Monroe County Historic Preservation Board of Review



Monday, September 18, 2023 5:30 p.m.

Hybrid Meeting

In-person Monroe County Government Center Planning Department 501 N. Morton Street, Room 100B Bloomington, IN 47404

<u>Virtual</u>

Zoom Link: https://monroecounty-in.zoom.us/j/85490430168? pwd=OGIxT0JENUFVN0ovM24vaWdxMnFzUT09 If calling into the Zoom meeting, dial (312) 626 6799 Meeting ID: 854 9043 0168 Password: 214096

AGENDA

MONROE COUNTY HISTORIC PRESERVATION

BOARD OF REVIEW

Monday, September 18, 2023

5:30 PM

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1) Call to Order

2) Approval of Meeting Minutes: May 15, 2023

3) Administrative Business

a) Reminder: Preserving Historic Places Conference, September 19-22, Muncie, IN

4) Old Business

- a) Potential Overlay District for Sunset Hill
- b) Coordination Letter, FHWA Project: INDOT Des. No. 2200020; High Street Multi-Use Path; Monroe County, Indiana
- c) INDOT Early Coordination Letter: Hot Mixed Asphalt (HMA) Overlay, Minor Structural Project along SR 46, from the SR 446 intersection to the W Junction (JCT) of SR 135
- d) Bloomington Ops Tower (Project) Historic Properties Review
- e) Future Road Work Project: On-Ramp to I-69 via W Arlington Road from Stonelake Drive
- f) FHWA Project Des. No. 1801941; Mid-States Corridor Project Tier 1 FEIS PAGE 7

5) New Business

- a) Section 106 Letter: Habitat for Humanity 1505 N Breckenridge RD PAGE 15
- b) Section 106 Letter: New Sidewalk & Accessibility Ramp 410 W Kirkwood AVE PAGE 51
- c) Section 106 Letter: CDBG Physical Improvement Grant 1020 N Monroe ST **PAGE 86 PAGE 97**
- d) 2023 Work Plan Updates

6) Adjournment

NEXT MEETING: October 16, 2023

Anyone who requires an auxiliary aid or service for effective communication, or a modification of policies or procedures to participate in a program, service, or activity of Monroe County, should contact Monroe County Title VI Coordinator Angie Purdie, (812)-349-2553, apurdie@co.monroe.in.us, as soon as possible but no later than forty-eight (48) hours before the scheduled event.

Individuals requiring special language services should, if possible, contact the Monroe County Government Title VI Coordinator at least seventy-two (72) hours prior to the date on which the services will be needed.

The meeting will be open to the public.

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DRAFT MINUTES

MONROE COUNTY HISTORIC PRESERVATION

BOARD OF REVIEW

Monday, May 15, 2023

5:30 PM

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IN-PERSON: Monroe Government Center 501 N Morton ST Room 100 B, Bloomington IN 47404 VIRTUAL LINK: https://monroecounty-

in.zoom.us/j/82305485858?pwd=c2lrWFp0eGFNQUtqK0NQQlFLazRTQT09

If calling into the Zoom meeting, dial: 312-626-6799. When prompted, enter the Meeting ID #: **823 0548 5858** Password: **214096**

Attendees:	Debby Reed, Devin Blankenship, Donn Hall, Don Maxwell, Polly Root Sturgeon, Susan
	Snider Salmon
Absent:	Duncan Campbell, Doug Wilson
Staff:	Drew Myers, Tech Services to assist with meeting
Public:	None.

1) Call to Order @ 5:32 PM.

2) Approval of Meeting Minutes: None.

3) Administrative Business:

- a) Follow-up to potential HP Overlay District for Sunset Hill (fka. Annexation Area 4)
- Myers: Spoke with Commissioner Thomas to schedule a date and time to meet an interested property owner and discuss the HP Overlay and tour the neighborhood.

b) RD-23-1 – HPB to provide comment or staff can use letter provided from the PUO

- Myers: Summarized the status of the petition. Planning Staff is seeking formal comment from HP Board to be included in the presentation at the next Plan Commission Administrative meeting where this petition will be discussed. Planning Staff is looking to hear from the HP Board on their preference to have W Hunter Valley RD extend to the intersection of W State Road 46 or extend further all the way the roundabout intersection with W Woodyard RD.
- Sturgeon: Clarified that the historical Hunter Valley area does not extend west that far.
- Blankenship: Reiterated that this portion of roadway transitions from a North-South direction to a East-West direction. Changing the name from N Curry PIKE to W Hunter Valley RD in this area makes sense in this regard. Deferred to the County's addressing authority's preference with this recommendation.
- Maxwell: Concerned about changing road names at a roundabout that is already considered unsafe.
- Reed: Explained that this section of road is closer to the Hunter Valley historic area than it is the Curry historic area. Also mentioned how the historic Hunter Valley Limestone District map could be used to compare to current day maps to give a better idea of western boundary of Hunter Valley.
- Blankenship: Asked if the historic map includes township lines and if it has been scanned.

Reed:	Stated she was unsure if the township lines are depicted on the old map and reminded the Board that said map was included in the letter to the Plan Commission in support of preserving the Hunter Valley Road name.
Maxwell:	Retracted his earlier comment and is now in support of changing the road name up to the roundabout intersection citing the road's change in direction to a more East-West direction as well as the legacy being more in lined with Hunter Valley than Curry.
Snider Salmon	: Questioned if the Board's determination this evening was more of a broad determination of unique to this specific situation with respect to Hunter Valley RD.

Myers: Stated the discussion and recommendation is specific to this situation.

[Discussion of how the Board's recommendation letter will be drafted and provided to the Plan Commission for the Administrative meeting].

Reed: Mentioned for the record that the area immediately adjacent to the west and south of I-69 in this area has various types of limestone. All of it may not be marketable, but it is worth mentioning.

c) Limestone Symposium Request (added late; not on original agenda)

- Myers: Stated that Patty Robertson of the Indiana Limestone Symposium reached out to request someone from the Historic Preservation Board to give a presentation during this year's symposium or recommend someone who may be interested.
- Sturgeon: Mentioned she gave a presentation last year and was asked this year as well; however, her schedule is too busy.
- Reed: Suggested Todd Schnatzmeyer of the Indiana Limestone Institute or the retired director of the Institute, Jim Owens.

d) New Rumpke Facility Open House Invitation

Myers: Informed the Board that they are invited to Rumpke's Ceremonial Ribbon Cutting and Open House event from 11am – 2pm. The Dry Stone Conservancy will be in attendance and will perform a dry stone wall repair demonstration and feature the work they have already completed.

[Discussion on Susan's upcoming presentation for the Monroe County History Club – "If Stone Walls Could Talk" on May 30, 2023].

4) Old Business

a) Coordination Letter, FHWA Project: INDOT Des. No. 2200020; High Street Multi-Use Path; Monroe County, Indiana

- Myers: Reported there are no updates from staff on this topic. MCHP to remain a consulting party. Opened the floor for discussion.
 - b) Dry Stone Conservancy Report Rumpke Stone Wall Preservation & Maintenance Plan

Myers: Removed the above item from the agenda as the Rumpke project is almost finished.

c) INDOT Early Coordination Letter: Hot Mixed Asphalt (HMA) Overlay, Minor Structural Project along SR 46, from the SR 446 intersection to the

W Junction (JCT) of SR 135

Myers: Reported there are no updates from staff on this topic. MCHP to remain a consulting party. MCHP should send a follow-up email with more information regarding potentially affected historic resources, like the geologically sensitive bioherm present in the potential area of effect.

d) Bloomington Ops Tower (Project) – Historic Properties Review

Myers: Reported there are no updates from staff on this topic. MCHP's last message to the project coordinator conveyed a general objection to the project at this location.

e) Future Road Work Project: On-Ramp to I-69 via W Arlington Road from Stonelake Drive

Myers: Reported there are no updates from staff on this topic. Opened the floor for discussion.

f) FHWA Project Des. No. 1801941; Mid-States Corridor Project Tier 1 EIS, Consulting Party Letter; New Terrain Roadway

Myers: Reported there are no updates from staff on this topic. MCHP to remain a consulting party. At last meeting, Board determined they had no comment given project does not cross into Monroe County.

g) Early Coordination Letter, FHWA Project: INDOT Des. No. 2002978

Myers: Reported there are no updates from staff on this topic. MCHP to remain a consulting party. Opened the floor for discussion.

5) New Business

a) 2023 Work Plan Updates

- Myers: Opened the floor to discussion of project updates.
- Sturgeon: Mentioned that Limestone Festival is about a month away. More vendors will be present than years past. More word will be put out this year. A postcard will go out to ever staff member of the IU Bloomington campus regarding this year's Limestone Festival. Stated that Susan will be staffing the HP booth for this year's festival.
- Snider Salmon: Stated that help setting up the booth would be appreciated. Mentioned she will be talking mostly about the ongoing dry stone walls project at the HP Board's booth.
- Sturgeon: Talked about the upcoming limestone teachers' workshop. Gave a synopsis of the workshop's itinerary.

[Discussion on the details of the workshop, how it's been marketed, who can sign up, how many, etc.].

- Blankenship: Asked if it was Susan or someone else that was going to talk to Cheryl Munson about the driving tour flyers.
- Snider Salmon: Said she talked with her briefly but talked with the Monroe County Library and found one embedded in a folder at the History Center.
- Blankenship: Informed the Board that he has PDF versions of Harrodsburg, Maple Grove, Sanders-Smithville driving tours, but he does not have the originals.

Snider Salmon	: Asked if the driving tours could be project for which the Board seeks grant money to update the tours.		
Blankenship:	Stated that it is possible, especially considering that more information can be added to them including dry stone wall information as it becomes more available through Susan's research.		
Snider Salmon	: Mentioned she wanted to include information regarding the historic limestone districts into the driving tours.		
Reed:	Voiced her support for including the historic limestone districts in the tours. Asked if there was some way that MCHP Board could be notified when there is proposed development in these areas.		
Myers:	Talked about a possible GIS layer for the boundaries of historic limestone districts if we can find enough data to provide to the GIS Coordinator or Elevate GIS.		
Sturgeon:	Mentioned that the old maps have never been geo-referenced; just hand drawn.		
Reed:	Recommended IU Geology Library and IGWS as a data reference.		
Blankenship:	Mentioned the existence of a past intern project that included a map of historic sites for a bicycle tour.		
Reed:	Recommended another data source as Willis Blatchley. He wrote several good books that may be useful for knowing more about the limestone districts.		
[Discussion about limestone cleaning dos and don'ts and potential aspects to include in the limestone teachers' workshop].			
Sturgeon:	Asked if anyone had any more updates with respect to the workplan.		
Blankenship:	Responded that he is still working on potential signage for the limestone districts. Asked if this year was a year where continuing education credits are being tracked.		
Myers:	Stated that he would check on that.		

[Discussion on continuing education credit opportunities. Board members recommended attending presentations, reading through story maps or other online education media, and attending other education events].

6) Adjournment @ 6:44 PM

From: Tammy Behrman To: **Drew Myers** Subject: FW: Mid-States Corridor FEIS/ROD (DES# 1801941) Date: Friday, September 8, 2023 9:32:02 AM Attachments: image585661.png image277180.png image112920.png image028538.png image245836.png image145001.png image080223.png image087781.png

FYI

Tammy Behrman, AICP Assistant Director Monroe County Planning Department <u>tbehrman@co.monroe.in.us</u> (812) 349-2560

Monroe County Comprehensive Development Ordinance "Listening Session" events on August 29th, August 31st, and September 5th. See <u>flyer</u> or <u>monroecdo.com</u> for more info!

From: Jason DuPont <JDuPont@lochgroup.com>

Sent: Thursday, September 7, 2023 5:03 PM

To: Gretchen Anderson <gretchen.anderson1@yahoo.com>; lukebaker36@gmail.com; BJ Elmore <thebjelmore@gmail.com>; himseljames@gmail.com; dring@psci.net; 148markn@gmail.com; mranslow <mranslow@achp.gov>; Steve Wyatt
dbioomingtonrestorations.org>; daleclerktreas@psci.net; Slider, Chad (DNR) <CSlider@dnr.IN.gov>; McCord, Beth K <bmccord@dnr.in.gov>; ChiBuick07 <ChiBuick07@lochgroup.com>; Kauffmann, Danielle M <DKauffmann@dnr.IN.gov>; WTharp1(WTharp1@dnr.IN.gov) <WTharp1@dnr.IN.gov>; Chad A. Blessinger <cablessinger@duboiscountyin.org>; williamellis@ellettsville.in.us; kentyeager@gmail.com; castone@purdue.edu; Danielle Bachant-Bell <dbachantbell@indianalandmarks.org>; bell@indianalandmarks.org; jeff@indianaforestalliance.org; Alex Brooks <abrooks@indianalandmarks.org>; Greg Sekula <gsekula@indianalandmarks.org>; Irenwick@indianalandmarks.org; Danielle Bachant-Bell <dbachant-bell@indianalandmarks.org>; bell@indianalandmarks.org; ron bell <bell.ron@yahoo.com>; president@lcmuseum.org; historical@frontier.com; historical@frontier.com; mayordwinkler@thecityofrockport.com; Tammy Behrman <tbehrman@co.monroe.in.us>; lhughes@newburgh-in.gov; slmcbeth@yahoo.com; kentyeager@gmail.com; Terry and Brenda Cornwell <tcornwell@msn.com>; cecilragsdale0182@gmail.com; readymartincounty@gmail.com; lannan12@gmail.com **Cc:** Michael Grovak <MGrovak@lochgroup.com>; David Goffinet <DGoffinet@lochgroup.com>; Nicole Minton <Nicole.Minton@lochgroup.com>; Wheeler, Kyanna <KWheeler@indot.IN.gov>; Herrell, Michelle (FHWA) < Michelle.Herrell@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Corbin, Daniel <dcorbin@indot.in.gov>; Kelly, Clint <ckelly1@indot.in.gov>; Coon, Matthew <mcoon@indot.in.gov> **Subject:** Mid-States Corridor FEIS/ROD (DES# 1801941)

Dear Consulting Party,

Thank you for your interest in the Mid-States Corridor Tier 1 Study and the contribution of your involvement in the Section 106 process.

As a Section 106 Consulting Party, we would like to notify you that the Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT) have issued a Tier 1 Combined Final Environmental Impact Statement and Record of Decision (FEIS/ROD) for the Mid-States Corridor Study. The document includes changes to the Draft Environmental Impact Statement (DEIS) based on agency, Consulting Party and public input. The FEIS/ROD was published today and is anticipated to be in the Federal Register on September 15, 2023.

The FEIS/ROD includes updates to the Tier 1 DEIS. Responses to public and agency comments received on the Tier 1 DEIS are in Volume IV of the FEIS/ROD.

The Preferred Alternative extends 54 miles from I-64/US 231 to I-69 at the existing US 231 interchange. The FEIS/ROD is available for viewing online at <u>https://midstatescorridor.com/feis/</u> and at a number of libraries and other public locations listed on the website. Click on the link for location addresses.

The Mid-States Corridor Study is a tiered environmental document consistent with the guidance established by the Council of Environmental Quality (CEQ) under the National Environmental Policy Act (NEPA) and conforming to processes developed by FHWA and INDOT. Tiering separates the broader issues, such as selection of the general location and mode choice in Tier 1, from the more detailed site-specific impacts in Tier 2. With the selection of Refined Preferred Alternative P, INDOT is following department processes for proceeding with the Tier 2 studies. Procedures include reviewing section priority before determining a timeline for the next phase of study.

Under Title 23 U.S.C. Section 139, the FHWA has issued a single document that consists of a FEIS and ROD. Therefore, the 30-day wait/review period under NEPA does not apply to this action.

Thank you for providing feedback on the Mid-States Corridor Tier 1 Study. Please contact me with any questions.

Sincerely,



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EIS SUMMARY

The following substantive changes have been made to this chapter since the Draft Environmental Impact Statement (DEIS) was published:

- Impacts for Alternative R and Refined Preferred Alternative P (RPA P) have been added.
- Narratives have been updated to describe project activities including the publication of the DEIS, consideration of comments on the DEIS and subsequent Tier 1 regulatory activities.
- In response to comments, an explanation of the role of the Regional Development Authority (RDA) has been added.

ES 1 A Summary of the Statement

The Mid-States Corridor Study is a tiered environmental document consistent with the guidance established by the Council of Environmental Quality (CEQ) under the National Environmental Policy Act (NEPA) and conforming to

processes developed by the Federal Highway Administration (FHWA) and Indiana Department of Transportation (INDOT). Tiering separates the broader issues such as selection of the general location and mode choice in Tier 1 from the more detailed site-specific impacts in Tier 2. See Section ES 1.2 for more details. This Tier 1 Final Environmental Impact Statement (FEIS) defines the need for the study, the analyses undertaken, alternatives considered and their effects and identifies a Preferred Alternative. The intent of the Tier 1 Study is to determine the Purpose and Need for the proposed action and, if a Build Alternative is selected, identify a preferred corridor. All effects presented are estimates based on the best available resource information, supplemented by community input and some field reviews. Final resource impacts will be identified in subsequent Tier 2 NEPA studies for the selected alternative. These Tier 2 studies will calculate impacts based upon field surveys. This summary highlights the key processes followed, estimated effects of the alternatives and decision outcomes.

Section ES 1 describes the entire study process. It summarizes the primary elements of the entire FEIS. Sections ES 2 through ES 7 give details about important components of this FEIS. Section ES 8 addresses implementation of the project. ES 9 provides a glossary of key terms used in the EIS.



Figure ES-1: Project Study Area

Final Environmental Impact Statement



ES 1.1 Purpose and Need

The Notice of Intent (NOI) for the study was published in the Federal Register on July 5, 2019. The project is intended to improve the transportation linkage between SR 66 and I-69 in Southern Indiana. Regarding the connection to I-69, this could be either a direct connection or via connection through SR 37, which is an existing four-lane expressway north from Mitchell. The Study Area includes 12 counties: Crawford, Daviess, Dubois, Greene, Lawrence, Martin, Monroe, Orange, Perry, Pike, Spencer and Warrick (**Figure ES-1**).

Five previous studies provided support of the need for improved linkage. These include the *Conexus Indiana Southwest Regional Council – A Plan for Growing Southwest Indiana's Logistic Sector* (2015); *Blue Ribbon Panel on Transportation Infrastructure – Final Report to Governor Pence* (2014); *I-67 Corridor Feasibility Study* (2012); *US 231 Jasper/Huntingburg – 2004 DEIS and 2011 SDEIS and the US 231 Corridor Assessment* (2018). After the release of the NOI, robust engagement efforts with stakeholders, the public and resource agencies occurred. Five key themes of need were identified from stakeholder engagement and were as follows. While anecdotal in nature, the points below represent consistent input received multiple times from stakeholders:

- Economic Significance of Dubois County. Dubois County is a major economic center in Southern Indiana. It is home to many large national corporations. Access to northern and southern markets is restricted by the design and capacity of US 231. This inhibits business growth and business attraction, causes unpredictable delivery times, increases freight costs and inhibits access to Crane Naval Surface Warfare Center and its supporting contractors. Access to major intermodal facilities in Indianapolis, Louisville and Chicago is limited.
- **Poor Safety, Unreliability and Inadequacy of US 231**. US 231 is the north/south transportation "spine" for the Study Area. Many local stakeholders described it as having poor safety, speed, congestion and travel time predictability. In most parts of the Study Area, it is a two-lane road with narrow shoulders, hilly topography, unrestricted county road access and slow-moving seasonal farm equipment. These factors lead to reduced speeds and unpredictable travel times. This restricts its use for motor freight.
- Lack of North-South Connectivity throughout 12-county Study Area. Businesses east of I-69 and west of I-65 generally have inadequate access to northern and southern markets. Many businesses avoid US 231 to/from northern markets, and instead go south to I-64 to go north on I-69 or I-65. This added time and distance raises freight costs.
- Importance of Improved Intermodal Access to Business Expansion and Attraction. Large airports with air freight services, such as FedEx in Indianapolis or UPS in Louisville, provide advantages to businesses. Air freight opportunities are limited by poor connections to intermodal centers. Improved access to rail centers such as Indianapolis and Chicago also would be advantageous to businesses. In addition, there are two major Ohio River ports (Tell City River Port and the Port of Indiana in Jeffersonville). Major businesses in the Study Area both source their business inputs and serve customers throughout many parts of the nation. Access to a range of transportation options is an important part of business operations.
- Importance of Transportation to Business Attraction. An important consideration in business location decisions is the presence of high-level, multi-lane roads. Many stated that the combination of poor access/ logistics to the north and the competitive labor market discourages business attraction.

Sentiment received from the public in support of the study tended to focus on economic development issues. Specific locations which would be helped by improved access included Jasper, Huntingburg, Washington, French Lick, Mitchell, Bedford and the Naval Support Activity (NSA) center/base in Crane. Support for a broad range of industries, including tourism, was cited.



Final Environmental Impact Statement

Analysis of the transportation needs in the Study Area found accessibility limits to Dubois County and aligned with the issues expressed by the stakeholders. Forecasting travel times using existing roadway speeds and speeds associated with a higher facility identified the potential to create higher trip time reductions (e.g., up to a potential 10-minute round trip reduction between Jasper and Crane).

To determine whether alternatives created would address the needs identified, seven goals were established as measurement tools. Three of these were classified as core goals and four as secondary goals. Core and secondary goals differ in that a proposed alternative must demonstrate adequate improvements on each core goal while secondary goals represent additional benefits. These are "other desirable outcomes"¹ but are not required to be addressed by the selected alternative. Goals 1, 2 and 7 are core goals, and Goals 3, 4, 5 and 6 are secondary goals. The seven goals and their performance criteria are as follows:

- 1) Increase accessibility to major business markets (Core Goal). Alternatives must demonstrate:
 - a. Reduced travel time from Jasper to Indianapolis, Chicago and Louisville
 - b. Reduced travel time from NSA Crane to Jasper, Rockport and Louisville
 - c. Reduced travel time from Bedford to Rockport and Louisville
 - d. Reduced travel time from French Lick to Indianapolis, Louisville and Rockport
 - e. Reduced travel time between I-64/US 231 and I-69/US 231
 - f. Increased labor force with 30-minute access to Jasper, Crane, Washington, French Lick and Bedford.
- 2) Provide more efficient truck/freight travel in Southern Indiana (Core Goal). Alternatives must demonstrate:
 - a. Reduced truck vehicle hours of travel (VHT) in 12-county Study Area for trips to, from or within the Study Area.
- 3) Reduction in localized congestion in Dubois County (Secondary Goal). Alternatives must demonstrate:
 - a. Reduced congestion at key locations within Jasper and Huntingburg.
- 4) Reduce crashes at key locations in Southern Indiana (Secondary Goal). Alternatives must demonstrate:
 - a. Reduction in annual crash costs at key locations in Southern Indiana.
- 5) Increase levels of business activity within Southern Indiana (Secondary Goal). Alternatives must demonstrate:
 - a. Increased regional gross domestic product within 12-county Study Area.
 - b. Increased total employment within 12-county Study Area.
 - c. Increased employment in high-wage industries in 12-county Study Area.
 - d. Increased employment in high-growth industries in 12-county Study Area.
- 6) Increase personal economic well-being in Southern Indiana (Secondary Goal). Alternatives must demonstrate:
 - a. Increased personal income within 12-county Study Area.

¹ Measurement of adequacy is defined in Chapter 1



- 7) Increase access to major intermodal centers from Southern Indiana (Core Goal). Alternatives must demonstrate:
 - a. Reduced travel from Jasper to CSX Avon Yard, Senate Ave. Yard, Tell City River Port, Port of Indiana, Louisville Airport and Indianapolis Airport.
 - b. Reduced travel time from Crane to CSX Avon Yard, Senate Ave. Yard, Tell City River Port, Port of Indiana, Louisville Airport and Indianapolis Airport.

ES 1.2 Process Overview

NEPA established the framework to consider how federal actions may have an impact on the environment. From this framework, the CEQ created the three levels of environmental reviews, which are the EIS, Environmental Assessment (EA) and Categorical Exclusion (CE). Additionally, the CEQ provided the opportunity for major transportation actions processed as an EIS to be tiered (40 CFR § 1508.28: Tiering). Tiering separates the broader issues such as selection of the general location and mode choice in Tier 1 from the more detailed site-specific impacts that can be determined in Tier 2. For large, complex transportation projects tiering is beneficial for both the lead federal agency providing approval and the lead state agency planning the transportation improvement. With its 12-county Study Area, it was determined a tiered approach was appropriate for the Mid-States Corridor Study.

A participant in this Study is the Mid-States Corridor Regional Development Authority (RDA). It was established as provided in *IC 36-7.6, Regional Development Authorities*. This legislation allows RDAs to be formed throughout Indiana. It is an additional form of local government. An RDA allows local governments to collaborate for regional benefits.

RDAs may be formed to fund and develop projects of regional importance. These include airport projects, commuter transportation districts or other rail projects, regional transportation authority projects and services, economic development projects, intermodal transportation projects, regional trail or greenway projects, regional transportation infrastructure projects or any project that enhances the region with the goal of attracting people or business of regional economic importance.

On September 26, 2018, the RDA and INDOT entered into an agreement for the RDA to provide funding for the Tier 1 Environmental Impact Statement. The RDA is one of 17 participating agencies for this project. See **Table 7-1** in this FEIS. It does not direct the study or its findings. The project sponsor for this Mid-States Corridor Tier 1 EIS is the Indiana Department of Transportation, with the Federal Highway Administration as the lead federal agency.

Coordination between FHWA and INDOT resulted in determining the Tier 1 DEIS Build Alternatives should establish a continuous corridor through the entire project area and identify how it will connect to I-69 and propose what its Sections of Independent Utility (SIUs) would be in Tier 2. The SIUs would define their logical termini and prioritization for Tier 2 staging. Determination of a facility type will be deferred until Tier 2; however, the effects analysis must be based on construction footprints associated with design criteria of a given type of facility. To address this, each alternative has a range of costs and impacts for a partial access expressway and Super-2 rural arterial. A fully accesscontrolled freeway was removed from consideration during the study.

This Tier 1 FEIS and Record of Decision (ROD) selects a corridor, not an exact alignment. The Tier 2 projects will develop an alignment and construction footprint for determining environmental impacts. The type of environmental documentation, EIS, EA or CE for each Tier 2 project, will be determined during Tier 2 studies. Tier 1 regulatory actions involving agencies are described in **Section ES 7**. Anticipated permits and other regulatory actions during and after Tier 2 studies are described in **Section ES 1.5.1**. Environmental commitments described in Chapter 6 will be carried forward into Tier 2 as well as subsequent design and construction.



Final Environmental Impact Statement

The ROD selected a preferred Build Alternative. As will be later described, the Build Alternative includes localized improvements to existing roadways associated with the selected corridor. The combination of these localized improvements with the new corridor enhanced the benefits obtained. Each localized improvement associated with the Preferred Alternative is illustrative, shown with approximate termini and will be processed as an individual Tier 2 project. Although these localized improvements may be processed as CEs, the level of environmental documentation will be determined later. Localized improvements not associated with the selected alternative will not be developed as a part of Mid-States Corridor Tier 2 activities. These may be evaluated for further development through INDOT's annual project evaluation process. These other localized improvements are associated with alternatives other than the selected alternative.

The Mid-States Corridor Tier 1 EIS uses several terms to describe the highway alignments considered. For details, see **FEIS Volume I, Sections 2.2 through 2.4** and **Volume II, Appendices C and D.**

- Route. In the conceptual and preliminary stages of this project, alignments were proposed by project staff, agencies and the public. These alignments were designated as "routes." They were proposed as portions of an alignment connecting I-64 and I-69/SR 37. A two-mile wide Study Band was identified for each route, with the route in the center of the Study Band.
- Alternative. When routes were combined to connect I-64 with I-69/SR 37, these were designated as alternatives. The term "route" continued to be used to refer to portions of alternatives. When an end-to-end alignment was combined with a single facility type, it also was designated as an "Alternative." Facility types considered in the Screening of Alternatives included freeway, expressway and Super-2. Subsequent to the Screening of Alternatives, the freeway facility type was eliminated. Alternatives then were designated as a single entity with a range of potential facility types (expressway and/or Super-2).
- **Corridor.** After identifying alternatives carried forward in the Screening of Alternatives, a corridor was identified for each alternative. That corridor is generally 2,000-feet wide, centered around the center line of the alternative. This Tier 1 study selects a preferred corridor. RPA P has four corridors in SIU 4 at Loogootee. During Tier 2 studies, a final alignment and facility type(s) will be selected within its Tier 1 corridor. This will include selecting a single corridor at Loogootee in SIU 4.
- **Discontinuing Use of Route.** Subsequent to the Screening of Alternatives, the decision was made to defer selection of specific facility type(s) until Tier 2 studies. The decision also was made to remove the freeway facility type from consideration. At this point, the use of "route" was discontinued. In the detailed analysis of alternatives in **Chapters 3 through 6**, only "alternative" is used to designate alignments connecting I-64 with I-69/SR 37. Each alternative was evaluated using a range of costs, impacts and benefits for both the expressway and Super-2 facility types.
- Variation. This term is used to refer to individual discrete elements within an alternative in this EIS. It is used to refer to a single corridor location where multiple corridors occur as part of the same alternative. It also is used to refer to a single facility type for a given alternative. For example, "Super-2 variation of Alternative X."

ES 1.3 Preliminary Screening and Alternatives Carried Forward

ES 1.3.1 Defining the Study Area

The Study Area encompasses 12 counties in Southern Indiana. While proposed Build Alternatives would provide a continuous alignment to connect the northern and southern termini, three distinct sections/regions were identified that would influence potential conceptual routes. These were divided into Sections 1-3 starting from the southern terminus and progressing north. Section 1 occupies the area between the southern terminus at SR 66 and I-64.

Final Environmental Impact Statement



Section 2 continues from I-64 to north of Jasper, generally extending to the vicinity of the East Fork White River. Section 3 occupies the area between Section 2 and a connection point with I-69, either directly or via SR 37.

Section 1 is represented by the portion of US 231 which was upgraded to a four-lane expressway in 2011. At the initiation of the study, a fully access controlled freeway facility type was considered. This section would not have evaluated a new alignment, but could have resulted in converting this section of US 231 to a freeway. With the removal of freeway as a facility type, potential effects within this section became limited to identification of specific locations of access control, spot improvements and signage. However, no changes to access control or spot improvements were proposed as part of any alternative.

Section 2 is represented by the portion of the study which generally considered improvements near or on the existing alignment of US 231 in Dubois County near Huntingburg and Jasper.

Section 3 is represented by a much broader area and as such was further subdivided into three "families" within which alternatives were assigned. The intent was to categorize those that split off to the northwest to connect to I-69, those that maintain a relatively straight north-south alignment along the existing US 231 corridor and those that split off to the northeast to connect to SR 37. Each of these families would serve different communities in the

Study Area. The Northwest Family more directly links population centers in or near Petersburg and Washington, the North Central Family more directly to Crane NSA and the Northeast Family to Bedford and Mitchell.

Figure ES-1a shows the general location of these Sections in the Study Area.

ES 1.3.2 Public and Agency Outreach

Public and resource agencies were engaged throughout each stage of the study and followed the Indiana Department of Transportation and Federal Highway Administration Streamlined Environmental Impact Statement Procedures, September 2007, which included both a formal Public Involvement Plan (PIP) and Coordination Plan. These plans were regularly updated during the project study and posted to the project website. The final version of these plans is provided in Appendix BB. The engagement strategy for the public involved in-person outreach, providing virtual connectivity and establishing a community presence. Agency coordination and engagement involved in-person coordination meetings, regular correspondence and workshops.

Public Engagement

Outreach included providing correspondence to key public representatives throughout the entire 12-county area at major milestones, in addition

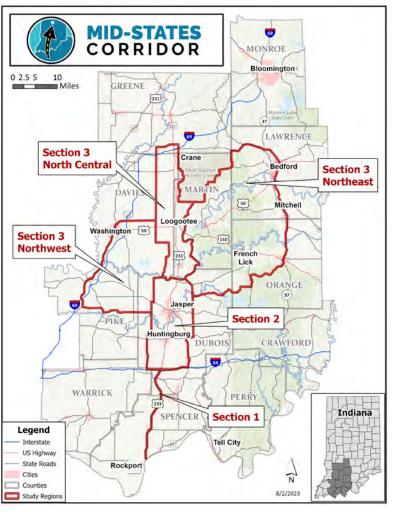


Figure ES-1a: Sections within Study Area



August 31, 2023

Drew Myers Senior Planner Monroe County Historic Preservation Board of Review 501 N Morton St. 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. Myers,

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.

