



**CITY OF
BLOOMINGTON**
HOUSING AND NEIGHBORHOOD DEVELOPMENT

BHPC MEETING PACKET

Thursday September 14, 2023

5:00 p.m. EST

Prepared by HAND Staff

In Person: The McCloskey Room, 401 N Morton St., Ste. 135, Bloomington, IN 47404

Zoom: <https://bloomington.zoom.us/j/95852185508?pwd=M3J2aDgrdjdXaWh1QUN3eWRKYThKQT09>

Meeting ID: 958 5218 5508

Passcode: 082945

One tap mobile

+13126266799,,95852185508# US (Chicago)

+19292056099,,95852185508# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 301 715 8592 US (Washington DC)

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

Accessibility Statement

The City is committed to providing equal access to information. However, despite our efforts, at times, portions of our board and commission packets are not accessible for some individuals.

If you encounter difficulties accessing material in this packet, please contact John Zody at the Housing and Neighborhood Development Department at joh.zody@bloomington.in.gov or 813-349-3582 and provide your name, contact information, and a link to or description of the document or web page you are having problems with.

Auxiliary aids for people with disabilities are available upon request with adequate notice. Please call 812-349-3429 or email, human.rights@bloomington.in.gov.

Bloomington Historic Preservation Commission Meeting

In Person: 401 N Morton St., Ste. 135, Bloomington, IN 47404

Zoom: <https://bloomington.zoom.us/j/95852185508?pwd=M3J2aDgrdjdXaWh1QUN3eWRKYThKQT09>

Meeting ID: 958 5218 5508 Passcode: 082945

Thursday September 14, 2023, 5:00 P.M.

AGENDA

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- I. CALL TO ORDER
- II. ROLL CALL
- III. APPROVAL OF MINUTES
 - A. August 24, 2023
- IV. CERTIFICATES OF APPROPRIATENESS

Staff Review

A. COA 23-66

615 W Kirkwood Ave. (Greater Prospect Hill Historic District)
Petitioner: Leighla Taylor (FASTSIGNS)
New Signage hanging from the porch eave.

B. COA 23-68

1320 E 1st St. (Elm Heights Historic District)
Petitioner: Cynthia Graham
New fencing (Retroactive COA).

Commission Review

C. COA 23-67

901 W 4th St. (Greater Prospect Hill Historic District)
Petitioner: Robin Reeves
Closing off one of the front doors.

D. COA 23-69

122 S Walnut St. (Courthouse Square Historic District)
Petitioner: Constellation Stage and Screen
New Awning

V. DEMOLITION DELAY

A. DD 23-10

313 W 17th St. (Contributing)
Petitioner: Caylan Evans
Full Demolition.

VI. NEW BUSINESS

Section 106 Reviews for HUD Funded Projects

- A. 410 W Kirkwood Ave.
- B. Arlington Park
- C. 1020 N Monroe St.

VII. OLD BUSINESS

- A. Notice of Violation Updates
- B. Planning HPC Retreat and continuing education

VIII. COMMISSIONER COMMENTS

IX. PUBLIC COMMENTS ANNOUNCEMENTS

X. ADJOURNMENT

Next meeting date is September 28, 2023 at 5:00 P.M. and will be held in a hybrid manner,
both in person and via Zoom.

Posted: 9/11/2023

| | |
|--------------------------------------|--|
| STAFF APPROVALS | Address: 615 W Kirkwood Ave. |
| COA 23-66 615 W Kirkwood Ave. | Petitioner: Leighla Taylor (FASTSIGNS) |
| Application Date: 8/22/2023 | Parcel: 53-05-32-411-038.000-005 |
| RATING: Contributing | Survey: |



Background: Greater Prospect Hill Historic District

Request: New Signage hanging from the porch eve.

Guidelines:

Greater Prospect Hill Historic District

Pg. 25 Changes to the public way façade shall be reviewed for COA (Certificate of Appropriateness) approval by HAND (Housing and Neighborhood Development) staff. Either the homeowner or HAND staff may appeal to the BHPC (Bloomington Historic Preservation Commission) for further review.

Pg 7 The south side of Kirkwood Avenue is covered by the Kirkwood Plan, which provides clear guidelines for future construction using commercial forms.

Plan for West Kirkwood

- Sign: Building mounted signage to be within the area indicated. Backlighting signs or awnings not permitted

Staff Approved COA 23-66

The proposal complied with both the Kirkwood and Greater Prospect Hill guidelines.

**APPLICATION FORM
CERTIFICATE OF APPROPRIATENESS**

Case Number: COA 23-66

Date Filed: 8/22/2023

Scheduled for Hearing: 9/14/2023

Address of Historic Property: 615 W Kirkwood, Bloomington IN 47404

Petitioner's Name: FASTSIGNS of Bloomington (Leighla Taylor)

Petitioner's Address: 2454 S Walnut St. Bloomington, IN 47401

Phone Number/e-mail: 812-318-8029, leighla.taylor@fastsigns.com

Owner's Name: Jaime Sweany

Owner's Address: 615 W Kirkwood, Bloomington IN 47404

Phone Number/e-mail: (812) 714-8038, art@juniperartgallery.com

Instructions to Petitioners

The petitioner must attend a preliminary meeting with staff of the Department of Housing and Neighborhood Development during which the petitioner will be advised as to the appropriateness of the request and the process of obtaining a Certificate of Appropriateness. The petitioner must file a "complete application" with Housing and Neighborhood Department Staff at least twelve (12) days before a scheduled regular meeting. The Historic Preservation Commission meets the second Thursday of each month at 5:00 P.M. in the McCloskey Room (meetings are currently held via Zoom until further notice. The link is sent the week before the meeting). The petitioner or his designee must attend the scheduled meeting in order to answer any questions or supply supporting material. You will be notified of the Commission's decision and a Certificate of Appropriateness will be issued to you. Copies of the Certificate must accompany any building permit application subsequently filed for the work described. If you feel uncertain of the merits of your petition, you also have the right to attend a preliminary hearing, which will allow you to discuss the proposal with the Commission before the hearing during which action is taken. Action on a filing must occur within thirty days of the filing date, unless a preliminary hearing is requested.

Please respond to the following questions and attach additional pages for photographs, drawings, surveys as requested.

A **“Complete Application”** consists of the following:

1. A legal description of the lot. _____

2. A description of the nature of the proposed modifications or new construction:

Add TWO 9"h x 24"w Aluminum .080, Double Sided Signs for Parking Way-finding.

To be hung from left and right side of front porch roof.

3. A description of the materials used.

Aluminum .080 with Printed Vinyl & UV Laminate applied. Rounded Corners

Stainless Steel Chain Hardware/hooks

4. Attach a drawing or provide a picture of the proposed modifications. You may use manufacturer’s brochures if appropriate.

5. Include a scaled drawing, survey or geographic information system map showing the footprint of the existing structure and adjacent thoroughfares, Geographic Information System maps may be provided by staff if requested. Show this document to Planning Department Staff in order to ascertain whether variances or zoning actions are required.

6. Affix at least three photographs showing the existing full facade at each street frontage and the area of modification. If this petition is a proposal for construction of an entirely new structure or accessory building, include photographs of adjacent properties taken from the street exposure.

If this application is part of a further submittal to the Board of Zoning Appeals for a Conditional Use or development standard variance, please describe the use proposed and modification to the property which will result.

Quantity TWO 9" h x 24" w Double Sided Aluminum .080 Signs - one of each design below
- To be hung from left and right side of front porch

FRONT

**Parking
in the Rear**

BACK

ART

GIFTS

**Parking
in the Rear**

FOOD

DRINKS



| | |
|------------------------------------|----------------------------------|
| STAFF APPROVAL | Address: 1320 E 1st St. |
| COA 23-68 1320 E 1st St. | Petitioner: Cynthia Graham |
| Application Date: 8/31/2023 | Parcel: 53-08-03-210-012.000-009 |
| RATING: NOTABLE | Survey: c. 1927, Tudor Revival |



Background: Elm Heights Historic District

Request: New fencing (Retroactive COA).

Guidelines: Elm Heights Historic District Guidelines (pg. 14)

- I. Installation or removal of walls or fences visible from the public right-of-way.
 - A. For new fences, use historically appropriate materials for Elm Heights, which, depending on the type and style of architecture, may include iron, stone, brick, or wood.
 - B. New retaining walls should be appropriate in height to the grade of the yard. Rear yard concrete block retaining walls may be considered depending on position, visibility, and design.
 - C. Install new walls or fences so the total height does not obscure the primary facade of the building.
 - D. Installation of rear yard fences should begin no further forward than a point midway between the front and rear facades of the house.
 - E. Consideration is given for fences that pertain to special needs, children, and dogs. Temporary seasonal fences for gardening are permitted and do not require a COA.

Staff Approved COA 23-68

- The proposal complied with the Elm Heights Historic District Guidelines. The fence begins on the back half of the main structure and uses district appropriate materials.



CITY OF BLOOMINGTON

HOUSING AND NEIGHBORHOOD DEVELOPMENT

Bloomington Historic Preservation Commission

APPLICATION FORM FOR CERTIFICATE OF APPROPRIATENESS

INFORMATION ABOUT THE PROPERTY

Address of Property: 1320 E. 1st. Street Bloomington IN 47401

Parcel Number(s): _____

(OFFICE USE ONLY)

Filing Date: 8/31/2023

Case Number: COA 23-69

HPC Hearing Date: 9/14/2023

Bloomington Historic District:

- Courthouse Square Historic District
- Elm Heights Historic District
- Fairview Historic District
- Garden Hill Historic District
- Greater Prospect Hill Historic District
- Maple Heights Historic District
- Matlock Heights Historic District
- McDoel Historic District
- Near West Side Historic District
- Prospect Hill Historic District
- Restaurant Row Historic District
- Showers Brothers Furniture Factory Historic District
- University Courts Historic District
- Other: _____

RATING (City of Bloomington Survey of Historic Sites and Structures)

- Outstanding
- Notable
- Contributing
- Non-Contributing

APPLICANT INFORMATION:

Name: Cynthia Graham Email: cygraham@indiana.edu

Address: 1320 E. 1st. Street, Bloomington IN 47401 Phone: 812-320-3945

PROPERTY OWNER INFORMATION:

Check if the Applicant is the property owner

Name: as above Email: _____

Address: _____ Phone: _____

PROPOSED WORK (Check all that Apply):

- New construction
 - Principal building
 - Accessory building or structure
 - Addition to existing building
- Demolition
 - Full Demolition
 - Partial Demolition
- Moving a building
- Alterations to the façade or exterior spaces of the property
 - Window replacement
 - Door replacement
 - Siding
 - Roof material
 - Foundation
 - Other façade element: A fence around part of the back yard.
- New Signage
- Alterations to the yard
 - Alteration to fences, walls
 - Tree removal
- Other(s): _____

ADDITIONAL REQUIRED DOCUMENTS

- Written description of the nature of the proposal.
- Written description of all of the proposed materials to be used.
- Between 3 and 5 photographs of the historic site and/or structure before changes.
- Scaled drawings or sketches, manufacturer’s brochures, and/or photographic precedents showing the proposed alterations to the exterior, additions, changes, or new construction.
- A map of the site with the site boundaries indicated.

CERTIFICATION

I am the owner or authorized agent responsible for compliance, and hereby acknowledge the following:

1. I have read this application and all related documentation and I represent that the information furnished is correct.
2. I agree to comply with all City ordinances and State statutes, which regulate construction, land use, occupancy, and historic preservation.
3. Any changes made to the project proposal shall be submitted to the City of Bloomington for review.
4. If any misrepresentation is made in this application, the City may revoke any Certificate issued based upon this misinformation.

Applicant’s Signature: Cynthia Graham

Digitally signed by Cynthia Graham
Date: 2023.08.31 15:39:49 -04'00'

Date: 8/31/2023

INSTRUCTIONS TO PETITIONERS

1. No fee is required for submittal.
2. The petitioner must attend a preliminary meeting with staff of the Department of Housing and Neighborhood Development during which the petitioner will be advised as to the appropriateness of the request and the process of obtaining a Certificate of Appropriateness. This can be done in person, via the phone, or teleconference.
3. **Application form:** The [Bloomington Historic Preservation Map](https://bton.in/M_pUv) at https://bton.in/M_pUv provides the historic district and historic building survey. You need to open the layers and click on “Historic Sites and Survey” to find the historic ratings which are color coded.
4. Communicate with the Monroe County Building Department and the City of Bloomington’s Planning and Transportation Department in order to verify if there are additional requirements.
5. In the historic districts listed on the bottom of the page, the petitioner should contact the historic district construction subcommittee and acquire their feedback as early in the process as possible.
6. The petitioner must file a complete application that includes all of the required documents with Housing and Neighborhood Department Staff no later than fourteen days before a scheduled regular meeting.
7. The petitioner, owner or a delegated representative must attend the Bloomington Historic Preservation Commission (BHPC) Meeting. The BHPC meets the second and fourth Thursday of each month at 5:00 P.M. in a hybrid fashion, at the McCloskey Room (401 N Morton St., Room 135) and via Zoom (with a link to be provided). The petitioner will be notified of the Commission’s decision and a Certificate of Appropriateness will be issued to them. Copies of the Certificate must accompany any building permit application subsequently filed for the work described. If the petitioner feels uncertain of the merits of the petition, they also have the right to attend a preliminary hearing, which will allow you to discuss the proposal with the Commission before the hearing during which action is taken. Action on a filing must occur within thirty days of the filing date, unless a preliminary hearing is requested.

CHECKLIST OF REQUIRED DOCUMENTS

- Filled and signed Application for the Certificate of Appropriateness
- Written description of the nature of the proposal
- Written description of all of the proposed materials to be used.
- Between 3 and 5 photographs of the historic site and/or structure before changes.
- Scaled drawings or sketches, manufacturer’s brochures, and/or photographic precedents showing the proposed alterations to the exterior, additions, changes, or new construction. **(All images must be clear and submitted either in a physical format or as 150-300 dpi jpg, png, or pdf.)**
- A map of the site with the site boundaries indicated (GIS imagery from sites such as the [Elevate Tax Maps](https://monroein.elevatemaps.io/) at <https://monroein.elevatemaps.io/> or [Google Maps](https://maps.google.com/) (maps.google.com) are acceptable). In the case that the historic district in which the property is located has a construction
- subcommittee, it is highly advisable to contact and review your project with said committee before submitting the application. Contact information for the committee representatives is available upon request from the Historic Preservation Program Manager.

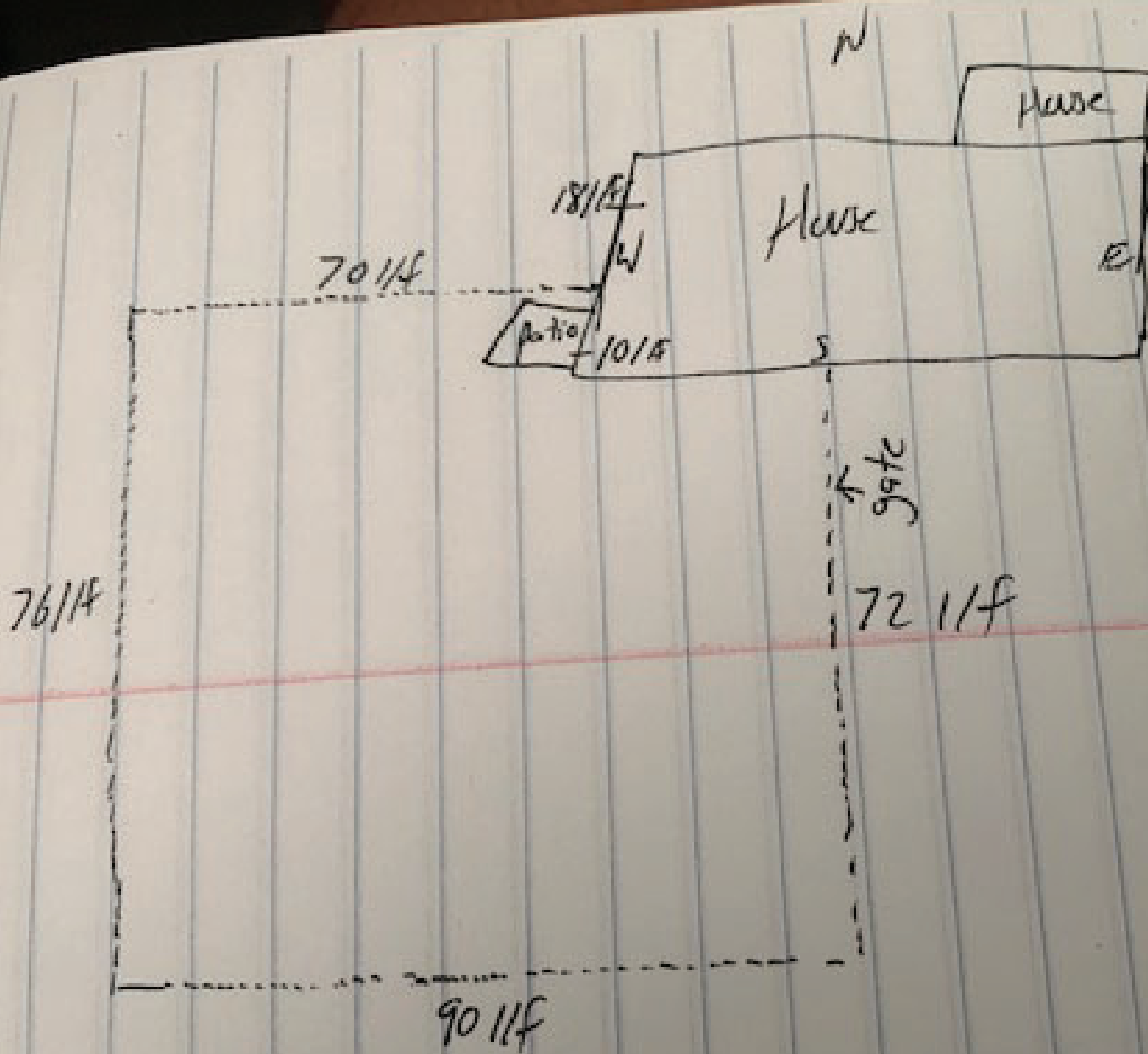
- [Elm Heights Historic District](#)
- [Greater Prospect Hill Historic District](#)
- [Matlock Heights Historic District](#)
- [McDoel Gardens Historic District](#)
- [Near West Side Historic District](#)
- [Maple Heights Historic District](#)

Written Description of the Proposal 1320 E. 1st Street Bloomington IN 47401
From Cynthia Graham 8/31/23

A fence was constructed to fence in Feb. 2023 to enclose part of my back yard for my two dogs. The company used was Award Fence (run by Mr Blake Ward). There was no brochure. The fence was a Stick built with western red cedar and pressure treated two x fours and four by fours.

Written Description of the Materials Used 1320 E. 1st Street Bloomington IN 47401
From Cynthia Graham 8/31/23

The company used was Award Fence (run by Mr Blake Ward). There was no brochure. The fence was a Stick built with western red cedar and pressure treated two x fours and four by fours.



Cynthia
Graham
1st. St.



1320 E 1st St - Google Maps

1320 E 1st St, Bloomington, IN 47401

Restaurants Hotels Things to do Transit Parking Pharmacies ATMs

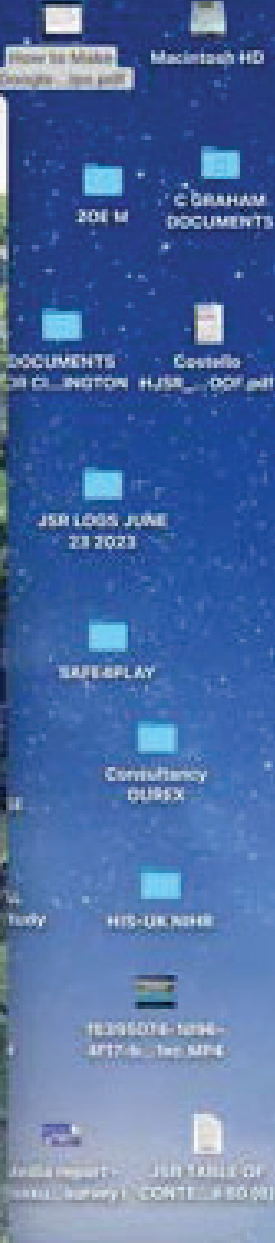
1320 E 1st St

Building

Directions Save Nearby Send to phone Share

- 1320 E 1st St, Bloomington, IN 47401
- Suggest an edit on 1320 E 1st St
- Add a missing place
- Add your business
- Add a label

Photos























| | |
|------------------------------------|----------------------------------|
| STAFF RECOMMENDATIONS | Address: 901 W 4th St. |
| COA 23-67 901 W 4th St. | Petitioner: Robin Reeves |
| Application Date: 8/31/2023 | Parcel: 53-01-32-208-000.000-005 |
| RATING: CONTRIBUTING | Survey: c. 1905, Gabled ell |



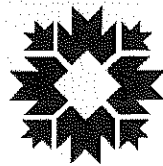
| |
|---|
| Background: Greater Prospect Hill Historic District |
| Request: Eliminating one of the front doors. |
| Neighborhood Comments: Pending |
| <p>Guidelines: Greater Prospect Hill Historic District</p> <p>Existing architectural details (specifically original historic elements) for windows, porches, doors and eaves on the public way façade shall be retained or replaced in the same style or in a design appropriate to the character of the house or streetscape.</p> <ol style="list-style-type: none"> 1. Retain the proportions of all original openings (e.g., doors, windows, etc.). Replacement of windows and doors determined to be original should duplicate the original in size and scale in ways that do not visually impact the public way façade of the house and continue to reflect the period of the house. (For issues regarding accessibility, see Section VII, Safety and Access, found on page 27.) |

2. Retain siding determined to be original. If using alternative materials as siding, the homeowner should use material that is compatible with the original material's character. For example, horizontal fiber cement siding with identical lap reveal is appropriate. When hardboard or concrete board siding is used to simulate wood clapboard siding, it should reflect the general directional and dimensional characteristics found historically in the neighborhood. No products imitating the "grain" of wood should be used. Brick, limestone, clapboard, cement board, wood, shingles, stucco are recommended materials.
3. Vinyl and aluminum siding may be used, although care should be taken during installation to retain original materials where they exist (e.g., door and window trim and underlying siding if it is original).
4. Retain historical character-defining architectural features and detailing, and retain detailing on the public way façade such as brackets, cornices, dormer windows, and gable end shingles. (See Section C, Removal of Original Materials, found on page 26).

Pg. 26 Avoid removing or altering historic material or distinctive architectural features, like those listed. If materials are original and in good shape, means with which to keep them intact should be explored. If the existing material cannot be retained because of its condition, document the material and its condition and apply for a COA. If the desire is to restore or renovate to a certain design or style, provide a replacement plan and apply for a COA.

Staff Recommends Denial of COA 23-67 with the recommendation that the owner close the wall behind the door from the interior such that in the future it can be restored. However, Staff is also open to a more nuanced discussion.

The application is designed to preserve the outward look of the doors or at least to commemorate the door without misleading people into believing they can enter through that door. There is space for nuance .



CITY OF BLOOMINGTON

HOUSING AND NEIGHBORHOOD DEVELOPMENT

Bloomington Historic Preservation Commission

APPLICATION FORM FOR CERTIFICATE OF APPROPRIATENESS

INFORMATION ABOUT THE PROPERTY

Address of Property: 901 W. 4th St.
Parcel Number(s): 53-01-32-208-000-000-005

| | |
|-------------------|------------------|
| (OFFICE USE ONLY) | |
| Filing Date: | <u>8/24/2023</u> |
| Case Number: | <u>COA 23-67</u> |
| HPC Hearing Date: | <u>9/14/2023</u> |

Bloomington Historic District:

- Courthouse Square Historic District
- Elm Heights Historic District
- Fairview Historic District
- Garden Hill Historic District
- Greater Prospect Hill Historic District
- Maple Heights Historic District
- Matlock Heights Historic District
- McDoel Historic District
- Near West Side Historic District
- Prospect Hill Historic District
- Restaurant Row Historic District
- Showers Brothers Furniture Factory Historic District
- University Courts Historic District
- Other: _____

RATING (City of Bloomington Survey of Historic Sites and Structures)

- Outstanding
- Notable
- Contributing
- Non-Contributing

APPLICANT INFORMATION:

Name: Robin Reeves Email: roareeves@gmail.com

Address: 901 W. 4th St. Bloomington IN 47404 Phone: 812-318-5185

PROPERTY OWNER INFORMATION:

Check if the Applicant is the property owner ~Same as above~

Name: _____ Email: _____

Address: _____ Phone: _____

PROPOSED WORK (Check all that Apply):

- New construction
 - Principal building
 - Accessory building or structure
 - Addition to existing building
- Demolition
 - Full Demolition
 - Partial Demolition
- Moving a building
- Alterations to the façade or exterior spaces of the property
 - Window replacement
 - Door replacement
 - Siding
 - Roof material
 - Foundation
 - Other façade element: Changing porch 2nd porch entrance (removing door entry) keeping appearance of door
- New Signage
- Alterations to the yard
 - Alteration to fences, walls
 - Tree removal
- Other(s): _____

ADDITIONAL REQUIRED DOCUMENTS

- Written description of the nature of the proposal.
- Written description of all of the proposed materials to be used.
- Between 3 and 5 photographs of the historic site and/or structure before changes.
- Scaled drawings or sketches, manufacturer's brochures, and/or photographic precedents showing the proposed alterations to the exterior, additions, changes, or new construction.
- A map of the site with the site boundaries indicated.

CERTIFICATION

I am the owner or authorized agent responsible for compliance, and hereby acknowledge the following:

1. I have read this application and all related documentation and I represent that the information furnished is correct.
2. I agree to comply with all City ordinances and State statutes, which regulate construction, land use, occupancy, and historic preservation.
3. Any changes made to the project proposal shall be submitted to the City of Bloomington for review.
4. If any misrepresentation is made in this application, the City may revoke any Certificate issued based upon this misinformation.

Applicant's Signature: Ravin A. Pines Date: 8/23/23

Application for Certificate of Appropriateness

Robin Reeves
901 W. 4th ST.

Written description of the nature of the proposal

I have 2 entry doors on my front porch and I am wanting to close the second door off from the inside (2nd door defined as the one leading into the bedroom, on the west side of the porch). I would leave the exterior storm door and the upper window on the outside untouched, which will mean that the porch will look basically the same, however behind the storm door there will be only a wall which we can paint the same color as the exterior of the house or even try to illustrate a door (my father who is helping me with the project is an artist).

Written description of all the proposed materials to be used

- Wood for framing off the entryway prior to closing
- Insulation between interior and exterior wall
- Wood paneling for the exterior of the closed-off entryway
- Paint to finish the surface of the exterior wood paneling

3-5 photographs of the site/structure before changes

- See photos 1a, 1b, 1c

1a



1b



1c



Photographic images showing proposed alterations to the exterior
See photos 2a, 2b

2a



2b



2c – finished look – it will look much more natural than this because the color will be coming from behind the glass panes on the door and you will see dimension and shadow.



Map of site with boundaries indicated



Construction Subcommittee – I contracted the construction subcommittee via email on July 31 requesting initial feedback and did not receive a response.

| | |
|------------------------------------|---|
| STAFF RECOMMENDATIONS | Address: 122 S Walnut St. |
| COA 23-68 122 S Walnut St. | Petitioner: New awning. |
| Application Date: 8/31/2023 | Parcel: 53-05-33-310-104.000-005 |
| RATING: OUTSTANDING | Survey: c. 1915, Beaux Arts, historic City Hall |



Background: Courthouse Square Historic District

Request: New Awning

Guidelines: Courthouse Square Historic District Guidelines

Pg. 25

1. Awnings or canopies should be mounted in a manner which does not damage historic building elements.
2. It is preferable that awning and canopy materials be canvas and in a shape that complements the building's historic character and/or reflects the door or window openings it covers.
3. In the cases where there is evidence of a historic marquee, preference may be given to the reestablishment of the marquee and these will be reviewed on a case-by-case basis.

Staff Recommends Conditional Approval of COA 23-68 to finding an installation solution that involves boring into the grout rather than the historic limestone.

The proposed marquee is consistent with beaux arts marquees and would provide a dignified entrance for visitors who need the accessibility.

**APPLICATION FORM
CERTIFICATE OF APPROPRIATENESS**

Case Number: COA 23-68

Date Filed: 8/24/2023

Scheduled for Hearing: 9/14/2023

Address of Historic Property: 122 S Walnut St.

Petitioner's Name: Constellation Stage & Screen

Petitioner's Address: 122 S Walnut St.

Phone Number/e-mail: 970-390-0797

Owner's Name: City of Bloomington

Owner's Address: _____

Phone Number/e-mail: _____

Instructions to Petitioners

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Please respond to the following questions and attach additional pages for photographs, drawings, surveys as requested.

A “Complete Application” consists of the following:

1. A legal description of the lot. John Waldron Arts Center

2. A description of the nature of the proposed modifications or new construction:
An awning over the 4th St door to the building. This is the
handicap accessible entryway and it leads directly to the Firebay
Theater. It also faces the parking garages, so we would like to
treat it as a true entrance.

3. A description of the materials used.
All aluminum awning, painted with Mathews industrial paint. The
exterior doors of the Waldron will be painted black (with gold
accent) to match both the awning and the interior. It will be
installed with awning clips and two turnbuckles. Letters and
stripes will have the capacity to light up. There will also be
lighting on the underside the awning.
Size - 93" x 54"

4. Attach a drawing or provide a picture of the proposed modifications. You may use manufacturer’s brochures if appropriate.

5. Include a scaled drawing, survey or geographic information system map showing the footprint of the existing structure and adjacent thoroughfares, Geographic Information System maps may be provided by staff if requested. Show this document to Planning Department Staff in order to ascertain whether variances or zoning actions are required.

6. Affix at least three photographs showing the existing full facade at each street frontage and the area of modification. If this petition is a proposal for construction of an entirely new structure or accessory building, include photographs of adjacent properties taken from the street exposure.

If this application is part of a further submittal to the Board of Zoning Appeals for a Conditional Use or development standard variance, please describe the use proposed and modification to the property which will result.

S Walnut St

S Walnut St

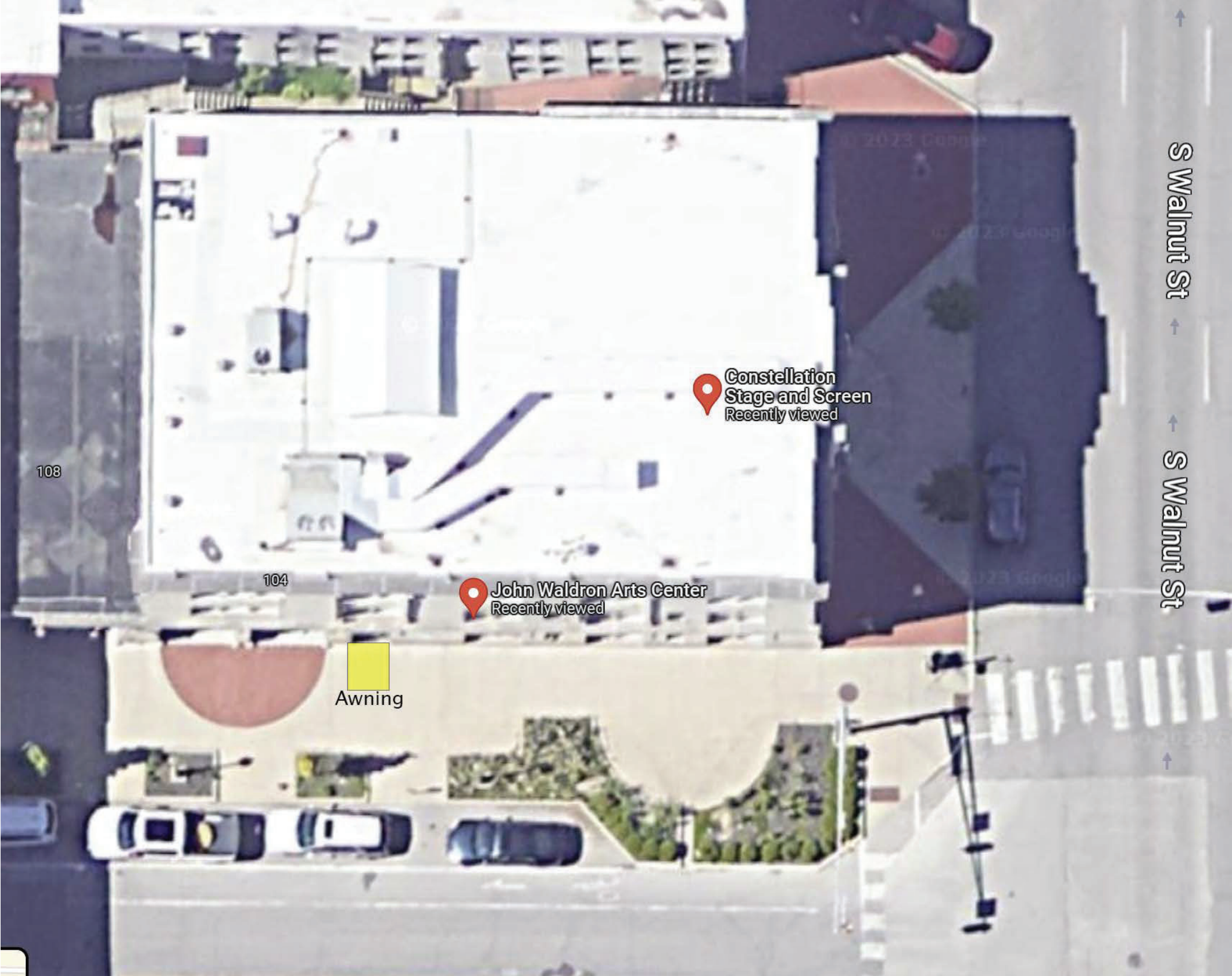
Constellation Stage and Screen
Recently viewed

John Waldron Arts Center
Recently viewed

Awning

108

104



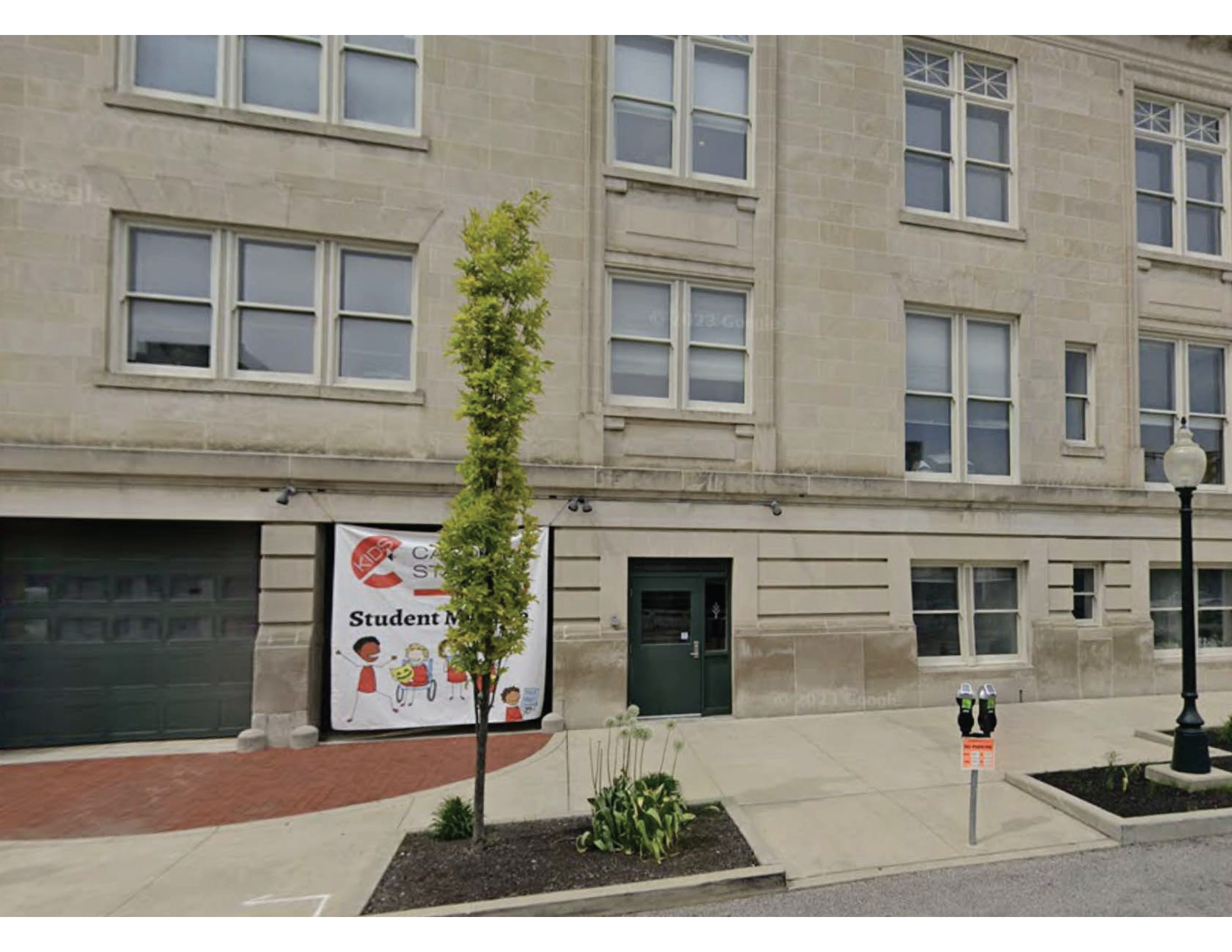


WALDRON ARTS CENTER



ARDIVAL
TAG
Mainee





KIDZ CASH ST
Student M





91.3

© 2023 Good

CARDINAL STAGE
Student Matinee





ONLY

ONLY

100 S Walnut St



IVY TECH JOHN WALDRON ARTS CENTER



| | |
|--------------------------------|----------------------------------|
| STAFF RECOMMENDATIONS | Address: 313 W 17th St. |
| DD 23-10 313 W 17th St. | Petitioner: Caylan Evans |
| Start Date: 8/29/2023 | Parcel: 53-05-33-204-077.000-005 |
| RATING: CONTRIBUTING | Survey: c. 1930, Bungalow |



Background: From the SHAARD RECORDS: "4/1 double hung windows with metal storms, 3/1 triple, double, and single, double hung wood windows with metal storms, 3 light square wood windows, glazed wood door with glazed metal storm, glazed wood door with screened wood storm.

Architectural Description:

Front porch at front door with gable front pedimented roof, wood frieze, wood columns, wood floor, concrete steps. Side porch on east side with shed roof, wood columns, railing, and floor."

Request: Full Demolition

Guidelines: According to the demolition delay ordinance, BHPC has 90 days to review the demolition permit application from the time it is forwarded to the Commission for review.

Staff Recommendation Release the demolition delay DD 23-10

Staff was not able to find information about this property in the City books or Monroe County History Center archives. The building is from all appearances in relatively good condition and if possible could be moved from this location. However, on its own merits, and from the lack of findings, does not qualify for nomination under Title 8.08.101(e) Historic District Criteria.

IHSSI (County Survey)



Survey Number: 105-055-35985

Rating: Contributing

Historic Name: House

Year Dataset Compiled: 2014

National Register File
Number: -

Survey County

| County | Legal Township(s) | Quad Name(s) |
|--------|-------------------|--------------|
| Monroe | Bloomington | Bloomington |

Address: 313 17th St

City: Bloomington

Location Notes: -

Coordinates

Easting

Northing

540002

4336736

Common Name: -

Category: Building

Visible?:

Historic District?:

Historic District Name: -

Ownership: private

Use: Present

Residence:

Commercial:

Vacant:

Other:

Other:

Use: Past

Residence:

Commercial:

Vacant:

Other:

Other:

Surveys/Legal Protections

National Register:

State Register:

Hoosier Homestead:

National Historic Landmark:

Local Designation:

Protective Covenants:

Other:

Areas of Significance: ARCHITECTURE

Other Significance: -

Endangered: No

Explanation: -

Number of Contributing Resources: 1

Number of Non-contributing Resources: 0

Environment: Urban

Bibliography: -

Structure Type

Bridge:

Cemetery:

Other:

Time Period(s): c. 1930

Condition: Good

Year Demolished: -

Integrity: Slightly Altered
Date Moved: -
Alterations: -
Style: -
Type/Vernacular: Bungalow

| Architect/Builder | Architectural Firm | Affiliation |
|-------------------|--------------------|-------------|
| - | - | - |

Replacement

Windows: Roof:
Other:

Additions

Siding: Wings:
Other: Description: porch
Removals: -

Stories

1: 1 1/2: 2: 2 1/2:
Other:

Plan

Rectangular: Polygonal:
L: T: X: U:
Irregular: Other:

Depth

Single-Pile: Double-Pile:
Irregular/Massed: Other:

Number of Bays: -

Foundation: LIMESTONE

Foundation Description: -

Walls Description: -

Other Walls: -

Roof

Side-Gable: Front-Gable: Cross-Gable:
Hip: Pyramidal: Mansard:
Other:

Material: ASPHALT

Features: exterior brick chimney, cornice returns

Porches

Front: Side: Back:

Notes: See #29.

Openings:

4/1 double hung windows with metal storms, 3/1 triple, double, and single, double hung wood windows with metal storms, 3 light square wood windows, glazed wood door with glazed metal storm, glazed wood door with screened wood storm.

Interior:

-

Outbuildings:

-

Notes: -

Statement of Significance: -

Architectural Description:

Front porch at front door with gable front pedimented roof, wood frieze, wood columns, wood floor, concrete steps. Side porch on east side with shed roof, wood columns, railing, and floor.

September 5, 2023

John Saunders
Chair
Bloomington Historic Preservation
401 N Morton St, Suite 130
Bloomington, IN 47404

Re: Invitation to consult regarding the installation of new sidewalk and accessibility ramp at 410 W Kirkwood Ave, Bloomington, IN using Community Development Block Grant funds for Physical Improvements.

Dear Mr. Saunders,

The City of Bloomington, Indiana is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the City of Bloomington has assumed HUD's environmental review responsibilities for the project, including consulting with interested parties related to historic properties. Historic properties include archeological sites and structures.

City of Bloomington will conduct a review of this project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have local historical significance and to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

To meet project timeframes, if you would like to be a consulting party on this project, can you please let us know of your interest within 30 days? If you have any initial concerns with impacts of the project on religious or cultural properties, can you please note them in your response?

The project is located at 410 W Kirkwood Avenue, Bloomington, Monroe County, Indiana. The site has a non-contributing structure and the scope of work that breaks ground consists of completing site work and excavation, especially regarding utility connections and utility permit, building a new ADA accessible sidewalk on the west and south side of the building, including a ramp and a staircase and installing walkway pavers. The sub-recipients have already begun working on the site, which already had the sidewalk and ramp installed as of September 5, 2023.

More information on the Section 106 review process is available at <http://www.onecpd.info/environmental-review/historic-preservation/>.

If you do not wish to consult on this project, no reply to this letter is needed. Thank you very much. We value your assistance and look forward to consulting further if there are historic properties that may be affected by this project.

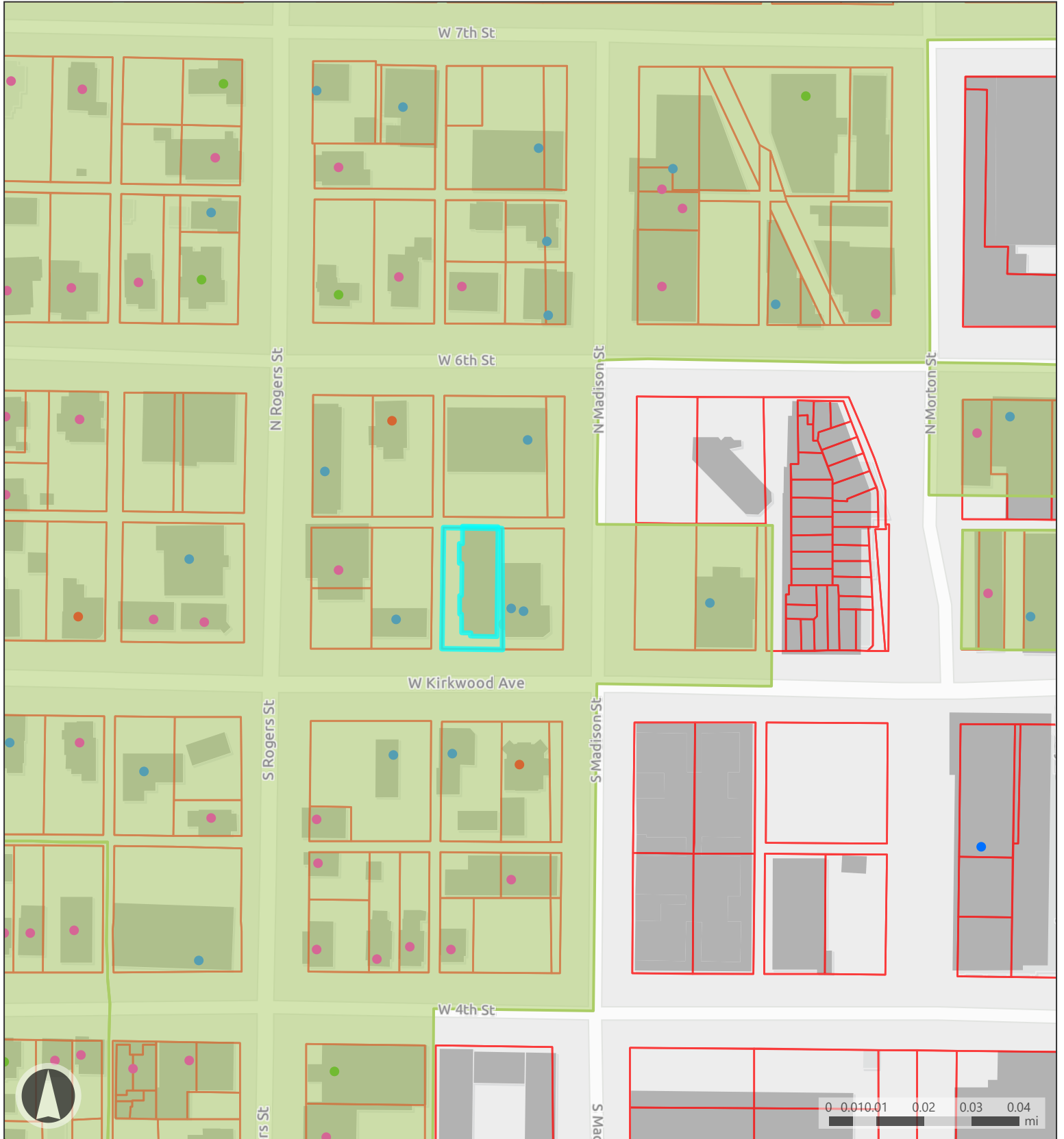
Sincerely,



Gloria M. Colom Braña
Historic Preservation Program Manager
City of Bloomington, Indiana

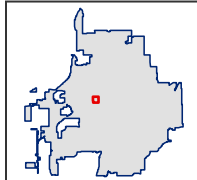
Cc: Department of Historic Preservation and Archeology, Department of Natural Resources,
Indiana

Attachments

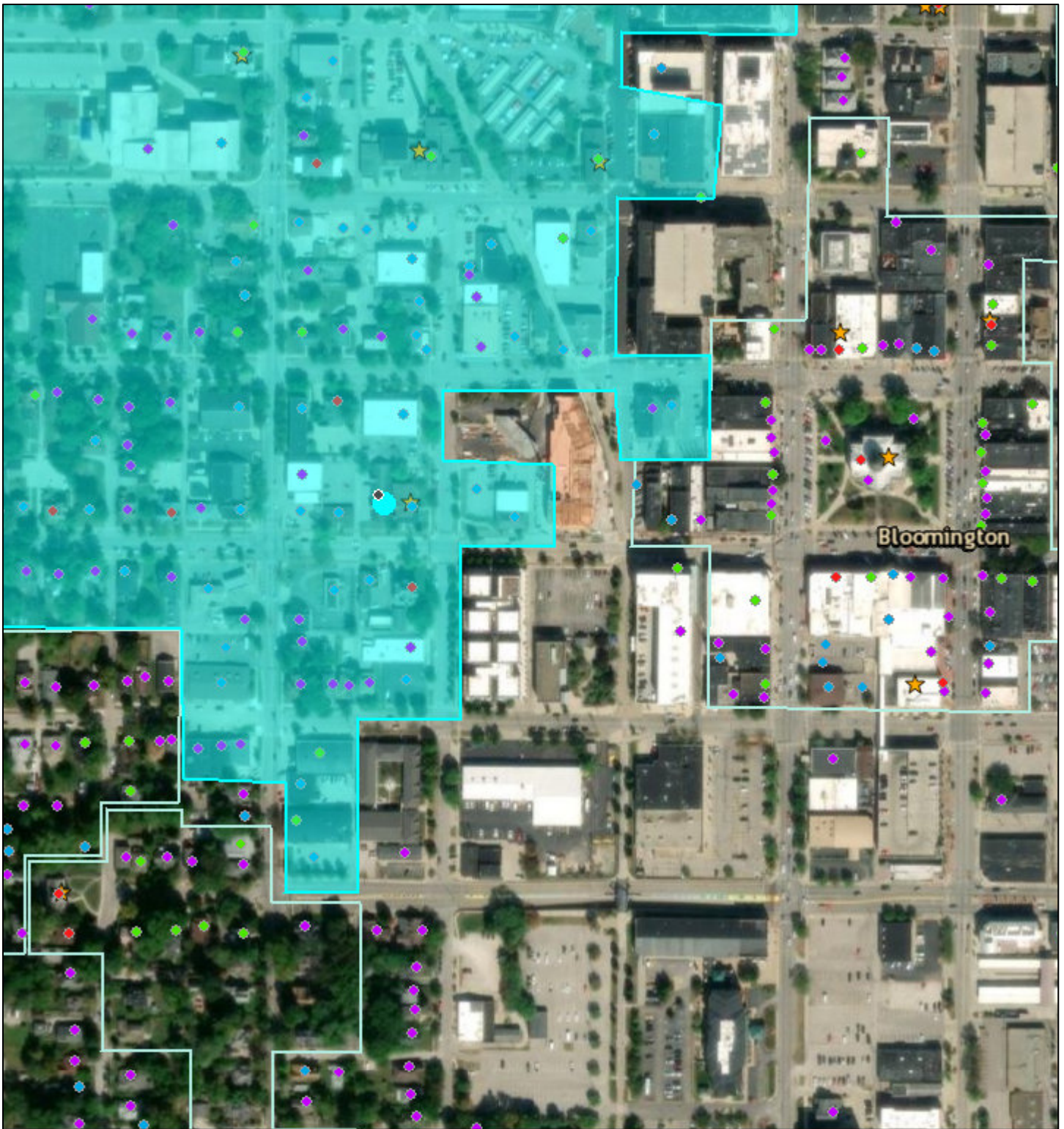


Map Legend

- National Historic Register
- Outstanding
- Notable
- Contributing
- Non-Contributing
- Monroe County Parcels
- Building Areas
- Township Boundaries
- Bloomington Municipal Boundary



Historic Buildings, Bridges, and Cemeteries Map




9/1/2023, 2:56:54 PM

1:4,514

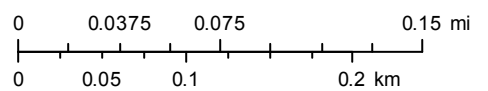
County Survey Sites

- Outstanding
- Notable
- Contributing
- Non-Contributing

- Override 1
-  National Register Sites

Historic Districts

- Override 1
- Historic Districts



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Bloomington Cooperative Living (410 W Kirkwood Ave., Bloomington, IN)
Photo 1
Site Visit September 5, 2023
403 W Kirkwood Ave. - View from north to south, property across the street.



Bloomington Cooperative Living (410 W Kirkwood Ave., Bloomington, IN)

Photo 2

Site Visit September 5, 2023

View from south to north of 410 W Kirkwood Ave. (left) and 404 W Kirkwood Ave. (right)





Bloomington Cooperative Living (410 W Kirkwood Ave., Bloomington, IN)

Photo 3

Site Visit September 5, 2023

View standing on the south and looking north east.





Bloomington Cooperative Living (410 W Kirkwood Ave., Bloomington, IN)

Photo 4

Site Visit September 5, 2023

View looking from the west to the east.





Bloomington Cooperative Living (410 W Kirkwood Ave., Bloomington, IN)

Photo 4

Site Visit September 5, 2023

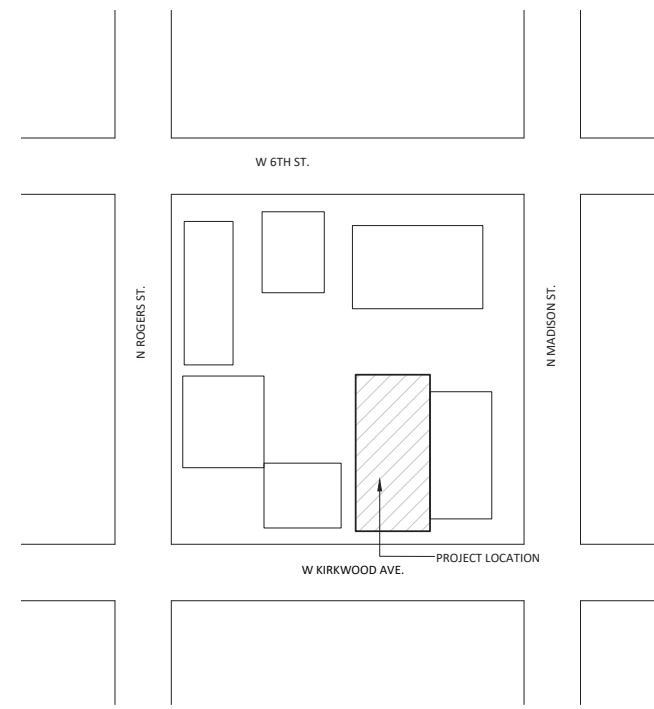
View looking from the west to the south east.

ARCHITECT'S PROJECT NO. 2022-26

BLOOMINGTON COOPERATIVE LIVING

410 W. KIRKWOOD AVENUE, BLOOMINGTON, IN

12/19/2022 Revised **SEPTEMBER 23, 2022**



A LOCATION MAP ↑
SCALE: 1/16" = 1'-0"

LEGAL DESCRIPTION: 013-10490-00 ORIGINAL; PLAT; 151
PARCEL NUMBER: 53-05-32-413-066.000-005

DRAWING INDEX

COVER DRAWING INDEX, SITE LOCATION PLAN
CODE CODE REVIEW, CODE PLAN, & FIRE RATED ASSEMBLIES

CIVIL

C101 SITE PLAN
C201 DETAILS
C201 DETAILS

LANDSCAPE

L101 LANDSCAPE PLAN

ARCHITECTURAL

D101 DEMOLITION PLAN
A101 FLOOR PLAN
A501 CABINET ELEVATIONS, WINDOW & DOOR SCHEDULES
A502 ENLARGED PLANS & DETAILS

MECHANICAL

M001 MECHANICAL SCHEDULES
M002 MECHANICAL DETAILS
M003 MECHANICAL DETAILS
M200 FLOOR PLAN - MECHANICAL

PLUMBING

P001 PLUMBING SCHEDULES
P002 PLUMBING DETAILS
P003 PLUMBING DETAILS
P200 WASTE PLAN
P300 PIPING PLAN

ELECTRICAL

E001 ELECTRICAL ABBREVIATIONS AND SYMBOLS
E002 ELECTRICAL DETAILS
E100 DEMOLITION PLAN ELECTRICAL
E200 LIGHTING PLAN
E300 POWER PLAN
E400 PANEL SCHEDULES
E500 ELECTRICAL SPECIFICATIONS



Marie Elaine Hays 9.23.22

CIVIL ENGINEER



BYNUM FANYO & ASSOCIATES, INC.

BYNUM FANYO
528 N. WALNUT STREET
BLOOMINGTON, IN 47404
812.332.8030
WWW.BYNUMFANYO.COM

MECHANICAL, ELECTRICAL & PLUMBING ENGINEERS



DESIGN-AIRE ENGINEERING, INC.

2707 RAND ROAD
INDIANAPOLIS, IN 46241
317.464.9090
WWW.DAENGINEERING.COM

ARCHITECT



SPRINGPOINT ARCHITECTS PC
213 SOUTH ROGERS STREET, SUITE 5
BLOOMINGTON, INDIANA 47404
812.318.2930
WWW.SPRINGPOINTARCHITECTS.COM

CODE REVIEW

2014 Indiana Building Code (IBC) 12/01/2014 – comprised of 2012 International Building Code & A117.1 Accessible and Usable Buildings and Facilities, 2009 Edition

The one-story existing office building contains 4,058 square feet. The building is of unrated construction with a concrete slab foundation, wood-framed walls, and wood truss roof structure. The building will be renovated to accommodate a 2,940 square foot cooperative living unit with twelve (12) bedrooms and shared kitchen, living and laundry and bathrooms and a 940 square foot meeting space. The R-3 occupancy will be sprinkled with an NFPA 13D system.

Use and Occupancy Classification:

Business Group B to change to Residential Group R-3 (Congregate Living Facilities (non-transient) with 16 occupants or less) and Assembly Group A-2 (Future Tenant).

Section 503 General Building Height and Area Limitations

| Group | Type of Construction | | Actual Area |
|-------|----------------------|-----------|-------------|
| | Type V | B | |
| A-2 | Stories | 1 | 1 |
| | Area (sf) | 6,000 | 940 |
| R-3 | Stories | 3 | 1 |
| | Area (sf) | Unlimited | 3,118 |

Section 420 Groups I-1, R-1, R-2, R-3

420.2 Separation walls. Walls separating dwellings units in the same building, walls separating sleeping units in the same building and walls separating dwellings or sleeping units from other occupancies contiguous to them in the same building shall be constructed as fire partitions in accordance with Section 708.

Section 508 Mixed Use and Occupancy

Uses do not need to be separated under 508.3. However, Exception 2 does apply, and the uses will be separated with a 2-hour fire barrier.

Table 508.4 Required Separation of Occupancies (Hours)

| Occupancy | S | R | NS |
|-----------|---|---|----|
| A & R | 1 | | 2 |

Section 708 Fire Partitions

708.3 Fire-resistance rating. Fire partitions shall have a fire-resistance rating of not less than 1 hour.

Exceptions:

- Corridor walls permitted to have a ½ hour fire-resistance rating by Table 1018.1.
- Dwelling unit and sleeping unit separations in buildings of Type IIB, IIIB, and VB construction shall have fire-resistance ratings of not less than ½ hour in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

Section 707 Fire Barriers

707.3.9 Separated Occupancies. Where the provisions of Section 508.4 are applicable, the fire barrier separating mixed occupancies shall have a fire-resistance ratings of not less than indicated in Table 508.4.

707.5 Continuity. Fire barriers shall extend from the top of the foundation...to the underside of the floor or roof sheathing, slab or deck above and shall be securely attached thereto. Such fire barriers shall be continuous through concealed space...

Chapter 9 – Fire Protection Systems

Section 903 Automatic Sprinkler Systems

The Group A-2 fire area does not meet the criteria established in 903.2.1.3 for an automatic sprinkler system to be installed.

The R-3 fire area requires an automatic sprinkler system to be installed throughout in accordance with NFPA 13D under 903.3.1.3.

Chapter 10 - Means of Egress

Table 1004.1.2 Maximum Floor Area Allowance per Occupant

| Function of Space | Occupant Load Factor | Actual Area | | Actual Occupant Load |
|------------------------|----------------------|-------------|-----|----------------------|
| | | M | F | |
| Assembly, concentrated | 7 net | 644 | 96 | |
| Residential | 200 gross | 2,940 | 15 | |
| TOTAL | | | 111 | |

Section 1015. Exit and Exit Access Doorways

1015.1 Exits or exit access doorways from spaces. Two exits or exit access doorways from any space shall be provided where the occupant load of the space exceeds one of the values on Table 1015.1.

Table 1015.1 Spaces with One Exit or Exit Access Doorway

| Occupancy | Maximum Occupant Load | Actual Occupant Load |
|-----------|-----------------------|----------------------|
| A | 49 | 96 |
| R | 10 | 15 |

1015.2.1 Two exits or exit access doorways. Where two exits or exit access doorways are required from any portion of the exit access, the exit doors shall be placed a distance apart equal to not less than one-

half of the length of the maximum overall diagonal dimension of the building or are to be served measured in a straight line between exit doors.

Table 1016.2 Exit Access Travel Distance

| Occupancy | Without Sprinkler System | With Sprinkler System |
|-----------|--------------------------|-----------------------|
| A, R | 200 | 250 |

Table 1018.1 Corridor Fire-Resistance Rating

| Occupancy | Occupant Load Served by Corridor | Required Fire-Resistance Rating (hours) | |
|-----------|----------------------------------|---|-----------------------|
| | | Without Sprinkler System | With Sprinkler System |
| R | Greater than 10 | Not Permitted | .5 |

Chapter 11 – Accessibility

1107.2 Design. Dwelling units and sleeping units that are required to be Accessible Units, Type A units and Type B units shall comply with the applicable portions of Chapter 10 if ICC A117.1...

1107.6.3 Group R-3. In the Group R-3 occupancies where there are four or more dwelling units or sleeping units intended to be occupied as a residence in a single structure, every dwelling unit and sleeping unit intended to be occupied as a residence shall be a Type B unit.

