID[BID_4_20250207-036.GAH_BID[BID_4_2025_anaguia.rvt
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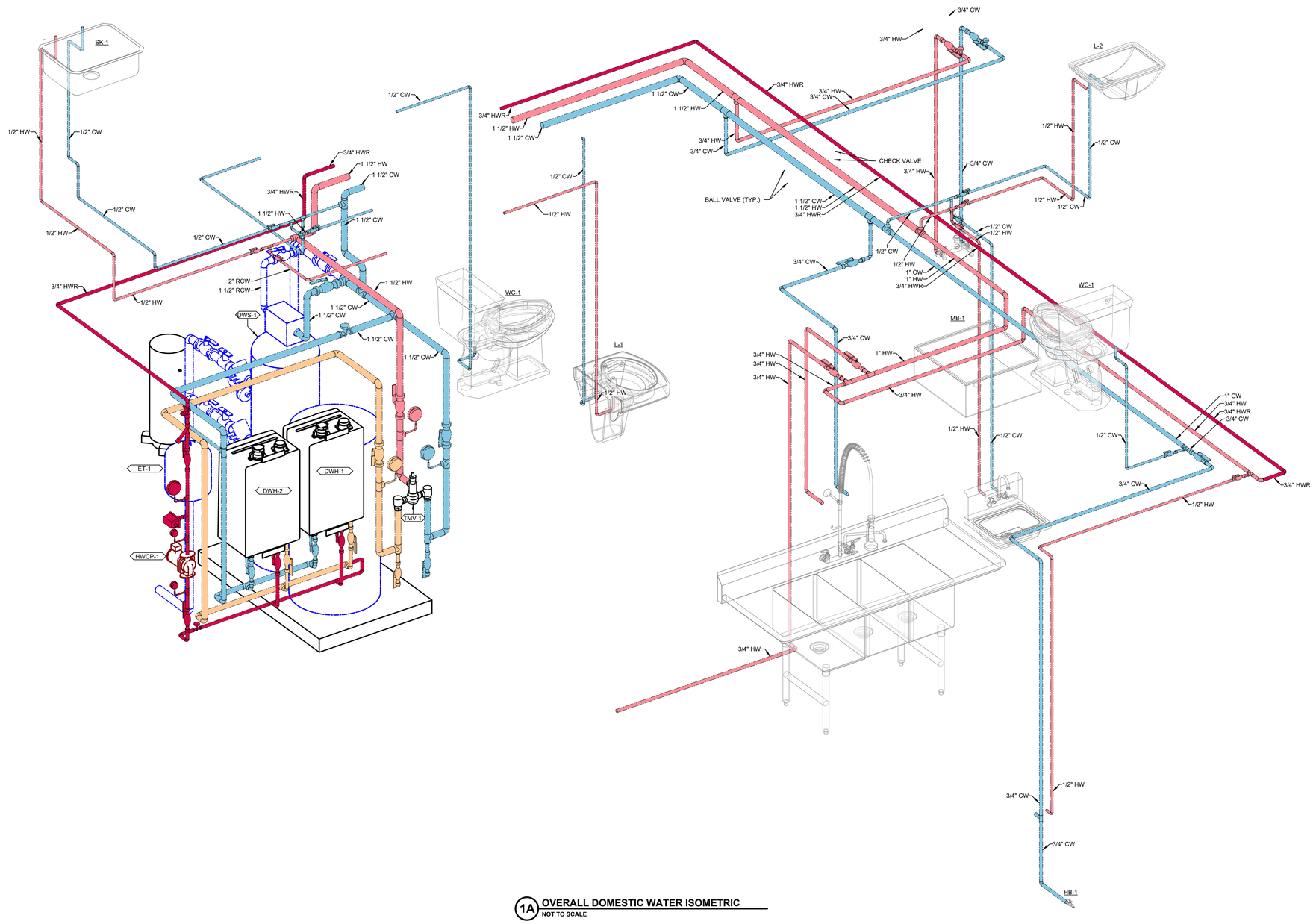

1A **OVERALL DOMESTIC WATER ISOMETRIC**
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HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

OVERALL DOMESTIC WATER ISOMETRIC

P-904.4

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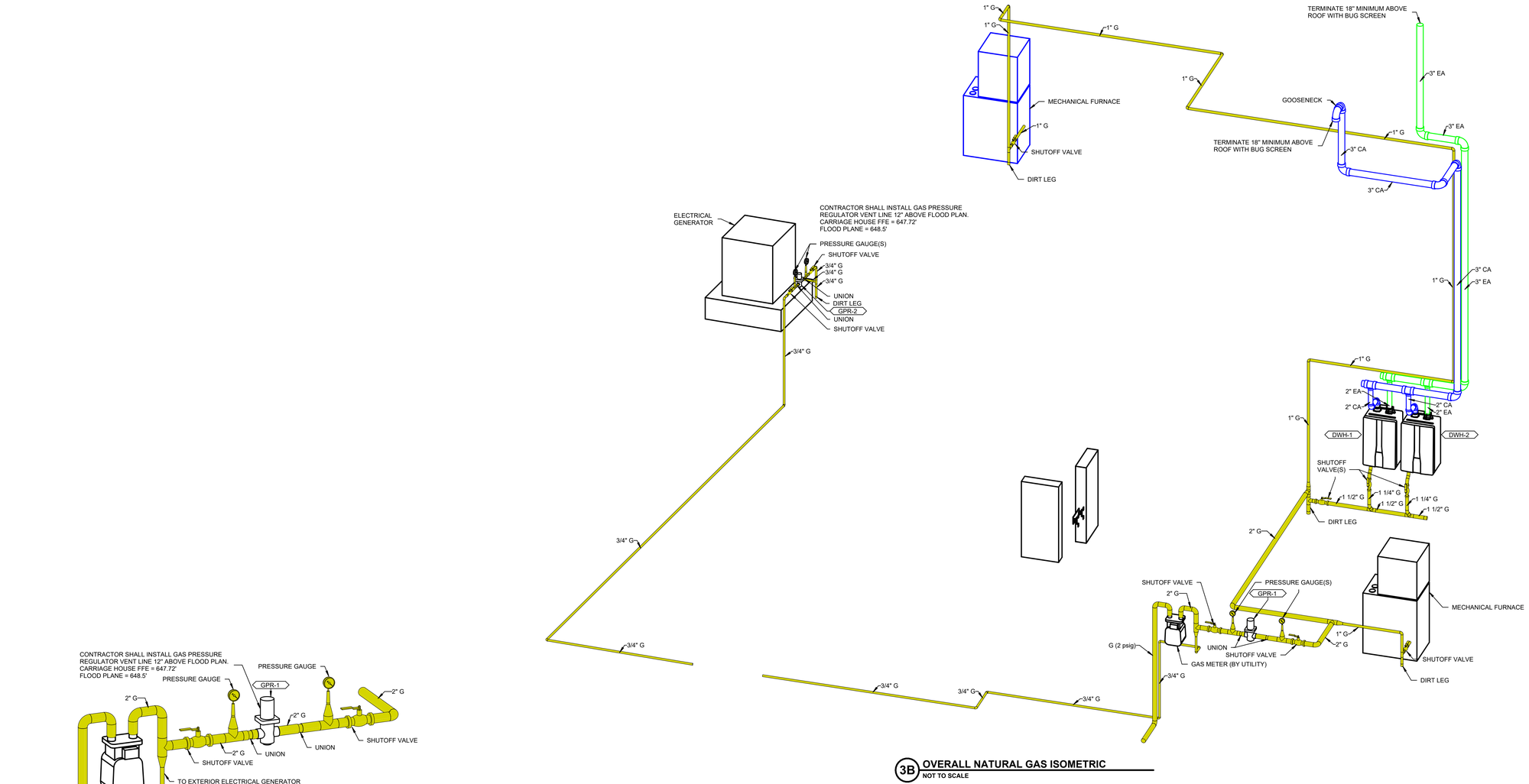
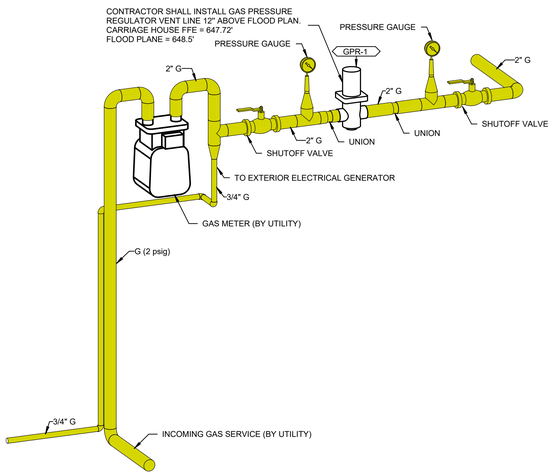
Author: Sarah Hempstead

PLUMBING RENOVATION NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING SANITARY SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.
3. ALL UNDERGROUND SANITARY OR STORM PIPING SHOWN TO BE ABANDONED IN PLACE SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL.
4. WHERE PLUMBING FIXTURE ROUGH-IN PIPING IS SHOWN TO BE ABANDONED IN WALLS OR BELOW FLOOR SLAB, ROUGH-INS SHALL BE REMOVED TO A POINT BEYOND THE FINISHED SURFACE AND CAPPED. PATCH SURFACE TO MATCH EXISTING FINISH.
5. IN AREAS WHERE A FULL REMODEL IS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL REMOVE ALL OVERHEAD PIPING AND HANGERS COMPLETE UNLESS OTHERWISE INDICATED.
6. WHERE SANITARY OR ACID VENT THROUGH ROOF IS SHOWN TO BE ABANDONED IN PLACE, CONTRACTOR SHALL PERMANENTLY CAP PIPE ABOVE AND BELOW ROOF FOR A WATER TIGHT SEAL.



3B **OVERALL NATURAL GAS ISOMETRIC**
NOT TO SCALE



6A **GAS METER PIPING DIAGRAM**
NOT TO SCALE

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

OVERALL NATURAL GAS ISOMETRIC

P-905.4

P-905_4_OVERALL NATURAL GAS ISOMETRIC
2021-036.GAH NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION_
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ABBREVIATIONS

A	AMPERE	FT	FEET; FOOT	OC	OVERCURRENT
AC	ALTERNATING CURRENT; ARMORED CABLE	FTL	FEED THROUGH LUGS	OD	OUTSIDE DIAMETER
AF	AMP SIZE OF CIRCUIT BREAKER FRAME/FUSED SWITCH	FURN	FURNISHED	OH	OVERHEAD
AFC	ABOVE FINISHED COUNTERTOP	FVNR	FULL VOLTAGE NON-REVERSING	OL	OVERLOAD
AFCI	ARC FAULT CIRCUIT INTERRUPTER				
AFF	ABOVE FINISHED FLOOR	G/GND	GROUND	P	POLE
AFG	ABOVE FINISHED GRADE	GA	GAUGE	PB	PULL BOX; PUSH BUTTON
AHU	AIR HANDLING UNIT	GALV	GALVANIZED	PC	PHOTOCELL; PLUMBING CONTRACTOR (DIVISION 22)
AIC	AMPERE INTERRUPTING CAPACITY	GC	GENERAL CONTRACTOR	PED	PEDESTAL
AL	ALUMINUM	GD	GARBAGE DISPOSAL	PF	POWER FACTOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GEN	GENERATOR	PH/Ø	PHASE
ASYM	ASYMMETRICAL	GFEP	GROUND FAULT EQUIPMENT PROTECTION	PIV	POST INDICATOR VALVE
AT	AMP TRIP SIZE CIRCUIT BREAKER/FUSED SWITCH	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PL	PILOT LIGHT
ATS	AUTOMATIC TRANSFER SWITCH			POS	POSITIVE (+)
AUX	AUXILIARY	H	HIGH	PRI	PRIMARY
AVG	AVERAGE	HD	HEAVY DUTY	PSF	POUNDS PER SQUARE FOOT
AWG	AMERICAN WIRE GAUGE	HDPE	HIGH-DENSITY POLYETHYLENE CONDUIT	PSI	POUNDS PER SQUARE INCH
		HOA	HAND-OFF-AUTO	PT	POTENTIAL TRANSFORMER
BATT	BATTERY	HORIZ	HORIZONTAL	PUH	PROPELLER UNIT HEATER
BCP	BRANCH CIRCUIT PANELBOARD	HP	HORSEPOWER	PVC	POLYVINYL CHLORIDE CONDUIT
BKR	BREAKER	HR	HR	PWR	POWER
BPS	BOLTED PRESSURE SWITCH	HT	HT		
		HTP	HEAT PUMP	QTY	QUANTITY
C	CONDUIT; CELSIUS	HTR	HEATER		
CAB	CABINET	HZ	HERTZ	R	RESISTANCE
CB	CIRCUIT BREAKER			RECEPT	RECEPTACLE
C/C	CENTER TO CENTER	ID	INSIDE DIAMETER	REF	REFERENCE
CD	CANDELA	IEEE	INSTIT. OF ELECTRICAL AND ELECTRONICS ENGINEERS	REFR	REFRIGERATOR
CF	CUBIC FEET	IG	ISOLATED GROUND	REQ'D	REQUIRED
CL	CENTERLINE	IMC	INTERMEDIATE METAL CONDUIT	RLA	RUNNING LOAD AMPS
CLG	CEILING	IMP	IMPEDANCE	RMC	RIGID METAL CONDUIT
CMU	CONCRETE MASONRY UNIT	IN	INCH	RM	ROOM
COL	COLUMN	INSUL	INSULATED; INSULATION	RT	RAINTIGHT
COMB	COMBINATION	INT	INTERIOR; INTERNAL	RTU	ROOF TOP UNIT
CONC	CONCRETE	INV EL	INVERTED ELEVATION	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
COND	CONDUCTOR				
CONN	CONNECTION	J	JOULE	SCCR	SHORT-CIRCUIT CURRENT RATING
CONT	CONTINUOUS; CONTINUED	JB	JUNCTION BOX	SCHED	SCHEDULE
CONST	CONSTRUCTION			SCR	SHORT CIRCUIT RATING
CP	CONTROL PANEL	K	THOUSAND	SEC	SECONDARY
CPT	CONTROL POWER TRANSFORMER	KCMIL	THOUSAND CIRCULAR MILS	SF	SUPPLY FAN
CT	CURRENT TRANSFORMER	KK	KIRK KEY	SFB	SUB-FEED CIRCUIT BREAKER
CU	COPPER; CONDENSING UNIT	KO	KNOCKOUT	SFL	SUB-FEED LUGS
CUH	CABINET UNIT HEATER	KP	KEYPAD	SN	SOLID NEUTRAL
CYL	CYLINDER	KV	KILOVOLTS	SP	SINGLE-POLE
		KVA	KILOVOLT-AMPERES	SPD	SURGE PROTECTION DEVICE
D	DEEP; DEPTH	KVAR	KILOVOLT-AMPERES REACTIVE	SPDT	SINGLE-POLE, DOUBLE-THROW
DB	DIRECT BURIED	KW	KILOWATTS	SPEC	SPECIFICATION
DC	DIRECT CURRENT	KWHR	KILOWATT-HOURS	SPST	SINGLE-POLE, SINGLE-THROW
DED	DEDICATED DEVICE ON INDIVIDUAL BRANCH CIRCUIT			SQ	SQUARE
DEMO	DEMOLISH; DEMOLITION	L	LENGTH; LONG	SQ FT	SQUARE FEET
DIA	DIAMETER	LA	LIGHTNING ARRESTOR	SQ IN	SQUARE INCH
DIAG	DIAGONAL	LB	POUND	SQ YD	SQUARE YARD
DISC	DISCONNECT	LCP	LIGHTING CONTROL RELAY PANEL	SS	STAINLESS STEEL
DISTR	DISTRIBUTION	LED	LIGHT EMITTING DIODE	S/S	START-STOP
DN	DOWN	LF	LINEAR FEET	ST	SHUNT TRIP
DPDT	DOUBLE-POLE, DOUBLE-THROW	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	STD	STANDARD
DPST	DOUBLE-POLE, SINGLE-THROW	LM	LUMEN	STP	SHIELDED TWISTED PAIR
DW	DISHWASHER	LOTO	LOCK-OUT TAG-OUT	SURF	SURFACE
DWG	DRAWING	LRA	LOCKED ROTOR AMPS	SW	SWITCH
		LSI	LONG-SHORT-INSTANTANEOUS	SWBD	SWITCHBOARD
EA	EACH	LSIG	LONG-SHORT-INSTANTANEOUS-GROUND FAULT	SYM	SYMMETRICAL
EC	ELECTRICAL CONTRACTOR; DIVISIONS 26-28	LT	LIGHT; LIQUIDTIGHT		
EF	EXHAUST FAN	LTG	LIGHTING	T	TEMPERATURE; TRANSFORMER
EGB	ELECTRICAL GROUND BAR	LV	LOW VOLTAGE	TB	TERMINAL BLOCK
EGC	ELECTRICAL GROUNDING CONDUCTOR			TC	TIME CLOCK
EHD	ELECTRIC HAND DRYER	MAN	MANUAL	TCC	TEMPERATURE CONTROL CONTRACTOR
ELEC	ELECTRICAL	MAT	MATERIAL	TCP	TEMPERATURE CONTROL PANEL
ELEV	ELEVATOR; ELEVATION	MAX	MAXIMUM	TD	TIME DELAY
EM	EMERGENCY	MC	MECH. CONTRACTOR (DIV. 23); METAL CLAD CABLE	TR	TAMPER-RESISTANT
EMT	ELECTRICAL METALLIC TUBING	MCA	MINIMUM CIRCUIT AMPACITY	TS	TAMPER SWITCH
ENCL	ENCLOSURE	MCB	MAIN CIRCUIT BREAKER	TYP	TYPICAL
ENG	ENGINE	MCC	MOTOR CONTROL CENTER		
EO	ELECTRICALLY OPERATED	MCCB	MOLDED CASE CIRCUIT BREAKER	UC	UNDERCOUNTER; UNDERCABINET
EPO	EMERGENCY POWER OFF	MDP	MAIN DISTRIBUTION PANELBOARD	UG	UNDERGROUND
EQ	EQUAL	MECH	MECHANICAL	UL	UNDERWRITERS LABORATORY
EQUIP	EQUIPMENT	MED	MEDIUM	UNFIN	UNFINISHED
ERM	ENERGY REDUCTION MAINTENANCE SWITCH	MEGB	MAIN ELECTRICAL GROUND BAR	UNO	UNLESS NOTED OTHERWISE
EST	ESTIMATED	MFG	MANUFACTURING	UTIL	UTILITY
ETR	EXISTING TO REMAIN	MFR	MANUFACTURER	UTP	UNSHIELDED TWISTED PAIR
EWC	ELECTRIC WATER COOLER	MFS	MAIN FUSED SWITCH	UV	UNIT VENTILATOR
EWH	ELECTRIC WATER HEATER	MH	MANHOLE; MOUNTING HEIGHT		
EXP	EXPOSED	MIN	MINIMUM	V	VOLT
EX	EXISTING	MISC	MISCELLANEOUS	VA	VOLT AMPERES
EXT	EXTERIOR	MLO	MAIN LUGS ONLY	VAR	VOLT AMPERES REACTIVE
		MOCP	MAXIMUM OVERCURRENT PROTECTION	VERT	VERTICAL
F	FUSED; FAHRENHEIT	MSB	MAIN SWITCHBOARD	VFD	VARIABLE FREQUENCY DRIVE
FA	FIRE ALARM	MTD	MOUNTED	VG	VANDAL GUARD
FAA	FIRE ALARM ANNUNCIATOR	MTG	MOUNTING	VIF	VERIFY IN FIELD
FACU	FIRE ALARM CONTROL UNIT	MTS	MANUAL TRANSFER SWITCH	VM	VENDING MACHINE
FB	FLOOR BOX	MV	MEDIUM VOLTAGE	VP	VANDAL PROOF
FC	FOOT-CANDLE	MVA	MEGAVOLT AMPERES	VR	VANDAL RESISTANT
FCU	FAN COIL UNIT	MVAR	MEGAVOLT AMPERES REACTIVE	VUV	VERTICAL UNIT VENTILATOR
FD	FUSED DISCONNECT	MW	MEGAWATTS; MICROWAVE OVEN		
FDN	FOUNDATION			W	WIDE; WIRE; WATT
FDR	FEEDER	N	NEUTRAL	W/	WITH
FIN	FINISHED	N/A	NOT APPLICABLE	W/O	WITHOUT
FIXT	FIXTURE	NC	NORMALLY CLOSED	WG	WIRE GUARD
FLA	FULL LOAD AMPS	NEG	NEGATIVE (-)	WP	WEATHERPROOF
FLEX	FLEXIBLE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	WT	WATERTIGHT; WEIGHT
FLR	FLOOR	NF	NON-FUSED DISCONNECT SWITCH		
FM	FACTORY MUTUAL	NIC	NOT IN CONTRACT	XFER	TRANSFER
FMC	FLEXIBLE METAL CONDUIT	NL	NIGHT LIGHT	XFMR	TRANSFORMER
FPB	FAN POWERED BOX	NM	NON-METALLIC SHEATHED CABLE		
FS	FLOW SWITCH	NO	NORMALLY OPEN; NUMBER	Y	WYE
FTL	FEED THROUGH LUGS	NTS	NOT TO SCALE		

ELECTRICAL LEGEND & SYMBOLS

LIGHTING

SUBSCRIPTS FOR LIGHTING FIXTURES INDICATE THE FOLLOWING, U.O.N.
NL - NIGHT LIGHT, PANEL SWITCHED, U.O.N.