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,

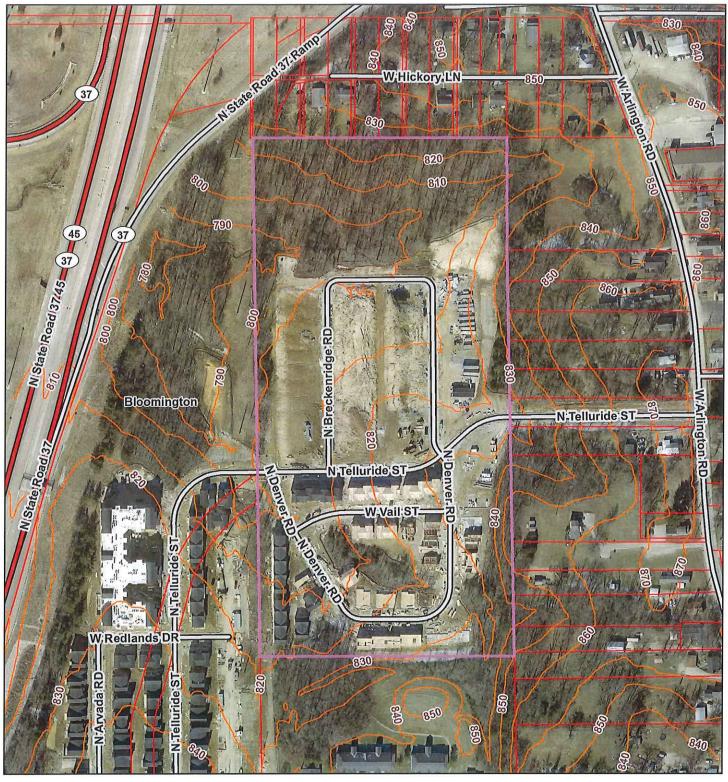
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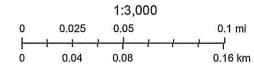
Gloria M. Colom Braña Historic Preservation Program Manager City of Bloomington, Indiana

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

Attachments

Habitat for Humanity - Arlington Place Development







Ν

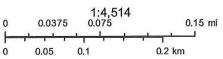
Arlington Place - SHAARD Map



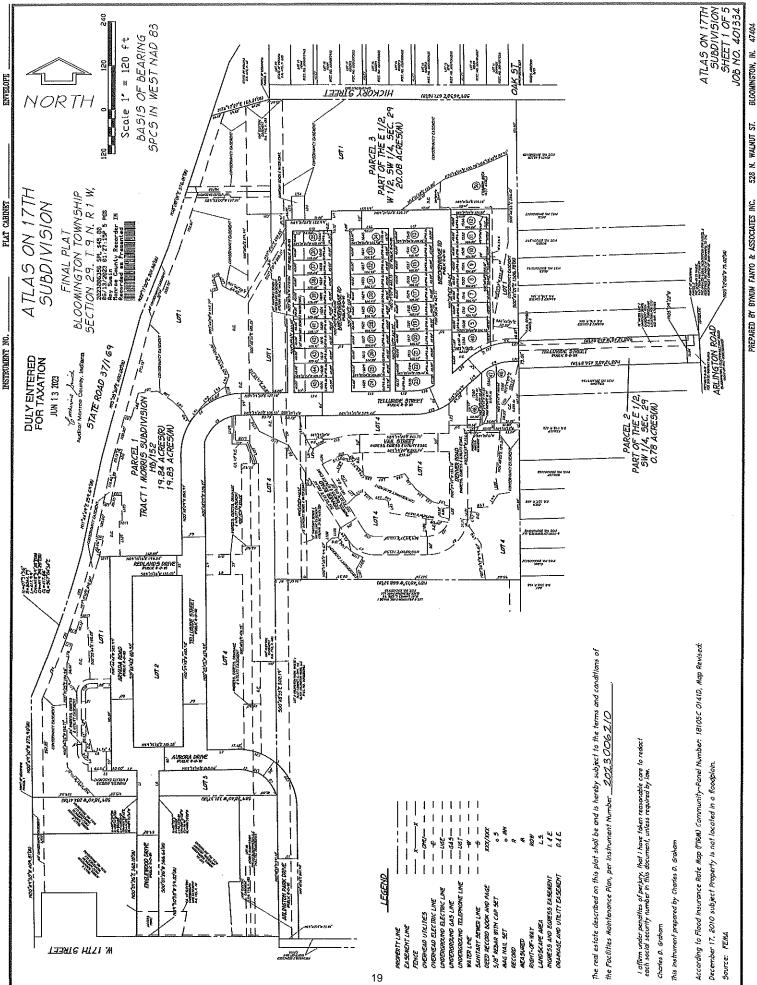
8/30/2023, 4:31:00 PM

County Survey Sites

Contributing



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



LOCA TION PROJECT INSTRUMENT NO. Statement of Plan Yocature. Truct I of Mores Subdension is approved ATLAS ON 17TH FINAL PLAT BLOOMINGTON TOWNSHIP SECTION 29, T 9 N, R 1 W, SUBDIVISION Artington Valtey VIII 25 25 VIII LOCA TION MAP 2 5 h B 6 | e kesj 6/12/2023 2 ह Scell oller Seet Robins, Director Seel of 219.87 249.66 249.66 249.66 249.67 NCE NUMBER DIRECT 160.01 116.57 3074.79 3030 3074.79 166.44 3074.79 219.92 8

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updated Parcel ()

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2223406335 SPL 545.00 G6/12/2023 D1:27115P 5 PGS Fary Statin Forrise County Recorder IN Recorded an Presented

EGAL DESCRUTION updated Parcel 1:

ENVELOPE

PLAT CABINET

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Updated Parcel 2: 20, 1014

Nath. Roope i West. Acoroe County, indiana being more particularly described as follows:

to James T. Marris, as Trustee under the James T. Marris Revocable Trust Agreement dated October 25, 1999, t. 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 fram James T. Marris and Danetta S. Norris, husband and wife,

Easements to be vacated per this plat:

Agreement dated October 25, 1999 an undivided 50%, dated February 11, 2000 and recorded February 15,

2000 as Pocument No. 2000002353.

an undivided 50% interest and Danetto S. Marris, as Truslee under the Danetta S. Marris Revocable Trust

2. All that portion of a certain cosement that is located an the subject property, more defined as follows:

20' & 15' Wolerline and Santtary Sewer Eosement recerd in Deed book 478, Page 426 in the office of the

Recorder of Manroe County, IN.

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- and that the monuments shawn an it exist; and that their locations, sizes, that this plat accurately represents a survey made by me an <u>October 22 2020</u>... i certify that I am a Registered Land Surveyor licensed under the lows of Indiana;

and materials are occurately shown. bynum Fanyo é Associates, inc. U.D. Lun 528 Narth Walnut Street Indiana L.S. 29500014 Charles D. Grohem hpes.





BI2-332-8030

Director

Kelson

ATLAS ON 17TH SUBDIVISION SHEET 3 OF 5 JOB NO. 401334

BLOOMINGTON, IN. 47404

528 N. WALNUT ST.

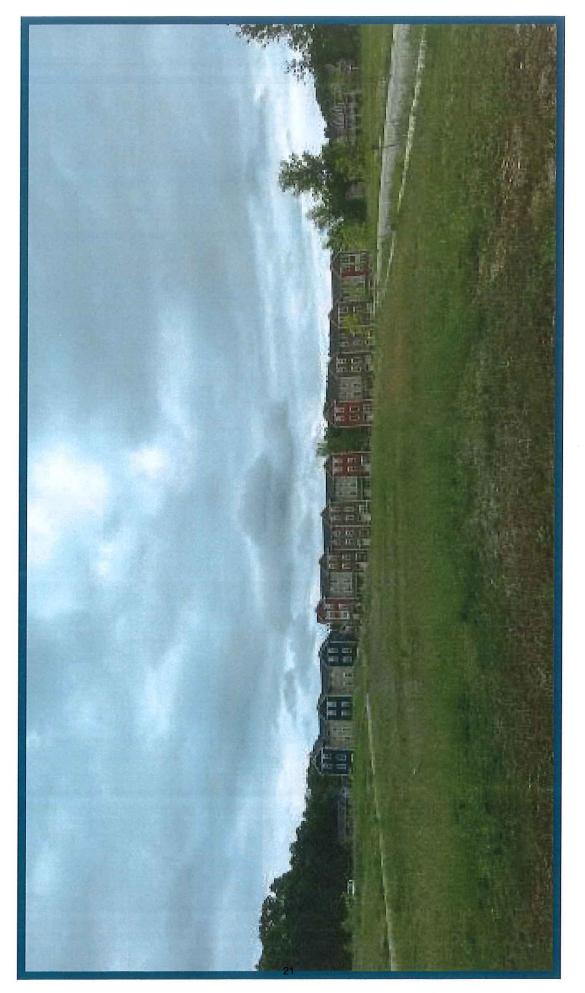
PREPARED BY BYNUM FANYD & ASSOCIATES INC.

Approved by the City of Boomington Utilities _

of City of Bloomington Utilities.

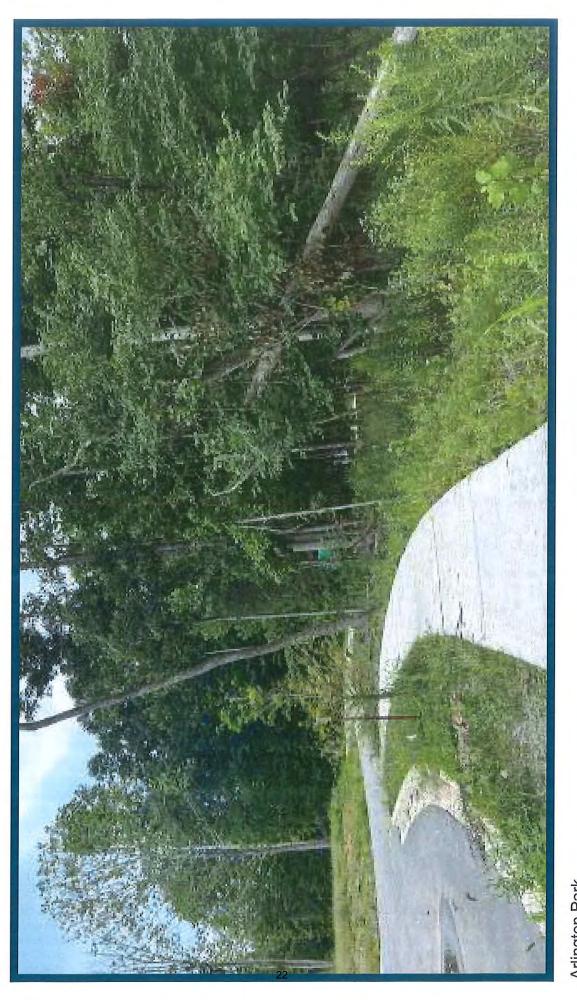
June 5 223

these easements are being vacated at the request of the property owners and with consent and approval



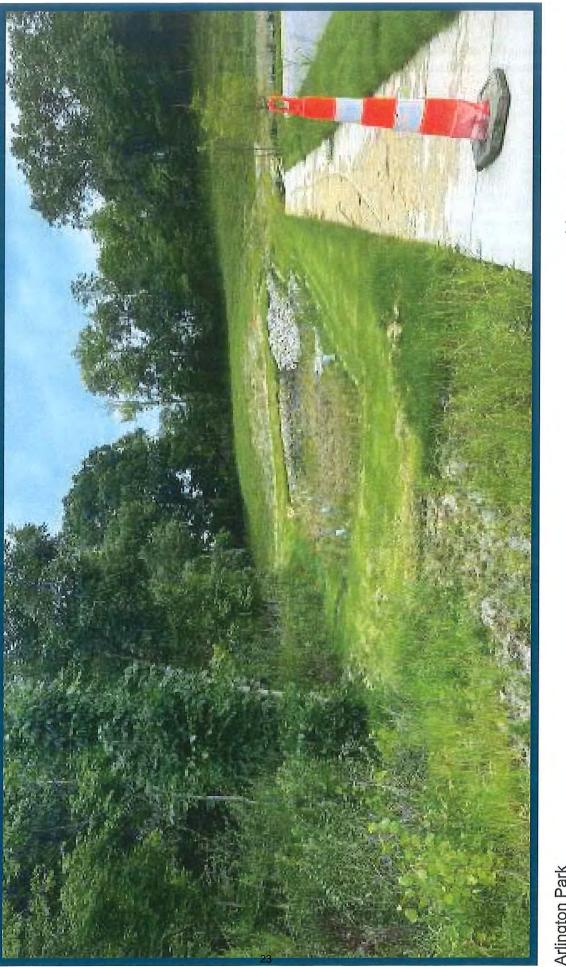
BLOOMINGTON HOUSING AND NEIGHBORHOOD DEVELOPMENT

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



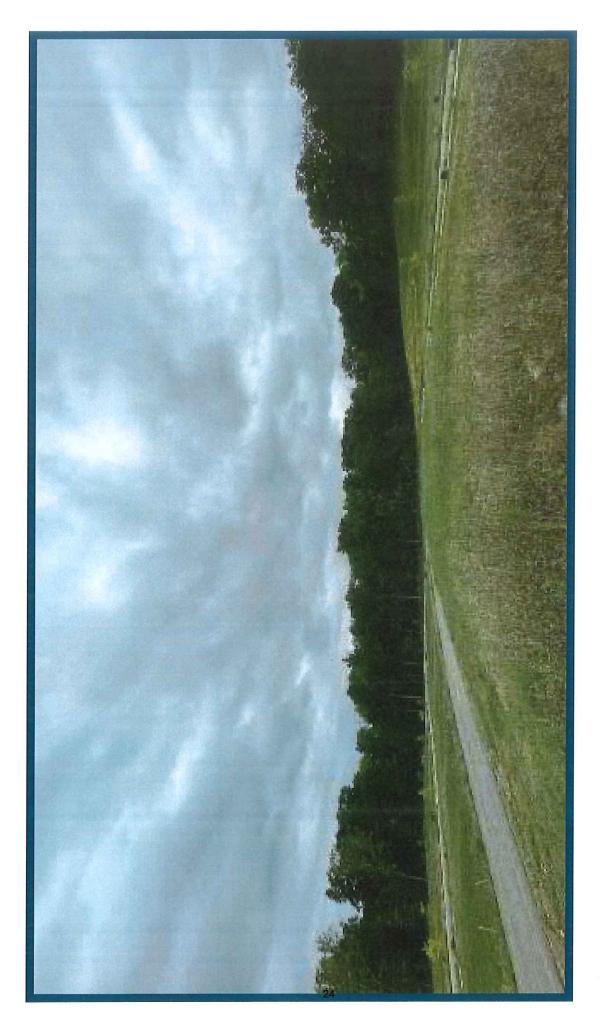


Arlington Park Photo 2 Site Visit August 15, 2023 View standing on the north and looking towards the west.



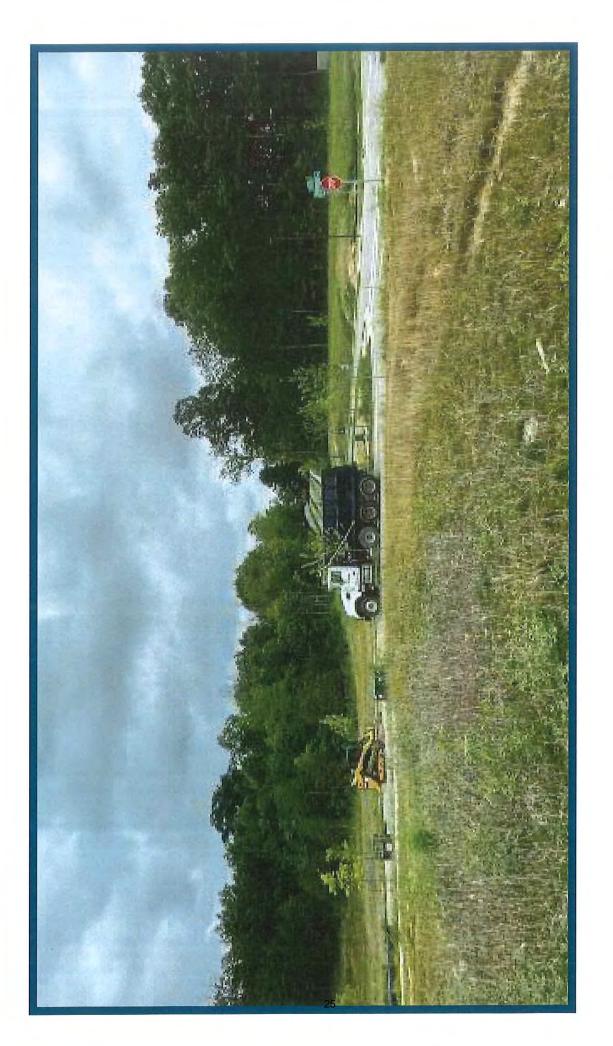
Arlington Park Photo 3 Site Visit August 15, 2023 View standing on the north and looking towards the north east





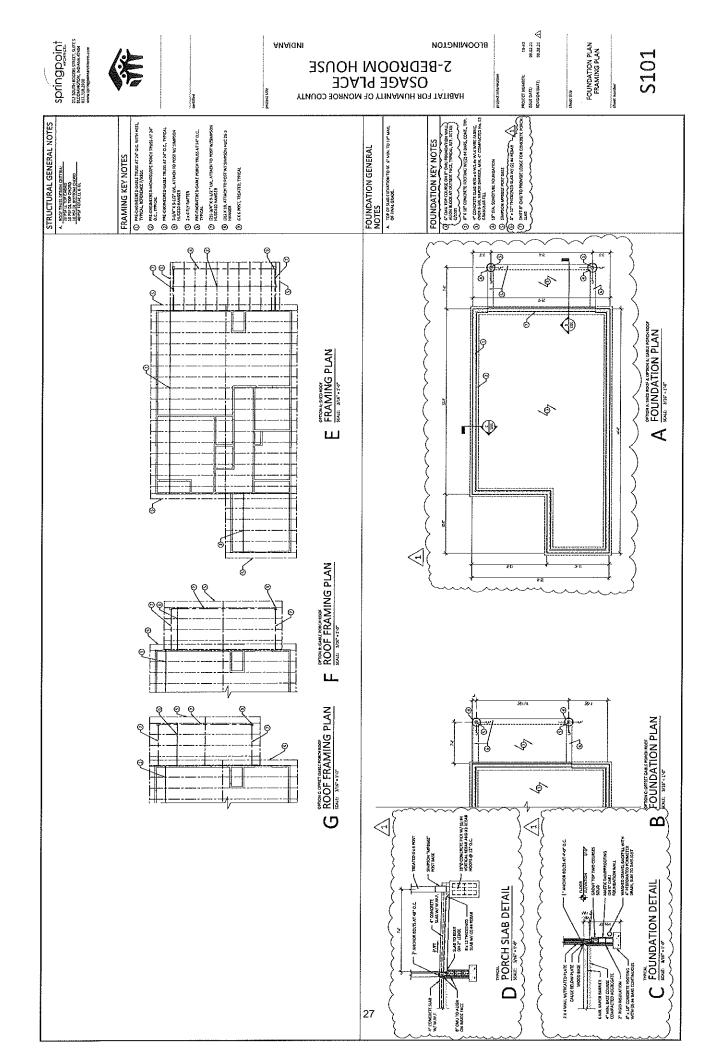
Arlington Park Photo 4 Site Visit August 15, 2023 View standing on the middle south side of the lot and looking towards the north.

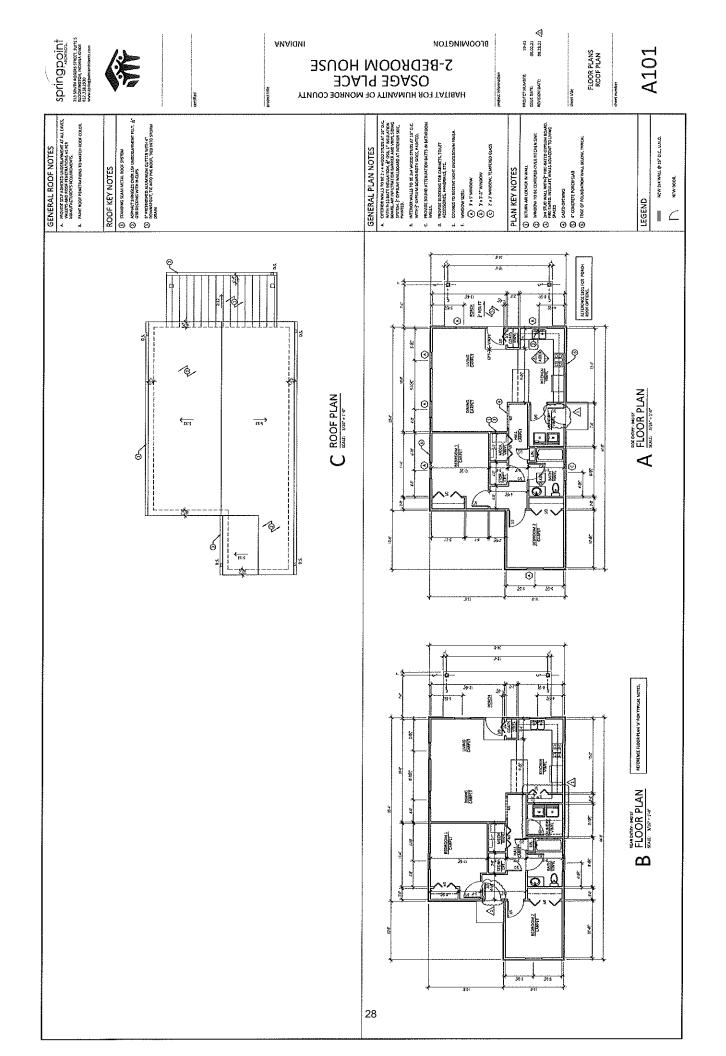


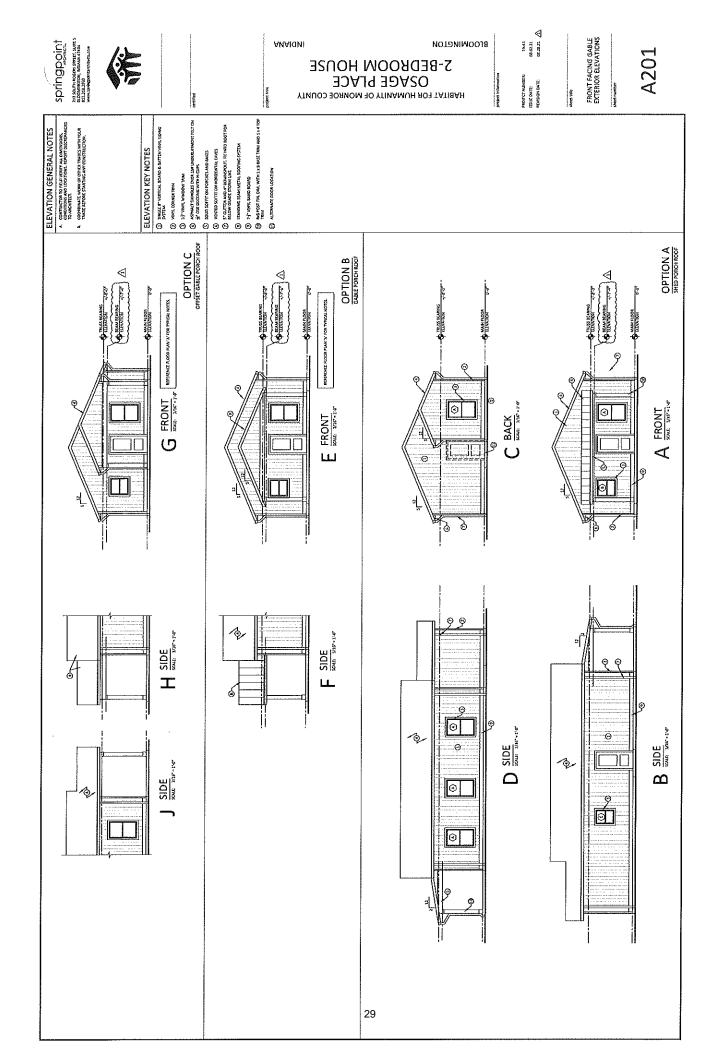


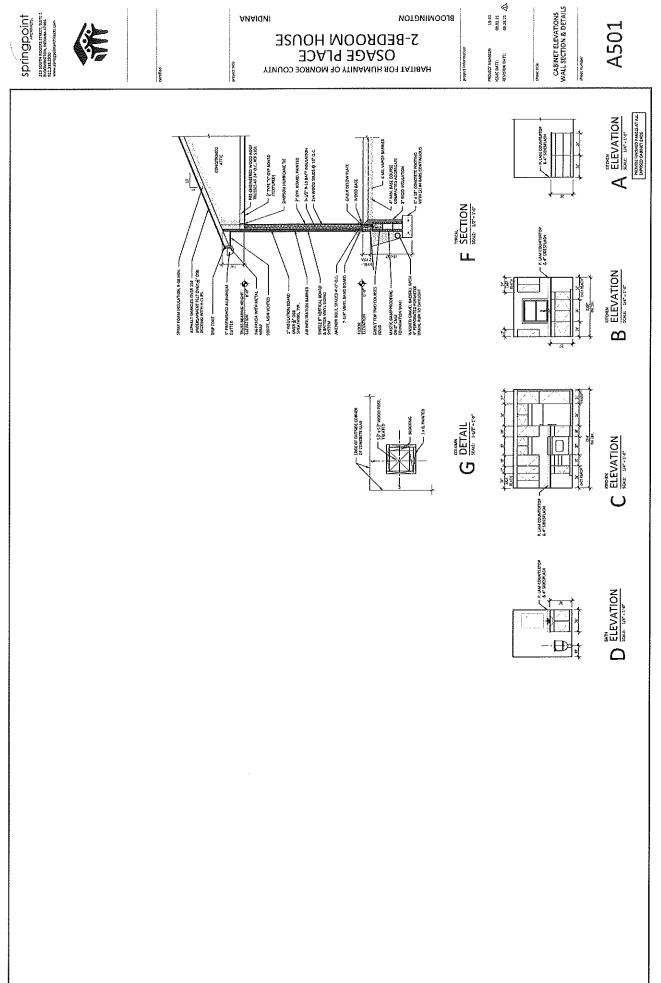


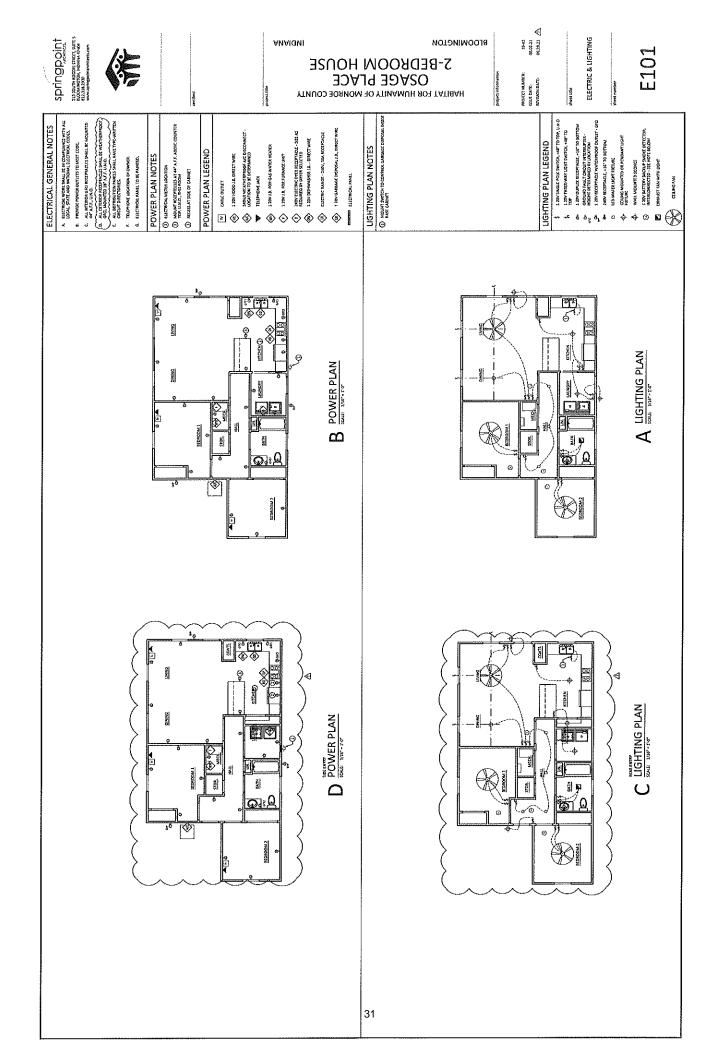
Arlington Park Photo 5 Site Visit August 15, 2023 View standing on the south and looking eastward.



