

Board of Public Works Meeting

January 02, 2024



The City will offer virtual options, including CATS public access television (live and tape-delayed) and

Public comments and questions will be encouraged via Zoom or bloomington.in.gov rather than in person

The City is committed to providing equal access to information. However, despite our efforts, at times, portions of our board and commission packets are not accessible for some individuals. If you encounter difficulties accessing material in this packet, please contact April Rosenberger, Public Works Departmental Accessibility contact at april.rosenberger@bloomington.in.gov or 812.349.3411 and provide your name, contact information, and a link to or description of the document or web page you are having problems with.

AGENDA
BOARD OF PUBLIC WORKS
January 02, 2024

A Regular Meeting of the Board of Public Work will be held Tuesday, **January 02, 2024 at 5:30 p.m.** in the Council Chambers (Rm #115) of City Hall at the Showers Building, 401 N. Morton Street, Bloomington, Indiana and via Zoom by using the following link

<https://bloomington.zoom.us/j/83634976849?pwd=pOJW2eGspQxrAe3KBwka35aUTzapEg.1>

Meeting ID: 836 3497 6849 Passcode: 385309

- I. MESSAGES FROM BOARD MEMBERS**
- II. PETITIONS AND REMONSTRANCES**
- III. TITLE VI ABATEMENT**
 1. Request for Abatement at 622 N. North Street
 2. Request for Abatement at 1719 W. Gray Street
- IV. CONSENT AGENDA**
 1. Bonding Agreement with City of Bloomington Utilities
 2. Bonding Agreement with Indiana University
 3. Extension #3 for ParkMobile
 4. Revised Resolution 2023-86; Freezefest
 5. Request for Extended Use of Parking Spots at N. Grant and E. 6th from Red Truck Bloomington
 6. Approval of Payroll
- V. NEW BUSINESS**
 1. Request for Sidewalk Closure Extension on W. Allen Street from F.A. Wilhelm
 2. Request for Lane and Sidewalk Closure from AEG
 3. Request for Lane Closure along E 10th and S. Washington from Lineal Contracting
 4. Request for Sidewalk Closure along S. Hawthorne Drive from T Mobile
 5. Resolution 2024-001; Uphold Order to Remove 410-414 S Walnut St
 6. Resolution 2024-002; Confirm Appointment of Adam G. Wason as Director of Public Works
- VI. STAFF REPORTS & OTHER BUSINESS**
- VII. ADJOURNMENT**

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The City offers virtual options, including **CATS** public access television (live and tape- delayed). Comments and questions will be encouraged via Zoom or bloomington.in.gov rather than in person.

Auxiliary aids for people with disabilities are available upon request with adequate notice. Please call 812.349.3411 or email public.works@bloomington.in.gov

Staff Report

To: Board of Public Works

From: Rebecca Davis

Date: January 2, 2024

Re: Request to abate property at 622 N. North Street, Bloomington, Indiana

Attachments:

1. Notices of Violation issued 11/9/2023, 11/16/2023, 11/30/2023, and 12/15/2023.
2. Photograph(s) of the property
3. GIS property information
4. Order for Abatement (proposed)

Facts:

1. Bloomington Municipal Code § 6.06.020 makes it unlawful for “any person to throw, place, or scatter any garbage, rubbish, trash, or other refuse over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, rubbish, trash or other refuse to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to later remove, cover, or burn it.”
2. On November 9, 2023, a Neighborhood Compliance Office inspected the property located at 622 N. North Street, Bloomington, Indiana (hereinafter, the “Property”) for trash and scattered litter on the Property and issued a Notice of Violation for garbage, rubbish, and trash in violation of BMC § 6.06.020.
3. On November 16, 2023; November 30, 2023; and December 15, 2023, a Neighborhood Compliance Officer re-inspected the Property and issued additional Notices of Violation for the trash and litter on the Property in violation of BMC § 6.06.020 (hereinafter, the November 9 Notice of Violation and the November 16, November 30, and December 15 Notices of Violation are collectively the “NOVs”).
4. The NOVs were issued to Jessica Thompson (hereinafter, the “Owner”), the owner of the Property.
5. The violations have not been corrected and the NOVs were not appealed.
6. The NOVs were posted in a conspicuous place at the Property in accordance with BMC § 6.06.070(b).
7. The Notice of Request to Abate was served on the Owner of the Property by certified mail in accordance with BMC § 6.06.080(b).
8. The abatement order should be continuous.

Status of the Property and Reason for Abatement:

The Property remains out of compliance. Garbage remains thrown, placed and scattered on the Property. The Property needs to be abated to eliminate the violation and public nuisance.

Staff Recommendation:

Staff recommends that the Property be abated as soon as reasonably possible and that the order be continuous in nature.



Notice of Violation

Housing & Neighborhood Development Department (HAND)
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 11/09/2023 Time 3:35 PM Address/location 622 N. NORTH ST 47404

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 Warning (No fine due at this time) Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$15.00/day per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 \$100 \$150 Warning (No fine due at this time) Ticket# 62023-11-1882

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 \$100 \$150 Warning (No fine due at this time) Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

Comments: REMOVE ALL GARBAGE SCATTERED ABOUT PROPERTY

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name JESSICA THOMPSON
 Address 2282 LITTLE TRACE CREEK RD
 City BULLING SPRINGS State TN
 Zip Code 37150

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____

BPW: _____

Mail Copies To: Resident: Owner: Agent: _____



Notice of Violation

**Housing & Neighborhood
Development Department (HAND)**
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 11/16/2023 Time 4:43pm Address/location 622 N NORTH ST

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$15.00/day** per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# 62023-11-1892

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

Comments: GARBAGE

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name JESSICA THOMPSON
 Address 2282 LITTLE TRACE CREEK RD
 City RED BOILING SPRINGS State TN
 Zip Code 37150

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____

BPW: _____

Mail Copies To: Resident: _____ Owner: _____ Agent: _____



Notice of Violation

**Housing & Neighborhood
Development Department (HAND)**
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 11/30/2023 Time 3:34pm Address/location 622 N NORTH ST

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$15.00/day per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# 62023-11-1931

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

Comments: REMOVE ALL GARBAGE.

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name JESSICA THOMPSON
 Address 2282 LITTLE TRACE CREEK RD
 City RFD BAILING SPRINGS State TN
 Zip Code 37150

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____

BPW: _____

Mail Copies To: Resident: _____ Owner: / Agent: _____



Notice of Violation

Housing & Neighborhood Development Department (HAND)
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 12/15/2023 Time 2:40 PM Address/location 622 N NORTH ST 47404

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 Warning (No fine due at this time) Ticket# _____

NOTE: *Immediate compliance required* in order to avoid additional violations/fines assessed at \$15.00/day per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 \$100 \$150 Warning (No fine due at this time) Ticket# 62023-12-1980

NOTE: *Immediate compliance required* in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 \$100 \$150 Warning (No fine due at this time) Ticket# _____

NOTE: *Immediate compliance required* in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

Comments: REMOVE ALL TRASH ON PROPERTY.
PROPOSING ABATEMENT AT THE BOARD OF PUBLIC
WORKS MEETING 01/02/2024

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name JESSICA THOMPSON
 Address 2282 LITTLE TRACE CREEK RD
 City RED BOLLING SPRINGS State TN
 Zip Code 37150

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____

BPW: 1/02/2024

Mail Copies To: Resident: _____ Owner: _____ Agent: _____



**City of Bloomington
Housing and Neighborhood Development**

NOTICE OF REQUEST FOR ABATEMENT

To: Thompson, Jessica (“Property Owner”)

The City of Bloomington Housing and Neighborhood Development (“HAND”) Department has requested that the Board of Public Works issue an order to abate the ordinance violation(s) noted on the attached ticket(s) at the property located at 622 N North St, Bloomington, In 47404, under parcel number 53-01-22-670-000.020-005 and whose legal description is 013-26700-20 Gray Lot 20 (Hereinafter the “Property”).

If the Board of Public Works grants HAND’s request, then HAND or its third party contractor will enter into and onto the Property and abate the violation(s). The Property Owner shall be responsible for reimbursing the City for the abatement and all associated costs. If the Property Owner fails to reimburse the city for any and all costs associated with an abatement of his property, said costs shall be filed with the county auditor and placed on the tax duplicate for the property at issue; said costs being collected as taxes are collected.

If you do not immediately remedy the ongoing ordinance violations on your property, HAND will seek authorization for abatement of said violation(s) at the Board of Public Works meeting to be held at **5:30 P.M. Tuesday January 2, 2024 via ZOOM meetings and in person in the Council Chamber of City Hall, 401 N. Morton Street, Bloomington, Indiana 47404. You must contact the Office of Public Works at 812-349-3410 or email at public.works@bloomington.in.gov for further information.**

The Property Owner is entitled to present arguments and evidence in defense of this request for abatement.

Fines are not appealed at this meeting





Monroe County, IN

622 N North ST, Bloomington, IN 47404-2746
53-01-22-670-000.020-005



Parcel Information

Parcel Number: 53-01-22-670-000.020-005
Alt Parcel Number: 013-26700-20
Property Address: 622 N North ST
Bloomington, IN 47404-2746
Neighborhood: Gray Subdivision 2 - V
Property Class: Other Commercial Housing
Owner Name: Thompson, Jessica
Owner Address: 2282 Little Trace Creek Rd
Red Boiling Springs, TN 37150
Legal Description: 013-26700-20 Gray Lot 20

Taxing District

Township: BLOOMINGTON TOWNSHIP
Corporation: MONROE COUNTY COMMUNITY

Land Description

<u>Land Type</u>	<u>Acreage</u>	<u>Dimensions</u>
9	0.31	

City of Bloomington’s Board of Public Works
Order of Abatement for NOV

This matter is before the Board of Public Works for Abatement of Notice of Violations issued 11/9/2023, 11/16/2023, 11/30/2023, and 12/15/2023 (hereinafter, the “NOVs”). The Board of Public Works received information regarding the NOVs at its regular meeting on Tuesday, January 2, 2024.

The Board of Public Works now finds as follows:

1. Jessica Thompson (hereinafter, the “Owner”) owns the real estate located at 622 N. North Street, Bloomington, Indiana, parcel number 53-01-22-670-000.020-005, and whose legal description is 013-26700-20 Gray Lot 20 (hereinafter, the “Property”).
2. On 11/9/2023, 11/16/2023, 11/30/2023, and 12/15/2023, Rebecca Davis, City of Bloomington Neighborhood Compliance Officer, issued the NOVs after personally observing garbage, rubbish, and trash deposited on the Property in violation of BMC § 6.06.020.
3. Substantial evidence in the form of photographs of the Property and eye witness testimony from the City of Bloomington Neighborhood Compliance Officer establish the need to abate the Property.
4. The NOVs were properly issued to the Owner in accordance with BMC § 6.06.070(b).
5. The NOVs were not appealed.
6. The violation(s) cited in the NOVs were not remedied.
7. Notice of the City’s request to abate the Property was properly issued and the Owner properly notified in accordance with BMC § 6.06.080(b).

After reviewing all of the evidence and testimony presented, the Board of Public Works hereby Orders as follows:

- A. The City, via either its employees or a third-party private contractor hired by the City, is authorized to enter into and onto the Property in order to bring said Property into compliance with Chapter 6.06 of the City of Bloomington Municipal Code. Specifically, the City, via either its employees or a third-party contractor hired by the City, is authorized to enter into and onto the Property to remove any and all garbage, rubbish, and trash as those terms are defined in Chapter 6.06 of the City of Bloomington Municipal Code.
- B. The City shall bill the Owner for all associated costs of abatement. The Owner shall remit payment in full no later than ten days from receipt of the bill.
- C. If the Owner fails to comply with paragraph B above, a certified copy of the statement of costs incurred by the City shall be filed in the office of the Monroe County Auditor. The Monroe County Auditor shall thereupon place the amount due on the tax duplicate for the Property.
- D. **CONTINUOUS ABATEMENT:** In accordance with Section 6.06.080(e) of the City of Bloomington Municipal Code, this Order of Abatement is a **CONTINUOUS ORDER OF ABATEMENT**. The City is hereby authorized to abate any further ordinance violations of Chapter 6.06 of the City of Bloomington Municipal Code at this Property concerning

deposit of garbage without notice or a hearing in front of this Board while this Order remains in effect.

- E. **THIS ABATEMENT ORDER SHALL CONTINUE FOR TWELVE MONTHS AND EXPIRES ON THE 9th day of November, 2024.**
- F. Public Works shall notify the Owner of this Order and HAND shall post this Order on the Property at the time of abatement.
- G. All appeals from the Board's decision on an abatement request shall be made to courts of competent jurisdiction within ten days.

So Ordered this 2nd day of January, 2024.

Kyla Cox Deckard, President
Board of Public Works
City of Bloomington

Staff Report

To: Board of Public Works

From: Rebecca Davis

Date: January 2, 2024

Re: Request to abate property at 1719 W. Gray Street, Bloomington, Indiana

Attachments:

1. Notices of Violation issued 09/07/2023, 09/21/2023, 10/12/2023, and 12/15/2023.
2. Photograph(s) of the property
3. GIS property information
4. Order for Abatement (proposed)

Facts:

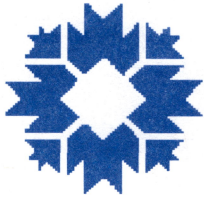
1. Bloomington Municipal Code § 6.06.020 makes it unlawful for “any person to throw, place, or scatter any garbage, rubbish, trash, or other refuse over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, rubbish, trash or other refuse to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to later remove, cover, or burn it.”
2. On September 7, 2023, a Neighborhood Compliance Office inspected the property located at 1719 W. Gray Street, Bloomington, Indiana (hereinafter, the “Property”) for trash and scattered litter on the Property and issued a Notice of Violation for garbage, rubbish, and trash in violation of BMC § 6.06.020.
3. On September 21, 2023; October 10, 2023; and December 15, 2023, a Neighborhood Compliance Officer re-inspected the Property and issued additional Notices of Violation for the trash and litter on the Property in violation of BMC § 6.06.020 (hereinafter, the September 7 Notice of Violation and the September 21, October 10, and December 15 Notices of Violation are collectively the “NOVs”).
4. The NOVs were issued to Gerald and Nancy Hillenburg (collectively, the “Owner”), the owners of the Property.
5. The violations have not been corrected and the NOVs were not appealed.
6. The NOVs were posted in a conspicuous place at the Property in accordance with BMC § 6.06.070(b).
7. The Notice of Request to Abate was served on the Owner of the Property by certified mail in accordance with BMC § 6.06.080(b).
8. The abatement order should be continuous.

Status of the Property and Reason for Abatement:

The Property remains out of compliance. Garbage remains thrown, placed and scattered on the Property. The Property needs to be abated to eliminate the violation and public nuisance.

Staff Recommendation:

Staff recommends that the Property be abated as soon as reasonably possible and that the order be continuous in nature.



Notice of Violation

**Housing & Neighborhood
Development Department (HAND)**
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 9/7/2023 Time 4:21 pm Address/location 1719 W GRAY ST

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$15.00/day** per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 **\$100** **\$150** **Warning (No fine due at this time)** Ticket# 62023-09-1540

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 **\$100** **\$150** **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

Comments: REMOVE ALL TRASH FROM PREMISES

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name GERALD & NANCY HILLENBURG
 Address 1719 W GRAY ST
 City BLOOMINGTON State IN
 Zip Code 47404

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____



Notice of Violation

**Housing & Neighborhood
Development Department (HAND)**
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 9/21/23 Time 2:50pm Address/location 1719 W. GRAY ST 47404

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$15.00/day** per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# 62023-09-1540

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# 62023-09-1540

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

Comments: _____

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name GERALD & NANCY HILLENBURG
 Address 1719 W GRAY ST
 City Bloomington State IN
 Zip Code 47404

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____

BPW: _____

Mail Copies To: Resident: Owner: _____ Agent: _____



Notice of Violation

**Housing & Neighborhood
Development Department (HAND)**
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 10/12/2023 Time 2:46 PM Address/location 1719 W. GRAY ST 47404

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$15.00/day** per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# 62023-09-1540

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 \$100 \$150 **Warning (No fine due at this time)** Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at **\$50.00, \$100, or \$150/day** per BMC 6.06.070(c).

Comments: TRASH

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name GERALD & NANCY HILLENBURG
 Address 1719 W. GRAY ST
 City BLOOMINGTON State IN
 Zip Code 47404

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____

BPW: _____

Mail Copies To: Resident: _____ Owner: Agent: _____



Notice of Violation

Housing & Neighborhood Development Department (HAND)
P.O. Box 100
401 N. Morton Street
Bloomington, IN 47402
www.bloomington.in.gov/hand/

Date 12/15/2023 Time 2:42 pm Address/location 1719 W GRAY ST 47404

Issued by: 219

BMC 6.04.110 Carts, containers and other articles to be picked up shall not be placed upon the street or sidewalk *so as to be visible* from the street more than twenty-four hours prior to the time when such solid waste, recycling or yard waste is to be collected. Carts and containers shall be removed from the street or sidewalk on the same day as the collection is made.

Fine Due: \$15.00 Warning (No fine due at this time) Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$15.00/day per BMC 6.04.100(c).

BMC 6.06.020 It is unlawful for any person to throw, place, or scatter any garbage, recyclable materials or yard waste over or upon any premises, street, alley, either public or private, or to suffer or permit any garbage, recyclable materials or yard waste to be placed or deposited on the premises owned, occupied or controlled by such person either with or without the intent to remove, cover or burn it.

Fine Due: \$50 \$100 \$150 Warning (No fine due at this time) Ticket# 62023-12-1981

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

BMC 6.06.050 It is unlawful for the owner of any lot or tract of ground within the city to allow it to become overgrown with weeds, grass, or noxious plants beyond the height of 8 inches or to such extent that the growth is detrimental to the public health and constitutes a nuisance.

Fine Due: \$50 \$100 \$150 Warning (No fine due at this time) Ticket# _____

NOTE: Immediate compliance required in order to avoid additional violations/fines assessed at \$50.00, \$100, or \$150/day per BMC 6.06.070(c).

Comments: REMOVE ALL TRASH ON PROPERTY. PROPOSING ABATEMENT AT THE BOARD OF PUBLIC WORKS MEETING 01/02/2024

1. Fine must be paid within 2 weeks from date of issuance of the Notice of Violation (NOV) to avoid this matter being forwarded to the City's Legal Department for further enforcement action. This NOV must be returned with payment. **You may pay in person or mail payment to the address listed above. Please make check/money order payable to "The City of Bloomington."** All fines listed above may be contested in the Monroe County Circuit Courts.
2. Fines shall not attach to non-possessory residential rental property owner(s) for a period of seven (7) days provided HAND is presented with a true and exact copy of any and all leases in effect during the time period covered by the NOV (per occurrence), at which time said tenant(s) shall be held responsible for fines due. A non-possessory residential rental property owner is the owner of record, but one that is not a resident of said property. Property owner(s) shall otherwise be held responsible for fines if a lease is not presented in the time period indicated.
3. The City may seek action by its Board of Public Works or the Monroe County Circuit Courts in assessing fines, ordering remediation of the property (the City has the authority to bring the property into compliance itself or the City may hire a private third-party contractor to bring the property into compliance) and/or assessing costs associated with clean-up of the property, and pursuing any other remedies available by law, including but not limited to injunctive relief. If the City or their designee, with permission from the City of Bloomington Board of Public Works, enters the property and abates the violation the owner shall be responsible for reimbursing the City for the abatement and all associated cost.
4. This NOV may be appealed to the City's Board of Public Works, provided a written appeal is filed with the Board, via the City's Public Works Department, within seven days of the date of issuance of this NOV.

Owner Name GERALD & NANCY HILLENBURG
 Address 1719 W GRAY ST
 City BLOOMINGTON State IN
 Zip Code 47404

Agent Name _____
 Address _____
 City _____ State _____
 Zip Code _____

BPW: 1/02/2024

Mail Copies To: Resident: _____ Owner: _____ Agent: _____



**City of Bloomington
Housing and Neighborhood Development**

NOTICE OF REQUEST FOR ABATEMENT

To: Hillenburg, Gerald & Nancy (“Property Owner”)

The City of Bloomington Housing and Neighborhood Development (“HAND”) Department has requested that the Board of Public Works issue an order to abate the ordinance violation(s) noted on the attached ticket(s) at the property located at 1719 W Gray St, Bloomington 47404, under parcel number 53-05-31-104-001.015-005 and whose legal description is 013-11570-15 Gray Lot 15 (Hereinafter the “Property”).

If the Board of Public Works grants HAND’s request, then HAND or its third party contractor will enter into and onto the Property and abate the violation(s). The Property Owner shall be responsible for reimbursing the City for the abatement and all associated costs. If the Property Owner fails to reimburse the city for any and all costs associated with an abatement of his property, said costs shall be filed with the county auditor and placed on the tax duplicate for the property at issue; said costs being collected as taxes are collected.

If you do not immediately remedy the ongoing ordinance violations on your property, HAND will seek authorization for abatement of said violation(s) at the Board of Public Works meeting to be held at **5:30 P.M. Tuesday January 2, 2024 via ZOOM meetings and in person in the Council Chamber of City Hall, 401 N. Morton Street, Bloomington, Indiana 47404. You must contact the Office of Public Works at 812-349-3410 or email at public.works@bloomington.in.gov for further information.**

The Property Owner is entitled to present arguments and evidence in defense of this request for abatement.

Fines are not appealed at this meeting





City of Bloomington’s Board of Public Works
Order of Abatement for NOV

This matter is before the Board of Public Works for Abatement of Notice of Violations issued 09/07/2023, 09/21/2023, 10/12/2023, and 12/15/2023 (hereinafter, the “NOVs”). The Board of Public Works received information regarding the NOVs at its regular meeting on Tuesday, January 2, 2024.

The Board of Public Works now finds as follows:

1. Gerald and Nancy Hillenburg (hereinafter, the “Owner”) owns the real estate located at 1719 W. Gray Street, Bloomington, Indiana, parcel number 53-05-31-104-001.015-005, and whose legal description is 013-11570-15 Gray Lot 15 (hereinafter, the “Property”).
2. On 09/07/2023, 09/21/2023, 10/12/2023, and 12/15/2023, Rebecca Davis, City of Bloomington Neighborhood Compliance Officer, issued the NOVs after personally observing garbage, rubbish, and trash deposited on the Property in violation of BMC § 6.06.020.
3. Substantial evidence in the form of photographs of the Property and eye witness testimony from the City of Bloomington Neighborhood Compliance Officer establish the need to abate the Property.
4. The NOVs were properly issued to the Owner in accordance with BMC § 6.06.070(b).
5. The NOVs were not appealed.
6. The violation(s) cited in the NOVs were not remedied.
7. Notice of the City’s request to abate the Property was properly issued and the Owner properly notified in accordance with BMC § 6.06.080(b).

After reviewing all of the evidence and testimony presented, the Board of Public Works hereby Orders as follows:

- A. The City, via either its employees or a third-party private contractor hired by the City, is authorized to enter into and onto the Property in order to bring said Property into compliance with Chapter 6.06 of the City of Bloomington Municipal Code. Specifically, the City, via either its employees or a third-party contractor hired by the City, is authorized to enter into and onto the Property to remove any and all garbage, rubbish, and trash as those terms are defined in Chapter 6.06 of the City of Bloomington Municipal Code.
- B. The City shall bill the Owner for all associated costs of abatement. The Owner shall remit payment in full no later than ten days from receipt of the bill.
- C. If the Owner fails to comply with paragraph B above, a certified copy of the statement of costs incurred by the City shall be filed in the office of the Monroe County Auditor. The Monroe County Auditor shall thereupon place the amount due on the tax duplicate for the Property.
- D. **CONTINUOUS ABATEMENT:** In accordance with Section 6.06.080(e) of the City of Bloomington Municipal Code, this Order of Abatement is a **CONTINUOUS ORDER OF ABATEMENT**. The City is hereby authorized to abate any further ordinance violations of Chapter 6.06 of the City of Bloomington Municipal Code at this Property concerning

deposit of garbage without notice or a hearing in front of this Board while this Order remains in effect.

- E. **THIS ABATEMENT ORDER SHALL CONTINUE FOR TWELVE MONTHS AND EXPIRES ON THE 7th day of September, 2024.**
- F. Public Works shall notify the Owner of this Order and HAND shall post this Order on the Property at the time of abatement.
- G. All appeals from the Board's decision on an abatement request shall be made to courts of competent jurisdiction within ten days.

So Ordered this 2nd day of January, 2024.

Kyla Cox Deckard, President
Board of Public Works
City of Bloomington



Board of Public Works Staff Report

Project/Event: Approve Bonding Agreement with City of
Bloomington Utilities Transmission and Distribution

Staff Representative: Alex Gray

Petitioner/Representative: James Hall, CBU

Date: January 2, 2024

Report: City Code allows for various entities to apply for a bonding agreement with the City of Bloomington. This agreement makes the applicant exempt from the bonding requirements otherwise required by code. City of Bloomington Utilities is seeking to have their bonding agreement renewed for 2023 for their routine work in the City rights of way. This agreement does not apply to large scale construction contracts completed by other contractors.

2024 BONDING AGREEMENT

ENGINEERING DEPARTMENT, CITY OF BLOOMINGTON, INDIANA

THIS AGREEMENT entered into this _____ day of _____, 2024, by and between the City of Bloomington, a Municipal Corporation of Indiana (hereinafter referred to as CITY), and the City of Bloomington Utilities Department (hereinafter referred to as APPLICANT).

RECITALS:

- A. APPLICANT has filed, or soon will file, an application with the CITY for a permit to perform excavation and restoration work on CITY's public ways.
- B. APPLICANT guarantees faithful performance of the work in full compliance with Bloomington Municipal Code Chapter 12.08 Use of the Right of Way and other applicable CITY ordinances, regulations, specifications and standards listed on the CITY Engineering Department's resources website (the "City Standards").
- C. APPLICANT acknowledges that this 2024 Bonding Agreement shall terminate on December 31, 2024.

AGREEMENT:

NOW, THEREFORE, in consideration of the recitals above, the mutual covenants and undertakings of the parties hereto, and for other good and valuable consideration, the receipt and legal sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. **Applicant's Completion and Warranty Obligations.** APPLICANT irrevocably acknowledges its obligation to perform the work in a good, workmanlike, lien-free manner in full compliance with City Standards. APPLICANT further warrants that the work will be free of defects (normal wear and tear excepted) for a period of two (2) years after the work has been completed and finally accepted by CITY, assuming the CITY inspects the work within a reasonable timeframe after being properly notified of its completion.
2. **Applicant's Covenants.** APPLICANT irrevocably represents, warrants and covenants to CITY as follows:
 - (a) **Compliance with City Standards.** That APPLICANT shall fully comply with all City Standards relative to the work, and fully and promptly indemnify and hold harmless CITY, and respond to CITY, for APPLICANT's failure to conform with such obligations.
 - (b) **Completion of the Work.**
 - i. **Diligence.** That after the work is commenced, APPLICANT shall proceed with diligence and expedition and shall promptly complete the work and restore the property to City Standards, so as not to

obstruct the property or public use or travel thereon more than is reasonably necessary.

- ii. **Restoration.** That unless authorized by CITY on the permit, all paving, resurfacing or replacement of street facilities on major or collector streets shall be done in conformance with City Standards as soon as reasonably possible. In winter, a temporary patch must be provided. In all excavations, restoration and pavement surfaces shall be made immediately after backfilling is completed or concrete is cured.

(c) That APPLICANT shall guarantee the materials and workmanship of the work in compliance with City Standards for a period of two (2) years from completion and CITY's acceptance of the work, with reasonable wear and tear excepted.

3. **Repairs.** All responsibility for completion, repair and maintenance of the work shall remain with APPLICANT until all of the work has been completed in full compliance with City Standards, inspected and finally accepted by CITY, and the warranty has expired.
4. **Contractors.** This Agreement does not extend to contractors applying for permit on behalf of APPLICANT.
5. **Binding Agreement.** This Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of the respective parties hereto.
6. **Counterparts.** This Agreement may be signed in any number of counterparts with the same effect as if the signatures upon any counterpart were upon the same instrument. All signed counterparts shall be deemed to be one original.
7. **Severability.** The provisions of this Agreement are severable, and should any provision hereof be void, voidable, unenforceable or invalid, such void, voidable, unenforceable or invalid provision shall not affect the other provisions of this Agreement.
8. **Amendment.** This Agreement may not be modified except by an instrument in writing signed by the parties hereto.
9. **Interpretation.** This Agreement shall be interpreted, construed and enforced according to the substantive laws of the State of Indiana.
10. **Assignment.** APPLICANT may not assign or otherwise convey its rights or delegate its duties under this Agreement without the express written consent of CITY.
11. **No Partnership.** CITY and APPLICANT do not by this Agreement in any way or for any purpose become partners or joint ventures with each other.

APPLICANT

Entity: City of Bloomington Utilities Department

By John Langley, Interim Director

Signature _____

Date Signed _____

BOND WAIVER

The Board of Public Works, having reviewed the Bonding Agreement herein, approves and accepts said Bonding Agreement for the remainder of calendar year 2024. The Board of Public Works hereby finds the APPLICANT to be exempt from the provisions of Bloomington Municipal Code Section 12.08.060.

CITY OF BLOOMINGTON BOARD OF PUBLIC WORKS

Kyla Cox Deckard, President

Date: _____

Elizabeth Karon, Vice President

Date: _____

Jane Kupersmith, Secretary

Date: _____

Andrew Cibor, Director
Engineering Department

Date: _____

Margie Rice
Corporation Counsel

Date: _____



Board of Public Works Staff Report

Project/Event: Approve Bonding Agreement with Indiana University

Staff Representative: Alex Gray

Petitioner/Representative: Trustees of Indiana University; Donald Lukes

Date: January 2, 2024

Report: City Code allows for various entities to apply for a bonding agreement with the City of Bloomington. This agreement makes the applicant exempt from the bonding requirements otherwise required by code. This covers their routine work within City rights of way. Indiana University is seeking approval of their bonding agreement with the City of Bloomington..

2024 BONDING AGREEMENT

ENGINEERING DEPARTMENT, CITY OF BLOOMINGTON, INDIANA

THIS AGREEMENT entered into this _____ day of _____, 2024, by and between the City of Bloomington, a Municipal Corporation of Indiana (hereinafter referred to as CITY), and The Trustees of Indiana University (hereinafter referred to as APPLICANT).

RECITALS:

- A. APPLICANT has filed, or soon will file, an application with the CITY for a permit to perform excavation and restoration work on CITY's public ways.
- B. APPLICANT guarantees faithful performance of the work in full compliance with Bloomington Municipal Code Chapter 12.08 Use of the Right of Way and other applicable CITY ordinances, regulations, specifications and standards listed on the CITY Engineering Department's resources website (the "City Standards").
- C. APPLICANT acknowledges that this 2024 Bonding Agreement shall terminate on December 31, 2024.

AGREEMENT:

NOW, THEREFORE, in consideration of the recitals above, the mutual covenants and undertakings of the parties hereto, and for other good and valuable consideration, the receipt and legal sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

- 1. **Applicant's Completion and Warranty Obligations.** APPLICANT irrevocably acknowledges its obligation to perform the work in a good, workmanlike, lien-free manner in full compliance with City Standards. APPLICANT further warrants that the work will be free of defects (normal wear and tear excepted) for a period of two (2) years after the work has been completed and finally accepted by CITY, assuming the CITY inspects the work within a reasonable timeframe after being properly notified of its completion.
- 2. **Applicant's Covenants.** APPLICANT irrevocably represents, warrants and covenants to CITY as follows:
 - (a) **Compliance with City Standards.** That APPLICANT shall fully comply with all City Standards relative to the work, and fully and promptly indemnify and hold harmless CITY, and respond to CITY, for APPLICANT's failure to conform with such obligations.
 - (b) **Completion of the Work.**
 - i. **Diligence.** That after the work is commenced, APPLICANT shall proceed with diligence and expedition and shall promptly complete the work and restore the property to City Standards, so as not to

obstruct the property or public use or travel thereon more than is reasonably necessary.

- ii. **Restoration.** That unless authorized by CITY on the permit, all paving, resurfacing or replacement of street facilities on major or collector streets shall be done in conformance with City Standards as soon as reasonably possible. In winter, a temporary patch must be provided. In all excavations, restoration and pavement surfaces shall be made immediately after backfilling is completed or concrete is cured.

(c) That APPLICANT shall guarantee the materials and workmanship of the work in compliance with City Standards for a period of two (2) years from completion and CITY's acceptance of the work, with reasonable wear and tear excepted.

3. **Repairs.** All responsibility for completion, repair and maintenance of the work shall remain with APPLICANT until all of the work has been completed in full compliance with City Standards, inspected and finally accepted by CITY, and the warranty has expired.
4. **Contractors.** This Agreement does not extend to contractors applying for permit on behalf of APPLICANT.
5. **Binding Agreement.** This Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of the respective parties hereto.
6. **Counterparts.** This Agreement may be signed in any number of counterparts with the same effect as if the signatures upon any counterpart were upon the same instrument. All signed counterparts shall be deemed to be one original.
7. **Severability.** The provisions of this Agreement are severable, and should any provision hereof be void, voidable, unenforceable or invalid, such void, voidable, unenforceable or invalid provision shall not affect the other provisions of this Agreement.
8. **Amendment.** This Agreement may not be modified except by an instrument in writing signed by the parties hereto.
9. **Interpretation.** This Agreement shall be interpreted, construed and enforced according to the substantive laws of the State of Indiana.
10. **Assignment.** APPLICANT may not assign or otherwise convey its rights or delegate its duties under this Agreement without the express written consent of CITY.
11. **No Partnership.** CITY and APPLICANT do not by this Agreement in any way or for any purpose become partners or joint ventures with each other.

APPLICANT

Entity: The Trustees of Indiana University

By Donald S. Lukes, University Treasurer

Signature _____

Date Signed _____

BOND WAIVER

The Board of Public Works, having reviewed the Bonding Agreement herein, approves and accepts said Bonding Agreement for the remainder of calendar year 2024. The Board of Public Works hereby finds the APPLICANT to be exempt from the provisions of Bloomington Municipal Code Section 12.08.060.

CITY OF BLOOMINGTON BOARD OF PUBLIC WORKS

Kyla Cox Deckard, President

Date: _____

Elizabeth Karon, Vice President

Date: _____

Jane Kupersmith, Secretary

Date: _____

Andrew Cibor, Director
Engineering Department

Date: _____

Margie Rice
Corporation Counsel

Date: _____



Board of Public Works Staff Report

Project/Event: Third Year Extension of ParkMobile Agreement

Petitioner: ParkMobile

Staff Representative: Michelle L. Wahl, Parking Service Director

Meeting Date: January 02, 2024

Attach is the third year extension agreement for the 2019 ParkMobile agreement. The extension will continue to allow consumers to purchase parking meter time through ParkMobile's app at no cost to the City of Bloomington. All parking and convenience fees are paid for by the user of the app.

This is the third and final extension request of this agreement.

Thank you for consideration of this extension.
Michelle L. Wahl, CAPP, Parking Service Director

City of Bloomington Contract and Purchase Justification Form

Vendor: ParkMobile, LLC

Contract Amount: \$0.00

This form should be completed and attached to the contract documents and forwarded to the Legal Department Attorney assigned to your Department. Contracts will not be approved by the Controller if a completed form is not included with the contract documents.

PURCHASE INFORMATION

1. Check the box beside the procurement method used to initiate this procurement: (Attach a quote or bid tabulation if applicable)

<input type="checkbox"/> Request for Quote (RFQ)	<input type="checkbox"/> Request for Proposal (RFP)	<input type="checkbox"/> Sole Source	<input checked="" type="checkbox"/> Not Applicable (NA)
<input type="checkbox"/> Invitation to Bid (ITB)	<input type="checkbox"/> Request for Qualifications (RFQu)	<input type="checkbox"/> Emergency Purchase	

2. List the results of procurement process. Give further explanation where requested. Yes No

# of Submittals:	Yes	No		Yes	No
Met city requirements?	<input type="checkbox"/>	<input type="checkbox"/>	Was the lowest cost selected? (If no, please state below why it was not.) This is a no cost of funding to the City of Bloomington.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Met item or need requirements?	<input type="checkbox"/>	<input type="checkbox"/>			
Was an evaluation team used?	<input type="checkbox"/>	<input type="checkbox"/>			
Was scoring grid used?	<input type="checkbox"/>	<input type="checkbox"/>			
Were vendor presentations requested?	<input type="checkbox"/>	<input type="checkbox"/>			

3. State why this vendor was selected to receive the award and contract:

Attach is the third year extension agreement for the 2019 Park Mobile contract. The extension continues to allow consumers to purchase parking meter time through Parkmobile's app at no cost to the City of Bloomington. All parking and convenience fees are paid for by the user of the app. This is the third and final extension of this agreement.

Print/Type Name

Print/Type Title

Department



Second Contract Extension Agreement

This Second Contract Extension Agreement to the Parking Services Agreement (this "Second Extension") is made by and between Parkmobile, LLC, a Delaware limited liability company, with offices at 1100 Spring St. NW, Ste 200, Atlanta, GA 30309 ("ParkMobile") and City of Bloomington, an Indiana municipality by and through its Board of Public Works, with offices at 401 N. Morton St., Suite 120, Bloomington, IN 47404 ("Client"). This Agreement will become effective as of the last signature date below (the "Second Extension Effective Date").

WHEREAS, ParkMobile and Client entered into a Parking Services Agreement dated January 21, 2023 (the "Agreement"); and

WHEREAS, ParkMobile and Client agreed to extend the Agreement pursuant to that certain First Contract Extension Agreement dated February 8, 2022; and

WHEREAS, ParkMobile and Client desire to again extend the term of the Agreement in accordance with its terms; and

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Recitals. The above recitals are hereby incorporated herein.
2. Extension. Pursuant to Section 4.1 of the Agreement, the Parties agree to extend the Agreement for a one-year renewal term ending on January 21, 2024.
3. Counterparts. This Second Extension may be executed in counterparts, each of which shall be deemed an original, but all of which shall be deemed to constitute one and the same instrument.
4. Entire Agreement. This Second Extension contains the entire agreement of the Parties with respect to the matters set forth herein and may only be changed by an agreement in writing signed by the Parties. All other terms and provisions of the Agreement remain in full force and effect.

IN WITNESS WHEREOF, this Second Extension to the Parking Services Agreement has been executed as of the Second Extension Effective Date.

CITY OF BLOOMINGTON

By: _____
 Name:
 Title:
 Date:

PARKMOBILE, LLC

By: _____
 Name:
 Title:
 Date:



Third Contract Extension Agreement

This Third Contract Extension Agreement to the Parking Services Agreement (this "Third Extension") is made by and between Parkmobile, LLC, a Delaware limited liability company, with offices at 1100 Spring St. NW, Ste 200, Atlanta, GA 30309 ("ParkMobile") and City of Bloomington, an Indiana municipality by and through its Board of Public Works, with offices at 401 N. Morton St., Suite 120, Bloomington, IN 47404 ("Client"). This Agreement will become effective as of the last signature date below (the "Third Extension Effective Date").

WHEREAS, ParkMobile and Client entered into a Parking Services Agreement dated January 21, 2019 (the "Agreement"); and

WHEREAS, ParkMobile and Client agreed to extend the Agreement pursuant to the First Contract Extension Agreement dated February 8, 2022, and the Second Contract Extension Agreement dated February 9, 2023; and

WHEREAS, ParkMobile and Client desire to again extend the term of the Agreement in accordance with its terms; and

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

- 1 Recitals. The above recitals are hereby incorporated herein.
- 2 Extension. Pursuant to Section 4.1 of the Agreement, the Parties agree to extend the Agreement for a one-year renewal term ending on January 21, 2025.
- 3 Counterparts. This Third Extension may be executed in counterparts, each of which shall be deemed an original, but all of which shall be deemed to constitute one and the same instrument.
- 4 Entire Agreement. This Third Extension contains the entire agreement of the Parties with respect to the matters set forth herein and may only be changed by an agreement in writing signed by the Parties. All other terms and provisions of the Agreement remain in full force and affect.

IN WITNESS WHEREOF, this Third Extension to the Parking Services Agreement has been executed as of the Third Extension Effective Date.

CITY OF BLOOMINGTON

PARKMOBILE, LLC

By: _____
Name:
Title:
Date:

By: _____
Name:
Title:
Date:



Board of Public Works Staff Report

Project/Event: Freezefest

Petitioner/Representative: Nicholas Faulkenberg

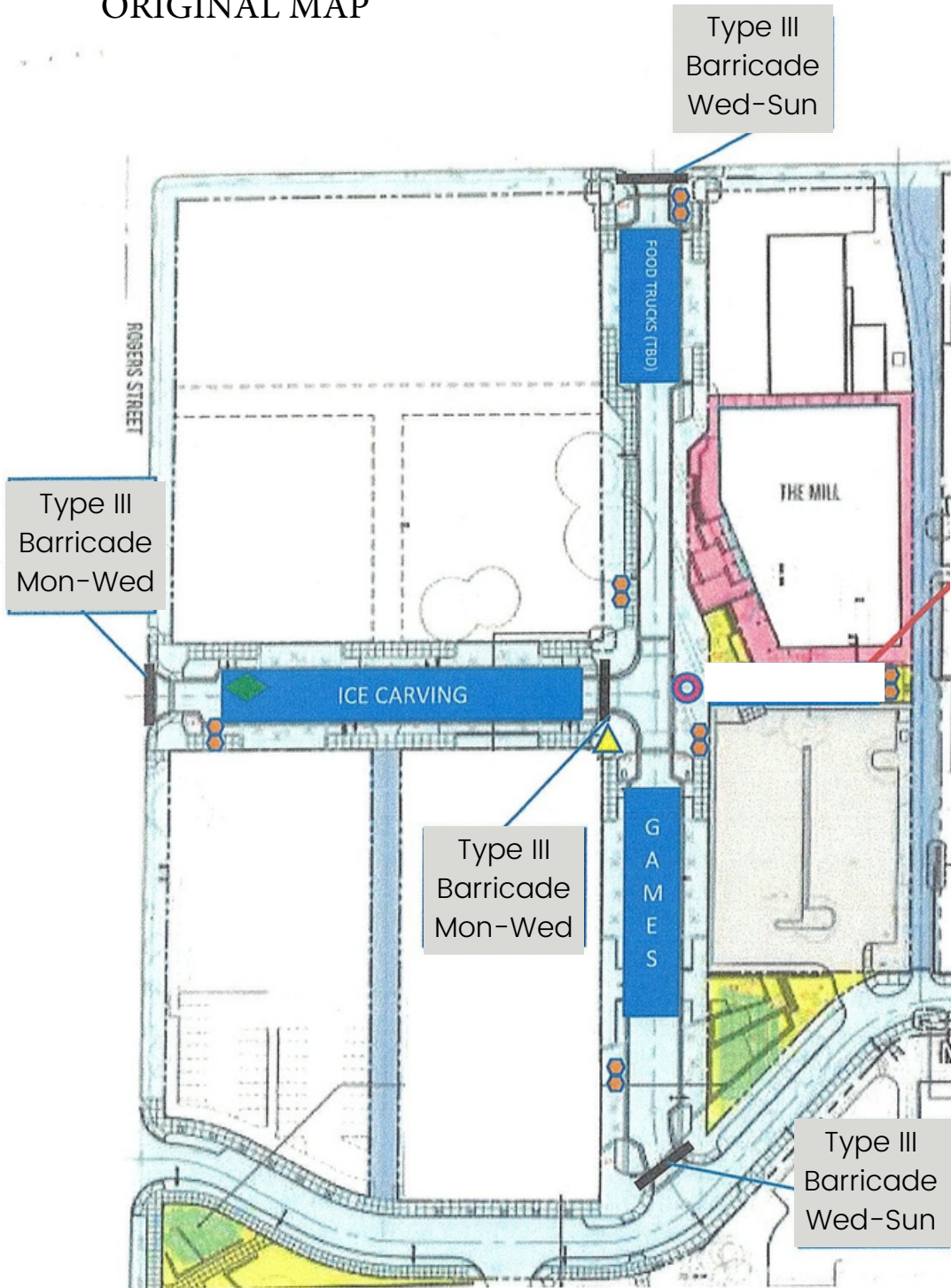
Staff Representative: April Rosenberger

Meeting Date: January 02, 2024

Event Date: January 15-21, 2024

The Freezefest organizers have provided an updated map indicating that the closure of Maker Way should be from Monday, January 15, 2024 through Sunday, January 21, 2024. The previous map indicated the closure only to be from Wednesday, January 17, 2024 through Sunday, January 21, 2024

ORIGINAL MAP



Legend:



= 1 trash and 1 recycling bin

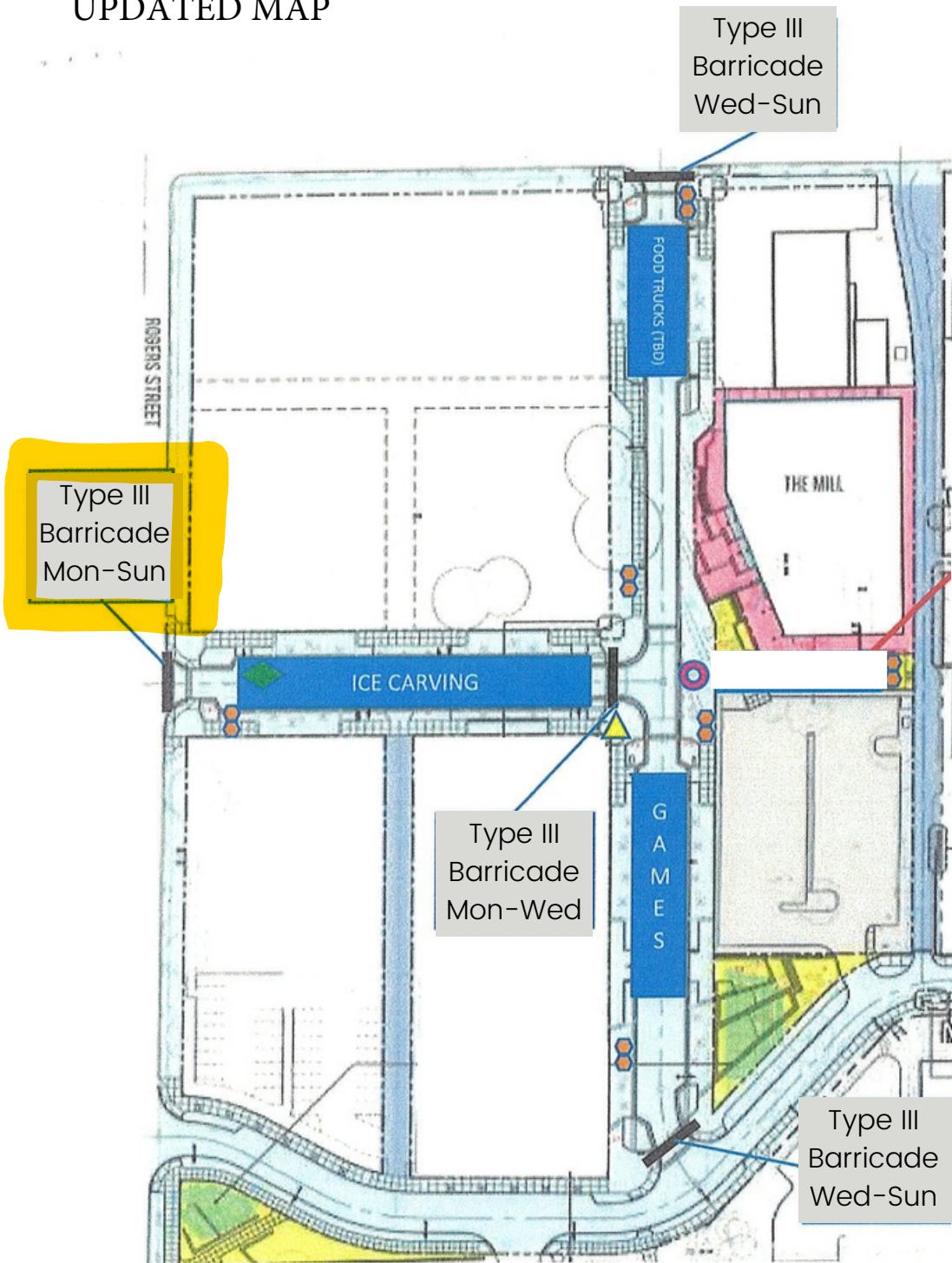


= 2 regular portolets and 1 handicap



= dumpsters for bulky carving waste and bulky recycling items

UPDATED MAP



Legend:



= 1 trash and 1 recycling bin



= 2 regular portolets and 1 handicap



= dumpsters for bulky carving waste and bulky recycling items

**CITY OF BLOOMINGTON
BOARD OF PUBLIC WORKS
RESOLUTION 2023-86**

FREEZEFEST

WHEREAS, the City of Bloomington Board of Public Works (hereinafter referred to as the “City”) is empowered by I.C. 36-9-6-2 to supervise city streets, sidewalks and parking spaces; and

WHEREAS, Nicholas Faulkenberg, Chair of Freezefest, would like to have the City close the following City streets: Maker Way from Rogers Street to Madison Street (Monday, January 15, 2024 at 6 a.m. through Sunday, January 21, 2024 at 11 p.m.) and Madison Street from 10th Street to 11th Street (Wednesday, January 17, 2024 to Sunday, January 21, 2024 at 11:00 p.m.) in order to conduct a Special Event: Freezefest; and,

WHEREAS, Freezefest has agreed to provide the City with a Certificate of Insurance naming the City of Bloomington as additionally insured; and

WHEREAS, the City desires to close said streets in order to support this community function.

NOW, THEREFORE, BE IT RESOLVED that the City approves the Special Event herein described, subject to the following conditions:

1. The City declares that all or a portion of the following City streets: Monday, January 15, 2024 at 6 a.m. through Sunday, January 21, 2024 at 11 p.m.) and Madison Street from 10th Street to 11th Street (Wednesday, January 17, 2024 to Sunday, January 21, 2024 at 11:00 p.m.) shall be temporarily closed to motor vehicles to conduct Freezefest as indicated on the attached Freezefest Map.
2. Freezefest shall work with City of Bloomington Parking Enforcement regarding a requested closure of any parking spaces. Parking Enforcement shall post "No Parking" signs at appropriate parking spaces at least 24 hours in advance of their closure.
3. Freezefest shall be responsible for developing a Maintenance of Traffic Plan to be approved by the Engineering Department. Freezefest shall obtain, and place at Freezefest’s own expense, any security measures which are deemed prudent and necessary by the Police Department which may include, but are not limited to: anti-vehicle barriers for protection; pedestrian barriers; and other engineering controls or personnel as deemed appropriate. Freezefest shall not close the streets until 6:00 a.m. on Monday, January 15, 2024 and shall remove barricades and signage by 11:00 p.m. on Sunday, January 21, 2024.
4. Freezefest shall be responsible for notifying the general public, public transit and public safety agencies of the street closing by notice at least 48 hours in advance.

5. Freezefest shall clean up the affected area before, during and after the event. Clean-up shall include, but not be limited to, removal of all “no parking” signs posted for the event, the removal of any and all food and/or drink, picking up all trash and litter, sweeping up any and all broken glass, and emptying and removing all trash cans/receptacles. Clean-up shall be completed by 11:00 p.m. on Sunday, January 21, 2024.
6. The City declares the above-described and approved event to be a Special Event for purposes of Chapters 4.16, 4.28, and 4.30 of the Bloomington Municipal Code.
7. By granting permission to utilize City property to facilitate this activity, the City also waives the City Noise Ordinance in accordance with Section 14.09.070 of the Bloomington Municipal Code, and therefore amplified sound and music may be played during those events that are part of Freezefest.
8. Freezefest shall be responsible for obtaining any and all required permits as well as being responsible for all legal and financial expenditures.
9. Freezefest shall be responsible for developing, enacting, and enforcing an Emergency Action Plan covering emergencies, including but not limited to weather related emergencies, that may arise during the course of the Freezefest, a copy of which Freezefest agrees to submit to the City at least thirty (30) days prior to the beginning of Freezefest.
10. In the event Freezefest allows mobile food vendor units, as defined by Bloomington Municipal Code Chapter 4.28, and/or pushcarts, as defined by Bloomington Municipal Code Chapter 4.30, to locate inside of their Special Event area, the following additional conditions shall specifically apply to any mobile food vendor units and/or pushcarts:
 - a. Shall obtain a permit from the Monroe County Health Department;
 - b. If a spark, flame or fire is used, an open burn permit from Bloomington Fire Department shall be obtained;
 - c. Shall not attach any portion of their unit or cart to a building, tree, telephone pole, streetlight pole, traffic signal pole or fire hydrant;
 - d. Shall not use any public electrical outlet;
 - e. Shall only be permitted to utilize a private electrical outlet if a licensed electrician has provided written documentation that said outlet is capable of handling the unit or pushcart’s electrical needs;
 - f. Shall serve their food and beverages in containers that do not allow the food or beverages to fall onto the street or sidewalk.
 - g. If utilizing a grill or device that results in a spark, flame or fire shall do the following: locate at least 20 feet away from a building; provide a barrier between the grill or device and the public; not allow the spark or flame to exceed 12 inches in height; and have a fire extinguisher within reaching distance;
 - h. Shall contain an approved grease interceptor or grease trap;
 - i. If a generator is utilized, the generators shall not exceed 70dBa;
 - j. Shall maintain the food storage areas in a manner that are free from rats, mice, flies and other insects or vermin.

11. Freezefest, its officers, directors, agents, employees, members, successors and assigns, do hereby indemnify and hold harmless the City, its Boards, officers, agents and employees from any and all claims, demands, damages, costs, expenses or other liability arising out of bodily injury or property damage (collectively "Claims") which may occur as a result of the use of said property, including, but not limited to, any claim or claims brought by third parties, whether or not sounding in tort or contract.

12. _____, a duly authorized representative of Freezefest, represents that he/she is fully empowered by proper action of Freezefest to bind Freezefest to the terms and conditions set forth in this Resolution and does so bind Freezefest by his/her signature set forth below.

ADOPTED THIS 02nd DAY OF JANUARY, 2024.

BOARD OF PUBLIC WORKS:

FREEZEFEST

Kyla Cox Deckard, President

Signature

Elizabeth Karon, Vice President

Printed Name

Jane Kupersmith, Secretary

Title



Board of Public Works Staff Report

Project/Event:	Parking Spots for Big Woods Renovation
Staff Representative:	Alex Gray
Petitioner/Representative:	Red Truck Bloomington/McGovern Construction
Date:	January 2 nd , 2024

Report: Big Woods at N Grant St and E 6th St is requesting the reservation of 3 parking spots for a dumpster and construction storage while they renovate the back patio of their building. They will not be affecting any travel lanes or sidewalks. The request is for January 8th, 2024 through April 30th, 2024 and they have been working with Parking Services for the reservations and payment of the meters.

AN ADDITION FOR :

BIG WOODS PATIO BAR

120 N GRANT ST,
BLOOMINGTON, IN 47408

DRAWING INDEX

GENERAL

- GC001 GENERAL PLAN INFORMATION
- GC002 GENERAL PLAN INFORMATION
- GC003 GENERAL PLAN INFORMATION
- G1101 LIFE SAFETY PLAN

CIVIL

- AS100 PROPOSED ARCHITECTURAL SITE PLAN

STRUCTURAL

- SB101 FOUNDATION PLANS

ARCHITECTURAL

- AD101 DEMOLITION FLOOR PLANS
- AD201 EXISTING ELEVATIONS
- AE101 PROPOSED FLOOR PLANS
- AE121 PROPOSED ROOF PLAN
- AE201 PROPOSED ELEVATIONS
- AE301 PROPOSED BUILDING SECTION

INTERIOR

- IF101 PROPOSED FURNISHING PLAN

MECHANICAL

- MH101 MECHANICAL PLANS

ELECTRICAL

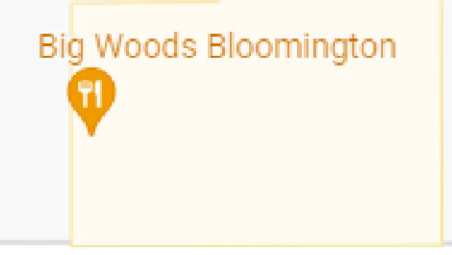
- EL001 ELECTRICAL SYMBOLS & ABBREVIATIONS
- EL101 ELECTRICAL LIGHTING PLANS

THIS PROJECT IS A 702 SQ FT ADDITION TO AN EXISTING SERVICE BAR/ TOILET ROOM SPACE. NO PLUMBING WORK IS INVOLVED AND THE ADDITION IS OVER 10 FEET FROM EXISTING STRUCTURES.

OCTOBER 2023
CONSTRUCTION DOCUMENTS

St → E 6th St → E 6th St → E 6th St → E 6th St

N Grant St
N Grant St
N Grant St
N Grant St

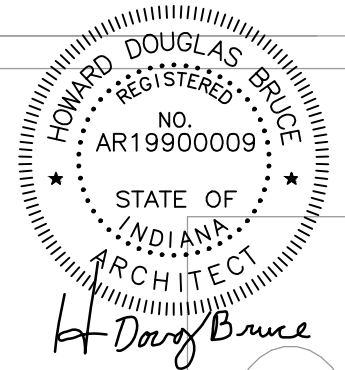


PROJECT LOCATION

A ADDITION FOR :
BIG WOODS PATIO BAR



SEAL



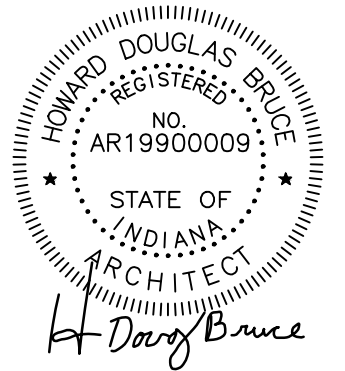
ARCHITECT:

TABOR BRUCE
ARCHITECTURE & DESIGN INC.
1101 S. WALNUT STREET - BLOOMINGTON, IN, 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM



REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST,
BLOOMINGTON, IN 47408



PROJECT NO. 1322
DATE: DECEMBER 13, 2022
DRAWN BY: XX
CHECKED BY: D. BRUCE
SHEET NAME: GENERAL PLAN INFORMATION
SHEET NO.

GC001

GENERAL NOTES & SPECIFICATIONS

DIV. 0 GENERAL

01 Dimensions

- A. INTERIOR PLAN DIMENSIONS ARE TO FACE OF STUD OR CONCRETE (CMU) UNLESS A CENTERLINE/GRIDLINE IS INDICATED, WHICH WILL THEN INDICATE THE DIMENSION IS TO CENTER OF ELEMENT. (COLUMN,WALL,STUD,ETC.).
- B. EXTERIOR PLAN DIMENSIONS ARE TO FACE OF STUD UNLESS A CENTERLINE OR GRIDLINE IS INDICATED, WHICH WILL THEN INDICATE THE DIMENSION IS CENTER OF ELEMENT. SEE EXTERIOR DETAILS FOR ADDITIONAL INFO.
- C. DOOR AND CASED OPENINGS WITHOUT LOCATION DIMENSIONS ARE THREE (3) INCHES FROM FACE OF ADJACENT PARTITION OR CENTERED BETWEEN PARTITIONS (UON).
- D. ALIGNMENT TAKE PRECEDENT OVER DIMENSIONS. VERIFY ALL DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- E. EXTERIOR WINDOWS ARE DIMENSIONED TO WINDOW SIZE AS INDICATED ON WINDOW SCHEDULE. CONTRACTOR SHALL DETERMINE WINDOW ROUGH OPENING REQUIREMENTS.
- F. DO NOT SCALE DRAWINGS - THE CONTRACTORS SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENT. NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
- H. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR INTERPRETATION AND OR CORRECTIONS PRIOR TO INSTALLATION. COST OF CORRECTING WORK BASED ON MISINTERPRETATION BY CONTRACTOR OR UNREPORTED DIMENSIONAL DISCREPANCIES SHALL BE BORNE BY THE CONTRACTOR.
- I. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE ON THE DRAWINGS. LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS. DIMENSIONS GOVERN MEASUREMENTS.

02 Codes

- A. ALL WORK SHALL CONFORM TO APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND REGULATIONS. IN CASE OF ANY CONFLICT WHERE SPECIFIED DOES NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. NOTIFY THE ARCHITECT OF ALL CONFLICTS.

03 Abbreviations and Symbols

- A. THROUGHOUT THE PLAN ARE ABBREVIATIONS AND SYMBOLS WHICH ARE IN COMMON USE. THE LIST OF ABBREVIATIONS AND SYMBOLS PROVIDED IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE OF CONDITIONS OR MATERIALS ACTUALLY USED ON THE PROJECT. THE ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.

04 Elevation Datums

- A. FLOOR PLAN DATUM ELEVATIONS ARE INDICATED ON THE EXTERIOR ELEVATIONS.
- B. ALL ROOF ELEVATIONS ARE REFERENCED FROM DATUM AS INDICATED ON FLOOR PLAN.
- C. CEILING HEIGHTS INDICATED ON THE REFLECTED CEILING HEIGHTS ARE FROM TOP OF SLAB/OR FINISH FLOOR TO FINISH CEILING.

05 Accessibility Standards

- A. SEE ACCESSIBILITY NOTES AND DETAIL SHEETS FOR ACCESSIBILITY REQUIREMENTS.
- B. CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION CALL PUBLIC AND EMPLOYEE AREAS SHALL BE ACCESSIBLE. THE CONTRACTORS SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS, AND/OR FIELD CONDITIONS AND THE ADA/LOCAL REGULATIONS.

DIV. 1 GENERAL CONDITIONS

- 1.1 THE ENTIRE WORK PROVIDED FOR HEREIN IS TO BE CONSTRUCTED AND FINISHED IN EVERY PART IN A GOOD AND SUBSTANTIAL MANNER IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, TO THE FULL INTENT OF THE SAME. ANY WORK REQUIRED BY LAW, BUT WHICH MAY NOT BE SPECIFICALLY MENTIONED BY LAW, SHALL BE DONE BY CONTRACTORS IN ACCORDANCE WITH THE LAWS OF THE COUNTY, DISTRICT, OR STATE UNDER WHICH JURISDICTION MAY COME AND COST SHALL BE BORNE BY CONTRACTORS. ANY SUCH WORK SHALL BE DONE IN CONFORMANCE WITH THE PLAN, BOTH AS TO MANNER AND APPEARANCE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH UBC, TITLE 17, TITLE 24 AND THE AMERICANS WITH DISABILITY ACT (ADA) AND AS REQUIRED BY THE LOCAL GOVERNING AGENCIES.
- 1.2 THE DRAWINGS AND SPECIFICATIONS: THESE DRAWINGS COVER THE FURNISHING AND INSTALLATION OF ALL MATERIALS AND WORK AS CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS (OR IN BOTH WHICH ARE BOUND AND ARE A PART OF THE CONTRACT. CIVIL, LANDSCAPING, INTERIOR DESIGN, KITCHEN AND LAUNDRY, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID AND BEFORE INSTALLATION OF THEIR WORK ANY DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE CONSULTING ENGINEER(S) DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BY WRITTEN REQUEST FOR CLARIFICATION. ANY WORK OMITTED OR INSTALLED IN CONFLICT WITH ARCHITECTURAL DRAWINGS SHALL BE PERFORMED OR CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- 1.3 ALL SITE INFORMATION IS BELIEVED TO BE CORRECT. HOWEVER, IT IS ALL CONTRACTORS RESPONSIBILITY TO VERIFY ALL ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING A BID.
- 1.4 THE CONTRACTORS SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, SERVICES AND TRANSPORTATION REQUIRED TO FULLY CARRY OUT THE INTENTIONS OF THE PLANS AND SPECIFICATIONS AS PART OF THEIR CONTRACTS, WHETHER OR NOT SPECIFICALLY DOCUMENTED. THE CONTRACTORS SHALL PROVIDE EACH ITEM MENTIONED, INDICATED, OR IMPLIED TO ACHIEVE THE INTENDED BUILDING ACCORDING TO THE METHODS OF BEST CONSTRUCTION PRACTICE. THE ARCHITECT SHALL BE THE FINAL JUDGE AS TO THE QUALITY OF THE WORKMANSHIP, AND RESERVES THE RIGHT TO REJECT ANY WORK CONSIDERED INFERIOR.
- 1.5 ALL MANUFACTURED EQUIPMENT AND MATERIALS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, AND ARE TO BE NEW. MANUFACTURER'S RECOMMENDATIONS SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS AS THOUGH INCLUDED HEREIN.
- 1.6 THE ARCHITECT IS AUTHORIZED TO ORDER MINOR CHANGES DURING THE COURSE OF THE WORK WHICH WILL NOT INVOLVE EXTRA COST OR TIME AND WHICH ARE CONSISTENT WITH THE CONTRACT DOCUMENTS.
- 1.7 CONTRACTORS SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL HOURS.
- 1.8 THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS AT THE JOB SITE FOR USE IN MAKING RECORD DRAWINGS ANY REVISIONS SHALL BE MADE THEREON AND SUBMITTED TO THE ARCHITECT AT THE COMPLETION OF THE JOB PER THE PROJECT MANUAL. PROVIDE A COPY FOR THE OWNER PER CONSTRUCTION DOCUMENTS.

1.10 Building Permits

- A. THE OWNER SHALL OBTAIN THE STATE (IF REQUIRED), AND LOCAL BUILDING PERMITS.
- B. SEPARATE PERMITS REQUIRED FOR GRADING OR DEMOLITION, FIRE PROTECTION, UTILITIES WORK, AND AS REQUIRED BY THE LOCAL GOVERNING AGENCIES, SHALL BE OBTAINED BY THE CONTRACTOR.
- C. ALL COSTS FOR PERMITS, OTHER THAN THOSE OBTAINED BY THE OWNER, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.

1.11 Coordination

- A. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION WITH OTHER CONTRACTORS TO ASSURE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, AND THE ACCURATE LOCATION OF STRUCTURAL MEMBERS AND OPENINGS FOR MECHANICAL, ELECTRICAL, STAIRS, ELEVATORS AND MISCELLANEOUS EQUIPMENT.
- B. CONTRACTORS SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATION WITH EQUIPMENT MANUFACTURERS AND VERIFY CONFORMANCE WITH ARCHITECTURAL DOCUMENTATION BEFORE PROCEEDING WITH THE WORK.
- C. THE CONTRACTORS ARE REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
- D. NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED.
- E. ALL COMBUSTIBLES CONSISTING OF BOXES, SCRAP LUMBER, ETC. ON THE CONSTRUCTION SITE SHALL BE CLEANED UP AND DISPOSED OF IN AN APPROVED MANNER ON A DAILY BASIS.

1.12 Testing

- A. THE OWNER AND/OR ARCHITECT RESERVE THE RIGHT TO HAVE TESTS MADE WHEN DEEMED NECESSARY. SHOULD THE ARCHITECT ORDER SPECIAL TESTING OR INSPECTION OF A QUESTIONABLE PART OF THE WORK WHICH REVEALS DEFECTS NOT IN CONFORMITY WITH THE CONTRACT DOCUMENTS, THE TRADE RELATED CONTRACTOR SHALL PAY THE COST OF EACH SPECIAL TESTING OR INSPECTIONS INCLUDING THE ARCHITECT'S EXTRA SERVICES MADE NECESSARY THEREBY, OTHERWISE THE BUCHER SHALL BEAR BUCH COST.
- B. TESTS SHALL BE MADE IN ACCORDANCE WITH RECOGNIZED STANDARDS BY A COMPETENT, INDEPENDENT TESTING LABORATORY. ANY MATERIAL FOUND DEFECTIVE OR NOT IN CONFORMITY WITH SPECIFICATION STANDARDS SHALL BE PROMPTLY REPLACED OR REPAIRED AT THE EXPENSE OF THE CONTRACTOR. SAMPLES FOR TESTING WILL BE FURNISHED BY THE TRADE RELATED CONTRACTOR AND SELECTED REQUIRED AS DIRECTED BY THE ARCHITECT.

1.13 Miscellaneous

- A. THE CONTRACTORS SHALL COMPLY WITH REQUIREMENTS FOR THE STORAGE AND HANDLING OF HAZARDOUS MATERIALS AS REQUIRED BY LOCAL ORDINANCE.
- B. THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR CONSTRUCTION WATER. DUST SHALL BE CONTROLLED BY WATERING AS REQUIRED.
- C. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW IN ITEMS CALLED OUT AS "OR EQUAL," AND IN ACCORDANCE WITH THE PLANS, SPECS, AND NOTES.
- D. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION AND IN COMPLIANCE WITH CONDITIONS OF APPROVAL.
- E. CONTRACTOR SHALL INCLUDE COST FOR ALL REQUIRED STAKING.

1.14 Demolition

- A. ABSOLUTE CARE SHOULD BE EXERCISED IN THE REMOVAL OF EXISTING BUILDING FABRIC. REMOVE ONLY WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION OF THE NEW WORK. IF ANY DOUBT OR QUESTIONS ARE ENCOUNTERED, NOTIFY ARCHITECT.
- B. REFER TO THE STRUCTURAL DRAWINGS FOR FRAMING CONDITIONS THAT MAY REQUIRE DEMOLITION OR REINFORCING WORK PRIOR TO NEW CONSTRUCTION.
- C. PRIOR TO DEMOLITION WORK, REFER TO ALL OTHER DRAWINGS TO THOROUGHLY BECOME FAMILIAR WITH ALL CONSTRUCTION WORK TO MINIMIZE DEMOLITION.
- D. REMOVE ALL EXISTING PLUMBING PIPING THAT IS EXPOSED OR ENCOUNTERED.
- E. REMOVE ALL EXPOSED PLUMBING PIPING AFTER REMOVING PLUMBING FIXTURES. CAP BELOW WALL OR FLOOR SURFACE IF COMPLETE REMOVAL IS NOT FEASIBLE.
- F. ALL PLASTER AND INSULATION WRAP AROUND PIPING AND DUCTWORK IS TO BE TESTED FOR THE PRESENCE OF ASBESTOS. IF ASBESTOS IS FOUND TO BE PRESENT, ABATEMENT AND DISPOSAL IS TO CONFORM WITH LOCAL, STATE, AND FEDERAL GUIDELINES.
- G. REFER TO THE ARCHITECTURAL DRAWINGS FOR NEW WORK THAT MAY REQUIRE DEMOLITION NOT SHOWN ON THE DEMOLITION PLANS.
- H. VERIFY ALL STRUCTURAL CONDITIONS PRIOR TO REMOVING ANY WALLS
- I. DEMOLITION CONTRACTOR TO CAREFULLY LEAVE STRUCTURE THAT REMAINS IN GOOD CONDITION, AND TO USE TEMPORARY SUPPORT AS NEEDED TO INSURE STRUCTURE STABILITY.
- J. DEMOLITION CONTRACTOR SHALL BE HELD STRICTLY RESPONSIBLE TO ABIDE BY ALL RULES, REGULATIONS AND ORDINANCES AS DICTATED BY THE CITY OF PROJECT AND OR ANY OTHER GOVERNING AGENCY.
- K. DEMOLITION PROCEDURES AND REMOVAL OF REFUSE SHALL OCCUR IN AN ORDERLY FASHION. NO STORAGE OF REFUSE SHALL OCCUR ON SITE. NO SALE OF SCRAP OR REFUSE SHALL OCCUR ON SITE. NO BURNING OR REFUSE SHALL BE PERMITTED. NO USE OF EXPLOSIVES SHALL BE PERMITTED.
- L. DEMOLITION CONTRACTOR SHALL BE HELD RESPONSIBLE TO VERIFY LOCATION OF ALL UTILITIES AND STRUCTURAL CONDITIONS. CONTRACTOR ASSUMES ALL RESPONSIBILITIES AND LIABILITIES ASSOCIATED WITH REGARD TO DEMOLITION PRACTICES AND ASSUMES SUCH.
- M. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR SAFETY AND SECURITY OF THE ENTIRE SITE AND FACILITY DURING PROCESS OF DEMOLITION AND SHALL OBTAIN INSURANCE'S PROTECTING THE OWNER, DESIGN BUILDER AND ARCHITECT.
- N. DEMOLITION CONTRACTOR TO TAKE ALL STEPS NECESSARY TO PREVENT POLLUTION OF AIR, WATER AND SOILS, AND SHALL:
 - 1. COMPLY WITH ENVIRONMENTAL POLLUTION REGULATIONS.
 - 2. NO STORAGE OF CONTAMINANTS ARE PERMITTED ON SITE.
 - 3. DEMOLITION CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT ACCIDENTS DUE TO PHYSICAL HAZARDS (i.e., BARRICADES, WARNING LIGHTS, SIGNS AS REQUIRED). CONTRACTOR IS REQUIRED TO INSURE PUBLIC SAFETY DURING THE DEMOLITION PROCESS AND ASSUME ALL LIABILITIES FOR SUCH.
 - 4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO INSURE THAT ITEMS SCHEDULED OR NOTED TO REMAIN, STAY INTACT AND UNDAMAGED.
 - 5. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION

OF THE ENTIRE BUILDING FACILITIES STRUCTURE AND COORDINATE EFFORTS WITH THE GENERAL CONTRACTOR. DEMOLITION CONTRACTOR SHALL VERIFY ALL CONDITIONS AND SCOPE OF WORK AS DESCRIBED HERE IN. THESE DOCUMENTS ARE TO BE UTILIZED FOR INTENT ONLY. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR THE FULL EXTENT OF THE DEMOLITION.

- 6. DRAIN, PURGE OR OTHERWISE REMOVE, COLLECT AND LEGALLY DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER HAZARDOUS MATERIALS AND WASTE BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.

7. CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO THE START OF DEMOLITION.

O. PROTECT EXISTING FINISHES IN EXISTING AREAS TO REMAIN.

Div. 2 SITEWORK

- 2.1 Site Clearing
 - A. SECTION INCLUDES REMOVAL OF SURFACE DEBRIS, TREES, SHRUBS, PLANTLIFE AND TOPSOIL EXCAVATION.
 - B. LOCATE, IDENTIFY AND PROTECT UTILITIES.
 - C. PROVIDE PROTECTION OF FEATURES DESIGNATED TO REMAIN AS FINAL LANDSCAPING.
 - D. PROVIDE PROTECTION OF BENCH MARKS, SURVEY CONTROL POINTS, AND EXISTING STRUCTURES FROM DAMAGE OR DISPLACEMENT.
 - E. CLEAR AREAS REQUIRED FOR ACCESS TO SITE AND EXECUTION OF WORK.
 - F. WHERE TREES ARE REMOVED REMOVE STUMPS AND ROOT SYSTEMS TO A DEPTH OF 18", APPLY HERBICIDE TO REMAINS OF STUMPS TO INHIBIT GROWTH, PER MANUFACTURER AND IN STRICT COMPLIANCE W/ EPA.
 - G. REMOVE DEBRIS, ROCK AND EXTRACTED PLANT LIFE FROM SITE.
 - H. STOCKPILE TOPSOIL IN AREA DESIGNATED ON SITE TO A MAXIMUM DEPTH OF 8" AND PROTECT FROM EROSION.
- 1. REMOVE EXCESS TOPSOIL NOT INTENDED FOR REUSE FROM A SITE.
- 2.2 SEE CIVIL DRAWINGS FOR LOCATION OF BUILDING WORKING POINTS, ROUGH GRADING, ON-SITE UTILITIES, SITE IMPROVEMENTS, SITE RETAINING WALLS & SPECIFIC GENERAL NOTES. THE SOIL REPORT AND CIVIL DRAWINGS SHALL OVERRIDE CONFLICTS WITH SITEWORK NOTED HEREIN.
- 2.3 Landscape Grading
 - A. SEE LANDSCAPE DRAWINGS FOR FINAL FINISH GRADES, PLANTING AND IRRIGATION.
 - B. SECTION INCLUDES FINAL GRADE TOPSOIL FOR FINISH LANDSCAPING.
 - C. PREPARE SUBGRADE TO RECEIVE TOPSOIL.
 - D. PLACE TOPSOIL IN ALL AREAS DISTURBED BY CONSTRUCTION TO A NOMINAL DEPTH OF 4". PLACE TOPSOIL DURING DRY WEATHER.
 - E. ROLL PLACED TOPSOIL.
 - F. MANUALLY SPREAD TOPSOIL CLOSE TO BUILDING TO PREVENT DAMAGE.
- 2.4 EXCAVATION/GRADING REQUIREMENTS
 - A. THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SHALL BE NOTIFIED BY THE GRADING CONTRACTOR THAT GRADING IS TO COMMENCE AND MAKE ALL NECESSARY ARRANGEMENTS FOR FIELD INSPECTION.
 - B. ALL BUILDING AREAS SHALL BE EXCAVATED AND RECOMPACTED IN ACCORDANCE WITH THE SOILS REPORT.
 - C. SOIL EXCAVATION AND RECOMPACTION SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED SOILS ENGINEER. ALL DENSITIES, MOISTURE CONTENT AND TESTING SHALL BE APPROVED BY THE PROJECT SOILS ENGINEER PRIOR TO APPLYING THE FINISH SURFACES INDICATED ON THE DRAWINGS. ONE COPY OF ALL CERTIFICATION AND TESTS SHALL BE SENT TO THE ARCHITECT.
 - D. ALL FILL AND BACKFILL MATERIAL SHALL BE APPROVED BY THE SOILS ENGINEER.
 - E. FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE PROJECT SOILS ENGINEER BEFORE THE REINFORCING STEEL OR FRAMES ARE SET.
 - F. ALL GRADING SHALL CONFORM TO LOCAL ORDINANCES AND STANDARDS.
- G. GRADING CONTRACTOR SHALL PROVIDE BARRICADES, LIGHTS, SIGNS AND SAFETY PRECAUTIONS REQUIRED BY GOVERNING CODES AND ORDINANCES.
- H. GRADING CONTRACTOR SHALL PROVIDE DUST CONTROL. GRADING CONTRACTOR SHALL COMPLY WITH CITY STANDARDS AND CONDITIONS OF APPROVAL.

- I. A THOROUGH SEARCH SHALL BE MADE FOR UNDERGROUND UTILITIES AND STRUCTURES, ETC. WITHIN THE BUILDING SITE. UTILITY CONTRACTOR SHALL REMOVE OR CAP OFF ALL SUCH ITEMS IN ACCORDANCE WITH THE ARCHITECT'S AND/OR ENGINEER(S) DRAWINGS PERTAINING TO EACH DISCOVERY. IN ALL CASES OF THIS TYPE, THE ARCHITECT SHALL BE NOTIFIED BEFORE THE WORK PROCEEDS, EXCEPTING THAT IN ANY EMERGENCY AFFECTING SAFETY OF LIFE, OR OF ADJOINING PROPERTY, THE UTILITY CONTRACTOR SHALL ACT AT ONCE WITHOUT SUCH INSTRUCTIONS TO PREVENT SUCH THREATENED INJURY OR LOSS.
- J. DAMAGE TO ANY ADJACENT PROPERTY, STREETS AND THE LIKE CAUSED BY OPERATIONS OF THIS SECTION SHALL BE RESTORED TO ORIGINAL CONDITION WITHOUT ADDITIONAL COST OR LIABILITY TO THE OWNER.
- K. EXCAVATE TO EXACT DIMENSIONS, LEVELS, AND ALIGNMENT SHOWN ON THE DRAWINGS. REMOVE ALL MATERIALS ENCOUNTERED.
- L. ALL BACKFILL SHALL BE PLACED IN ACCORDANCE TO GRADING RECOMMENDATIONS.

- M. COMPACTATION BY FLOODING OR JETTING IS STRICTLY PROHIBITED.
- N. ALL FILL MATERIALS SHALL BE PLACED, SPREAD, OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN WORK IS INTERRUPTED BY HEAVY RAINS, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL TESTS BY THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL ARE AS SPECIFIED.
- O. REMOVE ALL WATER, INCLUDING RAINFALL, ENCOUNTERED DURING THE TRENCHING AND SUBSTRUCTURE WORK, TO AN APPROVED LOCATION BY THE USE OF PUMPS, DRAINS, AND OTHER APPROVED METHODS.
- P. REPORT ANY UNUSUAL SOIL CONDITIONS OR VARIATIONS IN THE SOIL TO THE SOILS ENGINEER IMMEDIATELY FOR CONSULTATION AND/OR DIRECTIONS.
- Q. ALL AREAS SHALL BE GRADED AND FILLED AS SHOWN ON THE DRAWING TO A TOLERANCE OF PLUS OR MINUS 1/10TH OF ONE FOOT.
- R. FINISHED GRADE SHALL BE CLEAN, RAKED, LEVEL, FREE OF ROCKS, VEGETATION AND BUILDING DEBRIS. GRADE SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM BUILDING, WALKS, ETC. FOR A MINIMUM OF TEN FEET AND TO THE NATURAL GRADE. MAKE ADJUSTMENTS REQUIRED TO PROVIDE PROPER SITE DRAINAGE.
- S. SECTION INCLUDES BACKFILLING FOR BUILDING FOUNDATIONS AND SLAB ON GRADE AND AGGREGATE BASE COURSE UNDER FOOTING.