- LIGHT FIXTURE
- TYPE AS INDICATED

- WALL MOUNTED FIXTURE
- TYPE AS INDICATED

- LIGHTING FIXTURE
- TYPE AS INDICATED

- POLE MOUNTED LIGHT FIXTURE
- TYPE AS INDICATED

- TRACK AND TRACK LIGHT FIXTURE

- EMERGENCY BATTERY WALL PACK
- TYPE AS INDICATED

- SHADING INDICATES EMERGENCY FIXTURE CONNECTED TO BATTERY INVERTER OR GENERATOR
- CONNECT BATTERY INVERTER TO UNSWITCHED SOURCE IN ADDITION TO SWITCHING INDICATED

- EXIT SIGN
- DIRECTIONAL ARROWS AS INDICATED
- SHADING INDICATES ILLUMINATED FACE
- CONNECT TO UNSWITCHED BRANCH CIRCUIT INDICATED
- END / WALL / CEILING

POWER DISTRIBUTION

- POWER DISTRIBUTION PANELBOARD
- 480Y / 277V; 3Ø, 4W
- FLOOR / SURFACE

- POWER DISTRIBUTION PANELBOARD
- 208Y / 120V; 3Ø, 4W
- FLOOR / SURFACE

- BRANCH CIRCUIT PANELBOARD
- 208Y/120V OR 480Y/277V; 3Ø, 4W
- FLUSH / SURFACE

- TERMINAL CABINET, TYPE AS NOTED ON DRAWINGS
- FLUSH / SURFACE

- DRY- TYPE TRANSFORMER, RATING AS INDICATED
- HOUSEKEEPING PAD

MCB

- SWITCHBOARD W/MAIN CIRCUIT BREAKER SECTION
- HOUSEKEEPING PAD

ATS

- AUTOMATIC TRANSFER SWITCH

- WORKING CLEARANCE ABOUT ELECTRICAL EQUIPMENT

MEMH

- ELECTRIC MANHOLE

- GROUND ROD

M

- MOTOR - "M" INDICATES HORSEPOWER

- HEAVY-DUTY, NON-FUSED DISCONNECT SWITCH (DS-#)

- HEAVY-DUTY, FUSED DISCONNECT SWITCH (DS-#)

- COMBINATION MOTOR STARTER AND DISCONNECT SWITCH (MS-#)

- VARIABLE FREQUENCY DRIVE (MS-#)

$MS-#

- FRACTIONAL HOURSEPOWER MANUAL CONTROLLER WITH THERMAL OVERLOADS (MS-#)

- EMERGENCY POWER OFF BUTTON

- PUSH BUTTON CONTROL STATION

CONDUIT & FEEDER

- UNDERGROUND ELECTRICAL SERVICE

- OVERHEAD ELECTRICAL SERVICE

- CONDUIT - TURNED UP

- CONDUIT - TURNED DOWN

- HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED

- GROUND CONDUCTOR

- PHASE CONDUCTOR

- NEUTRAL CONDUCTOR

- ONE-LINE DIAGRAM
- EXISTING FEEDER & CONDUIT

- ONE-LINE DIAGRAM
- DEMOLISHED FEEDER & CONDUIT

- ONE-LINE DIAGRAM
- NEW (NORMAL) FEEDER & CONDUIT

- ONE-LINE DIAGRAM
- NEW (EMERGENCY) FEEDER & CONDUIT

F###

- ONE-LINE DIAGRAM & FLOOR PLANS
- NEW FEEDER & CONDUIT SIZE
- REFER TO 'FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)' OR 'FEEDER SCHEDULE (ALUMINUM)' BASED ON SPECIFICATIONS AND PROVIDE BOTH FEEDER AND CONDUIT SIZE INDICATED

WIRING DEVICES

SUBSCRIPTS FOR RECEPTACLES, JUNCTION BOXES AND OTHER DEVICES INDICATE THE FOLLOWING, U.O.N:

F - FLUSH IN FLOOR
GFCI - GROUND FAULT CIRCUIT INTERRUPTER
H - HORIZONTALLY MOUNTED
IG - ISOLATED GROUND
L - LOCKING TYPE
TR - TAMPER RESISTANT
S - SURFACE MOUNTED
WP - WEATHERPROOF IN-USE
X - MOUNTED IN EXISTING OUTLET BOX

- SIMPLEX RECEPTACLE
- NEMA 5-20R, 125V, 20A

- DUPLEX RECEPTACLE
- NEMA 5-20R,125V, 20A

- DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE
- NEMA 5-20R,125V, 20A

- DUPLEX RECEPTACLE
- EMERGENCY CIRCUIT
- NEMA 5-20R, 125V, 20A

- DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE
- EMERGENCY CIRCUIT
- NEMA 5-20R, 125V, 20A

- DUPLEX RECEPTACLE
- SPLIT-WIRE
- NEMA 5-20R, 125V, 20A

HALF CONTROLLED / FULLY CONTROLLED

- DUPLEX RECEPTACLE
- PLUG-LOAD CONTROLLED
- NEMA 5-20R, 125V, 20A

HALF CONTROLLED / FULLY CONTROLLED

- DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE
- PLUG-LOAD CONTROLLED
- NEMA 5-20R, 125V, 20A

- SPECIAL RECEPTACLE
- NEMA CONFIGURATION AS INDICATED ON DRAWING

- JUNCTION BOX

- DIRECT CONNECTION TO EQUIPMENT

PB

- PULLBOX
- PROVIDE PULLBOXES INDICATED AS A MINIMUM
- PROVIDE ADDITIONAL PULLBOXES, SIZED PER NEC, AS REQUIRED

- FLUSH JUNCTION BOX WITH FURNITURE FEED ADAPTING CONNECTOR MOUNTED AT 6" A.F.F.

- SURFACE-MOUNTED RACEWAY
- RECEPTACLES IN LOCATIONS INDICATED

- WIREWAY
- WALL MOUNTED U.O.N.

FB

- FLOOR BOX

$

- SINGLE POLE SWITCH

$3

- THREE-WAY SWITCH

$4

- FOUR-WAY SWITCH

$P

- SINGLE POLE SWITCH W/ PILOT LIGHT

$3P

- THREE-WAY SWITCH WITH PILOT LIGHT

$K

- KEY OPERATED SINGLE POLE SWITCH

$3K

- KEY OPERATED THREE-WAY SWITCH

GENERAL ROUGH-IN MOUNTING HEIGHT NOTES

#	NOTES
A	COMPLETE COMPLIANCE WITH ALL ASPECTS OF ADA STANDARDS FOR ACCESSIBLE DESIGN AND ICC/ANSI A117.1 IS REQUIRED OF ALL PROJECTS AND ACTIVITIES.
B	MOUNTING HEIGHTS INDICATED ARE FOR TYPICAL DEVICES, UNLESS NOTED OR SPECIFIED OTHERWISE.
C	COORDINATE MOUNTING HEIGHTS OF ANY DEVICES WHICH ARE NOT INDICATED BY ARCHITECT OR AND/OR ENGINEER.
D	REFERENCE DIVISIONS 8, 10, 14, 22, 23, AND 27 FOR ADDITIONAL MOUNTING HEIGHTS.

MOUNTING HEIGHTS

SYMBOL	MOUNTING HEIGHT ABOVE FINISHED FLOOR (U.O.N.)
	• +18" TO CENTER OF RECEPTACLE
	• +6" ABOVE TOP OF COUNTERTOP TO BOTTOM OF RECEPTACLE
	• +18" TO CENTER OF RECEPTACLE
	• +6" ABOVE TOP OF COUNTERTOP TO BOTTOM OF RECEPTACLE
	• FLUSH TO CEILING
SO1, SO2, SO3, $ 3, 4, P, 3P, K, 3K	• +46" TO CENTER OF LIGHT SWITCH / CONTROLS
D1, D2, D3, DMX D	• +46" TO CENTER OF DIMMER / CONTROLS
	• COORDINATE MOUNTING HEIGHT WITH EQUIPMENT IF NOT INDICATED ON DRAWING
	• +46" TO CENTER OF EMERGENCY SHUT-OFF
	• +80" TO BOTTOM OF WALL MOUNTED FIRE ALARM DEVICE
M	• +46" TO CENTER OF MANUAL PULL STATION
	• REFER TO SPECIFICATIONS AND 'GENERAL SYMBOLS & ABBREVIATIONS NOTES (ALL DRAWINGS)'
	• +90" TO TOP OF POWER DISTRIBUTION PANELBOARD'S TRIM
	• +72" TO TOP OF PANELBOARD'S TRIM
	• +72" TO TOP OF EQUIPMENT
	• +72" TO TOP OF EQUIPMENT
$MS	• +46" TO CENTER OF MOTOR STARTER TOGGLE SWITCH

LIGHTING CONTROL DEVICES

SYMBOL	MOUNTING	DIMMING TYPE	OCCUPANCY SENSOR TYPE	SWITCH/ BUTTONS	CONTROL DESCRIPTION
D	WALL	0-10V	N/A	(1)	• (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL)/OFF • (1) MANUAL LIGHT LEVEL WITH SLIDER
DDS	WALL	0-10V	DUAL TECH.	(1)	• (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL)/OFF • (1) MANUAL LIGHT LEVEL WITH SLIDER • MANUAL ON / AUTO OFF
DDL	WALL	LINE VOLT.	N/A	(1)	• (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL)/OFF • (1) MANUAL LIGHT LEVEL WITH SLIDER
DDMX	WALL	DMX	N/A	MULTI.	• DMX COLOR CHANGING CONTROLLER • NICOLAUDIE STICK-CU4
$OS1	WALL	N/A	DUAL TECH.	(1)	• (1) MANUAL SWITCH ON/OFF • MANUAL ON / AUTO OFF
$OS2	WALL	N/A	DUAL TECH.	(2)	• (2) MANUAL SWITCH ON/OFF • MANUAL ON / AUTO OFF
$OS3	WALL	N/A	DUAL TECH.	(1)	• (1) MANUAL SWITCH ON/OFF • AUTO ON / AUTO OFF
OS1	CEILING	N/A	DUAL TECH.	N/A	• MANUAL CONTROLS & AUTO-ON / AUTO-OFF • 1000 SQFT COVERAGE • TWO RELAYS IN POWER PACK
OS2	CEILING	N/A	DUAL TECH.	N/A	• AUTO-ON / AUTO-OFF ONLY • 1000 SQFT COVERAGE • TWO RELAYS IN POWER PACK
OSP	CEILING	N/A	DUAL TECH.	N/A	• MANUAL CONTROLS & AUTO-ON / AUTO-OFF • 1000 SQFT COVERAGE • TWO RELAYS IN POWER PACK • PLUG-LOAD CONTROL OF RECEPTACLES INDICATED IN ROOM, U.O.N.
HB	CEILING	N/A	PIR	N/A	• MANUAL CONTROLS & AUTO-ON / AUTO-OFF • TWO RELAYS IN POWER PACK • HIGHBAY COVERAGE
DH	CEILING	N/A	N/A	N/A	• DAY-LIGHT HARVESTING CONTROLLER W/AUTO DIMMING

FIRE ALARM SYSTEM

SUBSCRIPTS FOR FIRE ALARM SYSTEM DEVICES INDICATE THE FOLLOWING, U.O.N:

S - SURFACE MOUNTED
WP - WEATHERPROOF
X - MOUNTED IN EXISTING OUTLET BOX

FACU FACU
- FIRE ALARM CONTROL UNIT
- FLUSH / SURFACE

RACU RACU
- REMOTE FIRE ALARM CONTROL UNIT
- FLUSH / SURFACE

FAA FAA
- FIRE ALARM ANNUNCIATOR UNIT
- FLUSH / SURFACE

M
- MANUAL PULL STATION

S S
- SPEAKER
- WALL / CEILING

S S
- SPEAKER/STROBE
- WALL / CEILING

H H
- HORN
- WALL / CEILING

H H
- HORN/STROBE
- WALL / CEILING

V V
- VISUAL STROBE
- WALL / CEILING

B
- BELL WITH VISUAL INDICATOR
- WALL

DS
- SMOKE DETECTOR
- CEILING

DR
- HEAT DETECTOR
- CEILING

DSR
- COMBINATION SMOKE / HEAT DETECTOR
- CEILING

DS
- DUCT DETECTOR - SUPPLY DUCT

DR
- DUCT DETECTOR - RETURN DUCT

D
- DOOR HOLD RELEASE DEVICE
- SUPPLIED BY DIVISION 8

AR
- ADDRESSABLE RELAY MODULE FOR CONTROL / MONITORING

TS
- SPRINKLER SYSTEM TAMPER SWITCH

FS
- SPRINKLER SYSTEM FLOW SWITCH

PS
- SPRINKLER SYSTEM PRESSURE SWITCH

P
- POST INDICATOR VALVE

PANELBOARD NAMING

BRANCH PANELBOARDS

1 2 A 1
- 1 — SEQUENTIAL PANEL NUMBER
- 2 — FLOOR PLAN UNIT: A - UNIT A; B - UNIT B
- A — VOLTAGE: 2 - 208Y/120V; 4 - 480Y/277V
- 1 — FLOOR NUMBER: B - BASEMENT; 1 - 1ST FLOOR; 2 - 2ND FLOOR

POWER DISTRIBUTION PANELBOARDS

1 2 A DP 1
- 1 — SEQUENTIAL PANEL NUMBER "DISTRIBUTION PANELBOARD"
- 2 — FLOOR PLAN UNIT: A - UNIT A; B - UNIT B
- A — VOLTAGE: 2 - 208Y/120V; 4 - 480Y/277V
- 1 — FLOOR NUMBER: B - BASEMENT; 1 - 1ST FLOOR; 2 - 2ND FLOOR

ANNOTATION SYMBOLS

PANEL-CKT	• CIRCUIT TAG
PANEL-CKT	• ROOM CIRCUIT TAG

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Project Date 01.08.2026
Produced SW

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Sarah K Hempstead

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#	Revision	Date

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SYMBOLS & ABBREVIATIONS

E-001.4

E-001_A_SYMBOLS & ABBREVIATIONS
2021-036 Case: NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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MAXIMUM BRANCH CIRCUIT CONDUCTOR LENGTHS (FEET)

CONDUCTOR SIZE	SINGLE PHASE BRANCH CIRCUIT BREAKER SIZE							
	120 VOLT		208 VOLT		277 VOLT		480 VOLT	
	20A-1P	30A-1P	20A-2P	30A-2P	20A-1P	30A-1P	20A-2P	30A-2P
#12	55	N/A	100	N/A	135	N/A	230	N/A
#10	95	65	165	110	220	145	385	255
#8	145	95	255	170	340	225	590	390
#6	230	150	400	265	535	355	925	615
#4	355	235	620	415	825	550	1435	955
#3	440	290	760	505	1015	675	1755	1170
#2	540	360	935	625	1250	830	2165	1440
#1	660	440	1145	765	1525	1020	2650	1765

CONDUCTOR SIZE	THREE PHASE BRANCH CIRCUIT BREAKER SIZE			
	208 VOLT		480 VOLT	
	20A-3P	30A-3P	20A-3P	30A-3P
#12	115	N/A	270	N/A
#10	190	125	445	295
#8	295	195	680	455
#6	460	305	1070	710
#4	715	475	1655	1105
#3	880	585	2030	1350
#2	1080	720	2500	1665
#1	1325	880	3060	2040

NOTES:
1. MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%. ADJUST CONDUCTOR SIZE PER MAXIMUM BRANCH CIRCUIT LENGTH.
2. BRANCH CIRCUIT LENGTHS ARE BASED ON CONDUCTOR DISTANCE FROM PANELBOARD TO LOAD.
3. PROVIDE JUNCTION BOX TO MAKE WIRE TRANSITION FOR FINAL TERMINATION ON DEVICE, FIXTURE, EQUIPMENT, ETC.
4. CALCULATIONS BASED ON COPPER CONDUCTORS, 80% LOADING OF BRANCH CIRCUIT BREAKER, AND 0.95 POWER FACTOR.

FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)

FEEDER/BRANCH CIRCUIT LABEL	CONDUCTOR SIZE PER CONDUIT		CONDUIT SIZE & QUANTITY					
	PHASE & NEUTRAL	EQUIP/SERV GROUND	1P,1N,1G 2P,1G	2P,1N,1G 3P,1G	3P,1N,1G 3P,1N	3P,2N,1G	3P,3N,1G	3P,1N,2G
F20	12	12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F30	10	10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F40	8	10	3/4"	3/4"	1"	1"	1"	1"
F50	6	10	1"	1"	1"	1-1/4"	1-1/4"	1"
F60	4	10	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
F70	4	8	1"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/4"
F80	3	8	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/4"
F90	2	8	1"	1-1/4"	1-1/2"	1-1/2	2"	1-1/2"
F100	1	8	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"
F110	1	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F125	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F150	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F175	2/0	6	1-1/2"	2"	2"	2-1/2"	2-1/2"	2"
F200	3/0	6	1-1/2"	2"	2"	2-1/2"	3"	2-1/2"
F225	4/0	4	2"	2"	2-1/2"	3"		2-1/2"
F250	250	4	2"	2-1/2"	3"	3"		3"
F300	350	4	2"	2-1/2"	3"	3-1/2"		3"
F350	500	3	2-1/2"	3"	3-1/2"	4"		3-1/2"
F400	3/0	3	(2) 1-1/2"	(2) 2"	(2) 2-1/2"	(2) 2-1/2"		(2) 2-1/2"
F450	4/0	2	(2) 2"	(2) 2"	(2) 2-1/2"	(2) 3"		(2) 2-1/2"
F500	250	2	(2) 2"	(2) 2-1/2"	(2) 3"	(2) 3"		(2) 3"
F600	350	1	(2) 2-1/2"	(2) 3"	(2) 3"	(2) 3-1/2"		(2) 3"
F700	500	1/0	(2) 2-1/2"	(2) 3"	(2) 3-1/2"	(2) 4"		(2) 3-1/2"
F800	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		(3) 3"
F900	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		
F1000	500	2/0	(3) 2-1/2"	(3) 3"	(3) 3-1/2"	(3) 4"		
F1200	350	3/0	(4) 2-1/2"	(4) 3"	(4) 3"	(4) 3-1/2"		
F1600	500	4/0	(5) 3"	(5) 3"	(5) 3-1/2"	(5) 4"		
F2000	500	250	(6) 3"	(6) 3"	(6) 3-1/2"	(6) 4"		
F2500	500	350	(7) 4"	(7) 3-1/2"	(7) 3-1/2"	(7) 4"		
F3000	500	500	(8) 4"		(8) 4"	(8) 4"		

GENERAL FEEDER & BRANCH CIRCUIT SCHEDULE NOTES (COPPER)

#	NOTES
A	PROVIDE BOTH NEW CONDUCTORS AND NEW CONDUIT FOR ALL FEEDERS AND BRANCH CIRCUITS INDICATED WITH A 'FEEDER/BRANCH CIRCUIT LABEL'. DO NOT REUSE ANY EXISTING CONDUCTORS AND/OR CONDUIT UNLESS SPECIFICALLY NOTED ON DRAWINGS, ONE-LINE DIAGRAM, ETC.
B	REFER TO SPECIFICATIONS FOR MINIMUM CONDUCTOR AND CONDUIT SIZES.
C	REFER TO SPECIFICATIONS FOR TYPE OF RACEWAY.
D	FOR ALL NEW AND EXISTING CONDUIT INSTALLATIONS, REFER TO THE NEC FOR CONDUIT AND TUBING FILL TABLES. IN LOCATIONS WHERE EXISTING CONDUIT IS PERMITTED TO BE REUSED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDUIT SIZE MEETS THE NEC CONDUIT AND FILL TABLES PRIOR TO BID. IF THE CONDUIT DOES NOT MEET THE NEC FILL TABLES, REPLACE THE CONDUIT FOR THE FEEDER AND/OR BRANCH CIRCUIT IN IT'S ENTIRETY TO SATISFY THE NEC CONDUIT AND TUBING FILL TABLES.
E	ANY CONDUIT AND/OR CONDUCTOR SIZE DEVIATIONS FROM THIS SCHEDULE, OR INDICATED ON DRAWINGS, MUST BE APPROVED BY THE ENGINEER IN WRITING.