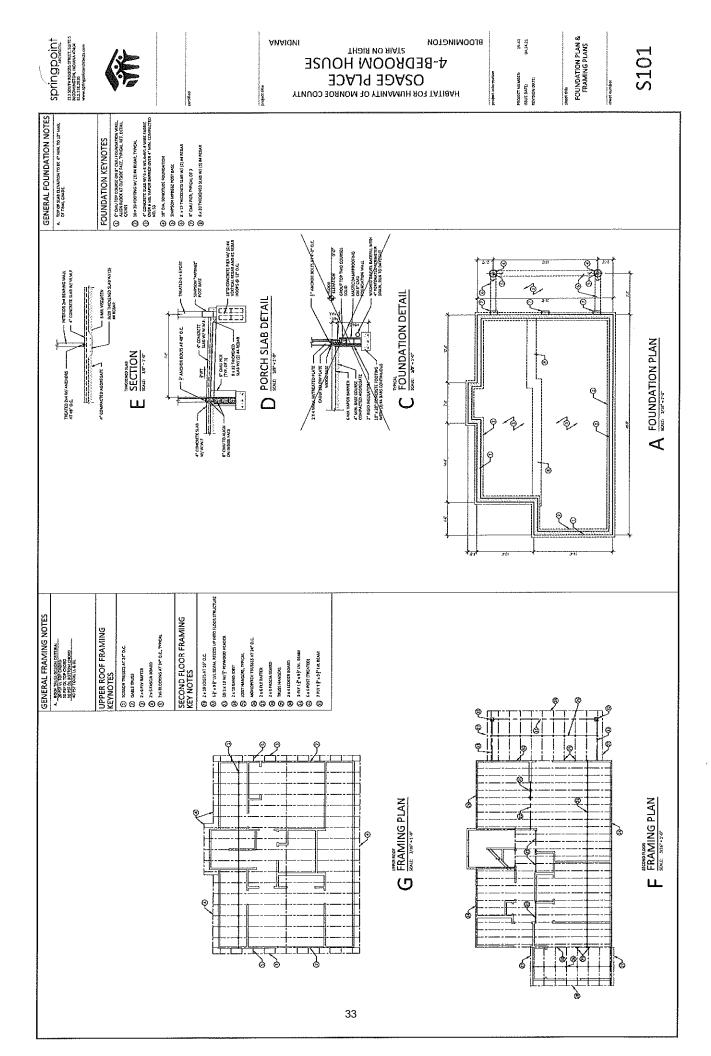


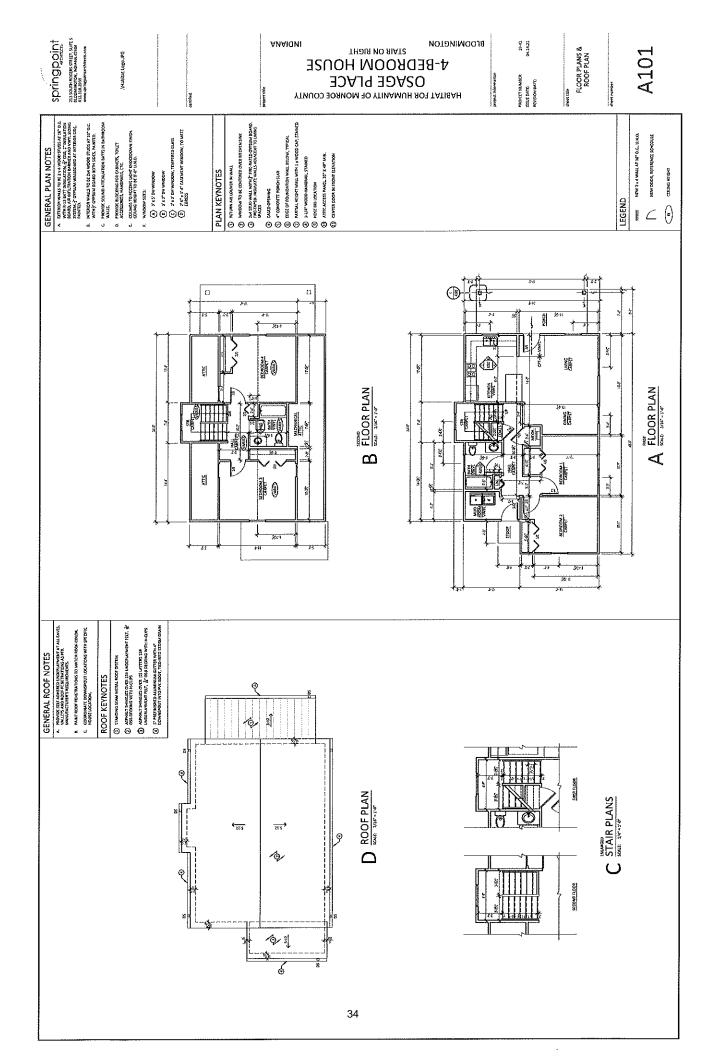


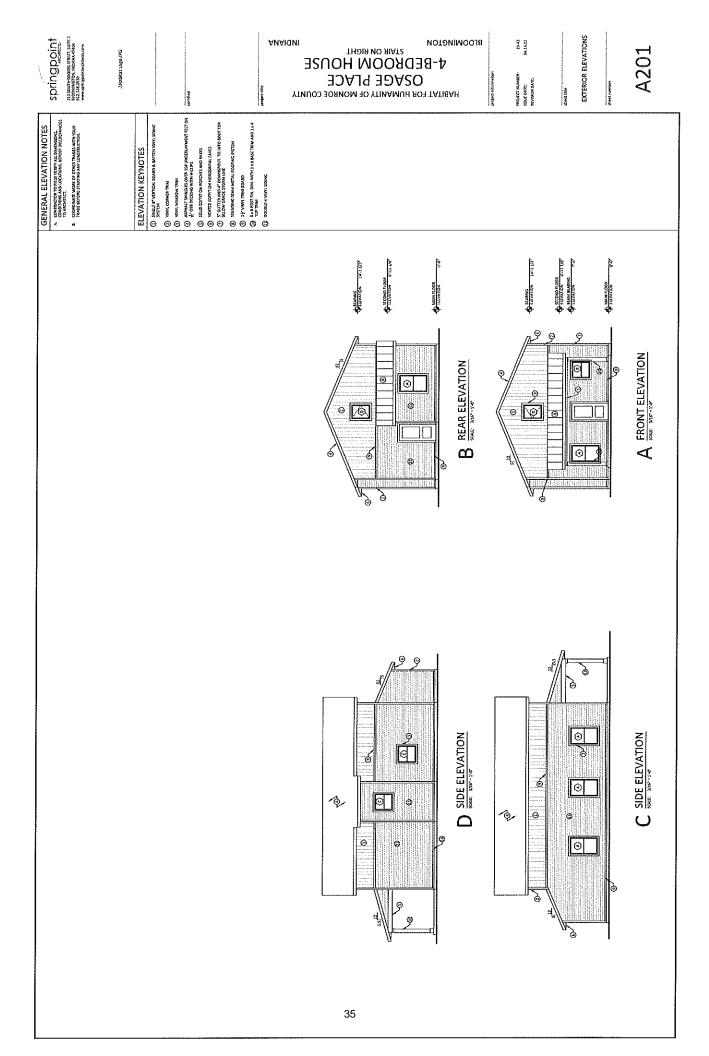


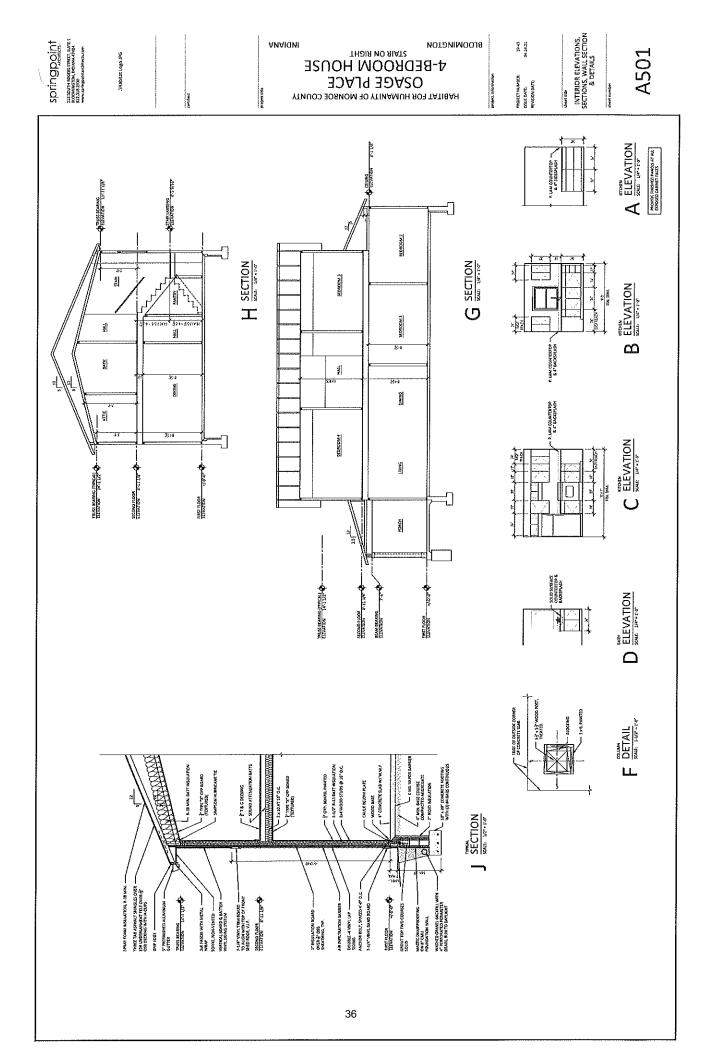


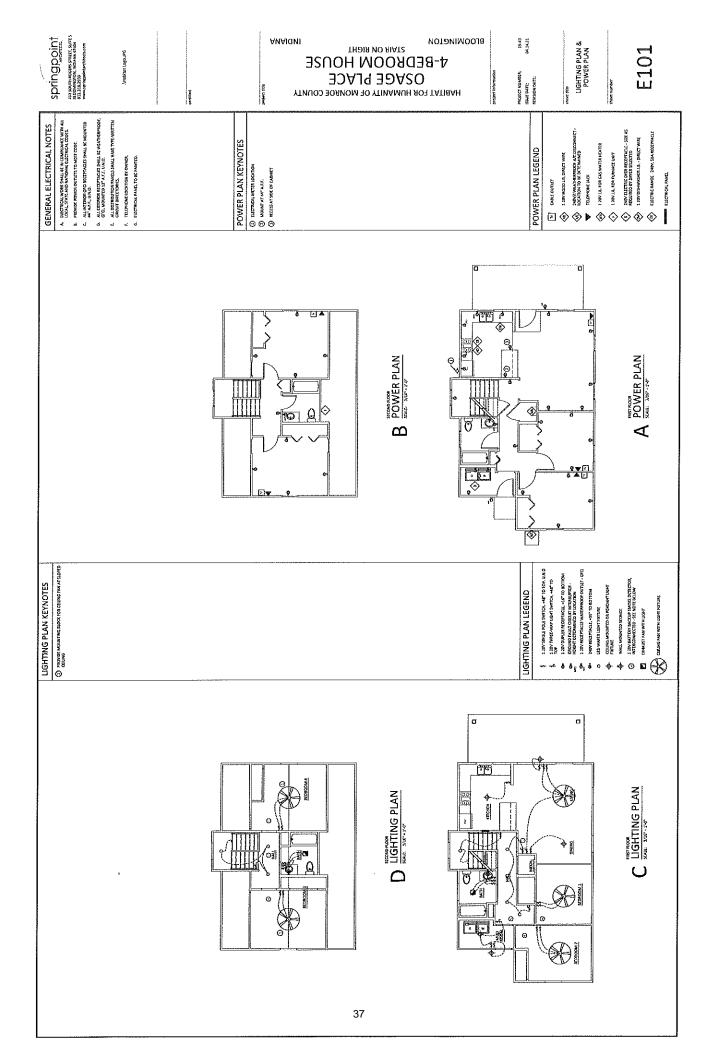
	HABITAT FOR HUMANITY OF MONROE COUNTY
	OSAGE PLACE 4-BEDROOM HOUSE - STAIR ON RIGHT
	APRIL 14, 2022
	DRAWING INDEX COVER DRAWING INDEX
	5101 FOUNDATION PLAN & FRAMING PLANS A101 FLOOR PLANS & ROOF PLAN
	A201 EXTERIOR ELEVATIONS A501 INTERIOR ELEVATIONS, SECTIONS, WALL SECTION,
	& DETAIL E101 LIGHTING PLANS & POWER PLANS
3	
32	
	ARCHITECT
	springpoint
	SPRINGPOINT ARCHITECTS PC 213 SOUTH ROGERS STREET, SUITE S BLOOMINCON, INDIANA 47404 812.318.2930 WWW.SPRINGPOINTARCHITECTS.COM
	STRUCTURAL ENGINEER
	KEVIN POTTER, P.E. P.O.BOX 5563 BLOOMINGTON, INDIANA 47407 812.331.7981

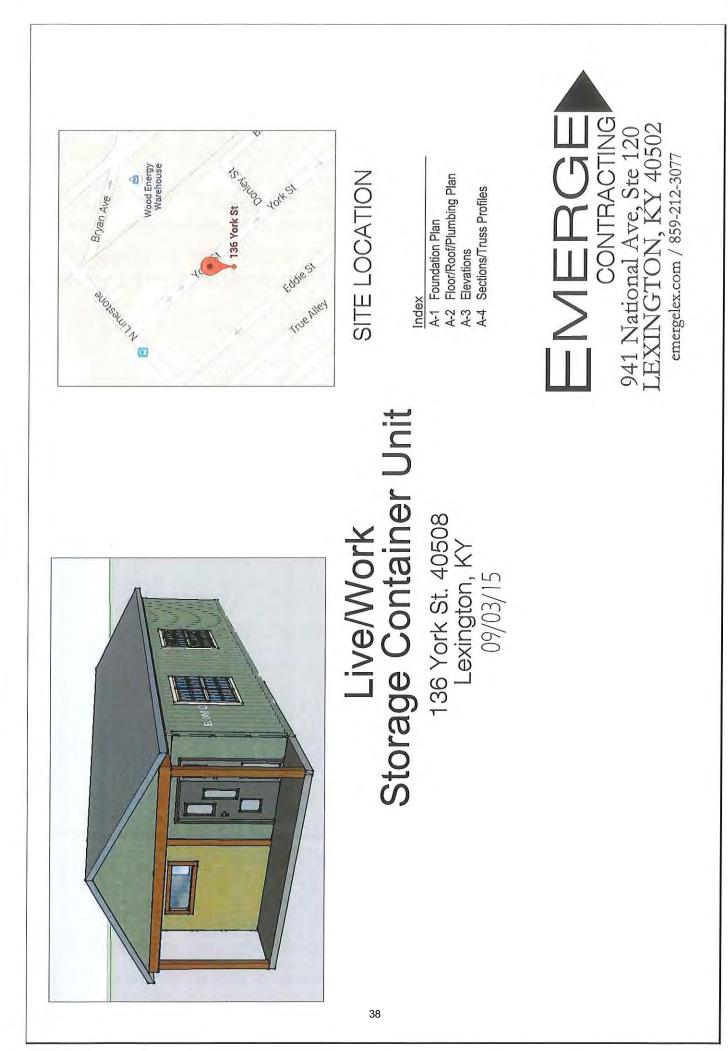


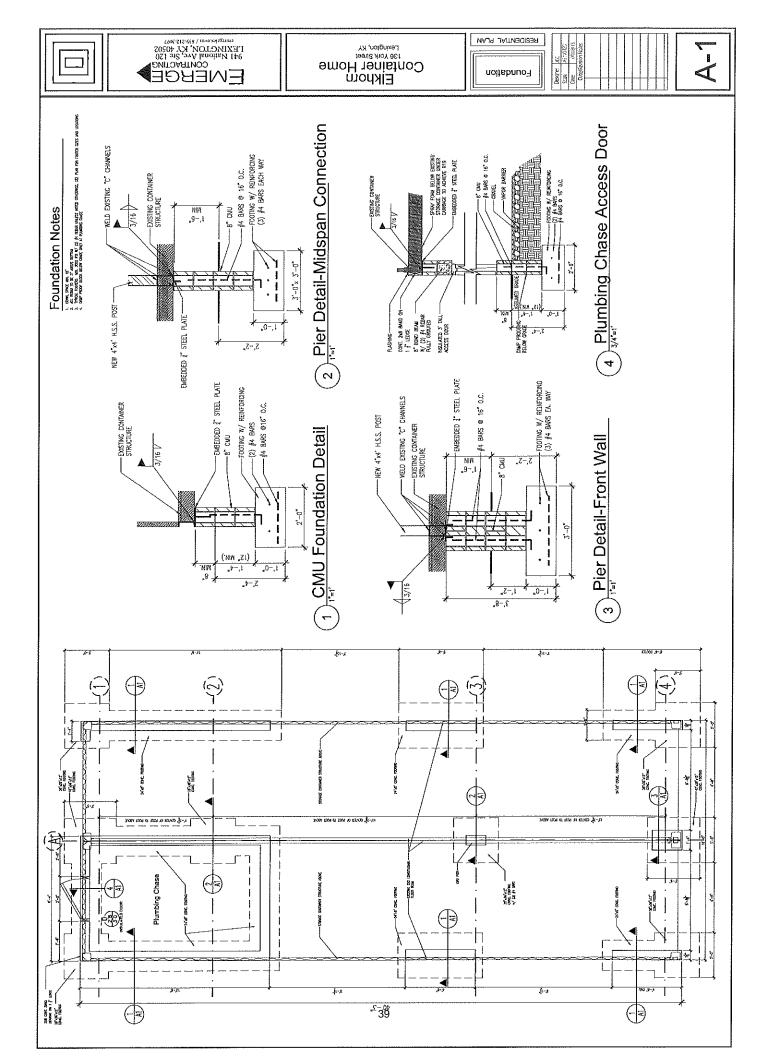


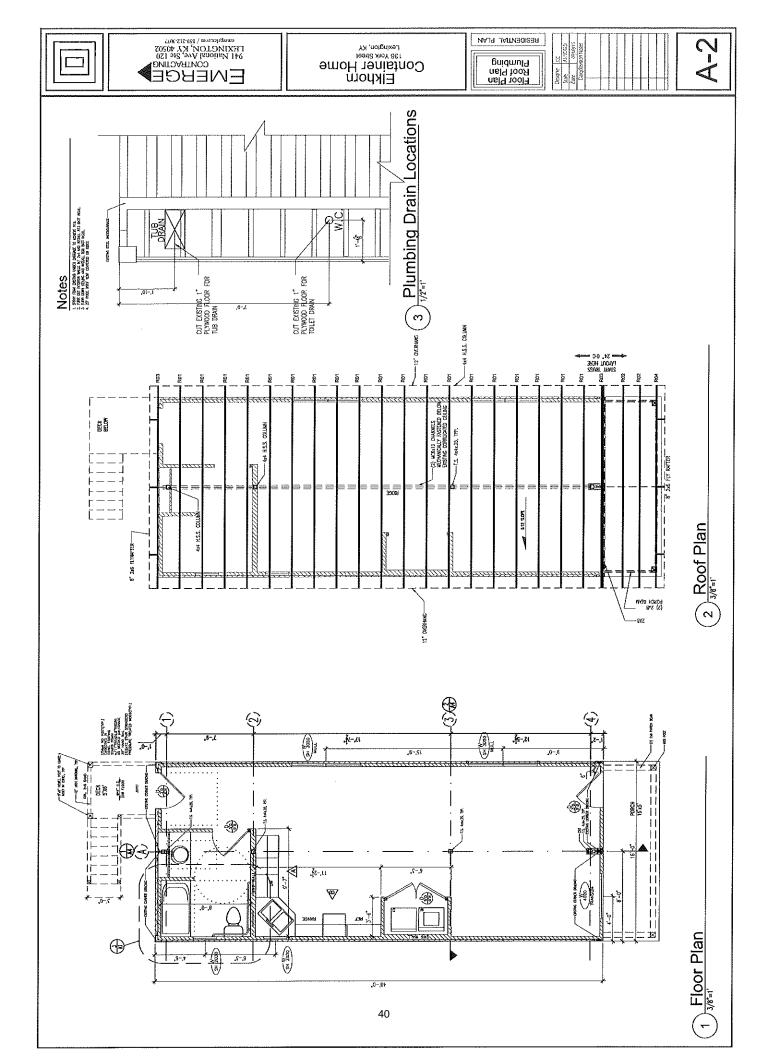


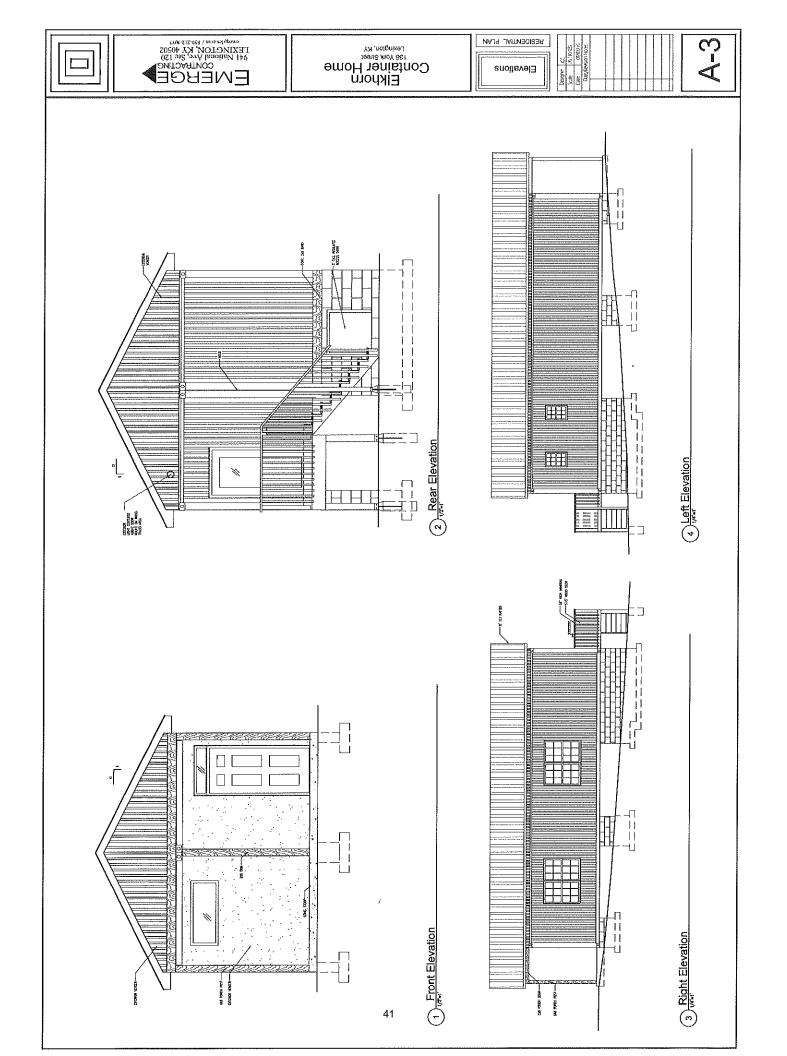


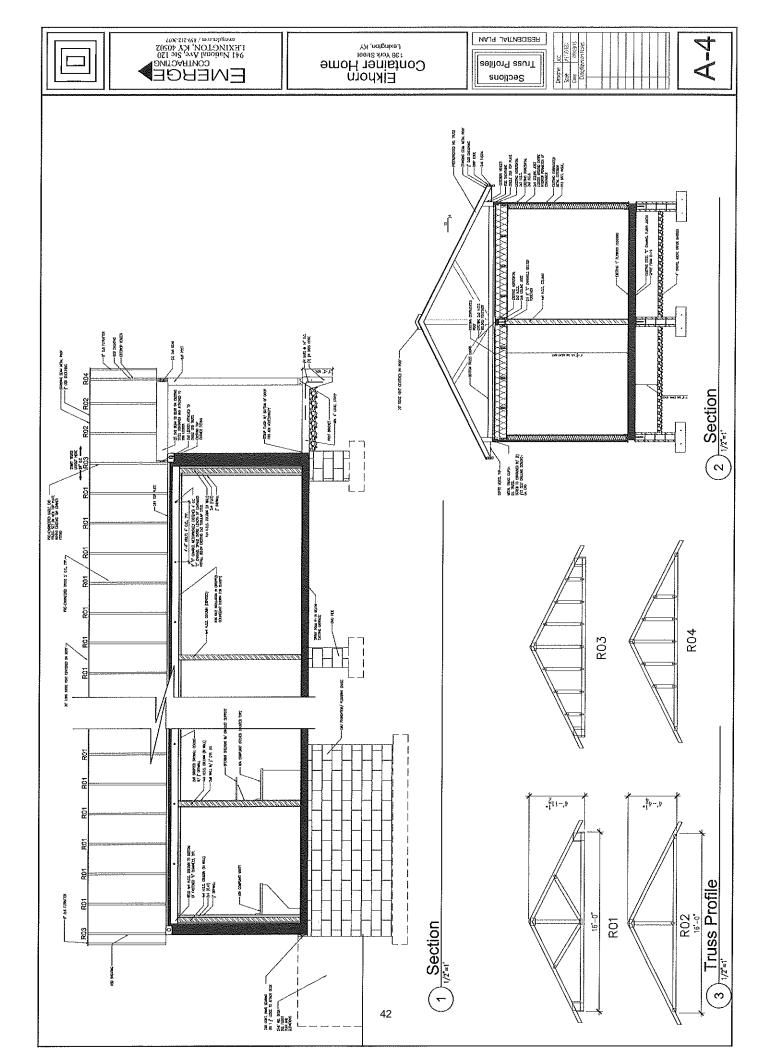


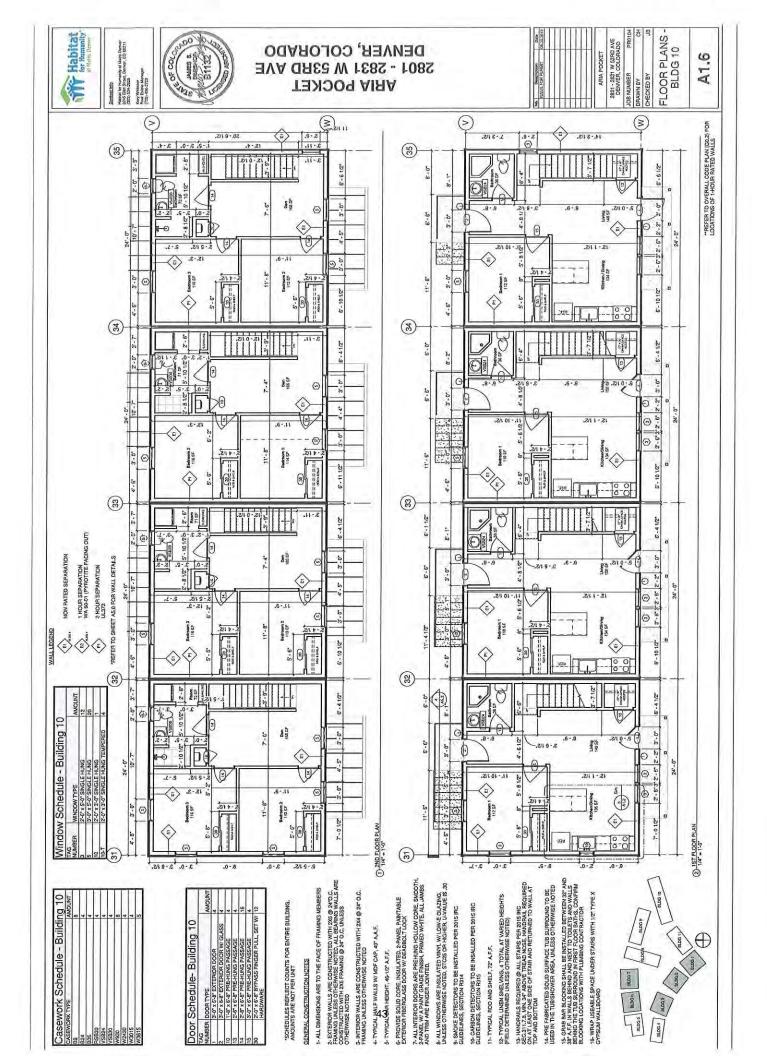


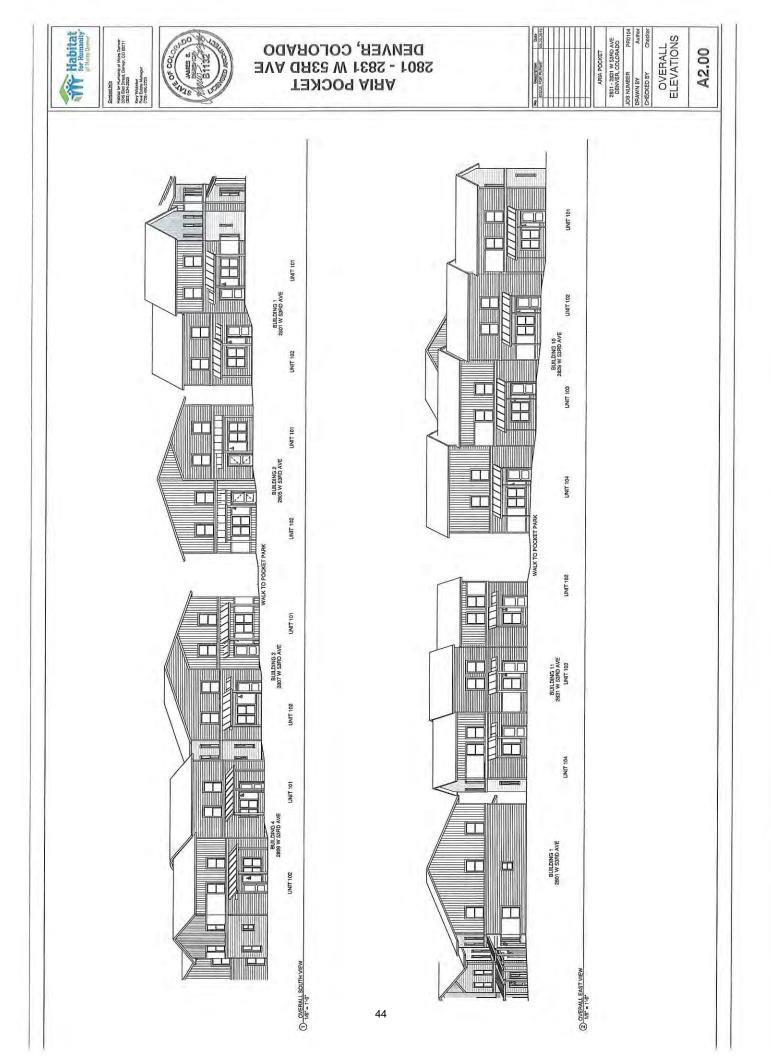




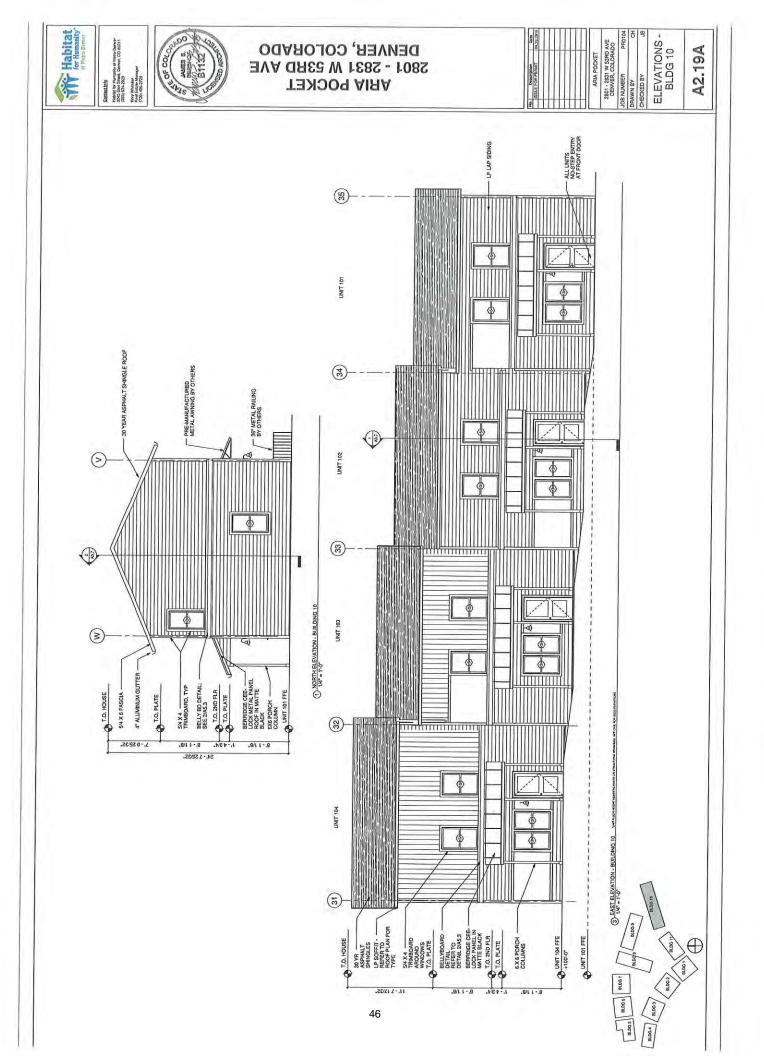










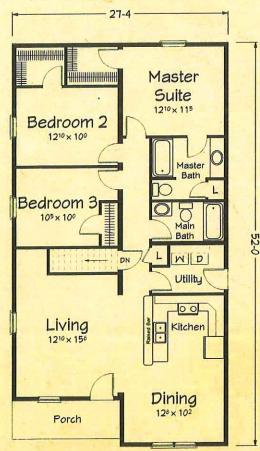


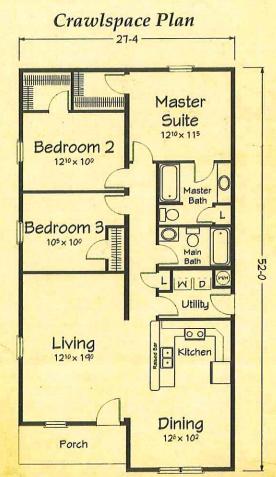
CALABASH

Ranch



Basement Plan

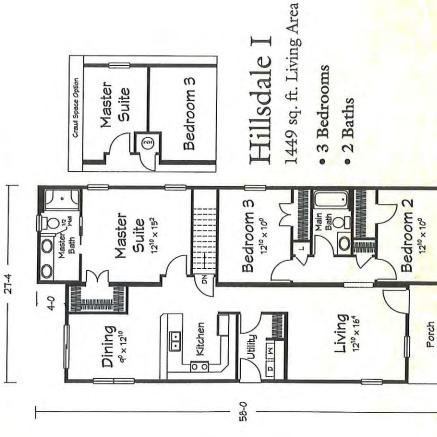




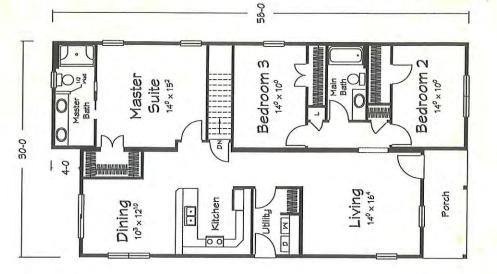
Artist renderings depict homes as they may be built on a typical site. Renderings may include optional or site installed features. Refer to "Heritage Gollection" specifications and be sure to thoroughly discuss all aspects of your building project with your homebuilder.







Hillsdale RANCH PLAN

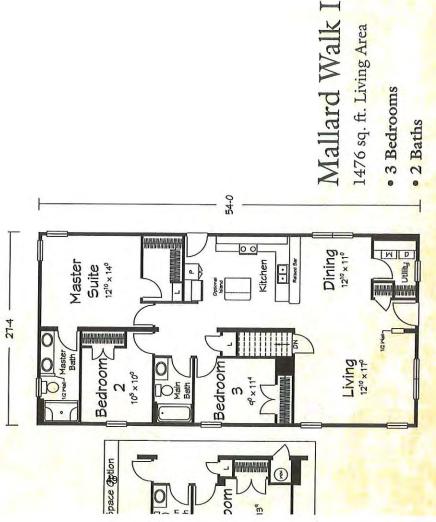




Hillsdale II 1590 sq. ft. Living Area • 3 Bedrooms

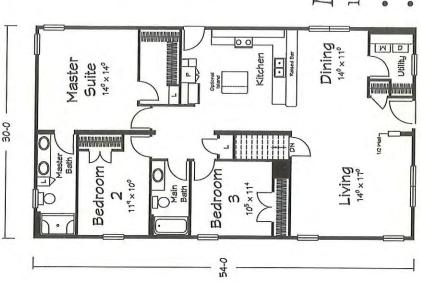
• 2 Baths





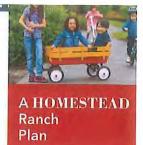
lan exterior dimensions and interior room sizes are accurate, but may have been led" for brochure plans. Always refer to Ritz Craft provided prints for actual dimensions.

Mallard Walk RANCH PLAN



Mallard Walk II 1620 sq. ft. Living Area

3 Bedrooms 2 Baths



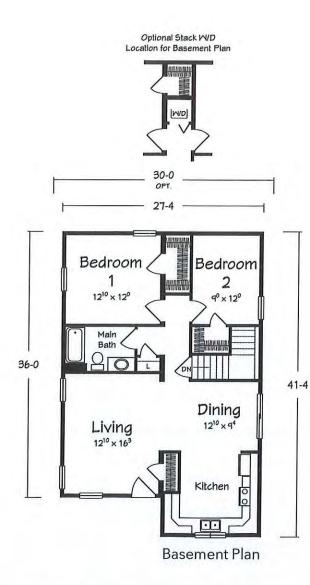
MALVERN

RANCH 1057-1160 square feet 2 Bedrooms • 1 Bath

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Shown with site built porch.

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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 5, 2023

Drew Myers Senior Planner Monroe County Historic Preservation Board of Review 501 N Morton St. 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. Myers,

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 subrecipients 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,

Glori Molom Grain

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



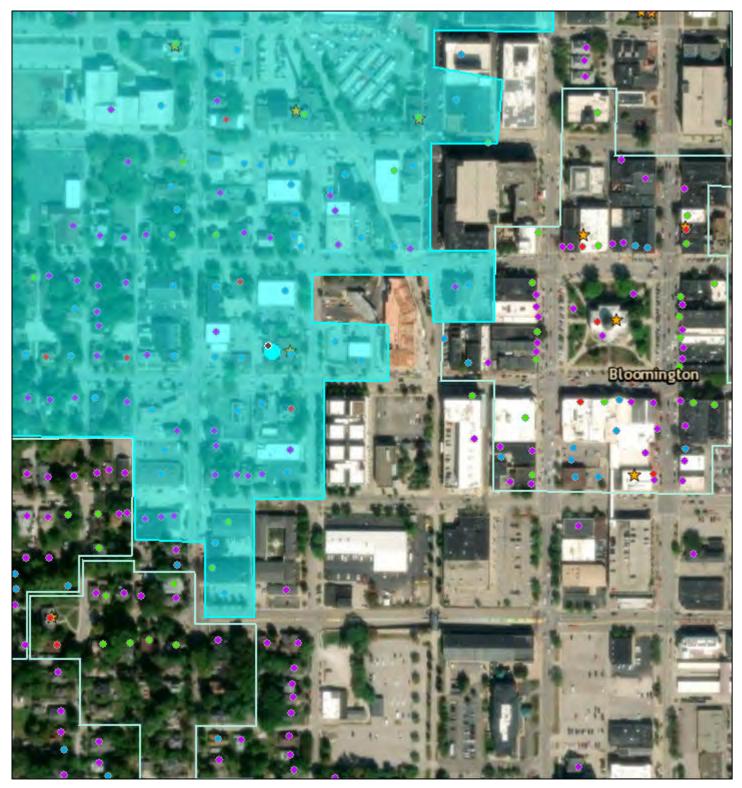
410 W Kirkwood Ave - Location and Historic

	W 7th St	
	W 6th St	
	Skodersky state in the state in	
		10.01 0.02 0.03 0.04 mi
Map Legend National Historic Register Outstanding Notable Created: 9/1/2023 Man By:	 Contributing Building Areas Non-Contributing Monroe County Parcels 5% comington Municipal Boundary 	mation only, information is NOT warrante

Created: 9/1/2023 Map By:

For use as map information only, information is NOT warranted.