Chapter 29 – Plumbing Systems

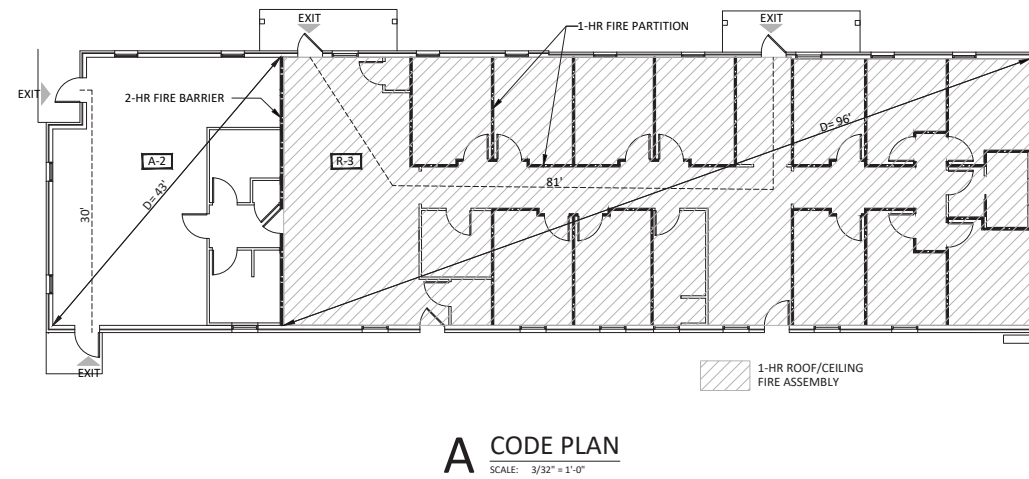
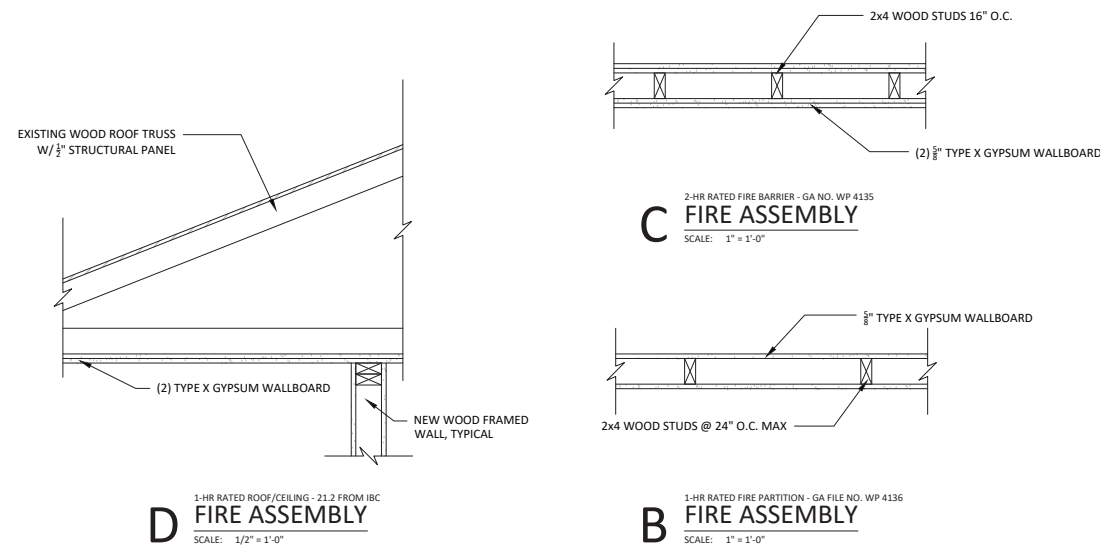
Table 2902.1 Minimum Number of Required Plumbing Fixtures

| Classification | Occupancy | Water Closets | | Lavatories | Bathrooms or Showers | Drinking Fountains | Other |
|----------------|-----------|---------------|-----------|------------|----------------------|--------------------|-------|
| | | M | F | | | | |
| Assembly | A-2 | 1 per 75 | 1 per 200 | 0 | Footnote 'h' & 'i' | 1 service sink | |
| Residential | R-3 | 1 per 10 | 1 per 10 | 1 per 8 | 1 per 100 | 1 service sink | |

Footnote 'h' – Drinking fountains not required where water is served in restaurants free of charge or water. Water will be provided.

Section 2902.2 Separate Facilities

Where plumbing fixtures are required, separate facilities shall be provided for each sex.



A CODE PLAN
SCALE: 3/32" = 1'-0"

certified



9.23.22

project title

project information

BLOOMINGTON
COOPERATIVE LIVING

BLOOMINGTON, IN

410 W. KIRKWOOD AVE

project information

PROJECT NUMBER: 22-27
ISSUE DATE: 09.23.2022
REVISION DATE: 12.19.2022

sheet title

CODE REVIEW, PLANS,
& DRAWING INDEX

sheet number

CODE

certified



Barré Klöpper 9.23.22

project title

BLOOMINGTON
COOPERATIVE LIVING
410 W. KIRKWOOD AVE
BLOOMINGTON, IN

project information

PROJECT NUMBER: 22-27
ISSUE DATE: 09.23.2022
REVISION DATE: 12.19.2022

sheet title

DEMOLITION PLANS

sheet number

D101

DEMOLITION GENERAL NOTES

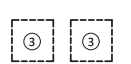
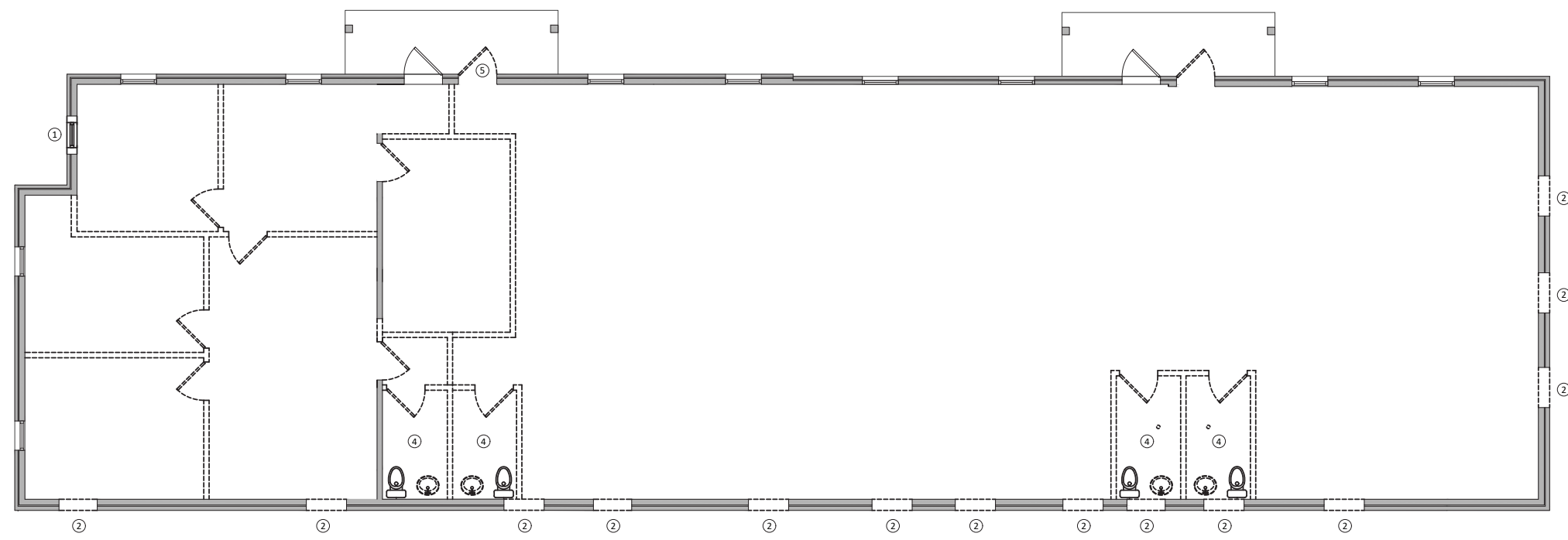
- A. CONTRACTOR SHALL VERIFY IN FIELD LIMITS OF DEMOLITION REQUIRED FOR NEW WORK. NOTIFY ARCHITECT OF DISCREPANCIES.
- B. SECURE STRUCTURE WHEN REMOVING ITEMS. NOTIFY ARCHITECT OF ANY STRUCTURAL ISSUES.
- C. WHERE REMOVAL OF ITEMS LEAVES HOLES AND DAMAGED SURFACES THAT WILL BE EXPOSED IN FINISHED WORK, PATCH AND REPAIR TO MATCH ADJACENT SURFACES.
- D. AS A RESULT OF NEWLY EXPOSED CONDITIONS, NOTIFY ARCHITECT OF NEEDED REPLACEMENT OF DAMAGED MATERIALS.
- E. DISCONNECT ALL SWITCHES, RECEPTACLES AND DEVICES IN AREAS OF WALL TO BE DEMOLISHED.

DEMOLITION KEY NOTES

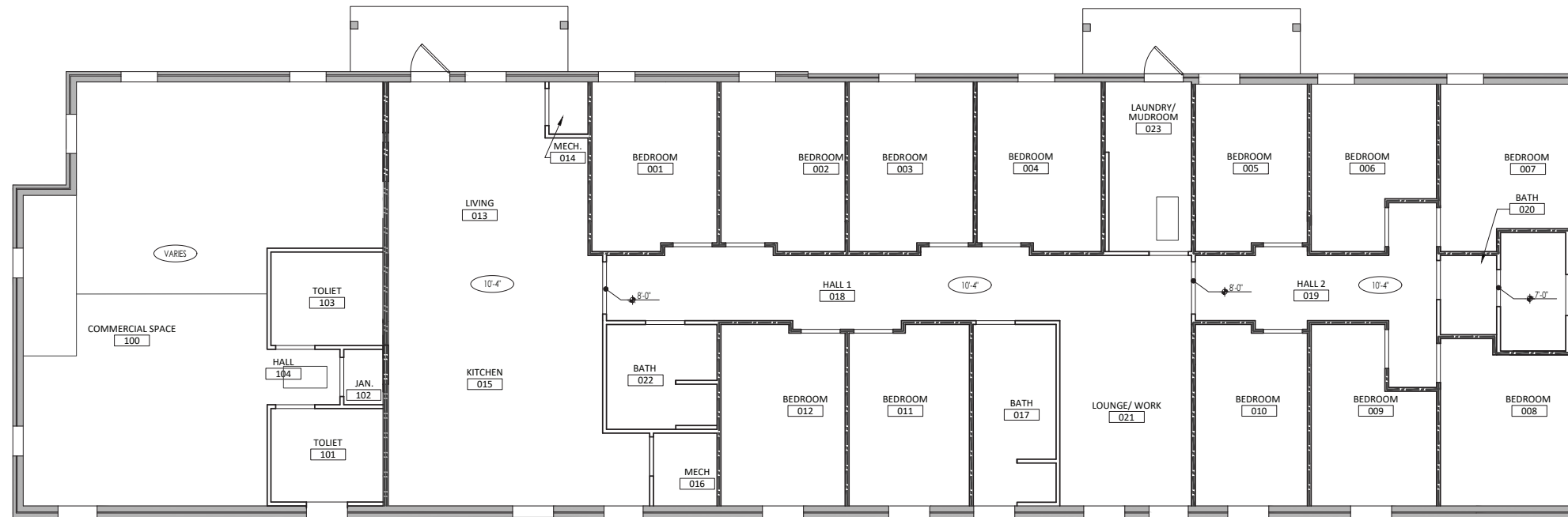
- ① REMOVE WINDOW AND SECTION OF WALL FOR NEW DOOR LOCATION
- ② REMOVE SECTION OF WALL FOR NEW OPENING
- ③ REMOVE A/C UNIT
- ④ REMOVE BATHROOM COMPLETE
- ⑤ REMOVE DOOR, SALVAGE FOR REINSTALLATION

LEGEND

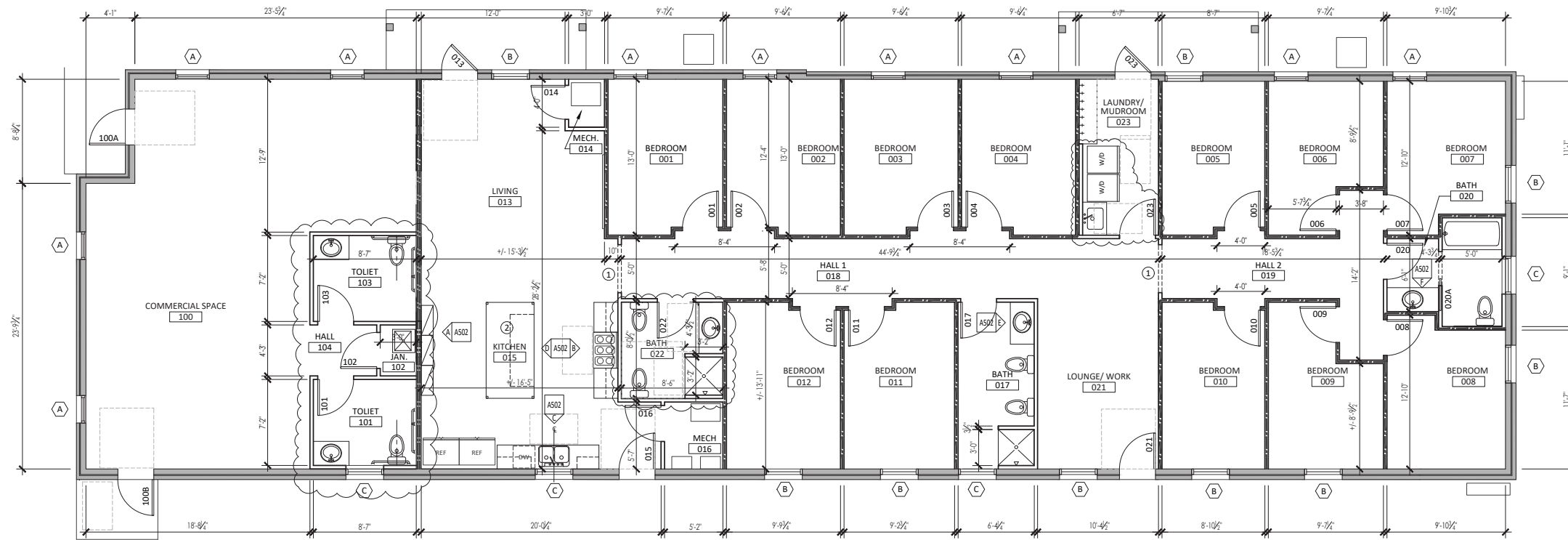
- EXISTING WALL TO REMAIN
- - - - WALL OR ITEM TO BE REMOVED



A DEMOLITION PLAN →
SCALE: 3/16" = 1'-0"



B REFLECTED CEILING PLAN →
SCALE: 3/16" = 1'-0"



A FLOOR PLAN →
SCALE: 3/16" = 1'-0"

GENERAL PLAN NOTES

- A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT.
- B. COORDINATE WORK OF OTHER TRADES WITH YOUR TRADE BEFORE STARTING ANY CONSTRUCTION.
- C. DIMENSIONS ARE TO FACE OF FRAMING AT NEW WALLS AND FACE OF FINISH AT EXISTING WALLS. DRAWINGS ARE NOT TO BE SCALED.
- D. PROVIDE FIRE BLOCKING IN ALL WALLS AT 10'-0" AFF.
- E. PROVIDE SOUND ATTENUATION BATTS IN ALL NEW INTERIOR WALLS.
- F. PROVIDE BLOCKING FOR CABINETS, TOILET ACCESSORIES, HANDRAILS, ETC.
- G. REFERENCE A502 FOR ENLARGED BATHROOM PLANS.
- H. REFERENCE A501 FOR CABINET ELEVATIONS AND SCHEDULES.

PLAN KEY NOTES

- ① PROVIDE CASED DOOR OPENING
- ② SUSPENDED PAN RACK

GENERAL CEILING PLAN NOTES

- A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT.
- B. COORDINATE WORK OF OTHER TRADES WITH YOUR TRADE BEFORE STARTING ANY CONSTRUCTION.

REF. CEILING PLAN NOTES

- ① --

LEGEND

- EXISTING WALL TO REMAIN
- 2 x 4 WALL, U.N.O.
- 1-HR RATED FIRE PARTITION REF. CODE SHEET
- 2-HR RATED FIRE BARRIER REF. CODE SHEET
- EXISTING DOOR TO REMAIN
- NEW DOOR, REFERENCE SCHEDULE
- REQUIRED ACCESSIBLE FIXTURE OR DOOR FLOOR CLEARANCE, SIZE VARIES DEPENDING ON PURPOSE
- LOWER GYPSUM WALLBOARD CEILING

certified

project title

BLOOMINGTON
COOPERATIVE LIVING

BLOOMINGTON, IN

410 W. KIRKWOOD AVE

project information

PROJECT NUMBER: 22-27
ISSUE DATE: 08.26.2022
REVISION DATE: 11.08.2022
12.19.2022

sheet title

FLOOR PLAN &
REFLECTED CEILING PLAN

sheet number

A101

certified



9.23.22

project title

BLOOMINGTON COOPERATIVE LIVING
BLOOMINGTON, IN
410 W. KIRKWOOD AVE

project information

PROJECT NUMBER: 22-27
ISSUE DATE: 09.23.2022
REVISION DATE: 12.19.2022

sheet title

CABINET ELEVATIONS & WINDOW & DOOR SCHEDULES

sheet number

A501

| HARDWARE SCHEDULE | | | | |
|---|----------------------------|---------------|-------|--------------------------------|
| SET NO. | SPECIFICATION | | | |
| LIVING UNIT ENTRY (013 & 023) | | | | |
| 1 | EXISTING | -- | -- | HINGES |
| | 1 EA | -- | -- | KEYPAD ENTRY LOCK* |
| | EXISTING | -- | -- | CLOSER |
| | EXISTING | -- | -- | THRESHOLD |
| | EXISTING | -- | -- | HEAD & JAMB WEATHERSTRIP |
| LIVING UNIT ENTRY-2 (015 & 021) | | | | |
| 2 | 3 EA. BB1279 NRP | 4 1/2 x 4 1/2 | US26D | HINGES |
| | 1 EA | -- | -- | KEYPAD ENTRY LOCK* |
| | 1 EA. BY DOOR MANUFACTURER | ALUM | -- | THRESHOLD |
| | 1 SET BY DOOR MANUFACTURER | ALUM | -- | HEAD & JAMB WEATHERSTRIP |
| | 1 SET BY DOOR MANUFACTURER | ALUM | -- | BOTTOM SWEEP |
| COMMERCIAL SPACE ENTRY (100A) | | | | |
| 3 | EXISTING | -- | -- | HINGES |
| | 1 EA. CD98L-NL | 626 | -- | RIM EXIT DEVICE |
| | 1 EA. 1E72 | 626 | -- | RIM CYLINDER |
| | EXISTING | -- | -- | CLOSER |
| | EXISTING | -- | -- | THRESHOLD |
| | EXISTING | -- | -- | HEAD & JAMB WEATHERSTRIP |
| | EXISTING | -- | -- | BOTTOM SWEEP |
| COMMERCIAL SPACE ENTRY-2 (100B) | | | | |
| 4 | 3 EA. BB1279 NRP | 4 1/2 x 4 1/2 | US26D | HINGES |
| | 1 EA. CD98L-NL | 626 | -- | RIM EXIT DEVICE |
| | 1 EA. 1E72 | 626 | -- | RIM CYLINDER |
| | 2 EA. 4041 | SCUSH | ALUM | CLOSER |
| | 1 EA. BY DOOR MANUFACTURER | ALUM | -- | THRESHOLD |
| | 1 SET BY DOOR MANUFACTURER | ALUM | -- | HEAD & JAMB WEATHERSTRIP |
| | 1 SET BY DOOR MANUFACTURER | ALUM | -- | BOTTOM SWEEP |
| | 1 SET BY DOOR MANUFACTURER | ALUM | -- | BOTTOM SWEEP |
| COMMERCIAL SPACE ENTRY - 90 MINUTE FIRE RATED OPENING (104) | | | | |
| 5 | 3 EA. BB1279 NRP | 4 1/2 x 4 1/2 | US26D | HINGES |
| | 1 EA. | -- | -- | KEYPAD ENTRY LOCK* |
| | 1 SET 8703 | ALUM | -- | SMOKE GASKETING |
| | 1 EA. 4041XP | SCUSH | ALUM | CLOSER |
| | 1 EA. 236W | US26D | -- | STOP |
| PASSAGE (100C, 102, 014, 016, 022) | | | | |
| 6 | 3 EA. BB1279 | 4 1/2 x 4 1/2 | US26D | HINGES |
| | 1 EA. 9K30N15D | 626 | -- | PASSAGE |
| | 1 EA. 236W | US26D | -- | WALL STOP |
| | 1 EA. 236W | US26D | -- | WALL STOP |
| PRIVACY-RESTROOM (101, 103, 017, 020) | | | | |
| 7 | 3 EA. BB1279 NRP | 4 1/2 x 4 1/2 | US26D | HINGES |
| | 1 EA. 9K30N15D | 626 | -- | PASSAGE |
| | 1 EA. 3216 | 626 | -- | DEADBOLT W/OCCUPANCY INDICATOR |
| | 1 EA. 4041 | SCUSH | ALUM | CLOSER |
| | 1 EA. 236W | US26D | -- | WALL STOP |
| | 1 EA. 1905 - 6x34 | US26D | -- | MOP PLATE |
| PRIVACY-BEDROOM - 20 MINUTE FIRE RATED OPENING (001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012) | | | | |
| 8 | 3 EA. BB1279 NRP | 4 1/2 x 4 1/2 | US26D | HINGES |
| | 1 EA. 9K37L15D | 626 | -- | PRIVACY LOCK |
| | 1 EA. 4041 | SCUSH | ALUM | CLOSER |
| | 1 SET 8703 | ALUM | -- | SMOKE GASKETING |
| | 1 EA. 236W | US26D | -- | WALL STOP |

GENERAL:

- CONTRACTOR TO COORDINATE THE FINAL DOOR HARDWARE SETS WITH DOORS, FRAMES, AND RELATED WORK TO ENSURE PROPER SIZE, THICKNESS, HAND, FUNCTION, AND FINISH OF DOOR.
- SUBMIT THE FINAL DOOR HARDWARE SETS AT EARLIEST POSSIBLE DATE. INCLUDE PRODUCT DATA, SAMPLES, SHOP DRAWINGS AND OTHER INFORMATION ESSENTIAL TO THE COORDINATED REVIEW OF THE DOOR HARDWARE SET.
- KEYING SCHEDULE: PREPARED BY OR UNDER THE SUPERVISION OF THE INSTALLER, DETAILING OWNER'S FINAL KEYING INSTRUCTIONS FOR LOCKS. INCLUDES SCHEMATIC KEYING DIAGRAM AND INDEX EACH KEY SET TO UNIQUE DOOR DESIGNATIONS.
- ALL DOOR TRIM TO BE LEVER STYLE, ADA COMPLIANT.

PRODUCTS:

KEYPAD ENTRY LOCKSET: COORDINATE WITH OWNER
HINGES: STAINLESS STEEL, MCKINNEY OR EQUAL
LOCKSET: CYLINDRICAL, BEST ACCESS OR EQUAL, LEVERS - CAST
RIM DEVICES: VON DUPRIN OR EQUAL
SURFACE CLOSERS: LCN OR EQUAL
TRIM UNITS, STOPS & HOLDERS: HAGER OR EQUAL

| DOOR SCHEDULE | | | | | | | |
|---------------|------------|--------|-------|--------|-------------|--------------|---------|
| NUMBER | MATERIAL | TYPE | WIDTH | HEIGHT | FIRE RATING | HARDWARE SET | REMARKS |
| 001 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 002 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 003 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 004 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 005 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 006 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 007 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 008 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 009 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 010 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 011 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 012 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 20 MIN | 8 | - |
| 013 | ETR | ETR | - | - | - | 1 | - |
| 014 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 6 | - |
| 015 | INSL. FBGL | HINGED | 3'-0" | 7'-0" | - | 2 | 2 |
| 016 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 6 | - |
| 017 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 7 | - |
| 020 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 7 | - |
| 021 | INSL. FBGL | HINGED | 3'-0" | 7'-0" | - | 2 | 2 |
| 022 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 6 | - |
| 023 | ETR | ETR | - | - | - | 1 | - |
| 100A | ETR | HINGED | 3'-0" | 7'-0" | - | 3 | 1 |
| 100B | INSL. FBGL | HINGED | 3'-0" | 7'-0" | - | 4 | - |
| 100C | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 6 | - |
| 101 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 7 | - |
| 102 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 6 | - |
| 103 | SOLID CORE | HINGED | 3'-0" | 7'-0" | - | 7 | - |
| 104 | SOLID CORE | HINGED | 3'-0" | 7'-0" | 90 MIN | 5 | - |

GENERAL NOTES:

- A. DOORS TO BE SOLID CORE MDF, PAINTED, 2-PANEL.

REMARKS:

- EXISTING DOOR RELOCATED.
- HALF-LITE DOOR.

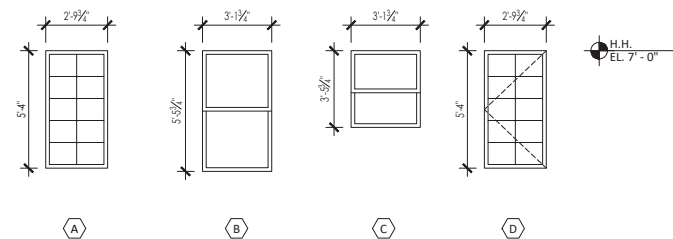
| WINDOW SCHEDULE | | | | | | | |
|-----------------|----------|--------------------------------|-------------|-----------|------------|-------------|---------|
| WINDOW | MFR. | SERIES | OPERATION | MODEL NO. | R.O. WIDTH | R.O. HEIGHT | REMARKS |
| A | EXISTING | EXISTING | FIXED | NA | 2'-9 3/4" | 5'-4" | - |
| B | PELLA | LIFESTYLE SERIES WOOD OR EQUAL | DOUBLE HUNG | 3765 | 3'-1 1/2" | 5'-5 3/4" | - |
| C | PELLA | LIFESTYLE SERIES WOOD OR EQUAL | DOUBLE HUNG | 3741 | 3'-1 1/2" | 3'-5 3/4" | - |
| D | PELLA | LIFESTYLE SERIES WOOD OR EQUAL | CASEMENT | CUSTOM | 2'-9 3/4" | 5'-4" | 1 |

GENERAL NOTES:

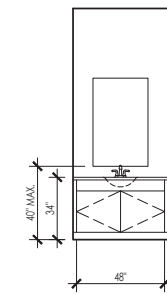
- A. WINDOWS TO MEET SHGC-0.25 AND U-3.69.
B. COORDINATE INTERIOR & EXTERIOR FINISHES OF NEW WINDOWS WITH EXISTING.
C. WINDOWS IN BATHROOMS AND TOILET ROOMS TO BE TEMPERED AND HAVE OBSCURE GLAZING.
D. WINDOWS ADJACENT TO DOORS TO BE TEMPERED.

REMARKS:

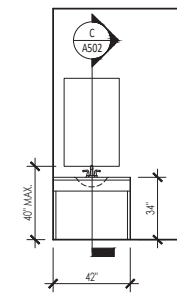
- VERIFY SIZE IN FIELD.



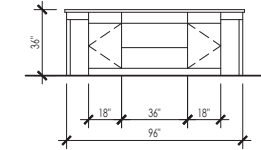
WINDOW ELEVATION
SCALE: 1/4" = 1'-0"



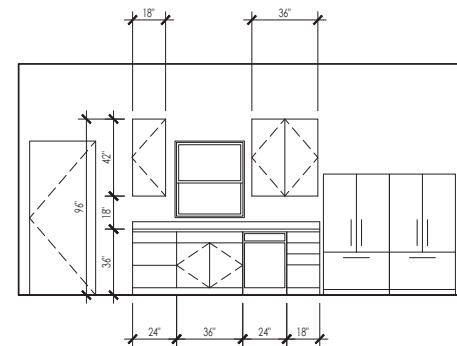
BATH 003 ELEVATION
SCALE: 1/4" = 1'-0"



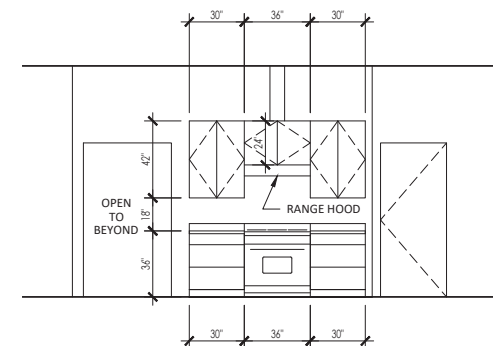
TOILET 103, OPP. HAND - TOILET 101 & BATH 017 ELEVATION
SCALE: 1/4" = 1'-0"



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



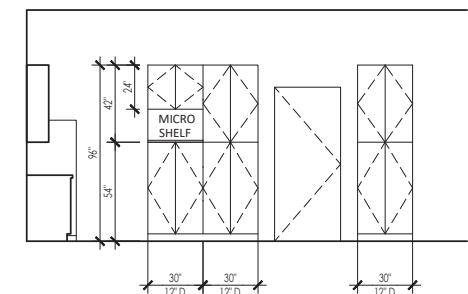
KITCHEN ELEVATION
SCALE: 1/4" = 1'-0"



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

GENERAL NOTES:

- PROVIDE FILLER PANELS AS REQUIRED.
- PROVIDE FINISHED ENDS AT EXPOSED CABINET SIDES.



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

certified



9.23.22

project title

**BLOOMINGTON
COOPERATIVE LIVING**
 410 W. KIRKWOOD AVE
 BLOOMINGTON, IN

project information

PROJECT NUMBER: 22-27
 ISSUE DATE: 09.23.2022
 REVISION DATE: 12.19.2022

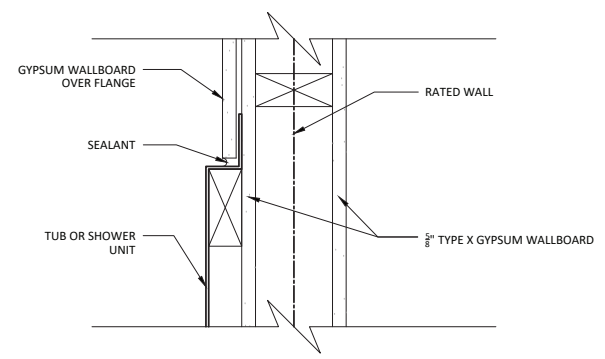
sheet title

ENLARGED PLANS
& DETAILS

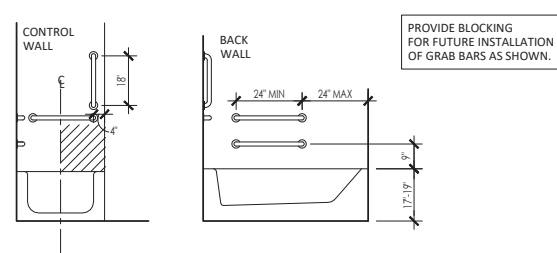
sheet number

A502

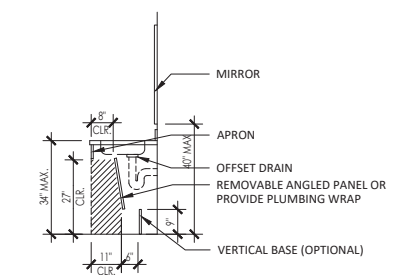
| TAG | ACCESSORY | REMARKS | MOUNTING HEIGHT |
|-----|-------------------------|--|-----------------------|
| TT | TOILET TISSUE DISPENSER | PROVIDED BY OWNER, INSTALLED BY CONTRACTOR | SEE DETAIL THIS SHEET |
| PT | PAPER TOWEL DISPENSER | PROVIDED BY OWNER, INSTALLED BY CONTRACTOR | 42" TO BOTTOM |
| GB | GRAB BARS | (1) 42", (1) 36" AND (1) 18" | SEE DETAIL THIS SHEET |
| FG | FUTURE GRAB BARS | BLOCKING FOR FUTURE INSTALLATION | SEE DETAIL THIS SHEET |
| M | MIRROR | 20" x 36" | 40" TO BOTTOM |
| S | SHOWER SEAT | PROVIDED BY OWNER, INSTALLED BY CONTRACTOR | SEE DETAIL THIS SHEET |
| FS | FUTURE SHOWER SEAT | PROVIDED BY OWNER, INSTALLED BY CONTRACTOR | SEE DETAIL THIS SHEET |



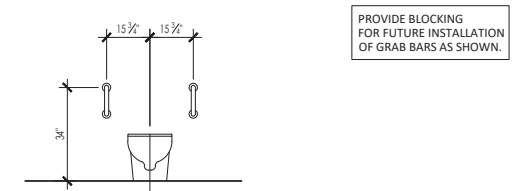
L BATH 020
TUB FIRE WALL
SCALE: 3/8" = 1'-0"



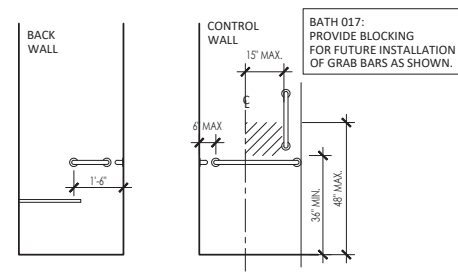
K BATH 020
GRAB BARS
SCALE: 3/8" = 1'-0"



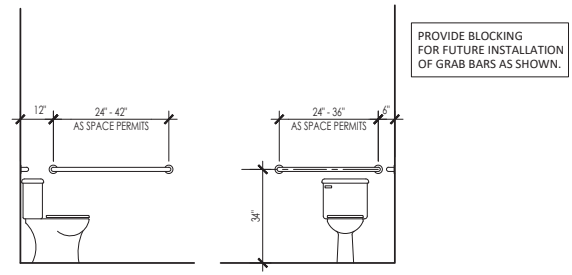
G ACCESSIBLE TOILETS 101 & 103 & BATHS 017 & 020
VANITY DETAIL, TYPICAL
SCALE: 3/8" = 1'-0"



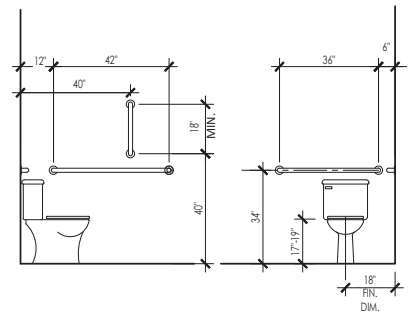
J BATH 017
BIDET SWING-UP GRAB BARS
SCALE: 3/8" = 1'-0"



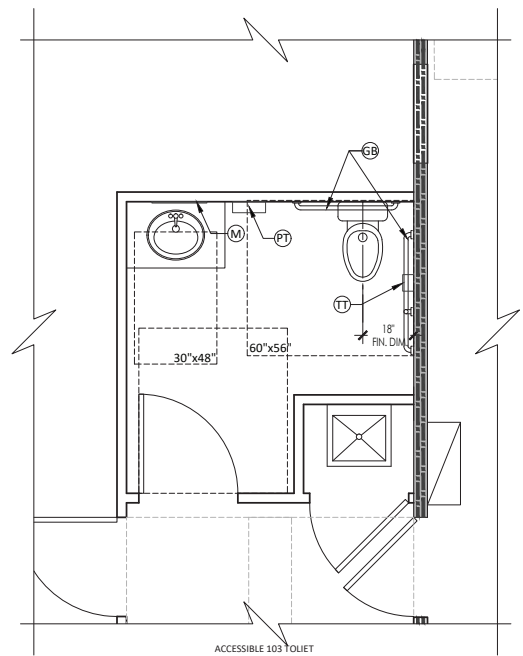
F ACCESSIBLE TOILET 103 & BATH 017
SHOWER GRAB BARS
SCALE: 3/8" = 1'-0"



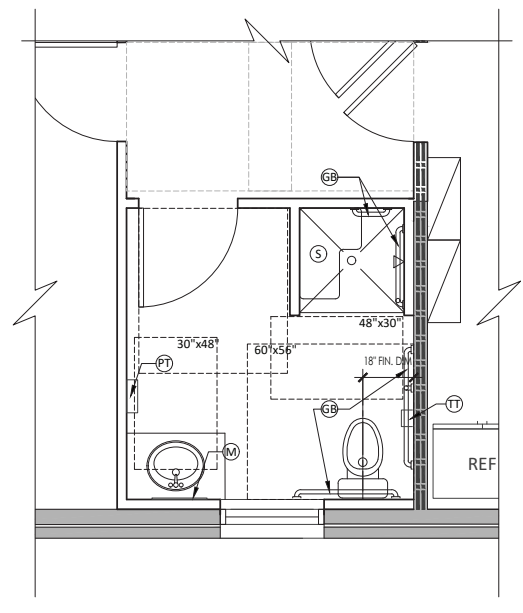
H BATHS 017 & 020
TOILET GRAB BARS
SCALE: 3/8" = 1'-0"



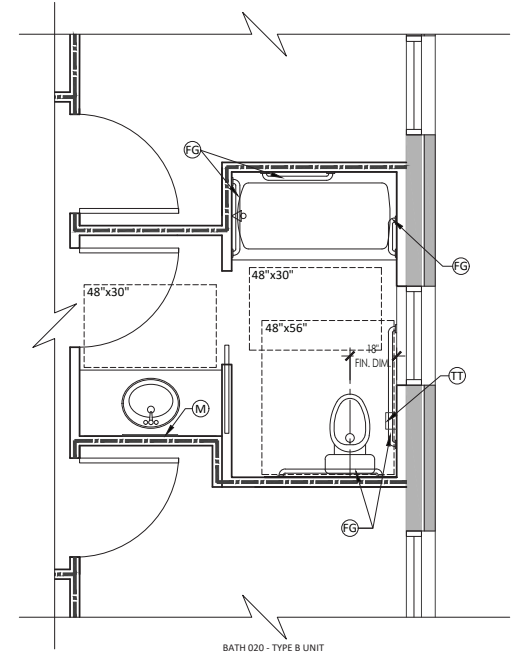
E ACCESSIBLE TOILETS 101 & 103
TOILET GRAB BARS
SCALE: 3/8" = 1'-0"



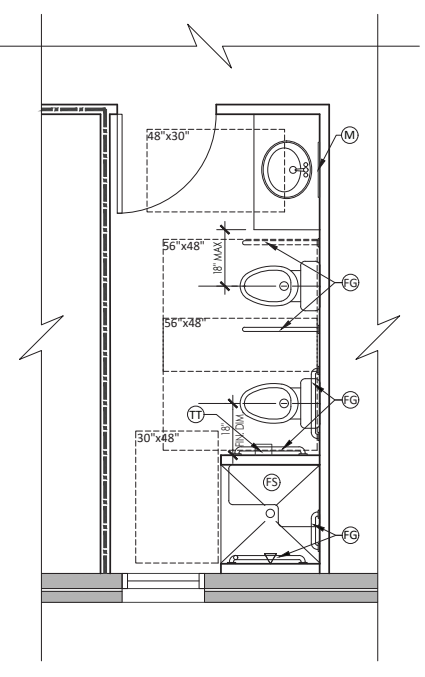
D ACCESSIBLE 103 TOILET
ENLARGED PLAN
SCALE: 3/8" = 1'-0"



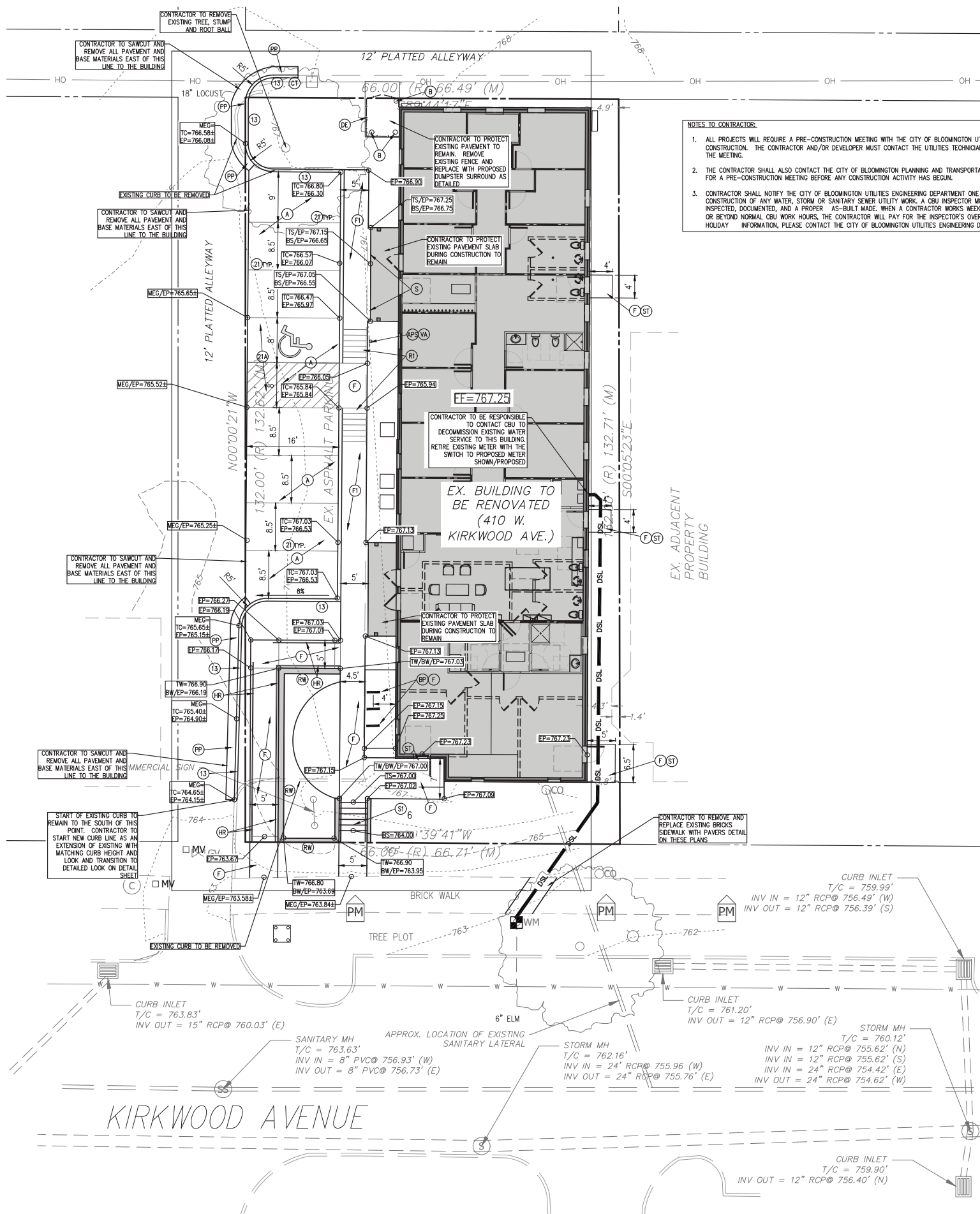
C ACCESSIBLE TOILET 101
ENLARGED PLAN
SCALE: 3/8" = 1'-0"



B BATH 020 - TYPE B UNIT
ENLARGED PLAN
SCALE: 3/8" = 1'-0"



A BATH 017 - TYPE B UNIT
ENLARGED PLAN
SCALE: 3/8" = 1'-0"



NOTES TO CONTRACTOR:

- ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT THE UTILITIES TECHNICIAN AT (812)349-3676 TO SCHEDULE THE MEETING.
- THE CONTRACTOR SHALL ALSO CONTACT THE CITY OF BLOOMINGTON PLANNING AND TRANSPORTATION DEPARTMENT AT 812-349-3423 FOR A PRE-CONSTRUCTION MEETING BEFORE ANY CONSTRUCTION ACTIVITY HAS BEGUN.
- CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CBU INSPECTOR MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND A PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS WEEKENDS, A CBU DESIGNATED HOLIDAY, OR BEYOND NORMAL CBU WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CBU WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT AT (812)349-3660.

SITE LEGEND

- (A) PROPOSED ASPHALT PAVEMENT - REFER TO DETAIL
- (F) PROPOSED CONCRETE SIDEWALK - REFER TO DETAIL
- (PP) PROPOSED MONOLITHIC CURB AND SIDEWALK - REFER TO DETAIL
- (13) PROPOSED ROAD PAVEMENT PATCH, 18" WIDE MIN. - REFER TO DETAIL
- (R1) PROPOSED 6" STANDING CURB - REFER TO DETAIL
- (21) PROPOSED SIDEWALK ADA ACCESSIBLE CURB RAMP - REFER TO DETAIL
- (21A) PROPOSED PARKING MARKING: PAINTED, SOLID, WHITE, 4" WIDE - REFER TO PLAN FOR LAYOUT
- (21A) PROPOSED ADA PARKING MARKING: PAINTED, SOLID, BLUE - REFER TO DETAIL
- (ST) PROPOSED CONCRETE STOOP TO CONNECT TO SIDEWALK WITH EXPANSION JOINT - REFER TO GRADING PLAN AND DETAILS IN ARCHITECT'S PLANS FOR CONNECTION TO BUILDING
- (APS) ACCESSIBLE PARKING SIGN, REFER TO DETAIL
- (VA) VAN ACCESSIBLE SUPPLEMENTAL SIGN ACCORDING TO NATIONAL ADA STANDARDS - FASTEN BELOW ACCESSIBLE PARKING SIGN WHERE INDICATED, REFER TO DETAIL
- (RW) PROPOSED RETAINING WALL AND RAILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION AND DETAILS
- (CT) PROPOSED CONCRETE CURB TRANSITION, 6' LENGTH FROM 0" TO 6" CURB HEIGHT
- (BP) SURFACE MOUNT THREE (3) ULINE BRAND MODEL H-2892 U-RACKS - REFER TO MANUFACTURER'S RECOMMENDATIONS ON INSTALLATION - SPACING SHALL BE 3' BETWEEN RACKS AND 4' MIN. FROM BUILDING AND EDGE OF PAVEMENT TO SOUTH AND NORTH TO MIDDLE OF RACK
- (DE) PROPOSED DUMPSTER SURROUND - REFER TO DETAILS
- (B) PROPOSED BOLLARDS - REFER TO DETAILS
- (SI) PROPOSED CONCRETE STAIRS WITH CHECK WELLS AND HANDRAILS AS INDICATED ON PLANS - REFER TO THESE PLANS FOR DETAILS
- (HR) PROPOSED HANDRAIL ON BOTH SIDES OF CONCRETE SIDEWALK/RAMPING CONDITION FOR ACCESSIBLE USE - REFER TO DETAILS
- SEE ARCHITECTURAL & STRUCTURAL DRAWINGS/SPECIFICATIONS FOR ALL SHADED AREAS
- PROPOSED 'ADA' ACCESSIBLE PARKING SPACE

EXISTING LEGEND

- EXISTING FENCE
- EXISTING WATER LINE
- EXISTING OVERHEAD UTILITY LINES
- EXISTING UNDERGROUND ELECTRIC LINES
- EXISTING UNDERGROUND TELEPHONE LINES
- EXISTING UNDERGROUND FIBER OPTIC LINES
- EXISTING GAS LINE
- EXISTING SANITARY FORCEMAIN
- EXISTING CONTOUR
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING STORM SEWER AND INLET
- SANITARY MANHOLE
- STORM MANHOLE
- MONITORING VALVE
- GAS VALVE
- COMMUNICATIONS MANHOLE
- PARKING METER
- WATER METER
- OVERHANG SIGN POST
- CURB INLET
- CLEANOUT
- LIGHT POLE
- POWER POLE
- PROPERTY LINE

PARKING AND PAVEMENT NOTES

- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC DEVICES, 1988 EDITION AS AMENDED.
- ALL PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALT PAVEMENT / YELLOW ON CONCRETE PAVEMENT AND SHALL BE FOUR (4) INCHES WIDE UNLESS INDICATED OTHERWISE.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE. ALL CURB RADII ARE TO BE 5' UNLESS INDICATED OTHERWISE.
- CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.
- JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOLS.
- CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY AND AS DIRECTED BY INSPECTOR TO INSURE POSITIVE DRAINAGE. (TYPICAL AT ALL INTERSECTIONS).
- CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.C. OF AMERICA, INC. AND THE HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT-OF-WAY THAT GET REMOVED WITH THE PROPOSED SCHEDULED WORK. THE CONTRACTOR SHALL TAKE NOTE OF LOCATION, SIZE, MATERIAL, AND TYPE OF PAVEMENT MARKINGS THAT ARE BEING REPLACED TO ENSURE ACCURATE REPLACEMENT AFTER CONSTRUCTION HAS COMMENCED.

UTILITY LEGEND

PROPOSED 2" PRIVATE DOMESTIC SERVICE LINE: DSL
ALL DOMESTIC SERVICE LINES USE SDR-21 AND FITTINGS FOR DOMESTIC WATER SERVICE LINES. THE MINIMUM SDR-21 ALLOWABLE MATERIAL SHALL BE SHALL BE PR200 AND CONFORM TO ASTM D2241 AND D3139 WITH PUSH-ON JOINTS. SOLVENT CEMENT JOINTS WILL NOT BE ALLOWED FOR PVC. ALL FITTINGS SHALL BE OF THE TYPE AND MATERIAL RECOMMENDED BY THE MANUFACTURER. ELECTROMETRIC GASKETS SHALL BE MANUFACTURED TO CONFORM TO ASTM F-477, 48" COVER MIN. REFER TO THE "P" SERIES DRAWINGS FOR MORE INFORMATION AND FINAL SIZE DETERMINATION ON THIS WATER LINE.

CONTRACTOR TO REUSE EXISTING WATER METER PIT WITH NEW PROPOSED WATER LINE AS INDICATED TO IT FROM BUILDING. USE A 2" DOMESTIC METER YOKESETTER IN METER PIT PER CBU STANDARDS. REFER TO CBU SPECIFICATIONS. COORDINATE FINAL SIZE OF REQUIRED METER WITH CBU

PROPOSED WATER VALVE PER CBU SPECIFICATIONS

NOTE: ALL WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BLOOMINGTON UTILITY SPECIFICATIONS.

GENERAL NOTES

- BOUNDARY AND TOPO BY BYNUM FANYO AND ASSOCIATES, 528 NORTH WALNUT STREET, BLOOMINGTON, INDIANA 47404. PHONE (812) 332-8030
- DEVELOPER: BLOOMINGTON COOPERATIVE LIVING - 404 W KIRKWOOD AVE, BLOOMINGTON, IN 47404 (CONTACT: (812) 339-5829)
- PROJECT ADDRESS: 410 W KIRKWOOD AVE, BLOOMINGTON, INDIANA 47404
- ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
- ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- HYDRANT LOCATION SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL/INSPECTOR.
- EXISTING UTILITIES ON SITE SHALL BE RELOCATED AS REQUIRED. CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH RELOCATION.
- SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

UTILITY CONTACT INFORMATION

| GAS | SEWER AND WATER | ELECTRIC |
|--|--|--|
| CENTER POINT 600 INDUSTRIAL DRIVE FRANKLIN, IN 46131 KIM BURTON-KELLY (317)736-2915 | CITY OF BLOOMINGTON UTILITIES 600 E. MILLER DR. BLOOMINGTON, IN 47402 NANCY AXSON (812)349-3689 | DUKE ENERGY 1100 W 2ND ST BLOOMINGTON, IN 47403 CHAD HEACOX (812)337-3043 |
| TELEPHONE | CABLE TELEVISION | UNDERGROUND UTILITY LOCATION |
| AT&T P.O. BOX 56 BLOOMINGTON, IN 47402 RUSS OWEN (812)606-2973 | COMCAST 2450 SOUTH HENDERSON STREET BLOOMINGTON, IN 47404 STEVE MCCARTOR (812)355-7822 | INDIANA UNDERGROUND PLANT PROTECTION 1-(800)382-5544 |

NOTE: ALL ITEMS SCHEDULED TO BE REMOVED SHALL BE DISPOSED OF APPROPRIATELY OFF SITE INCLUDING ANY TREES/VEGETATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ITEMS THAT ARE NOT SCHEDULED FOR REMOVAL BUT WOULD IMPEDE THE SUCCESSFUL CONSTRUCTION OF ALL IMPROVEMENTS AND A COMPLETE FUNCTIONAL PROPOSED SITE PLAN. ALL ITEMS NOT SCHEDULED FOR REMOVAL SHALL REMAIN IN PLACE AND PROTECTED DURING CONSTRUCTION.

THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & CITY OF BLOOMINGTON UTILITIES STANDARD SPECIFICATIONS IS TO BE USED WITH THESE PLANS

SITE INFORMATION

TOTAL LOT ACREAGE:
8,835 SQ. FT. = 0.20 ACRES

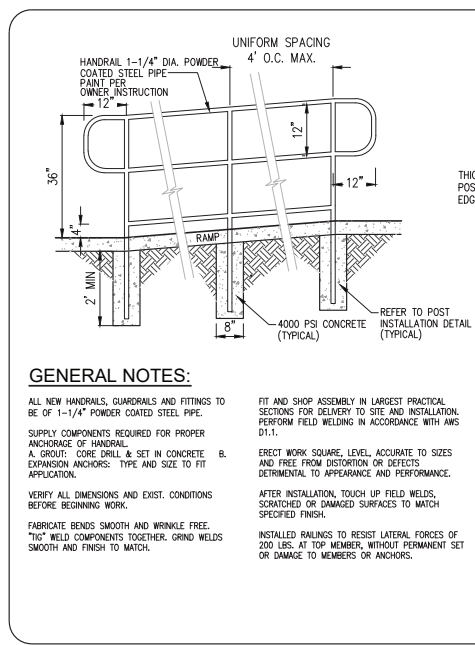
TOTAL PROPOSED IMPERVIOUS AREA (WITHIN LOT AREA) = 6,891 SQ. FT. = 0.16 ACRES = 78%

TOTAL PROPOSED PARKING: 7 STALLS WITH 1 ADA = 8 TOTAL

ALL WORK WITHIN EXISTING AND PROPOSED RIGHT-OF-WAY MUST BE CONDUCTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE CITY ALL REQUIRED INSPECTIONS AND TESTS. ALL REQUIRED TESTS SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.



GENERAL NOTES:

ALL NEW HANDRAILS, GUARDRAILS AND FITTINGS TO BE OF 1-1/4" POWDER COATED STEEL PIPE.

SUPPLY COMPONENTS REQUIRED FOR PROPER ANCHORAGE OF HANDRAIL.

A. GROUT: CORE DRILL & SET IN CONCRETE. EXPANSION ANCHORS: TYPE AND SIZE TO FIT APPLICATION.

B. VERIFY ALL DIMENSIONS AND EXIST. CONDITIONS BEFORE BEGINNING WORK.

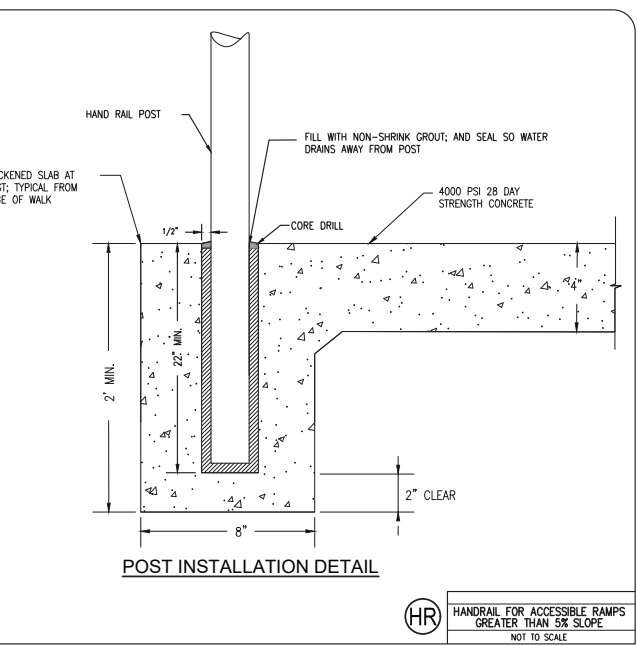
FABRICATE BENDS SMOOTH AND WRINKLE FREE. "TIG" WELD COMPONENTS TOGETHER. GRIND WELDS SMOOTH AND FINISH TO MATCH.

FIT AND SHOP ASSEMBLY IN LARGEST PRACTICAL SECTIONS FOR DELIVERY TO SITE AND INSTALLATION. PERFORM FIELD WELDING IN ACCORDANCE WITH AWS D1.1.

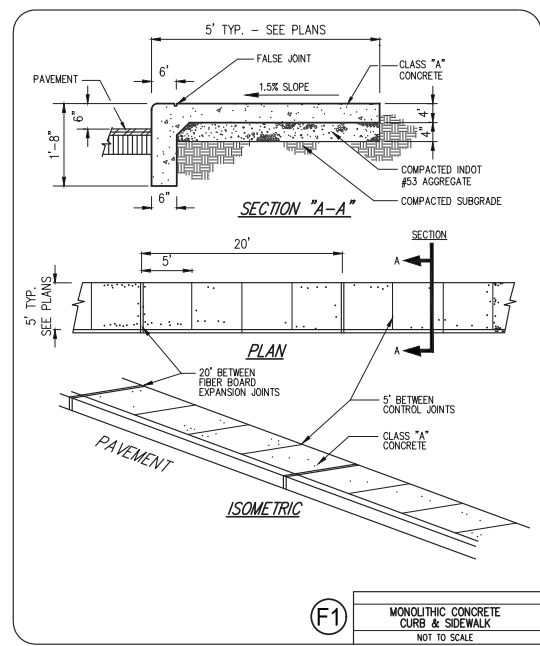
ERECT WORK SQUARE, LEVEL, ACCURATE TO SIZES AND FREE FROM DISTORTION OR DEFECTS DETRIMENTAL TO APPEARANCE AND PERFORMANCE.

AFTER INSTALLATION, TOUCH UP FIELD WELDS, SMOOTHED OR DAMAGED SURFACES TO MATCH SPECIFIED FINISH.

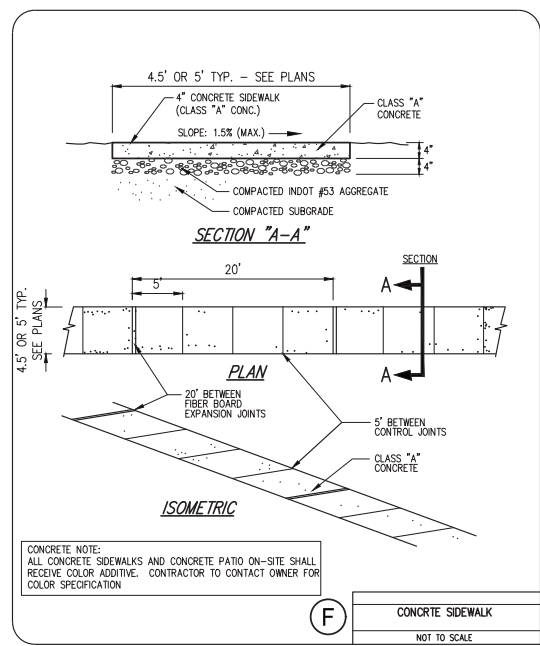
INSTALLED RAILINGS TO RESIST LATERAL FORCES OF 200 LBS. AT TOP MEMBER, WITHOUT PERMANENT SET OR DAMAGE TO MEMBERS OR ANCHORS.