- T. REFERENCE STANDARDS: ASTM D1556, ASTM D1267, ASTM D2922, AND ASTM D3017.
- U. AGGREGATE BASE COURSE: NO. 57 STONE.
- V. MAINTAIN AND PROTECT ABOVE AND BELOW GRADE UTILITIES.
- W. DO NOT INTERFERE W/45 DEGREE BEARING SPLAY OF FOUNDATION.
- X. KEEP ALL EXCAVATIONS FREE FROM WATER AT ALL TIMES. PROVIDE PUMPS, HOSES AND DRAINAGE LINES FOR THIS PURPOSE. WATER REMOVED SHALL DRAIN AWAY FROM SITE, BUT NOT ONTO PRIVATELY OWNED ADJACENT PROPERTIES.
- Y. REMOVE LUMPED SUBSOIL, BOULDERS AND ROCK UP TO 1/3 CU. YD.
- Z. NOTIFY ARCHITECT OF UNEXPECTED SUBSURFACE CONDITIONS AND DISCONTINUE WORK IN AREA UNTIL NOTIFIED TO RESUME WORK.

- 1. PROVIDE COMPACTION TESTING IN ACCORDANCE W/ ASTM D698. BACKFILL BENEATH FLOOR SLABS SHALL BE COMPACTED TO 95%OF THE SOILS MAXIMUM DRY DENSITY. (STANDARD PROCTOR).
- 2. PROTECT EXCAVATIONS TO PREVENT CAVE-IN AND TO KEEP BOTTOM OF EXCAVATIONS ADJACENT TO AND BENEATH FOUNDATIONS FROM FREEZING.
- 3. RESHAPE/RE-COMPACT FILLS SUBJECTED TO VEHICULAR TRAFFIC DURING CONSTRUCTION.

2.4 Termite Control

- A. SECTION INCLUDES SOIL TREATMENT FOR TERMITE CONTROL BELOW GRADE. AT INTERIOR AND EXTERIOR FOUNDATION PERIMETER.
- B. CONFORM TO APPLICABLE CODE FOR AUTHORITY TO USE TOXICANT CHEMICALS IN ACCORDANCE W/ EPA.
- C. TOXICANT CHEMICAL SHALL BE EPA APPROVED; SYNTHETICALLY COLOR DYED TO PERMIT VISUAL IDENTIFICATION OF TREATED SOIL.
- D. APPLY TOXICANT IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIONS. APPLY EXTRA TREATMENT TO STRUCTURE PENETRATIONS SURFACES SUCH AS PIPES, OR DUCTS, AND SOIL PENETRATIONS SUCH AS GROUNDING RODS OR POSTS.
- E. PROVIDE 5-YEAR WARRANTY. WARRANTY INCLUDE COVERAGE FOR DAMAGE AND REPAIRS TO BUILDING AND BUILDING CONTENTS CAUSED BY TERMITES. REPAIR DAMAGE, RE-TREAT WHERE NECESSARY.
- F. LOCATIONS OF TREATMENT: UNDER SLABS--ON-GRADE, CRAWL SPACES AND BOTH SIDES OF FOUNDATION WALLS.
- G. DO NOT PERMIT SOIL GRADING OVER TREATED WORK.

2.5 Site Utilities

- A. THE CONTRACTORS ARE REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES AT THE SITE SHOWN OR NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
- B. THE UTILITY CONTRACTOR SHALL LOCATE ALL UTILITY CONNECTIONS WITHIN 5 FT. OF THE BUILDING LINE, AND PROTECT UNTIL ALL CONNECTIONS AND TESTING ARE COMPLETED. UTILITY CONTRACTOR SHALL TAG ALL CONNECTION LOCATIONS WHERE FINISH SURFACES ARE PERMANENT. (I.E. CONCRETE, A.C., PAVING ETC).
- C. ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.

2.6 Sidewalks

- A. ALL CONCRETE SIDEWALKS SHALL SLOPE TO DRAIN AWAY FROM DOORS AND FACE OF BUILDING.
- B. ALL CONCRETE WALKS SHALL HAVE A MEDIUM BROOM FINISH U.O.N. ON THE DWGS.
- C. SEE CIVIL AND LANDSCAPE DRAWINGS FOR LAYOUT CONFLICTS IN DIMENSIONS OF SITE PAVING.

2.7 CONCRETE

- 3.1 SEE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL CONCRETE AND REQUIRED REINFORCING.
- 3.2 SEE FOUNDATION PLAN FOR SLAB DIMENSIONS, DEPRESSIONS.
- 3.3 NO FLOORS TO BE POURED UNTIL ALL ELECTRICAL AND MECHANICAL INSTALLATIONS HAVE BEEN APPROVED BY THE ARCHITECTS AND GOVERNING AGENCIES.

3.4 Concrete Finishing

- A. TROWEL AND RE-TROWEL SLAB FOR SMOOTH FINISH WITH NO TROWEL MARKS SHOWING WHEREVER CONCRETE FLOOR IS EXPOSED.
- B. INTERIOR CONCRETE SLABS SHALL BE POURED LEVEL (UNLESS OTHERWISE INDICATED)-- 1/8" INCH TOLERANCE ON A 10 FOOT EDGE IN ANY GIVEN DIRECTION.
- C. THE FLOOR ADJACENT TO A DOORWAY SHALL BE LEVEL FOR A DISTANCE OF 5 FT FROM THE DOOR IN THE DIRECTION OF THE ROOF SWING AND SHALL EXTEND NOT LESS THAN 12 IN. BEYOND EACH SIDE OF THE DOOR AND SHALL BE NOT MORE THAN 1/2 IN. BELOW LEVEL OF DOORWAY THRESHOLD.
- D. COVER ALL CONCRETE SLAB SURFACES WITH CURING PAPER BEFORE POURING ADJACENT CONCRETE SLABS OR ASPHALTIC CONCRETE PAVING. CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SPLASHING OF FRESH CONCRETE.
- E. DEPRESS CONCRETE FLOOR SLABS AS REQUIRED FOR FLOOR FINISH MATERIALS AND AS NOTED ON ARCHITECTURAL/AND/OR STRUCTURAL DETAILS.
- F. COVER ALL CONCRETE SLAB SURFACES WITH CURING PAPER BEFORE POURING ADJACENT CONCRETE SLABS OR ASPHALTIC CONCRETE PAVING. CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SPLASHING OF FRESH CONCRETE.

- 3.5 COVER ALL CONCRETE SLAB SURFACES WITH CURING PAPER BEFORE POURING ADJACENT CONCRETE SLABS OR ASPHALTIC CONCRETE PAVING. CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SPLASHING OF FRESH CONCRETE.
- 3.6 PROVIDE CONCRETE FLOOR SLABS AS REQUIRED FOR FLOOR FINISH MATERIALS AND AS NOTED ON ARCHITECTURAL/AND/OR STRUCTURAL DETAILS.
- 3.7 PROVIDE 4000 PSI @ 28 DAYS CONCRETE FOR ALL EQUIPMENT PADS AND FENCE POST ANCHORAGE AND ALL EXPOSED SITE CONCRETE.

Div. 4 MASONRY

- REFER TO STRUCTURAL DRAWINGS FOR LOAD BEARING UNIT MASONRY, MASONRY REINFORCEMENT, MORTAR AND GROUT.
- 1. VENEER MASONRY SYSTEM SHALL BE 4" BRICK VENEER AND SHALL COMPLY W/ ASTM C216, GRADE: SW. TYPE: FBS, STANDARD MODULAR SIZE, COLOR(S) AND TEXTURE(S) AS SELECTED BY THE OWNER FROM ALLOWANCE RANGE OF \$250.00 PER 1000 COST OF MATERIAL DELIVERED TO SITE. MINIMUM OF (2) COLORS SELECTED.
- 2. PROVIDE UNIT MASONRY SAMPLES SHOWING FULL COLOR AND TEXTURE RANGES AVAILABLE FOR EACH DIFFERENT MASONRY UNIT REQUIRED.
- 3. MORTAR FOR UNIT MASONRY SHALL COMPLY W/ ASTM C 270, PROPORTION SPECIFICATION, TYPE S.
- 4. GROUT FOR UNIT MASONRY SHALL COMPLY W/ ASTM C 476.

- 4.6 ADJUSTABLE MASONRY - VENEER ANCHORS: PROVIDE 2-PIECE ASSEMBLIES ALLOWING VERTICAL OR HORIZONTAL DIFFERENTIAL MOVEMENT BETWEEN VENEER AND BEARING WALL SUBSTRATE. VENEER ANCHORS SHALL BE HOT DIP GALVANIZED CARBON STEEL WIRE ASTM A 82; WITH ASTM A 153, CLASS B-2 COATING FOR WIRE TIES AND ANCHORS IN EXTERIOR WALLS.
- 4.7 ADJUSTABLE ANCHORS SHALL BE AS MANUFACTURED BY DURAWALL OR EQUAL.

Div. 5 METALS

- 5.1 STEEL PLATES, SHAPES AND BARS SHALL BE SHOP PRIMED AND CONFORM TO ASTM A36.
- 5.2 EXPOSED METAL SURFACES SHALL BE FREE OF BLEMISHES AND ROUGHNESSES.
- 5.3 SELECT FASTENERS FOR TYPE, GRADE AND CLASS REQUIRED.
- 5.4 PREVENTION OF ELECTROLYSIS: WHERE THE CONTACT OF DISSIMILAR METAL MAY CAUSE ELECTROLYSIS AND WHERE ALUMINUM WILL CONTACT CONCRETE, MORTAR, OR PLASTER, THE CONTACT SURFACE OF THE METAL SHALL BE SEPARATED USING ONE HEAVY COAT OF ALUMINUM PIGMENTED ASPHALT PAINT ON EACH SURFACE.
- 5.5 SHOP COAT ALL MISCELLANEOUS STEEL WITH RUST INHIBITIVE PRIMER.

Div. 6 WOOD AND PLASTICS

- 6.1 Framing
 - A. THE FRAMING CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOLTS, NAILS, FRAMING CLIPS, WASHERS, PLATES, HANGERS, ETC. FOR A COMPLETE INSTALLATION WHETHER OR NOT SPECIFIED OR INDICATED ON THE DRAWINGS.
 - B. IN ADDITION TO PROVIDING ALL LABOR, LUMBER, HARDWARE, & OTHER MATERIALS REQUIRED TO COMPLETE FRAMING TO PLANS & SPECIFICATIONS CONTRACTOR TO INSTALL:
 - 1. WOOD BACKING FOR ALL TOWEL BARS, TOILET PAPER HOLDERS, GRAB BARS, & STAIRWAY HAND RAILS AND MEDICINE CABINETS.
 - 2. FURNISH AND INSTALL ALL REQUIRED EAVE AND GABLE VENTS.
 - 3. ALL ATTIC AND BATHTUB ACCESS PANELS.
 - 4. COORDINATE WITH PLUMBER TO GET BATHTUBS INSTALLED IN BATHROOMS DURING FRAMING PROCESS. FURTHERMORE FRAMER TO BE RESPONSIBLE TO FURRING IN ALL TUBS AS NECESSARY.
 - 5. MASTIC AND CAULK PER REQUIREMENTS OF TITLE 24 RELATED TO FRAMEWORK.
 - 6. INSTALL ALL SOFFITS
 - 7. FURNISH AND INSTALL ALL FIRE-BLOCKING.
 - 8. FURNISH AND INSTALL ALL REGISTER AND OTHER BLOCKING AS REQUIRED FOR THE SATISFACTORY COMPLETION OF HVAC CONTRACTOR'S WORK.
- 6.2 Wood Blocking
 - A. PROVIDE WOOD BLOCKING FOR MILLWORK, WOOD WINDOWS AND DOOR JAMBS.
- 6.3 ALL SILLS SHALL BE PRESSURE TREATED WHITE PINE.
- 6.4 SCARF JOINT ALL EXPOSED CONTINUOUS WOOD TRIM MEMBERS 45 DEGREES. DO NOT BUTT JOINT.

6.5 WOOD STUDS SHALL BE 2x4 16" O.C. UNLESS NOTED OTHERWISE.

6.6 Firestopping

- A. SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER AND SHALL BE USED IN SPECIFIC LOCATIONS AS FOLLOWS:
 - 1. IN EXTERIOR OR INTERIOR STUD WALLS, AT CEILINGS, AND FLOOR LEVELS.
 - 2. IN ALL STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, SO THAT THE MAXIMUM DIMENSION OF ANY CONCEALED SPACE IS NOT OVER 10 FEET.
 - 3. BETWEEN STUDS ALONG IN LINE WITH RUN OF STAIRS ADJOINING STUD WALLS AND PARTITIONS.
 - 4. AROUND TOP, BOTTOM, SIDES AND ENDS OF SLIDING DOOR POCKETS.
 - 5. IN SPACES BETWEEN CHIMNEYS AND WOOD FRAMING, LOOSE NON-COMBUSTIBLE MATERIAL SHALL BE PLACED IN NON-COMBUSTIBLE SUPPORTS OR A METAL COLLAR TIGHTLY FITTED TO THE CHIMNEY AND NAILED TO THE WOOD FRAMING MAY BE USED.
 - 6. ANY OTHER LOCATIONS NOT SPECIFICALLY MENTIONED ABOVE, SUCH AS HOLES FOR PIPES, SHAKING, BEHIND FURRING STRIPS AND SIMILAR PLACES WHICH COULD AFFORD A PASSAGE FOR FLAMES, FIRESTOPPS WHEN OF WOOD, SHALL BE 2-INCH NOMINAL THICKNESS. IF THE WIDTH OF THE OPENING IS SUCH THAT MORE THAN ONE PIECE OF LUMBER IS NECESSARY THERE SHALL BE TWO THICKNESSES OF 3/4-INCH PLYWOOD. FIRESTOPPS MAY ALSO BE OF GYPSUM BOARD, GEMENT, MINERAL WOOL OR OTHER APPROVED NON-COMBUSTIBLE MATERIALS, SECURELY FASTENED IN PLACE. (MINERAL WOOL ONLY IS TO BE USED IN DOUBLE FRAMED COMMON WALLS).

6.7 Fasteners

- A. NAILS: GALVANIZED WIRE NAILS
- B. SCREWS: CADMIUM PLATED, GALVANIZED AND BRASS.
- C. BOLTS: GALVANIZED

6.8 PROVIDE NAILERS, NAILING STRIPS, AND GROUNDS AS NECESSARY AND RIGIDLY SECURE IN PLACE FOR ATTACHMENT OF TRIM, FINISH, AND OTHER WORK. (ALL SHALL BE FIRE RETARDANT TREATED.)

6.9 DIMENSIONAL LUMBER FOR LIGHT FRAMING: PROVIDE "STANDARD" GRADE (2" TO 4" NOM. THICKNESS, 2" TO 4" NOM. WIDTH, 10'-0" AND SHORTER), ANY SPECIES.

6.10 FOR STRUCTURAL FRAMING AND IN WIDTHS GREATER THAN 5" NOM. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING GRADE AND SPECIES COMPLYING WITH THE FOLLOWING STRESS RATINGS:

- A. ANY SPECIES AND GRADE COMPLIES WITH THE FOLLOWING REQUIREMENTS FOR SPECIES GROUP AS DEFINED IN TABLE 8.1a OF NFPA NATIONAL DESIGN SPECIFICATION, FOR EXTERME FIBER STRESS IN BENDING "Fb" FOR SINGLE REPETITIVE MEMBERS, AND FOR MODULUS OF ELASTICITY "E":
 - 1. "Fb" OF 1200 PSI FOR SINGLE MEMBER USE AND OF 1400 PSI FOR REPETITIVE MEMBER USE, AND "E" OF 1,700,000 PSI; "Fb" PARALLEL TO GRAIN 1250/1450 PSI; "Fc" PERPENDICULAR TO GRAIN 385 PSI.
- 6.11 PLYWOOD SHALL CONFORM WITH PS-1 AND BE OF TYPE AND THICKNESS AS INDICATED.
- 6.12 PROVIDE DRESSED LUMBER S4S, UNLESS OTHERWISE INDICATED.

Div. 7 THERMAL AND MOISTURE

- 7.1 Waterproofing
 - A. CONTRACTOR TO WATERPROOF/FLASH AT ALL EXTERIOR SURFACES.
 - B. KERF CUT FLASH WITH BITUTHENE ALL BEAMS THAT PENETRATE EXTERIOR WALLS.
- 7.2 Building Insulation
 - A. SEE A WALL SECTIONS AND DETAILS FOR BUILDING THERMAL INSULATION.
 - B. ALL PUBLIC AREA RESTROOMS AND GUEST BATHROOM WALLS AND CEILINGS SHALL BE INSULATED WITH SOUND INSULATION BATTS.
 - C. INSULATE THE FOLLOWING: EXTERIOR WALLS, BETWEEN JAMBS AND FRAMING, CEILINGS WITH COLD AREAS ABOVE ATTIC ACCESS PANEL, KNEE WALLS ADJACENT TO HEATED SPACE, BETWEEN COMBINATION RAFTER AND CEILING JOIST.
- 7.3 Roofing
 - A. CONTRACTOR TO VERIFY THAT ROOF ELEVATIONS SHOWN ON PLANS PROVIDE POSITIVE ROOF DRAINAGE AND THAT THEY CONFORM TO MINIMUM DRAINAGE STANDARDS PRIOR TO ROOFING.
- 7.4 Weatherproofing
 - A. ALL EXTERIOR WALL OPENINGS, FLASHING, COUNTERFLASHING AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN SUCH A MANNER TO MAKE THEM WEATHERPROOF. THE JUNCTION OF THE ROOF AND VERTICAL SURFACES SHALL BE FLASHED AND CORNER-FLASHED IN A MANNER TO MAKE THEM WATERPROOF.
 - B. ALL OPEN JOINTS IN THE BUILDING EXTERIOR AROUND CONDITIONED SPACES SHALL BE SEALED, CALKED, GASKETED, OR WATER STRIPPED TO ELIMINATE AIR LEAKAGE.
 - C. PROVIDE A MINIMUM OF 15 LB. FELT AS MOISTURE PROTECTION BEHIND EXTERIOR FINISHES AND TRIM. FELTS TO BE NON-ORGANIC TO ELIMINATE AIR LEAKAGE.
 - D. ALL FLASHING, COUNTER-FLASHING, AND COPING WHEN OF METAL SHALL BE NOT LESS THAN NO. 24 GAUGE GALVANIZED IRON (U.N.O.).
 - E. FLASH AND COUNTERFLASH ALL ROOF TO WALL CONDITIONS. FLASH AND CAULK WOOD BEAMS AND OUTLOOKERS PROJECTING THROUGH EXTERIOR WALLS OR ROOF SURFACES.
 - F. FLASH ALL EXTERIOR OPENINGS WITH APPROVED WATERPROOFING, WHICH CONFORMS TO STANDARD LOCAL AND STATE

GENERAL NOTES & SPECIFICATIONS

DIV. 8 DOORS AND WINDOWS (CONT.)

8.4 Air Infiltration at Windows and Doors

A. FOR OPENABLE EXTERIOR DOORS (REQUIRED STEEL FIRE-RATED DOORS ARE EXEMPT FROM THESE REQUIREMENTS), AIR INFILTRATION SHALL BE MITIGATED BY FOLLOWING THESE CONSTRUCTION REQUIREMENTS:

- DOOR HEADS, SILL, AND JAMBS SHALL HAVE SEALS, ASTRAGALS OR BAFFLES AS REQUIRED TO ELIMINATE AIR INFILTRATION.
 - DOORS MOUNTED ON EITHER THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL SHALL HAVE A MINIMUM ONE-INCH LAP AT EACH JAMB.
 - A CONTINUOUS ANGLE, SEALED GASKET OR WEATHERSTRIPPING SHALL BE USED WITH DOORS REQUIRING VERTICAL TRACKS OR GUIDES (EX. ROLLING INDUSTRIAL DOORS).
 - A CONTINUOUS SEAL OR BAFFLE SHALL BE INSTALLED AT EACH DOOR JAMB FOR DOORS MOUNTED BETWEEN JAMBS.
 - ALL SWING DOORS AND WINDOWS OPENING TO THE EXTERIOR OR TO UNCONDITIONED AREAS SHALL BE FULLY WEATHERSTRIPPED, GASKETED, OR OTHERWISE TREATED TO LIMIT AIR INFILTRATION.
- 8.5 SWINGING EXTERIOR CLASS DOORS, METAL OR WOOD DOORS WITH GLASS PANELS, SOLID WOOD OR METAL DOORS SHALL BE CONSTRUCTED OR PROTECTED AS FOLLOWS:
- HOLLOW METAL DOORS SHALL BE CONSTRUCTED OF A MINIMUM EQUIVALENT TO SIXTEEN U.S. GAUGE STEEL AND HAVE SUFFICIENT REINFORCEMENT TO MAINTAIN THE DESIGNED THICKNESS OF THE DOOR WHEN ANY LOCKING DEVICE IS INSTALLED, SUCH REINFORCEMENT BEING ABLE TO RESTRICT COLLAPSING OF THE DOOR AROUND THE LOCKING DEVICE.
 - WOOD FLUSH TYPE DOORS SHALL BE 1-3/8" THICK MINIMUM WITH SOLID-CORE CONSTRUCTION.
 - THE STRIKE PLATE FOR LATCHES AND THE HOLDING DEVICES FOR PROJECTING DEADBOLTS IN WOOD CONSTRUCTION SHALL BE SECURED TO THE JAMB AND THE WALL FRAMING WITH SCREWS NOT LESS THAN 2-1/2 IN LENGTH.
 - EQUIP DOORS WITH DEADBOLTS OR DEADLOCKING LATCHES, SEE SPECIFICATIONS.
 - DEADBOLTS SHALL CONTAIN HARDENED INSERTS OR EQUIVALENT.
 - STRAIGHT DEADBOLTS SHALL HAVE A MINIMUM THROW OF 1" WITH A 5/8" MINIMUM EMBEDMENT.
 - HOOD OR EXPANDING LUG DEADBOLT SHALL HAVE A MINIMUM THROW OF 3/4", BOLTS OF LOCKS WHICH AUTOMATICALLY ACTIVATE 2 OR MORE DEADBOLTS SHALL EMBED MINIMUM.
 - ALL SWING EXTERIOR WOOD AND STEEL DOORS SHALL BE EQUIPPED AS FOLLOWS: A SINGLE OR DOUBLE DOOR SHALL BE EQUIPPED WITH A DOUBLE OR SINGLE CYLINDER DEADBOLT. THE BOLT SHALL HAVE A MINIMUM PROJECTION OF ONE (1) INCH AND BE CONSTRUCTED SO AS TO REPEL CUTTING TOOL ATTACK. THE DEADBOLT SHALL HAVE AN EMBEDMENT OF AT LEAST THREE FOURTHS (3/4) INCH IN THE STRIKE RECEIVING THE PROJECTED BOLT. THE CYLINDER SHALL HAVE A CYLINDER GUARD, A MINIMUM OF FIVE PIN TUMBLERS, AND SHALL BE CONNECTED TO THE INNER PORTION OF THE LOCK BY CONNECTING SCREWS OF AT LEAST ONE-FOURTH (1/4") IN DIAMETER.

THE PROVISIONS OF THIS SUBSECTION DO NOT APPLY WHERE (1) PANIC HARDWARE IS REQUIRED, OR (2) AN EQUIVALENT DEVICE IS APPROVED BY THE ENFORCING AGENCY.

8.14 AT ACCESSIBLE LOCATIONS, DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE MOUNTED 30 TO 44 ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 85 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS.

DIV. 9 FINISHES

SEE INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ROOM FINISH GROUPS AND ROOM FINISH SCHEDULE FOR WALL, CEILING AND FLOOR FINISHES.

9.1 Exposed mechanical equipment

- THERE SHALL BE NO EXPOSED PIPE, CONDUITS, DUCTS, VENTS, AND THE LIKE. ALL SUCH LINES SHALL BE CONCEALED OR FURLED AND FINISHED UNLESS NOTED AS EXPOSED CONSTRUCTION ON DRAWINGS.
- ALL EXPOSED EXTERIOR METAL FITTINGS, FLASHING, CONDUIT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

9.2 Interior partitions

- ALL PARTITIONS EXTEND TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE.
- OFFSET STUDS WHERE REQUIRED, SO THAT FINISH WALL SURFACE WILL BE FLUSH. ALL INTERIOR WALLS AND PARTITIONS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST ALL LOADS TO WHICH THEY ARE SUBJECTED BUT NOT LESS THAN A FORCE OF 5 POUNDS PER SQUARE FOOT APPLIED PERPENDICULAR TO THE WALLS W/L/20 OR L/240 PER METAL OR WOOD STUD SCHEDULE SHOWN ON DRAWING.

9.3 Ceramic tile / Stone tile/ Finished concrete

- ALL TILE INSTALLATION SHALL BE IN ACCORDANCE WITH ACCEPTED CURRENT INDUSTRY STANDARD WITH THE BEST QUALITY IN CRAFTSMANSHIP.
- SEE INTERIOR DESIGN DRAWINGS OR TILE LAYOUT OF WALLS AND FLOOR PATTERNS.
- WHERE FLOOR DRAINS OR FLOOR SINKS OCCUR, ALL FINISH FLOORS SHALL SLOPE TO DRAIN.
- ALL FLOORS IN PUBLIC AREAS SHALL LBE OF A NON SLIP SURFACE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA)

9.4 Interior finish flame retardant requirements

- INTERIOR FINISH FLAME RETARDANT REQUIREMENTS. INTERIOR FINISHES AND FLAMEPROOFING MUST CONFORM TO THE REQUIREMENTS.
- ALL DECORATIVE MATERIALS ARE REQUIRED TO BE MAINTAINED IN A FLAME-RETARDANT CONDITION.
- PROVIDE GALVANIC INSULATION BETWEEN DISSIMILAR METALS.
- IF STORING, USING, OR HANDLING ANY AMOUNTS OF HAZARDOUS MATERIALS, FLAMMABLE/COMBUSTIBLE LIQUIDS, OR CHEMICALS, CONTRACTOR SHALL COMPLY WITH STATE AND LOCAL HAZARDOUS MATERIAL ORDINANCES.
- EXIT DOORS, EXIT SIGNS, FIRE ALARM SENDING STATIONS, FIRE EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED OR OBSTRUCTED BY ANY DECORATIVE MATERIALS

9.8 Painting

- ALL EXTERIOR SURFACES ARE TO BE PAINTED AS PER THE SCHEDULE ON THE DRAWINGS.

B. PAINTING CONTRACTOR SHALL BE RESPONSIBLE TO APPROVE CONDITION OF ALL SURFACES TO INSURE THAT THEY HAVE BEEN PROPERLY PREPARED FOR PAINTING.

C. ALL COLORS SHALL BE APPROVED BY THE ARCHITECT.

D. ALL ADJACENT WORK SHALL BE PROTECTED AGAINST PAINT SPLATTERING.

E. DRYWALL AT BATHROOMS SHALL RECEIVE A MINIMUM OF TWO COATS OF GLOSS EPOXY ENAMEL WHEN SPECIFIED.

F. UPON COMPLETION OF PAINTING REMOVE ALL PAINT SPOTS AND LEAVE JOB IN A CLEAN ACCEPTABLE MANNER-READY FOR OCCUPANCY.

G. PAINT SHALL BE 'BENJAMIN MOORE' OR EQUAL - REFER TO MANUFACTURER'S SPECIFICATIONS FOR APPLICATION.

H. INTERIOR PAINTING - PAINTING CONTRACTOR WILL:

- PREPARE ALL NAIL JOINTS, CRACKS AND GOUGES, BY FILLING AND SANDING SO AS NOT TO BE VISIBLE UPON FINISHED PRODUCT.
- PAINT BREAKER PANEL BOX DOORS WITH LATEX ENAMEL TO MATCH WALLS.
- CLEAN-UP ALL SURFACES NOT DESIGNED FOR PAINT LEAVING NO EVIDENCE OF PAINT, PREPARATION OR MASKING MATERIAL.
- KEEP SURFACES WHICH ARE TO RECEIVE LINOLEUM TYPE FLOORING FREE OF PAINT.
- SEAL THE TOPS AND BOTTOMS OF ALL DOORS.
- USE A PVA SEAL COAT ON ALL SURFACES TO RECEIVE PAINT PRIOR TO APPLICATION OF PRIME COAT.
- PAINT INTERIOR WALLS, DOORS, TRIM, BASEBOARD, ETC. WITH ONE COAT PRIMER AND TWO COATS FINISH (EGGSHELL ENAMEL FINISH).
- INTERIOR PAINT MATERIAL, COLOR AND FINISH AS APPROVED BY OWNER.
- PREP, FILL, STAIN, AND SEAL ALL CLUBHOUSE EXPOSED WOOD. METHOD, MATERIAL, AND COLOR TO BE APPROVED BY OWNER.
- CAULK BASEBOARD TO VINYL FLOORS.

I. EXTERIOR PAINTING - PAINTING CONTRACTOR WILL:

- PRIME ALL WROUGHT IRON WITH ONE COAT METAL PRIMER AND FINISH WITH ONE COAT OF INDUSTRIAL ENAMEL.
- PREPARE ALL SURFACES TO BE PAINTED THOROUGHLY BY CLEANING, CAULKING, AND SMOOTHING PRIOR TO RECEIVING PAINT.
- FINISH EXTERIOR DOOR FACES WITH ONE COAT OF WATER BASED ENAMEL (COLOR AND PAINT TO BE APPROVED BY OWNER) (PRIME ANY UNPAINTED SURFACES BEFORE APPLYING FINISH COATS.)
- PRIME AND PAINT ALL EXTERIOR UTILITY BOXES, PIPES, VALVES, ELECTRICAL AND GAS PANELS AND METERS.
- PAINT ROOFING METAL (COLOR TO BE APPROVED BY OWNER).
- FILL SAND AND SMOOTH ALL PAINTED SURFACES, INCLUDING NAIL HOLES, KNOT HOLES, CRACKS, JOINTS AND GOUGES SO AS TO NOT BE VISIBLE FOLLOWING APPLICATION OF PAINT.
- MASK AND PROTECT ALL SURFACES NOT DESIGNATED FOR PAINT.
- PAINT EXTERIOR DRIP STRIPS, PLASTER REVEALS, VALVES, METER BOXES, MAIL BOXES, EXTERIOR DOOR JAMB, EXPOSED CONDUIT, FINISH EXTERIOR METALS AND VENTS WITH COLOR APPROVED BY OWNER.
- ALL EXTERIOR SURFACES TO RECEIVE INDUSTRIAL METAL PRIMERS AND INDUSTRIAL METAL ENAMEL FINISH COAT
- PREP AND PAINT TRASH ENCLOSURE DOORS AND SUPPORTS.
- CAULK AND PAINT EAVES WITH 2 COATS OF SOLID BODY STAIN (PRIME AS NECESSARY) STAIN AND COLOR TO BE APPROVED BY OWNER.)
- PAINT ALL STUCCO VENTS TO MATCH STUCCO.
- STRIP ALL OIL AND DEBRIS, PRIME AND PAINT GALVANIZED AND BARE METAL SEGMENTS OF THE CARPORT (OWNER TO APPROVE COLOR) CONTRACTOR MUST HAVE OWNER INSPECT AND APPROVE CLEANED STRUCTURE PRIOR TO PAINTING.
- PREP, FILL, AND STAIN (WITH TWO COATS) ALL EXPOSED WOOD AT CLUBHOUSE.

9.9 Gypsum wallboard

- ALL GYPSUM WALLBOARD SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT EDITION OF THE IBC STATE AND LOCAL CODES.
- GYPSUM WALLBOARD SHALL NOT BE INSTALLED UNTIL WEATHER PROTECTION FOR THE INSTALLATION IS APPROVED.
- ALL EDGES AND ENDS OF GYPSUM WALLBOARD SHALL OCCUR ON THE FRAMING EDGES EXCEPT THOSE EDGES AND ENDS WHICH ARE PERPENDICULAR TO THE FRAMING MEMBERS. ALL EDGES AND ENDS OF GYPSUM WALLBOARD SHALL BE IN MODERATE CONTACT EXCEPT IN CONCEALED SPACES WHERE FIRE-RESISTIVE CONSTRUCTION OR DIAPHRAGM IS NOT REQUIRED.
- THE SIZE AND SPACING OF FASTENERS SHALL COMPLY WITH THE CURRENT EDITIONS OF THE IBC STATE AND LOCAL CODES. FASTENERS SHALL BE SPACED NOT LESS THAN 3/ 8" FROM EDGES AND ENDS OF GYPSUM WALLBOARD.
- FASTENERS SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD.

F. DRYWALL CONTRACTOR WILL:

- INSTALL AND TAPE ALL FIRE WALLS PER APPROVAL OF BUILDING OFFICIAL.
- INSTALL SOUND-BOARD BETWEEN ALL PARTY WALLS WHERE INDICATED (OWNER TO APPROVE SOUNDBOARD MATERIAL.)
- INSTALL DRYWALL FOR SOFFITS WHICH WILL BE CONSTRUCTED AFTER THE INITIAL INSTALLATION OF DRYWALL(APPLICABLE AT FIRE RATED WALLS AND CEILING.)
- FASTEN DRYWALL WITH SCREWS ONLY.
- INSTALL BULL NOSED CORNERS/CORNER BEAD ON ALL OUTSIDE CORNERS.
- INSTALL RESILIENT SOUND CHANNEL AS PER PLANS.
- FURNISH AND INSTALL DRYWALL (GREEN BOARD) ON ALL WALLS BEHIND ALL TUBS.
- MASK AND PROTECT ALL AREAS NOT DESIGNATED FOR DRYWALL TEXTURE TAKING SPECIAL CARE TO PROTECT TUBS AND TUB WALLS, WINDOWS, DUCT WORK OPENINGS, AND FLOORS WHICH WILL RECEIVE LINOLEUM.

- TEXTURE ALL WALLS AND CEILINGS WITH A LIGHT SKIP TROWEL FINISH.
- REMOVE ALL MASKING AND CLEAN UP TEXTURE IN AREAS NOT DESIGNATED FOR TEXTURE.
- CLEAN UP AND REMOVE ALL EXCESS DRYWALL, TAPE, AND TEXTURE FROM THE CONSTRUCTIONS SITE.
- CLEAN WINDOW FRAMES AFTER TEXTURE.

9.10 Gyp-crete

- GYP-CRETE CONTRACTOR IS TO GET INSPECTION AND WRITTEN APPROVAL FROM OWNER PRIOR TO APPLICATION OF GYP-CRETE.
- ALL GYP-CRETE SEALER IS TO BE APPLIED TO A SMOOTH CLEAN SURFACE FREE OF PAINT, DIRT AND CONSTRUCTION DEBRIS.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO COMPLETE GYP-CRETE AND ACOUSTIMAT II WORK IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- KITCHEN AND BATHROOM FLOORS TO RECEIVE ACOUSTIMAT II UNDERLAYMENT PRIOR TO APPLICATION OF GYP-CRETE.

9.11 Exterior Plaster

- SEE EXTERIOR ELEVATIONS.
- PLASTER FINISH TO BE APPROVED BY ARCHITECT.

9.12 Finish Carpentry

- FINISH CONTRACTOR TO FURNISH ALL FASTENING MATERIALS AND INSTALLATION EQUIPMENT REQUIRED TO COMPLETE FINISH WORK PER PLANS AND SPECIFICATIONS.
- BEFORE INSTALLATION OF BASE AT ALL AREAS THAT REQUIRE RESILIENT FLOORING, FINISH CARPENTER WILL CAULK THE WALL AREA BETWEEN THE END OF THE DRYWALL OR END OF THE CABINET AND THE FLOOR. FINISH CONTRACTOR TO FURNISH CAULK.
- ALL MATERIAL INSTALLED SHALL BE STRAIGHT, PLUMB, TRUE AND LEVEL WITH EVEN MARGINS AT ALL DOORS, JAMBS, CASING AND TRIM. DOORS SHALL OPERATE FREELY AND HAVE A MAXIMUM 1/8" EVEN MARGIN BETWEEN DOOR EDGE BANDING, TRIM, BASE, ETC. SHORTER THAN 6" IS TO BE GLUED IN PLACE.
- SHELF AND POLE SUPPORTS NOT TO EXCEED 3' ON CENTER. SHELF AND POLE SUPPORTS TO BE BACKED BY SAME MATERIAL AS SHELF LEDGER.
- ALL EXPOSED SHELF CORNER EDGES TO BE ROUNDED.

F. FINISH CONTRACTOR TO INSTALL:

- MEDICINE CABINETS.
- INTERIOR DOORS, CLOSET SHELVING AND POLES, CASING, BASEBOARD, AND INT. AND EXT. DOOR HARDWARE AS DIRECTED BY OWNER.
- EXTERIOR DOORS, THRESHOLDS, STUCKOMOULD AND WEATHER STRIPPING AT FINISH.
- TRIM (BASEBOARD MATERIAL) WHERE UNDERSIDE OF KITCHEN FORMICA COUNTERTOP MEETS TOP OF STEM WALL.
- CABINETS.
- CLOSET DOORS (MIRROR AND WOOD), SHELVES AND POLES.
- KITCHEN CABINET SHELVES
- TOILET PAPER HOLDERS AND TOWEL BARS AND GRAB-BARS.
- SHOWER POLES, AND OTHER SUCH ACCESSORIES.
- TRIM AND SILLS.

NOTES:

- UNIT ENTRY DEADBOLT AND UNIT ENTRY LEVER TO BE KEYPAD ALIKE.
- DOOR STOPS TO BE INSTALLED AT LOCATIONS AS DIRECTED BY OWNER.
- ALL STRIKE PLATES TO BE INSTALLED WITH 3" SCREWS.
- ALL EXT. DOORS TO RECEIVE DEAD BOLTS. ALL BATHROOMS AND BEDROOMS TO RECEIVE PRIVACY LOCKS.
- EASE EDGES OF DOORS AS NECESSARY TO PREVENT SPLINTERING.
- ALL HARDWARE TO CONFORM WITH HANDICAP REQUIREMENTS (ADA).
- DOORS SHALL HAVE DOOR STOPS INSTALLED AT THE BOTTOM KNOB SIDE OF DOOR (NO WALL MOUNTED STOPS) USE HEAVY DUTY TYPE STOPS AS SUPPLIED BY OWNER.
- TOWEL BARS AND TOILET PAPER HOLDERS TO BE SECURED TO WOOD BACKING WITH MINIMUM 1 1/2 INCH WOOD SCREWS.

9.13 Carpet

- GENERAL LAYOUT RULES: EVERYTHING IS TO BE POWER-STRETCHED. ANY DAMAGE TO PAINT AND BASEBOARDS WILL BE BACK CHARGED TO CONTRACTOR. CARPET IS TO BE LAID OUT WITH CONSIDERATION TO TRAFFIC PATTERNS AND SEAM PLACEMENT. ALL MATERIALS SHALL BE ON THE JOB SITE PRIOR TO THE BEGINNING OF THE INSTALLATION TO ASSURE UNIFORMITY OF THE APPLICATION.
- PILE DIRECTION: WHERE TWO OR MORE PIECES OF THE SAME CARPET ARE ADJACENT THE PILE DIRECTION SHALL RUN THE SAME AS IN OTHER AREAS OF THE ROOM. PILE DIRECTION SHALL BE TOWARD THE ENTRANCE.
- TACK STRIP:
 - FULL LENGTH PIECES OF TACK STRIP SHALL BE INSTALLED AROUND THE WALL PERIMETER WITH PINS POINTING TOWARD THE WALL. BEND TACK STRIP PINS OVER IN CLOSET DOORWAYS, THRESHOLDS, AND OTHER SUCH TRAFFIC AREAS.
 - THE PROPER GULLY SHALL BE SLIGHTLY LESS THAN THE THICKNESS OF THE CARPET, BUT NOT TO EXCEED 3/8-INCH.
 - THE TACK STRIP SHALL BE CUT TO PROPER LENGTHS TO MAINTAIN THE SAME GULLY REGARDLESS OF THE SHAPE OF THE WALL. THE TACK STRIP SHALL BE SECURELY FASTENED TO MAINTAIN THE PROPER STRETCH PROVIDED BY POWER STRETCHING. TWO NAILS OR FASTENING POINTS ARE REQUIRED FOR THE SMALLEST PIECES OF TACK STRIP. CARPET SHALL NOT BE STAPLED TO THE TACK STRIP.
- SEAMS:
 - TRIMMED SEAM EDGES SHOULD BE SEALED WITH AN APPROPRIATE SEAM SEALER. SEAM CARPETS ACCORDING TO EXACT SPECIFICATIONS OF MANUFACTURER. MAKE SURE THAT ENTIRE SEAM IS GLUED. WHEN SEAM TIES INTO TACK STRIP USE EXTRA GLUE.
 - CONTRACTOR IS TO SUBMIT FOR APPROVAL SEAM LAYOUTS TO OWNER PRIOR TO INSTALLATION OF ANY FLOOR COVERING.
- CARPET TYPE AND COLOR: TO BE APPROVED BY OWNER.

F. PAD: TO BE APPROVED BY OWNER.

- PADDING SHALL BE SECURELY FASTENED TO THE SUB FLOOR WITH STAPLES OR NONFLAMMABLE CUSHION ADHESIVE. SEAMS SHALL BE SECURED WITH STAPLES OR NONFLAMMABLE CUSHION ADHESIVE. GLUE PAD IF ON CONCRETE; STAPLE IF ON WOOD. IN ADDITION TO GLUE AND/OR STAPLES, VINYL-COVERED FABRIC TAPE SUCH AS DUCT TAPE OR ADHESIVES, SHALL ALSO BE USED FOR SEAMS ON FOAM CUSHION.
- ALL CARPET TO LINOLEUM TRANSITION SEAMS SHALL RECEIVE STEEL MOLDING AS APPROVED BY OWNER.

DIV. 10 SPECIALTIES

10.1 Fire Extinguishers

- PROVIDE PORTABLE CLASS 2A:10BC FIRE EXTINGUISHER LOCATED WITHIN 75' FROM ANY POINT WITHIN THE SPACE AND PROVIDE ADDITIONAL PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY THE FIRE DEPARTMENT. SEE LIFE SAFETY DRAWINGS.

10.2 Signage

- EXIT SIGNS WHERE NOTED SHALL BE WORDED "EXIT" IN LETTERS SIX INCHES HIGH AND SHALL CONFORM WITH GOVERNING BUILDING CODES AND REGULATIONS. PROVIDE ILLUMINATED EXIT SIGNS WHERE NOTED AND/OR REQUIRED BY CODE. ILLUMINATED EXIT SIGNS SHALL BE LIGHTED AND WIRED ON SEPARATE CIRCUIT, WITH BATTERY BACKUP.

10.3 Building Address Signage

- STREET ADDRESS SHALL CONFORM TO THE FOLLOWING:
 - NUMBERS SHALL BE NO SMALLER THAN APPROVED BY APPLICABLE AGENCY, WIDTH PROPORTIONATE TO HEIGHT.
 - NUMBERS SHALL BE OF A COLOR CONTRAST TO THAT OF THE BACKGROUND UPON WHICH THEY ARE MOUNTED.
 - NUMBERS SHALL BE LOCATED ON:
 - A SIGN LOCATED NEAR THE ENTRANCE TO THE BUILDING OR COMPLEX WITH STREET NUMBERS AND NAME OF COMPLEX ON IT , OR
 - ON A PROMINENT PORTION OF THE BUILDING NEAREST THE STREET SO THAT THE NAME AND/OR NUMBER CAN BE EASILY SEEN FROM THE STREET FRONTING THE PROPERTY.
 - THE SIGN SHALL BE KEPT CLEAR OF ALL FOLIAGE.

10.4 Toilet Accessories

- ALL GRAB BARS SHALL BE 1- 1/2" DIAMETER STAINLESS STEEL TUBE OF WELDED CONSTRUCTION. GRAB BARS IN SHOWERS SHALL HAVE A PEENED FINISH. GRAB BAR AND MOUNTING SHALL BE ABLE TO WITHSTAND A MINIMUM OF 259 LB/FT. IN BENDING, SHEAR AND TENSION AND SHALL NOT ROTATE IN ITS FITTING.
- FRAMING CONTRACTOR SHALL INSTALL SOLID BLOCKING FOR ALL REQUIRED AND FUTURE GRAB BAR CONNECTIONS.
- ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, ETC PROVIDED ON OR WITHIN WALL SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

DIV. 15 MECHANICAL NOTES

15.1 SEE MECHANICAL DRAWINGS FOR MECHANICAL, PLUMBING AND FIRE PROTECTION NOTES.

15.2 Access Panels

- FRAMING CONTRACTORS SHALL FRAME AND DRYWALL CONTRACTORS SHALL PROVIDE ACCESS PANELS AS REQUIRED BY PLUMBING AIR CONDITIONING AND OTHER INSTALLERS AS REQUIRED BY CODE.
- FRAMING CONTRACTORS SHALL SUBMIT LOCATION OF ALL ACCESS PANELS PRIOR TO ARCHITECT FOR REVIEW- PRIOR TO INSTALLATION.
- NO ACCESS PANELS TO BE LOCATED IN PUBLIC AREA WALLS.

15.3 NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED.

15.4 THE CONCRETE CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF ALL PIPING, DUCTWORK, TRENCHES, SLEEVES, SPECIAL BENCHING FOR EQUIPMENT, CONDUITS, ETC. THROUGH AND UNDER CONCRETE SLABS PRIOR TO POURING OF FOOTING AND SLABS.

15.5 Fire Protection Systems

- PROVIDE FIRE DEPARTMENT KNOX-BOX" KEY ENTRY SYSTEMS FOR EACH BUILDING OR PORTION THEREOF AS DIRECTED BY THE LEGAL GOVERNING FIRE DEPT. THAT WILL HOUSE KEYS TO UNLOCK DOORS AT ALL TENANT ENTRIES. ALSO PROVIDE KNOX SYSTEM PADLOCK ON ALL SPRINKLER SYSTEM VALVE (AS DIRECTED BY LEGAL GOVERNING FIRE DEPT.)
- FIRE DAMPERS SHALL BE PROVIDED WHERE AIR DUCTS PENETRATE FIRE- RATED WALLS OR CEILINGS.
- ALL PLUMBING AND HEATING WORK SHALL CONFORM TO GOVERNING CODES.
- HVAC CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE VENTS FOR ALL GAS APPLIANCES.

15.6 Plumbing

- PLUMBING CONTRACTOR SHALL INSULATE ALL PLUMBING PIPING IN ATTICS, CANOPIES, AND WALLS. SEE PLUMBING DRAWINGS AND SPECS.
- ALL PLUMBING PIPING EXPOSED TO THE EXTERIOR SHALL BE INSULATED FROM BUILDING AND EXTENDED 6" BELOW FROST LINE. SEE PLUMBING DRAWINGS AND SPECS.
- PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS TO COMPLETE THE PLUMBING AS PER PLANS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO: LAYOUT, TRENCHING, UTILITY CONNECTIONS, BACKFILL, COMPACTATION TO A MINIMUM OF 90% DENSITY, ROUGH-IN INSTALLATIONS, TOP OUT AND FINISH PLUMBING INCLUDING CONNECTIONS EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS. ALSO INCLUDES BUT NOT LIMITED TO: CONNECTIONS TO HEATING/COOLING UNITS (INCLUDING DRAINS), WASHER/DRYER UNITS, WATER HEATERS, KITCHEN RANGES AND POOL EQUIPMENT FURNISHED BY OTHERS.
- PLUMBING CONTRACTOR TO PROVIDE:
 - JACKS FOR OWN TRADE TO BE INSTALLED BY ROOFER.
 - PRIOR TO COMMENCEMENT OF CONSTRUCTION, TEMPORARY WATER CONNECTIONS SUFFICIENT TO MEET THE NEEDS OF THE PROJECT.
 - CONNECTIONS FOR FUTURE INSTALLATION OF INDIVIDUAL WATER METERS IN EACH UNIT.
 - AND FURNISH RECESSED FAUCET BOX (AS APPROVED BY OWNER) AT LAUNDRY AREAS.

- CONNECTIONS TO UTILITY MAINS INSTALLED BY UTILITY CONTRACTOR AT POINTS COORDINATED WITH SAME.
- PLUMBING AND GAS LINES TO POOL EQUIPMENT AREA.
- FURNISH ANY CAULKING AS REQUIRED BY CODE.

15.7 Heating Ventilating and Air Conditioning

- REFER TO MECHANICAL PLAN FOR SPECS AND NOTES.
- AIR CONDITIONING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS TO COMPLETE THE HEATING, AIR CONDITIONING, AND OTHER ASSOCIATED SHEETMETAL AND DUCTING WORK PER PLANS AND SPECIFICATIONS AND AS FURTHER DESCRIBED BELOW.
 - THERMOSTATS AND WIRING.
 - REGISTER WHITE REGISTERS
 - DUCTING: THERM-A-FLEX (MCK) INSULATED HEATING DUCT
 - AIR CONDITIONING CONDENSER UNIT AND CONDENSATE LINES:
 - DRYER VENTS: INCLUDE BIRD GUARDS
 - RANGE EXHAUST DUCT
 - COMBUSTION AIR VENTS TO LAUNDRY AND WATER HEATER ROOMS PER PLANS AND TO THE SATISFACTION OF THE LOCAL BUILDING OFFICIAL.

C. CONTRACTOR SHALL:

- PURCHASE AND INSTALL DRYERBOXES FROM "THE DRYERBOX.COM"
 - APPLANCE CONNECTIONS TO AND FROM VENTING EQUIPMENT AND FURNISHES FURNISHED BY OTHERS INCLUDING BUT NOT LIMITED TO BATHROOM EXHAUST FANS WHICH
- 15.8 Insulation
- DUCT WORK INSULATION:
 - SERVICE: AIR CONDITIONING AND HEATING SUPPLY, FRESH (OUTSIDE) AIR IN CONDITIONED SPACES- INSULATE ENTIRELY. MATERIAL : 0.75LB/CU. FT. FLEXIBLE FIBERGLASS 1 1/2" THICK FLAME RESISTANT ALUMINUM KRAFT FOIL JACKET.
 - SERVICE: AIR CONDITIONING AND HEATING SUPPLY AND RETURN, FRESH (OUTSIDE) AIR IN UNCONDITIONED SPACES- INSULATE ENTIRELY. MATERIAL 0.75LB/CU.FT. FLEXIBLE FIBERGLASS 2" THICK WITH FLAME RESISTANT ALUMINUM KRAFT FOIL JACKET. (R6 MINIMUM)

ALL INSULATION: RATING NOT TO EXCEED 25 FLAME, 50 SMOKE AND RATED FOR USE IN RETURN AIR PLENUM.

15.9 "Low Pressure" Ductwork and Accessories

- CONSTRUCT RECTANGULAR DUCT OF FIRST QUALITY MATERIALS IN ACCORDANCE WITH SMACNA-HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE. CROSSBREAK EXCEPT WHERE RIGID INSULATION IS SPECIFIED CONSTRUCT ROUND DUCT ACCORDING TO RECOMMENDATIONS OF ASHRAE GUIDE. ROUND DUCT SHOULD BE GALVANIZED SPIRAL UNLESS NOTED OTHERWISE. LONGITUDINAL LOCK-- SEAM DUCT IS NOT ACCEPTABLE.
- KEEP ALL DUCTWORK, DUCT SYSTEM AND EQUIPMENT OPENINGS COVERED WITH ADHESIVE DUCT PROTECTIVE WRAP LIKE VENTURE TAPE 1512, UNTIL SYSTEM START-UP. THIS IS TO PREVENT INTRUSION OF CONSTRUCTION DIRT AND DEBRIS INTO THE DUCT SYSTEM AND HVAC EQUIPMENT.
- PHENOLIC DUCT BY PAL-DUCT OR KOOL-DUCT IS AN ACCEPTABLE ALTERNATIVE TO CHIC METAL DUCT AND INSULATION IN CONCEALED SPACES. USE FLANGED JOINTS. SUBMIT DETAILED DUCT DRAWINGS FOR ENGINEER VIEW.
- SUPPORT HORIZONTAL DUCT IN WALL WITH BANK IRON STRAP HANGER IF WIDTH IS UNDER 18" AND WITH SHELF TYPE BRACKET IF OVER 18".
- SUPPORT DUCTS SUSPENDED FROM ROOF STRUCTURE WITH BAND-TYPE HANGERS IF MAXIMUM IS INSIDE 48" AND WITH TRAPEZE-TYPE HANGERS IF OVER 48".

FITTINGS:

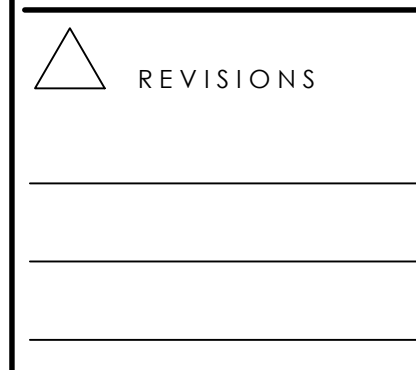
- ELBOWS (LESS THAN 24" WIDE): USE STANDARD RADIUS ELBOW. RADIUS SHALL BE 1.5 TIMES WIDTH OF FITTINGS.
- ELBOWS (24" WIDE AND OVER): SHALL BE SQUARE ELBOWS WITH TURNING VANES. ELBOWS LESS THAN 36" WIDE SHALL HAVE SINGLE- BLADED VANES. ELBOWS 36" WIDE AND OVER SHALL HAVE DOUBLE- BLADED VANES IN AIRFOIL PATTERN.
- MAIN TEE CONNECTIONS SHALL BE RADIUS OR SQUARE DEPENDING ON THE SIZE DUCT REDUCED TO ADJUSTABLE SPLITTER DAMPER SHALL BE PROVIDED AHEAD OF TEE.
- BRANCH TEE CONNECTIONS SHALL BE 45' BRANCH TAKE-OFFS. PROVIDE BALANCING DAMPERS IN BRANCHES UNLESS OTHERWISE DIRECTED TO DELETE THEM.
- TRANSITIONS, RAISES AND DROPS SHALL BE BUILT SO THAT CHANGE IN DIRECTION OF SIDE OF DUCT DOES NOT EXCEED 30' ANGLE TO PROJECTED SAME SIDE.
- PROVIDE FLEXIBLE CONNECTIONS (FC) AT EACH INLET AND OUTLET DUCT CONNECTION TO EVERY PIECE OF FAN EQUIPMENT. FABRIC FASTENED TO METAL WITH DOUBLE LOCK SEAM. FABRIC FOR ORDINARY HVAC USES TO BE WATERPROOF. FIRE RETARDANT AND SUITABLE FOR TEMPERATURE OF 200F. MANUFACTURERS: DURO-DYNE, VENTFABRICS OR EQUAL.
- RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 50' FLEXIBLE DUCT SHALL NOT BE USED AS PER PLAN. PROVIDE A SHEET METAL ELBOW AT DIFFUSER NECK WHERE TAP IS NOT OUT OF THE BOTTOM OF THE SUPPLY MAIN.
- FURNISH AND INSTALL BALANCING DAMPERS FOR EACH SUPPLY AIR RUNOUT AND AT ADDITIONAL LOCAL AS SHOWN ON THE DRAWINGS. CONSTRUCTION TO BE GALVANIZED STEEL, TWO GAUGES HEAVIER THAN DUCT. SHAFT SHALL BE STEEL WITH BRASS BEARINGS. BLADES SHALL NOT EXCEED 12" WIDE AND 48" LONG. FRAMES OF SAME GAUGE METAL ARE REQUIRED WHERE TWO BLADES OR MORE ARE USED.
- BALANCING DAMPERS TO HAVE LOCK-TYPE DAMPER OPERATE AND LINKAGE AS BEST SUITS CONSTRUCTION AND ACCESS CONDITIONS. DAMPERS WITH ACCESSIBLE OPERATORS TO BE PROVIDED WITH LOCKING DAMPER QUADRANTS COMPLETE WITH LOCKING NUTS AND GRADUATED SCALE. DAMPERS WITH NON-ACCESSIBLE OPERATORS PROVIDED WITH YOUNG SERIES 335 ADJUSTABLE COVER REGULATORS.
- DUCT SEALING: COMPLY WITH SMACNA STANDARD DUCT SEALING REQUIREMENTS FOR CLASS "A" DUCTS FOR ALL O/A, SUPPLY RETURN AND EXHAUST DUCTWORK.

- APPLICATION METHOD: BRUSH ON.
- SOLID CONTENT: MINIMUM 65%
- SHORE A HARDNESS: MINIMUM 20.

- WATER RESISTANT.
- MOLD AND MILDEW RESISTANT.
- VOC: MAXIMUM 75G/L (LESS WATER).
- MAXIMUM STATIC-PRESSURE CLASS: 10-INCH WG (2500PA), POSITIVE AND NEGATIVE.
- SERVICE: INDOOR OR OUTDOOR.
- SUBSTRATE: COMPATIBLE WITH GALVANIZED SHEET STEEL (BOTH PVC COATED AND BARE), STAINLESS STEEL, OR ALUMINUM SHEETS.
- TAE SHALL NOT BE ACCEPTABLE.
- TOTAL DUCT LEAKAGE RATES SHALL NOT EXCEED 10%.
- FIRE DAMPERS: AT EACH PENETRATION THROUGH FIRE- RATED PARTITIONS, PROVIDE FIRE DAMPERS WHERE INDICATED ON DRAWINGS TO MEET OR EXCEED BARRIER RATING.
- FIRE DAMPERS SHALL BE TYPE "B", U.L. CLASSIFIED AND MEET ALL NFPA CRITERIA FOR PRIMARY FIRE DAMPERS FRAME SHALL BE 20 GAUGE MINIMUM. BLADES SHALL BE 24 GAUGE MINIMUM. BLADES SHALL NOT INFRINGE ON DUCT FREE ARE FOR AIRFLOW. FUSIBLE LINK SHALL BE RATED AT 165°F. CLOSURE SPRINGS SHALL BE 301 STEEL. FINISH SHALL BE MILL.
- Smoke Damper
- FABRICATE IN ACCORDANCE WITH NFPA 90A AND UL 5555, AND AS INDICATED.
- NON-CLOSE SMOKE VENT DAMPER: CURTAIN TYPE, OPENING BY GRAVITY UPON ACTUATION OF ELECTRO THERMAL LINK FLEXIBLE STAINLESS STEEL BLADE EDGE SEALS TO PROVIDE CONSTANT SEALING PRESSURE.
- OPEN SMOKE VENT DAMPER: CURTAIN TYPE, CLOSING UPON ACTUATION OF ELECTRO THERMAL LINK, FLEXIBLE STAINLESS STEEL BLADE EDGE SEALS TO PROVIDE CONSTANT SEALING PRESSURE. STAINLESS STEEL SPRINGS WITH LOCKING DEVICE ENSURE POSITIVE CLOSURE FOR UNITS MOUNTED HORIZONTALLY

DIV. 16 ELECTRICAL NOTES

- REFER TO ELECTRICAL PLANS FOR SPECS AND NOTES.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIAL AND LABOR REQUIRED TO COMPLETE ELECTRICAL INSTALLATION PER PLANS AND SPECIFICATIONS.
- ELECTRICAL CONTRACTOR SHALL:
 - FURNISH AND INSTALL CABLE TELEVISION AND HIGHSPEED INTERNET ACCESS AND TELEPHONE SYSTEMS.
 - INSTALL LIGHT BULBS FOR LIGHT FIXTURES AS PROVIDED BY OWNER.
 - FURNISH AND INSTALL ALL SWITCHES, RECEPTACLES AND COVER PLATES (WHICH ARE TO BE WHITE) INCLUDING THOSE FOR TELEPHONE AND INTERNET AND TELEVISION.
 - INSTALL ALL LIGHTING FIXTURES (INCLUDING ANY FOUNDATIONS FOR EXTERIOR FIXTURES).
 - INSTALL SMOKE DETECTORS.
 - WIRE BATHROOM EXHAUST FANS INSTALLED BY OTHERS.
 - FURNISH AND INSTALL DOOR CHIMES.
 - FURNISH AND INSTALL UNDERGROUND WIRING IN CONDUIT FOR EXTERIOR LIGHTING.
 - INSTALL EXTERIOR LIGHTING STANDS OR POLES IN HOLES FILLED WITH CONCRETE.
 - INSTALL POWER TO ALL EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS REQUIRING ELECTRICAL POWER(EXAMPLE PROVIDE PIGTAILS ON GARBAGE DISPOSALS ETC.).
 - FURNISH AND INSTALL WIRING FROM CLOSEST TEMPORARY POWER POLE TO OFFICE TRAILER (INCLUDES CABLE DROP IF NECESSARY).
 - INSTALL CONNECTIONS TO UTILITY MAINS INSTALLED BY UTILITY CONTRACTOR AT POINTS COORDINATED WITH SAME.
 - INSTALL ALL COMMON AREA SITE LIGHTING WHICH SHALL BE CONTROLLED WITH A PHOTO CELL SWITCH.
 - LIMIT HEIGHT OF EXTERIOR A/C-DISCONNECT BOXES TO 18" ABOVE GRADE.



REVISIONS

NO.	DATE	DESCRIPTION

ARCHITECTURAL REFERENCE SYMBOLS

SECTION INDICATOR: REFERENCE SECTION LOCATION THROUGH AN AREA FOR ADDITIONAL INFORMATION. KEYNOTE INDICATORS: REFERENCE SHEET KEYNOTE LOCATION FOR ADDITIONAL INFORMATION. SECTION LOC. IN DWG. MODULE. BEYOND AREA EXTENSION. SECTION LOC. SUBSET SHEET. PLAN. SECTION LOC. IN DWG. MODULE. DETAIL LOC. IN DWG. MODULE. LARGE SCALE VIEW LOC. SUBSET SHEET. DETAIL LOC. SUBSET SHEET. REFERENCE ELEVATION LOCATION FOR ADDITIONAL INFORMATION. PHOTO LOC. IN DWG. MODULE. PHOTO LOC. SUBSET SHEET. REFERENCE DETAIL LOCATION FOR ADDITIONAL INFORMATION. DRAWING MODULE LOC. (IDENTIFYING LOWER LEFT OF MULTIPLE MODULES). DRAWING MODULE NAME. FLOOR PLAN. NUMERIC DRAWING SCALE. 1/4" = 1'-0". MATCH LINE INDICATOR: REFERENCE SHEET LOCATION FOR ADDITIONAL INFORMATION. REFER TO ADDITIONAL SHEET FOR CONTINUATION. FLOOR PLAN OVERLAP. BEYOND AREA EXTENSION. SEE AE401. DATUM INDICATORS: REFERENCE BUILDING PLANS FOR ADDITIONAL INFORMATION. TARGETED OBJECT. TARGET NAME. TARGET AREA. TARGET POINT. TARGET HEIGHT. TARGETED DATUM. SPOT ELEVATION DATUM. CEILING HEIGHT DATUM. WALL TYPE INDICATORS: REFERENCE RATED ASSEMBLIES SHEET FOR ADDITIONAL INFORMATION. DENOTES NEW FULL HEIGHT WALLS. DENOTES EXIST. WALLS TO REMAIN. DENOTES EXIST. WALLS TO BE REMOVED. DENOTES EXIST. FDN. WALLS TO REMAIN. DENOTES EXIST. FDN. WALLS TO BE REMOVED. THROUGH LEADER.

MECHANICAL ROOM. RELATES TO NEW SPACE NAME. CHARACTER RELATES TO NEW NUMERIC SPACE TAG. 100 SQ. FT. NEW SPACE AREA. MECHANICAL ROOM. RELATES TO EXIST. SPACE NAME. CHARACTER RELATES TO EXIST. NUMERIC SPACE TAG. 100 SQ. FT. EXIST. SPACE AREA. REVISION INDICATOR. REVISION AREA CLOUD. REVISION INDICATOR. REVISION AREA CLOUD. WINDOW INDICATOR: REFERENCE WINDOW SCHEDULE FOR ADDITIONAL INFORMATION. WINDOW NUMBER. STOREFRONT GLAZING NUMBER. NEW WINDOW IDENTIFIER. NEW STOREFRONT IDENTIFIER.

ARCHITECTURAL ABBREVIATIONS

Table listing architectural abbreviations such as AT ANCHOR BOLT, ABS AIR BARRIER SYSTEM, ABV ABOVE, A/C AIR CONDITIONING, ACP ACOUSTICAL CEILING PANEL, ACT ACOUSTICAL CEILING TILE, ACW ALUMINUM CLAD WINDOW, ACWP ALUMINUM COMPOSITE WALL PANEL, ADJ ADJUSTABLE, AFU ABOVE FINISHED FLOOR, AHU AIR HANDLING UNIT, ALT ALTERNATE, ALUM ALUMINUM, A-PT ACCENT PAINT, AP ACCESS PANEL, APC ARCHITECTURAL PRECAST CONCRETE, AS ALUMINUM STOREFRONT, ATTN ATTENTION, AUTO AUTOMATIC, AVG AVERAGE, AW ALUMINUM WINDOW, AWC ACOUSTICAL WALL COVERING, AWP ACOUSTICAL WALL PANEL, BD BOARD, BF BARRIER FREE, BLDG BUILDING, BLK BLOCK, BLKG BLOCKING, BM BENCH MARK, BRG BEARING, BSM BASEMENT, BUR BUILT-UP ROOF, CAB CABINET, CB CHALKBOARD, CTV CLOSED CIRCUIT TELEVISION, CFMF COLD FORMED METAL FRAMING, CG CORNER GUARD, CIPC CAST IN PLACE CONCRETE, CJ CONTROL JOINT, CLG CEILING, CLR CLEAR, CM CENTIMETER, CMBD CEMENT BOARD, CMU CONCRETE MASONRY UNIT, CO CLEAN OUT, COL COLUMN, CONC CONCRETE, CONST CONSTRUCTION, CONT CONTINUOUS, CONTR CONTRACTOR, CORR CORRIDOR, CLSSM CLASSROOM, CR COURSE, CRS CAST STONE MASONRY UNIT, CSMJ CARPET TILE, CT CERAMIC TILE, CTSK COUNTERSINK, CURT CURTAIN, CUYD CURTAIN WALL, CW CURTAIN WALL, CWF CEMENTitious WOOD FIBER DECK, D DEPTH, DEEP, DBL DOUBLE, DEMO DEMOLITION, DEPT DEPARTMENT, DPF DRINKING FOUNTAIN, DG DOOR GRILLE, DIAG DIAGONAL, DIA DIAMETER, DNR DRAWING, DIV DIVISION, DL DOOR LOUVER, DN DOWN, DP DAMP PROOFING, DR DISPLAY RAIL, DS DOWNSPOUT, DTL DETAIL, DWG DRAWING, DWY DRAWER, EA EACH, EP EXHAUST FAN, EFS EXTERIOR FINISH SYSTEM, EIFS EXTERIOR INSULATION FINISH SYSTEM, EJ EXPANSION JOINT, EL ELEVATION, ELAS ELASTOMERIC, ELEC ELECTRICAL, ELEV ELEVATION, EMER EMERGENCY, EPS EXPANDED POLYSTYRENE, EPX EPOXY, EPX PT EPOXY PAINT, EQ EQUAL, EQUIP EQUIPMENT, EST ESTIMATE, ETR EXISTING TO REMAIN, EWC ELECTRIC WATER COOLER, EXH EXHAUST, EX EXISTING, EXP EXPANSION, EXT EXTERIOR, F FURNACE, FAF FLUID APPLIED ATHLETIC FLOORING, FB FACE BRICK, FD FLOOR DRAIN, FE FIRE EXTINGUISHER, FEC FIRE EXTINGUISHER CABINET, FF FINISHED FLOOR, FFE FINISHED FLOOR ELEVATION, FGL FIBERGLASS, FRFC FIBERGLASS REINFORCED CONCRETE, FH FIRE HYDRANT, FHC FIRE HOSE CABINET, FHVC FIRE HOSE VALVE CABINET, FIN FINISHED, FLR FLOOR, FLRG FLOORING, FND FOUNDATION, FO FACE OF, FOC FACE OF CONCRETE, FOM FACE OF MASONRY, FR FIRE RATED, FRA FIRE RATED ASSEMBLY, FRM FRAME, FRFP FIBERGLASS REINFORCED PLASTIC, FRFT FIRE RETARDANT TREATED, FT FOOT, FTG FOOTING, FURN FURNITURE, FVC FIRE VALVE CABINET, FWC FABRIC WALL COVERING, GA GAUGE, GALLON GAL, GALV GALVANIZED, GB GYPSUM BOARD, GRFG GLASS REINFORCED GYPSUM, GRC GLASS REINFORCED CONCRETE, GL GLASS, GL-BLK GLASS BLOCK, GPL GYPSUM PLASTER, GPM GALLONS PER MINUTE, GRAN GRANITE, GSU GLAZED STRUCTURAL UNIT, GT GLASS TILE, GWT GLAZED WALL TILE, GYP GYPSUM, H HIGH, HBB HOSE BIB, HBD HARD BOARD, HDR HEADER, HNR HARDENER, HNRD HARDWOOD, HWR HARDWARE, HM HOLLOW METAL, HORIZ HORIZONTAL, HP HORSEPOWER, HPPF HIGH PERFORMANCE FLOOR PAINT, HR HOUR, HT HEIGHT, HTR HEATING, HTR HEATER, HVAC HEATING, VENTILATION, AIR CONDITIONING, ID INSIDE DIAMETER, IN INCH, INCL INCLUDE, INFO INFORMATION, INST INSTALLATION, INSUL INSULATION, INT INTERIOR, IWC IMPACT RESISTANT WALL COVERING, INTW INTERACTIVE WHITE BOARD, JAN JANITOR, JC JANITOR CLOSET, JCT JOINT, JCT JOINT, JOINT JOINT, KO KNOCKOUT, L LENGTH/LONG, LAB LOCAL AUTHORITY HAVING JURISDICTION, LD DOUBLE, LAM LAMINATE, LAV LAVATORY, LBS POUNDS, LGMF LIGHT GAUGE METAL FRAMING, LH LEFT HAND, LN LINOLEUM, LKR LOCKER, LKH LONG LEG HORIZONTAL, LLV LONG LEG VERTICAL, LMC LINEAR METAL CEILING, LPS LAMINATE PANEL SYSTEM, LT LIGHT, LVR LOUVER, M METER, MACH MACHINE, MATL MATERIAL, MAS MASONRY, MAX MAXIMUM, MB MARKER BOARD, MBL MARBLE, MCP METAL CEILING PANEL, MCH MECHANICAL, MED MEDIUM, MEMB MEMBRANE, MFR MANUFACTURER, MIF MULTICOLOR INTERIOR FINISHING, MIN MINIMUM, MIRR MIRROR, MISC MISCELLANEOUS, MLDG MOULDING, MM MILLIMETER, MO MASONRY OPENING, MPS MANUAL PROJECTION SCREEN, MR MAP PAIL, MNT MOUNT, MNT MOUNTED, MNT MOUNTING, MTG METAL, MTLB METAL BASE, MWP MEMBRANE WATERPROOFING, NA NOT APPLICABLE, NRC NOT IN CONTRACT, NOM NOMINAL, NRC NOISE REDUCTION COEFFICIENT, NTS NOT TO SCALE, OFF OFF CENTER, OFD OUTSIDE DIAMETER, OVHD OVERHEAD, OPNG OPENING, OPP OPPOSITE, OPP HD OPPOSITE HAND, PC PRECAST, PCP PORTLAND CEMENT PLASTER, PERFG PERFORATED, PERM PERIMETER, PIP PIPED IN PLACE, PLAM PLASTIC LAMINATE, PLAS PLASTER, PLYWD PLYWOOD, PLYWOOD PLYWOOD, POLY POLYETHYLENE, POLY POLYETHYLENE, PPR PORCELAIN PAVER, PPS POWER PROTECTION SCREEN, PPT PRESSURE PRESERVATIVE TREATED PAIR, PREFAB PREFABRICATED, PREFIN PREFINISHED, PREP PREPARE/PREPARATION, PRC PROJECTOR SCREEN, PS PENCIL SHARPENER BLOCK, PSF POUNDS PER SQUARE FOOT, PSI POUNDS PER SQUARE INCH, PTN PARTITION, PTV PNEUMATIC TUBE SYSTEM, PVC POLYVINYL CHLORIDE, PVMT PAVEMENT, PWC PERFORATED VINYL WALL COVERING, QUARRY TILE, QTY QUANTITY, RISER RISER, RA RETURN AIR, RAD RADIUS, RUBBER BASE, RCP REFLECTED CEILING PLAN, ROD ROOF DRAIN, REFRAC REFRIGERATOR, REINF REINFORCING, REM RECESSED ENTRY MAT, RES RESINOUS FLOORING, RFG ROOFING, RFT RUBBER FLOOR TILE, RHT RIGHT HAND, RL RAIN LEADER, RM ROOM, ROUGH OPENING, RUBBER FLOOR TILE, RESILIENT STAIR RISER, RESILIENT STAIR TREAD, RIGHT, RTU ROOFTOP UNIT, R/W RIGHT OF WAY, SAB SOUND ATTENUATION BLANKET, SCH SCHEDULE, SF SQUARE FOOT, SFB SECURITY GYPSUM BOARD, SHM SHEET HOLLOW METAL, SHTG SHEATHING, SIM SIMILAR, SPM SPRAYED FIRE RESISTANT MATERIAL, SPEC SPECIFICATION, SPF SPREFORMED POLYURETHANE FOAM, SPR SPRINKLER, SQ SQUARE, SRD SECONDARY ROOF DRAIN, ST STAINLESS STEEL, STC SOUND TRANSMISSION COEFFICIENT, STD STANDARD, STL STEEL, STRUC STRUCTURAL, SUSP SUSPENDED, SV SHEET VINYL, SWM SQUARE WOVEN MESH, SY SQUARE, SYMMETRICAL, SYMMETRICAL, T TREAD, TACK BOARD, TEL TELEPHONE, T&G TOPGUE & GROOVE, THHD THRESHOLD, THICK, THICK, TO TOP OF, TO TOP OF, TO TOP OF, TO TOP OF, TOW TOP OF WALL, TR TREATED, TS TACK STRIP, TV TELEVISION, TYP TYPICAL, UC UNDERCUT, UNDERGROUND, UNH UNIT HEATER, UNLESS NOTED OTHERWISE, VCT VINYL COMPOSITION TILE, VOB VISUAL DISPLAY BOARD, VERT VERTICAL, VEST VESTIBULE, VAPOR RETARDER, VR VINYL/RUBBER BASE, VT VINYL TILE, VTR VENT THROUGH ROOF, VINYL WALL COVERING, W WIDE, W/W WITH, WB WOOD BASE, WC WATER CLOSET, WCP WOOD CEILING PANEL, WD WOOD, WD-PNL WOOD PANELING, WINDOW WINDOW, WH WATER HEATER, W/O WITHOUT, WP WATERPROOFING, WORKING POINT, WR WATER RESISTANT, WSCOT WAINSCOT, WSP WOOD SPORTS FLOORING, WT WEIGHT, WWF WELDED WIRE FABRIC, WDM WELDED WIRE MESH, YARD

GENERAL NOTES & SPECIFICATIONS

REQUIREMENTS OF REGULATORY AGENCIES
1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODE, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS.
2. IN CASE OF A DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER IN WRITING OF ANY SUCH DIFFERENCES.
3. NON COMPLIANCE: SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH REQUIREMENTS OF APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCE, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES.
4. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF STATE PLUMBING AND MECHANICAL CODES.
5. EXCEPT AS OTHERWISE SPECIFIED HEREIN, ALL PIPING WORK AND MATERIAL ARE TO CONFORM TO THE AMERICAN STANDARDS ASSOCIATION CODE FOR PRESSURE PIPING.
6. PERMITS: CONTRACTOR SHALL PAY FOR ALL BUILDING PERMITS REQUIRED BY WORK AND PERMITS. FOR OPENING STREET AND FOR CONNECTION TO VARIOUS UTILITIES, INCLUDING FEES FOR WATER METER INSTALLATION AND ANY OTHER REQUIREMENTS NECESSARY TO CARRY OUT HIS WORK, WHERE STREETS OR SIDEWALKS ARE CUT, SAME MUST OTHER REPAIRED TO AT LEAST AS GOOD A CONDITION AS THEY WERE BEFORE. ALL AT THE EXPENSE OF THIS CONTRACTOR. PERMITS SHALL BE POSTED IN A PROMINENT PLACE AT THE BUILDING SITE PROPERLY PROTECTED FROM THE WEATHER AND PHYSICAL DAMAGE.
GUARANTEE
1. CONTRACTOR SHALL, BY ACCEPTING THESE DRAWINGS AND SPECIFICATIONS, GUARANTEE:
2. CONTRACTORS SHALL FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED EXCEPT WHERE SPECIFIED APPROVAL IS GIVEN BY ENGINEER FOR SUBSTITUTION.
3. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED SUBSTANTIALLY AS SHOWN ON DRAWINGS AND AS REQUIRED WITHIN THE INTENT OF THESE SPECIFICATIONS.
4. ALL EQUIPMENT, PIPING, ETC. SHALL BE DRIPTIGHT, AIRTIGHT, FREE OF VIBRATION, POUNDING AND OTHER OBJECTIONABLE NOISES.
5. CONTRACTORS SHALL GUARANTEE EQUIPMENT, ACCESSORIES AND MATERIAL FURNISHED BY HIM, INCLUDING INSTALLATION FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP.
6. IF ANY EQUIPMENT, MATERIAL, AND/OR PIPE JOINTS, CONNECTIONS, ETC., FAIL OR DO NOT OPERATE SATISFACTORILY OR SHOW UNDUWEAR, HE WILL UPON BEING NOTIFIED, IMMEDIATELY REMEDY DEFECT AT HIS OWN EXPENSE.
COORDINATION BETWEEN CONTRACTORS
EACH CONTRACTOR AND SUBCONTRACTOR SHALL STUDY ALL DRAWINGS APPLICABLE TO THIS WORK SO COMPLETE COORDINATION BETWEEN TRADES WILL BE AFFECTED. SPECIAL ATTENTION SHALL BE GIVEN TO POINTS WHERE DUCTS CROSS OTHER DUCTS OR PIPING, WHERE LIGHTS, FIT INTO CEILINGS AND WHERE PIPE, DUCTS AND CONDUITS PASS THROUGH WALLS AND COLUMNS.
IT IS THE RESPONSIBILITY OF EACH CONTRACTOR AND SUBCONTRACTOR TO LEAVE NECESSARY ROOM FOR OTHER TRADES. NO EXTRA COMPENSATION WILL BE ALLOWED TO COVER THE COST OF REMOVING PIPING, CONDUITS, DUCTS, OR EQUIPMENT FOUND ENCROACHING ON SPACE REQUIRED BY OTHERS.
MINOR DEVIATIONS
FOR THE PURPOSE OF CLARITY AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC ALTHOUGH SIZE AND LOCATION OF EQUIPMENT AND PIPING ARE DRAWN NEAR TO SCALE WHEREEVER POSSIBLE. VERIFY CONTRACT DOCUMENT INFORMATION AT SITE.
DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND DUCTS AND SUGGESTED ROUTED. IT IS NOT THE INTENTION OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN A MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOMS AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.
ATTACHING TO BUILDING CONSTRUCTION
EQUIPMENT AND PIPING SUPPORTS SHALL BE ATTACHED TO STRUCTURAL MEMBERS (BEAMS, JOISTS, ETC.) RATHER THAN TO FLOOR OR ROOF SLABS. DO NOT ATTACH HANGARS TO BOTTOM CHORD OF STRUCTURAL MEMBERS.
DEMOLITION AND REMOVAL OF EQUIPMENT
1. CONTRACTORS SHALL REMOVE ALL EQUIPMENT, PIPES, DUCTWORK, HANGERS AND SUPPORT FOR PORTION IF MECHANICAL SYSTEM IN PENDING BUILDING AS SHOWN ON DRAWINGS AND/OR IMPLIED BY NATURE OF THE WORK INDICATED TO BE REMOVED.
2. CONTRACTOR SHALL PROPERLY REMAINING PORTION OF WORK. CONTRACTOR SHALL PROVIDE VALVES, PLUGS, VENTS ETC. AS REQUIRED FOR COMPLETE OPERATING SYSTEM. ALL PIPES, DUCTWORKS, ETC., REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES UNLESS SPECIFIED OTHERWISE.
3. CONTRACTOR SHALL CAP ALL ABANDONED PIPING WHICH CANNOT BE REMOVED. THIS WOULD PERTAIN TO PIPING WHICH RUNS INTO CONCRETE FLOOR, THRU OUTSIDE WALLS BELOW GRADE, ETC.
ASSIGNMENT OF MISCELLANEOUS WORK
1. PAINTING: MECHANICAL CONTRACTOR WILL PROVIDE PRIME PAINTING ON ALL FERROUS METALS SUCH AS SUPPORT STEEL OR HANGER FOR MECHANICAL PIPING AND EQUIPMENT, PIPING IS NOT TO BE PRIMED. ANY FINISH PAINTING OF MECHANICAL WORK REQUIRED, INCLUDING PAINTING OF PIPING AND STEEL EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE PAINTED BY THE MECHANICAL CONTRACTOR.
2. PLATFORM AND SUPPORTING STANDS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. HOLES REQUIRED FOR PIPING OR DUCTWORK OF SIZE 5" OR SMALLER SHALL BE CUT IN FIELD AT THE EXPANSE OF THE MECHANICAL CONTRACTOR. OWNER SHALL GIVE APPROVAL PRIOR TO ANY CUTTING. ALL LARGER HOLES SHALL BE PROVIDED BY OTHERS, AS DETAILED IN STRUCTURAL DRAWINGS.