Historic Buildings, Bridges, and Cemeteries Map



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

County Survey Sites

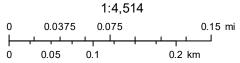
- Outstanding
- Notable
- Contributing
- Non-Contributing

Override 1

National Register Sites

Historic Districts

- Override 1
 - Historic Districts

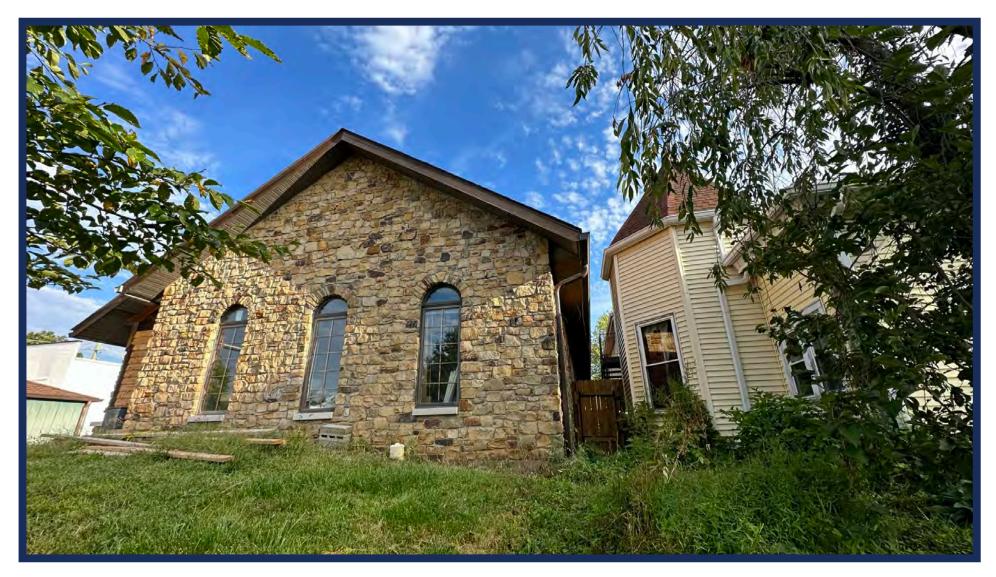


Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



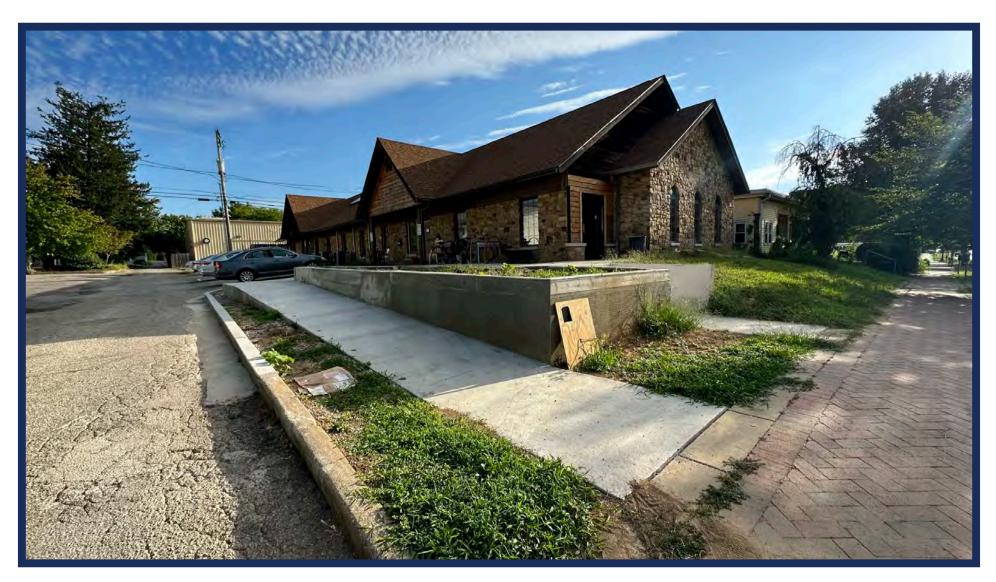
Bloomington Cooperative Living (410 W Kirkwood Ave., Bloomington, IN) Photo 1 Site Visit September 5, 2023 403 W Kirkwood Ave. - View from north to south, property across the street.





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) $\frac{56}{56}$





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.

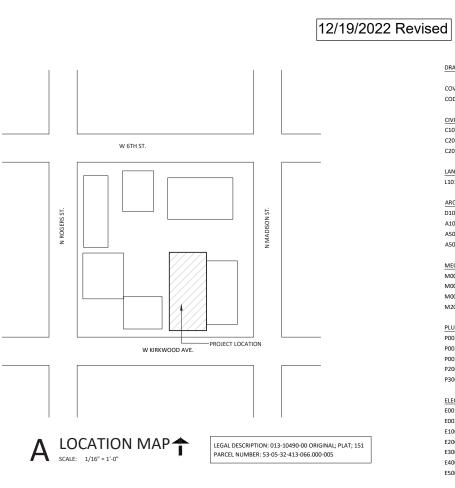




Bloomington Cooperative Living (410 W Kirkwood Ave., Bloomington, IN) Photo 4 Site Visit September 5, 2023 View looking from the west to the south east.



ARCHITECT'S PROJECT NO. 2022-26 BLOOMINGTON COOPERATIVE LIVING 410 W. KIRKWOOD AVENUE, BLOOMINGTON, IN



CIVIL ENGINEER



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

^{ad} SEPTEMBER 23, 2022

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 DEMOLTION PLAN ELECTRICAL E200 LIGHTING PLAN E300 POWER PLAN E400 PANEL SCHEDULES E500 ELECTRICAL SPECIFICATIONS



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.). 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

aroup		Type of Construction	
	17	Type V	Actual Area
1.1	and the second second	8	
A-2	Stories	1	1
1100	Area (sf)	5,000	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 waits 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 S08 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		B
	5	NS
A & 8	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:

1. Corridor walls permitted to have a % 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 36 hour in buildings.
- equipped throughout with an automatic sprinkler system in accordance with Secti 903.3.1.1

Section 707 Fire Barriers

707.8.9 Separated Occupancies. Where the provisions of Section 508.4 are applicable, the fire barrier separating mixed occupancies shall have a fire-resistance rations 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 criterio 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 130 under 903.3.1,3.

Chapter 10 - Means of Egress

Function of Space	Occupant Load Factor	Actual Area	Actual Occupant Load
Assembly, concentrated	7 net	644	96
Residential	200 gross	2,940	15

TOTAL

Section 1015. Exit and Exit Access Doorways 1025.1 Exits or exit access doorways from spaces. Two exits or exit excess 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-

2x4 WOOD STUDS 16" O.C.

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.

Occupancy	Without Sprinkler System	With Sprinkler Syster		
A.R	200	250		

Occupancy	Occupant Load Served	Required Fire-Resistance Rating (hours)			
	by Corridor	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...

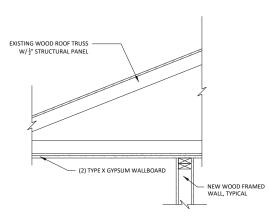
1107.6.3 Group R-3. In the Group R-3 occupancies where there are four or more dwelling units or sleeping units intended to be occupied as a residence in a single structure, every dwelling unit and sleeping unit intended to be occupied as a residence shall be a Type B unit.

Chapter 29 - Plumbing Systems

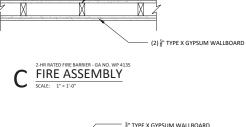
Classification	Occupancy		sets	Lava	tories	Bathtubs or Showers	Drinking Fountains	Other
	1	м	F	M	F.			1.10
Assembly	A-2	1 per 75		per 75 1 per 200		Ø	footnote 'h' & 'f'	1 service sink
Residential	H-3	1 pe	er 10	10	er 10	1 per 8	1 per 100	1 service

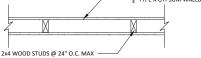
Footnote 'h' - Drinking fountains not required where water is served in restaurants free of charge or water. Water will be provided

Section 2902.2 Separate Facilities Where plumbing fixtures are required, separate facilities shall be provided for each sex.

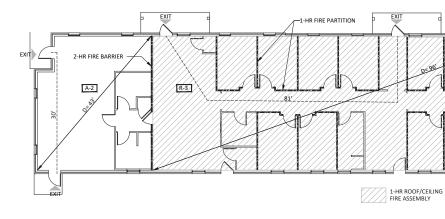


D FIRE ASSEMBLY



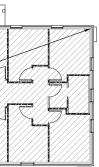


NO. WP 4136 FIRE ASSEMBLY В





61





522 WEST SECOND STREET BLOOMINGTON, INDIANA 47403 812.318.2930 ww.springpointarchitects.com



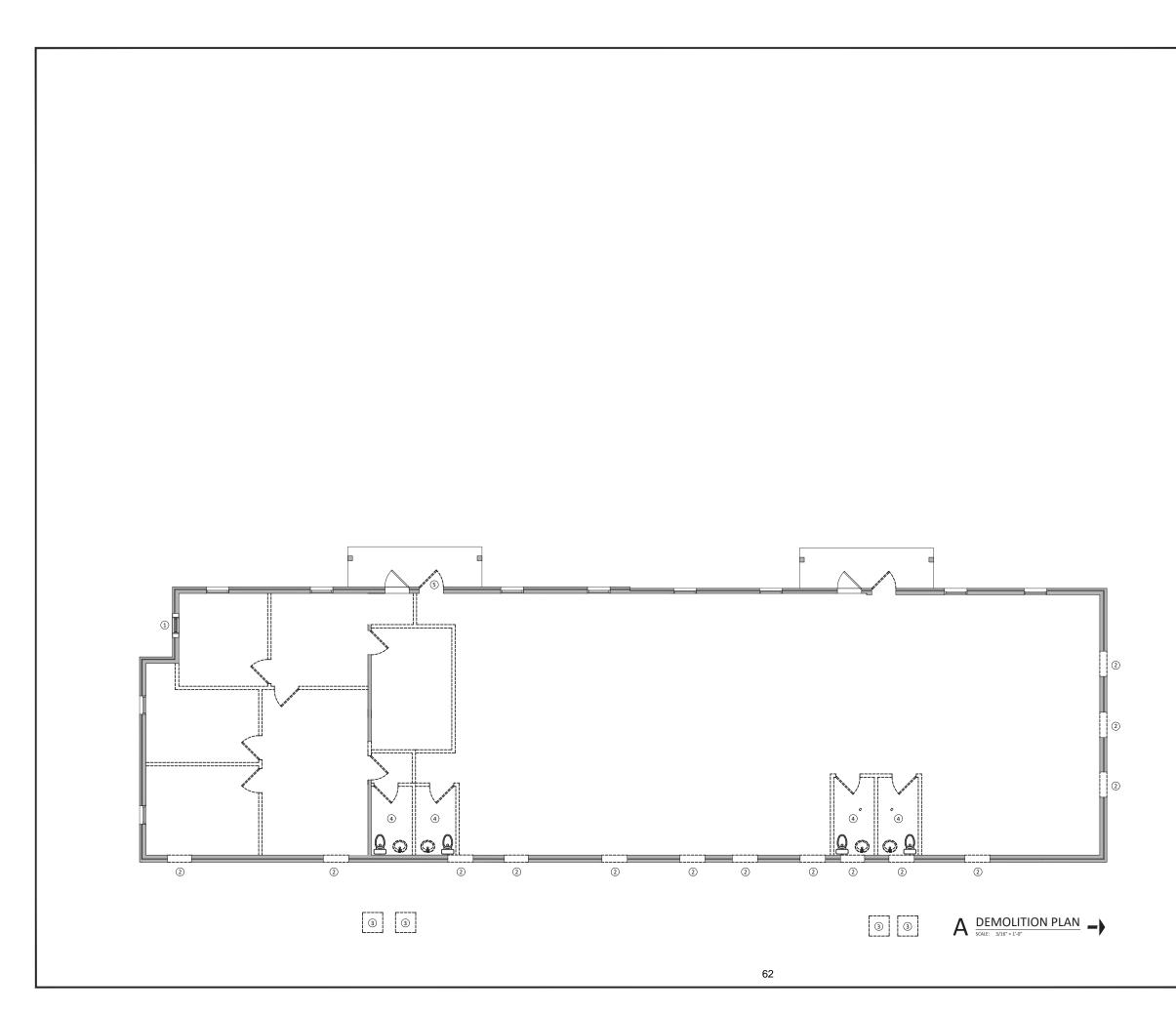
ISSUE DATE: REVISION DATE: 09.23.2022 12.19.2022

sheet title

CODE REVIEW, PLANS, & DRAWING INDEX

sheet number

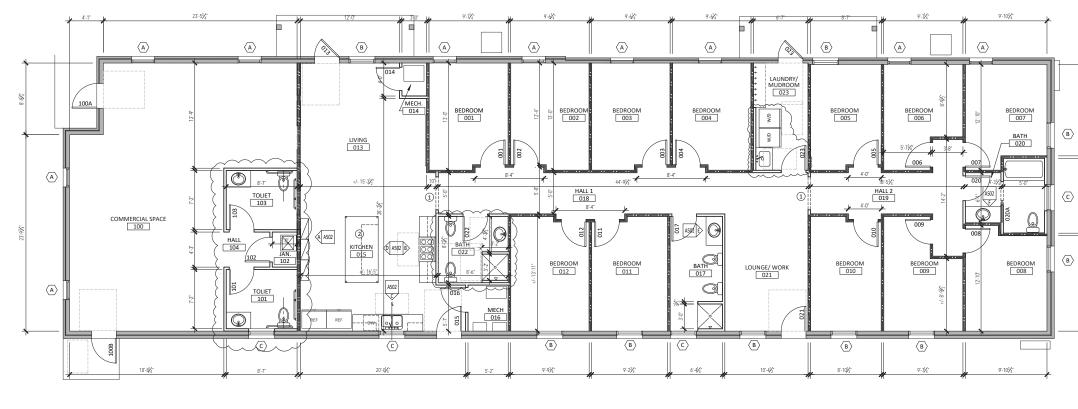
CODE



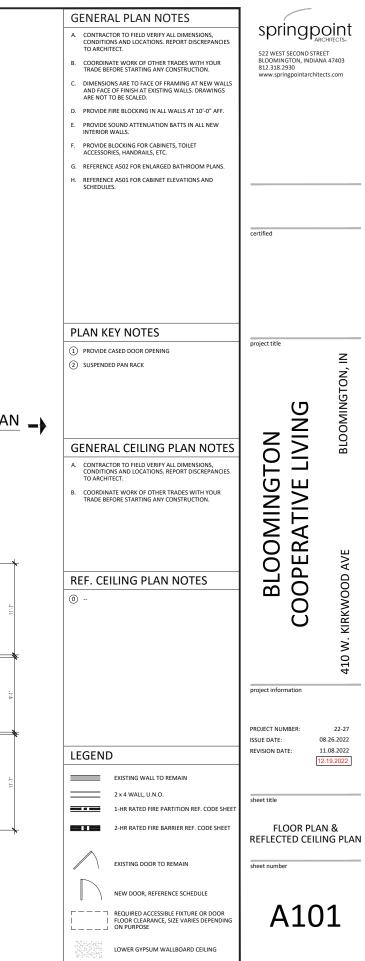
D	EMOLITION GENERAL NOTES	
Α.	CONTRACTOR SHALL VERIFY IN FIELD LIMITS OF DEMOLITION REQUIRED FOR NEW WORK. NOTIFY ARCHITECT OF DISCREPANCIES.	
В.	SECURE STRUCTURE WHEN REMOVING ITEMS. NOTIFY ARCHITECT OF ANY STRUCTURAL ISSUES.	522 WEST SECOND STREET BLOOMINGTON, INDIANA 47403 812.318.2930
C.	WHERE REMOVAL OF ITEMS LEAVES HOLES AND DAMAGED SURFACES THAT WILL BE EXPOSED IN FINISHED WORK, PATCH AND REPAIR TO MATCH ADJACENT SURFACES.	www.springpointarchitects.com
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.	
		and the d
		certified
		MOLARIA CONTRACTOR
		ADIANA THE CHITTER
-		Juli Hopp 9.23.22 project title
(1) (2)	REMOVE WINDOW AND SECTION OF WALL FOR NEW DOOR LOCATION REMOVE SECTION OF WALL FOR NEW OPENING	Z
~		N /ING LOOMINGTON, IN
	REMOVE BATHROOM COMPLETE REMOVE DOOR, SALVAGE FOR REINSTALLATION	ט צ
e		
		Ц С Ц
		OOMINGTON ERATIVE LIVI
		CO 410 W. KIRKWG
		KIR O
		project information
		PROJECT NUMBER: 22-27 ISSUE DATE: 09.23.2022 REVISION DATE: 12.19.2022
		sheet title
		DEMOLITION PLANS
		sheet number
LE	EGEND	D101
	EXISTING WALL TO REMAIN	
:	WALL OR ITEM TO BE REMOVED	



B REFLECTED CEILING PLAN \rightarrow







	HARDW	ARE SCHEDUL	.E
SET NO.	SPECIFICATION		
	LIVING UNIT ENTRY (013 & 023)		
	EXISTING		HINGES
	1 EA.		KEYPAD ENTRY LOCK*
1	EXISTING		CLOSER
	EXISTING		THRESHOLD
	EXISTING		HEAD & JAMB WEATHERSTRIP
	EXISTING		BOTTOM SWEEP
	LIVING UNIT ENTRY-2 (015 & 021)		
	3 EA. BB1279 NRP 4 ½ x 4 ½	US26D	HINGES
2	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)		
	EXISTING		HINGES
	1 EA. CD98L-NL	626	RIM EXIT DEVICE
	1 EA. 1E72	626	RIM CYLINDER
3	EXISTING		CLOSER
	EXISTING		THRESHOLD
	EXISTING		HEAD & JAMB WEATHERSTRIP
	EXISTING		BOTTOM SWEEP
	COMMERCIAL SPACE ENTRY-2 (100B)		
	3 EA. BB1279 NRP 4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	US26D	HINGES
	1 EA. CD98L-NL	626	RIM EXIT DEVICE
	1 EA. 1E72	626	RIM CYLINDER
4	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
	COMMERCIAL SPACE ENTRY - 90 MINUTE F	IRE RATED OPENING (104)	
	3 EA. BB1279 NRP 4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	US26D	HINGES
5	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 $\frac{1}{2}$ x 4 $\frac{1}{2}$	US26D	HINGES
-	1 EA. 9K30N15D	626	PASSAGE
	1 EA. 236W	US26D	WALL STOP
	PRIVACY-RESTROOM (101, 103, 017, 020)		
	3 EA. BB1279 NRP 4 ½ x 4 ½	US26D	HINGES
7	1 EA. 9K30N15D	626	PASSAGE
	1 EA. 3216	626	DEADBOLT W/OCCUPANCY INDICATO
	1 EA. 4041 SCUSH	ALUM	CLOSER
	1 EA. 236W	US26D	WALL STOP
	1 EA. 1905 - 6x34	US26D	MOP PLATE
			3, 004, 005, 006, 007, 008, 009, 010, 011, 012)
	3 EA. BB1279 NRP 4 ½ x 4 ½	US26D	HINGES
8	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: 1. 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.

2. 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.

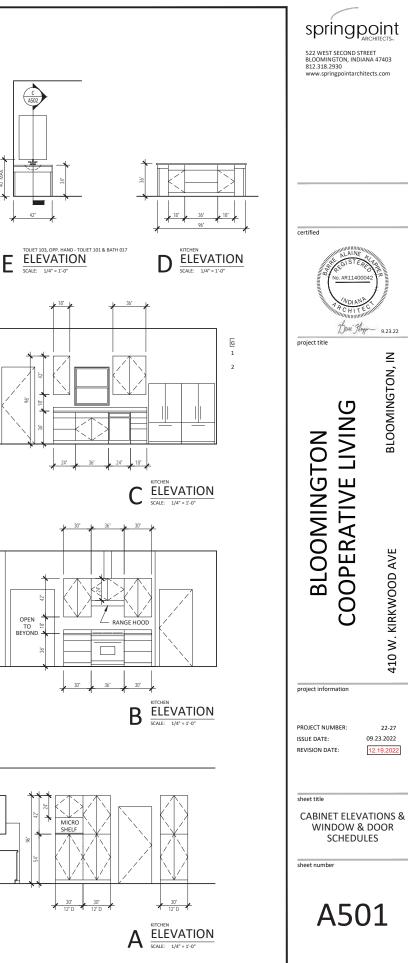
4. ALL DOOR TRIM TO BE LEVER STYLE, ADA COMPLIANT.

PRODUCTS: KEYPAD ENTRY LOCKSET: COORDINATE WITH OWNER HINGES: STAINLESS STEEL, MCKINNEY OR EQUAL LOCKSET: CYLINDRICAL, BEST ACESS 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	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	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	-	



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



		WINDO	N SCHEDU	LE			
WINDOW	MFR.	SERIES	OPERATION	MODEL NO.	R.O. WIDTH	R.O. HEIGHT	REMARKS
A	EXISTING	EXISTING	FIXED	NA	2'-9 ³ / ₄ "	5'-4"	-
В	PELLA	LIFESTYLE SERIES WOOD OR EQUAL	DOUBLE HUNG	3765	3'-1 ³ / ₄ "	5'-5 3"	-
С	PELLA	LIFESTYLE SERIES WOOD OR EQUAL	DOUBLE HUNG	3741	$3'-1\frac{3}{4}''$	3'-5 ³ / ₄ "	-
D	PELLA	LIFESTYLE SERIES WOOD OR EQUAL	CASEMENT	CUSTOM	2'-9 3"	5'-4"	1

REMARKS: 1. EXISTING DOOR RELOCATED. 2. HALF-LITE DOOR.

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

 GENERAL NOTES:

 A.
 WINDOWS TO MEET SHGC-0.25 AND U-3.69.

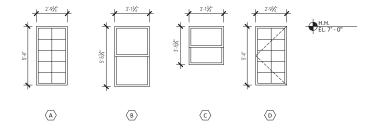
 B.
 COORDINATE INTERIOR & EXTERIOR FINISHES OF NEW WINDOWS WITH EXISTING.

 C.
 WINDOWS IN BATHROOMS AND TOILET ROOMS TO BE TEMPERED AND HAVE OBSCURE GLAZING.

WINDOWS ADJACENT TO DOORS TO BE TEMPERED.

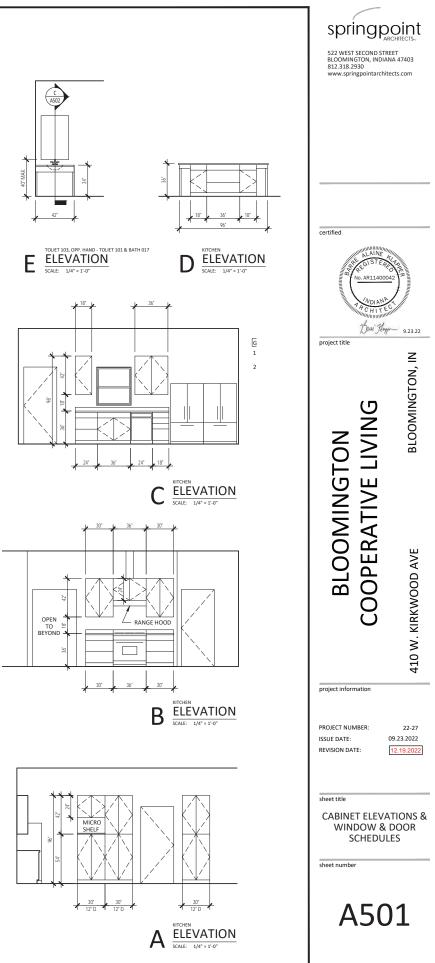
D

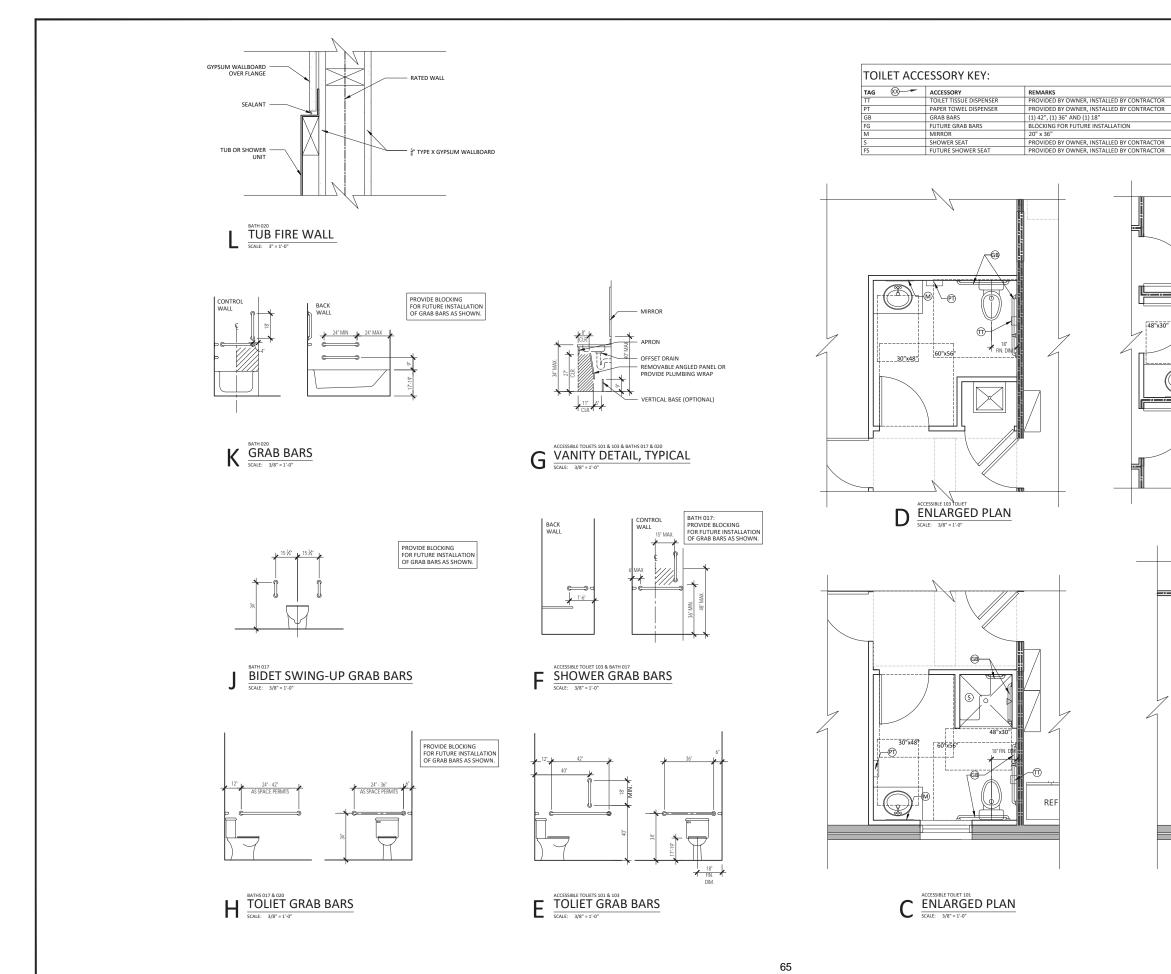
REMARKS: 1. VERIFY SIZE IN FIELD.

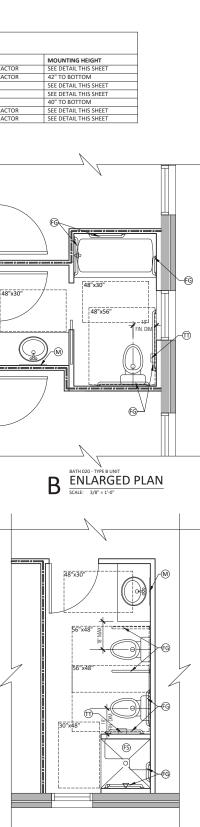




GENERAL NOTES 1. PROVIDE FILLER PANELS AS REQUIRED. 2. PROVIDE FINISHED ENDS AT EXPOSED CABINET SIDES.