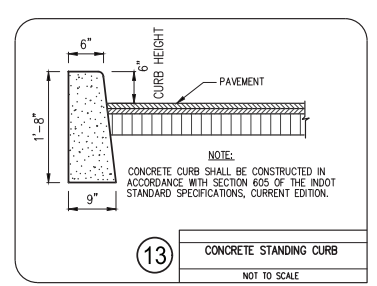
(HR) HANDRAIL FOR ACCESSIBLE RAMPS GREATER THAN 5% SLOPE
NOT TO SCALE



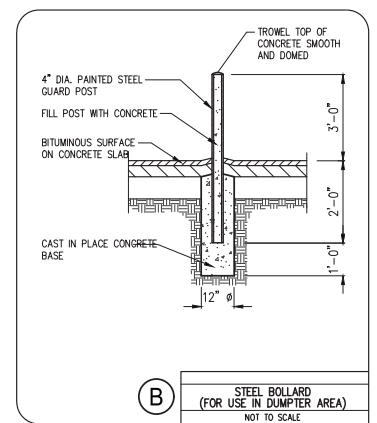
(F1) MONOLITHIC CONCRETE CURB & SIDEWALK
NOT TO SCALE



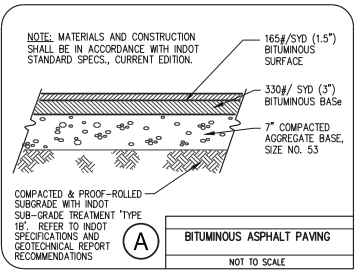
(F) CONCRETE SIDEWALK
NOT TO SCALE



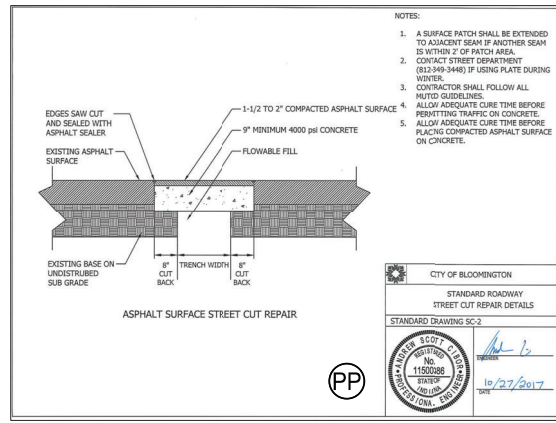
(13) CONCRETE STANDING CURB
NOT TO SCALE



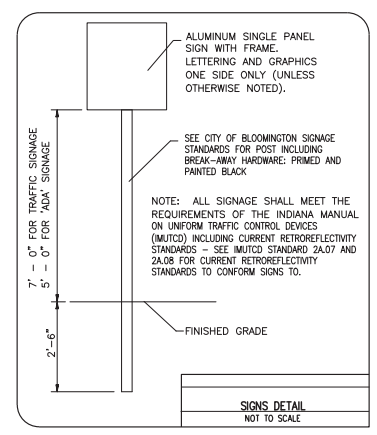
(B) STEEL BOLLARD (FOR USE IN DUMPSTER AREA)
NOT TO SCALE



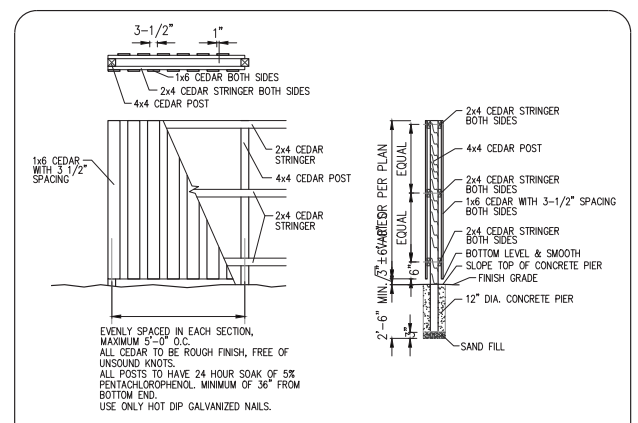
(A) BITUMINOUS ASPHALT PAVING
NOT TO SCALE



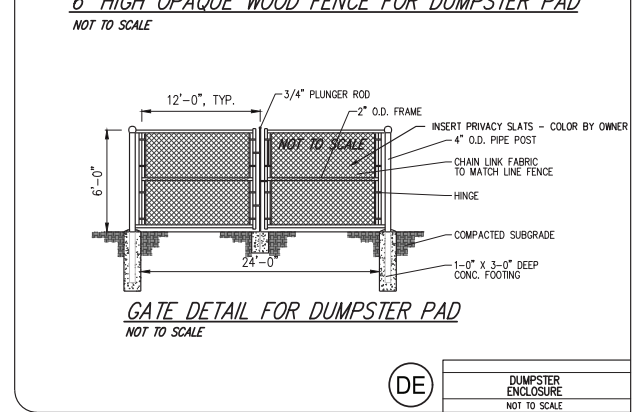
(PP) ASPHALT SURFACE STREET CUT REPAIR
NOT TO SCALE



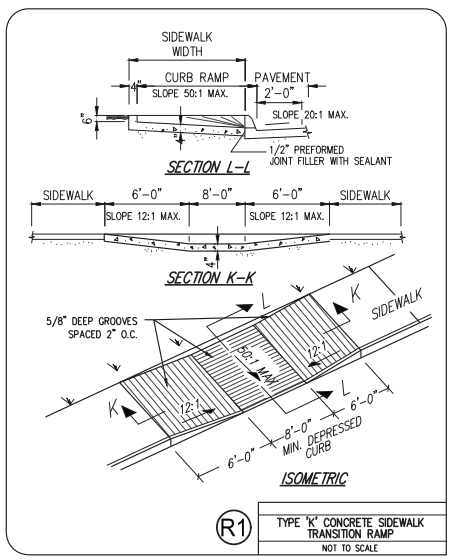
(S) SIGNS DETAIL
NOT TO SCALE



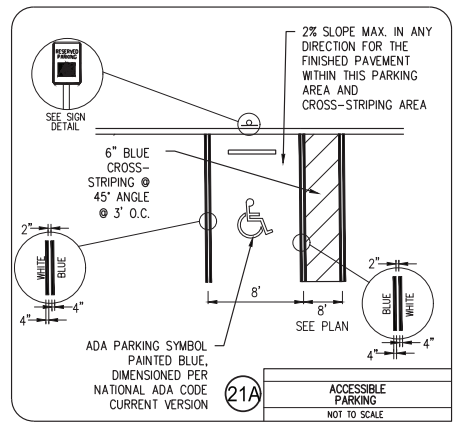
(6) 6" HIGH OPAQUE WOOD FENCE FOR DUMPSTER PAD
NOT TO SCALE



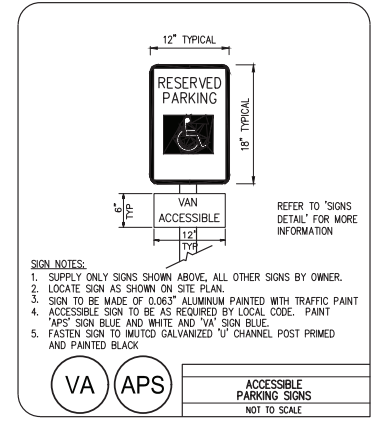
(DE) GATE DETAIL FOR DUMPSTER ENCLOSURE
NOT TO SCALE



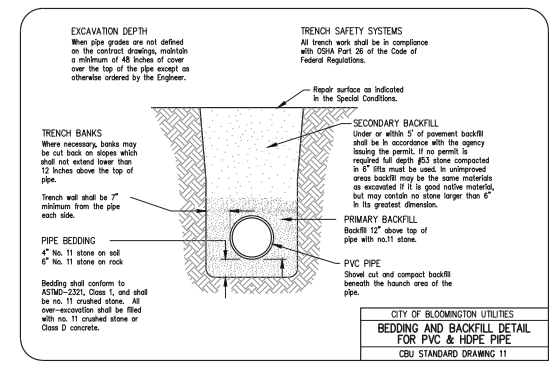
(R1) TYPE "K" CONCRETE SIDEWALK TRANSITION RAMP
NOT TO SCALE



(21A) ACCESSIBLE PARKING
NOT TO SCALE



(VA) **(APS)** ACCESSIBLE PARKING SIGNS
NOT TO SCALE



(C) CITY OF BLOOMINGTON UTILITIES BEDDING AND BACKFILL DETAIL FOR PVC & HDPE PIPE
CBI STANDARD DRAWING 11

revisions:
12.19.2022

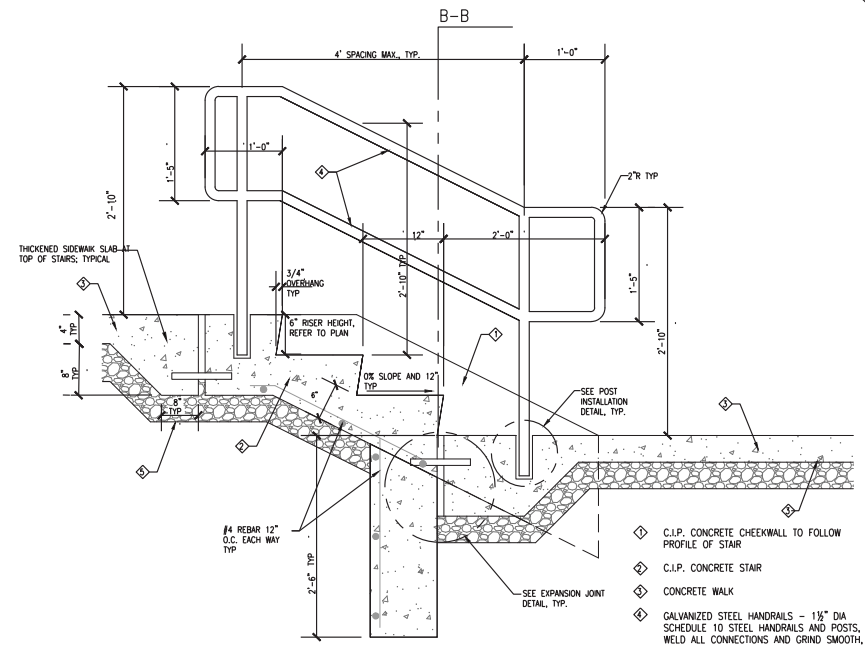
ARCHITECTURE
CIVIL ENGINEERING
PLANNING
BLOOMINGTON, INDIANA
(812) 339-2990 (Fax)

BYNUM FANYO & ASSOCIATES, INC.
528 north walnut street
(812) 332-8030

Professional Engineer
No. 18283
STATE OF INDIANA
12.02.22

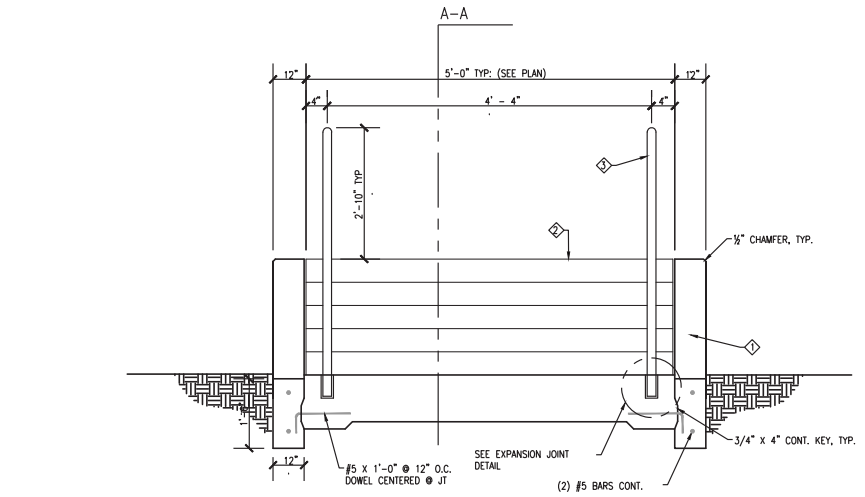
PROPOSED
BLOOMINGTON COOPERATIVE LIVING
410 W. KIRKWOOD AVENUE
BLOOMINGTON, INDIANA 47404

title: SITE & UTILITY DETAILS
designed by: DJB
drawn by: DJB
checked by: JSF
sheet no: C201
project no.: 402240

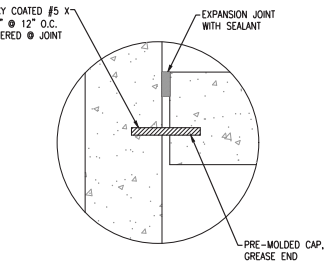


SECTION A-A

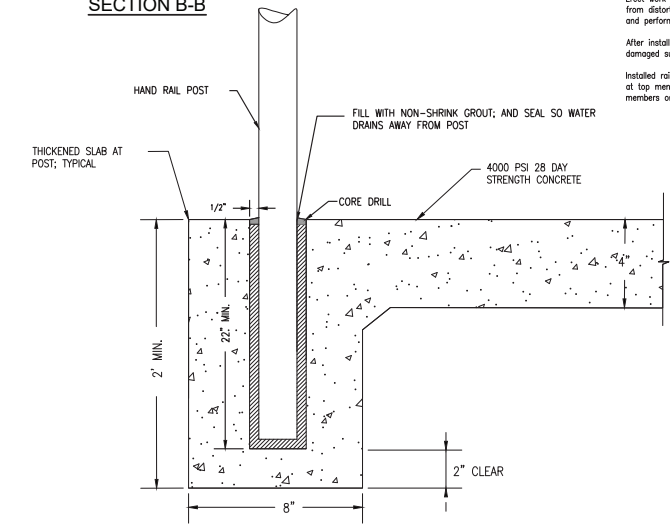
STAIRS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.



SECTION B-B



EXPANSION JOINT DETAIL



POST INSTALLATION DETAIL

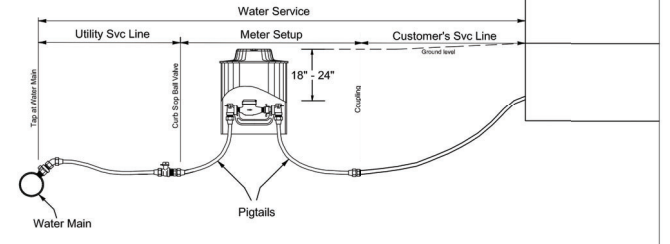
- ◆ C.I.P. CONCRETE CHEEKWALL TO MATCH PROFILE OF STAIRS
- ◆ C.I.P. CONCRETE STAIRS
- ◆ GALVANIZED STEEL HANDRAIL - SEE SECTION A-A (SHOP PRIME AND PAINTED - COLOR BY OWNER OR ARCHITECT)

GENERAL NOTES:

Supply components required for proper anchorage of handrail.
 A. Grout: Core drill & set in concrete.
 B. Expansion Anchors: Type and size to fit application.
 Verify all dimensions and exist. conditions before beginning work.
 Fabricate bends smooth and wrinkle free. "Tip" weld components together. Grind welds smooth and finish to match.
 Fit and shop assembly in largest practical sections for delivery to site and installation. Perform field welding in accordance with AWS D1.1.
 Erect work square, level, accurate to sizes and free from distortion or defects detrimental to appearance and performance.
 After installation, touch up field welds, scratched or damaged surfaces to match specified finish.
 Installed railings to resist lateral forces of 200 lbs. at top member, without permanent set or damage to members or anchors.

City of Bloomington Utilities
 Typical Standard for
 Water System Nomenclature

STANDARD METER FIT DIAMETERS:
 SINGLE 1" YOKE- 24"
 SINGLE 2" YOKE- 30"
 MULTIPLE YOKE- DETERMINED CASE BY CASE



City of Bloomington Utilities Engineering Department
 Drawing File: I:\Common\Standard Drawing\Std10.dwg

WATER SYSTEM NOMENCLATURE

STANDARD
 DETAIL
 NUMBER 10

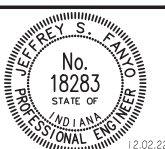
(S1) CONCRETE STAIRS WITH CHEEK WALL DETAILS
 NOT TO SCALE

revisions:
 12.19.2022

ARCHITECTURE
 CIVIL ENGINEERING
 PLANNING

Bloomington, Indiana
 (812) 339-2590 (Fax)

BYNUM FANYO & ASSOCIATES, INC.
 528 north walnut street
 (812) 332-8030



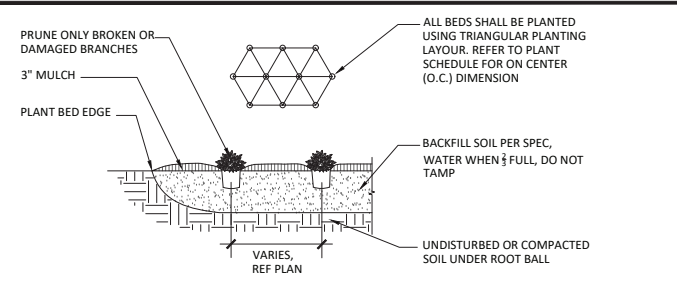
certified by *J. Fanyo*

PROPOSED
 BLOOMINGTON COOPERATIVE LIVING

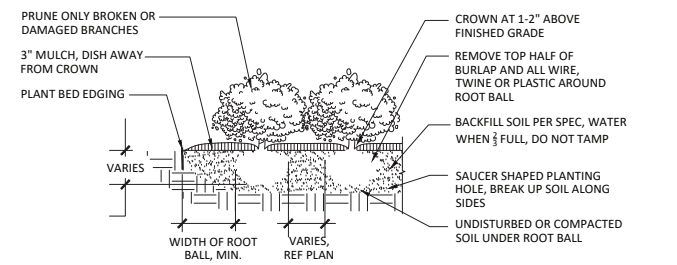
410 W. KIRKWOOD AVENUE
 BLOOMINGTON, INDIANA 47404

title: SITE & UTILITY
 DETAILS CONT'D

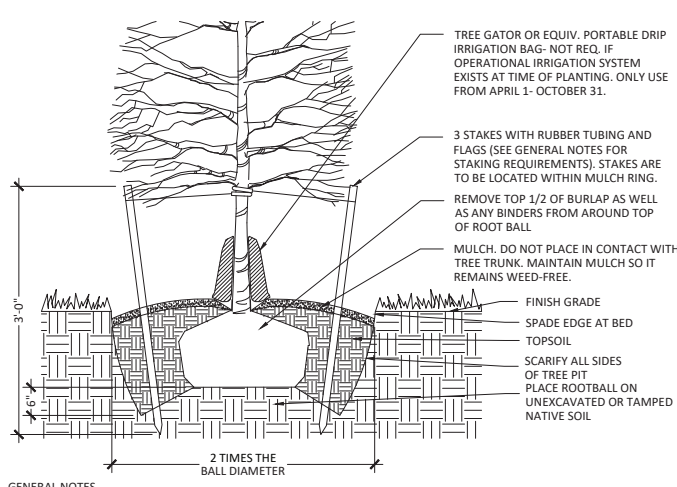
designed by: DJB
 drawn by: DJB
 checked by: JSF
 sheet no: C202
 project no.: 402240



E PERENNIAL PLANTING DETAIL
 SCALE: 1"=1'-0"

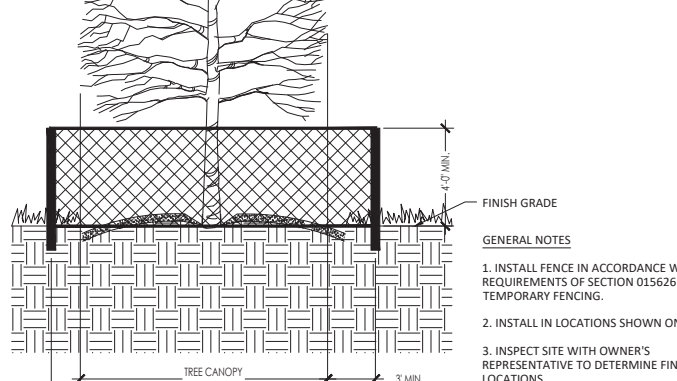


D SHRUB PLANTING DETAIL
 SCALE: 1"=1'-0"



- GENERAL NOTES**
1. STAKE TREES ONLY IF THEY DO NOT REMAIN PLUMB.
 2. DO NOT HEAVILY PRUNE TREES AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
 3. TREES MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL AFTER INSTALLATION, FINISH GRADE OF ROOT BALL SHOULD BE AT OR ABOVE SURROUNDING FINISH GRADE.

C TREE PLANTING DETAIL
 SCALE: 1"=1'-0"

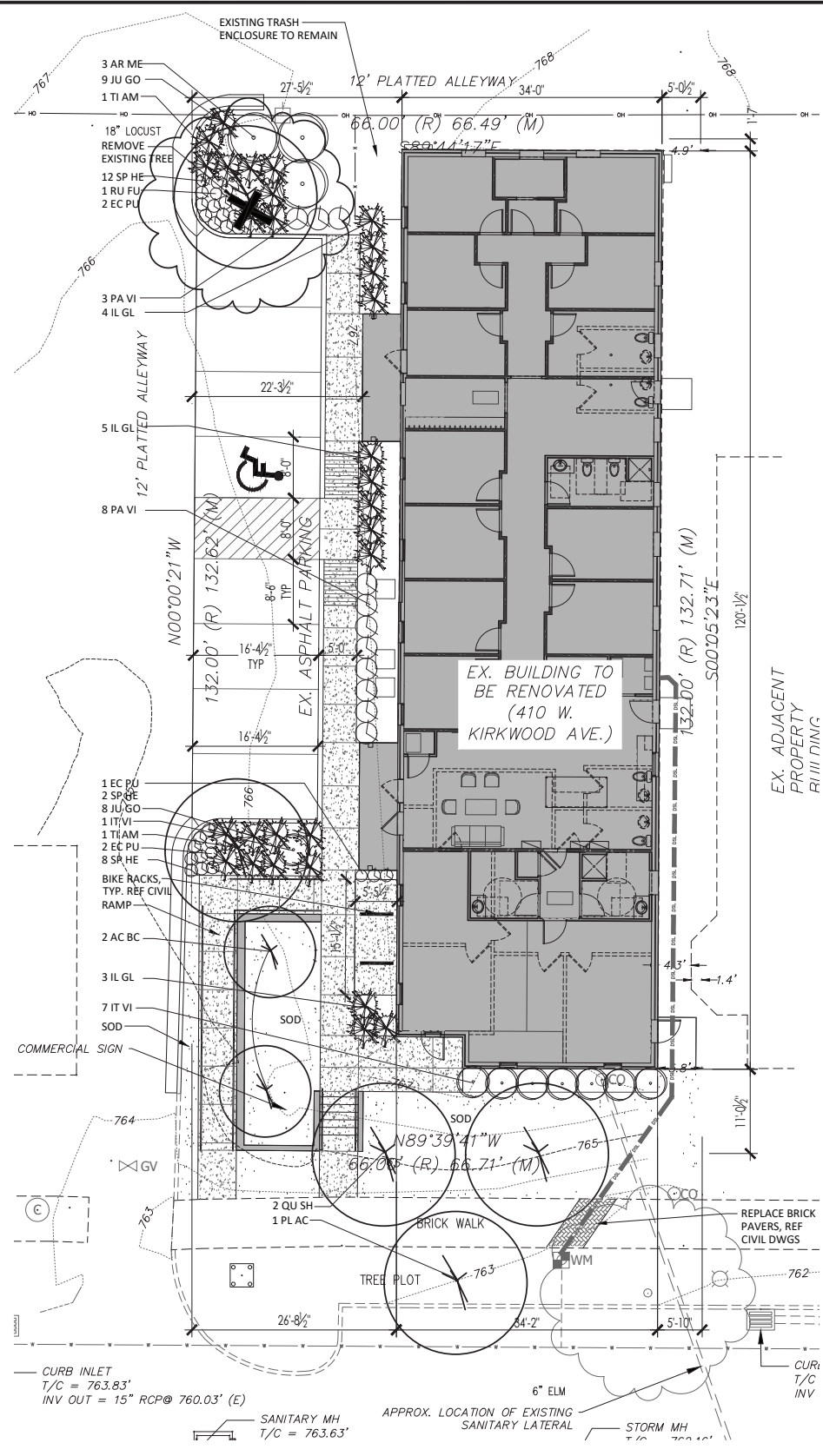


B TREE PROTECTION DETAIL
 SCALE: 1"=1'-0"

OVERALL PLANT LIST

| KEY | BOTANICAL NAME | COMMON NAME | QNTY | SIZE | NOTES |
|--------------------------------------|---------------------------------|---------------------|------|---------|-------|
| DECIDUOUS AND EVERGREEN TREES | | | | | |
| PL AC | Platanus x acerifolia | London Planetree | 1 | 2" cal | |
| QU SH | Quercus shumardii | Sumard Oak | 2 | 2" cal | |
| TI AM | Tilia Americana | Linden | 2 | 6"-8" h | |
| MED/SM TREES | | | | | |
| AC BC | Acer saccharum 'Barrett Cole' | Apollo Maple | 2 | 2" cal | |
| SHRUBS/GRASSES | | | | | |
| IT VI | Itea virginica | Virginia Sweetspire | 8 | 3 gal | |
| AR ME | Aronia melanocarpa | Black Chokeberry | 3 | 3 gal | |
| IL GL | Ilex glabra 'Shamrock' | Dwarf Inkberry | 12 | 3 gal | |
| JU GO | Juniperus virginiana 'Grey Owl' | Grey Owl Juniper | 17 | 3 gal | |
| PERENNIALS/GRASSES | | | | | |
| EC PU | Echinacea purpurea | Purple Coneflower | 5 | 1 gal | |
| PA VI | Panicum virgatum | Switchgrass | 11 | 1 gal | |
| RU FU | Rudbeckia fulgida | Black Eyed Susan | 2 | 1 gal | |
| SP HE | Sporobolus heterolepis | Prairie Dropseed | 21 | 1 gal | |

LAWN: SHALL BE SOD
 1. KENTUCKY BLUEGRASS / FINE FESCUE SOD
 -Nursery sod grown from a seed mixture containing 90-95% by weight of Kentucky bluegrass cultivars and 5-10% by weight of creeping red, chewings, or hard fescue cultivars.



A OVERALL PLANTING PLAN
 SCALE: 1"=10'-0"
 0' 2.5' 5' 10'

GENERAL PLANTING NOTES

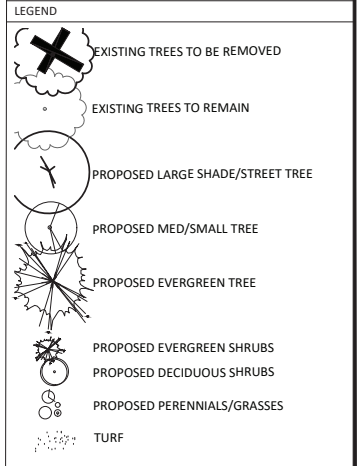
1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CALL 811 FOR UTILITY LOCATES.
2. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS IN FIELD PRIOR TO CONSTRUCTION.
3. DAMAGE OCCURING DURING CONSTRUCTION THAT FALLS BEYOND THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR TO ARCHITECT APPROVAL.
4. EXISTING TREES NOTED ON PLANS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. TREE PROTECTION FENCING SHALL BE LOCATED AT A THREE-FOOT MINIMUM RADIUS SURROUNDING THE DRIPLINE OF THE TREE. NO EQUIPMENT OR SUPPLY STORAGE, EQUIPMENT MOVEMENT, REST OR PICNICKING AREA, OR ANY LAND DISTURBING ACTIVITIES SHALL BE ALLOWED IN THE TREE PROTECTION ZONE.
5. MULCH: PROVIDE 2-3" LAYER OF ORGANIC SHREDDED BARK MULCH THROUGHOUT PLANT BEDS UNLESS OTHERWISE NOTED ON PLAN.
6. EDGING: BED EDGES SHALL BE SPADED UNLESS OTHERWISE NOTED ON PLAN.
7. CONTAINER OR BALL AND BURLAP ARE ACCEPTABLE
8. PLANT MATERIALS SHALL CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WHICH IS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANTS SHALL BE NURSERY GROWN.
9. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING AND LAWN AREAS INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, PRUNING, FERTILIZING, ETC., UNTIL WORK IS ACCEPTED IN FULL BY THE OWNER.
10. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
11. THE OWNER/ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
12. ALL DISTURBED AREAS NOT INCLUDED IN LANDSCAPE MULCH BEDS ARE TO BE DEBRIS-RAKED AND FINED-GRADED AS NEEDED, THEN MULCH SEEDED (OR SODDED, PER PLAN) AND WATERED UNTIL A HEALTHY STAND OF TURF IS ESTABLISHED.
13. ANY PLANT OR OTHER LANDSCAPE MATERIAL SUBSTITUTIONS INSTALLED WITHOUT DESIGNER AND/OR OWNER APPROVAL SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE OWNER/ARCHITECT BEFORE, DURING AND AFTER INSTALLATION.
14. TREES SHALL BE PLANTED TO MAINTAIN A MINIMUM 10' DISTANCE BETWEEN TREE TRUNK AND UTILITY MAINS SUCH AS WATER, SANITARY SEWER, GAS, AND STORM. TREES SHALL ALSO MAINTAIN AN 8' CLEARANCE BETWEEN TREE TRUNK AND STRUCTURES, BUILDING OVERHANGS, WALLS, FENCES, AND OTHER TREES.
15. SOIL IN LANDSCAPE AREAS MUST BE A MINIMUM OF 18" DEPTH OF A MIX APPROPRIATE FOR PLANTING AND DRAINAGE.

MDDE LANDSCAPE REQUIREMENTS
 TOTAL SITE AREA = 8,835.20 SF = .20 AC
 IMP. SURFACING = 6,183.03 SF = .14 AC
 OPEN SPACE = 2,652.17 SF = .06 AC

STREET TREES:
 - SOUTH BOUNDARY: 1 LARGE DEC. TREE PER 40 LF @ 66 LF. = 2 TREES
 - HAVE = 1 EXISTING + 1 PROP. LARGE DEC. TREE

INTERIOR LANDSCAPE:
 - 1 DECIDUOUS TREES PER 500 SF = 6 DEC. TREES
 - HAVE = 6 DEC TREES
 - 8 SHRUBS PER 500 SF = 43 SHRUBS
 - HAVE = 43 SHRUBS, 36 PERENNIALS/GRASSES

PARKING REQUIREMENTS: (8 TOTAL SPACES)
 - PARKING LOT PERIMETER LANDSCAPE:
 - NOT APPLICABLE, DOES NOT FACE OR ABUT PROPERTY BOUNDARY OR R.O.W.
 - LANDSCAPE BUMPOUTS, ISLANDS, ENDCAPS:
 - NOT APPLICABLE, UNDER 12 SPACES



certified

project title

1420 W KIRKWOOD
 BLOOMINGTON, IN
 1420 W KIRKWOOD

project information

PROJECT NUMBER: 22-26
 ISSUE DATE: 08.10.22
 REVISION DATE: 11.11.22
 12.19.2022

sheet title

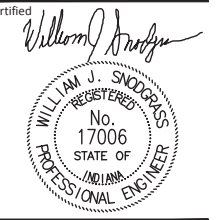
LANDSCAPE PLAN

sheet number

L101



DESIGN-AIRE ENGINEERING, INC.
2707 Reed Road Indianapolis, IN 46241
Voice: 317-464-9390 Fax: 317-464-9393
www.daeengineering.com
Mechanical, Electrical, & Energy Engineering



project title

BLOOMINGTON
COOPERATIVE LIVING

410 W. KIRKWOOD AVE
BLOOMINGTON, IN

project information

PROJECT NUMBER: 22100
ISSUE DATE: 09/23/2022
REVISION DATE: CBU DETAIL RPZ 11/07/2022
PLAN CHANGES 12/19/2022

sheet title

MECHANICAL SCHEDULES

sheet number

M001

| Furnace, DX Coil and Condensing Unit Schedule | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------|------------|--------|-----|---------------------|--------|-----------------|----------|-----|-----------------|---------|---------------------|-----|-------------------|-----------------------------------|-------|-----|--------------|------------------|-----------|-----------|---------|-----|-----|-----------------------|---|
| Furnace | | | | | | | | | | Condensing Unit | | | | | | | | | | | | | | | | |
| GENERAL INFORMATION | | INDOOR FAN | | | HEATING PERFORMANCE | | DX COOLING COIL | | | ELECTRICAL | | GENERAL INFORMATION | | ELECTRICAL | | NOTES | | | | | | | | | | |
| TAG | OA CFM | CFM | E.S.P. | HP | MBH | | MBH | | EDB | EWB | Voltage | FLA | MOP | Approx Weight LBS | Furnace Manufacturer Model Number | | TAG | NOMINAL TONS | AMB. AIR TEMP F. | TOTAL MBH | MIN. SEER | Voltage | MCA | MOP | Approx Weight LBS | Condensing Unit Manufacturer Model Number |
| | | | | | INPUT | OUTPUT | TOTAL | SENSIBLE | | | | | | | | | | | | | | | | | | |
| F-1 | 160 | 1400 | 0.5" | 1.0 | 100.0 | 97.0 | 42.0 | 34.9 | 80 | 67 | 120 | 19.1 | 20 | 261 | CARRIER 53MN7A100V21-20 | CU-1 | 3.5 | 95 | 42.0 | 14.0 | 208/1 | 27.8 | 40 | 363 | CARRIER 24ACB742A0030 | 2,3,4,5 |
| F-2 | 160 | 1400 | 0.5" | 1.0 | 100.0 | 97.0 | 42.0 | 34.9 | 80 | 67 | 120 | 19.1 | 20 | 261 | CARRIER 53MN7A100V21-20 | CU-2 | 3.5 | 95 | 42.0 | 14.0 | 208/1 | 27.8 | 40 | 363 | CARRIER 24ACB742A0030 | 2,3,4,5 |
| F-3 | 160 | 1400 | 0.5" | 1.0 | 100.0 | 97.0 | 42.0 | 34.9 | 80 | 67 | 120 | 19.1 | 20 | 261 | CARRIER 53MN7A100V21-20 | CU-3 | 3.5 | 95 | 42.0 | 14.0 | 208/1 | 27.8 | 40 | 363 | CARRIER 24ACB742A0030 | 1,2,3,4 |

NOTES:
 1 Horizontal condensing type furnace, modulating heating, variable speed motor with matching cased dx coil, filtered return, 3" vertical exterior concentric vent mounting kit.
 2 Condensing Unit to be provided with start assist kit, low ambient controls, crank case heaters, five minutes restart time delay, and service valves.
 3 2-speed scroll compressor, internal pressure relief valve, internal thermal overload, low pressure switch, high pressure switch, filter drier, louvered coil guard,
 4 7-DAY SPECIFIED CONTROL PROGRAMMABLE THERMOSTAT WITH REMOTE SENSORS.
 5 Vertical condensing type furnace, modulating heating, variable speed motor with matching cased dx coil, filtered return, 3" vertical exterior concentric vent mounting kit.

| DUCT INSULATION SCHEDULE | | | |
|---------------------------|---------------------------|-----------------|-----------------|
| SYSTEM | INTERIOR CONCEALED SUPPLY | EXTERIOR SUPPLY | EXTERIOR RETURN |
| FLUID TEMP. RANGE (°F) | 40 & BELOW | 100-300 | 40-75 |
| INSULATION TYPE | MF OR FE | MF OR FE | MF OR FE |
| JACKET TYPE | FP | FP | FP |
| VAPOR BARRIER REQ'D | - | - | - |
| INSULATION THICKNESS (IN) | 1-1/2" | 2" | 2" |

ABBREVIATIONS

| | |
|-------------------------------|-----------------------|
| <u>INSULATION TYPES</u> | <u>JACKET TYPES</u> |
| FE FLEXIBLE ELASTOMERIC | FP FOIL & KRAFT PAPER |
| CG CELLULAR GLASS | PVC CELLULAR GLASS |
| MF MINERAL FIBER (FIBERGLASS) | AL ALUMINUM |
| PO POLYOLEFIN | SS STAINLESS STEEL |
| CS CALCIUM SILICATE | |
| CCF CLOSED-CELL FOAM | |

| GRILLE, REGISTER, DIFFUSER AND LOUVER SCHEDULE | | | | | | | | | |
|--|-------------|-----------|---------------------|-----------|------------|--------------------------|-----------|-------------------------|-------|
| TAG | MAXIMUM CFM | MAX. N.C. | TOTAL PRESSURE DROP | NECK SIZE | DAMPER Y/N | MANUFACTURER / MODEL NO. | FACE SIZE | REMARKS | NOTES |
| A | 90 | 15 | -- | 7"x 4" | Y | Price 620 | 8"x 5" | Supply, Surface Mounted | 1,2 |
| B | 125 | 16 | -- | 8"x 4" | Y | Price 620 | 9"x 5" | Supply, Surface Mounted | 1,2 |
| C | 100 | 20 | -- | 10"x 5" | Y | Price SCD | 12"x 6" | Supply, Duct Mounted | 1,2 |
| D | 385 | 16 | -- | 18"x 6" | Y | Price 620 | 20"x 8" | Supply, Surface Mounted | 1,3 |
| E | 1400 | 24 | -- | 20"x 18" | N | Price 10 | 22"x 20" | Return, Surface Mounted | 1,4 |
| F | 125 | 16 | -- | 10"x 5" | Y | Price 635 | 12"x 7" | Return, Surface Mounted | 1,2 |
| G | 360 | 21 | -- | 14"x 10" | Y | Price 635 | 16"x 12" | Return, Surface Mounted | 1,2 |

A. Maximum N.C. values are based on Octave Band 1 through 8 sound power levels minus a room absorption of 10dB, re 10 to the -12 Watts.
 B. Verify border requirements with all applicable architectural sheets, reflected ceiling plans, and room finish schedules.
 C. Provide square to round transitions, by Manufacturer, as required. Also see Plans.

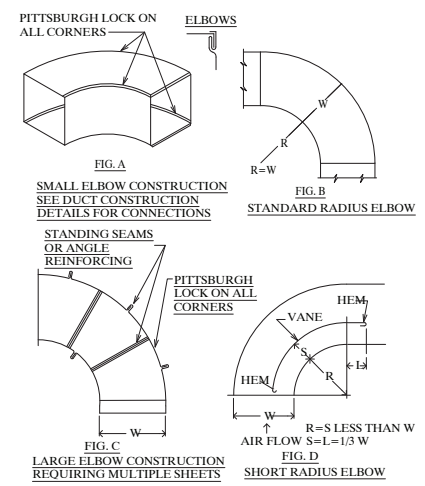
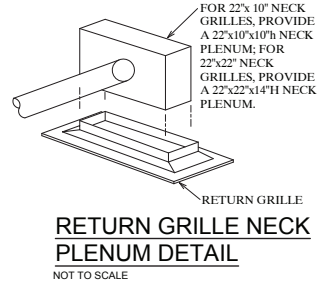
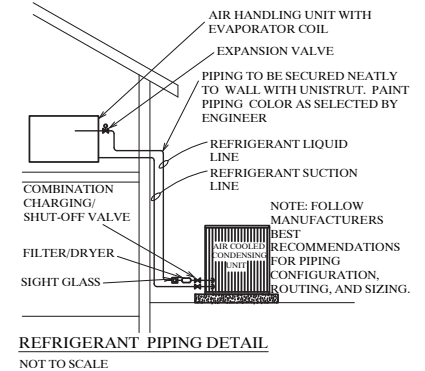
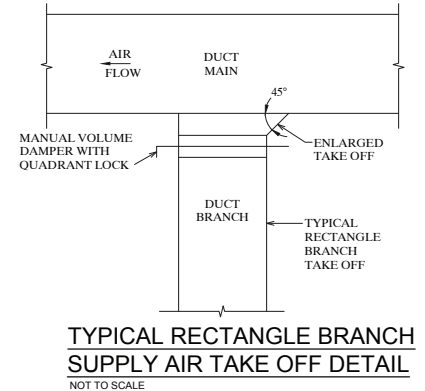
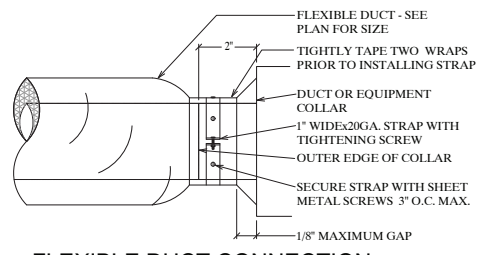
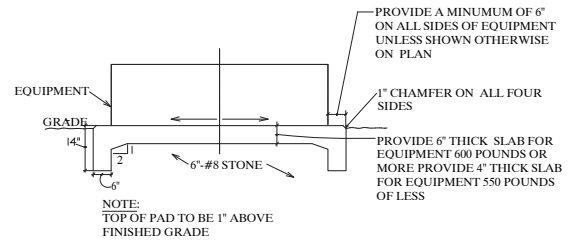
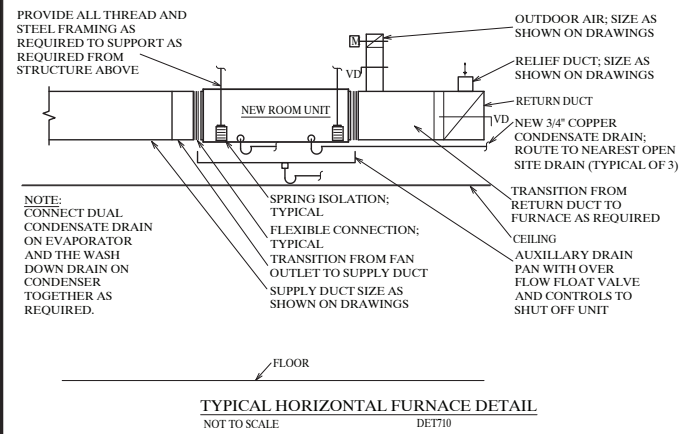
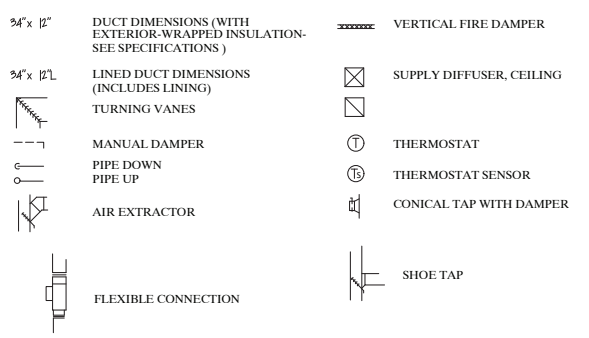
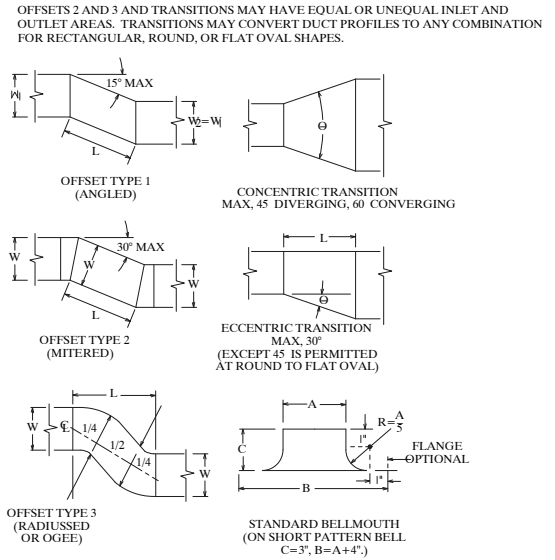
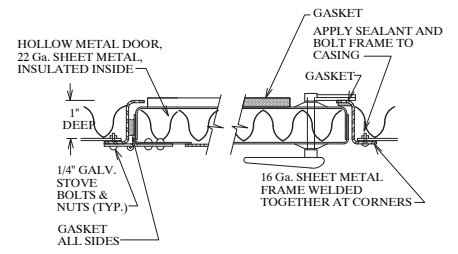
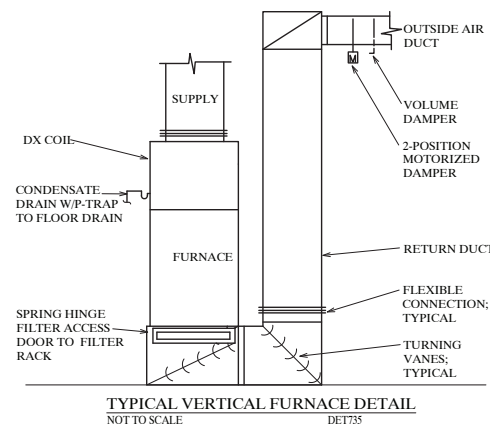
NOTES:
 1 Provide baked enamel finish, Color as selected by Architect.
 2 Aluminum register with horizontal face louvers.
 3 Extruded aluminum register curved for duct mounting.
 4 Perforated face return grille.

| EXHAUST FAN SCHEDULE | | | | | | | | | | | | | | |
|----------------------|-----|---------------|--------------|-----------|-----|-------|-----------------|---------|-----|--------------------|-------------------------------|--------------|----------|-------|
| FAN DATA | | | | | | | ELECTRICAL DATA | | | | GENERAL INFORMATION | | | |
| TAG | CFM | LOW SPEED CFM | ESP IN. W.C. | TIP SPEED | RPM | SONES | AMPS | VOLTAGE | BHP | CONTROLLED BY | MANUFACTURER AND MODEL NUMBER | FAN TYPE | LOCATION | NOTES |
| EF-1 | 100 | 40 | 0.35" | --- | 970 | 0.9 | 0.29 | 120/1 | --- | BATHROOM LIGHTS | PANASONIC FV-0510VSC1 | Direct Drive | Ceiling | ALL |
| EF-2 | 100 | 40 | 0.35" | --- | 970 | 0.9 | 0.29 | 120/1 | --- | BATHROOM LIGHTS | PANASONIC FV-0510VSC1 | Direct Drive | Ceiling | ALL |
| EF-3 | 75 | 40 | 0.35" | --- | 856 | 0.4 | 0.13 | 120/1 | --- | BATHROOM LIGHTS | PANASONIC FV-0510VSC1 | Direct Drive | Ceiling | ALL |
| EF-4 | 75 | 30 | 0.35" | --- | 856 | 0.4 | 0.13 | 120/1 | --- | JAN. CLOSET LIGHTS | PANASONIC FV-0510VSC1 | Direct Drive | Ceiling | ALL |
| EF-5 | 75 | 40 | 0.35" | --- | 856 | 0.4 | 0.13 | 120/1 | --- | BATHROOM LIGHTS | PANASONIC FV-0510VSC1 | Direct Drive | Ceiling | ALL |
| EF-6 | 100 | 40 | 0.35" | --- | 970 | 0.9 | 0.29 | 120/1 | --- | BATHROOM LIGHTS | PANASONIC FV-0510VSC1 | Direct Drive | Ceiling | ALL |

Notes:
 1 Unit mounted disconnect, speed controller, backdraft damper, wall cap or roof cap.

GENERAL NOTES:

- A. EVERYTHING SHOWN IS NEW UNLESS OTHERWISE NOTED.
- B. FOR GENERAL DUCT CONSTRUCTION SEE DETAILS.
- C. ALL WORK SHALL BE IN ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE, AND SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS.
- D. THE CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT, AND SHALL EXAMINE THE SCOPE OF WORK OF OTHER TRADES PRIOR TO SUBMITTING A BID PROPOSAL.
- E. CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. ANY OFFSETS, ADDITIONAL FITTINGS, AND/OR APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM SHALL BE BORNE BY THE CONTRACTOR.
- F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED MATERIALS INCLUDING ALL DIFFUSERS, GRILLES, AND REGISTERS. THE H.C. SHALL COORDINATE DUCTWORK INSTALLATIONS WITH OTHER TRADES. LIGHTING AND DUCTWORK DESIGNS INDICATED ON CONTRACT DRAWINGS WERE COORDINATED, HOWEVER CONFLICTS WITH DUCTWORK AND LIGHTS MAY ARISE DUE TO GRID INSTALLATION. H.C. SHALL BE RESPONSIBLE FOR ALL DUCTWORK MODIFICATIONS AND OFFSETS REQUIRED TO AVOID FIELD CONDITIONS.
- G. BALANCE DAMPERS SHALL BE LOCATED AT BRANCH CONNECTION TO THE MAIN.
- H. FLEXIBLE DUCTWORK IS LIMITED TO A MAXIMUM LENGTH OF 3 FEET, WITH NO DIPS, SAGS, OR TIGHT ELBOWS, AND ON SUPPLY DUCTWORK ONLY. FLEXIBLE DUCTWORK SHALL BE AN INSULATED, SEMI-RIGID AND LIGHT WEIGHT AIR DUCT, MANUFACTURED BY USING DEAD SOFT ALUMINUM STRIP WHICH IS SPIRALLY WOUND AND MECHANICALLY JOINED TOGETHER FORMING AN AIR TIGHT LEAK PROOF TRIPLE LOCK SEAM. DUCT TO BE SELF-SUPPORTING AND CORROSIVE RESISTANT UL-181 CLASS I PRODUCT, WITH A POLYETHYLENE VAPOR BARRIER. FLEXIBLE DUCTWORK TO BE LIKE MASTERFIT UPC-018 (ACOUSTICAL) OR AN APPROVED EQUAL.
- I. LABEL ALL THERMOSTAT, SENSOR, ETC. AS TO WHAT THE DEVICE CONTROLS WITH AN ENLARGED, PLASTIC LABEL, MOUNTED UNDER OR ON THE DEVICE.
- J. PROVIDE NECK PLENUMS ON RETURN AND EXHAUST GRILLES AS REQUIRED. SEE DETAILS.
- K. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS. SEE DETAILS.
- L. ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO DUCTWORK, PIPING, UNIT HEATERS, ETC. SHALL BE HUNG FROM THE TOP CHORD OF THE STRUCTURAL STEEL.
- M. ALL EXTERIOR PENETRATIONS SHALL BE WEATHER AND WATER TIGHT.
- N. PROVIDE DUCT CLEANOUTS AS REQUIRED.
- O. REFRIGERANT PIPE SIZING AND CONFIGURATION BY UNIT MANUFACTURER.
- P. HVAC CONTRACTOR SHALL COORDINATE DUCT, DIFFUSERS, REGISTERS AND GRILLES WITH LIGHT FIXTURE LOCATIONS.
- Q. CONTRACTORS ARE TO REVIEW STRUCTURAL PLANS AND ACTUAL LAYOUT OF BEAMS, JOISTS, ETC. TO AVOID CONFLICT BETWEEN DUCT. ADJUST DUCT ROUTING TO ACCEPT STRUCTURAL CONDITIONS.
- R. ALL EXHAUST DISCHARGES AND GAS FLUES WHERE INDICATED SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AND COMBUSTION AIR INTAKES UNLESS LOCAL AND STATE CODES MANDATE ADDITIONAL DISTANCE.
- S. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO PLACING EQUIPMENT ON ORDER.
- T. WHERE WALL TYPE LOUVERS ARE INDICATED, MECHANICAL CONTRACTOR SHALL SEAL WATER-TIGHT ALL AROUND LOUVER WITH SILICON CAULKING. CONTRACTOR SHALL COORDINATE PAINTING REQUIREMENTS FOR LOUVERS WITH GENERAL CONTRACTOR PRIOR TO SUBMITTING BID.



METAL DUCTS

1.1 SHEET METAL MATERIALS

- A. GALVANIZED STEEL SHEETS: COMPLY WITH ASTM A653/A 653M, G60 (Z180) AND A MILL PHOSPHATIZED FINISH FOR SURFACES EXPOSED TO VIEW.
- B. REINFORCEMENT SHAPES AND PLATES SHALL BE GALVANIZED STEEL. DISSIMILAR MATERIALS SHALL BE SEPARATED USING APPROPRIATE GASKET MATERIALS.
- C. GALVANIZED STEEL TIE RODS THAT ARE 1/4-INCH MINIMUM DIAMETER FOR LENGTHS 36 INCHES OR LESS AND 3/8-INCH DIAMETER FOR LONGER LENGTHS LONGER.
- D. CARBON STEEL SHEETS: COMPLY WITH ASTM A1008 10080M, WITH OILED, MATTE FINISH FOR EXPOSED DUCTS.

1.2 DUCT LINER

- A. TYPE I FLEXIBLE LINER SHALL HAVE A MAXIMUM THERMAL CONDUCTIVITY OF 0.27 BTU X IN./H X SQ. FT. X DEG F AT 75 DEG F MEAN TEMPERATURE.
- B. TYPE II RIGID LINER SHALL HAVE A MAXIMUM THERMAL CONDUCTIVITY OF 0.23 BTU X IN./H X SQ. FT. X DEG F AT 75 DEG F MEAN TEMPERATURE.
- C. ANTIMICROBIAL EROSION-RESISTANT COATING TESTED AND REGISTERED FOR USE IN HVAC SYSTEMS.
- D. WATER-BASED LINER ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B AND WITH ASTM C 916.
- E. INSULATION PINS AND WASHERS:
 - 1. CUPPED-HEAD CAPACITOR-DISCHARGE-WELD PINS SHALL BE COPPER- OR ZINC-COATED STEEL PIN, FULLY ANNEALED FOR CAPACITOR-DISCHARGE WELDING, 0.106-INCH DIAMETER SHANK, LENGTH TO SUIT DEPTH OF INSULATION LINED WITH INTEGRAL 1-1/2-INCH GALVANIZED CARBON-STEEL WASHER.
 - 2. INSULATION-RETAINING WASHERS SHALL BE SELF-LOCKING WASHERS FORMED FROM 0.016-INCH THICK GALVANIZED STEEL, WITH BEVELLED EDGE SIZED AS REQUIRED TO HOLD INSULATION SECURELY IN PLACE BUT NOT LESS THAN IN DIAMETER.
- F. SHOP APPLICATION OF DUCT LINER IS PERMITTED.

1.3 SEALANT AND GASKETS

- A. WATER-BASED JOINT AND SEAM SEALANT SHALL BE BRUSHED ON WITH A MINIMUM SOLIDS CONTENT OF 65%, A MINIMUM SHORE A HARDNESS OF 20, WATER MOLD AND MILDEW RESISTANT AND A MAXIMUM VOC OF 75 G/L. MUST BE RATED FOR UP TO 10" WG AND FOR INDOOR AND OUTDOOR SERVICE. SHALL BE COMPATIBLE WITH METAL SUBSTRATE.
- B. FLANGED JOINT SEALANT SHALL BE A SINGLE-COMPONENT, ACID-CURING, SILICONE ELASTOMERIC, TYPE S, GRADE NS, CLASS 25 AND O USE.
- C. FLANGE GASKETS SHALL BE BUTYL RUBBER, NEOPRENE, OR EPDM POLYMER WITH POLYISOBUTYLENE PLASTICIZER.

1.4 HANGERS AND SUPPORTS

- A. HANGER RODS SHALL BE CADMIUM-PLATED STEEL RODS AND NUTS.
- B. STEEL CABLES FOR GALVANIZED-STEEL DUCTS.
- C. STEEL CABLE END CONNECTIONS SHALL BE CADMIUM-PLATED STEEL ASSEMBLIES WITH BRACKETS, SWIVEL, AND BOLTS DESIGNED FOR DUCT HANGER SERVICE, WITH AN AUTOMATIC-LOCKING AND CLAMPING DEVICE.
- D. SHEET METAL SCREWS, BLIND RIVETS, OR SELF-TAPPING METAL SCREWS SHALL BE COMPATIBLE WITH DUCT MATERIALS.
- E. SUPPORT GALVANIZED-STEEL DUCTS WITH GALVANIZED-STEEL SHAPES AND PLATES.

1.5 DUCT INSTALLATION

- A. PROTECT ALL MATERIALS, INSTALLED AND STORED, FROM DAMAGE.
- B. COVER OPENINGS BETWEEN NON-FIRE RATED INTERIOR PARTITIONS AND DUCT (OR DUCT INSULATION) WITH SHEET METAL OVERLAPPING ON FOUR SIDES BY A MINIMUM OF 1".
- C. TRIM DUCT SEALANTS FLUSH WITH METAL. CREATE A SMOOTH AND UNIFORM EXPOSED BEAD.
- D. REPAIR OR REPLACE DAMAGED SECTIONS AND FINISHED WORK THAT DOES NOT COMPLY WITH THESE REQUIREMENTS.
- E. HANGERS AND SUPPORTS SHALL USE STRUCTURAL-STEEL FASTENERS APPROPRIATE FOR CONSTRUCTION MATERIALS TO WHICH HANGERS ARE BEING ATTACHED.
- F. HANGERS EXPOSED TO VIEW SHALL BE THREADED ROD AND ANGLE OR CHANNEL SUPPORTS.
- G. INSTALL UPPER ATTACHMENTS TO STRUCTURES. SELECT AND SIZE UPPER ATTACHMENTS WITH PULL-OUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
- H. PAINT INTERIOR OF METAL DUCTS THAT ARE VISIBLE THROUGH REGISTERS AND GRILLES AND THAT DO NOT HAVE DUCT LINER. APPLY ONE COAT OF FLAT, BLACK, LATEX PAINT OVER A COMPATIBLE GALVANIZED-STEEL PRIMER.
- I. PERFORM TESTS AND INSPECTIONS. DUCT SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
- J. CLEAN EXISTING DUCT SYSTEMS BEFORE TESTING, ADJUSTING, AND BALANCING.

1.6 DUCT SCHEDULE

- A. INTERMEDIATE REINFORCEMENT SHALL BE GALVANIZED STEEL.

DUCT ACCESSORIES

1.1 MATERIALS

- A. REINFORCEMENT SHAPES AND PLATES SHALL MATCH OR BE COMPATIBLE WITH SHEET METAL DUCT MATERIAL.
- B. TIE RODS SHALL BE STAINLESS STEEL, 1/4-INCH MINIMUM DIAMETER FOR LENGTHS 36 INCHES OR LESS; 3/8-INCH MINIMUM DIAMETER FOR LENGTHS LONGER THAN 36 INCHES.

1.2 MANUAL VOLUME DAMPERS

- A. ALL STAINLESS STEEL DAMPER WITH STANDARD LEAKAGE RATING AND LINKAGE OUTSIDE OF AIRSTREAM. USE A HAT-SHAPED FRAME WITH STAINLESS STEEL CHANNELS, MITERED AND WELDED CORNERS, FLANGELESS FRAMES FOR INSTALLATION IN DUCTS, STAINLESS STIFFEN DAMPER BLADES AND OIL IMPREGNATED BRONZE BEARINGS.

1.3 FLANGE CONNECTORS

- A. GALVANIZED STEEL MATCHING CONNECTING DUCTWORK IN GAGE AND SHAPE. IT SHALL BE AN ADD-ON, FACTORY-FABRICATED DEVICE WITH SLIDE-ON TRANSVERSE FLANGE CONNECTORS, GASKETS, AND COMPONENTS.

1.4 TURNING VANES

- A. MANUFACTURED STAINLESS STEEL TURNING VANES WITH CURVED BLADES AND SUPPORTED WITH BARS PERPENDICULAR TO BLADES SET. INSTALL SINGLE WALL VANES FOR DUCTS UP TO 48" WIDE AND DOUBLE WALL FOR LARGER DUCTS.

1.5 DUCT-MOUNTED ACCESS DOORS

- A. STAINLESS STEEL DOUBLE WALL RECTANGULAR DOOR WITH INSULATION PER DUCT PRESSURE CLASS AND 1"X1" BUTT OR PIANO HINGES AND CAM LATCHES. NUMBER OF HINGES SHALL BE APPROPRIATE TO DOOR SIZE. FRAME SHALL BE GALVANIZED WITH BED OVER TABS AND FOAM GASKETS.

1.6 FLEXIBLE CONNECTORS

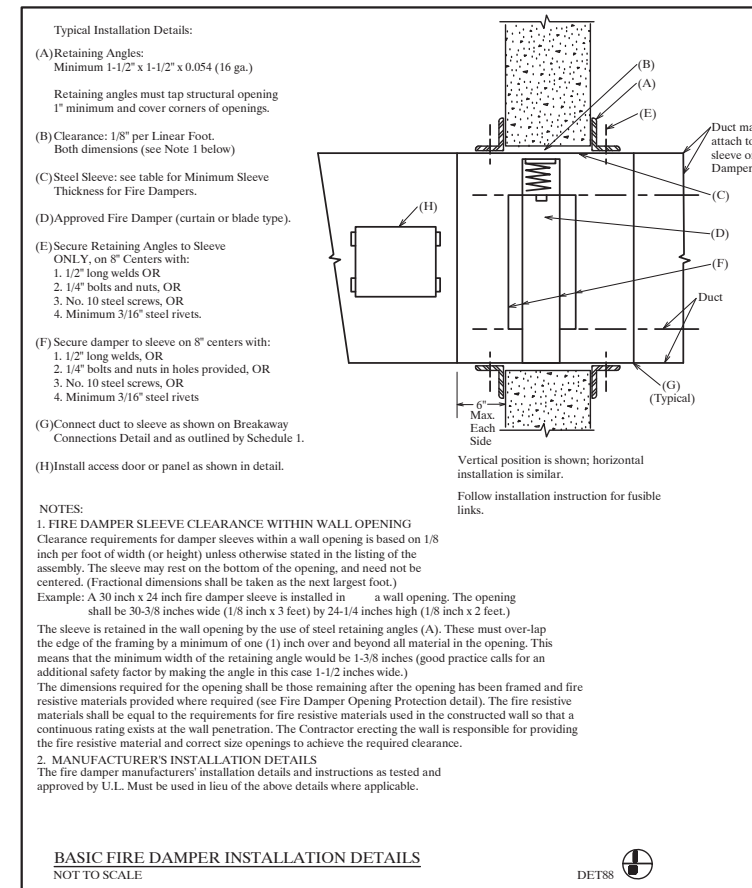
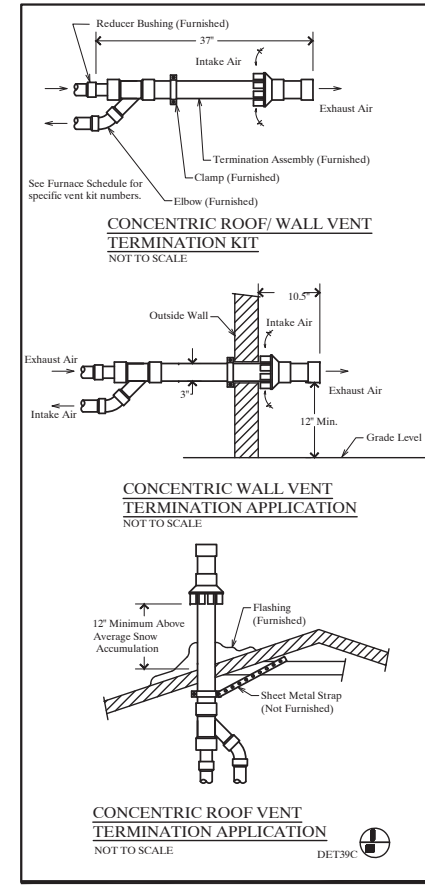
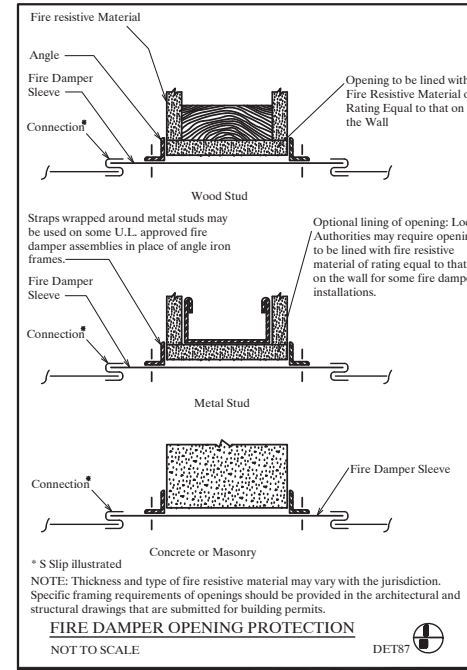
- A. FLEXIBLE CONNECTORS SHALL BE MADE OF FLAME-RETARDANT OR NONCOMBUSTIBLE FABRICS.
- B. INDOOR SYSTEM FLEXIBLE CONNECTOR SHALL BE GLASS FABRIC DOUBLE COATED WITH NEOPRENE. MINIMUM WEIGHT SHALL BE 26 OZ./SQ. YD WITH A TENSILE STRENGTH OF 480 LBF/INCH IN THE WRAP AND 360 LBF/INCH IN THE FILLING AT -40°F TO 200°F.
- C. OUTDOOR SYSTEM FLEXIBLE CONNECTOR SHALL BE GLASS FABRIC DOUBLE COATED WITH PROOF, SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OZONE. MINIMUM WEIGHT SHALL BE 24 OZ./SQ. YD WITH A TENSILE STRENGTH OF 500 LBF/INCH IN THE WRAP AND 440 LBF/INCH IN THE FILLING AT -50°F TO 250°F.

1.7 FLEXIBLE DUCTS

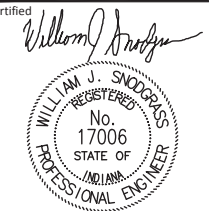
- A. NONINSULATED FLEXIBLE DUCT SHALL BE BLACK POLYMER FILM SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE WITH A PRESSURE RATING OF 4" WG TO -0.5" WG AT A MAXIMUM AIR VELOCITY OF 4000 FPM AND A TEMPERATURE RANGE OF -20°F TO 175°F.
- B. INSULATED, FLEXIBLE DUCT SHALL BE BLACK POLYMER FILM SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE, FIBROUS-GLASS INSULATION WITH ALUMINIZED VAPOR-BARRIER FILM. PRESSURE RATING SHALL BE 4" WG TO -0.5" WG AT A MAXIMUM AIR VELOCITY OF 4000 FPM AND A TEMPERATURE RANGE OF -20°F TO 175°F.
- C. STAINLESS STEEL CLAMPS WITH CADMIUM-PLATED HEX SCREW TO TIGHTEN BAND WITH A WORM GEAR ACTION IN SIZES 3 THROUGH 18.
- D. ADHESIVE PLUS SHEET METAL SCREWS FOR NON-CLAMP CONNECTORS.