REVISIONS

AN ADDITION FOR: BIG WOODS PATIO BAR BLOOMINGTON, IN 47408

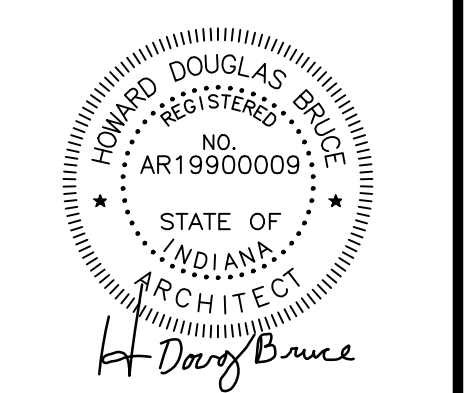


Table with project information: PROJECT NO. 1322, DATE DECEMBER 13, 2022, DRAWN BY XX, CHECKED BY D. BRUCE, SHEET NAME GENERAL PLAN INFORMATION, SHEET NO.

GENERAL PLAN INFORMATION

G003

FIRE PROTECTION NOTES:

1. THIS BUILDING IS NOT REQUIRED TO BE SPRINKLERED PER SECTION 903.

CODE SUMMARY 2014 INDIANA BUILDING CODE

CODE ITEM	CODE REFERENCE	VALUE	
OCCUPANCY CLASSIFICATION	SECTION 301	B	
OCCUPANCY USE TYPE	SECTION 301	BAR	
CONSTRUCTION TYPE	TABLE 602.1	VB	
MAXIMUM TRAVEL DISTANCE	SECTION 1016.2	LESS THAN 200FT (29'-5" ACTUAL)	
BUILDING DATA			
MAXIMUM HEIGHT (STORIES)	TABLE 503	1	2 STORY
R2 OCCUPANCY		1	2 STORY *
MAXIMUM HEIGHT (LIN. FT.)	TABLE 503	12 LF	40 LF PER 504.2
AREA W/ ALLOWABLE INCREASE (SQ. FT.) PER FLOOR	SECTION 506.1	-	-
TOTAL FIRST FLOOR EXISTING AREA (SQ. FT.)		432 SF	47 OCCUPANTS
TOTAL FIRST FLOOR ADDITION AREA (SQ. FT.)	(AREA OF WORK)	702 SF	
TOTAL BUILDING AREA (SQ. FT.)		1434 SF	6,000 TOTAL

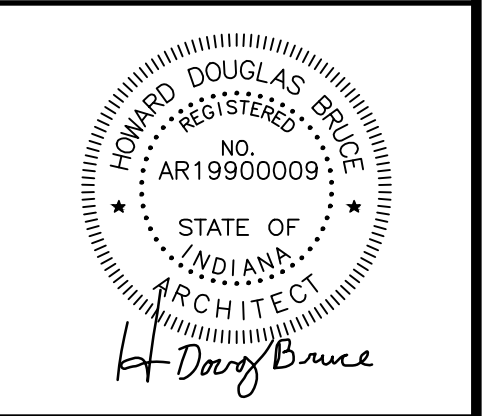
GENERAL NOTES:

- PER TABLE 705.8 WIDOW OPENINGS AS FOLLOWS:
- ALL WALLS LIMITED TO 15% MAX AREA OF OPENINGS.
 - NORTH WALL = 135 SQ.FT., 15% = 20, 15' ACTUAL PROVIDED
 - SOUTH WALL = 195 SQ.FT., 15% = 29.25, 29' ACTUAL PROVIDED
 - EAST WALL = 147.5 SQ.FT., 15% = 22, 20' ACTUAL PROVIDED
 - EXIT WIDTH PER SECTION 1005
 - .2 X OCCUPANT LOAD = .2 X 47 = 9.4" REQUIRED. 72" PROVIDED.
 - PER TABLE 1021, 1 EXIT REQUIRED, 2 PROVIDED.
 - OCCUPANT LOAD PER 1004.1.2 IS SQ.FT PER OCCUPANT = 47 OCCUPANTS.

REVISIONS

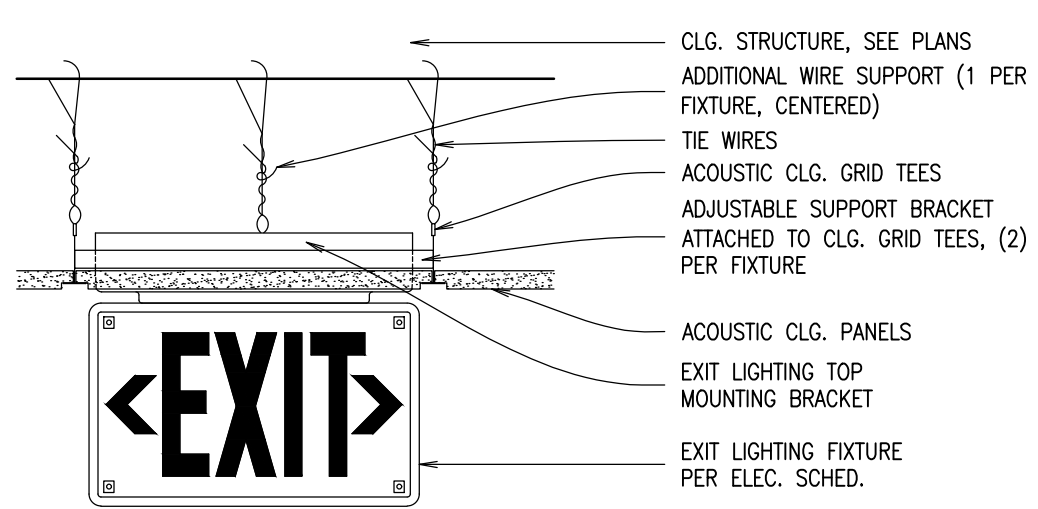
NO.	DESCRIPTION

AN ADDITION FOR:
BIG WOODS PATIO BAR
 120 N GRANT ST.,
 BLOOMINGTON, IN 47408

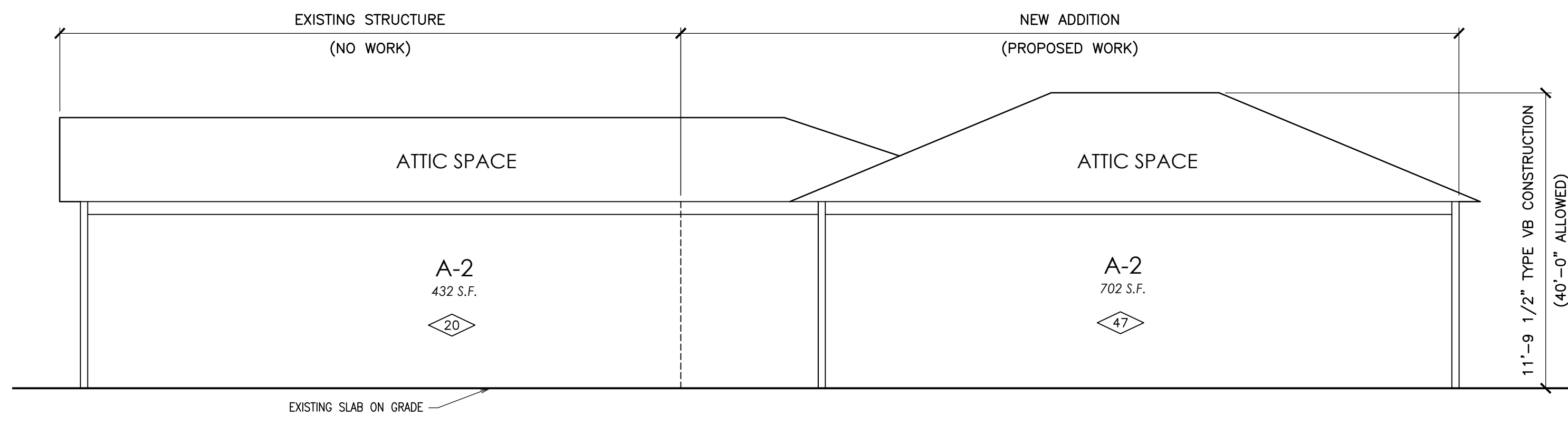


PROJECT NO. 1322
 DATE OCTOBER 17, 2023
 DRAWN BY S. MATTHEWS
 CHECKED BY D. BRUCE
 SHEET NAME LIFE SAFETY PLAN
 SHEET NO.

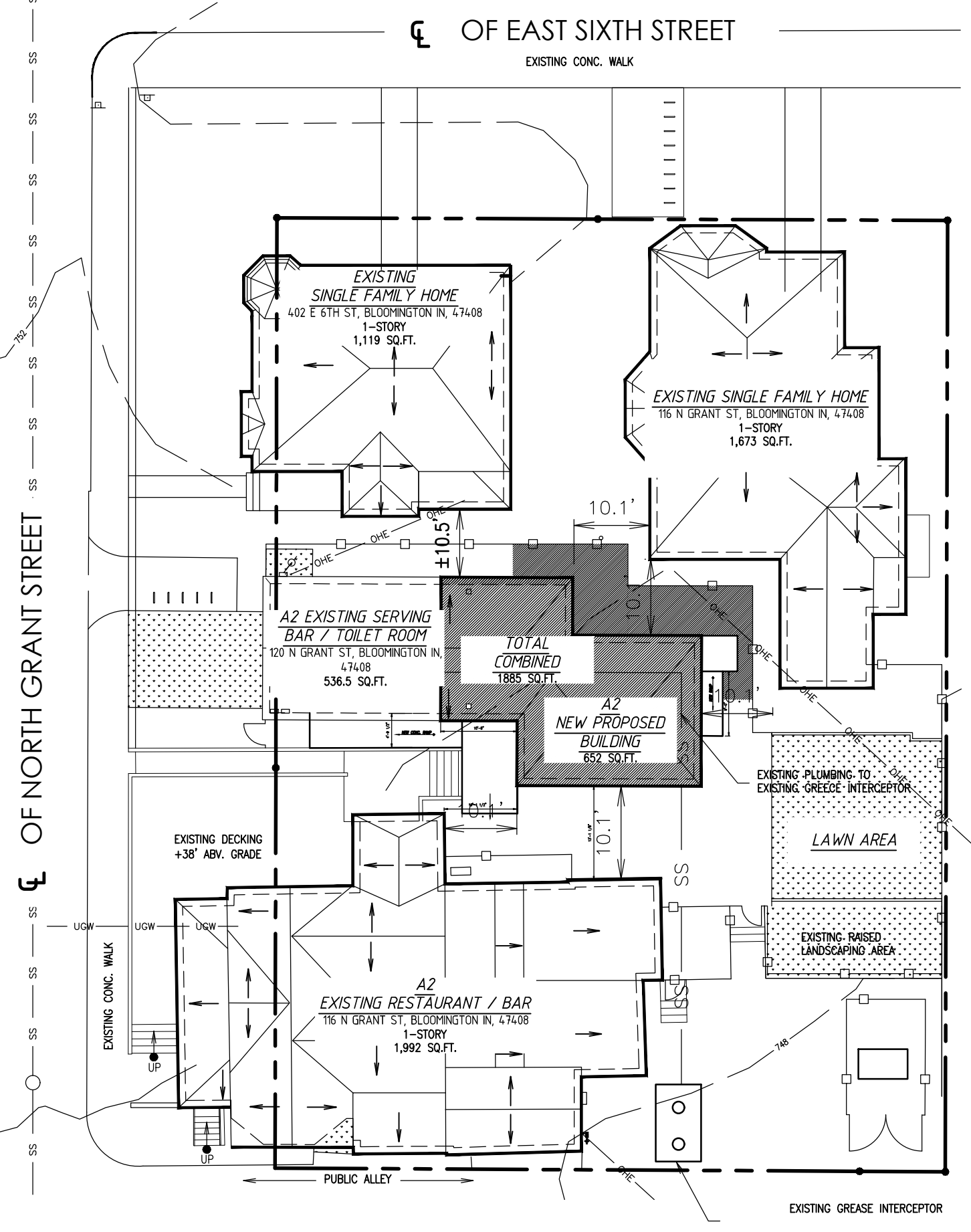
G1101



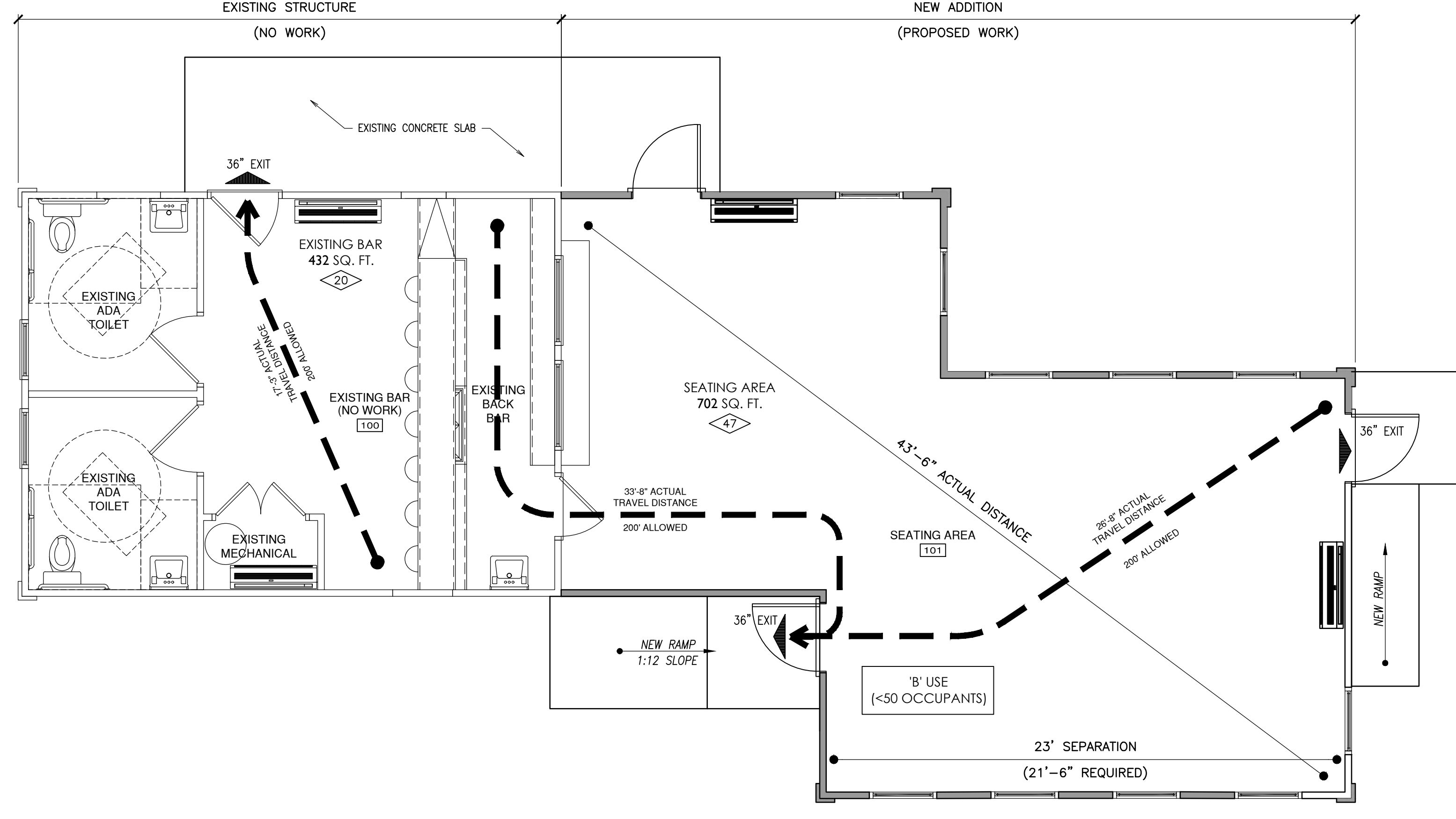
A EXIT SIGN DETAIL
NOT TO SCALE



3 LIFE SAFETY SECTION
NOT TO SCALE



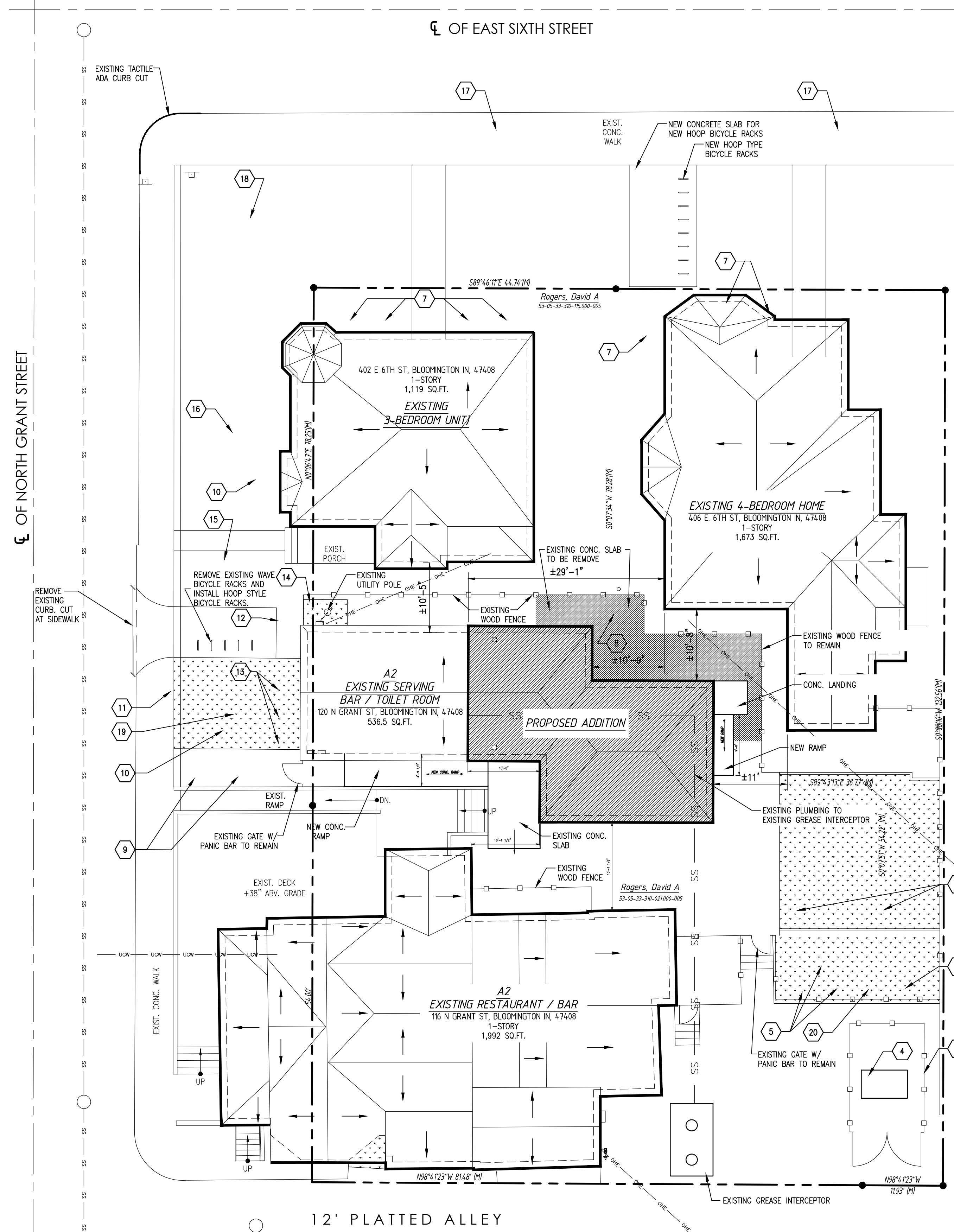
2 LIFE SAFETY SITE
NOT TO SCALE



1 LIFE SAFETY
1/4" = 1'-0"

CODE SUMMARY LEGEND

	ALL WALLS SEPARATING THE INDICATED ROOM FROM ADJACENT INTERIOR SPACES SHALL COMPLY WITH THE FOLLOWING: INCIDENTAL USE NON-RATED SMOKE RESISTANT SEPARATION WALLS TO EXTEND TIGHT TO FLOOR OR ROOF DECK ABOVE. DOORS TO BE SELF-CLOSING OR AUTOMATIC-CLOSING UPON DETECTION OF SMOKE.		EXIT
	NEW FIRE EXTINGUISHER BOX LOCATION EXTINGUISHER: LARSEN MP5, 5LB. 2A-10 B/C EXTINGUISHER CABINET: LARSEN MEDALLION SERIES RECESSED FS BZ 2409-R3, FIRE RATED W/ VERT. DUO DOOR W/ ACRYLIC DOOR STANDARD #4 BRUSHED BRONZE FINISH		(PH) DOORS WITH PANIC HARDWARE
			1/2 HOUR RATED FIRE BARRIER WITH 3/4 HOUR MINIMUM OPENING PROTECTION. FIRESTOP ALL PENETRATIONS AND TOP OF WALL.
	MAJOR EGRESS ROUTES		1 HOUR RATED FIRE BARRIER WITH 3/4 HOUR MINIMUM OPENING PROTECTION. FIRESTOP ALL PENETRATIONS AND TOP OF WALL.
	SIGNIFIES 45 MIN. FIRE RATED DOOR ASSEMBLY, ALSO SEE DOOR SCHEDULE SHEET.		SIGNIFIES 1.5 HOUR FIRE RATED DOOR ASSEMBLY W/ PANIC HARDWARE, ALSO SEE DOOR SCHEDULE SHEET.



1 ARCHITECTURAL SITE PLAN
 1" = 10'-0"
 TOTAL FOOTPRINT = 3,250 SF

THIS SITE PLAN HAS BEEN CREATED FROM THE MONROE COUNTY G.I.S. SYSTEM. DISCREPANCIES DO EXIST BETWEEN SOME EXISTING MEASUREMENTS AND G.I.S. SURPLUED DATA. INFORMATION BASED UPON THE USE OF THESE DRAWINGS SHALL BE VERIFIED WITH A CIVIL ENGINEER OR STAMPED SURVEY. THE ARCHITECT MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED OF THE DATA CONTAINED ON THIS DRAWING.

SITE PLAN KEYNOTES:

- 1 DASHED LINE INDICATES IMAGINARY LOT LINE BETWEEN BUILDINGS.
- 2 THESE ACTUAL PROPERTY LINES WILL NEED TO "GO AWAY", OR AN EASEMENT MADE AND A STATIC VARIANCE SOUGHT, TO BUILD A SINGLE STORY BUILDING OVER THEM.
- 3 EXISTING WOOD DUMPSTER ENCLOSURE.
- 4 EXISTING DUMPSTER.
- 5 EXISTING POTTED BOXWOOD SHRUB.
- 6 EXISTING BLUE FESCUE GRASS TO REMAIN.
- 7 PROPOSED JAPANESE JUNIPER SHRUBS
- 8 EXISTING POTTED CHERRY PLUM TO REMAIN.
- 9 EXISTING DECORATIVE GRASSES TO REMAIN.
- 10 EXISTING PLANTING BED TO REMAIN. (DAY LILIES)
- 11 EXISTING SWEET CHERRY TREE TO REMAIN.
- 12 EXISTING SMOOTH LENT WILLOW SHRUB TO REMAIN.
- 13 EXISTING BOXWOOD SHRUBS TO REMAIN.
- 14 EXISTING TREE OF HEAVEN TO BE REMOVED. (INVASIVE SPECIES)
- 15 EXISTING PLANTERS BED TO REMAIN. (POET'S NARCISSUS)
- 16 EXISTING JAPANESE CHERRY DECORATIVE TREE TO REMAIN
- 17 EXISTING STREET TREES TO REMAIN. (JAPANESE ZILKER)
- 18 PROPOSED STREET TREE (WHITE OAK)
- 19 EXISTING STREET TREES TO REMAIN. (NORTHERN WHITE CEDAR)
- 20 EXISTING CHINA PINK DANTHUS

UTILITY NOTES

1. MS. : IF SHOWN ON THE PLANS, MINIMUM SEWER ELEVATION, IT INDICATES THE LOWEST FLOOR ELEVATION THAT WILL ALLOW GRAVITY SEWER CONNECTION WITHOUT A SPECIAL BLACK WATER VALVE. ANY FLOOR ELEVATION THAT WILL BE SERVED BY GRAVITY SEWER MUST BE ABOVE THE RIM ELEVATION OF THE UPSTREAM SANITARY MANHOLE. IF NOT A BACKWATER VALVE MUST BE INSTALLED ACCORDING TO THE UNIFORM PLUMBING CODE.
2. SEE DRAWINGS & SPECIFICATIONS FOR SIZES OF WATER SERVICE LINES AND SEWER LATERALS NOT SPECIFICALLY NOTED ON THE PLANS.
3. ALL EXISTING SANITARY MAINS, WYES SHALL BE CUT AND SLEEVED IN PLACE BY CITY OF BLOOMINGTON UTILITIES PERSONNEL WITH THE CITY OF BLOOMINGTON UTILITIES FURNISHING ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY FOR INSTALLATION. DEVELOPER SHALL PROVIDE ALL NECESSARY EXCAVATION, SHORING, BACKFILL, AND SURFACE REPAIR. PLEASE CONTACT BYRON REINHOLD AT (812) 349-3627 FOR MORE INFORMATION.
4. WHEN CONNECTING A NEW PIPE TO AN EXISTING MAN HOLE, THE MAN HOLE SHALL BE CORE-DRILLED. PIPE SHALL BE CONNECTED TO THE MAN HOLE BY EITHER A FLEXIBLE BOOT KOR-N-SEAL 1 OR 2 FLEXIBLE CONNECTOR OR APPROVED EQUAL. TABLE AND TROUGH SHALL BE MODIFIED AS NECESSARY TO DIRECT TO THE FLOW FROM THE NEW PIPE. INVERT OF CONNECTION SHALL BE NO MORE THAN ONE FOOT HIGHER THAN THE INVERT OUT FOR THIS STRUCTURE.
5. IN ACCORDANCE WITH SECTION 4.5.2.1.5.1 OF THE CBU CONSTRUCTION SPECIFICATIONS ALL SEWER LATERALS SHALL HAVE ALL CLEAN-OUTS. THE SHALL BE IN GRASSY AREAS OR IN PAVEMENT & SHALL BE SUB-SURFACE AND PROTECTED BY A SUITABLE METAL CASTING SUCH AS EAST JORDAN CATALOGUE NO. R-1974-A. IN GRASSY AREAS, THE CASTING SHALL BE PROVIDED WITH A CIRCULAR CONCRETE COLLAR FLUSH WITH THE TOP OF THE CASTING AND THE GROUND SURFACE. THE COLLAR SHALL BE MINIMUM 6" THICK AND SHALL EXTEND AT LEAST 8" BEYOND THE OUTSIDE OF THE CASTING ON ALL SIDES. IN PAVEMENT, THE TOP OF THE CASTING SHALL BE FLUSH WITH THE SURROUNDING PAVEMENT. THE TOP OF THE CLEAN-OUT SHALL BE NO MORE THAN 3" BELOW THE TOP OF THE CASTING. A #10 INSULATED SOLID COPPER LOCATOR WIRE SHALL BE WRAPPED AROUND ALL NON-METALLIC PIPES SO THAT ONE REVOLUTION IS MADE AT LEAST EVERY PIPE JOINT. SPLICES ARE TO BE MADE WITH AN APPROVED CONNECTOR, AND ARE TO BE SUITABLY PROTECTED AGAINST CORROSION. THE WIRE IS TO BE BROUGHT TO THE SURFACE WITH A CLEAN-OUT IN A CASTING. ALSO SEE THE CBU CONSTRUCTION SPECIFICATIONS FOR THE STANDARD SANITARY LATERAL CLEAN-OUT DETAIL #19'
6. WHEREVER C900 PIPE IS USED FOR SEWER, ALL WYES SHALL BE HARCO, SIZED FOR C900 ON THE RUN AND SDR-35 ON THE BRANCH. TRANSITION FROM C900 TO SDR-35 PIPE SHALL BE MADE BY USE OF A HARCO C-900 TO SDR-35 ADAPTER WYES.
7. ALL D.I.P. USED FOR SANITARY SEWER SHALL HAVE CERAMIC EPOXY LINING, MINIMUM THICKNESS 40 MILS, AND SHALL BE PROTECTED 401, AS MANUFACTURED BY INDURON PROTECTIVE COATINGS. WYES FOR D.I.P. SHALL BE HARCO D.I.P. TO SDR-35 ADAPTER WYES.
8. A PERMANENT INDICATING VALVE IS TO BE INSTALLED 12" ABOVE THE FLOOR ON THE FIRE LINE AT THE TERMINATING POINT. THIS VALVE WILL BE USED TO HYDROSTATIC PRESSURE TEST AGAINST, AND WILL REMAIN AS PART OF THE SYSTEM ONCE ALL IS COMPLETE. THE LINE WILL NOT BE DISMANTLED FOR CONNECTION TO THE FIRE SUPPRESSION SYSTEM.
9. ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT THE UTILITIES TECHNICIAN @ (812) 349-3633 TO SCHEDULE A MEETING.
10. CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPT. ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM, OR SANITARY SEWER UTILITY WORK. A CBU INSPECTOR MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, & PROPER AS-BUILT MADE. WHEN A CONTRACTOR WILL PERFORM WORK ON A WEEKEND, A CBU DESIGNATED HOLIDAY, OR BEYOND NORMAL CBU WORK HOURS, THE CONTRACTOR SHALL PAY THE INSPECTORS OVERTIME. FOR CBU WORK HOURS & HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPT. @ (812) 349-3660.

SITE LAYOUT NOTES:

- ALL DIMENSIONS SHOWN ARE MIN.
- ALL BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF FRAMING (U.O.O.)
- DOWNSPOUTS NEED TO CONNECT TO AN UNDERGROUND STORM WATER SYSTEM OR DRAIN TO DAYLIGHT IF ALLOWED.

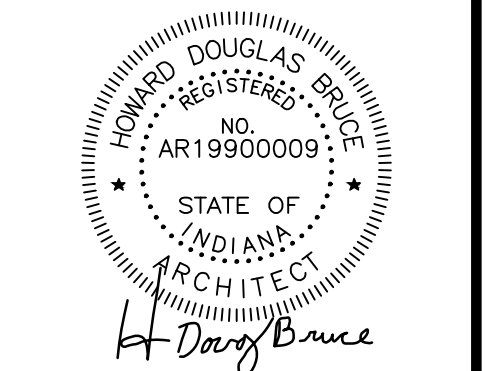
GENERAL SITE NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING & VERIFYING THAT ALL PERMITS & APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, & STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY LOC. & INVERT ELEVATIONS OF EXIST. SEWERS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL INCLUDE IN THEIR BID PROPOSAL COSTS FOR CUTTING & PATCHING AS REQ'D. TO COMPLETELY INSTALL THE NEW WORK INDICATED.
- CONTRACTOR SHALL INCLUDE ALL TAP FEES & APPLICATION FEES IN THEIR BID PROPOSAL AS NECESSARY TO COMPLETELY INSTALL THE WORK INDICATED.
- CONTRACTOR WILL COORDINATE EXACT UTILITY LOCATIONS W/ THE OWNER & LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR IS TO MAINTAIN A COMPLETE & OPERABLE UTILITY SYSTEM. UTILIZE PERMANENT &/OR TEMPORARY ROUTINGS TO ACCOMPLISH & MAINTAIN A FUNCTIONAL SYSTEM AT ALL TIMES.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK W/ OWNER REPRESENTATIVES & ADJUST HIS SCHEDULE TO OWNER REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE REMOVAL AND/OR RELOCATION OF IRRIGATION LINES & SPRINKLER HEADS W/ OWNER IF APPLICABLE.
- COORDINATE STORAGE & STAGING AREAS W/ OWNER.
- LOCAL REGULATIONS MUST BE REVIEWED TO INSURE THAT ALL PLAN REQUIREMENTS ARE MET.
- ALL APPLICABLE STATE (D.O.T.) & LOCAL (PUBLIC WORKS DEPT.) CONSTRUCTION STANDARDS & SPECIFICATIONS SHALL BE USED AS REQ'D. FOR SITE SPECIFIC ISSUES.
- ALL CURB RADI ARE 3' UNLESS OTHERWISE NOTED.



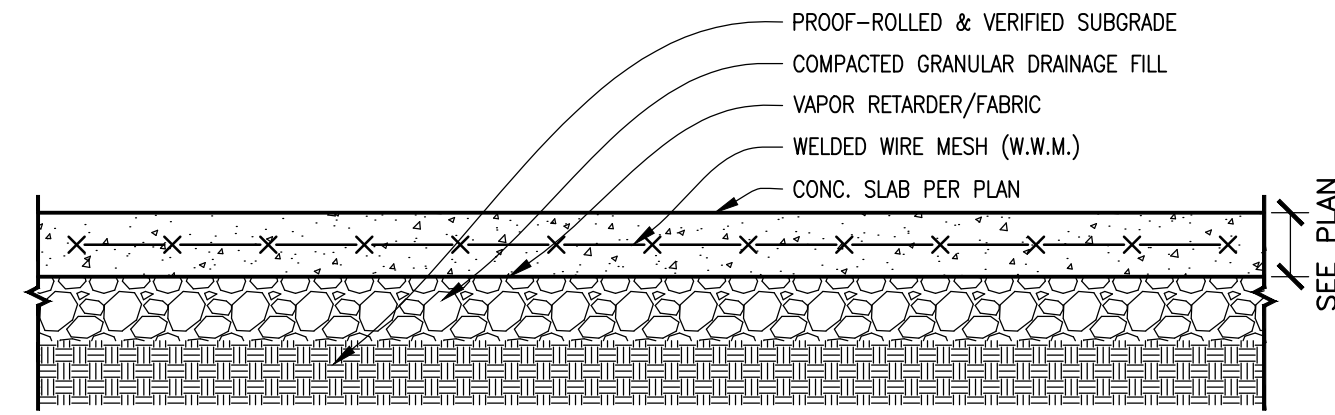
REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
 120 N GRANT ST.,
 BLOOMINGTON, IN 47408



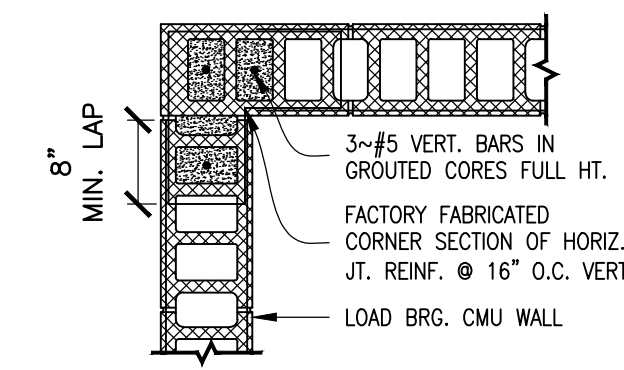
PROJECT NO. 1322
 DATE OCTOBER 17, 2023
 DRAWN BY S. MATTHEWS
 CHECKED BY D. BRUCE
 SHEET NAME
PROPOSED ARCHITECTURAL SITE PLAN
 SHEET NO.

AS100

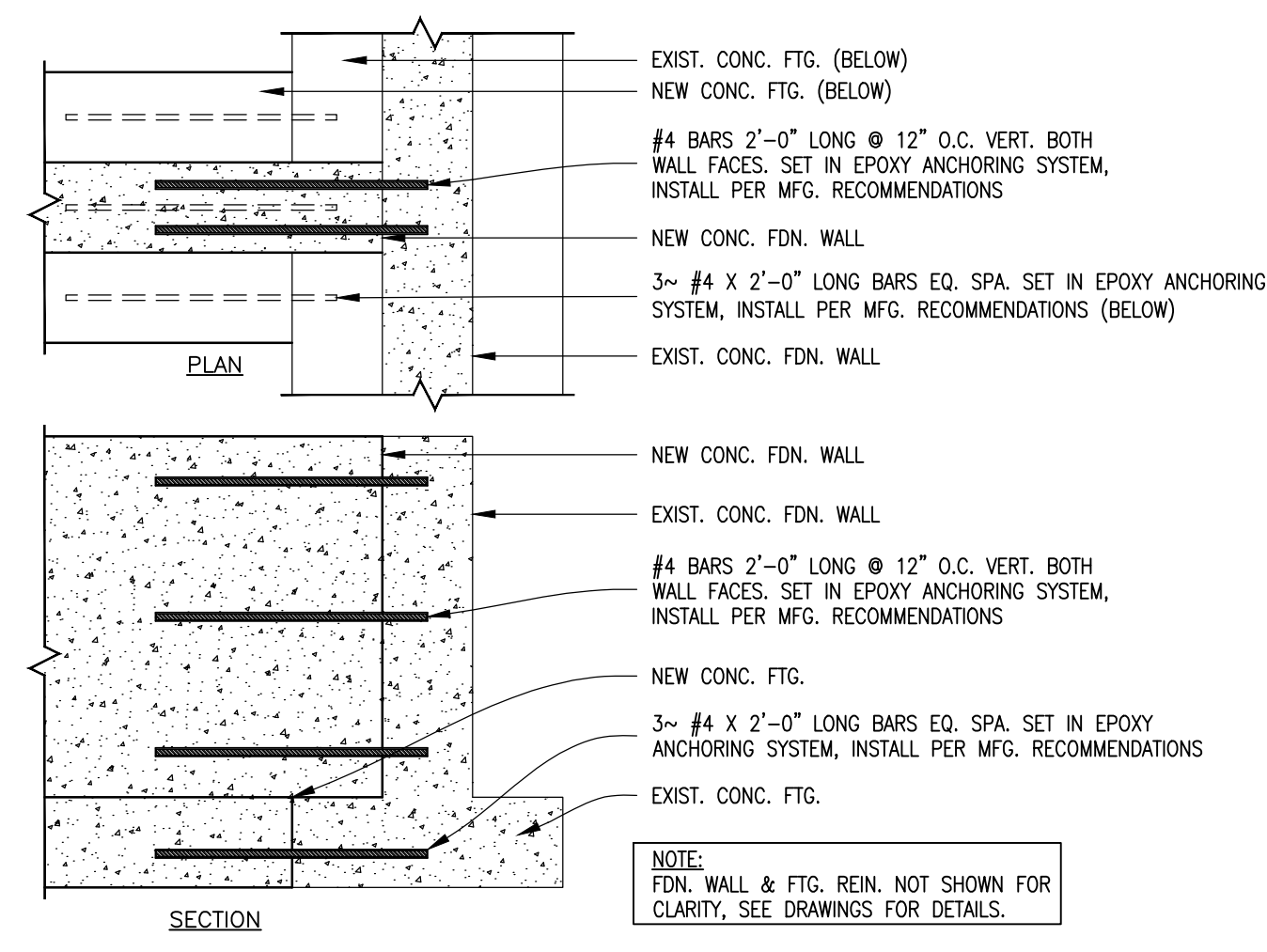


- NOTES:
- LOC. WELDED WIRE MESH (W.W.M.) IN UPPER THIRD OF SLAB. SUPPORT ON BOLSTERS, CHAIRS, OR CONC. BLOCKS.
 - LAP WELDED WIRE FABRIC A MIN. OF ONE FULL MESH SPACING.
 - THE USE OF NYLON OR POLYPROPYLENE FIBER IN LIEU OF WELDED WIRE FABRIC AS A SECONDARY REINF. IS PERMISSIBLE, U.N.O. FIBER MAY NOT BE SUBSTITUTED FOR W.W.F. IN SUPPORTED SLABS.
 - SEE PLANS, NOTES, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SUCH AS FINISH, JOINTING, CURING, ETC.

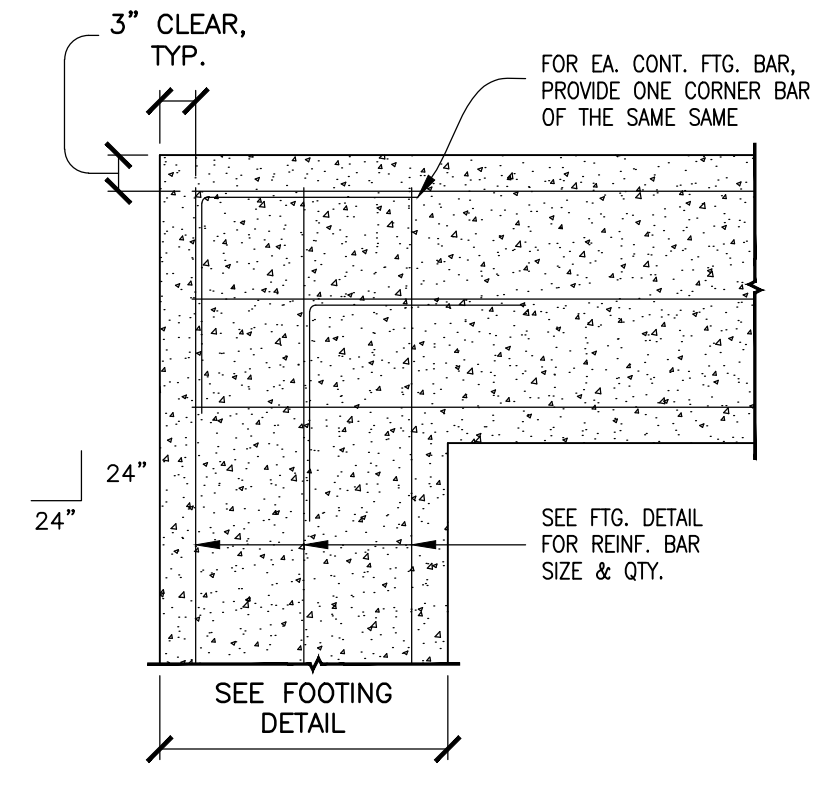
E CONC. SLAB ON GRADE DETAIL
1" = 1'-0"



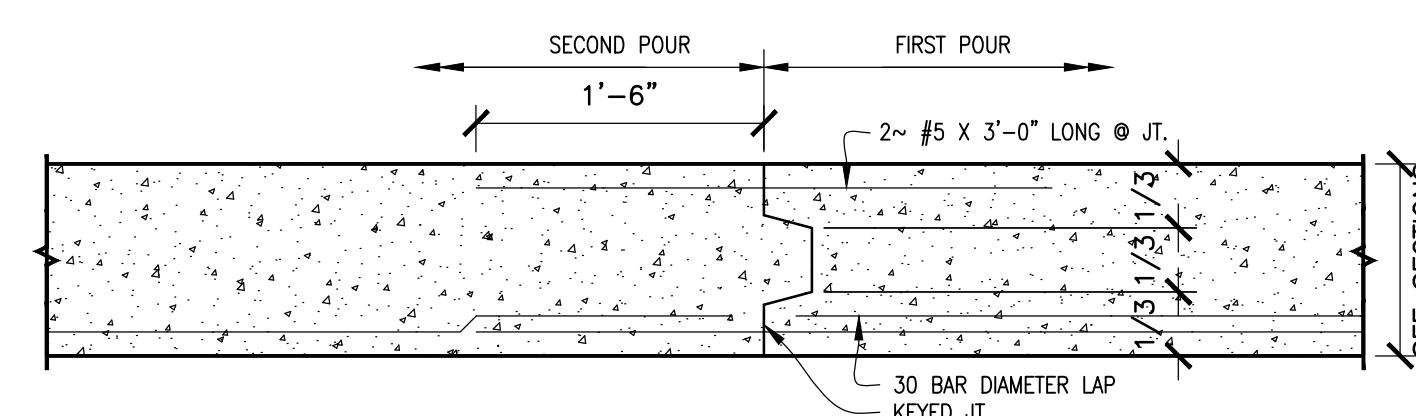
D TYP. HORIZ. JT. REINF. @ CMU WALL CORNER
3/4" = 1'-0"



A TYP. FDN. WALL SPLICE
3/4" = 1'-0"



C TYP. CONC. WALL FTG. CORNER
1" = 1'-0"



B TYP. CONC. WALL FTG. CONTROL JT.
1" = 1'-0"

FOUNDATION PLAN KEYNOTES:

- 4" (MIN.) CONCRETE SLAB WITH 6X6-W1.4XW1.4 W.W.M. OVER 1.5 MIL. VAPOR BARRIER OVER 4" (MIN.) COMPACTED CRUSHED STONE.
- HOLD DOWN CMU ONE COURSE, POUR CONC. SLAB THROUGH OPENING, TYP.

WALL FOOTING SCHEDULE

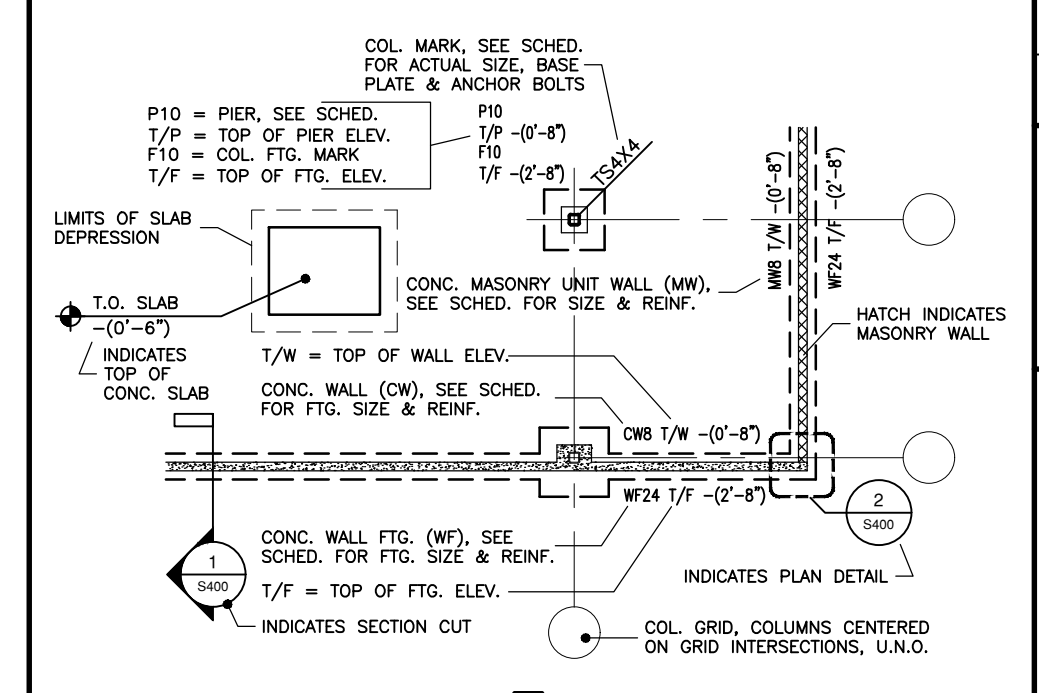
FOOTING MARK	FOOTING SIZE		FOOTING REINFORCING		REMARKS
	WIDTH	DEPTH	TRANSVERSE	LONGITUDINAL	
WF24	2'-0"	1'-0"	#4 @ 96" O.C.	2-#5 X CONT.	

- SEE DETAIL SHEET FOR TYP. CONSTRUCTION JOINT DETAIL.
- LAP FOOTING REINFORCING A MIN. OF 30 BAR DIAMETERS.

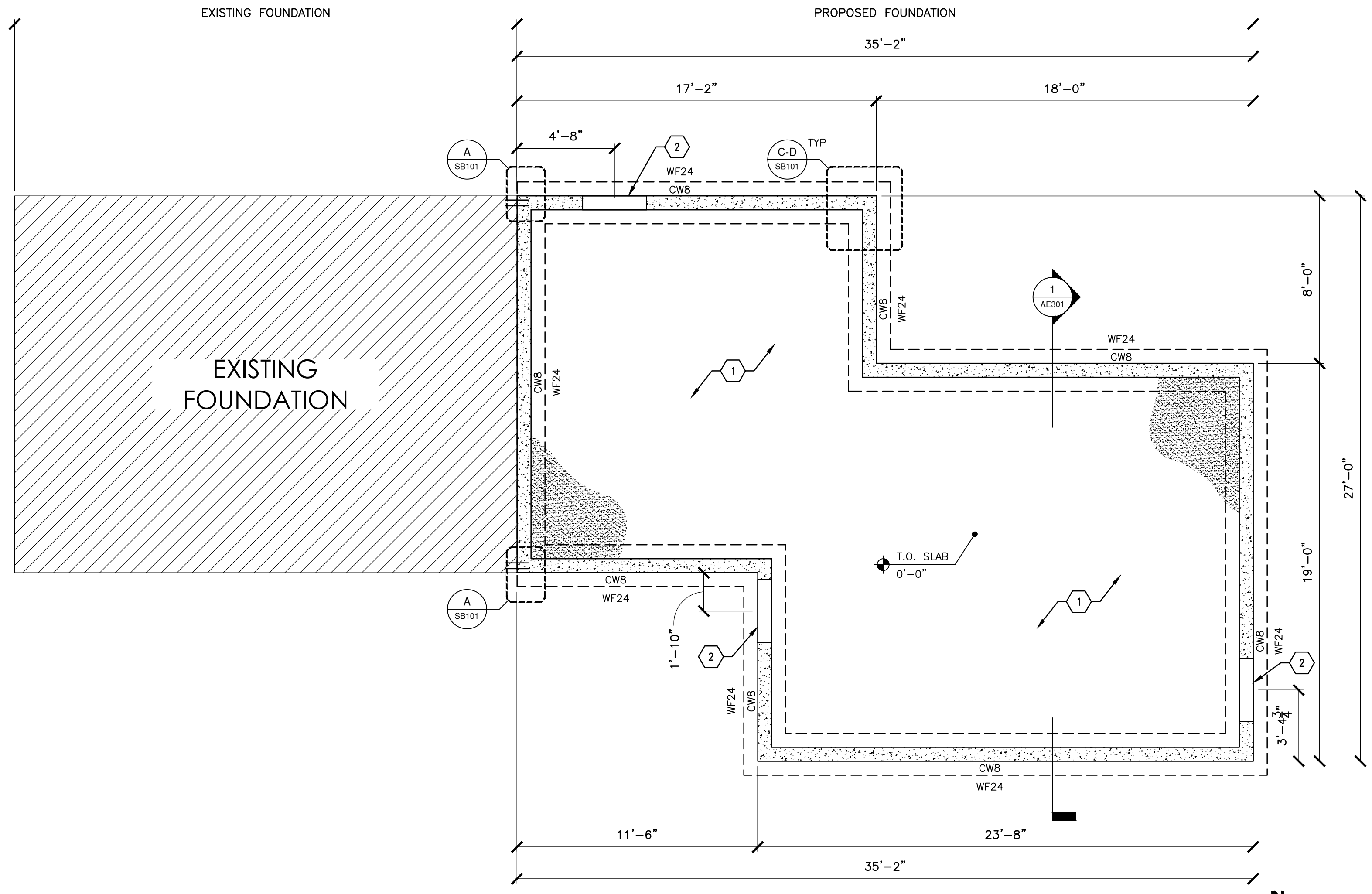
GENERAL FOUNDATION NOTES:

- ALL FORMWORK TO BE CONSTRUCTED PER ACI 301.4. EXPOSED VERTICAL EDGES TO HAVE 2" CHAMFER.
- CONCRETE SHALL BE PLACED PER ACI 301.8.
- EMBEDDED ITEMS SHALL BE INSTALLED PER ACI 301.6.
- CURING & PROTECTION OF CONCRETE SHALL BE PER ACI 301.12.
- SLAB CONCRETE SHALL BE 4000 P.S.I. W/ 6X6 W1.4XW1.4+ PROPORTIONED PER ACI 301.3.
- FOUNDATION WALL & FOOTING CONCRETE SHALL BE 3500 P.S.I., PROPORTIONED PER ACI 301.3.
- SLAB SURFACE TOLERANCE TO BE PER ACI 10.1, FINISH TO BE PER ACI 102.2.
- ALL REINFORCEMENT SHALL BE FURNISHED & INSTALLED PER ACI 301.5.
- ANCHOR BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH IBC 2000 REQUIREMENTS.
- PROVIDE 2" THICK X 2'-8" HIGH RIGID PERIMETER INSULATION @ BUILDING PERIMETER (TYPICAL).
- ALL POURED FOOTINGS ARE 24" X 12" WITH 3-#5 BARS.
- LOCAL SOIL CONDITIONS AND/OR LOCAL PRACTICE MAY NECESSITATE A MORE STRINGENT FOOTING & FOUNDATION WALL DESIGN. CONSULT WITH LOCAL CONTRACTOR OR BUILDING INSPECTOR. SOIL DESIGN BEARING PRESSURE IS ASSUMED 1500 P.S.F.
- BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE @ SIDES & ENDS WITH A MIN. BEARING OF 3".
- INSTALL A NOMINAL 4" DIA. PERFORATED DRAIN TILE WITH FILTER FABRIC BELOW THE TOP OF THE FOOTING & DRAIN TO DAYLIGHT.
- CONTRACTOR TO VERIFY FOUNDATION WALL LOCATIONS & COORDINATE WITH FLOOR PLANS BEFORE EXCAVATION & FRAMING OF BASEMENT/FOUNDATION WALLS. NOTIFY ARCHITECT IF DISCREPANCY IS FOUND.
- PROVIDE RUB-R-WALL MEMBRANE WATERPROOFING TO ALL POURED WALLS BELOW GRADE. INSTALL PER MANUFACTURERS INSTRUCTIONS.

SYMBOLS LEGEND:



- 1 DEMOLITION NOTE
- 1 REVISION NOTE
- 1 PLAN NOTE
- D.S. DOWNSPOUT LOCATION

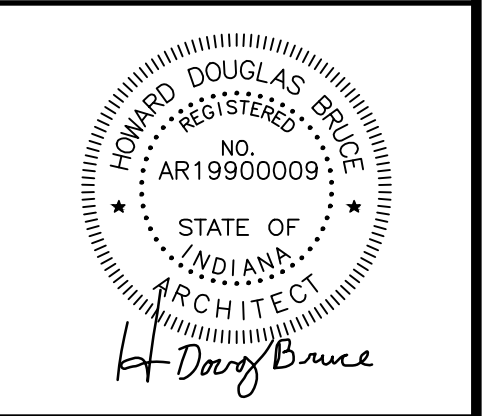


1 FOUNDATION PLAN
1/4" = 1'-0"



REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408



PROJECT NO.	1322
DATE	OCTOBER 17, 2023
DRAWN BY	S. MATTHEWS
CHECKED BY	D. BRUCE

FOUNDATION PLAN

SHEET NO.
SB101

DOOR AND FRAME SCHEDULE

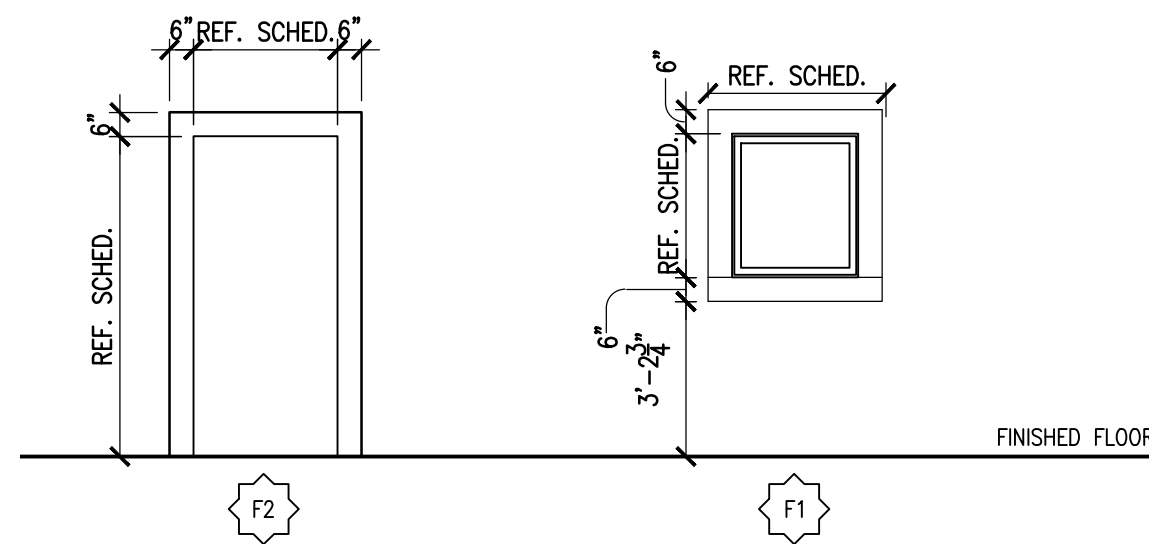
DOOR		SIZE			MATERIAL			GLAZING			FRAME			FIRE RATING LABEL	HARDWARE			STOP		MISC.			NOTES
MARK	ROOM #	WD	HGT	THK	MATL	ELEV	GLAZING	MATL	ELEV	HEAD	JAMB	SILL	LOCKSET FUNCTION		SET	PANIC BAR	WALL	FLOOR	CLOSER	COAT HOOK	KICK PLATE		
1 101	AE101	3'-0"	7'-0"	1 3/4"	WD	D1	YES	WD	F2	-	-	-	-	-	-	-	YES	YES	-	-	-		
2	AE101	3'-0"	7'-0"	1 3/4"	WD	D1	YES	WD	F2	-	-	-	-	-	-	-	YES	YES	-	-	-		
3	AE101	3'-0"	7'-0"	1 3/4"	WD	D1	YES	WD	F2	-	-	-	-	-	-	-	YES	YES	-	-	-		

WINDOW SCHEDULE

MARK	ELEV.	SIZE		TYPE	MATERIAL	MFG.	MODEL #	HEAD HT. LOCATION (A.F.F.)	FRAME			NOTES
		WIDTH	HEIGHT						HEAD	JAMB	SILL	
W1	1	2'-7 1/2"	2'-11 1/4"	OPERABLE CASEMENT WINDOW	ALUMINUM	ANDERSEN	400 SERIES CX13	6'-8"	-	-	-	TOTAL: 10

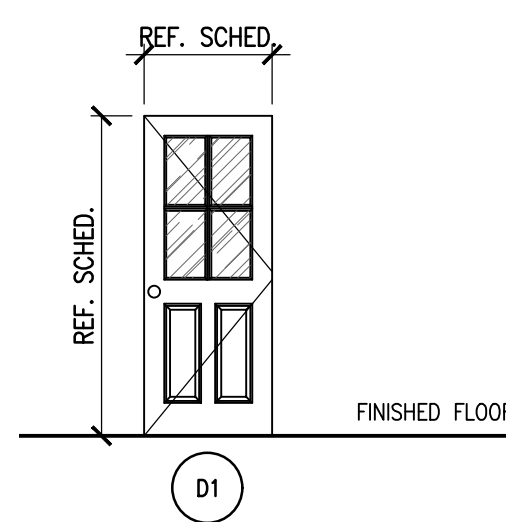
FLOOR PLAN KEYNOTES:

- NEW 2X WD. STUD WALL @ 16" O.C. AS INDICATED PER WALL TYPES. ALIGN W/ EXIST. WALL WHERE APPLICABLE & MATCH EXIST. FINISH.
- NEW SOLID CORE, STAIN WOOD CAR EXTERIOR DOOR WITH TEMPERED GLASS PANELS. PROVIDE DOOR, FRAME & HARDWARE. SEE SCHEDULE FOR SIZING. VERIFY WITH OWNER.
- NEW EXTERIOR INSUL. WINDOW. SEE SCHEDULE FOR SIZING. VERIFY WITH OWNER.
- PROVIDE AND INSTALL WOOD CAR SIDING / CHAIR RAIL TO BE 48" FROM FINISH FLOOR. PAINTED GYP BOARD ABOVE. VERIFY WITH OWNER.
- NEW GYP BOARD CEILING. VERIFY WITH OWNER.
- CONCRETE SLAB FLOOR.
- NEW TIMBER FRAME TRIM TO MATCH EXISTING.
- NEW MITSUBISHI MINI SPLIT SYSTEM. SEE MECHANICAL PLAN FOR DETAILS.



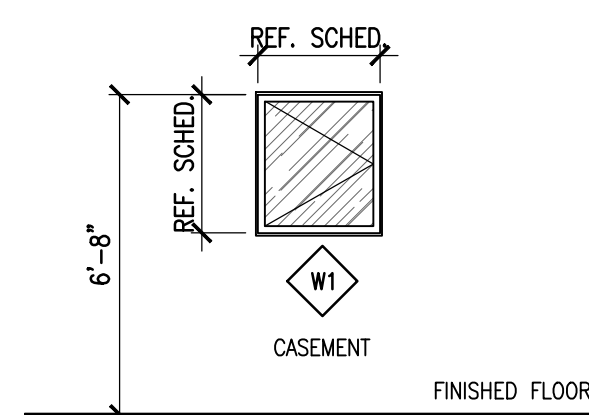
FRAME TYPES

1/4" = 1'-0"



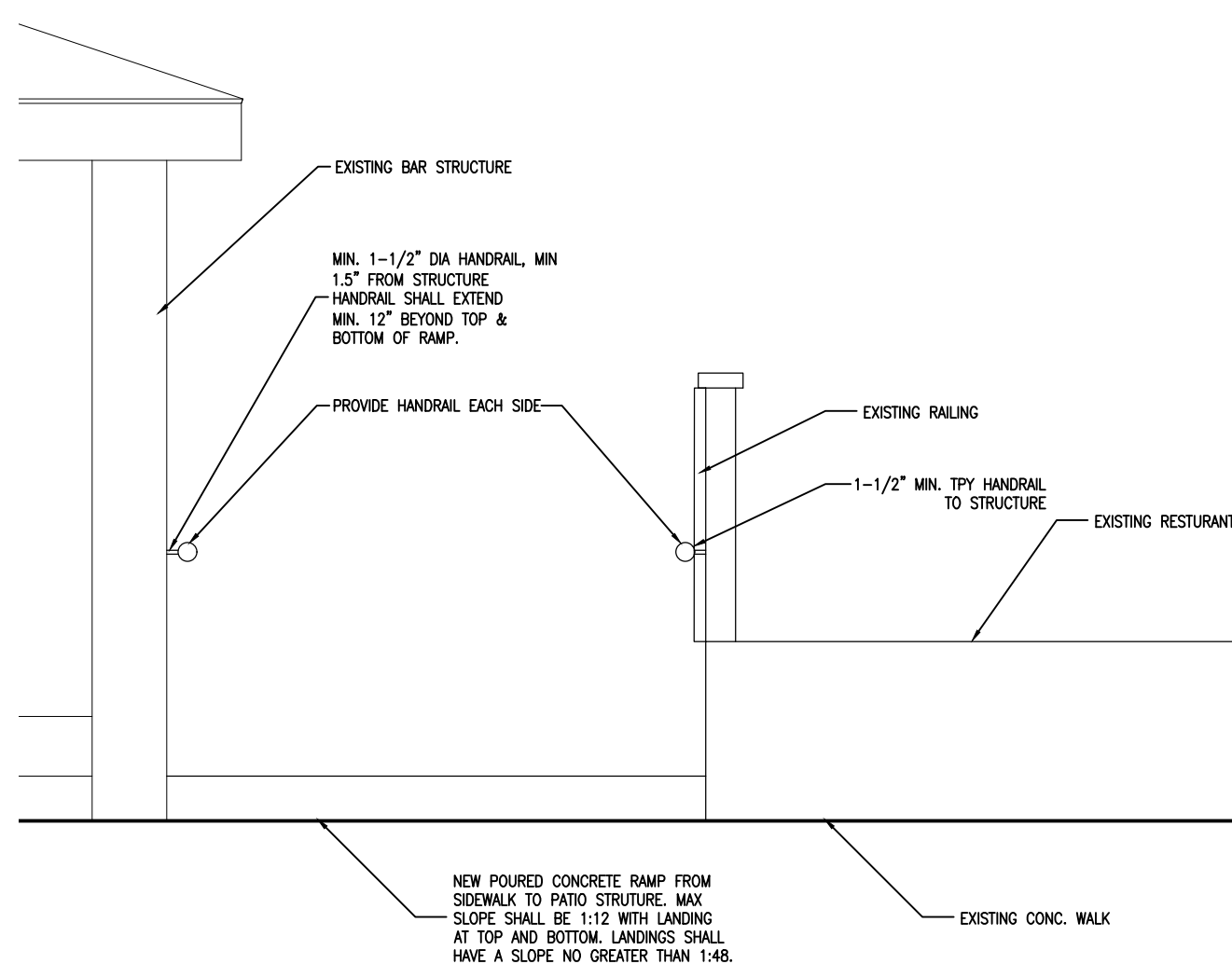
DOOR TYPES

1/4" = 1'-0"



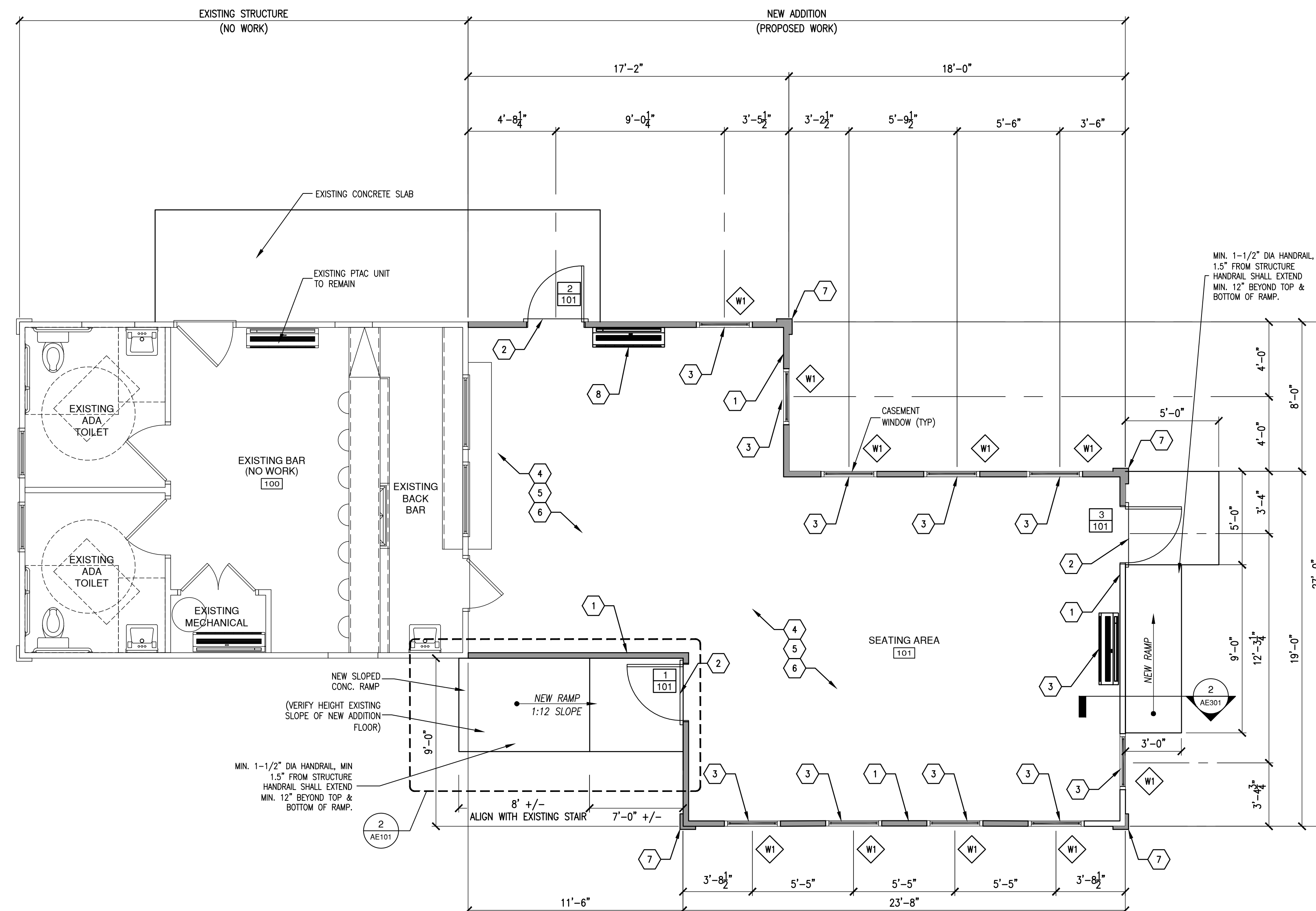
WINDOW TYPES

1/4" = 1'-0"



2 PROPOSED CONC. RAMP

1/2" = 1'-0"



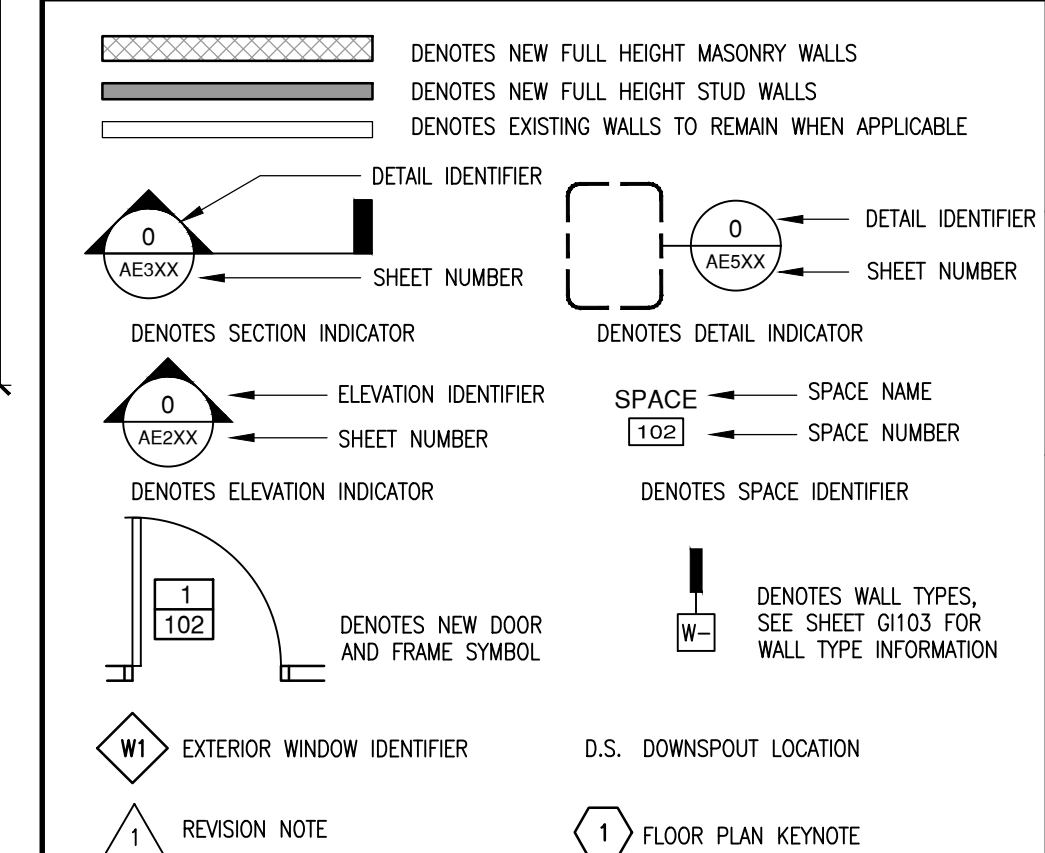
1 MAIN LEVEL FLOOR PLAN

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES:

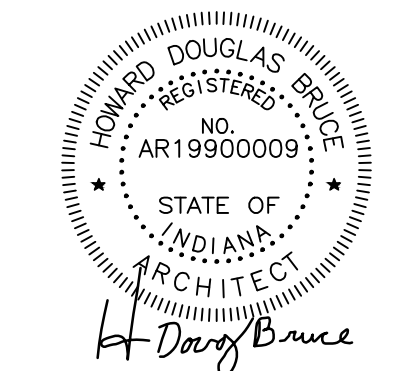
- DO NOT SCALE DRAWINGS. DIMENSIONS SHALL PREVAIL. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS RELATED TO THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. IF CONTRACTOR FAILS TO VERIFY DIMENSIONS AS INDICATED, ANY AND ALL CORRECTIVE ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL INTERIOR DIMENSIONS ARE SHOWN STUD TO STUD & DO NOT INCLUDE WALL FINISHES.
- ALL DOOR OPENINGS SHALL BE LOCATED 4" FROM ADJOINING WALL UNLESS NOTED OTHERWISE.
- FIELD VERIFY PLAN DIMENSIONS PRIOR TO ANY CASEWORK FABRICATION.
- ALL NEW WALLS SHALL BE FINISHED TO MATCH EXISTING SURFACES INCLUDING PRIMER & PAINT.
- CAULK ALL JOINTS BETWEEN DIFFERENT MATERIALS IE: GYPSUM BOARD & MASONRY.
- ALL WINDOWS WITHIN 24" OF ANY DOOR (REGARDLESS OF WALL PLANE), & WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE FLOOR OR WALKING SURFACE SHALL HAVE TEMPERED GLAZING.
- ANY OPERABLE WDW'S. W/ SILL LESS THAN 36" ABV. FIN. FLR. SHALL BE EQUIPPED W/ A OPENING CONTROL DEVICE PER 1013.8.1.
- IF NO WINDOW SCHEDULE IS PRESENT, CONTRACTOR/OWNER SHALL PROVIDE A MIN. OF 1 CODE COMPLIANT EGRESS WINDOW IN EVERY SLEEPING ROOM.
- SIZE OF STAIR RISERS MAY VARY ACCORDING TO SIZE OF FLOOR SYSTEM.
- ALL INTERIOR WALLS SHALL BE 2 X 4 STUDS @ 16" O.C. W/ 5/8" GYP. BOARD ON BOTH SIDES UNLESS NOTED OTHERWISE.

SYMBOLS LEGEND:



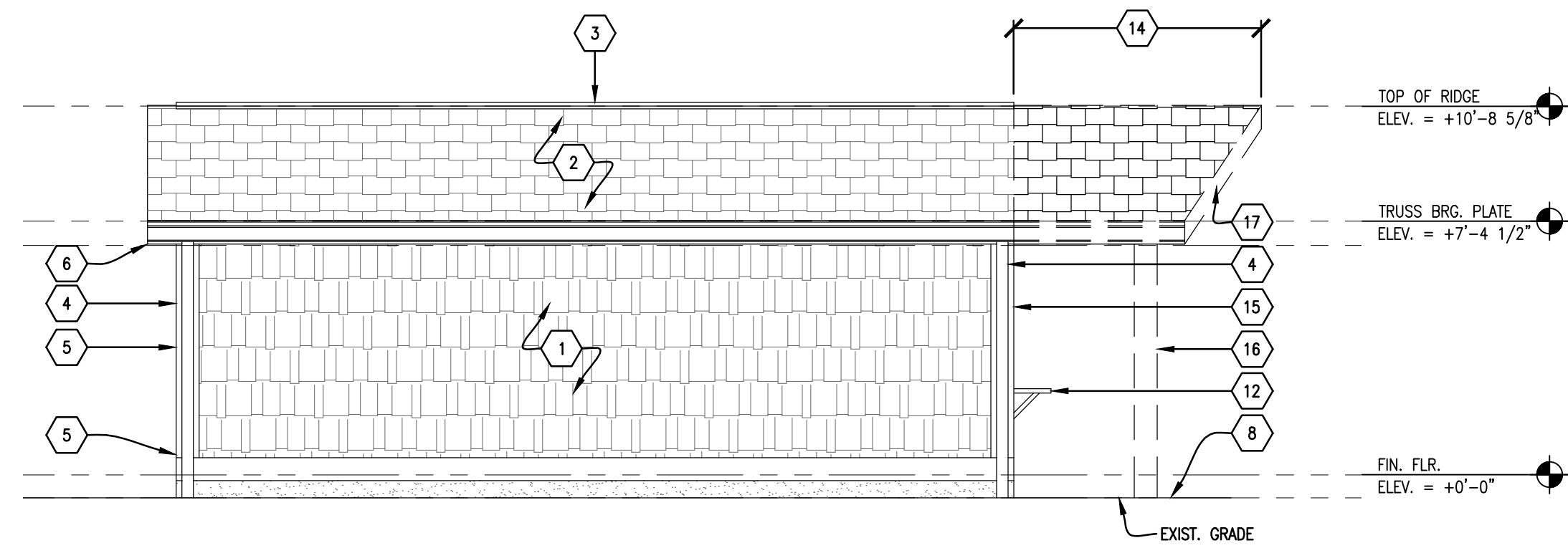
REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408

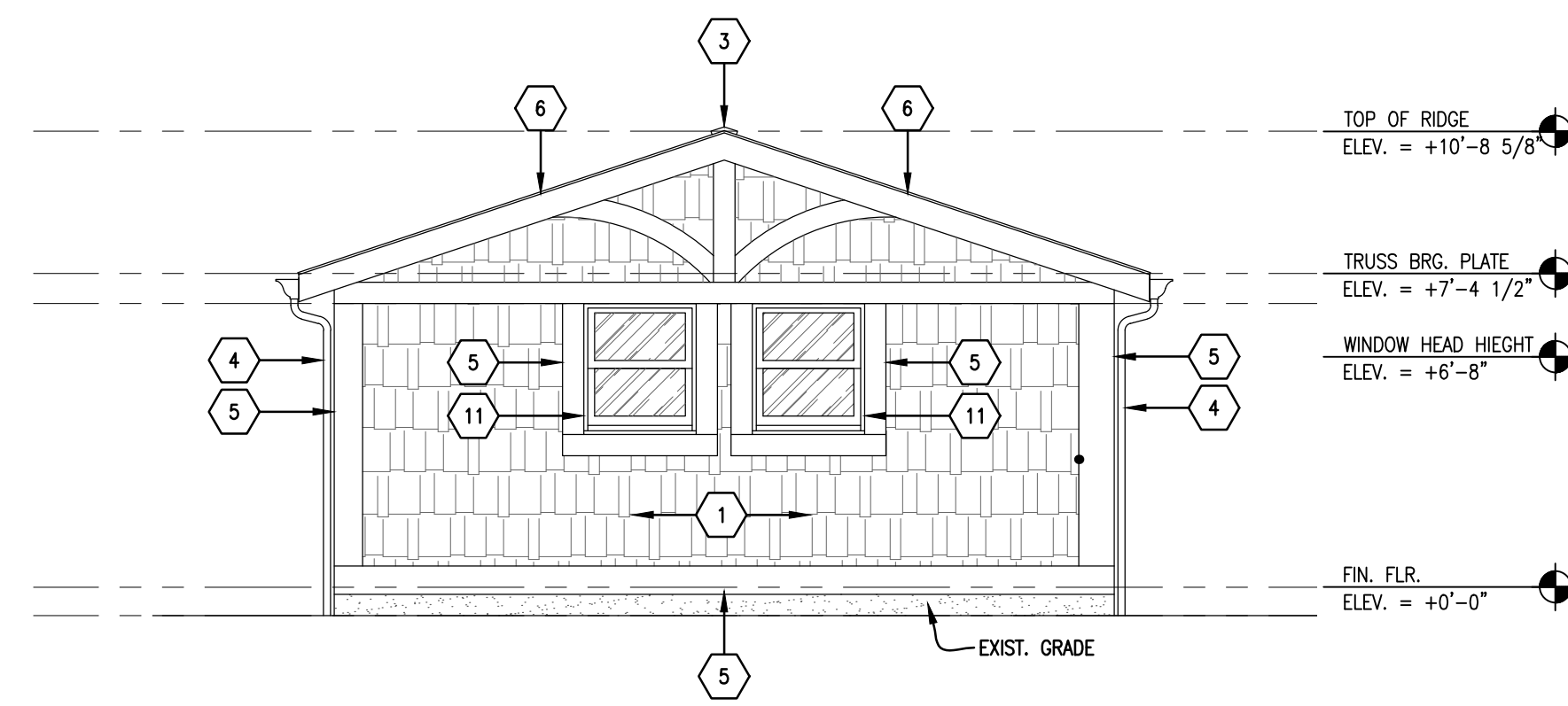


PROJECT NO. 1322
DATE OCTOBER 17, 2023
DRAWN BY S. MATTHEWS
CHECKED BY D. BRUCE
SHEET NAME
MAIN LEVEL FLOOR PLAN
SHEET NO.