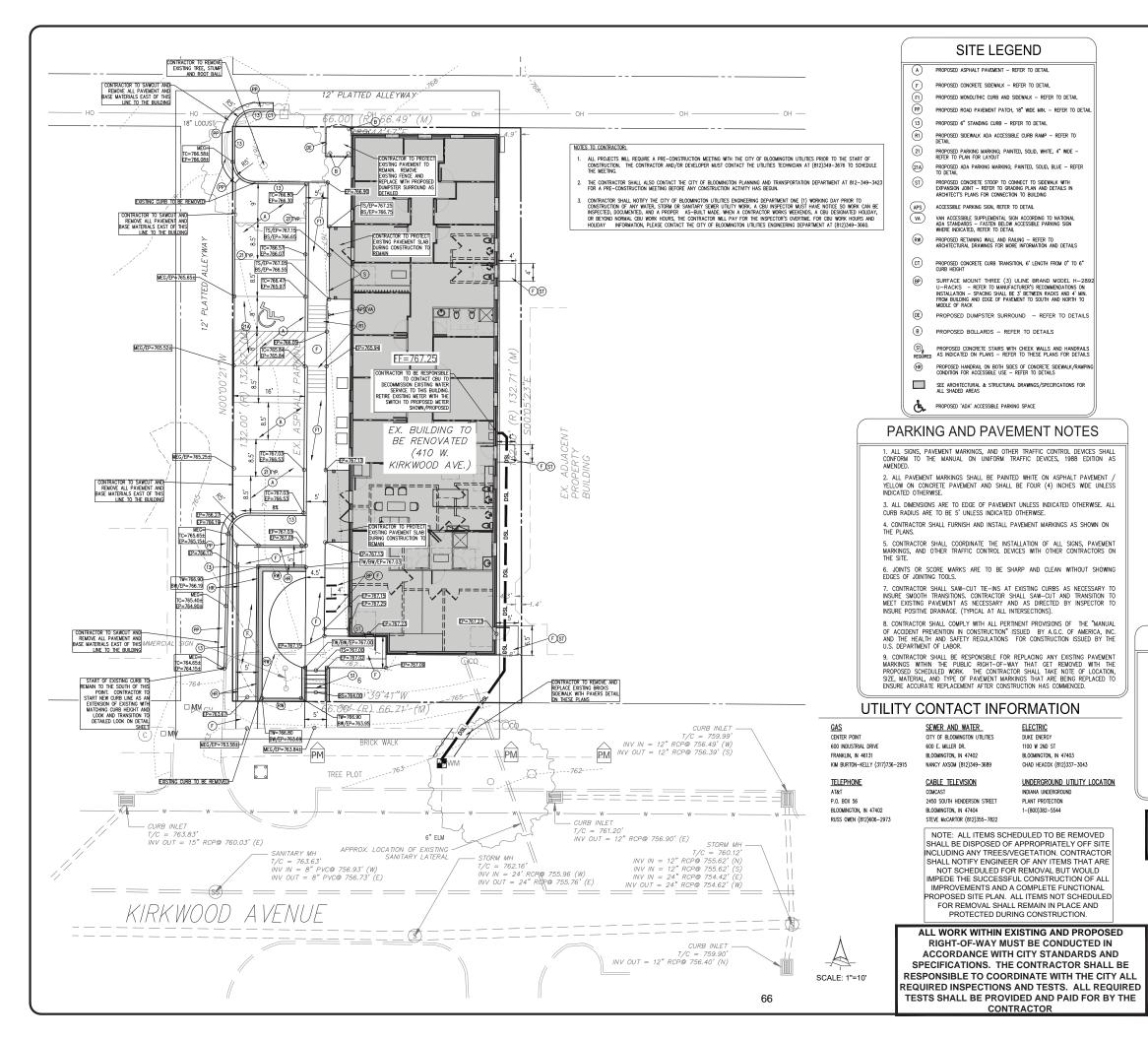




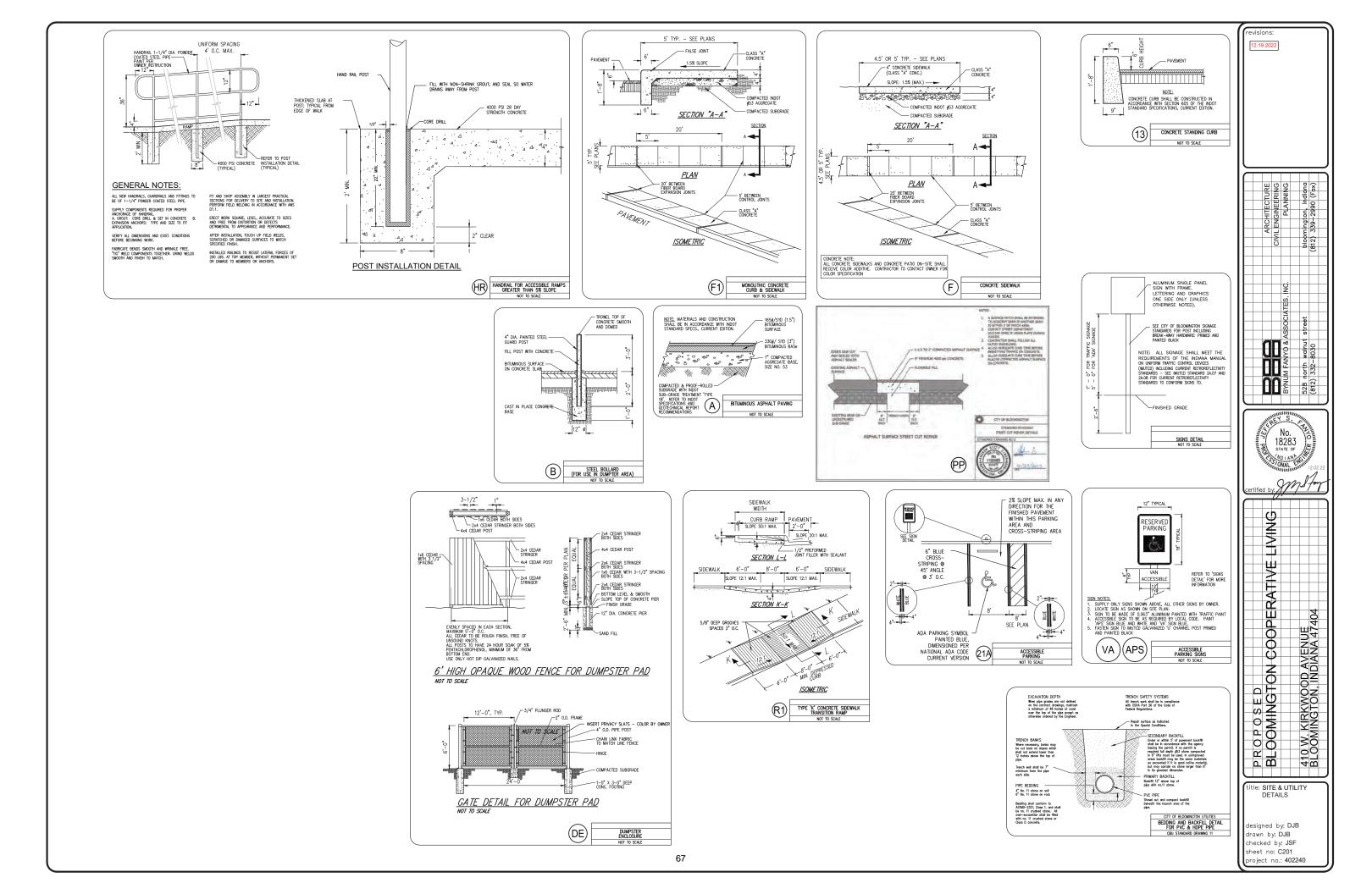


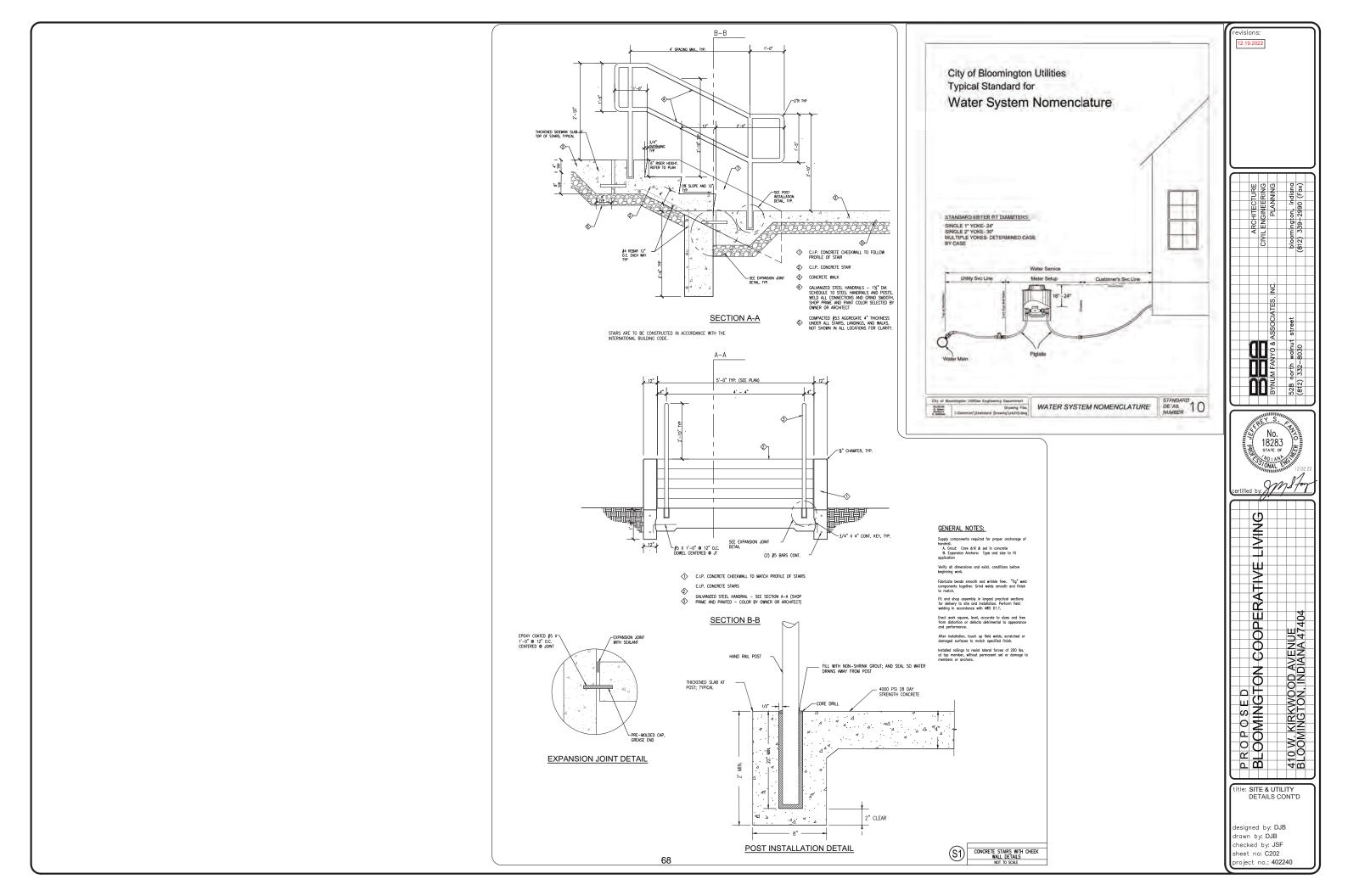


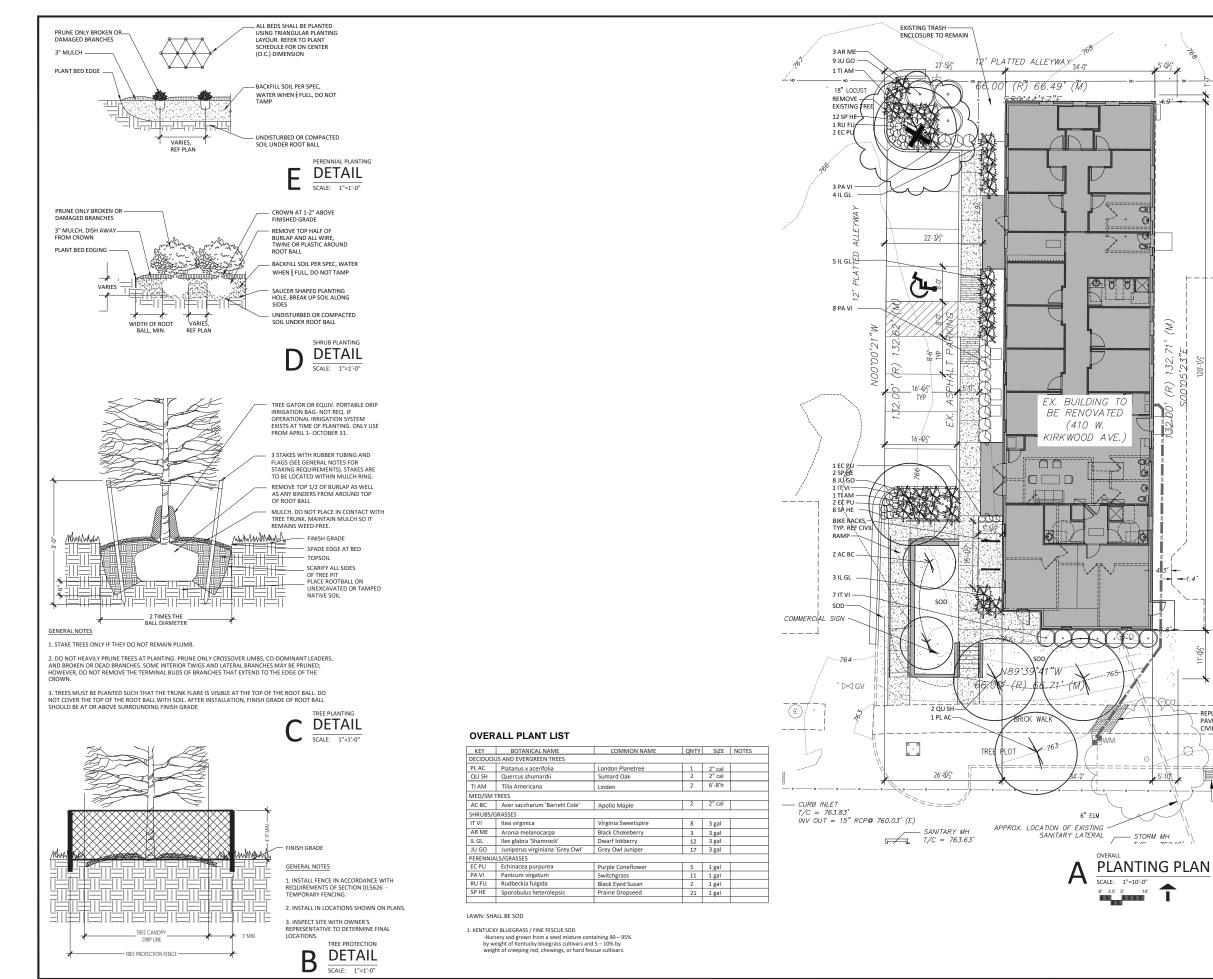
A502

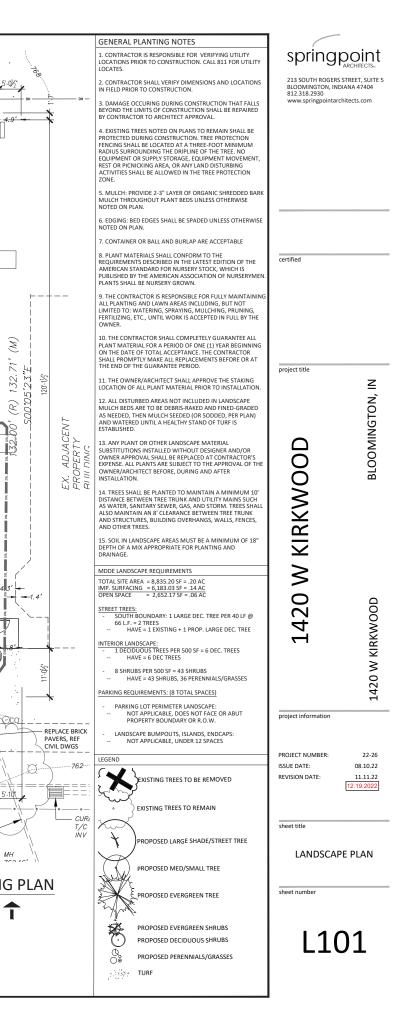


	revisions:
EXISTING LEGEND	12.19.2022
EXISTING FENCE X X	
EXISTING WATER LINE W	
EXISTING UNDERGROUND ELECTRIC UGE UGE	
EXISTING UNDERGROUND TELEPHONE UGT	
EXISTING UNDERGROUND FIBER FO	
EXISTING GAS LINE GAS	
EXISTING SANITARY FORCEMAIN FM	
EXISTING CONTOURXXX	
MANHOLE	김 교 로 (히뜨)
EXISTING STORM SEWER AND INLET	HITEC JGINEE PLAN, in -2990
SANITARY MANHOLE (SS) STORM MANHOLE (S)	ARC) 339-
MONITORING VALVE	CIVIL A bloom (812) 3
GAS VALVE 🖂 GV	
COMMUNICATIONS MANHOLE	
PARKING METER	<u> </u>
	– – – – – – – – – – – – – – – – – – –
CURB INLET	street
POWER POLE	
PROPERTY LINE	A PAN
	(812) L
UTILITY LEGEND	
PROPOSED 2' <u>BRIVATE</u> DOMESTIC SERVICE UNE: ALL DOMESTIC SERVICE LINES USE SOR-21 AND FITTINGS FOR DOMESTIC WATER SERVICE LINES. THE UMMINM SIR-21 ALLOWABLE WATERIAL SHALL BE SHALL BE FREZO AND CONFORM TO ASTIM D224 AND D339 WITH PUSH-ON JOINTS SUCKINT COMENT JOINTS WILL NOT BE ALLOWED FOR PVC. ALL FITTINGS SHALL BE CF THE TYPE AND MATERIAL RECOMMENDED BY THE MANAFCHTURER. LECENTOWERING GASCRES SHALL BE MANUFACTURED TO CONFORM TO ASTIM F-477, 48° COVER UNIN, REFER TO THE 'P' SERVES DRAWINGS FOR MORE INFORMATION AND FRAIL SZE DETERMINATION ON THIS WATER LINE. CONTRACTOR TO REUSE EXISTING WATER METER PIT WITH NEW PROPOSED WATER UNCAS BURCHED THE FOR BUILDING. USE A 2' DOMESTIC METER Y CASSETTER IN METER PIT PER GBU STANDARDS. REFER TO GBU SPECIFICATIONS. COORDINATE FINAL SIZE OF REQUIRED METER WITH CBU	HE'S No. 18283 STATE of Montematical States Montematical States Mo
PROPOSED WATER VALVE PER CBU SPECIFICATIONS	
NOTE: ALL WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BLOOMINGTON UTILITY SPECIFICATIONS.	
GENERAL NOTES	
1. 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 	
4. ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.	
5. ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.	474 474
6. 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. 	
8. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.	T A A A A A A A A A A A A A A A A A A A
THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF	NG T NG T NO NG T
TRANSPORATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & CITY OF BLOOMINGTON UTILITIES STANDARD SPECIFICATIONS IS TO BE USED WITH THESE PLANS	
	PRO BLO BLOV BLOO
TOTAL LOT ACREACE: 8,835 SQ. FT. = 0.20 ACRES	
TOTAL PROPOSED IMPERVIOUS AREA (WITHIN LOT AREA) = 6,891 SQ. FT. = 0.16 ACRES = 78%	title: SITE PLAN
TOTAL PROPOSED PARKING: 7 STALLS WITH 1 ADA = 8 TOTAL	
NOTE TO CONTRACTOR	designed by: DJB
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.	checked by: JSF sheet no: C101









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 REFER IO ARCHITECTORAL REFLECTED CELLUNG PLANS POR EAACT LOCATION OF CHAILING 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-LEAKPROOF 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
- S. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR <u>PRIOR TO PLACING EQUIPMENT ON ORDER.</u>
- 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.

											Furi	nace, D	X Coil	and Co	ndensing Unit Sched	ule										-
							F	urnace													Condensi	ng Unit				
GENERAL IN	FORMATION	1	NDOOR FAN	-	HEATING PE	RFORMANCE		DX COOLING	COIL			ELECTRICAL					GENERA	LINFORM	ATION			ELECTRICAL				
TAG	OA	CFM	E.S.P.	НР	м	вн	м	IBH	EDB	EWB	Voltage	FLA	MOP	Approx Weight	Furnace Manufacturer Model	TAG	NOMINAL	AMB. AIR	TOTAL	MIN.	Voltage	MCA	мор	Approx Weight	Condensing Unit Manufacturer Model	NOTES
	CFM	crim.	LIGHT		INPUT	OUTPUT	TOTAL	SENSIBLE	200		Tortage	151	11101	LBS	Number	inte	TONS	TEMP F.	MBH	SEER	Fortage	- Micri		LBS	Number	Hores
F-1	160	1400	0.5"	1.0	100.0	97.0	42.0	34.9	80	67	120	19.1	20	261	CARRIER 53MN 7A 100V 2120	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 53MN7A100V2120	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 53MN7A100V2120	CU-3	3.5	95	42.0	14.0	208/1	27.8	40	363	CARRIER 24ACB742A0030	1,2,3,4
NOTES:																										

Horizontal condensing type furnace, modulating heating, variable speed motor wilth matching cased dx coil, filtered return, 3" vertical exterior concentric vent mounting kit

Photomismic grape unitace, incounting nearing, variance speed inclosi with inacting cased us corr, interest entry of the service varies. Condensing Unit to be provided with start assist it is (no ambeint control); crank case heaters, five minutes restart time delay, and service varies. 2-speed scroll compressor, internal pressure relief valve, internal thermal overload, por pressure switch, high pressure switch, filter drier, louvered coil guard, 7-DAY SPECIFIED CONTROL PROGRAMMABLE THERMOSTAT WITH REMOTE SENSORS.

Vertical condensing type furnace, modulating heating, variable speed motor with matching cased dx coil, filtered return, 3" vertical exterior concentric vent mounting kit.

DU	CT INSULATIO	ON SCHEDULE	Ē		
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	1			
INSUL	ATION TYPES	JACKETTYPES			
FE FLEXI	BLE ELASTOMERIC	FP FOIL & KRAFT PAPER			
CG CELLU	LAR GLASS	PVC CELLULAR GLASS			
MF MINER	AL FIBER (FIBERGLASS)	AL ALUMINUM			
PO POLYC	DLEFIN	SS STAINLESS STEEL			
CS CALCI	UM SILICATE				
CCF CLOSE	D-CELL FOAM				

-::	2.	990 N.C	7074, 24858,748 2707	· 12 1 23	0.444	627 (2017) 202 10225,103	165.15		
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-	38	3		13.47	-	- 18 St.	2.6	successful Burney Mourrey	
Ξ	3400	2-		22.435	·.	P1 x 2 1	2.02	Reform Burraye Mounted	
-		:5		12.48	-	-:=::5	2.17	Reform Surface Wouldhald	::
3	-52			24.62	-	85	23.42	Forum Europe Maurica	

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	FAN DATA								ELE	CTRICAL	DATA	GENERA	INFORMATION		
	TAG	CFM	LOW SPEED CFM	ESP IN. W.C.	TIP SPEED	RPM	SONES	AMPS	VOLTAGE	внр	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
\sim	~##-5~~	75		-0.35"	~~~~	~856~	~~	-0-13	120/1	~~~~	BATHROOMUGHIS	PANASQNICEV-05104SC1	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

GRILLE, REGISTER, DIFFUSER AND LOUVER SCHEDULE

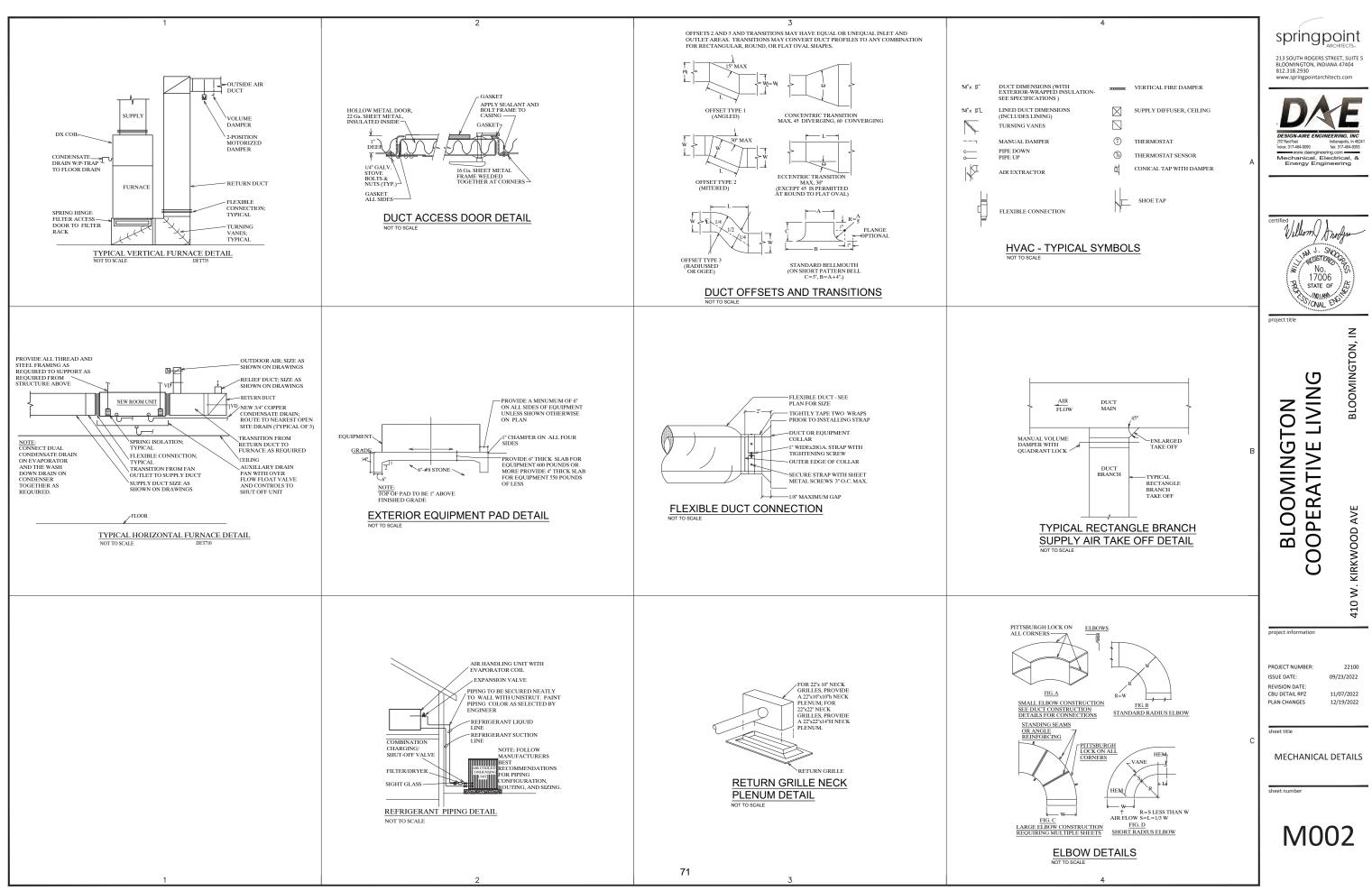
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springpoint 213 SOUTH ROGERS STREET, SUITE 5 BLOOMINGTON, INDIANA 47404 812.318.2930 ww.springpointarchitects.com STATE O /MDIAN /ONAL project title Ζ ON. BLOOMING J LIVING BLOOMINGTON COOPERATIVE AVE KIRKWOOD , ≥ 410 project information PROJECT NUMBER: 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



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 A/1008 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.
- F. 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 1-12-INCH GALVANIZED CARBON-STEEL WASHER.
- 2. INSULATION-RETAINING WASHERS SHALL BE SELF-LOCKING WASHERS FORMED FROM 0.016-INCH THICK GALVANIZED STEEL; WITH BEVELED 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 CADMUM-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 12".
- 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.
- L 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

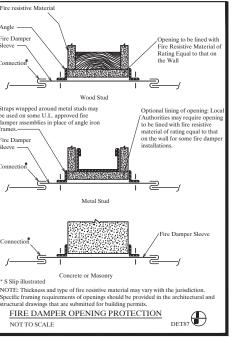
A. INTERMEDIATE REINFORCEMENT SHALL BE GALVANIZED STEEL.

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 CONNERS, FLANGELESS FRAMES FOR INSTALLATION IN DUCTS, STAINLESS STIFFEN DAMPER BLADGE AND OIL IMPERIATED 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/ SO YD
- WITH A TENSILE STRENGTH OF 480 LBF/ INCH IN THE WRAP AND 360 LBF/INCH IN THE FILLING AT -40^OF TO 200^OF. C. OUTDOOR SYSTEM FLEXIBLE CONNECTOR SHALL BE GLASS FABRIC DOUBLE COATED WITH PROOF, SYNTHETIC RUBBER RESISTANT TO UV RAYS ND 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^OF TO 250^OF.
- 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 -20¹⁰ FTO 175⁰ F.
- B. INSULATED, FLEXIBLE DUCT SHALL BE BLACK POLYMER FILM SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WRE; FIBROUS-GLASS INSULATION WITH ALUMINIZED VAROR BARRIER FILM PRESURE RATING SHALL BE 4" WG TO -0.5" WG AT A MAXIMUM AIR VELOCITY OF 4000 FPM AND A TEMPERATURE RAGIO CF -30¹⁵ FTO 15⁴F.
- C. STAINLESS STEEL CLAMPS WITH CADMIUM-PLATED HEX SCREW TO TIGHTN 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:
- DOWNSTREAM FROM DAMPERS AND EQUIPMENT. 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.
- CONTROL DEVICES REOUIRING INSPECTION. 4. ELSEWHERE AS INDICATED.
- E. INSTALL ACCESS DOORS WITH SWING AGAINST DUCT STATIC PRESSURE.
- F. ACCESS DOOR SIZES:
- ONE-HAND OR INSPECTION ACCESS: 8 BY 5 INCHES.
- TWO-HAND ACCESS: 12 BY 6 INCHES. HEAD AND HAND ACCESS: 18 BY 10 INCHES. 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.



Typical Installation Details:

A)Retaining Angles: Minimum 1-1/2" x 1-1/2" x 0.054 (16 ga.)

etaining angles must tap structural openir 1" minimum and cover corners of opening

B) Clearance: 1/8" per Linear Foot. Both dimensions (see Note 1 below)

C) Steel Sleeve: see table for Minimum Sleeve Thickness for Fire Dampers.

ved Fire Damper (curtain or blade type

- E) Secure Retaining Angles to Sleev ONLY, on 8" Centers with: 1. 1/2" long welds OR 2. 1/4" bolts and nuts, OR 3. No. 10 steel screws, OR
- 4. Minimum 3/16" steel rivet (F) Secure damper to sleeve on 8" centers with:
- 1. 1/2" long welds, OR 2. 1/4" bolts and nuts in holes provided, OR 3. No. 10 steel screws, OR 4. Minimum 3/16" steel rivets

(G)Connect duct to sleeve as shown on Breakaway Connections Detail and as outlined by Schedule 1

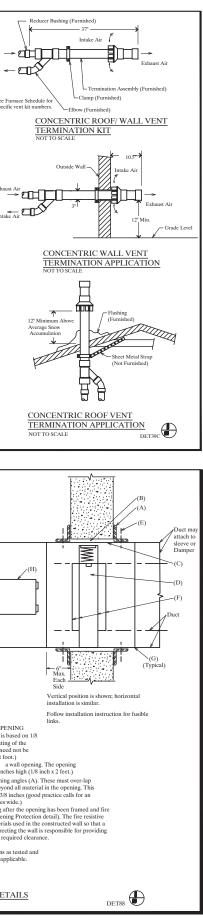
(H)Install access door or panel as shown in detail.

. FIRE DAMPER SLEEVE CLEARANCE WITHIN WALL OPENING Clearance requirements for damper sleeves within a wall opening is based on 1/8 inch per foot of width (or height) unless otherwise stated in the listing of the nbly. The sleeve may rest on the bottom of the opening, and need not be entered. (Fractional dimensions shall be taken as the next largest foot.)

centered. (Fractional dimensions shall be taken as the next largest foot.) Example: A 30 line h 24 inch fire damper sleeve is installed in a wall opening. The opening shall be 30-36 inches wide (1/8 inch x 3 leet) by 24-1/4 inches high (1/8 inch x 2 leet.) The sleeve is retained in the wall opening by the use of steel retaining angles (A). These must over-lap the edge of the framing by a minimum of one (1) inch over and beyond all material in the opening. This means that the minimum width of the retaining angle would be 1-3/8 inches (good practice calls for an additional safety factor by making the angle in this case 1-1/2 inches wide.) The driven service for the nonsing when the those a maximise after the opening. This is been minimum width to nonsing when the those a maximise after the opening the base formed an aduational satery networks for the index pening and in this case 1-12 index sweet.) The dimensional required for the opening use angle in this case 1-12 index sweet. The dimensional gradient of the dimensional system of the di tinuous rating exists at the wall penetration. The Contractor erecting the wall is responsible for providing he fire resistive ma erial and correct size openings to achieve the required clearanc e line resistive material and concernance are pro-

pproved by U.L. Must be used in lieu of the above details where applicable

BASIC FIRE DAMPER INSTALLATION DETAILS NOT TO SCALE



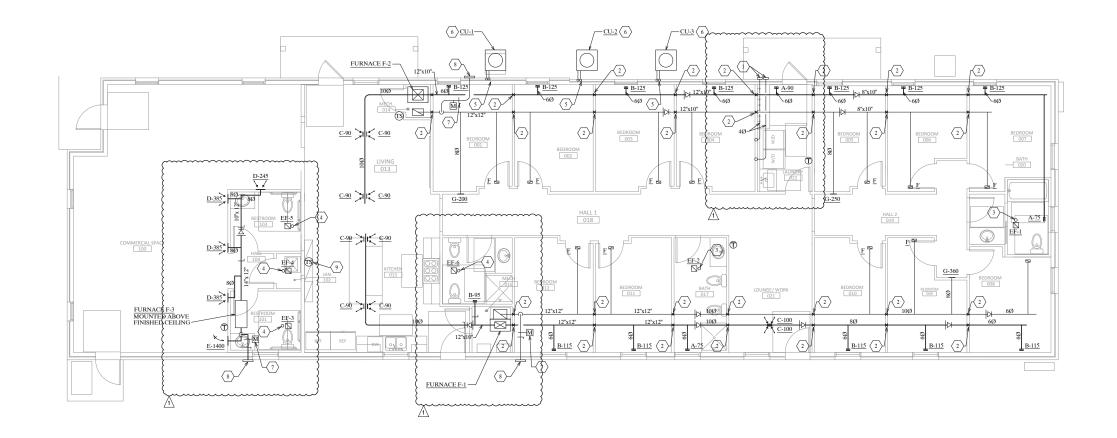


GENERAL NOTES:

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

PLAN NOTES:

- 1. DRY CAP HOOD ON WALL.
- 3. 6Ø UP TO ROOF JACK/HOOD. INSTALL FIRE DAMPER AT CEILING PENETRATION.
- 4. 6Ø UP TO ROOF JACK/HOOD.
- 6. PROVIDE A MINIMUM OF 18" ON ALL SIDES OF CONDENSING UNITS.
- 8. OUTSIDE AIR INTAKE HOOD/LOUVER.



HVAC SEQUENCE OF OPERATION: UNITS F-1/CU-1, F-2/CU-2 & F-3/CU-3:

UNITS F-1/CU-2, F-2/CU-2 & F-3/CU-3:
 ALL UNITS SHALL BE CONTROLLED BY A 24HR/36S DAY PROGRAMABLE THERMOSTAT WITH WIFI ACCESS FOR REMOTE APP CONTROL. F-1 & F-2 SHALL HAVE THERMOSTATS WITH ONE REMOTE. SENSOR FOR TEMPERATURE AVERAGING.
 OUTSIDE AIR: UPON FAN MOTOR STARTING, THE 2-POSITION MOTORIZED OUTSIDE AIR DAMPER SHALL FULLY OPEN. THE MANUAU VOLUME DAMPER SHALL BE ST 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 SHOT.
 FAN OPERATION: SYSTEM/FANS SHALL BE SET TO AUTO.
 COOLING MODE: UPON A TEMPERATURE RISE, DX COOLING SHALL START OPERATE ON ITS OWN CONTROLS TO SATISFY THERMOSTAT/SENSORS.
 HEATING MODE: UPON A TEMPERATURE DROP PAST HEATING SETPOINT, FURNACE SHALL OPERATE ON ITS OWN CONTROLS TO SATISFY THERMOSTAT/SENSORS.



2. FIRE DAMPER AT WALL PENETRATION. PROVIDE DUCT ACCESS PANEL IN DUCTWORK AS REQUIRED.

5. PIPE REFRIGERANT PIPING BEST ROUTE TO COOLING COILS AS REQUIRED.

7. MANUAL VOLUME DAMPER AND 2 POSITION MOTORIZED DAMPER TO OPEN WHEN FAN IS ON AND CLOSE WHEN FAN IS OFF.

9. TEMPERATURE SENSOR, CONNECTED TO MAIN THERMOSTAT; TYPICAL.

springpoint 213 SOUTH ROGERS STREET, SUITE 5 BLOOMINGTON, INDIANA 47404 812.318.2930 www.springpointarchitects.com Williom No. 17006 STATE OF MDIANA YONAL E project title Ζ **BLOOMINGTON**, LIVING BLOOMINGTON COOPERATIVE KIRKWOOD AVE 410 W. project information PROJECT NUMBER: 22100 ISSUE DATE: 09/23/2022 REVISION DATE

sheet title

CBU DETAIL RPZ

PLAN CHANGES

FLOOR PLAN - MECHANICAL

11/07/2022

12/19/2022

sheet number

M200

GENERAL NOTES SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED. 2. 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 MANUFACTURERS PLUMBING FIXTURE SCHEDULE AUCET / VALVE INSTRUCTIONS. MARK FIXTURE MANUFACTURER MODEL No. TYPE MATERIAL STYLE COLOR MANUFACTURER MODEL SPOUT HANDLESCENTER SUPPLY STOPS 3. COORDINATE LOCATION OF PLUMBING SYSTEMS TO AVOID INTERFERENCE WITH LOCATION OF STRUCTURE AND OTHER BULLDING SYSTEMS. NOTIFY OWNER PRIOR TO CONSTRUCTION OF CONFLICTS, WHICH CANNOT BE RESOLVED. WATER FLOOR MOUNTED CLOSET ADA тото ST446CEMFGN TWO-PIEC VITREOUS ------------MCGUIRE CHINA 4. ALL WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST OUALITY IN ALL WORKMANNER AND WATLENDES SHALL BE OF THE INFILE OF WATER AND THE AND A STATEMENT OF A STATEM FLOOR VITREOUS P-2 BIDET тото BT500B ONE-PIECE KOHLER K-73077-4 MCGUIRE MOUNTED CHINA KSS-PURIST--RTH5 P-5 SHOWER OASIS SHFW-3837/3SF ONE-PIEC GEL-CENT ----KOHLER ----5. OBTAIN ALL EQUIPMENT OF THE SAME TYPE FROM THE SAME MANUFACTURER. FIBER CLASS 6. WATER QUALITY TESTING IS REQUIRED. P-8 MOP SINK FIAT FLOOR MOUNT MOLDED STONE AMERICAN STANDARD -------MSB2424 8344.212

PROFLO

SIOUX CHIEF

OASIS

FIAT

SIOUX CHIEF

WOODFORD

1. INSTALL ADA PLUMBING FIXTURES PER ANSI 117.1 GUIDELINES. 2. TRAPS, SUPPLIES, ETC TO BE CHROME. 3. PROVIDE ADA OFFSET GRID STRAINER AND PADDED SUPPLIES AND DRAIN. 4. SANTLARY WASTE LINE SIZE AS INDICATED ON PLANS. 5. PROVIDE 0.5 AERATOR ON FAUCET.