1.8 INSTALLATION

- A. INSTALL DUCT ACCESSORIES OF MATERIALS THAT ARE COMPATIBLE WITH DUCT MATERIALS.
- B. INSTALL VOLUME DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE INDICATED ON DRAWINGS. WHERE DAMPERS ARE INSTALLED IN DUCTS HAVING DUCT LINER, INSTALL DAMPERS WITH HAT CHANNELS OF SAME DEPTH AS LINER, AND TERMINATE LINER WITH NOSING AT HAT CHANNEL.
- C. SET DAMPERS TO FULLY OPEN POSITION BEFORE TESTING, ADJUSTING, AND BALANCING.
- D. INSTALL DUCT ACCESS DOORS ON SIDES OF DUCTS TO ALLOW FOR PROPER USE AT THE FOLLOWING LOCATIONS:
 - 1. DOWNSTREAM FROM DAMPERS AND EQUIPMENT.
 - 2. ADJACENT TO AND CLOSE ENOUGH TO FIRE OR SMOKE DAMPERS, TO RESET OR REINSTALL FUSIBLE LINKS. ACCESS DOORS FOR ACCESS TO FIRE OR SMOKE DAMPERS HAVING FUSIBLE LINKS SHALL BE PRESSURE RELIEF ACCESS DOORS AND SHALL BE OUTWARD OPERATION FOR ACCESS DOORS INSTALLED UPSTREAM FROM DAMPERS AND INWARD OPERATION FOR ACCESS DOORS INSTALLED DOWNSTREAM FROM DAMPERS.
 - 3. CONTROL DEVICES REQUIRING INSPECTION.
 - 4. ELSEWHERE AS INDICATED.
- E. INSTALL ACCESS DOORS WITH SWING AGAINST DUCT STATIC PRESSURE.
- F. ACCESS DOOR SIZES:
 - 1. ONE-HAND OR INSPECTION ACCESS: 8 BY 5 INCHES.
 - 2. TWO-HAND ACCESS: 12 BY 6 INCHES.
 - 3. HEAD AND HAND ACCESS: 18 BY 10 INCHES.
 - 4. HEAD AND SHOULDERS ACCESS: 21 BY 14 INCHES.
 - 5. BODY ACCESS: 25 BY 14 INCHES.
- G. INSTALL FLEXIBLE CONNECTORS TO CONNECT DUCTS TO EQUIPMENT.
- H. CONNECT DIFFUSERS OR LIGHT TROFFER BOOTS TO DUCTS WITH MAXIMUM 60-INCH LENGTHS OF FLEXIBLE DUCT CLAMPED OR STRAPPED IN PLACE.
- I. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH ADHESIVE PLUS SHEET METAL SCREWS.
- J. FULLY TEST AND OPERATE ALL DAMPERS TO VERIFY FULL RANGE OF MOVEMENT.
- K. INSPECT ALL EQUIPMENT AND ACCESSORIES FOR PROPER INSTALLATION.



certified



project title

BLOOMINGTON COOPERATIVE LIVING

410 W. KIRKWOOD AVE
BLOOMINGTON, IN

project information

PROJECT NUMBER: 22100
ISSUE DATE: 09/23/2022
REVISION DATE: CBU DETAIL RPZ 11/07/2022
PLAN CHANGES 12/19/2022

sheet title

FLOOR PLAN - MECHANICAL

sheet number

M200

HVAC SEQUENCE OF OPERATION:

UNITS F-1/CU-1, F-2/CU-2 & F-3/CU-3:

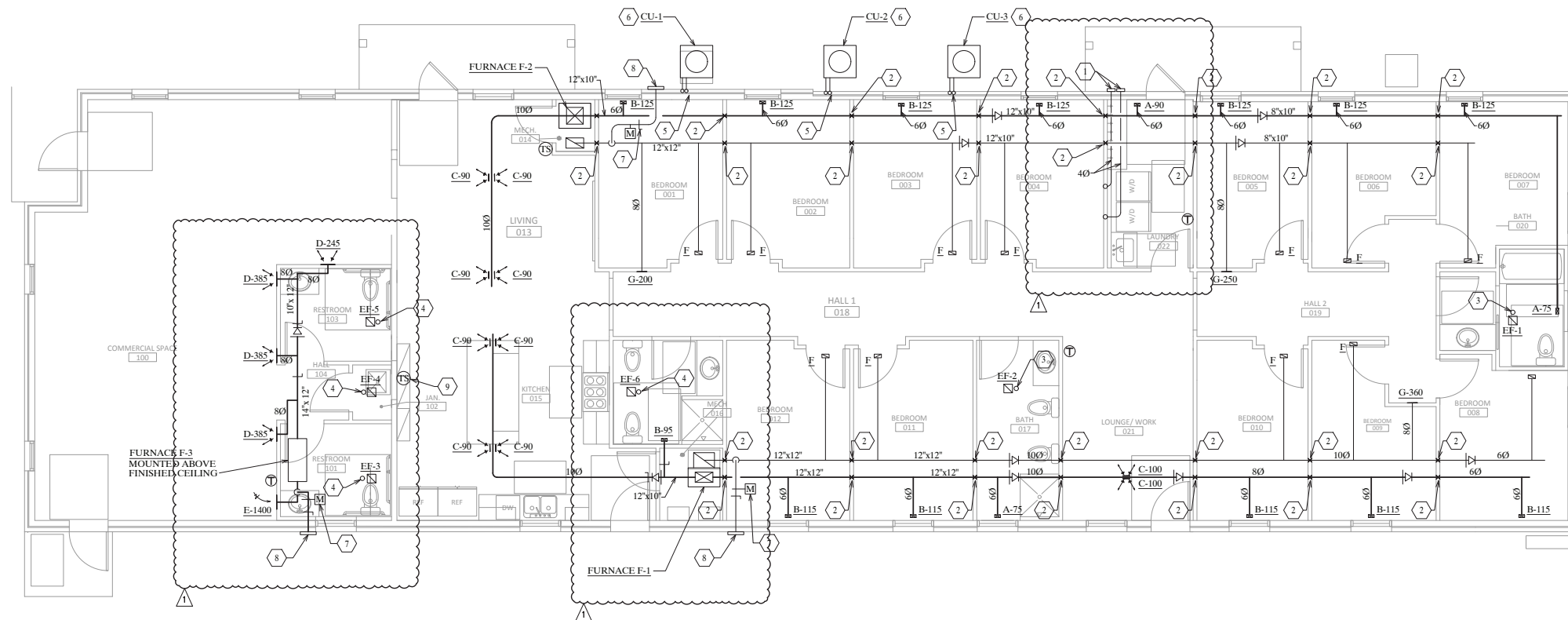
1. ALL UNITS SHALL BE CONTROLLED BY A 24HR/365 DAY PROGRAMMABLE THERMOSTAT WITH WIFI ACCESS FOR REMOTE APP CONTROL. F-1 & F-2 SHALL HAVE THERMOSTATS WITH ONE REMOTE SENSOR FOR TEMPERATURE AVERAGING.
2. OUTSIDE AIR: UPON FAN MOTOR STARTING, THE 2-POSITION MOTORIZED OUTSIDE AIR DAMPER SHALL FULLY OPEN. THE MANUAL VOLUME DAMPER SHALL BE SET TO DELIVER THE CORRECT AMOUNT OF OUTSIDE AIR AS INDICATED ON THE DRAWINGS. UPON FAN MOTOR STOPPING, THE TWO 2-POSITION MOTORIZED DAMPER SHALL FULLY SHUT.
3. FAN OPERATION: SYSTEM/FANS SHALL BE SET TO AUTO.
4. COOLING MODE: UPON A TEMPERATURE RISE, DX COOLING SHALL START OPERATE ON ITS OWN CONTROLS TO SATISFY THERMOSTAT/SENSORS.
5. HEATING MODE: UPON A TEMPERATURE DROP PAST HEATING SETPOINT, FURNACE SHALL OPERATE ON ITS OWN CONTROLS TO SATISFY THERMOSTAT/SENSORS.

GENERAL NOTES:

PROVIDE REGISTER BOOTS/PLENUMS ON EACH GRILLE/REGISTERED AS REQUIRED.

PLAN NOTES:

1. DRY CAP HOOD ON WALL.
2. FIRE DAMPER AT WALL PENETRATION. PROVIDE DUCT ACCESS PANEL IN DUCTWORK AS REQUIRED.
3. 60 UP TO ROOF JACKHOOD. INSTALL FIRE DAMPER AT CEILING PENETRATION.
4. 60 UP TO ROOF JACKHOOD.
5. PIPE REFRIGERANT PIPING BEST ROUTE TO COOLING COILS AS REQUIRED.
6. PROVIDE A MINIMUM OF 18" ON ALL SIDES OF CONDENSING UNITS.
7. MANUAL VOLUME DAMPER AND 2 POSITION MOTORIZED DAMPER TO OPEN WHEN FAN IS ON AND CLOSE WHEN FAN IS OFF.
8. OUTSIDE AIR INTAKE HOOD/LOUVER.
9. TEMPERATURE SENSOR, CONNECTED TO MAIN THERMOSTAT; TYPICAL.



FLOOR PLAN - MECHANICAL
SCALE: 3/16" = 1'-0"

GENERAL NOTES

- SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
- COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- COORDINATE LOCATION OF PLUMBING SYSTEMS TO AVOID INTERFERENCE WITH LOCATION OF STRUCTURE AND OTHER BUILDING SYSTEMS. NOTIFY OWNER PRIOR TO CONSTRUCTION OF CONFLICTS, WHICH CANNOT BE RESOLVED.
- ALL WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST QUALITY IN EVERY RESPECT. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE LATEST DESIGN, AND FREE OF DEFECTS. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST AMENDED EDITION OF ALL APPLICABLE STANDARDS, INCLUDING BUT NOT LIMITED TO, SMACNA, UL, AND NEMA STANDARDS.
- OBTAIN ALL EQUIPMENT OF THE SAME TYPE FROM THE SAME MANUFACTURER.
- WATER QUALITY TESTING IS REQUIRED.
- DISRUPTIONS TO EXISTING SERVICES MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER AND THE OWNER NO LESS THAN 10 BUSINESS DAYS IN ADVANCE.
- INSTALL DIELECTRIC FITTINGS AS REQUIRED
- SEE OTHER SECTIONS FOR DETAILS ON EXCAVATION REQUIREMENTS.
- DRAWINGS ARE ONLY SCHEMATIC AND DIAGRAMATIC IN NATURE. INSTALL PIPING AS GENERALLY INDICATED.
- INSTALL VALVES AT ALL LOW POINT IN SYSTEM.
- INSTALL AIR RELIEF VALVES AT ALL HIGH POINTS IN THE SYSTEM.
- PROVIDE O&M MANUALS FOR ALL EQUIPMENT.
- MINIMUM DESIGN WORKING PRESSURE SHALL BE 125 PSIG FOR ALL SUPPLY PIPING.
- PROTECT ALL EQUIPMENT AND MATERIALS DURING WHILE IN STORAGE AND DURING CONSTRUCTION. REPLACE ANY DAMMAGED ITEMS. DO NOT ATTEMPT TO REPAIR.
- INSTALL FORCE MAINS AT ELEVATIONS INDICATED.
- PROVIDE FINAL CONNECTIONS TO EQUIPMENT WITH SHUT-OFF VALVES, BALANCE REGULATORS, UNIONS, ETC. AS SPECIFIED AND AS REQUIRED BY EQUIPMENT OPERATION. COORDINATE WITH OWNER'S REPRESENTATIVE FOR EQUIPMENT IDENTIFICATION, CONNECTION REQUIREMENTS, EXACT LOCATIONS AND MOUNTING HEIGHTS.

THE CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES INVOLVED IN ACCOMPLISHING THE NEW WORK. PROBLEMS, DISCREPANCIES OR INFORMATION NEEDED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING PRIOR TO SUBMITTING A PROPOSAL. THE SUBMISSION OF PROPOSAL WILL INDICATE THAT THE CONTRACTOR HAS FULLY UNDERSTOOD AND HAS INCLUDED ALL COSTS FOR THIS PROJECT.

PLUMBING FIXTURE SCHEDULE

| MARK | FIXTURE | MANUFACTURER | MODEL No. | TYPE | MATERIAL | STYLE | COLOR | FAUCET / VALVE | | | | SUPPLY STOPS | DRAIN | | DOMESTIC CW | DOMESTIC HW | SANITARY WASTE | SANITARY VENT | REMARKS | NOTES | |
|------|-------------------|--------------|---------------|---------------|----------------------|---------------|-------|-------------------|-------------------|-------|----------------|--------------|---------------------|-------------------|-------------|-------------|----------------|---------------|---|---|-------|
| | | | | | | | | MANUFACTURER | MODEL | SPOUT | HANDLE/CENTERS | | TYPE/MFR/MODEL | TRAP SIZE | | | | | | | |
| P-1 | WATER CLOSET ADA | TOTO | CST446CEMFGN | TWO-PIECE | VITREOUS CHINA | FLOOR MOUNTED | WHITE | --- | --- | --- | --- | MCGUIRE | --- | --- | 1/2" | -- | 3" | 2" | WITH SIDE SKIRTS; PROVIDE WITH ELONGATED WHITE SEAT LIKE TOTO SS114 SOFT CLOSE. | 1,2 | |
| P-2 | BIDET | TOTO | BT500B | ONE-PIECE | VITREOUS CHINA | FLOOR MOUNTED | WHITE | KOHLER | K-73077-4 | --- | --- | --- | MCGUIRE | --- | --- | 1/2" | -- | 3" | 2" | WITH POP-UP DRAIN, FLUSHING RIM AND VERTICAL SPRAY | 1,2 |
| P-5 | SHOWER | OASIS | SHFW-3837/3SF | ONE-PIECE | GEL-CENT FIBER CLASS | --- | WHITE | KOHLER | KSS-PURIST-4-RTH5 | --- | --- | --- | --- | --- | 3/4" | -- | 2" | 1-1/2" | SHOWER FAUCET PACKAGE WITH HEADS, DIVERTER, HANDLES, HAND SHOWER, HOSE, SHOWER ARM, SLIDE BAR AND VALVE TRIM | 1,2 | |
| P-8 | MOP SINK | FIAT | MSB2424 | FLOOR MOUNT | MOLDED STONE | --- | WHITE | AMERICAN STANDARD | 8344.212 | --- | --- | --- | --- | --- | 1/2" | 1/2" | 2" | 1-1/2" | 24x24x10 MOP SERVICE BASIN. MOLDED HIGH DENSITY COMPOSITE BASIN WITH AND INTEGRALLY MOLDED, SELF-DRAINING MOP SHELF, PVC DRAIN BODY, S.S. DOME STRAINER/LINT BASKET, AND 3" GASKETED OUTLET CONNECTION LIKE ZURN Z1996-24 WITH STAINLESS STEEL BUMPER GUARD, HOSE AND HOSE BRACKET, MOP HANGER, AND STAINLESS STEEL WALL GUARDS; TOP OF WALL GUARDS SHALL BE 3" ABOVE TOP LIP OF BASIN. WITH CHROME-PLATED SERVICE FAUCET, COMPLETE WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, FOUR-ARM HOT AND COLD HANDLES AND 3/4" HOSE THREAD ON SPOUT. WATER INLETS ARE FOR 1/2" PIPE AND ARE ECCENTRIC ON AN 8" CENTERLINE. | 2,4 | |
| P-3 | LAVATORY TRIM ADA | --- | --- | 1-HOLE | --- | --- | --- | DELTA | 533LF-MPU | ARC | LEVER | 8" | BRASS CRAFT CS400AC | DELTA RP26533 | 1-1/2" | 1/2" | 1/2" | 2" | 1-1/2" | WITH METAL POP-UP | 1,2,5 |
| P-4 | S.S SINK | PROFLO | PFSR332274 | DROP IN | S.S | DOUBLE BOWL | --- | DELTA | 16953-DST | ARC | LEVER | 8" | BRASS CRAFT CS400AC | PROFLO PF1431BRSS | 1-1/2" | 1/2" | 1/2" | 2" | 1-1/2" | --- | 1,4 |
| P-9 | WASHER BOX | SIoux CHIEF | 696-2303CF | RECESSED | PLASTIC | --- | WHITE | SIoux CHIEF | --- | --- | --- | --- | --- | --- | 1-1/2" | 1/2" | 1/2" | 2" | 1-1/2" | WITH WATER HAMMER ARRESTOR AND 1/4 TURN BALL VALVES | 2,4 |
| P-6 | TUB & SHOWER | OASIS | TSFW-6030XAF | ALCOVE | ACRYLIC | --- | WHITE | KOHLER | PURKT K-T14421-4 | --- | --- | --- | --- | --- | 1-1/2" | 1/2" | 1/2" | 2" | 1-1/2" | --- | 1,2 |
| P-7 | LAUNDRY | FIAT | FL-1 | FREE STANDING | --- | --- | WHITE | KRAUS | KPF-1610 | ARC | LEVER | --- | BRASS CRAFT CS400AC | PROFLO PF1431BRSS | 1-1/2" | 1/2" | 1/2" | 2" | 1-1/2" | DRILL TOP FOR SINGLE HOLE | 2 |
| P-10 | WATER/ICE BOX | SIoux CHIEF | 696-G1010XF | --- | ABS | --- | WHITE | --- | --- | --- | --- | --- | --- | --- | 1/2" | --- | --- | --- | --- | WITH VALVE AND ARRESTOR | --- |
| P-11 | WALL HYDRANT | WOODFORD | MODEL 65 | --- | --- | FREEZE PROOF | --- | --- | --- | --- | --- | --- | --- | --- | 1/2" | --- | --- | --- | --- | --- | --- |

- NOTE:**
- INSTALL ADA PLUMBING FIXTURES PER ANSI 117.1 GUIDELINES.
 - TRAPS, SUPPLIES, ETC TO BE CHROME.
 - PROVIDE ADA OFFSET GRID STRAINER AND PADDED SUPPLIES AND DRAIN.
 - SANITARY WASTE LINE SIZE AS INDICATED ON PLANS.
 - PROVIDE 0.5 AERATOR ON FAUCET.
 - PROVIDED AND INSTALLED UNDER TENANT PROVIDED PLANS.
 - FIXTURE TO HAVE MIXING VALVE MIX-1.

DOMESTIC WATER PIPING

| | 2" AND SMALLER | 2.5" AND BIGGER |
|---|--|--|
| UNDER-BUILDING-SLAB BUILDING SERVICE PIPING | SOFT COPPER TUBE - ASTM B 88, TYPE K (ASTM B 88M, TYPE A) INSTALLED IN PE ENCASUREMENT | MECHANICAL - JOINT, DUCTILE IRON PIPE; WITH MECHANICAL JOINTS PUSH-ON-JOINT, DUCTILE IRON PIPE WITH PUSH-ON-JOINT FITTINGS AND GASKETED JOINTS - INSTALLED IN PE ENCASEMENT PLAIN-END, DUCTILE-IRON PIPE; GROOVED-JOINT, DUCTILE-IRON-PIPE ACCESSORIES; AND GROOVED JOINTS - INSTALLED IN PE ENCASEMENT |
| UNDER-BUILDING-SLAB DOMESTIC WATER PIPING | HARD COPPER TUBE - ASTM B 88, TYPE L (ASTM B 88M, TYPE A) | |
| ABOVE GROUND DOMESTIC WATER PIPING | GALVANIZED-STEEL WITH GRAY-IRON WITH THREADED ENDS HARD COPPER TUBE - ASTM B 88, TYPE L (ASTM B 88M, TYPE A) PEX TUBE WITH CRIMPED JOINTS | GALVANIZED PIPE WITH TRHEADED OR GROOVED JOINTS HARD COPPER TUBE - ASTM B 88, TYPE L (ASTM B 88M, TYPE A) |
| FLEXIBLE CONNECTORS | CORRUGATED BRONZE TUBING WITH WIRE-BRAID COVERING; WORKING PRESSURE RATING OF 200 PSIG; PLAIN ENDS. CORRUGATED STAINLESS-STEEL TUBING WITH WIRE-BRAID COVERING; WORKING PRESSURE OF 200 PSIG WITH THREADED ENDS | CORRUGATED STAINLESS-STEEL TUBING WITH WIRE-BRAID COVERING; WORKING PRESSURE OF 200 PSIG WITH FLANGED ENDS |

- JOIN DISSIMILAR MATERIALS WITH DIELECTRIC FITTINGS
- INSTALL FLEXIBLE CONNECTORS TO SUCTION AND DISCHARGE OF WATER PUMPS
- INSTALL SUPPLY PIPING LEVEL AND PLUMB UNLESS INDICATED OTHERWISE AND WITH RIGHT ANGLES PARALLEL TO WALLS
- INSTALL SCH. 40 PVC PIPE SLEEVES FOR PIPING PASSING THROUGH FLOORS, ROOFS, AND WALLS. INSTALL FLUSH EXCEPT IN MECHANICAL ROOMS AND THEN EXTEND 2" ABOVE THE FINISHED FLOOR.
- IF APPLICABLE, MAINTAIN FIRE RATING AROUND PIPE PENETRATIONS

VALVES

| | 2" & SMALLER | 2 1/2" & BIGGER |
|-----------------------|---|--|
| SHUT-OFF VALVE | BALL | BUTTERFLY |
| THROTTLING SERVICE | GLOBE OR BUTTERFLY | |
| HOT WATER - BALANCING | | MEMORY STOP VALVE |
| DRAIN DUTY | | HOSE-END DRAIN VALVES |
| COMPRESSED AIR | BRONZE OR BRASS - SOLDERED OR THREADED BALL - TWO OR THREE PIECE; FULL PORT BRASS OR BRONZE WITH BRASS TRIM BRONZE LIFT CHECK - CLASS 125 WITH BRONZE DISC BRONZE SWING CHECK VALVE - CLASS 150, BRONZE DISC BRONZE GATE VALVES - CLASS 150, NON RISING STEM OR RISING STEM | IRON VALVES - THREADED OR FLANGED IRON, GROOVED BUTTERFLY - 300 CWP IRON SWING CHECK VALVES - CLASS 250, WITH METAL OR NONMETALLIC-TO-METAL SEATS IRON, GROOVED-END SWING CHECK VALVES - 300 CWP IRON GATE VALVES - CLASS 250, NON-RISING STEM OR OS&Y |
| HOT & COLD WATER | BRONZE OR BRASS - SOLDERED OR THREADED BALL - TWO OR THREE PIECE; FULL PORT BRASS OR BRONZE WITH BRASS TRIM BRONZE SWING CHECK VALVE - CLASS 150, BRONZE DISC BRONZE GATE VALVES - CLASS 150, NON RISING STEM OR RISING STEM BRONZE GLOBE VALVE - CLASS 125, BRONZE DISC | IRON VALVES - THREADED OR FLANGED IRON, GROOVED BUTTERFLY - 300 CWP IRON SWING CHECK VALVES - CLASS 250, WITH METAL OR NONMETALLIC-TO-METAL SEATS IRON, GROOVED-END SWING CHECK VALVES - 300 CWP IRON GATE VALVES - CLASS 250, NON-RISING STEM OR OS&Y IRON GLOBE VALVE - CLASS 125 |

- DO NOT ATTEMPT TO REPAIR DAMMAGED VALVES
- INSTALL VALVES TO ALLOW FOR SERVICE
- INSTALL VALVE STEMS AT OR ABOVE CENTER OF HORIZONTAL PIPE
- INSTALL TO ALLOW FOR FULL STEM MOVEMENT

| ESCUTCHEONS | TYPE |
|--|--|
| NEW PIPE | |
| PROTRUDING FROM WALL | ONE-PIECE, DEEP PATTERN |
| INSULATED PIPING | ONE-PIECE, STAMPED-STEEL |
| BARE PIPE | ONE-PIECE CAST BRASS - POLISHED CHROME-PLATED FINISH |
| FOR THE FLOOR | ONE-PIECE, FLOOR-PLATE |
| EXISTING PIPE | |
| ALL PIPE | SPLIT-PLATE STAMPED STEEL WITH POLISHED CHROME-PLATED FINISH |
| FOR THE FLOOR | SPLIT-CASTING, FLOOR-PLATE |
| 1 REPLACE BROKEN AND DAMMAGED ESCUTCHEONS AND FLOOR PLATES USING NEW MATERIALS | |
| 2 SUBMITT EACH TYPE FOR REVIEW | |

PLUMBING EQUIPMENT SCHEDULE

| MARK | MANUFACTURER | MODEL | DESCRIPTION | ELECTRICAL | | NOTES |
|-------|--------------|-----------------|-----------------------|------------|-------|-----------------------------|
| | | | | HP | V/PH | |
| CO-1 | SIoux CHIEF | 852-3PNR | CLEANOUT | --- | --- | |
| HWR-1 | GOULDS/LAING | E1-BCANCT 1W-06 | HOT WATER RECIRC PUMP | 14 WATTS | 120/1 | SET TIMER FOR ON AT 6AM-7PM |

SEWER AND VENT PIPING

| | 4" AND SMALLER | 6" AND BIGGER |
|---------------------------------------|--|--|
| ABOVEGROUND SOIL AND WASTE PIPING | HUBLESS, CAST-IRON, CISPI COUPLINGS AND COUPLED JOINTS SOLID WALL PVC | HUBLESS, CAST-IRON, CISPI COUPLINGS AND COUPLED JOINTS SOLID WALL PVC |
| ABOVEGROUND VENT PIPING | HUBLESS, CAST-IRON, CISPI COUPLINGS AND COUPLED JOINTS SOLID WALL PVC | HUBLESS, CAST-IRON, CISPI COUPLINGS AND COUPLED JOINTS SOLID WALL PVC |
| UNDERGROUND SOIL AND WASTE PIPING | HUBLESS, CAST-IRON, CISPI COUPLINGS AND COUPLED JOINTS SOLID WALL PVC | HUBLESS, CAST-IRON, CISPI COUPLINGS AND COUPLED JOINTS SOLID WALL PVC |
| ABOVEGROUND SANITARY SEWER FORCE MAIN | GALVANIZED-STEEL PIPE, PRESSURE FITTINGS AND THREADED JOINTS | |

- JOIN DISSIMILAR MATERIALS WITH DIELECTRIC FITTINGS
- IF APPLICABLE, MAINTAIN FIRE RATING AROUND PIPE PENETRATIONS

TANKLESS GAS WATER HEATER SCHEDULE

| TAG | MBH INPUT | | THERMAL EFF | FLOW RATE GPM | TEMP. RISE | WEIGHT LBS | HEIGHT INCHES | WDTH INCHES | DEPTH INCHES | ELECTRICAL | | MANUFACTURER/MODEL | NOTES |
|------|-----------|-------|-------------|---------------|------------|------------|---------------|-------------|--------------|------------|------|--------------------|-------|
| | MIN. | MAX. | | | | | | | | VOLTAGE | AMPS | | |
| WH-1 | 13.3 | 199.0 | 95% | 5.2 | 75F | 74 | 27.4 | 17.3" | 13.2 | 120/1φ | 4.0 | NAVLEN NPE-240A2 | ALL |
| WH-2 | 13.3 | 199.0 | 95% | 5.2 | 75F | 74 | 27.4 | 17.3" | 13.2 | 120/1φ | 4.0 | NAVLEN NPE-240A2 | ALL |
| WH-3 | 13.3 | 199.0 | 95% | 5.2 | 75F | 74 | 27.4 | 17.3" | 13.2 | 120/1φ | 4.0 | NAVLEN NPE-240A2 | ALL |

- NOTES:**
- Pipe T&P valve and condensate to FLOOR DRAIN.
 - With concentric vent kit through roof, LOW WATER CUT-OFF, INTERNAL CIRCULATOR & BUFFER TANK, AND NEUTRALIZATION TANK.
 - Provide intelligent cascading kit
- SCHED15

PIPING INSULATION SCHEDULE (INDOOR)

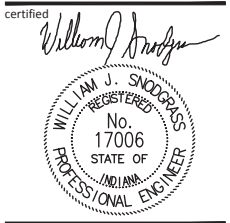
| | REFRIGERANT (SEE NOTE 4) | DOMESTIC HOT WATER & RETURN | DOMESTIC COLD WATER | HORIZONTAL STORM WATER (NOTE 3& 5) | CONDENSATE DRAIN |
|------------------------|--------------------------|-----------------------------|---------------------|------------------------------------|------------------|
| FLUID TEMP. RANGE (°F) | 40 & BELOW | 100-300 | 40-75 | 40-75 | 40-55 |
| INSULATION TYPE | MF OR FE | MF OR FE | MF OR FE | MF OR FE | MF OR FE |
| JACKET TYPE | FP | FP | FP | FP | FP |
| VAPOR BARRIER REQ'D | --- | --- | --- | --- | --- |
| RUNOUTS (NOTE 1& 2) | 1.0 | 0.5 | --- | --- | --- |
| 1" & LESS | 1.0 | 0.5 | 0.5 | --- | 0.5 |
| 1.25" TO 2" | 1.5 | 0.5 | 0.5 | 1.0 | 0.5 |
| 2.5" TO 4" | 1.5 | 1.0 | --- | 1.0 | 0.5 |
| 5" & ABOVE | --- | --- | --- | --- | --- |

NOTES:

- INDOOR INSTALLATION - FLAME SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 50 OR LESS.
- OUTDOOR INSTALLATION - FLAME SPREAD INDEX OF 75 OR LESS AND SMOKE-DEVELOPED INDEX OF 150 OR LESS.
- MATERIALS MAY NOT CONTAIN ASBESTOS, LEAD, MERCURY OR MERCURY COMPOUNDS.
- LONGITUDINAL SEAMS INSTALLED AT TOP AND BOTTOM OF HORIZONTAL RUNS.
- MULTIPLE LAYERS SHALL HAVE STAGGERED SEAMS.
- INSTALL WITH MINIMAL AMOUNT OF JOINTS.
- AVOID COMPRESSING INSULATION TO 75% OR MORE OF ITS NOMINAL THICKNESS.
- REPAIR ALL DAMMAGED PRODUCT AS NECESSARY.
- RUNOUTS NOT EXCEEDING 12 FEET IN LENGTH AND 2" PIPE TO INDIVIDUAL HVAC TERMINAL UNITS.
- RUNOUTS THAT ARE NOT LARGER THAN 1" AND NON-CIRCULATING TO INDIVIDUAL PLUMBING UNITS.
- INCLUDES ROOF DRAIN BODY AND VERTICAL RUN UP TO THE ROOF DRAIN BODY.
- PROVIDE PVC JACKET ON EXTERIOR REFRIGERANT PIPING.
- INSTALL 5'X3'X1/2" ARMAFLEX GLUED TO BOTTOM OF RD AND OFD BODY'S. (EXISTING & NEW)

INSULATION TYPES

FE FLEXIBLE ELASTOMERIC - COMPLYING WITH ASTM C 534, TYPE 1
MF MINERAL FIBER BLANKET (FIBERGLASS) - COMPLYING WITH ASTM C 553, TYPE II AND ASTM C 1290, TYPE I
SS STAINLESS STEEL



project title

BLOOMINGTON COOPERATIVE LIVING
410 W. KIRKWOOD AVE
BLOOMINGTON, IN

project information

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ISSUE DATE: 09/23/2022
REVISION DATE: CBU DETAIL RPZ 11/07/2022
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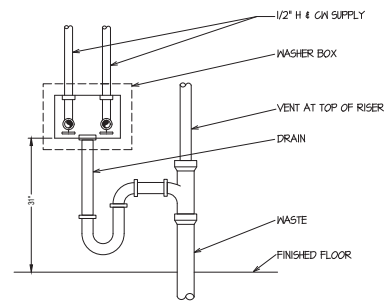
sheet title

PLUMBING SCHEDULES

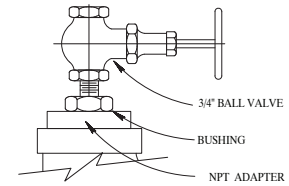
sheet number

| DRAWING INDEX | |
|---------------|-------------------------------------|
| DRAWING No. | DRAWING TITLE |
| P000 | PLUMBING SCHEDULES |
| P001 | PLUMBING DETAILS AND SPECIFICATIONS |
| P002 | PLUMBING DETAILS AND SPECIFICATIONS |
| P200 | PLUMBING WASTE PLAN |
| P300 | PLUMBING PIPING PLAN |

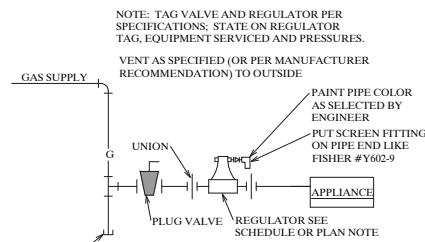
P001



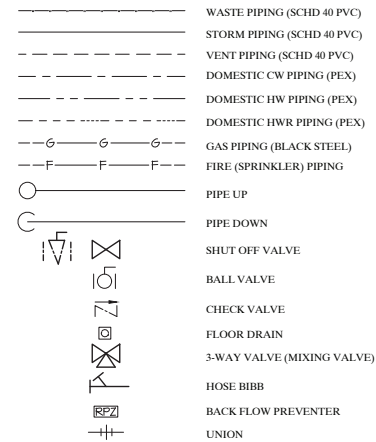
CLOTHES WASHER SUPPLY AND DRAIN DETAIL
NOT TO SCALE (A1)



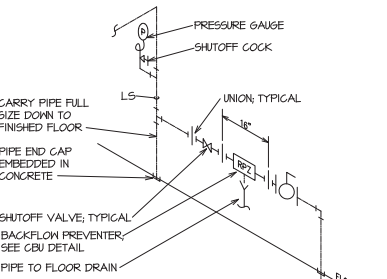
MANUAL AIR VENT DETAIL
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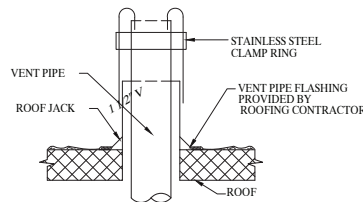
GAS APPLIANCE REGULATOR DETAIL
NOT TO SCALE (A3)



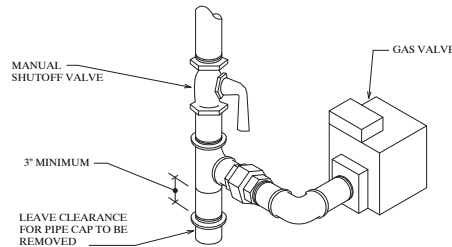
PIPING & SYMBOLS LEGEND (A4)



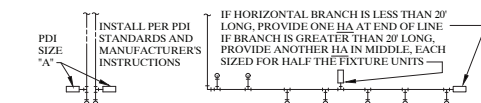
BUILDING WATER SERVICE
NOT TO SCALE (B1)



PLUMBING VENT THRU ROOF DETAIL
NOT TO SCALE (B2)



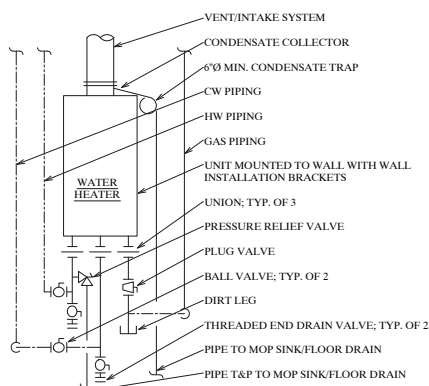
GAS DIRT LEG DETAIL
NOT TO SCALE (B3)



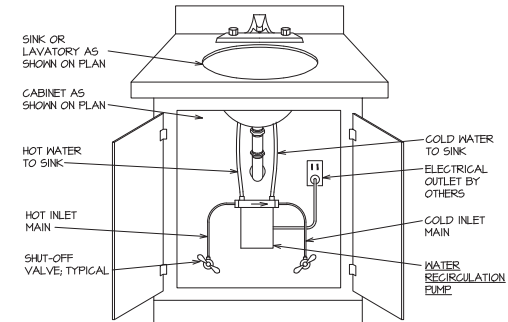
| PDI SIZE | PIPE SIZE | FIXTURE UNIT LOAD | FIXTURE UNIT TABULATION | |
|----------|-----------|-------------------|-------------------------|-----|
| | | | COLD | HOT |
| HA-A | 1/2" | 1-11 | 10 | -- |
| HA-B | 3/4" | 12-32 | 5 | -- |
| HA-C | 1" | 33-60 | 5 | -- |
| HA-D | 1-1/4" | 61-113 | 1.5 | 1.5 |
| HA-E | 1-1/2" | 114-154 | 3 | 3 |
| HA-F | 2" | 154-330 | 2 | 2 |

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-20L, ASSE #1000 AND ANSI #A11.22.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

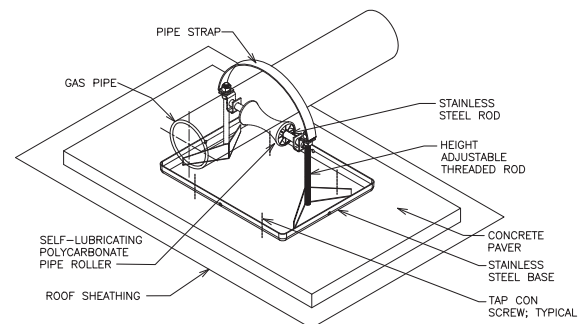
HAMMER ARRESTERS
NOT TO SCALE (B4)



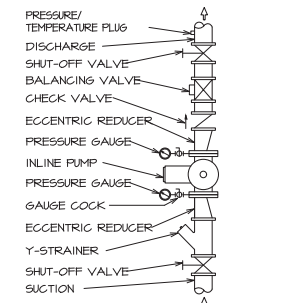
ON DEMAND WATER HEATER
NOT TO SCALE (C1)



HOT WATER RETURN SYSTEM DETAIL
NOT TO SCALE (C2)



ROOF GAS SUPPORT DETAIL
NOT TO SCALE (C3)



INLINE PUMP - PIPING DETAIL
NOT TO SCALE (C4)

DOMESTIC WATER PIPING

1.1 COPPER TUBE AND FITTINGS

- A. ASTM B 88, TYPE L (ASTM B 88M, TYPE B) HARD COPPER TUBE, WATER TUBE, DRAWN TEMPER WITH SOLDER OR PUSH-ON JOINT FITTINGS, BRONZE FLANGES, COPPER UNIONS WITH EPDM-RUBBER O-RING SEALS AND GROOVED-END FITTINGS AND COUPLINGS.
B. ASTM B 88, TYPE K (ASTM B 88M, TYPE A), SOFT COPPER TUBE, WATER TUBE, ANNEALED TEMPER WITH WROUGHT-COPPER PRESSURE FITTINGS OR PRESSURE-SEAL-JOINT FITTINGS WITH EPDM-RUBBER O-RING SEALS.

1.2 PIPING JOINING MATERIALS

- A. PIPE-FLANGE GASKET MATERIALS SHALL BE, NONMETALLIC AND ASBESTOS FREE, FULL-FACE OR RING TYPE.
B. METAL PIPE-FLANGE BOLTS AND NUTS ARE CARBON STEEL.
C. SOLDER FILLER METALS SHALL BE LEAD FREE ALLOYS WITH WATER-FLUSHABLE FLUX.

1.3 TRANSITION FITTINGS

- A. TRANSITION FITTING SHALL BE THE SAME SIZE, PRESSURE RATING AND END CONNECTIONS AS THE ADJOINING PIPES.

1.4 DIELECTRIC FITTINGS

- A. SEPARATE DISSIMILAR PIPE MATERIALS WITH NONCONDUCTIVE INSULATING MATERIAL THAT IS COMPATIBLE WITH THE FLUID AND ITS CHARACTERISTICS.

1.5 FLEXIBLE CONNECTORS

- A. CORRUGATED-BRONZE TUBING WITH BRONZE WIRE-BRAID COVERING AND ENDS BRAZED TO INNER TUBING, MINIMUM OF 200 PSIG WORKING PRESSURE AND PLAIN ENDS.
B. CORRUGATED-STAINLESS-STEEL TUBING WITH STAINLESS-STEEL WIRE-BRAID COVERING AND ENDS WELDED TO INNER TUBING, MINIMUM OF 200 PSIG WORKING PRESSURE AND THREADED OR FLANGED ENDS.

1.10 PIPING INSTALLATION

- A. INSTALL SHUTOFF VALVE IMMEDIATELY UPSTREAM OF EACH DIELECTRIC FITTING.
B. INSTALL UNIONS IN COPPER TUBING AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT, MACHINE, AND SPECIALTY.
C. IDENTIFY ALL PIPING USING PIPE LABELS.

1.11 HANGER AND SUPPORT INSTALLATION

- A. INSTALL MSS TYPE 8 OR 42 CLAMPS FOR VERTICAL PIPING.
B. INSTALL MSS TYPE 1, ADJUSTABLE STEEL CLEVIS HANGERS FOR PIPING RUNS LESS THAN 100 FEET.
C. INSTALL MSS TYPE 43 ADJUSTABLE ROLLER HANGERS OR MSS TYPE 49 SPRING CUSHION ROLLS FOR PIPING RUNS GREATER THAN 100 FEET.
D. INSTALL MSS TYPE 44 PIPE ROLLS FOR MULTIPLE, STRAIGHT, HORIZONTAL PIPE RUNS 100 FEET OR LONGER. SUPPORT PIPE ROLLS ON TRAPEZE.
E. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS.
F. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.
G. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MINIMUM OF 3/8 INCH.

1.12 FIELD QUALITY CONTROL

- A. PERFORM TESTS AND INSPECTIONS.
B. COMPLY WITH AUTHORITIES HAVING JURISDICTION ON APPROPRIATE TESTING AND INSPECTIONS. PREPARE INSPECTION REPORTS AS REQUIRED.
C. PIPING TESTS:
1. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.
2. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
3. LEAVE NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED.
4. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
5. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING UNTIL ACCEPTABLE RESULTS ARE OBTAINED.
6. PREPARE REPORTS FOR TESTS AND FOR CORRECTIVE ACTION REQUIRED.
D. DOMESTIC WATER PIPING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
E. PREPARE TEST AND INSPECTION REPORTS.
F. PERFORM ADJUSTMENTS AS NECESSARY TO ALL VALVES, HYDRANTS, HOSE BIBBS.
G. CLEAN AND DISINFECT POTABLE AND NON-POTABLE DOMESTIC WATER PIPING PER AWWA PROCEDURES.

SANITARY WASTE AND VENT PIPING

1.1 PVC PIPE AND FITTINGS

- A. SCHEDULE 40 CELLULAR-CORE PVC PIPE WITH CORRESPONDING ADHESIVE PRIMER AND SOLVENT CEMENT.

1.2 SPECIALTY PIPE FITTINGS

- A. TRANSITION COUPLINGS:
1. FITTING OR DEVICE FOR JOINING PIPING WITH SMALL DIFFERENCES IN ODS OR OF DIFFERENT MATERIALS. INCLUDE END CONNECTIONS SAME SIZE AS AND COMPATIBLE WITH PIPES TO BE JOINED.
2. FITTING-TYPE TRANSITION COUPLINGS SHALL BE MANUFACTURED PIPING COUPLING OR SPECIFIED PIPING SYSTEM FITTING.
3. SHIELDED, NONPRESSURE TRANSITION COUPLINGS SHALL BE ELASTOMERIC OR RUBBER SLEEVE WITH FULL-LENGTH, CORROSION-RESISTANT OUTER SHIELD AND CORROSION-RESISTANT-METAL TENSION BAND AND TIGHTENING MECHANISM ON EACH END.
4. PRESSURE TRANSITION COUPLINGS SHALL BE METAL SLEEVE-TYPE AND THE SAME MATERIAL AND JOINING ENDS AS THE PIPE.

1.3 PERFORMANCE REQUIREMENTS

- A. MINIMUM WORKING PRESSURE FOR SOIL, WASTE AND VENT PIPING SHALL BE 10-FOOT HEAD OF WATER.

1.4 PIPING INSTALLATION

- A. INSTALL PIPING FREE OF SAGS AND BENDS.
B. INSTALL ONLY SANITARY FITTINGS APPROPRIATE TO THE APPLICATION.
C. INSTALL BUILDING SANITARY DRAIN: WITH A 2 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 3 AND SMALLER AND 1 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 4 AND LARGER.
D. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
E. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.

1.5 SPECIALTY PIPE FITTING INSTALLATION

- A. INSTALL TRANSITION COUPLINGS WHEN THERE ARE SMALL DIFFERENCES IN ODS, IN SHIELDED NONPRESSURE DRAINAGE PIPING, AND FORCE MAIN PIPING.
B. INSTALL DIELECTRIC FITTINGS IN PIPING AT CONNECTIONS OF DISSIMILAR METAL PIPING AND TUBING.

1.6 HANGER AND SUPPORT INSTALLATION

- A. INSTALL CARBON-STEEL PIPE HANGERS FOR HORIZONTAL PIPING IN NONCORROSIIVE ENVIRONMENTS.
B. INSTALL FIBERGLASS PIPE HANGERS FOR HORIZONTAL PIPING IN CORROSIIVE ENVIRONMENTS.
C. SUPPORT HORIZONTAL PIPING AND TUBING WITHIN 12 INCHES OF EACH FITTING AND COUPLING.
D. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.
E. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, WITH 3/8-INCH MINIMUM RODS.

1.7 CONNECTIONS

- A. CONNECT SANITARY AND VENT PIPING TO ALL INDICATED FIXTURES.
B. CONNECT WITH UNION IN PIPING THAT IS NPS 2 AND SMALLER.
C. CONNECT WITH FLANGES IN PIPING THAT NPS 2 1/2 AND LARGER.

1.8 TESTING

- A. DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST 24 HOURS BEFORE INSPECTION MUST BE MADE. PERFORM ALL TESTS SPECIFIED BY AND IN THE PRESENCE OF AUTHORITIES HAVING JURISDICTION.
B. PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.
C. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING UNTIL PIPES HAVE PASSING RESULTS.

1.9 CLEANING AND PROTECTION

- A. STORE AND PROTECT ALL MATERIALS DURING THE ENTIRE CONSTRUCTION PROCESS.

PLUMBING IDENTIFICATION

1.1 EQUIPMENT LABELS

- A. METAL LABELS FOR EQUIPMENT SHALL BE A MINIMUM OF 2.5"X 0.75"X 0.025" THICK STAINLESS STEEL WITH PREDRILLED OR STAMPED HOLES FOR ATTACHMENT AND STAINLESS STEEL RIVETS OR SELF-TAPPING SCREWS. LETTER SIZING SHALL BE A MINIMUM OF 0.5" TALL. AT A MINIMUM THE LABEL SHALL INCLUDE THE UNIQUE EQUIPMENT NUMBER DESIGNATION AS SHOWN ON THE DRAWINGS OR SPECIFICATIONS. PROVIDE AN EQUIPMENT SCHEDULE FOR THE OWNER.

1.2 WARNING SIGNS AND LABELS

- A. WARNING SIGNS AND LABELS SHALL BE MULTILAYERED, MULTICOLORED, PLASTIC LABELS FOR MECHANICAL ENGRAVING, 1/8" THICK, AND HAVE PREDRILLED HOLES FOR ATTACHMENT HARDWARE. LETTERING SHALL BE RED WITH A WHITE BACKGROUND. THE MINIMUM SIZE SHALL BE 2.5" X 0.75" WITH LETTERING A MINIMUM 0.5" TALL. FASTENERS SHALL BE STAINLESS STEEL RIVETS OR SELF-TAPPING SCREWS. INFORMATION SHOULD INCLUDE CAUTION AND WARNING INFORMATION AND EMERGENCY INSTRUCTIONS.

1.3 PIPE LABELS

- A. ALL PIPE LABELS SHALL BE PREPRINTED, COLOR-CODED WITH LETTERING INDICATING SERVICE AND FLOW DIRECTION. LETTERING SIZE SHALL BE AT LEAST 1.5" TALL.
B. SELF-ADHESIVE PIPE LABELS SHALL BE PRINTED PLASTIC WITH CONTACT-TYPE, PERMANENT-ADHESIVE BACKING.

1.4 VALVE TAGS

- A. VALVE TAGS SHALL BE STAINLESS STEEL, 0.025" THICK WITH PREDRILLED OR STAMPED HOLES FOR BRASS WIRE-LINK, BEADED CHAIN OR S-HOOK AND STAMPED OR ENGRAVED WITH 0.25" LETTERS FOR PIPING SYSTEM ABBREVIATION AND 0.5" NUMBERS. VALVE TAGS SHALL BE 2" ROUND WITH BLACK LETTERING. PROVIDE A VALVE SCHEDULE FOR OWNER.

1.5 WARNING TAGS

- A. WARNING TAGS SHALL BE A MINIMUM OF 3"X5.25" AND PREPRINTED OR PARTIALLY PREPRINTED, ACCIDENT-PREVENTION TAGS, OF PLASTICIZED CARD STOCK WITH MATTE FINISH SUITABLE FOR WRITING INCLUDE BRASS GROMMET AND WIRES FOR FASTENING. WRITING SHALL BE LARGE-SIZE WITH WORDS SUCH AS "DANGER" OR "CAUTION". USE BLACK LETTERING WITH A YELLOW BACKGROUND.

1.6 INSTALLATION

- A. ENSURE THAT SURFACES ARE CLEAN AND READY TO ACCEPT LABEL.
B. LOCATE LABELS WHERE ACCESSIBLE AND VISIBLE.
C. LOCATE PIPE LABELS WHERE PIPING IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS IN FINISHED SPACES. LOCATE A MAXIMUM OF 50' INTERVALS AND 25' IF IN CONGESTED AREAS. ALWAYS LOCATE NEAR EQUIPMENT AND DEVICES.
D. PIPE LABEL COLOR SCHEDULE:
1. LOW-PRESSURE, COMPRESSED-AIR PIPING WITH WHITE BACKGROUND AND BLACK LETTERING
2. MEDIUM-PRESSURE, COMPRESSED-AIR PIPING WITH WHITE BACKGROUND AND BLACK LETTERING
3. DOMESTIC WATER PIPING WITH WHITE BACKGROUND AND BLUE LETTERING.
4. SANITARY WASTE PIPING WITH BLACK BACKGROUND AND WHITE LETTERING.
E. ON WARNING TAGS WRITE REQUIRED MESSAGE ON, AND AT EACH WARNING TAGS TO, EQUIPMENT AND OTHER ITEMS REQUIRED BY OWNER.

PIPING INSULATION

1.1 INSULATION MATERIALS

- A. FLEXIBLE ELASTOMERIC INSULATION:
B. MINERAL-FIBER BLANKET INSULATION:
C. MINERAL-FIBER, PREFORMED PIPE INSULATION:

1.2 INSULATING CEMENTS

- A. MINERAL-FIBER INSULATING CEMENT
B. EXPANDED OR EXFOLIATED VERMICULITE INSULATING CEMENT
C. MINERAL-FIBER, HYDRAULIC-SETTING INSULATING AND FINISHING CEMENT

1.3 ADHESIVES

- A. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.
B. FLEXIBLE ELASTOMERIC ADHESIVE: COMPLY WITH MIL-A-24179A, TYPE II, CLASS I.
C. MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A.
D. ASI ADHESIVE, AND FSK JACKET ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A FOR BONDING INSULATION JACKET LAP SEAMS AND JOINTS.
E. PVC JACKET ADHESIVE: COMPATIBLE WITH PVC JACKET.

1.4 SEALANTS

- A. ASI FLASHING SEALANTS AND PVC JACKET FLASHING SEALANTS SHALL BE WHITE WITH FIRE AND WATER RESISTANT ELASTOMERIC AND SERVICE TEMPERATURE RATING OF -40 TO +250 DEG F.

1.5 FACTORY-APPLIED JACKETS

- A. ASI IS WHITE WITH KRAFT-PAPER AND FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING.
B. ASI-SS IS SELF-SEALING ASI WITH PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP.

1.6 FIELD-APPLIED JACKETS

- A. PVC JACKET SHALL BE HIGH-IMPACT-RESISTANT, UV-RESISTANT. FINISH COLOR SHALL BE CHOSEN BY THE OWNER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

1.7 TAPES

- A. ASI TAPE SHALL BE 3" WIDE WHITE VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE, 11.5 MILS THICK WITH A TENSILE STRENGTH OF 40LB/FINCH WIDTH AND USE PRECUT DISKS OR SQUARES.
B. PVC TAPE SHALL BE 2" WIDE WHITE VAPOR-RETARDER TAPE MATCHING FIELD-APPLIED PVC JACKET WITH ACRYLIC ADHESIVE AND SUITABLE FOR INDOOR AND OUTDOOR APPLICATIONS; 6 MILS THICK WITH A TENSILE STRENGTH OF 18 LB/FINCH IN WIDTH.

1.8 SECUREMENTS

- A. 304 STAINLESS STEEL BANDS 0.015", 1/2" WIDE WITH WING SEAL.
B. STAPLES SHALL BE OUTWARD-CLINCHING INSULATION STAPLES, NOMINAL 3/4-INCH-WIDE, STAINLESS STEEL.
C. WIRE SHALL BE 0.062-INCH SOFT-ANNEALED, STAINLESS STEEL.

1.9 INSTALLATION

- A. REVIEW CONDITIONS OF SUBSTRATES BEFORE BEGINNING INSTALLATION FOR COMPLIANCE WITH TOLERANCES, ETC.
B. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE.
C. DO NOT WELD BRACKETS, CLIPS, OR OTHER ATTACHMENT DEVICES TO PIPING, FITTINGS, AND SPECIALTIES.
D. APPLY ADHESIVES, MASTICS, AND SEALANTS AT MANUFACTURER'S RECOMMENDED COVERAGE RATE AND WET AND DRY FILM THICKNESSES.
E. INSTALL INSULATION WITH FACTORY-APPLIED JACKETS PER MANUFACTURER'S RECOMMENDATIONS.
F. FINISH INSTALLATION WITH SYSTEMS AT OPERATING CONDITIONS. REPAIR JOINT SEPARATIONS AND CRACKING DUE TO THERMAL MOVEMENT.
G. REPAIR DAMAGED INSULATION FACINGS BY APPLYING SAME FACING MATERIAL OVER DAMAGED AREAS. EXTEND PATCHES AT LEAST 4 INCHES BEYOND DAMAGED AREAS. ADHERE, STAPLE, AND SEAL PATCHES SIMILAR TO BUTT JOINTS.
H. FOR ABOVE-AMBIENT SERVICES, DO NOT INSTALL INSULATION TO VIBRATION-CONTROL DEVICES, TESTING AGENCY LABELS AND STAMPS, NAMEPLATES AND DATA PLATES AND CLEANOUTS.
I. INSTALL INSULATION ON FITTINGS, VALVES, STRAINERS, FLANGES, AND UNIONS.
J. INSULATE INSTRUMENT CONNECTIONS FOR THERMOMETERS, PRESSURE GAGES, PRESSURE TEMPERATURE TAPS, TEST CONNECTIONS, FLOW METERS, SENSORS, SWITCHES, AND TRANSMITTERS ON INSULATED PIPES. SHAPE INSULATION AT THESE CONNECTIONS BY TAPERING IT TO AND AROUND THE CONNECTION WITH INSULATING CEMENT AND FINISH WITH FINISHING CEMENT, MASTIC, AND FLASHING SEALANT.

1.10 PENETRATIONS

- A. INSTALL INSULATION CONTINUOUSLY THROUGH ROOF PENETRATIONS AND ABOVE GROUND EXTERIOR WALL PENETRATIONS. SEAL PENETRATIONS WITH FLASHING SEALANT. IF INSULATION IS ONLY REQUIRED INDOORS THEN TERMINATE INSULATION ABOVE ROOF SURFACE. IF REQUIRED OUTDOOR AS WELL THEN INSTALL INSULATION TIGHTLY JOINED TO INDOOR INSULATION AND SEAL THE JOINT WITH SEALANT.
B. INSTALL INSULATION AT UNDERGROUND EXTERIOR WALL PENETRATIONS AND TERMINATE INSULATION FLUSH WITH SLEEVE SEAL. SEAL TERMINATIONS WITH FLASHING SEALANT.
C. INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS.
D. INSTALL INSULATION CONTINUOUSLY THROUGH FIRE-RATED WALL PARTITION PENETRATIONS AND FLOORS. SEAL WITH FIRE RATED SEALANT.

1.11 FIELD-APPLIED JACKET INSTALLATION

- A. WHERE PVC JACKETS ARE INDICATED, INSTALL WITH 1-INCH (25-MM) OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS. SEAL WITH MANUFACTURER'S RECOMMENDED ADHESIVE.
B. WHERE METAL JACKETS ARE INDICATED, INSTALL WITH 2-INCH (50-MM) OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS. OVERLAP LONGITUDINAL SEAMS ARRANGED TO SHED WATER. SEAL END JOINTS WITH WEATHERPROOF SEALANT RECOMMENDED BY INSULATION MANUFACTURER. SECURE JACKET WITH STAINLESS-STEEL BANDS 1/2 INCHES (300 MM) O.C. AND AT END-JOINTS.

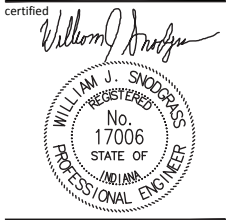
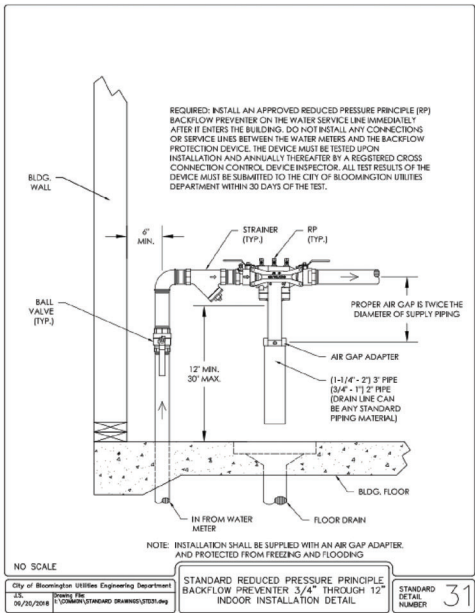
1.12 FINISHES

- A. INSULATION WITH ASI SHALL HAVE TWO FINISH COATS OF FLAT ACRYLIC OVER A PRIMER THAT HAS A FUNGICIDAL AGENT.
B. FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION APPLY TWO COATS OF MANUFACTURER'S RECOMMENDED PROTECTIVE COATING AFTER THE ADHESIVE HAS FULLY CURE.
C. DO NOT FIELD PAINT ALUMINUM OR STAINLESS-STEEL JACKETS.

1.13 FIELD QUALITY CONTROL

- D. PERFORM TESTS AND INSPECTIONS. REPAIR ANY INSULATION THAT FAILS.

Table with columns for HANGER SPACING (3/4", 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 6, 8, 10-12) and VERTICAL SPACING (SUPPORT VERTICAL PIPE EVERY 10', 15', 48', 15'). Rows include COPPER TUBING, STEEL PIPING, PEX, CAST IRON DRAINAGE PIPING, PVC DRAINAGE PIPING, and CORRUGATED STAINLESS STEEL TUBING.



project title

BLOOMINGTON COOPERATIVE LIVING

BLOOMINGTON, IN

410 W. KIRKWOOD AVE

project information

PROJECT NUMBER: 22100
ISSUE DATE: 09/23/2022
REVISION DATE: CBU DETAIL RPZ 11/07/2022
PLAN CHANGES: 12/19/2022

sheet title

PLUMBING DETAILS

sheet number

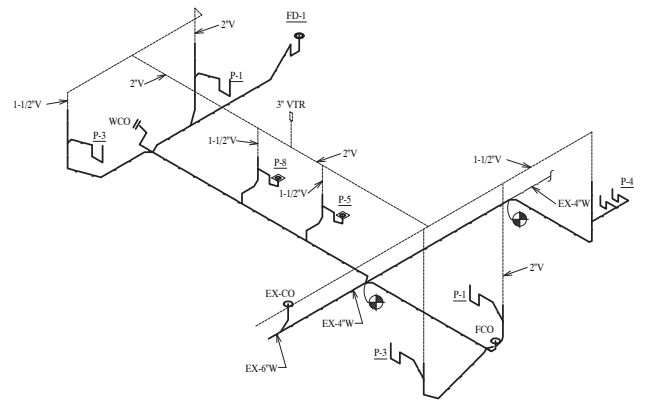
P003

FIELD VERIFY:

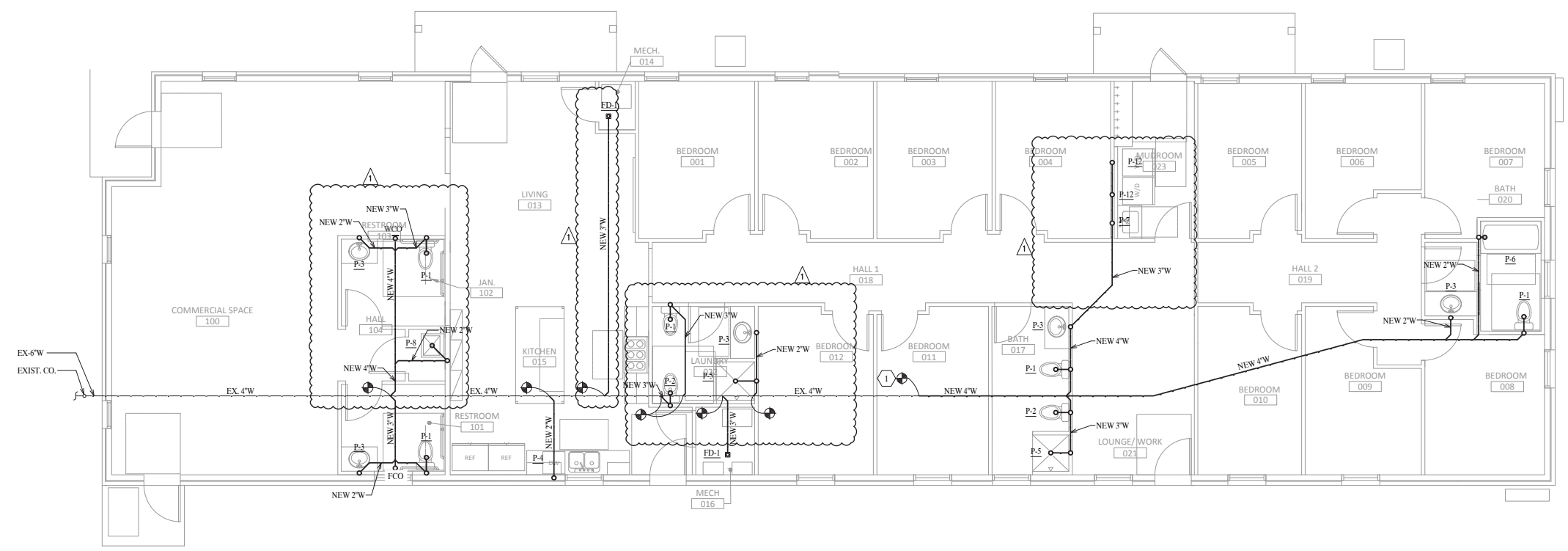
INFORMATION CONCERNING THE LOCATION(S) AND SIZES OF EXISTING EQUIPMENT AND PIPING WAS OBTAINED FROM EXISTING DRAWINGS AND CURSORY FIELD OBSERVATION. HOWEVER, ACTUAL "ASBUILT" DRAWINGS WERE NOT AVAILABLE. CERTAIN INFORMATION CONCERNING THE LOCATION OF THE EXISTING CONDITIONS HAS BEEN ASSUMED IN THIS DRAWING. THE EXACT LOCATION(S) AND DIRECTION OF FLOW OF ALL EXISTING EQUIPMENT, ETC., IS UNKNOWN. REASONABLE EFFORT HAS BEEN MADE TO ACCURATELY DEPICT THE EXISTING CONDITIONS. HOWEVER, ALL EXISTING WORK MUST BE VERIFIED IN THE FIELD TO DETERMINE THE EXACT LOCATIONS, DIRECTIONS OF PIPE RUNS, SIZE, ETC.. PRIOR TO STARTING CONSTRUCTION. ANY CONFLICT BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER FOR VERIFICATION AND/OR CORRECTION.