GENERAL REQUIREMENTS NOTES (ALL DRAWINGS)

#	NOTES
A	APPLICABLE CODE: 2009 INDIANA ELECTRICAL CODE (2008 NEC WITH AMMENDMENTS).
B	CONNECT ALL LIGHTING FIXTURES WITHIN ROOM TO INDICATED SWITCH AND BRANCH CIRCUIT, U.O.N.
C	WHERE MULTIPLE SWITCHES, RECEPTACLES, AND OTHER OUTLETS (EXCEPT PHONES) ARE INDICATED, PROVIDE MULTI-GANGEBACK OUTLET BOXES WITH GANG BARRIERS AND A COMMON FACEPLATE FOR SIMILIAR DEVICES.
D	WHERE EXIT SIGNS ARE INDICATED ABOVE DOOR, MOUNT AS FOLLOWS: IF THE DISTANCE BETWEEN THE TOP OF THE DOOR FRAME AND THE CEILING IS 24 INCHES OR LESS, CENTER THE EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING. OTHERWISE, MOUNT BOTTOM OF EXIT SIGN 6 INCHES ABOVE TOP OF DOOR FRAME. MOUNT OTHER WALL MOUNTED EXIT SIGNS LOCATED WITHIN THE SAME AREA AT THE SAME HEIGHT
E	WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING HEIGHTS ARE INDICATED SIDE-BY-SIDE, MOUNT THE DEVICES SO THAT THERE IS FOUR INCHES BETWEEN ADJACENT VERTICAL EDGES.
F	WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES.
G	INSTALL SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL 120V AND 277V CIRCUITS. DO NOT SHARE NEUTRALS.
H	ALL EXIT FIXTURES AND FIXTURES INDICATED WITH "NL" SHALL BE UNSWITCHED.
I	INSTALL NO MORE THAN THREE PHASE CONDUCTORS (PLUS NEUTRALS AND GROUND) PER CONDUIT UNLESS T310-15 NEC IS FOLLOWED.
J	NUMBER OF WIRES INDICATED ON DRAWINGS, IN PANEL SCHEDULES AND CIRCUIT SIZING SCHEDULES APPLIES TO CURRENT CARRYING CONDUCTORS INCLUDING NEUTRALS. IN ADDITION TO THE NUMBER OF WIRES INDICATED, PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED AS SCHEDULED OR SIZED BY NEC 250.
K	UNLESS OTHERWISE NOTED, PROVIDE FEEDERS AND BRANCH CIRCUITS WHICH HAVE AN AMPACITY EQUAL TO OR GREATER THAN THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE RATING SERVING THE CIRCUIT. REFER TO CIRCUIT SIZING SCHEDULE FOR SIZES OF FEEDERS AND BRANCH CIRCUITS.
L	COORDINATE LOCATION OF CEILING MOUNTED FIRE ALARM DEVICES WITH OTHER EQUIPMENT TO AVOID INTERFERENCE. LOCATE FIRE ALARM DEVICES AS NEAR TO LOCATION INDICATED WHILE AVOIDING INTERFERENCES.
M	MAKE FINAL CONNECTION BETWEEN DISCONNECT AND EQUIPMENT BEING SERVED BY FEEDER OR BRANCH CURRENT.
N	DIVISION 26 CONTRACTOR SHALL REFER TO LIFE SAFETY PLAN FOR FIRE-RATING REQUIREMENTS. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE-RATED DEVICES/SEALS AS SHOWN ON ELECTRICAL DRAWINGS AND AS REQUIRED BASED ON LIFE SAFETY PLAN INFORMATION.
O	PER NEC ARTICLE 110.26(A) AND 110.26(F) THE DEDICATED ELECTRICAL SPACE INCLUDES THE SPACE DEFINED BY EXTENDING THE FOOTPRINT OF THE ELECTRICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, MOTOR CONTROLLERS) FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE HEIGHT OF THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICH EVER IS LOWER. THE DEDICATED ELECTRICAL SPACE MUST BE CLEAR OF ANY PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION. PLUMBING, HEATING, VENTILATION, AND AIR-CONDITIONING PIPING, DUCTS, AND EQUIPMENT MUST BE INSTALLED OUTSIDE THE WIDTH AND DEPTH ZONE. CONTRACTOR SHALL MAKE SURE NO PIPING OR DUCT WORK IS INSTALLED ABOVE THE ELECTRICAL EQUIPMENT. COORDINATE THESE REQUIREMENTS WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
P	CONTRACT DOCUMENTS CONSISTS OF BOTH A PROJECT MANUAL AND DRAWINGS. BOTH ARE MEANT TO BE COMPLEMENTARY - ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced SW

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Hempstead

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

GENERAL INFORMATION

E-002.4

E-002.4 - GENERAL INFORMATION
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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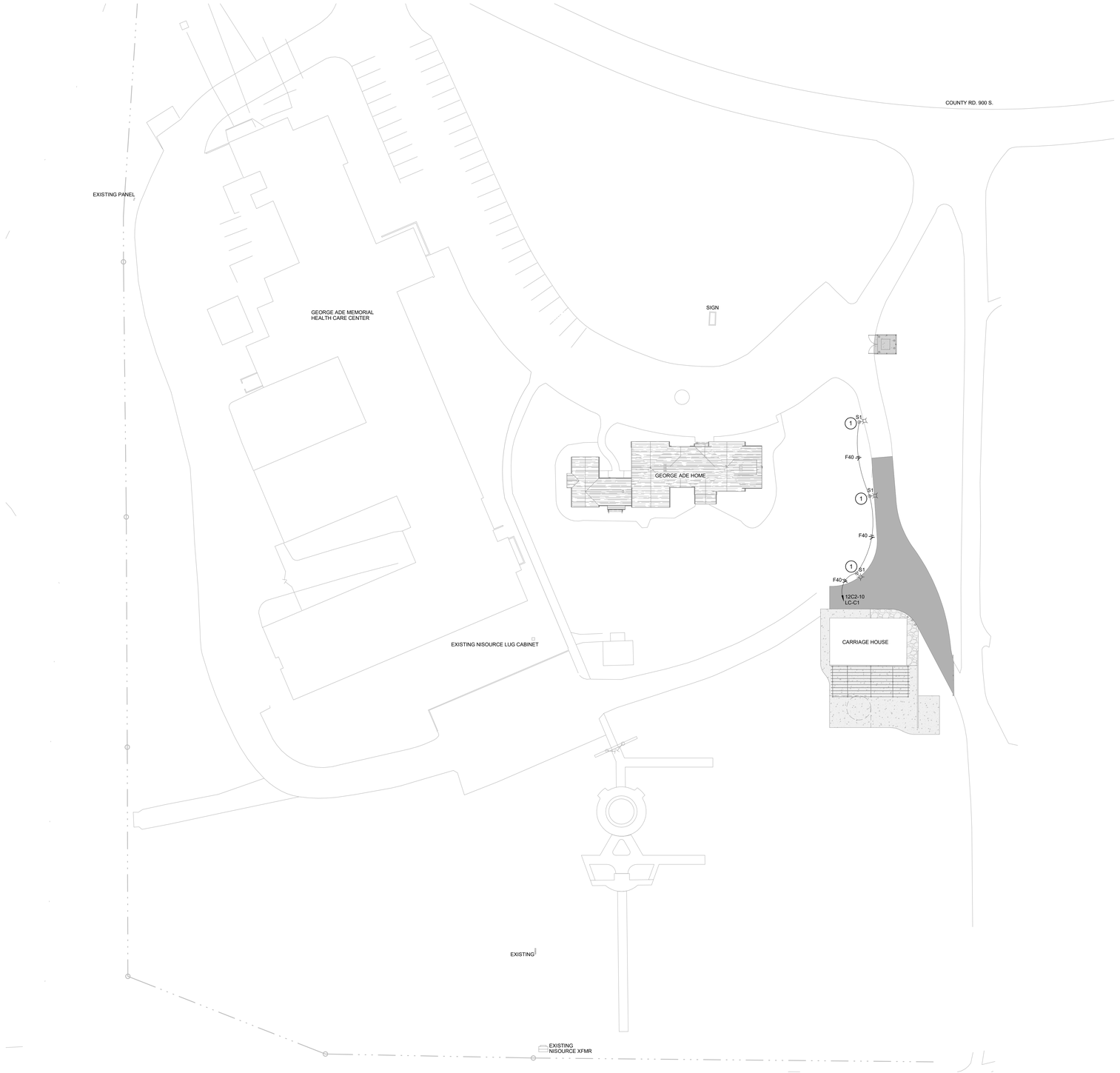

2A **SITE LIGHTING PLAN**
1" = 30'-0"

LOCAL UTILITY CONTACT INFORMATION
- WILLIAM N. WARREN
- williamwarren@nisource.com
- (574)583-1640
- NISOURCE

GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS, SCHEMATICS, REQUIREMENTS, ETC. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC.
C	COORDINATE WITH NISOURCE PRIOR TO BID. VERIFY THE LIMITS OF RESPONSIBILITY WITH RESPECT TO METERING, CONDUIT AND WIRING, TERMINATIONS, CONCRETE PADS, EXACATION, ETC. INCLUDE ALL ASSOCIATED COSTS REQUIRED BY THE NISOURCE TO ESTABLISH/UPGRADE SERVICE(S) AS INDICATED ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE REIMBURSED FOR CHANGES IN THE SERVICE INSTALLATION BROUGHT ABOUT DUE TO A FAILURE OF THE CONTRACTOR TO VERIFY ALL THE DETAILS WITH THE NISOURCE.

SITE LIGHTING PLAN NOTES

#	NOTES
1	REFER TO DETAIL 1A/E-501.3 AND 3A/E-501.3.

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SITE LIGHTING PLAN

ES101.4

ES101.4_ SITE LIGHTING PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 5_
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1/8/2026 9:40:07 AM

LOCAL UTILITY CONTACT INFORMATION
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- williamwarren@nisource.com
- (574)583-1640
- NISOURCE

GENERAL SITE NOTES

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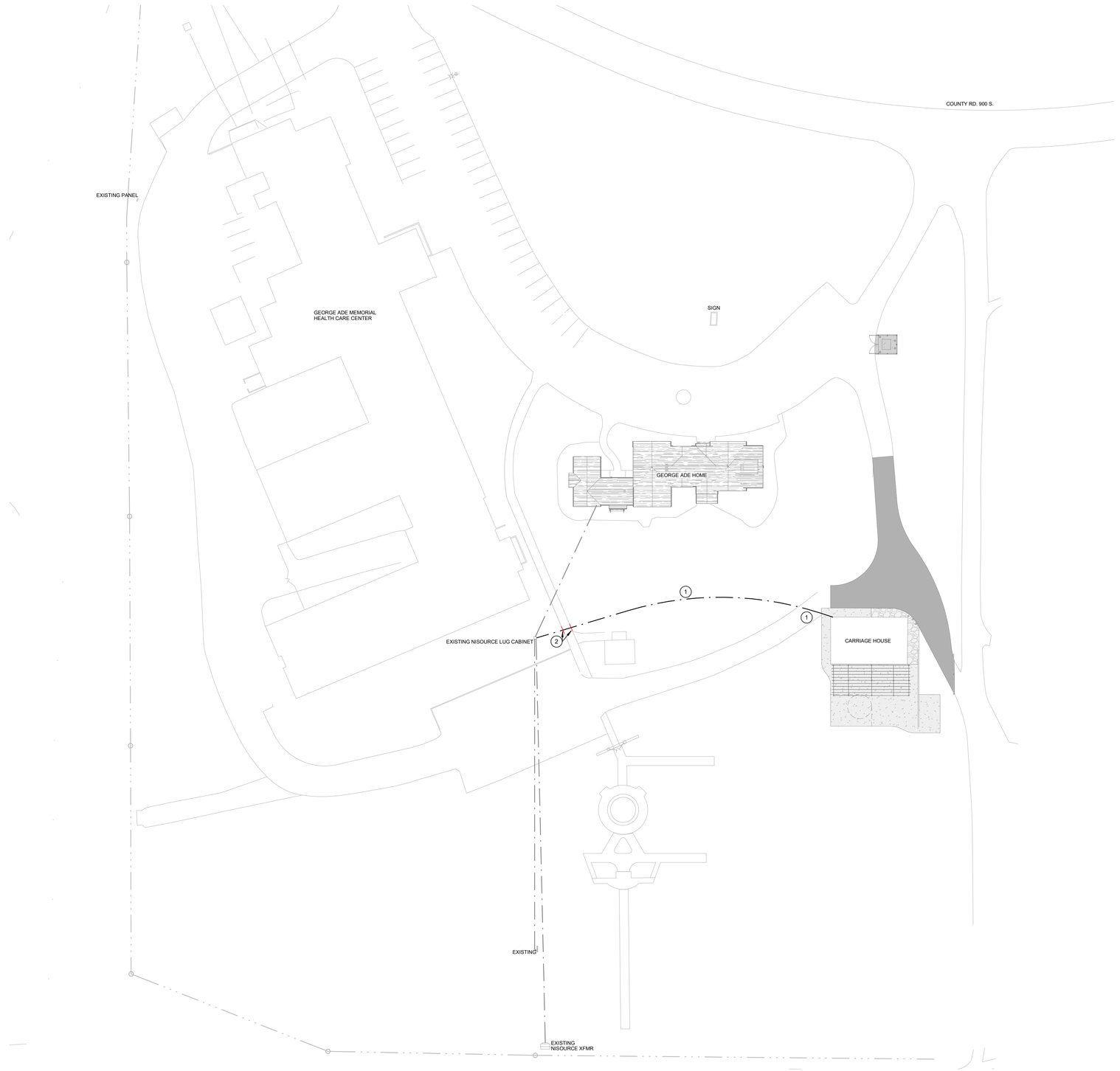
C	COORDINATE WITH NISOURCE PRIOR TO BID. VERIFY THE LIMITS OF RESPONSIBILITY WITH RESPECT TO METERING, CONDUIT AND WIRING, TERMINATIONS, CONCRETE PADS, EXACATION, ETC. INCLUDE ALL ASSOCIATED COSTS REQUIRED BY THE NISOURCE TO ESTABLISH/UPGRADE SERVICE(S) AS INDICATED ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE REIMBURSED FOR CHANGES IN THE SERVICE INSTALLATION BROUGHT ABOUT DUE TO A FAILURE OF THE CONTRACTOR TO VERIFY ALL THE DETAILS WITH THE NISOURCE.

SITE POWER PLAN NOTES

#	NOTES
1	TRENCH 4" EMPTY PVC CONDUIT FROM UTILITY LUG CABINET TO NEW UTILITY METER SERVING CARRIAGE HOUSE. PROVIDE LONG SWEEPING ELBOWS AT EACH END. PROVIDE PULL STRING FOR CONDUIT. COORDINATE WITH UTILITY COMPANY FOR UTILITY WIRE INSTALLATION.
2	BORE 4" CONDUIT UNDER EXISTING PAVEMENT.



2A SITE POWER PLAN
1" = 30'-0"

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SITE POWER PLAN

ES102.4

ES102_4_SITE POWER PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 5_
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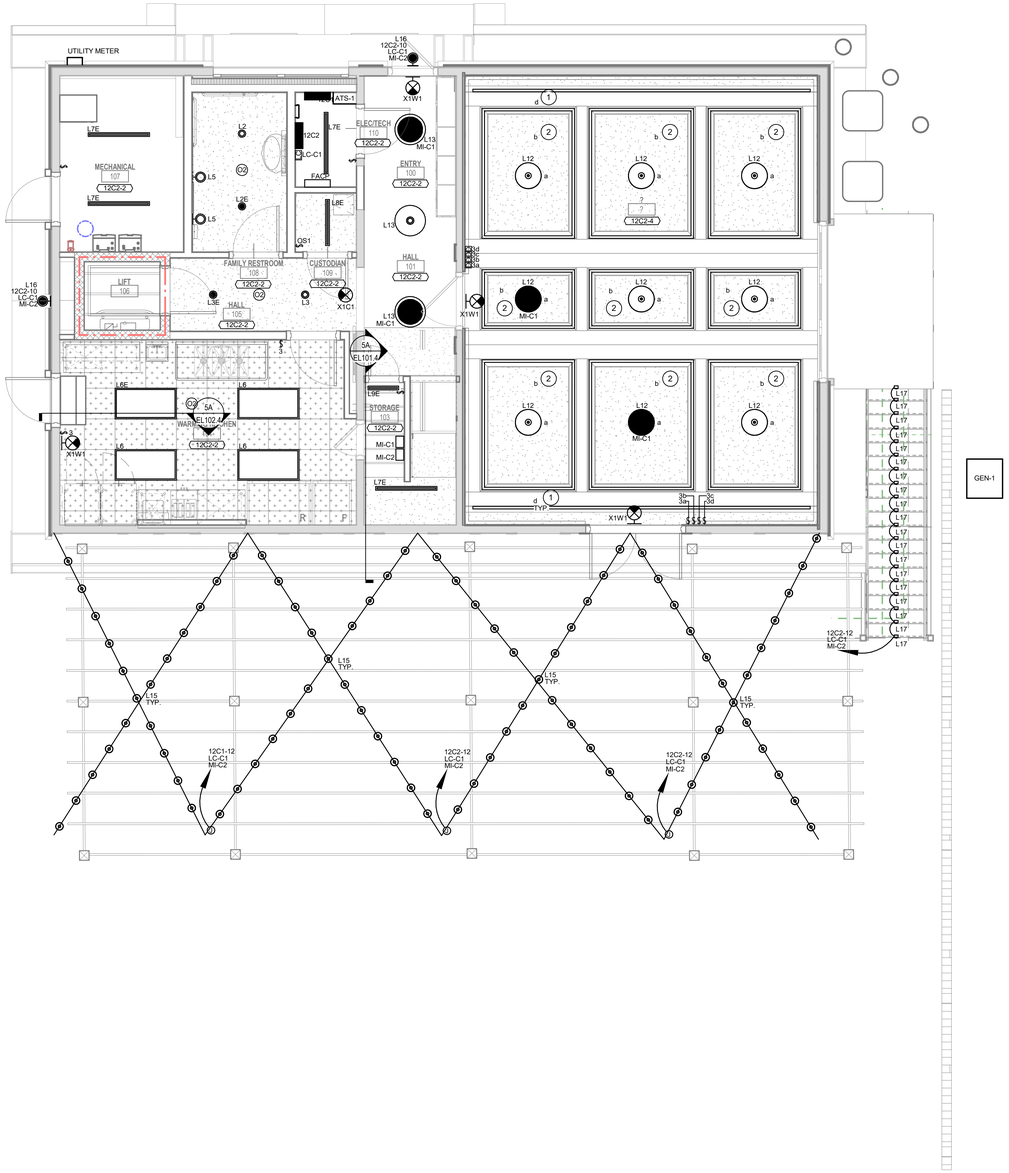
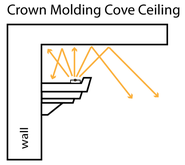
GENERAL LIGHTING NOTES	
#	NOTES
A	REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES	
#	NOTES
1	PROVIDE COVE LIGHTING IN SPACE. REFER TO TYPE-A CROWN MOLDING COVE CEILING IN DETAIL 5C/EL101.
2	PROVIDE COVE LIGHTING IN SPACE. REFER TO TYPE-B CROWN MOLDING COVE CEILING IN DETAIL 5C/EL101.