1-HOLE

DROP IN

RECESSED

ALCOVE

STANDIN

FREE

S.S

PLASTIC

ACRYLIC

ABS

PESR 332274

696-2303CF

TSFW-6030XAI

FL-1

696-G1010XF

MODEL 65

LAVATORY TRIM ADA

S.S SINK

WASHER BOX

TUB & SHOWER

LAUNDRY

WALL HYDRANT

P-10 WATER/ICE BOX

P-3

P-9

P-6

P.7

P-11

NOTE:

- DISRUPTIONS TO EXISTING SERVICES MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER AND THE OWNER NO LESS THAN 10 BUSINESS DAYS IN ADVANCE. 8. INSTALL DIELECTRIC FITTINGS AS REQUIRED
- 9. SEE OTHER SECTIONS FOR DETAILS ON EXCAVATION REQUIREMENTS.
- 10. DRAWINGS ARE ONLY SCHEMATIC AND DIAGRAMTIC IN NATURE. INSTALL PIPING AS GENERALLY INDICATED.
- 11. INSTALL VALVES AT ALL LOW POINT IN SYSTEM.
- 12. INSTALL AIR RELIEF VALVES AT ALL HIGH POINTS IN THE SYSTEM.
- 13. PROVIDE O&M MANUALS FOR ALL EQUIPMENT.
- 14. MINIMUM DESIGN WORKING PRESSURE SHALL BE 125 PSIG FOR ALL SUPPLY PIPING.
- 15. PROTECT ALL EQUIPMENT AND MATERIALS DURING WHILE IN STORAGE AND DURING CONSTRUCTION, REPLACE ANY DAMMAGED ITEMS. DO NOT ATTEMPT TO REPAIR.
- 16. INSTALL FORCE MAINS AT ELEVATIONS INDICATED.

17. PROVIDE FINAL CONNECTIONS TO EQUIPMENT WITH SHUT-OFF VALVES, BALANCE REGULTORS, UNIONS, ETC. AS SPECIFICED AND AS REQUIRED BY OUTPENT 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	1
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	1
INCLUDED ALL COSTS FOR THIS PROJECT.	

у накудау чиски англикански на екститски

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DELTA

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6. PROVIDED AND INSTALLED UNDER TENANT PROVIDED PLANS. 7. FIXTURE TO HAVE MIXING VALVE MIX-1.

DOUBLE

BOWL

FREEZE PROOF

533LF-MPU

16953-DST

PURKT K-T14421-4

KPF-1610

ARC LEVER

ADC

ARC

LEVER

LEVER

8"

SS (N)	SYSTEM FLUID TEMP. RANGE (*F) INSULATION TYPE JACKET TYPE VAPOR BARRIER REQ'D RUNOUTS (NOTE 1& 2	(SEE NOTE 4) 40 & BELOW MF OR FE FP	WATER & RETURN 100-300 MF OR FE FP	WATER 40-75 MF OR FE	WATER (NOTE 3& 5) 40-75	DRAIN 40-55					
	INSULATION TYPE JACKET TYPE VAPOR BARRIER REQ'D	MF OR FE FP	MF OR FE		+0=75						
	JACKET TYPE VAPOR BARRIER REQ'D	FP		MFORFE	MF OR FE	MF OR FE					
	VAPOR BARRIER REQ'D			FP	FP FP	FP FP					
				-	-	-					
ESS (IN)	RUNOUTS (NOTE 1& 2										
ESS		1.0	0.5	-	-	-					
ושב	1" & LESS	1.0	0.5	0.5	-	0.5					
2 S S	1.25" TO 2"	1.5	0.5	0.5	1.0	0.5 0.5					
≝∄ [2.5" TO 4"	1.5	1.0		1.0						
Γ	5" & ABOVE	-	-	-	-						
NOTES. 1. INDOOR INSTALLATION - PLANE SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 50 OR LESS. 2. OUTDOOR INSTALLATION - PLANE SPREAD INDEX OF 75 OR LESS AND SMOKE-DEVELOPED INDEX OF 150 OR LESS. 3. MATERIALS MAY NOT CONTIAN ASSESTICTS, LEAD, WEEDLINY COMPONDS. 4. LONGTEDINAL SEAMS INSTALLED AT TOP AND BOTTOM OF HORIZONTAL RUNS. 5. MATERIAL TOMAN ASSESTICTS, LEAD, WEEDLINY COMPONDS. 6. INSTALLATION - RANGE AND TOTO STOTAM OF HORIZONTAL RUNS. 6. INSTALLATION HAVING OF STOTAM OF HORIZONTAL RUNS. 7. ANDID COMPRESSING INSULATION TO 75% OR LORGE OF ITS NOMINAL THICKNESS. 8. REPLANL DANAGED PROJUCT AS INCESSARY. 9. RUNOUTS HOT EXCEEDING 12 FEET IN LENGTH MOD 2" PPE TO INDIVIDUAL HAVIG TERMINAL UNITS. 10. RUNDUTS HAT RER TO LARGER THAN "AND NOV-CIRCULATING TO INVIDUAL PLANEINED UNITS. 11. RUNDUTS HAT RER TO LARGER THAN "AND NOVE PRO TO INDIVIDUAL PLANE TO MOVED. 12. RUNDUTS HAT RER TO LARGER THAN "AND NOVE PRO TO READING LOWING LINTS. 13. INSTALL JANKING TO DIARDER THAN UNDER THAN DOOT OF DIARDOY. 14. INDIALDELLING TO RUNDUE AND TO TO READING LOWING LINTS. 15. INDIALL JANCH TO MARKER RULE DIARDEN HAVING TO RUNDUAL HAVING TO RUNDUAL HAVING LINTS. 16. RUNDUTS HAT RER RULE DIARDEN DEDITION OF DIARDOY. 17. INDIALL JANCH TO MARKER RULE DIARDEN DEDITION OF DEDITION CORANIN DEDITION OF DIARDOY.											

Ξ	PLUMBING EQUIPMENT SCHEDULE												
	MARK MANUFACTURER MODEL		DESCRIPTION	ELECT HP	RICAL V/PH	NOTES							
	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						

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	REALE AF LEAR FEAR	R187 - 5-187 1-9 87 215-
		REPAILED STREET
	5-11-25 x 5	

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

DRAIN I TYPE/MFR/MODELTRAP SIZE

1-1/2"

1-1/2

1-1/2"

1-1/2"

1-1/2"

1/2"

1/2"

3/4"

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DELTA RP26533

PROFLO

PF1431BRSS

PROFLO PF1431BRSS

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CS400A0

BRAS

CRAFT

CS400AC

DOMESTIC DOMESTIC SANITARY CW HW WASTE VENT

3"

3"

2"

2"

2"

2"

2"

2"

2"

2"

2"

1-1/2"

1-1/2"

1-1/2"

1-1/2"

1-1/2"

1-1/2"

1-1/2"

TANKLESS GAS WATER HEATER SCHEDULE													
TAG	MBH MIN.	INPUT MAX	THERMAL	FLOW RATE GPM	TEMP. RISE	WEIGHT LBS	HEIGHT INCHES	WIDTH INCHES	DEPTH INCHES	ELECT VOLTAGE	RICAL AMPS	MANUFACTURER/MODEL	NOTES
WH-1 13.3 199.0 95% 5.2 75F 74 27.4 17.3" 13.2 120/1ø 4.0 NAVIEN NPE-240A2								NAVIEN NPE-240A2	ALL				
WH-2	13.3	199.0	95%	5.2	75F	74	27.4	17.3"	13.2	120/1ø	4.0	NAVIEN NPE-240A2	ALL
WH-3	13.3	199.0	95%	5.2	75F	74	27.4	17.3"	13.2	120/1ø	4.0	NAVIEN NPE-240A2	ALL
NOTES: 1. Pipe T&P valve and condensate to FLOOR DRAIN. 2. With concentric vent kit through roof, LOW WATER CUT-OFF, INTERNAL CIRCULATOR & BUFFER TANK, AND NEUTRALIZATION TANK. 3. Provide intelligent cascading kit SCHED15													

REMARKS	NOTES
WITH SIDE SKIRTS; PROVIDE WITH ELONGATED WHITE SEAT LIKE TOTO SS114 SOFT CLOSE.	1,2
WITH POP-UP DRAIN, FLUSHING RIM AND VERTICAL SPRAY	1,2
SHOWER FAUCET PACKAGE WITH HEADS, DIVERTER, HANDLES, HAND SHOWER, HOSE, SHOWER ARM, SLIDE BAR AND VALVE TRIM	1,2
342410 MOP SERVICE BASIN. MOLDED HIGH DENSITY COMPOSITE BASIN WITH AND INTEGRALLY MOLDED, SEIT-DRAINING MOP SHELF, YOU DRAIN BODY, S.S. DOME STRAINERLINT BASKET, AND 3' GASKETED OUTLET CONNECTION LIKE ZURN ZU98-24 WITH STAINLESS STEEL UNRER GUARD, HOSE AND HOSE BRACKET, MOP HANGER, AND STAINLESS STEEL WALL GUARDS, TOP OF WALL GUARDS SHALL ES 2'' ABOVE WITH STAINLESS STEEL WALL GUARDS, TOP OF WALL GUARDS SHALL ES 2'' ABOVE TOP LIP OF BASIN. WITH (HROME-PLATED SERVICE FAUCER COMPLETE WITH VACUUM BREAKER, INTEGRAL STOPS, ADUUSTABLE WALL BRACK PAIL HOSE, FOUR-ARM HOT AND COLD HANDLES AND 3'M HOSE THREAD ON SYSTEP WITER INLETS ARE FOR 1/2' PIPE AND ARE ECCENTRIC ON AN 8' CENTERLINE.	2,4
WITH METAL POP-UP	1,2,5
	1,4
WITH WATER HAMMER ARRESTOR AND 1/4 TURN BALL VALVES	2,4
	1,2
DRILL TOP FOR SINGLE HOLE	2
WITH VALVE AND ARRESTOR	

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									

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project title

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project information

PROJECT NUMBER: ISSUE DATE: REVISION DATE CBU DETAIL RPZ PLAN CHANGES

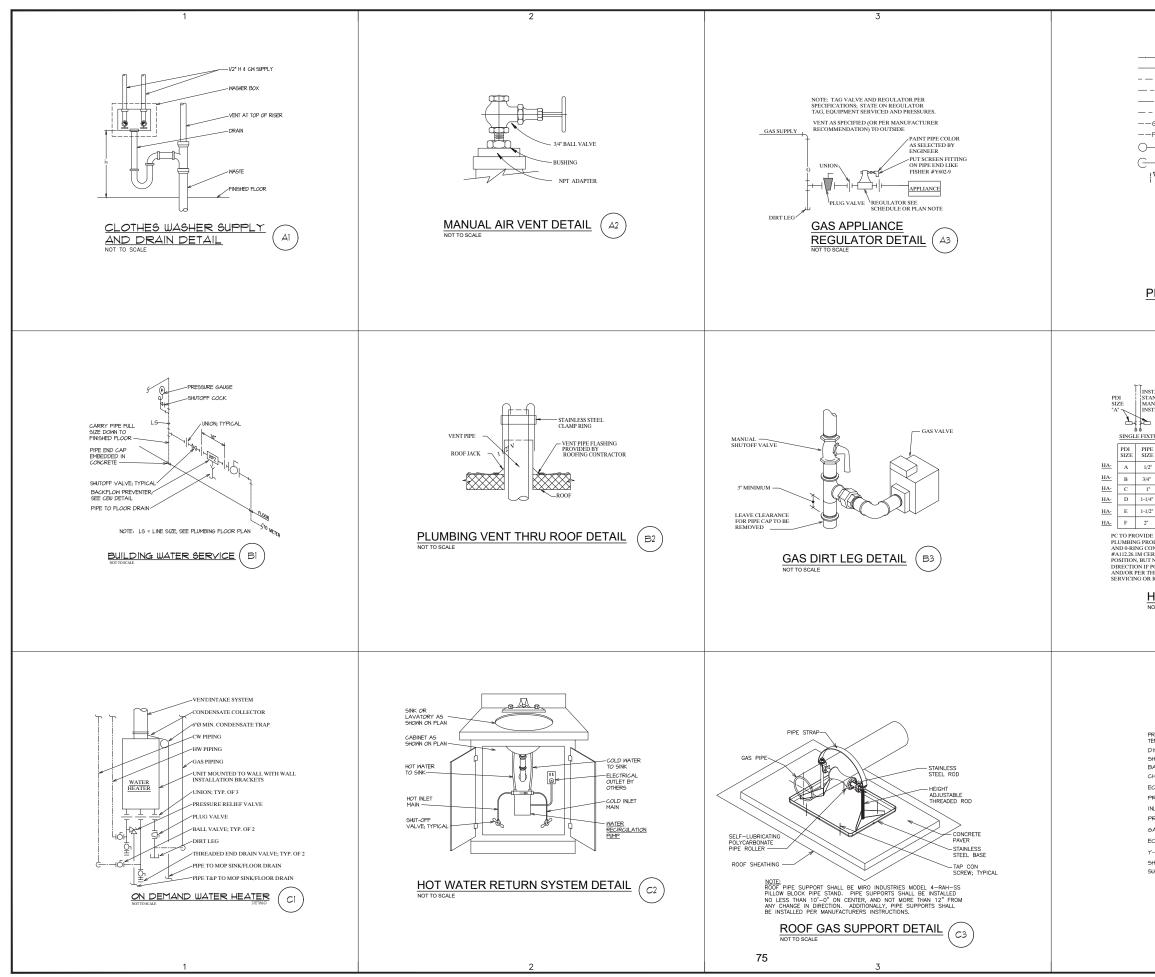
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12/19/2022

sheet title

PLUMBING SCHEDULES

sheet number



			springp	
	WASTE PIPING (SCHD 40 PVC) STORM PIPING (SCHD 40 PVC) VENT PIPING (SCHD 40 PVC) DOMESTIC CW PIPING (PEX)		213 SOUTH ROGERS 5 BLOOMINGTON, INDI 812.318.2930 www.springpointarch	IANA 47404
	DOMESTIC HW PIPING (PEX) DOMESTIC HWR PIPING (PEX) GAS PIPING (BLACK STEEL) FIRE (SPRINKLER) PIPING PIPE UP PIPE UP		DESIGNAIRE ENGIN TIT Ran Road Voice: 317-464-6990	Indianapolis, In 46241 fax: 317-464-9393 ring.com
	SHUT OFF VALVE BALL VALVE CHECK VALVE FLOOR DRAIN	A	Mechanical, El Energy Engi	ectrical, & neering
	3-WAY VALVE (MIXING VALVE) HOSE BIBB BACK FLOW PREVENTER UNION BOLS LEGEND	4)	certified	mogu
			project title	OF HIM
INSTALL FER PDI STANDARDS AND MANUFACTURERS IF BRAN STANDARDS AND MANUFACTURERS IF BRAN INSTRUCTIONS IF BRAN FINTURE IF BRAN FINTURE IF BRAN INTALADS AND IF BRAN INTURE IF BRAN INTURE IF BRAN INTI LOAD IF 33-60 I'A 33-60 IKAN I'A 13-60 IKAN I'A 14-154 INTI SOR 2' 154-330 INTI SOR ARREST SHOW TIDE WATER HAMMER ARREST PRODUCTS, WATS OR APPROX INTI OR ICENTIFICATION, INSTALL, INT SOR APPROX INTI OR	TORY,SINK 1.5 1.5 TOR'S SINK 3 3 VER,BATHTUB 2 2 ERS BY SIOUX CHIEF, PRECISION TED EQUIVALENT WITH PHSTON WH: 201,ASSE 4100 AND ANSI IORIZOVTAL OR VERTICAL TALL IN LINE WITH WATER FLOW AS SHOWN ON THE DRAWINGS PROVIDE ACCESS PAREL FOR QUIRED.	7 В	BLOOMINGTON COOPERATIVE LIVING	410 W. KIRKWOOD AVE BLOOMINGTON, IN
PRESSURE/ TEMPERATURE PLUG	Å		project information PROJECT NUMBER: ISSUE DATE:	22100 09/23/2022
DISCHARGE SHUT-OFF VALVE BALANCING VALVE CHECK VALVE ECCENTRIC REDUCER			REVISION DATE: CBU DETAIL RPZ PLAN CHANGES	11/07/2022 12/19/2022
PRESSURE GAUGE INLINE PUMP PRESSURE GAUGE GAUGE COCK ECCENTRIC REDUCER Y-STRAINER SHUT-OFF VALVE		с	sheet title PLUMBING	DETAILS
INLINE PUM PIPING DET. NOT TO SCALE			POC)2

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

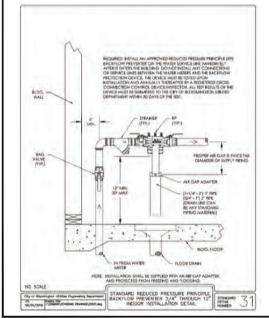
1.11 HANGER AND SUPPORT INSTALLATION

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 OUALITY 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.
- 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 DE DEFAUED. 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 OD'S 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
- SHIELDED, NONPRESSURE TRANSITION COUPLINGS SHALL BE ELASTOMERIC OR RUBBER SLEEVE WITH FULL-LENGTH, CORROSION-RESISTANT OUTRE SHIELD AND CORROSION-RESISTANT-METAL TENSION BAND AND TIGHTENING MECHANISM ON EACH FUND.
- 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 OD'S, 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 NONCORROSIVE ENVIRONMENTS

- B. INSTALL FIBERGLASS PIPE HANGERS FOR HORIZONTAL PIPING IN CORROSIVE ENVIRONMENT
- 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 CONNECTION
- 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

1.9 CLEANING AND PROTECTION

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

HANGER SPACING

	3/4"	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10-12	VERTICAL SPACING
COPPER TUBING	5' (3/8" ROD)	6' (3/8" ROD)	6' (3/8" ROD)	8' (3/8" ROD)	8' (3/8" ROD)	9' (1/2" ROD)	10' (1/2" ROD)	10' (1/2" ROD)	10' (5/8" ROD)	10' (3/4" ROD)		SUPPORT VERTICAL PIPE EVERY 10'
STEEL PIPING	7' (3/8" ROD)	7' (3/8" ROD)	7" (3/8" ROD)	9' (3/8" ROD)	10' (3/8" ROD)	11' (3/8" ROD)	12' (1/2" ROD)	12' (5/8" ROD)	12' (3/4" ROD)	12' (7/8" ROD)		SUPPORT VERTICAL PIPE EVERY 15'
PEX	32" (3/8" ROD)							SUPPORT VERTICAL PIPE EVERY 48"				
CAST IRON DRAINAGE PIPING				5' (3/8" ROD)	5' (3/8" ROD)		5' (1/2" ROD)	5' (5/8" ROD)	5' (3/4" ROD)	5' (3/4" ROD)	5' (7/8" ROD)	SUPPORT VERICAL PIPE EVERY 15'
PVC DRAINAGE PIPING				4' (3/8" ROD)	4' (3/8" ROD)		4' (1/2" ROD)	4' (5/8" ROD)	4' (3/4" ROD)	4' (3/4" ROD)	4' (7/8" ROD)	SUPPORT VERICAL PIPE EVERY 4'
CORRUGATED STAINLESS STEEL TUBING	7' (3/8" ROD)											
L. SUPPORT ALL OTHER PIPING AND TUBING PER MSS SP-69												

PLUMBING IDENTIFICATION

1.1 EQUIPMENT LABELS

A. METAL LABELS FOR EQUIPMENT SHALL BE A MINIMUM OF 2.5"X 0.75"X 0.02" THICK STAINLESS STEEL WITH PREDRILLED OR STAMPED HOLES FOR ATTACHMENT AND STAINLESS STEEL RIVETS OR SELF-TAPPING SCREWS. LETTER STUDIOS GHALL BE A MINIMUM OF QU'S TALL AT A MINIMUM THE LABLE SHALL INCLUDE THE UNQUE EQUIPMENT NUMBER DESIGNATION AS SHOWN ON THE DRAWINGS OR SPECIFICATIONS. PROVIDE AN EQUIPMENT CONTROL OF MULT ADDRESS. SCHEDULE FOR THE OWNER.

1.2 WARNING SIGNS AND LABELS

A. WARNING SIGNS AND LABELS SHALL BE MULTILAYERED, MULTICOLORED, PLASTIC LABELS FOR MECHANICAL ENGRAVING, 10° THICK, AND HAVE PREDRILLED HOLES FOR ATTACHMENT HARDWARE. LETTERING SHALL BE RED WITH A WHITE BACKGROUND. THE MINIMUM SIZE SHALL BE 27 X 0.75° WHITE TERING A INMINUM 0.5° TALL FASTENERS STALL 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, 0.02° THICK WITH PREDRILLED OR STAMPED HOLES FOR BRASS WIRE-LINK, BEADED CHAIN OR SHOOK AND STAMPED OR ENGRAVED WITH 0.2° LETTERS FOR PIPING SYSTEM ABBREVIATION AND 0.5° NUMBERS. VALVE TAGS SHALL BE 2° ROUND WITH BLACK LETTERING ROVIDE A VALVE SCHEDUE FOR

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:

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- 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 ATTACH WARNING TAGS TO, EQUIPMENT AND OTHER ITEMS REQUIRED BY OWNER.

PIPING INSULATION 1.1 INSULATION MATERIALS

1.2 INSULATING CEMENTS

1.4 SEALANTS

1.7 TAPES

1.5 FACTORY-APPLIED JACKETS

1.6 FIELD-APPLIED JACKETS

LBF/INCH IN WIDTH.

TO THERMAL MOVEMENT.

1.11 FIELD-APPLIED JACKET INSTALLATION

1.8 SECUREMENTS

1.9 INSTALLATION

1.10 PENETRATIONS

1.12 FINISHES

1.13 FIELD QUALITY CONTROL

A. FLEXIBLE ELASTOMERIC INSULATION B. MINERAL-FIBER BLANKET INSULATION:

A. MINERAL-FIBER INSULATING CEMENT

C. MINERAL-FIBER, PREFORMED PIPE INSULATION:

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

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. ASJ 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

A. ASJ 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.

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

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

A. ASJ 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 40LBF/INCH 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 IVE AND SUITABLE FOR INDOOR AND OUTDOOR APPLICATIONS; 6 MILS THICK WITH A TENSILE STRENGTH OF 18

A 304 STAINLESS STEEL BANDS 0.015". 5" 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.

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

G. REPAR 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.

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 ADOVE ROOF SUFFACE. 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.

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 (\$9-MM) OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS. OVERLAP LONGITUDINAL SEAMS ARRANGED TO SHED WATER. SEAL END JOINTS WITH WEATHERPROOF SEALAIT RECOMMENDED BY INSULATION MANUFACTURER. SECURE JACKET WITH STAINLESS-STEEL BANDS 12 INCHES (300 MM) O.C. AND AT END JOINTS.

A. INSULATION WITH ASJ SHALL HAVE TWO FINISH COATS OF FLAT ACRYLIC OVER A PRIMER THAT HAS A FUNGICIDAL

B. FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION APPLY TWO COATS OF MANUFACTURER'S RECOMME PROTECTIVE COATING AFTER THE ADHESIVE HAS FULLY CURE. C. DO NOT FIELD PAINT ALUMINUM OR STAINLESS-STEEL JACKETS

D. PERFORM TESTS AND INSPECTIONS. REPAIR ANY INSULATION THAT FAIL:

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project information

PROJECT NUMBER: ISSUE DATE: REVISION DATE CBU DETAIL RPZ PLAN CHANGES

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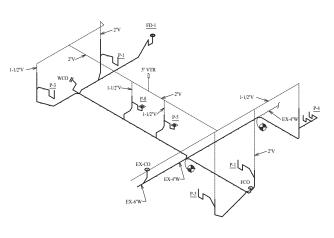
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PLUMBING DETAILS

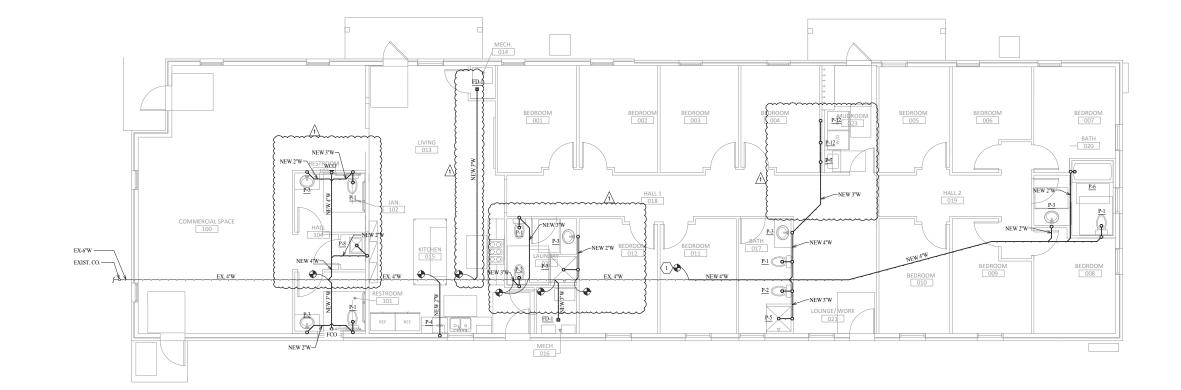
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WASTE ISOMETRIC NO SCALE

FIELD VERIFY:

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 ASBULLT DRAWINGS WERE NOT AVAILABLE, CERTAIN INFORMATION CONCERNING THE LOCATION OF THE EXISTING CONDITIONS HAS BEEN ASSUMED IN THIS DRAWING. THE EXISTING CONDITIONS HAS BEEN ASSUMED IN THIS DRAWING. THE EXISTING CONDITIONS HAS BEEN ASSUMED IN THIS DRAWING. THE EXIST 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 DITERMINE 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.





 $\langle \# \rangle$ PLAN NOTES:

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.

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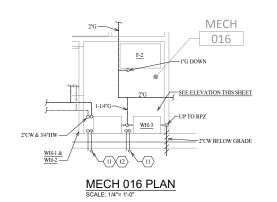
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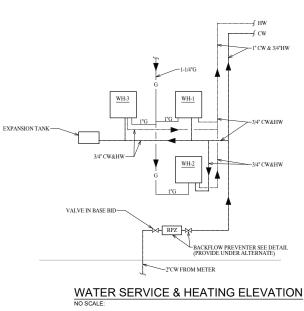
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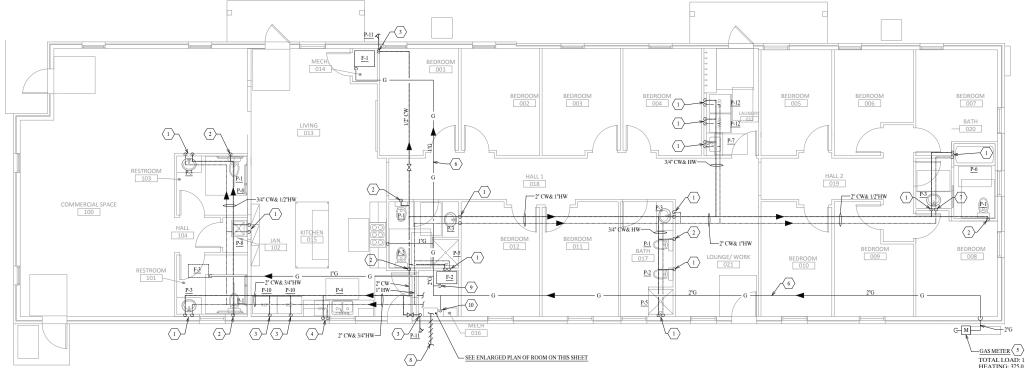
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WASTE PLAN

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$\langle \# \rangle$ PLAN NOTES:

- 1. 1/2"CW & HW DOWN TO FIXTURE.
- 2. 1/2"CW DOWN TO FIXTURE.
- 3. 1/2"CW DOWN TO FIXTURE.
- 4. 1/2°CW & HW DOWN IN WALL, PIPE OVER TO KITCHEN SINK AND DISH WASHER AS REQUIRED.
- 5. REMOVE 3 GAS METERS PER UTILITY REQUIREMENTS AND ASSOCIATED PIPING. MODIFY 1 METER FOR BUILDING USE AND RE-PIPE AS SHOWN.
- 6. GAS PIPING UP IN ATTIC.
- 7. HOT WATER RETURN PUMP LOCATED IN CABINET BELOW SINK. SEE DETAIL.
- 8. 2"CW BELOW GRADE. SEE CIVIL DRAWINGS.
- 9. 1" GAS DOWN.
- 10. 1-1/4" GAS DOWN.
- 11. 3" DIA. INTAKE AND FLUE; CONCENTRIC VENT KIT, EITHER SIDEWALL OR THROUGH ROOF AS REQUIRED.
- 12. TWO SETS OF INTAKE AND FLUE VENTS.