PLAN NOTES:

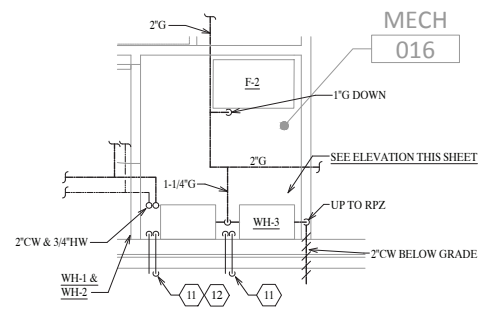
1. VERIFY LOCATION AND INVERT. IF INVERT IS TOO SHALLOW, PIPE NEW FIXTURES OUT EAST WALL AND RUN SOUTH DOWN SIDE OF BUILDING AND RECONNECT TO EXISTING 6" WASTE AT EXISTING CLEANOUT.



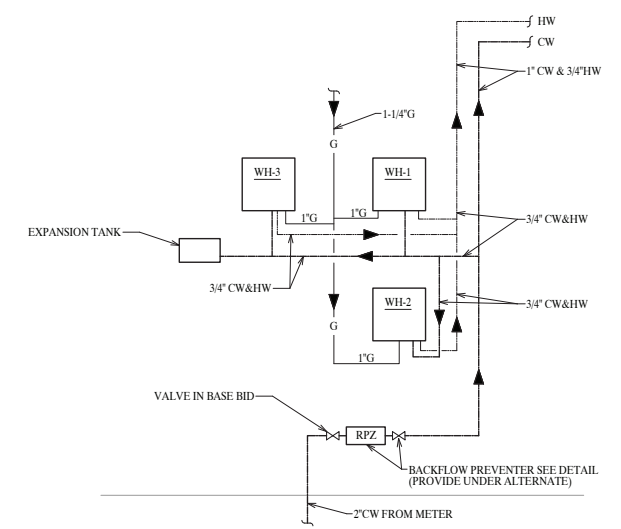
WASTE ISOMETRIC
NO SCALE.



FLOOR PLAN - WASTE
SCALE: 3/16" = 1'-0"

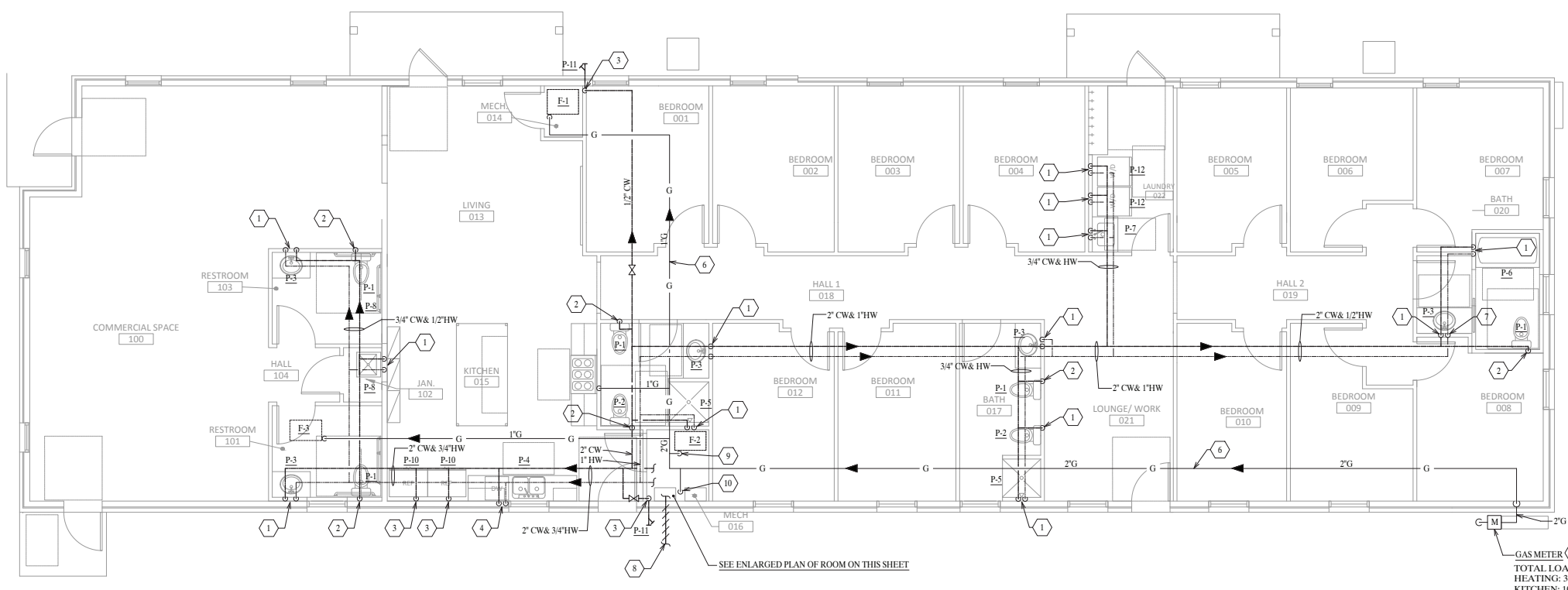


MECH 016 PLAN
SCALE: 1/4" = 1'-0"



WATER SERVICE & HEATING ELEVATION
NO SCALE:

- # PLAN NOTES:
- 1/2" CW & HW DOWN TO FIXTURE.
 - 1/2" CW DOWN TO FIXTURE.
 - 1/2" CW DOWN TO FIXTURE.
 - 1/2" CW & HW DOWN IN WALL, PIPE OVER TO KITCHEN SINK AND DISH WASHER AS REQUIRED.
 - REMOVE 3 GAS METERS PER UTILITY REQUIREMENTS AND ASSOCIATED PIPING. MODIFY 1 METER FOR BUILDING USE AND RE-PIPE AS SHOWN.
 - GAS PIPING UP IN ATTIC.
 - HOT WATER RETURN PUMP LOCATED IN CABINET BELOW SINK. SEE DETAIL.
 - 2" CW BELOW GRADE. SEE CIVIL DRAWINGS.
 - 1" GAS DOWN.
 - 1-1/4" GAS DOWN.
 - 3" DIA. INTAKE AND FLUE, CONCENTRIC VENT KIT, EITHER SIDEWALL OR THROUGH ROOF AS REQUIRED.
 - TWO SETS OF INTAKE AND FLUE VENTS.



FLOOR PLAN - PIPING
SCALE: 3/16" = 1'-0"

GAS METER (5)
TOTAL LOAD: 1,072.0 MBH @ 6-1/2" I.N.C.
HEATING: 375.0 MBH
KITCHEN: 100.0 MBH
WATER HEATING: 597.0 MBH

POWER

| | |
|--|--|
| | DUPLEX RECEPTACLE |
| | RECEPTACLE SPECIAL, NEMA CONFIGURATION |
| | FLUSH FLOOR OUTLET |
| | FLUSH FLOOR BOX, THREE GANG |
| | EMERGENCY BATTERY UNIT |
| | RECEPTACLE, SINGLE |
| | RECEPTACLE, DUPLEX |
| | RECEPTACLE CEILING MOUNTED, DUPLEX |
| | RECEPTACLE, QUADPLEX |
| | RECEPTACLE, DUPLEX WEATHERPROOF ('WHILE-IN-USE' TYPE) |
| | RECEPTACLE ON EMERGENCY CIRCUIT, RECEPTACLE AND PLATE SHALL BE RED |
| | RECEPTACLE, DUPLEX, EMERGENCY RED TWIST LOCK |
| | RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER |
| | USB RECEPTACLE |
| | DOORBELL PUSH BUTTON |
| | DOOR BELL CHIME |
| | TRANSFORMER, 120V TO LOW VOLTAGE |
| | SECURITY ALARM POINT DOOR SWITCH |
| | SECURITY DOOR LOCK RELEASE - ELECTRIC STRIKE |
| | SECURITY MOTION DETECTOR |
| | SECURITY ALARM BELL |
| | CLOCK OUTLET |
| | CLOCK OUTLET WITH CONTROL STATION |
| | TELEVISION OUTLET (RG6) |
| | JUNCTION BOX 4 11/16 x 4 11/16 x 2 1/8" UNLESS NOTED OTHERWISE |
| | MAIN DISTRIBUTION OR POWER PANELBOARDS |
| | FLUSH OR SURFACE MOUNTED BRANCH PANELBOARDS 120/280V |
| | ELECTRICAL CONNECTION |
| | DISCONNECT SWITCH |
| | MOTOR CONTROLLER WITH AUX CONTACTS HOA, PB, PILOT AND CONTROL TRANSFORMER. |
| | TELEVISION OUTLET (RG6 AND 2-CAT6) |
| | FUSED DISCONNECT SWITCH |
| | ELECTRICAL TRANSFORMER |
| | NON-FUSED DISCONNECT SWITCH RATING AS NOTED |
| | CIRCUIT POWER TRANSFORMER 480V PRIMARY, 120V SECONDARY |
| | CIRCUIT BREAKER |
| | FUSE |
| | GROUND |
| | ELECTRICAL MOTOR CONNECTION - VERIFY HP, AND PHASE |
| | ELECTRICAL CONNECTION |

LIGHTS

| | |
|--|---|
| | SURFACE MOUNTED OR RECESSED LED FIXTURE |
| | WALL MOUNTED LED FIXTURE |
| | SURFACE/RECESSED 1 x 4 LED LIGHT FIXTURE |
| | SURFACE/RECESSED 2 x 4 LED LIGHT FIXTURE |
| | PHOTOCELL |
| | EXIT LIGHT FIXTURE CEILING MOUNTED |
| | EXIT LIGHT FIXTURE WALL MOUNTED |
| | LIGHT FIXTURE CONNECTED TO EMERGENCY POWER |
| | BATTERY OPERATED EMERGENCY LIGHT - WALL MOUNTED |
| | POLE MOUNTED LIGHT FIXTURE - SINGLE HEAD |
| | SURFACE / RECESSED LED FIXTURE |
| | WALL MOUNTED LED FIXTURE |
| | BOLLARD LIGHT FIXTURE |
| | FLOOD LIGHT GROUND MOUNTED |

WIRE

| | |
|--|--|
| | HOMERUN |
| | WIRING CONCEALED IN CEILING OR WALL |
| | WIRING CONCEALED UNDER OR IN FLOOR |
| | WIRING EMERGENCY |
| | WIRING TURNED UP |
| | WIRING TURNED DOWN |
| | WIREMOLD APPENDED NOTE DENOTES TYPE |
| | CABLE TRAY |
| | HEAT TRACE CABLE |
| | CARD KEY ACCESS CONTROL |
| | CEILING MOUNTED FIRE ALARM HORN / STROBE |

FIRE

| | |
|--|--|
| | IONIZATION SMOKE |
| | THERMAL DETECTOR 135° FIXED |
| | PHOTO DETECTOR PHOTO ELECTRIC |
| | PULL STATION |
| | STROBE UNIT 30CD |
| | FIRE ALARM, IONIZATION DUCT DETECTOR |
| | COMBINATION PHOTOELECTRIC & CARBON MONOXIDE DETECTOR |
| | FIRE ALARM CONTROL PANEL |
| | FIRE ALARM ANNUNCIATOR PANEL |
| | FIRE ALARM, TAMPER SWITCH |
| | FIRE ALARM, FLOW SWITCH |
| | HORN STROBE |
| | FIRE ALARM, SPEAKER |
| | FIRE ALARM, SPEAKER STROBE |

SWITCHES

| | |
|--|--|
| | SWITCH, SINGLE POLE |
| | SWITCH, THREE-WAY |
| | SWITCH, FOUR-WAY |
| | SWITCH, DIMMER |
| | SWITCH, DOOR SECURITY |
| | SWITCH, KEYED |
| | SWITCH, PILOT LIGHT |
| | SWITCH, CONTROLLING FIXTURES MARKED WITH A |
| | SWITCH, MANUAL TIMER |
| | TT SWITCH FOR MOTORS 1/2HP OR SMALLER |
| | PUSH BUTTON CONTROL STATION |
| | PUSH BUTTON "UP-DOWN-DN" |
| | PANIC BUTTON |
| | MOTION DETECTOR |
| | SECURITY GLASS BREAK DETECTOR |

| | |
|--|---|
| | SINGLE CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWS1277UX(COLOR). |
| | DUAL CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWD1277UX(COLOR). |
| | LOW VOLTAGE ULTRASONIC CEILING SENSOR 'SCHNEIDER ELECTRIC' #SLSCUS2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSP1277 (POWER PACK) |
| | LOW VOLTAGE CEILING MOUNT PIR OCCUPANCY SENSOR 'SCHNEIDER ELECTRIC' #SLSCI2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSP1277 (POWER PACK). |
| | LOW VOLTAGE CEILING MOUNT DUAL-TECHNOLOGY OCCUPANCY SENSOR 'SCHNEIDER ELECTRIC' #SLCDT2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSP1277 (POWER PACK). |

COMMUNICATION / SECURITY

| | |
|--|--|
| | TELEPHONE OUTLET BOX AND COVER PLATE |
| | TELEPHONE OUTLET BOX, AND COVER PLATE, PUBLIC |
| | TELEPHONE OUTLET FLOOR BOX WITH COVER PLATE |
| | TELEDATA OUTLET |
| | TELEDATA OUTLET FLOOR BOX WITH COVER PLATE |
| | DATA OUTLET |
| | SPEAKER, FLUSH CEILING MOUNTED |
| | SPEAKER, WALL MOUNTED |
| | SPEAKER HORN TYPE, WALL MOUNTED |
| | SOUND SYSTEM AMPLIFIER |
| | INTERCOMM HANDSET |
| | INTERCOMM MASTER PANEL |
| | INTERCOMM SYSTEM POWER SUPPLY |
| | DEMO: POINT WHERE EXISTING TO REMAIN STOPS AND DEMOLITION BEGINS REVISED: POINT WHERE NEW WORK CONNECTS TO EXISTING TO REMAIN |
| | SECURITY CAMERA (360°) |
| | AUDIO/VISUAL WALL DEVICE |
| | AUDIO/VISUAL WALL DEVICE |

APPLICABLE CODES AND STANDARDS

| | |
|-----------------------|--|
| 29 CFR 1910.144 | SAFETY COLOR CODE FOR MARKING PHYSICAL HAZARDS. |
| 29 CFR 1910.145 | SPECIFICATIONS FOR ACCIDENT PREVENTION SIGNS AND TAGS. |
| ANSI A13.1 | SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS |
| ANSI C80.1 | ELECTRIC RIGID STEEL CONDUIT |
| ANSI C80.3 | ELECTRICAL METALLIC TUBING - STEEL (EMT-S) |
| ANSI C80.5 | ELECTRICAL RIGID METAL CONDUIT - ALUMINUM (ERM-C) |
| ANSI C80.6 | ELECTRICAL INTERMEDIATE METAL CONDUIT |
| ANSI Z535.1 | PRODUCT SAFETY PACKAGE |
| ANSI Z535.5 | SAFETY TAGS AND BARRICADE TAPES (FOR TEMPORARY HAZARDS) |
| ANSI Z535.4 | PRODUCT SAFETY SIGNS AND LABELS |
| ASTM A 36/ A 36M | STANDARD SPECIFICATION FOR CARBON STRUCTURAL STEEL |
| ASTM A 53/ A 53M | STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED, WELDED AND SEAMLESS |
| ASTM A 641/ A 641M | STANDARD SPECIFICATION FOR ZINC-RICH COATED (GALVANIZED) CARBON STEEL WIRE |
| ASTM A 780 | STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS |
| ASTM B3 | STANDARD SPECIFICATION FOR SOFT OR ANNEALED COPPER WIRE |
| ASTM B8 | CONCENTRIC-LAY-STRANDED COPPER CONDUCTORS, HARD, MEDIUM-HARD, OR SOFT |
| ASTM B33 | TIN-COATED SOFT OR ANNEALED COPPER WIRE FOR ELECTRICAL PURPOSES |
| ASTM C 1107 | GROUT |
| AWS D1.1/ D1.1M | STRUCTURAL WELDING CODE-STEEL |
| ASTM D 638 | STANDARD TEST METHOD FOR TENSILE PROPERTIES OF PLASTICS |
| ASTM D 882 | STANDARD TEST METHOD FOR TENSILE PROPERTIES OF THIN PLASTIC SHEETING |
| IEEE C2 | 2017 NATIONAL ELECTRICAL SAFETY CODE(IEC) (NESC(R)) |
| IEEE 344 | SEISMIC QUALIFICATION OF SAFETY RELATED EQUIPMENT FOR CLASS 1E EQUIPMENT |
| MFMA-4 | METAL FRAMING STANDARDS PUBLICATION |
| NECA 1 | STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION PDF |
| NECA 101 | STANDARD FOR INSTALLING STEEL CONDUITS (RIGID, IMC, EMT) |
| NECA 407 | STANDARD FOR INSTALLING AND MAINTAINING PANELBOARDS |
| NEMA AB 1 | MOLDED-CASE CIRCUIT BREAKERS, MOLDED CASE SWITCHES, AND CIRCUIT-BREAKER ENCLOSURES |
| NEMA ICS 2 | INDUSTRIAL CONTROL AND SYSTEMS CONTROLLERS, CONTACTORS AND OVERLOAD RELAYS RATED 600 VOLTS |
| NEMA ICS 5 | CONTROL CIRCUIT AND PILOT DEVICES |
| NEMA ICS 6 | ENCLOSURES |
| NEMA KS 1 | HEAVY DUTY ENCLOSED AND DEAD-FRONT SWITCHES (600 VOLTS MAXIMUM) |
| NEMA FB1 | CONDUIT FITTINGS |
| NEMA LE 4 | RECESSED LUMINAIRES, CEILING COMPATIBILITY |
| NEMA OS 1 | SHEET-STEEL OUTLET BOXES, DEVICE BOXES, COVERS AND BOX SUPPORTS |
| NEMA PB 1 | PANELBOARDS |
| NEMA RN1 | POLYVINYL CHLORIDE (PVC) EXTERNALLY COATED GALVANIZED RIGID STEEL CONDUIT AND INTERMEDIATE METAL CONDUIT |
| NEMA TC2 | ELECTRICAL POLYVINYL CHLORIDE (PVC) CONDUIT |
| NEMA TC3 | POLYVINYL CHLORIDE (PVC) FITTINGS FOR USE WITH RIGID PVC CONDUIT AND TUBING |
| NEMA TC13 | ELECTRICAL NONMETALLIC TUBING (ENT) |
| NEMA WC 70 | POWER CABLES RATED 2000 VOLTS OR LESS FOR THE DISTRIBUTION OF ELECTRICAL ENERGY |
| NEMA WD 1, | GENERAL COLOR REQUIREMENTS FOR WIRING DEVICES |
| NEMA WD 6 | WIRING DEVICES-DIMENSIONAL SPECIFICATIONS |
| NETA MTS | STANDARD FOR MAINTENANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER EQUIPMENT AND SYSTEMS |
| NFPA 70 | NATIONAL ELECTRICAL CODE |
| NFPA 70B | RECOMMENDED PRACTICE FOR ELECTRICAL EQUIPMENT MAINTENANCE |
| NEMA 250 | ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM) |
| SSPC-PA1 | FIELD AND MAINTENANCE COATING OF METALS |
| TIA/ ATIS J-STD-607-A | COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS |
| UL 50 | ENCLOSURES FOR ELECTRICAL EQUIPMENT, NON-ENVIRONMENTAL CONSIDERATIONS |
| UL 94 | STANDARD FOR TESTS FOR FLAMMABILITY OF PLASTIC MATERIALS FOR PARTS IN DEVICES AND APPLIANCES |
| UL 98 | ENCLOSED AND DEAD-FRONT SWITCHES |
| UL 467 | GROUNDING AND BONDING EQUIPMENT |
| UL486A | WIRE CONNECTORS |
| UL486B | UL STANDARD FOR SAFETY WIRE CONNECTORS FOR USE WITH ALUMINUM CONDUCTORS |
| UL 489 | MOLDED-CASE CIRCUIT BREAKERS, MOLDED-CASE SWITCHES, AND CIRCUIT-BREAKER ENCLOSURES |
| UL 514B | CONDUIT, TUBING, AND CABLE FITTINGS |
| UL 514C | STANDARD FOR NONMETALLIC OUTLET BOXES, FLUSH-DEVICE BOXES, AND COVERS |
| UL 886 | UL STANDARD FOR SAFETY OUTLET BOXES AND FITTINGS FOR USE IN HAZARDOUS (CLASSIFIED) LOCATIONS |
| UL 924 | EMERGENCY LIGHTING AND EXIT SIGN REGULATIONS |
| UL 943 | GROUND-FAULT CIRCUIT-INTERRUPTERS |
| UL 969 | STANDARD FOR MARKING AND LABELING SYSTEMS |
| UL1436 | STANDARD FOR OUTLET CIRCUIT TESTERS AND SIMILAR INDICATING DEVICES |
| UL 1660 | LIQUID-TIGHT FLEXIBLE NONMETALLIC CONDUIT |
| UL 1863 | STANDARD FOR COMMUNICATIONS-CIRCUIT ACCESSORIES |

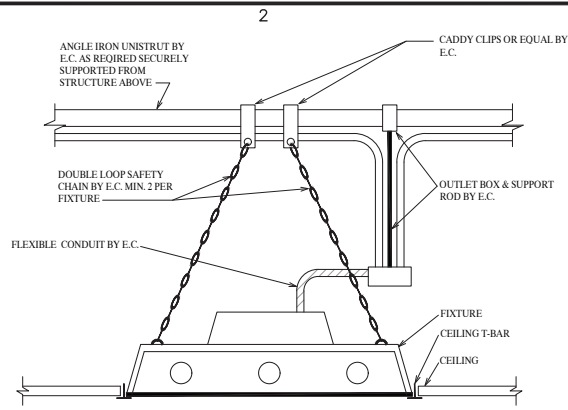
GENERAL NOTES

- INSTALLATION SHALL COMPLY WITH 2009 INDIANA ELECTRIC CODE. ALL ITEMS/ EQUIPMENT INSTALLED EITHER IN PART OR ASSEMBLY SHALL BE UL/ NRTL LISTED PER CODE.
- SUBMIT SUBMITTALS ON ALL EQUIPMENT, DEVICES AND MATERIALS.
- COORDINATE WITH OTHER DISCIPLINES AND OWNER TO VERIFY FINAL LOCATIONS OF DEVICES AND CONNECTIONS.
- SLOPED PIPING HAS RIGHT OF WAY OVER CONDUIT.
- INSTALL PENETRATION FIRESTOPPING AS INDICATED AND REQUIRED.
- HEIGHTS OF SUSPENDED EQUIPMENT SHALL BE TO THE BOTTOM OF THE UNIT.
- HEIGHTS OF WALL MOUNTED EQUIPMENT SHALL BE TO THE CENTER OF THE UNIT.
- IF MOUNTING HEIGHT IS NOT INDICATED, INSTALL AS HIGH AS POSSIBLE.
- INSTALL SLEEVES AS NECESSARY:
 - SLEEVES FOR RACEWAYS AND CABLES SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, ASTM A53/ A53M TYPE E, GRADE B WITH PLAIN ENDS.
 - FOR RECTANGULAR OPENINGS USE GALVANIZED SHEET STEEL WITH A THICKNESS OF 0.052 INCHES FOR OPENINGS SMALLER THAN 50 INCHES IN PERIMETER AND 0.138 INCHES FOR THOSE LARGER.
 - SLEEVES SHALL BE FLUSH WITH WALLS.
 - EXTEND FLOOR SLEEVES 2" ABOVE FINISHED FLOOR LEVEL.
 - IF NECESSARY GROUT SPACE OUTSIDE OF SLEEVE IN CONCRETE AND MASONRY WALLS AND FLOOR.
 - IN NON RATED FIRE WALLS AND FLOORS SEAL ANNUAL SPACE WITH JOINT SEALANT.
 - ALWAYS MAINTAIN FIRE RATING OF ASSEMBLY.
- IF REQUIRED FOR HYDROSTATIC PRESSURE REASONS, INSTALL EPDM SEALING ELEMENTS WITH TWO PLASTIC PRESSURE PLATES AND STAINLESS STEEL CONNECTING BOLTS AND NUTS.
- EXTEND FLOOR SLEEVES 2" ABOVE FINISHED FLOOR.
- MAINTAIN FIRE RATING OF FIRE-RATED ASSEMBLIES.
- SEAL PENETRATION OF INDIVIDUAL RACEWAYS AND CABLES WITH FLEXIBLE BOOT-TYPE FLASHING.

| DRAWING INDEX | |
|---------------|--------------------------------------|
| DRAWING No. | DRAWING TITLE |
| E001 | ELECTRICAL SYMBOLS AND ABBREVIATIONS |
| E002 | ELECTRICAL DETAILS |
| E100 | DEMOLITION FLOOR PLAN ELECTRICAL |
| E200 | LIGHTING PLAN |
| E300 | POWER PLAN |
| E400 | ELECTRICAL PANEL SCHEDULES |
| E500 | ELECTRICAL SPECIFICATIONS |

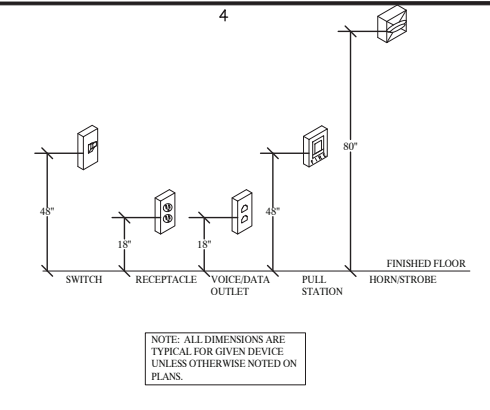
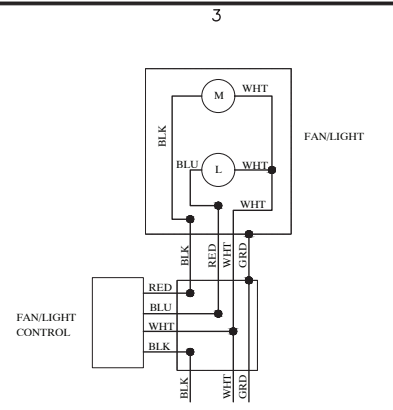
CONDUCTOR INSULATION AND MULTICONDUCTOR SCHEDULE TABLE

| | THHN-THWN | XHHW | MI | NM | MC | UF | AC |
|---------------------------------------|-----------|------|----|----|----|----|----|
| SERVICE ENTRANCE | ● | | | | | | |
| EXPOSED FEEDERS | ● | | | | | | |
| CONCEALED FEEDERS | ● | | | | ● | | ● |
| FEEDERS BELOW CONCRETE | | ● | | | | | |
| FEEDERS UNDERGROUND | | ● | | | | | |
| FEEDERS BELOW RAISED FLOORING | ● | | | | | | |
| FEEDERS IN CABLE TRAY | ● | | | | ● | | ● |
| EXPOSED BRANCH CIRCUITS | ● | | | | | | |
| CONCEALED BRANCH CIRCUITS | ● | | | | ● | | ● |
| BRANCH CIRCUITS BELOW CONCRETE | ● | | | | | | |
| BRANCH CIRCUITS UNDERGROUND | | ● | | | | | |
| BRANCH CIRCUITS BELOW RAISED FLOORING | ● | | | | | | |
| BRANCH CIRCUITS IN CABLE TRAY | ● | | | | | | |
| CLASS 1 CONTROL CIRCUITS | ● | | | | | | |
| CLASS 2 CONTROL CIRCUITS | ● | | | | | | |



NOTE: LIGHTING FIXTURES MUST BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM. UPON WRITTEN REQUEST TO THE ENGINEER, OTHER MEANS OF SUPPORT WILL BE CONSIDERED FOR APPROVAL.

LAY-IN FIXTURES SUPPORT DETAIL
NOT TO SCALE

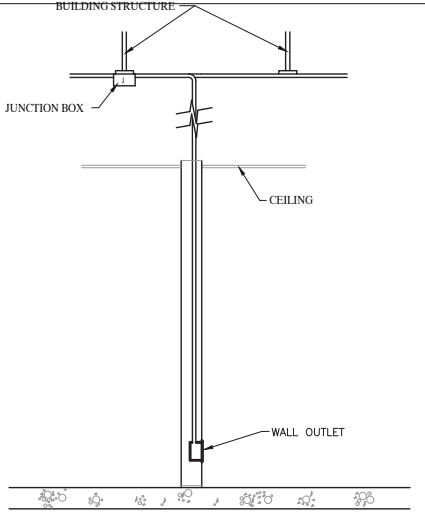


OPERABLE DEVICE MOUNTING HEIGHT DETAIL
NOT TO SCALE

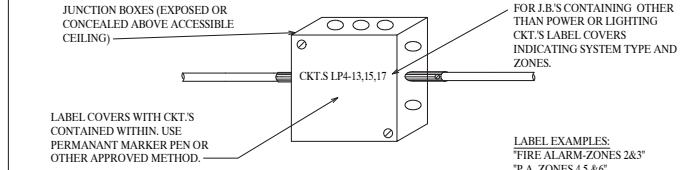
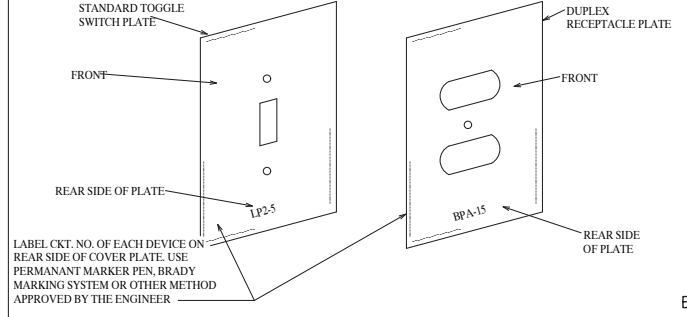
SCHEDULE OF CONDUIT APPLICATIONS

| CONDUIT LOCATION OR APPLICATION | CONDUIT TYPE | | | | | | |
|---|--------------|--------------|--------|----------|------------------------|------------------|------------|
| | RIGID | INTERMEDIATE | E.M.T. | FLEXIBLE | FLEXIBLE W/W.P. JOCKET | P.V.C. SCHED. 40 | A.C. CABLE |
| IN CONCRETE SLAB (NOT LARGER THAN 1") | 3 | | | | | | |
| BELOW LOWEST FLOOR SLAB | 3 | | | | | 2 | |
| CONCEALED IN WALLS, ABOVE CEILING AND IN FURRED SPACES | 3 | | 1 | | | | |
| INSIDE, ABOVE BOTTOM OF ROOF STEEL | | | | | | | 0 |
| FEEDER, POWER AND SIGNAL CIRCUITS RUN EXPOSED | 3 | 3 | | | | | |
| FINAL CONNECTION TO EQUIP. SUBJECT TO VIBRATION | | | | 0 | | | |
| FINAL CONNECTION TO EQUIP. IN DAMP LOCATIONS | | | | 0 | | | |
| SHORT CONNECTIONS WHERE NON-FLEXIBLE CONDUIT IS IMPRACTICAL | | | | 0 | | | |

NOTE:
 0 - TYPE OF CONDUIT TO BE USED.
 1 - E.M.T. SHALL NOT BE USED IN SIZES LARGER THAN 2 INCH.
 2 - CONVERT TO RIGID OR INTER. THROUGH SLAB.
 3 - USE THREADED FITTINGS ONLY.



TYPICAL DETAIL FOR OVERHEAD FEED TO INTERIOR WALL OUTLET
NO SCALE



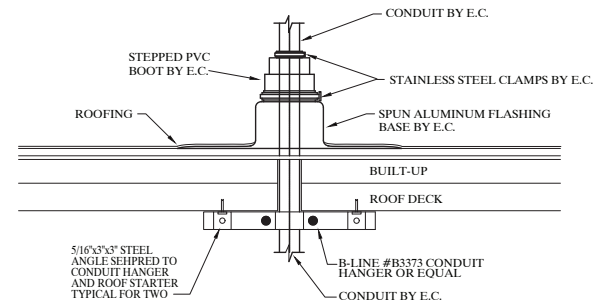
ELECTRICAL IDENTIFICATION DETAIL
NO SCALE

MINIMUM SIZE EQUIPMENT GROUNDING CONDUCTORS FOR GROUNDING RACEWAY AND EQUIPMENT

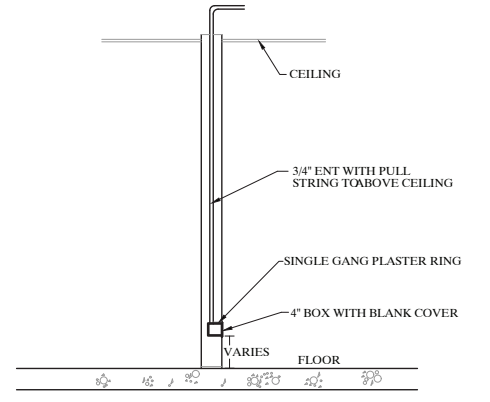
| AUTOMATIC OVER CURRENT SETTING (AMPS - NOT EXCEEDING) | SIZE (AWG OR KCMIL) | |
|---|---------------------|----------------------------------|
| | COOPER | ALUMINUM OR COPPER CLAD ALUMINUM |
| 15 | 14 | 12 |
| 20 | 12 | 10 |
| 30 | 10 | 8 |
| 40 | 8 | 6 |
| 60 | 6 | 4 |
| 100 | 4 | 2 |
| 200 | 3 | 1 |
| 300 | 2 | 1 |
| 400 | 2 | 1 |
| 500 | 1 | 1 |
| 600 | 1 | 1 |
| 800 | 1 | 1 |
| 1000 | 1 | 1 |
| 1200 | 1 | 1 |
| 1600 | 1 | 1 |
| 2000 | 1 | 1 |
| 2500 | 1 | 1 |
| 3000 | 1 | 1 |
| 4000 | 1 | 1 |
| 5000 | 1 | 1 |
| 6000 | 1 | 1 |

CONDUCTOR SIZING FOR RHW, THHW, THW, THWN, XHHW, USE, ZW AT 167F

| SIZE AWG OR KCMIL | COOPER | | ALUMINUM | |
|-------------------|--------|------|----------|------|
| | THW | RHW | THW | THWN |
| 12 | 25 | 20 | 10 | 10 |
| 10 | 35 | 30 | 8 | 8 |
| 8 | 50 | 40 | 6 | 6 |
| 6 | 65 | 50 | 4 | 4 |
| 4 | 85 | 65 | 3 | 3 |
| 3 | 100 | 75 | 2 | 2 |
| 2 | 115 | 90 | 1 | 1 |
| 1 | 150 | 120 | 1 | 1 |
| 1/0 | 190 | 150 | 1 | 1 |
| 2/0 | 240 | 190 | 1 | 1 |
| 3/0 | 300 | 240 | 1 | 1 |
| 4/0 | 375 | 300 | 1 | 1 |
| 250 | 450 | 375 | 1 | 1 |
| 300 | 525 | 450 | 1 | 1 |
| 350 | 600 | 525 | 1 | 1 |
| 400 | 675 | 600 | 1 | 1 |
| 450 | 750 | 675 | 1 | 1 |
| 500 | 825 | 750 | 1 | 1 |
| 600 | 1000 | 900 | 1 | 1 |
| 700 | 1175 | 1050 | 1 | 1 |
| 800 | 1350 | 1200 | 1 | 1 |
| 900 | 1525 | 1350 | 1 | 1 |
| 1000 | 1700 | 1500 | 1 | 1 |
| 1250 | 2125 | 1875 | 1 | 1 |
| 1500 | 2550 | 2250 | 1 | 1 |
| 1750 | 2975 | 2625 | 1 | 1 |
| 2000 | 3400 | 3000 | 1 | 1 |



TYPICAL ROOF PENETRATION
NO SCALE



TYPICAL T.V. OUTLET ROUGH-IN DETAIL
NO SCALE

springpoint ARCHITECTS

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Mechanical, Electrical, & Energy Engineering

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William J. Snodgrass

WILLIAM J. SNODGRASS
REGISTERED
No. 17006
STATE OF INDIANA
PROFESSIONAL ENGINEER

project title

BLOOMINGTON COOPERATIVE LIVING

BLOOMINGTON, IN

410 W. KIRKWOOD AVE

project information

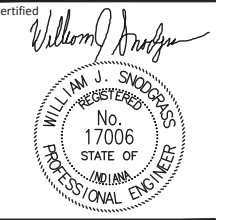
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 PLAN CHANGES 12/19/2022

sheet title

ELECTRICAL DETAILS

sheet number

E002



project title

**BLOOMINGTON
COOPERATIVE LIVING**
410 W. KIRKWOOD AVE
BLOOMINGTON, IN

project information

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PLAN CHANGES 12/19/2022

sheet title

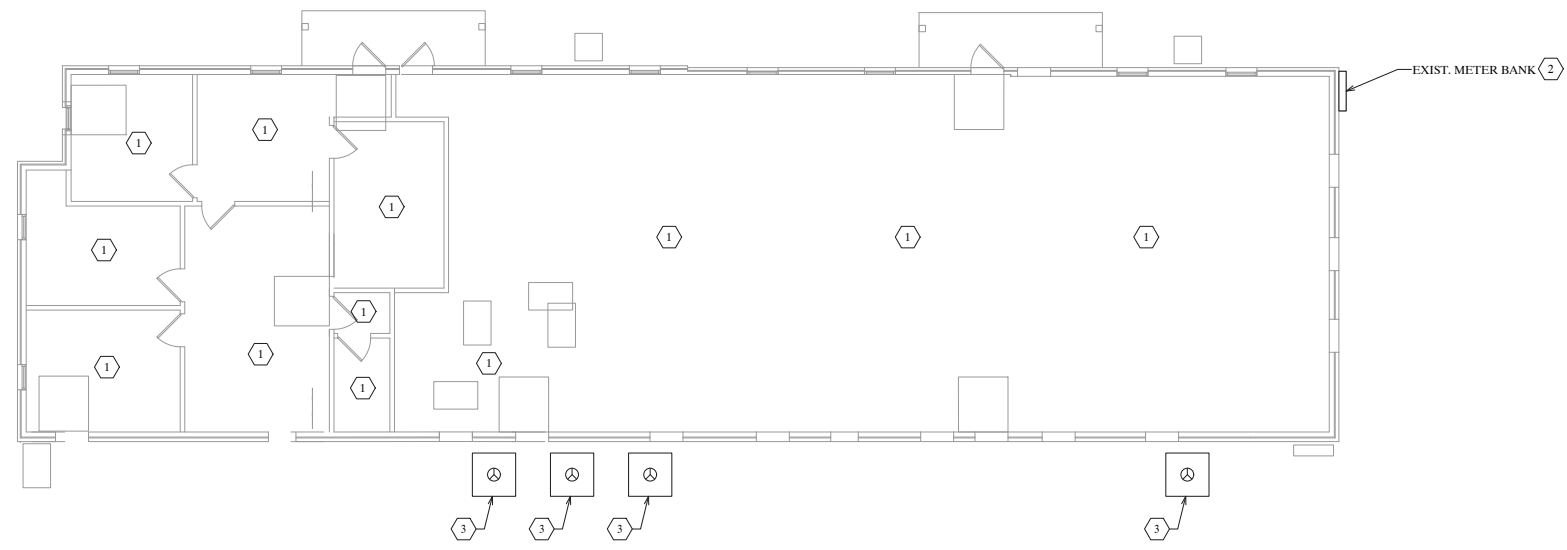
DEMOLITION PLAN ELECTRICAL

sheet number

E100

PLAN NOTES:

1. REMOVE ALL EXISTING LIGHT FIXTURES INCLUDING EXIT AND EMERGENCY LIGHTING. REMOVE ALL ASSOCIATED BRANCH CIRCUIT FEEDERS COMPLETE BACK TO THE PANEL.
2. REMOVE EXISTING METER BANK (TOTAL OF 4-200A METER BASES).
3. DISCONNECT EXISTING CONDENSING UNIT AND ASSOCIATED FURNACE. REMOVE ALL ASSOCIATED DISCONNECTS AND CONTROLS. REMOVE ALL ASSOCIATED BRANCH CIRCUIT FEEDERS COMPLETE BACK TO THE PANEL.



DEMOLITION FLOOR PLAN - ELETRICAL
SCALE: 3/16" = 1'-0"

certified

William J. Snodgrass



project title

BLOOMINGTON, IN

**BLOOMINGTON
COOPERATIVE LIVING**

410 W. KIRKWOOD AVE

project information

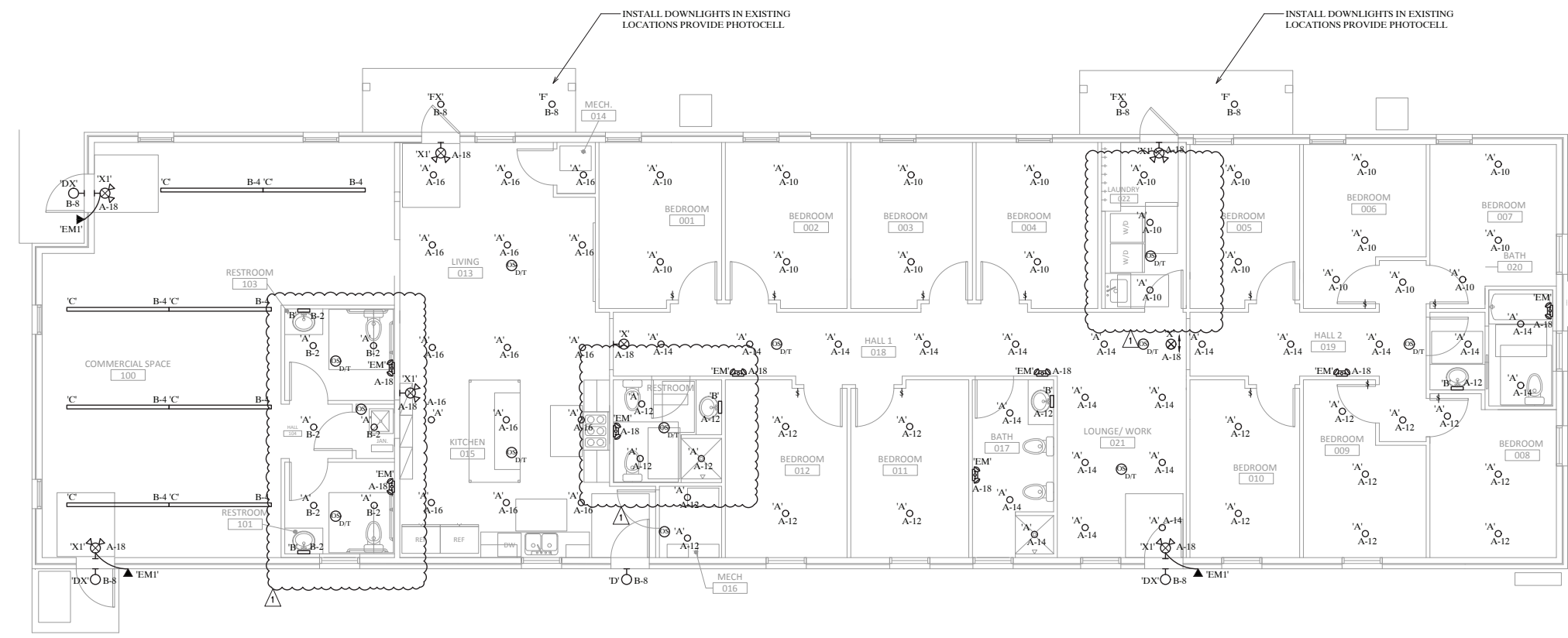
PROJECT NUMBER: 22100
ISSUE DATE: 09/23/2022
REVISION DATE: CBU DETAIL RPZ 11/07/2022
PLAN CHANGES 12/19/2022

sheet title

LIGHTING PLAN

sheet number

E200



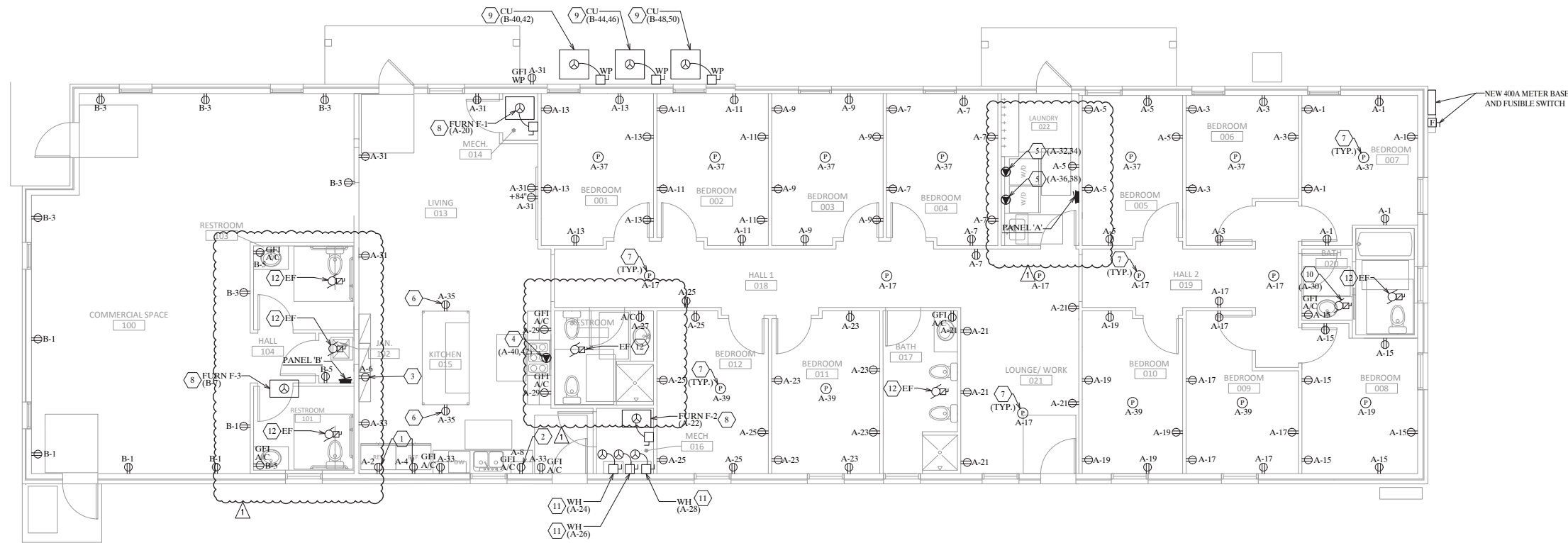
FLOOR PLAN - LIGHTING
SCALE: 3/16" = 1'-0"

GENERAL NOTES:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE, AND SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS.
- B. THE CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT, AND SHALL EXAMINE THE SCOPE OF WORK OF OTHER TRADES PRIOR TO SUBMITTING A BID PROPOSAL.
- C. CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. ANY OFFSETS, ADDITIONAL FITTINGS, AND/OR APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM SHALL BE BORNE BY THE CONTRACTOR.
- D. ALL CIRCUITS OVER 100' IN LENGTH SHALL BE A MINIMUM #10 AWG CONDUCTOR.
- E. WIRING SYSTEM SHALL BE CONDUIT AND WIRE. MINIMUM WIRE SIZE SHALL BE #12 AWG. USE SOLID CONDUCTOR FOR #10 AWG AND SMALLER, USE STRANDED IN LARGER SIZES.
- F. ALL COVER PLATES FOR ELECTRICAL DEVICES SHALL BE OF A COLOR TO MATCH THE AREA COLOR SCHEME AS DIRECTED BY THE OWNER.
- G. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRING, PANELS, LIGHTING, ELECTRICAL DEVICES, SWITCHES AND OTHER COMPONENTS IN COMPLETE COMPLIANCE WITH ALL CURRENT FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- H. INSTALL GROUND WIRE IN ALL FEEDERS AND BRANCH CIRCUITS.
- I. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- J. ALL DEDICATED RECEPTACLES SHALL BE 20 AMP RATED.

PLAN NOTES:

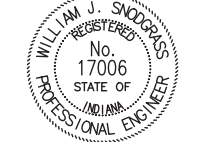
- 1. DEDICATED RECEPTACLE FOR REFRIGERATOR.
- 2. DEDICATED RECEPTACLE FOR MICROWAVE.
- 3. DEDICATED RECEPTACLE FOR DISHWASHER.
- 4. 50A, 208V-1Ø OUTLET FOR ELECTRIC RANGE. INSTALL 2-#8, 1-#8 GND IN A 3/4".
- 5. 30A, 208V-1Ø OUTLET FOR COMBO WASHER/DRYER. INSTALL 2-#10, 1-#10 GND IN A 3/4".
- 6. MOUNT DEVICE ON END OF KITCHEN COUNTER CASEWORK.
- 7. PROVIDE 120V STAND-ALONG SMOKE DETECTOR IN EACH BEDROOM AND IN CORRIDORS.
- 8. 20A, 120V-1Ø CONNECTION FOR GAS FURNACE.
- 9. 40A, 208V-1Ø CONNECTION FOR CONDENSING UNIT. INSTALL 2-#8, 1-#8 GND IN A 3/4".
- 10. 20A, 120V-1Ø MOTOR CONNECTION FOR RECIRC PUMP UNDER SINK.
- 11. 20A, 120V-1Ø CONNECTION FOR GAS WATER HEATER.
- 12. 20A, 120V-1Ø MOTOR CONNECTION FOR EXHAUST FAN. CONNECT TO LIGHTING CIRCUIT IN THIS ROOM AND CONTROL WITH LIGHTS.



FLOOR PLAN - POWER
SCALE: 3/16" = 1'-0"

certified

William J. Snodgrass



project title

BLOOMINGTON COOPERATIVE LIVING
 410 W. KIRKWOOD AVE
 BLOOMINGTON, IN

project information

PROJECT NUMBER: 22100
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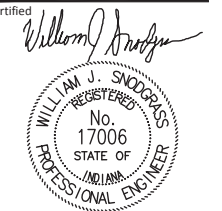
sheet title

POWER PLAN

sheet number

E300

certified



project title

**BLOOMINGTON
COOPERATIVE LIVING**
 410 W. KIRKWOOD AVE
 BLOOMINGTON, IN

project information

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PLAN CHANGES 12/19/2022

sheet title

PANEL SCHEDULES

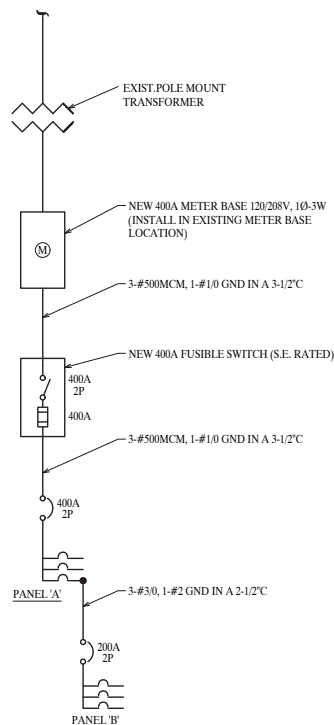
sheet number

E400

| PANEL: 'B' | | VOLTS: 120/208 | | MTG: RECESSED | | PROVIDE: | | |
|----------------|-----------------|----------------|----------|------------------|------|----------|----------------|----------|
| LOCATION: HALL | | AMPS: 200 | | PHASE: 1 | | | | |
| | | CKTS: 42 | | WIRE: 3 | | | | |
| | | LUGS: MCB | | FEED: BOTTOM/TOP | | | | |
| REMARKS | <LOAD> ØA ØB | POLE | CIR. NO. | <LOAD> ØA ØB | POLE | CIR. NO. | REMARKS | |
| RECEPTS | 1.1 | 20 | 1 | 2 | 20 | 0.5 | LIGHTING | |
| RECEPTS | | 1.1 | 20 | 3 | 4 | 20 | 0.7 | LIGHTING |
| RECEPTS | 1.1 | 20 | 5 | 6 | 20 | 0.5 | EXIT/EM LTG | |
| FURN F-3 | 1.0 | 20 | 7 | 8 | 20 | 0.5 | EXTERIOR LTG | |
| SPARE | | 20 | 9 | 10 | 20 | | SPARE | |
| SPARE | | 20 | 11 | 12 | 20 | | SPARE | |
| SPARE | | 20 | 13 | 14 | 20 | | SPARE | |
| SPARE | | 20 | 15 | 16 | 20 | | SPARE | |
| SPARE | | 20 | 17 | 18 | 20 | | SPARE | |
| SPARE | | 20 | 19 | 20 | 20 | | SPARE | |
| SPARE | | 20 | 21 | 22 | 20 | | SPARE | |
| SPARE | | 20 | 23 | 24 | 20 | | SPARE | |
| SPARE | | 20 | 25 | 26 | 20 | | SPARE | |
| SPARE | | 20 | 27 | 28 | 20 | | SPARE | |
| SPARE | | 20 | 29 | 30 | 20 | | SPARE | |
| SPARE | | 20 | 31 | 32 | 20 | | SPARE | |
| SPARE | | 20 | 33 | 34 | 20 | | SPARE | |
| SPARE | | 20 | 35 | 36 | 20 | | SPARE | |
| SPARE | | 20 | 37 | 38 | 20 | | SPARE | |
| SPARE | | 20 | 39 | 40 | 40 | 2.5 | COND. UNIT | |
| SPARE | | 20 | 41 | 42 | 2 | 2.5 | COND. UNIT | |
| | 2.2 | 2.1 | | | 3.5 | 3.7 | 11.5 KVA (55A) | |

| PANEL: 'A' | | VOLTS: 120/208 | | MTG: RECESSED | | PROVIDE: | | |
|--------------------|-----------------|----------------|----------|------------------|------|----------|--------------------|--------------------|
| LOCATION: MUD ROOM | | AMPS: 400 | | PHASE: 1 | | | | |
| | | CKTS: 54 | | WIRE: 3 | | | | |
| | | LUGS: MCB | | FEED: BOTTOM/TOP | | | | |
| REMARKS | <LOAD> ØA ØB | POLE | CIR. NO. | <LOAD> ØA ØB | POLE | CIR. NO. | REMARKS | |
| RECEPTS | 1.1 | 20 | 1 | 2 | 20 | 0.5 | REFRIG | |
| RECEPTS | | 1.1 | 20 | 3 | 4 | 20 | 0.5 | REFRIG |
| RECEPTS | 1.1 | 20 | 5 | 6 | 20 | 1.0 | DISHWASHER | |
| RECEPTS | | 1.1 | 20 | 7 | 8 | 20 | 1.0 | MICROWAVE |
| RECEPTS | 1.1 | 20 | 9 | 10 | 20 | 0.7 | LIGHTING | |
| RECEPTS | | 1.1 | 20 | 11 | 12 | 20 | 0.7 | LIGHTING |
| RECEPTS | 1.1 | 20 | 13 | 14 | 20 | 0.7 | LIGHTING | |
| RECEPTS | | 1.1 | 20 | 15 | 16 | 20 | 0.7 | LIGHTING |
| RECEPTS | 1.1 | 20 | 17 | 18 | 20 | 0.5 | EXIT/EM LTG | |
| RECEPTS | | 1.1 | 20 | 19 | 20 | 20 | 1.0 | FURN F-1 |
| RECEPTS | 1.1 | 20 | 21 | 22 | 20 | 1.0 | FURN F-2 | |
| RECEPTS | | 1.1 | 20 | 23 | 24 | 20 | 0.5 | WATER HEATER |
| RECEPTS | 1.1 | 20 | 25 | 26 | 20 | 0.5 | WATER HEATER | |
| RECEPTS | | 1.1 | 20 | 27 | 28 | 20 | 0.5 | WATER HEATER |
| RECEPTS | 1.1 | 20 | 29 | 30 | 20 | 0.5 | CIRCU PUMP | |
| RECEPTS | | 1.1 | 20 | 31 | 32 | 30 | 1.9 | WASHER/DRYER COMBO |
| RECEPTS | 1.1 | 20 | 33 | 34 | 2 | 1.9 | WASHER/DRYER COMBO | |
| RECEPTS | | 1.1 | 20 | 35 | 36 | 30 | 1.9 | WASHER/DRYER COMBO |
| SMOKE DET. | 0.5 | 20 | 37 | 38 | 2 | 1.9 | WASHER/DRYER COMBO | |
| SMOKE DET. | | 0.5 | 20 | 39 | 40 | 50 | 1.9 | ELEC. RANGE |
| SPARE | | 20 | 41 | 42 | 2 | 1.9 | ELEC. RANGE | |
| SPARE | | 20 | 43 | 44 | 40 | 2.5 | COND. UNIT | |
| SPARE | | 20 | 45 | 46 | 2 | 2.5 | COND. UNIT | |
| SPARE | | 20 | 47 | 48 | 40 | 2.5 | COND. UNIT | |
| SPARE | | 20 | 49 | 50 | 2 | 2.5 | COND. UNIT | |
| SPARE | | 20 | 51 | 52 | 200 | 5.8 | PANEL 'B' | |
| SPARE | | 20 | 53 | 54 | 2 | 5.7 | PANEL 'B' | |
| | 10.4 | 10.4 | | | 21.8 | 21.4 | 64.0KVA (308A) | |

| LIGHT FIXTURE SCHEDULE | | | | | | | |
|------------------------|----------|-------|-------|-------------------|--|--|--|
| TYPE | MOUNTING | LAMPS | WATTS | NOMINAL DIMENSION | MFGR & CAT NO. OR ACCEPTABLE EQUIVALENT | REMARKS | |
| A | SURF | LED | 15 | 7" ROUND | JUNO #JSF-7IN-10LM-30K-90CRI-MVOLT-ZT-WH-M6 | 7" ROUND SURFACE MOUNTED DISK | |
| B | WALL | LED | 18 | 2' | LITHONIA #WL2-18L-EZ1-LP835 | 2' LED OVER-MIRROR LIGHT | |
| C | SUSP | LED | 66 | 8' | LITHONIA #LLS-8000LM-80CRI-35K-EPD-MINIO-EZT-MVOLT-WH | 8' LED PENDANT LINEAR | |
| D | WALL | LED | 24 | - | LITHONIA #WPXO-LED-ALO-SWWZ-MVOLT-PE-DDBXD-M2 (850 LUMENS) | LED EXTERIOR WALL PACK WITH BUILT-IN PHOTOCELL | |
| DX | WALL | LED | 24 | - | LITHONIA #WPXO-LED-ALO-SWWZ-MVOLT-PE-DDBXD-M2 (850 LUMENS) | LED EXTERIOR WALL PACK WITH BUILT-IN PHOTOCELL | |
| EM | WALL | LED | - | - | LITHONIA #ELM6 | LED EMERGENCY WALL PACK | |
| EM1 | WALL | LED | - | - | LITHONIA #ERE | LED EMERGENCY WALL PACK | |
| F | RECESS | LED | 6 | 6" ROUND | LITHONIA #LDN6-35-05-L06-AR-LSS-MVOLT-GZ10 | 6" ROUND LED DOWNLIGHT | |
| FX | RECESS | LED | 6 | 6" ROUND | LITHONIA #LDN6-35-05-L06-AR-LSS-MVOLT-GZ10-EL | 6" ROUND LED DOWNLIGHT WITH EMERGENCY BATTERY PACK | |
| X | UNIV | LED | - | - | LITHONIA #LQM-S-W-3-R-120/277-M6 | LED EXIT LIGHT WITH EMERGENCY BATTERY PACK | |
| X1 | UNIV | LED | - | - | LITHONIA #LQM-LED-R-M6 | LED EXIT/EMERGENCY COMBO UNIT | |



ONE-LINE DIAGRAM
NO SCALE

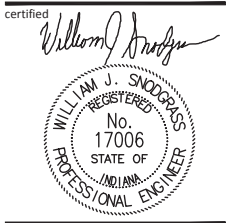
ELECTRICAL SPECIFICATIONS:

1.0 GENERAL

- 1.1 All materials shall be as specified and approved by Underwriters Laboratories.
- 1.2 Provide a complete electrical system conduit system as indicated herein and/or on the drawings. The latest edition of The National Electric Code shall be the Minimum requirement for all work.
- 1.3 Any substitutions to manufacturers of equipment listed in these specifications must be approved in writing by the Owner's Engineer.
- 1.4 E.C. shall submit shop drawings of electrical switchgear to Architect/Engineer for review.
- 1.5 Shop drawings shall include:
 - A. Single line riser diagram of electrical system.
 - B. Completed schedules for all electric panels.
- 1.6 Drawings and Specifications: It shall be the Contractor's duty to examine and have thorough knowledge of the architectural, structural, electrical, mechanical and site work Drawings and Specifications.
 - 1.6.1 The commencement of work under this Section indicated that the Contractor has examined and has knowledge of the architectural, structural, electrical, mechanical and site work Drawings and Specifications. The failure of the Contractor to acquaint himself with all available information shall not relieve him of any responsibility for performing his work properly.
 - 1.6.2 No additional compensation shall be allowed because of conditions that occur due to the Contractor's failure to become thoroughly familiar with all of the Contract Documents for this project, as described above, and with the job site.
 - 1.6.3 It shall be the Contractor's duty to notify the Architect and/or Engineer, in a timely manner, of any discrepancies, errors, omissions, ambiguities, or conflicts which were known or discovered during the course of the preparation of the bid or the conduct of work.
 - 1.6.4 Unless expressly stipulated, no additional allowance will be made in the Contractor's and/or manufacturer's favor by virtue of errors, ambiguities and/or omissions which were known to or which should have been known or discovered during the preparation of the bid estimate and directed to the Architect and \ or Engineer's attention in a timely manner.
 - 1.6.5 The Drawings and Specifications are intended to supplement one another. Any materials or labor called for in one but not the other shall be furnished as if both were mentioned in the Specifications and shown on the Drawings. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the systems, shall be furnished and installed by this Contractor.
 - 1.6.6 The Drawings are diagrammatic and are intended to depict the approximate locations of equipment, piping and apparatus. Dimensions given on the Drawings, in figures, shall take precedence over scaled dimensions. All dimensions, whether in figures or scaled, shall be verified in the field.
 - 1.6.7 The plans show the arrangement of all fixtures, equipment and material and are not intended to show all details. Each and every accessory intended for the purpose of execution of the work is understood to be part of the work.
 - 1.6.8 The location of equipment and pipe, as shown on the Drawings, is diagrammatic and schematic and it is the responsibility of the Contractor to make his own fabrication and installation drawings and layouts to eliminate all structural and other physical interferences without detriment to the structural, mechanical and architectural components of the building. The Contractor must organize the physical arrangement of the systems of material in the confines of the space in order for them to function and perform in accordance with the intent of the design. The Contractor is not responsible for the design performance; he is responsible for the development of installation and fabrication drawings for the installation of his equipment and material within the available spaces.
 - 1.6.9 The Contractor shall carefully verify all measurements at the site, determine the exact location of all chases, openings, plenums and ceiling cavities required by his work and shall furnish and set all sleeves, inserts and hangers as required for the work herein. The Contractor shall verify actual job dimensions before fabrication of any materials, purchasing or installation of equipment.
- 1.7 Space Conditions: It shall be the Contractor's responsibility to verify that all apparatus, gear, fixtures, conduit, etc, shall fit into that available spaces in the building and must be introduced into the building at such times and in such manner as not to cause damage to the structure.