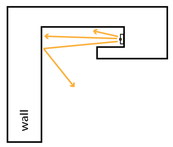
GEN-1

Crown Molding Cove Ceiling



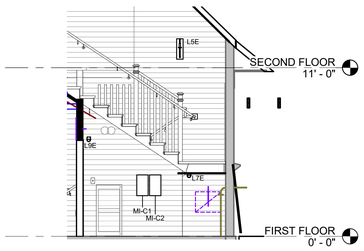
TYPE - A

Dropped Ceiling



TYPE - B

5C **COVE LIGHTING DETAIL**
1/8" = 1'-0"



5A **FIRST FLOOR LIGHTING PLAN - STAIRS SECTION**
1/4" = 1'-0"

2A **FIRST FLOOR LIGHTING PLAN**
1/4" = 1'-0"

SCHMIDT
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731 Brent St. #203, Louisville, KY 40204

Project No. 2021-036.GAH
Project Date 01.08.2026
Produced SW

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO.
AR10400134
STATE OF
INDIANA
ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN
ESTATE
RESTORATION -
CARRIAGE
HOUSE
RENOVATION -
BID PACKAGE 4

FIRST FLOOR LIGHTING PLAN

EL101.4

EL101.4_FIRST FLOOR LIGHTING PLAN
2021-036.GAH NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
C:\Users\sarah.hempstead\Desktop\2021-036.GAH_Hazelden_C_2025\2021-036.GAH_Hazelden_C_2025_sarah.rvt
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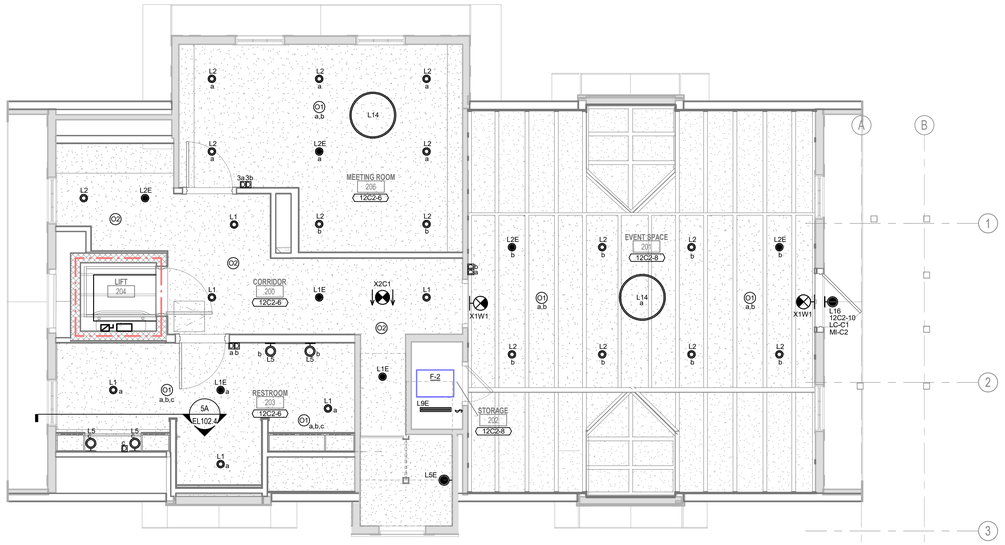
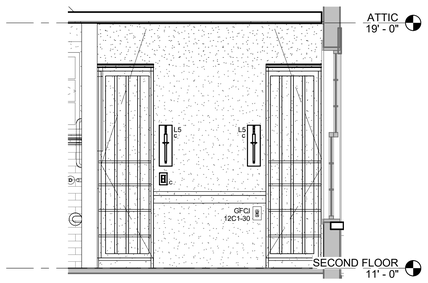
GENERAL LIGHTING NOTES	
#	NOTES
A	REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES	
#	NOTES
1	PROVIDE COVE LIGHTING IN SPACE. REFER TO TYPE-A CROWN MOLDING COVE CEILING IN DETAIL 5C/EL101.
2	PROVIDE COVE LIGHTING IN SPACE. REFER TO TYPE-B CROWN MOLDING COVE CEILING IN DETAIL 5C/EL101.





5A **SECOND FLOOR LIGHTING PLAN - BATHROOM SECTION**
1/2" = 1'-0"

2A **SECOND FLOOR LIGHTING PLAN**
1/4" = 1'-0"

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SECOND FLOOR LIGHTING PLAN

EL102.4

EL-102.4_SECOND FLOOR LIGHTING PLAN
20-036 GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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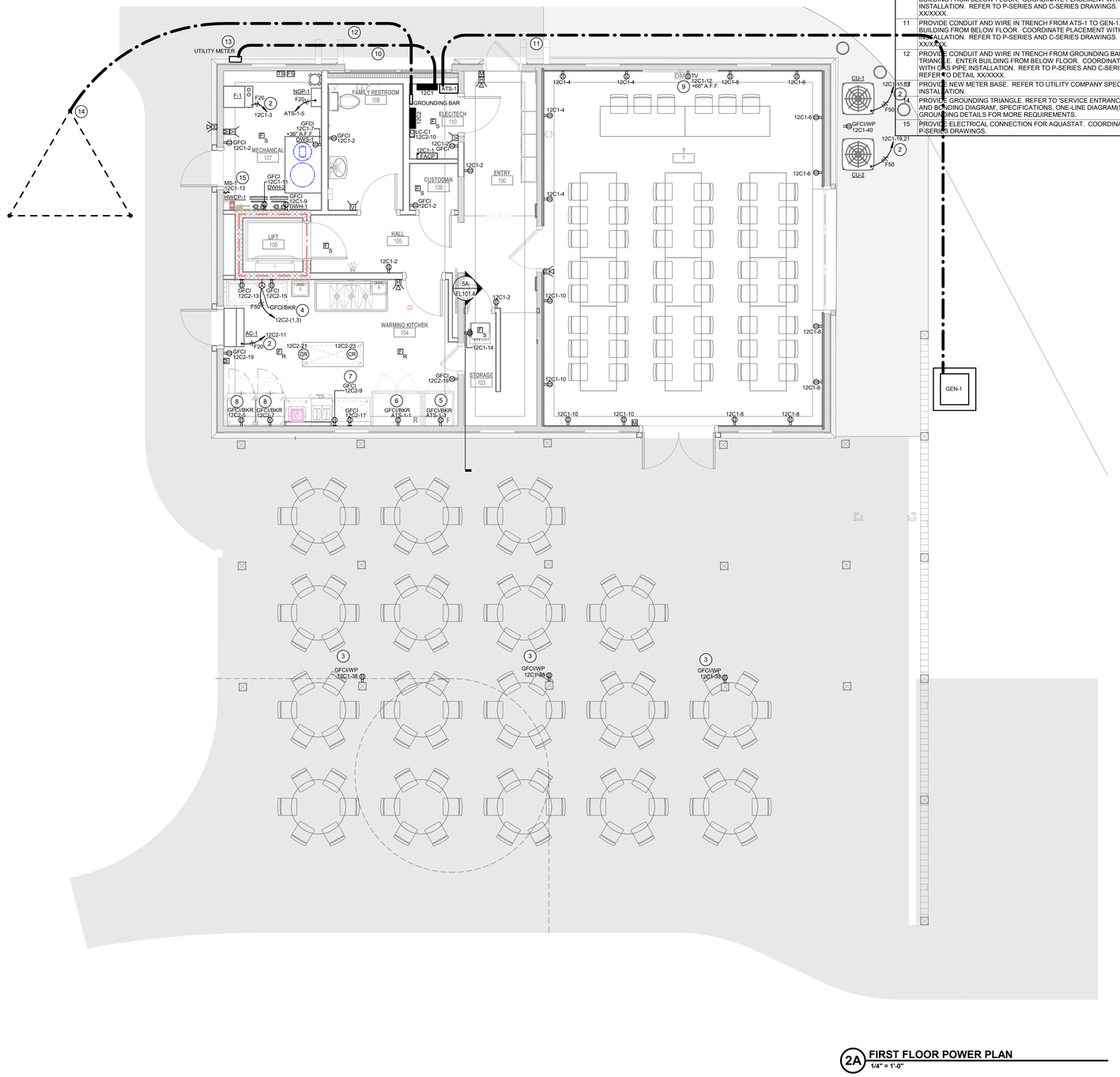
1/14/2026 3:09:08 PM

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES

#	NOTES
1	PROVIDE AND INSTALL ELEVATOR EQUIPMENT ACCORDING TO NEC 620.51(A). REFER TO SAVARIA INSTALLATION DRAWINGS.
2	PROVIDE CIRCUIT AND CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
3	STUB UP TO RECEPTACLE MOUNTED ON POST.
4	PROVIDE NEMA 15-50R RECEPTACLE FOR DISHWASHER. COORDINATE MOUNTING HEIGHT WITH MANUFACTURER. CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER.
5	PROVIDE NEMA 5-20P RECEPTACLE FOR FREEZER. COORDINATE MOUNTING HEIGHT WITH MANUFACTURER. CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER.
6	PROVIDE NEMA 5-20R RECEPTACLE FOR REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH MANUFACTURER. CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER.
7	PROVIDE NEMA 5-20R RECEPTACLE FOR ICE CREAM MACHINE. COORDINATE MOUNTING HEIGHT WITH MANUFACTURER. CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER.
8	PROVIDE NEMA 5-20R RECEPTACLE FOR MOBILE HEATED CABINET. COORDINATE MOUNTING HEIGHT WITH MANUFACTURER. CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER.
9	RECEPTACLE FOR DISPLAY MONITOR. COORDINATE MOUNTING HEIGHT WITH T-SERIES DRAWINGS.
10	PROVIDE CONDUIT AND WIRE IN TRENCH FROM UTILITY METER TO 12C1. ENTER BUILDING FROM BELOW FLOOR. COORDINATE PLACEMENT WITH GAS PIPE INSTALLATION. REFER TO P-SERIES AND C-SERIES DRAWINGS. REFER TO DETAIL XX/XXXX.
11	PROVIDE CONDUIT AND WIRE IN TRENCH FROM ATS-1 TO GEN-1. ENTER BUILDING FROM BELOW FLOOR. COORDINATE PLACEMENT WITH GAS PIPE INSTALLATION. REFER TO P-SERIES AND C-SERIES DRAWINGS. REFER TO DETAIL XX/XXXX.
12	PROVIDE CONDUIT AND WIRE IN TRENCH FROM GROUNDING BAR TO GROUNDING TRIANGLE. ENTER BUILDING FROM BELOW FLOOR. COORDINATE PLACEMENT WITH GAS PIPE INSTALLATION. REFER TO P-SERIES AND C-SERIES DRAWINGS. REFER TO DETAIL XX/XXXX.
13	PROVIDE NEW METER BASE. REFER TO UTILITY COMPANY SPECIFICATIONS FOR INSTALLATION.
14	PROVIDE GROUNDING TRIANGLE. REFER TO 'SERVICE ENTRANCE GROUNDING AND BONDING DIAGRAM', SPECIFICATIONS, ONE-LINE DIAGRAM(S), AND GROUNDING DETAILS FOR MORE REQUIREMENTS.
15	PROVIDE ELECTRICAL CONNECTION FOR AQUASTAT. COORDINATE WITH P-SERIES DRAWINGS.



2A **FIRST FLOOR POWER PLAN**
1/4" = 1'-0"

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Produced SW

SARAH KATHLEEN HEMPSTEAD
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STATE OF INDIANA
ARCHITECT

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BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

FIRST FLOOR POWER PLAN

EP101.4

EP101.4 - FIRST FLOOR POWER PLAN
2021-036.GAH - NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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GENERAL POWER NOTES

#	NOTES
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POWER PLAN NOTES

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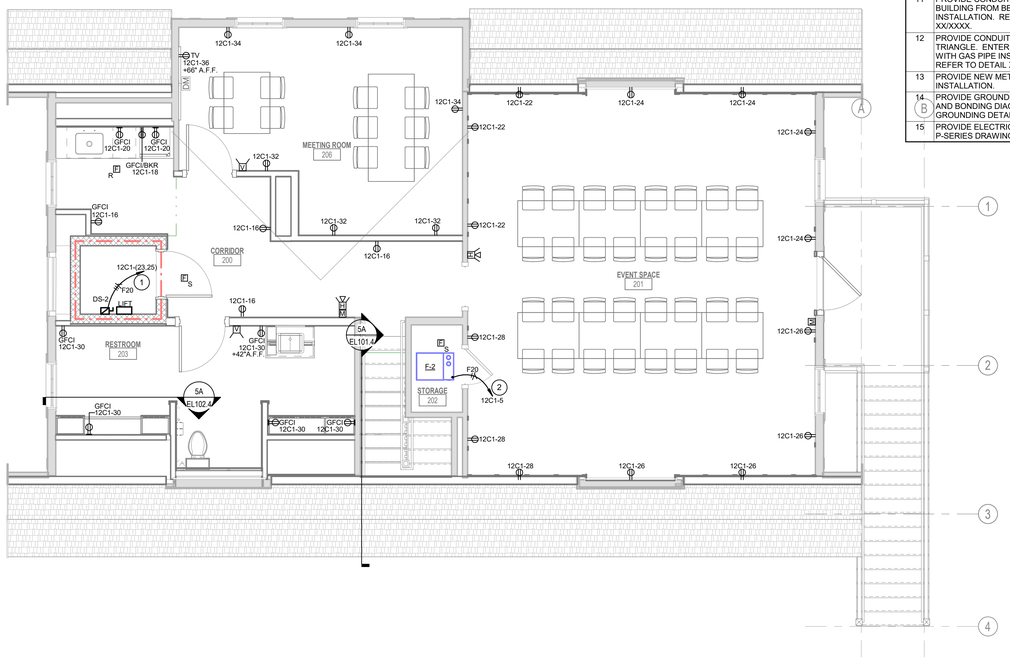
15	PROVIDE ELECTRICAL CONNECTION FOR AQUASTAT. COORDINATE WITH P-SERIES DRAWINGS.



2A **SECOND FLOOR POWER PLAN**
1/4" = 1'-0"

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BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SECOND FLOOR POWER PLAN

EP102.4

EP102.4_SECOND FLOOR POWER PLAN
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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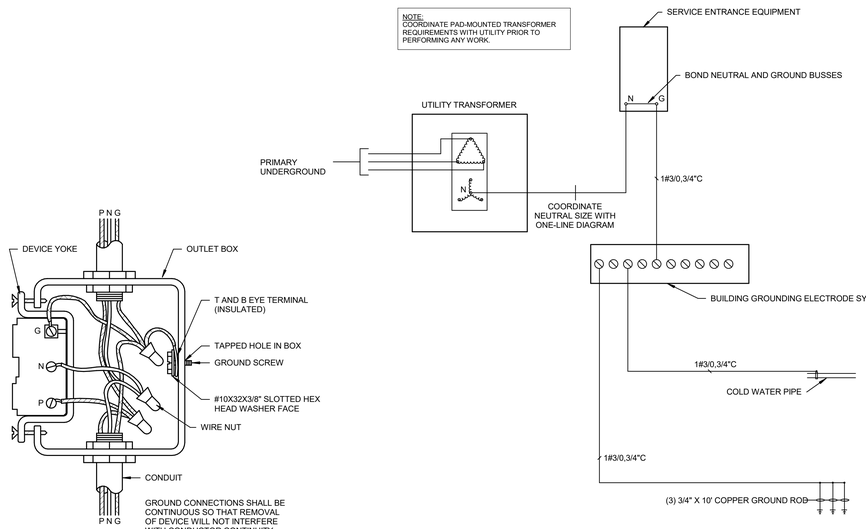
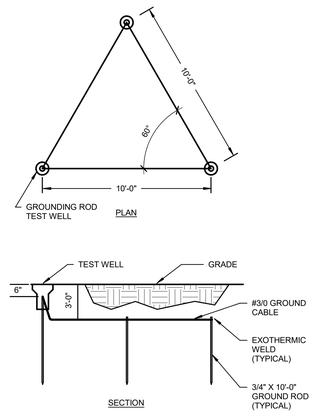
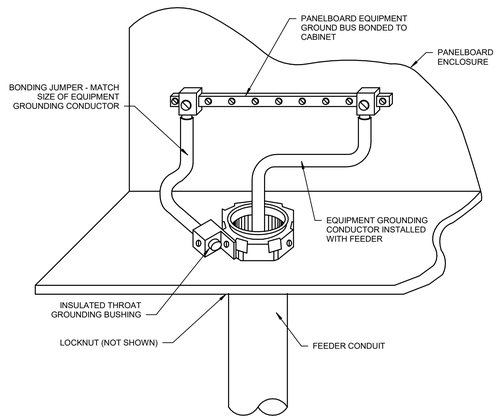


1C SERVICE ENTRANCE GROUNDING AND BONDING SCHEMATIC
NOT TO SCALE

3C DEVICE GROUNDING DETAIL
NOT TO SCALE



3A GROUNDING GRID/TRIANGLE DETAIL
NOT TO SCALE



1A PANELBOARD BONDING DETAIL
NOT TO SCALE

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

GROUNDING DETAILS

E-501.4

E-501.4_GROUNDING DETAILS
20-036 GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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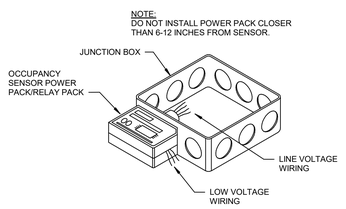
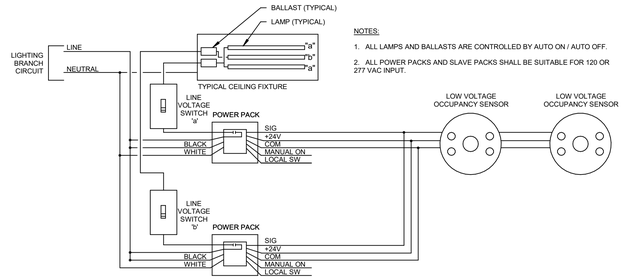
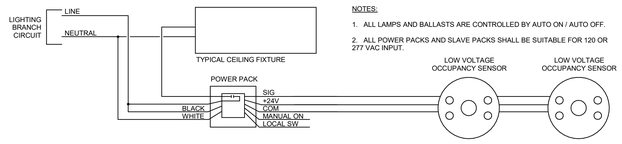


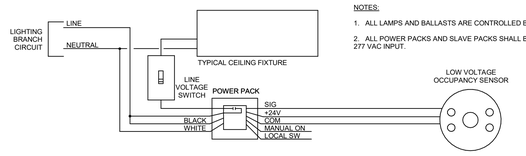
4D OCCUPANCY SENSOR POWER PACK/RELAY MOUNTING DETAIL
NOT TO SCALE



1D OCCUPANCY SENSOR LIGHTING CONTROL 'a,b' SWITCHING SCHEMATIC
NOT TO SCALE



4C OCCUPANCY SENSOR LIGHTING CONTROL CORRIDOR SWITCHING SCHEMATIC
NOT TO SCALE



1C OCCUPANCY SENSOR LIGHTING CONTROL SCHEMATIC
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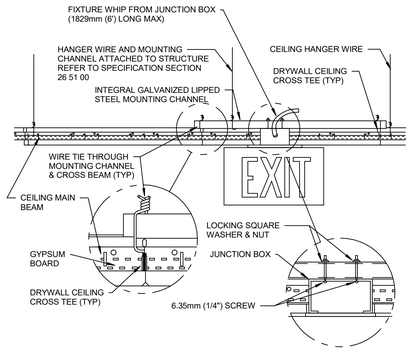
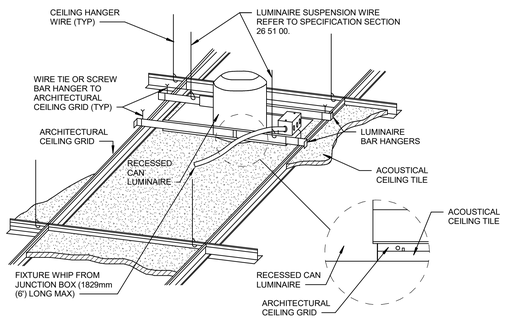


GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

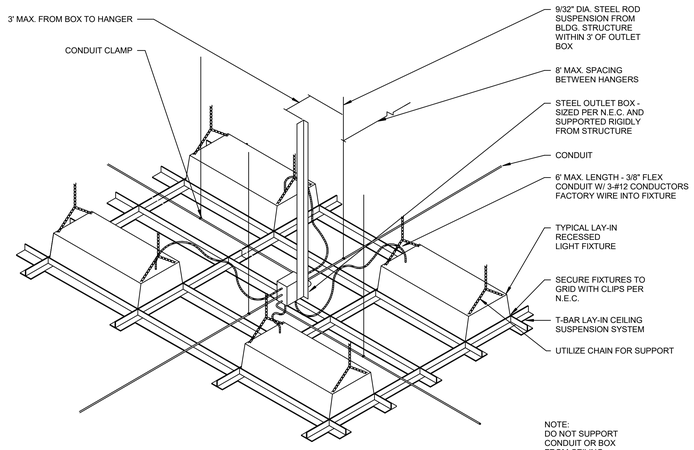
5A EXIT SIGN MOUNTING - GYPBOARD CEILING DETAIL
NOT TO SCALE



GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING RECOMMENDED MOUNTING HARDWARE.