TOTAL LOAD: 1,072.0 MBH @6-1/2" IN.C. HEATING: 375.0 MBH KITCHEN: 100.0 MBH WATER HEATING: 597.0 MBH

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project information

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22100 09/23/2022

11/07/2022 12/19/2022

sheet title

PIPING PLAN

sheet number

	POWER		LIGHTS			SWITCHES	APPL	ICABLE CODES AND STANDARDS	GENE
0	DUPLEX RECEPTACLE	0	SURFACE MOUNTED OR RECESSED LED FIXTURE		\$	SWITCH, SINGLE POLE		144SAFETY COLOR CODE FOR MARKING PHYSICAL HAZARDS.	1. INSTALI
۲	RECEPTACLE SPECIAL, NEMA CONFIGURATION	ю	WALL MOUNTED LED FIXTURE		\$3	SWITCH, THREE-WAY		L4SSPECIFICATIONS FOR ACCIDENT PREVENTION SIGNS AND TAGS. SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS	INSTALL
۲	FLUSH FLOOR OUTLET		SURFACE/RECESSED 1 x 4 LED LIGHT FIXTURE		\$4	SWITCH, FOUR-WAY		ELECTRIC RIGID STEEL CONDUIT	 SUBMIT COORIE
	FLOSH FLOOK OUTLET		SURFACE/RECESSED 1 x 4 LED LIGHT FIXTURE				ANSI C80.3	ELECTRICAL METALLIC TUBING - STEEL (EMT-S)	4. SLOPED
⊽₽▼	FLUSH FLOOR BOX, THREE GANG		SURFACE/RECESSED 2 x 4 LED LIGHT FIXTURE		\$ _D	SWITCH, DIMMER		ELECTRICAL RIGID METAL CONDUIT - ALUMINUM (ERMC-A) ELECTRICAL INTERMEDIATE METAL CONDUIT	 SLOPEL INSTALI
BAT	EMERGENCY BATTERY UNIT	۲	PHOTOCELL		\$ds	SWITCH, DOOR SECURITY		PRODUCT SAFETY PACKAGE	6. HEIGHT
Φ	RECEPTACLE, SINGLE	\otimes	EXIT LIGHT FIXTURE CEILING MOUNTED		\$ĸ	SWITCH, KEYED		SAFETY TAGS AND BARRICADE TAPES (FOR TEMPORARY HAZARDS)	 HEIGHT 8. IF MOL
Φ	RECEPTACLE, DUPLEX	⊢⊗			\$p	SWITCH, PILOT LIGHT	ANSI 2535.4 ASTM A 36/ A		9. INSTAL
×	RECEITACLE, DUFLEA		EXIT LIGHT FIXTURE WALL MOUNTED				ASTM A 53/ A	53M STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED, WELDED AND SEAMLESS	a.
Ψ	RECEPTACLE CEILING MOUNTED, DUPLEX		LIGHT FIXTURE CONNECTED TO EMERGENCY POW	ER	\$a	SWITCH, CONTROLLING FIXTURES MARKED WITH a	ASTM A 641/		b.
\$	RECEPTACLE, QUADPLEX	4 20	BATTERY OPERATED EMERGENCY LIGHT - WALL M	IOUNTED	भ	SWITCH, MANUAL TIMER	ASTM A780	STEEL WIRE STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED	
€®	RECEPTACLE, DUPLEX WEATHERPROOF ('WHILE-IN-USE' TYPE)	-	POLE MOUNTED LIGHT FIXTURE - SINGLE HEAD		\$ _{TT}	TT SWITCH FOR MOTORS 1/2HP OR SMALLER	ASTM B3	COATINGS STANDARD SPECIFICATION FOR SOFT OR ANNEALED COPPER WIRE	c. d.
Φ^{E}	RECEPTACLE ON EMERGENCY CIRCUIT, RECEPTACLE AND PLATE SHALL BE RED	¤	SURFACE / RECESSED LED FIXTURE		٠	PUSH BUTTON CONTROL STATION	ASTM B8	CONCENTRIC-LAY-STRANDED COPPER CONDUCTORS, HARD, MEDIUM-HARD, OR SOFT	e.
Øĩ∟	RECEPTACLE, DUPLEX, EMERGENCY RED TWIST LOCK	ŀΆ	WALL MOUNTED LED FIXTURE		••	PUSH BUTTON "UP-DOWN-DN"	ASTM B33	TIN-COATED SOFT OR ANNEALED COPPER WIRE FOR ELECTRICAL PURPOSES	f.
		-54	WALL MOONTED EED TIATORE				ASTM C 1107 AWS D1.1/ D	GROUT 1.1M STRUCTURAL WELDING CODESTEEL	g.
Φ^{GFI}	RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER	0	BOLLARD LIGHT FIXTURE		\square	PANIC BUTTON		STANDARD TEST METHOD FOR TENSILE PROPERTIES OF PLASTICS	9. IF REQU PLASTIC
$\boldsymbol{\varphi}^{\text{USB}}$	USB RECEPTACLE	Ø	FLOOD LIGHT GROUND MOUNTED		D.	MOTION DETECTOR	ASTM D 882	STANDARD TEST METHOD FOR TENSILE PROPERTIES OF THIN PLASTIC SHEETING	10. GROUT 11. EXTEND
٠	DOORBELL PUSH BUTTON		WIRE		, E	SECURITY GLASS BREAK DETECTOR	IEEE C2 IEEE 344	2017 NATIONAL ELECTRICAL SAFETY CODE(R) (NESC(R)) SEISMIC QUALIFICATION OF SAFETY RELATED EQUIPMENT FOR CLASS 1E EQUIPMENT	12. MAINT
	DOOR BELL CHIME	\frown	HOMERUN		GB	SECURITY GLASS BREAK DETECTOR	MFMA-4	METAL FRAMING STANDARDS PUBLICATION	13. SEAL PI
_					ø	SINGLE CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWS1277UX(COLOR).	NECA 1 NECA 101	STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION PDF STANDARD FOR INSTALLING STEEL CONDUITS (RIGID, IMC, EMT)	
TLV	TRANSFORMER, 120V TO LOW VOLTAGE		WIRING CONCEALED IN CEILING OR WALL		\bigcirc^2	DUAL CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWD1277UX(COLOR).	NECA 101	STANDARD FOR INSTALLING STELL CONDUCTS (INGID, INC, ENT) STANDARD FOR INSTALLING AND MAINTAINING PANELBOARDS	
s	SECURITY ALARM POINT DOOR SWITCH		WIRING CONCEALED UNDER OR IN FLOOR		0		NEMA AB 1 M	VOLDED-CASE CIRCUIT BREAKERS, MOLDED CASE SWITCHES, AND CIRCUIT-BREAKER ENCLOSURES	
s	SECURITY DOOR LOCK RELEASE - ELECTRIC STRIKE		WIRING EMERGENCY		ø	LOW VOLTAGE ULTRASONIC CEILING SENSOR 'SCHNEIDER ELECTRIC' #SLSCUS2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSPP1277 (POWER PACK)	NEMA ICS 2	INDUSTRIAL CONTROL AND SYSTEMS CONTROLLERS, CONTACTORS AND OVERLOAD RELAYS RATED 600 VOLTS	
5	SECURITY MOTION DETECTOR	A. C	A= GROUND; B= NEUTRAL; C= HOT		_	LOW VOLTAGE CEILING MOUNT PIR OCCUPANCY SENSOR	NEMA ICC C	CONTROL CIRCUIT AND PILOT DEVICES	
, 	SECURITY ALARM BELL	T'	WIRING TURNED UP		© ^ı	SCHNEIDER ELECTRIC #SLSCI2000 (SENSOR); SCHNEIDER ELECTRIC #SLSPP1277 (POWER PACK).	NEMA ICS 6	ENCLOSURES HEAVY DUTY ENCLOSED AND DEAD-FRONT SWITCHES (600 VOLTS MAXIMUM)	
s	SECURITI ALARM BELL				(C) ^{D/T}	LOW VOLTAGE CEILING MOUNT DUAL-TECHNOLOGY OCCUPANCY SENSOR 'SCHNEIDER ELECTRIC #SLSCDT2000 (SENSOR); 'SCHNEIDER ELECTRIC #SLSPP1277 (POWER PACK).	NEMA FB1	CONDUIT FITTINGS	
©	CLOCK OUTLET	•	WIRING TURNED DOWN				NEMA LE 4 NEMA OS 1	RECESSED LUMINAIRES, CEILING COMPATIBILITY SHEET-STEEL OUTLET BOXES, DEVICE BOXES, COVERS AND BOX SUPPORTS	
©c	CLOCK OUTLET WITH CONTROL STATION	استا	WIREMOLD APENDED NOTE DENOTES TYPE		CO	MMUNICATION / SECURITY	NEMA PB 1	PANELBOARDS	
®⊣	TELEVISION OUTLET (RG6)		CABLE TRAY	•		E OUTLET BOX AND COVER PLATE	NEMA RN1	POLYVINYL CHLORIDE (PVC) EXTERNALLY COATED GALVANIZED RIGID STEEL CONDUIT AND INTERMEDIATE METAL CONDUIT	
Ø	JUNCTION BOX 4 11/16 x 4 11/16 x 2 1/8"	—н—	HEAT TRACE CABLE	_			NEMA TC2	ELECTRICAL POLYVINYL CHLORIDE (PVC) CONDUIT	
MDP	UNLESS NOTED OTHERWISE			▼P	TELEPHON	E OUTLET BOX, AND COVER PLATE, PUBLIC	NEMA TC3 NEMA TC13	POLYVINYL CHLORIDE (PVC) FITTINGS FOR USE WITH RIGID PVC CONDUIT AND TUBING ELECTRICAL NONMETALLIC TUBING (ENT)	
	MAIN DISTRIBUTION OR POWER PANELBOARDS	К	CARD KEY ACCESS CONTROL		TELEPHON	E OUTLET FLOOR BOX WITH COVER PLATE		POWER CABLES RATED 2000 VOLTS OR LESS FOR THE DISTRIBUTION OF	
	FLUSH OR SURFACE MOUNTED BRANCH PANELBOARDS 120/280V	-¢-	CEILING MOUNTED FIRE ALARM HORN / STROBE	\mathbf{V}	TELEDATA	OUTLET		ELECTRICAL ENERGY	
\oslash	ELECTRICAL CONNECTION				TELEDATA	OUTLET FLOOR BOX WITH COVER PLATE		GENERAL COLOR REQUIREMENTS FOR WIRING DEVICES WIRING DEVICES-DIMENSIONAL SPECIFICATIONS	
ď	DISCONNECT SWITCH		FIRE	~			NETA MTS	STANDARD FOR MAINTENANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER EQUIPMENT AND SYSTEMS	
\boxtimes	MOTOR CONTROLLER WITH AUX CONTACTS HOA, PB, PILOT AND CONTROL TRANSFORMER.	0		\bigtriangledown	DATA OUTI	ET	NFPA 70	NATIONAL ELECTRICAL CODE	
 ® ^A	TELEVISION OUTLET (RG6 AND 2-CAT6)		IONIZATION SMOKE	S	SPEAKER, F	LUSH CEILING MOUNTED	NFPA 70B	RECOMMENDED PRACTICE FOR ELECTRICAL EQUIPMENT MAINTENANCE	
⊠ '	FUSED DISCONNECT SWITCH	Э	THERMAL DETECTOR 135° FIXED	⊦S	SPEAKER, V	VALL MOUNTED	NEMA 250 SSPC-PA1	ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM) FIELD AND MAINTENANCE COATING OF METALS	
Ľľ	POSED DISCONNECT SWITCH	Ø	PHOTO DETECTOR PHOTO ELECTRIC	-©⊄	SPEAKER H	ORN TYPE, WALL MOUNTED	TIA/ ATIS J-ST	D-607-A COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS	
\top	ELECTRICAL TRANSFORMER	F	PULL STATION				UL 50	ENCLOSURES FOR ELECTRICAL EQUIPMENT, NON-ENVIRONMENTAL CONSIDERATIONS	
		<u> </u>	STROBE UNIT 30CD	PA	SOUND SYS	TEM AMPLIFIER	UL 94	STANDARD FOR TESTS FOR FLAMMABILITY OF PLASTIC MATERIALS FOR PARTS IN DEVICES AND APPLIANCES	
\$	NON-FUSED DISCONNECT SWITCH RATING AS NOTED	т л ^р		н©	INTERCOM	M HANDSET	UL 98	ENCLOSED AND DEAD-FRONT SWITCHES	
ιίυ	CIRCUIT POWER TRANSFORMER	\$	FIRE ALARM, IONIZATION DUCT DETECTOR	н©	INTERCOM	M MASTER PANEL	UL 467 UL 486A	GROUNDING AND BONDING EQUIPMENT	
	480V PRIMARY, 120V SECONDARY	© co	COMBINATION PHOTOELECTRIC & CARBON MONOXIDE DETECTOR	'N	Intercom		UL486B	WIRE CONNECTORS	
	CIRCUIT BREAKER	FACP.	FIRE ALARM CONTROL PANEL	ICPS	INTERCOM	M SYSTEM POWER SUPPLY	UL 489	MOLDED-CASE CIRCUIT BREAKERS, MOLDED-CASE SWITCHES, AND CIRCUIT-BREAKER ENCLOSURES	
1	FUSE	FAAP	FIRE ALARM ANNUNICATOR PANEL	\$		WHERE EXISTING TO REMAIN STOPS AND DEMOLITION BEGINS NT WHERE NEW WORK CONNECTS TO EXISTING TO REMAIN	UL 514B	CONDUIT, TUBING, AND CABLE FITTINGS	
÷ Ó	GROUND ELECTRICAL MOTOR CONNECTION - VERIFY HP, AND PHASE		FIRE ALARM, TAMPER SWITCH				UL514C	STANDARD FOR NONMETALLIC OUTLET BOXES, FLUSH-DEVICE BOXES, AND COVERS	
9 ®	ELECTRICAL MOTOR CONNECTION	(1)			CE CURRENT -		UL 886	UL STANDARD FOR SAFETY OUTLET BOXES AND FITTINGS FOR USE IN HAZARDOUS (CLASSIFIED) LOCATIONS	
Ŧ		¢	FIRE ALARM, FLOW SWITCH	ΠN	SECURITY	CAMERA G360°) (360°)	UL 924 UL 943	EMERGENCY LIGHTING AND EXIT SIGN REGULATIONS GROUND-FAULT CIRCUIT-INTERRUPTERS	
		F	HORN STROBE	IR	AUDIO/VIS	UAL WALL DEVICE	UL 943	STANDARD FOR MARKING AND LABELING SYSTEMS	
		s	FIRE ALARM, SPEAKER	u	AUDIO/VIS	UAL WALL DEVICE	UL 1436.	STANDARD FOR OUTLET CIRCUIT TESTERS AND SIMILAR INDICATING DEVICES	
		SA	FIRE ALARM, SPEAKER STROBE			79	UL 1660 UL 1863	LIQUID-TIGHT FLEXIBLE NONMETALLIC CONDUIT STANDARD FOR COMMUNICATIONS-CIRCUIT ACCESSORIES	

NERAL 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.
- COORIDNATE 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:
- a. SLEEVES FOR RACEWAYS AND CABLES SHALL BE SCHEDULE 40 GALVANZIED STEEL PIPE SLEEVES, ASTM AS3/ AS3M TYPE E, GRADE B WITH PLAIN ENDS.
- b. FOR RECTANGULAR OPENSINGS USE GALVANZIED SHEET STEEL WITH A THICKNESS OF 0.052 INCHES FOR OPENINGS SMALLER THAN 50 INCHES IN PERIMETER AND 0.138 INCHES FOR THOSE LARGER.
- c. SLEEVES SHALL BE FLUSH WITH WALLS.
- d. EXTEND FLOOR SLEEVES 2" ABOVE FINISHED FLOOR LEVEL.
- e. IF NECESSARY GROUT SPACE OUTSIDE OF SLEEVE IN CONCRETE AND MASONRY WALLS AND FLOOR.
- f. IN NON RATED FIRE WALLS AND FLOORS SEAL ANNULAR SPACE WITH JOINT SEALANT.
- g. 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.
- GROUT SHALL BE NONMETALIC SHRINK-RESISTANT TYPE THAT IS NONSTAINING AND NON CORROSIVE. 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

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project title

COOPERATIVE LIVING 410 W. KIRKWOOD AVE BLOOMINGTON,

project information

BLOOMINGTON

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

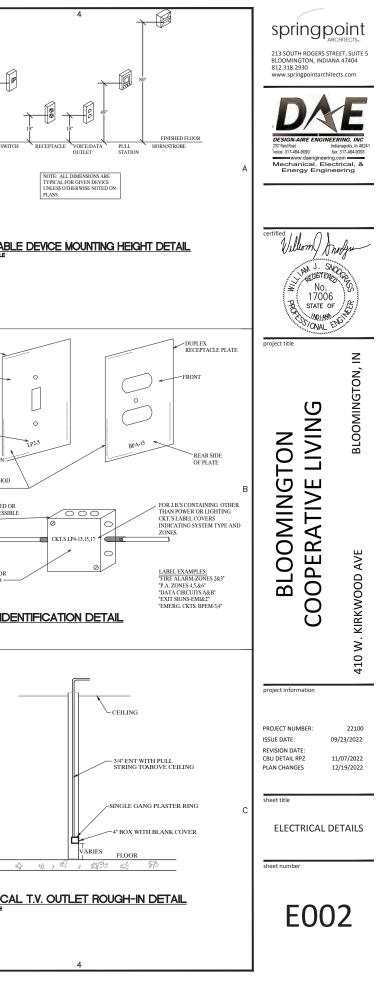
12/19/2022

sheet title

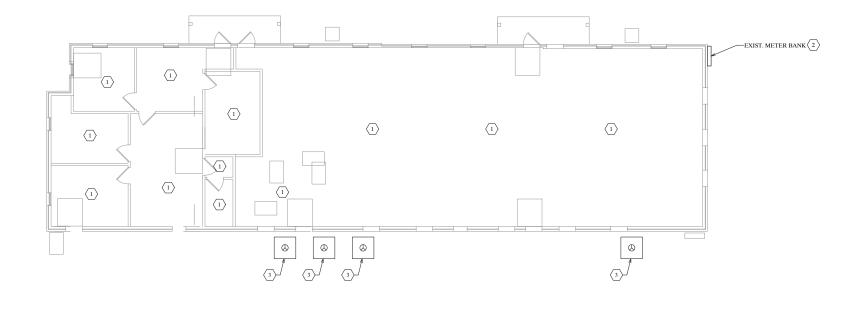
ELECTRICAL ABBREVIATIONS & SYMBOLS

sheet number

	2		1
Image: construction insulation and multiconductor schedule tables Service entrance Image: construction insulation in the image	ANCEL ELOOP SAFETY CADDY CLIPS OR EQUAL BY DOUBLE LOOP SAFETY OUTLET BOX & SUPPORT FURTHER CONDUIT BY EC. MIX. 2PF OUTLET BOX & SUPPORT FURTHER CONDUIT BY EC. MIX. 2PF OUTLET BOX & SUPPORT FURTHER CONDUIT BY EC. MIX. 2PF FUTURE FUTURE FUTURE FUTURE	Tennlight Control AIR KING #AKDTØ	AN AN SWITCH OPERABL NOT TO SOLLE
	SCHEDULE OF CONDUIT APPLICATIONS CONDUIT IOCATION OR APPLICATION OR APPLICATION OR OD N CONDUIT TYPE ONDUIT IOCATION OR OD N INCONCRETE SLAB (NOT LARGER THAN I'C) G BELOW LOWEST FLOOR SLAB 3 3 3 CONCEALED IN WALLS, ABOVE CELINCES AND FOREED STATES 3 1 1 INSIDE, ABOVE BOTTOM OF ROOF STEEL 3 3 3 1	BUILDING STRUCTURE	STANDARD TOGGLE SWITCH PLATE FRONT REAR SIDE OF PLATE REAR SIDE OF FLATE USE PERMANANT MARKER PEN BRADY MARKING SYSTEM OR OTHER METHOD APPROVED BY THE ENGINEER JUNCTION BOXES (EXPOSED OR
	CIRCUTS RUN EXPOSED	Image: Solution of the second seco	CONCEALED ABOVE ACCESSIBLI CELLING)
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	CONDUIT BY EC. STAINLESS STEEL CLAMPS BY E.C. STAINLESS STEEL CLAMPS BY E.C. SUBJECT SUBJ	TYPICA NO SCALE
1	2000 665 560	80 3	



 $\langle \# \rangle$ PLAN NOTES:





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.

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BLOOMINGTON, IN COOPERATIVE LIVING BLOOMINGTON 410 W. KIRKWOOD AVE

project information

PROJECT NUMBER: ISSUE DATE: REVISION DATE: CBU DETAIL RPZ PLAN CHANGES

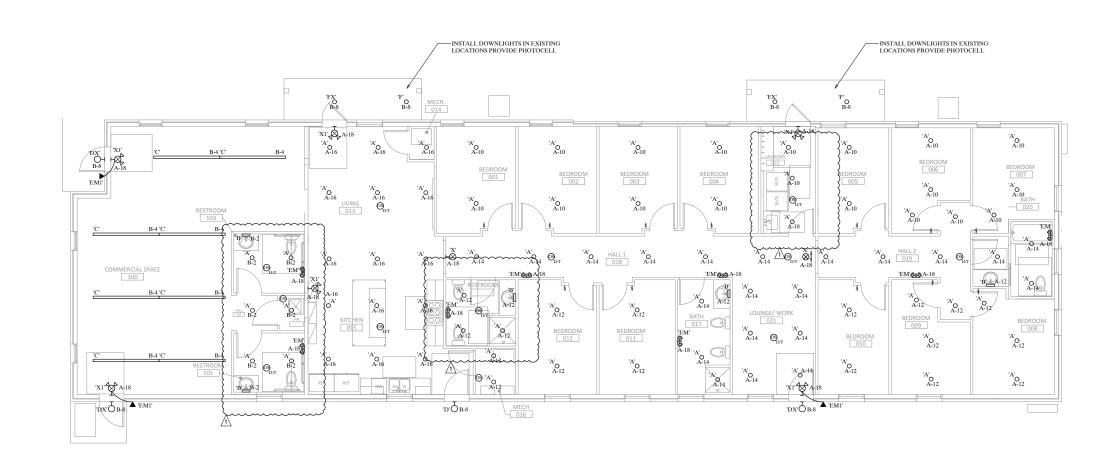
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11/07/2022 12/19/2022

sheet title

DEMOLITION PLAN ELECTRICAL

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ISSUE DATE: REVISION DATE: CBU DETAIL RPZ PLAN CHANGES

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sheet title

LIGHTING PLAN

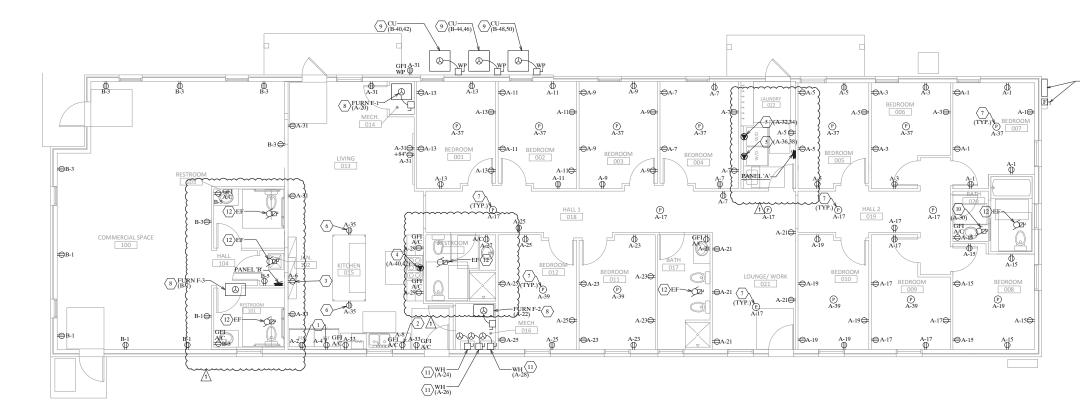
sheet number

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:

- 2. DEDICATED RECEPTACLE FOR MICROWAVE.
- 3. DEDICATED RECEPTACLE FOR DISHWASHER.
- 5. 30A, 208V-1Ø OUTLET FOR COMBO WASHER/DRYER. INSTALL 2-#10, 1-#10 GND IN A 3/4"C.
- 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.
- 10. 20A, 120V-1Ø MOTOR CONNECTION FOR RECIRC PUMP UNDER SINK.
- 11. 20A. 120V-1Ø CONNECTION FOR GAS WATER HEATER.





1. DEDICATED RECEPTACLE FOR REFRIGERATOR.

4. 50A, 208V-1Ø OUTLET FOR ELECTRIC RANGE. INSTALL 2-#8, 1-#8 GND IN A 3/4"C

- 9. 40A, 208V-1Ø CONNECTION FOR CONDENSING UNIT. INSTALL 2-#8, 1-#8 GND IN A 3/4"C.
- 12. 20A, 120V-1Ø MOTOR CONNECTION FOR EXHAUST FAN. CONNECT TO LIGHTING CIRCUIT IN THIS ROOM AND CONTROL WITH LIGHTS.

-NEW 400A METER BASE AND FUSIBLE SWITCH

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project title

BLOOMINGT LIVING BLOOMINGTON COOPERATIVE KIRKWOOD AVE ≷ 410

project information

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22100 09/23/2022 11/07/2022

12/19/2022

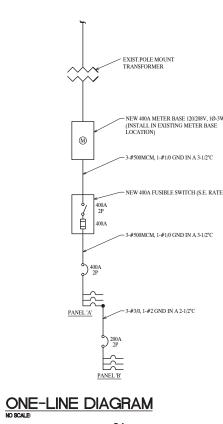
sheet title

POWER PLAN

sheet number

PANEL: 'B'			AM	LTS: IPS: 2 IS: 42		08		PHA	G: RECH	ESSED PROVIDE:	PANEL: 'A'				.TS: 120 PS: 400			I	/TG: RE PHASE: 1 WIRE: 3	CESSED	PROVIDE:					-
LOCATION: HALL				GS: N				WIRE: 3 FEED: BOTTOM/TOP		TOM/TOP	LOCATION: MUD ROOM			LUGS: MCB					FEED: BOTTOM/TOP		P	L.	VPE	MOUNTING	LAMPS	Γ
REMARKS	<l ØA</l 	OAD> ØB	POLE	CIR.		CIR. NO.	POLE	<lo ØA</lo 		REMARKS	REMARKS	<lc ØA</lc 	ØAD> ØB	POLE	CIR. NO.	CI N	IR. O. PO		<load> ØA ØI</load>		REMARKS	Ľ	IIIE	MOONTING	LAMIS	t
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RECEPTS	and the second	1.1	20	3	1	4	20		0.7	LIGHTING	RECEPTS		1.1	20	3	4	4 20		0.:		REFRIG					+
RECEPTS	1.1		20	5	1	6	20	0.5		EXIT/EM LTG	RECEPTS	1.1		20	5		6 20		1.0		DISHWASHER		в	WALL	LED	
FURN F-3	and the second sec	1.0	20	7	1	8	20		0.5	EXTERIOR LTG	RECEPTS		1.1	20	7	8	8 20		1.		MICROWAVE		в	WALL	LED	
SPARE			20	9	1	10	20			SPARE	RECEPTS	1.1		20	9	1	0 20).7		LIGHTING	⊢				+
SPARE			20	11	1	12	20			SPARE	RECEPTS		1.1	20	11	1	2 20		0.1		LIGHTING		c	SUSP	LED	
SPARE			20	13	1	14	20			SPARE	RECEPTS			20	13	1	4 20).7		LIGHTING		-			
SPARE	and the second		20	15		16	20			SPARE	RECEPTS		1.1	20	15	1	6 20		0.1		LIGHTING					t
SPARE			20	17	1	18	20			SPARE	RECEPTS	1.1		20	17	1	8 20).5		EXIT/EM LTG		D	WALL	LED	
SPARE			20	19	1	20	20			SPARE	RECEPTS		1.1	20	19	2	0 20		1.0		FURN F-1					
SPARE			20	21	1	22	20			SPARE	RECEPTS	1.1		20	21	2	2 20		1.0		FURN F-2					Γ
SPARE			20	23	1	24	20			SPARE	RECEPTS		1.1	20	23	2	4 20		0.:		WATER HEATER		DX	WALL	LED	
SPARE			20	25	1	26	20			SPARE	RECEPTS	1.1		20	25	2	6 20).5		WATER HEATER					+
SPARE	and the second		20	27	1	28	20			SPARE	RECEPTS		1.1	20	27	2	8 20		0.:		WATER HEATER		EM	WALL	LED	
SPARE			20	29	1	30	20			SPARE	RECEPTS	1.1		20	29	3	0 20).5		CIRCU PUMP		EM	WALL	LED	
SPARE	and the second second		20	31	1	32	20			SPARE	RECEPTS		1.1	20	31		12	30	1.5		SHER/DRYER COMBO	⊢				⊢
SPARE			20	33		34	20			SPARE	RECEPTS	1.1		20	33	3	4 2		1.9	WA	SHEK/DKTER COMBO		EM1	WALL	LED	
SPARE	and the second sec		20	35	1	36	20			SPARE	RECEPTS		1.1	20	35	3	6	30	1.5	WA	SHER/DRYER COMBO				LLD	
SPARE			20	37		38	20			SPARE	SMOKE DET.	0.5		20	37	3	8 2		1.9	WA	SHER/DRIER COMBO					t
SPARE			20	39]	40	40		2.5	COND. UNIT	SMOKE DET.		0.5	20	39	4	10	50	- 1.9		ELEC. RANGE		F	RECESS	LED	
SPARE			20	41		42	2	2.5		COND. UNIT	SPARE			20	41	4	2 2		1.9		ELEU, KANUE					
	2.2	2.1						3.5	3.7	11.5 KVA (55A)	SPARE			20	43			40	2.:		COND. UNIT					
		-						-			SPARE			20	45	4	6 2		2.5		COND. UNIT		FX	RECESS	LED	
											SPARE			20	47	4	18	40	2.:		COND. UNIT					+
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											SPARE			20	51			00	5.		PANEL 'B'		X	UNIV	LED	
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10.4 10.4



5.7								
21.8	21.4	64.0KVA (308A)		X1	UNIV	LED	-	-
				u				
		_						
		Ţ						
	^	EXIST.POLE MOUNT TRANSFORMER						
	\sim							
	Γ	NEW 400A METER BAS (INSTALL IN EXISTING LOCATION)	SE 120 3 MET	208V, 1Ø-3 ER BASE	w			
	L	3-#500MCM, 1-#1/0 GN	D IN A	3-1/2"C				
	Γ	NEW 400A FUSIBLE SV 400A 2P	VITCH	(S.E. RAT	ED)			
		400A 3-#500MCM, 1-#1/0 GN	D IN A	A 3-1/2"C				

84	

LIGH	IT FIX	TURE SCHEDULE	
WATTS	NOMINAL DIMENSION	MFGR & CAT NO. OR ACCEPTABLE EQUIVALENT	REMARKS
15	7" ROUND	JUNO #JSF-7IN-10LM-30K-90CRI-MVOLT-ZT-WH-M6	7" ROUND SURFACE MOUNTED DISK
18	2'	LITHONIA #WL2-18L-EZ1-LP835	2' LED OVER-MIRROR LIGHT
66	8'	LITHONIA #LL8-8000LM-80CRI-35K-EPD-MINIO- EZT-MVOLT-WH	8' LED PENDANT LINEAR
24	-	LITHONIA #WPXO-LED-ALO-SWWZ-MVOLT-PE- DDBXD-M2 (850 LUMENS)	LED EXTERIOR WALL PACK WITH BUILT-IN PHOTOCELL
24	-	LITHONIA #WPXO-LED-ALO-SWWZ-MVOLT-PE- DDBXD-M2 (850 LUMENS)	LED EXTERIOR WALL PACK WITH BUILT-IN PHOTOCELL
-	-	LITHONIA #ELM6	LED EMERGENCY WALL PACK
	-	LITHONIA #ERE	LED EMERGENCY WALL PACK
6	6" ROUND	LITHONIA #LDN6-35-05-LO6-AR-LSS-MVOLT-GZ10	6° ROUND LED DOWNLIGHT
6	6" ROUND	LITHONIA #LDN6-35-05-LO6-AR-LSS-MVOLT-GZ10-EL	6° ROUND LED DOWNLIGHT WITH EMERGENCY BATTERY PACK
	-	LITHONIA #LQM-S-W-3-R-120/277-M6	LED EXIT LIGHT WITH EMERGENCY BATTERY PACK
	-	LITHONIA #LQM-LED-R-M6	LED EXIT/EMERGENCY COMBO UNIT



PANEL SCHEDULES

sheet number

ELECTRICAL SPECIFICATIONS:

- 10 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 pecifications 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, ambiguitie 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 Oness expressivity supported, no aduitional anovance with or 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
- 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 materia 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 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 informatio
- 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 minum, 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 switch
- 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 cond 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 conduits which are PVC for use in masonry or concrete. Any feeder 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 nsulation 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 centric bends.
- 6.1.9 Control circuit conduits (w/pull wires) under floor and in ceiling shall be as shown on drawings or as required.

springpoint 213 SOUTH ROGERS STREET, SUITE BLOOMINGTON, INDIANA 47404 812.318.2930 springpointarchitects con 17006 STATE OF MDIANA ONAL ENC project titl Ξ ON. DOMING വ LIVIN TON Ч **DOMING** ш **OPERATIV** AVE BL KIRKWOOD Õ , ≥ 2 4

project informatio

PROJECT NUMBER: ISSUE DATE: REVISION DATE CBU DETAIL RPZ PLAN CHANGES

22100 09/23/2022 11/07/2022

12/19/2022

sheet title

ELECTRICAL SPECIFICATIONS

sheet number

F50(

September 7, 2023

Drew Myers Senior Planner Monroe County Historic Preservation Board of Review 501 N Morton St. Bloomington, IN 47404

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

Dear Mr. Myers,

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.

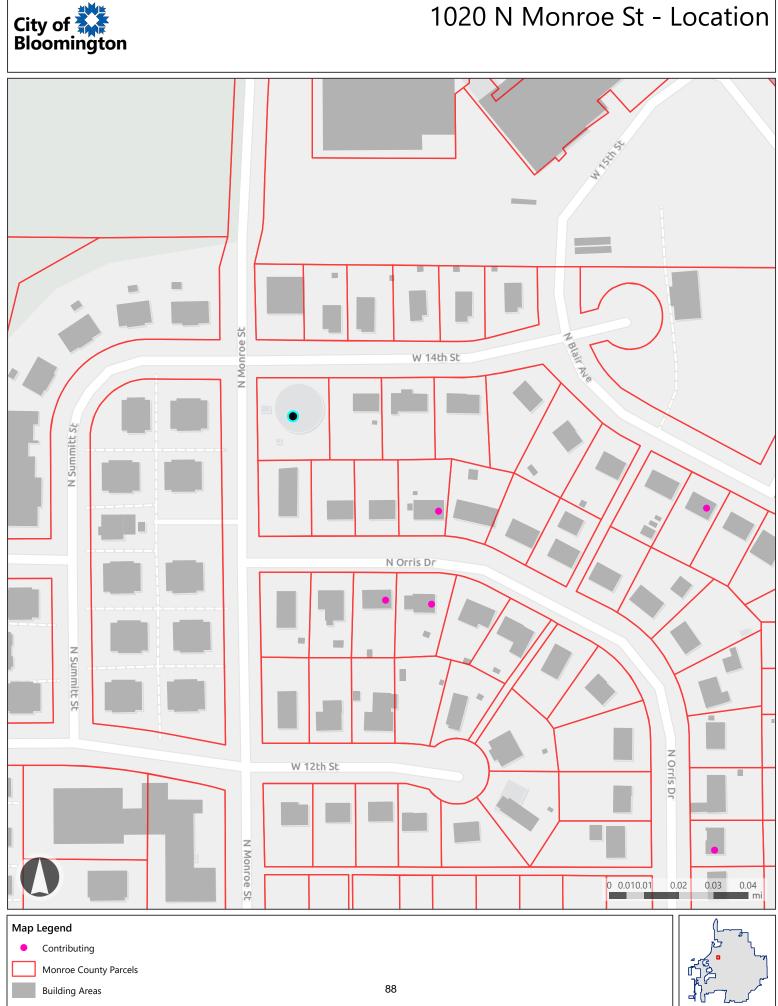
Sincerely,

(low Molom Grain

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



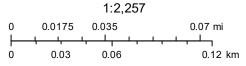
1020 N Monroe St, Bloomington, IN SHAARD Map



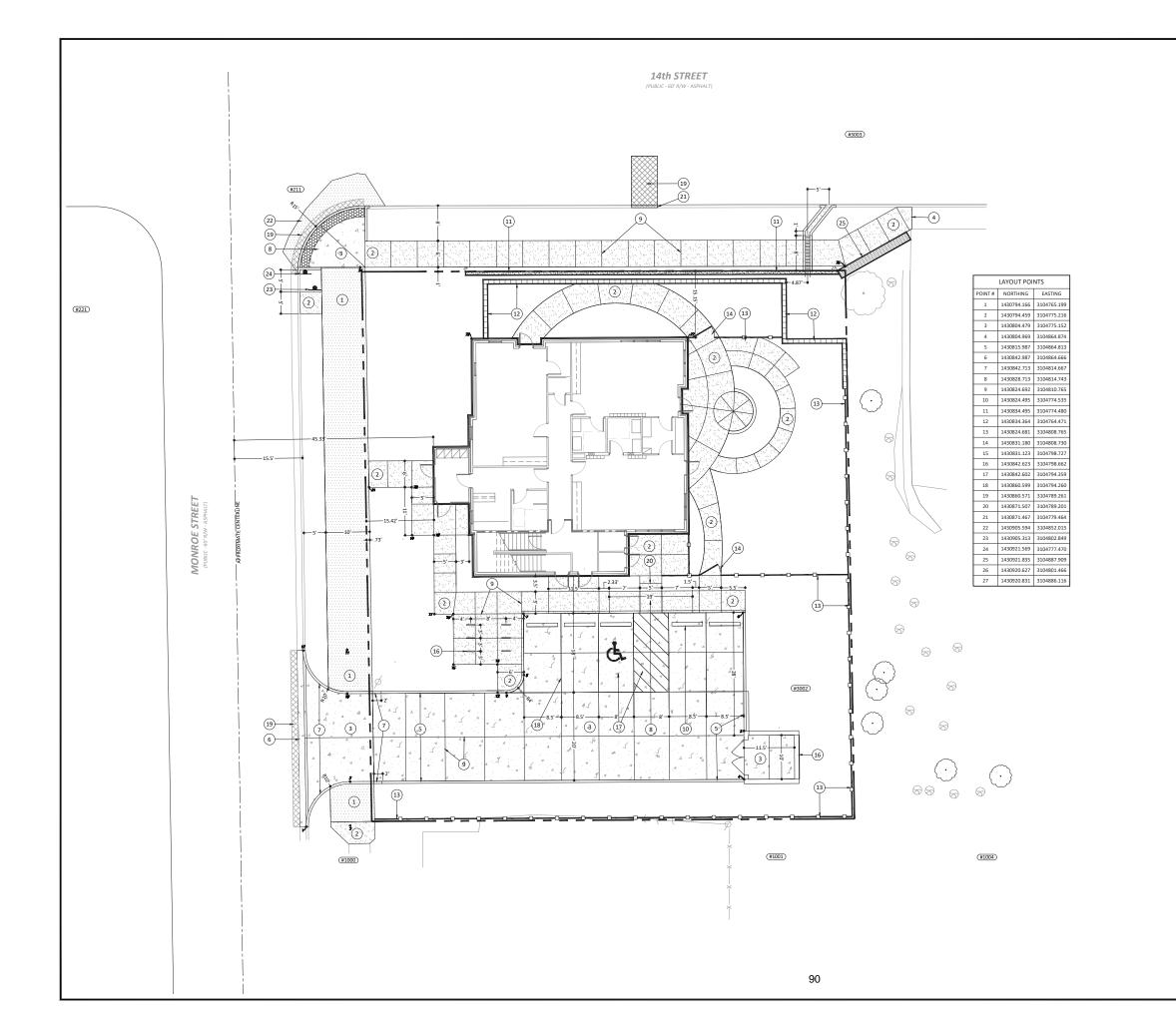
9/5/2023, 2:59:58 PM

County Survey Sites

Contributing



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



GENERAL NOTES

- A. ALL DIMENSIONS ARE TO FACE OF CURB, POINT OF TANGENCY, EDGE OF PAVEMENT, EDC OF WALK, FACE OF BUILDING OF FENCELINE, UNLESS OTHERWISE NOTED. CURB RETURN RADII ARE TO FACE OF CURB. COORDINATE DIMENSIONS WITH ARCHTECTURAL. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING
- 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 IMPROV AS NOTED OTHERWISE.
- D. SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ADA, AND CITY UDO.
- E. ALL STREET CUTS FOR UTILITIES AND OTHER IMPROVEMENTS SHALL BE REPAIRED TO MATCH EXISTING PAVEMENT SECTION OR BETTER.