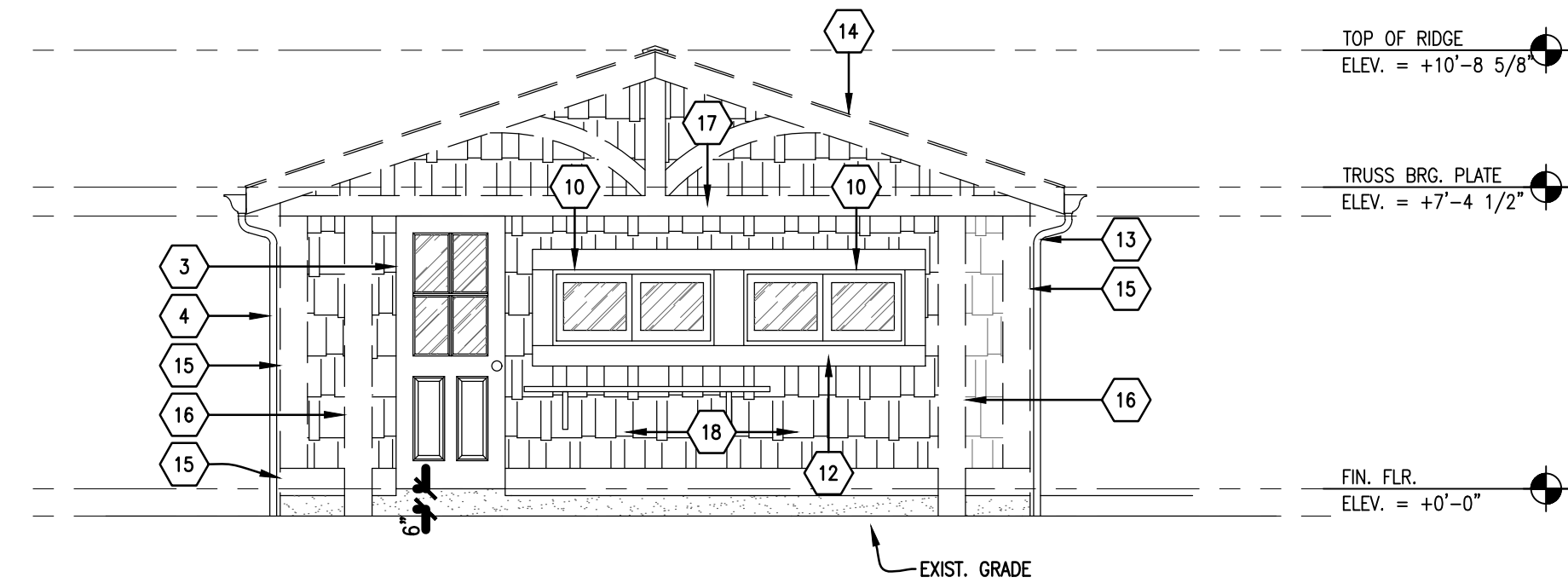
AE101



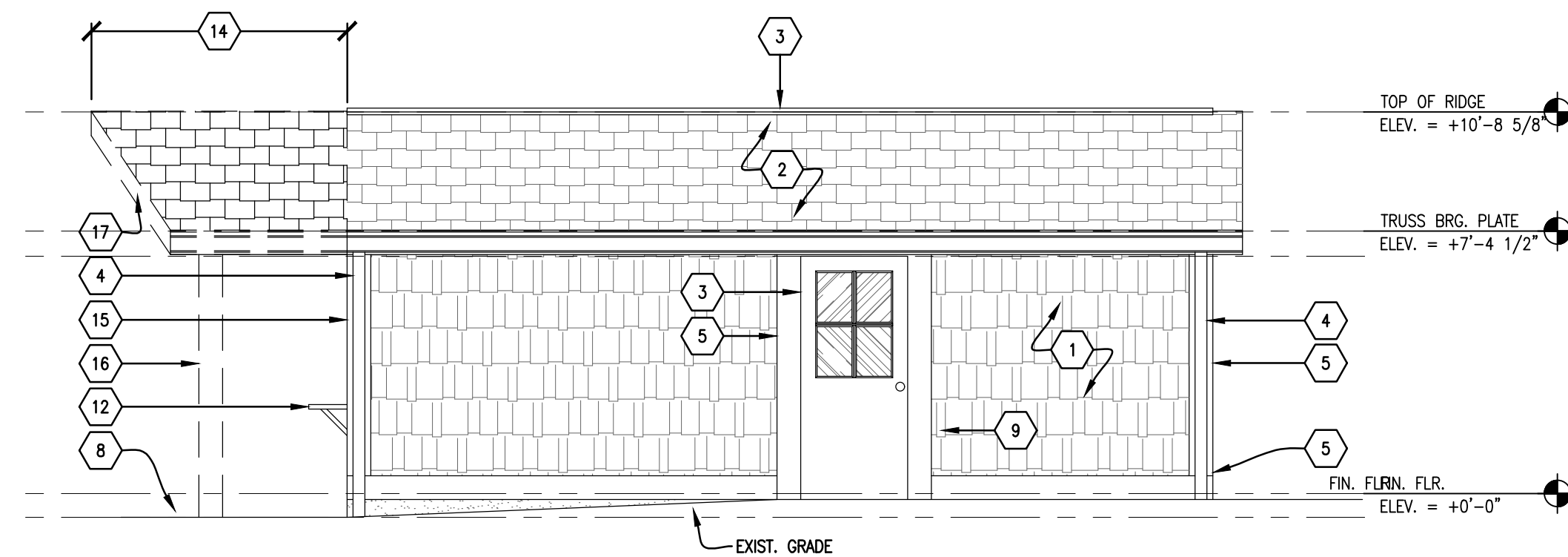
4 EXISTING SOUTH EXTERIOR ELEVATION
1/4" = 1'-0"



2 EXISTING WEST EXTERIOR ELEVATION
1/4" = 1'-0"



3 EXISTING EAST EXTERIOR ELEVATION
1/4" = 1'-0"



1 EXISTING NORTH EXTERIOR ELEVATION
1/4" = 1'-0"

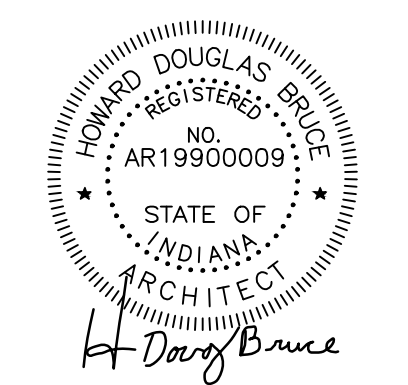
ELEVATION KEYNOTES:

- | | | | | | |
|---|---|----|---|----|---|
| 1 | EXISTING ALURRA FIBER CEMENT SHAKE PANELS. | 8 | EXISTING CONCRETE PAD. | 15 | EXISTING TIMBER FRAME TRIM TO BE REMOVED. |
| 2 | EXISTING 25 YEAR ASPHALT SHINGLE ROOF SYSTEM OVER ONE LAYER. | 9 | EXISTING TR. WD. ACCESSIBLE RAMP. | 16 | EXISTING TIMBER FRAME POST TO BE REMOVED. |
| 3 | EXISTING CONTINUOUS RIDGE VENT @ ROOF RIDGE. | 10 | EXISTING ANDERSEN 400 SERIES GLIDING WDW. | 17 | EXISTING TIMBER FRAME BEAM TO BE REMOVED. |
| 4 | REMOVE AND DISPOSE EXISTING 6" K-STYLE PRE-FINISHED SEAMLESS ALUM. .032GA GUTTERS @ ALL ROOF EDGES ALONG BTM. | 11 | EXISTING ANDERSEN 400 SERIES DBL. HUNG WDW. | 18 | FIBER CEMENT SHAKE PANELS TO BE REMOVED. |
| 5 | EXISTING TIMBER FRAME TRIM. | 12 | EXISTING WDW. SERVICE COUNTER. | | |
| 6 | EXISTING TIMBER FRAME FASCIA & RAKE BD. | 13 | EXISTING EXTERIOR INSUL. MTL. DOOR & FRAME. | | |
| 7 | EXISTING TIMBER FRAME POST. | 14 | EXISTING ROOF TO BE REMOVED. | | |



REVISIONS

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PROJECT NO. 1322
DATE OCTOBER 17, 2023
DRAWN BY S. MATTHEWS
CHECKED BY D. BRUCE

EXISTING EXTERIOR ELEVATIONS

SHEET NO.

AD201

DOOR AND FRAME SCHEDULE

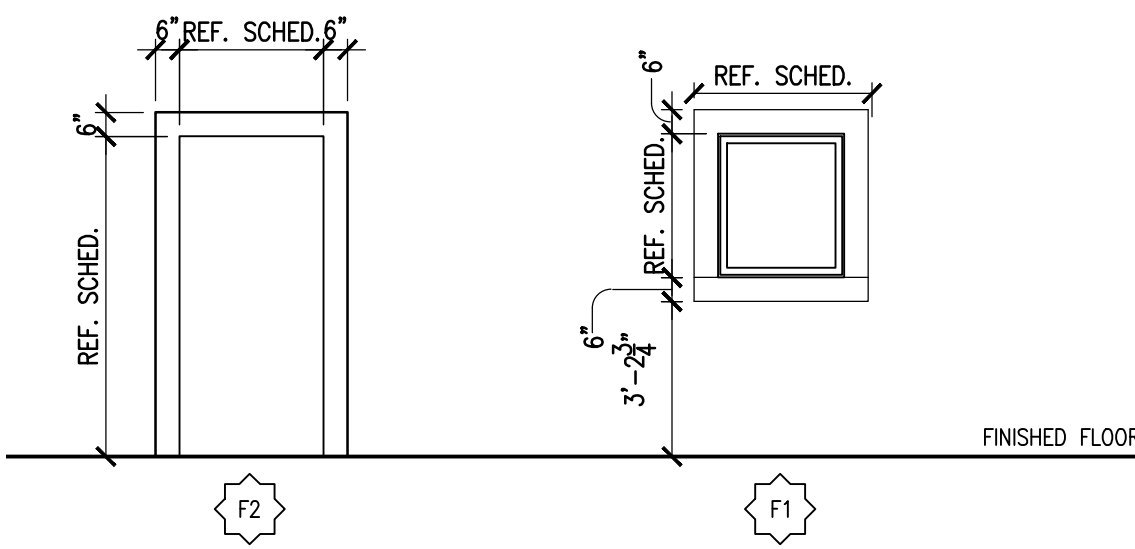
MARK	DOOR			FRAME			FIRE RATING LABEL	HARDWARE			STOP		MISC.			NOTES		
	DOOR #	ROOM #	SIZE	MATL	ELEV	GLAZING		MATL	ELEV	DETAIL			WALL	FLOOR	CLOSER		COAT HOOK	KICK PLATE
										HEAD	JAMB	SILL						
1 101	AE101	3'-0"	7'-0"	1 3/4"	WD	D1	YES	WD	F2	-	-	-	-	YES	YES	-	-	-
2	AE101	3'-0"	7'-0"	1 3/4"	WD	D1	YES	WD	F2	-	-	-	-	YES	YES	-	-	-
3	AE101	3'-0"	7'-0"	1 3/4"	WD	D1	YES	WD	F2	-	-	-	-	YES	YES	-	-	-

WINDOW SCHEDULE

MARK	WINDOW						FRAME			INFORMATION		
	ELEV.	SIZE		TYPE	MATERIAL	MFG.	MODEL #	HEAD HT. LOCATION (A.F.F.)	DETAIL			
		WIDTH	HEIGHT						HEAD		JAMB	SILL
W1	1	2'-7 1/2"	2'-11 1/4"	OPERABLE CASEMENT WINDOW	ALUMINUM	ANDERSEN	400 SERIES CX13	6'-8"	-	-	-	TOTAL: 10

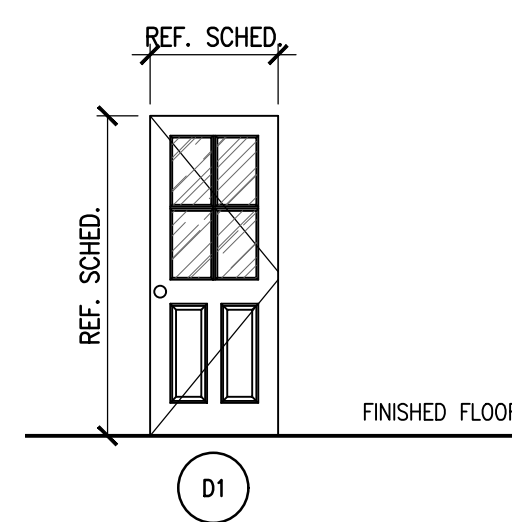
FLOOR PLAN KEYNOTES:

- NEW 2X WD. STUD WALL @ 16" O.C. AS INDICATED PER WALL TYPES. ALIGN W/ EXIST. WALL WHERE APPLICABLE & MATCH EXIST. FINISH.
- NEW SOLID CORE, STAIN WOOD CAR EXTERIOR DOOR WITH TEMPERED GLASS PANELS. PROVIDE DOOR, FRAME & HARDWARE. SEE SCHEDULE FOR SIZING. VERIFY WITH OWNER.
- NEW EXTERIOR INSUL. WINDOW. SEE SCHEDULE FOR SIZING. VERIFY WITH OWNER.
- PROVIDE AND INSTALL WOOD CAR SIDING / CHAIR RAIL TO BE 48" FROM FINISH FLOOR. PAINTED GYP BOARD ABOVE. VERIFY WITH OWNER.
- NEW GYP BOARD CEILING. VERIFY WITH OWNER.
- CONCRETE SLAB FLOOR.
- NEW TIMBER FRAME TRIM TO MATCH EXISTING.
- NEW MITSUBISHI MINI SPLIT SYSTEM. SEE MECHANICAL PLAN FOR DETAILS.



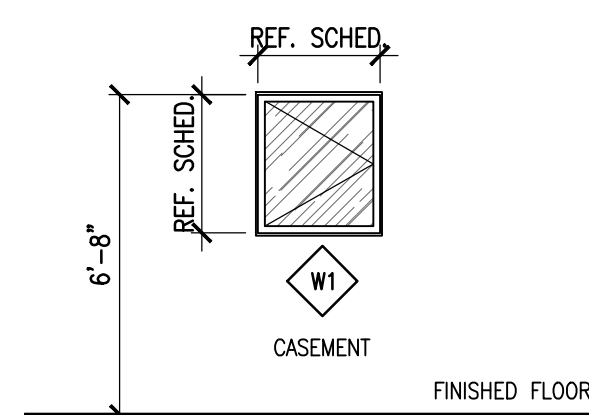
FRAME TYPES

1/4" = 1'-0"



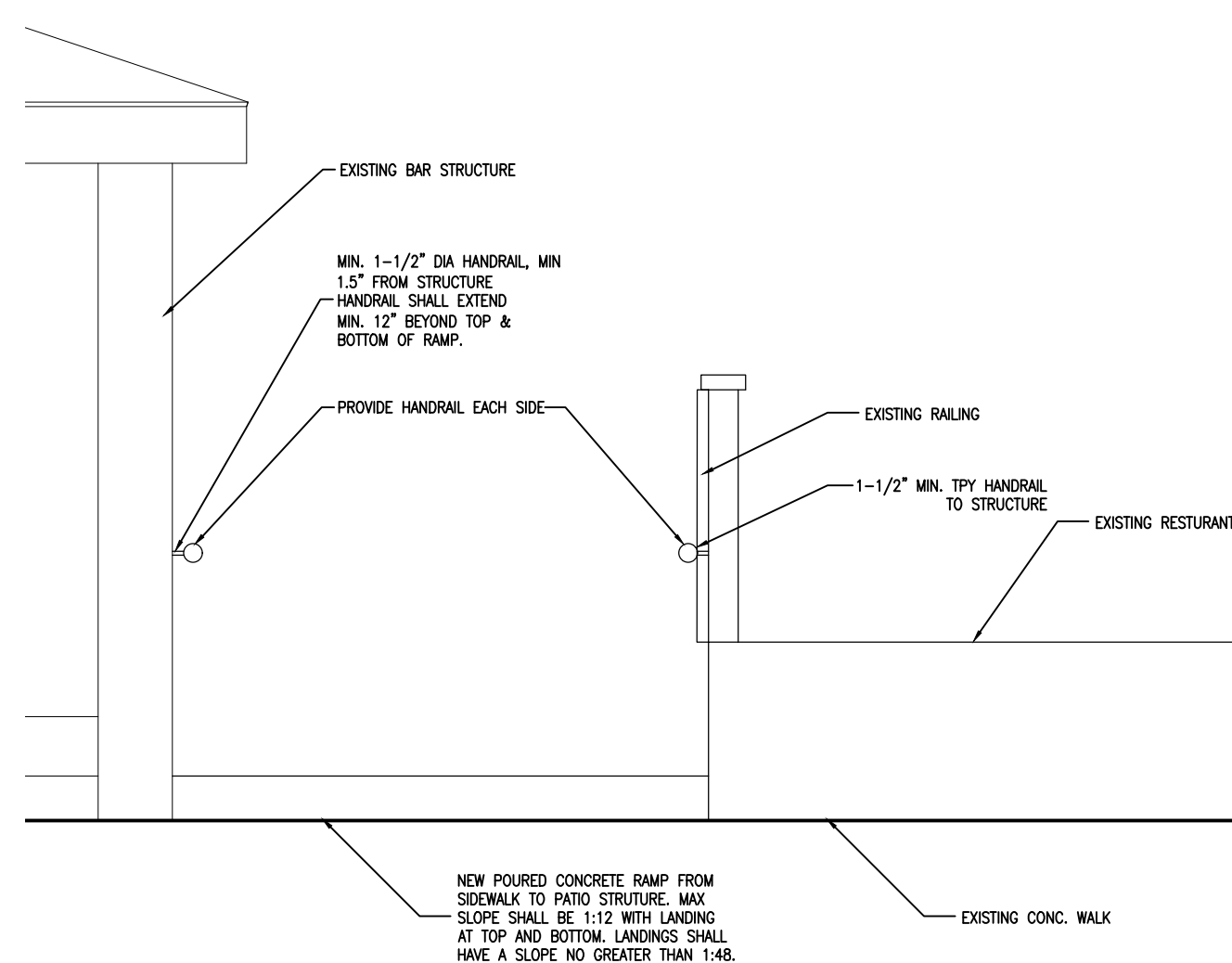
DOOR TYPES

1/4" = 1'-0"



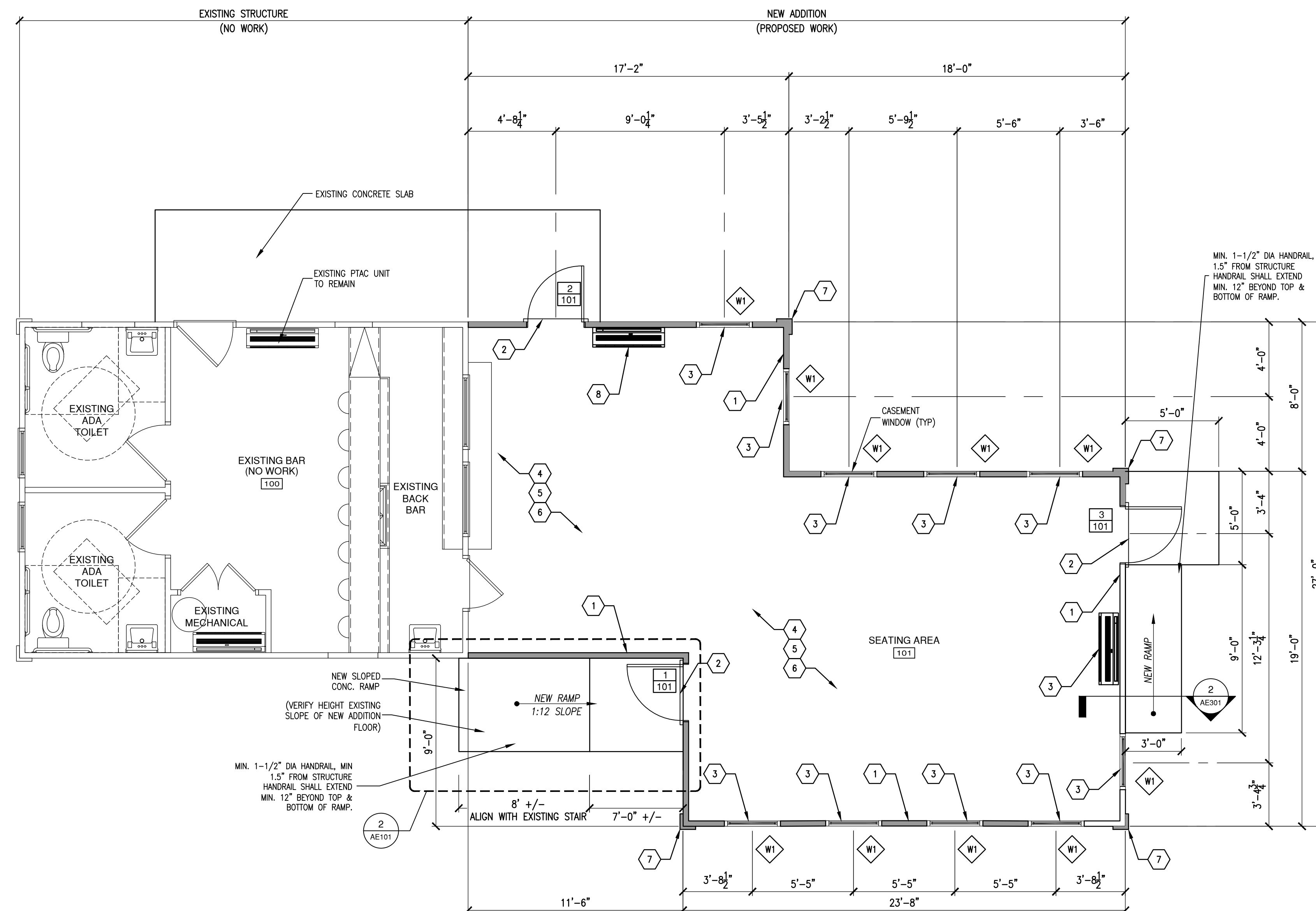
WINDOW TYPES

1/4" = 1'-0"



2 PROPOSED CONC. RAMP

1/2" = 1'-0"



1 MAIN LEVEL FLOOR PLAN

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES:

- DO NOT SCALE DRAWINGS, DIMENSIONS SHALL PREVAIL. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS RELATED TO THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. IF CONTRACTOR FAILS TO VERIFY DIMENSIONS AS INDICATED, ANY AND ALL CORRECTIVE ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL INTERIOR DIMENSIONS ARE SHOWN STUD TO STUD & DO NOT INCLUDE WALL FINISHES.
- ALL DOOR OPENINGS SHALL BE LOCATED 4" FROM ADJOINING WALL UNLESS NOTED OTHERWISE.
- FIELD VERIFY PLAN DIMENSIONS PRIOR TO ANY CASEWORK FABRICATION.
- ALL NEW WALLS SHALL BE FINISHED TO MATCH EXISTING SURFACES INCLUDING PRIMER & PAINT.
- CAULK ALL JOINTS BETWEEN DIFFERENT MATERIALS IE: GYPSUM BOARD & MASONRY.
- ALL WINDOWS WITHIN 24" OF ANY DOOR (REGARDLESS OF WALL PLANE), & WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE FLOOR OR WALKING SURFACE SHALL HAVE TEMPERED GLAZING.
- ANY OPERABLE WDW'S, W/ SILL LESS THAN 36" ABV. FIN. FLR. SHALL BE EQUIPPED W/ A OPENING CONTROL DEVICE PER 1013.8.1.
- IF NO WINDOW SCHEDULE IS PRESENT, CONTRACTOR/OWNER SHALL PROVIDE A MIN. OF 1 CODE COMPLIANT EGRESS WINDOW IN EVERY SLEEPING ROOM.
- SIZE OF STAIR RISERS MAY VARY ACCORDING TO SIZE OF FLOOR SYSTEM.
- ALL INTERIOR WALLS SHALL BE 2 X 4 STUDS @ 16" O.C. W/ 5/8" GYP. BOARD ON BOTH SIDES UNLESS NOTED OTHERWISE.

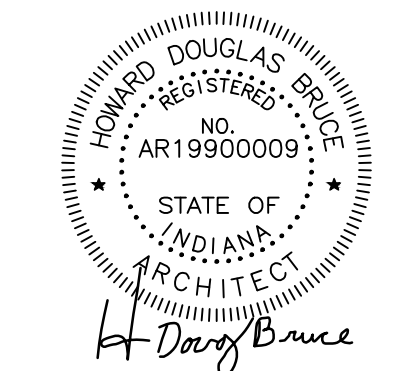
SYMBOLS LEGEND:

	DENOTES NEW FULL HEIGHT MASONRY WALLS		DENOTES NEW FULL HEIGHT STUD WALLS
	DENOTES EXISTING WALLS TO REMAIN WHEN APPLICABLE		DENOTES DETAIL IDENTIFIER
	DENOTES SECTION INDICATOR		DENOTES SHEET NUMBER
	DENOTES ELEVATION INDICATOR		DENOTES SPACE NAME
	DENOTES NEW DOOR AND FRAME SYMBOL		DENOTES SPACE NUMBER
	DENOTES EXTERIOR WINDOW IDENTIFIER		DENOTES SPACE IDENTIFIER
	DENOTES REVISION NOTE		DENOTES WALL TYPES, SEE SHEET G103 FOR WALL TYPE INFORMATION
	DENOTES FLOOR PLAN KEYNOTE		DENOTES DOWNSPOUT LOCATION



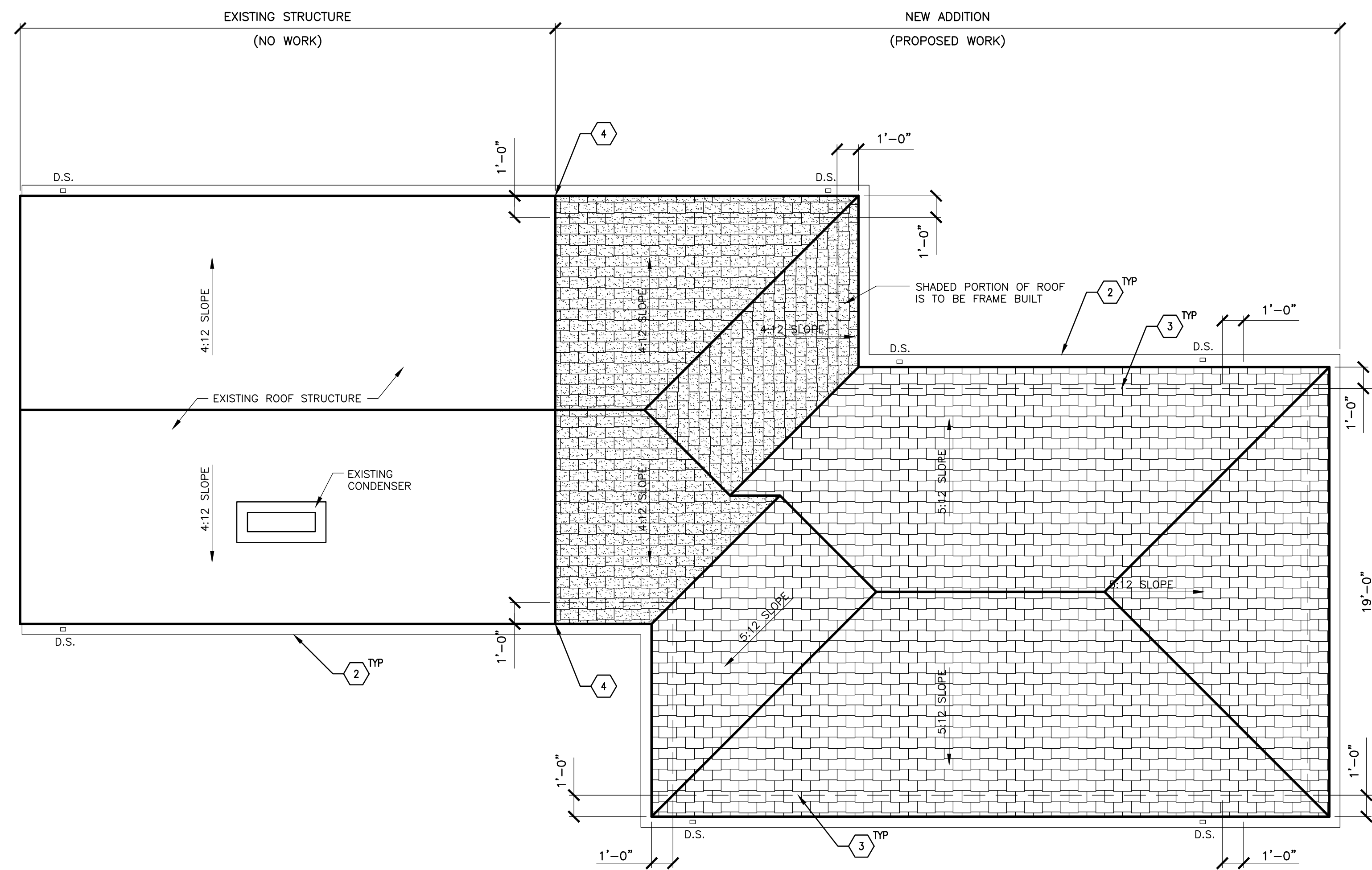
REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408



PROJECT NO. 1322
DATE OCTOBER 17, 2023
DRAWN BY S. MATTHEWS
CHECKED BY D. BRUCE
SHEET NAME
MAIN LEVEL FLOOR PLAN
SHEET NO.

AE101



1 PROPOSED ROOF PLAN
1/4" = 1'-0"

ROOF PLAN KEYNOTES:

- 1 25 YEAR ASPHALT SHINGLE ROOF SYSTEM OVER ONE LAYER OF 30# ASPHALT FELT & ICE DAM PER MFG. RECOMMENDATIONS @ ALL EAVES, VALLEYS, & RIDGES. STYLE & COLOR SHALL BE SELECTED FROM STANDARD COLOR PALLETTE BY OWNER. VERIFY WITH OWNER IF EXISTING ROOF SHINGLES ARE TO REMAIN OR TO BE REMOVED AND NEW SHINGLES TO BE INSTALLED.
- 2 6" K-STYLE PRE-FINISHED SEAMLESS ALUM. .032GA GUTTERS @ ALL ROOF EDGES ALONG BTM. OF ROOF SLOPE. EA. GUTTER SHALL HAVE 3"x4" ALUM. DOWNSPOUTS PROPERLY SUPPORTED W/ SPLASH-BLOCKS OR DIRECTLY TIE INTO BELOW GRADE STORM DRAIN SYSTEM.
- 3 LINE OF WALL FRAMING BELOW.
- 4 ALIGN NEW ROOF HEIGHT WITH EXISTING ROOF.

TYPICAL ROOF ABBREVIATIONS:

AC	AIR CONDENSING UNIT
DS	DOWNSPOUT
EF	EXHAUST FAN
EJ	EXPANSION JOINT
OFD	OVERFLOW ROOF DRAIN
RD	ROOF DRAIN
RS	ROOF SCUTTLE
SB	SPLASH BLOCK
SC	SCUPPER
TCV	TRASH CHUTE WENT

TYPICAL ROOF ASSEMBLY:

1. 240#3-TAB ASPHALT/FIBERGLASS SHINGLES, FASTENED W/ ONLY ROOFING NAILS AS PER SHINGLE SPEC. NO STAPLES.
2. 15# ROOFING FELT LAPPED AS PER MFG'S. SPEC'S.
3. WATER & ICE SHIELD MEMBRANE.
4. 5/8" OSB OR CDX PLYWOOD ROOF DECKING W/ H-CLIPS @ ALL SPANNING BUTT JOINTS @ MIDPOINTS BETWEEN ROOF FRAMING SUPPORTS.

GENERAL ROOF PLAN NOTES:

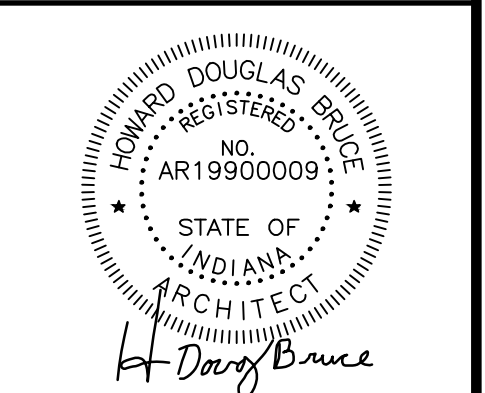
- ALL WORK SHALL BE IN ACCORDANCE W/ THE BEST QUALITY STANDARDS OF THE TRADE & SHALL CONFORM W/ THE LATEST EDITION OF ALL FEDERAL, STATE, & LOCAL CODES & STANDARDS. THE SAME ARE MADE A PART OF THESE CONTRACT DOCUMENTS, AS REPEATED HEREIN.
- CONTRACT DOCUMENTS CONSIST OF BOTH THE PROJECT MANUAL & DRAWINGS, & BOTH ARE INTENDED TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
- CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY & IN SOME CASES, ENLARGED FOR CLARITY. PROVIDE ADD'L ITEMS AS REQ'D. TO PROVIDE A COMPLETE & COORDINATED SYSTEM.
- CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM THE BLDG. & ROOF DAILY.
- STORE VOLATILE OR FLAMMABLE LIQUIDS IN UL LISTED FIRE CABINETS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SECURITY OF ALL STORED MATERIALS & EQUIP. INSIDE OR OUTSIDE THE BLDG.
- CONTRACTOR SHALL FURNISH NECESSARY TEMPORARY PROTECTION FROM WEATHER TO PROTECT INTERIOR OF BLDG. FROM ELEMENTS OF WEATHER @ ALL TIMES.
- CONTRACTOR RESPONSIBLE FOR TRAFFIC PROTECTION DURING CONSTRUCTION. AREAS OF WORK & TRAFFIC BY VARIOUS TRADES SHALL BE PROTECTED BY TEMPORARY WALKING PADS.
- PROVIDE TR. WD. BLOCKING EQ. IN THICKNESS TO INSUL. SYSTEM @ ROOF PERIMETER & AROUND ALL ROOF PENETRATIONS. ANCHOR PER SECTION 1-49 OF THE FM GLOBAL LOSS PREVENTION GUIDE.
- EXTEND ALL PLUMBING VENTS TO PROVIDE A MIN. OF 12" OF HT. FROM TOP OF INSUL. ALL FITTINGS TO BE AIR & WATER TIGHT. SEE PLUMBING PLANS.
- ROOF INSUL. SADDLES & CRICKETS ARE DIAGRAMMATIC. ROOF INSUL. MFG'S. SHALL DESIGN & SIZE THESE PER ROOF MEMBRANE MFG'S. RECOMMENDATIONS. CRICKETS & SADDLES TO BE A MIN. WIDTH OF 1/2 THE SADDLE LENGTH.
- PROVIDE SADDLES/CRICKETS AROUND ALL NEW ROOF TOP EQUIPMENT.
- PROVIDE TAPERED INSUL. WHERE REQ'D. TO TRANSITION FROM ONE INSUL. HT. TO ANOTHER.
- NOTCH ALL INSUL. AS REQ'D. TO ACCOMMODATE SURFACE MTD. CONDUIT, FASTENERS, OFFSETS & OTHER PROJECTIONS EXTENDING ABOVE THE SURFACE OF THE DECK.
- PERIMETER EDGE MTL. TO COMPLY WITH ANSI/SPRI ES-1 FM GLOBAL 1-49.
- SEE MECHANICAL, ELECTRICAL & PLUMBING (MEP) SHEETS FOR ROOF TOP EQUIP.



REVISIONS

NO.	DESCRIPTION

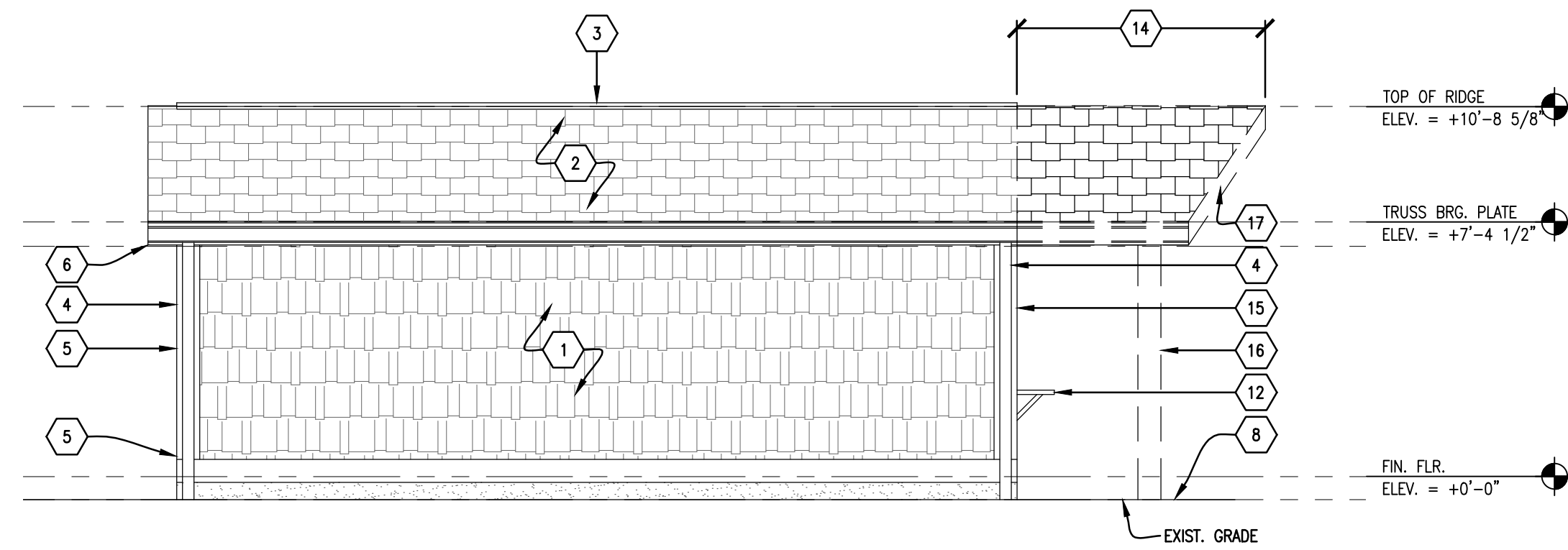
AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408



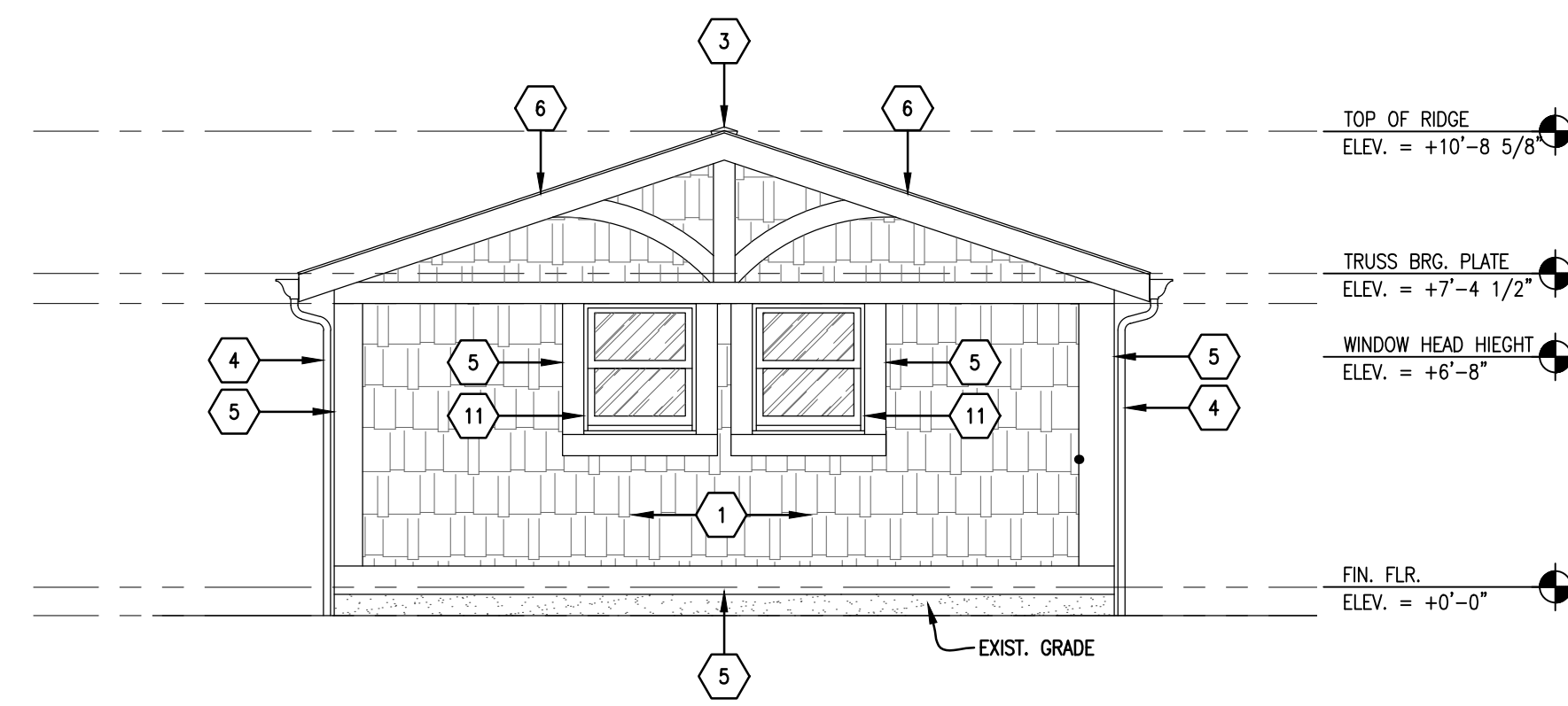
PROJECT NO.	1322
DATE	OCTOBER 17, 2023
DRAWN BY	S. MATTHEWS
CHECKED BY	D. BRUCE

PROPOSED ROOF PLAN

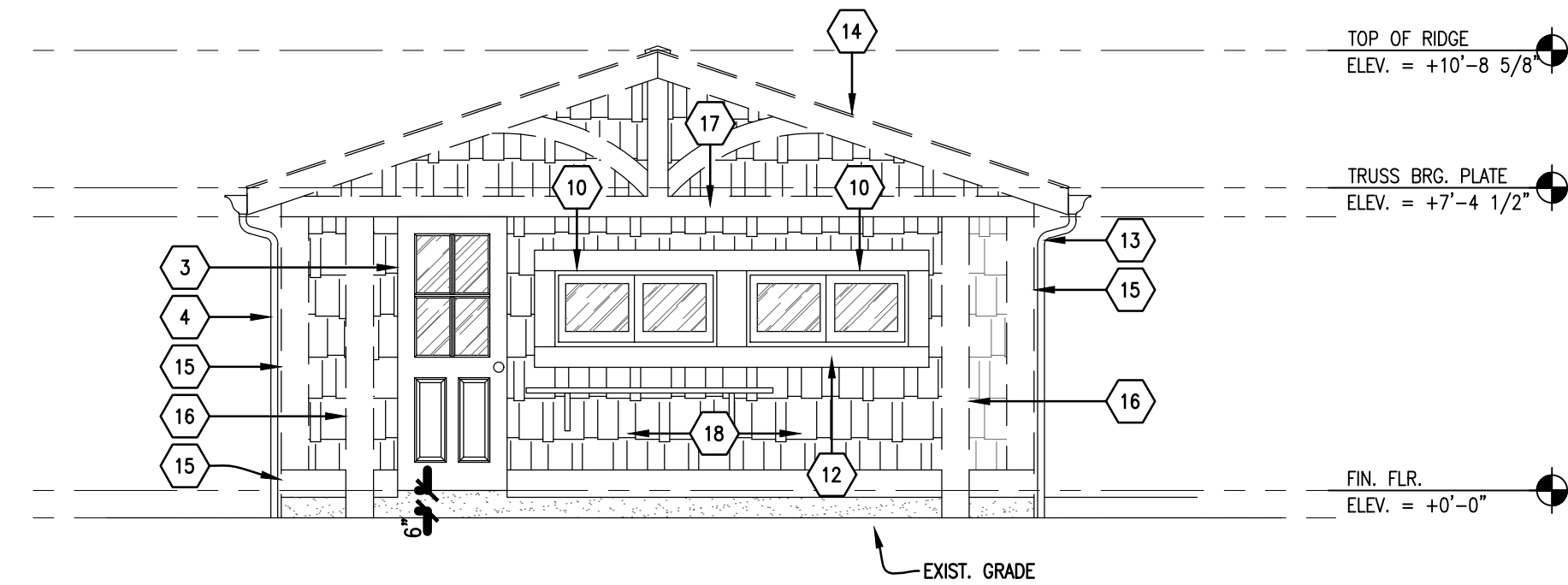
SHEET NO.
AE121



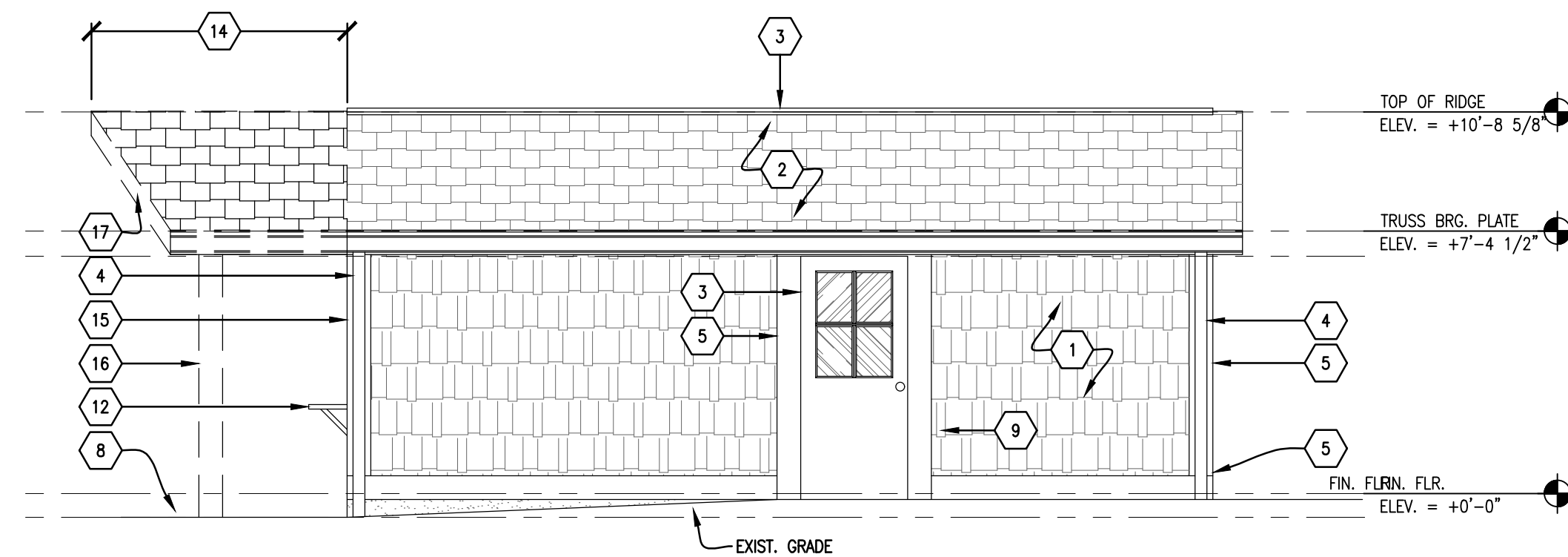
4 EXISTING SOUTH EXTERIOR ELEVATION
1/4" = 1'-0"



2 EXISTING WEST EXTERIOR ELEVATION
1/4" = 1'-0"



3 EXISTING EAST EXTERIOR ELEVATION
1/4" = 1'-0"



1 EXISTING NORTH EXTERIOR ELEVATION
1/4" = 1'-0"

ELEVATION KEYNOTES:

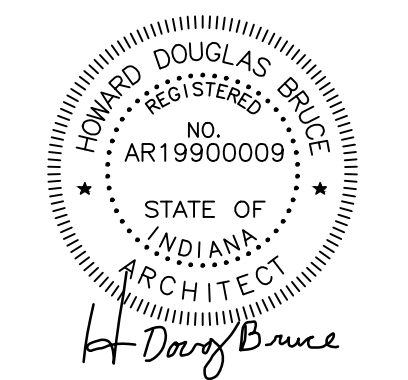
- | | | | | | |
|---|---|----|---|----|---|
| 1 | EXISTING ALURRA FIBER CEMENT SHAKE PANELS. | 8 | EXISTING CONCRETE PAD. | 15 | EXISTING TIMBER FRAME TRIM TO BE REMOVED. |
| 2 | EXISTING 25 YEAR ASPHALT SHINGLE ROOF SYSTEM OVER ONE LAYER. | 9 | EXISTING TR. WD. ACCESSIBLE RAMP. | 16 | EXISTING TIMBER FRAME POST TO BE REMOVED. |
| 3 | EXISTING CONTINUOUS RIDGE VENT @ ROOF RIDGE. | 10 | EXISTING ANDERSEN 400 SERIES GLIDING WDW. | 17 | EXISTING TIMBER FRAME BEAM TO BE REMOVED. |
| 4 | REMOVE AND DISPOSE EXISTING 6" K-STYLE PRE-FINISHED SEAMLESS ALUM. .032GA GUTTERS @ ALL ROOF EDGES ALONG BTM. | 11 | EXISTING ANDERSEN 400 SERIES DBL. HUNG WDW. | 18 | FIBER CEMENT SHAKE PANELS TO BE REMOVED. |
| 5 | EXISTING TIMBER FRAME TRIM. | 12 | EXISTING WDW. SERVICE COUNTER. | | |
| 6 | EXISTING TIMBER FRAME FASCIA & RAKE BD. | 13 | EXISTING EXTERIOR INSUL. MTL. DOOR & FRAME. | | |
| 7 | EXISTING TIMBER FRAME POST. | 14 | EXISTING ROOF TO BE REMOVED. | | |



REVISIONS

NO.	DESCRIPTION

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408

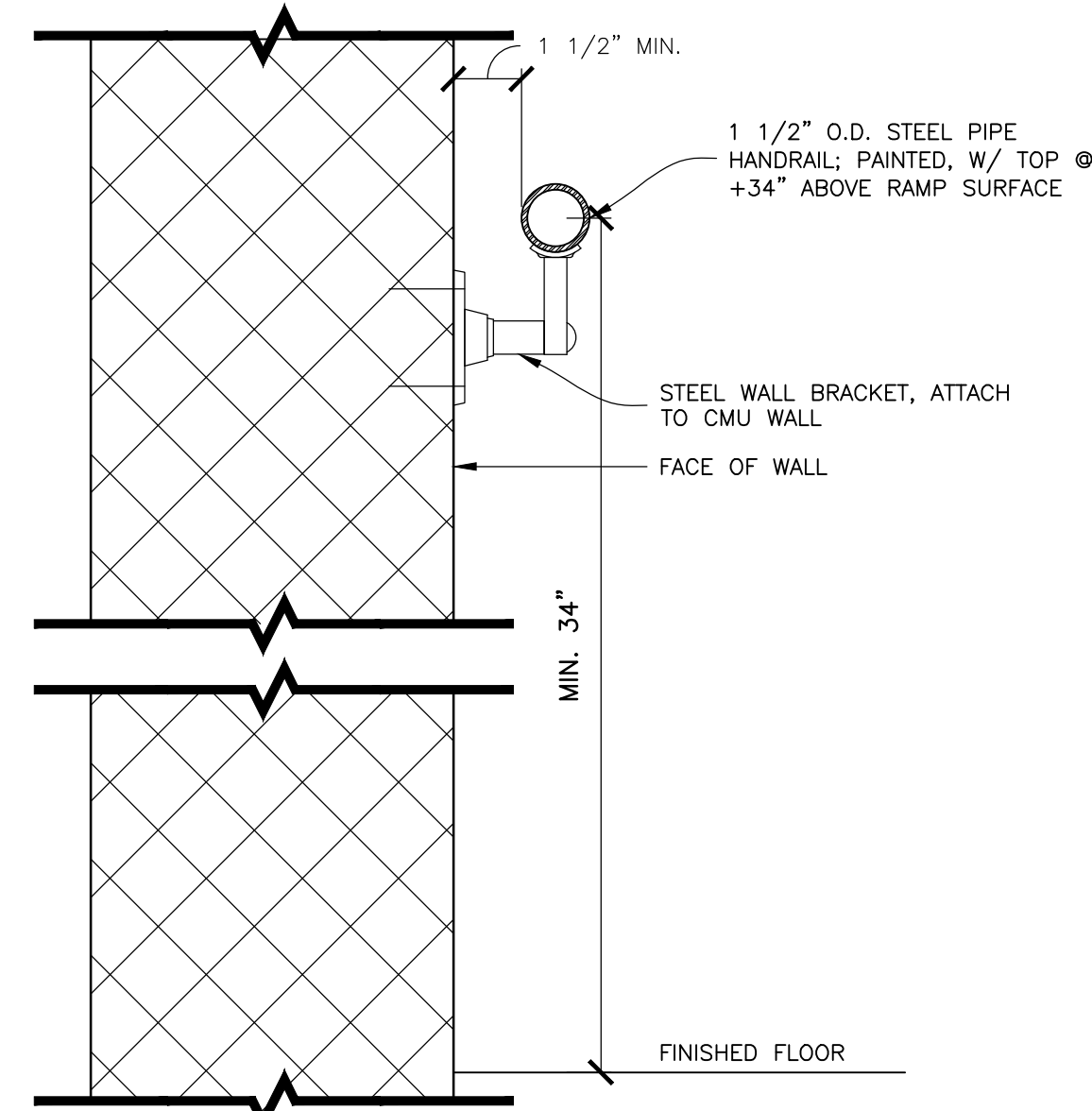


PROJECT NO.	1322
DATE	OCTOBER 17, 2023
DRAWN BY	S. MATTHEWS
CHECKED BY	D. BRUCE

SHEET NAME
EXISTING EXTERIOR ELEVATIONS

SHEET NO.

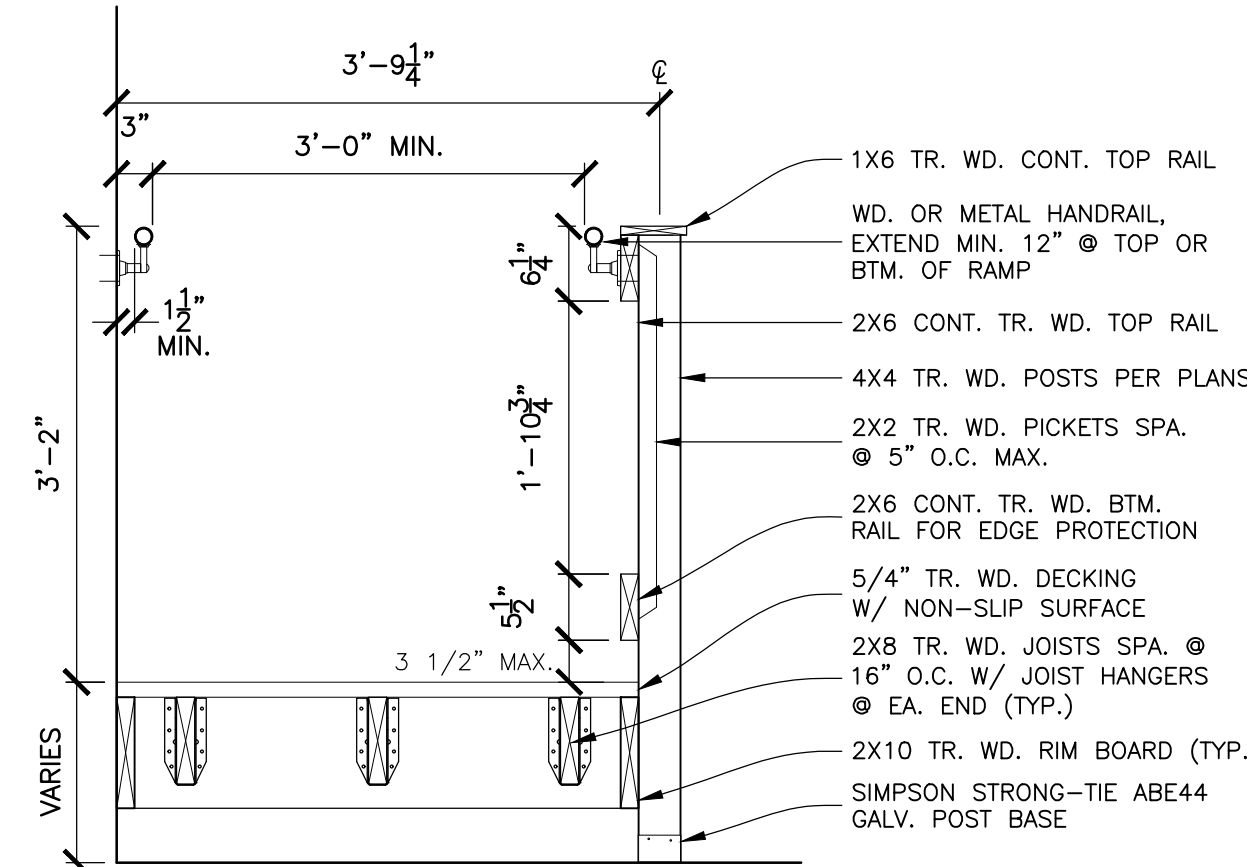
AD201



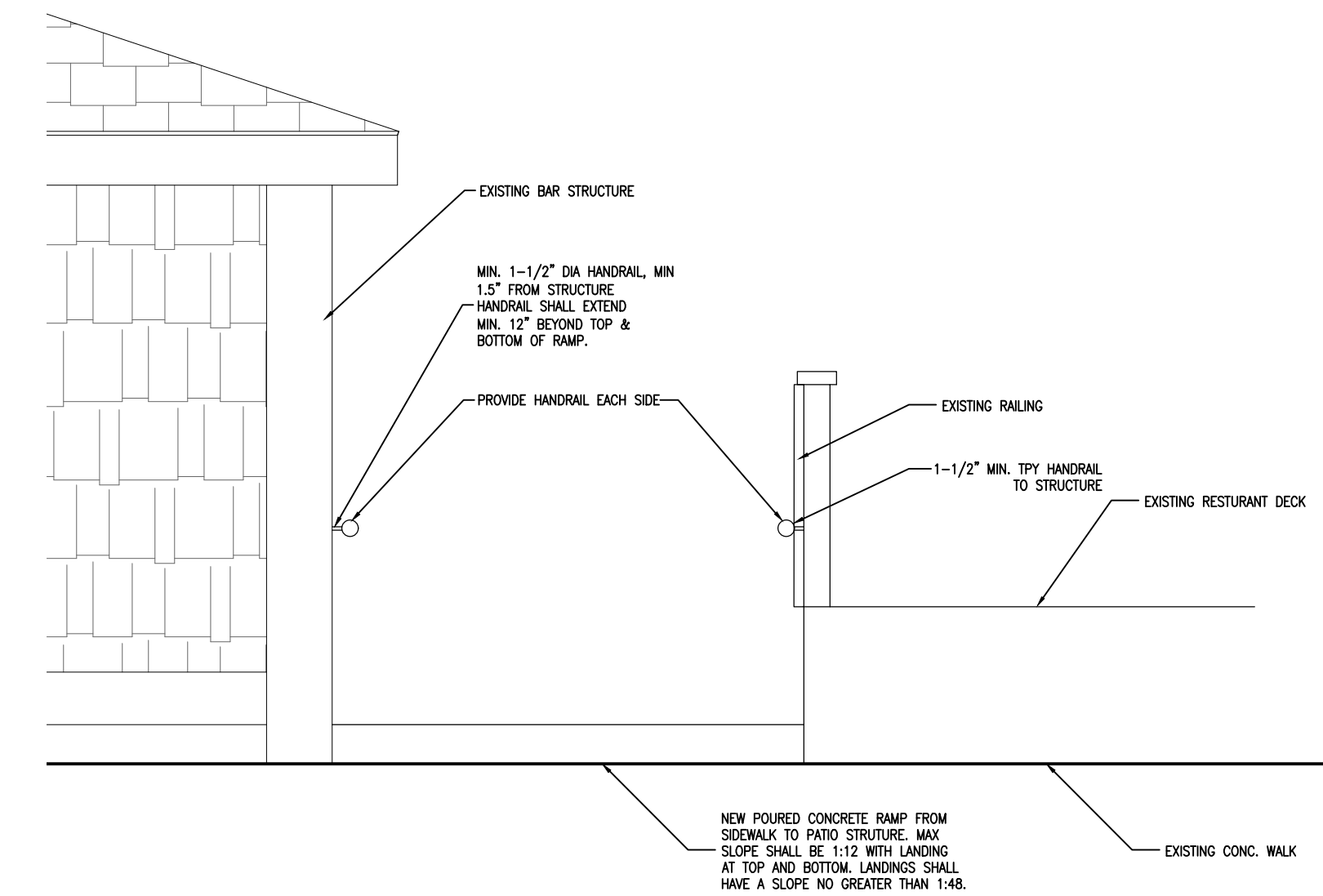
4 STAIR HANDRAIL DETAIL
1" = 1'-0"

FRAMING NOTES:

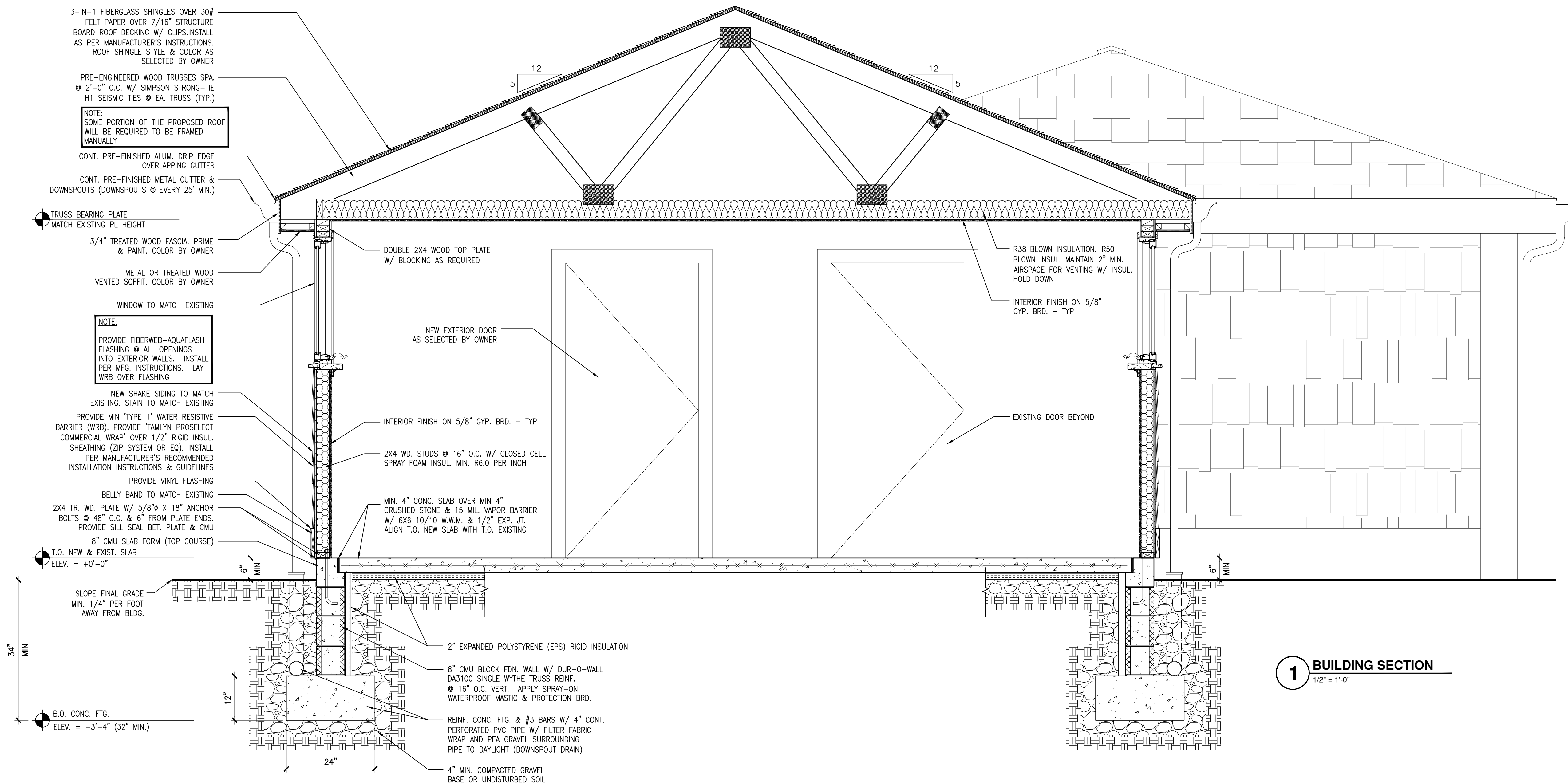
1. ALL LUMBER FOR DECKING & RAILS SHALL BE NO. 2 SELECT, PRESSURE TREATED TYPE & SHALL NOT BE WARPED, CUPPED OR CONTAIN EXCESSIVE KNOTS. THE OWNER RESERVES THE RIGHT TO REJECT ANY LUMBER THAT DOES NOT MEET THESE STANDARDS.
2. ALL JOIST & BEAM LUMBER SHALL BE MIN. NO.2 PRESSURE TREATED TYPE.
3. ALL HARDWARE INCLUDING NAILS, BOLTS, FRAMING ANCHORS & HANGERS SHALL BE GALV. STEEL RATED FOR ACO & CBA TREATED WOOD.
4. JOIST HANGERS SHALL BE REQUIRED @ ALL LEDGER AND JOIST/BEAM CONNECTIONS AS NEEDED.
5. PROVIDE CLIP ANGLE FASTENERS @ ALL RIM BOARD INTERNAL INTERSECTIONS.



3 TYPICAL RAMP SECTION
3/4" = 1'-0"



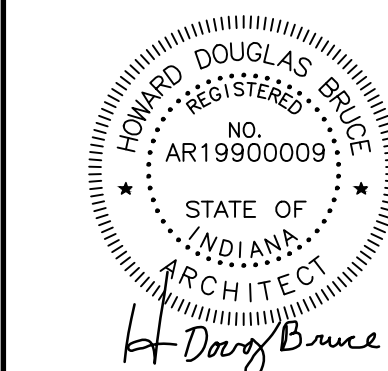
2 RAMP DETAIL
1/2" = 1'-0"



1 BUILDING SECTION
1/2" = 1'-0"

REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408



PROJECT NO. 1322
DATE OCTOBER 17, 2023
DRAWN BY J. BALLINGER
CHECKED BY D. BRUCE

BUILDING SECTION

SHEET NO.

AE301

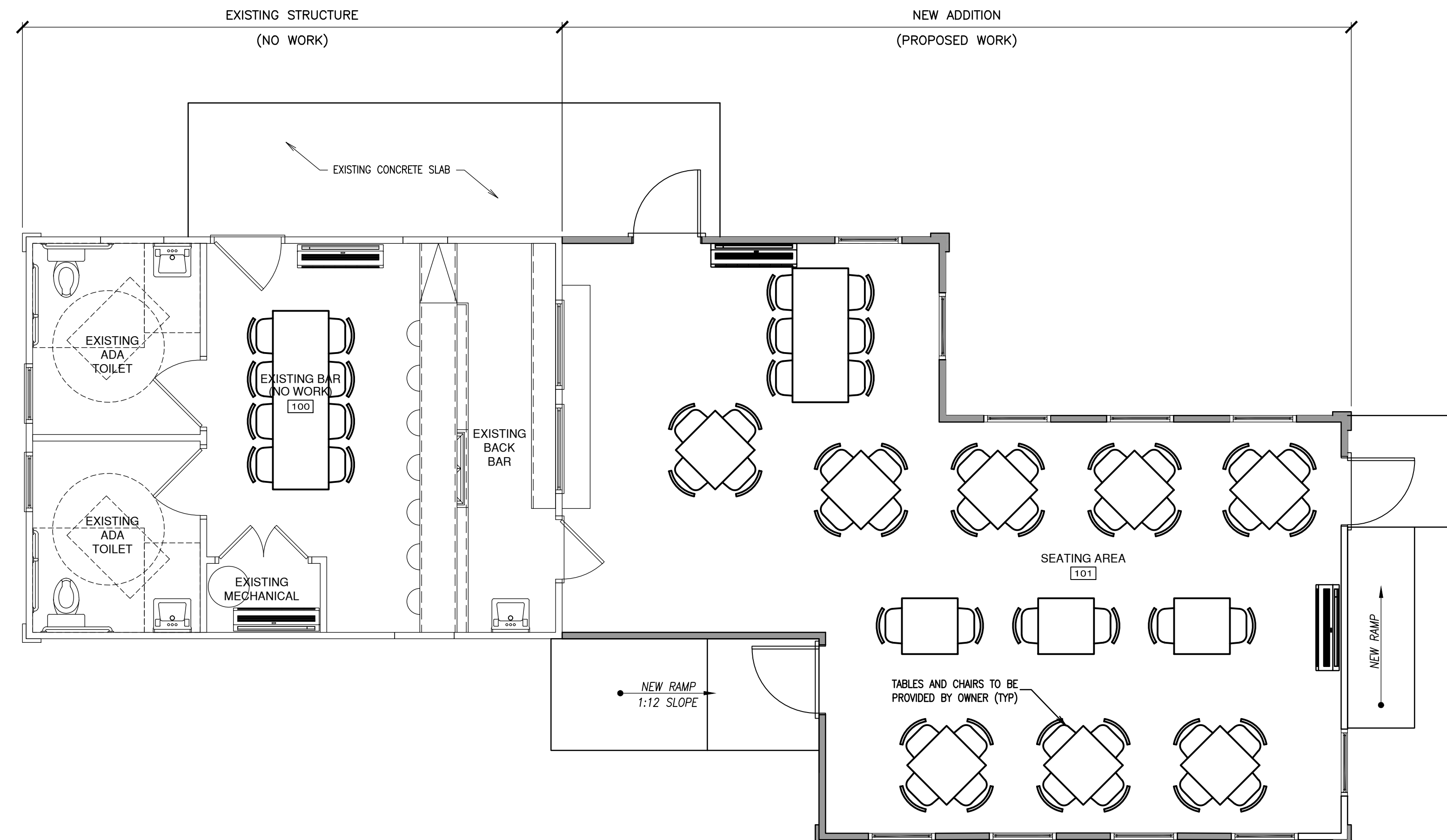
1101 S. WALNUT STREET, SUITE 200, BLOOMINGTON, IN 47401

TEL: 317.332.6258 FAX: 317.332.6259



REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408



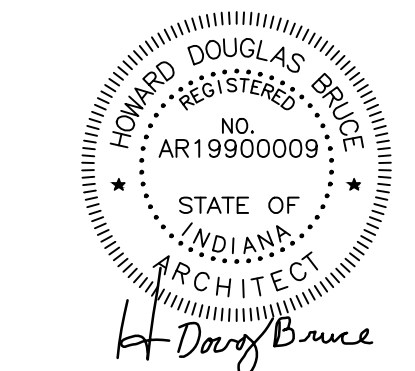
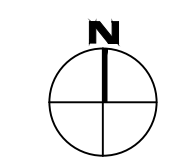
GENERAL NOTES:

- ALL WORK IS TO BE DONE IN ACCORDANCE W/ ALL GOVERNING CODES & REGULATING AGENCIES. THIS PROJECT IS DESIGNED & DOCUMENTED PER THE ARCHITECT'S INTERPRETATION OF THE CODE REQUIREMENTS. VARIOUS GOVERNING AGENCIES SOMETIME INTERPRET THE CODES, LAWS, & ORDINANCES DIFFERENTLY. THESE AGENCIES HAVE JURISDICTION TO REQ'D. CHANGES IN DESIGN & CONSTRUCTION INCLUDING THOSE AGENCIES INVOLVED W/ THE "AMERICANS WITH DISABILITIES ACT".
- THE ARCHITECTURAL PLANS SHOWN HEREIN MAY NOT CORRESPOND TO PLANS FINALLY APPROVED BY THE ARCHITECT, OWNER, OR NECESSARY AGENCIES. IT IS THE RESPONSIBILITY OF THE PARTY OR PARTIES RELYING ON THESE PLANS TO VERIFY & CONFIRM SAID ARCHITECTURAL PRIOR TO CONSTRUCTION.
- DO NOT SCALE DWG'S. DIMENSIONS SHALL PREVAIL. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS RELATED TO THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY IF CONTRACTOR FAILS TO VERIFY DIMENSIONS AS INDICATED, ANY & ALL CORRECTIVE ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL INTERIOR DIMENSIONS ARE SHOWN STUD TO STUD & DO NOT INCLUDE WALL FINISHES.
- ALL DOOR OPENINGS SHALL BE LOC. 4" FROM ADJOINING WALL U.N.O.
- FIELD VERIFY PLAN DIMENSIONS PRIOR TO ANY CASEWORK FABRICATION.
- ALL NEW WALLS SHALL BE FINISHED TO MATCH EXIST. SURFACES INCLUDING PRIMER & PAINT.

SYMBOLS LEGEND:

<p>DENOTES EQUIPMENT INDICATOR</p> <p>← ELEVATION #</p> <p>← SHEET #</p> <p>DENOTES INTERIOR ELEVATION INDICATOR</p> <p>LABEL +0'-0"-0"</p> <p>DENOTES TARGET ELEVATION</p>	<p>DENOTES FURNISHING INDICATOR</p> <p>ROOM SPACE NAME</p> <p>001 SPACE #</p> <p>DENOTES SPACE IDENTIFIER</p> <p>LABEL +0'-0"</p> <p>DENOTES SPOT ELEVATION</p>
<p>1 DEMOLITION NOTE</p>	<p>1 PLAN NOTE</p>
	<p>1 REVISION NOTE</p>

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



PROJECT NO. 1322
DATE OCTOBER 17, 2023
DRAWN BY S. MATTHEWS
CHECKED BY D. BRUCE

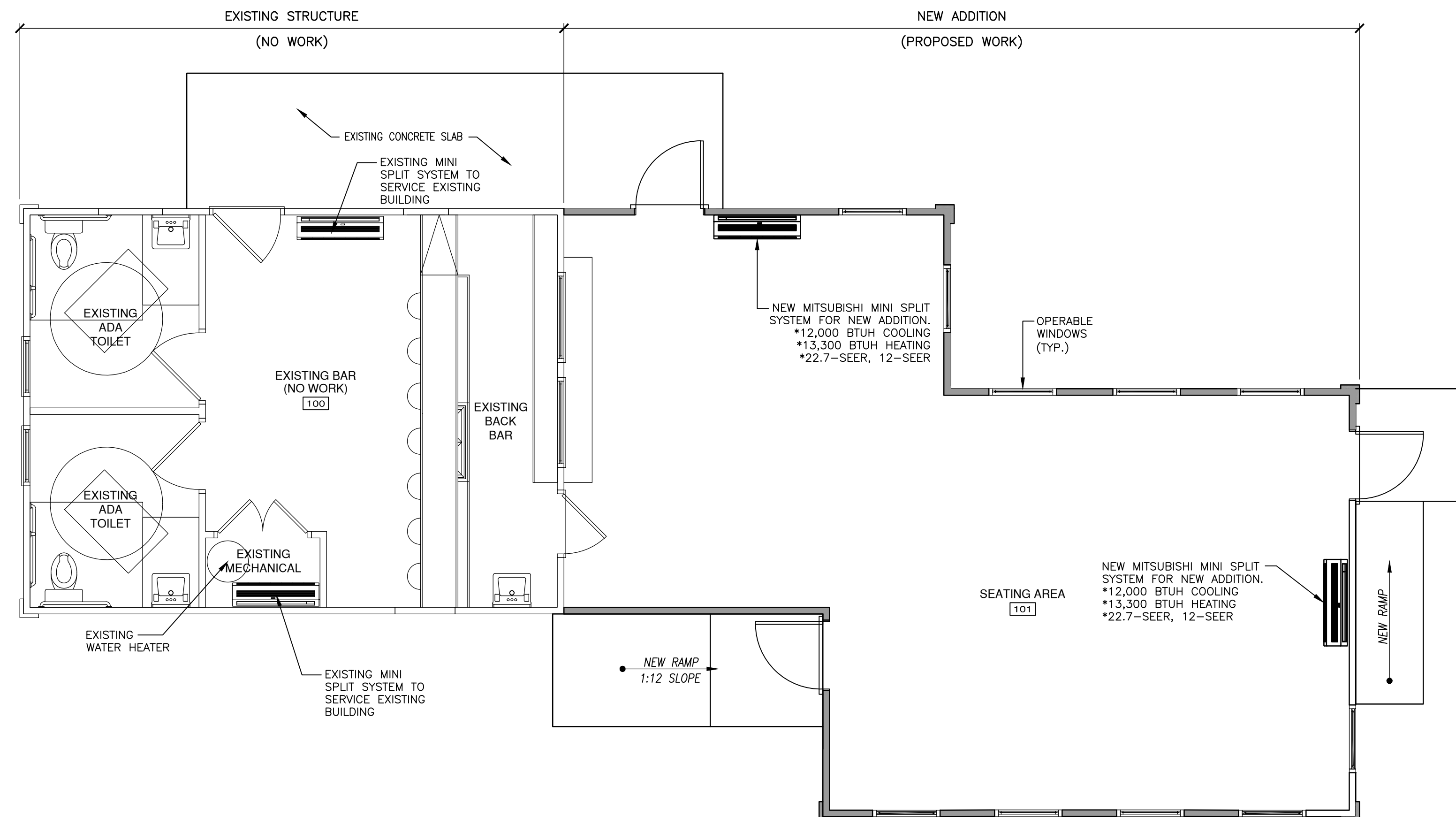
SHEET NAME
FURNISHING PLAN

SHEET NO.