4A DOWNLIGHT MOUNTED IN LAY-IN CEILING DETAIL
NOT TO SCALE



1A RECESSED LIGHTING INSTALLATION
NOT TO SCALE

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

LIGHTING DETAILS

E-502.4

E-502.4 - LIGHTING DETAILS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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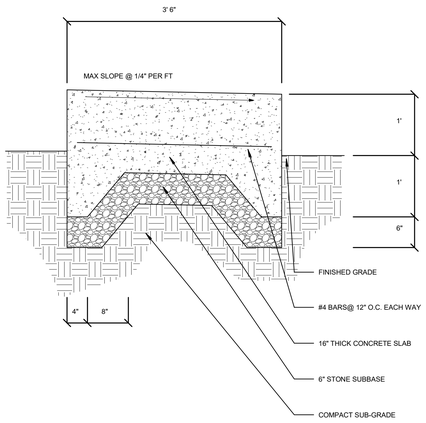
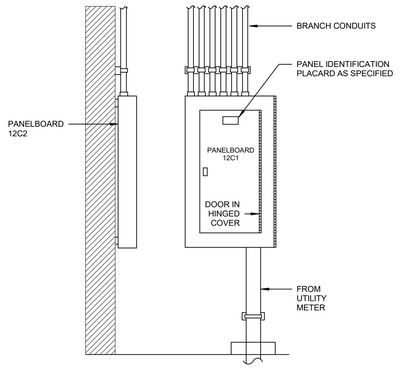
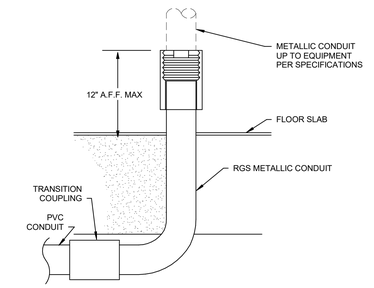


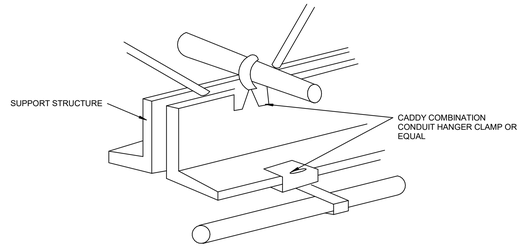
4D GENERATOR DOCKING STATION DETAIL
NOT TO SCALE



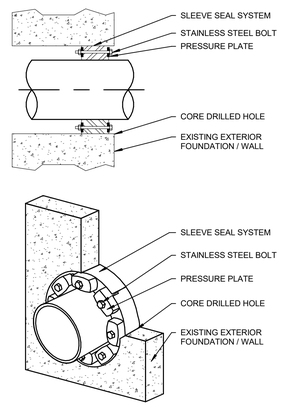
1E PANELBOARD DETAIL
NOT TO SCALE



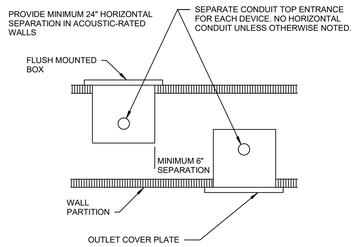
1C PVC TO ABOVE GROUND CONDUIT STUB-UP DETAIL
NOT TO SCALE



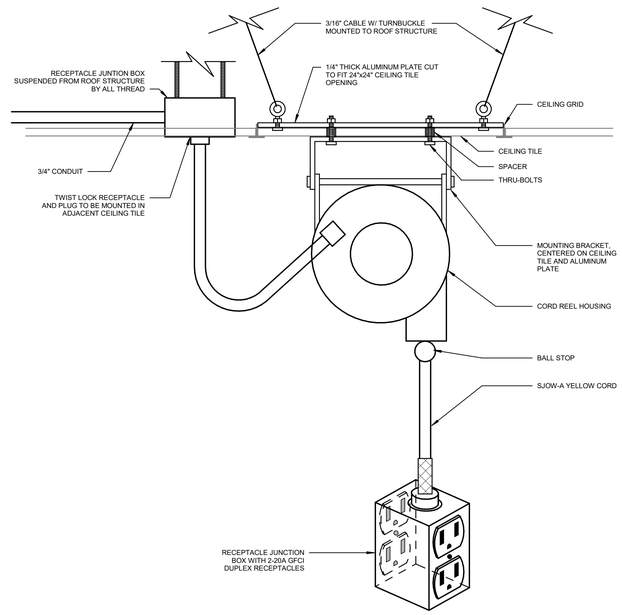
3C CONDUIT 2" AND SMALLER SUPPORT DETAIL
NOT TO SCALE



5C SLEEVE SEAL SYSTEM WITH SLEEVE DETAIL
NOT TO SCALE



5A BACK-TO-BACK WALL OUTLETS DETAIL
NOT TO SCALE



1A CORD REEL MOUNTING DETAIL - BELOW CEILING GRID
NOT TO SCALE

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced SW

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

GENERAL DETAILS

E-503.4

E-503.4_GENERAL DETAILS
2021036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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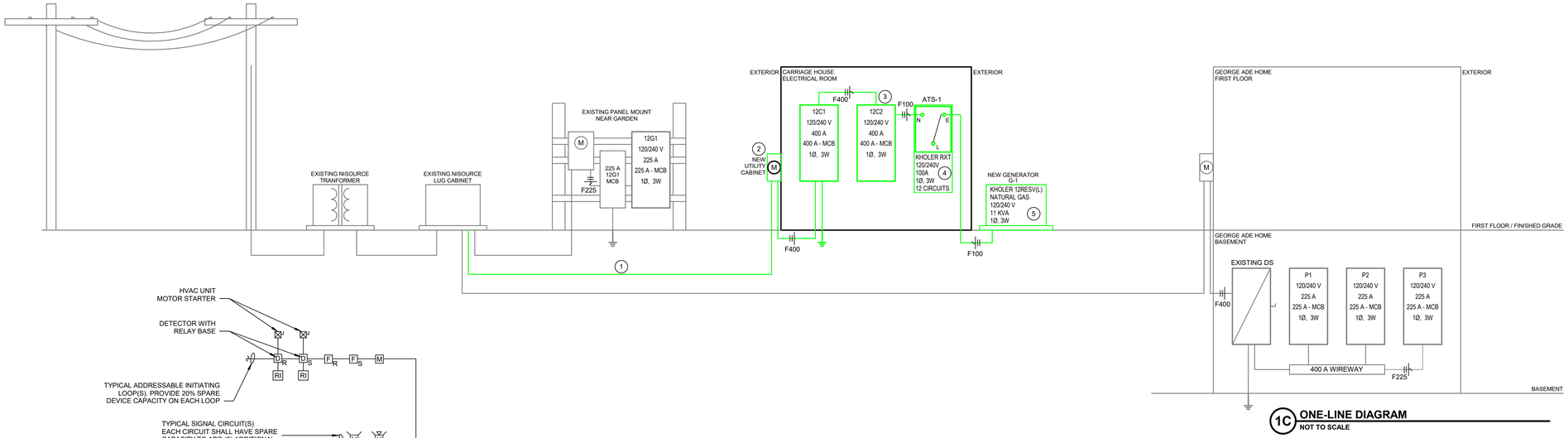
FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)								
	CONDUCTOR SIZE PER CONDUIT		CONDUIT SIZE & QUANTITY					
FEEDER/BRANCH CIRCUIT LABEL	PHASE & NEUTRAL	EQUIP/SERV GROUND	1P,1N,1G 2P,1G	2P,1N,1G 3P,1G	3P,1N,1G 3P,1N	3P,2N,1G	3P,3N,1G	3P,1N,2G
F20	12	12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F30	10	10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F40	8	10	3/4"	3/4"	1"	1"	1"	1"
F50	6	10	1"	1"	1"	1-1/4"	1-1/4"	1"
F60	4	10	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
F70	4	8	1"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/4"
F80	3	8	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/4"
F90	2	8	1"	1-1/4"	1-1/2"	1-1/2	2"	1-1/2"
F100	1	8	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"
F110	1	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F125	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F150	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F175	2/0	6	1-1/2"	2"	2"	2-1/2"	2-1/2"	2"
F200	3/0	6	1-1/2"	2"	2"	2-1/2"	3"	2-1/2"
F225	4/0	4	2"	2"	2-1/2"	3"		2-1/2"
F250	250	4	2"	2-1/2"	3"	3"		3"
F300	350	4	2"	2-1/2"	3"	3-1/2"		3"
F350	500	3	2-1/2"	3"	3-1/2"	4"		3-1/2"
F400	3/0	3	(2) 1-1/2"	(2) 2"	(2) 2-1/2"	(2) 2-1/2"		(2) 2-1/2"
F450	4/0	2	(2) 2"	(2) 2"	(2) 2-1/2"	(2) 3"		(2) 2-1/2"
F500	250	2	(2) 2"	(2) 2-1/2"	(2) 3"	(2) 3"		(2) 3"
F600	350	1	(2) 2-1/2"	(2) 3"	(2) 3"	(2) 3-1/2"		(2) 3"
F700	500	1/0	(2) 2-1/2"	(2) 3"	(2) 3-1/2"	(2) 4"		(2) 3-1/2"
F800	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		(3) 3"
F900	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		
F1000	500	2/0	(3) 2-1/2"	(3) 3"	(3) 3-1/2"	(3) 4"		
F1200	350	3/0	(4) 2-1/2"	(4) 3"	(4) 3"	(4) 3-1/2"		
F1600	500	4/0	(5) 3"	(5) 3"	(5) 3-1/2"	(5) 4"		
F2000	500	250	(6) 3"	(6) 3"	(6) 3-1/2"	(6) 4"		
F2500	500	350	(7) 4"	(7) 3-1/2"	(7) 3-1/2"	(7) 4"		
F3000	500	500	(8) 4"		(8) 4"	(8) 4"		

GENERAL ONE-LINE DIAGRAM NOTES

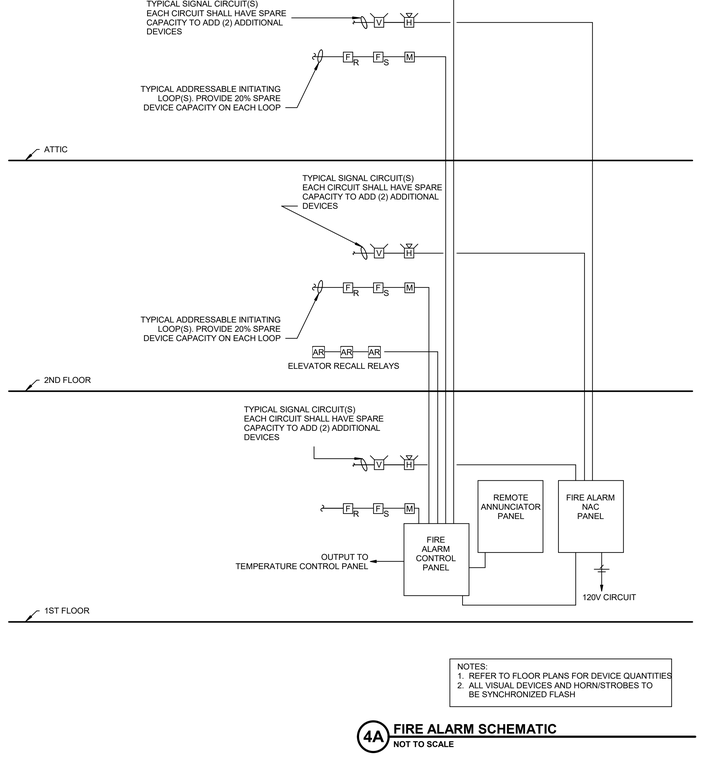
#	NOTES
A	REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM NOTES

#	NOTES
1	PROVIDE (1) EMPTY 3" CONDUIT TO NEW METER. PROVIDE PULL STRING. NISOURCE TO PULL NEW WIRE COMPLETE FROM SOURCE.
2	PROVIDE NEW METER BASE. REFER TO NISOURCE SPECIFICATIONS FOR INSTALLATION.
3	SUBFEED 12C2 FROM LUGS OF 12C1.
4	PROVIDE KHOLER MODEL RXT ATS WITH A 12-CIRCUIT CIRCUIT BREAKER SECTION. REFER TO ATS-1 PANELBOARD SCHEDULE FOR LOADS ON CIRCUIT BREAKER SECTION.
5	PROVIDE KOHLER MODEL 12RESV(L) NATURAL GAS GENERATOR WITH INCLUDED BATTERY, BATTERY CHARGER AND CARBURETOR HEATER. PROVIDE (1) CIRCUIT FOR BOTH BATTERY CHARGER AND CARBURATOR HEATER.



1C **ONE-LINE DIAGRAM**
NOT TO SCALE



NOTES:
1. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES
2. ALL VISUAL DEVICES AND HORN/STROBES TO BE SYNCHRONIZED FLASH

4A **FIRE ALARM SCHEMATIC**
NOT TO SCALE

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

ONE-LINE DIAGRAM & FIRE ALARM SCHEMATIC

E-601.4

E-601.4 - ONE-LINE DIAGRAM & FIRE ALARM SCHEMATIC
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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265119/265619/26213.1 - INTERIOR/EXTERIOR/EMERGENCY & EXIT LIGHT FIXTURES SCHEDULE

LABEL	DESCRIPTION	VOLTAGE	SOURCE				MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	LABEL
			TYPE	LUMENS	WATTS	CCT					
L1	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. WIDE DISTRIBUTION (75°). 1%, 0-10V DIMMING.	120 V	LED	1,500 LM	16 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L1
L1E	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. WIDE DISTRIBUTION (75°). 1%, 0-10V DIMMING. PROVIDE BATTERY INVERTER.	120 V	LED	1,500 LM	16 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L1E
L2	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. WIDE DISTRIBUTION (75°). 1%, 0-10V DIMMING.	120 V	LED	2,000 LM	22 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L2
L2E	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. WIDE DISTRIBUTION (75°). 1%, 0-10V DIMMING. PROVIDE BATTERY INVERTER.	120 V	LED	2,000 LM	22 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L2E
L3	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. WIDE DISTRIBUTION (75°). 1%, 0-10V DIMMING.	120 V	LED	3,000 LM	28 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L3
L3E	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. WIDE DISTRIBUTION (75°). 1%, 0-10V DIMMING. PROVIDE BATTERY INVERTER.	120 V	LED	3,000 LM	28 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L3E
L5	DECORATIVE WALL SCONCE.	120 V	LED	1,000 LM	40 W	3500 K	SURFACE MOUNTED ON WALL	N/A	N/A	VISUAL COMFORT & CO. SAVANNAH SCONCE	L5
L5E	DECORATIVE WALL SCONCE. 0-10V DIMMING.	120 V	LED	1,000 LM	40 W	3500 K	SURFACE MOUNTED ON WALL	N/A	N/A	VISUAL COMFORT & CO. SAVANNAH SCONCE	L5E
L6	2X4 LED FLAT PANEL. 0-10V DIMMING. SELECTABLE COLOR TEMPERATURE AND LUMEN OUTPUT. SET TO 3,500K AND 4,000 LM.	120 V	LED	4,000/5,000/6,000 LM SELECTABLE	50 W	3500K/4000K/5000K SELECTABLE	RECESSED IN GRID	SATIN WHITE	DLC	METALUX CGTS COLUMBIA CBT LITHONIA CPX	L6
L6E	2X4 LED FLAT PANEL. 0-10V DIMMING. SELECTABLE COLOR TEMPERATURE AND LUMEN OUTPUT. SET TO 3,500K AND 4,000 LM. PROVIDE BATTERY INVERTER.	120 V	LED	4,000/5,000/6,000 LM SELECTABLE	50 W	3500K/4000K/5000K SELECTABLE	RECESSED IN GRID	SATIN WHITE	DLC	METALUX CGTS COLUMBIA CBT LITHONIA CPX	L6E
L7E	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120 V	LED	6,500 LM	62 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L7E
L8E	3' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120 V	LED	6,500 LM	62 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L8E
L9E	2' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120 V	LED	6,500 LM	62 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L9E
L10	LED LINEAR FIXTURE. EXTRUDED ALUMINUM HOUSING. PROVIDE MOUNTING CLIPS, POWER SUPPLIE(S), CONTROLLER(S), AND ALL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. 3000K.	120 V	LED	200 LM/FT	20 W	3500 K	SURFACE MOUNTED IN COVE	N/A	N/A	KLUS KWP-CR-1220-24	L10
L11	4"x6" RECESSED STEP LIGHT. 15 DEGREE ADJUSTABLE THROW. FLUSH DOOR APPEARANCE. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120 V	LED	200 LM/FT	20 W	3500 K	SURFACE MOUNTED IN COVE	FROSTED LENS	N/A	KLUS KWP-CR-1220-24	L11
L12	DECORATIVE ROUND FLUSH MOUNT. CRYSTAL SHADE. 0-10V DIMMING.	120 V	LED	4,000 LM	35 W	3500 K	SURFACE MOUNTED	CRYSTAL	N/A	SCHONBEK S6020	L12
L13	24" WIDE LED SHADE. LED LIGHT ENGINE. BLACK FINISH. FROSTED LENS.	120 V	LED	4,000 LM	30 W	3500 K	RECESSED IN DRYWALL	N/A	N/A	HI-LITE MFG. CO. H-15124	L13
L14	PROVIDE $5,000 ALLOWANCE FOR OWNER SELECTED FIXTURE. COORDINATE FINAL INSTALLATION WITH OWNER.	120 V	LED		32 W						L14
L15	CANTENARY LED LIGHTING WITH 2' SPACING. G-SHAPED FILAMENT. WET LOCATION RATED. DARK SKY COMPLIANT. ALUMINUM CONE CANOPY WITH BLACK FINISH.	120 V	LED	42 LM	3 W	2700 K	CANTENARY MOUNT	CLEAR	N/A	ALUZ ZOZO	L15
L16	24" WIDE LED SHADE. LED LIGHT ENGINE. BLACK FINISH. FROSTED LENS. U.L. LISTED FOR WET LOCATIONS.	120 V	LED	4,000 LM	30 W	3000 K	BRACKET MOUNTED ON WALL	N/A	N/A	HI-LITE MFG. CO. H-15124	L16
L17	4"x6" RECESSED STEP LIGHT. 15 DEGREE ADJUSTABLE THROW. FLUSH DOOR APPEARANCE. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120 V	LED	210 LM	6 W	2700 K	FLOOR/STEP	EXTRUDED ALUMINUM REFLECTOR	N/A	VISTA MODEL 1501	L17
S1	LED SITE FIXTURE WITH STRAIGHT EDGE ALUMINUM SHADE. SINGLE-PIECE ALUMINUM DRIVER HOUSING. SHEPARD HOOK ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD. 15 AMP DUPLEX GFCI RECEPTACLE WITH LOW-PROFILE IN-USE COVER.	120 V	LED	10,000 LM	90 W	3000 K	15' POLE WITH CONCRETE BASE	DIFFUSED ACRYLIC	N/A	STERNBURG GALLERY+R2+BIRMINGHAM	S1
X1C1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1C1
X1W1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1W1
X2C1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. DUAL FACE. STENCIL FACE, RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X2C1