- 1.7.1 Where minor deviations from plans are required in order to conform to space limitations, such changes shall be made by the Contractor at no additional cost to the Owner and shall be subject to the approval of the Architect and/or Engineer.
- 1.7.2 All equipment normally requiring service shall be easily accessible.
- 1.8 Coordination and Conflicts: The Contractor shall coordinate his work so that it does not interfere with the work of other trades. It shall be the Contractor's responsibility to see that his work is installed in a timely manner.
 - 1.8.1 In the event that there is a discrepancy or conflict in the plans or Specifications it shall be the Contractor's responsibility to notify the Architect and/or Engineer of this conflict or discrepancy prior to his acceptance of the project. Unless expressly stipulated, no additional allowance will be made in the Contractor's and/or Manufacturer's favor by virtue of errors, ambiguities and/or omissions which were known to or which should have been known or discovered during the presentation of the bid estimate and directed to the Architect's and/or Engineer's attention in a timely manner.
- 1.9 Guarantee: All equipment shall be started, tested, adjusted and placed in satisfactory operating condition by the Contractor. All equipment shall be covered for the duration of the Manufacturer's guarantee or warranty and the Contractor shall furnish the Owner with all Manufacturer's guarantee warranties.
 - 1.9.1 Guarantee all work, materials and equipment for a period of one (1) year from date of acceptance by the Owner's Engineer. The Guarantee shall include full service adjustments, repairs and replacement parts at no expense to Owner, and to the complete satisfaction of the Owner's Engineer.
 - 1.9.2 The Contractor shall furnish a letter addressed to the owner outlining the year's guarantees and advising that the completed systems have been installed in accordance with Plans and Specifications and that they are in proper operating condition.
- 1.10 Inspection Authority Certificate of Approval shall be furnished the Owner's Engineer before final acceptance will be given.
 - 1.10.1 Provide any inspections and certificates required by local jurisdictional authorities to obtain acceptance of the specified equipment and the installation.
 - 1.11 Submittals: Contractor agrees that Shop Drawing Submittals processed by the Engineer are not Change Orders; that the purpose of Shop Drawing Submittals by the Contractor is to demonstrate to the Engineer that the Contractor understands the design concept, that he demonstrates his understanding by indicating which equipment and materials he intends to furnish and install and by detailing the fabrication and installation methods he intends to use.
 - 1.11.1 The Contractor further agrees that if deviations, discrepancies or conflicts between Shop Drawings and Specification are discovered either prior to or after Shop Drawing Submittals are processed by the Engineer, the design Drawings and Specifications shall control and shall be followed.
 - 1.11.2 Where shop drawings are reviewed, said review does not in any way relieve the Contractor from the responsibility nor the necessity of furnishing material or performing work required by the Contract Drawings and Specifications.
 - 1.11.3 Submittal review is considered as general acceptance of the basic applicability of the equipment. Contractor is responsible for the installation of any substituted equipment within a given space. When the Contractor desires to use substituted equipment, he shall be responsible for producing his own coordinated working drawings which depict the substituted equipment accommodated in the space. Where the substituted equipment creates the need for alterations in any portion of the work depicted in the contract documents, it shall be the Contractor's responsibility to notify all of the affected parties and coordinate these items with all other trades. Further, it shall be the Contractor's responsibility to assume any additional cost to the Contract created by the substituted equipment.
 - 1.11.3.1 Substituted equipment is any equipment which deviates from the equipment specified herein, as the first named manufacturer or the equipment scheduled on the plans.

- 2.0 Service Entrance
 - 2.1 Characteristics - Service shall be as indicated on drawings. See One-Line diagram on Drawings for additional information.
 - 2.2 Provide auxiliary services for exit lights and emergency lighting.
 - 2.3 Grounding - System grounding conductor shall be sized as required by applicable code and run in conduit where exposed in building to the point of water service to building and connected to water service piping.
 - 2.4 Conductors shall be copper with Type THWN insulation.
 - 2.5 Bus duct, when used for service entrance conductors, shall be plated aluminum, complete with suitable vapor barrier and weatherhead.
- 4.0 Panelboards.
 - 4.1 Panels dead front type with cabinets surface mounted (unless otherwise specified) of code thickness with hinged door and trim. Door hinged with concealed hinges and provided with trim clamps and trim angle supports and with flush type combination latches and locks with locks keyed alike. Door shall include a directory frame on face of front panel interior and directory card faced with transparent plastic. All circuits clearly and permanently identified on directory. Boxes fabricated of galvanized steel. No crinkle finishes permitted on trim. Panel back adjustable. Panels factory assembled. Each panel shall contain a minimum of 10% spare circuit breakers. If not otherwise indicated spare circuit breakers shall be 20 amp. single pole.
 - 4.2 Multiple pole breakers must be of common trip type. No tie handles permitted with single pole breakers
- 5.0 Lighting Controller
 - 5.1 Occupancy sensors as shown on plans.
 - 5.2 Contactors shall be electrically held of proper capacity. Contactors shall be wired with a relay furnished by the electrical contractor to properly engage and release the contactor based on one channel switching.
 - 5.3 All outside and work area lighting and circuits shall include time clock and photocell control 'OTC' as shown, with manual spring wound override switch.
- 6.0 Method of Wiring
 - 6.1 Conduit raceways or M.C. cable shall be used for installation of all wiring where indicated on drawings.
 - 6.1.1 Exposed conduit subject to mechanical injury shall be either full weight rigid steel (heavy-wall) type or intermediate metal conduit (I.M.C.) - Any conduits run in the mechanical room or electrical room not concealed in partitions, above finished ceilings or under the floor slab are considered exposed to mechanical injury. Either type shall have galvanized or equal finish. Conduit run exposed and not subject to mechanical injury, concealed above ceiling or in furred spaces may be electrical metallic tubing (E.M.T.) or M.C. cable with galvanized or equal finish Aluminum conduit shall not be used in concrete or masonry, but is permitted for use where exposed and not subject to mechanical injury or where concealed above ceiling or in furred spaces. Conduit joints shall be made with standard conduit couplings, (no running-threads) cadmium plated. Schedule 40 PVC conduit is also permitted for use in masonry or concrete. Any feeder conduits which are PVC must be buried beneath the floor slab - not in the concrete. Any exposed conduit projections out of concrete slab must be changed to rigid steel or I.M.C. at the surface of the slab. Rigid steel or I.M.C. conduit is required in concrete or masonry Construction.
 - 6.1.2 Conduit shall not be smaller than 3/4" nominal trade size, except for switch legs or where expressly noted.
 - 6.1.3 Install all conduits as near bottom chord of joists as practical. All conduits must be securely fastened and adequately supported. Perforated straps will not be permitted. All suspended conduits must be supported on a trapeze using "Unistrut" and bolted hanger construction. Conduits supported using suspended ceiling system (either tee bars or hanger wires) will not be permitted.
 - 6.1.4 All conduit sizing for branch circuits shall be based on the use of Type THW code grade insulation. This method of sizing shall be used regardless of insulation type used in the conduit.
 - 6.1.5 All conduits shall be concealed.
 - 6.1.6 Pull boxes and junction boxes shall be installed where indicated on the drawings or where required to facilitate wire installation.
 - 6.1.7 Cutting of structural concrete or steel to facilitate wiring installation will not be permitted without written approval of the Owner's Engineer.
 - 6.1.8 All exposed conduit shall be run rectilinear with building construction using concentric bends.
 - 6.1.9 Control circuit conduits (w/pull wires) under floor and in ceiling shall be as shown on drawings or as required.



certified
project title
BLOOMINGTON COOPERATIVE LIVING
BLOOMINGTON, IN
410 W. KIRKWOOD AVE

project information

| | |
|-----------------|------------|
| PROJECT NUMBER: | 22100 |
| ISSUE DATE: | 09/23/2022 |
| REVISION DATE: | |
| CBU DETAIL RPZ | 11/07/2022 |
| PLAN CHANGES | 12/19/2022 |

sheet title

ELECTRICAL SPECIFICATIONS

sheet number

E500

August 31, 2023

John Saunders
Chair
Bloomington Historic Preservation
401 N Morton St, Suite 130
Bloomington, IN 47404

Re: Construction of affordable single family homes in a multi-family development at Arlington Heights, Bloomington, Monroe County, Indiana using HOME Funds through the Housing and Urban Development Department

Dear Mr. Saunders,

The City of Bloomington, Indiana is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the City of Bloomington has assumed HUD's environmental review responsibilities for the project, including consulting with interested parties related to historic properties. Historic properties include archeological sites and structures.

City of Bloomington will conduct a review of this project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have local historical significance and to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

To meet project timeframes, if you would like to be a consulting party on this project, can you please let us know of your interest within 30 days? If you have any initial concerns with impacts of the project on religious or cultural properties, can you please note them in your response?

The project consists of the construction of about 40 single house families on undeveloped land near the intersection of I-69 and Indiana West State 45 in Bloomington, Indiana. Two streets have already been built for this development, Denver Road and North Breckenridge Road. These roads connect to N Telluride Street. The project will take place over the next few years with Habitat for Humanity and the Bloomington Housing Authority using a combination of public and private funding to build one house at a time, with each design to be chosen from a catalog. The houses are going to be built slab on grade. Site plans, maps, and photos have been attached.

More information on the Section 106 review process is available at <http://www.onecpd.info/environmental-review/historic-preservation/>.

If you do not wish to consult on this project, no reply to this letter is needed. Thank you very much. We value your assistance and look forward to consulting further if there are historic properties that may be affected by this project.

Sincerely,

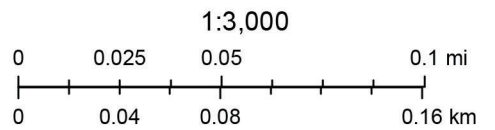
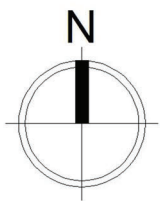
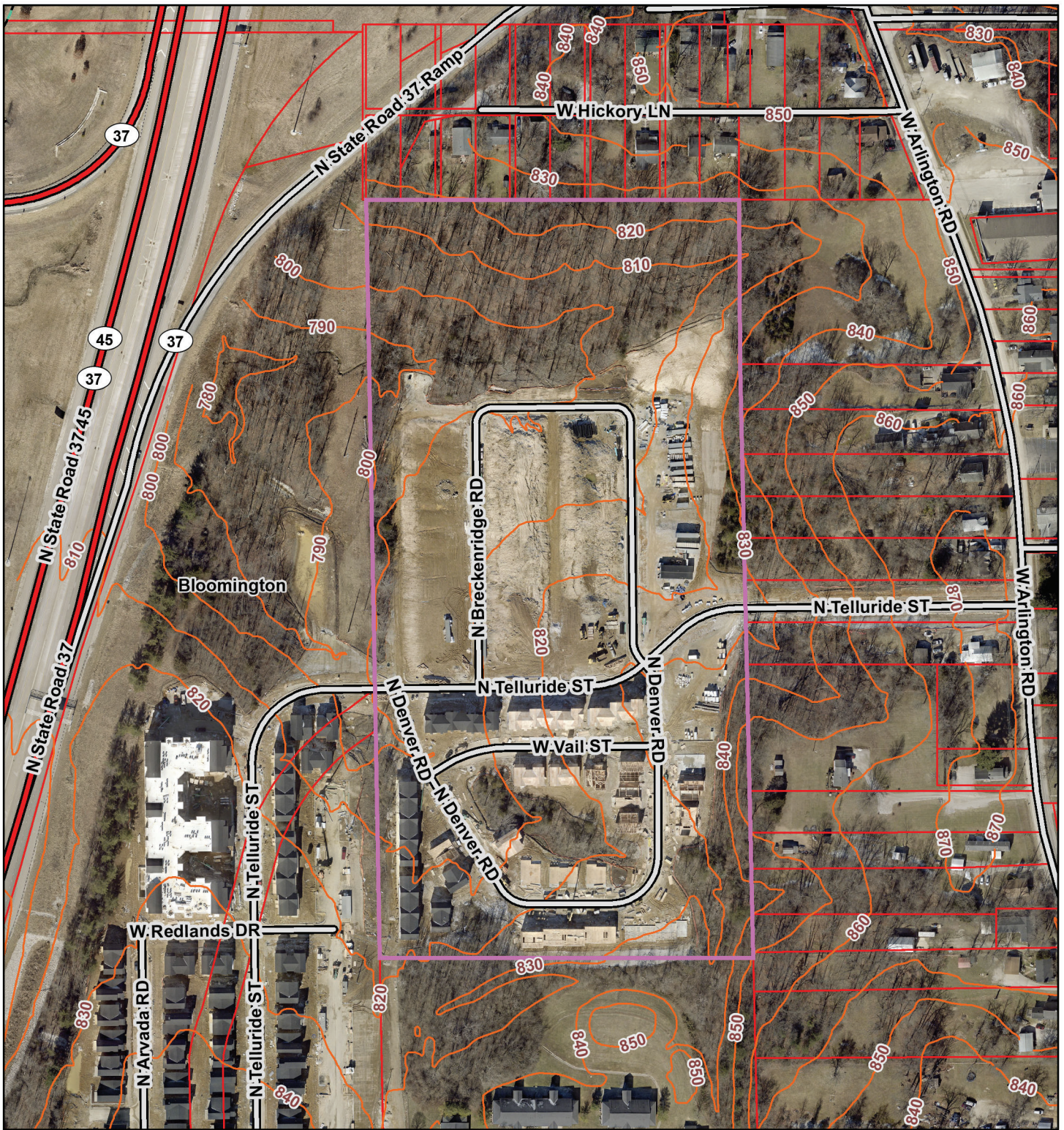


Gloria M. Colom Braña
Historic Preservation Program Manager
City of Bloomington, Indiana

Cc: Department of Historic Preservation and Archeology, Department of Natural Resources,
Indiana

Attachments

Habitat for Humanity - Arlington Place Development



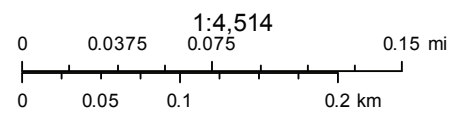
Arlington Place - SHAARD Map



8/30/2023, 4:31:00 PM

County Survey Sites

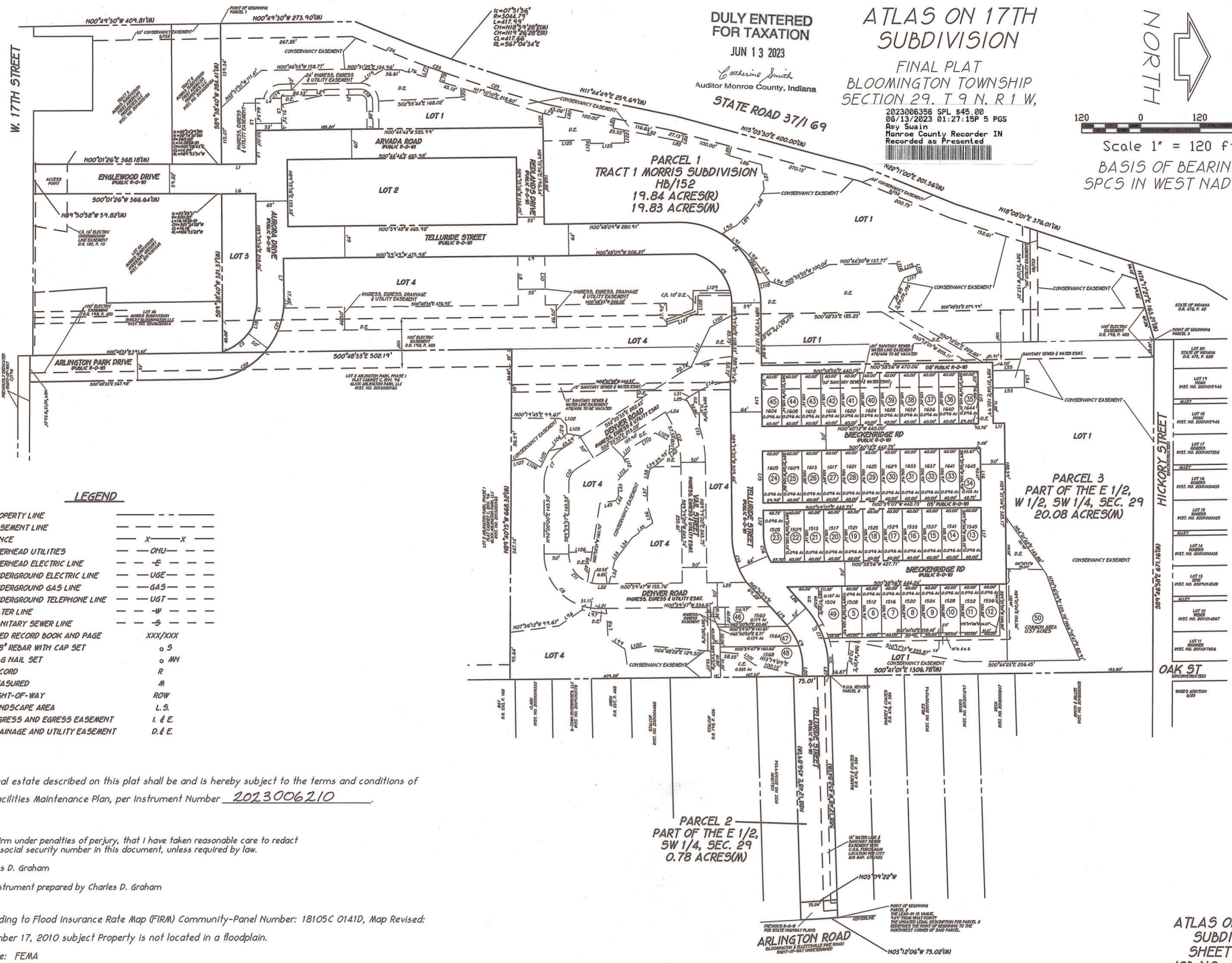
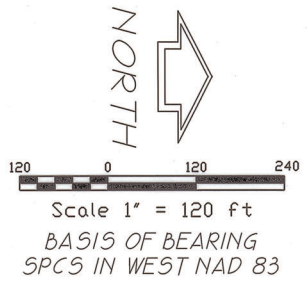
- Contributing



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

DULY ENTERED
FOR TAXATION
JUN 13 2023
Catherine Smith
Auditor Monroe County, Indiana

ATLAS ON 17TH
SUBDIVISION
FINAL PLAT
BLOOMINGTON TOWNSHIP
SECTION 29, T 9 N, R 1 W,
2023006356 SPL \$45.00
05/13/2023 01:27:15P 5 PGS
Ray Swain
Monroe County Recorder IN
Recorded as Presented



LEGEND

| | |
|-------------------------------|---------|
| PROPERTY LINE | --- |
| EASEMENT LINE | --- |
| FENCE | X-X |
| OVERHEAD UTILITIES | OHU |
| OVERHEAD ELECTRIC LINE | -E- |
| UNDERGROUND ELECTRIC LINE | UGE |
| UNDERGROUND GAS LINE | GAS |
| UNDERGROUND TELEPHONE LINE | UGT |
| WATER LINE | -W- |
| SANITARY SEWER LINE | -S- |
| DEED RECORD BOOK AND PAGE | XXX/XXX |
| 5/8" REBAR WITH CAP SET | o S |
| MAG NAIL SET | o NY |
| RECORD | R |
| MEASURED | M |
| RIGHT-OF-WAY | ROW |
| LANDSCAPE AREA | L.S. |
| INGRESS AND EGRESS EASEMENT | I. & E. |
| DRAINAGE AND UTILITY EASEMENT | D. & E. |

The real estate described on this plat shall be and is hereby subject to the terms and conditions of the Facilities Maintenance Plan, per Instrument Number 2023006210.

I affirm under penalties of perjury, that I have taken reasonable care to redact each social security number in this document, unless required by law.

Charles D. Graham
This instrument prepared by Charles D. Graham

According to Flood Insurance Rate Map (FIRM) Community-Panel Number: 18105C 0141D, Map Revised: December 17, 2010 subject Property is not located in a floodplain.
Source: FEMA

PARCEL 2
PART OF THE E 1/2,
SW 1/4, SEC. 29
0.78 ACRES(M)

PARCEL 3
PART OF THE E 1/2,
W 1/2, SW 1/4, SEC. 29
20.08 ACRES(M)

ATLAS ON 17TH
SUBDIVISION
SHEET 1 OF 5
JOB NO. 401334

| NUMBER | DELTA ANGLE | RADIUS | ARC LENGTH | CHORD DIRECTION | CHORD LENGTH |
|--------|-------------|---------|------------|-----------------|--------------|
| C1 | 17°33'55" | 105.00 | 32.19 | N80°30'52"W | 32.06 |
| C3 | 42°07'22" | 110.00 | 80.87 | S59°31'42"E | 79.06 |
| C4 | 87°36'09" | 164.00 | 250.75 | N45°31'16"E | 227.03 |
| C5 | 72°05'24" | 105.00 | 132.11 | S53°16'38"W | 123.57 |
| C6 | 28°15'15" | 225.00 | 110.95 | S17°39'32"E | 109.83 |
| C7 | 57°36'27" | 85.00 | 85.46 | S61°11'47"E | 81.91 |
| C8 | 90°00'02" | 110.00 | 172.79 | N44°59'51"E | 155.56 |
| C9 | 41°18'11" | 125.00 | 93.11 | N68°40'23"E | 88.17 |
| C10 | 57°36'03" | 35.00 | 35.19 | S61°11'35"E | 33.72 |
| C11 | 90°00'02" | 60.00 | 94.25 | N44°59'59"E | 84.85 |
| C12 | 30°53'14" | 185.00 | 99.73 | S73°52'43"W | 98.53 |
| C13 | 30°53'14" | 235.00 | 126.68 | S73°52'43"W | 125.16 |
| C14 | 25°37'21" | 175.00 | 78.26 | N18°47'53"W | 77.61 |
| C15 | 35°25'33" | 166.00 | 102.64 | N73°01'40"E | 101.01 |
| C16 | 29°27'04" | 116.00 | 59.63 | N74°35'49"E | 58.97 |
| C17 | 41°18'11" | 177.00 | 127.59 | N68°40'23"E | 124.85 |
| C18 | 90°00'02" | 25.00 | 39.27 | S44°15'16"W | 35.36 |
| C19 | 70°54'32" | 25.00 | 30.94 | S36°12'00"E | 29.00 |
| C21 | 41°44'24" | 160.01 | 116.57 | S69°49'52"E | 114.01 |
| C23 | 00°33'52" | 3074.79 | 30.30 | N19°25'21"E | 30.30 |
| C24 | 03°06'05" | 3074.79 | 166.44 | N21°15'20"E | 166.42 |
| C25 | 04°05'53" | 3074.79 | 219.92 | N17°05'28"E | 219.87 |

ATLAS ON 17TH
SUBDIVISION
FINAL PLAT
BLOOMINGTON TOWNSHIP
SECTION 29, T 9 N, R 1 W,

2023006356 SPL \$45.00
06/13/2023 01:27:15P 5 PGS
Amy Sualiti
Monroe County Recorder IN
Recorded as Presented

LEGAL DESCRIPTION

Updated Parcel 1:

Tract 1 in Morris Subdivision, as per plat thereof, recorded in Plat book HB 152, in the Office of the Recorder of Monroe County, Indiana, recorded May 12, 1999, more particularly described as follows:
A part of the Southwest Quarter of Section 29, Township 9 North, Range 1 West, Monroe County, Indiana being more particularly described as follows; commencing at the Southwest corner of the aforesaid Quarter section; thence on the West line of said Quarter section North 00 degrees 49 minutes 30 seconds West 409.81 feet to the point of beginning;

Thence continuing North 00 degrees 49 minutes 30 seconds West 273.90 feet to a point on the Easterly right-of-way of State Road No. 37 and the beginning on a non-tangent curve concave northwesterly having a radius of 3044.79 feet to which a radial line bears South 67 degrees 04 minutes 34 seconds East; thence on said curve and right-of-way Northwesterly 417.99 feet through a central angle of 07 degrees 51 minutes 56 seconds; thence North 11 degrees 44 minutes 49 seconds East 259.69 feet; thence North 15 degrees 03 minutes 30 seconds East 400.00 feet; thence North 22 degrees 11 minutes 00 seconds East 201.56 feet; thence North 18 degrees 08 minutes 01 seconds East 376.01 feet; thence leaving said right-of-way North 74 degrees 17 minutes 27 seconds East 163.21 feet; thence South 00 degrees 48 minutes 33 seconds East 1893.54 feet; thence South 89 degrees 38 minutes 40 seconds West 321.37 feet to the beginning of a curve concave southeasterly having a radius of 300.00 feet to which a radial line North 86 degrees 53 minutes 22 seconds West; thence on said curve Southerly 16.16 feet through a central angle of 03 degrees 05 minutes 11 seconds; thence South 00 degrees 01 minutes 26 seconds West 366.64 feet; thence North 89 degrees 50 minutes 58 seconds West 59.82 feet thence North 00 degrees 01 minutes 26 seconds West 368.18 feet to the beginning of a curve concave southeasterly having a radius of 360.00 to which a radial line bears North 89 degrees 53 minutes 34 seconds West; thence on said curve Northwesterly 14.08 feet through a central angle of 02 degrees 14 minutes 34 seconds; thence North 89 degrees 38 minutes 40 seconds East 284.41 feet to the point of beginning, containing 19.83 acres, more or less.

Updated Parcel 2:

A part of the East half of the Southwest Quarter of Section 29, Township 9 North, Range 1 West, Monroe County, Indiana being more particularly described as follows;

Commencing at the Southwest corner of the aforesaid Quarter section; thence on the West line of said Quarter section North 00 degrees 49 minutes 30 seconds West 409.81 feet; thence continuing North 00 degrees 49 minutes 30 seconds West 273.90 feet to a point on the Easterly right-of-way of State Road No. 37 and the beginning on a non-tangent curve concave northwesterly having a radius of 3044.79 feet to which a radial line bears South 67 degrees 04 minutes 34 seconds East; thence on said curve and right-of-way Northwesterly 417.99 feet through a central angle of 07 degrees 51 minutes 56 seconds; thence North 11 degrees 44 minutes 49 seconds East 259.69 feet; thence North 15 degrees 03 minutes 30 seconds East 400.00 feet; thence North 22 degrees 11 minutes 00 seconds East 201.56 feet; thence North 18 degrees 08 minutes 01 seconds East 376.01 feet; thence leaving said right-of-way North 74 degrees 17 minutes 27 seconds East 163.21 feet to the southwest corner of the plat of Chandlersville as shown by the plat recorded in Plat Cabinet B, Envelope 23 in the office of the Recorder of Monroe County, Indiana; thence on and along the south line of said plat South 89 degrees 46 minutes 58 seconds East 671.16 feet; thence leaving said south line South 00 degrees 41 minutes 01 seconds East 655.22 feet and the Point of beginning;

Thence continuing South 00 degrees 41 minutes 01 seconds East 75.01 feet; thence North 88 degrees 12 minutes 48 seconds East 456.89 feet to the west right-of-way line of Arlington Road; thence on said right-of-way line North 03 degrees 09 minutes 22 seconds West 75.04 feet; thence leaving said right-of-way South 88 degrees 12 minutes 48 seconds West 452.84 feet to the point of beginning, containing within said bounds 0.78 acres, more or less.

Updated Parcel 3:

A part of the East half of the west half of the Southwest Quarter of Section 29, Township 9 North, Range 1 West, Monroe County, Indiana being more particularly described as follows;

Commencing at the Southwest corner of the aforesaid Quarter section; thence on the West line of said Quarter section North 00 degrees 49 minutes 30 seconds West 409.81 feet; thence continuing North 00 degrees 49 minutes 30 seconds West 273.90 feet to a point on the Easterly right-of-way of State Road No. 37 and the beginning on a non-tangent curve concave northwesterly having a radius of 3044.79 feet to which a radial line bears South 67 degrees 04 minutes 34 seconds East; thence on said curve and right-of-way Northwesterly 417.99 feet through a central angle of 07 degrees 51 minutes 56 seconds; thence North 11 degrees 44 minutes 49 seconds East 259.69 feet; thence North 15 degrees 03 minutes 30 seconds East 400.00 feet; thence North 22 degrees 11 minutes 00 seconds East 201.56 feet; thence North 18 degrees 08 minutes 01 seconds East 376.01 feet; thence leaving said right-of-way North 74 degrees 17 minutes 27 seconds East 163.21 feet to the southwest corner of the plat of Chandlersville as shown by the plat recorded in Plat Cabinet B, Envelope 23 in the office of the Recorder of Monroe County, Indiana and the Point of beginning;

Thence on and along the south line of said plat South 89 degrees 46 minutes 58 seconds East 671.16 feet; thence leaving said south line South 00 degrees 41 minutes 01 seconds East 1306.78 feet to the north line of Lot 2 Arlington Park Phase 1 as shown by the plat recorded in Plat Cabinet C, Envelope 96, in said office of the Recorder; thence on and along said north line North 89 degrees 40 minutes 15 seconds West 668.32 feet; thence leaving said north line North 00 degrees 48 minutes 33 seconds West 1305.52 feet to the point of beginning, containing within said bounds 20.08 acres, more or less.



PROJECT
LOCATION

LOCATION MAP

| NUMBER | DIRECTION | DISTANCE | NUMBER | DIRECTION | DISTANCE |
|--------|-------------|----------|--------|-------------|----------|
| L1 | N00°44'44"W | 70.93' | L88 | S57°02'05"E | 50.85' |
| L2 | S89°16'54"W | 37.64' | L89 | S45°59'07"E | 39.40' |
| L3 | S89°12'10"W | 94.57' | L90 | S29°46'33"E | 33.62' |
| L4 | N00°47'50"W | 53.00' | L91 | N39°00'13"E | 59.67' |
| L5 | N89°12'10"E | 64.59' | L92 | N45°15'59"E | 33.34' |
| L6 | N00°44'44"W | 69.34' | L93 | N54°10'59"E | 44.56' |
| L7 | N89°15'16"E | 83.03' | L94 | N17°42'59"E | 31.85' |
| L8 | N89°15'16"E | 99.26' | L96 | N34°20'58"W | 57.39' |
| L9 | N00°26'53"W | 55.00' | L97 | N28°24'02"E | 50.78' |
| L10 | S89°15'16"W | 98.92' | L98 | N87°11'42"E | 49.78' |
| L11 | N00°40'46"W | 22.83' | L99 | N32°15'44"E | 43.82' |
| L12 | S89°20'29"W | 48.11' | L100 | N10°39'35"W | 43.96' |
| L13 | S89°20'29"W | 104.85' | L101 | N35°27'18"E | 39.59' |
| L14 | S89°19'20"W | 105.16' | L102 | N46°21'01"E | 17.90' |
| L15 | N89°20'53"E | 105.00' | L103 | N85°41'20"E | 17.51' |
| L16 | N89°21'04"E | 104.99' | L104 | S43°21'00"E | 50.69' |
| L17 | N89°21'04"E | 105.16' | L105 | S63°00'29"E | 37.46' |
| L18 | S79°34'14"E | 21.46' | L106 | S29°44'55"W | 36.18' |
| L19 | N48°01'18"E | 50.38' | L107 | S10°14'59"E | 29.03' |
| L20 | N89°19'29"E | 21.40' | L108 | N85°52'47"W | 25.95' |
| L21 | N00°00'02"W | 15.22' | L109 | S28°49'23"W | 34.17' |
| L22 | N00°00'02"W | 14.93' | L110 | S31°17'10"E | 47.65' |
| L23 | N00°39'47"W | 80.67' | L111 | S44°59'24"E | 34.28' |
| L24 | S58°26'07"W | 8.22' | L112 | N68°23'36"E | 26.64' |
| L25 | S58°26'07"W | 8.95' | L113 | S46°23'35"E | 50.02' |
| L26 | N48°01'18"E | 57.82' | L114 | N78°28'26"E | 16.70' |
| L27 | N89°19'29"E | 21.39' | L115 | N18°00'55"W | 34.79' |
| L28 | S89°15'16"W | 56.39' | L116 | N71°59'05"E | 15.00' |
| L29 | S00°44'44"W | 160.25' | L117 | S18°00'55"E | 28.82' |
| L31 | S32°23'33"E | 19.39' | L118 | N13°41'59"W | 23.99' |
| L76 | N15°08'03"E | 51.92' | L119 | N30°21'59"W | 53.72' |
| L77 | N72°53'45"W | 20.90' | L120 | N88°44'11"E | 19.01' |
| L78 | S71°48'47"E | 19.72' | L121 | S87°16'18"W | 28.46' |
| L79 | N17°30'25"E | 46.56' | L122 | N88°44'11"E | 25.66' |
| L80 | N78°15'11"W | 19.58' | L123 | S01°15'49"E | 70.06' |
| L81 | S78°15'11"E | 19.40' | L124 | S88°44'11"W | 7.46' |
| L82 | N11°11'39"E | 126.54' | L125 | S01°15'49"E | 95.34' |
| L83 | N15°30'02"E | 16.19' | L126 | N00°14'37"W | 47.51' |
| L84 | N74°56'30"W | 17.70' | L127 | N20°01'10"W | 61.62' |
| L85 | S74°56'30"E | 18.47' | L128 | N89°12'22"W | 37.56' |
| L86 | N15°45'41"E | 68.32' | L129 | N00°10'10"W | 71.47' |
| L87 | N84°01'21"E | 51.79' | L130 | S29°11'25"E | 50.64' |
| | | | L131 | S64°04'08"E | 90.47' |

Statement of Plat Location, Tract 1 of Morris Subdivision is approved

Scott Robinson 6/12/2023
Scott Robinson, Director Date

Easements to be vacated per this plat:

- 60' Roadway and Utility Easement recorded in HB 152 in the office of the Recorder of Monroe County, IN, as granted in that certain Warranty Deed from James T. Morris and Donetta S. Morris, husband and wife, to James T. Morris, as Trustee under the James T. Morris Revocable Trust Agreement dated October 25, 1999, an undivided 50% interest and Donetta S. Morris, as Trustee under the Donetta S. Morris Revocable Trust Agreement dated October 25, 1999 an undivided 50%, dated February 11, 2000 and recorded February 15, 2000 as Document No. 2000002353.
- All that portion of a certain easement that is located on the subject property, more defined as follows: 20' & 15' Waterline and Sanitary Sewer Easement record in Deed book 478, Page 426 in the office of the Recorder of Monroe County, IN.

These easements are being vacated at the request of the property owners and with consent and approval of City of Bloomington Utilities.

Approved by the City of Bloomington Utilities June 5, 2023

Victor A. Kelson
Signature Position
Victor A. Kelson
Name Printed

I certify that I am a Registered Land Surveyor licensed under the laws of Indiana; that this plat accurately represents a survey made by me on October 22, 2020, and that the monuments shown on it exist; and that their locations, sizes, types, and materials are accurately shown.

Charles D. Graham
Charles D. Graham
Indiana L.S. 29500014
Bynum Fanyo & Associates, Inc.
528 North Walnut Street
Bloomington, Indiana 47404-3804
812-332-8030





Arlington Park
Photo 1
Site Visit August 15, 2023 View from the north to the south.



Arlington Park
Photo 2
Site Visit August 15, 2023 View standing on the north and looking towards the west.



Arlington Park
Photo 3
Site Visit August 15, 2023 View standing on the north and looking towards the north east



Arlington Park

Photo 4

Site Visit August 15, 2023 View standing on the middle south side of the lot and looking towards the north.





Arlington Park
Photo 5
Site Visit August 15, 2023 View standing on the south and looking eastward.



HABITAT FOR HUMANITY OF MONROE COUNTY OSAGE PLACE

2-BEDROOM HOUSE - FRONT FACING GABLE

AUGUST 2, 2021

DRAWING INDEX

| | |
|-------|---|
| COVER | DRAWING INDEX |
| S101 | FOUNDATION PLAN & FRAMING PLAN |
| A101 | FLOOR PLAN & ROOF PLAN |
| A201 | EXTERIOR ELEVATIONS |
| A501 | INTERIOR ELEVATIONS, WALL SECTION, AND DETAIL |
| E101 | LIGHTING PLAN & POWER PLAN |

DRAWING REVISIONS

| VERSION | DATE | DESCRIPTION |
|---------|------------|---|
| 1 | 08.28.2021 | REVISIONS: TO UPDATE PORCH FOUND. DIMS. AND ADD DETAILS; ADD PANTRY TO REAR ENTRY PLAN OPTION; CHANGE TO IN-SWING EXTERIOR DOORS; RAISE PORCH BEAM BRG.; ADD REAR ENTRY ELEC. & POWER PLANS |

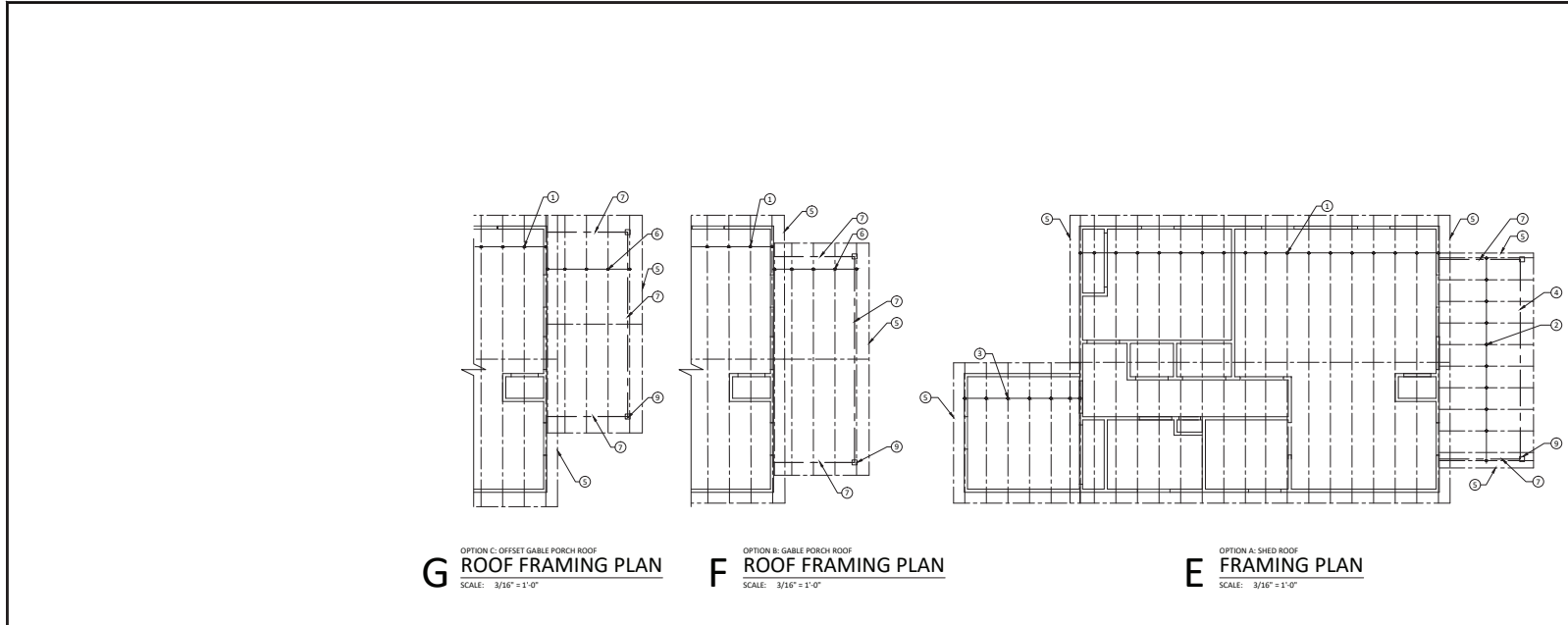
ARCHITECT

springpoint
ARCHITECTS

SPRINGPOINT ARCHITECTS PC
213 SOUTH ROGERS STREET, SUITE 5
BLOOMINGTON, INDIANA 47404
812.318.2930
WWW.SPRINGPOINTARCHITECTS.COM

STRUCTURAL ENGINEER

KEVIN POTTER, P.E.
P.O. BOX 5563
BLOOMINGTON, INDIANA 47407
812.331.7981



G OPTION C: OFFSET GABLE PORCH ROOF
ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"

F OPTION B: GABLE PORCH ROOF
ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"

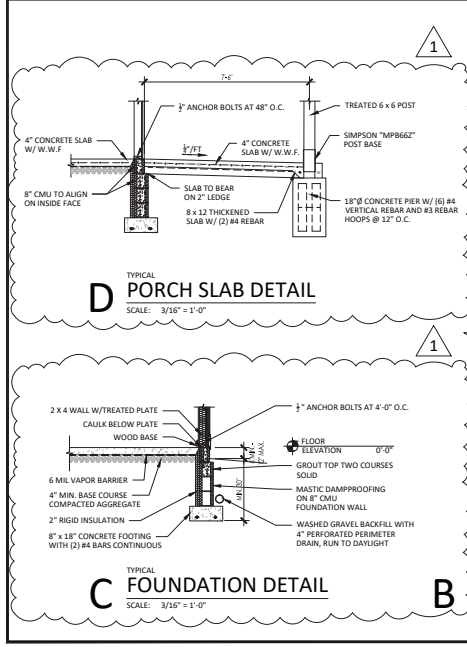
E OPTION A: SHED ROOF
FRAMING PLAN
 SCALE: 3/16" = 1'-0"

STRUCTURAL GENERAL NOTES

- A. ROOF TRUSS DESIGN CRITERIA:
 20 PSF LL TOP CHORD
 10 PSF DL TOP CHORD
 10 PSF DL BOTTOM CHORD
 40 PSF TOTAL LL & DL

FRAMING KEY NOTES

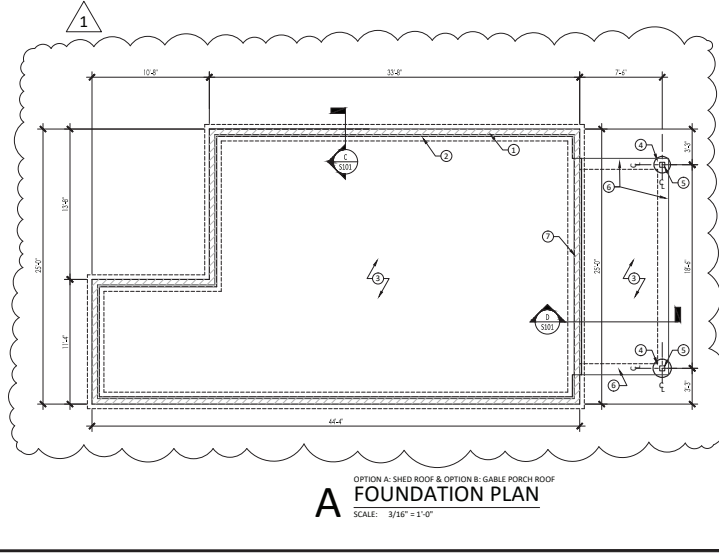
- ① PRE-ENGINEERED GABLE TRUSS AT 24" O.C. WITH HEEL, TYPICAL, REFERENCE F/AS01
- ② PRE-ENGINEERED MONOSLOPE PORCH TRUSS AT 24" O.C., TYPICAL
- ③ PRE-ENGINEERED GABLE TRUSS AT 24" O.C., TYPICAL
- ④ 5-1/2" X 9-1/2" LVL, ATTACH TO POST W/ SIMPSON HUC610 HANGER
- ⑤ 2 X 6 FLY RAFTER
- ⑥ PRE-ENGINEERED GABLE PORCH TRUSS AT 24" O.C., TYPICAL
- ⑦ (2) 3-3/4" X 9-1/2" LVL, ATTACH TO POST W/ SIMPSON HUSC410 HANGER
- ⑧ (3) 2 X 10, ATTACH TO POST W/ SIMPSON HUC 26-3 HANGER
- ⑨ 6 X 6 POST, TREATED, TYPICAL



D TYPICAL PORCH SLAB DETAIL
 SCALE: 3/16" = 1'-0"

C TYPICAL FOUNDATION DETAIL
 SCALE: 3/16" = 1'-0"

B OPTION C: OFFSET GABLE PORCH ROOF
FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"



A OPTION A: SHED ROOF & OPTION B: GABLE PORCH ROOF
FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"

FOUNDATION GENERAL NOTES

- A. TOP OF SLAB ELEVATION TO BE 6" MIN. TO 12" MAX. OF FINAL GRADE.

FOUNDATION KEY NOTES

- ① 6" CMU TOP COURSE ON 8" CMU FOUNDATION WALL, ALIGN BLOCK AT OUTSIDE FACE, TYPICAL, REF. DETAIL C/S101
- ② 8" X 18" CONCRETE FOOTING W/ (2) #4 BARS, CONT., TYP.
- ③ 4" CONCRETE SLAB W/ 6 X 6 W1.4x W1.4 WIRE FABRIC, OVER 6-MIL VAPOR BARRIER, MIN. 4" COMPACTED No. 53 GRANULAR FILL
- ④ 18" DIA. SONOTUBE FOUNDATION
- ⑤ SIMPSON MPR662 POST BASE
- ⑥ 8" X 12" THICKENED SLAB W/ (2) #4 REBAR
- ⑦ SHIFT 8" CMU TO PROVIDE LEDGE FOR CONCRETE PORCH SLAB

PROJECT NUMBER: 19-43
 ISSUE DATE: 08.02.21
 REVISION DATE: 08.28.21



certified

project title

HABITAT FOR HUMANITY OF MONROE COUNTY
OSAGE PLACE
2-BEDROOM HOUSE
 INDIANA
 BLOOMINGTON

project information

PROJECT NUMBER: 19-43
 ISSUE DATE: 08.02.21
 REVISION DATE: 08.28.21

sheet title

FOUNDATION PLAN
 FRAMING PLAN

sheet number

S101



certified

project title

HABITAT FOR HUMANITY OF MONROE COUNTY
**OSAGE PLACE
2-BEDROOM HOUSE**
INDIANA
BLOOMINGTON

project information

PROJECT NUMBER: 19-43
ISSUE DATE: 08.02.21
REVISION DATE: 08.28.21

sheet title

FLOOR PLANS
ROOF PLAN

sheet number

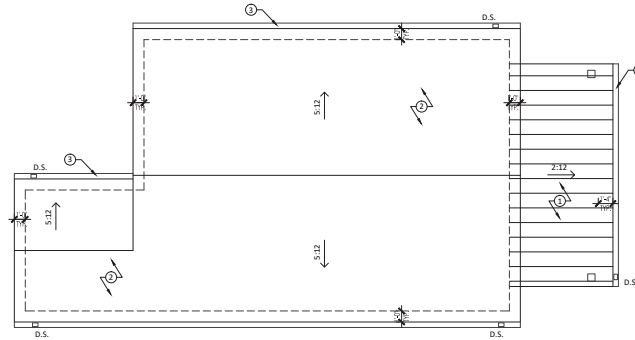
A101

GENERAL ROOF NOTES

- A. PROVIDE SELF ADHERED UNDERLAYMENT AT ALL EAVES, VALLEYS AND ROOF PENETRATIONS AS PER MANUFACTURER'S REQUIREMENTS.
- B. PAINT ROOF PENETRATIONS TO MATCH ROOF COLOR.

ROOF KEY NOTES

- ① STANDING SEAM METAL ROOF SYSTEM
- ② ASPHALT SHINGLES OVER 15# UNDERLAYMENT FELT, 2" OSB DECKING WITH H-CLIPS
- ③ 5" PREFINISHED ALUMINUM GUTTER WITH 4" DOWNSPOUT, TIED INTO PVC BOOT, TIED INTO STORM DRAIN



C ROOF PLAN
SCALE: 3/16" = 1'-0"

GENERAL PLAN NOTES

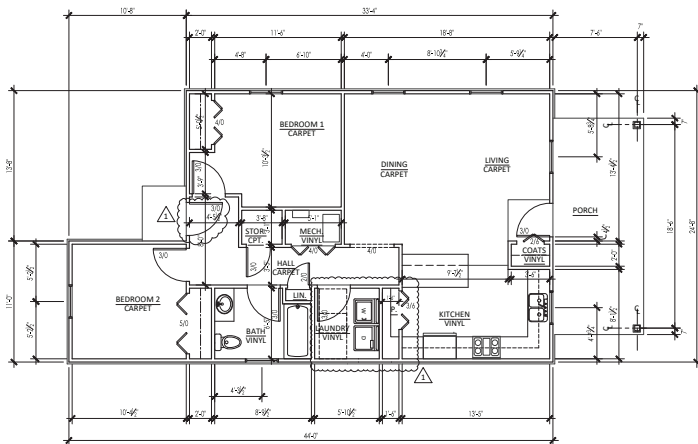
- A. EXTERIOR WALLS TO BE 2 x 4 WOOD STUDS AT 16" O.C. WITH R-13 BATT INSULATION, 2" OSB, 1" INSULATION BOARD, AIR INFILTRATION BARRIER AND VINYL SIDING SYSTEM. 2" GYPSUM WALLBOARD AT INTERIOR SIDE, PAINTED.
- B. INTERIOR WALLS TO BE 2x4 WOOD STUDS AT 16" O.C. WITH 2" GYPSUM BOARD BOTH SIDES, PAINTED.
- C. PROVIDE SOUND ATTENUATION BATTS IN BATHROOM WALLS.
- D. PROVIDE BLOCKING FOR CABINETS, TOILET ACCESSORIES, HANDRAILS, ETC.
- E. CEILING TO RECEIVE LIGHT KNOCKDOWN FINISH.
- F. WINDOW SIZES:
 - (A) 3' x 5' WINDOW
 - (B) 3' x 3'-3" WINDOW
 - (C) 2' x 3' WINDOW, TEMPERED GLASS

PLAN KEY NOTES

- ① RETURN AIR LOUVER IN WALL
- ② WINDOW TO BE CENTERED OVER KITCHEN SINK
- ③ 2x4 STUD WALL WITH 2" FIRE-RATED GYPSUM BOARD, FIRE-TAPED, INSULATE WALLS ADJACENT TO LIVING SPACES
- ④ CASING OPENING
- ⑤ 4" CONCRETE PORCH SLAB
- ⑥ EDGE OF FOUNDATION WALL BELOW, TYPICAL

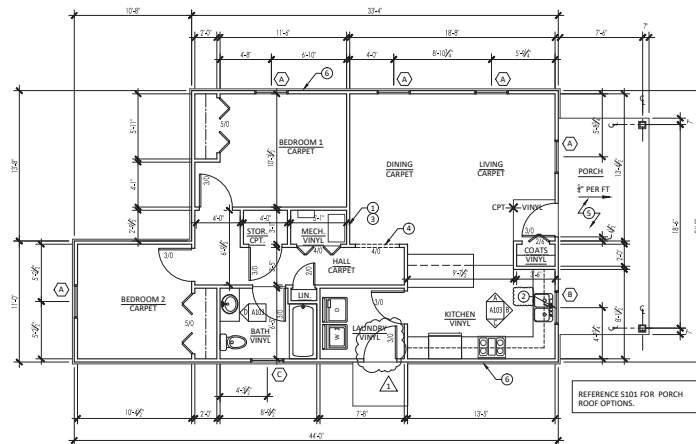
LEGEND

- ▬ NEW 2x4 WALL @ 16" O.C., U.N.O.
- ◡ NEW DOOR



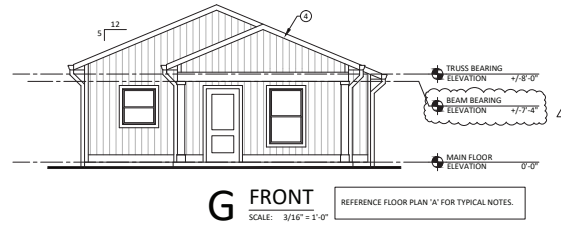
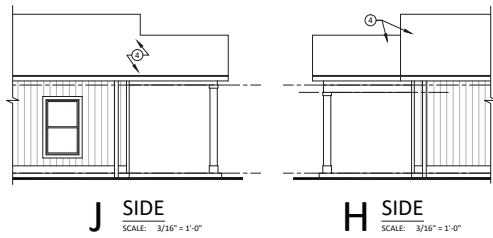
B FLOOR PLAN
REAR ENTRY - 940 SF
SCALE: 3/16" = 1'-0"

REFERENCE FLOOR PLAN 'A' FOR TYPICAL NOTES.

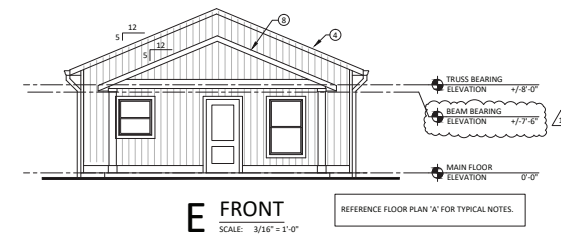
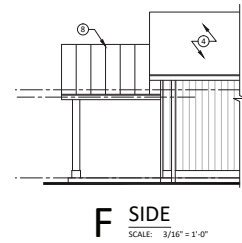


A FLOOR PLAN
SIDE ENTRY - 940 SF
SCALE: 3/16" = 1'-0"

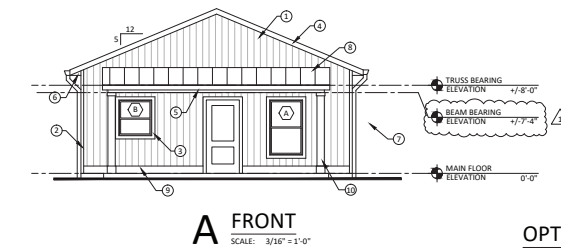
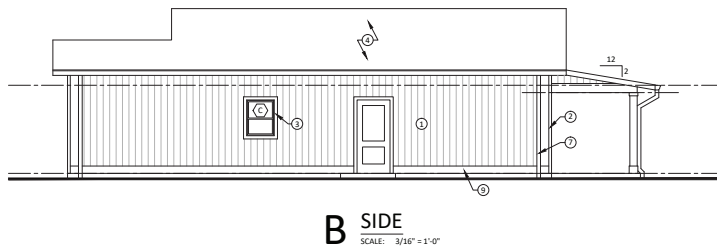
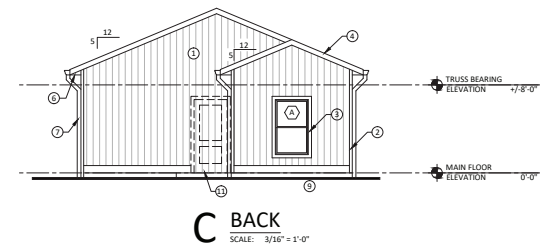
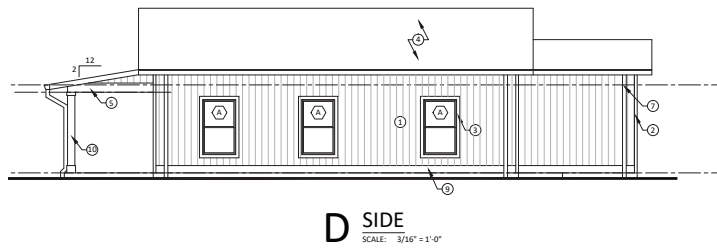
REFERENCE S201 FOR PORCH ROOF OPTIONS.



OPTION C
OFFSET GABLE PORCH ROOF



OPTION B
GABLE PORCH ROOF



OPTION A
SHED PORCH ROOF

ELEVATION GENERAL NOTES

- A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT.
- B. COORDINATE WORK OF OTHER TRADES WITH YOUR TRADE BEFORE STARTING ANY CONSTRUCTION.

ELEVATION KEY NOTES

- ① SINGLE 8" VERTICAL BOARD & BATTEN VINYL SIDING SYSTEM
- ② VINYL CORNER TRIM
- ③ 3" VINYL WINDOW TRIM
- ④ ASPHALT SHINGLES OVER 15# UNDERLAYMENT FELT ON 1/2" OSB DECKING WITH H-CLIPS
- ⑤ SOLID SOFFIT ON PORCHES AND RAKES
- ⑥ VENTED SOFFIT ON HORIZONTAL LEAVES
- ⑦ 5" GUTTER AND 4" DOWNSPOUT, TIE INTO BOOT FOR BELOW GRADE STORM LINE
- ⑧ STANDING SEAM METAL ROOFING SYSTEM
- ⑨ 7 1/2" VINYL BAND BOARD
- ⑩ 8x8 POST FIN. DIM. WITH 1 x 8 BASE TRIM AND 1 x 4 TOP TRIM
- ⑪ ALTERNATE DOOR LOCATION



certified

project title

HABITAT FOR HUMANITY OF MONROE COUNTY
OSAGE PLACE
2-BEDROOM HOUSE

INDIANA

BLOOMINGTON

project information

PROJECT NUMBER: 19-43
ISSUE DATE: 08.02.21
REVISION DATE: 08.28.21

sheet title

FRONT FACING GABLE
EXTERIOR ELEVATIONS

sheet number

A201



certified

project title

HABITAT FOR HUMANITY OF MONROE COUNTY
**OSAGE PLACE
2-BEDROOM HOUSE**
INDIANA
BLOOMINGTON

project information

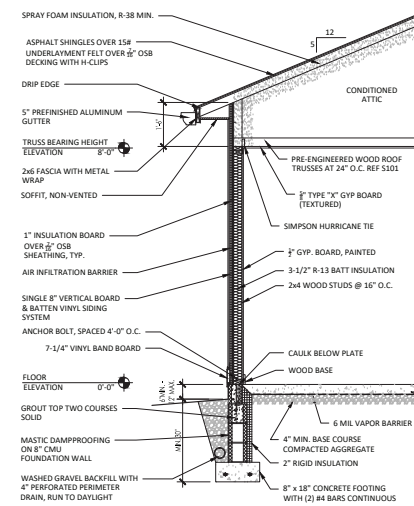
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ISSUE DATE: 08.02.21
REVISION DATE: 08.28.21

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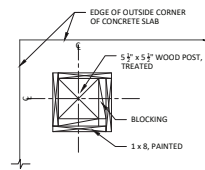
CABINET ELEVATIONS
WALL SECTION & DETAILS

sheet number

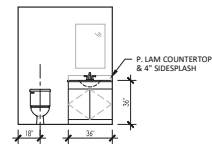
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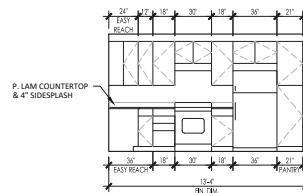
F TYPICAL SECTION
SCALE: 1/2" = 1'-0"



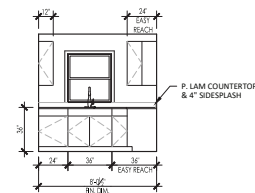
G COLUMN DETAIL
SCALE: 1-1/2" = 1'-0"



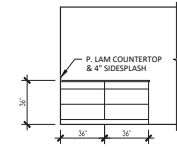
D BATH ELEVATION
SCALE: 3/4" = 1'-0"



C KITCHEN ELEVATION
SCALE: 1/4" = 1'-0"

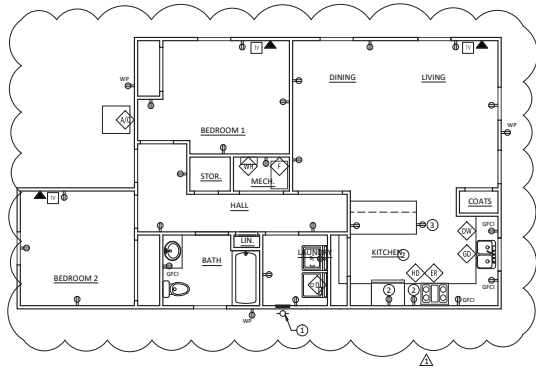


B KITCHEN ELEVATION
SCALE: 1/4" = 1'-0"

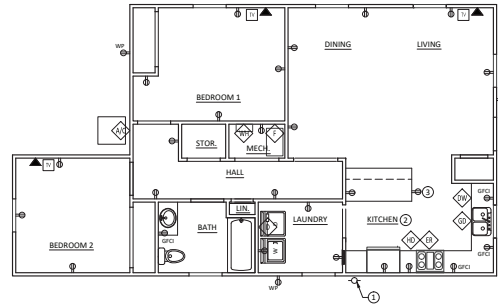


A KITCHEN ELEVATION
SCALE: 3/4" = 1'-0"

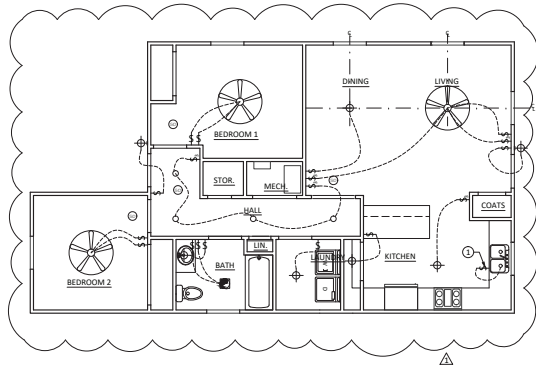
PROVIDE FINISHED PANELS AT ALL EXPOSED CABINET ENDS



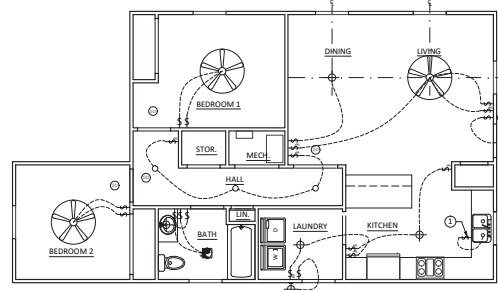
D SIDE ENTRY
POWER PLAN
SCALE: 3/16" = 1'-0"



B REAR ENTRY
POWER PLAN
SCALE: 3/16" = 1'-0"



C SIDE ENTRY
LIGHTING PLAN
SCALE: 3/16" = 1'-0"



A REAR ENTRY
LIGHTING PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL GENERAL NOTES

- A. ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
- B. PROVIDE POWER OUTLETS TO MEET CODE.
- C. ALL INTERIOR GFCI RECEPTACLES SHALL BE MOUNTED 48" A.F.F. U.N.O.
- D. ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF GFCI MOUNTED 28" A.F.F. U.N.O.
- E. ALL DISTRIBUTION PANELS SHALL HAVE TYPE WRITTEN CIRCUIT DIRECTORIES.
- F. TELEPHONE LOCATION BY OWNER.
- G. ELECTRICAL PANEL TO BE PAINTED.