IF101

REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
120 N GRANT ST.,
BLOOMINGTON, IN 47408



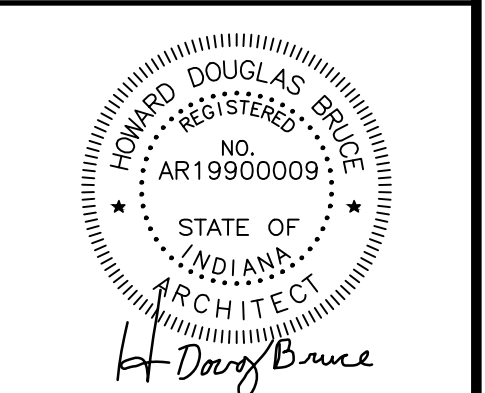
1 MECHANICAL PLAN
1/4" = 1'-0"

MECHANICAL GENERAL NOTES:

ALL WORK TO COMPLY TO ALL NATIONAL, STATE AND LOCAL CODES
MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL HVAC EQUIPMENT
MECHANICAL CONTRACTOR TO INSTALL CONDENSATE LINES & REFRIGERANT LINES
MECHANICAL CONTRACTOR TO RUN ALL 24V CONTROL CIRCUITS
PLUMBING CONTRACTOR TO INSTALL ALL GAS LINES
ALL DUCTS RUN IN THE CEILING AT TO BE 26 GA GAL. S.M.
NOTE DUCT DIMENSIONS GIVEN ARE OUTSIDE DIMENSIONS
FLEX DUCT TO HAVE VINYL BARRIER INTERIOR & EXTERIOR W/ 1" INSUL & WOUND WIRE SUPPORT. ALL JOINTS TO BE STRAPPED & TAPED MIN. TAKE OFF 6" LENGTH. ALL DUCT RUNS TO HAVE A QUARTER TURN DAMPER IN TAKE OFF OF SUPPLY DUCT. ANY DUCT RUN IN NON CONDITIONED SPACE TO BE EXTERNALLY WRAPPED W/ 1" CLOSED CELL FOAM INSULATION & BE SEALED W/ HARDCAST SEALANT.
SUPPLY REGISTERS ARE LIMA SERIES COMPLETE W/ DAMPER CONTROL
41 SERIES FLOOR REGISTERS.
RETURN AIR GRILLS ARE LIMA SERIES
19H SERIES WHITE.
THESE PLANS ARE DIAGRAMMATIC IN NATURE, AND DO NOT REPRESENT EVERY NECESSARY OFFSET AND FITTING. CONTRACTOR SHALL INSTALL HIS WORK IN A MANNER THAT WILL CONFORM WITH THE STRUCTURE. CONTRACTOR SHALL AVOID OBSTRUCTIONS, PRESERVE HEAD ROOM AND MAINTAIN MAXIMUM CLEARANCE WITHOUT ADDITIONAL COST TO THE OWNER.
CONSEAL ALL LINESETS, PIPING, POWER WIRING, CONTROL WIRING AND CONTROL COMPONENTS UNLESS OTHERWISE NOTED. IF CONCEALMENT IS NOT POSSIBLE, CONTACT ENGINEER FOR ALTERNATIVES PRIOR TO FABRICATION
KEEP ALL DUCTWORK, DUCT SYSTEM AND EQUIPMENT OPENINGS COVERED WITH ADHESIVE DUCT PROTECTIVE WRAP LIKE VENTURETAPE 1512, UNTIL SYSTEM START-UP. THIS IS TO PREVENT INTRUSION OF CONSTRUCTION DIRT AND DEBRIS INTO THE DUCT SYSTEM, AND HVAC EQUIPMENT.
SHEET METAL TRANSITIONS BY SHEET METAL CONTRACTOR.
ANY INTERIOR EXPOSED SUPPLY DUCTS SHALL BE INTERNALLY LINED WITH 1" FIBERGLASS INSULATION AND SHALL BE PAINTABLE. DIMENSIONS INDICATED ON PLAN ARE AIR PATH DIMENSIONS.

LEGEND

	MECHANICAL EQUIPMENT
	SUPPLY AIR CEILING DUCT
	RETURN AIR CEILING DUCT
	EXHAUST FAN, VENT TO EXT. THRU ROOF, INSULATED.
	RECTANGULAR DUCT SIZE.
	ROUND DUCT SIZE.
	THERMOSTAT



PROJECT NO. 1322
DATE OCTOBER 17, 2023
DRAWN BY S. MATTHEWS
CHECKED BY D. BRUCE
SHEET NAME
MECHANICAL PLAN

SHEET NO.
MH101

ABBREVIATIONS			
#	PHASE	EXC	EXISTING WATER COOLER
°	DEGREES FAHRENHEIT	EX	EXISTING
A/C	AIR CONDITIONING	FCU	FAN COIL UNIT
A	AMPERES	FLR	FLOOR
ACCU	AIR COOLED CONDENSING UNIT	FPWV	FAN POWERED VAV UNIT
AF	AMPERES FUSED	FT	FOOT FEET
AFC	ABOVE FINISHED COUNTER	FURN	FURNACE
AFF	ABOVE FINISHED FLOOR	G	GROUND
AHU	AIR HANDLING UNIT	GC	GENERAL CONTRACTOR
AIC	AMPERES INTERRUPTING CAPACITY	GFI	GROUND FAULT INTERRUPTING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HHWP	HEATING HOT WATER PUMP
ARCH	ARCHITECT	HO	HUB OUTLET
AVG	AVERAGE	HOA	HAND-OFF-AUTOMATIC
B/I	BYPASS ISOLATION	HORIZ	HORIZONTAL
BE	BOTTOM ELEVATION	HP	HORSEPOWER
BHP	BRAKE HORSEPOWER	HR	HOURL(S)
BLDG	BUILDING	HRTU	HEATING ONLY ROOFTOP UNIT
BSMT	BASEMENT	HZ	HERTZ
BTUH	BRITISH THERMAL UNIT PER HOUR	ID	INSIDE DIAMETER
C	CONDUIT	IN	INCH, INCHES
CB	CIRCUIT BREAKER	INT	INTERIOR
CCW	COUNTERCLOCKWISE	INVT	INVERT
CH	CHILLER	K	KELVIN
CHWP	CHILLED WATER PUMP	KW	KILOWATT
CLG	CEILING	LBS	POUNDS
COMP	COMPRESSOR	LTG	LIGHTING
COND	CONDENSER	MAX	MAXIMUM
CONV	CONNECTOR	MBH	THOUSAND BTU PER HOUR
CT	COOLING TOWER	MC	MECHANICAL CONTRACTOR
CU	CONDENSING UNIT	MCA	MINIMUM CIRCUIT AMPS
CUH	CABINET UNIT HEATER	MCC	MOTOR CONTROL CENTER
CUV	CLASSROOM UNIT VENTILATOR	MFR	MANUFACTURER
CW	CLOCKWISE	MN	MINIMUM
CWP	CONDENSER WATER PUMP	MISC	MISCELLANEOUS
DC	DIRECT CURRENT	MTD	MOUNTED
DED	DEDICATED CIRCUIT	MV	MEDIUM VOLTAGE
DS	DISCONNECT SWITCH	NA	NOT APPLICABLE
DWG	DRAWING	NA	NATIONAL ELECTRIC CODE
EA	EACH	NEC	NATIONAL ELECTRIC CODE
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT
EF	EXHAUST FAN	NL	NON-LINEAR
EFF	EFFICIENCY	NOM	NOMINAL
EL	ELEVATION	NTS	NOT TO SCALE
ETR	EXISTING TO REMAIN	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
		OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
		OL	OVERLOAD
		OZ	OUNCE
		P	POLE
		PE	PNEUMATIC ELECTRIC
		PH	PHASE
		PSI	POUNDS PER SQUARE INCH
		PSIA	POUNDS PER SQUARE INCH ABSOLUTE
		PSIG	POUNDS PER SQUARE INCH GAUGE
		PTAC	PACKAGED TERMINAL AIR CONDITIONER
		RCPT	RECEPTACLE
		REV	REVOLUTIONS
		RM	ROOM
		RPM	REVOLUTIONS PER MINUTE
		RPS	REVOLUTIONS PER SECOND
		RTU	ROOFTOP UNIT
		SF	SQUARE FOOT
		SPEC	SPECIFICATION
		SO	SQUARE
		ST	SHUNT TRIP
		STD	STANDARD
		SW	SWITCH
		TBI	TO BE INSTALLED
		TBR	TO BE REMOVED
		TR	TO REMAIN
		TE	TOP ELEVATION
		TEMP	TEMPERATURE
		TF	TRANSFER FAN
		TRANS	TRANSITION
		UHD	UNIT HEATER
		UNLESS	UNLESS NOTED OTHERWISE
		UV	UNIT VENTILATOR
		V	VOLTS
		VAV	VARIABLE AIR VOLUME
		VB	VACUUM BREAKER
		VERT	VERTICAL
		VF	VENTILATION FAN
		VFD	VARIABLE FREQUENCY DRIVE
		W	WIRE/WATT
		WP	WEATHERPROOF
		W/	WITH
		W/O	WITHOUT

LIGHTING SYMBOLS	
	SURFACE MOUNTED 2'x4' FIXTURE
	SURFACE MOUNTED 2'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	RECESSED MOUNTED 2'x4' FIXTURE
	RECESSED MOUNTED 2'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	SURFACE MOUNTED 1'x4' FIXTURE
	SURFACE MOUNTED 1'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	RECESSED MOUNTED 1'x4' FIXTURE
	RECESSED MOUNTED 1'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	SUSPENDED FIXTURE
	SUSPENDED EMERGENCY FIXTURE W/ BATTERY BACKUP
	SURFACE MOUNTED FIXTURE
	SURFACE MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	RECESSED MOUNTED FIXTURE
	RECESSED MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	POLE MOUNTED FIXTURE
	POLE MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	WALL MOUNTED FIXTURE
	WALL MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	CEILING FAN/LIGHT COMBO
	EXHAUST FAN, VENT TO EXT.
	EXHAUST FAN LIGHT COMBO, VENT TO EXT.
	EXIT LIGHT FIXTURE, ARROWS & EXIT FACE AS INDICATED ON DRAWINGS (MOUNTING HEIGHTS TO BE DETERMINED BY JOB SPECIFICATIONS)
	SPOTLIGHT FIXTURE - DOUBLE OR SINGLE HEAD
	EMERGENCY BATTERY REMOTE LIGHTING HEADS. MOUNT +80" A.F.F.
	EMERGENCY EXIT SIGN WITH BATTERY UNIT AND LIGHTING HEADS. MOUNT +80" A.F.F.
	EMERGENCY BATTERY COMBINATION UNIT W/ LIGHTING HEADS. MOUNT +80" A.F.F.
	LIGHT TRACK, LENGTH AS INDICATED ON DRAWINGS W/ # OF LIGHTS INDICATED ON LIGHTING SCHEDULE
	IN-GROUND OR FLOOR MOUNTED FIXTURE
	SINGLE LUMINARE POLE MOUNTED SITE LIGHTING FIXTURE
	TWIN LUMINARE POLE MOUNTED SITE LIGHTING FIXTURE
	ROADWAY LUMINARE - COBRA HEAD

FIRE ALARM SYMBOLS	
	KNOX BOX
	POST INDICATOR VALVE
	CONTROL RELAY
	HORN & STROBE
	HORN UNIT ONLY
	STROBE UNIT ONLY
	SPEAKER & STROBE
	MANUAL PULL STATION
	FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR - CEILING MOUNTED
	SMOKE DETECTOR - WALL MOUNTED
	AREA TYPE SMOKE DETECTOR USED @ DUCT WORK OPENING
	DUCT SMOKE DETECTOR W/ TWO AUXILIARY CONTACTS
	ELEVATOR RECALL W/ AUXILIARY CONTACTS
	SELF CONTAINED SMOKE DETECTOR - SINGLE STATION TYPE
	SMOKE DETECTOR - VISUAL & AUDIBLE SIGNAL
	REMOTE STATION FOR DUCT DETECTOR USED @ DUCT WORK OPENING
	CARBON MONOXIDE DETECTOR, LINE VOLTAGE W/ BATTERY BACKUP
	FLAME DETECTOR
	AUTOMATIC HEAT DETECTOR
	AUTOMATIC HEAT DETECTOR, *T INDICATES FIXED TEMPERATURE 190°F
	MOTOR OPERATED FIRE/SMOKE DUCT DAMPER

POWER SYMBOLS	
	DUPLEX CONVENIENCE RECEPTACLE, 20A 115V WALL MOUNT DEVICE
	DBL DUPLEX CONVENIENCE RECEPTACLE
	DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY/STANDBY CIRCUIT
	DBL DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY/STANDBY CIRCUIT
	JUNCTION BOX
	THERMOSTAT

ELECTRICAL SWITCH SYMBOLS	
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	DIMMER SWITCH
	GLOW SWITCH TOGGLE, GLOWS IN OFF POSITION
	KEY OPERATED SWITCH
	LOW VOLTAGE SWITCH
	WEATHERPROOF SINGLE POLE SWITCH
	OCCUPANCY SENSOR - WALL MOUNTED W/ OFF-AUTO OVERRIDE SWITCH
	OCCUPANCY SENSOR - CEILING MOUNTED
	T* INDICATES MULTIPLE SWITCHES WIRED IN PARALLEL

SECURITY SYMBOLS	
	CCTV CAMERA *WP INDICATES WEATHER-PROOF EXTERIOR CAMERA
	CCTV COAXIAL CABLE OUTLET & POWER OUTLET
	CCTV MONITOR OUTLET
	DOORBELL
	DOOR BUZZER
	DOOR CHIME
	ELECTRIC DOOR OPENER
	ELECTRIC DOOR STRIKE
	INTERCOM UNIT - FLUSH MOUNT
	MASTER INTERCOM & DIRECTORY UNIT
	MOTION DETECTOR
	SECURITY DOOR ALARM MAGNETIC LOCK
	SECURITY CARD READER, *WP INDICATES WEATHER PROOF
	SECURITY CONTROL PANEL
	SECURITY DOOR CONTACTS
	SECURITY PUSH BUTTON
	SECURITY KEYPAD

POWER DISTRIBUTION SYMBOLS	
	LIGHTING OR POWER DISTRIBUTION PANEL, RECESSED
	LIGHTING OR POWER DISTRIBUTION PANEL, SURFACE
	SERVICE DISCONNECT PANEL
	SERVICE METER
	SERVICE DISCONNECT SWITCH
	ELECTRICAL CIRCUITRY

COMMUNICATION SYMBOLS	
	DATA OUTLET
	DATA OUTLET - FLOOR TYPE
	TELEPHONE/DATA OUTLET
	TELEPHONE OUTLET - WALL MOUNTED
	CALL IN SWITCH
	CABLE ANTENNA SYSTEM OUTLET (CATV)
	MASTER ANTENNA SYSTEM OUTLET (MATV)
	MICROPHONE OUTLET - FLOOR MOUNTED
	MICROPHONE OUTLET - WALL MOUNTED
	SPEAKER - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER HORN

ELECTRICAL PLAN NOTES:	
1.	ALL ELECTRICAL WORK IS TO BE IN ACCORDANCE WITH THE INDIANA ELECTRICAL CODE 2009 EDITION (NFPA 70-2008) (675 IAC 17-1.5) EFFECTIVE 8/26/09.
2.	ELECTRICAL WORK SHALL BE DONE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AS INCORPORATED BY THE INDIANA ELECTRICAL RULES.
3.	EQUIPMENT FURNISHED FOR THIS JOB SHALL BE NEW & LISTED BY UL.
4.	ELECTRICAL CONTRACTOR SHALL PAY ALL FEES REQUIRED FOR ELECTRICAL WORK & ANY PERMITS NECESSARY TO PERFORM WORK.
5.	COORDINATE ALL REVISIONS TO SERVICE ENTRANCE EQUIPMENT WITH DUKE ENERGY.
6.	ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL TEMPORARY LIGHTING & POWER AS REQUIRED FOR OTHER CONSTRUCTION TRADES PERFORMING WORK ON THE PROJECT.
7.	WORK SHALL BE DONE IN STRICT COMPLIANCE WITH LAST PUBLISHED CODES AND STANDARDS AS LISTED BELOW AS EACH SHALL APPLY: A. INDIANA OSHA STANDARDS. B. NATIONAL ELECTRICAL CODE AS INCORPORATED INTO THE INDIANA ELECTRICAL RULES. C. NATIONAL ELECTRICAL MANUFACTURE'S ASSOCIATION. D. APPLICABLE CODES & STANDARDS INCLUDING STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, & NATIONALLY ACCEPTED CODES & STANDARDS.
9.	FURNISH & INSTALL FIXTURES WHERE INDICATED ON THE DRAWINGS. A. RECEPTACLES: 15 AMPERE, 125 VOLT, HUBBELL #5252-1 B. WALL SWITCHES: 20 AMPERE, 120 VOLT, HUBBELL #1201-1 FOR 1 POLE; USE MATCHING FOR 3-WAY APPLICATIONS. C. GFI RECEPTACLES: 15 AMPERE, 125 VOLT, HUBBELL #GF-5252-1 WITH A #P26 COVER PLATE FOR INDOORS AND A #WP-26 COVER PLATE FOR OUTDOORS. D. WP SWITCHES: 15 AMPERE, 125 VOLT, HUBBELL #5252-1 WITH A #5206 WO COVER PLATE.
10.	THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN CLEAN UP. DEBRIS SHALL BE REMOVED DAILY, & THE SITE SHALL BE LEFT IN BROOM CLEAN CONDITION AT THE END OF THE PROJECT.
11.	THE ELECTRICAL CONTRACTOR SHALL ACQUANT HIMSELF WITH DETAILS OF THE WORK TO BE PERFORMED & TAKE NECESSARY STEPS TO INTEGRATE & COORDINATE WORK.
12.	ALL DISTRIBUTION PANELS SHALL HAVE TYPE WRITTEN LABELS.
13.	ELECTRICAL SUBCONTRACTOR TO COORDINATE W/ HVAC SUBCONTRACTOR FOR ALL ELECTRICAL REQUIREMENTS OF ACTUAL EQUIPMENT UTILIZED, INCLUDING HIGH & LOW VOLTAGE WIRING REQUIREMENTS, DISCONNECTS, ETC.
14.	ELECTRICAL SUBCONTRACTOR SHALL PROVIDE & INSTALL ALL ELECTRICAL REQUIREMENTS, INCLUDING CONDUIT, WIRE, CIRCUIT BREAKERS, DISCONNECTS, ETC. FOR MECHANICAL EQUIPMENT, SEE PLANS FOR MECHANICAL EQUIPMENT LOCATIONS.
15.	SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP & CONNECTED TO THE SAME CIRCUIT. SMOKE ALARM PLACEMENT TO BE PER MFG'S RECOMMENDATION W/ RESPECT TO PROXIMITY & DISTANCE FROM RETURN AIR REGISTERS.
16.	PROVIDE 30A/2P INSULATED & WEATHERPROOFED CONNECTION FOR ALL OUTDOOR CONDENSING UNITS & FUSES PER MFG'S NAMEPLATE.
17.	PROVIDE A GROUND FAULT CIRCUIT INTERRUPTER OUTLET (120V/20A) WITHIN TWENTY FEET OF ANY EXTERIOR CONDENSING UNIT AND WITHIN ALL HVAC ROOMS.
18.	PROVIDE GROUND FAULT CIRCUIT INTERRUPTERS OUTLETS AT ALL BATH, KITCHEN, ROOFTOPS, AND OUTDOOR AREAS WITHIN SIX FEET OF ANY SINK.

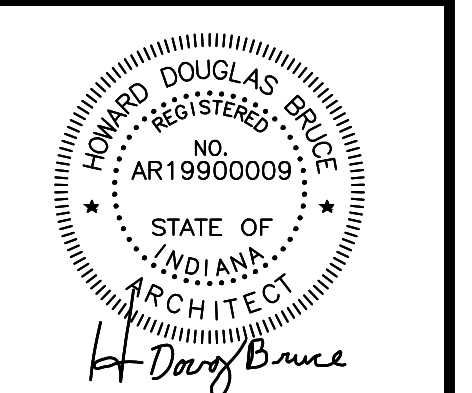
DEVICE MOUNTING HEIGHTS	
* DEVICES FOR MECHANICAL EQUIPMENT MUST BE COORDINATED WITH EQUIPMENT REQUIREMENTS. ALL HEIGHTS ARE FROM FINISHED FLOOR OR FACE OR STUD TO CENTER OF DEVICE	
CONVENIENCE OUTLET	+18" AFF
DATA/COMMUNICATION OUTLET	+18" AFF
LIGHT SWITCH OR DIMMER	+44" AFF
DEVICES ABOVE COUNTERTOP	+44" AFF
EXIT LIGHT	+96" AFF
THERMOSTAT OR TEMPERATURE SENSOR	+48" AFF
FIRE ALARM PULL STATION	+48" AFF
FIRE ALARM HORN	+96" AFF
FIRE ALARM STROBE	+80" AFF
FIRE ALARM HORN/STROBE COMBO	+80" AFF
FIRE ALARM REMOTE ALARM LAMP	+96" AFF

AN ADDITION FOR:

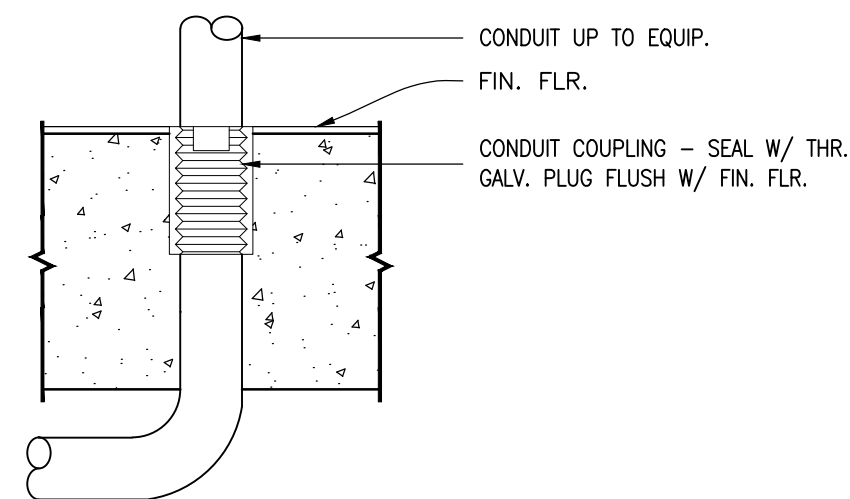
BIG WOODS PATIO BAR

120 N GRANT ST,
BLOOMINGTON, IN 47408

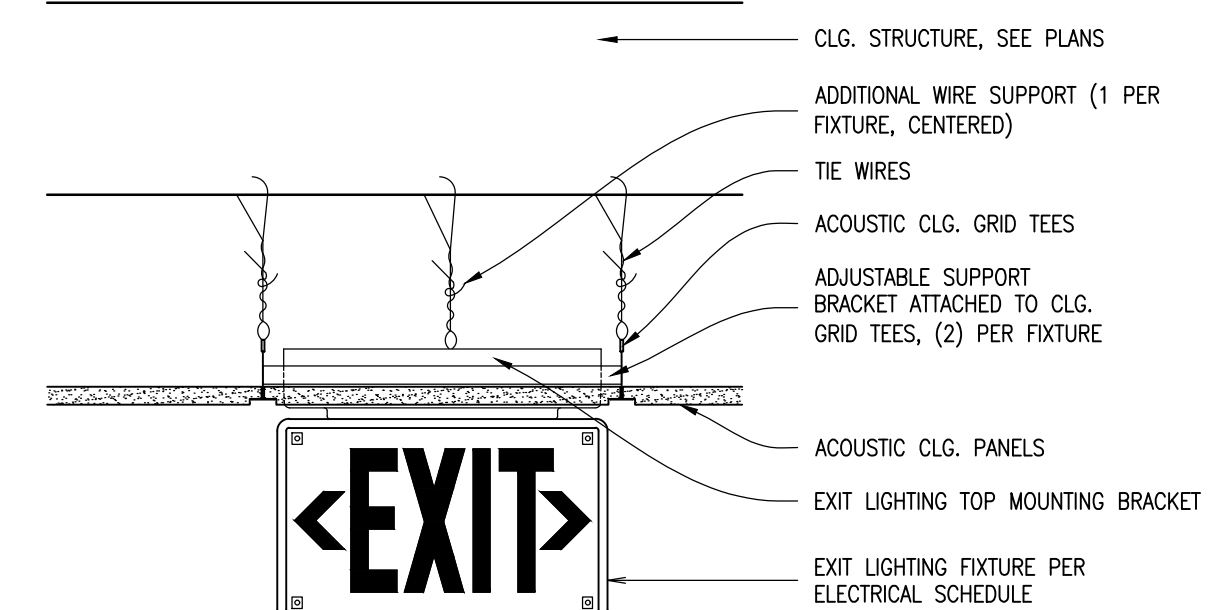
TAVOR BRUCE ARCHITECTURE & DESIGN INC.
1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TAVORBRUCE.COM



PROJECT NO.	1322
DATE	OCTOBER 17, 2023
DRAWN BY	S. MATTHEWS
CHECKED BY	D. BRUCE
SHEET NAME	ELECTRICAL SYMBOLS AND ABBREVIATIONS
SHEET NO.	EL001



B CONDUIT STUB-UP DETAIL
NOT TO SCALE

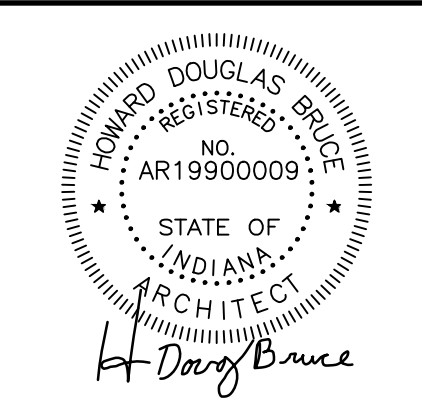


A EXIT LIGHT DETAIL
NOT TO SCALE

EL001

REVISIONS

AN ADDITION FOR:
BIG WOODS PATIO BAR
 120 N GRANT ST.,
 BLOOMINGTON, IN 47408

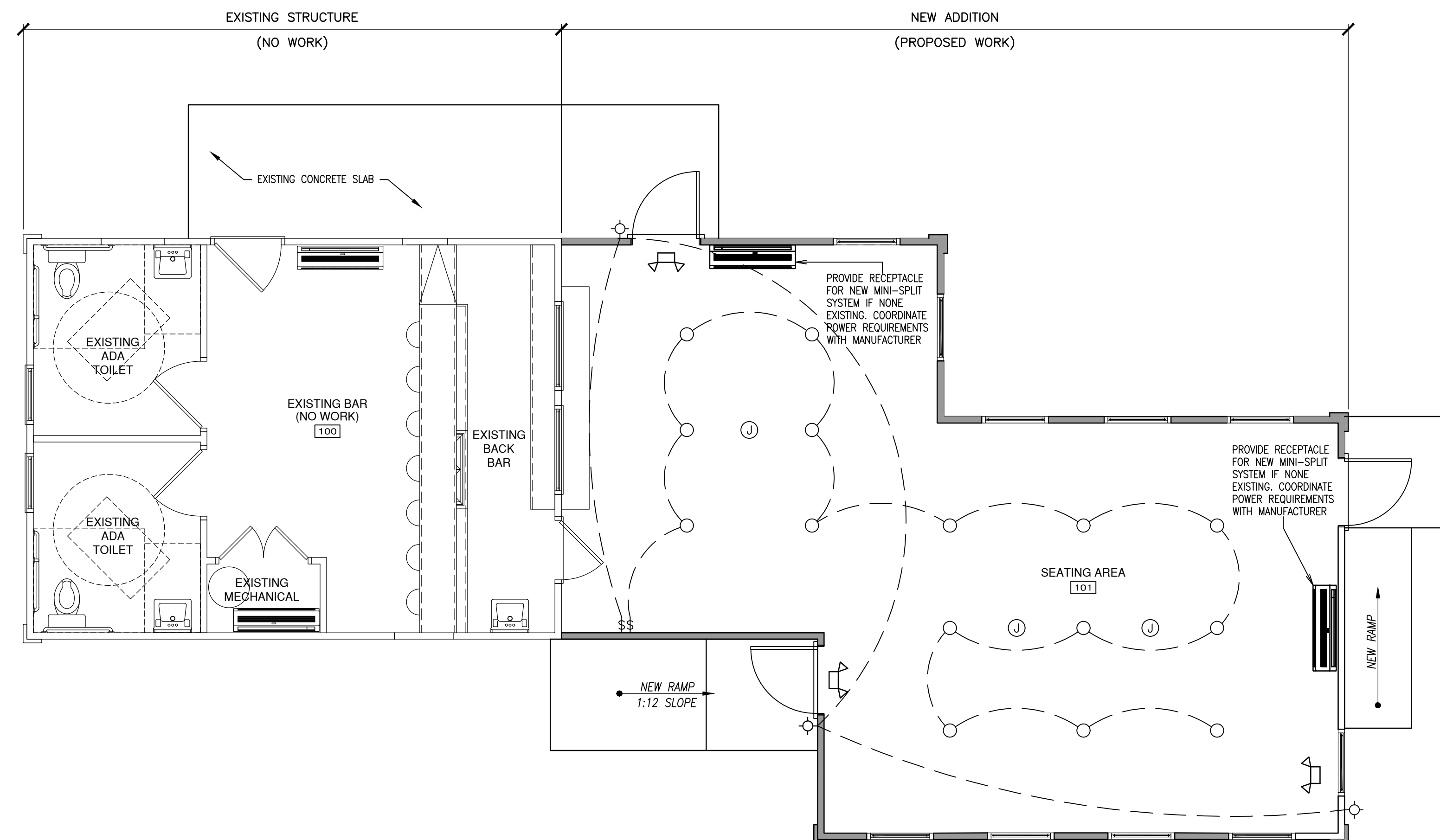


PROJECT NO. 1322
 DATE OCTOBER 17, 2023
 DRAWN BY S. MATTHEWS
 CHECKED BY D. BRUCE

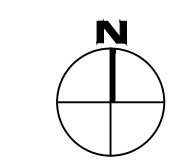
SHEET NAME
ELECTRICAL LIGHTING PLAN

SHEET NO.

EL101



1 ELECTRICAL LIGHTING PLAN
 1/4" = 1'-0"



LIGHTING SYMBOLS	
○	SURFACE MOUNTED FIXTURE AS JUNG LIGHTING 10 WATT 5" SLIM FORM LED, 120V 3500K DOWNLIGHT, JSF 5IN
⊕	EXTERIOR SURFACE MOUNTED FIXTURE, 20 WATT LED
⊙	JUNCTION BOX
⏏	EMERGENCY EXIT SIGN W/ BATTERY UNIT & LIGHTING HEADS, 3.2 WATT LED
ELECTRICAL SWITCH SYMBOLS	
⚡	SINGLE POLE SWITCH

REGISTER OF PAYROLL CLAIMS
Board: Board of Public Works Claim Register

Date:	Type of Claim	FUND	Description	Bank Transfer	Amount
12/29/2023	Payroll				525,098.92
					<u>525,098.92</u>

ALLOWANCE OF CLAIMS

We have examined the claims listed on the foregoing register of claims, consisting of 1
claim, and except for the claims not allowed as shown on the register, such claims are hereby allowed in the
total amount of \$ 525,098.92

Dated this 2nd day of January year of 2024.

Kyla Cox Deckard, President Elizabeth Karon, Vice President Jane Kupersmith, Secretary

I hereby certify that each of the above listed voucher(s) or bill(s) is (are) true and correct and I have audited same in accordance with IC 5-11-10-1.6.

Fiscal Officer _____



Board of Public Works Staff Report

Project/Event:	Sidewalk Closure Extension on W Allen St
Staff Representative:	Alex Gray
Petitioner/Representative:	FA Wilhelm
Date:	January 2 nd , 2024

Report: FA Wilhelm is working with Catalent while they are working on their building and is requesting an extension on their sidewalk closure that ended on October 12th, 2023. This permit is to allow them to keep it closed as the sidewalk has been removed. The new sidewalk closure will continue through March 12th, 2024.



City of Bloomington
Engineering Department
bloomington.in.gov

401 N Morton ST Suite 130
PO Box 100
Bloomington IN 47404

Phone: (812) 349-3913
Fax: (812) 349-3520
engineering@bloomington.in.gov

ROW2023-10-0533
Type: **Right of Way**
Work Class: **Right of Way Use**
Status: **Issued**
Issued: **10/25/2023**
Expires: **10/24/2024**
Updated: **10/25/2023**
Updated By: **Alex Gray**
Inspector: **Alex Gray**

1100 S Strong DR

Sidewalk replacement on Strong Dr and W Allen St for 2 weeks from 9/29/2023 to 10/12/2023.

Applicant

Jared Kipfer

Jaredkipfer@fawilhelm.com

Company

F.A. Wilhelm Construction
3914 Prospect ST
Indianapolis IN 46203
(317) 359-5411

24-Hour Contact

Dan Grose

(317) 318-4435

Fee	Amount	Paid	Due
Sidewalk Reconstruction	\$133.80	\$133.80	\$0.00
Sidewalk Closure	\$200.00	\$200.00	\$0.00
Sidewalk New Construction	\$16.90	\$16.90	\$0.00
Application Fee	\$100.00	\$100.00	\$0.00
	\$450.70	\$450.70	\$0.00

Location	Type	Description	Length	Width	Depth
1100 S Strong Dr	Sidewalk Reconstruction	1338 SQFT			
1100 S Strong Dr	Sidewalk New Construction	338 SQFT			

Special Provisions

Standards Conditions of Approval

- 1) Permittee is required to call the Engineering Department at 812-349-3913 for inspection of any work at the City of Bloomington Right-of-Way prior to placing any concrete, or at any point specified in the Specific Conditions of Approval.
- 2) This approval only covers concerns within the jurisdictions of the City of Bloomington Engineering Department, other entities or agencies may also need to grant approval for work done in the course of this project.
- 3) Projects shall conform to all current A.D.A.(Americans with Disabilities Act) and PROWAG (Public Rights-of-Way Accessibility Guidelines) requirements.
- 4) All utility work shall conform to specifications to be obtained from the owner of the affected utility, and work on said utility shall be performed only with expressed permission of its owner. It shall be the responsibility of the permittee to obtain any necessary inspections or approvals from the owner of the utilities involved.
- 5) Permittee shall be responsible for supplying and placing all required signs and barricades. All signs and barricades, and their placement, shall conform to current M.U.T.C.D. and I.N.D.O.T. standards. All required traffic control measures shall be in place before work begins.
- 6) Any work in a street shall conform to the City of Bloomington Street Cut Requirements. Copies of these requirements are available from the Engineering Department. All damaged Public Improvements must be repaired to prior conditions or improved conditions.
- 7) Any damage to any underground facility or utility must be reported immediately to the City of Bloomington Engineering Department and the owner of the facility or utility (if known). If not, the permittee will be required to re-excavate the damaged facility or utility, at their expense, to demonstrate that repairs have been made to the satisfaction of the owner of the damaged facility or utility.
- 8) All existing signs, or appurtenances (STOP, YIELD, NO PARKING, bollards, parking meters, etc.) that are owned by the City of Bloomington shall be removed and replaced only by the City of Bloomington Traffic Division. Any signs removed, or installed, by the permittee are subject to removal or replacement by the Traffic Division with Permittee being billed for time and materials.
- 9) All existing pavement markings (crosswalks, edge lines, etc) that are disturbed within the Right-of-Way shall be replaced at the direction of the City Engineer or their designee.
- 10) Permittee shall notify the Engineering Department when steel plates are to be used over open excavations within the Right-of-Way.
- 11) Permittee shall be responsible for repairing any damage to both paved and unpaved portions of the Right-of-Way that results from either the excavation or use of the Right-of-Way in accordance with all City Standards.
- 12) Permittee shall be responsible for all costs associated to the repair of any damage of City-owned utilities, signs, or other appurtenances that results from the use or excavation of the Right-of-Way.



CITY OF BLOOMINGTON

RIGHT-OF-WAY USE PERMIT APPLICATION

401 N Morton Street, Suite 130
P.O. Box 100
Bloomington, IN 47402

Phone: (812) 349-3913
Fax: (812) 349-3520
Email:
engineering@bloomington.in.gov

ROW EXCAVATION ROW USE

ADDRESS OF ROW ACTIVITY: 1100 Strong Drive

A. APPLICANT/AGENT INFORMATION: APPLICANT NAME: <u>Jared Kipfer</u> E-MAIL: <u>Jaredkipfer@fawilhelm.com</u> COMPANY: <u>F.A. Wilhelm</u> ADDRESS: <u>3914 Prospect St.</u> CITY, STATE, ZIP: <u>Indianapolis IN 46203</u> 24-HR EMERGENCY CONTACT NAME: <u>Dan Grose</u> 24-HR CONTACT PHONE #: <u>317-318-4435</u> INSURANCE #*: _____ COMPANY: _____ BOND #*: _____ COMPANY: _____ <small>* INSURANCE & BOND MUST BE ON FILE WITH THE CITY BEFORE PERMIT WILL BE ISSUED</small> **SUBCONTRACTOR INFORMATION** <small>(LIST ALL COMPANIES WORKING UNDER PRIMARY CONTRACTOR PERMIT)</small> COMPANY NAME: <u>E&B Paving</u>	D. TRAFFIC CONTROL DEVICES*: <input type="checkbox"/> CONES <input checked="" type="checkbox"/> ARROWBOARD <input type="checkbox"/> LIGHTED BARRELS <input checked="" type="checkbox"/> TYPE 3 BARRICADES <input type="checkbox"/> FLAGGERS <input type="checkbox"/> BPD OFFICER <small>*PROVIDING MUTCD COMPLIANT TEMPORARY TRAFFIC CONTROL DEVICES AND MAINTENANCE OF TRAFFIC (MOT) PLAN IS YOUR RESPONSIBILITY AND REQUIRED See page 3 for additional MOT resources; the graph paper can be used for your MOT site plan if needed or you can submit a separate sheet</small> E. METERED PARKING SPACES NEEDED: <input type="checkbox"/> Y <input type="checkbox"/> N <small>IT IS THE RESPONSIBILITY OF THE APPLICANT TO RESERVE PARKING METER(S) APPLICATION LOCATED: https://bloomington.in.gov/transportation/parking/moving OR CONTACT PARKING SERVICES WITH QUESTIONS AT (812)349-3436</small> F. IS THIS A <input type="checkbox"/> CBU* <input type="checkbox"/> COUNTY* <input type="checkbox"/> IU* <input type="checkbox"/> NP* PROJECT? PROJECT NAME: <u>NA</u> PROJECT #: PROJECT MGR.: <small>*CBU = CITY OF BLOOMINGTON UTILITIES *COUNTY = MONROE COUNTY *IU= INDIANA UNIVERSITY *NP= NOT-FOR-PROFIT AGENCY</small> G. EXCAVATIONS: SQ FT OF PAVEMENT* EXCAVATIONS : <u>NA</u> <small>*PAVEMENT INCLUDES: IN OR UNDER CONCRETE, OR ASPHALT INCLUDING CURBS</small> SQ FT OF NON-PAVEMENT* EXCAVATIONS: <u>NA</u> <small>*DIRT, GRASS, GRAVEL, LANDSCAPE AREA OR OTHER UNPAVED SURFACE</small> LINEAL FT OF BORE*: <u>NA</u> <small>*BORE PITS SHALL BE CALCULATED AS SQ FT EXCAVATIONS</small> # OF POLE INSTALLATIONS/REMOVAL: <u>NA</u> SQ FT OF SIDEWALK RECONSTRUCTION*: <u>1,338</u> <small>*CONCRETE OR ASPHALT SIDEWALK/PATH BEING IMPROVED/REPLACED</small> SQ FT OF SIDEWALK NEW CONSTRUCTION*: <u>338</u> <small>*CONCRETE OR ASPHALT SIDEWALK/PATH THAT IS NEW INFRASTRUCTURE</small> #RESIDENTIAL DRIVEWAY INSTALLATION: <u>NA</u>
B. WORK DESCRIPTION: <input type="checkbox"/> POD/DUMPSTER <input type="checkbox"/> CRANE <input type="checkbox"/> SCAFFOLDING <input type="checkbox"/> CONSTRUCTION USE* (EXPLAIN): <u>Sidewalk Replacement</u> <small>*EXCAVATION, LONG TERM USE FOR STORAGE OF MATERIAL/EQUIPMENT/WALKAROUND</small>	H. INDEMNIFICATION AGREEMENT: The petitioner/applicant hereby agrees to hold harmless, defend and to indemnify the City of Bloomington from or against all claims, action, damages and expenses, including but not limited to reasonable attorney's fees or any alleged injury and/or death to any person or damage to any property arising, or alleged to have arisen out of any act of commission or omission on the part of the petitioner/applicant, his/her heirs, successors, or assigns regardless of whether such acts are the direct or indirect result of the public right-of-way use pursuant to this permit grant. I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT THE FOREGOING REPRESENTATIONS ARE TRUE. PRINT NAME: <u>Jared Kipfer</u> SIGNATURE: DATE: <u>12/20/23</u>
C. RIGHT OF WAY TO BE USED/CLOSED: STREET NAME 1: <u>Strong Drive</u> 1ST INTERSECTING STREET NAME: <u>W. Allen Street</u> 2ND INTERSECTING STREET NAME: <input type="checkbox"/> ROAD CLOSURE <input type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> <input checked="" type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER TRANSIT STOP? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <small>**NON-METERED</small> START DATE: <u>12/20/23</u> END DATE: <u>03/12/23</u> # OF DAYS*: <u>14</u> STREET NAME 2: 1ST INTERSECTING STREET NAME: 2ND INTERSECTING STREET NAME: <input type="checkbox"/> ROAD CLOSURE <input type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> <input type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N <small>**NON-METERED</small> START DATE: _____ END DATE: _____ # OF DAYS*: _____ <small>*SIDEWALK CLOSURES FOR A PERIOD OR PERIODS TOTALING 24HRS OR MORE SHALL INSTALL A WALKAROUND UNLESS OTHERWISE APPROVED DURING REVIEW</small>	TO SUBMIT A LOCATE REQUEST 24 HRS A DAY, 7 DAYS A WEEK CALL 811 OR 800-382-5544 CALL 2 WORKING DAYS BEFORE YOU DIG. ITS THE LAW.
STANDARD CLOSURE HOURS MON-FRI*: 9:00 AM - 3:00 PM & 6:00 PM - 9:00 PM STANDARD CLOSURE HOURS <input checked="" type="checkbox"/> *NON-STANDARD CLOSURE HOURS <input type="checkbox"/> REQUESTED CLOSURE HOURS: _____ AM - _____ PM <small>*non-standard hours may not be allowed near schools, on arterials, or other circumstances and are subject to approval during the permitting process BMC 14.09.040 allows work from 6 AM to 10 PM without violating the noise ordinance (7AM to 9PM for pneumatic hammers)</small>	

For Administration Use Only (applicable to CLOSURE approval)

Approved By: _____ BPW City Engineer Director Date: _____

Staff Representative: _____ Phone#: _____ Date: _____



Board of Public Works Staff Report

Project/Event: Atlantic Engineering Group (AEG)
Staff Representative: Alex Gray
Petitioner/Representative: Bret Simons
Date: January 2nd, 2024

Report: AEG is requesting lane closures and sidewalk closures in multiple locations of their project work areas. This request is to accommodate work on fiber installation via boring and aerial fiber installation. The traffic control would be in place from January 8th through the end of project, which we're estimating to be 4 weeks per project area.

AEG has supplied various maintenance of traffic plans for all work. They are also placing door hangers for public notice to property owners about scope of their work and contact information for if there are any issues. (see packet for details).

AEG is requesting for 2 area projects to be granted through this BPW meeting. The following area includes...

E Allen St This will include primarily aerial fiber with some underground fiber placement and will consist of the areas between W 2nd St to E Davis St and S Rogers St to S Lincoln St.

S Kirby Alley This will include primarily aerial fiber with some underground fiber placement and will consist of the areas between E 3rd St to E 2nd St and S Washington St to S Park Ave.



P.O. Box 349 | Buford, Georgia 30515
Main Office: (706)654-2298
www.aeg.cc

To: City of Bloomington – Engineering Department
Subject: City of Bloomington Right of Way Application

Dear Board Members,

Atlantic Engineering Group is planning a large FTTH project across the entire City of Bloomington. This work will take place at different locations throughout the year. In order to facilitate these upcoming projects, AEG is respectfully requesting access to the ROW as planned out in the submitted permits.

Weekday hours will be from 8-4pm. Hours Saturday will be from 8-3pm. This will only be restoration, splicing and/or cable pulling. School zone hours will be from 8:30-2:30pm.

Traffic control plans will be attached to each permit. No long-term road closures or sidewalk closures are expected. Signs and flaggers will be present when needed and move with the project as it moves throughout the city. The areas will all be identified on the plans we submit to the city's Engineering Department.

Proper door hangers will be placed prior to the construction starting in a particular area. The door hangers will provide information about the construction and contact information if any issues arise.

Bret Simons
Engineering Project Coordinator
Atlantic Engineering Group




CITY OF BLOOMINGTON RIGHT-OF-WAY USE PERMIT APPLICATION

401 N Morton Street, Suite 130
P.O. Box 100
Bloomington, IN 47402

Phone: (812) 349-3913
Fax: (812) 349-3520
Email:
engineering@bloomington.in.gov

ROW EXCAVATION ROW USE

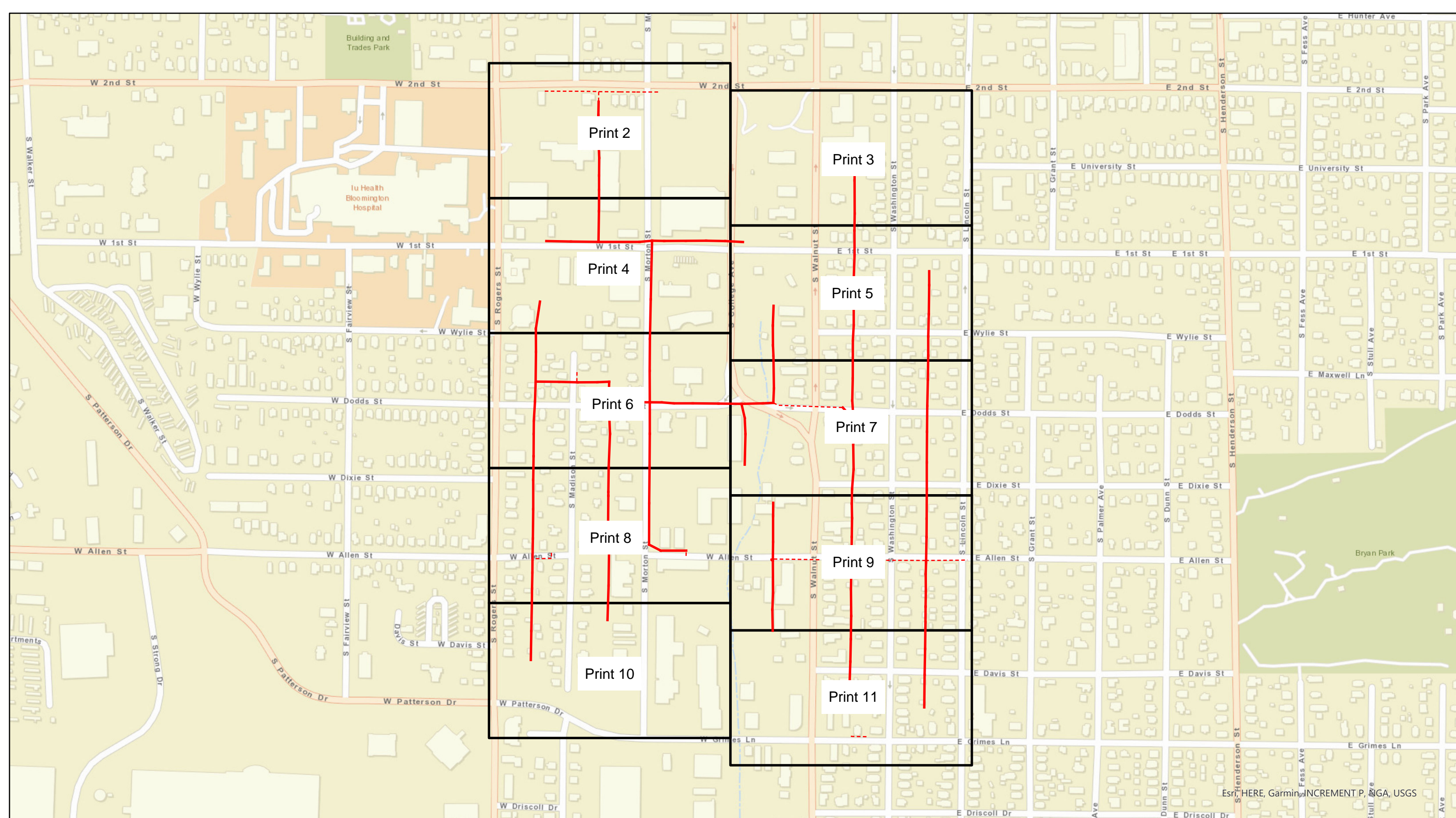
ADDRESS OF ROW ACTIVITY: BLC02a-F08_E Allen St

A. APPLICANT/AGENT INFORMATION:	D. TRAFFIC CONTROL DEVICES*:
APPLICANT NAME: <u>Bret Simons</u>	<input checked="" type="checkbox"/> CONES <input type="checkbox"/> ARROWBOARD
E-MAIL: <u>bret.simons@aeg.cc</u>	<input type="checkbox"/> LIGHTED BARRELS <input checked="" type="checkbox"/> TYPE 3 BARRICADES
COMPANY: <u>Atlantic Engineering Group</u>	<input checked="" type="checkbox"/> FLAGGERS <input type="checkbox"/> BPD OFFICER
ADDRESS: <u>P.O. Box 349</u>	*PROVIDING MUTCD COMPLIANT TEMPORARY TRAFFIC CONTROL DEVICES AND MAINTENANCE OF TRAFFIC (MOT) PLAN IS YOUR RESPONSIBILITY AND REQUIRED. See page 3 for additional MOT resources; the graph paper can be used for your MOT site plan if needed or you can submit a separate sheet
CITY, STATE, ZIP: <u>Buford, GA 30515</u>	
24-HR EMERGENCY CONTACT NAME: <u>(706)654-2298</u>	E. METERED PARKING SPACES NEEDED: <input type="checkbox"/> Y <input type="checkbox"/> N
24-HR CONTACT PHONE #:	IT IS THE RESPONSIBILITY OF THE APPLICANT TO RESERVE PARKING METER(S) APPLICATION LOCATED: https://bloomington.in.gov/transportation/parking/moving OR CONTACT PARKING SERVICES WITH QUESTIONS AT (812)349-3436
INSURANCE #*: <u>TB5-691-473497-082</u> COMPANY: <u>ACORD</u>	F. IS THIS A <input type="checkbox"/> CBU* <input type="checkbox"/> COUNTY* <input type="checkbox"/> IU* <input type="checkbox"/> NP* PROJECT?
BOND #*: <u>1160465</u> COMPANY: <u>LEXON</u>	PROJECT NAME: <u>BLC02a-F08 E Allen St</u>
*INSURANCE & BOND MUST BE ON FILE WITH THE CITY BEFORE PERMIT WILL BE ISSUED	PROJECT #: <u>BLC02a-F08 E Allen St</u>
SUBCONTRACTOR INFORMATION	PROJECT MGR.: <u>Patrick Brigman</u>
(LIST ALL COMPANIES WORKING UNDER PRIMARY CONTRACTOR PERMIT)	PROJECT MGR. #: <u>215-847-8819</u>
COMPANY NAME:	*CBU = CITY OF BLOOMINGTON UTILITIES *COUNTY = MONROE COUNTY
B. WORK DESCRIPTION:	*IU = INDIANA UNIVERSITY *NP = NOT-FOR-PROFIT AGENCY
<input type="checkbox"/> POD/DUMPSTER <input type="checkbox"/> CRANE <input type="checkbox"/> SCAFFOLDING <input checked="" type="checkbox"/> CONSTRUCTION USE*	G. EXCAVATIONS:
(EXPLAIN): <u>Excavation</u>	SQ FT OF PAVEMENT* EXCAVATIONS: <u>N/A</u>
*EXCAVATION, LONG TERM USE FOR STORAGE OF MATERIAL/EQUIPMENT/WALKAROUND	*PAVEMENT INCLUDES: IN OR UNDER CONCRETE, OR ASPHALT INCLUDING CURBS
C. RIGHT OF WAY TO BE USED/CLOSED:	SQ FT OF NON-PAVEMENT* EXCAVATIONS: <u>43 Sq Ft</u>
STREET NAME 1: <u>E Allen St</u>	*DIRT, GRASS, GRAVEL, LANDSCAPE AREA OR OTHER UNPAVED SURFACE
1ST INTERSECTING STREET NAME:	LINEAL FT OF BORE*: <u>2,159 Lineal Ft</u>
2ND INTERSECTING STREET NAME:	*BORE PITS SHALL BE CALCULATED AS SQ FT EXCAVATIONS
<input type="checkbox"/> ROAD CLOSURE <input checked="" type="checkbox"/> LANE CLOSURE 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	# OF POLE INSTALLATIONS/REMOVAL: <u>N/A</u>
<input checked="" type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER	SQ FT OF SIDEWALK RECONSTRUCTION*: <u>N/A</u>
TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N **NON-METERED	*CONCRETE OR ASPHALT SIDEWALK/PATH BEING IMPROVED/REPLACED
START DATE: <u>Dec. 8th</u> END DATE: _____ # OF DAYS*: <u>30</u>	SQ FT OF SIDEWALK NEW CONSTRUCTION*: <u>N/A</u>
STREET NAME 2:	*CONCRETE OR ASPHALT SIDEWALK/PATH THAT IS NEW INFRASTRUCTURE
1ST INTERSECTING STREET NAME:	#RESIDENTIAL DRIVEWAY INSTALLATION: <u>N/A</u>
2ND INTERSECTING STREET NAME:	 <p>TO SUBMIT A LOCATE REQUEST 24 HRS A DAY, 7 DAYS A WEEK CALL 811 OR 800-382-5544 CALL 2 WORKING DAYS BEFORE YOU DIG. IT'S THE LAW.</p>
<input type="checkbox"/> ROAD CLOSURE <input type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	
<input type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER	H. INDEMNIFICATION AGREEMENT:
TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N **NON-METERED	The petitioner/applicant hereby agrees to hold harmless, defend and to indemnify the City of Bloomington from or against all claims, action, damages and expenses, including but not limited to reasonable attorney's fees or any alleged injury and/or death to any person or damage to any property arising, or alleged to have arisen out of any act of commission or omission on the part of the petitioner/applicant, his/her heirs, successors, or assigns regardless of whether such acts are the direct or indirect result of the public right-of-way use pursuant to this permit grant.
START DATE: _____ END DATE: _____ # OF DAYS*: _____	I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT THE FOREGOING REPRESENTATIONS ARE TRUE.
*SIDEWALK CLOSURES FOR A PERIOD OR PERIODS TOTALING 24HRS OR MORE SHALL INSTALL A WALKAROUND UNLESS OTHERWISE APPROVED DURING REVIEW	PRINT NAME: <u>Bret Simons</u>
STANDARD CLOSURE HOURS MON-FRI*: 9:00 AM - 3:00 PM & 6:00 PM - 9:00 PM	SIGNATURE: <u>Bret Simons</u>
STANDARD CLOSURE HOURS <input checked="" type="checkbox"/> *NON-STANDARD CLOSURE HOURS <input type="checkbox"/>	DATE: <u>11/20/2023</u>
REQUESTED CLOSURE HOURS: _____ AM - _____ PM	
*non-standard hours may not be allowed near schools, on arterials, or other circumstances and are subject to approval during the permitting process	
BMC 14.09.040 allows work from 6 AM to 10 PM without violating the noise ordinance (7AM to 9PM for pneumatic hammers)	

For Administration Use Only (applicable to CLOSURE approval)

Approved By: _____ BPW City Engineer Director Date: _____

Staff Representative: _____ Phone#: _____ Date: _____

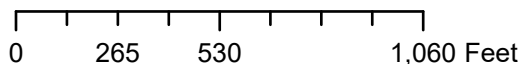


Esri, HERE, Garmin, INCREMENT P, ANGA, USGS



Legend BLC02a-F08_E Allen St

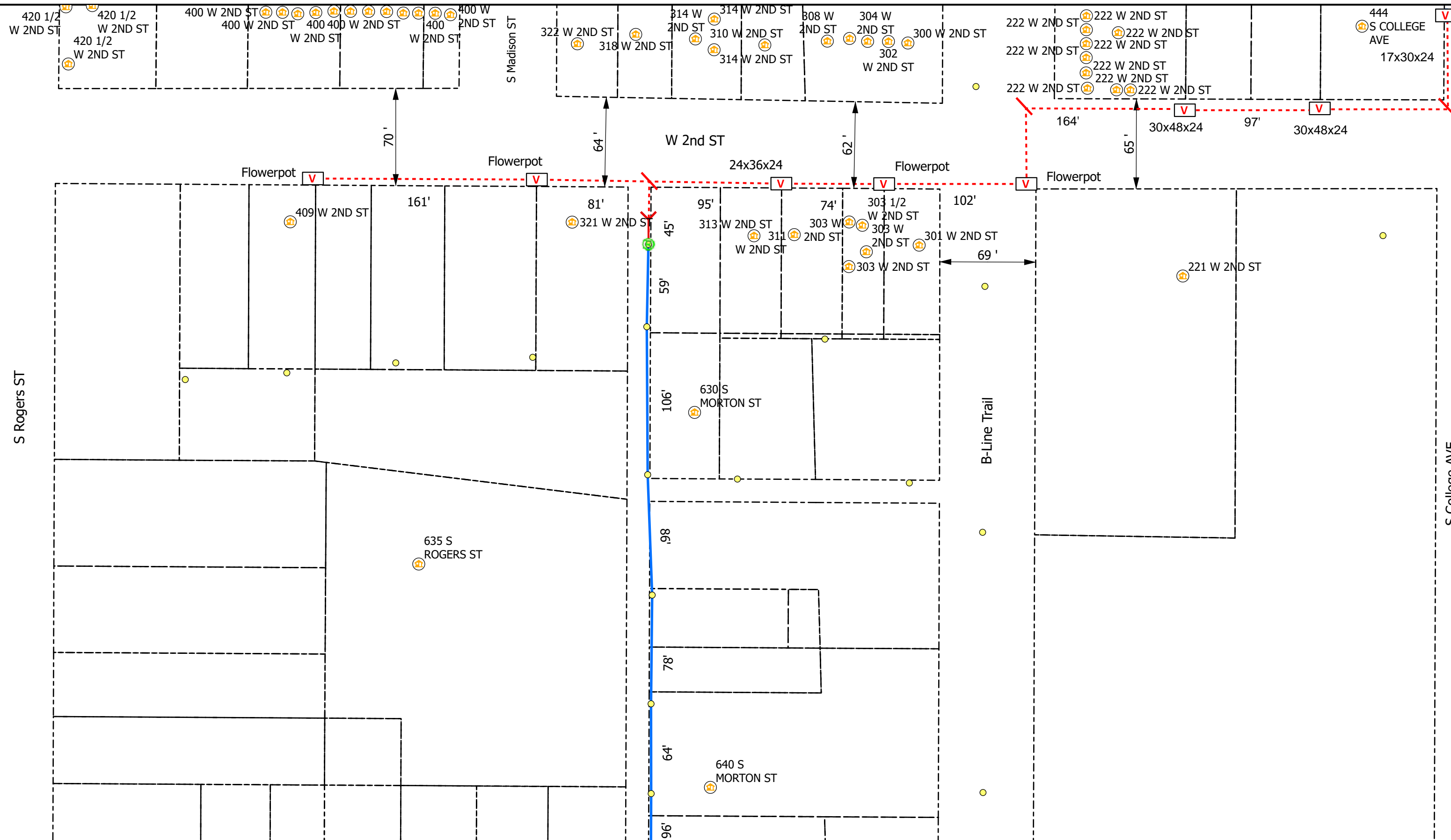
- Overhead Strand
- - - Conduit
- Grids



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION





Legend

- Poles
- Vaults
- Overhead Strand
- Conduit
- Risers
- Address
- Anchor
- Sidewalk
- Bloomington_Parcels
- Grids

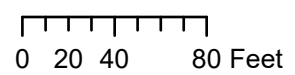
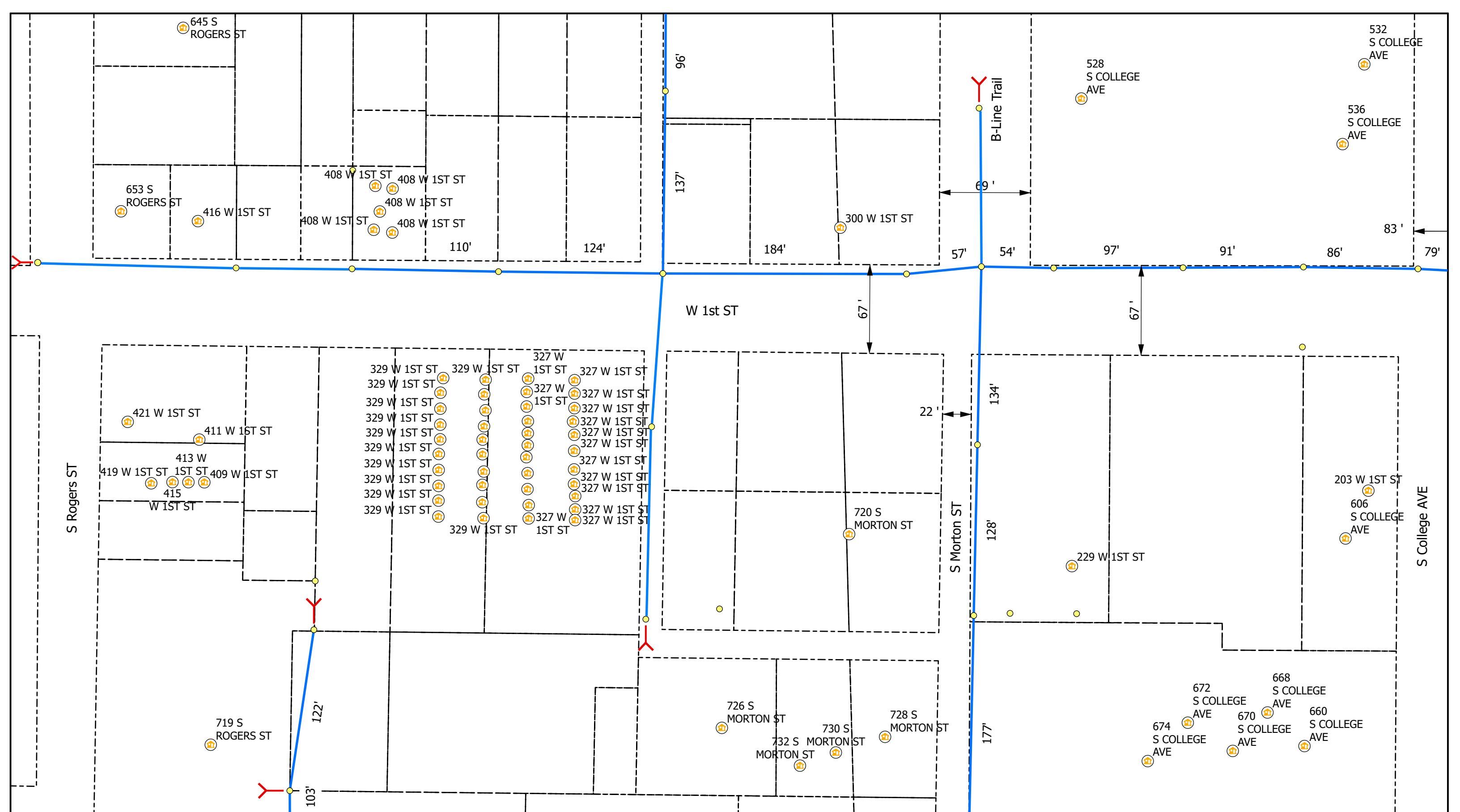
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION





Legend

- Poles
- ⌵ Sidewalk
- V Vaults
- Overhead Strand
- - - Conduit
- Ⓡ Risers
- 🏠 Address
- Y Anchor
- Bloomington_Parcels
- Grids

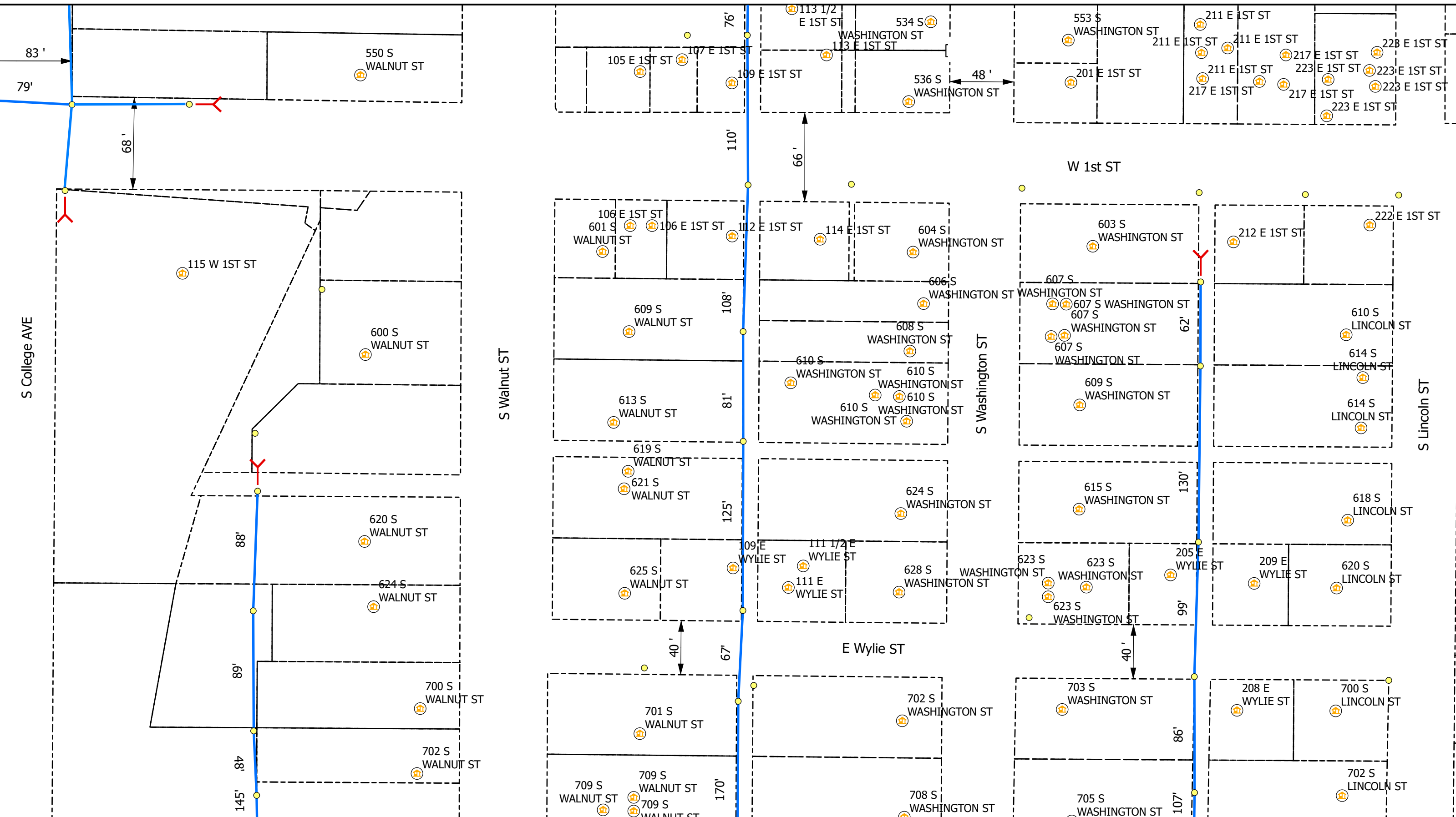
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

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Legend

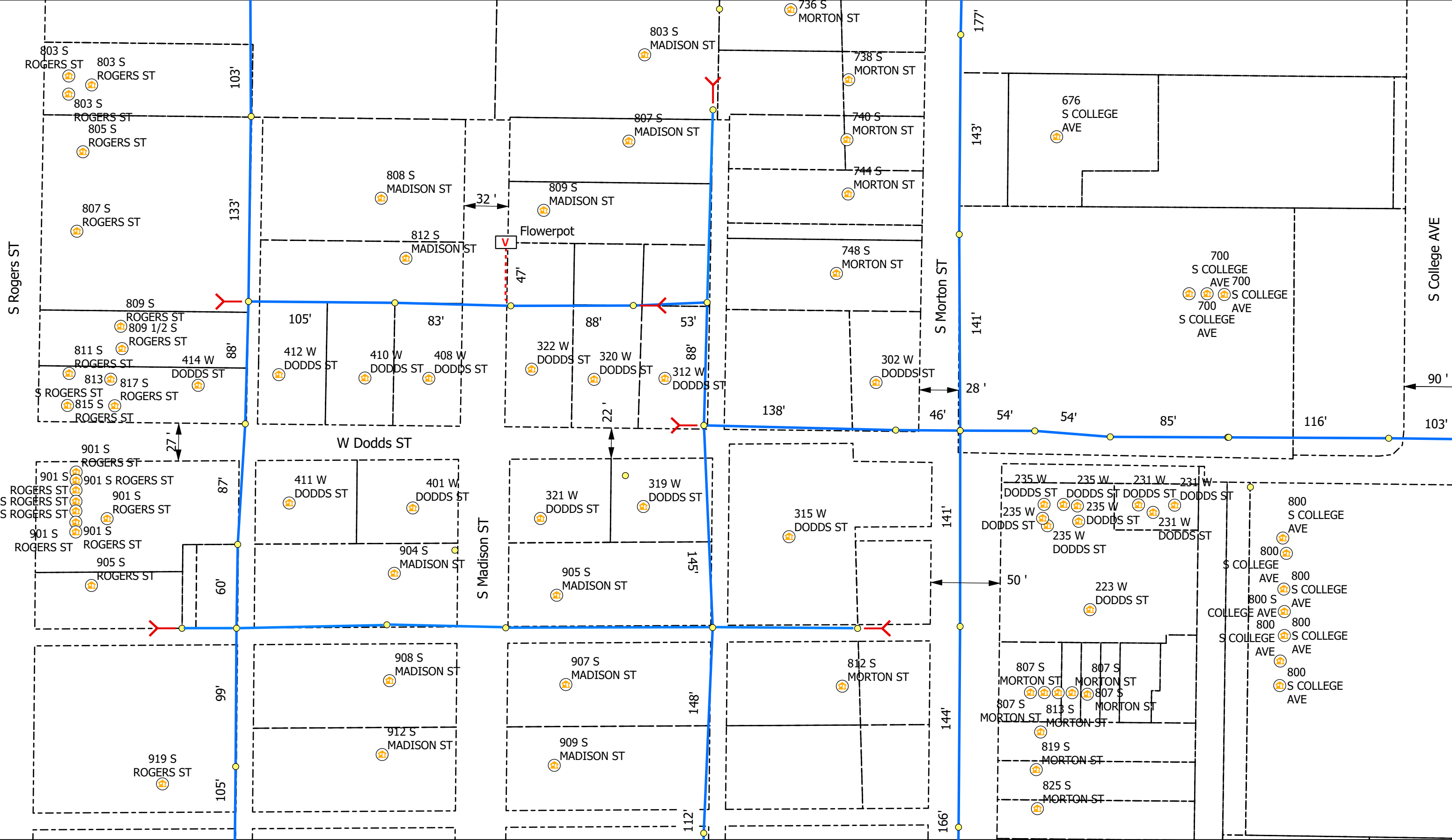
- Poles
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- Grids

All Flowerpots 12" DIA

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City of Bloomington, IN Permit:
Design View

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- Legend**
- Poles
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 - R Risers
 - A Address
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 - Bloomington_Parcels
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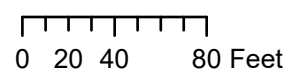
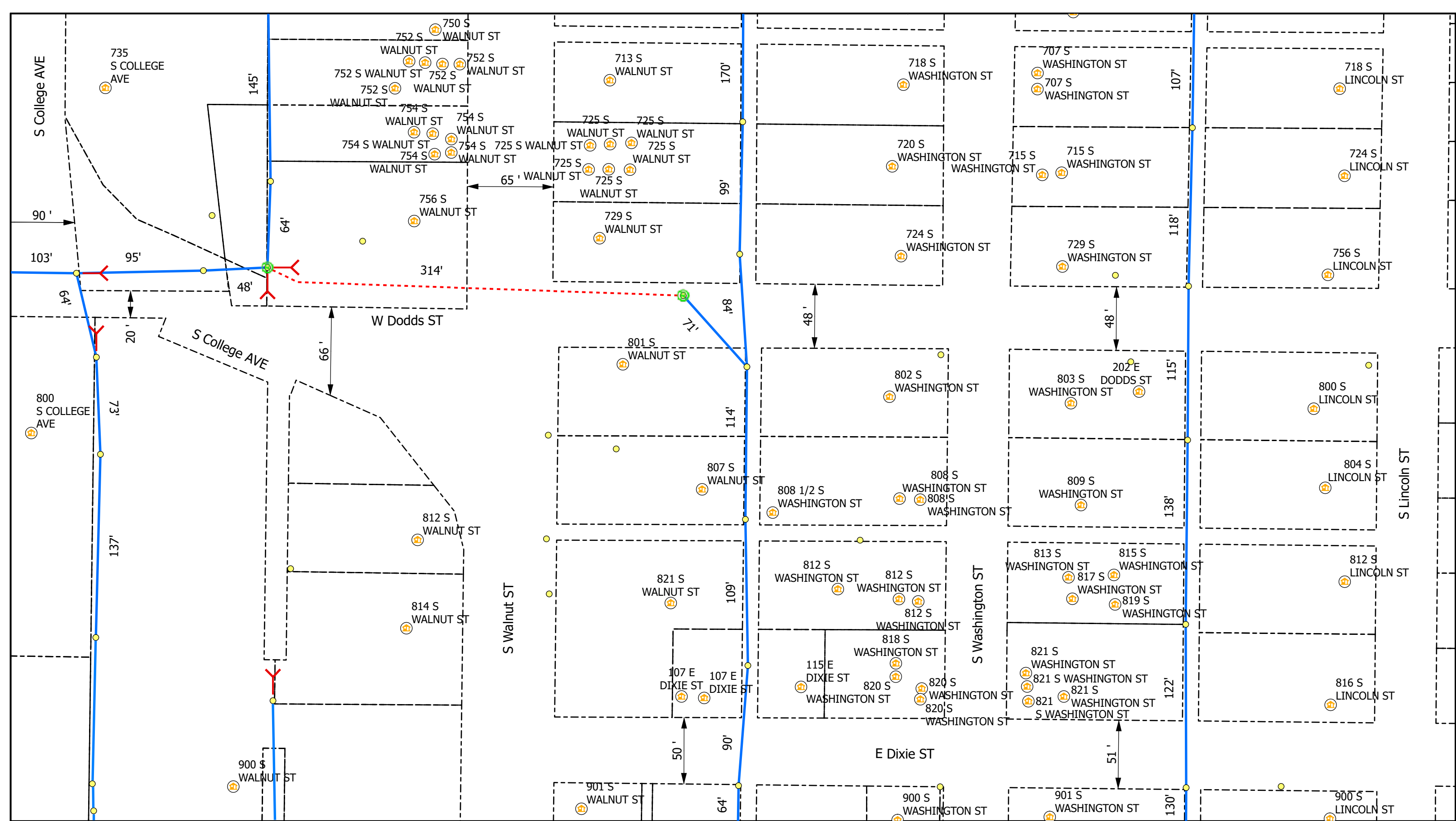
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION





Legend

- Poles
- Ⓡ Risers
- Ⓜ Sidewalk
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- Bloomington_Parcels
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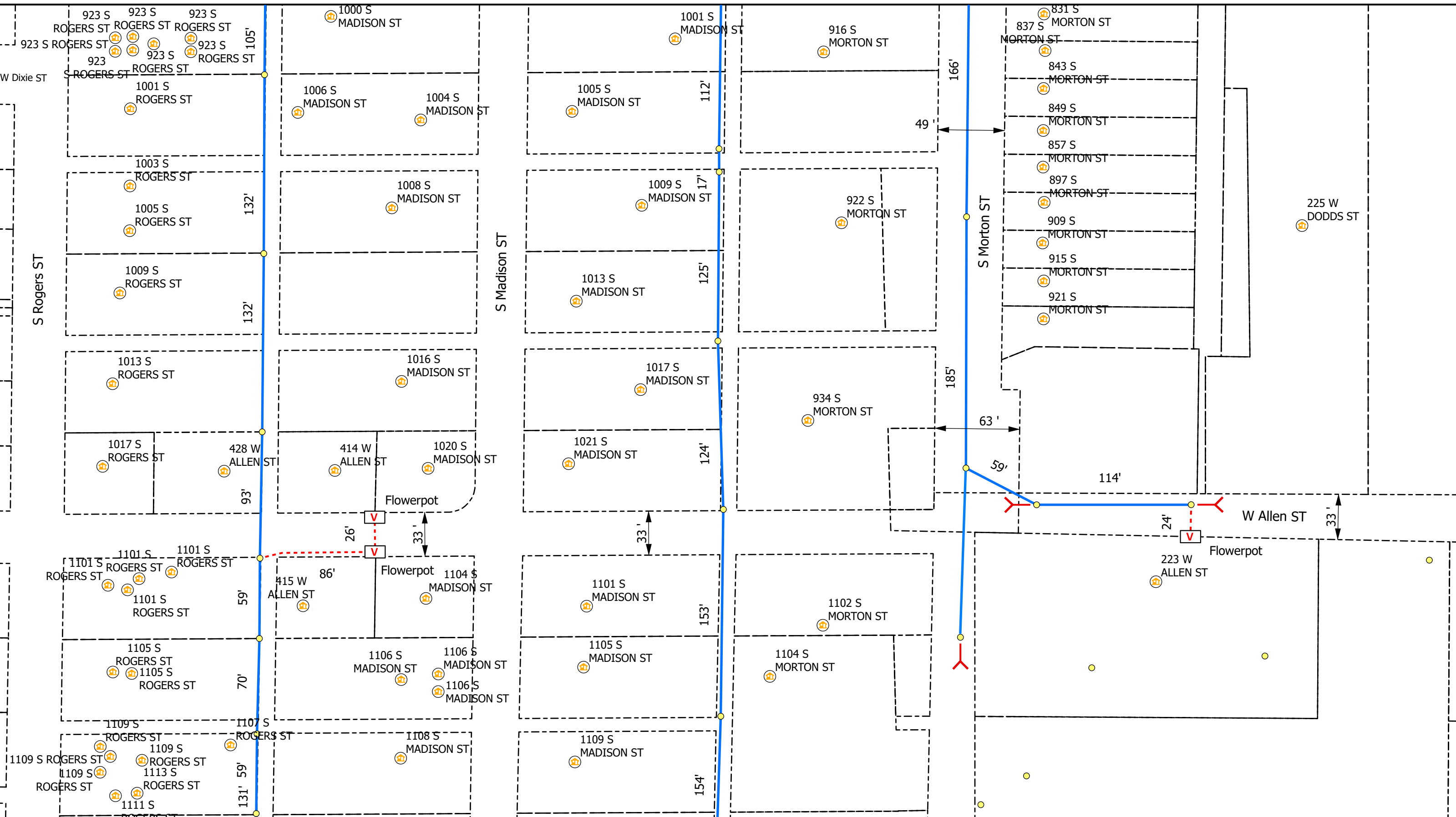
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION

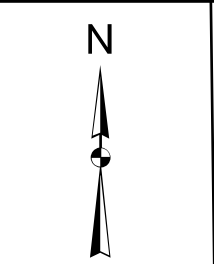




Legend

- Poles
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- Overhead Strand
- Conduit
- ⊕ Risers
- Ⓜ Address
- Y Anchor
- ⬅ Sidewalk
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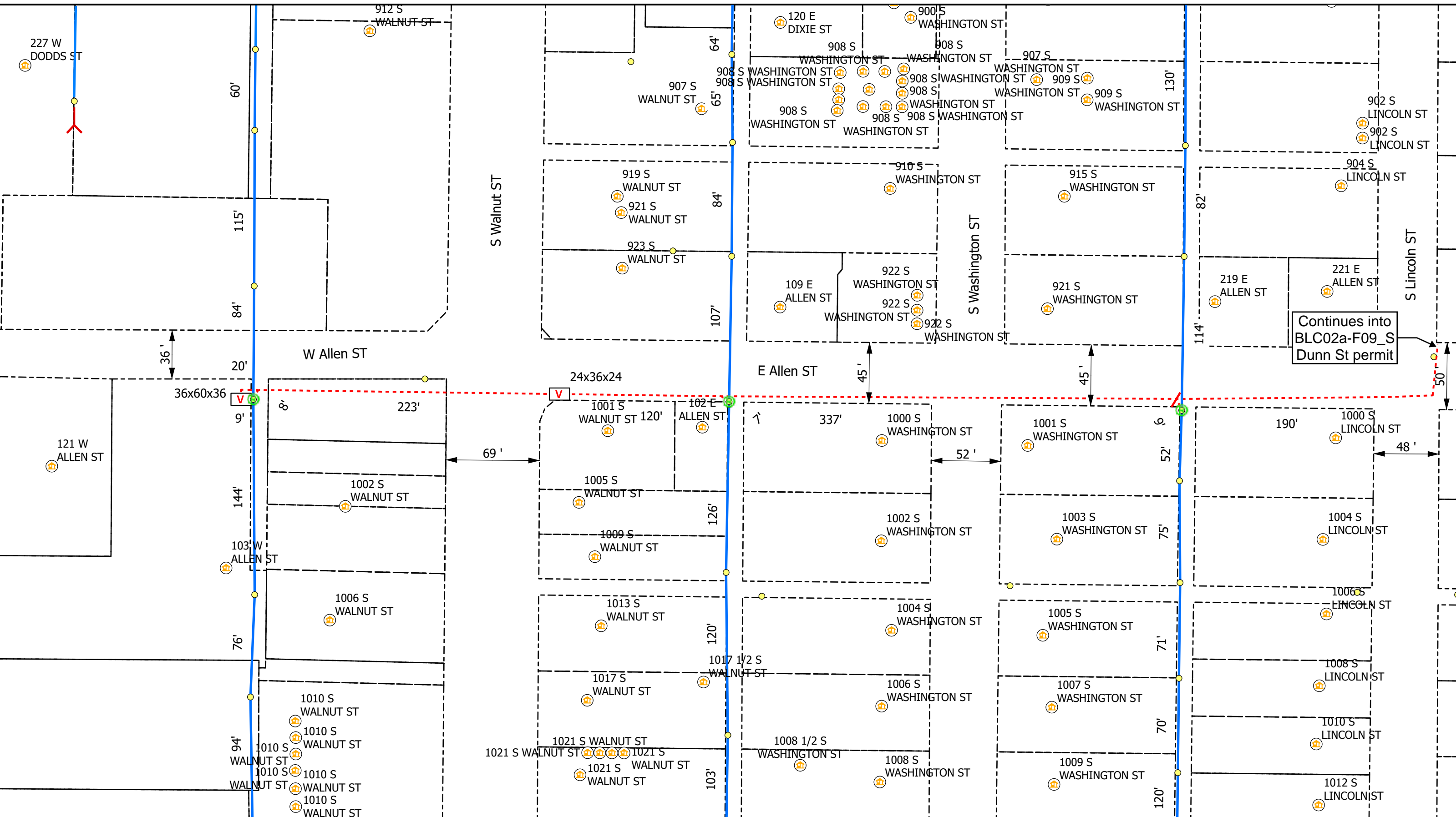
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION

Print 8 of 11

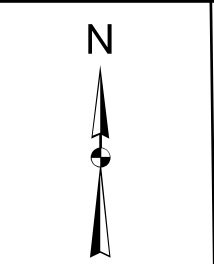


0 20 40 80 Feet

Legend

- Poles
- V Vaults
- Overhead Strand
- - - Conduit
- R Risers
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- Y Anchor
- └─┘ Sidewalk
- Bloomington_Parcels
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All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION

Print 9 of 11



- Legend**
- Poles
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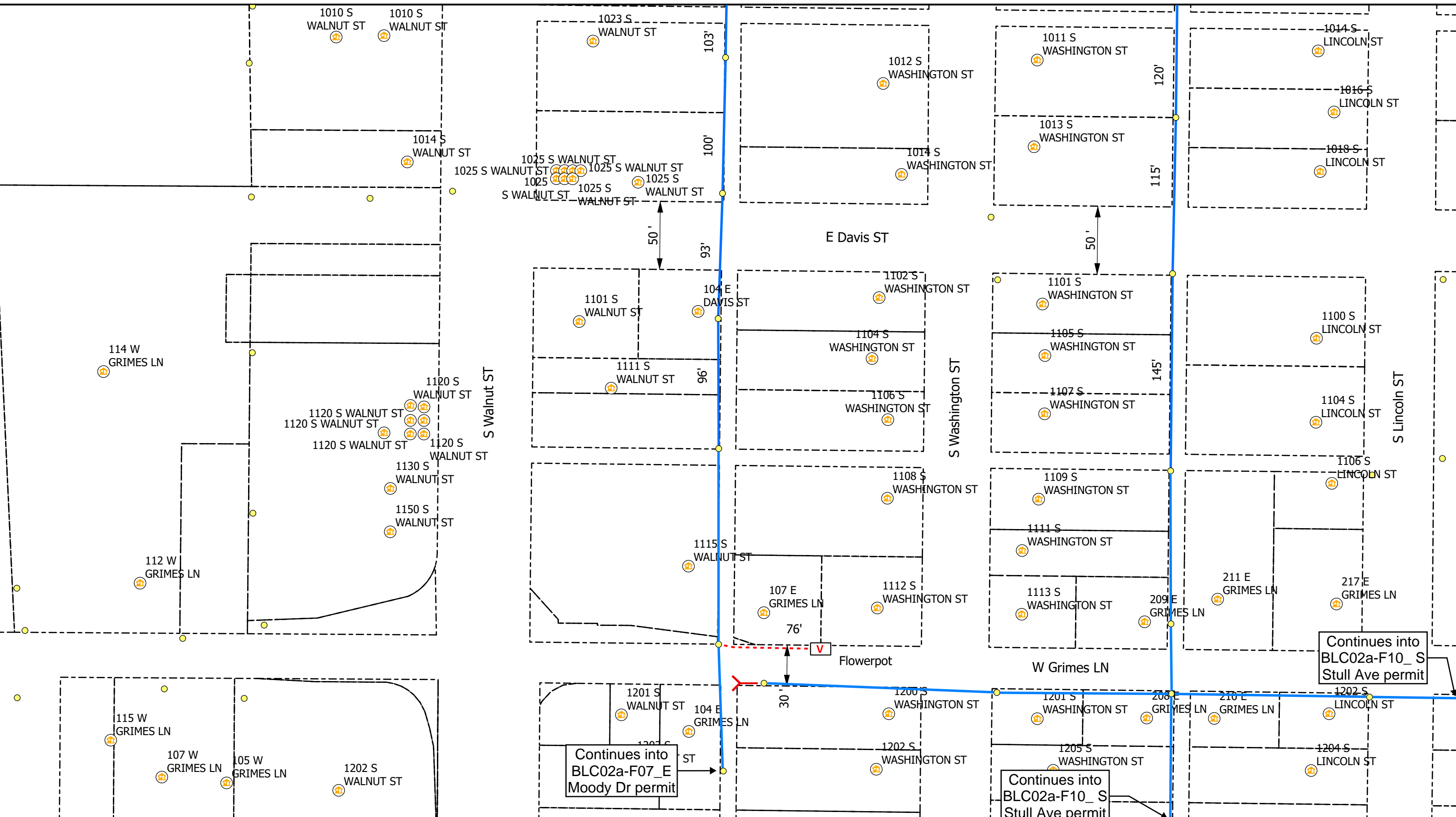
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

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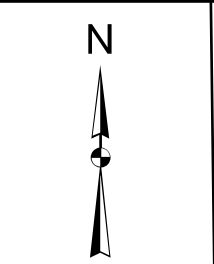


0 20 40 80 Feet

Legend

- Poles
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- Ⓜ Address
- Ⓨ Anchor
- Ⓜ Sidewalk
- Ⓜ Bloomington_Parcels
- Ⓜ Grids
- Ⓜ Vaults
- Overhead Strand
- - - Conduit

All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION

Print 11 of 11

Carlton® PV-Mold® Nonmetallic Pole Riser System

Carlton PV-Mold is a nonmetallic pole riser system designed to protect communications power cable installed on poles.