263323.1 - CENTRAL BATTERY EQUIPMENT FOR EMERGENCY LIGHTING SCHEDULE

LABEL	LOCATION		EQUIPMENT RATINGS				INPUT/OUTPUT CIRCUIT		ACCESSORIES	REMARKS
	NUMBER	NAME	VOLTAGE	MINIMUM OUTPUT FOR 90-MINUTES (W/VA)	MOUNT	NEMA ENCL	PANEL	CIRCUIT		
MI-C1	8	Space	120/277V	20	SURFACE	1	12C2	10	SELF-DIAGNOSTICS OVERRIDE FOR 0-10V DIMMING SYSTEM	
MI-C2	8	Space	120/277V	20	SURFACE	1	12C2	12	SELF-DIAGNOSTICS OVERRIDE FOR 0-10V DIMMING SYSTEM	

262913/262923.1 - ENCLOSED & VARIABLE-FREQUENCY MOTOR CONTROLLERS SCHEDULE

LABEL	LOCATION		EQUIPMENT SERVED	EQUIPMENT RATINGS					STARTER		DISCONNECT SWITCH		REMOTE CAPACITOR	REMARKS
	NUMBER	NAME		VOLTAGE	PHASE	HP	FLA	NEMA ENCL	TYPE	NEMA SIZE	TYPE	FUSE SIZE		
MS-1	4	Space	HWCP-1	120 V	1	1/6	4.4 A	-	-	-	-	-	-	

262913.1 - LIGHTING CONTACTORS SCHEDULE

LABEL	LOCATION		EQUIPMENT RATINGS					COIL CIRCUIT			CONTROL	CIRCUIT(S) CONTROLLED	REMARKS
	NUMBER	NAME	VOLTAGE	AMPERAGE	POLES	NEMA ENCL	ACCESSORIES	VOLTAGE	PANEL	CIRCUIT			
LC-C1	6	Space	600 V	30 A	12	NEMA 1	H-O-A PILOT LIGHT	120 V	12C2	10	PHOTOCELL LOCATED ON ROOF		

262816.1 - ENCLOSED SWITCHES & CIRCUIT BREAKERS SCHEDULE

LABEL	LOCATION		EQUIPMENT SERVED	EQUIPMENT RATINGS						ACCESSORIES		REMARKS
	NUMBER	NAME		VOLTAGE	POLES	AMPERAGE	FUSED	FUSE SIZE	NEMA ENCL	AUX. CONTACTS	SOLID NEUTRAL	
DS-2	15	Space	LIFT PANEL	240 V	2	30 A	Yes	20 A	1	(1) N.O. / N.C.	No	

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

LIGHTING & EQUIPMENT SCHEDULES

E-602.4

E-602.4_LIGHTING & EQUIPMENT SCHEDULES
2021.036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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GENERAL SWITCHBOARD/PANELBOARD NOTES

#	NOTES
A	VERIFY SIZE AND QUANTITY OF LUGS REQUIRED PER ONE-LINE DIAGRAM.
B	VERIFY PANEL / LUG SIZE REQUIRED FOR FEEDERS INDICATED ON ONE-LINE DIAGRAM. MODIFY AS REQUIRED FOR LARGER FEEDERS.
C	VERIFY CONDUIT ENTRY LOCATION ON EACH PANEL.
D	CONFIRM FINAL ROOM NAMES AND NUMBERS WITH OWNER PRIOR TO CREATING FINAL PANELBOARD DIRECTORIES.
E	MODIFY AIC RATINGS INDICATED ON SCHEDULES, AS REQUIRED, PER SPECIFICATION SECTION 260574.99.

BRANCH CIRCUIT PANELBOARD SCHEDULE

DESIGNATION: 12C1 **VOLTS:** 120/240 V **MAINS RATING:** 225 A
LOCATION: Space 6 **PHASES:** 1 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 3 **MCB RATING:** 225 A
SUPPLY FROM: **AIC RATING:** 22,000 **MCB OPTIONS:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	110	FACP	20 A	1	0.00	1.26			1	20 A	RECEPT	100,101,105,107,108,109,110	2	
	3	107	F-1	20 A	1			1.51	0.72	1	20 A	RECEPT	102	4	
	5	202	F-2	20 A	1	1.52	0.72			1	20 A	RECEPT	102	6	
	7	107	DWS-1	20 A	1			0.18	0.72	1	20 A	RECEPT	102	8	
	9	107	DWH-2	20 A	1	0.18	0.72			1	20 A	RECEPT	102	10	
	11	107	DWH-1	20 A	1			0.18	0.18	1	20 A	TV	102	12	
	13	107	HWCP-1	20 A	1	0.53	0.36			1	20 A	TECH	103	14	
	15	EXTERIOR	CU-1	50 A	2			3.58	0.72	1	20 A	RECEPT	200	16	
--	17	--	--	--	--	3.58	1.20			1	20 A	REFG	200	18	
	19	EXTERIOR	CU-2	50 A	2			3.35	0.36	1	20 A	RECEPT	200	20	
--	21	--	--	--	--	3.35	0.54			1	20 A	RECEPT	201	22	
	23	204	DS-2	20 A	2			0.12	0.72	1	20 A	RECEPT	201	24	
--	25	--	--	--	--	0.12	0.72			1	20 A	RECEPT	201	26	
--	27	SPARE		20 A	1			0.00	0.54	1	20 A	RECEPT	201	28	
--	29	SPARE		20 A	1	0.00	0.90			1	20 A	RECEPT	203	30	
--	31	SPARE		20 A	1			0.00	0.54	1	20 A	RECEPT	206	32	
--	33	SPARE		20 A	1	0.00	0.54			1	20 A	RECEPT	206	34	
--	35	SPARE		20 A	2			0.00	0.18	1	20 A	TV	206	36	
--	37	--	--	--	--	0.00	0.54			1	20 A	RECEPT	EXTERIOR	38	
--	39	SPARE		50 A	2			0.00	0.18	1	20 A	RECEPT	EXTERIOR	40	
--	41	--	--	--	--	0.00	0.00			1	20 A		SPARE	42	--
				TOTAL LOAD:		16.77 kVA		13.77 kVA							
				TOTAL AMPS:		140 A		115 A							

TOTAL CONNECTED LOAD:	30.54 kVA		31.01 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS:	140 A		129 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	12900 VA	88.76%	11450 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	770 VA	117.21%	903 VA
G	GFCI PROTECTED	Mechanical - Equipment	16871 VA	110.60%	18659 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES: 1) U.L. LISTED FOR SERVICE ENTRANCE.

BRANCH CIRCUIT PANELBOARD SCHEDULE

DESIGNATION: ATS-1 **VOLTS:** 120/240 V **MAINS RATING:** 100 A
LOCATION: Space 6 **PHASES:** 1 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 3
SUPPLY FROM: 12C2 **AIC RATING:** 22,000

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	104	REFRIG	15 A	1	1.20	0.00			1	15 A		SPARE	2	--
	3	104	FREEZE	15 A	1			1.20	0.00	1	15 A		SPARE	4	--
	5	107	N GEN	20 A	1	0.72	0.00			1	20 A		SPARE	6	--
--	7	SPACE		--	1			--	--	1	--		SPACE	8	--
--	9	SPACE		--	1	--	--			1	--		SPACE	10	--
--	11	SPACE		--	1			--	--	1	--		SPACE	12	--
				TOTAL LOAD:		1.92 kVA		1.20 kVA							
				TOTAL AMPS:		16 A		10 A							

TOTAL CONNECTED LOAD:	3.12 kVA		3.30 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS:	16 A		14 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	2400 VA	100.00%	2400 VA
C	CONTACTOR CONTROLLED	Mechanical - Equipment	720 VA	125.00%	900 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE (PERMANENT IN OFF)				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES: 1) PROVIDE CIRCUIT BREAKERS COMPATABLE WITH CIRCUIT BREAKER SECTION OF ATS.

BRANCH CIRCUIT PANELBOARD SCHEDULE

DESIGNATION: 12C2 **VOLTS:** 120/240 V **MAINS RATING:** 225 A
LOCATION: Space 6 **PHASES:** 1 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 3 **MCB RATING:** 225 A
SUPPLY FROM: **AIC RATING:** 14,000 **MCB OPTIONS:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	104	DISH...	20 A	2	6.24	0.71			1	20 A	LIGHTING	100,101,103,104,105,107,108,109,110	2	
--	3	--	--	--	--			6.24	0.01	1	20 A	LIGHTING	102	4	
	5	104	HEATCAB	20 A	1	1.20	0.37			1	20 A	LIGHTING	200,203,206	6	
	7	104	HEATCAB	20 A	1			1.20	0.24	1	20 A	LIGHTING	201,202	8	
	9	104	ICECREAM	20 A	1	0.18	0.03			1	20 A	LIGHTING	EXTERIOR	10	
	11	104	AC-1	15 A	1			0.53	0.30	1	20 A	LIGHTING	EXTERIOR	12	
	13	104	RECEPT	20 A	1	0.18	0.00			1	20 A		SPARE	14	--
	15	104	RECEPT	20 A	1			0.18	0.00	1	20 A		SPARE	16	--
	17	104	RECEPT	20 A	1	0.18	0.00			1	20 A		SPARE	18	--
	19	104	RECEPT	20 A	1			0.36	0.00	1	20 A		SPARE	20	--
	21	104	CR	20 A	1	0.50	0.00			1	20 A		SPARE	22	--
	23	104	CR	20 A	1			0.50	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00			1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00	1	20 A		SPARE	28	--
--	29	SPARE		20 A	1	0.00	0.00			1	20 A		SPARE	30	--
--	31	SPARE		20 A	1			0.00	0.00	1	20 A		SPARE	32	--
--	33	SPARE		20 A	1	0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	2			0.00	0.00	1	20 A		SPARE	36	--
--	37	--	--	--	--	0.00	0.00			1	20 A		SPARE	38	--
	39	ATS-1		100 A	2			1.92	0.00	1	20 A		SPARE	40	--
--	41	--	--	--	--	1.20	0.00			1	20 A		SPARE	42	--
				TOTAL LOAD:		10.79 kVA		11.48 kVA							
				TOTAL AMPS:		90 A		96 A							

TOTAL CONNECTED LOAD:	22.27 kVA		18.10 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS:	96 A		75 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	19360 VA	75.83%	14680 VA
C	CONTACTOR CONTROLLED	Lighting - Interior	1329 VA	125.00%	1661 VA
G	GFCI PROTECTED	Mechanical - Equipment	1248 VA	114.42%	1428 VA
P	HANDLE LOCKING DEVICE	Other	60 VA	100.00%	60 VA
S	SHUNT TRIP	LE	0 VA	0.00%	0 VA
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

PANELBOARD SCHEDULES

E-603.4

E-603.4 - PANELBOARD SCHEDULES
20-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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TELECOMMUNICATIONS DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

ACCEPTANCE TEST - A TEST OR SET OF TESTS PERFORMED TO DEMONSTRATE SATISFACTORY COMPLETION OF A PREDETERMINED TASK OR GROUP OF TASKS ON WHICH ACCEPTANCE IS DEPENDANT.

ACCESS POINT (AP) - THE CENTRAL OR CONTROL POINT IN A WIRELESS CELL THAT ACTS AS A LINK FOR TRAFFIC TO AND FROM WIRELESS DEVICES IN THE CELL. THE AP ALSO CONNECTS WIRELESS DEVICES TO THE WIRED PORTION OF THE NETWORK.

ACTIVE CIRCUIT - A VOICE/DATA/VIDEO CHANNEL CONNECTED TO A CIRCUIT.

ACTIVE EQUIPMENT - ENERGIZED EQUIPMENT USED FOR RECEIVING OR TRANSMITTING ANALOG OR DIGITAL SIGNALS.

ADMINISTRATION - THE METHODOLOGY DEFINING THE DOCUMENTATION REQUIREMENTS OF A CABLING SYSTEM AND ITS CONTAINMENT, THE LABELING OF FUNCTIONAL ELEMENTS AND THE PROCESS BY WHICH MOVES, ADDS, AND CHANGES ARE RECORDED. (ISO)

ALIEN CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS IN A GIVEN CABLE TO OTHER CIRCUITS IN ANOTHER CABLE.

ATTENUATION - THE DECREASE IN MAGNITUDE OF TRANSMISSION SIGNAL STRENGTH BETWEEN POINTS, EXPRESSED IN DB AS THE RATIO OF OUTPUT TO INPUT SIGNAL LEVEL.

ATTENUATION-TO-CROSSTALK RATION (ACR) - THE RATIO OBTAINED BY SUBTRACTING INSERTION LOSS (ATTENUATION [DB]) FROM NEAR-END CROSSTALK (DB). ACR IS NORMALLY STATED AT A GIVEN FREQUENCY. SEE SIGNAL-TO-NOISE RATIO.

BACKBONE - A FACILITY (E.G., PATHWAY, CABLE, OR CONDUCTORS) BETWEEN ANY OF THE FOLLOWING SPACES: TELECOMMUNICATIONS ENCLOSURES, TELECOMMUNICATIONS ROOMS, EQUIPMENT ROOMS, AND ENTRANCE FACILITIES.

BACKBONE BONDING CONDUCTOR - A COPPER CONDUCTOR EXTENDING FROM THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TO THE FARTHEST FLOOR TELECOMMUNICATIONS GROUNDING BUSBAR. (TIA)

BALANCED TWISTED-PAIR CABLE - A MULTI-CONDUCTOR CABLE COMPRISING TWO OR MORE COPPER CONDUCTORS TWISTED IN A MANNER DESIGNED TO CANCEL ELECTRICAL INTERFERENCE.

BANDWIDTH - A MEASURE OF THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL, TYPICALLY EXPRESSED IN HERTZ. IT IS USED TO DENOTE THE POTENTIAL TRANSMISSION CAPACITY OF THE MEDIUM, DEVICE, OR SYSTEM.

BEND RADIUS - 1. MAXIMUM RADIUS THAT A CABLE CAN BE BENT TO AVOID PHYSICAL OR ELECTRICAL DAMAGE OR CAUSE ADVERSE TRANSMISSION PERFORMANCE. 2. RADIUS OF CURVATURE THAT A MEDIA CAN BEND WITHOUT SIGNAL DEGRADATION.

BICSI - AN INTERNATIONAL TELECOMMUNICATIONS ASSOCIATION.

BONDING - THE PERMANENT JOINING OF METALLIC PARTS TO FORM AN ELECTRICALLY CONDUCTIVE PATH THAT WILL ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY CURRENT LIKELY TO BE IMPOSED. (TIA)

BONDING CONDUCTOR (BC) - A CONDUCTOR USED SPECIFICALLY FOR THE PURPOSE OF BONDING.

BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) - A CONDUCTOR THAT INTERCONNECTS THE BUILDINGS SERVICE EQUIPMENT (POWER) GROUND TO THE TELECOMMUNICATIONS GROUNDING SYSTEM.

BORING - A METHOD TO DISPLACE EARTH UNDER THE GROUND WITHOUT BREAKING THE GROUND SURFACE (TRENCHING) OR CUTTING GROUND SURFACES (E.G., SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND ROAD SURFACES). NORMALLY, AS DIRT IS DISPLACED OR REMOVED, CONDUIT IS INSERTED.

CABLING SYSTEM - A SPECIFIC SYSTEM OF TELECOMMUNICATIONS CABLES, EQUIPMENT/PATCH CORDS, CONNECTING HARDWARE, AND OTHER COMPONENTS THAT IS SUPPLIED AS A SINGLE ENTITY.

CARD READER - A SECURITY SYSTEM DEVICE THAT READS CODED CARDS.

CATEGORY - A RATING THAT DEFINES THE PERFORMANCE OF CABLING COMPONENTS AND SYSTEMS.

CELL - THE FIXED AREA IN WHICH A WIRELESS DEVICES OPERATES.

COMMUNICATIONS - SEE TELECOMMUNICATIONS.

CROSS-CONNECT - A FACILITY ENABLING THE TERMINATION OF CABLE ELEMENTS AND THEIR INTERCONNECTION OR CROSS-CONNECTION. (TIA)

CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS TO OTHER CIRCUITS.

CUTOVER - THE PROCESS OF SWITCHING FROM OLD NETWORK COMPONENTS TO NEW NETWORK COMPONENTS.

DAISY-CHAIN TOPOLOGY - DEVICES ARE CONNECTED IN SERIES, ONE AFTER THE OTHER, AND THE TRANSMITTED SIGNALS GO TO THE FIRST DEVICES, THEN THE SECOND, ETC.

DATA - ELECTRONICALLY ENCODED INFORMATION. (TIA)

DATA COMMUNICATION - THE TRANSMISSION AND RECEPTION OF ELECTRONICALLY CODED INFORMATION.

DATA NETWORK - AN INTERCONNECTED SYSTEM OF COMPUTERS, PERIPHERALS, AND SOFTWARE OVER WHICH COMMANDS, FILES, AND MESSAGES ARE SENT AND RECEIVED.

DECIBEL (DB) - A LOGARITHMIC UNIT FOR MEASURING THE RELATIVE POWER OR STRENGTH OF A SIGNAL.

DELAY SKEW - THE DIFFERENCE IN PROPAGATION DELAY BETWEEN ANY TWO PAIRS WITHIN THE SAME CABLE SHEATH. (TIA)

DEMARCATION POINT (DP) - 1. A POINT WHERE THE OPERATIONAL CONTROL OR OWNERSHIP CHANGES. (TIA) 2. THE POINT OF INTERFACE BETWEEN SERVICE PROVIDERS AND CUSTOMER FACILITIES.

DIELECTRIC - 1. THE NONCONDUCTIVE PROPERTIES OF AN INSULATING MATERIAL THAT RESISTS THE PASSAGE OF ELECTRIC CURRENT. THE INSULATION SURROUNDING A COPPER CONDUCTOR IS KNOWN AS A DIELECTRIC. 2. A MATERIAL THAT IS NONMETALLIC AND NONCONDUCTIVE. 3. A NONCONDUCTOR OF DIRECT ELECTRIC CURRENT.

DIRECT-BURIED CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH, IN DIRECT CONTACT WITH THE SOIL. (TIA)

ELECTROMAGNETIC INTERFERENCE (EMI) - RADIATED OR CONDUCTED ELECTROMAGNETIC ENERGY THAT HAS AN UNDESIRABLE EFFECT ON ELECTRONIC EQUIPMENT OR SIGNAL TRANSMISSIONS. (TIA)

EQUAL LEVEL FAR-END CROSSTALK (ELFEXT) - CROSSTALK MEASURED AT THE OPPOSITE END FROM WHICH THE DISTURBING SIGNAL IS TRANSMITTED, NORMALIZED BY THE ATTENUATION CONTRIBUTION OF THE CABLE OR CABLING.

FAR-END CROSSTALK (FEXT) LOSS - A MEASURE OF THE UNWANTED SIGNAL COUPLING FROM A TRANSMITTER AT THE NEAR END INTO ANOTHER PAIR MEASURED AT THE FAR END, AND RELATIVE TO THE TRANSMITTED SIGNAL LEVEL. ALSO CALLED INPUT/OUTPUT FAR END CROSSTALK LOSS. (TIA)

FAULT TOLERANCE - THE ABILITY OF A SYSTEM TO CONTINUE OPERATIONS AFTER THE FAILURE OF ONE OR MORE COMPONENTS.

FIBER OPTICS - A COMMUNICATION SYSTEM THAT USES OPTICAL FIBER AS ITS MEDIUM.

GIGABIT PER SECOND (GB/S) - A TRANSMISSION RATE DENOTING ONE BILLION BITS PER SECOND.

GIGAHERTZ (GHZ) - A UNIT OF FREQUENCY DENOTING ONE BILLION CYCLES PER SECOND (HERTZ).

HERTZ (HZ) - 1. A UNIT OF MEASURE USED TO EXPRESS THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. THIS RANGE IS ALSO CALLED BANDWIDTH. 2. A UNIT OF FREQUENCY EQUAL TO ONE CYCLE PER SECOND.

HOME RUN - A PATHWAY OR CABLE BETWEEN TWO LOCATIONS WITHOUT A SPLICE OR INTERMEDIATE TERMINATIONS POINTS IN BETWEEN.