POWER PLAN NOTES

- ① ELECTRICAL METER LOCATION
- ② MOUNT RECEPTACLES AT 44" A.F.F. ABOVE COUNTER TOP, U.N.O., THIS ROOM
- ③ RECESS AT SIDE OF CABINET

POWER PLAN LEGEND

- TV CABLE OUTLET
- 1 20V HOOD J.B. DIRECT WIRE
- 240V/1 WEATHERPROOF A/C DISCONNECT - LOCATION TO BE DETERMINED
- TELEPHONE JACK
- 1 20V J.B. FOR GAS WATER HEATER
- 1 20V J.B. FOR FURNACE UNIT
- 240V ELECTRIC DYER RECEPTACLE - SIZE AS REQUIRED BY DYER SELECTED
- 1 20V DISHWASHER J.B. - DIRECT WIRE
- ELECTRIC RANGE - 240V, 50A RECEPTACLE
- 1 20V GARBAGE DISPOSAL J.B., DIRECT WIRE
- ELECTRICAL PANEL

LIGHTING PLAN NOTES

- ① MOUNT SWITCH TO CONTROL GARBAGE DISPOSAL INSIDE BASE CABINET

LIGHTING PLAN LEGEND

- 1 20V SINGLE POLE SWITCH, +48" TO TOP, U.N.O
- 1 20V THREE-WAY LIGHT SWITCH, +48" TO TOP
- 1 20V DUPLEX RECEPTACLE, +16" TO BOTTOM
- GROUND FAULT CIRCUIT INTERRUPTER - HEIGHT DETERMINED BY LOCATION
- 1 20V RECEPTACLE WATERPROOF OUTLET - GFCI
- 240V RECEPTACLE, +16" TO BOTTOM
- LED WAFER LIGHT FIXTURE
- CEILING MOUNTED OR PENDANT LIGHT FIXTURE
- WALL MOUNTED SCENCE
- 1 20V BATTERY BACKUP SMOKE DETECTOR, INTERCONNECTED - SEE NOTE BELOW
- EXHAUST FAN WITH LIGHT
- CEILING FAN



certified

project title

HABITAT FOR HUMANITY OF MONROE COUNTY
OSAGE PLACE
2-BEDROOM HOUSE
INDIANA
BLOOMINGTON

project information

PROJECT NUMBER: 19-43
ISSUE DATE: 08.02.21
REVISION DATE: 08.28.21

sheet title

ELECTRIC & LIGHTING

sheet number

E101



HABITAT FOR HUMANITY OF MONROE COUNTY

OSAGE PLACE

4-BEDROOM HOUSE - STAIR ON RIGHT

APRIL 14, 2022

DRAWING INDEX

COVER DRAWING INDEX

S101 FOUNDATION PLAN & FRAMING PLANS

A101 FLOOR PLANS & ROOF PLAN

A201 EXTERIOR ELEVATIONS

A501 INTERIOR ELEVATIONS, SECTIONS, WALL SECTION,
& DETAIL

E101 LIGHTING PLANS & POWER PLANS

ARCHITECT

springpoint
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STRUCTURAL ENGINEER

KEVIN POTTER, P.E.
P.O. BOX 5563
BLOOMINGTON, INDIANA 47407
812.331.7981



certified

project title

HABITAT FOR HUMANITY OF MONROE COUNTY
OSAGE PLACE
4-BEDROOM HOUSE
STAIR ON RIGHT
INDIANA
BLOOMINGTON

project information

PROJECT NUMBER: 19-43
ISSUE DATE: 04.14.21
REVISION DATE:

sheet title

FOUNDATION PLAN & FRAMING PLANS

sheet number

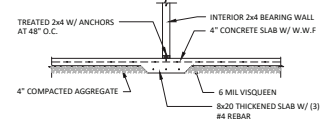
S101

GENERAL FOUNDATION NOTES

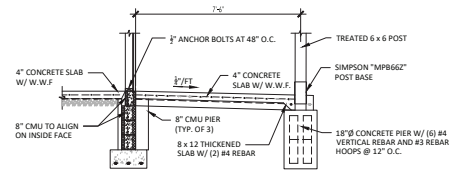
- A. TOP OF SLAB ELEVATION TO BE 6" MIN. TO 12" MAX. OF FINAL GRADE.

FOUNDATION KEYNOTES

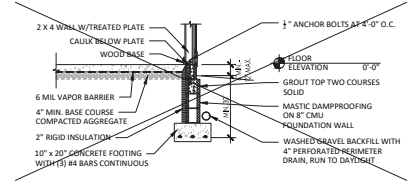
- ① 6" CMU TOP COURSE ON 8" CMU FOUNDATION WALL, ALIGN BLOCK AT OUTSIDE FACE, TYPICAL, REF. DETAIL C/S101
- ② 10 x 20 FOOTING W/ (3) #4 REBAR, TYPICAL
- ③ 4" CONCRETE SLAB W/ 6 x 6 W1.4W/1.4 WIRE FABRIC OVER 6 MIL VAPOR BARRIER OVER 4" MIN. COMPACTED NO. 53
- ④ 18" DIA. SONOTUBE FOUNDATION
- ⑤ SIMPSON MPB66Z POST BASE
- ⑥ 8 x 12 THICKENED SLAB W/ (2) #4 REBAR
- ⑦ 8" CMU PIER, TYPICAL OF 3
- ⑧ 8 x 20 THICKENED SLAB W/ (3) #4 REBAR



E THICKENED SLAB SECTION
SCALE: 3/8" = 1'-0"



D PORCH SLAB DETAIL
SCALE: 3/8" = 1'-0"



C TYPICAL FOUNDATION DETAIL
SCALE: 3/8" = 1'-0"

GENERAL FRAMING NOTES

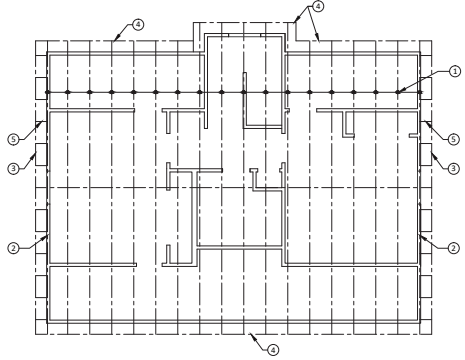
- A. ROOF TRUSS DESIGN CRITERIA:
20 PSF LL TOP CHORD
10 PSF DL TOP CHORD
10 PSF DL BOTTOM CHORD
40 PSF TOTAL LL & DL

UPPER ROOF FRAMING KEYNOTES

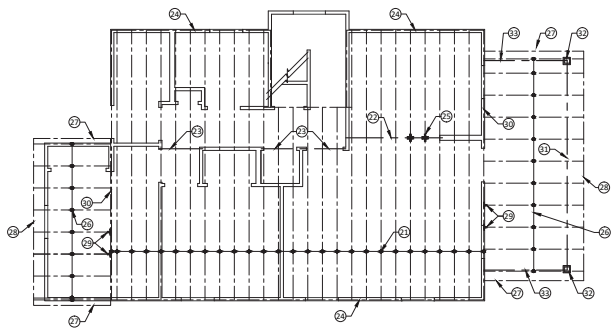
- ① SCISSOR TRUSSES AT 24" O.C.
- ② GABLE TRUSS
- ③ 2 x 6 FLY RAFTER
- ④ 2 x 6 FASCIA BOARD
- ⑤ 2x6 BLOCKING AT 24" O.C., TYPICAL

SECOND FLOOR FRAMING KEY NOTES

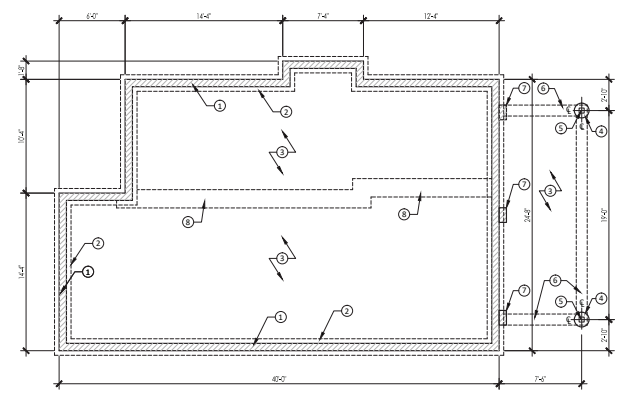
- ① 2 x 10 JOISTS AT 16" O.C.
- ② 5 1/2" x 9 1/2" LVL BEAM, RECESS UP INTO FLOOR STRUCTURE
- ③ (2) 2 x 10 W/ 1/2" PLYWOOD HEADER
- ④ 2 x 10 BAND JOIST
- ⑤ JOIST HANGERS, TYPICAL
- ⑥ MONOPITCH TRUSSES AT 24" O.C.
- ⑦ 2 x 6 FLY RAFTER
- ⑧ 2 x 6 FASCIA BOARD
- ⑨ TRUSS HANGERS
- ⑩ 2 x 4 LEDGER BOARD
- ⑪ 3-PLY 1/2" x 9 1/2" LVL BEAM
- ⑫ 6 x 6 POST (TREATED)
- ⑬ 2 PLY 1/2" x 9 1/2" LVL BEAM



G UPPER ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"



F SECOND FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"



A FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

GENERAL PLAN NOTES

- A. EXTERIOR WALLS TO BE 2 x 4 WOOD STUDS AT 16" O.C. WITH R-13 BATT INSULATION, 5/8" OSB, 1" INSULATION BOARD, AIR INFILTRATION BARRIER AND VINYL SIDING SYSTEM. 5/8" GYPSUM WALLBOARD AT INTERIOR SIDE, PAINTED.
- B. INTERIOR WALLS TO BE 2x4 WOOD STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD BOTH SIDES, PAINTED.
- C. PROVIDE SOUND ATTENUATION BATTS IN BATHROOM WALLS.
- D. PROVIDE BLOCKING FOR CABINETS, TOILET ACCESSORIES, HANDRAILS, ETC.
- E. CEILINGS TO RECEIVE LIGHT KNOCKDOWN FINISH. CEILING HEIGHT TO BE 8' 0" U.N.O.
- F. WINDOW SIZES:
 - (A) 3' x 5' DH WINDOW
 - (B) 3' x 3' DH WINDOW
 - (C) 3' x 3' DH WINDOW, TEMPERED GLASS
 - (D) 2' 6" x 3' 4" CASEMENT WINDOW, TO MEET EGRESS

PLAN KEYNOTES

- (1) RETURN AIR LOUVER IN WALL
- (2) WINDOW TO BE CENTERED OVER KITCHEN SINK
- (3) 2x4 STUD WALL WITH 5/8" FIRE-RATED GYPSUM BOARD, FIRE-TAPED. INSULATE WALLS ADJACENT TO LIVING SPACES
- (4) CASED OPENING
- (5) 4" CONCRETE PORCH SLAB
- (6) EDGE OF FOUNDATION WALL BELOW, TYPICAL
- (7) PARTIAL HEIGHT WALL WITH 1 x WOOD CAP, STAINED
- (8) 1-1/4" WOOD HANDRAIL, STAINED
- (9) HOSE BIB LOCATION
- (10) ATTIC ACCESS PANEL, 32" X 48" MIN.
- (11) CENTER DOOR IN FRONT ELEVATION

LEGEND

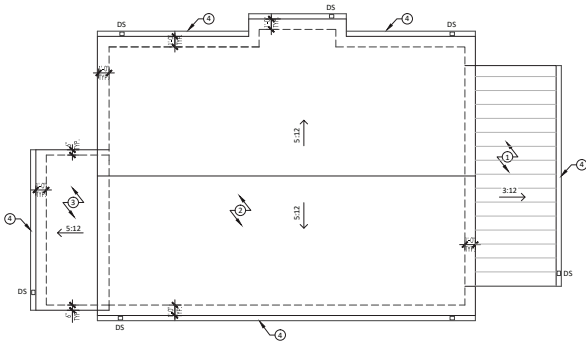
- NEW 2 x 4 WALL AT 16" O.C., U.N.O.
- NEW DOOR, REFERENCE SCHEDULE
- CEILING HEIGHT

GENERAL ROOF NOTES

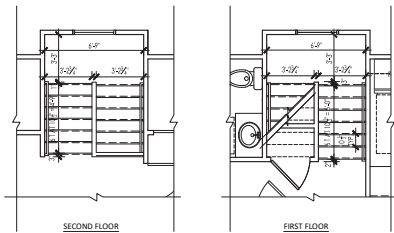
- A. PROVIDE SELF ADHERED UNDERLAYMENT AT ALL EAVES, VALLEYS AND ROOF PENETRATIONS AS PER MANUFACTURER'S REQUIREMENTS.
- B. PAINT ROOF PENETRATIONS TO MATCH ROOF COLOR.
- C. COORDINATE DOWNSPOUT LOCATIONS WITH SPECIFIC HOUSE LOCATION.

ROOF KEYNOTES

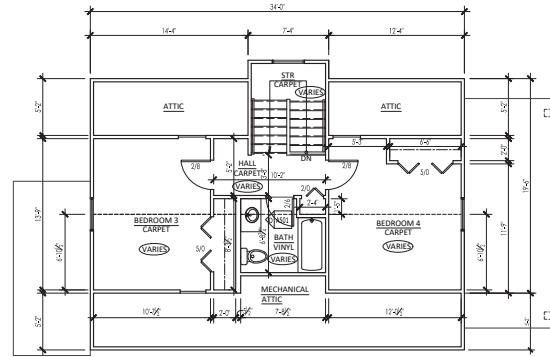
- (1) STANDING SEAM METAL ROOF SYSTEM
- (2) ASPHALT SHINGLES OVER 15# UNDERLAYMENT FELT, 5/8" OSB DECKING WITH H-CLIPS
- (3) ASPHALT SHINGLES OVER (2) LAYERS 15# UNDERLAYMENT FELT, 5/8" OSB DECKING WITH H-CLIPS
- (4) 5" FINISHED ALUMINUM GUTTERS WITH 4" DOWNSPOUT INTO PVC BOOT, TIED INTO STORM DRAIN



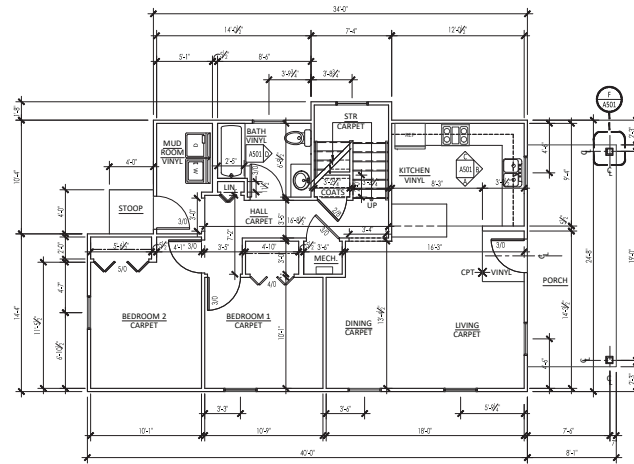
D ROOF PLAN
SCALE: 3/16" = 1'-0"



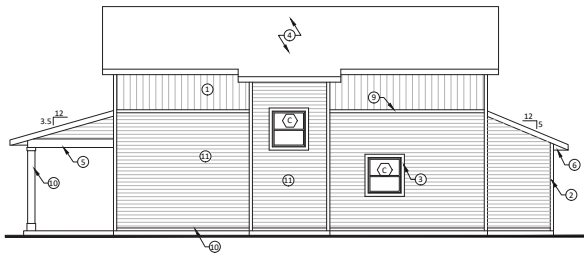
C ENLARGED STAIR PLANS
SCALE: 1/4" = 1'-0"



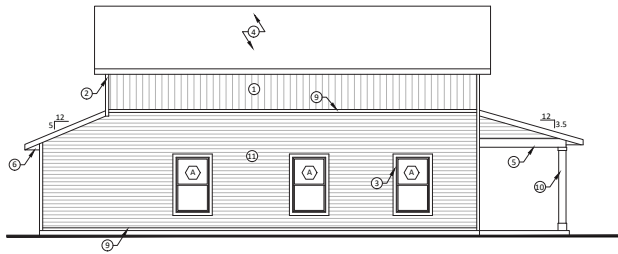
B SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"



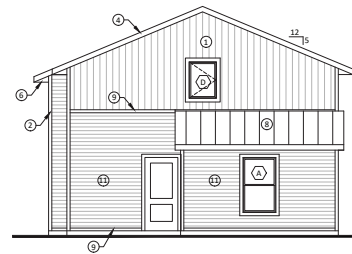
A FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"



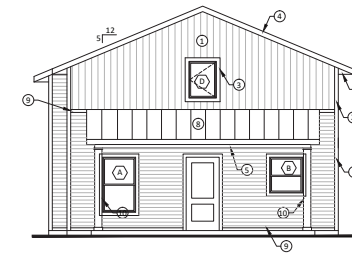
D SIDE ELEVATION
SCALE: 3/16" = 1'-0"



C SIDE ELEVATION
SCALE: 3/16" = 1'-0"



B REAR ELEVATION
SCALE: 3/16" = 1'-0"



A FRONT ELEVATION
SCALE: 3/16" = 1'-0"

BEARING ELEVATION 14'-1 1/2"
SECOND FLOOR ELEVATION 8'-11 1/8"
MAIN FLOOR ELEVATION 0'-0"

BEARING ELEVATION 14'-1 1/2"
SECOND FLOOR ELEVATION 8'-11 1/8"
BEAM BEARING ELEVATION 7'-6"
MAIN FLOOR ELEVATION 0'-0"

GENERAL ELEVATION NOTES

- A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT.
- B. COORDINATE WORK OF OTHER TRADES WITH YOUR TRADE BEFORE STARTING ANY CONSTRUCTION.

ELEVATION KEYNOTES

- ① SINGLE 8" VERTICAL BOARD & BATTEN VINYL SIDING SYSTEM
- ② VINYL CORNER TRIM
- ③ VINYL WINDOW TRIM
- ④ ASPHALT SHINGLES OVER 1/4" UNDERLAYMENT FELT ON 5/8" OSB DECKING WITH H-CLIPS
- ⑤ SOLID SOFFIT ON PORCHES AND RAKES
- ⑥ VENTED SOFFIT ON HORIZONTAL EAVES
- ⑦ 5" GUTTER AND 4" DOWNPOUT. TIE INTO BOOT FOR BELOW GRADE STORM LINE
- ⑧ STANDING SEAM METAL ROOFING SYSTEM
- ⑨ 3 1/2" VINYL TRIM BOARD
- ⑩ 8 x 8 POST FIN. DIM. WITH 1 x 8 BASE TRIM AND 1 x 4 TOP TRIM
- ⑪ DOUBLE 4 VINYL SIDING

\Habitat Logo.JPG

certified

project title

HABITAT FOR HUMANITY OF MONROE COUNTY
OSAGE PLACE
4-BEDROOM HOUSE
STAIR ON RIGHT
INDIANA
BLOOMINGTON

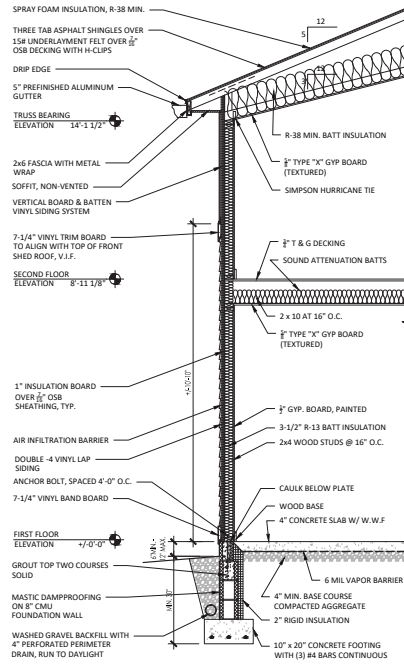
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ISSUE DATE: 04.14.21
REVISION DATE:

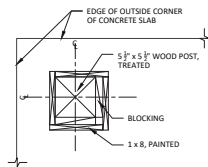
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EXTERIOR ELEVATIONS

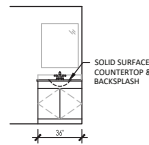
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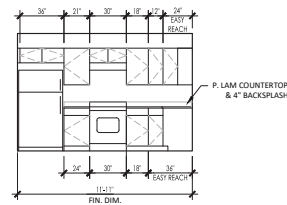
TYPICAL
J SECTION
SCALE: 1/2" = 1'-0"



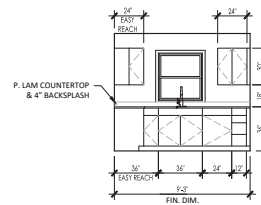
F COLUMN DETAIL
SCALE: 1-1/2" = 1'-0"



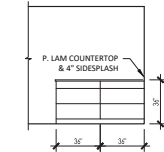
D BATH ELEVATION
SCALE: 1/4" = 1'-0"



C KITCHEN ELEVATION
SCALE: 1/4" = 1'-0"

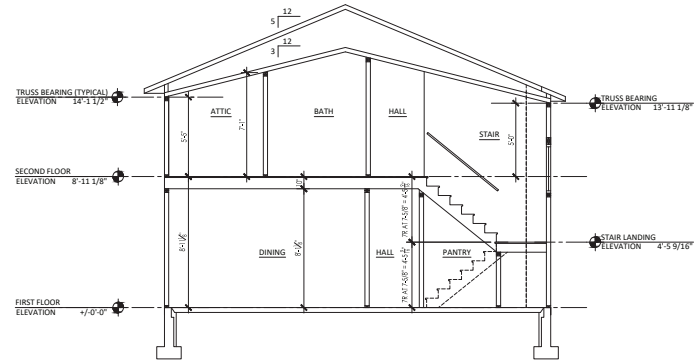


B KITCHEN ELEVATION
SCALE: 1/4" = 1'-0"

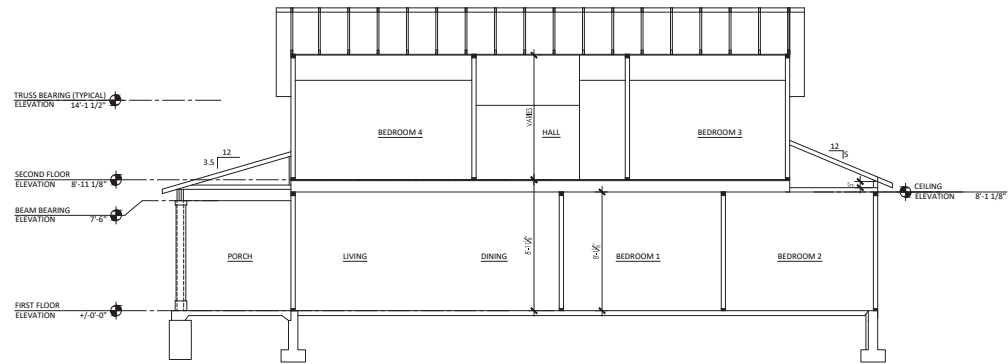


A KITCHEN ELEVATION
SCALE: 1/4" = 1'-0"

PROVIDE FINISHED PANELS AT ALL EXPOSED CABINET FACES



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



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

GENERAL ELECTRICAL NOTES

- A. ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
- B. PROVIDE POWER OUTLETS TO MEET CODE.
- C. ALL INTERIOR GFCI RECEPTACLES SHALL BE MOUNTED 48" A.F.F. U.N.O.
- D. ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF, GFCI, MOUNTED 12" A.F.F. U.N.O.
- E. ALL DISTRIBUTION PANELS SHALL HAVE TYPE-WRITTEN CIRCUIT DIRECTORIES.
- F. TELEPHONE LOCATION BY OWNER.
- G. ELECTRICAL PANEL TO BE PAINTED.

POWER PLAN KEYNOTES

- ① ELECTRICAL METER LOCATION
- ② MOUNT AT 44" A.F.F.
- ③ RECESS AT SIDE OF CABINET

POWER PLAN LEGEND

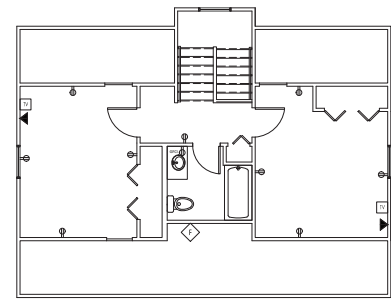
- CABLE OUTLET
- ⊕ 1 20V HOOD J.B. DIRECT WIRE
- ⊕ 240V/I WEATHERPROOF A/C DISCONNECT - LOCATION TO BE DETERMINED
- ☒ TELEPHONE JACK
- ⊕ 1 20V J.B. FOR GAS WATER HEATER
- ⊕ 1 20V J.B. FOR FURNACE UNIT
- ⊕ 240V ELECTRIC DRYER RECEPTACLE - SIZE AS REQUIRED BY DRYER SELECTED
- ⊕ 1 20V DISHWASHER J.B. - DIRECT WIRE
- ⊕ ELECTRIC RANGE - 240V, 50A RECEPTACLE
- ELECTRICAL PANEL

LIGHTING PLAN KEYNOTES

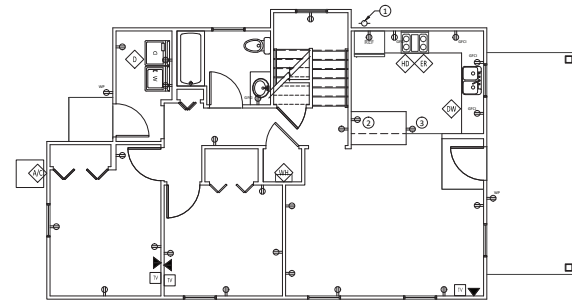
- ① PROVIDE MOUNTING BLOCK FOR CEILING FAN AT SLOPED CEILING

LIGHTING PLAN LEGEND

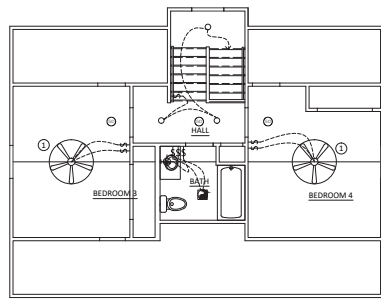
- ⊕ 1 20V SINGLE POLE SWITCH, +48" TO TOP, U.N.O
- ⊕ 1 20V THREE-WAY LIGHT SWITCH, +48" TO TOP
- ⊕ 1 20V DUPLEX RECEPTACLE, +16" TO BOTTOM
- ⊕ GROUND FAULT CIRCUIT INTERRUPTER - HEIGHT DETERMINED BY LOCATION
- ⊕ 1 20V RECEPTACLE WATERPROOF OUTLET - GFCI
- ⊕ 240V RECEPTACLE, +16" TO BOTTOM
- LED WAFFER LIGHT FIXTURE
- ⊕ CEILING MOUNTED OR PENDANT LIGHT FIXTURE
- ⊕ WALL MOUNTED SCONCE
- ⊕ 1 20V BATTERY BACKUP SMOKE DETECTOR, INTERCONNECTED - SEE NOTE BELOW
- ⊕ EXHAUST FAN WITH LIGHT
- ⊕ CEILING FAN WITH LIGHT FIXTURE



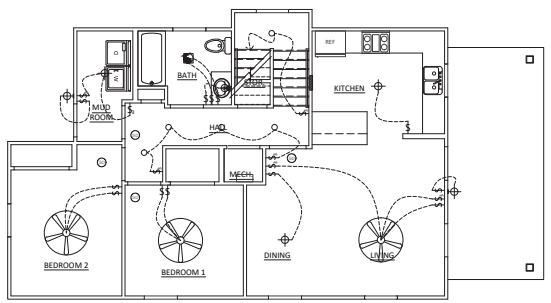
B SECOND FLOOR
POWER PLAN
SCALE: 3/16" = 1'-0"



A FIRST FLOOR
POWER PLAN
SCALE: 3/16" = 1'-0"



D SECOND FLOOR
LIGHTING PLAN
SCALE: 3/16" = 1'-0"

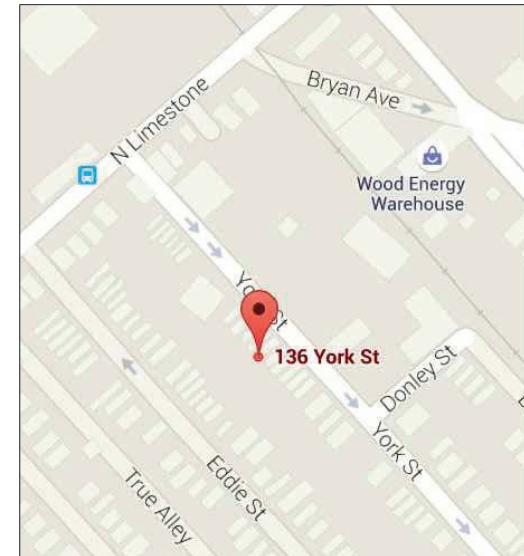


C FIRST FLOOR
LIGHTING PLAN
SCALE: 3/16" = 1'-0"



Live/Work Storage Container Unit

136 York St. 40508
Lexington, KY
09/03/15



SITE LOCATION

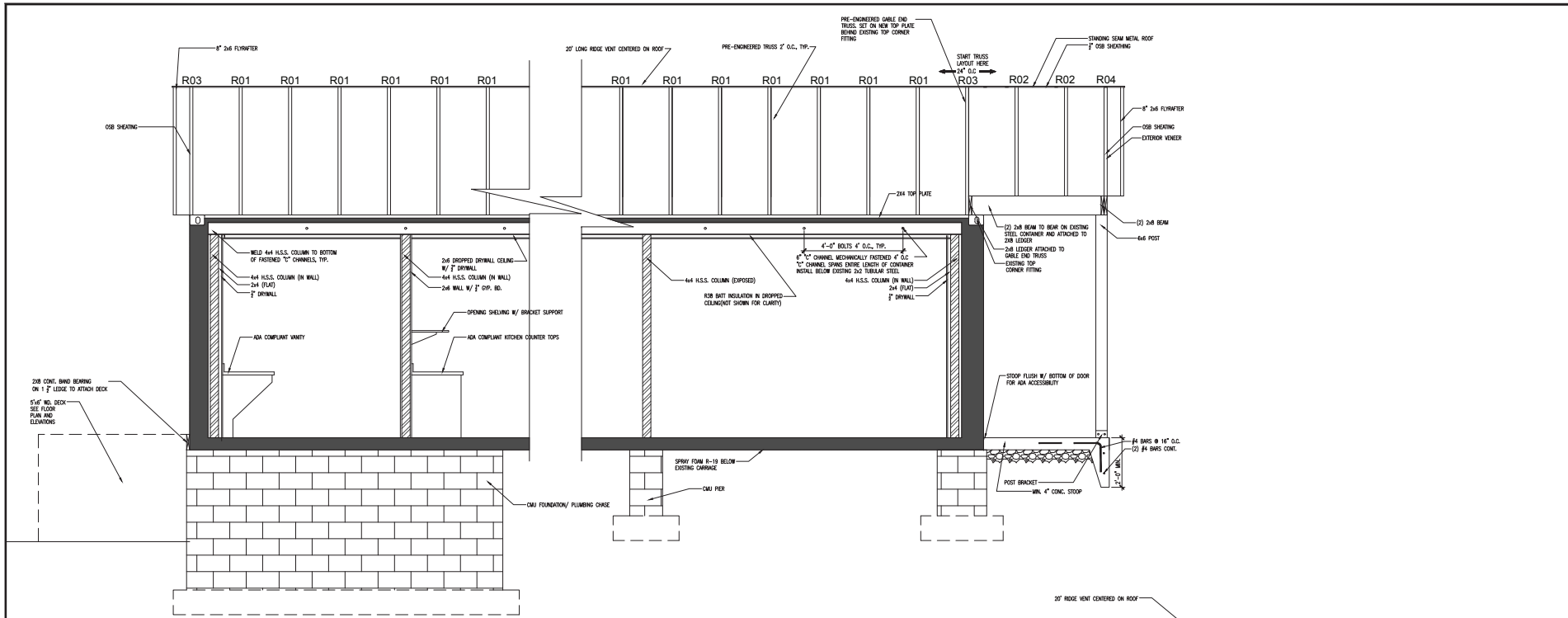
Index

- A-1 Foundation Plan
- A-2 Floor/Roof/Plumbing Plan
- A-3 Elevations
- A-4 Sections/Truss Profiles

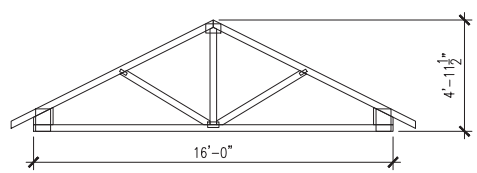
EMERGE 
CONTRACTING

941 National Ave, Ste 120
LEXINGTON, KY 40502

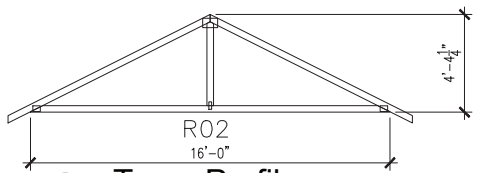
emergellex.com / 859-212-3077



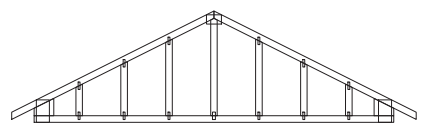
1 Section
1/2"=1'



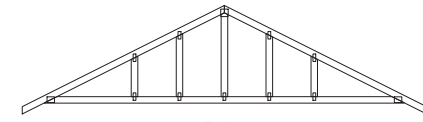
R01



R02

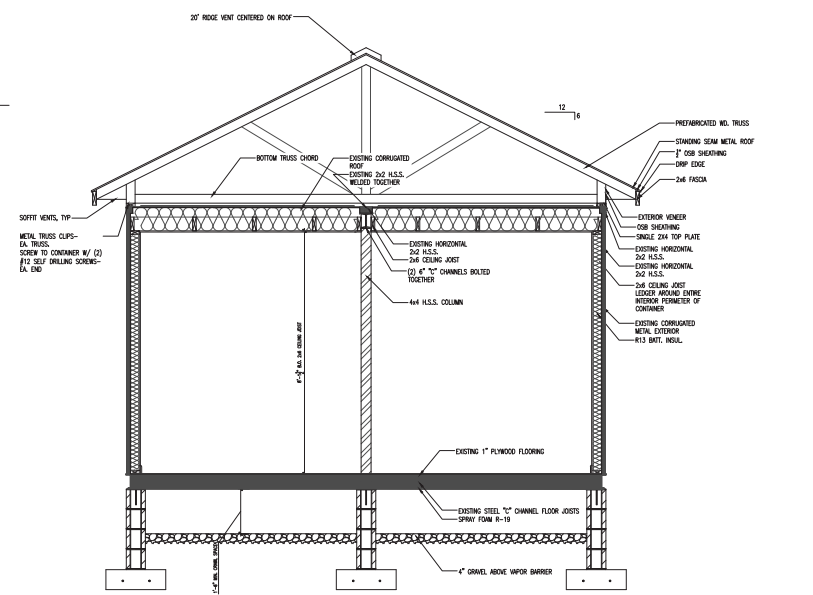


R03



R04

3 Truss Profile
1/2"=1'



2 Section
1/2"=1'

EMERGE
CONTRACTING
941 National Ave, Ste 120
LEXINGTON, KY 40502
emergeck.com / 859.212.9171

Elkhorn
Container Home
136 York Street
Lexington, KY

Sections
Truss Profiles
RESIDENTIAL PLAN

| | |
|----------------------|----------|
| Designer | JCC |
| Scale | AS NOTED |
| Date | 09/03/15 |
| Issue/Revision Notes | |
| | |
| | |
| | |

A-4

Casework Schedule - Building 10

| CASEWORK TYPE | AMOUNT |
|---------------|--------|
| B9 | 8 |
| B24 | 4 |
| B36 | 4 |
| RSB30 | 4 |
| VSB24 | 4 |
| VSB30 | 4 |
| W300 | 8 |
| W2430 | 4 |
| W3015 | 4 |
| W3615 | 5 |

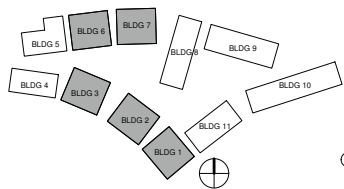
Door Schedule- Building 10

| TAG NUMBER | DOOR TYPE | AMOUNT |
|------------|--|--------|
| 1 | 3'-0" x 6'-8" EXTERIOR DOOR | 4 |
| 2 | 3'-0" x 6'-8" EXTERIOR DOOR W/ GLASS | 4 |
| 10 | 1'-8" x 6'-8" PRE-HUNG PASSAGE | 4 |
| 13 | 2'-6" x 6'-8" PRE-HUNG PASSAGE | 4 |
| 14 | 2'-8" x 6'-8" PRE-HUNG PASSAGE | 16 |
| 15 | 3'-0" x 6'-8" PRE-HUNG PASSAGE | 4 |
| 30 | 2'-0" x 6'-8" BYPASS FINGER PULL SET W/ HARDWARE | 12 |

*SCHEDULES REFLECT COUNTS FOR ENTIRE BUILDING. AMOUNTS ARE PER UNIT

GENERAL CONSTRUCTION NOTES

- ALL DIMENSIONS ARE TO THE FACE OF FRAMING MEMBERS
- EXTERIOR WALLS ARE CONSTRUCTED WITH 2X6 @ 24" O.C. FRAMING UNLESS OTHERWISE NOTED. ALL BEARING WALLS ARE CONSTRUCTED WITH 2X6 FRAMING @ 24" O.C. UNLESS OTHERWISE NOTED
- INTERIOR WALLS ARE CONSTRUCTED WITH 2X4 @ 24" O.C. FRAMING UNLESS OTHERWISE NOTED
- TYPICAL HALF WALLS W/ MDF CAP, 40" A.F.F.
- TYPICAL BAR HEIGHT, 46-1/2" A.F.F.
- PROVIDE SOLID CORE, INSULATED, 2-PANEL PAINTABLE EXTERIOR FIBERGLASS DOOR W/ DEADBOLT LOCK
- ALL INTERIOR DOORS ARE PREHUNG HOLLOW CORE, SMOOTH, 2-PANEL W/ A PAINT GRADE FINISH, PRIMED WHITE. ALL JAMBS AND TRIM ARE FINGER JOINTED.
- ALL WINDOWS ARE INSULATED VINYL W/ LOW-E GLAZING, UNLESS OTHERWISE NOTED, STC25 OR HIGHER, U-VALUE IS .30
- SMOKE DETECTORS TO BE INSTALLED PER 2015 IRC GUIDELINES, SECTION R314
- CARBON DETECTORS TO BE INSTALLED PER 2015 IRC GUIDELINES, SECTION R315
- TYPICAL ROD AND SHELF, 72" A.F.F.
- TYPICAL LINEN SHELVING, 4 TOTAL AT VARIOUS HEIGHTS (FIELD DETERMINED UNLESS OTHERWISE NOTED)
- HANDRAILS REQUIRED @ ALL STAIRS PER 2015 IRC SEC.3117.8. MIN. 34" ABOVE TREAD NOSE. HANDRAIL REQUIRED ON AT LEAST ONE SIDE OF STAIR AND RETURNED TO WALL AT TOP AND BOTTOM
- PRE FABRICATED SOLID SURFACE TUB SURROUND TO BE USED IN THE TUB/SHOWER AREA, UNLESS OTHERWISE NOTED
- GRAB BAR BLOCKING SHALL BE INSTALLED BETWEEN 32" AND 38" A.F.F. IN WALLS BEHIND AND NEXT TO TOILETS AND WALLS BEHIND THE TUB SURROUND IN FIRST FLOOR BATHS. CONFIRM BLOCKING LOCATIONS WITH PLUMBING CONTRACTOR
- WRAP USABLE SPACE UNDER STAIRS WITH 1/2" TYPE X GYPSUM WALLBOARD



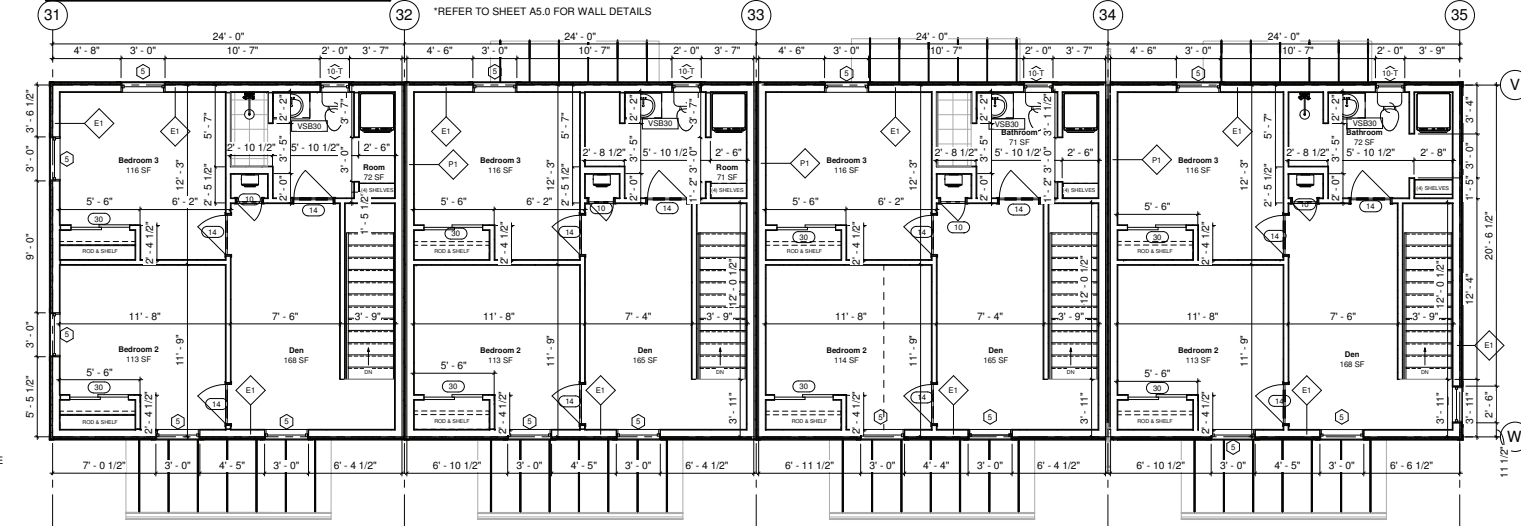
Window Schedule - Building 10

| TAG NUMBER | WINDOW TYPE | AMOUNT |
|------------|------------------------------------|--------|
| 3 | 2'-6" x 5'-0" SINGLE HUNG | 12 |
| 5 | 3'-0" x 5'-0" SINGLE HUNG | 20 |
| 10 | 2'-0" x 3'-0" SINGLE HUNG | 1 |
| 10-T | 2'-0" x 3'-0" SINGLE HUNG TEMPERED | 4 |

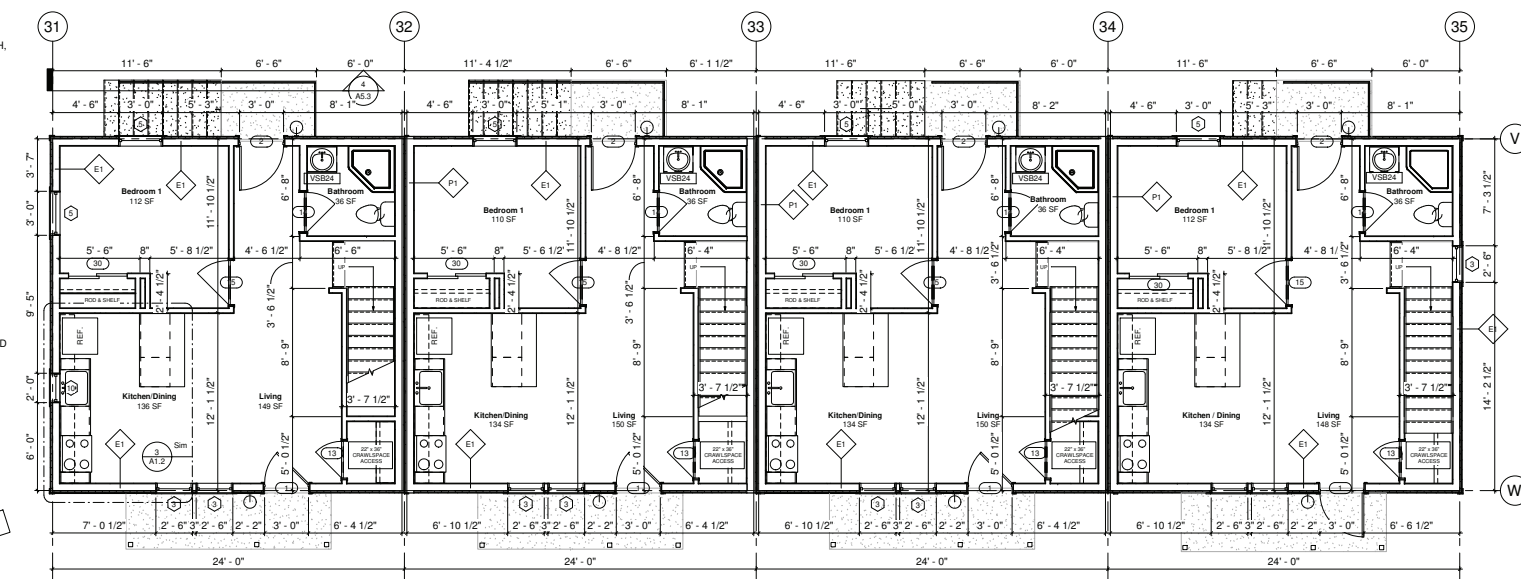
WALL LEGEND

- NON RATED SEPARATION
- 1 HOUR SEPARATION WA 60-01 (PYROTITE FACING OUT)
- 2 HOUR SEPARATION UL373

*REFER TO SHEET A5.0 FOR WALL DETAILS



2ND FLOOR PLAN
1/4" = 1'-0"



1ST FLOOR PLAN
1/4" = 1'-0"

*REFER TO OVERALL CODE PLAN (G0.2) FOR LOCATIONS OF 1-HOUR RATED WALLS



Contact Info
Habitat for Humanity of Metro Denver
3245 Eliot Street, Denver, CO 80211
(303) 534-2929
Kory Whittaker
Real Estate Manager
(720) 496-2729



ARIA POCKET
2801 - 2831 W 53RD AVE
DENVER, COLORADO

| No. | Description | Date |
|-----|------------------|------------|
| 1 | ISSUE FOR PERMIT | 08.30.2019 |
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ARIA POCKET
2801 - 2831 W 53RD AVE
DENVER, COLORADO
JOB NUMBER PR0104
DRAWN BY CH
CHECKED BY JB

FLOOR PLANS - BLDG 10

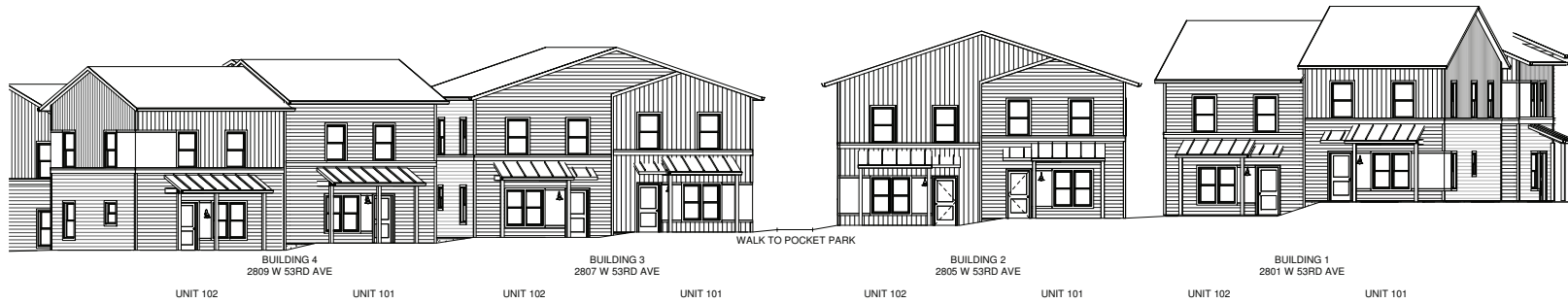
A1.6



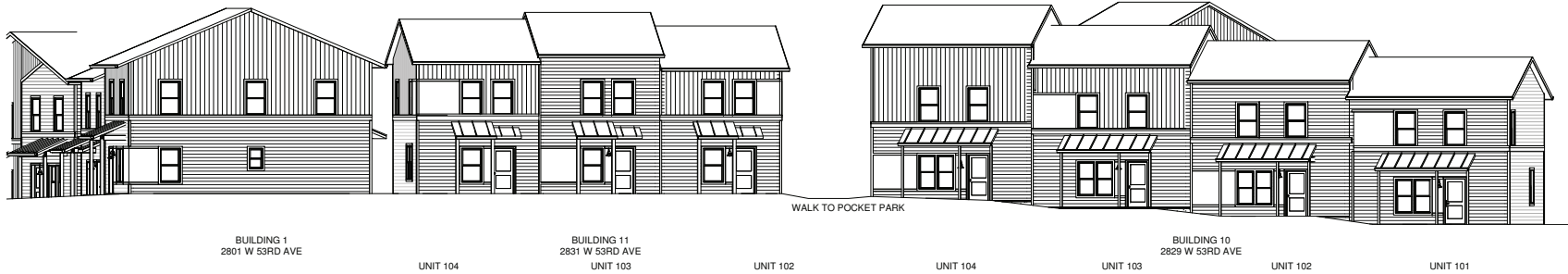
Contact Info
 Habitat for Humanity of Metro Denver
 3245 Eliot Street, Denver, CO 80211
 (303) 534-2929
 Kory Whittaker
 Real Estate Manager
 (720) 496-2729



**ARIA POCKET
 2801 - 2831 W 53RD AVE
 DENVER, COLORADO**



① OVERALL SOUTH VIEW
 1/8" = 1'-0"



② OVERALL EAST VIEW
 1/8" = 1'-0"

| No. | Description | Date |
|-----|------------------|------------|
| 1 | ISSUE FOR PERMIT | 08.30.2019 |
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ARIA POCKET
 2801 - 2831 W 53RD AVE
 DENVER, COLORADO
 JOB NUMBER PR0104
 DRAWN BY Author
 CHECKED BY Checker

OVERALL ELEVATIONS

A2.00

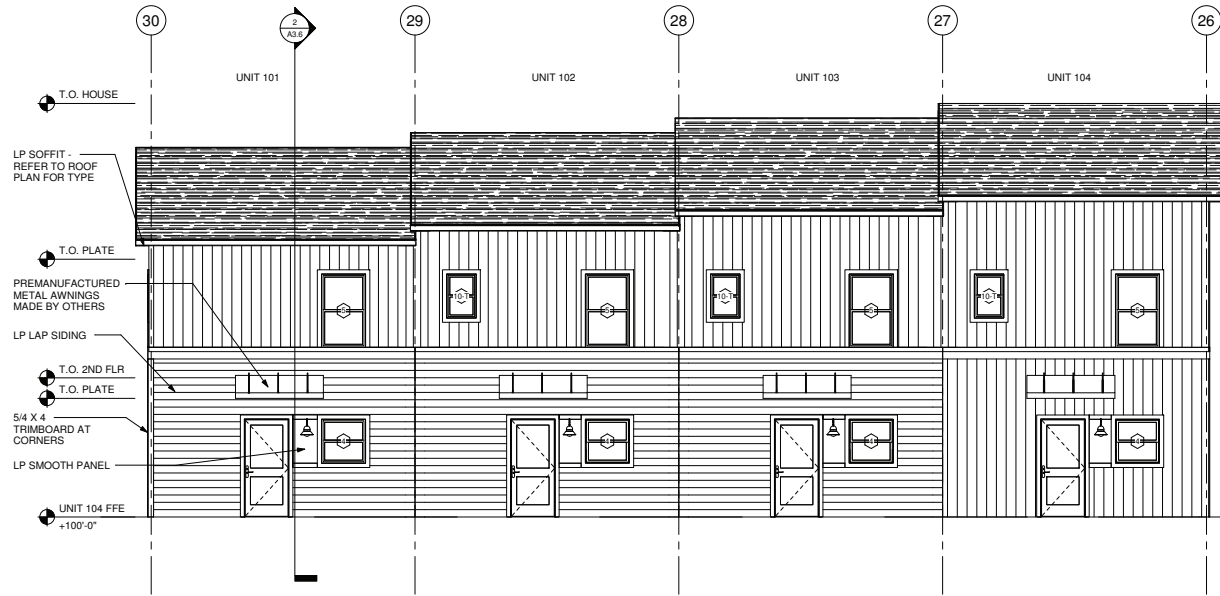
ARIA POCKET
2801 - 2831 W 53RD AVE
DENVER, COLORADO

| No. | Description | Date |
|-----|------------------|------------|
| 1 | ISSUE FOR PERMIT | 08.30.2019 |
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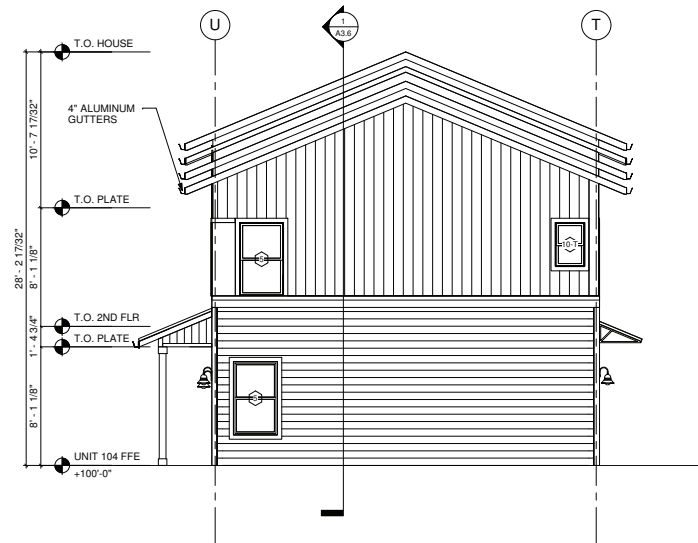
| | |
|--|--------|
| ARIA POCKET | |
| 2801 - 2831 W 53RD AVE DENVER, COLORADO | |
| JOB NUMBER | PR0104 |
| DRAWN BY | CH |
| CHECKED BY | JB |

ELEVATIONS -
BLDG 9

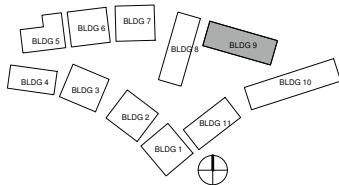
A2.18B



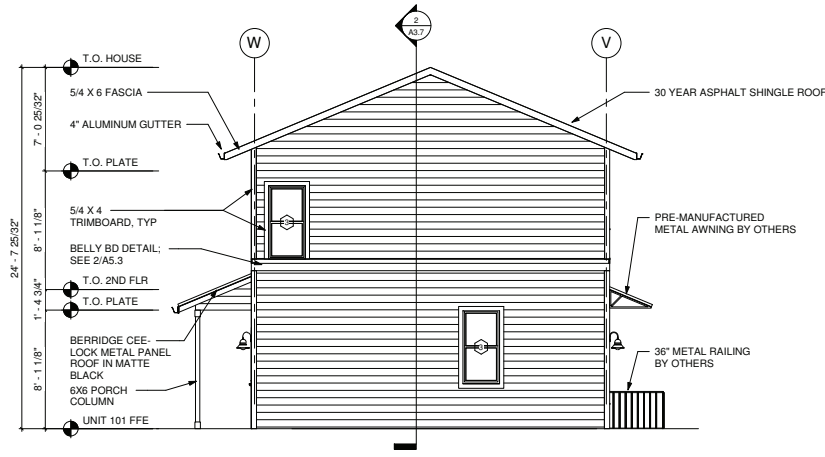
① SOUTH ELEVATION - BUILDING 9 UNIT FLOOR HEIGHT NUMBERS BASED ON STRUCTURAL DRAWINGS. SEE CIVIL FOR LEGS ELEVATIONS
 1/4" = 1'-0"



② WEST ELEVATION - BUILDING 9
 1/4" = 1'-0"



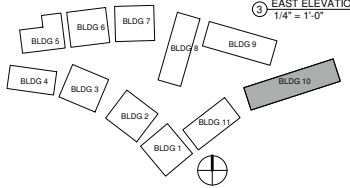
ARIA POCKET
2801 - 2831 W 53RD AVE
DENVER, COLORADO



① NORTH ELEVATION - BUILDING 10
 1/4" = 1'-0"



③ EAST ELEVATION - BUILDING 10
 1/4" = 1'-0"



| No. | Description | Date |
|-----|------------------|------------|
| 1 | ISSUE FOR PERMIT | 08.30.2019 |
| | | |
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| | | |

ARIA POCKET
 2801 - 2831 W 53RD AVE
 DENVER, COLORADO

| | |
|------------|--------|
| JOB NUMBER | PR0104 |
| DRAWN BY | CH |
| CHECKED BY | JB |

ELEVATIONS -
 BLDG 10

A2.19A

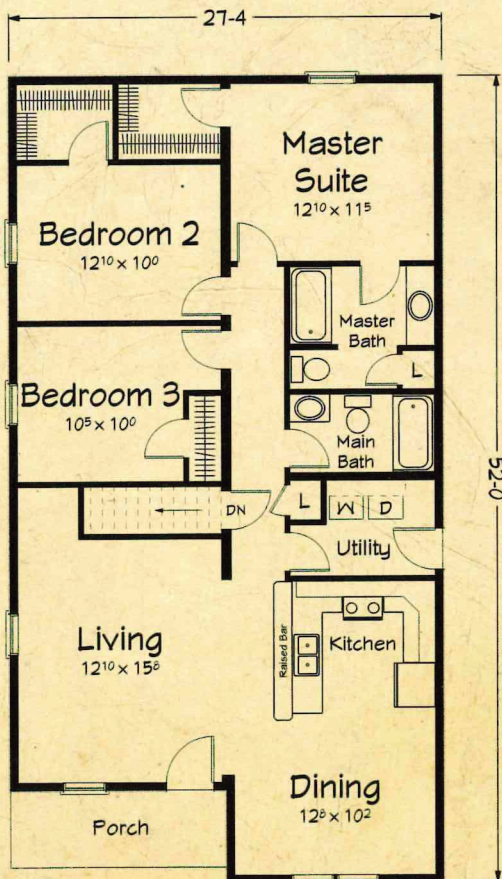
CALABASH

Ranch

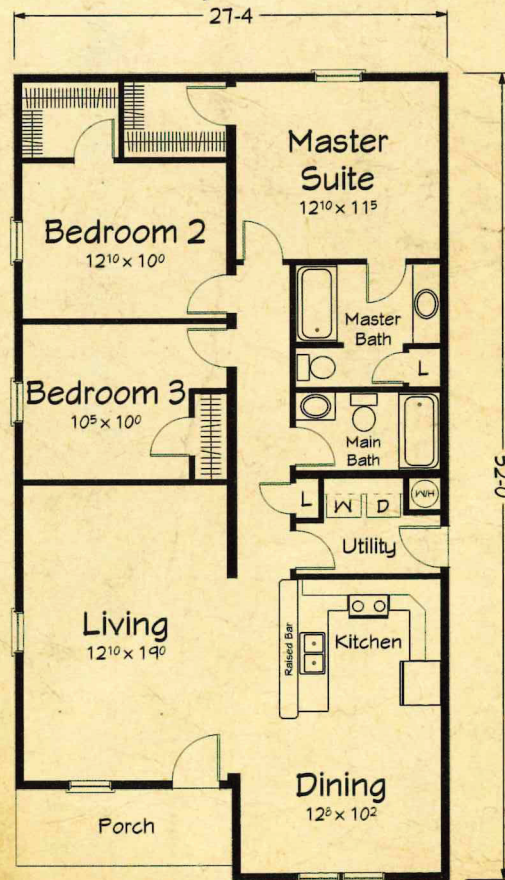
1339 Square Feet



Basement Plan



Crawlspace Plan



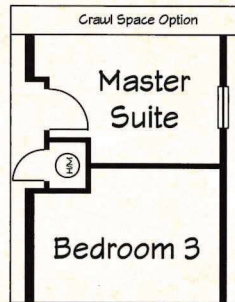
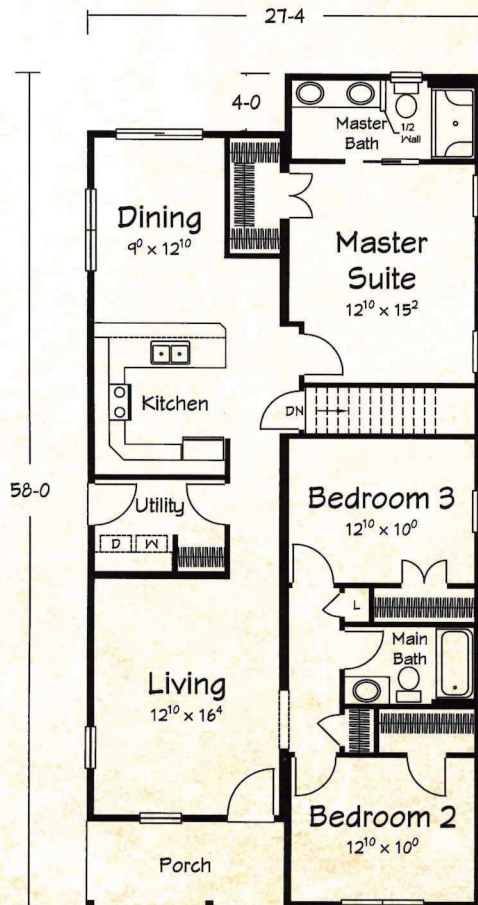
Artist renderings depict homes as they may be built on a typical site. Renderings may include optional or site installed features. Refer to "Heritage Collection" specifications and be sure to thoroughly discuss all aspects of your building project with your homebuilder.