Features:

- Meets or exceeds requirements outlined in the National Electric Safety Code (NESC).
- Designed in accordance with NEMA TC-19 specifications.
- Ultraviolet, cold temperature and corrosive atmosphere resistant.
- Schedule 40 wall meets Schedule 80 PVC conduit impact requirements per NEMA TC-19.
- No grounding required.
- Belled end fits over each added section or conduit.
- Flame retardant.
- Requires no maintenance.
- PV-Mold acts as an insulator against electrical shock.
- Interchangeable parts and accessories to match the needs of specific requirements.

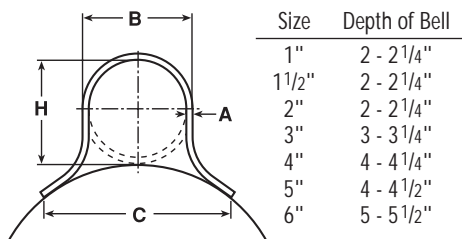


Steel U-Guard requires grounding strapping and does not have belled ends.



PV-Mold has belled ends, flanged design and does not require grounding.

Flanged Overall Length 10 Feet, Including Bell

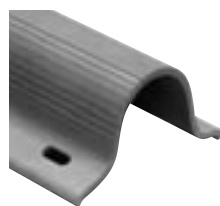


Slots are 1/2" from side to side, and allow for expansion and contraction.

Slot Dimensions: for sizes 2" through 6" are 5/16" wide, 3/4" long.

Slot Dimensions: for 1" and 1 1/2" are 3/16" wide, 3/4" long.

Slot Spacing: 18" from center, beginning 6" from end.



Standard Duty

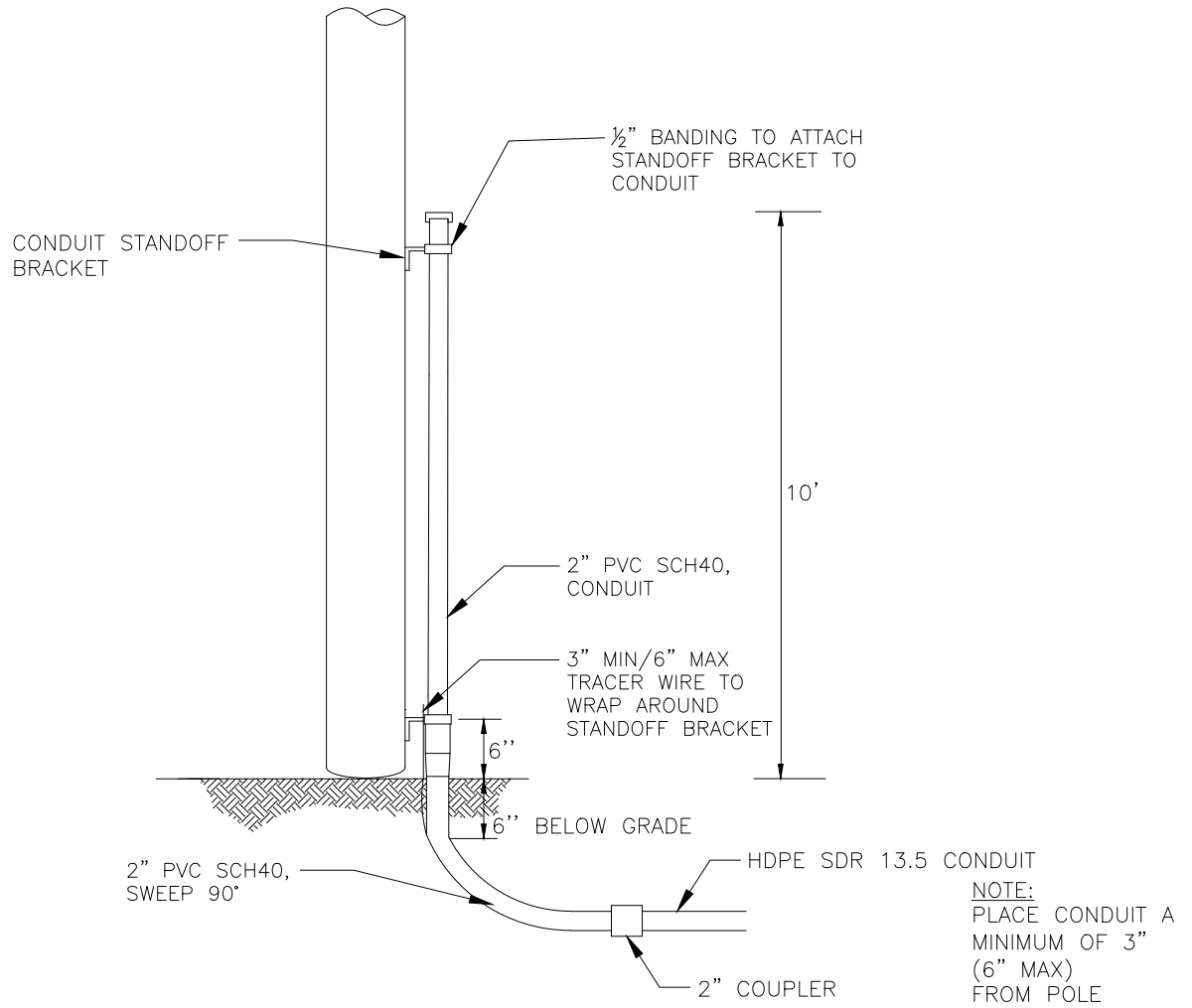
Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)	Dimensions				Actual Impact @ 0°C 20 Pound Top
				A	B	C	H	
59208N	1"	294	1059	0.100"	1 5/8"	2 3/8"	1 5/8"	40 Ft.-Lbs.
59211N	2"	136	726	0.100"	2 3/8"	4 1/2"	2 3/8"	100 Ft.-Lbs.
59211X (5' length)	2"	136	363	0.100"	2 3/8"	4 1/2"	2 3/8"	100 Ft.-Lbs.
59213N	3"	66	761	0.150"	3 1/2"	6"	3 1/2"	110 Ft.-Lbs.
59213X (5' length)	3"	66	381	0.150"	3 1/2"	6"	3 1/2"	100 Ft.-Lbs.
59215N	4"	65	910	0.150"	4 1/2"	6 1/2"	4 1/2"	110 Ft.-Lbs.
59216N	5"	30	515	0.150"	5 1/2"	7 1/2"	5 1/2"	110 Ft.-Lbs.

Heavy Duty Schedule 40

59010N	1 1/2"	200	1142	0.145"	1 29/32"	3 1/2"	1 29/32"	100 Ft.-Lbs.
59011N	2"	136	1214	0.154"	2 3/8"	4 1/2"	2 3/8"	150 Ft.-Lbs.
59013N	3"	66	937	0.216"	3 1/2"	6"	3 9/32"	150 Ft.-Lbs.
59015N	4"	65	1621	0.237"	4 1/2"	6 1/2"	4 1/2"	260 Ft.-Lbs.
59015X (5' length)	4"	65	707	0.237"	4 1/2"	6 1/2"	4 1/2"	260 Ft.-Lbs.
59016N	5"	30	870	0.258"	5 1/2"	7 1/2"	5 1/2"	260 Ft.-Lbs.
59017N	6"	30	1160	0.280"	6 5/8"	8 3/4"	6 5/8"	260 Ft.-Lbs.

Extra Heavy Duty Schedule 80

59411N	2"	136	1549	0.218"	2 3/8"	4 1/2"	2 3/8"	300 Ft.-Lbs.
59413N	3"	66	1495	0.030"	3 1/2"	6"	3 1/2"	525 Ft.-Lbs.



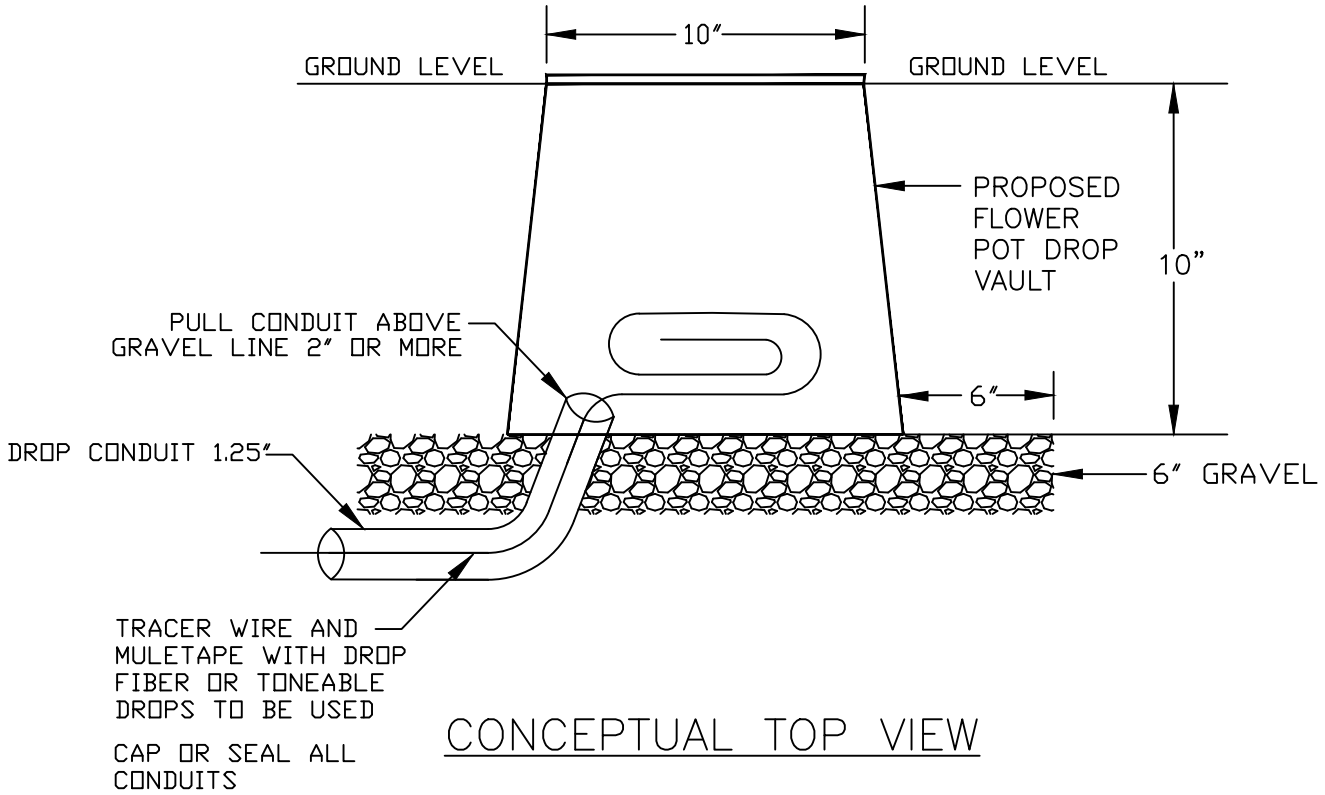
DESCRIPTION	QTY	MANUFACTURER (PREFERRED)	PART #
SCREW, LAG, 1/2" x 4-1/2"	10		
HDPE SDR 13.5 CONDUIT, VARIOUS SIZES	N/A		
2" PVC SCH40, RISER PIPE	1		
#12 TRACER WIRE	N/A		
2" PVC SCH40, SWEEP, 90 DEG	1		
CONDUIT STANDOFF BRACKET	VARIES		
CONDUIT STRAP KIT	VARIES		
2" COUPLER	1		



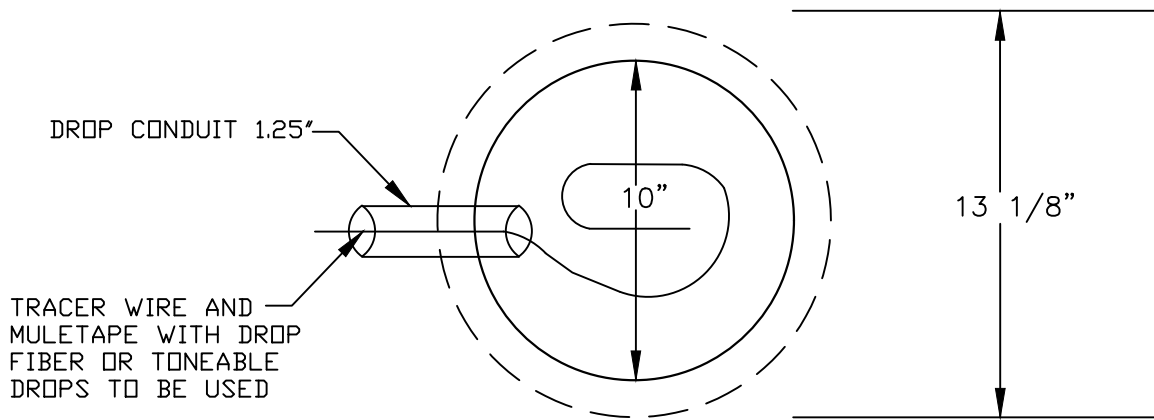
TYPICAL RISER
CONDUIT
WOOD POLE

(R2-W)

CONCEPTUAL SIDE VIEW



CONCEPTUAL TOP VIEW

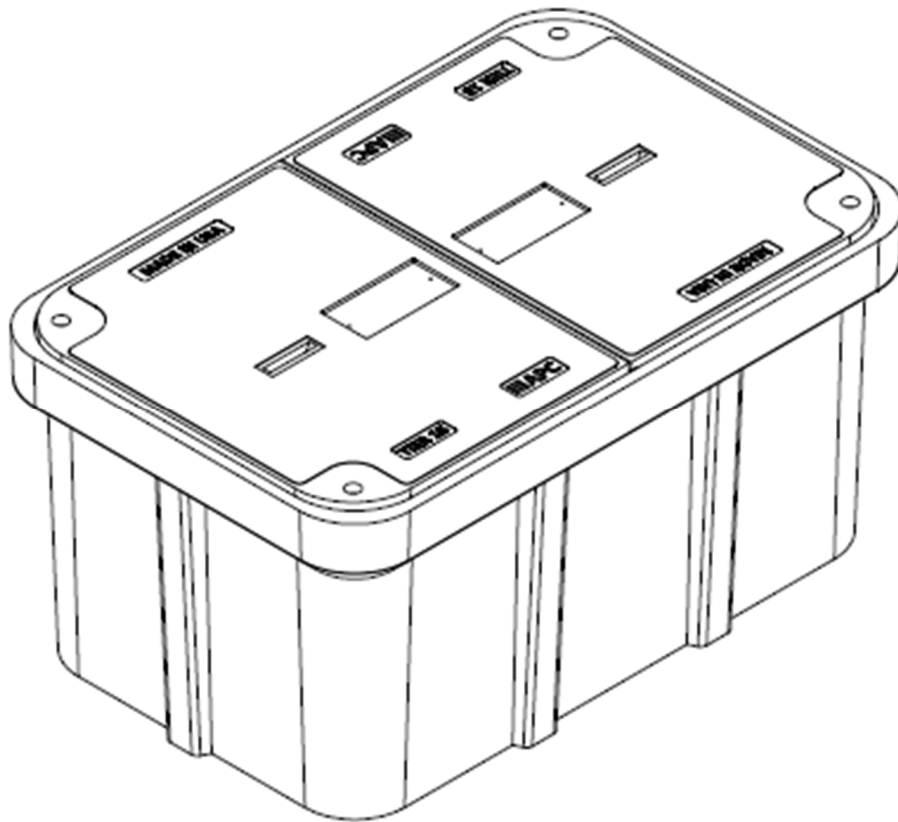


FLOWER POT

30"x48" PC UNIT, 2PC TIER 15/22
 18", 24", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit – TIER 15	30"x48"x18"	Tier 15	P304818HU15...	460 lbs.
PC Unit – TIER 22	30"x48"x18"	Tier 22	P304818HU22...	525 lbs.
PC Unit – TIER 15	30"x48"x24"	Tier 15	P304824HU15...	510 lbs.
PC Unit – TIER 22	30"x48"x24"	Tier 22	P304824HU22...	575 lbs.
PC Unit – TIER 15	30"x48"x36"	Tier 15	P304836HU15...	615 lbs.
PC Unit – TIER 22	30"x48"x36"	Tier 22	P304836HU22...	680 lbs.

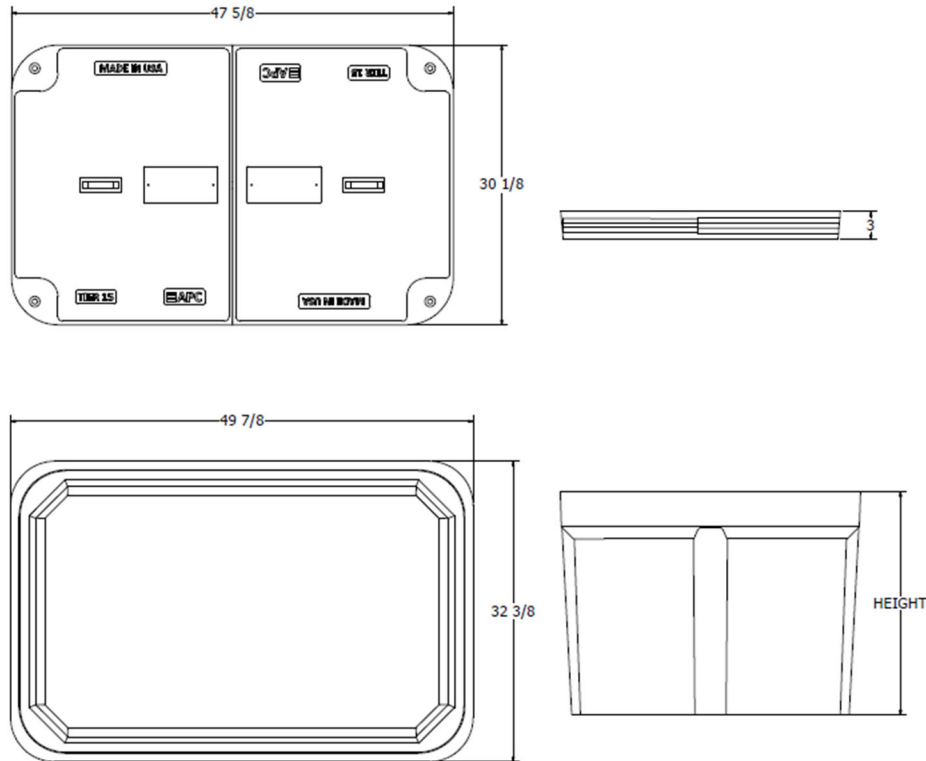


30"x48" PC UNIT, 2PC TIER 15/22

18", 24", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	30"x48"x18"	Tier 22	P304818B22	185 lbs.
Replacement Box	30"x48"x24"	Tier 22	P304824B22	235 lbs.
Replacement Box	30"x48"x36"	Tier 22	P304836B22	340 lbs.
Replacement Lids - T15	30"x48" (half)	Tier 15	Various	150 lbs.
Replacement Lids - T22	30"x48" (half)	Tier 22	Various	170 lbs.

Bolt options



Machine Thread



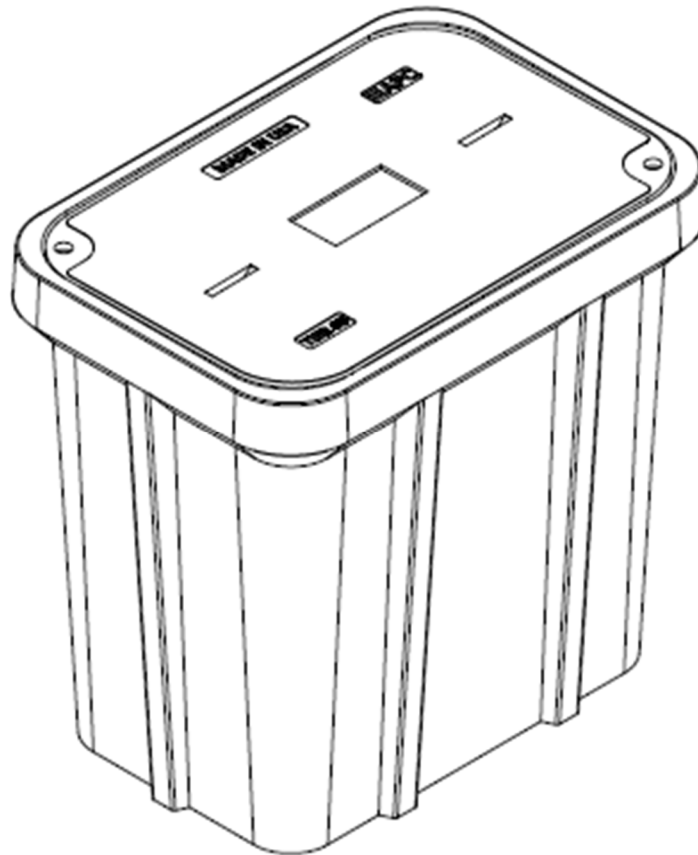
Auger Thread



24"x36" PC UNIT, TIER 15/22
 18", 24", 30", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit – TIER 15	24x36"x18"	Tier 15	P243618U15...	335 lbs.
PC Unit – TIER 22	24x36"x18"	Tier 22	P243618U22...	355 lbs.
PC Unit – TIER 15	24x36"x24"	Tier 15	P243624U15...	365 lbs.
PC Unit – TIER 22	24x36"x24"	Tier 22	P243624U22...	385 lbs.
PC Unit – TIER 15	24x36"x30"	Tier 15	P243630U15...	395 lbs.
PC Unit – TIER 22	24x36"x30"	Tier 22	P243630U22...	415 lbs.
PC Unit – TIER 15	24x36"x36"	Tier 15	P243636U15...	425 lbs.
PC Unit – TIER 22	24x36"x36"	Tier 22	P243636U22...	445 lbs.

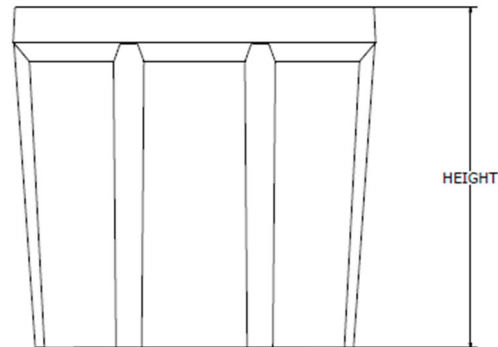
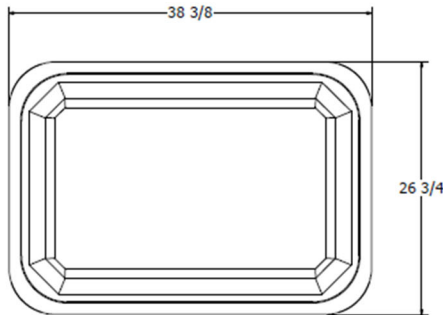
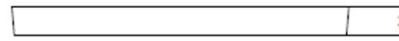
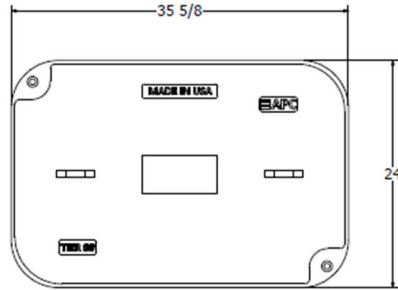


24"x36" PC UNIT, TIER 15/22

18", 24", 30", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	24"x36"x18"	Tier 22	P243618B22	165 lbs.
Replacement Box	24"x36"x24"	Tier 22	P243624B22	195 lbs.
Replacement Box	24"x36"x30"	Tier 22	P243630B22	225 lbs.
Replacement Box	24"x36"x36"	Tier 22	P243636B22	255 lbs.
Replacement Lids - T15	24"x36"	Tier 15	Various	170 lbs.
Replacement Lids - T22	24"x36"	Tier 22	Various	190 lbs.

Bolt options

Hex Head



Machine Thread



Penta Head



Auger Thread

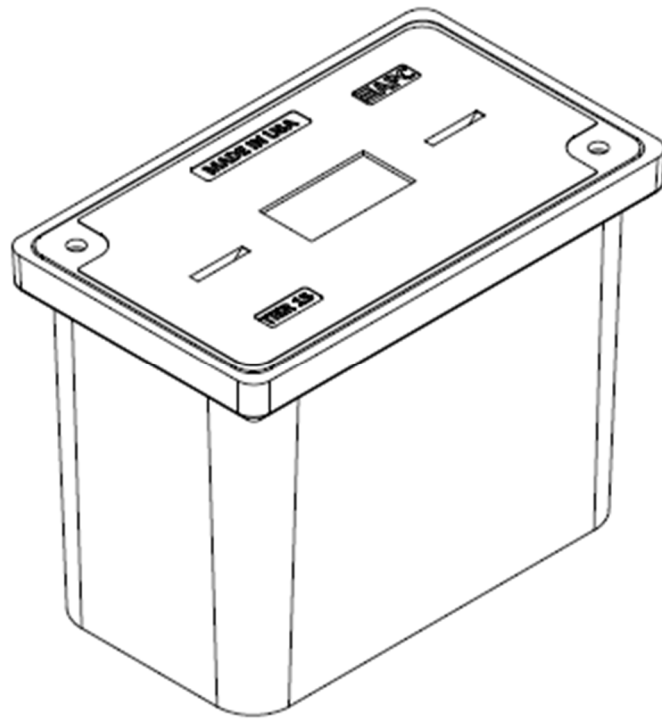


17"x30" PC UNIT, TIER 15/22

12", 18", 24", and 30" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit – TIER 15	17"x30"x12"	Tier 15	P173012U15...	138 lbs.
PC Unit – TIER 22	17"x30"x12"	Tier 22	P173012U22...	147 lbs.
PC Unit – TIER 15	17"x30"x18"	Tier 15	P173018U15...	172 lbs.
PC Unit – TIER 22	17"x30"x18"	Tier 22	P173018U22...	181 lbs.
PC Unit – TIER 15	17"x30"x24"	Tier 15	P173024U15...	192 lbs.
PC Unit – TIER 22	17"x30"x24"	Tier 22	P173024U22...	201 lbs.
PC Unit – TIER 15	17"x30"x30"	Tier 15	P173030U15...	217 lbs.
PC Unit – TIER 22	17"x30"x30"	Tier 22	P173030U22...	226 lbs.

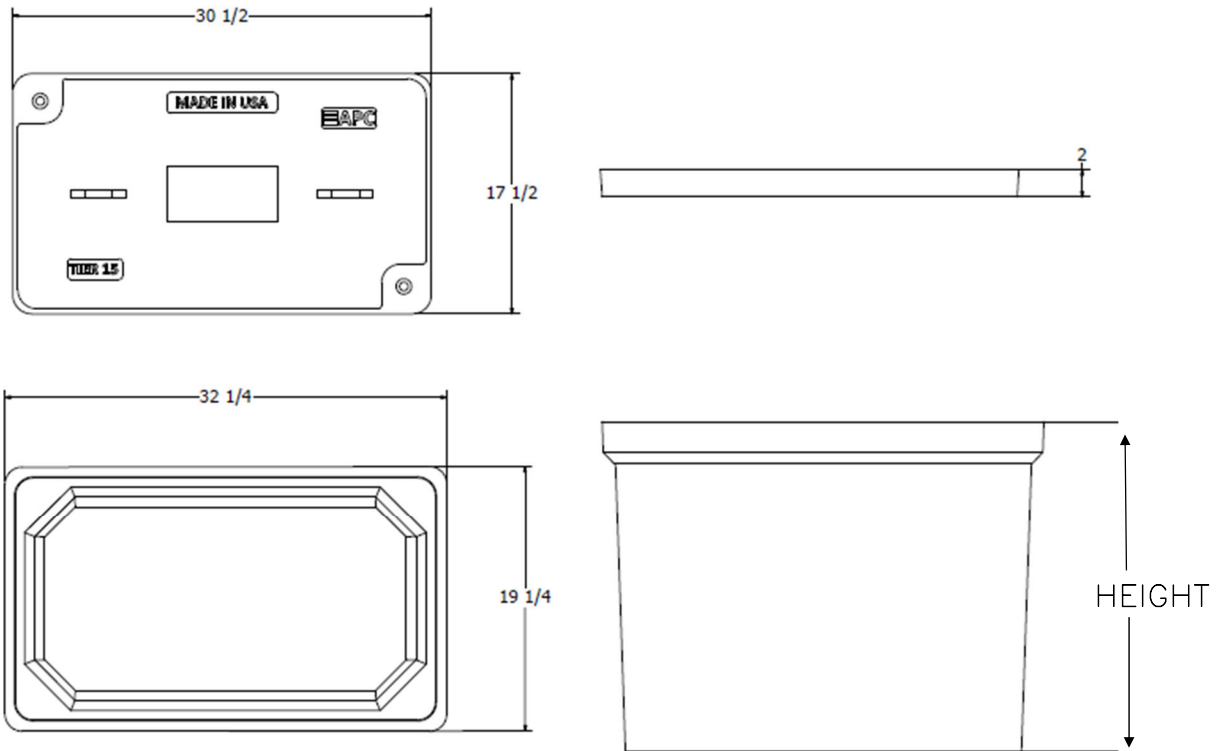


17"x30" PC UNIT, TIER 15/22

12", 18", 24", and 30" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	17"x30"X12"	Tier 22	P173012B22	66 lbs.
Replacement Box	17"x30"X18"	Tier 22	P173018B22	100 lbs.
Replacement Box	17"x30"X24"	Tier 22	P173024B22	120 lbs.
Replacement Box	17"x30"X30"	Tier 22	P173030B22	145 lbs.
Replacement Lids – T15	17"x30"	Tier 15	Various	72 lbs.
Replacement Lids – T22	17"x30"	Tier 22	Various	81 lbs.

Bolt options



Machine Thread



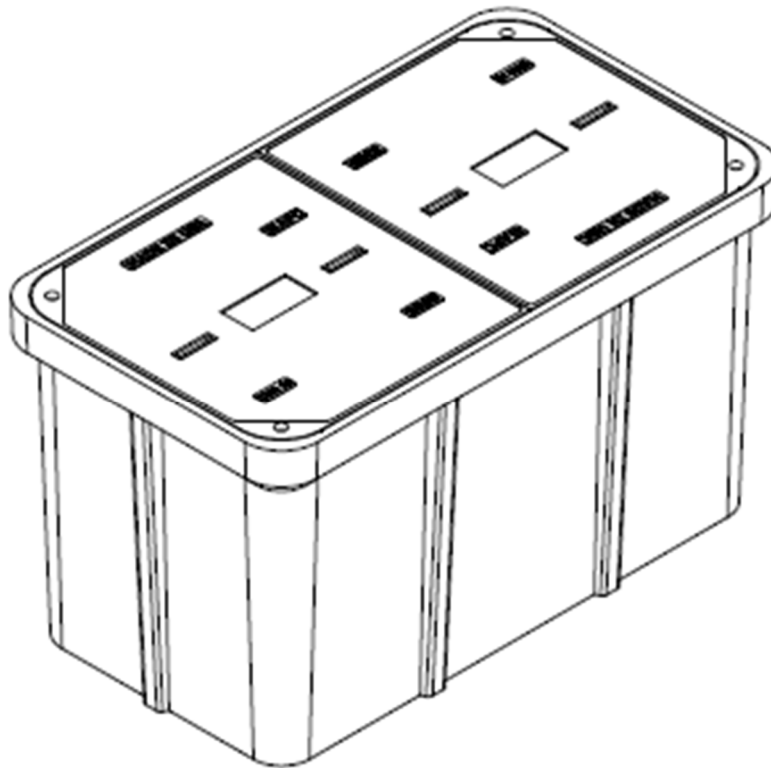
Auger Thread



33"x60" PC UNIT, 2PC TIER 15/22
36" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit - TIER 15	33"x60"x36"	Tier 15	P336036U15...	930 lbs.
PC Unit - TIER 22	33"x60"x36"	Tier 22	P336036U22...	1030 lbs.

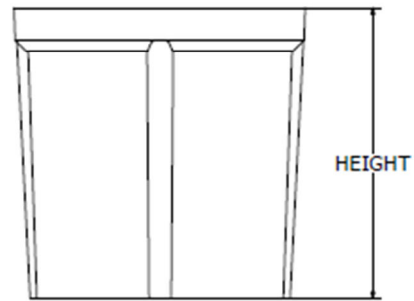
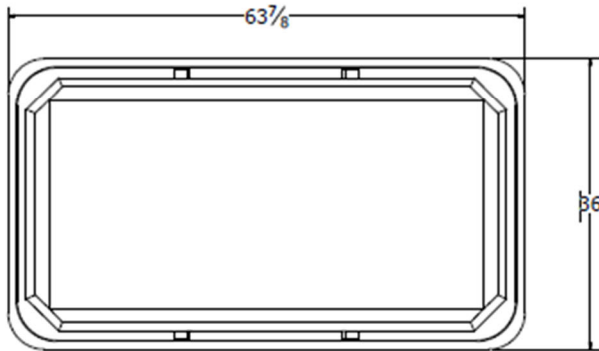
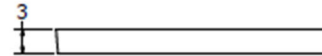
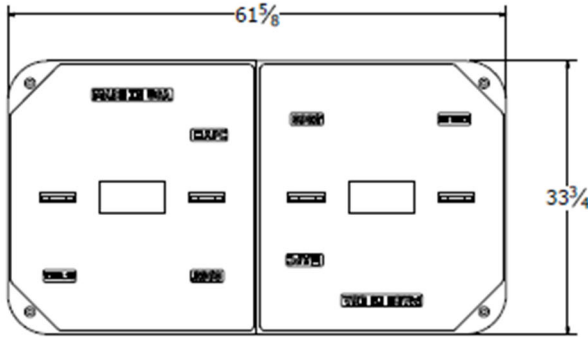


33"x60" PC UNIT, 2PC TIER 15/22

36" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	33"x60"x36"	Tier 22	P336036B22	530 lbs.
Replacement Lids - T15	33"x60" (half)	Tier 15	Various	200 lbs.
Replacement Lids - T22	33"x60" (half)	Tier 22	Various	250 lbs.

Bolt options

Hex Head



Machine Thread



Penta Head



Auger Thread



Speed (MPH) Prior To Road Work	SIGN SPACING, FT.		Must be Approved by an Engineer				
	Non-Divided Highways	Divided Highways	BUFFER SPACE, FT.	TAPER LENGTH, FT.	CHANNELIZING SPACING, FT.		
	Length	Shoulder (10 ft. Width)	Lane (12 ft. Width)	Through Taper	Through Buffer/Work Area		
0-35	200	200	250	70	245	35	50
40-45	350	500	360	150	540	40	80
50-55	500	1000	495	185	660	50	100
60-70	SA-1000, SB-1500, SC-2640		730	235	840	60	120
Urban Low Speed - 100 FT							

APPROVED/ACCEPTED BY:
ENGINEER, OWNER, or PRIME CONTRACTOR
 Check for Notice to Proceed.

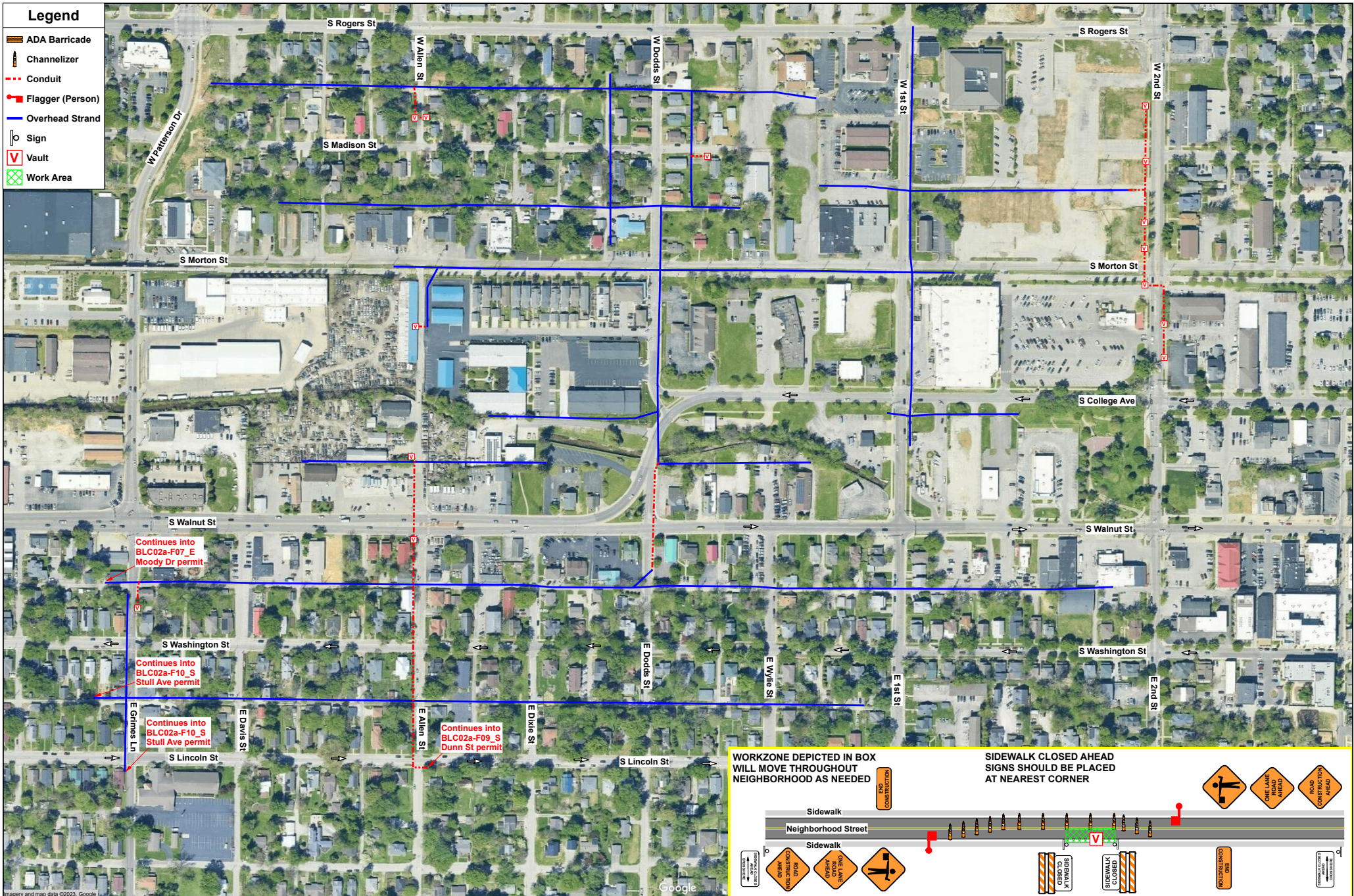
Signature: _____

Company: _____



Date: 11/20/2023 Project: BLC02a-F08_E Allen St TCP :
Traffic Control Suggestion For: ATLANTIC ENGINEERING (AEG) :
By: Road Runner Safety Services, Inc. : Nathan

Comments:
Drawing not to scale. Traffic control plan must be approved by an engineer. This is a suggestion only. Road Runners Safety Services, Inc. has no liability for this suggested traffic control plan. Actual placement and spacing of all traffic control devices will depend on field conditions and must conform to MUTCD standards.






CITY OF BLOOMINGTON RIGHT-OF-WAY USE PERMIT APPLICATION

401 N Morton Street, Suite 130
P.O. Box 100
Bloomington, IN 47402

Phone: (812) 349-3913
Fax: (812) 349-3520
Email: engineering@bloomington.in.gov

ROW EXCAVATION ROW USE

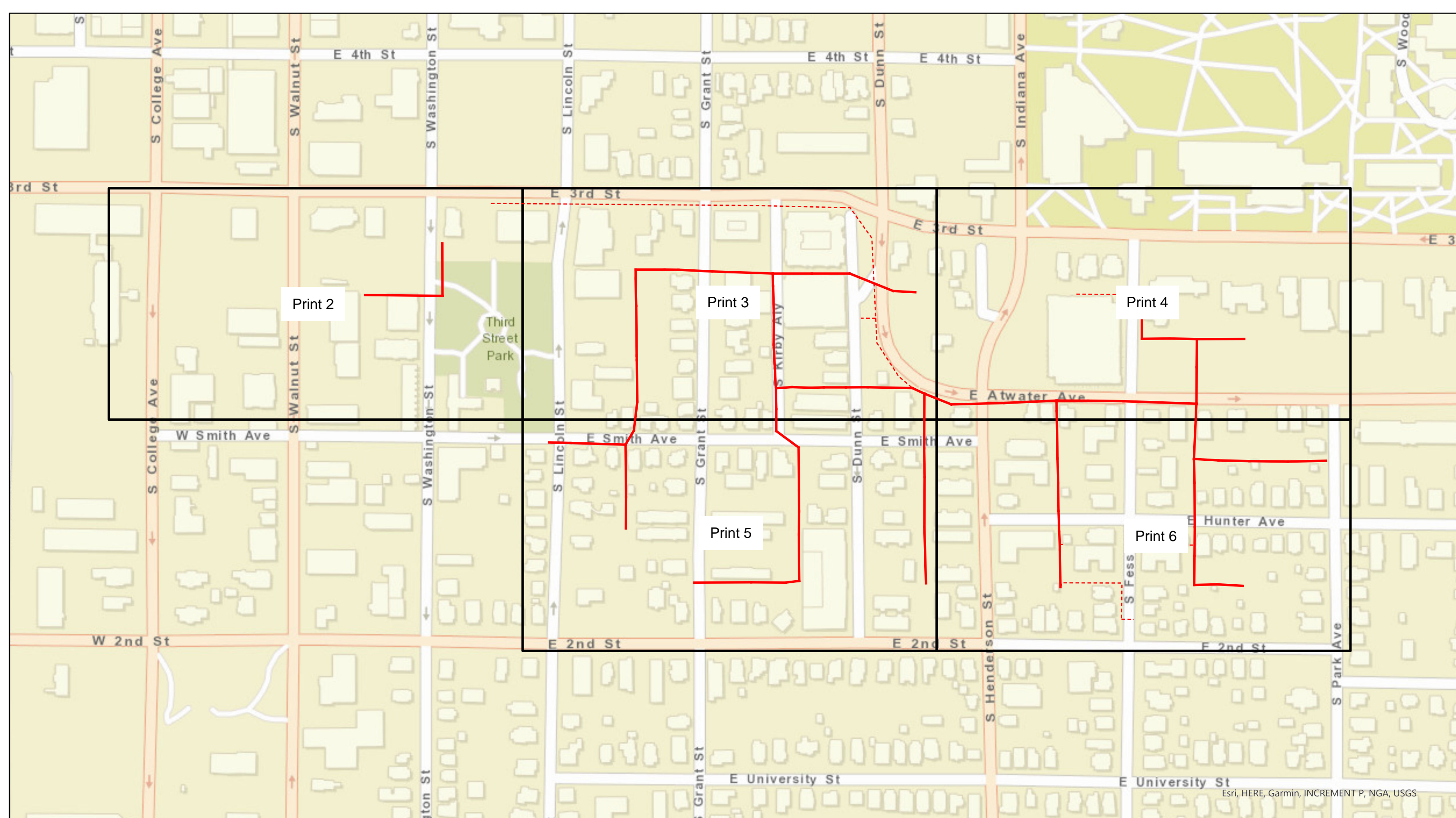
ADDRESS OF ROW ACTIVITY: BLN01b-F16_Kirby Aly

A. APPLICANT/AGENT INFORMATION: APPLICANT NAME: <u>Bret Simons</u> E-MAIL: <u>bret.simons@aeg.cc</u> COMPANY: <u>Atlantic Engineering Group</u> ADDRESS: <u>P.O. Box 349</u> CITY, STATE, ZIP: <u>Buford, GA 30515</u> 24-HR EMERGENCY CONTACT NAME: <u>(706)654-2298</u> 24-HR CONTACT PHONE #: _____ INSURANCE #*: <u>TB5-691-473497-082</u> COMPANY: <u>ACORD</u> BOND #*: <u>1160465</u> COMPANY: <u>LEXON</u> <small>*INSURANCE & BOND MUST BE ON FILE WITH THE CITY BEFORE PERMIT WILL BE ISSUED</small> **SUBCONTRACTOR INFORMATION** <small>(LIST ALL COMPANIES WORKING UNDER PRIMARY CONTRACTOR PERMIT)</small> COMPANY NAME: _____ B. WORK DESCRIPTION: <input type="checkbox"/> POD/DUMPSTER <input type="checkbox"/> CRANE <input type="checkbox"/> SCAFFOLDING <input checked="" type="checkbox"/> CONSTRUCTION USE* (EXPLAIN): <u>Excavation</u> <small>*EXCAVATION, LONG TERM USE FOR STORAGE OF MATERIAL/EQUIPMENT/WALKAROUND</small> C. RIGHT OF WAY TO BE USED/CLOSED: STREET NAME 1: <u>Kirby Aly</u> 1ST INTERSECTING STREET NAME: _____ 2ND INTERSECTING STREET NAME: _____ <input type="checkbox"/> ROAD CLOSURE <input type="checkbox"/> LANE CLOSURE 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> <input checked="" type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N **NON-METERED START DATE: <u>Dec 22nd</u> END DATE: _____ # OF DAYS*: <u>30</u> STREET NAME 2: _____ 1ST INTERSECTING STREET NAME: _____ 2ND INTERSECTING STREET NAME: _____ <input type="checkbox"/> ROAD CLOSURE <input type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> <input type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N **NON-METERED START DATE: _____ END DATE: _____ # OF DAYS*: _____ <small>*SIDEWALK CLOSURES FOR A PERIOD OR PERIODS TOTALING 24HRS OR MORE SHALL INSTALL A WALKAROUND UNLESS OTHERWISE APPROVED DURING REVIEW</small> STANDARD CLOSURE HOURS MON-FRI*: 9:00 AM - 3:00 PM & 6:00 PM - 9:00 PM STANDARD CLOSURE HOURS <input checked="" type="checkbox"/> *NON-STANDARD CLOSURE HOURS <input type="checkbox"/> REQUESTED CLOSURE HOURS: _____ AM - _____ PM <small>*non-standard hours may not be allowed near schools, on arterials, or other circumstances and are subject to approval during the permitting process BMC 14.09.040 allows work from 6 AM to 10 PM without violating the noise ordinance (7AM to 9PM for pneumatic hammers)</small>	D. TRAFFIC CONTROL DEVICES*: <input checked="" type="checkbox"/> CONES <input type="checkbox"/> ARROWBOARD <input type="checkbox"/> LIGHTED BARRELS <input checked="" type="checkbox"/> TYPE 3 BARRICADES <input checked="" type="checkbox"/> FLAGGERS <input type="checkbox"/> BPD OFFICER <small>*PROVIDING MUTCD COMPLIANT TEMPORARY TRAFFIC CONTROL DEVICES AND MAINTENANCE OF TRAFFIC (MOT) PLAN IS YOUR RESPONSIBILITY AND REQUIRED See page 3 for additional MOT resources; the graph paper can be used for your MOT site plan if needed or you can submit a separate sheet</small> E. METERED PARKING SPACES NEEDED: <input type="checkbox"/> Y <input type="checkbox"/> N <small>IT IS THE RESPONSIBILITY OF THE APPLICANT TO RESERVE PARKING METER(S) APPLICATION LOCATED: https://bloomington.in.gov/transportation/parking/moving OR CONTACT PARKING SERVICES WITH QUESTIONS AT (812)349-3436</small> F. IS THIS A <input type="checkbox"/> CBU* <input type="checkbox"/> COUNTY* <input type="checkbox"/> IU* <input type="checkbox"/> NP* PROJECT? PROJECT NAME: <u>BLN01b-F16 Kirby Aly</u> PROJECT #: <u>BLN01b-F16 Kirby Aly</u> PROJECT MGR.: <u>Patrick Brigman</u> PROJECT MGR. #: <u>215-847-8819</u> <small>*CBU = CITY OF BLOOMINGTON UTILITIES *COUNTY = MONROE COUNTY *IU = INDIANA UNIVERSITY *NP = NOT-FOR-PROFIT AGENCY</small> G. EXCAVATIONS: SQ FT OF PAVEMENT* EXCAVATIONS : <u>N/A</u> <small>*PAVEMENT INCLUDES: IN OR UNDER CONCRETE, OR ASPHALT INCLUDING CURBS</small> SQ FT OF NON-PAVEMENT* EXCAVATIONS: <u>29.08 Sq Ft</u> <small>*DIRT, GRASS, GRAVEL, LANDSCAPE AREA OR OTHER UNPAVED SURFACE</small> LINEAL FT OF BORE*: <u>2,395 Lineal Ft</u> <small>*BORE PITS SHALL BE CALCULATED AS SQ FT EXCAVATIONS</small> # OF POLE INSTALLATIONS/REMOVAL: <u>N/A</u> SQ FT OF SIDEWALK RECONSTRUCTION*: <u>N/A</u> <small>*CONCRETE OR ASPHALT SIDEWALK/PATH BEING IMPROVED/REPLACED</small> SQ FT OF SIDEWALK NEW CONSTRUCTION*: <u>N/A</u> <small>*CONCRETE OR ASPHALT SIDEWALK/PATH THAT IS NEW INFRASTRUCTURE</small> #RESIDENTIAL DRIVEWAY INSTALLATION: <u>N/A</u> <div style="text-align: center;">  <small>Know what's below. Call before you dig.</small> </div> TO SUBMIT A LOCATE REQUEST 24 HRS A DAY, 7 DAYS A WEEK CALL 811 OR 800-382-5544 CALL 2 WORKING DAYS BEFORE YOU DIG. ITS THE LAW.
H. INDEMNIFICATION AGREEMENT: The petitioner/applicant hereby agrees to hold harmless, defend and to indemnify the City of Bloomington from or against all claims, action, damages and expenses, including but not limited to reasonable attorney's fees or any alleged injury and/or death to any person or damage to any property arising, or alleged to have arisen out of any act of commission or omission on the part of the petitioner/applicant, his/her heirs, successors, or assigns regardless of whether such acts are the direct or indirect result of the public right-of-way use pursuant to this permit grant. I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT THE FOREGOING REPRESENTATIONS ARE TRUE. PRINT NAME: <u>Bret Simons</u> SIGNATURE: <u>Bret Simons</u> DATE: <u>11/21/2023</u>	

For Administration Use Only (applicable to CLOSURE approval)

Approved By: _____ BPW City Engineer Director Date: _____

Staff Representative: _____ Phone#: _____ Date: _____

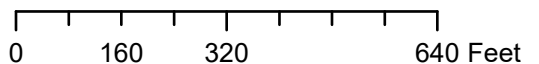


Esri, HERE, Garmin, INCREMENT P, NGA, USGS



Legend BLN01b-F16_Kirby Aly

- Overhead Strand
- - - Conduit
- Grids



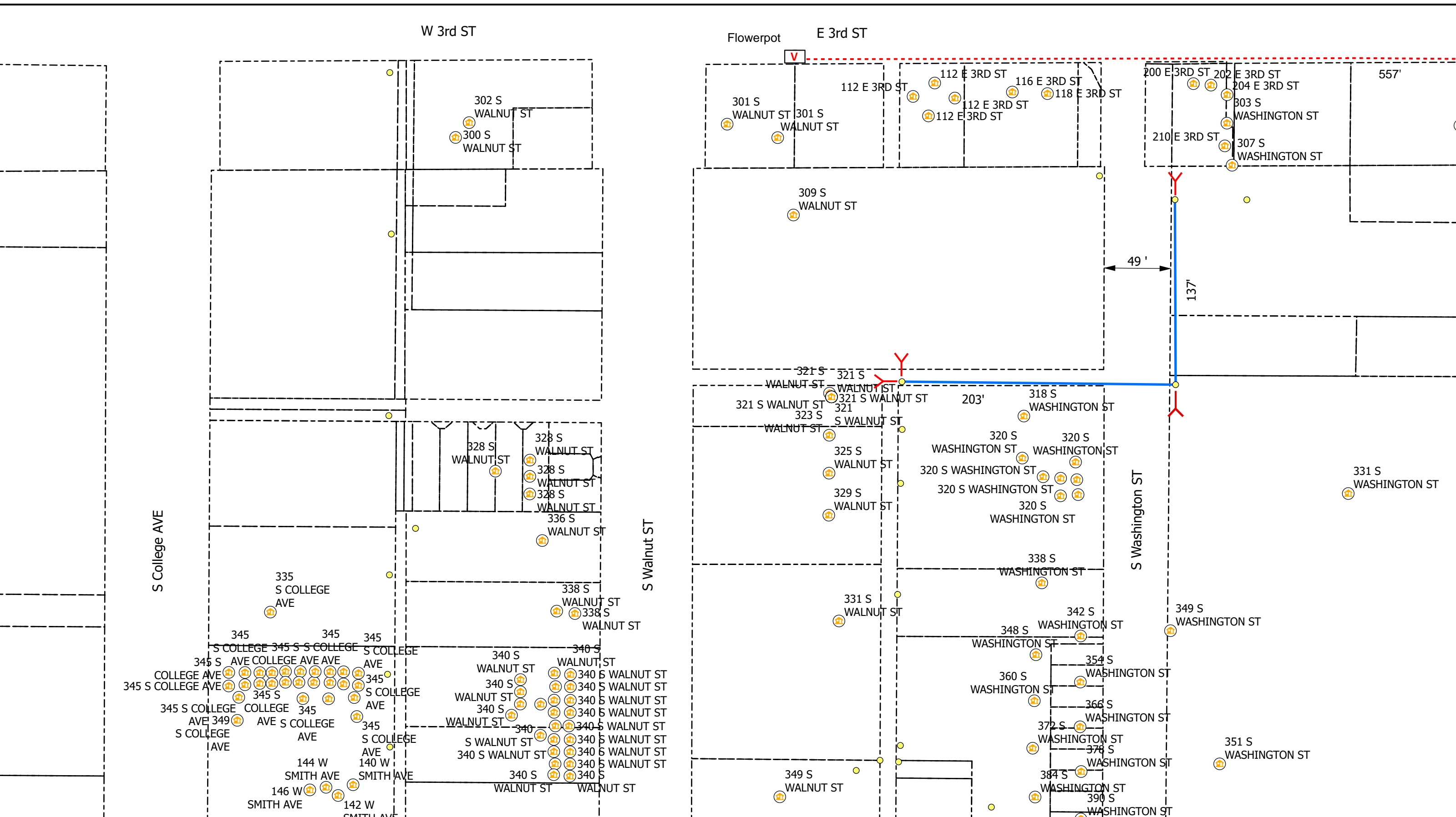
City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION



W 3rd ST

Flowerpot E 3rd ST



0 20 40 80 Feet

Legend

- Poles
- Ⓡ Risers
- Ⓜ Vaults
- Overhead Strand
- Conduit
- Ⓜ Address
- Y Anchor
- ↖ Sidewalk
- Bloomington_Parcels
- Grids

All Flowerpots 12" DIA

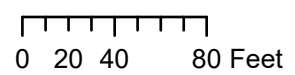
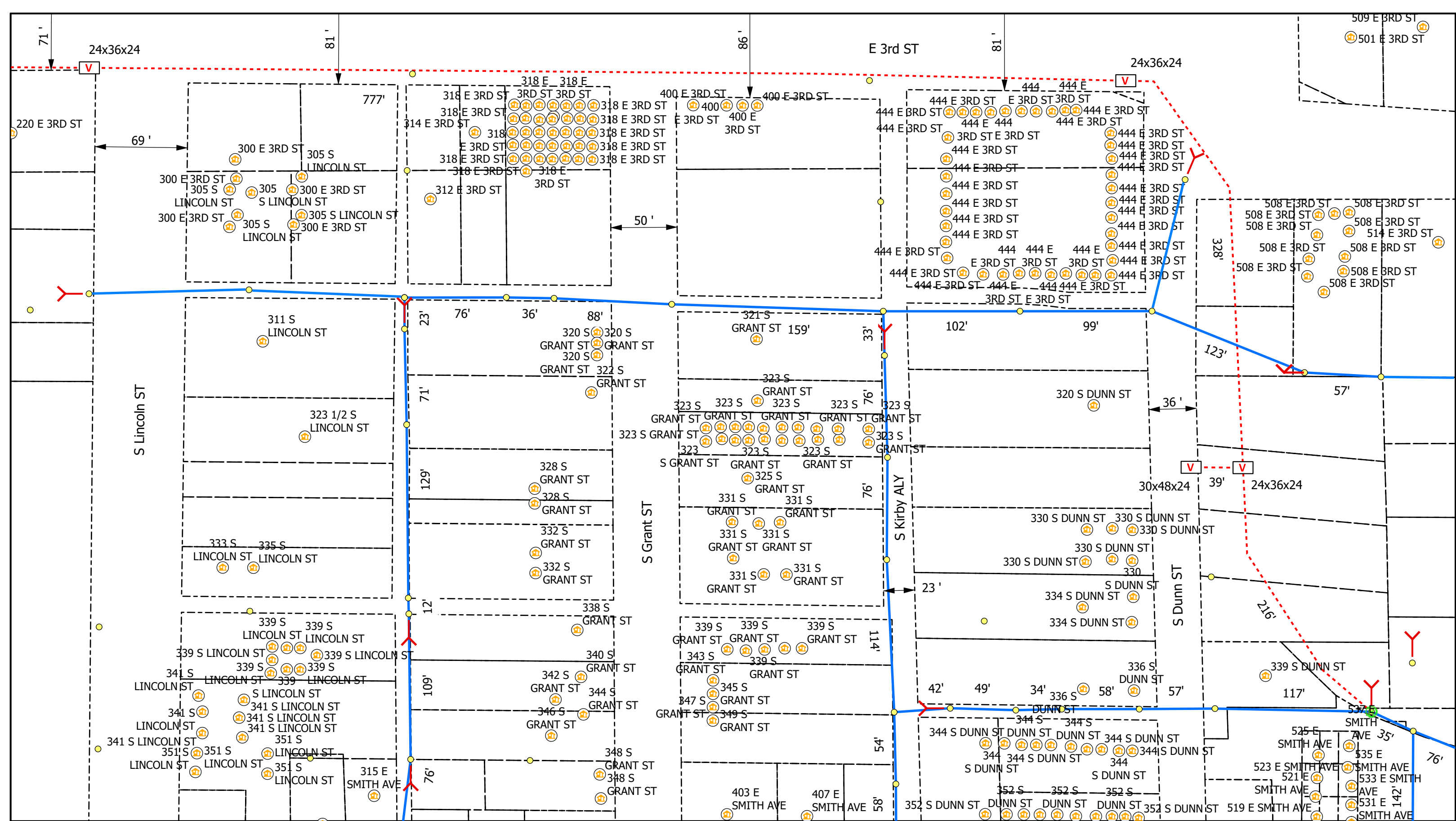
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City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION





Legend

- Poles
- Ⓡ Risers
- ⏏ Sidewalk
- V Vaults
- 🏠 Address
- Bloomington_Parcels
- Overhead Strand
- - - Conduit
- Y Anchor
- Grids

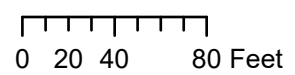
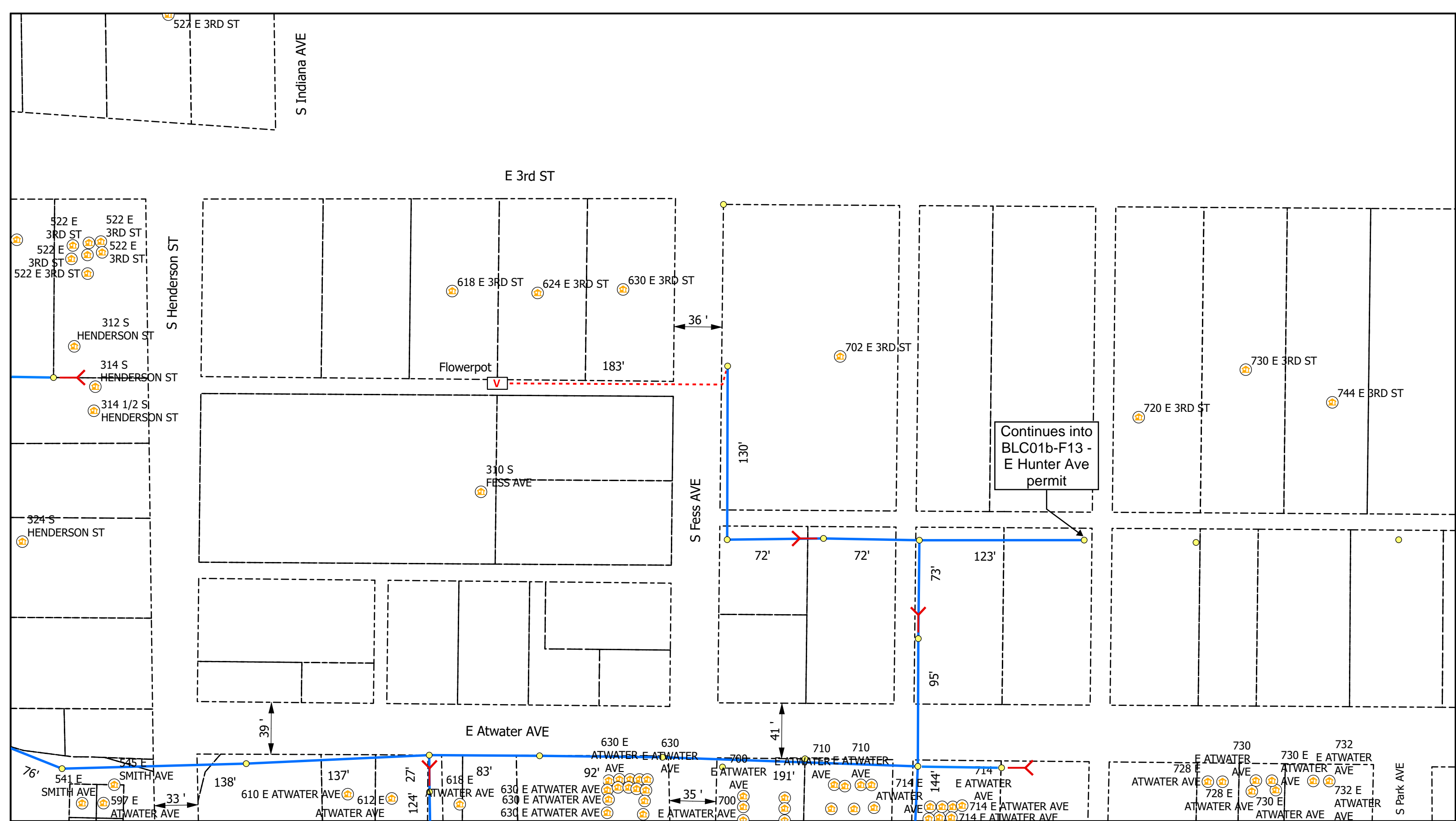
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION





Legend

- Poles
- V Vaults
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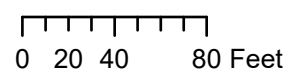
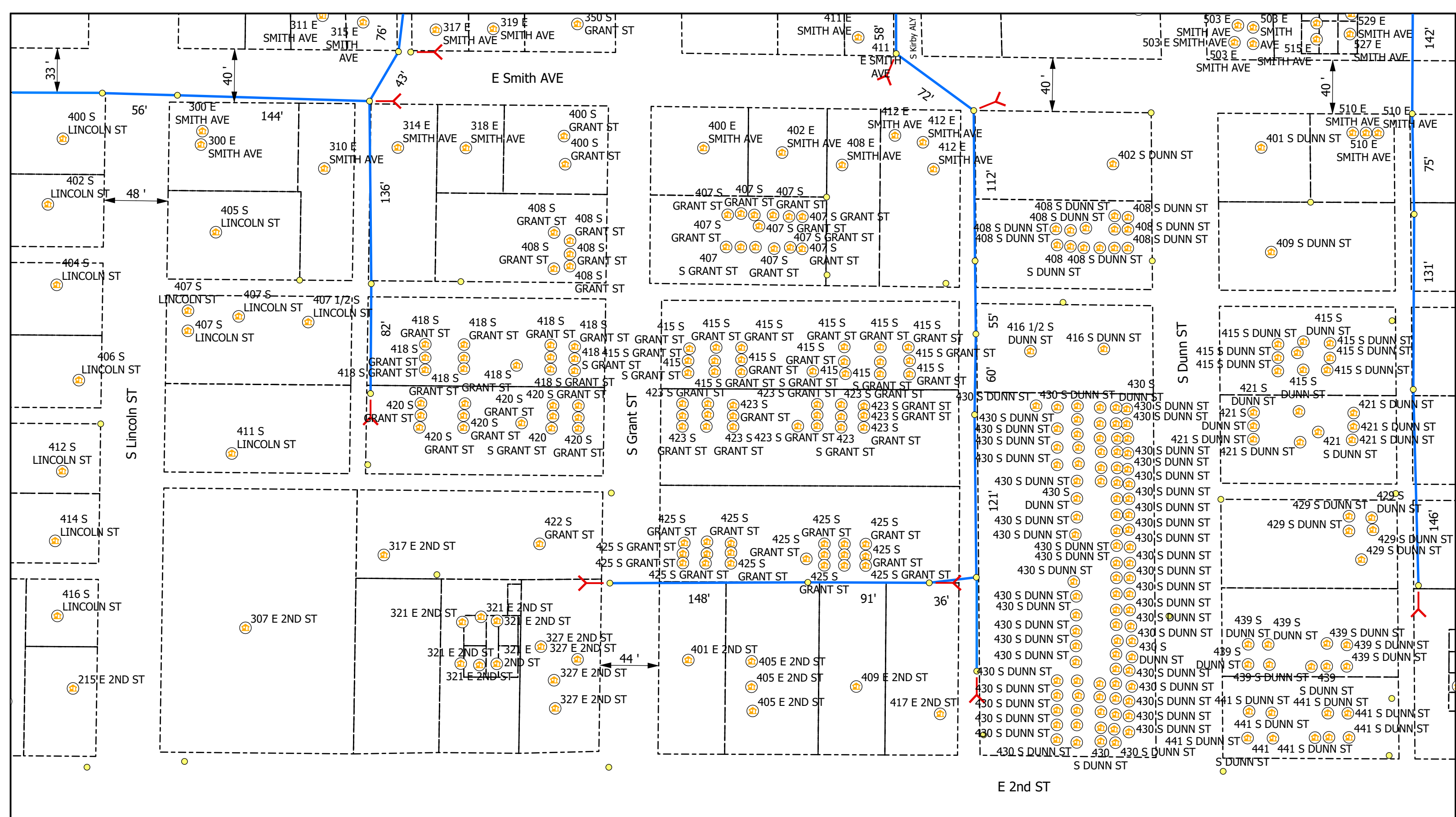
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION





Legend

- Poles
- V Vaults
- Overhead Strand
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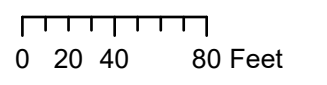
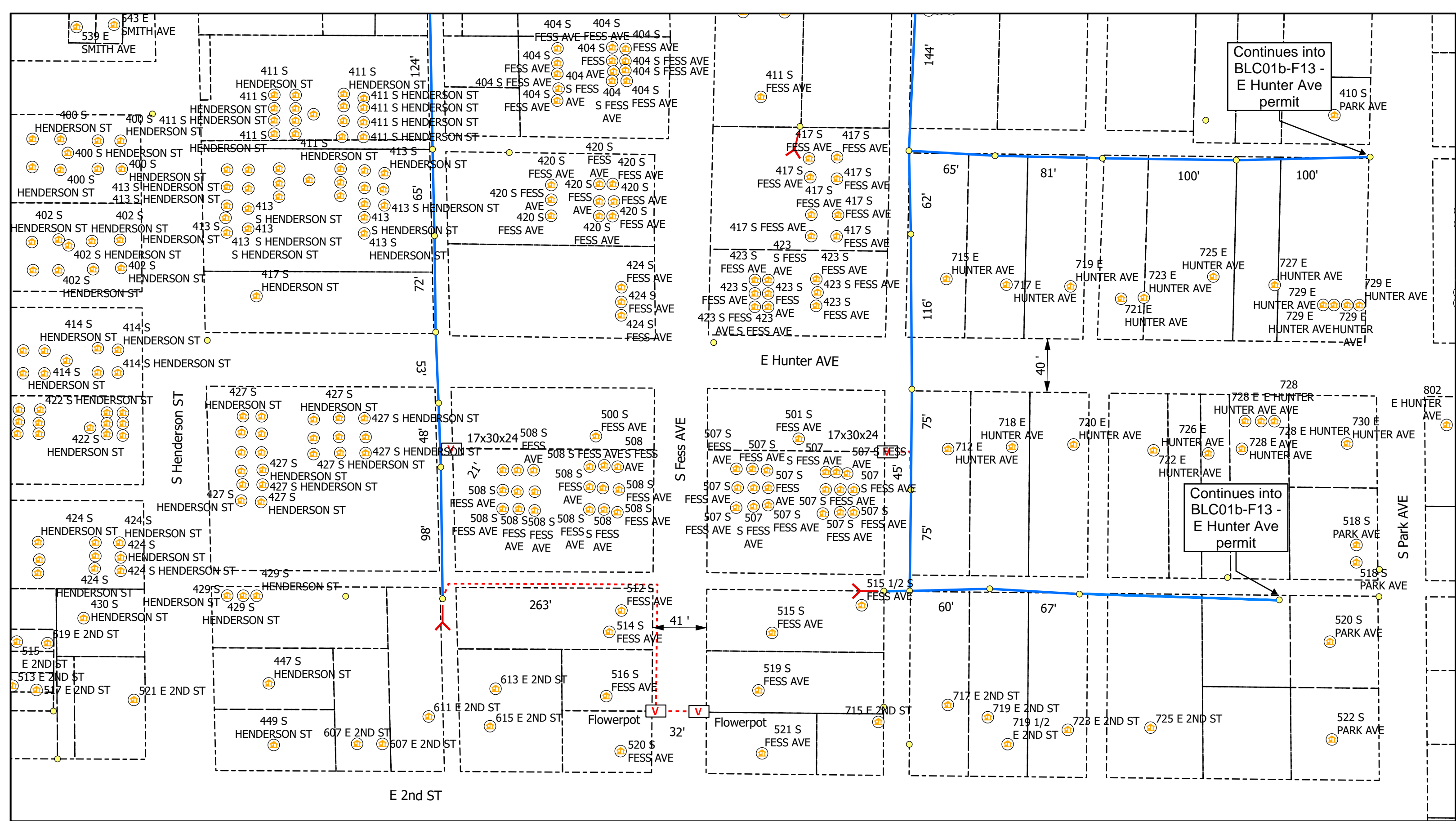
All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION





Legend

- Poles
- Risers
- Sidewalk
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- Address
- Anchor
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- Conduit
- Bloomington_Parcels
- Grids

All Flowerpots 12" DIA



City of Bloomington, IN Permit:
Design View

INI	BY	DATE	DESCRIPTION



Carlton® PV-Mold® Nonmetallic Pole Riser System

Carlton PV-Mold is a nonmetallic pole riser system designed to protect communications power cable installed on poles.

Features:

- Meets or exceeds requirements outlined in the National Electric Safety Code (NESC).
- Designed in accordance with NEMA TC-19 specifications.
- Ultraviolet, cold temperature and corrosive atmosphere resistant.
- Schedule 40 wall meets Schedule 80 PVC conduit impact requirements per NEMA TC-19.
- No grounding required.
- Belled end fits over each added section or conduit.
- Flame retardant.
- Requires no maintenance.
- PV-Mold acts as an insulator against electrical shock.
- Interchangeable parts and accessories to match the needs of specific requirements.

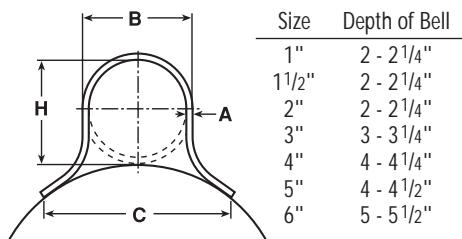


Steel U-Guard requires grounding strapping and does not have belled ends.