HORIZONTAL CABLE - 1. A PERMANENT ELEMENT OF THE HORIZONTAL CABLING THAT CONNECTS THE TELECOMMUNICATIONS OUTLET/CONNECTOR AT THE WORK AREA AND THE FIRST PIECE OF CONNECTING HARDWARE IN THE HORIZONTAL OR MAIN CROSS-CONNECT. 2. FOUR PAIR 24 AWG UNSHIELDED TWISTED PAIR (UTP).

HORIZONTAL CROSS-CONNECT - A GROUP OF CONNECTORS THAT ALLOWS EQUIPMENT AND BACKBONE CABLING TO BE CROSS-CONNECTED.

INNERDUCT - A NONMETALLIC RACEWAY, USUALLY CIRCULAR, PLACED WITHIN A LARGER PATHWAY. (TIA)

INTERMEDIATE CROSS-CONNECT (IC) - THE CONNECTION POINT BETWEEN A BACKBONE CABLE THAT EXTENDS FROM THE MAIN CROSS-CONNECT AND THE BACKBONE CABLE FROM THE HORIZONTAL CROSS-CONNECT.

LATENCY - THE TIME IT TAKES FOR A SIGNAL TO PASS THROUGH A DEVICE OR NETWORK.

LOW-VOLTAGE CABLING/CABLING SYSTEM - TELECOMMUNICATIONS SIGNALING (INCLUDES BUILDING AUTOMATION SIGNALING) VOLTAGE LEVELS ARE TYPICALLY POWER-LIMITED WHEN COMPARED TO ELECTRICAL POWER CIRCUITS THAT CAN VARY FROM 100 VOLTS ALTERNATING CURRENT (AC) TO 240 VOLTS AC IN COMMERCIAL BUILDINGS. CIRCUITS TYPICALLY USE AN INHERENTLY LIMITED POWER SOURCE WITHOUT OVER-CURRENT PROTECTION OR A NONINHERENTLY LIMITED POWER SOURCE WHERE OVERCURRENT PROTECTION IS REQUIRED. SINCE TELECOMMUNICATIONS CABLING SYSTEMS ARE NOT USED TO DISTRIBUTE ELECTRICAL POWER, THE SIGNALING THAT OCCURS ON THESE COPPER-BASED SYSTEMS IS GENERALLY DESCRIBED AS LOW VOLTAGE.

MAIN CROSS-CONNECT (MC) - THE CROSS-CONNECT NORMALLY LOCATED IN THE (MAIN) TELECOMMUNICATIONS EQUIPMENT ROOM (ER) FOR CROSS-CONNECTION AND INTERCONNECTION OF ENTRANCE CABLES, FIRST-LEVEL BACKBONE CABLES, AND EQUIPMENT CABLES.

NEAR-END CROSSTALK (NEXT) LOSS - 1. THE UNWANTED SIGNAL COUPLING BETWEEN PAIRS. IT IS MEASURED AT THE END OF A CABLE NEAREST THE POINT OF TRANSMISSION. CONTRAST WITH FAR-END CROSSTALK. 2. THE SIGNAL TRANSFER BETWEEN CIRCUITS AT THE SAME (NEAR) END OF THE CABLE.

NETWORK - A GROUP OF THREE OR MORE NODES THAT CAN COMMUNICATE WITH EACH OTHER, EITHER DIRECTLY THROUGH CABLING OR INDIRECTLY THROUGH REPEATERS TO SEPARATE CABLING.

OUTSIDE PLANT (OSP) - TELECOMMUNICATIONS INFRASTRUCTURE DESIGNED FOR INSTALLATION EXTERIOR TO BUILDINGS.

PAIR - TWO INSULATED WIRES TWISTED AROUND EACH OTHER.

PAIR TWIST - THE UNIFORM TWIST OF AN INSULATED COPPER PAIR THAT HELPS TO REDUCE THE NEGATIVE EFFECTS OF CAPACITANCE IMBALANCE AND ELECTROMAGNETIC INDUCTION.

PATCH CORD - A LENGTH OF CABLE WITH A PLUG ON ONE OR BOTH ENDS.

PATCH PANEL - A CONNECTING HARDWARE SYSTEM THAT FACILITATES CABLE TERMINATION AND CABLING ADMINISTRATION USING PATCH CORDS.

PATHWAY - 1. A SEQUENCE OF CONNECTIONS THAT PROVIDES THE CONNECTIVITY BETWEEN DEVICES ON A NETWORK OR BETWEEN NETWORKS ON AN INTERNETWORK. 2. THE VERTICAL AND HORIZONTAL ROUTE OF THE TELECOMMUNICATIONS CABLE. 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA) 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA)

POWER SUM - USED TO SPECIFY A COMBINATION CROSSTALK FROM MULTIPLE SOURCES.

POWER SUM ATTENUATION-TO-CROSSTALK RATIO - A RATIO IN DB, DETERMINED BY SUBTRACTING THE INSERTION LOSS FROM TH EPOWER SUM NEAR-END CROSSTALK LOSS. (TIA)

POWER SUM EQUAL LEVEL FAR-END CROSSTALK (PSELFEXT) - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE FAR-END, AND NORMALIZED TO THE RECEIVED SIGNAL LEVEL. (TIA)

POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE NEAR-END. (TIA)

PULL TENSION - THE PULLING FORCE THAT CAN BE APPLIED TO A CABLE. (TIA)

PUNCH DOWN - THE PROCESS OF TERMINATING COPPER CABLE CONDUCTORS ON INSULATION DISPLACEMENT CONNECTION TERMINALS BY USE OF A HANDHELD TOOL.

QUEUING - A TECHNIQUE THAT REDUCES TRANSMISSION DELAYS BY CLASSIFYING AND SORTING DATA PRIOR TO PROCESSING BY THE TRANSMITTING DEVICE.

RACEWAY - ANY ENCLOSED CHANNEL DESIGNED FOR HOLDING WIRES OR CABLES. (TIA)

RADIO FREQUENCY INTERFERENCE - ELECTROMAGNETIC INTERFERENCE WITHIN THE FREQUENCY BAND FOR RADIO TRANSMISSION.

RETURN LOSS - A RATIO, EXPRESSED IN DB, OF THE POWER OF THE OUTGOING SIGNAL TO THE POWER OF THE REFLECTED SIGNAL. (TIA)

REVERSED PAIR - A CONDITION IN WHICH THE CONDUCTORS IN A PAIR ARE TERMINATED IN THE WRONG SEQUENCE.

DEFINITIONS (CONTINUED)

RIBBON CABLE - AN ASSEMBLY OF CONDUCTORS LAID SIDE BY SIDE IN A GEOMETRIC PLANE AND FASTENED TOGETHER.

SCALABILITY - THE ABILITY OF A NETWORK TO GROW WITHOUT DEGRADATION OF QUALITY.

SERVICE LOOP - A SURPLUS OF CABLE AT THE POINT OF TERMINATION TO FACILITATE POTENTIAL FUTURE CHANGES.

SHIELDED ENCLOSURE CABINET - A METAL ELECTRONICS CABINET CONSTRUCTED WITH WELDED SEAMS AND CONDUCTIVE GASKETS ON THE DOORS THAT SERVE AS AN EFFECTIVE SHIELD AGAINST ELECTROMAGNETIC RADIATION.

SPLIT PAIR - TRANSPOSITION OF TWO CONDUCTORS OF SEPARATE PAIRS.

STAR TOPOLOGY - A NETWORK TOPOLOGY IN WHICH SERVICES ARE DISTRIBUTED FROM A CENTRAL POINT.

STRUCTURED CABLING SYSTEM - THE COMPLETE COLLECTIVE CONFIGURATION OF TELECOMMUNICATIONS CABLING AND ASSOCIATED HARDWARE AT A GIVEN LOCATION.

SWEEP - BEND THAT HAS A GENTLE ARC RATHER THAN A SHARP BEND.

TELECOMMUNICATIONS - ANY TRANSMISSION, EMISSION, AND RECEPTION OF SIGNS, SIGNALS, WRITINGS, IMAGES, AND SOUNDS, THAT IS, INFORMATION OF ANY NATURE BY CABLE, RADIO, OPTICAL, OR OTHER ELECTROMAGNETIC SYSTEMS. (TIA)

TELECOMMUNICATIONS BONDING BACKBONE - A CONDUCTOR THAT INTERCONNECTS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) TO THE TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). (TIA)

TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR - A CONDUCTOR INSTALLED FROM EACH PIECE OF EQUIPMENT TO THE TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.

TELECOMMUNICATIONS CABINET - AN ENCLOSURE USED FOR TERMINATING TELECOMMUNICATIONS CABLES, WIRING, AND CONNECTION DEVICES WITH A HINGED COVER, USUALLY FLUSH-MOUNTED IN THE WALL. (TIA)

TELECOMMUNICATIONS ENCLOSURE - A CASE OR HOUSING FOR TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS ENTRANCE FACILITY - AN ENTRANCE TO A BUILDING FOR BOTH PUBLIC AND PRIVATE NETWORK SERVICE CABLES (INCLUDING WIRELESS) INCLUDING THE ENTRANCE POINT AT THE BUILDING WALL AND CONTINUING TO THE ENTRANCE ROOM OR SPACE. (TIA) 2. A FACILITY THAT PROVIDES ALL NECESSARY MECHANICAL AND ELECTRICAL SERVICES, THAT COMPLIES WITH ALL RELEVANT REGULATIONS, FOR THE ENTRY OF TELECOMMUNICATIONS CABLES INTO A BUILDING. (ISO)

TELECOMMUNICATIONS EQUIPMENT ROOM - AN ENVIRONMENTALLY CONTROLLED CENTRALIZED SPACE FOR TELECOMMUNICATIONS EQUIPMENT THAT USUALLY HOUSES A MAIN OR INTERMEDIATE CROSS-CONNECT. (TIA)

TELECOMMUNICATIONS GROUNDING BUSBAR - A COMMON POINT OF CONNECTION FOR TELECOMMUNICATIONS SYSTEM AND EQUIPMENT BONDING TO GROUND, AND LOCATED IN THE TELECOMMUNICATIONS ROOM OR EQUIPMENT ROOM.

TELECOMMUNICATIONS INFRASTRUCTURE - A COLLECTION OF THOSE TELECOMMUNICATIONS COMPONENTS, EXCLUDING EQUIPMENT, THAT TOGETHER PROVIDE THE BASIC SUPPORT FOR THE DISTRIBUTION OF ALL INFORMATION WITHIN A BUILDING OR CAMPUS.

TELECOMMUNICATIONS MAINTENANCE HOLE - A VAULT LOCATED IN THE GROUND OR EARTH AS PART OF A UNDERGROUND DUCT SYSTEM AND USED TO FACILITY PLACING, CONNECTORIZATION, AND MAINTENANCE OF CABLES AS WELL AS THE PLACING OF ASSOCIATED EQUIPMENT, IN WHICH IT IS EXPECTED THAT A PERSON WILL ENTER TO PERFORM WORK. (TIA)

TELECOMMUNICATIONS MEDIA - WIRE, CABLE, OR CONDUCTORS USED FOR TELECOMMUNICATIONS. (TIA)

TELECOMMUNICATIONS OUTLET/CONNECTOR - A CONNECTING DEVICE IN THE WORK AREA ON WHICH HORIZONTAL CABLE OR OUTLET CABLE TERMINATES.

TELECOMMUNICATION ROOM - AN ENCLOSED ARCHITECTURAL SPACE FOR HOUSING TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS SPACE - AN AREA USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE (E.G., COMMON EQUIPMENT ROOMS, EQUIPMENT ROOMS, COMMON TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ROOMS, WORK AREAS, MAINTENANCE HOLES/HANDHOLES). (TIA)

TRANSPOSED PAIRS - WHEN TWO PAIRS OF CONDUCTORS ARE TERMINATED IN EACH OTHER'S LOCATION.

UNDERGROUND - REFERS TO CONDUIT AND MAINTENANCE HOLES SYSTEMS INSTALLED BELOW THE SURFACE OF THE GROUND.

UNDERGROUND CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH IN A TROUGH OR DUCT THAT ISOLATES THE CABLE FROM DIRECT CONTACT WITH THE SOIL. (TIA)

UTILITY COLUMN - AN ENCLOSED PATHWAY EXTENDING FROM THE CEILING TO FURNITURE OR TO THE FLOOR THAT FORMS A PATHWAY FOR ELECTRICAL WIRING, TELECOMMUNICATIONS CABLE, OR BOTH. (TIA)

WORK AREA (WORK STATION) - A BUILDING SPACE WHERE THE OCCUPANTS INTERACT WITH TELECOMMUNICATIONS TERMINAL EQUIPMENT. (TIA)

WORK AREA CABLE (CORD) - A CABLE CONNECTING THE TELECOMMUNICATIONS OUTLET/CONNECTOR TO THE TERMINAL EQUIPMENT.

WORK AREA OUTLET - A CONNECTING DEVICE FOR TERMINATION OF HORIZONTAL MEDIA.

ABBREVIATIONS

8P8C - EIGHT PIN, EIGHT CONNECTOR UTP CABLE TERMINATION
ACR - ATTENUATION-TO-CROSSTALK RATIO
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
AWG - AMERICAN WIRE GAUGE
BAS - BUILDING AUTOMATION SYSTEM
BC - BONDING CONDUCTOR
BCT - BONDING CONDUCTOR FOR TELECOMMUNICATIONS
BICSI - BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
CO-OSP - CUSTOMER-OWNED OUTSIDE PLANT
DB - DECIBEL
DEMARC - DEMARCATION POINT
DPS - DOOR POSITION SWITCH
EAC - ELECTRONIC ACCESS CONTROL
EF - ENTRANCE FACILITY
EIA - ELECTRONIC INDUSTRIES ALLIANCE
EMI - ELECTROMAGNETIC INTERFERENCE
ER - TELECOMMUNICATIONS EQUIPMENT ROOM
FCC - FEDERAL COMMUNICATIONS COMMISSION
GB - GIGABIT
GHZ - GIGAHERTZ
HC - HORIZONTAL CROSS-CONNECT
HZ - HERTZ
IBC - INTERCONNECTING BONDING CONDUCTOR
IC - INTERMEDIATE CROSS-CONNECT
IDC - INSULATION DISPLACEMENT CONNECTION (OR)
IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
KB - KILOBIT
KB - KILOBYTE
KHZ - KILOHERTZ
KM - KILOMETER
LEC - LOCAL EXCHANGE CARRIER
LAN - LOCAL AREA NETWORK
LASER - LIGHT AMPLIFICATION BY STIMULATED EMISSION OF RADIATION
LED - LIGHT-EMITTING DIODE
MB - MEGABIT
MC - MAIN CROSS-CONNECT
MH - TELECOMMUNICATIONS MAINTENANCE HOLE
MHZ - MEGAHERTZ
MUTO - MULTI-USER TELECOMMUNICATIONS OUTLET
MUTOA - MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NOS - NETWORK OPERATING SYSTEM
NEC - NATIONAL ELECTRIC CODE
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
NTS - NETWORK TRANSPORT SYSTEMS
OS - OPERATING SYSTEM
PSACR - POWER SUM ATTENUATION TO CROSSTALK RATIO
PSELFEXT - POWER SUM EQUAL LEVEL FAR-END CROSSTALK
QOS - QUALITY-OF-SERVICE
RCDD - REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RFI - RADIO FREQUENCY INTERFERENCE
RFID - RADIO FREQUENCY IDENTIFICATION
RGB - RED, GREEN, BLUE
SONET - SYNCHRONOUS OPTICAL NETWORK
SPOOL - SIMULTANEOUS PERIPHERAL OPERATION ONLINE
TBB - TELECOMMUNICATIONS BONDING BACKBONE
TDMM - TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR - TELECOMMUNICATIONS ROOM
UTP - UNSHIELDED TWISTED PAIR
VCSEL - VERTICAL CAVITY SURFACE EMITTING LASER
VGA - VIDEO GRAPHICS ARRAY
VOD - VIDEO-ON-DEMAND
VOIP - VOICE OVER INTERNET PROTOCOL
WAP - WIRELESS ACCESS POINT
WLAN - WIRELESS LOCAL AREA NETWORK
X - CROSS-CONNECT

TELECOMMUNICATIONS SYS.	SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
1	TELECOMMUNICATIONS OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	PROVIDE SINGLE REDUCER
1	TELECOMMUNICATIONS COUNTERTOP OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	2" ABV. BACKSPLASH TO BOTTOM	PROVIDE SINGLE REDUCER ALIGN WITH POWER RECEPTACLE
4/V	TELECOMMUNICATIONS AUDIO / VIDEO OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(2) 1-1/4" CONDUITS, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	- -
AP	WIRELESS ACCESS POINT OUTLET (CEILING MOUNTED)	CABLING (UTP)	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	- -
	CABLE TRAY	CABLE TRAY AND ASSOCIATED HARDWARE	- -	+96" A.F.F. TO BOTTOM	REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
	TELECOMMUNICATIONS CABINET	CABINET (AS SPECIFIED)	- -	FLOOR MOUNTED	- -
	TELECOMMUNICATIONS RACK	RACK (AS SPECIFIED)	- -	FLOOR MOUNTED	- -

SOUND SYSTEMS	SCOPE OF WORK	ROUGH-IN INFORMATION	MOUNTING HEIGHT	NOTES
S	INTERCOM SPEAKER (CEILING MOUNTED)	CABLING SPEAKER	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	- -
S	INTERCOM SPEAKER (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
S	INTERCOM SPEAKER HORN (CEILING MOUNTED)	CABLING SPEAKER	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS	- -
S	INTERCOM SPEAKER HORN (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
M	MICROPHONE OUTLET (# INDICATES JACK QTY.)	ROUGH-IN CABLING MIC CONNECTOR	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+18" A.F.F. WALL MTD.	- -
V	VOLUME CONTROL	ROUGH-IN, CABLING, VOLUME CONTROL	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
SL	LOCAL SOUND REINFORCEMENT SPEAKER (CEILING MOUNTED)	CABLING SPEAKER	- -	CEILING MOUNTED SEE RCP	- -
SL	LOCAL SOUND REINFORCEMENT SPEAKER (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
SR	SOUND SYSTEM CENTRAL EQUIPMENT CABINET	ROUGH-IN CABLING CABINET	- -	WALL MOUNTED	- -
CI	CALL-IN BUTTON	ROUGH-IN CABLING BUTTON DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
	BUTTON	ROUGH-IN CABLING BUTTON DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
	WALL MOUNTED CLOCK	ROUGH-IN CABLING CLOCK	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
	RINGER / BELL DEVICE	ROUGH-IN CABLING BELL DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -

SECURITY SYSTEMS	SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
	SURVEILLANCE CAMERA (CEILING MOUNTED)	UTP CABLING, CAMERA	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	- -
	SURVEILLANCE CAMERA (WALL MOUNTED)	ROUGH-IN, UTP CABLING,	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
CR	CARD READER	ROUGH-IN CABLING	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
EAC	ELECTRONIC ACCESS CONTROL INTERFACE	CABLING CONTROL MODULE	- -	ABOVE ACCESSIBLE CEILING	SEE EAC DOOR SCHEMATIC DIAGRAM
	ACCESS CONTROL	ROUGH-IN CABLING CONTROL DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
	SECURITY CONTROL	ROUGH-IN CABLING CONTROL DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -

VIDEO SYSTEMS	SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
DM	CEILING MOUNTED DISPLAY MONITOR	MOUNT, CABLING,	- -	AS NOTED ON PLANS	- -
DM	WALL- MOUNTED DISPLAY MONITOR	ROUGH-IN, MOUNT CABLING,	(2) 1 1/4" CONDUIT, (1) 2-GANG BOX	AS NOTED ON PLANS	- -
EP	CEILING-MOUNT PROJECTOR	ROUGH-IN, MOUNT, CABLING, PROJECTOR	PROJECTOR CEILING PAN	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	SEE PROJECTOR PAN DETAIL
PR	WALL-MOUNT PROJECTOR	ROUGH-IN, MOUNT CABLING, PROJECTOR	(2) 1 1/4" CONDUIT, (1) 2-GANG BOX		- -

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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced JLB