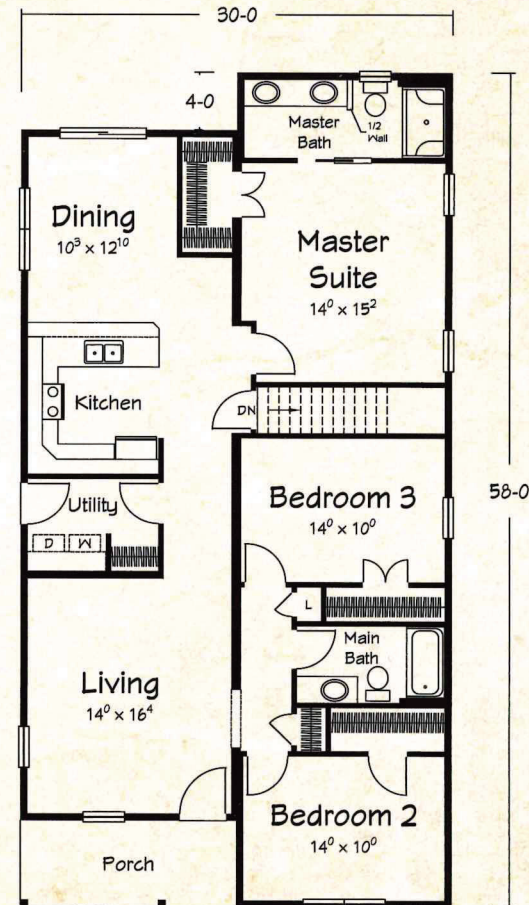
Hillsdale

RANCH PLAN



Hillsdale I
1449 sq. ft. Living Area

- 3 Bedrooms
- 2 Baths

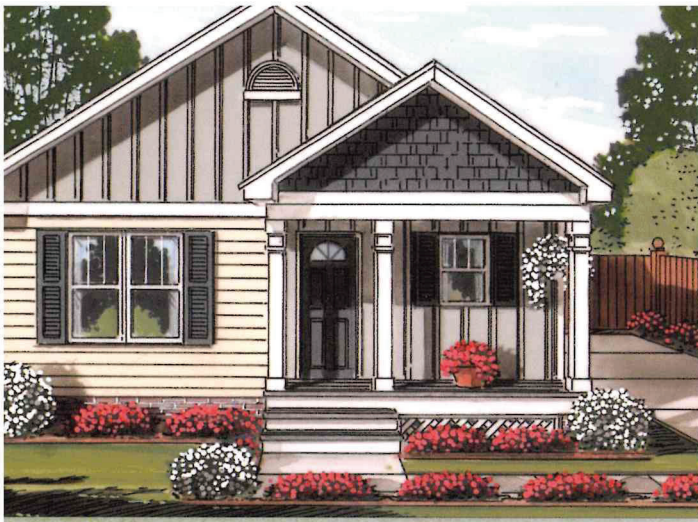


Hillsdale II
1590 sq. ft. Living Area

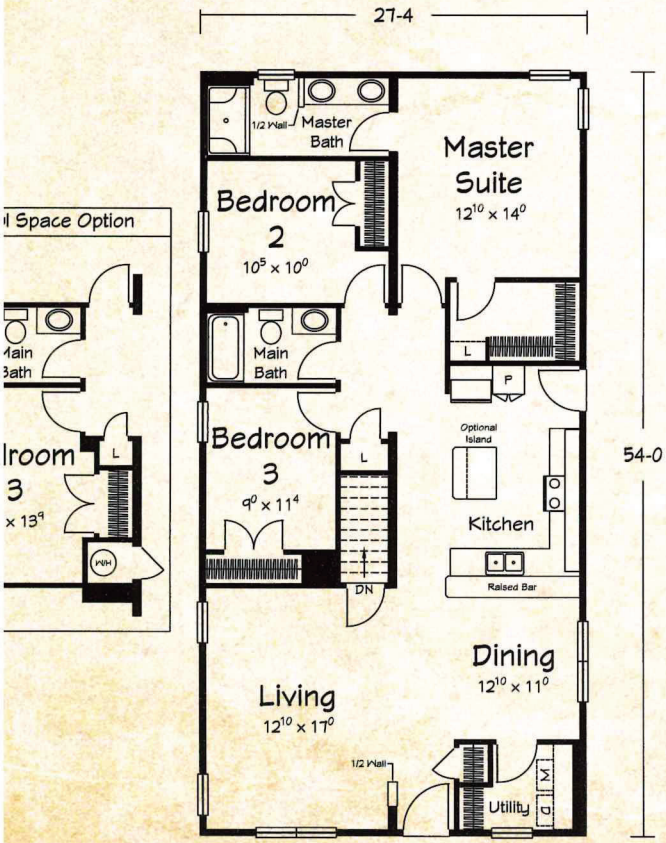
- 3 Bedrooms
- 2 Baths

Mallard Walk

RANCH PLAN



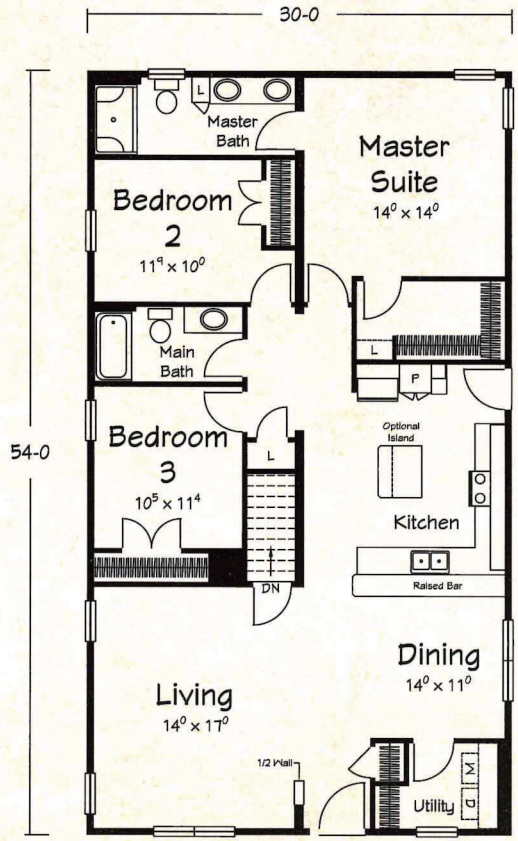
Shown with site built porch



Mallard Walk I

1476 sq. ft. Living Area

- 3 Bedrooms
- 2 Baths

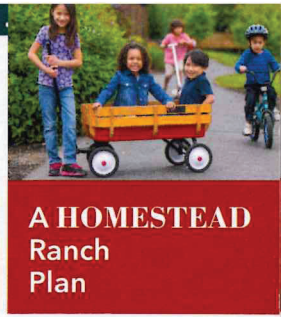


Mallard Walk II

1620 sq. ft. Living Area

- 3 Bedrooms
- 2 Baths

Plan exterior dimensions and interior room sizes are accurate, but may have been rounded for brochure plans. Always refer to Ritz Craft provided prints for actual dimensions.



**A HOMESTEAD
Ranch
Plan**



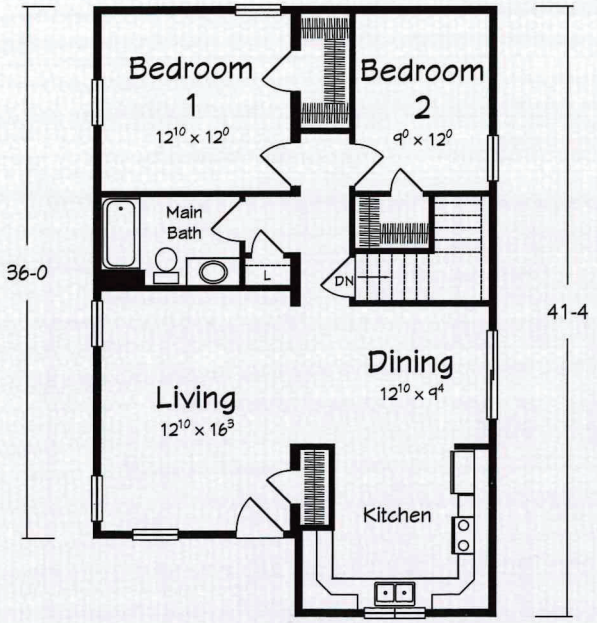
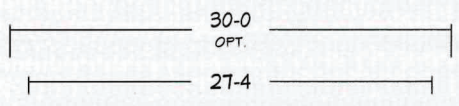
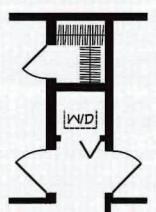
Shown with site built porch.

MALVERN RANCH

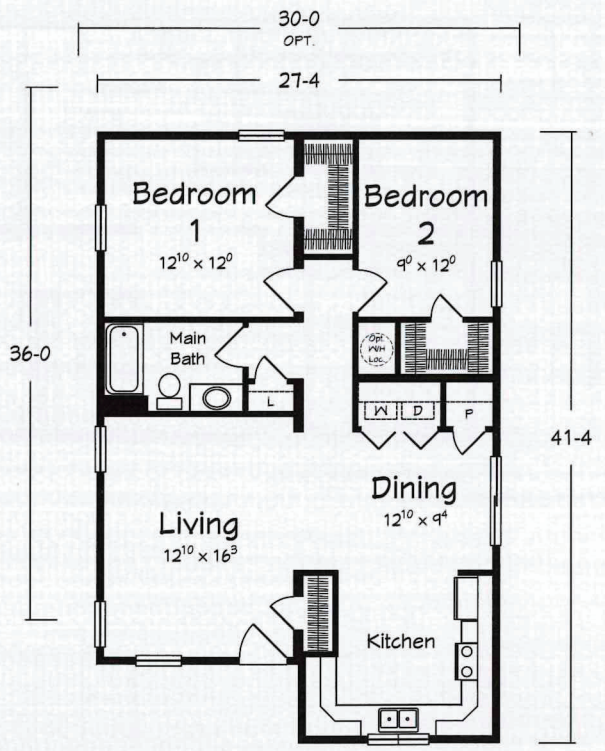
1057-1160 square feet
2 Bedrooms • 1 Bath

28 wide #8533
30 wide #8633

Optional Stack W/D
Location for Basement Plan



Basement Plan



Crawlspace Configuration

Artist's renderings depict homes as they may be built on a typical site. Renderings may include optional or site installed features. Refer to Ritz-Craft's standard "Homestead Specifications" and be sure to thoroughly discuss all aspects of your building project with your selected homebuilder.

September 7, 2023

John Saunders
Chair
Bloomington Historic Preservation
401 N Morton St, Suite 130
Bloomington, IN 47404

Re: 1020 N Monroe St., Bloomington, Monroe County, Indiana – CDBG Physical Improvement Grant

Dear Mr. Saunders,

The City of Bloomington, Indiana is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the City of Bloomington has assumed HUD's environmental review responsibilities for the project, including consulting with interested parties related to historic properties. Historic properties include archeological sites and structures.

City of Bloomington will conduct a review of this project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have local historical significance and to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

To meet project timeframes, if you would like to be a consulting party on this project, can you please let us know of your interest within 30 days? If you have any initial concerns with impacts of the project on religious or cultural properties, can you please note them in your response?

The subrecipient is applying for CDBG funds to assist in the construction of its Early Learning Center. The two-story building will be built at the northeast corner of 14th St. and Monroe St. at 1020 N. Monroe St. The first floor will consist of three early childcare classrooms and a walled playground to the east. The second floor will consist of three, bedroom, affordable apartments accessed by an exterior staircase from the parking lot to the south of the building. SHCDC is applying for CDBG funds to purchase and install the playground, playground wall and fencing.

The entire site is proposed for ground disturbance at different levels. A new two story building is proposed for the site along with a playground, parking, landscaping, and fencing. The site used to have a large water container which has since been removed.

More information on the Section 106 review process is available at <http://www.onecpd.info/environmental-review/historic-preservation/>.

If you do not wish to consult on this project, no reply to this letter is needed. Thank you very much. We value your assistance and look forward to consulting further if there are historic properties that may be affected by this project.

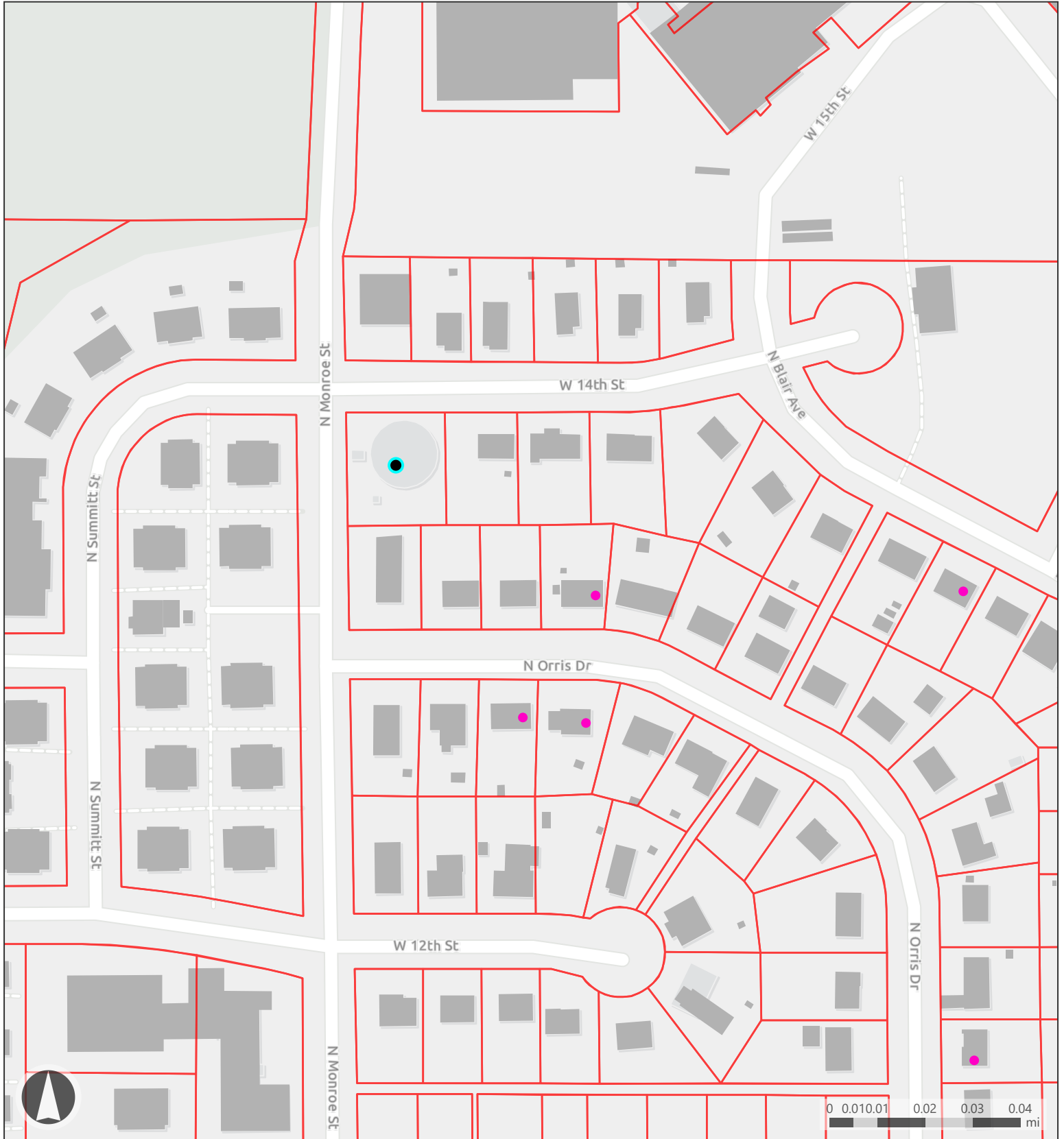
Sincerely,



Gloria M. Colom Braña
Historic Preservation Program Manager
City of Bloomington, Indiana

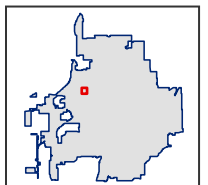
Cc: Department of Historic Preservation and Archeology, Department of Natural Resources, Indiana

Attachments

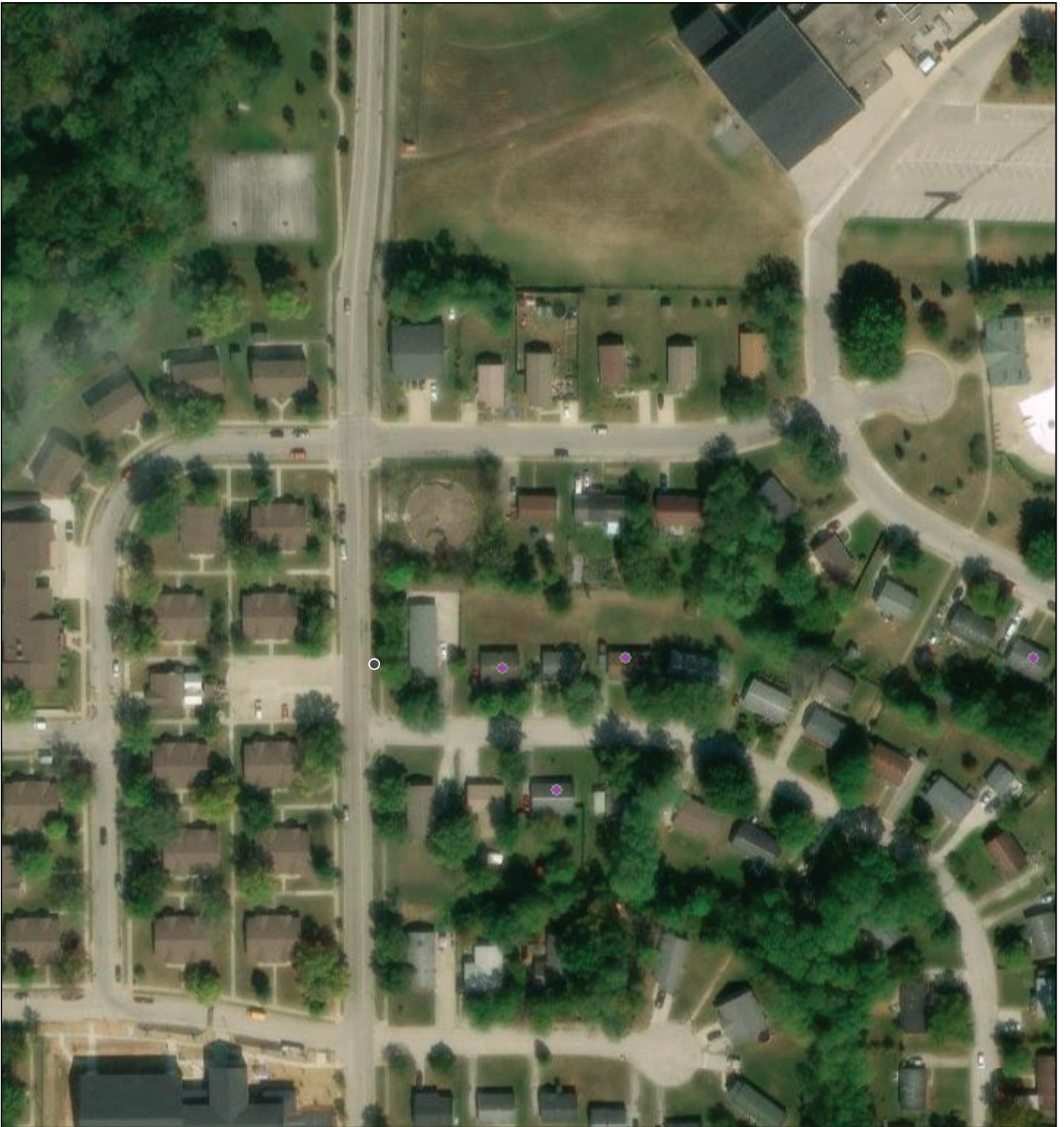


Map Legend

- Contributing
- Monroe County Parcels
- Building Areas



1020 N Monroe St, Bloomington, IN SHAARD Map

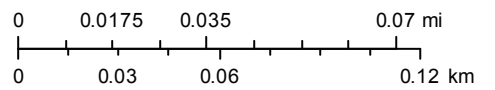


9/5/2023, 2:59:58 PM

County Survey Sites

● Contributing

1:2,257

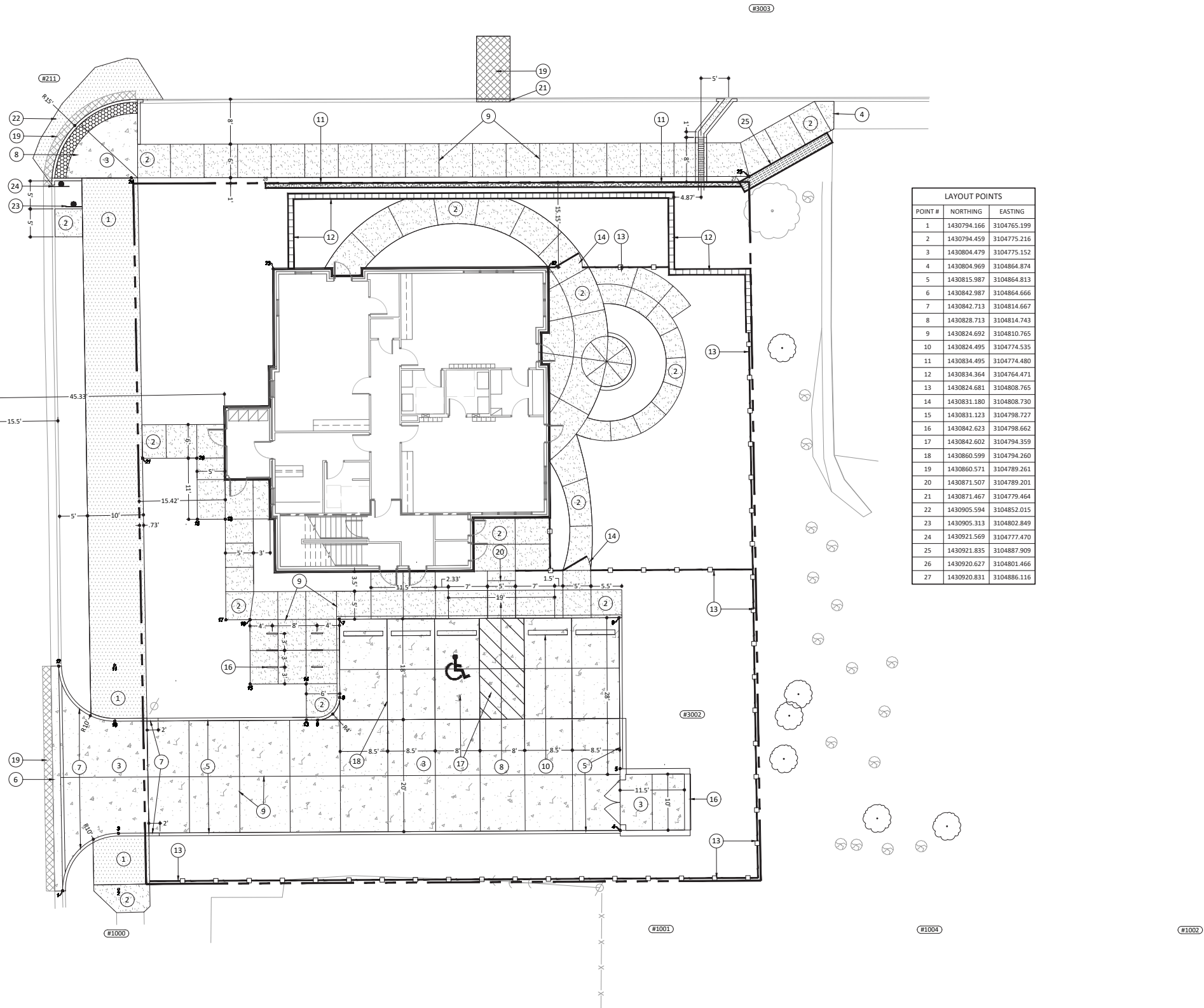


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

14th STREET
(PUBLIC - 60' R/W - ASPHALT)

MONROE STREET
(PUBLIC - 60' R/W - ASPHALT)

APPROXIMATE CENTERLINE



GENERAL NOTES

- A. ALL DIMENSIONS ARE TO FACE OF CURB, POINT OF TANGENCY, EDGE OF PAVEMENT, EDGE OF WALK, FACE OF BUILDING OR FENCELINE, UNLESS OTHERWISE NOTED. CURB RETURN RADII ARE TO FACE OF CURB. COORDINATE DIMENSIONS WITH ARCHITECTURAL. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- B. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- C. ALL DISTURBED AREAS SHALL RECEIVE 6" OF TOP SOIL, SEED AND MULCH OR BE IMPROVED AS NOTED OTHERWISE.
- D. SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ADA, AND CITY UDD.
- E. ALL STREET CUTS FOR UTILITIES AND OTHER IMPROVEMENTS SHALL BE REPAIRED TO MATCH EXISTING PAVEMENT SECTION OR BETTER.

PLAN NOTES

- 1. ASPHALT PAVEMENT - MULTI-PURPOSE PATH - REFER TO DETAIL 7/C701
- 2. CONCRETE PAVEMENT, STANDARD DUTY - REFER TO DETAIL 2/C701
- 3. CONCRETE PAVEMENT, HEAVY DUTY - REFER TO DETAIL 1/C701
- 4. EXISTING CONCRETE TO NEW CONCRETE - REFER TO DETAIL 3/C701
- 5. STANDING CONCRETE CURB - REFER TO DETAIL 5/C701
- 6. MOUNTABLE CURB AND GUTTER - REFER TO DETAIL 6/C701
- 7. CONCRETE CURB TRANSITION - REFER TO DETAIL 8/C701
- 8. INDOT STANDARD ADA COMPLIANT SIDEWALK RAMP. CAST IRON DETECTABLE WARNING PLATES BY EAST JORDAN IRON WORKS OR NEENAH FOUNDRY PER CITY ENGINEERING'S DETECTABLE WARNING SURFACES APPROVED MATERIAL LIST ARE REQUIRED ON THE RAMP AT THE INTERSECTION OF 14TH AND MONROE AS INDICATED - REFER TO DETAIL 14/C701
- 9. EXPANSION AND/OR SCORE JOINT (TYPICAL) - REFER TO DETAIL 2/C701
- 10. CONCRETE WHEEL STOP - REFER TO DETAIL 4/C701
- 11. CONCRETE RETAINING WALL - REFER TO STRUCTURAL PLANS
- 12. FREE STANDING MASONRY WALL - REFER TO ARCHITECTURAL PLANS
- 13. FENCE - REFER TO ARCHITECTURAL PLANS
- 14. 5' GATE - REFER TO ARCHITECTURAL PLANS
- 15. DUMPSTER ENCLOSURE - REFER TO ARCHITECTURAL PLANS
- 16. BICYCLE PARKING TO MEET CITY OF BLOOMINGTON REQUIREMENTS - 6 RACKS, 12 SPACES
- 17. ADA COMPLIANT VAN PARKING SPACE: INCLUDES PAVEMENT MARKING, 4" WIDE, BLUE, PAINTED WHEELCHAIR SYMBOL, CONCRETE WHEEL STOP AND VAN ACCESSIBLE SUPPLEMENTAL SIGN - REFER TO DETAILS 4/C701 AND 10/C701
- 18. PAVEMENT MARKING, 4" WIDE WHITE PAINT - AUTO PARKING
- 19. PAVEMENT PATCH - REFER TO DETAIL 12/C701
- 20. CONCRETE STEP WITH 6" RISER - REFER TO DETAIL 16/C701
- 21. CONCRETE CURB OR CURB AND GUTTER TO MATCH EXISTING
- 22. MILL AND WEDGE ASPHALT
- 23. RELOCATED EXISTING BUS STOP SIGN
- 24. RELOCATED EXISTING STOP SIGN
- 25. SEGMENTAL BLOCK RETAINING WALL, GRAVITY TYPE ONLY.

SITE CHARACTERISTICS

TOTAL AREA: 0.316 ACRES
PERVIOUS AREA: 0.143 ACRES, 45 %
IMPERVIOUS AREA: 0.173 ACRES, 55 %

LEGEND

- LIMITS OF NEW ASPHALT PAVEMENT
- LIMITS OF NEW STANDARD DUTY CONCRETE PAVEMENT
- LIMITS OF NEW HEAVY DUTY CONCRETE PAVEMENT
- PAVEMENT STRIPING 2' O.C.



213 SOUTH ROGERS STREET,
SUITE 5
BLOOMINGTON, INDIANA 47404
812.318.2930
www.springpointarchitects.com



1551 West Tapp Road Bloomington, Indiana 47403
Phone: 812-338-6277 www.brcjiv.com
BRCJ PROJECT NUMBER: 10389

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project title

**BHA
CHILD CARE CENTER
& APARTMENTS**
WEST 14TH STREET
BLOOMINGTON, IN

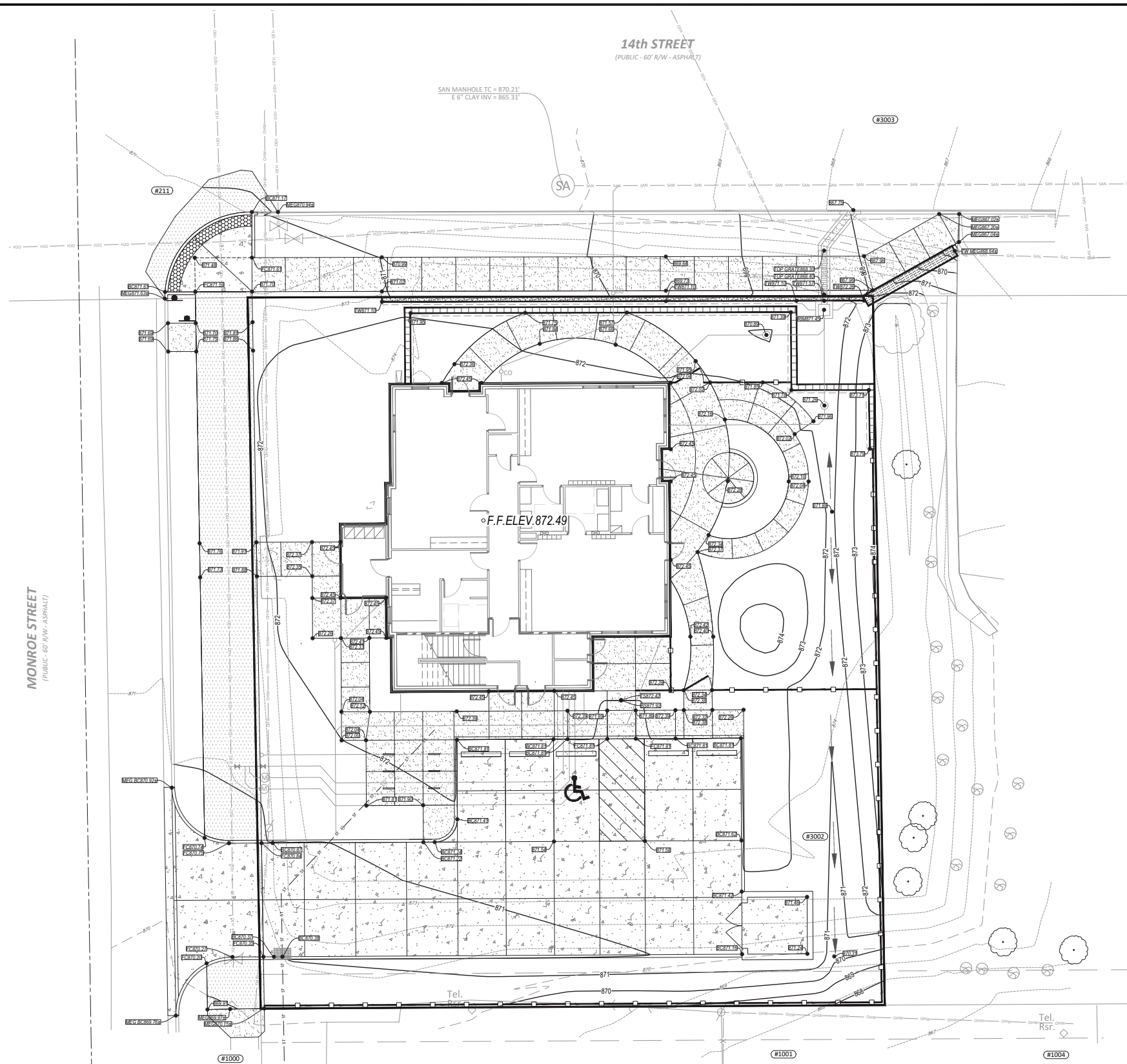
project information

PROJECT NUMBER: 20-01
ISSUE DATE: 4.13.23
REVISION DATE: 4.04.23

sheet title
**SITE IMPROVEMENT
PLAN**

sheet number

C401



- ### GENERAL NOTES
- GRADE ALL AREAS TO THE FINISH GRADES SHOWN.
 - CONTRACTOR TO VERIFY FIELD CONDITIONS WITH RESPECT TO THE PROPOSED GRADING PLANS AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO BEGINNING WORK.
 - INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED AND WHERE NECESSARY TO CONTROL SEDIMENT.
 - CONTRACTOR SHALL PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES AND FROM FLOODING PROJECT SITE AND SURROUNDING AREAS. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT AND DAMAGE BY RAIN OR WATER ACCUMULATION. THIS WILL REQUIRE SUPPLEMENTAL GRADING ABOVE AND BEYOND THAT SHOWN.
 - CONTRACTOR SHALL ADJUST ALL CASTINGS TO FINISHED GRADE.
 - CONTRACTOR SHALL ESTABLISH FINISH GRADES TO ENSURE POSITIVE DRAINAGE WITH NO PONDING.
 - LONGITUDINAL SIDEWALK SLOPE SHALL NOT EXCEED 5%, UNLESS NOTED OTHERWISE. TRANSVERSE SIDEWALK SLOPE SHALL NOT EXCEED 1.5% UNLESS NOTED OTHERWISE.
 - SPOT GRADES GIVEN AT THE FACE OF CURB INDICATE PAVEMENT EDGE/CURB INTERFACE (FLOW LINE) ELEVATION, UNLESS NOTED OTHERWISE. BOTTOM OF WALL ELEVATIONS INDICATE WHERE FINISH GRADE AND WALL MEET.
 - ALL SLOPES 3:1 OR GREATER TO BE COVERED WITH NORTH AMERICAN GREEN SB150N EROSION CONTROL BLANKET OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

springpoint
ARCHITECTS, PC

213 SOUTH ROGERS STREET,
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BLOOMINGTON, INDIANA 47404
812.318.2930
www.springpointarchitects.com



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project title

**BHA
CHILDREAN CENTER
& APARTMENTS**
BLOOMINGTON, IN
WEST 14TH STREET

- ### LEGEND
- PROPOSED CONTOURS
 - EXISTING CONTOURS
 - SPOT ELEVATION
 - MATCH EXISTING GRADE
 - TOP OF WALL
 - BOTTOM OF WALL AT FINISH GRADE ELEVATION
 - TOP OF STAIR - ELEVATION IS EQUAL ACROSS WIDTH
 - BOTTOM OF STAIR - ELEVATION IS EQUAL ACROSS WIDTH
 - BOTTOM OF CURB WHERE IT MEETS PAVEMENT. FOR STANDING AND CHAIR BACK CURBS, TOP OF CURB IS 6" ABOVE THIS ELEVATION UNLESS NOTED OTHERWISE. FOR ROLL CURBS, TOP OF CURB IS 3.5" ABOVE THIS ELEVATION, UNLESS NOTED OTHERWISE
 - FLOW LINE
 - FLUSH CURB - CURB IS IN FULLY DEPRESSED CONDITION
 - TOP OF CURB - PROVIDED ONLY WHEN CURB IS IN A NONSTANDARD HEIGHT CONDITION.
 - TOP OF BANK
 - LIMITS OF NEW ASPHALT PAVEMENT
 - LIMITS OF NEW STANDARD DUTY CONCRETE PAVEMENT
 - LIMITS OF NEW HEAVY DUTY CONCRETE PAVEMENT
 - PAVEMENT STRIPING 2' O.C.

project information

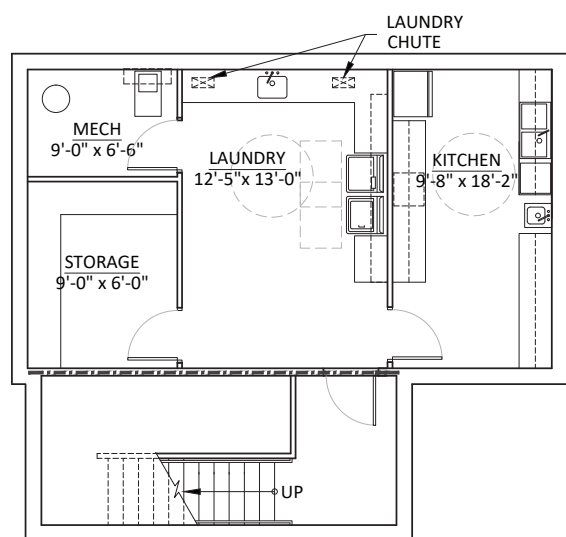
PROJECT NUMBER: 20-01
ISSUE DATE: 4.13.23
REVISION DATE: 4.04.23

sheet title
SITE GRADING PLAN

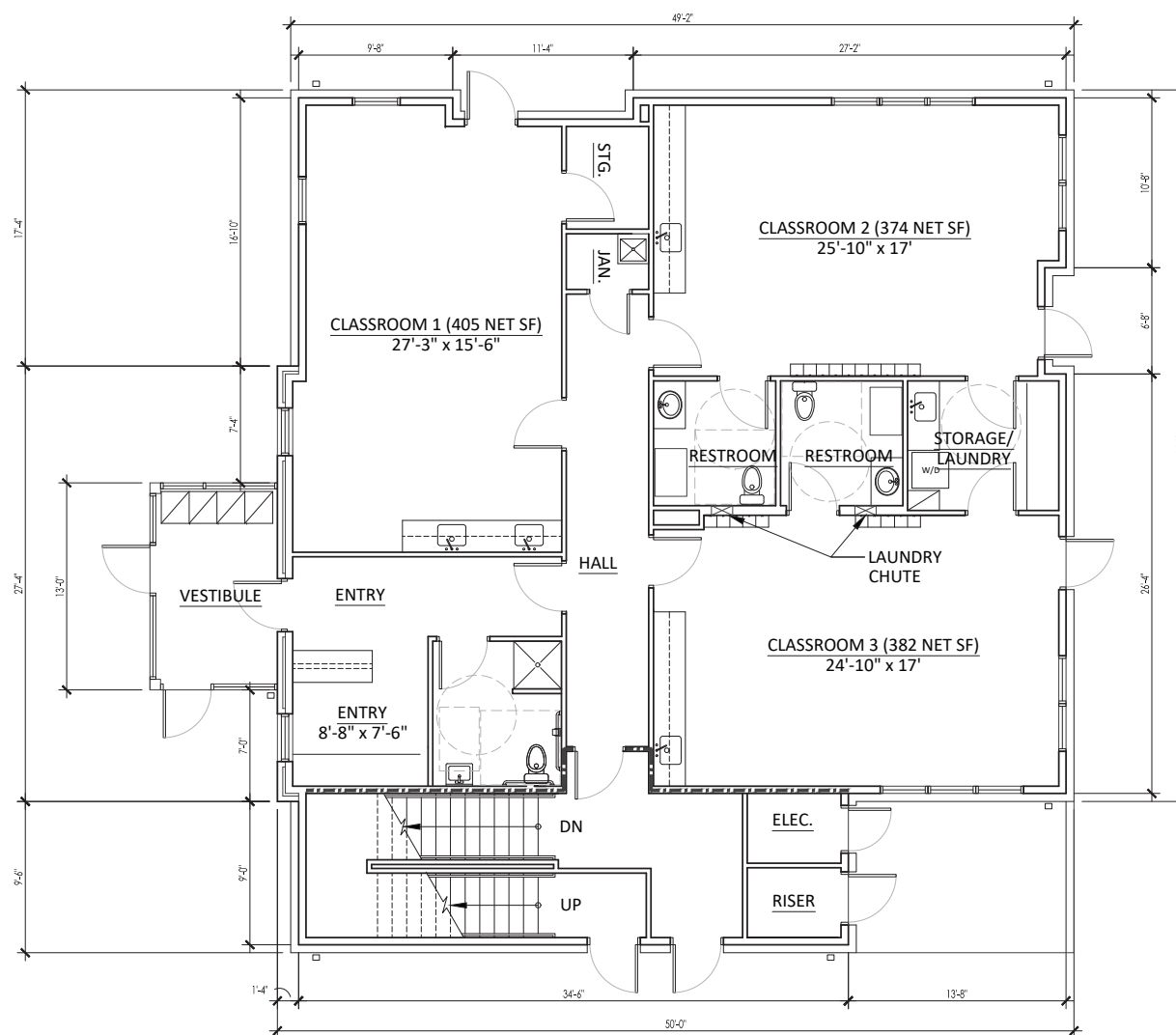
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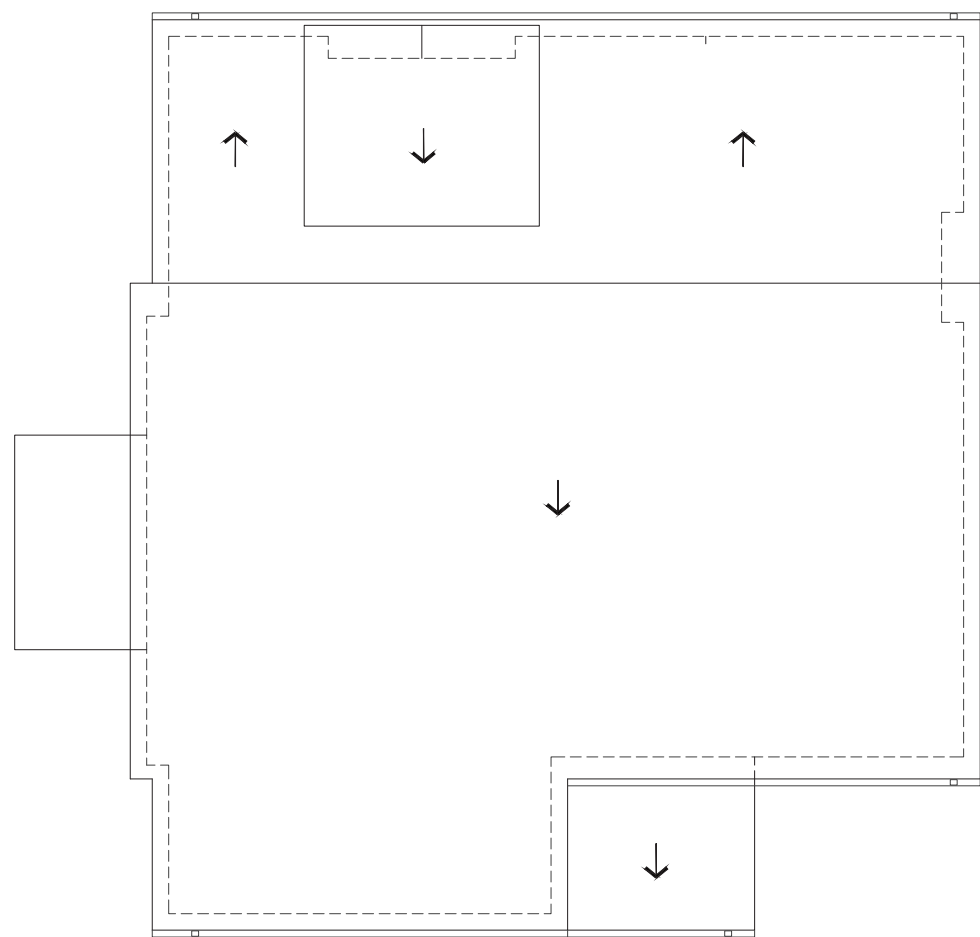
C501



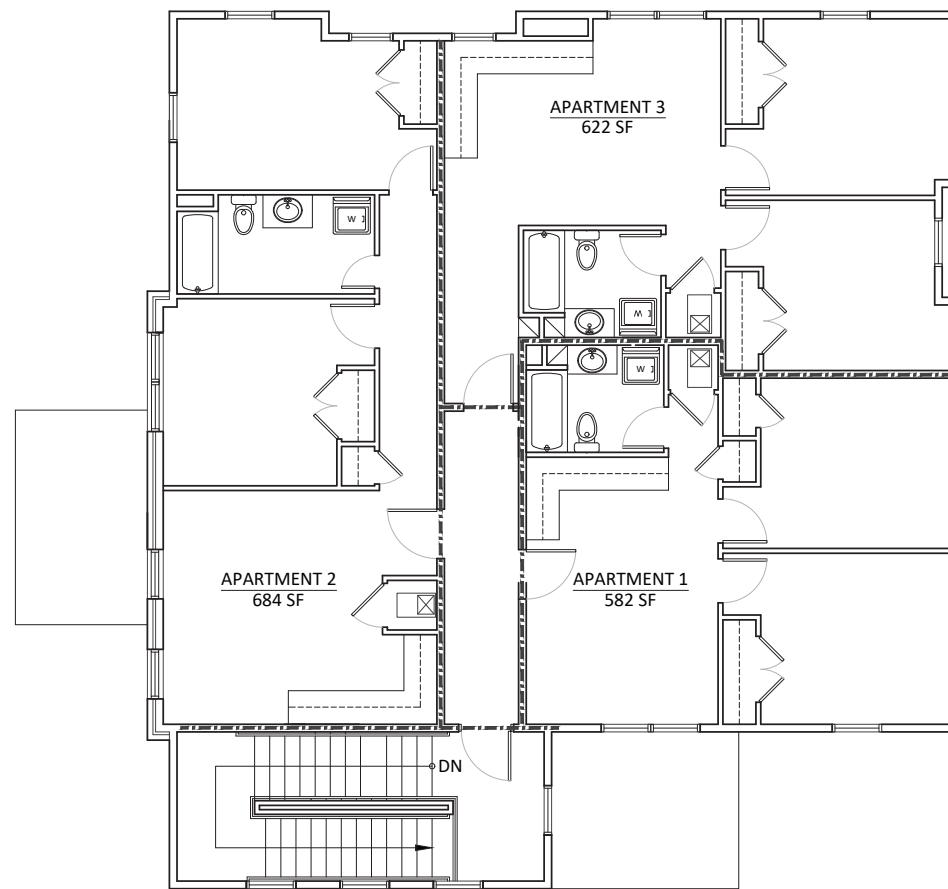
B BASEMENT FLOOR PLAN ↑
SCALE: 3/16" = 1'-0"



A MAIN FLOOR PLAN ↑
SCALE: 3/16" = 1'-0"



B ROOF PLAN ↑
SCALE: 3/16" = 1'-0"

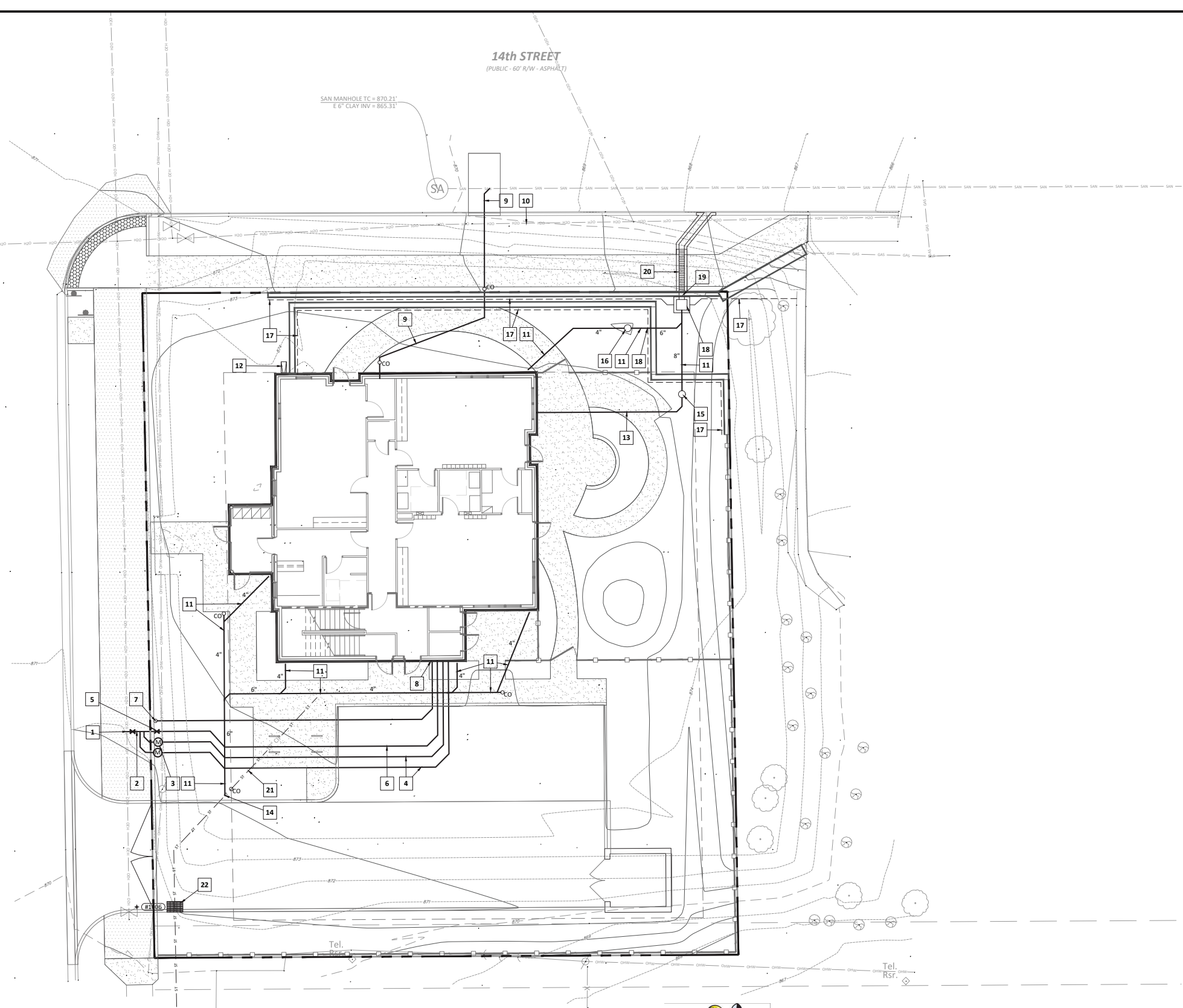


A UPPER FLOOR PLAN ↑
SCALE: 3/16" = 1'-0"

14th STREET
(PUBLIC - 60' R/W - ASPHALT)

SAN MANHOLE TC = 870.21
E 6" CLAY RW = 885.31

MONROE STREET
(PUBLIC - 60' R/W - ASPHALT)



GENERAL NOTES

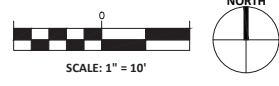
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING AS REQUIRED TO COMPLETELY INSTALL THE WORK INDICATED.
- B. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE OWNER AND LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. CONTACT INDIANA 811 AT 1-800-392-5544 AND OTHER UTILITIES PRIOR TO ANY EXCAVATION ON THE SITE.
- C. ALL WORK ASSOCIATED WITH WATER AND SEWER SYSTEMS SHALL COMPLY WITH THE STANDARDS & REQUIREMENTS OF THE INDIANA DEPT. OF ENVIRONMENTAL MANAGEMENT (IDEM), THE INDIANA STATE DEPARTMENT OF HEALTH (ISDH), THE AMERICAN WATER WORKS ASSOCIATION (AWWA), THE GREAT LAKES-UPPER MISSISSIPPI BOARD OF STATE PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS (GLUMRB), THE INDIANA PLUMBING CODE AND THE CITY OF BLOOMINGTON UTILITIES CONSTRUCTION SPECIFICATIONS.
- D. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- E. CONTRACTOR SHALL SET ALL EXISTING AND PROPOSED CASTINGS AND CLEANOUT COVERS TO FINAL FINISHED GRADE.
- F. A MINIMUM OF 18 INCHES VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SANITARY/STORM SEWER UNLESS OTHERWISE INDICATED, OR UNLESS WRITTEN PERMISSION IS GIVEN BY THE ENGINEER. SEWERS CROSSING WATER MAINS SHALL BE LAID TO MAINTAIN A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND OUTSIDE OF THE SEWER MAIN. THIS SHALL BE THE CASE WHETHER THE WATER MAIN IS ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE JOINTS IN THE SEWER MAIN WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE JOINTS IN THE WATER MAIN. THE CROSSING MUST BE AT A MINIMUM ANGLE OF 45° MEASURED FROM THE CENTERLINE OF THE SEWER AND WATER MAINS. WHERE A WATER MAIN CROSSES UNDER A SEWER, AN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.
- G. A MINIMUM OF 30 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SANITARY/STORM SEWER UNLESS OTHERWISE INDICATED, OR UNLESS WRITTEN PERMISSION IS GIVEN BY THE ENGINEER.
- H. ALL STORM AND SANITARY MANHOLES AND STORM INLET STRUCTURES SHALL HAVE A MINIMUM SEPARATION OF 8' FROM WATER MAINS.
- I. ALL SANITARY LATERALS SHALL HAVE A MINIMUM COVER OF 30" UNLESS NOTED OTHERWISE.
- J. ALL STORM LATERALS SHALL HAVE A MINIMUM COVER OF 24" UNLESS NOTED OTHERWISE.
- K. ALL SANITARY AND STORM LATERALS SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT UNLESS NOTED OTHERWISE.
- L. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 48". INSTALL LINES WITH NO ISOLATED HIGH POINTS.
- M. WHERE DISSIMILAR PIPING MATERIALS ARE JOINED TOGETHER ALONG GRAVITY SANITARY AND STORM LATERALS, THE CONTRACTOR SHALL USE A NON-SHEAR COUPLING EQUAL TO FERRO.
- N. PRE-CONSTRUCTION MEETING: EFFECTIVE MARCH 1, 2010, ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON UTILITIES (CBU) PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT THE UTILITIES TECHNICIAN AT (812)349-3676 TO SCHEDULE THE MEETING.
- O. UTILITIES INSPECTION: CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CBU INSPECTOR MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND A PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS ON WEEKENDS, OR BEYOND DESIGNATED HOLIDAY, OR BEYOND NORMAL CBU WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CBU WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON UTILITIES DEPARTMENT AT (812)349-3660.
- P. ALL DUCTILE IRON PIPER AND FITTINGS SHALL BE PRESSURE CLASS 350 INSTALLED WITH MECHANICAL JOINT RESTRAINTS AND POLYETHYLENE ENCASEMENT.
- Q. PROVIDE AND INSTALL INSULATED #12 AWG COPPER CLAD STEEL LOCATE WIRE ON ALL PVC OR POLYETHYLENE WATER, SANITARY AND STORM LINES.

PLAN NOTES

- 1. 6" WATER SERVICE CONNECTION. CONTRACTOR TO COORDINATE WITH CITY OF BLOOMINGTON UTILITIES (CBU) AND APPLY FOR TAP AT LEAST 48 HOURS IN ADVANCE. CONTRACTOR TO EXPOSE WATER MAIN, INSTALL TAPPING SLEEVE AND VALVE AND ALLOW CBU TO TAP THE MAIN. CONTRACTOR TO PLACE VALVE BOX, BACKFILL, AND REPAIR EXISTING CONDITIONS. CONTRACTOR RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH TAPPING THE MAIN - REFER TO DETAIL 2/C702.
- 2. 6" PRIVATE COMBINED WATER SERVICE LINE. AWWA C900 DR 14 PVC PIPE WITH DUCTILE IRON FITTINGS AND MECHANICAL JOINT RESTRAINTS. ALL JOINTS TO BE RESTRAINED.
- 3. METER PIT FOR 2" PRIVATE DOMESTIC METER AND YOKE. COORDINATE WITH CBU. CONTRACTOR RESPONSIBLE FOR SERVICE SADDLE, CORPORATION STOP, CURB STOP, AND ASSOCIATED MATERIALS REQUIRED BY CBU. CBU TO INSTALL METER SETTER AND METER. REFER TO DETAIL 5/C702. CONTRACTOR RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH INSTALLING THE DOMESTIC SERVICE AND METER.
- 4. 2" PRIVATE DOMESTIC WATER SERVICE LINE. ASTM 888 TYPE K COPPER OR BLUE POLYETHYLENE AWWA 901 PE 4710 ASTM D2737, CTS SDR 9 PC 250 PIPE.
- 5. SUPERVISED POST INDICATOR VALVE (PIV) - REFER TO DETAIL 9/C702. CONFIRM LOCATION WITH BLOOMINGTON FIRE CHIEF. REFER TO E AND/OR FP SERIES DRAWINGS FOR ASSOCIATED WIRING TO THE TAMPERPROOF SWITCH.
- 6. 6" PRIVATE FIRE PROTECTION WATER SERVICE LINE. PRESSURE CLASS 350 DUCTILE IRON PIPE AND FITTINGS WITH MECHANICAL JOINT RESTRAINTS AND POLYWRAP. ALL JOINTS TO BE RESTRAINED.
- 7. FIRE DEPARTMENT CONNECTION (FDC) AND 4" PRIVATE FIRE PROTECTION WATER SERVICE LINE. PRESSURE CLASS 350 DUCTILE IRON PIPE AND FITTINGS WITH MECHANICAL JOINT RESTRAINTS AND POLYETHYLENE ENCASEMENT. FDC SERVICE LINE TO SLOPE DOWNWARD FROM BUILDING TO FDC. ALL JOINTS TO BE RESTRAINED. STORZ TYPE FDC WITH 30 DEGREE BEND. INCLUDE WAGER CHECK VALVE AND DRAIN DOWN AT FDC STAND PIPE. REFER TO DETAIL 8/C702. CONFIRM LOCATION WITH BLOOMINGTON FIRE CHIEF.
- 8. DETECTOR METER RADIO HEAD TOUCH PAD AND CONDUIT TO FIRE PROTECTION RISER. REFER TO CBU STANDARD DETAIL 34 AND E-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WITH CBU.
- 9. PRIVATE SANITARY WASTE LINE. 6" ASTM SDR 35 PVC GASKETED SLIP JOINT PIPE AND FITTINGS TO BE INSTALLED WITH A MINIMUM OF 30" OF COVER. TRANSITION TO AWWA C900 DR 14 PVC PIPE AND FITTINGS AT THE CLEANOUT ALONG THE PROPERTY LINE TO CROSS THE WATER MAIN. CONNECT TO EXISTING 8" SANITARY SEWER MAIN. COORDINATE WITH CBU. CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND EXPOSURE OF THE SEWER MAIN TO ALLOW CBU TO CUT IN A WYE, ALL BACKFILL, ASSOCIATED PAVEMENT RESTORATION AND ALL CBU EXPENSES.
- 10. VACUUM EXCAVATE TO VERIFY DEPTH OF EXISTING 8" PUBLIC WATER MAIN. REFER TO GENERAL NOTE F. IF VERTICAL CLEARANCE WILL BE LESS THAN 18" BETWEEN MAIN AND SEWER LATERAL.
- 11. DOWNSPOUT COLLECTION AND DRAINAGE PIPE - ASTM D 3034 SDR 35 PVC, GASKETED SLIP JOINT PIPE AND FITTINGS. CONFIRM LOCATION OF DOWNSPOUT WITH ARCHITECTURAL DRAWINGS. SIZE AS INDICATED. AT EACH DOWNSPOUT, INCLUDE A STAINLESS STEEL ADAPTER TO CONNECT TO THE COLLECTION PIPE BY FRIEDMONT OR APPROVED EQUAL.
- 12. CONCRETE SPLASH BLOCK, REFER TO DETAIL 1/C702.
- 13. FOUNDATION DRAIN COLLECTION PIPE - ASTM D 3034 SDR 35 PVC, GASKETED SLIP JOINT PIPE AND FITTINGS. REFER TO ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR FOUNDATION DRAIN. MATCH SIZE OF PIPE.
- 14. CONTRACTOR TO FIELD VERIFY LOCATION OF THE EXISTING 10" CAST IRON PIPE (CIP) AND CONNECT DOWNSPOUT COLLECTION PIPING, INCLUDING CLEANOUT.
- 15. INLINE DRAIN BY NYLOPLAST OR APPROVED EQUAL WITH 6" SDR 35 PVC RISER AND 8" CAST IRON STANDARD GRATE. SET TOP OF CAST AT ELEVATION 871.26.
- 16. INLINE DRAIN BY NYLOPLAST OR APPROVED EQUAL WITH 6" SDR 35 PVC RISER AND 8" CAST IRON STANDARD GRATE. SET TOP OF CAST AT ELEVATION 870.89.
- 17. RETAINING WALL FOOTING DRAIN - REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 18. INLET - TYPE 1 BOX WITH E1 6500 DITCH GRATE. REFER TO DETAIL 11/C701. PROVIDE 3"x10" RECTANGULAR OPENING AT INVERT FOR CONNECTION THRU WALL TO SIDEWALK TRENCH DRAIN. CONNECT 8" SDR 35 PVC DRAINAGE PIPE AND RETAINING WALL FOOTER DRAINS PER DETAIL 10/C702.
- 19. 3"x10" RECTANGULAR PENETRATION THRU RETAINING WALL. REFER TO DETAIL 10/C702 AND SECTION A/L201.
- 20. SIDEWALK TRENCH DRAIN, ERW V7383-20W WITH V7320 BOLTED RAILS. 10" WIDE CONCRETE COLLAR AND TRENCH AS INDICATED. CONTINUE 10" WIDE x 5" DEEP CONCRETE TRENCH TO 14" STREET. MODIFY EXISTING CURB TO ACCEPT TRENCH - REFER TO DETAIL 4/C702.
- 21. REMOVE UNUSED PORTION OF THE EXISTING 10" CIP OR ABANDON IN PLACE, FILL WITH FLOWABLE CEMENTIOUS FILL, AND CAP BOTH ENDS.
- 22. INLET - TYPE 1 BOX WITH E1 7030 CATCH BASIN CURB INLET, TYPE 11 BACK, AND M4 VANE GRATE. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 10" CIP FOR FINAL POSITION OF INLET. CUT AND REMOVE SECTION OF PIPE TO ACCEPT INLET. SEAL ANNULAR OPENINGS WATER TIGHT WITH NON-SHRINK GROUT. SET TOP OF CASING ALONG CURB LINE AT ELEVATION 870.38 - REFER TO DETAIL 11/C701.

LEGEND

- LIMITS OF NEW ASPHALT PAVEMENT
- LIMITS OF NEW STANDARD DUTY CONCRETE PAVEMENT
- LIMITS OF NEW HEAVY DUTY CONCRETE PAVEMENT
- PAVEMENT STRIPING 2' O.C.



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project title

**BHA
CHILDREAN CENTER
& APARTMENTS**
BLOOMINGTON, IN
WEST 14TH STREET

project information

PROJECT NUMBER: 20-01
ISSUE DATE: 4.13.23
REVISION DATE: 4.13.23

sheet title
SITE UTILITIES PLAN

sheet number

C601



D EAST ELEVATION
SCALE: 1/8" = 1'-0"



B SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



C NORTH ELEVATION
SCALE: 1/8" = 1'-0"



A WEST ELEVATION
SCALE: 1/8" = 1'-0"