PV-Mold has belled ends, flanged design and does not require grounding.

Flanged Overall Length 10 Feet, Including Bell

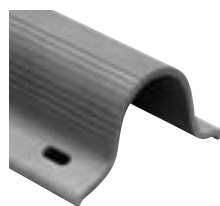


Slots are 1/2" from side to side, and allow for expansion and contraction.

Slot Dimensions: for sizes 2" through 6" are 5/16" wide, 3/4" long.

Slot Dimensions: for 1" and 1 1/2" are 3/16" wide, 3/4" long.

Slot Spacing: 18" from center, beginning 6" from end.



Standard Duty

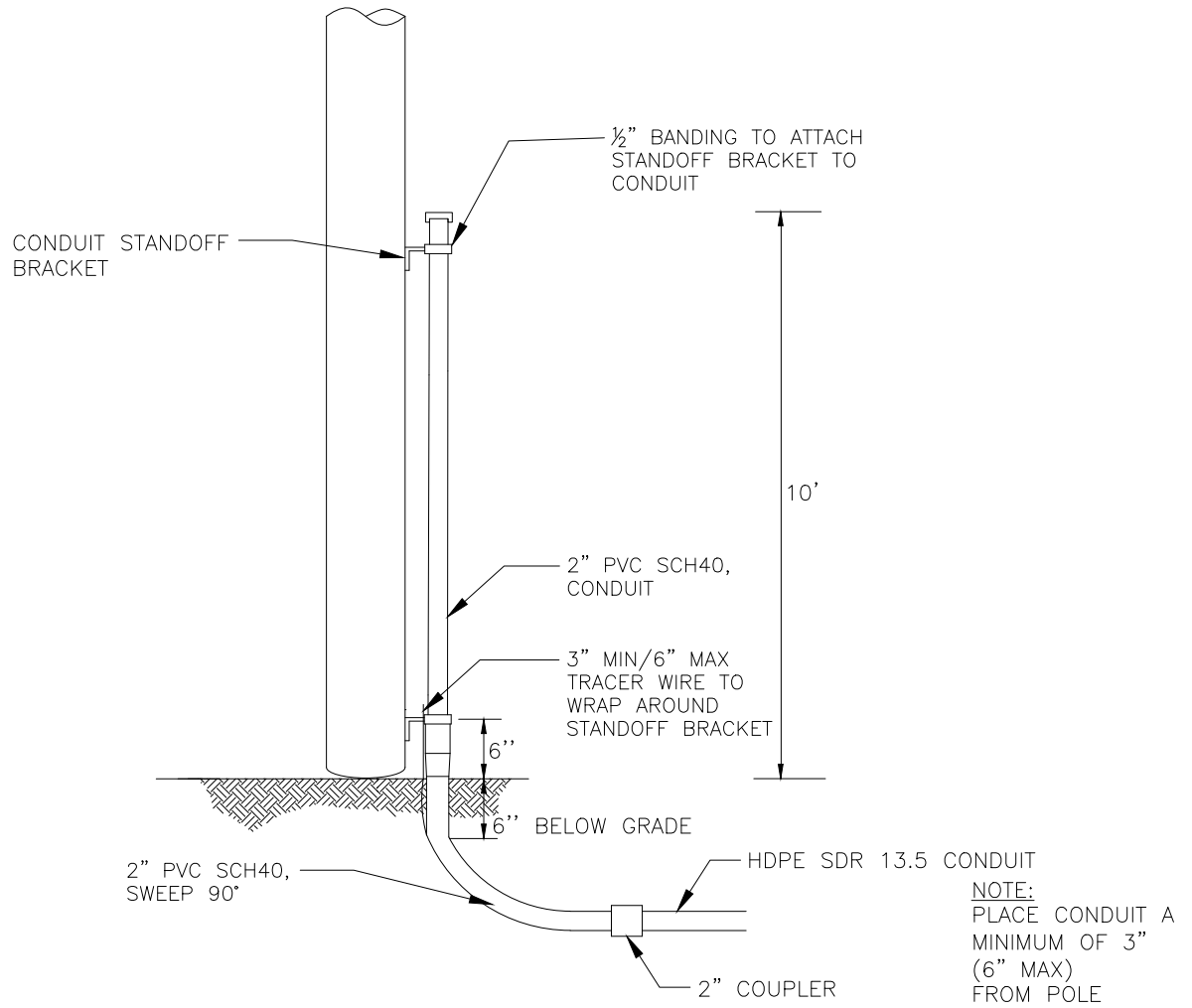
Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)	Dimensions				Actual Impact @ 0°C 20 Pound Top
				A	B	C	H	
59208N	1"	294	1059	0.100"	1 5/8"	2 3/8"	1 5/8"	40 Ft.-Lbs.
59211N	2"	136	726	0.100"	2 3/8"	4 1/2"	2 3/8"	100 Ft.-Lbs.
59211X (5' length)	2"	136	363	0.100"	2 3/8"	4 1/2"	2 3/8"	100 Ft.-Lbs.
59213N	3"	66	761	0.150"	3 1/2"	6"	3 1/2"	110 Ft.-Lbs.
59213X (5' length)	3"	66	381	0.150"	3 1/2"	6"	3 1/2"	100 Ft.-Lbs.
59215N	4"	65	910	0.150"	4 1/2"	6 1/2"	4 1/2"	110 Ft.-Lbs.
59216N	5"	30	515	0.150"	5 1/2"	7 1/2"	5 1/2"	110 Ft.-Lbs.

Heavy Duty Schedule 40

59010N	1 1/2"	200	1142	0.145"	1 29/32"	3 1/2"	1 29/32"	100 Ft.-Lbs.
59011N	2"	136	1214	0.154"	2 3/8"	4 1/2"	2 3/8"	150 Ft.-Lbs.
59013N	3"	66	937	0.216"	3 1/2"	6"	3 9/32"	150 Ft.-Lbs.
59015N	4"	65	1621	0.237"	4 1/2"	6 1/2"	4 1/2"	260 Ft.-Lbs.
59015X (5' length)	4"	65	707	0.237"	4 1/2"	6 1/2"	4 1/2"	260 Ft.-Lbs.
59016N	5"	30	870	0.258"	5 1/2"	7 1/2"	5 1/2"	260 Ft.-Lbs.
59017N	6"	30	1160	0.280"	6 5/8"	8 3/4"	6 5/8"	260 Ft.-Lbs.

Extra Heavy Duty Schedule 80

59411N	2"	136	1549	0.218"	2 3/8"	4 1/2"	2 3/8"	300 Ft.-Lbs.
59413N	3"	66	1495	0.030"	3 1/2"	6"	3 1/2"	525 Ft.-Lbs.



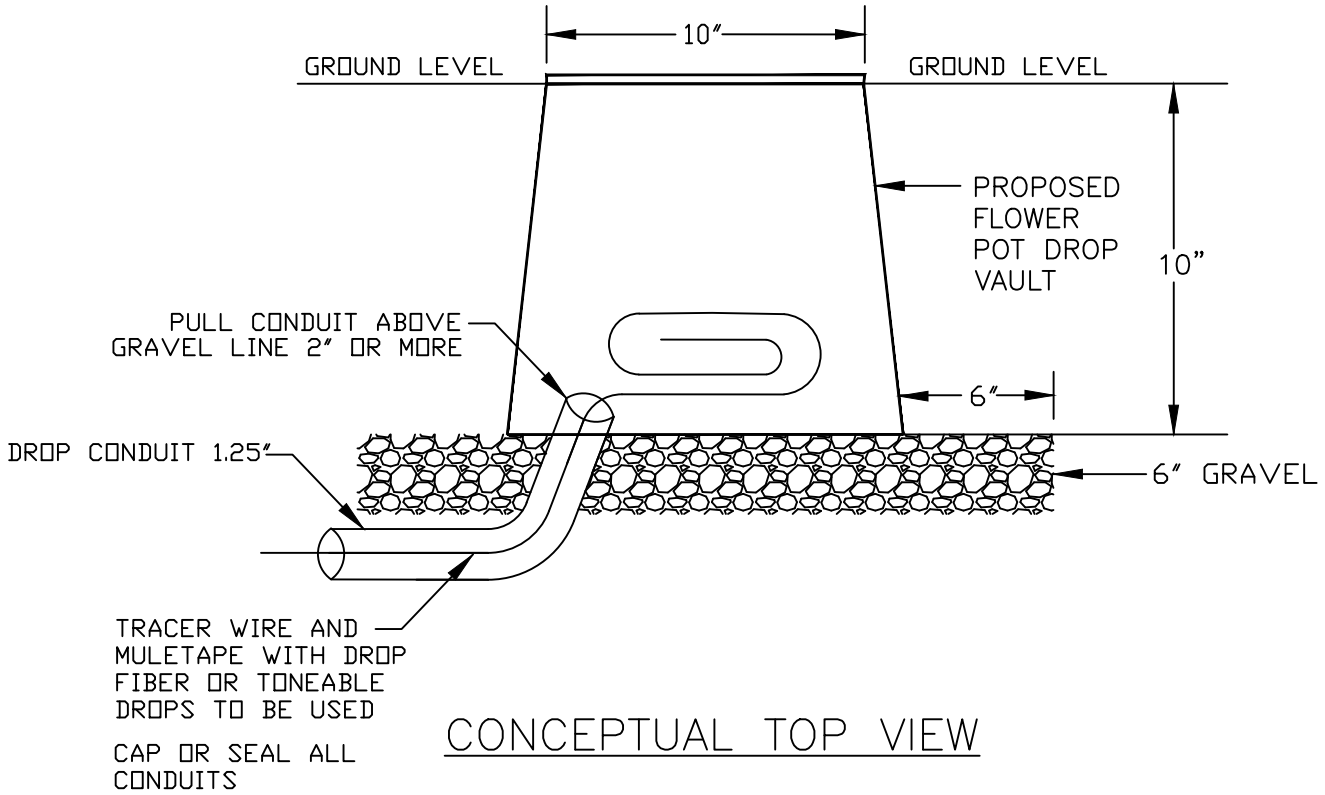
DESCRIPTION	QTY	MANUFACTURER (PREFERRED)	PART #
SCREW, LAG, 1/2" x 4-1/2"	10		
HDPE SDR 13.5 CONDUIT, VARIOUS SIZES	N/A		
2" PVC SCH40, RISER PIPE	1		
#12 TRACER WIRE	N/A		
2" PVC SCH40, SWEEP, 90 DEG	1		
CONDUIT STANDOFF BRACKET	VARIES		
CONDUIT STRAP KIT	VARIES		
2" COUPLER	1		



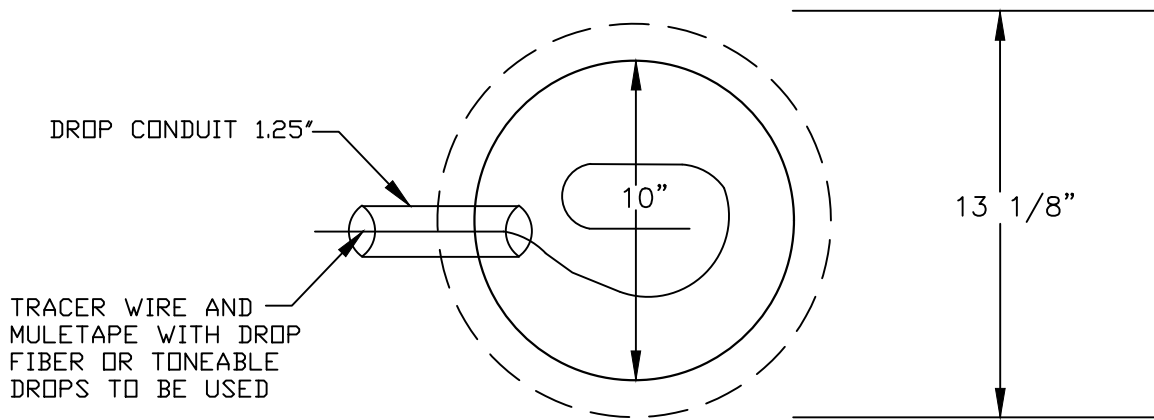
TYPICAL RISER
CONDUIT
WOOD POLE

(R2-W)

CONCEPTUAL SIDE VIEW



CONCEPTUAL TOP VIEW

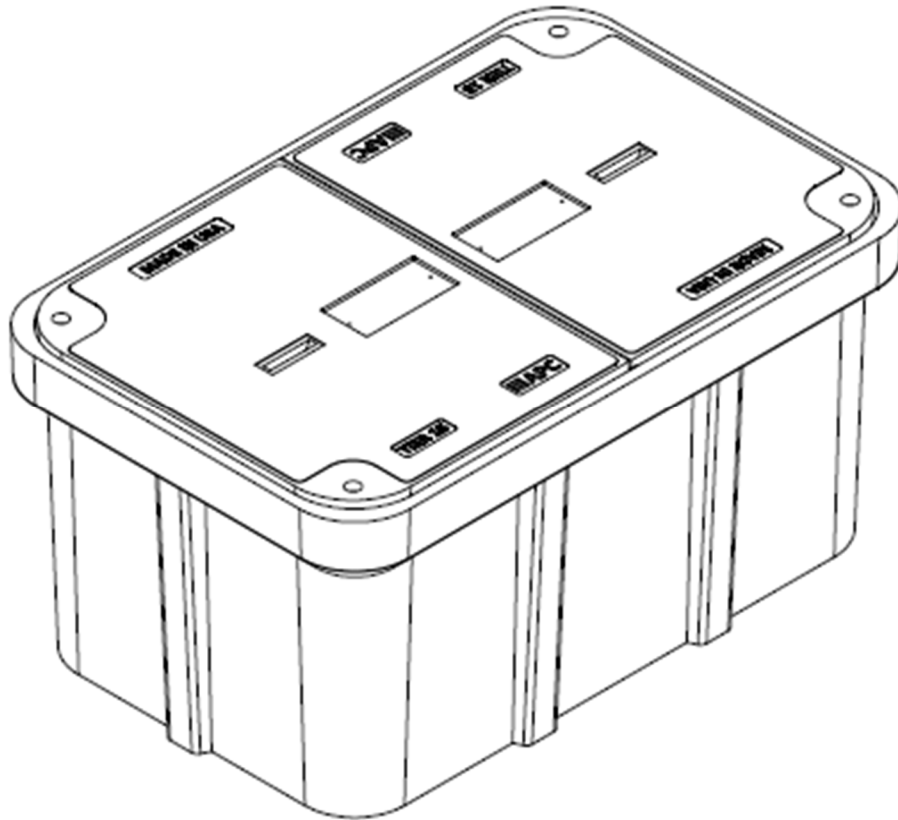


FLOWER POT

30"x48" PC UNIT, 2PC TIER 15/22
 18", 24", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit – TIER 15	30"x48"x18"	Tier 15	P304818HU15...	460 lbs.
PC Unit – TIER 22	30"x48"x18"	Tier 22	P304818HU22...	525 lbs.
PC Unit – TIER 15	30"x48"x24"	Tier 15	P304824HU15...	510 lbs.
PC Unit – TIER 22	30"x48"x24"	Tier 22	P304824HU22...	575 lbs.
PC Unit – TIER 15	30"x48"x36"	Tier 15	P304836HU15...	615 lbs.
PC Unit – TIER 22	30"x48"x36"	Tier 22	P304836HU22...	680 lbs.

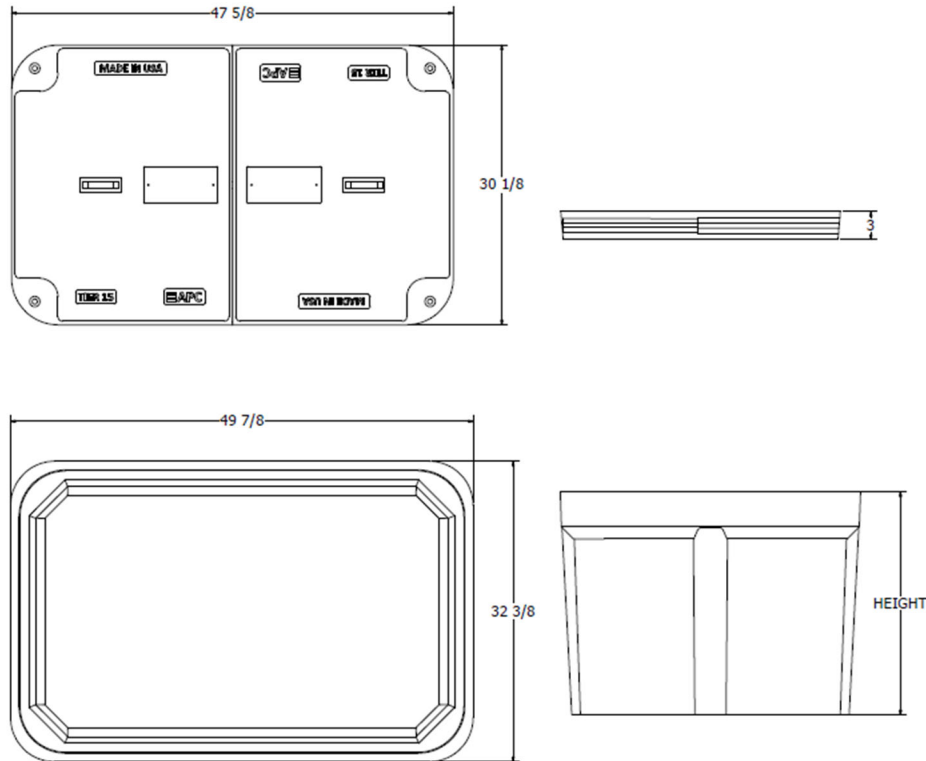


30"x48" PC UNIT, 2PC TIER 15/22

18", 24", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	30"x48"x18"	Tier 22	P304818B22	185 lbs.
Replacement Box	30"x48"x24"	Tier 22	P304824B22	235 lbs.
Replacement Box	30"x48"x36"	Tier 22	P304836B22	340 lbs.
Replacement Lids - T15	30"x48" (half)	Tier 15	Various	150 lbs.
Replacement Lids - T22	30"x48" (half)	Tier 22	Various	170 lbs.

Bolt options



Machine Thread



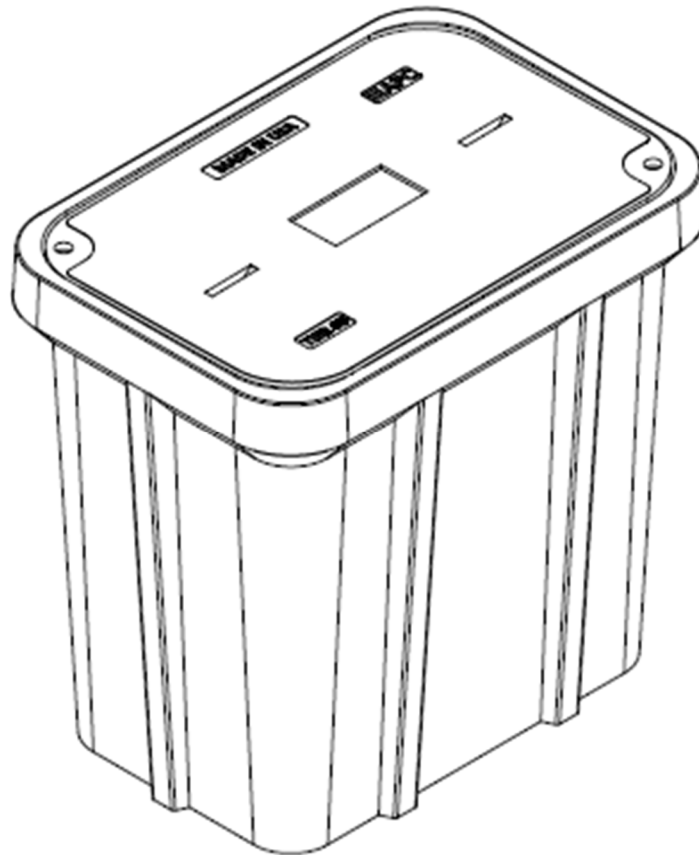
Auger Thread



24"x36" PC UNIT, TIER 15/22
 18", 24", 30", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit – TIER 15	24x36"x18"	Tier 15	P243618U15...	335 lbs.
PC Unit – TIER 22	24x36"x18"	Tier 22	P243618U22...	355 lbs.
PC Unit – TIER 15	24x36"x24"	Tier 15	P243624U15...	365 lbs.
PC Unit – TIER 22	24x36"x24"	Tier 22	P243624U22...	385 lbs.
PC Unit – TIER 15	24x36"x30"	Tier 15	P243630U15...	395 lbs.
PC Unit – TIER 22	24x36"x30"	Tier 22	P243630U22...	415 lbs.
PC Unit – TIER 15	24x36"x36"	Tier 15	P243636U15...	425 lbs.
PC Unit – TIER 22	24x36"x36"	Tier 22	P243636U22...	445 lbs.

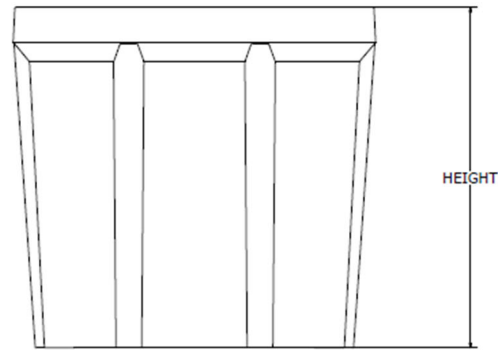
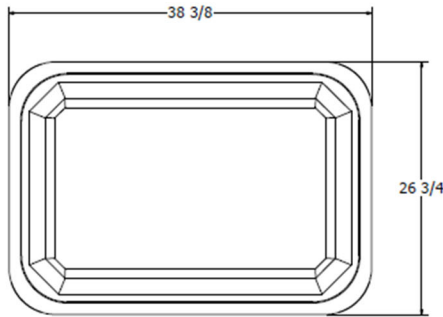
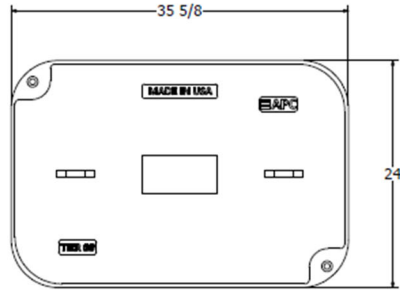


24"x36" PC UNIT, TIER 15/22

18", 24", 30", and 36" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	24"x36"x18"	Tier 22	P243618B22	165 lbs.
Replacement Box	24"x36"x24"	Tier 22	P243624B22	195 lbs.
Replacement Box	24"x36"x30"	Tier 22	P243630B22	225 lbs.
Replacement Box	24"x36"x36"	Tier 22	P243636B22	255 lbs.
Replacement Lids - T15	24"x36"	Tier 15	Various	170 lbs.
Replacement Lids - T22	24"x36"	Tier 22	Various	190 lbs.

Bolt options

Hex Head



Machine Thread



Penta Head



Auger Thread

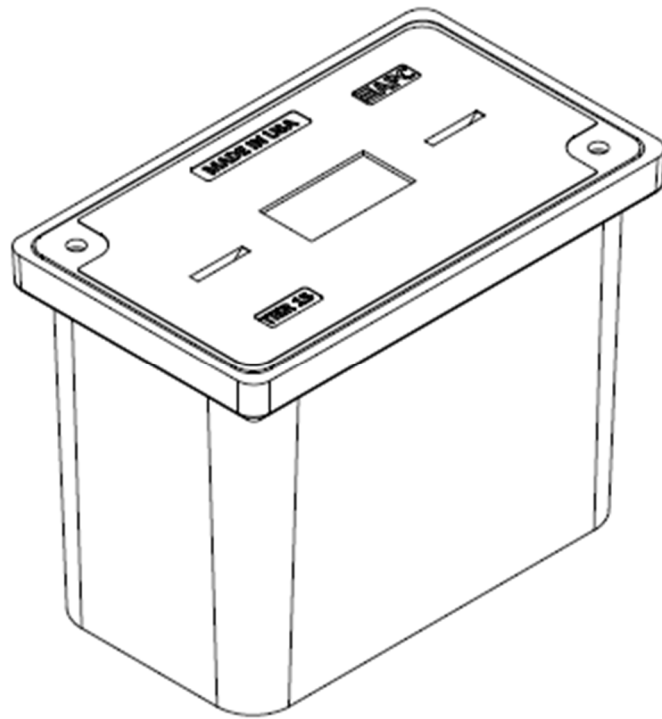


17"x30" PC UNIT, TIER 15/22

12", 18", 24", and 30" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit – TIER 15	17"x30"x12"	Tier 15	P173012U15...	138 lbs.
PC Unit – TIER 22	17"x30"x12"	Tier 22	P173012U22...	147 lbs.
PC Unit – TIER 15	17"x30"x18"	Tier 15	P173018U15...	172 lbs.
PC Unit – TIER 22	17"x30"x18"	Tier 22	P173018U22...	181 lbs.
PC Unit – TIER 15	17"x30"x24"	Tier 15	P173024U15...	192 lbs.
PC Unit – TIER 22	17"x30"x24"	Tier 22	P173024U22...	201 lbs.
PC Unit – TIER 15	17"x30"x30"	Tier 15	P173030U15...	217 lbs.
PC Unit – TIER 22	17"x30"x30"	Tier 22	P173030U22...	226 lbs.

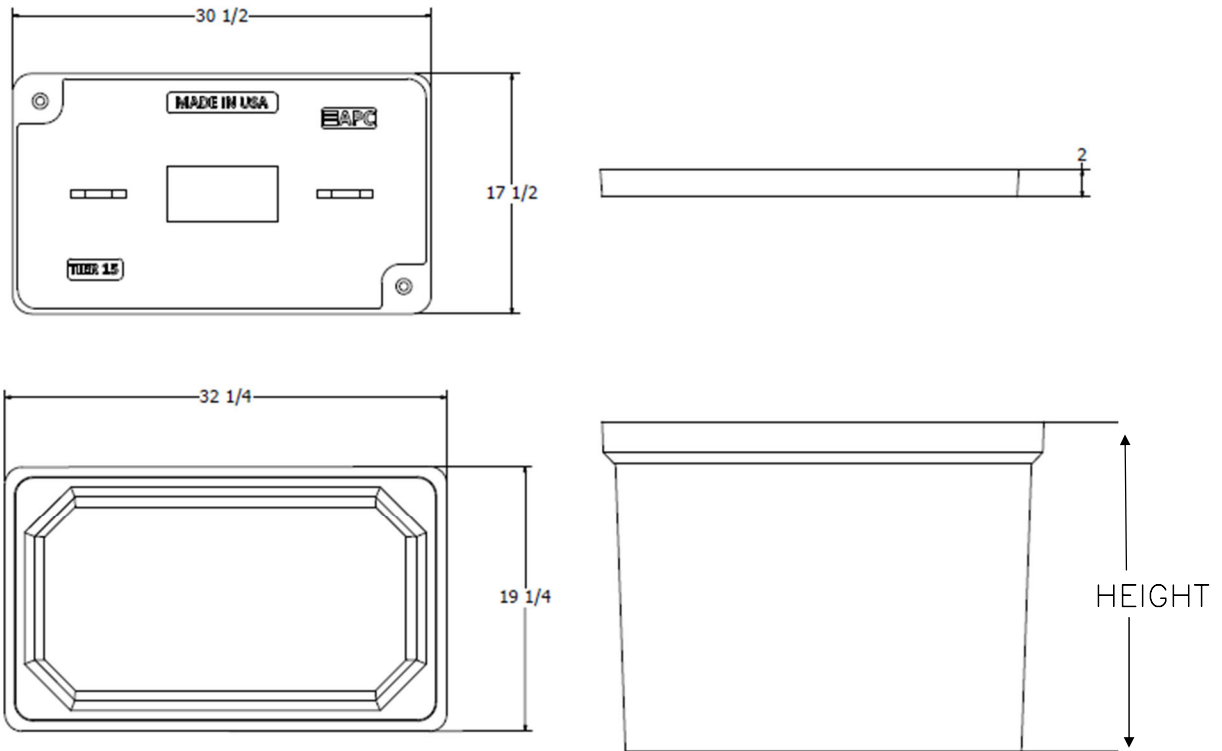


17"x30" PC UNIT, TIER 15/22

12", 18", 24", and 30" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	17"x30"x12"	Tier 22	P173012B22	66 lbs.
Replacement Box	17"x30"x18"	Tier 22	P173018B22	100 lbs.
Replacement Box	17"x30"x24"	Tier 22	P173024B22	120 lbs.
Replacement Box	17"x30"x30"	Tier 22	P173030B22	145 lbs.
Replacement Lids – T15	17"x30"	Tier 15	Various	72 lbs.
Replacement Lids – T22	17"x30"	Tier 22	Various	81 lbs.

Bolt options



Machine Thread



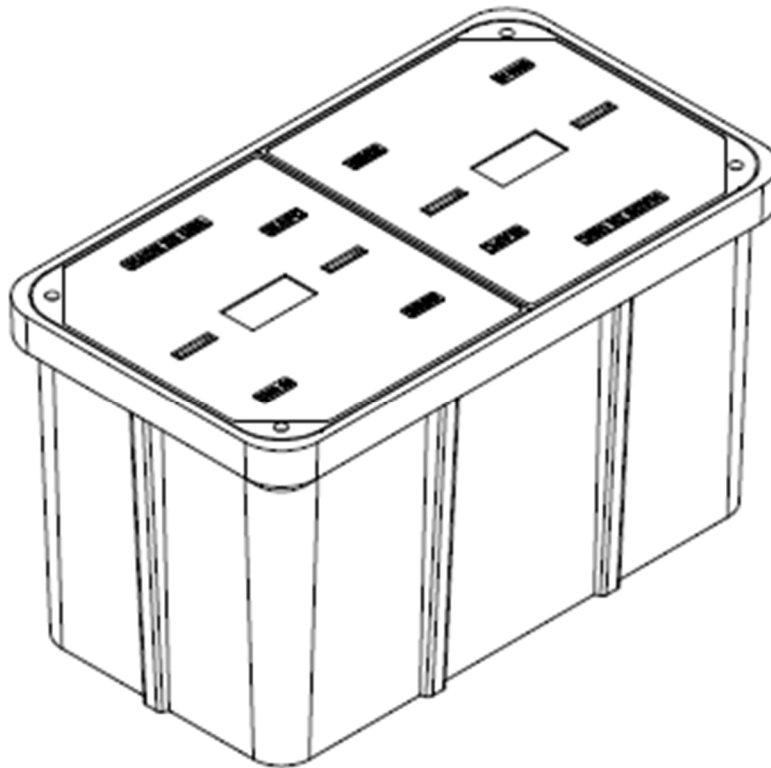
Auger Thread



33"x60" PC UNIT, 2PC TIER 15/22
36" HEIGHT



AMERICAN POLYMER COMPANY



Description	Nominal Size	ANSI Tier	Part Number	Estimated Weight
PC Unit - TIER 15	33"x60"x36"	Tier 15	P336036U15...	930 lbs.
PC Unit - TIER 22	33"x60"x36"	Tier 22	P336036U22...	1030 lbs.

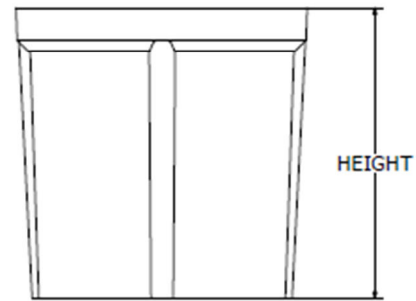
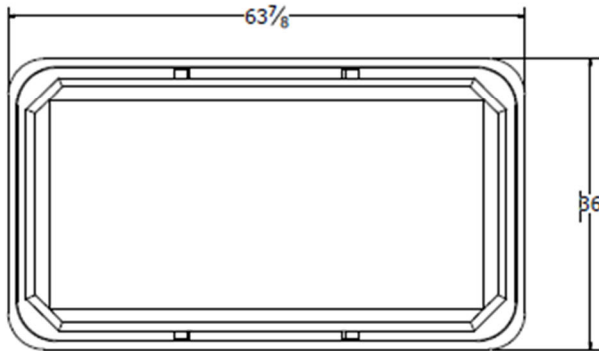
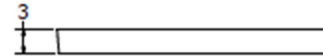
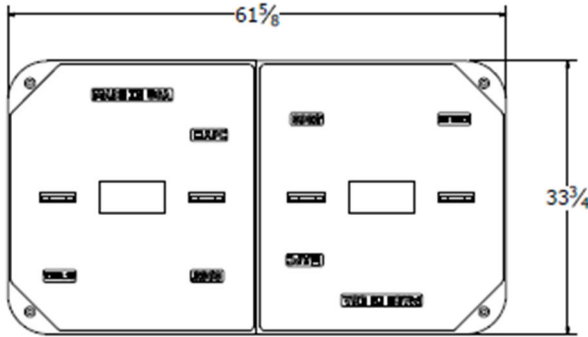


33"x60" PC UNIT, 2PC TIER 15/22

36" HEIGHT



AMERICAN POLYMER COMPANY



Components	Nominal Size	ANSI Tier	Part Number	Estimated Weight
Replacement Box	33"x60"x36"	Tier 22	P336036B22	530 lbs.
Replacement Lids - T15	33"x60" (half)	Tier 15	Various	200 lbs.
Replacement Lids - T22	33"x60" (half)	Tier 22	Various	250 lbs.

Bolt options

Hex Head



Machine Thread



Penta Head



Auger Thread



Speed (MPH) Prior To Road Work	SIGN SPACING, FT.		Must be Approved by an Engineer				
	Non-Divided Highways	Divided Highways	BUFFER SPACE, FT.	TAPER LENGTH, FT.	CHANNELIZING SPACING, FT.		
	Length	Shoulder (10 ft. Width)	Lane (12 ft. Width)	Through Taper	Through Buffer/Work Area	Through Buffer/Work Area	
0-35	200	200	250	70	245	35	50
40-45	350	500	360	150	540	40	80
50-55	500	1000	495	185	660	50	100
60-70	SA-1000, SB-1500, SC-2640		730	235	840	60	120
Urban Low Speed - 100 FT							

APPROVED/ACCEPTED BY:
ENGINEER, OWNER, or PRIME CONTRACTOR
 Check for Notice to Proceed.

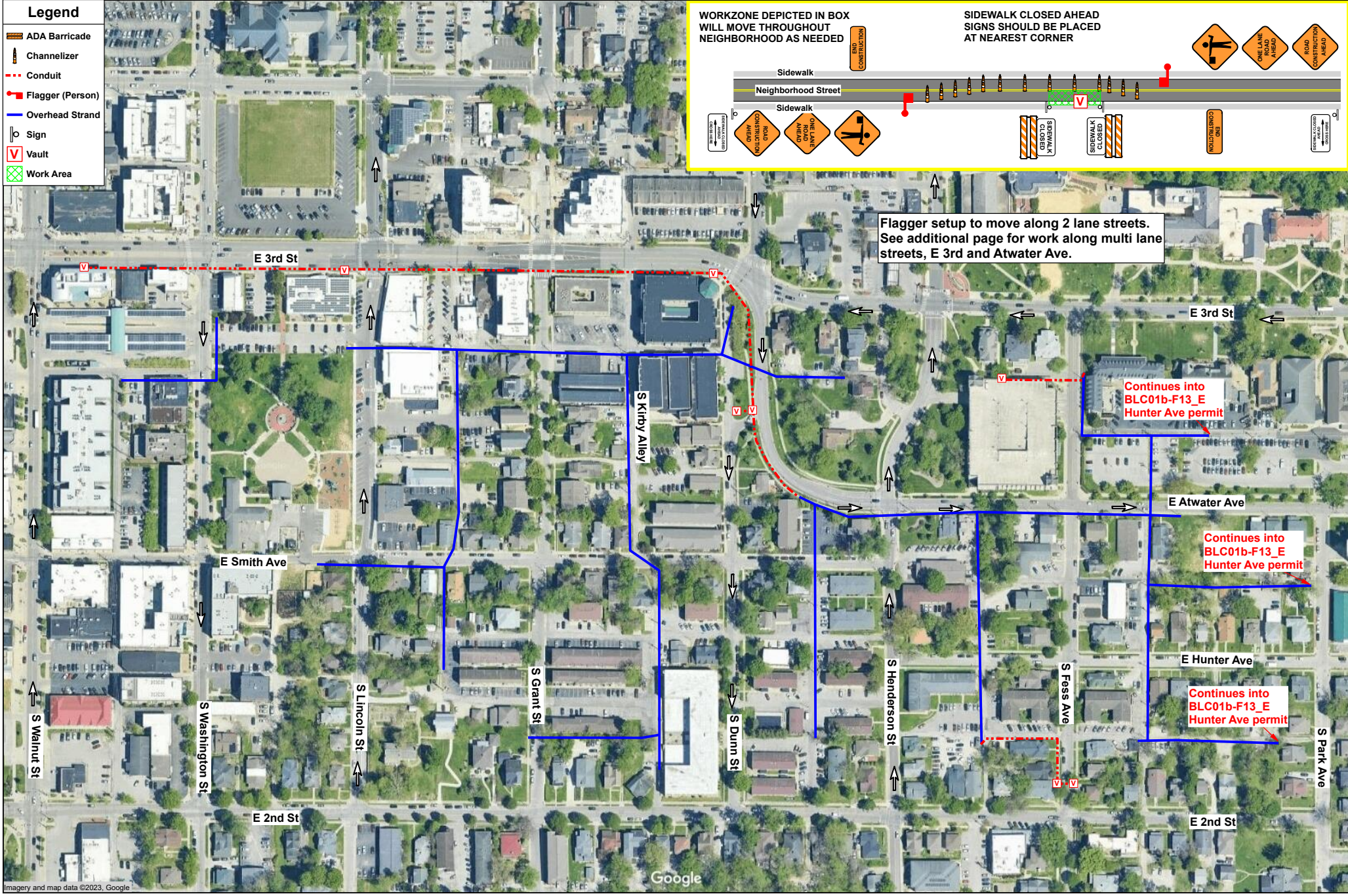
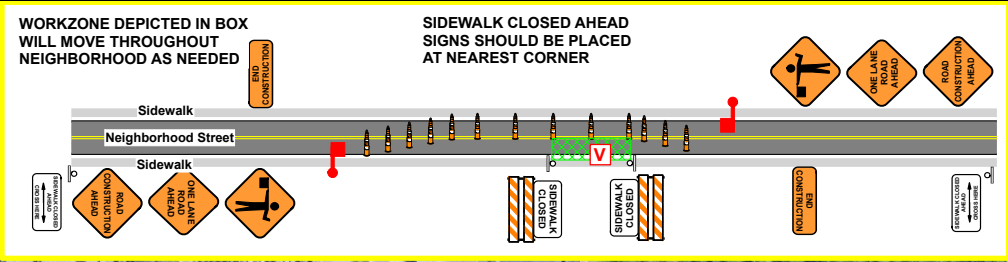
Signature: _____

Company: _____

Date: 11/21/2023 **Project:** BLN01b-F16 Kirby Aly TCP :
: **Traffic Control Suggestion For:** ATLANTIC ENGINEERING (AEG) :
By: Road Runner Safety Services, Inc. : Nathan

Comments:
Drawing not to scale. Traffic control plan must be approved by an engineer. This is a suggestion only. Road Runners Safety Services, Inc. has no liability for this suggested traffic control plan. Actual placement and spacing of all traffic control devices will depend on field conditions and must conform to MUTCD standards.

- Legend**
- ADA Barricade
 - Channelizer
 - Conduit
 - Flagger (Person)
 - Overhead Strand
 - Sign
 - Vault
 - Work Area



Spacing Charts Based on MUTCD Must be Approved by an Engineer

Speed (MPH) Prior To Road Work	SIGN SPACING, FT.		BUFFER SPACE, FT.	TAPER LENGTH, FT.		CHANNELIZING SPACING, FT.	
	Non-Divided Highways	Divided Highways	Length	Shoulder (10 ft Width)	Lane (12 ft Width)	Through Taper	Through Buffer/Work Area
0-35	200	200	250	70	245	35	50
40-45	350	500	360	150	540	40	80
50-55	500	1000	495	185	660	50	100
60-70	SA-1000, SB-1500, SC-2640		730	235	840	60	120
Urban Low Speed - 100 FT							

APPROVED/ACCEPTED BY:
ENGINEER, OWNER, or PRIME CONTRACTOR

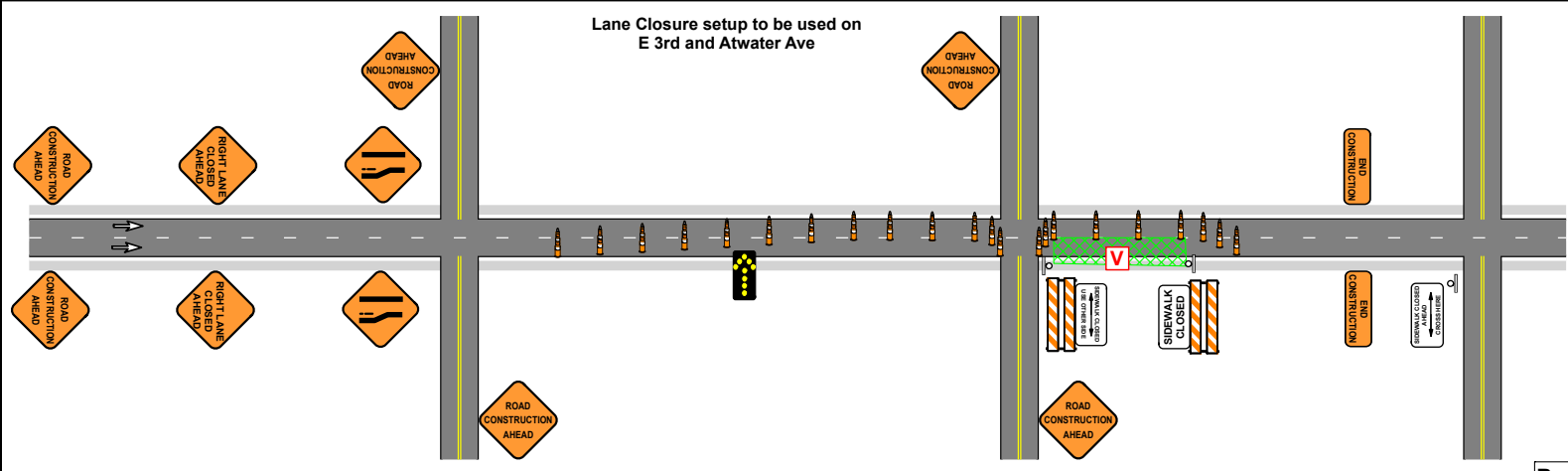
Check for Notice to Proceed.

Signature: _____

Company: _____

Date: 11/21/2023 **Project:** BLN01b-F16 Kirby Aly TCP2 :
: **Traffic Control Suggestion For:** ATLANTIC ENGINEERING (AEG) :
By: Road Runner Safety Services, Inc. : Nathan

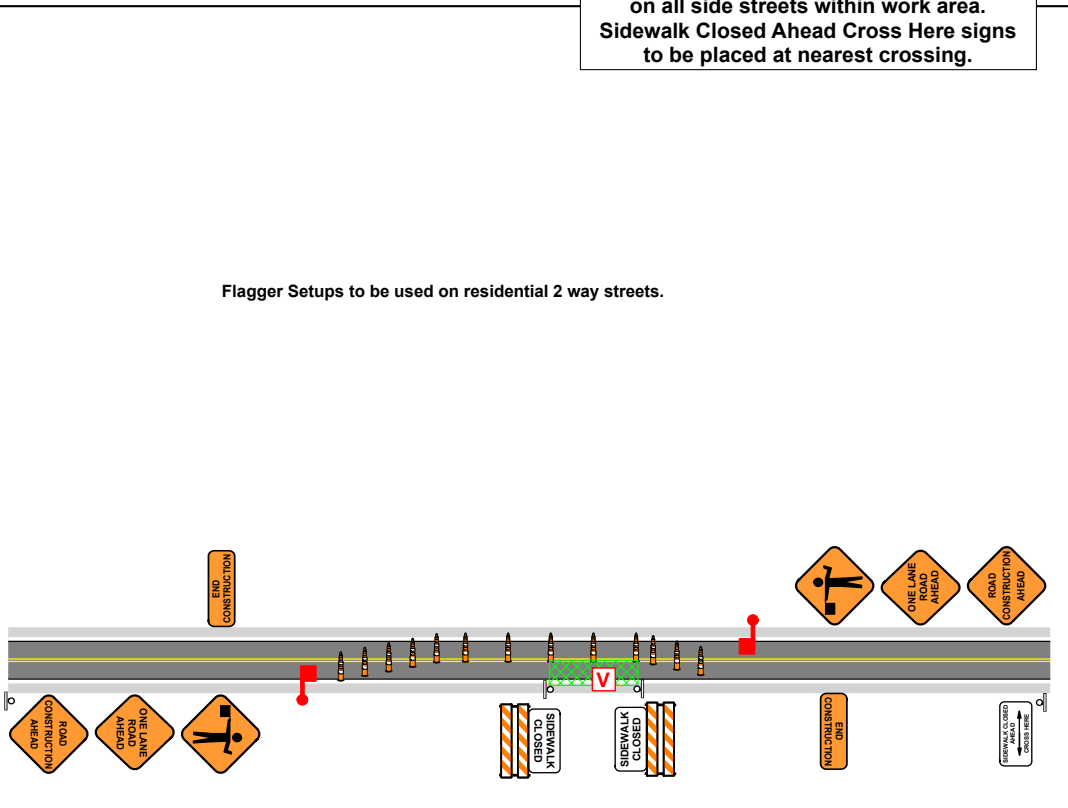
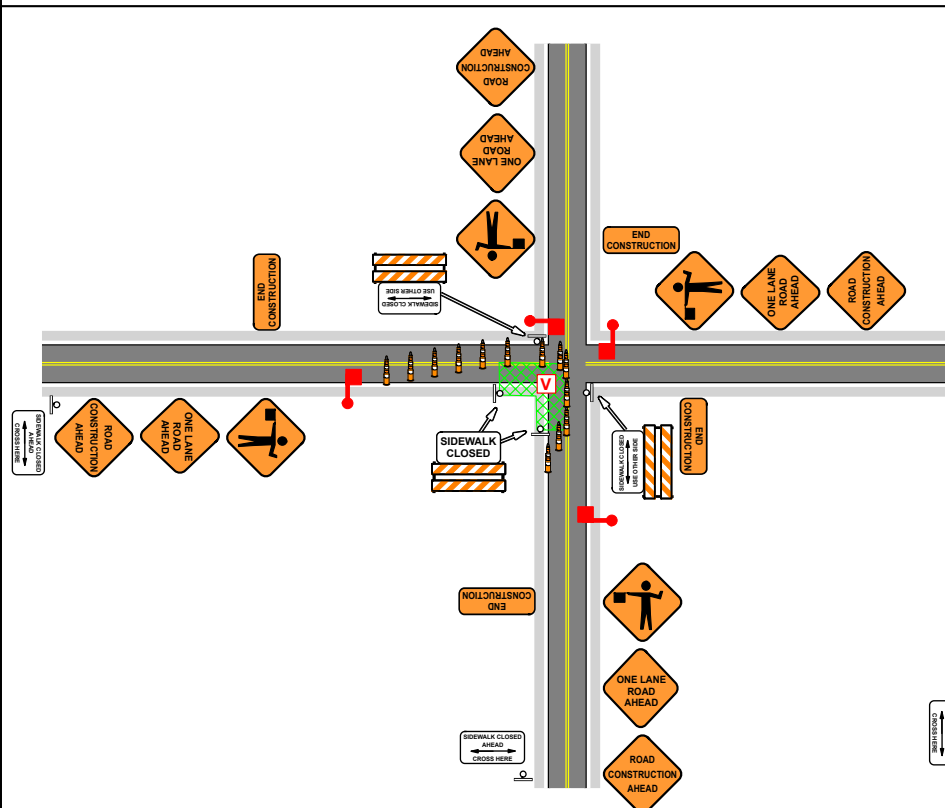
Comments:
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Legend

- ADA Barricade
- Arrow Board
- Flagger (Person)
- Sign
- Trimline
- Vault
- Work Area

Road Construction Ahead signs to be placed on all side streets within work area. Sidewalk Closed Ahead Cross Here signs to be placed at nearest crossing.





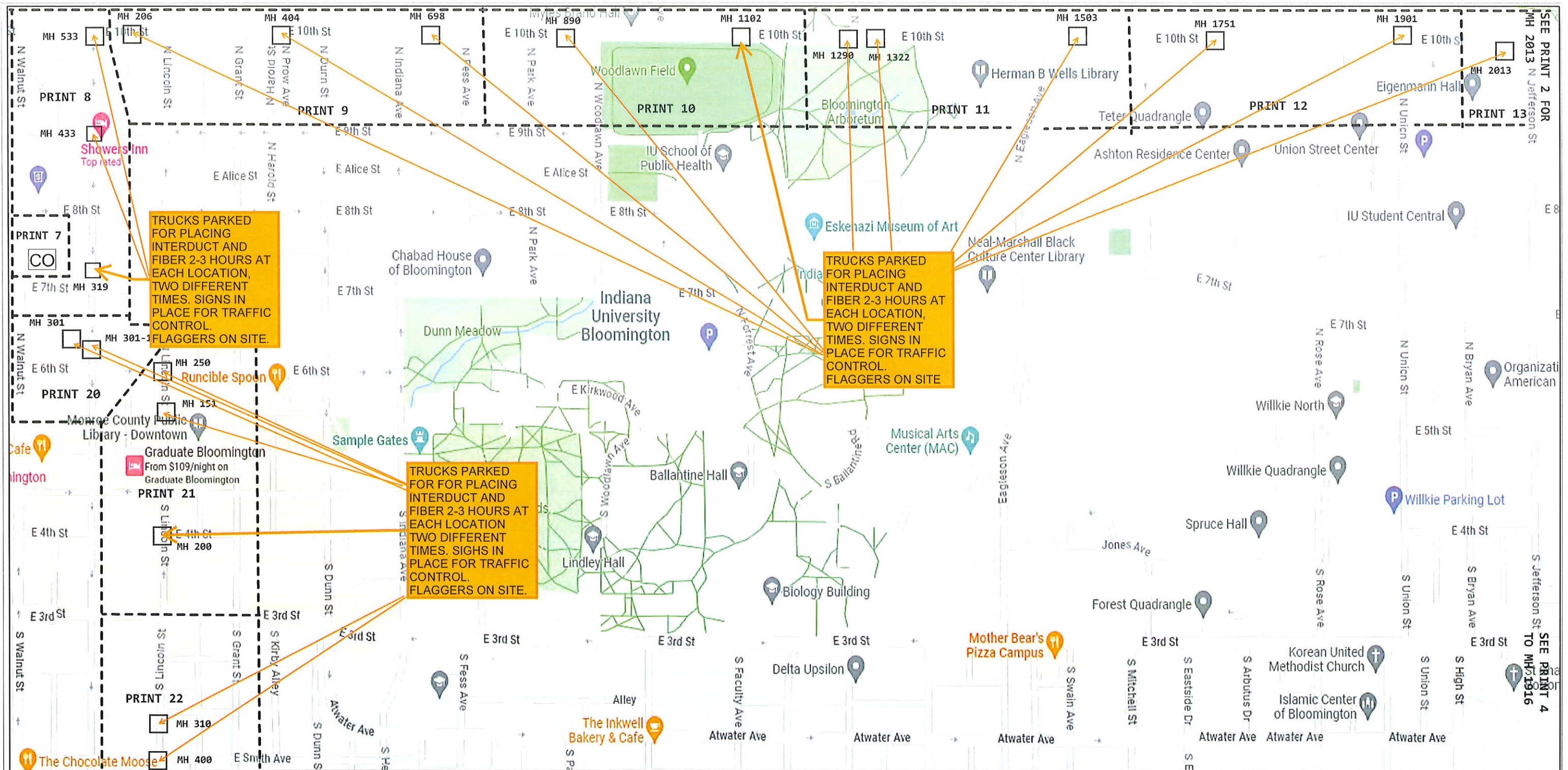
Board of Public Works Staff Report

Project/Event:	Lane and Sidewalk Closures along E 10 th St, S Washington St, and S Lincoln St
Staff Representative:	Alex Gray
Petitioner/Representative:	Lineal Contracting for AT&T
Date:	January 2 nd , 2024

Report: Lineal Contracting is requesting lane and sidewalk closures along E 10th St, S Washington St, and S Lincoln St while they install fiber for AT&T. They will have both aerial and underground boring and will be moving from location to location over the course of 23 days. They would like to start on January 8th, 2024 and finish January 31st, 2024. The work is being done in those areas starting from E Smith Ave up to E 10th St and then east towards State ROW and E 3rd St. This permit only covers the City ROW of S Washington St, S Lincoln St, and the E 10th St prior to the Bypass.

As a note there are additional areas in the permit that will have 2-3 hrs of a closure while Lineal works. These are as follows:

- S Sare Rd at S McCartney Ln
- S College Mall Rd at the Kroger entrance before Covenanter Dr.
- S Smith Rd and E Moores Pike
- S Auto Mall Rd south of E Buick Cadillac Blvd
- E 3rd St prior to the Bypass between S High St and S College Mall Rd
- S Anita St along E Hunter Ave



ATTACHMENT TO POWER COMPANY POLES REQUIRED FOR THIS PROJECT. DO NOT PROCEED WITH PLACING UNTIL SPANS REQUEST IS SUBMITTED AND APPROVED.

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

LEGEND:

- PRINT 1-LOCATION MAP
- PRINT 2-LOCATION MAP
- PRINT 3-LOCATION MAP
- PRINT 4-LOCATION MAP
- PRINT 5-LOCATION MAP
- PRINT 6-LOCATION MAP
- PRINT 7-CO TERMINATIONS
- PRINT 8-MH319, MH433, MH533
- PRINT 9-MH206, MH404, MH698
- PRINT 10-MH890, MH1102
- PRINT 11-MH1290, MH1322, MH1503
- PRINT 12-MH1751, MH1901
- PRINT 13-MH2013, MH2101
- PRINT 14-MH2200, MH2601
- PRINT 15-MH2651, MH2701, MH2700
- PRINT 16-MH2900, MH3300, MH3400
- PRINT 17-MH3700, MH3900, MH4012
- PRINT 18-MH4080, MH4221
- PRINT 19-MH620
- PRINT 20-MH301, MH301-1
- PRINT 21-MH250, MH151, MH200
- PRINT 22-MH310, MH400
- PRINT 23-MH1916, MHT-1,
- PRINT 24-MH301H, MH2400, MH2440
- PRINT 25-MH2632, MH2618, MH2802
- PRINT 26-MH2980, MH3200, MH3400
- PRINT 27-MH3500, MH3600, MH3700

- PRINT 28-MH3900, MH4100, MH4400
- PRINT 29-MH4500, MH4600T
- PRINT 30-BURIED
- PRINT 31-BURIED
- PRINT 32-HH5
- PRINT 33-BURIED
- PRINT 34-BUIRED
- PRINT 35-HH14
- PRINT 36-BURIED
- PRINT 37-BURIED
- PRINT 38-BUREID
- PRINT 39-BURIED
- PRINT 40-HH24 1/2
- PRINT 41-MH4
- PRINT 42-MH5
- PRINT 43-HH 2727

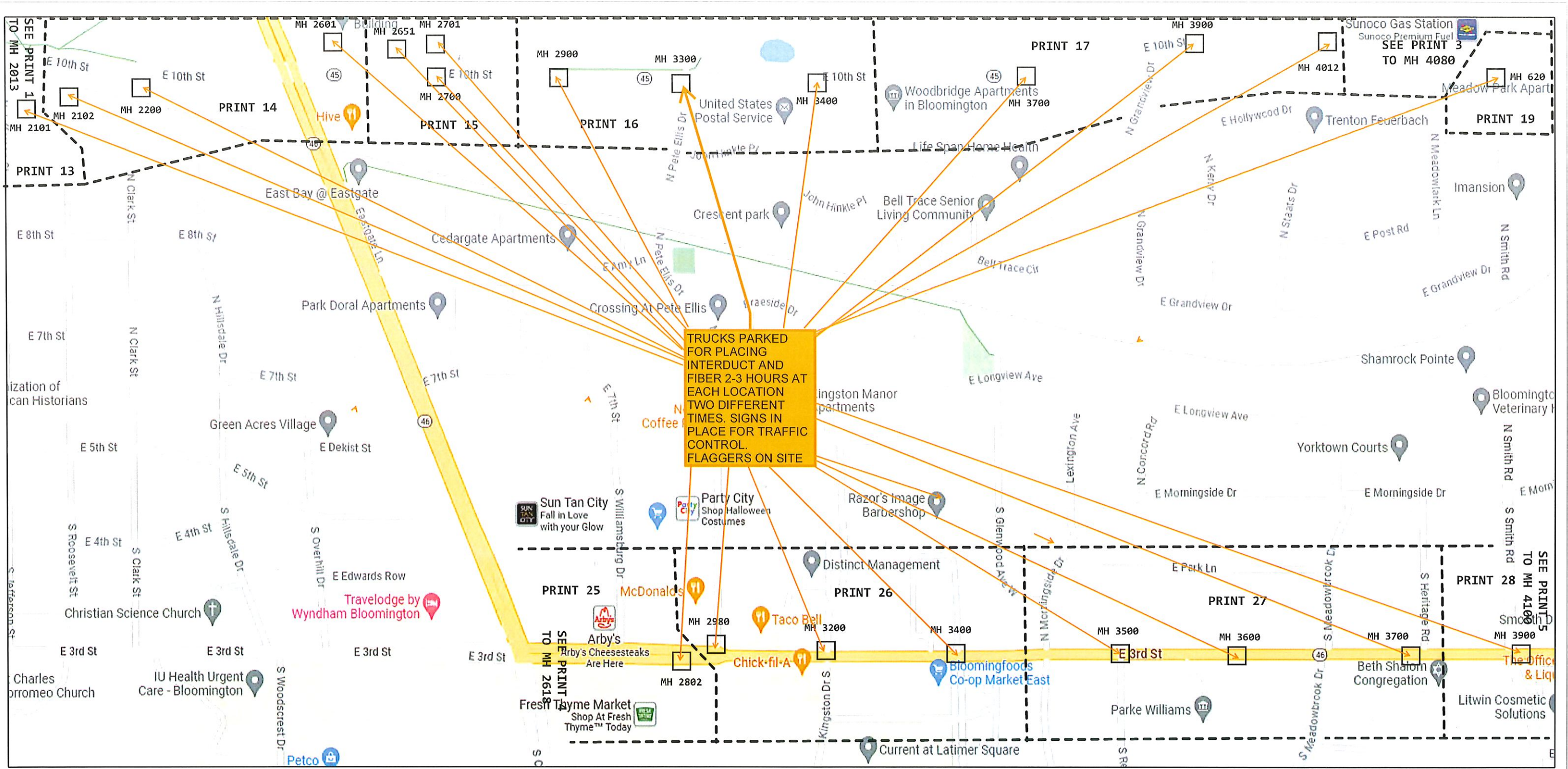
PROJECT DEPENDENT UPON COMPLETION OF UT: A02KCWA FIRST

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	GLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 1 OF 43	

4



TRUCKS PARKED FOR PLACING INTERDUCT AND FIBER 2-3 HOURS AT EACH LOCATION TWO DIFFERENT TIMES. SIGNS IN PLACE FOR TRAFFIC CONTROL. FLAGGERS ON SITE

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15KV Area
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PROJECT DEPENDENT UPON COMPLETION OF UT: A02KCWA FIRST

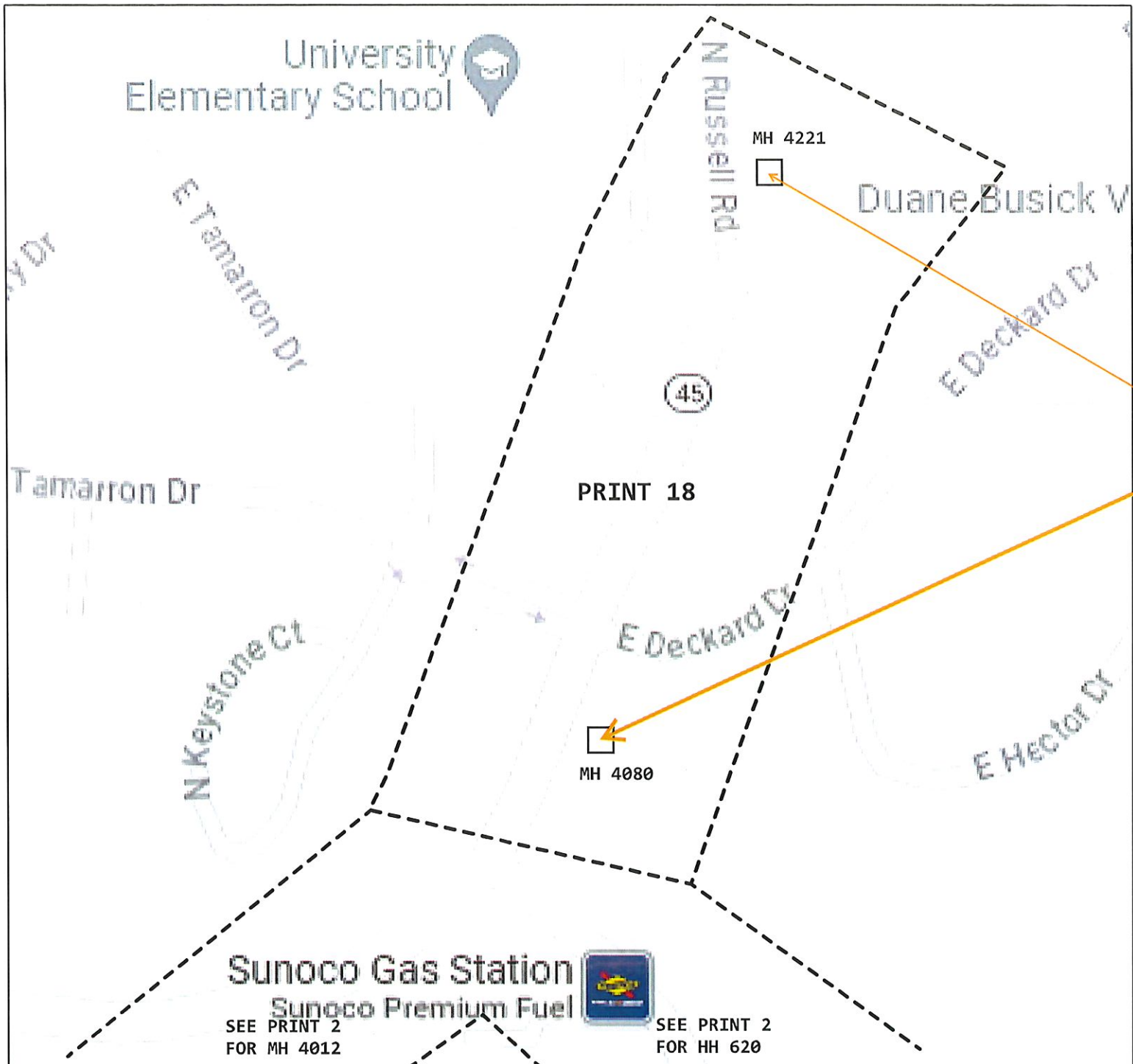
ATTACHMENT TO POWER COMPANY POLES REQUIRED FOR THIS PROJECT. DO NOT PROCEED WITH PLACING UNTIL SPANS REQUEST IS SUBMITTED AND APPROVED.

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 2 OF 43	

4



CONSTRUCTION NOTES:

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- 3 Bury/Bore at 24" MINIMUM
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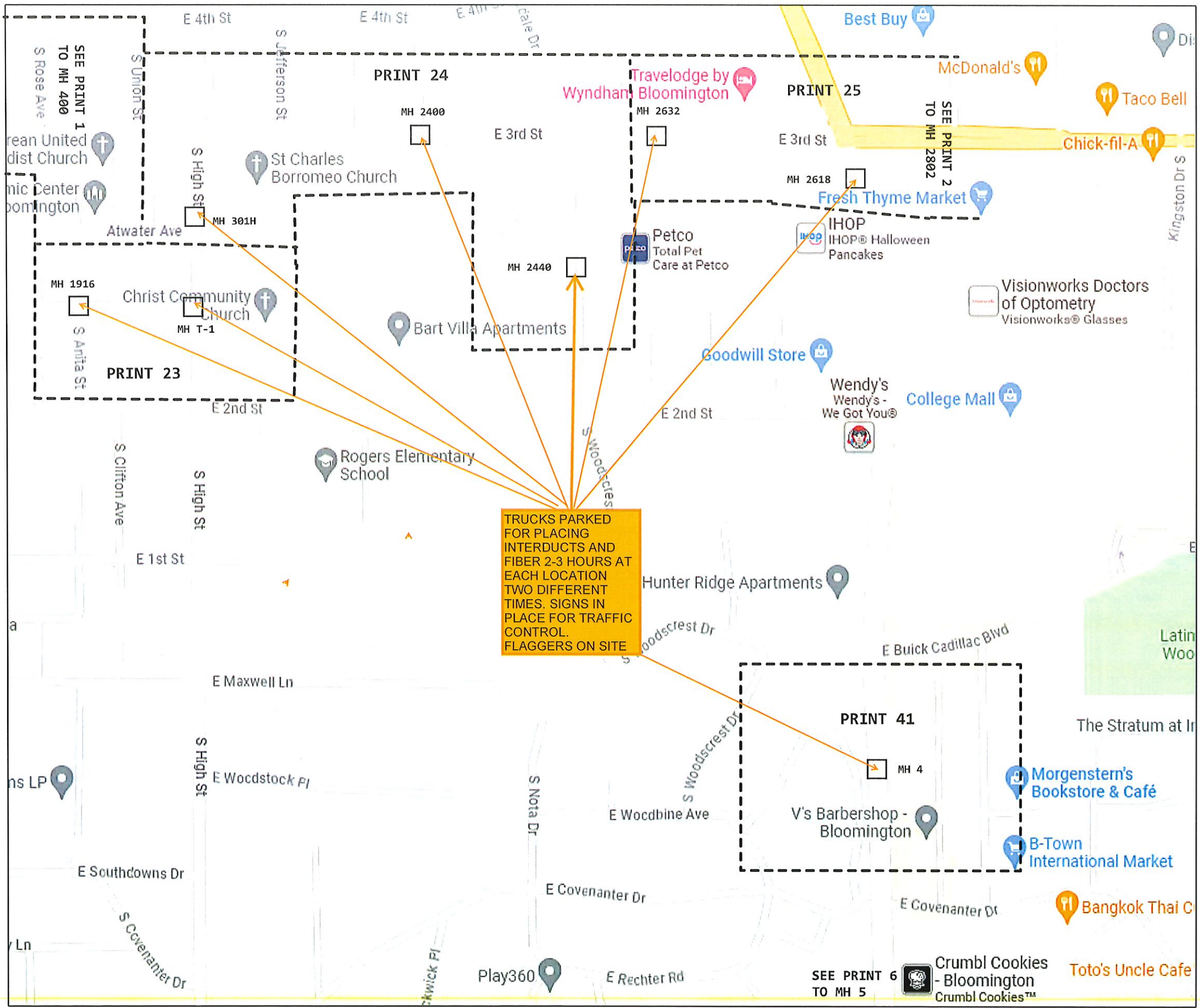
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PROJECT DEPENDENT UPON COMPLETION OF UT: A02KCWA FIRST

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 3 OF 43	



PROJECT DEPENDENT
UPON COMPLETION OF
UT: A02KCWA FIRST

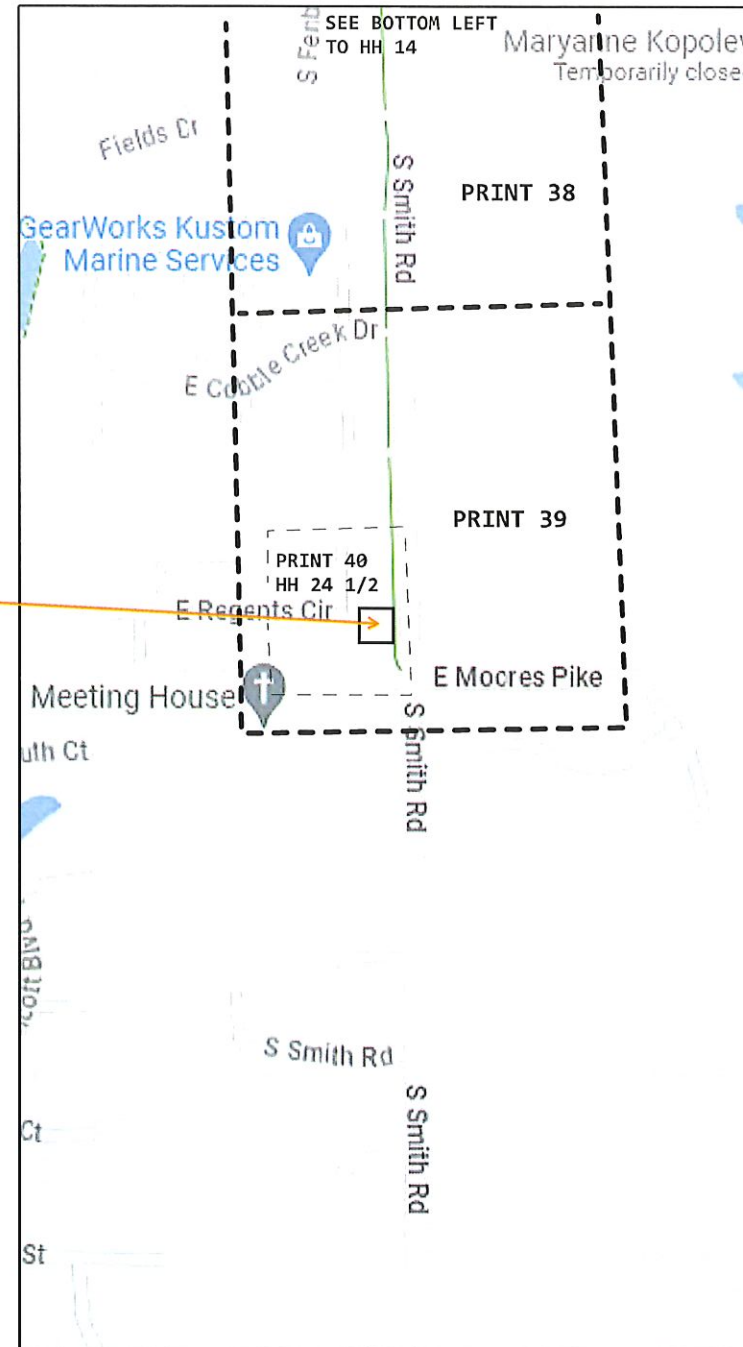
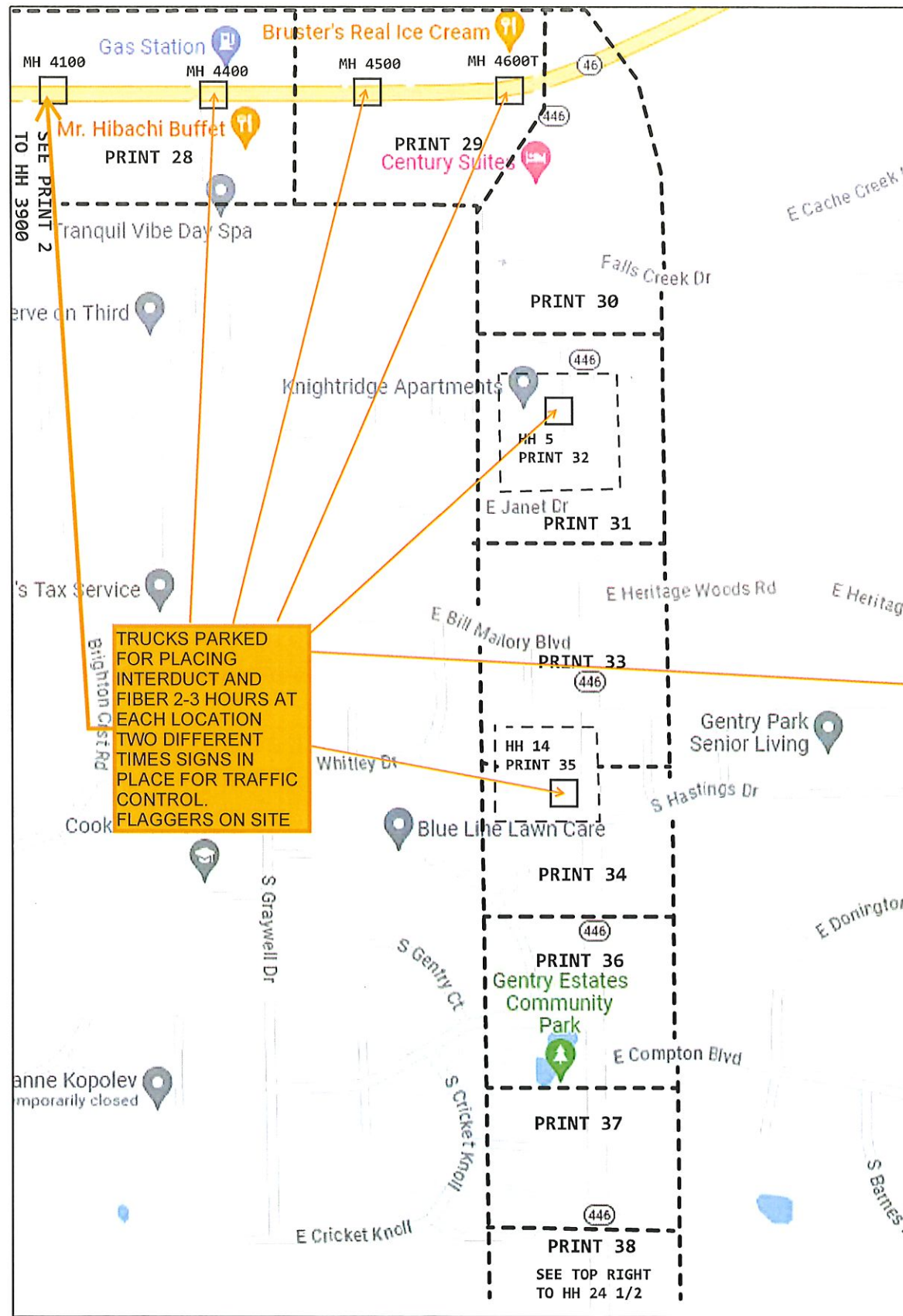
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ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC		
PROJECT # A02MQK7	DATE SVC REQ'D 08/30/2024	
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 4 OF 43	



CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ATTACHMENT TO POWER COMPANY POLES REQUIRED FOR THIS PROJECT. DO NOT PROCEED WITH PLACING UNTIL SPANS REQUEST IS SUBMITTED AND APPROVED.

PROJECT DEPENDENT UPON COMPLETION OF UT: A02KCWA FIRST

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 5 OF 43	

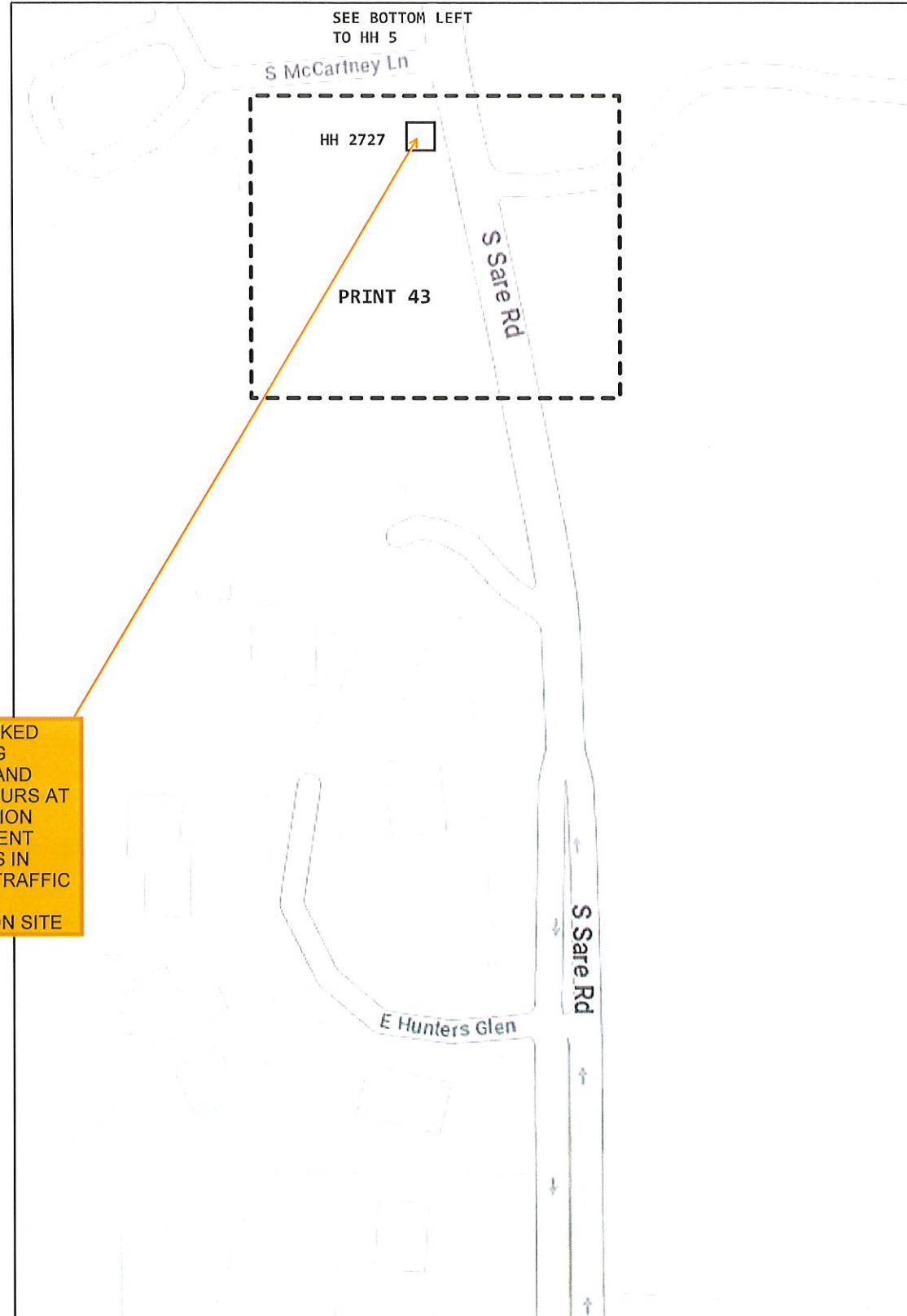
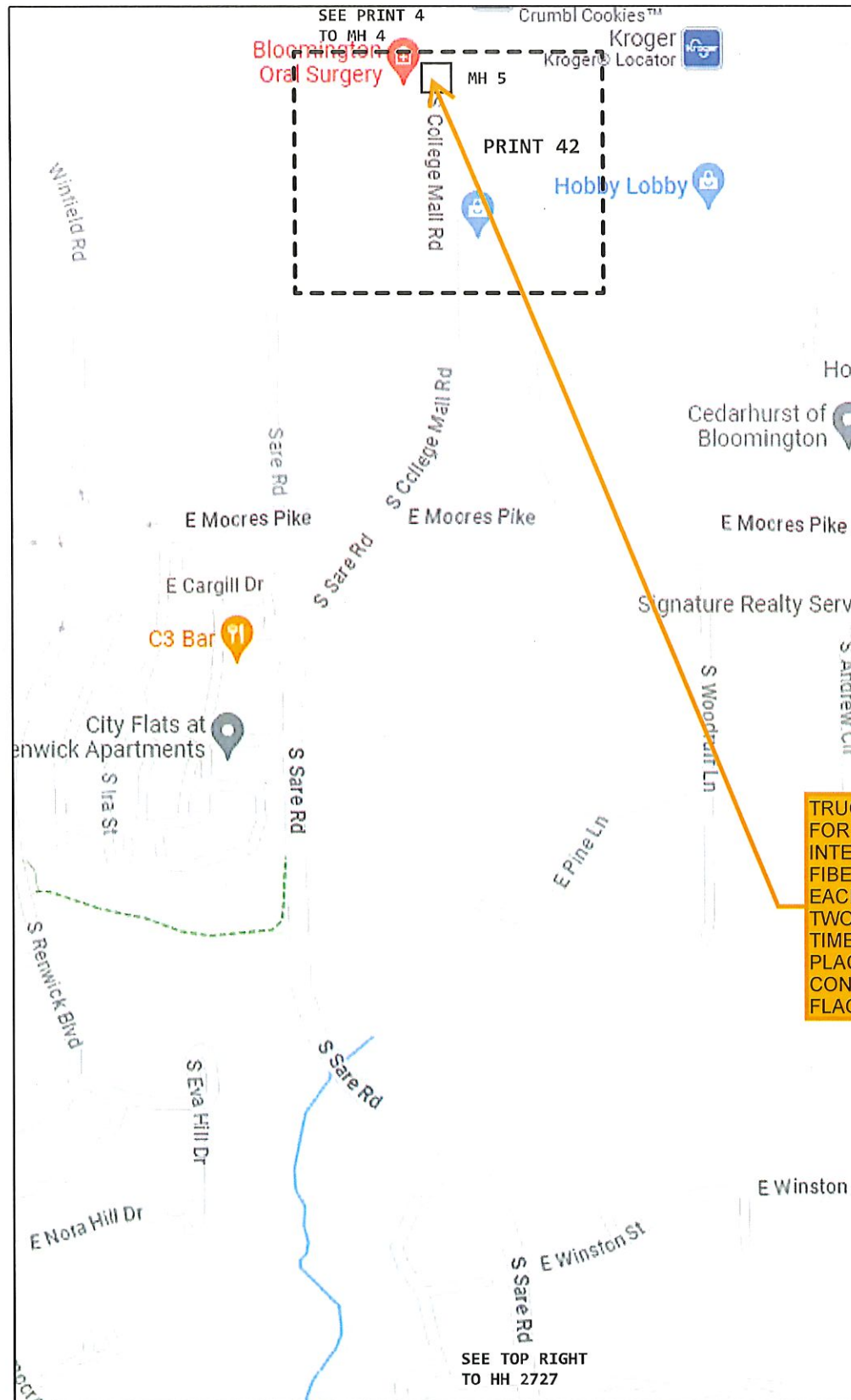
CONSTRUCTION NOTES:

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- 5 INDOT PERMIT REQUIRED



ATTACHMENT TO POWER COMPANY POLES REQUIRED FOR THIS PROJECT. DO NOT PROCEED WITH PLACING UNTIL SPANS REQUEST IS SUBMITTED AND APPROVED.