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Hempstead

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

SYMBOLS & ABBREVIATIONS

T-001.4

T-001.4 - SYMBOLS & ABBREVIATIONS
2021-036 GAH - NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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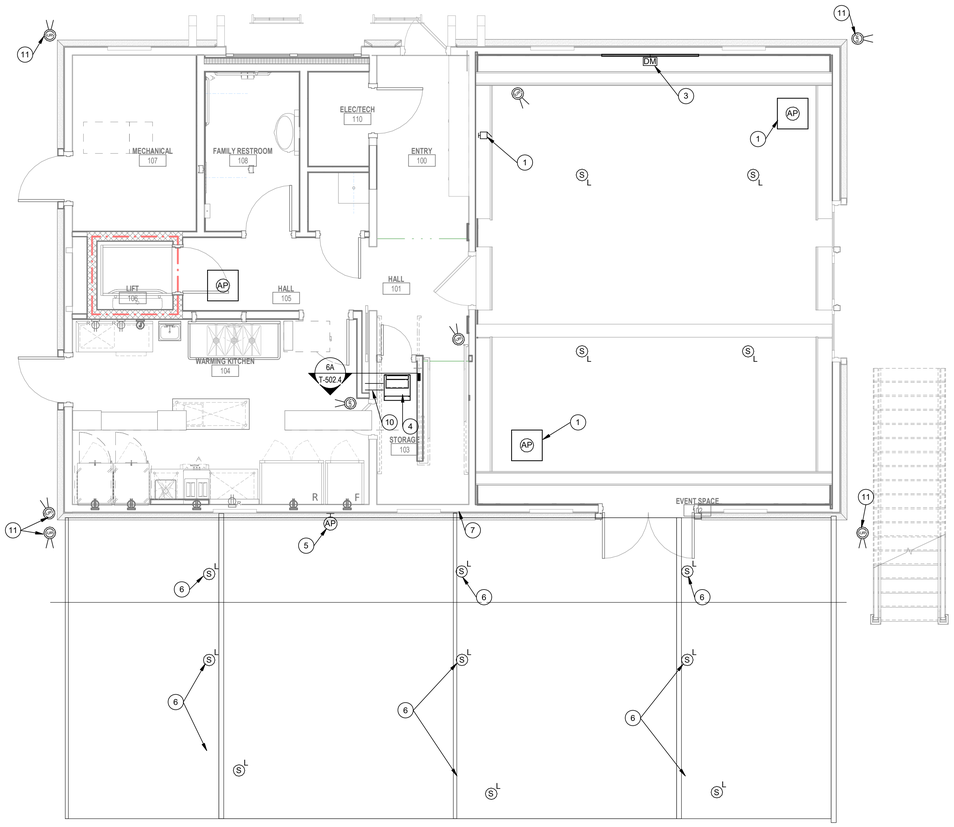
GENERAL TELECOMMUNICATIONS NOTES

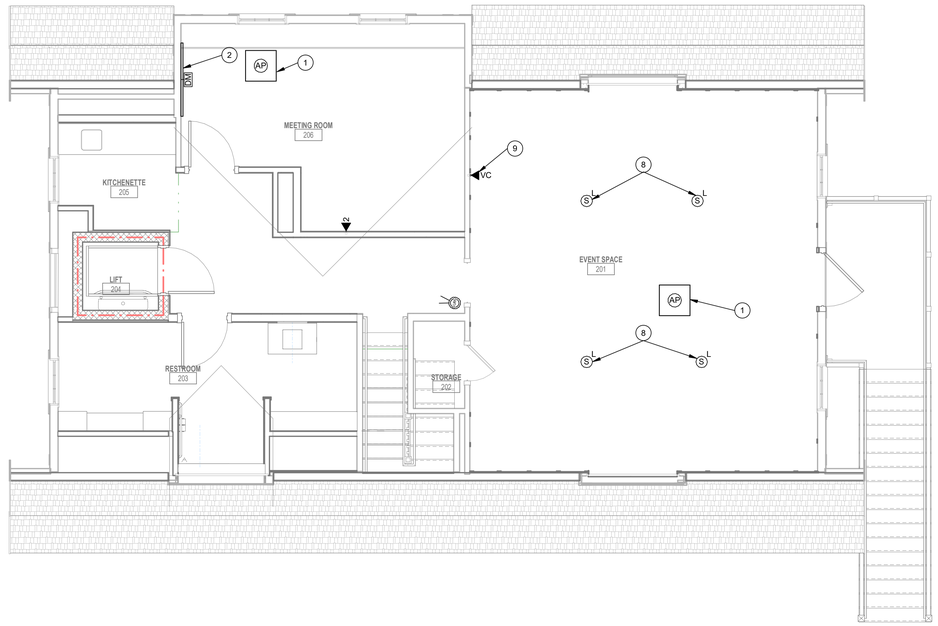
#	NOTES
A	REFER TO SHEET T-001 FOR ADDITIONAL INFORMATION.

TELECOMMUNICATIONS PLAN NOTES

#	NOTES
1	PROVIDE (1) CAT 6A CABLE FOR CEILING MOUNT WIRELESS ACCESS POINT
2	PROVIDE DIGITAL DISPLAY MONITOR ROUGH IN 7' A.F.F.
3	PROVIDE DIGITAL DISPLAY MONITOR ROUGH IN 7'8" A.F.F.
4	PROVIDE DATA / AV RACK AS SPECIFIED.
5	PROVIDE ROUGH IN 11' AND (1) CAT 6A CABLE FOR OFOI WIRELESS ACCESS POINT.
6	MOUNT SPEAKER TO WOOD PERGOLA AND ROUTE CABLING TO SOUND RACK IN ROOM 104
7	PROVIDE PATHWAY FOR SPEAKER WIRING AND ROUTE SPEAKER CABLING TO RACK IN ROOM 103.
8	PROVIDE CEILING MOUNT SOUND SYSTEM SPEAKERS AND ROUTE CABLING TO ROOM 103.
9	PROVIDE SPEAKER VOLUME CONTROL. ROUTE CABLING TO ROOM 104.
10	PROVIDE PATHWAYS TO ROOM 103 FOR CABLE ROUTING
11	PROVIDE OFOI SURVEILLANCE CAMERA ROUGH IN ROOF SOFFIT.



1 **TELECOMMUNICATIONS PLAN - FIRST FLOOR PLAN**
1/4" = 1'-0"



2 **SECOND FLOOR TELECOMMUNICATIONS PLAN**
1/4" = 1'-0"

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

TELECOMMUNICATIONS PLAN

TF101.4

TF101.4 - TELECOMMUNICATIONS PLAN
2021-036.GAH - NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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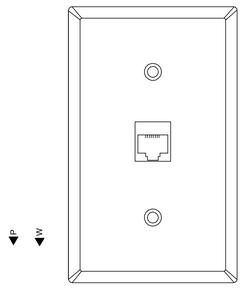
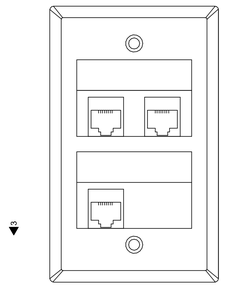
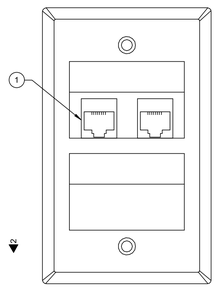


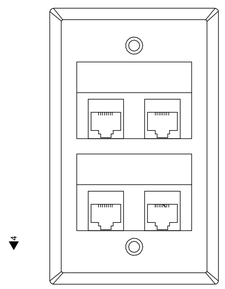
PROVIDE (1) HORIZONTAL UTP CABLE



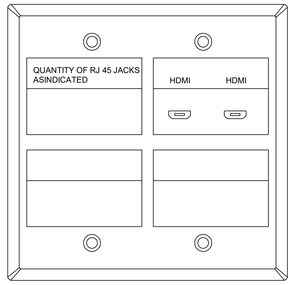
PROVIDE (3) HORIZONTAL UTP CABLES



PROVIDE (2) HORIZONTAL UTP CABLES



PROVIDE (4) HORIZONTAL UTP CABLES



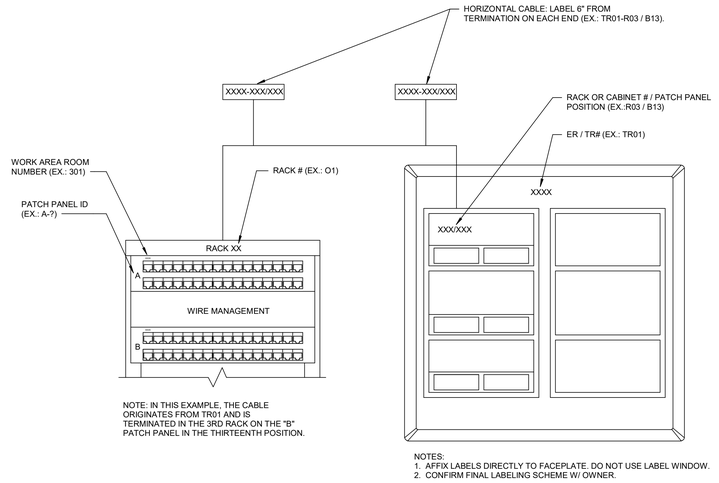
PROVIDE QUANTITY OF HORIZONTAL UTP CABLES AS INDICATED

GENERAL NOTES:

GENERAL NOTES
1. WHERE TELECOMMUNICATIONS OUTLETS ARE INSTALLED IN MULTI-COMPARTMENT SURFACE RACEWAY, PROVIDE 106 JACK FRAMES AS REQUIRED AND STANDARD FACEPLATES TO MATCH ELECTRICAL POWER OUTLET.

PLAN NOTES:

(1) FIRST POSITION DESIGNATED FOR VOICE SERVICES AT FACULTY AND STAFF DESK LOCATIONS.

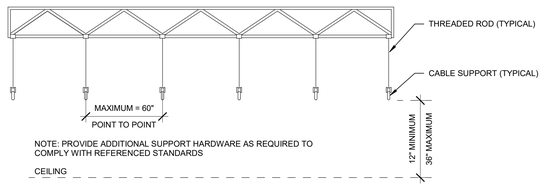


NOTE: IN THIS EXAMPLE, THE CABLE ORIGINATES FROM TR01 AND IS TERMINATED IN THE 3RD RACK ON THE "B" PATCH PANEL IN THE THIRTEENTH POSITION.

NOTES:
1. AFFIX LABELS DIRECTLY TO FACEPLATE. DO NOT USE LABEL WINDOW.
2. CONFIRM FINAL LABELING SCHEME W/ OWNER.

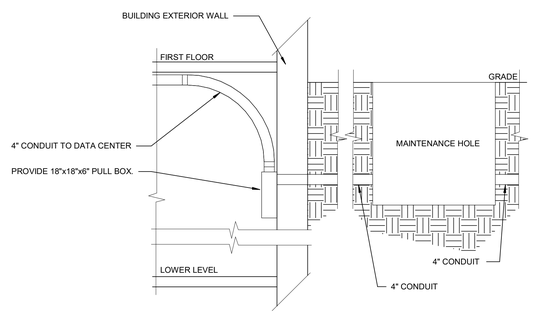
4 ER/TR RACK/PATCH PANEL, WORK AREA OUTLET FACEPLATE LABELING
1/8" = 1'-0"

2 FACE PLATE DETAILS
1/8" = 1'-0"



NOTE: PROVIDE ADDITIONAL SUPPORT HARDWARE AS REQUIRED TO COMPLY WITH REFERENCED STANDARDS

1 CABLE SUPPORT DETAIL
1/8" = 1'-0"



3 ENTRANCE FACILITY FOR EXISTING BUILDING WITH LOWER LEVEL
1/8" = 1'-0"

ROUGH-IN GENERAL NOTES:

1. TERMINATE ALL ROUGH-IN CONDUITS WITH 90 DEGREE SWEEP AND BUSHINGS IN NEAREST CONCEALED ACCESSIBLE CEILING SPACE.

2. CONDUIT BEND RADIUS TO BE COMPLIANT WITH BICSI TDMM MANUAL 12TH ED.

3. ALL ROUGH-IN CONDUITS ARE 1" UNLESS OTHERWISE NOTED.

4. PROVIDE NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS IN A SINGLE CONDUIT RUN.

5. ROUGH-IN OUTLET BOXES TO HAVE 90 DEGREE OPENING CORNERS ON FACE OF BOX.

6. ALL ROUGH-INS BY ELECTRICAL CONTRACTOR.

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

TELECOMMUNICATIONS DETAILS

T-501.4

T-501.4_TELECOMMUNICATIONS DETAILS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RESTORATION - BID PACKAGE 4_
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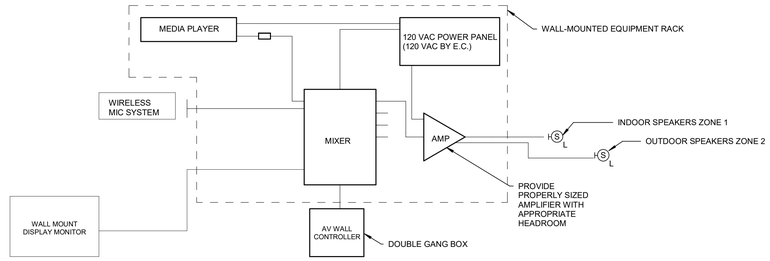
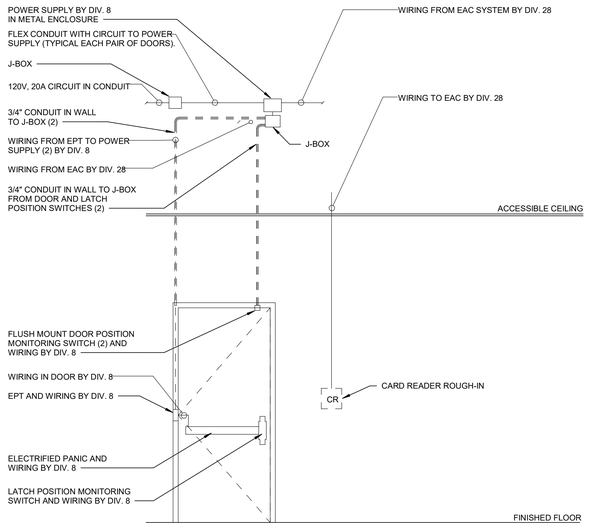


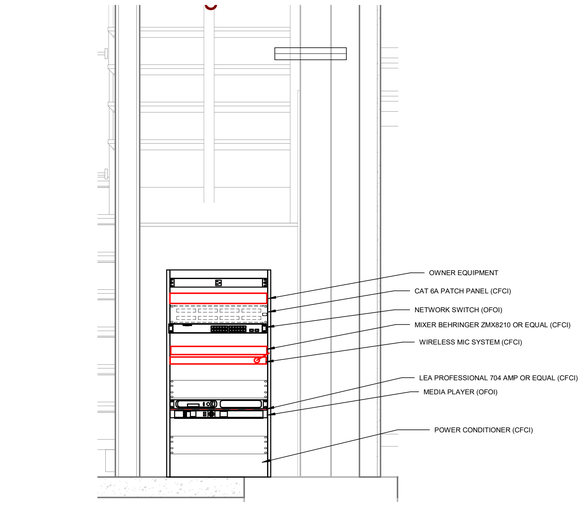
NOTES: AV WALL CONTROLLER WILL NEED THE ABILITY TO POWER ON THE TV, CHANGE INPUTS AND CONTROL AUDIO IN THE ROOM.

4D EVENT SPACE SOUND SYSTEM ONE-LINE DIAGRAM
NOT TO SCALE



NOTES:
1. ALL WORK ON THIS DRAWING BY DIVISION 26 UNLESS NOTED OTHERWISE.
2. ROUGH-IN, J-BOX AND POWER SUPPLY LOCATIONS ARE DIAGRAMMATIC ONLY.
3. VIEW IS FROM INTERIOR OF BUILDING.
4. REFER TO DOOR AND HARDWARE SCHEDULE FOR DOOR FRAME MATERIAL AND DOOR HARDWARE.
5. EXPOSED CONDUIT NOT PERMITTED. RUN CONCEALED CONDUIT TO FRAME THEN RUN WIRING INSIDE FRAME SYSTEM.
6. SEE ROUGH-IN DETAILS FOR ABOVE CEILING CONDUIT TERMINATION REQUIREMENTS.
7. DETAIL IS DIAGRAMMATIC. ALL ROUGH-INS MAY NOT BE USED. COORDINATE WITH HARDWARE SCHEDULE FOR EXACT REQUIRED ROUGH-INS.
8. REFER TO A-SERIES FLOOR PLANS FOR ADA OPERATOR LOCATIONS.

1E TYPICAL DOOR SECURITY SCHEMATIC DIAGRAM
NOT TO SCALE



6A TYPICAL RACK ELVATION
NOT TO SCALE

SIZING OF THE TBB	
TBB LENGTH (FEET)	TBB SIZE (AWG)
LESS THAN 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 kcmil
126-150	300 kcmil
151-175	350 kcmil
176-250	500 kcmil
251-300	600 kcmil
Greater than 301	750 kcmil
CONFIRM ALL SIZING WITH J-STD-607-A	

ABBREVIATIONS:
MC - MAIN CROSS-CONNECT
HC - HORIZONTAL CROSS-CONNECT
ER - EQUIPMENT ROOM
TR - TELECOMMUNICATIONS ROOM
TBB - TELECOMMUNICATIONS BONDING BACKBONE
TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
BC - TELECOMMUNICATIONS BOUNDING CONDUCTOR

DRAWING NOTES:

1. PROVIDE TELECOMMUNICATIONS BACKBONE CABLING AND GROUNDING / BONDING TBB BETWEEN THE MC AND EACH HC/IC AS FOLLOWS:

   - SINGLE-MODE FIBER BY OWNER.
   - TBB SIZED PER STANDARDS

2. WITHIN THE TELECOMMUNICATIONS EQUIPMENT ROOM (ER) AND EACH TELECOMMUNICATIONS ROOM (TR) BOND THE TMGB AND EACH TGB TO THE FOLLOWING:
   - STRUCTURAL STEEL
   - ALL METALLIC MATERIAL
   - CABLE TRAY
   - EQUIPMENT CABINETS AND RACKS

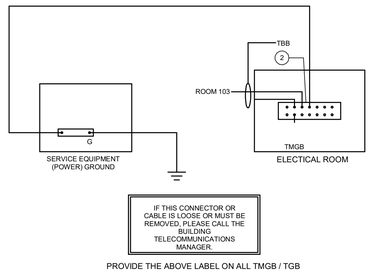
GENERAL NOTES:

1. ALL WORK INDICATED SHALL BE FULLY COMPLIANT WITH THE FOLLOWING STANDARDS.

A. ANSI / TIA / EIA - 568 - B COMMERCIAL BUILDING TELECOMMUNICATIONS STANDARD PART 1, PART 2 AND PART 3 INCLUDING ALL SUB-PARTS AND ADDENDUMS.
B. TIA - 569 - B COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES INCLUDING ALL SUB-PARTS AND ADDENDUMS.
C. ANSI / TIA / EIA - 606 - A ADMINSTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING ALL SUB-PARTS AND ADDENDUMS.
D. ANSI - J - STD - 607 - A COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

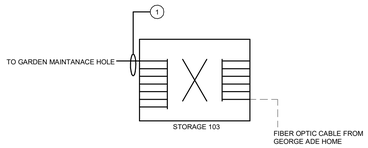
2. ROUTE ALL TBB ALONG PRIMARY PATHWAY WITH TELECOMMUNICATIONS CABLING.

3. COORDINATE SPECIFIC EQUIPMENT ELEVATIONS WITH ARCHITECT ENGINEER.



PROVIDE THE ABOVE LABEL ON ALL TMGB / TGB

GROUNDING



BACKBONE

1A BACKBONE / GROUNDING SCHEMATICS
1/8" = 1'-0"

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Project No. 2021-036.GAH
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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#	Revision	Date

3705 IN SR 16
BROOK, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - CARRIAGE HOUSE RENOVATION - BID PACKAGE 4

TELECOMMUNICATIONS DETAILS

T-502.4

T-502.4 - TELECOMMUNICATIONS DETAILS
2021-036.GAH_NEWTON COUNTY BOARD OF COMMISSIONERS_HAZELDEN ESTATE RES TORATION - BID PACKAGE 4_
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