PLAN NOTES ①

- 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
- INDOT STANDARD ADA COMPLIANT SIDEWALK RAMP, CAST IRON DETECTABLE WARNING PLATES BY EAST JORDAN IRON WORKS OR NEENAH FOUNDRY PER CT ENGINEERING'S DETECTABLE WARNING SURFACES APPROVED WATERIAL LIST ARE REQUIRED ON THE RAMP AT THE INTERSECTION OF 14TH AND MONROE AS INDICATED AFER TO DETAL 14/C/OL
- 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 ARHITECTURAL PLANS
- 13. FENCE REFER TO ARHITECTURAL PLANS
- 14. 5' GATE REFER TO ARHITECTURAL PLANS
- 15. DUMPSTER ENCLOSURE REFER TO ARHITECTURAL PLANS
- 16. BICYCLE PARKING TO MEET CITY OF BLOOMINGTON REQUIREMENTS 6 RACKS, 12 SPACES
- 17. ADA COMPLIANT VAN PARKING SPACE: INCLUDES PAVEMENT MARKING, 4" WIE 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: IMPERVIOUS AREA: 0.173 ACRES, 55 %

0.316 ACRES PERVIOUS AREA: 0.143 ACRES, 45 %

LEGEND

LIMITS OF NEW ASPHALT PAVEMENT

LIMITS OF NEW STANDARD DUTY CONCRETE PAVEMENT



PAVEMENT STRIPING 2' O.C.

SCALE: 1" = 10



213 SOUTH ROGERS STREET, SUITE 5 BLOOMINGTON, INDIANA 47404 812.318.2930 www.springpointgrchitects.co



Phone: 812-336-827 BRCJ PROJECT NUMBER: 10389

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project title

APARTMENTS T BLOOMINGTON, IN CENTER BHA CHILDCARE **14TH STREET** Ø WEST

project information

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

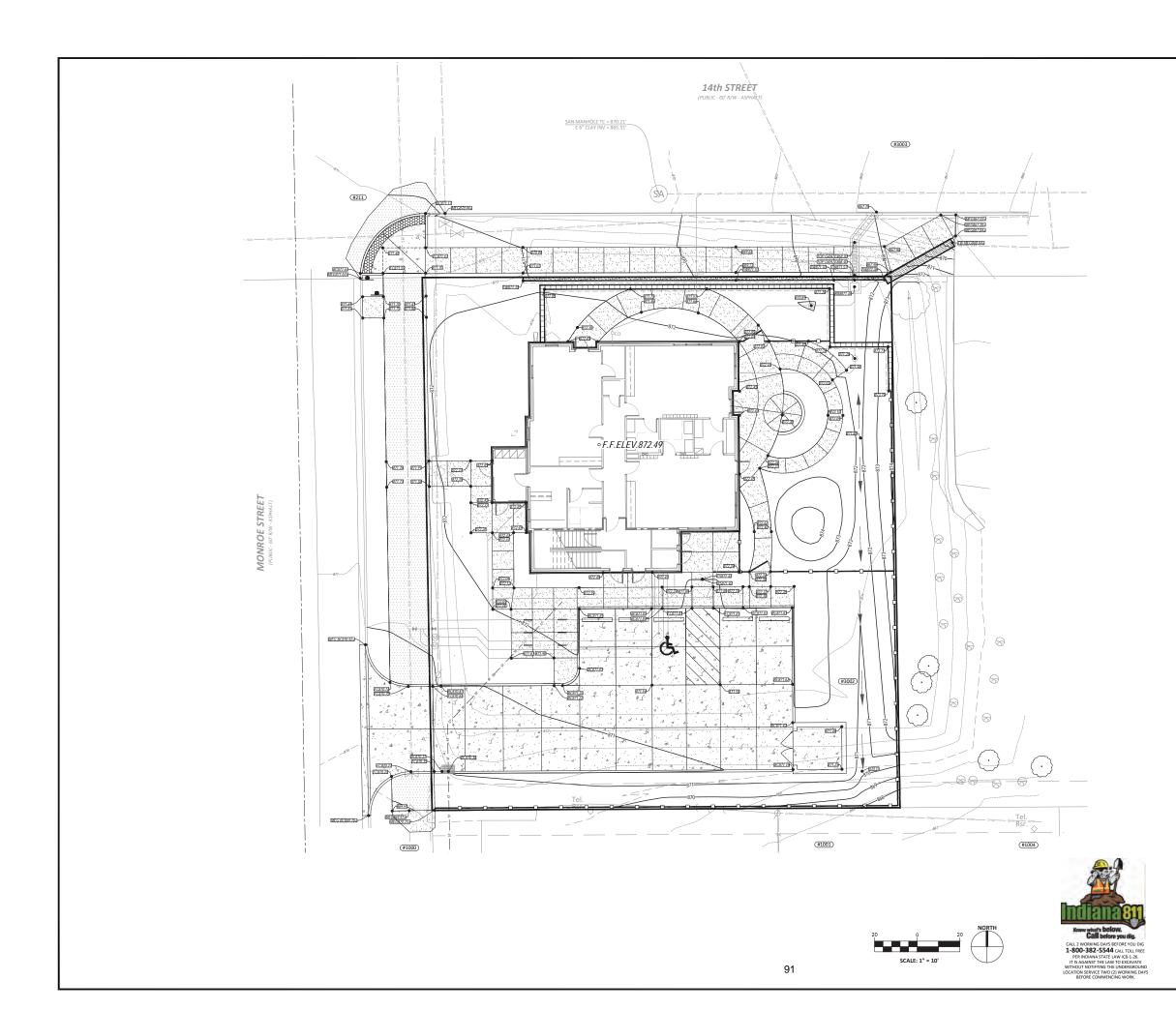
sheet title

SITE IMPROVEMENT PLAN

sheet number

C401





GENERAL NOTES

A. GRADE ALL AREAS TO THE FINISH GRADES SHOWN.

- B. CONTRACTOR TO VERIFY FIELD CONDITIONS WITH RESPECT TO THE PROPOSE GRADING PLANS AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRI TO BEGINNING WORK.
- C. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED AND WHEI NECESSARY TO CONTROL SEDIMENT.
- D. CONTRACTOR SHALL PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCANATIONS, FROM FONDING ON PREPARED SUBGRADES AND FROM FLODOING PROJECTSTE AND SURFAUDINING AREAS. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT AND DAMAGE BY RAIN OR WATER ACCUMULATION. THIS WILL REQUIRE SUPPLEMENTAL GRADING ABOVE AND BEYOND THAT SHOWN.
- E. CONTRACTOR SHALL ADJUST ALL CASTINGS TO FINISHED GRADE.
- F. CONTRACTOR SHALL ESTABLISH FINISH GRADES TO ENSURE POSITIVE DRAIL WITH NO PONDING.
- G. LONGITUDINAL SIDEWALK SLOPE SHALL NOT EXCEED 5%, UNLESS NOTED OTHERWISE. TRANSVERSE SIDEWALK SLOPE SHALL NOT EXCEED 1.5% UNLESS NOTED OTHERWISE.
- H. SPOT GRADES GIVEN AT THE FACE OF CURB INDICATE PAVEMENT EDGE/CURB INTERFACE (FLOW LINE) ELEVATION, UNLESS NOTED OTHERWISE. BOTTOM O WALL ELEVATIONS INDICATE WHERE FINISH GRADE AND WALL MEET.
- ALL SLOPES 3:1 OR GREATER TO BE COVERED WITH NORTH AMERICAN GREE S8150N EROSION CONTROL BLANKET OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

springpoint

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



1351 West Tapp Road Phone: 812-336-8277 BRCJ PROJECT NUMBER: 10389

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project title

APARTMENTS T BLOOMINGTON, IN CHILDCARE CENTER BHA **14TH STREET** Ø WEST : project information

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

sheet title

SITE GRADING PLAN

sheet number

TB TOP OF BANK

FL FLOW LINE

LEGEND

BS

BC

PROPOSED CONTOURS

623.20 SPOT ELEVATION

EXISTING CONTOURS

BW BOTTOM OF WALL AT FINISH GRADE ELEVATION

TS 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

MEG MATCH EXISTING GRAD TW TOP OF WALL

LIMITS OF NEW ASPHALT PAVEMENT

LIMITS OF NEW STANDARD DUTY CONCRETE PAVEMENT

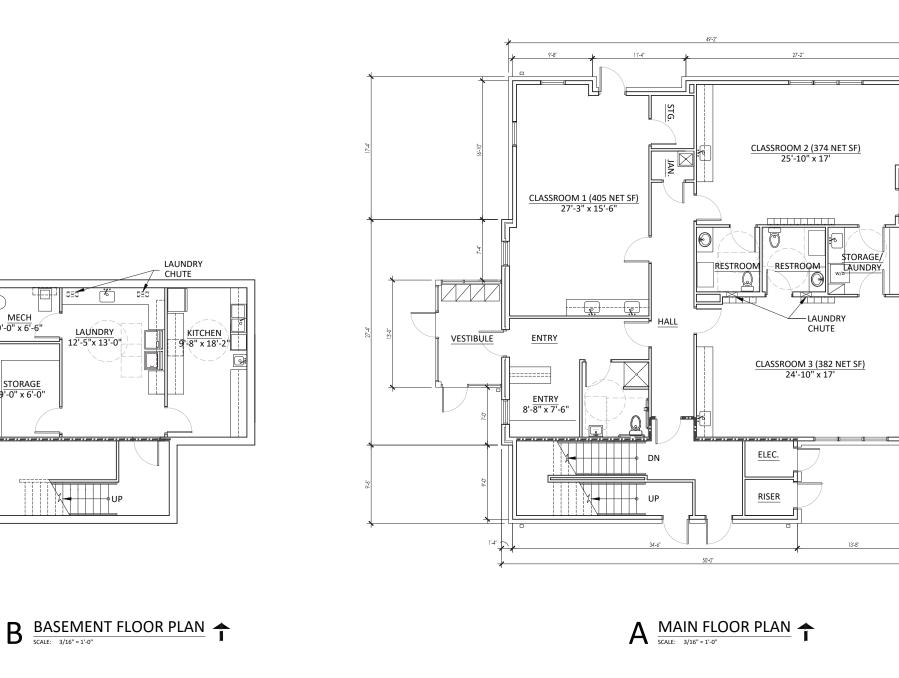
LIMITS OF NEW HEAVY DUTY CONCRETE PAVEMENT

FC FLUSH CURB - CURB IS IN FULLY DEPRESSED CONDITION

TC TOP OF CURB - PROVIDED ONLY WHEN CURB IS IN A NONSTANDARD HEIGHT CONDITION.

PAVEMENT STRIPING 2' O.C.

C501

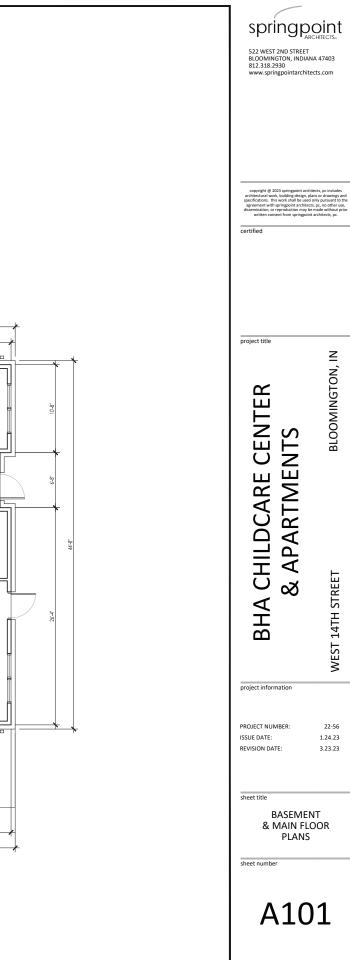


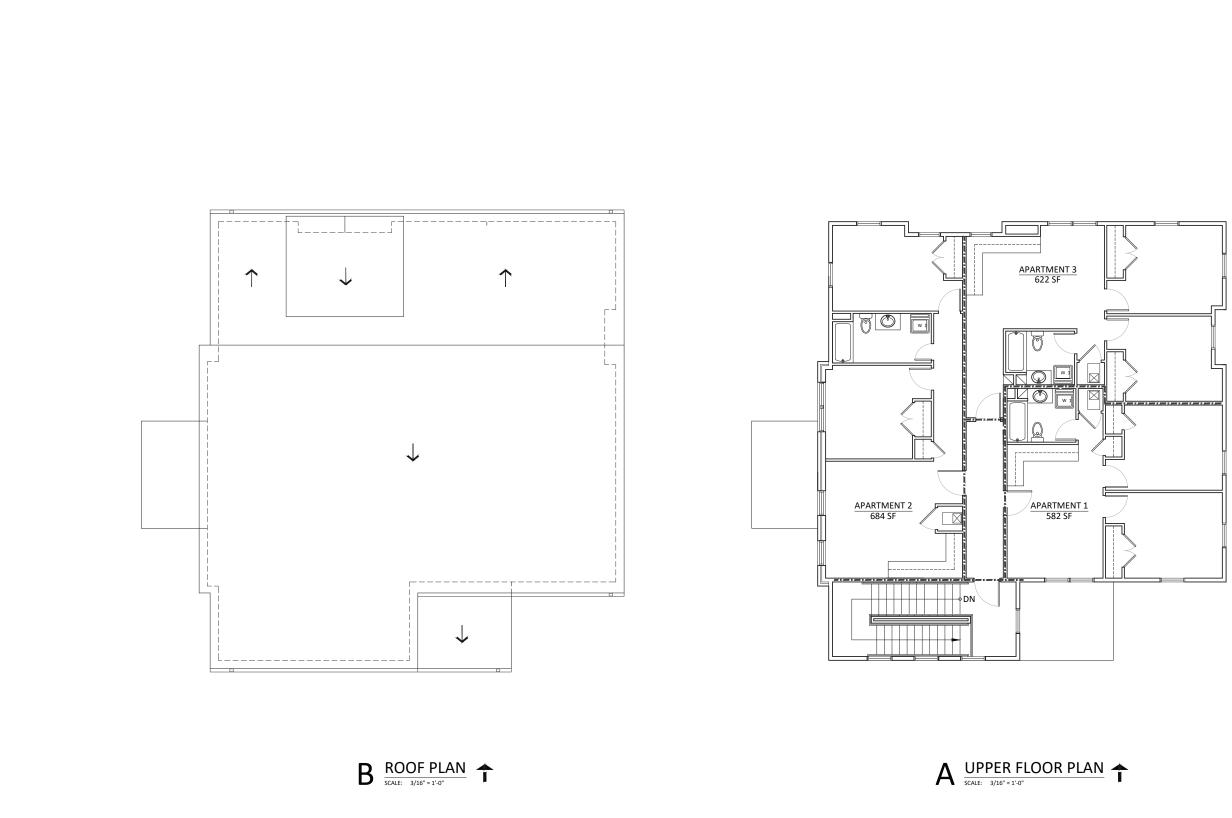
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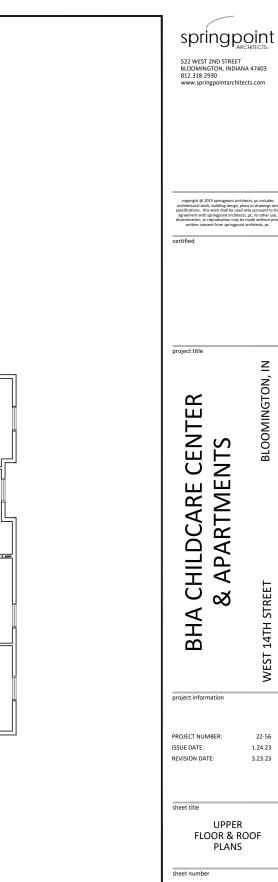
MECH

9'-0" x 6'-6"

STORAGE 9'-0" x 6'-0"









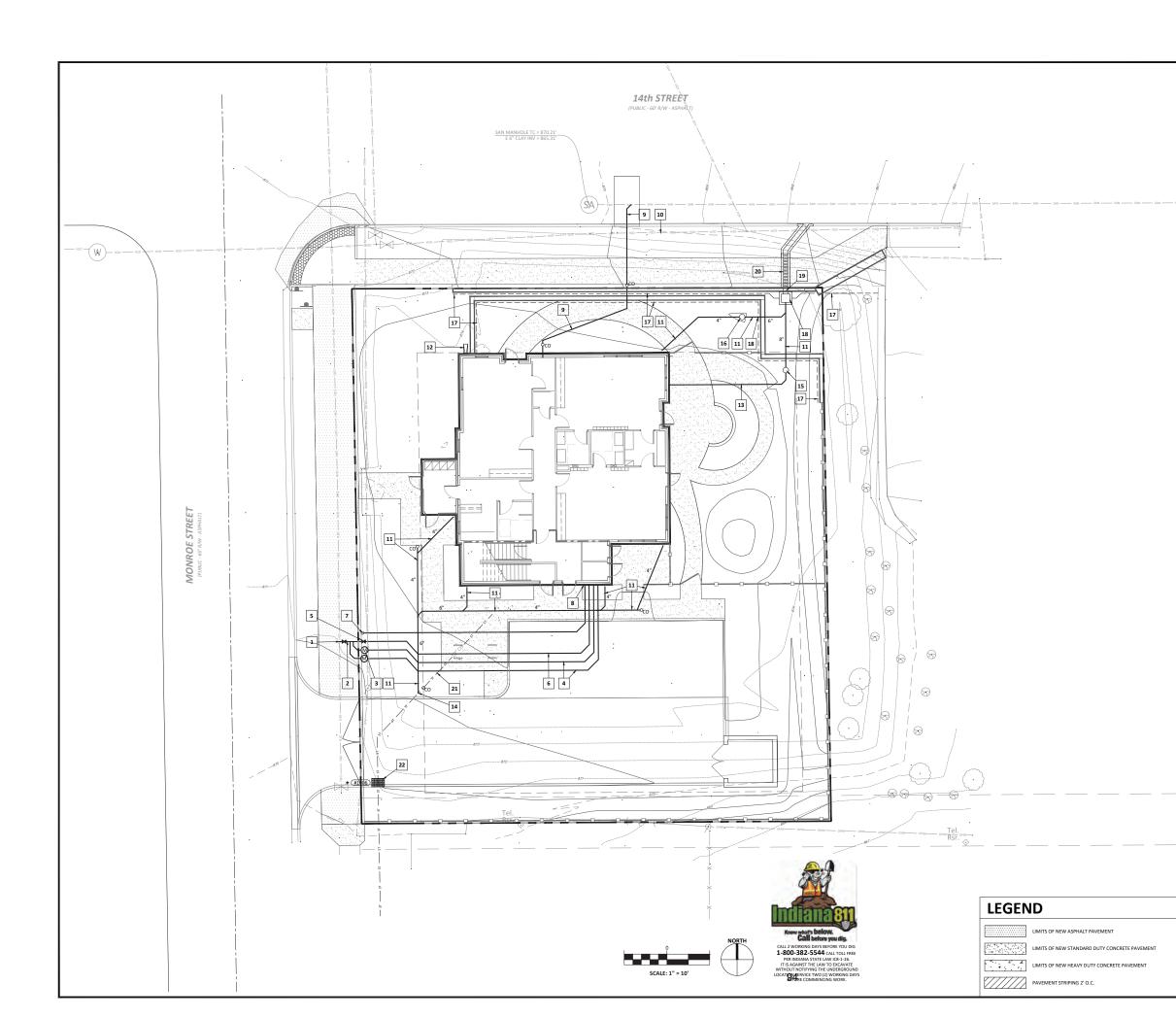
BLOOMINGTON, IN

WEST 14TH STREET

22-56

1.24.23

3.23.23



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 J AT 1:800-382-5544 AND OTHER UTILITIES PRIOR TO ANY EXCAVATION ON THE SITE.
- A 1 1-800-366-394 ANU UITER UTURES TRUNK TO ANT EACH TO THE STIC. LAL WORK ASSOCIATE WITH WATER AND SEVER SYSTEMS SHALL COMMENTAL MANAGEM STANDARGS & REQUIREMENTS OF THE HORINA DEPT. OF ENVIRONMENTAL MANAGEM WORKS ASSOCIATION (AWWA), THE REGRAT LAKE-SUPPLY REMOSSIBLE PROAD OF STATE PUBLIC HALTH AND ENVIRONMENTAL MANAGERS (GLUMBB), THE HORINA PLUMBING CODE AND THE CTO OF BLOOMINGTON UTUTIES CONSTRUCTION SYSTEMCATION.
- CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL SET ALL EXISTING AND PROPOSED CASTINGS AND CLEANOUT CON TO FINAL FINISHED GRADE.
- TO FINAL FINISHED GRADE. 4. AMUINUM OF 13 INCHES VERTICAL SEPARATION SHALL RE MAINTAINED BETWEEN WA AND SAMITARY/STORM SEWER JUNIESS OTHERINSE INICIATED, OR UNIESS WATTER PERMISSION S GONEN BY THE ENGINEER. SEVERE CROSSING WATTER MAINS SHALL BE L TO MAINTAIN A MININUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE THE WATTER MAIN NA DO OUTSIDE OF THE SEVER MAIN. THIS SHALL BE HA TO MAINTAIN A MININUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE SO THAT THE CONTSIN THE SEVER MAIN. THIS SHALL BE HA CASE WHETT THE WATTER MAIN SA ADVC OR BELOW THE SEVER MAIN. THIS SHALL BE HA RA SPOSING OF A THE THE DISTINGT HE EVER MAIN WILL BE CONTON SHALL BE A RAMENDARY OF A REAL OF THE SEVER MAIN. THE CROSSING WATTER MAINS. WHERE WATTER MAIN FOR CONSENTION OF THE SEVER MAIN STRUCTURE ALS SPORT WATTER MAIN FOR CONSENTION OF THE SEVER MAIN STRUCTURE ALS SPORT WATTER MAIN FOR CONSENTIONED A SWERE, ADVICUTE THE CONSENTION AT THE MAINS. WHERE PROVIDED FOR THE SEVER WARK ADVICUTE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEVER TO MAINTAIN LIKE AND GRADE.
- G. A MINIMUM OF 10 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SANITARY/STORM SEWER UNLESS OTHERWISE INDICATED, OR UNLESS WRITTEN PERMISSION IS GIVEN BY THE ENGINEER.
- ALL STORM AND SANITARY MANHOLES AND STORM INLET STRUCTURES SHALL HAVE A MINIMUM SEPARATION OF 8' FROM WATER MAINS.
- ALL SANITARY LATERALS SHALL HAVE A MINIMUM COVER OF 30"- UNLESS NOTED OTHERWISE.
- ALL STORM LATERALS SHALL HAVE A MINIMUM COVER OF 24"- UNLESS NOTED OTHERWISE.
- ALL SANITARY AND STORM LATERALS SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT UNLESS NOTED OTHERWISE.
- 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 SANITAR AND STORM LATERALS, THE CONTRACTOR SHALL USE A NON-SHEAR COUPLING EQUAL TO FERNCO.
- PRE-CONSTRUCTION MEETING: EFFECTIVE MARCH 1, 2010, ALL PROJECTS WILL REQUIRE PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON UTILITIES (BUJ) PRIOR THE START OF CONSTRUCTION. THE CONTRACTOR ANA/OR OPEN-COPER MUST CONTACT THE UTILITIES TECHNICIAN AT (812)349-3676 TO SCHEDULE THE MEETING.
- THE UTILIES LECTION AT L62/399-3910 STREAME THE WEETING. UTILITIES INSPECTION CONTRACTOR SHALL NOTP'THE CITY OF BLOOMNETON UTILITIE ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRICE TO CONSTRUCTION OF ANY NOTICE SO WORK CAN BE INSPECTED. DOCUMENTIA THE CITY OF BLOOMNETON UTILITIE WHEN A CONTRACTOR WORKS ON WEEKROS, A CBU DESIGNATED HOLDAY, OR BEYON NORMAL GBU WORK HOUSES AND HOLDAY INFORMATION, PLASE CONTACT THE CITY OF BLOOMNETON UTILIES DEPARTMENT AT (82)3943-560.
- P. ALL DUCTILE IRON PIPR 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 PL OR POLYETHYLENE WATER, SANITARY AND STORM LINES.

PLAN NOTES 1

- 6" WATER REPORT CONNECTION. CONTRACTOR TO CORRENANTE WITH CITY OF BIOGMINICTOR, UTLITIES (CBI UND APPLY FOR TAPAT TEST AS HOUSED CONTACTOR TO EXPOSE WATER MAIN, INSTALL TAPPING SEEVE AND VALVE AND CUT OTA THE MAIN. CONTRACTOR TO PLACE VALVE BOX, BASCHEL AND REPAIR. EXISTING CONDITIONS. CONTRACTOR RESPONSIBLE FOR ALL EXPENSES ASSOCIATED VTAPPING THE MAIN REVERT TO CHALL 2/CPO2
- 6" PRIVATE COMBINED WATER SERVICE LINE. AWWA C900 DR 14 PVC PIPE WITH DUG IRON FITTINGS AND MECHANICAL JOINT RESTRAINTS. ALL JOINTS TO BE RESTRAINED
- METER PIT FOR 2" PRIVATE DOMESTIC METER AND YOKE. COORDINATE WITH CBU. CONTRACTOR RESPONSIBLE FOR SERVICE SADDLE, CORPORATION STOP, CUBB STOP, AN ASSOCIATE DA METRIALS REQUIRED BY CBU. CBU TO INSTALL METER SETTER AND METER REFER TO DETAIL 5/CD2. CONTRACTOR RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH INSTALLING THE DOMESTIC SERVICE AND METER.
- 2" PRIVATE DOMESTIC WATER SERVICE LINE. ASTM B88 TYPE K COPPER OR BLUE POLYETHYLENE AWWA 901 PE 4710 ASTM D2737, CTS SDR 9 PC 250 PIPE.
- SUPERVISED POST INDICATOR VALVE (PIV) REFER TO DETAIL 9/C702. CONFIRM LOCATION WITH BLOOMINGTON FIRE CHIEF. REFER TO E AND/OR FP SERIES DRAWING FOR ASSOCIATED WIRING TO THE TAMPERPROOF SWITCH.
- 6" PRIVATE FIRE PROTECTION WATER SERVICE LINE. PRESSURE CLASS 350 DUCTILE IRO PIPE AND FITTINGS WITH MECHANICAL JOINT RESTRAINTS AND POLYWRAP. ALL JOINT BE RESTRAINED.
- FREE BEAARTMENT CONNECTION (DC) AND 4° PRIVATE REE PROTECTION WATER BEAARTMENT CONNECTION WATER BEAARTMENT TO A CONNECTION OF THE REPAIR OF THE RECENT OF
- DETECTOR METER RADIO HEAD TOUCH PAD AND CONDUIT TO FIRE PROTECTION RISER. REFER TO CBU STANDARD DETAIL 34 AND E-SERIES DRAWINGS FOR ADDIONTAL INFORMATION, COORDINATE WITH CBU
- INFORMATICAL COMMITTER THE COMMITTER AND A COM
- 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 ANI SEWER LATERAL.
- DOWNSPOUT COLLECTION AND DRAINAGE PIPE ASTM D 3034 SDR 35 PVC, GASKETED SUP JOINT PIPE AND FITTINGS. COMFIRM LOCATION OF DOWNSPOUT WITH ARCHITECTURAL DRAWINGS. SZLAS I SINDICATED. AT EACH DOWNSPOUT VICTURALUDE A STANLESS STELE, ADAPTER TO CONNECT TO THE COLLECTION PIPE BY PIEDMONT OR APPROVED EQUAL.
- 12. CONCRETE SPLASH BLOCK, REFER TO DETAIL 1/C702.
- FOUNDATION DRAIN COLLECTION PIPE ASTM D 3034 SDR 35 PVC, GASKETED SUP JOIN 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) AI 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
- INLET TYPE A BOX WITH EI 6500 DITCH GRATE. REFER TO DETAIL 11/C701. PROVIDE 3*J.01" RECTANGULAR OPENING AT INVERT FOR CONNECTION THRU WALL TO SIDEWALL TRENCH PRAIM. CONNECT EV SOR 35 PVC DRAINAGE PIPE AND RETAINING WALL FOOTEF DRAINS PER DETAIL 10/C702.
- 19. 3"x10" RECTANGULAR PENETRATION THRU RETAINING WALL. REFER TO DETAIL 10/C70. AND SECTION A/L201.
- SIDEWALK TRENCH DRAIN, EIW V7383-20W WITH V7320 BOLTED RAILS. 10" WIDE CONCRETE COLLAR AND TRENCH AS INDICATED. CONTINUE 10" WIDE X 5" DEEP CONC TRENCH TO 14" STREET. MODIFY EXISTING CURB TO ACCEPT TRENCH REFER TO DEI 4/C702.
- REMOVE UNUSED PORTION OF THE EXISTING 10" CIP OR ABANDON IN PLACE, FILL WITH FLOWABLE CEMENTIOUS FILL, AND CAP BOTH ENDS.
- 22. INLET TYPE J BOX WITH EJ 7030 CATCH BASIN CURB INLET, TYPE T1 BACK, AND M4 VAN GRATE. CONTRACTOR TO FIELD VERIFU LOCATION OF EXISTING J0" CIP FOR FINAL POSITION OF NUET. CULT AND BEMOVE SECTION OF PIET OA CEPT HILT. SALA ANAUL OPENINGS WATER TIGHT WITH NON-SHRINK GROUT. SET TOP OF CASINT ALONG CURB LINE AT ELEVATION 870.38 REFER TO ETAIL LI/C701



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project title



project information

PROJECT NUMBER:	20-01
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sheet number

C601





Project Priorities: Outreach and Preservation. Ongoing Board Initiatives

1) Limestone Heritage Project

- a. Update website with new information as it is available
- b. Connect with Partners on information to link to

Sub-committee members: Debby, Susan, Polly

2) Drystone Walls

- a. Create list of action steps needed to prep for launch of survey
- b. Launch and conduct survey
- c. Discuss/pursue local designations and/or in-depth documentation of some walls
- d. Explore possibility for a hands-on workshop

Sub-committee members: Duncan, Don, Donn, Susan

3) Community and Site Signage

- a. Pursue community signage as long as funding is provided
- b. Pursue interpretive signate for new historic covered bridge

Sub-committee members: Devin, Don, Donn

4) Public Historic Preservation Education

- a. Develop a social media scavenger hunt of architectural types, styles, etc.
- b. Update current driving tour brochures as needed, consider completion of partially completed brochures, and examine new options for distribution of information to the public
- c. Participate in the Limestone Month Festival June 17, 2023
- d. Host Limestone Heritage Teacher's Workshop June 21-23, 2023

Sub-committee members: Devin, Polly, Susan, Doug

5) Annual Property Owner Notice

- a. Send previous year's letter to full board for review (January-February) and update if needed
- b. Confer with staff on sending letter to property owners (February-March)

Sub-committee members: Don, Debby, Polly

6) Demolition Delay and Staffing Committee

- a. Review demolition delay examples and develop a draft document for Monroe County
- b. Review County Development Ordinance for proposed revisions per the proposed timeline
- c. Engage in discussions with the Plan Commission Executive Committee in creating plans and procedures for demolition delay, public notification, staffing needs, etc.

Sub-committee members: Duncan, Donn, Susan

Project Priorities: Procedure, Time Sensitive Initiatives—All Board

1) Actively engage in County Development Ordinance revisions

Board Education Priorities, Ongoing Options—All Board and staff

- 1) Attend the Preserving Historic Places Conference (September 19-22, 2023)
- 2) Attend CAMP held just prior to the preservation conference (September 13, 2023 virtual)
- 3) Attend, either in-person or online, lectures on topics of historical and preservation interest locally or elsewhere
- 4) Read books and other literature approved by DHPA's CLG coordinator and refer to the lit of other options provided by DHPA
- 5) Hold our own educational sessions/workshops presented by a board member or other qualified individual 96