PROJECT DEPENDENT
UPON COMPLETION OF
UT: A02KCWA FIRST



TRUCKS PARKED FOR PLACING INTERDUCT AND FIBER 2-2 HOURS AT EACH LOCATION TWO DIFFERENT TIMES. SIGNS IN PLACE FOR TRAFFIC CONTROL. FLAGGERS ON SITE

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 6 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
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BLOOMINGTON CO
301 N WASHINGTON ST

+60' RACKING

030305.04 01
TRAY A BLTNIN01
301 N WASHINGTON ST
FDF-288 (PPA) 257C
BL007,1-288



(PPA) 85C 0'
288 INV
BL007,1-288

030305.04 02
TRAY B BLTNIN01
301 N WASHINGTON ST
FDF-288 (PPA) 257C
BL007,289-576



(PPA) 85C 0'
288 INV
BL007,289-576

CO TERMINATIONS
PLACED ON UT:
A02MRJE

030305.04 03
TRAY C BLTNIN01
301 N WASHINGTON ST
FDF-288 (PPA) 257C
BL008,1-288



(PPA) 85C 0'
288 INV
BL008,1-288

030305.04 04
TRAY D BLTNIN01
301 N WASHINGTON ST
FDF-288 (PPA) 257C
BL008,289-576

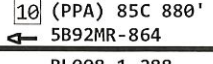
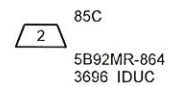
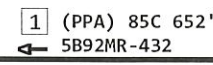
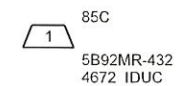
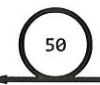


(PPA) 85C 0'
288 INV
BL008,289-576

030305.04 05
TRAY E BLTNIN01
301 N WASHINGTON ST
FDF-288 (PPA) 257C
BL008,577-864

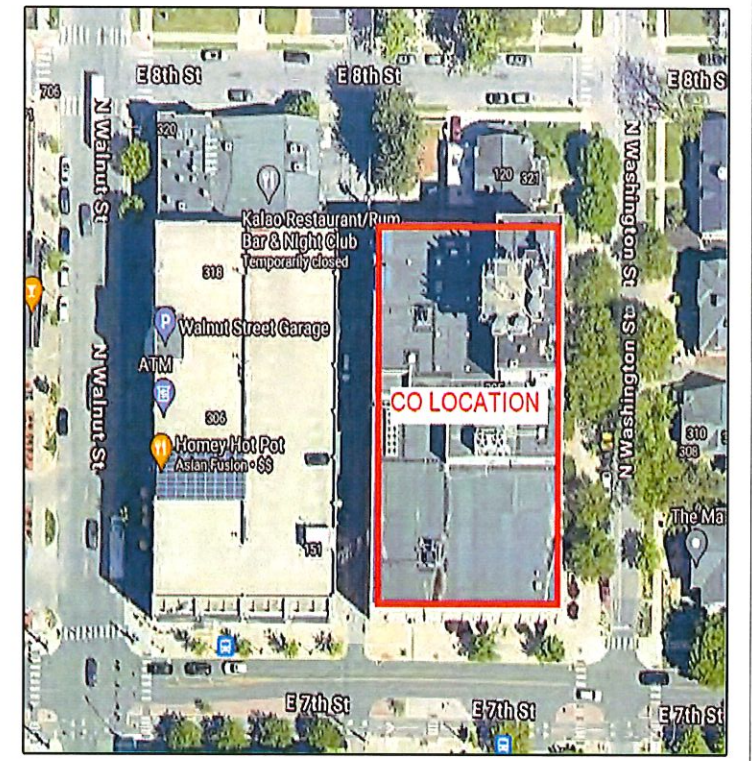


(PPA) 85C 0'
288 INV
BL008,577-864



SEE PRINT 8
TO MH 319

SEE PRINT 8
TO MH 319



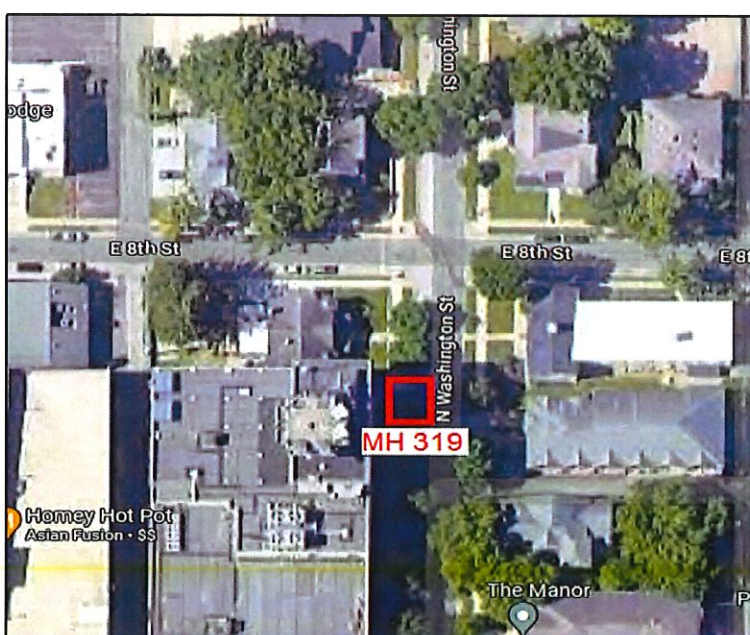
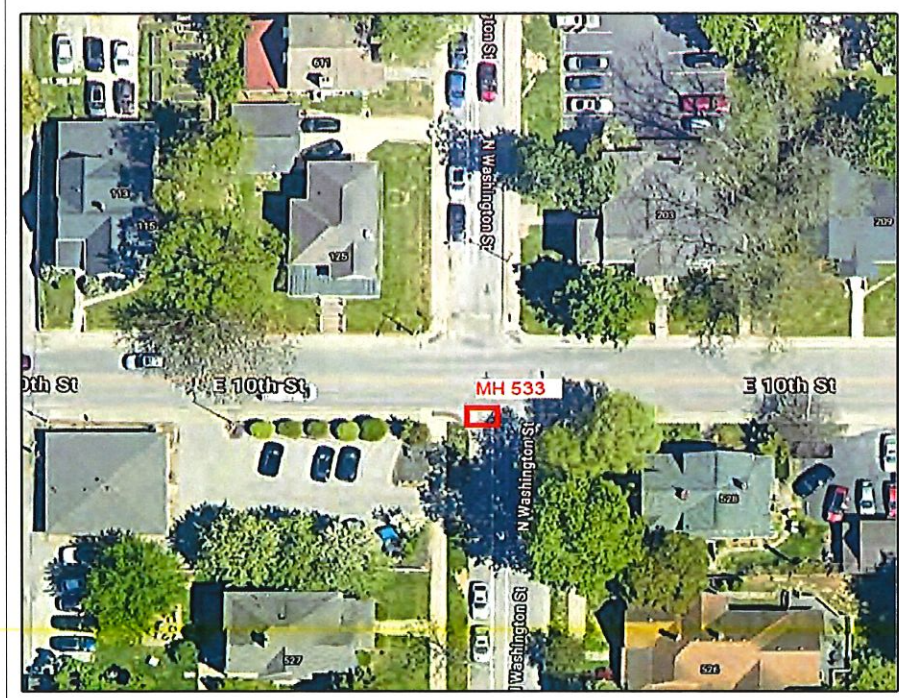
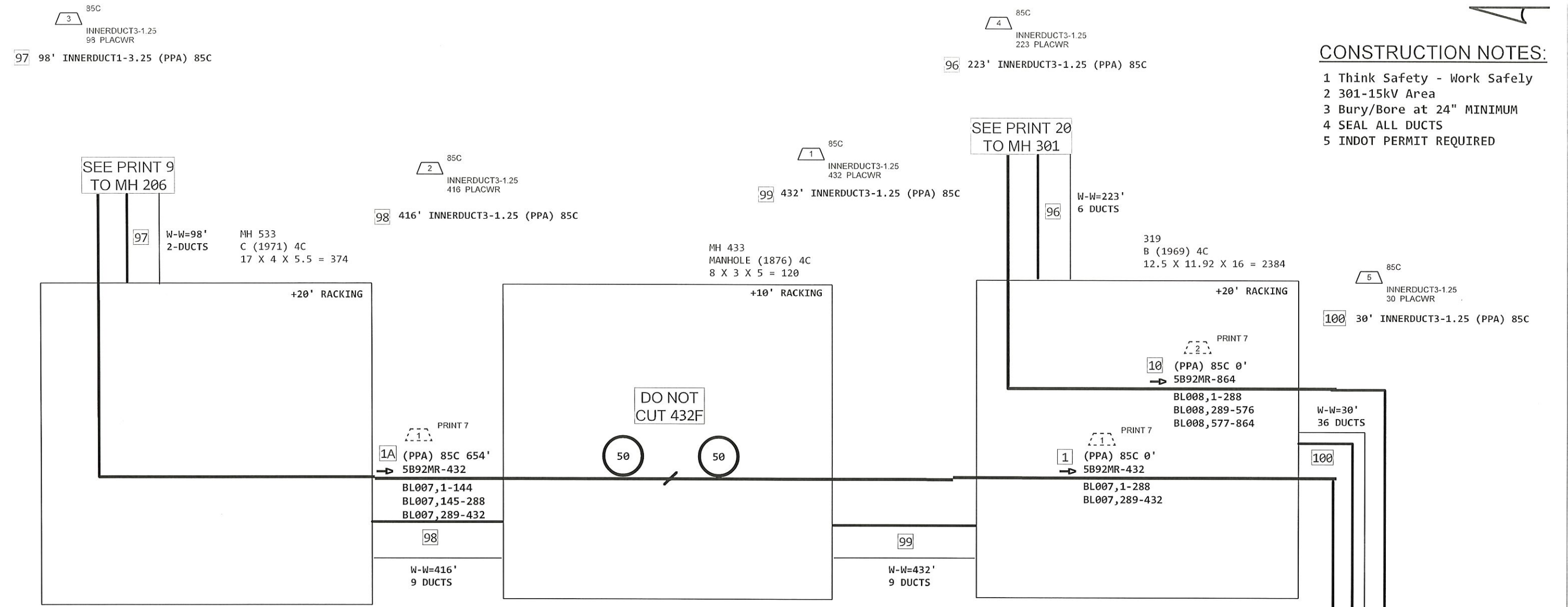
ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 7 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
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- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED



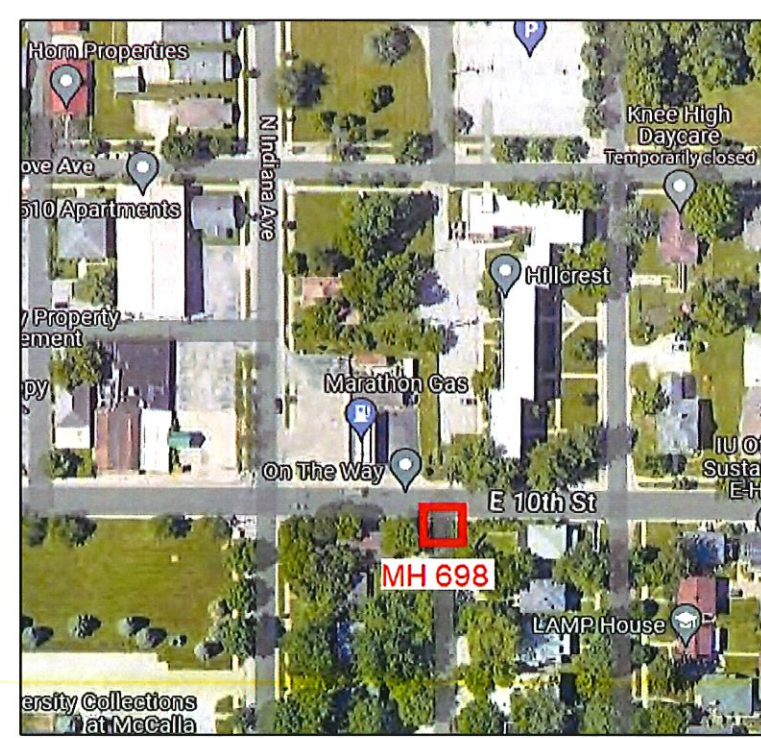
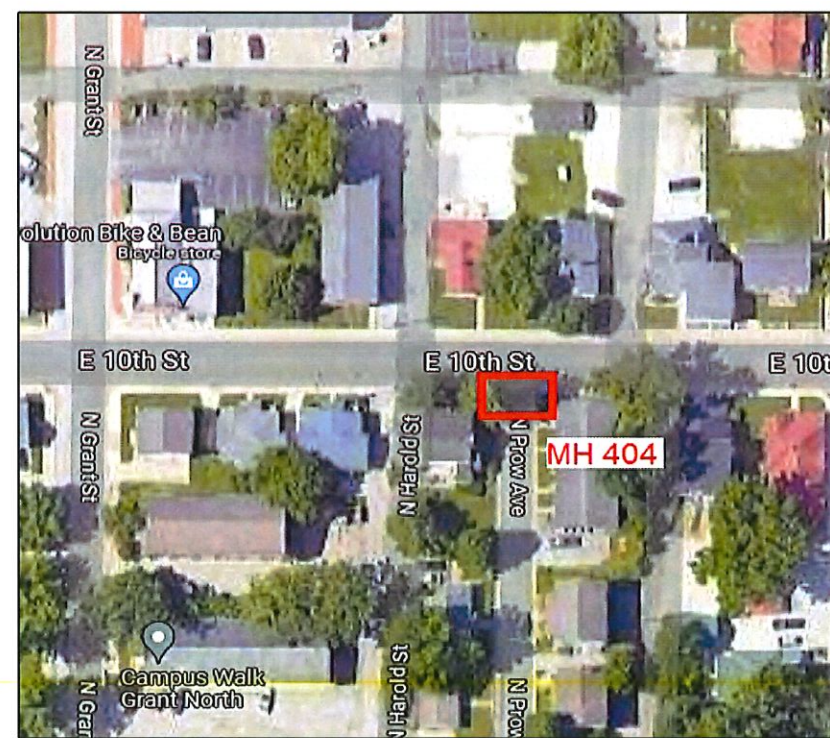
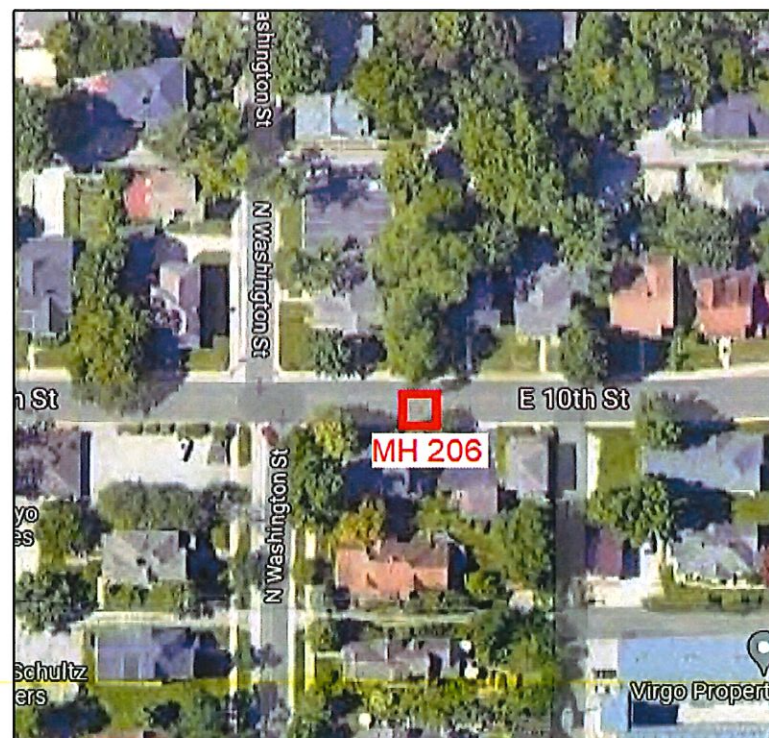
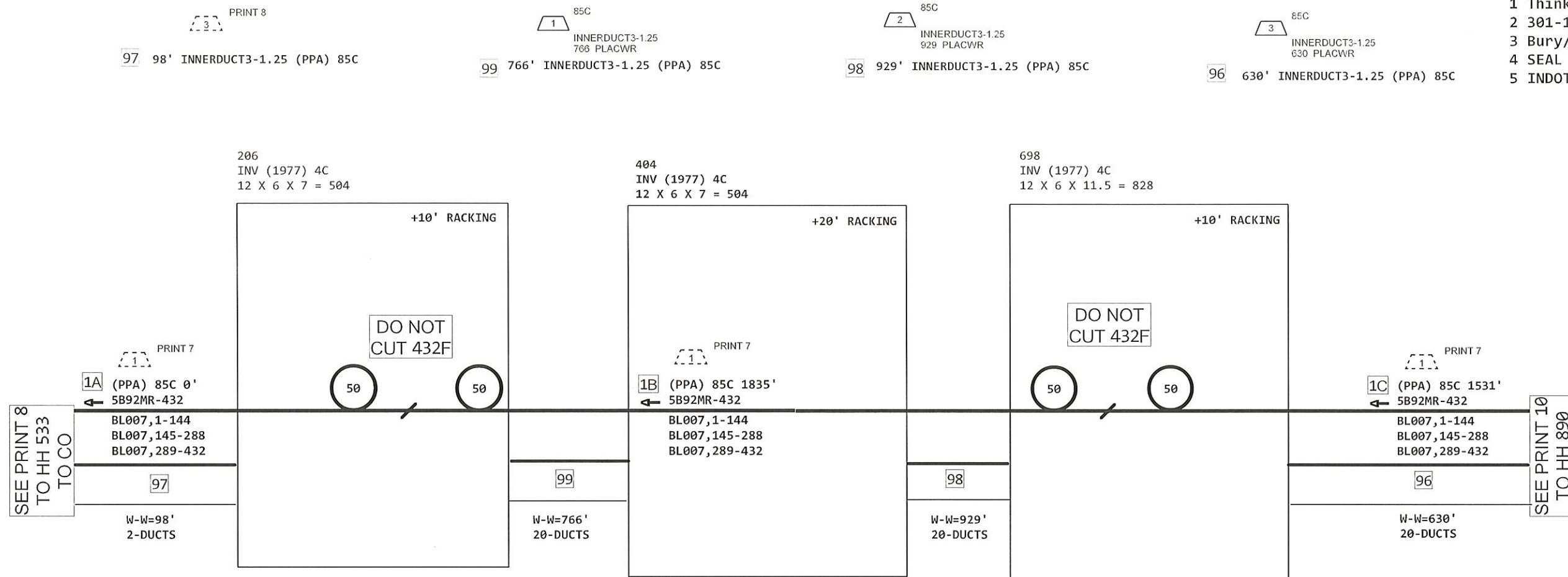
ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7	DATE SVC REQ'D 08/30/2024	
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 8 OF 43	

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ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 9 OF 43	

12 (2023) 85C 100'
 5BQ2MT-072
 LG03, 205-210 NC
 K, 7-12 NC
 <A02M0LB> LG03, 265-280 NC
 L, 29-36 NC
 (L, 37-60) <A02MQK7> BL007, 337-360 NC
 L, 61-72 NC

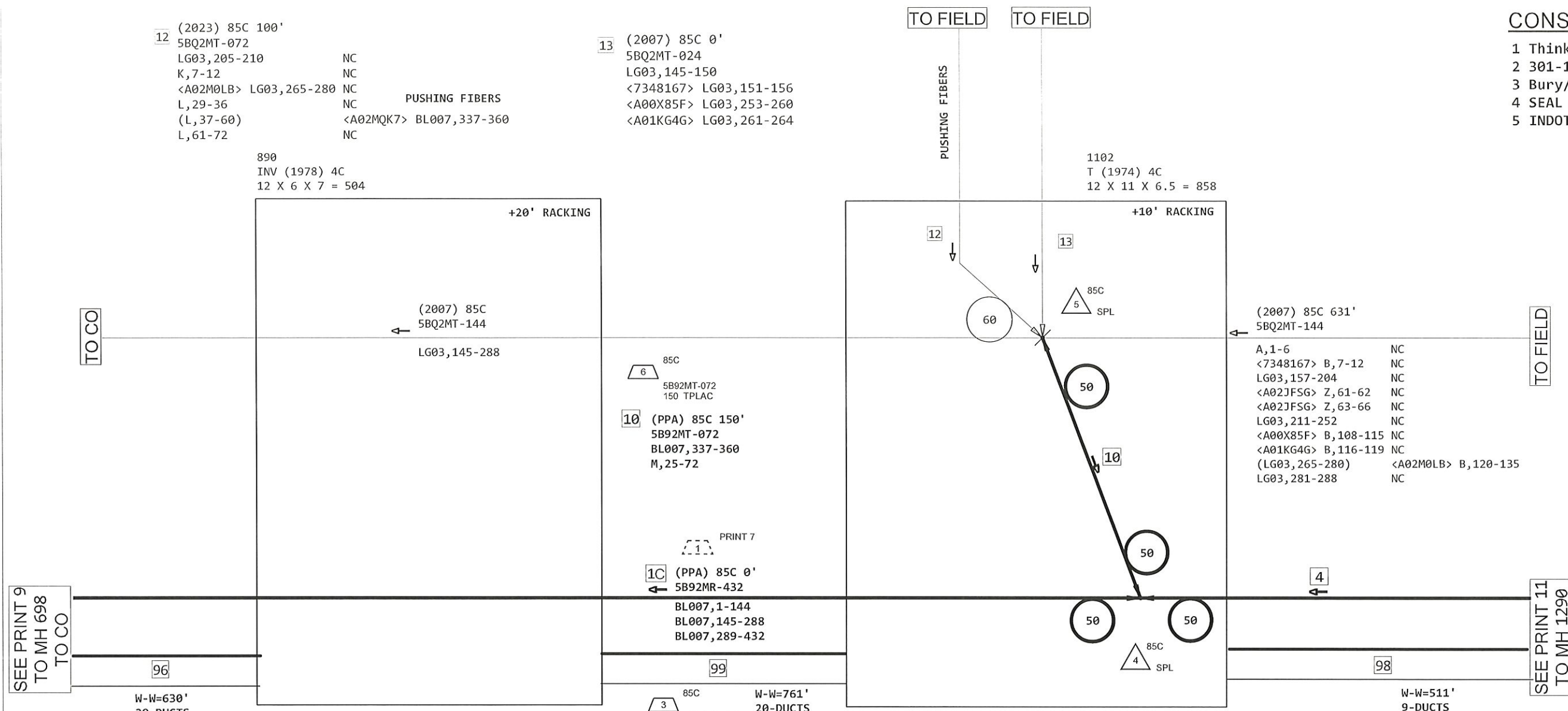
13 (2007) 85C 0'
 5BQ2MT-024
 LG03, 145-150
 <7348167> LG03, 151-156
 <A00X85F> LG03, 253-260
 <A01KG4G> LG03, 261-264

890
 INV (1978) 4C
 12 X 6 X 7 = 504

1102
 T (1974) 4C
 12 X 11 X 6.5 = 858

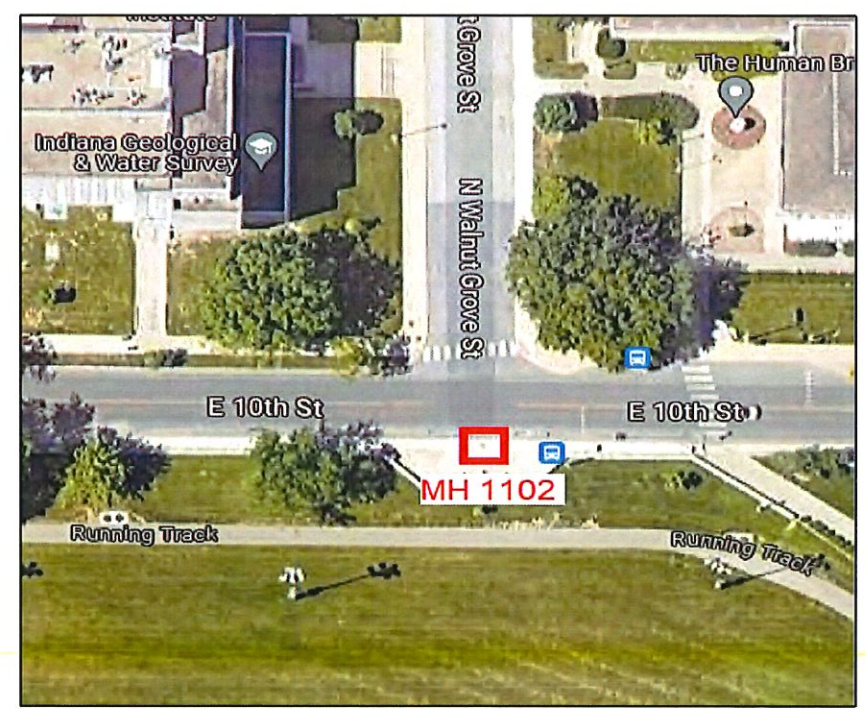
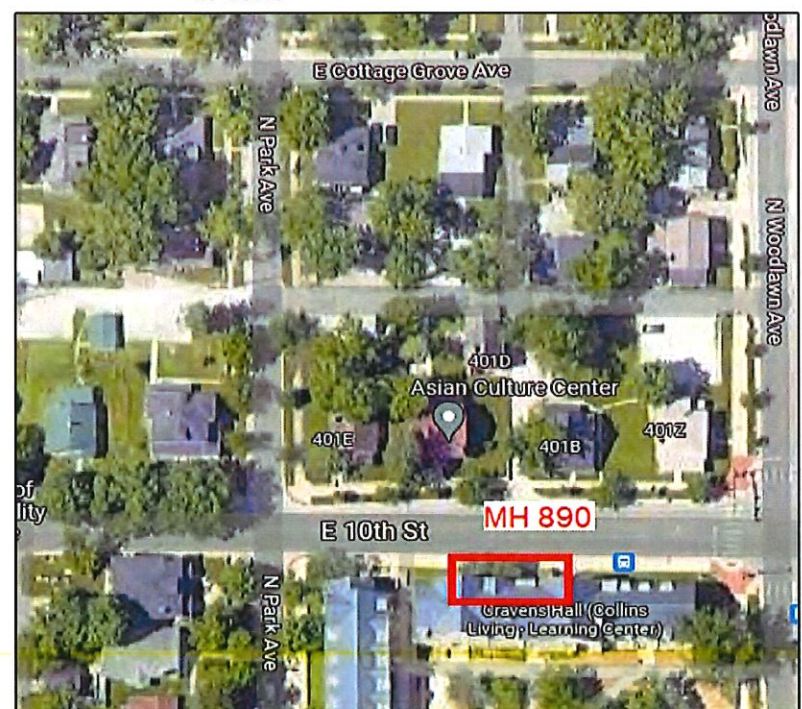
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SEE PRINT 9
 TO MH 698
 TO CO

SEE PRINT 11
 TO MH 1290



6 85C
 5B92MT-072
 150 TPLAC
 10 (PPA) 85C 150'
 5B92MT-072
 BL007, 337-360
 M, 25-72

1C (PPA) 85C 0'
 5B92MR-432
 BL007, 1-144
 BL007, 145-288
 BL007, 289-432

3 85C W-W=761'
 5B92MR-432 20-DUCTS
 4215 IDUC
 4 (PPA) 85C 781'
 5B92MR-432
 BL007, 1-336
 D, 337-360
 BL007, 361-432

1 85C
 INNERDUCT3-1.25
 761 PLACWR
 99 761' INNERDUCT3-1.25" (PPA) 85C

3 85C
 INNERDUCT3-1.25
 761 PLACWR
 96 630' INNERDUCT3-1.25" (PPA) 85C

(2007) 85C 631'
 5BQ2MT-144
 A, 1-6 NC
 <7348167> B, 7-12 NC
 LG03, 157-204 NC
 <A02JFSG> Z, 61-62 NC
 <A02JFSG> Z, 63-66 NC
 LG03, 211-252 NC
 <A00X85F> B, 108-115 NC
 <A01KG4G> B, 116-119 NC
 (LG03, 265-280) <A02M0LB> B, 120-135
 LG03, 281-288 NC

2 85C
 INNERDUCT3-1.25
 511 PLACWR
 98 511' INNERDUCT3-1.25" (PPA) 85C

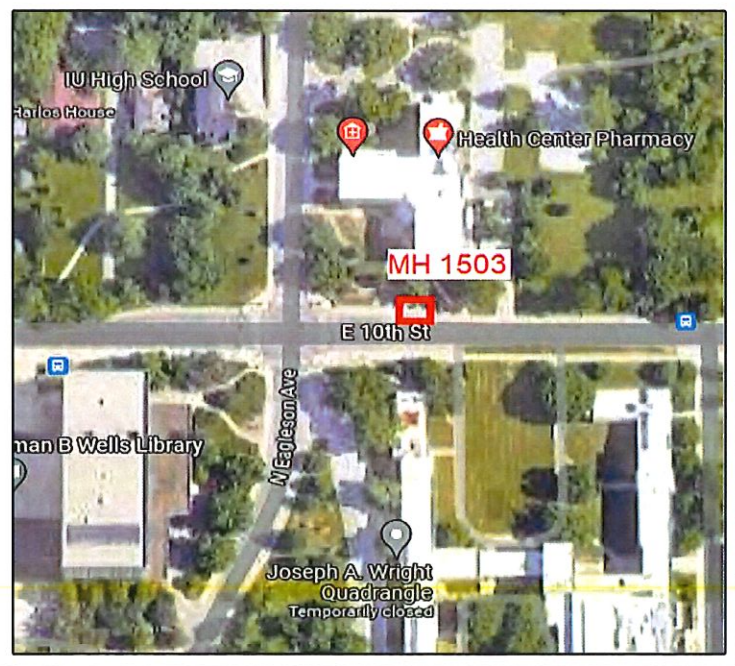
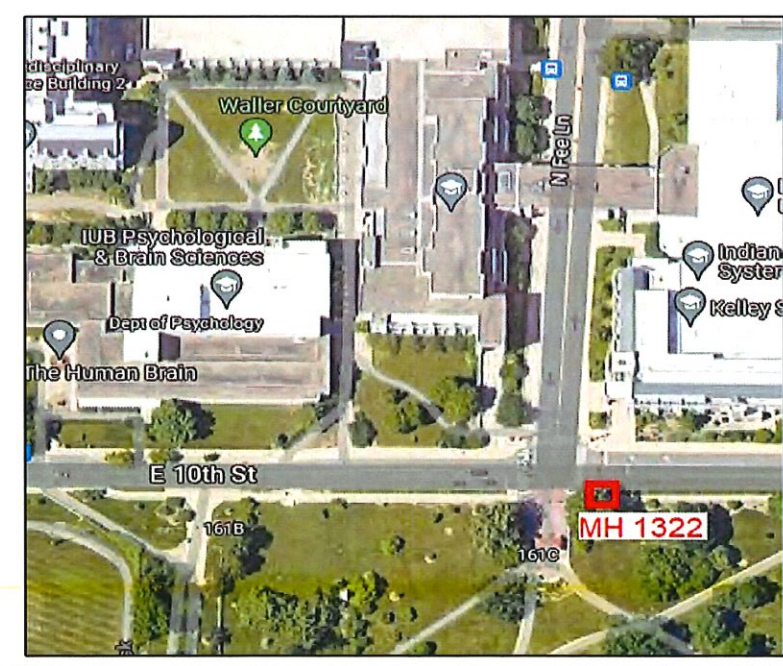
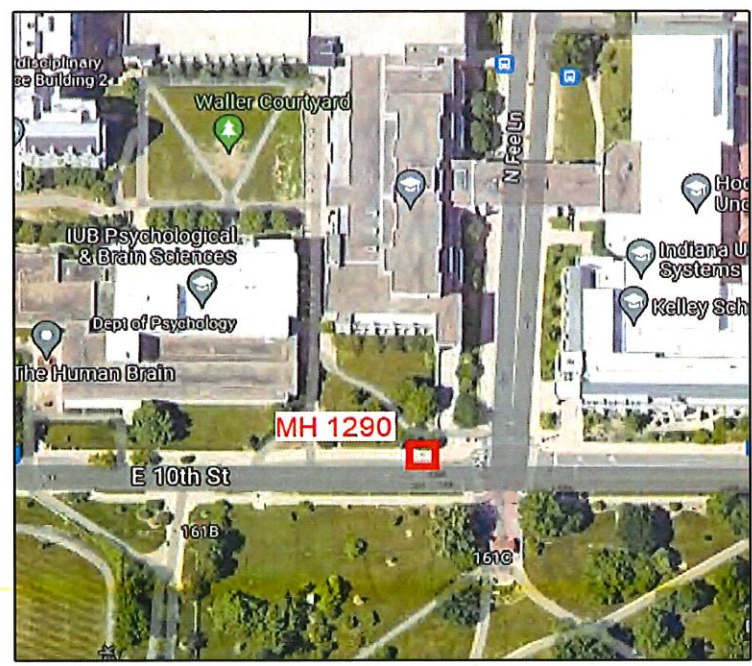
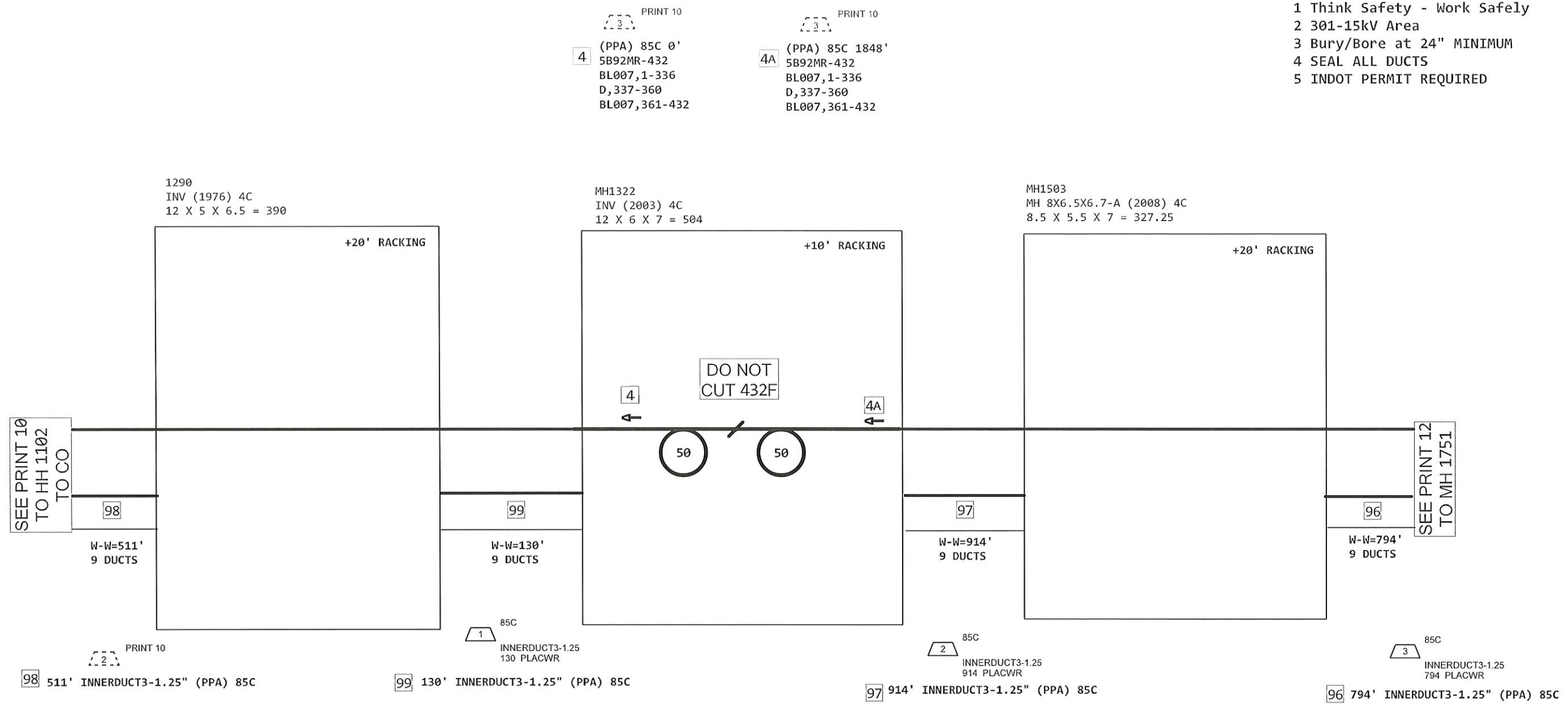
ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7	DATE SVC REQ'D 08/30/2024	
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 10 OF 43	

CONSTRUCTION NOTES:

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ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

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PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 11 OF 43	

CONSTRUCTION NOTES:

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PRINT 11
 96 794' INNERDUCT3-1.25" (PPA) 85C

1 85C
 INNERDUCT3-1.25
 915 PLACWR

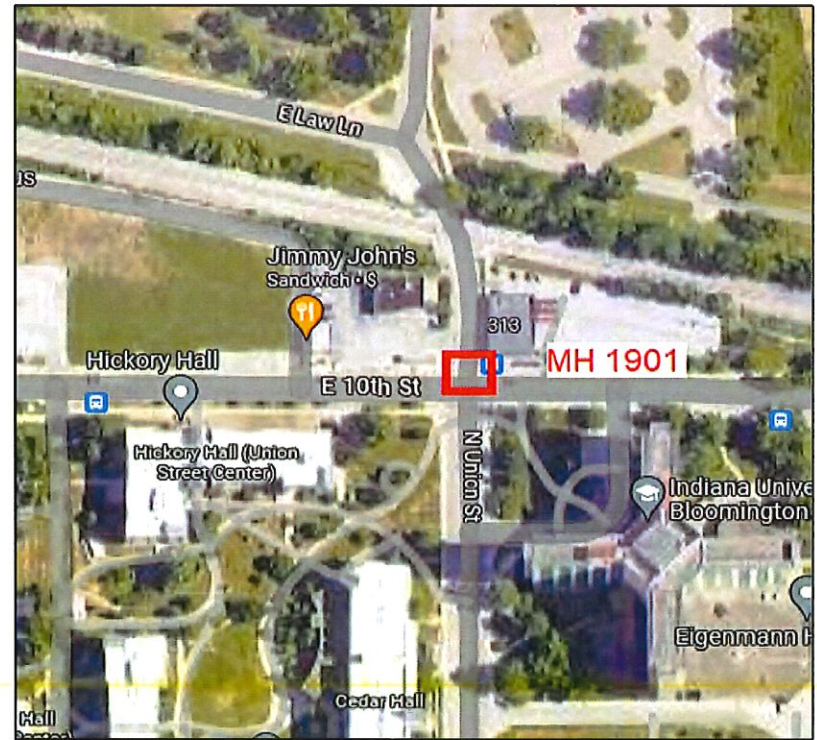
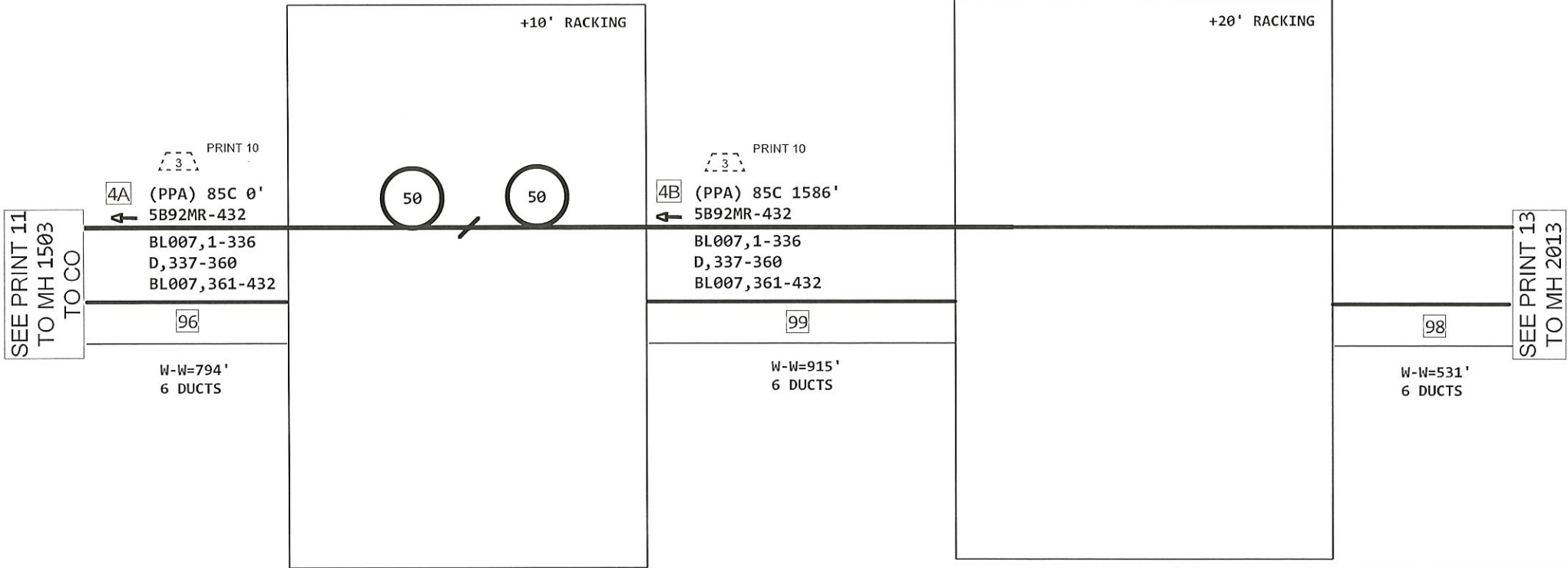
PRINT 10
 99 915' INNERDUCT3-1.25" (PPA) 85C

2 85C
 INNERDUCT3-1.25
 531 PLACWR

PRINT 10
 98 531' INNERDUCT3-1.25" (PPA) 85C

MH1751
 MH 8X6.5X6.7-A (2007) 4C
 8.5 X 5.5 X 7 = 327.25

1901
 A (1959) 4C
 8 X 4 X 5.5 = 176



ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 12 OF 43	

PRINT 12

98 531' INNERDUCT1-1.25 (PPA) 85C

1 85C
INNERDUCT3-1.25
217 PLACWR
99 217' INNERDUCT1-1.25 (PPA) 85C

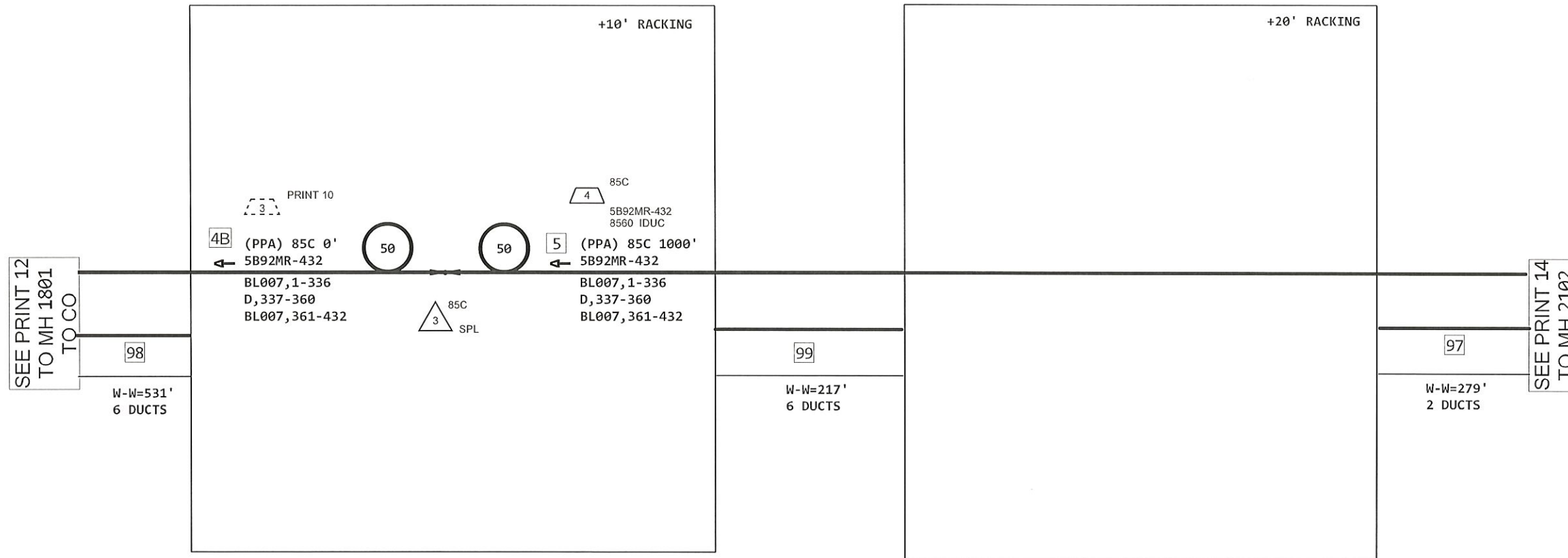
2 85C
INNERDUCT3-1.25
279 PLACWR
97 279' INNERDUCT1-1.25 (PPA) 85C

2013
A (1959) 4C
8 X 4 X 5.5 = 176

2101
L (1960) 4C
8 X 4 X .5 = 16

CONSTRUCTION NOTES:

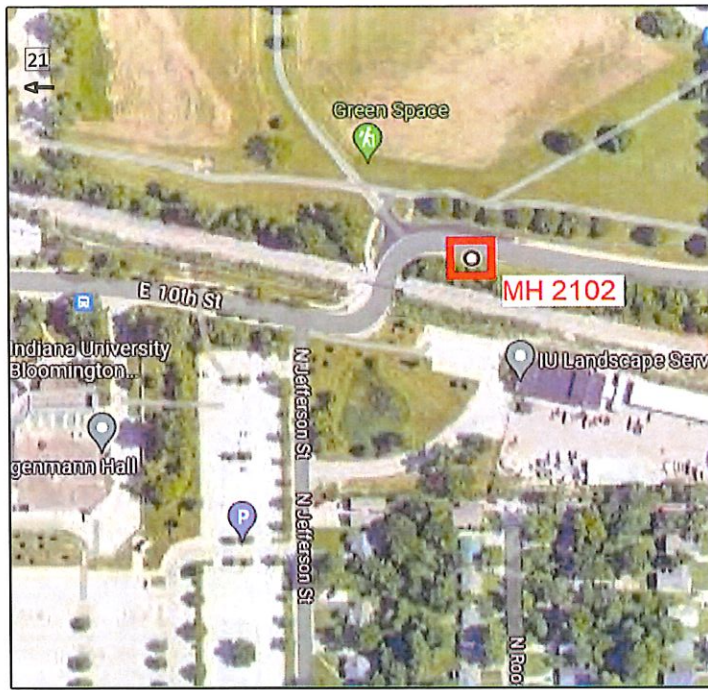
- 1 Think Safety - Work Safely
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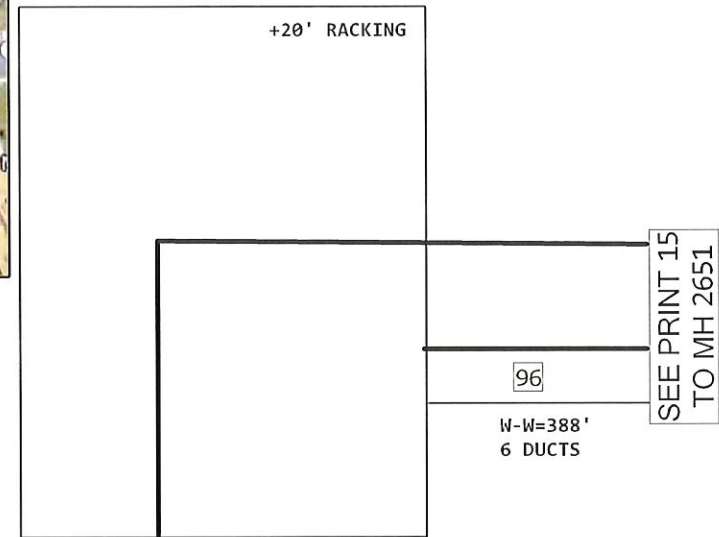
ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
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PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 13 OF 43	



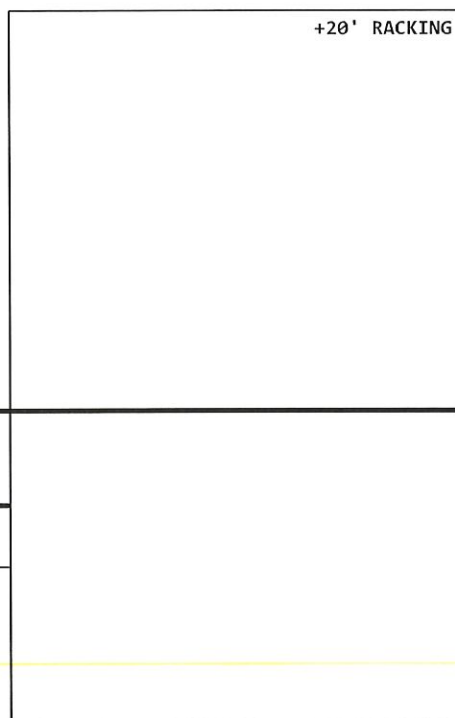
2601
MH A 10X6X7 (2011) 4C
10 X 6 X 7 = 420



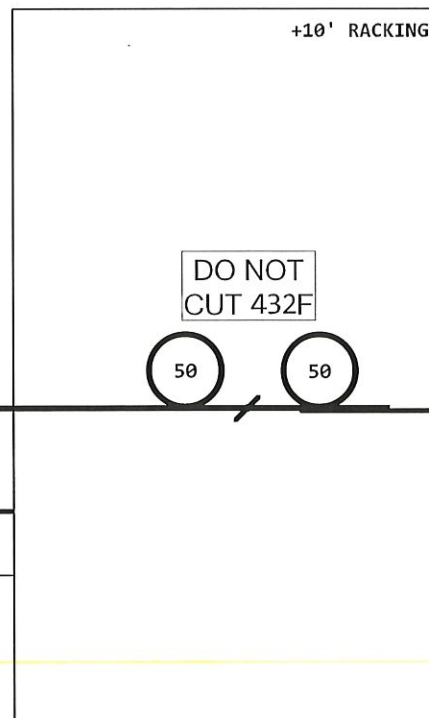
PRINT 13
97 279' INNERDUCT3-1.25" (PPA) 85C

85C
1
INNERDUCT3-1.25
344 PLACWR
99 344' INNERDUCT3-1.25" (PPA) 85C

2102
A (1965) 4C
8.5 X 4.5 X 5.5 = 210.38



2200
MH A 10X6X7 (2011) 4C
10 X 6 X 7 = 420



5A ↓

85C
3
INNERDUCT3-1.25
388 PLACWR
96 388' INNERDUCT3-1.25" (PPA) 85C

85C
2
INNERDUCT3-1.25
818 PLACWR
98 818' INNERDUCT3-1.25" (PPA) 85C

CONSTRUCTION NOTES:

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ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 14 OF 43	

SEE PRINT 13
TO MH 2101
TO CO

97
W-W=279'
2 DUCTS

PRINT 13
4
(PPA) 85C 0'
5B92MR-432
BL007,1-336
D,337-360
BL007,361-432

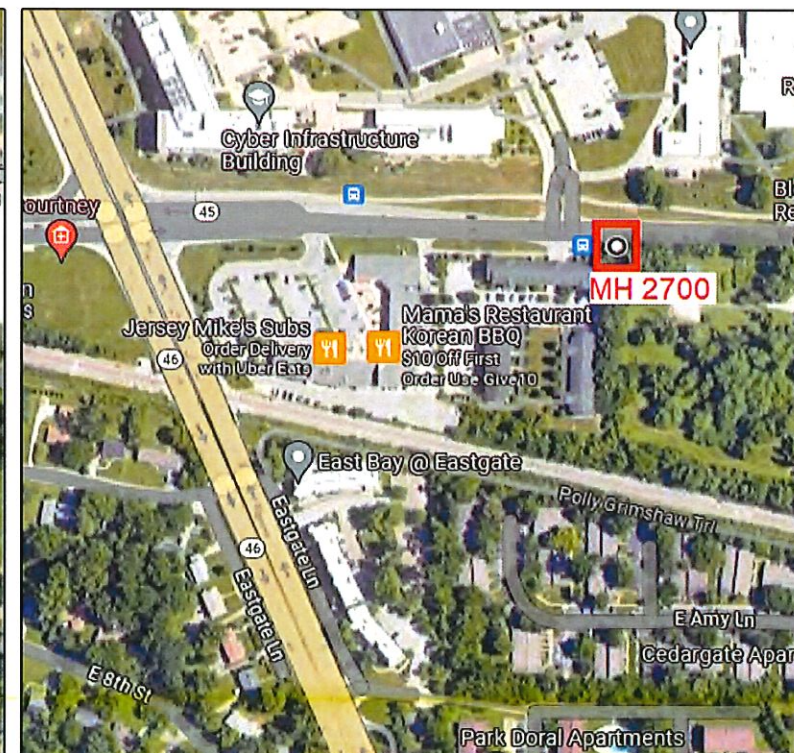
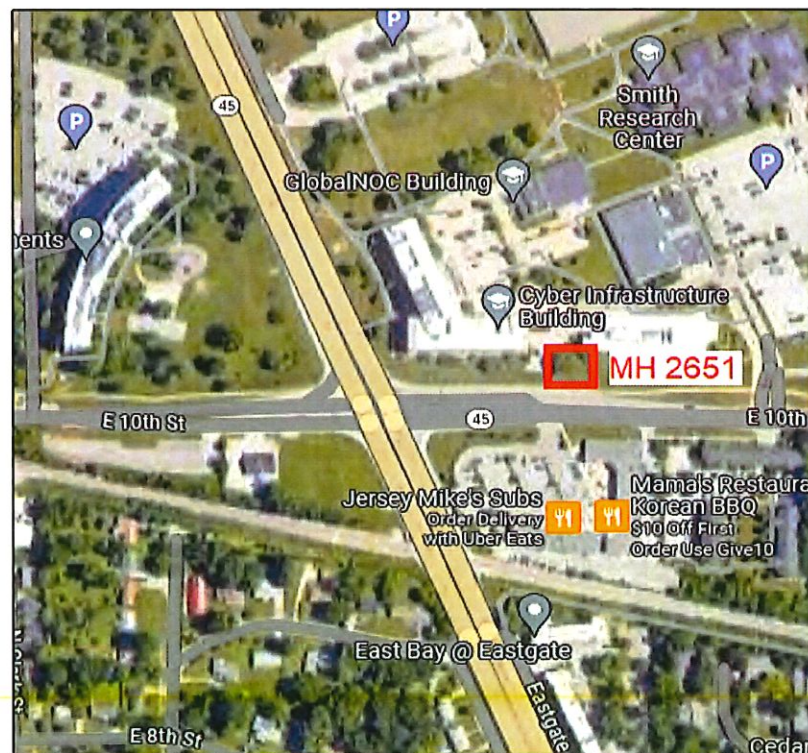
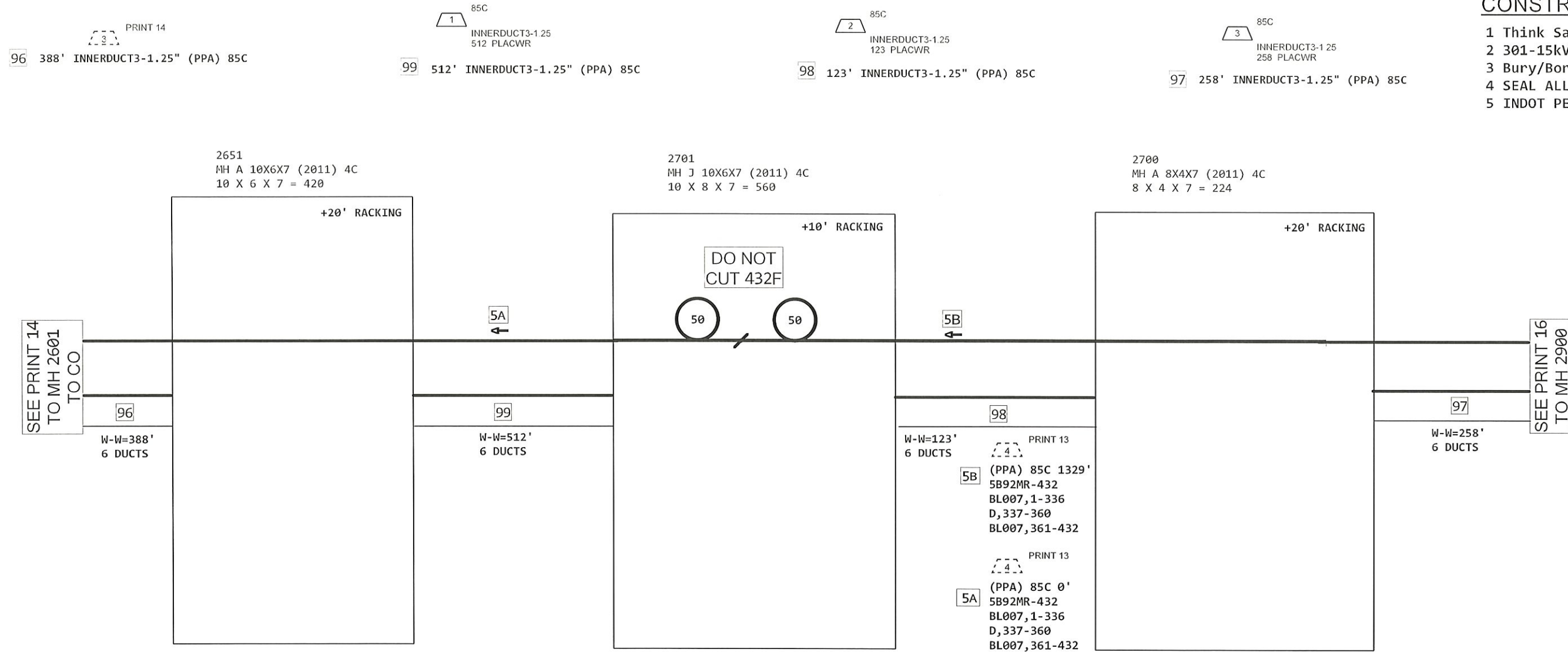
99
W-W=344'
6 DUCTS

PRINT 13
4
(PPA) 85C 1878'
5B92MR-432
BL007,1-336
D,337-360
BL007,361-432

5A
W-W=818'
6 DUCTS

CONSTRUCTION NOTES:

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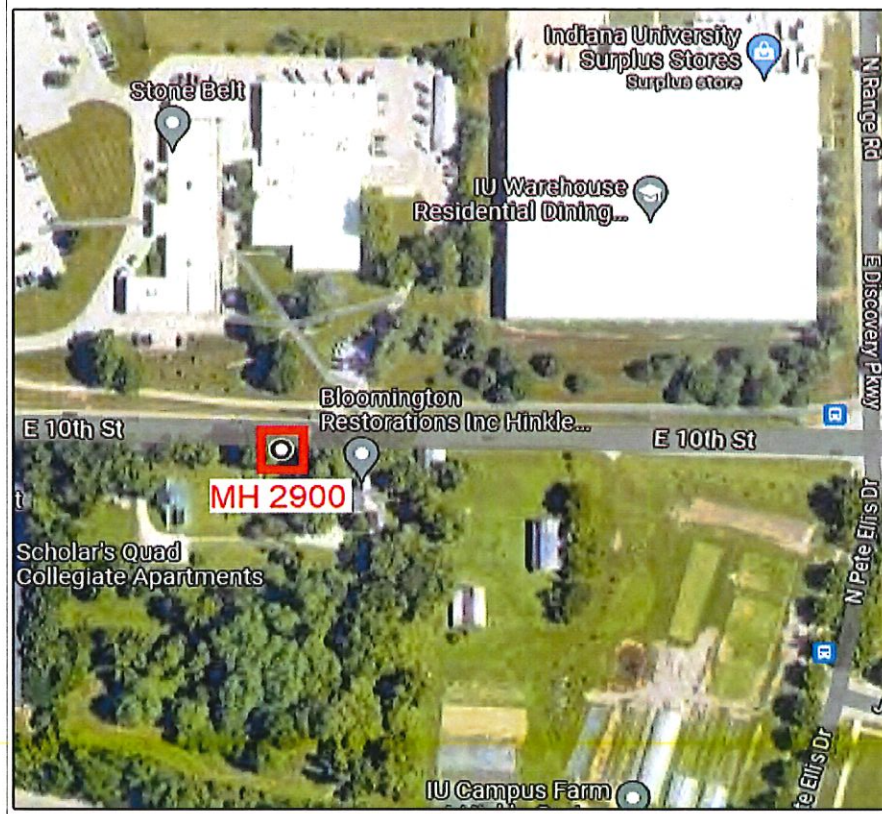
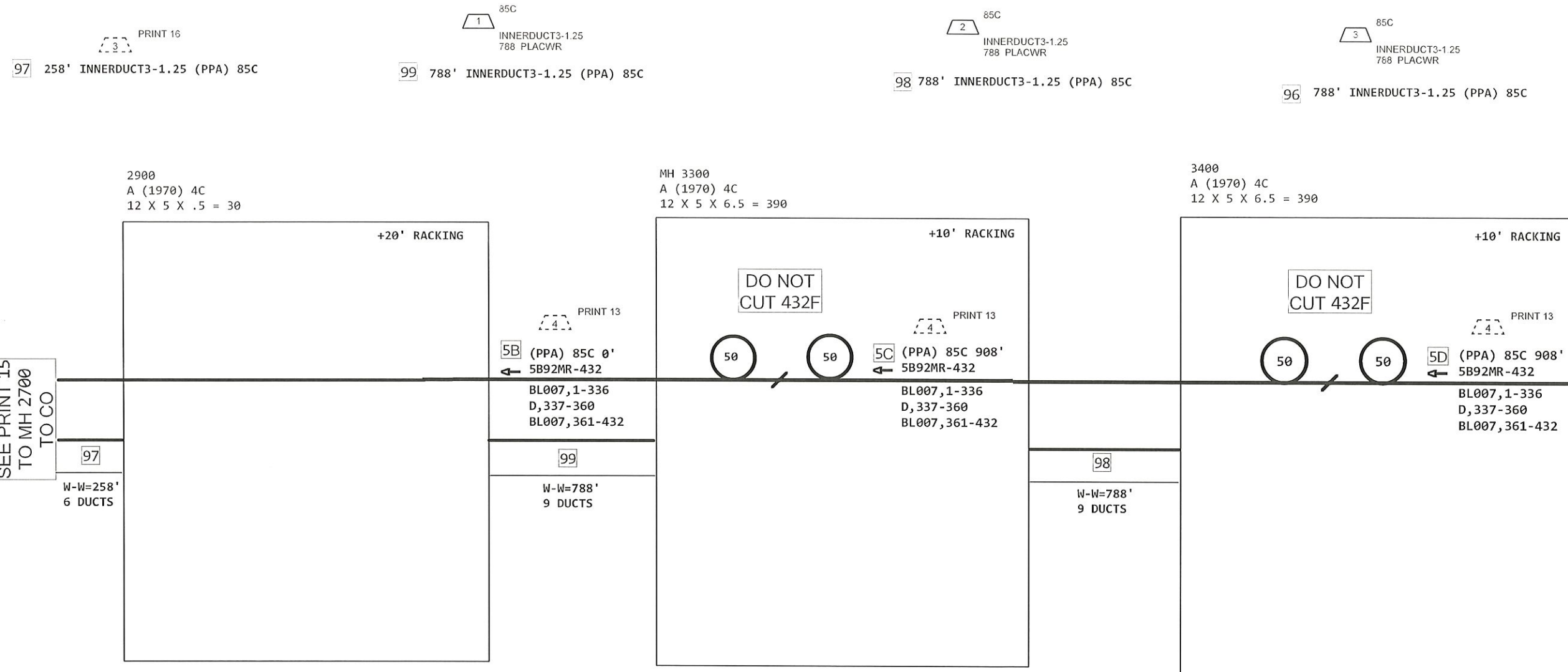
ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

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PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 15 OF 43	

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ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC		
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A02MQK7	08/30/2024	
NPANNX	GEO LOC	CLLI
812332	N33171	bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 16 OF 43	

PRINT 16

96 788' INNERDUCT3-1.25 (PPA) 85C

1 85C
INNERDUCT3-1.25
756 PLACWR

99 756' INNERDUCT3-1.25 (PPA) 85C

2 85C
INNERDUCT3-1.25
819 PLACWR

98 819' INNERDUCT3-1.25 (PPA) 85C

3 85C
INNERDUCT3-1.25
702 PLACWR

97 702' INNERDUCT3-1.25 (PPA) 85C

3700
A (1970) 4C
12 X 5 X 6.5 = 390

3900
A (1970) 4C
12 X 6 X 9.67 = 696.24

4012
A (1970) 4C
12 X 5 X 6.5 = 390

+10' RACKING

+10' RACKING

+20' RACKING

DO NOT CUT 432F

DO NOT CUT 432F

PRINT 13
5D (PPA) 85C 0'
5B92MR-432

50

50

PRINT 13
5E (PPA) 85C 876'
5B92MR-432

50

50

PRINT 13
5F (PPA) 85C 1661'
5B92MR-432

BL007, 1-336
D, 337-360
BL007, 361-432

BL007, 1-336
D, 337-360
BL007, 361-432

BL007, 1-336
D, 337-360
BL007, 361-432

SEE PRINT 16 TO MH 3400 TO CO

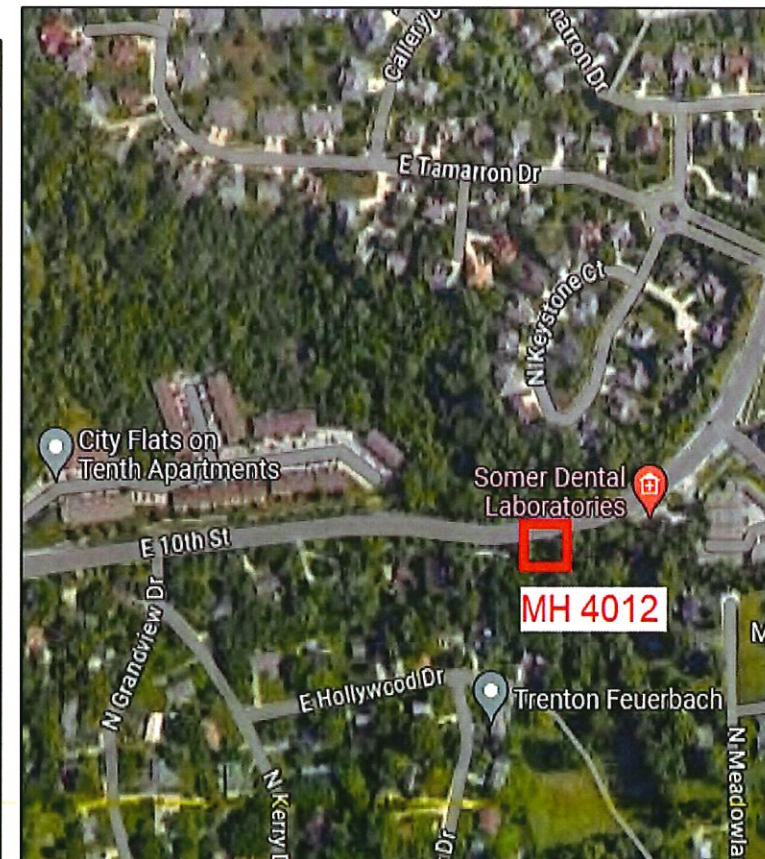
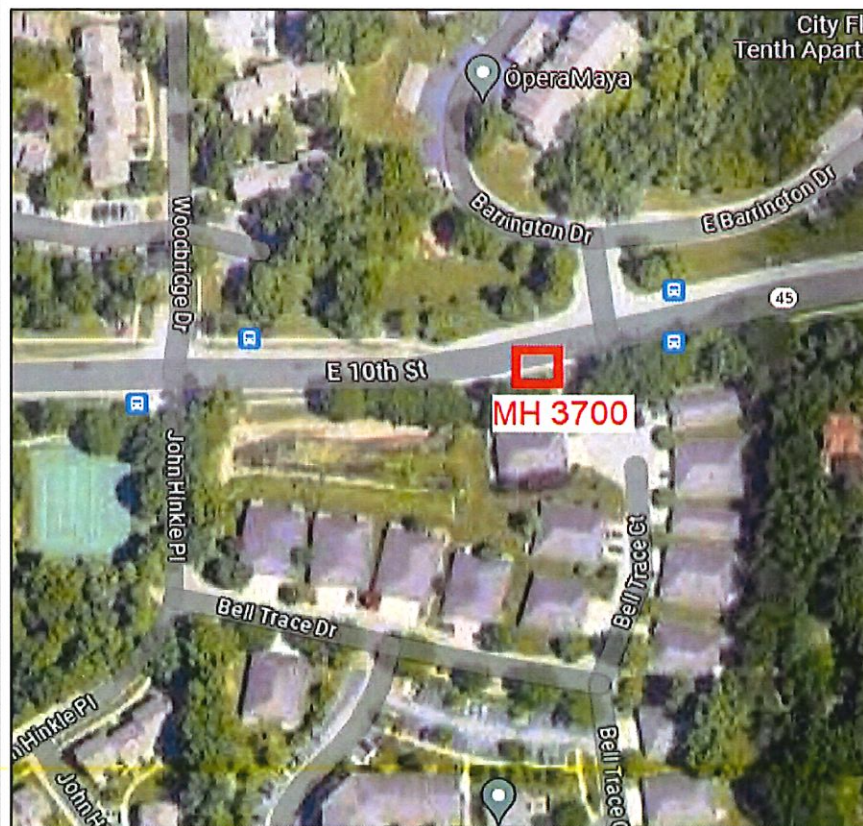
SEE PRINT 16 TO MH 4080

96
W-W=788'
9 DUCTS

99
W-W=756'
9 DUCTS

98
W-W=819'
9 DUCTS

97
W-W=702'
9 DUCTS



CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7	DATE SVC REQ'D 08/30/2024
-----------------------------	------------------------------

NPANNX 812332	GEO LOC N33171	CLLI bltnin01
------------------	-------------------	------------------

PRIMARY ENGR.: OWENS, JAMES R

ENGR. ID: JO3792	PERMIT REQ'D: Y
------------------	-----------------

PHONE #: 8123344585	PRINT 17 OF 43
---------------------	----------------

10 (2012) 85C 1010'
5BQ2MT-072

97 702' INNERDUCT3-1.25 (PPA) 85C

4080
A (1970) 4C
12 X 6 X 6.5 = 468

99 859' INNERDUCT3-1.25 (PPA) 85C

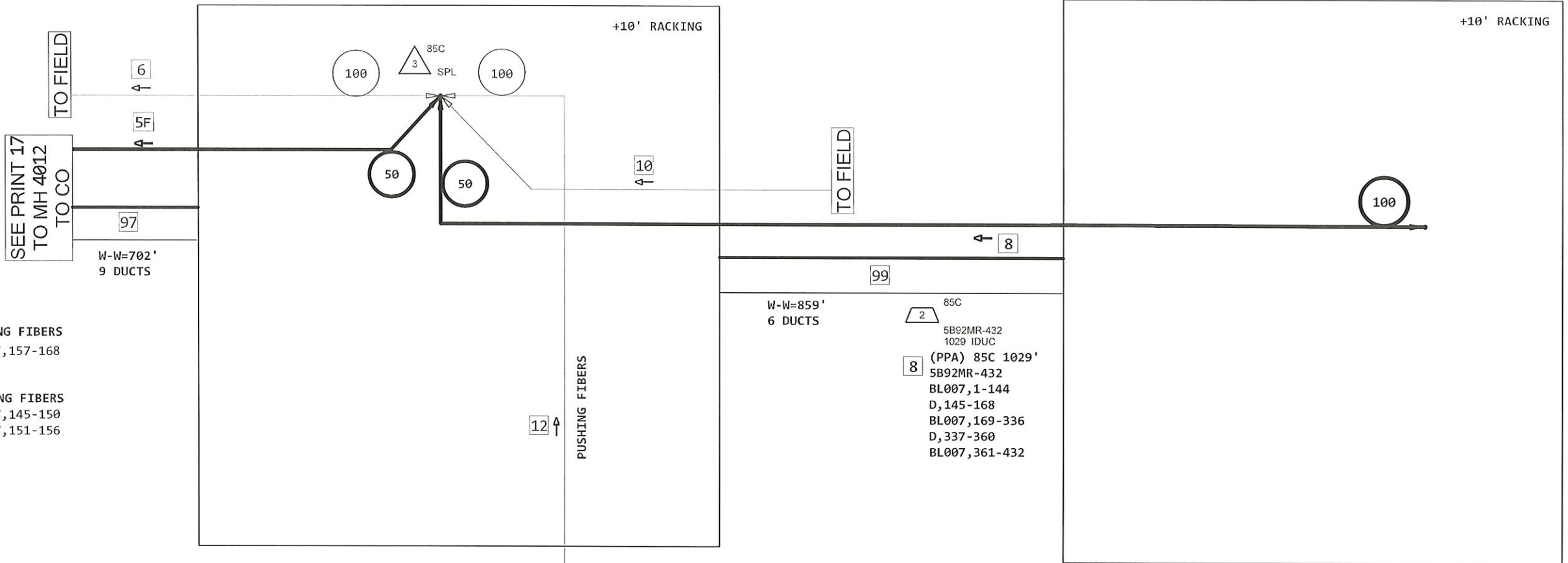
4221
A (1992) 4C
12 X 6 X 7 = 504

- C, 1-24 NC
- <8797654> Z, 121-132 NC
- LG03, 181-184 NC
- LG03, 185-192 NC
- <8971118> C, 49-50 NC
- <A00CPU6> C, 51-52 NC
- <9470532> P, 197-200 NC
- <9669557> Z, 201-204 NC
- <A02JFSG> Z, 61-62 NC
- <A02JFSG> Z, 63-66 NC
- (LG03, 211-212) <A02LEQC> E, 67-68 NC
- LG03, 213-216 NC

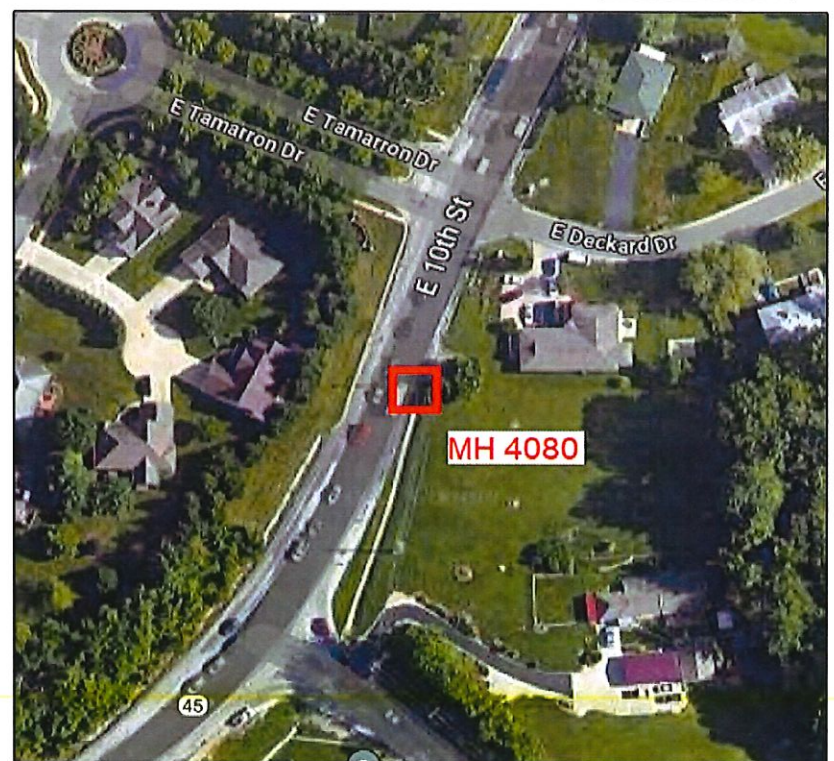
- 12 (2007) 822C 0'
5BQ2MT-072
- LG03, 217-228 NC PUSHING FIBERS
 - (A, 85-96) <A02MQK7> BL007, 157-168
 - G, 25-32 NC
 - G, 33-36 NC
 - G, 37-48 NC PUSHING FIBERS
 - (B, 120-125) <A02MQK7> BL007, 145-150
 - (B, 126-131) <A02MQK7> BL007, 151-156
 - G, 61-62 NC
 - B, 134-135 NC
 - LG03, 281-288 NC

- 5F (PPA) 85C 0'
5B92MR-432
- BL007, 1-336
 - D, 337-360
 - BL007, 361-432

- 6 (2007) 85C 835'
5BQ2MT-144
- <6419055> A, 1-6 NC
 - <7348167> B, 7-12 NC
 - <8632891> B, 13-18 NC
 - LG03, 163-168 NC
 - <8797654> Z, 121-132 NC
 - LG03, 181-184 NC
 - LG03, 185-192 NC
 - <8971118> C, 49-50 NC
 - <A00CPU6> C, 51-52 NC
 - <9470532> P, 197-200 NC
 - <9669557> Z, 201-204 NC
 - <A02JFSG> Z, 61-62 NC
 - <A02JFSG> Z, 63-66 NC
 - (LG03, 211-212) <A02LEQC> E, 67-68 NC
 - LG03, 213-228 NC
 - <A00EC85> A, 85-96 NC
 - <A00SD05> Z, 241-246 NC
 - <A02K3F4> Z, 247-248 NC
 - <A02M68D> R, 249-252 NC
 - <A00X85F> B, 108-115 NC
 - <A01K64G> B, 116-119 NC
 - (LG03, 265-280) <A02M0LB> B, 120-135 NC
 - LG03, 281-288 NC



SEE PRINT 19
TO HH 620



CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

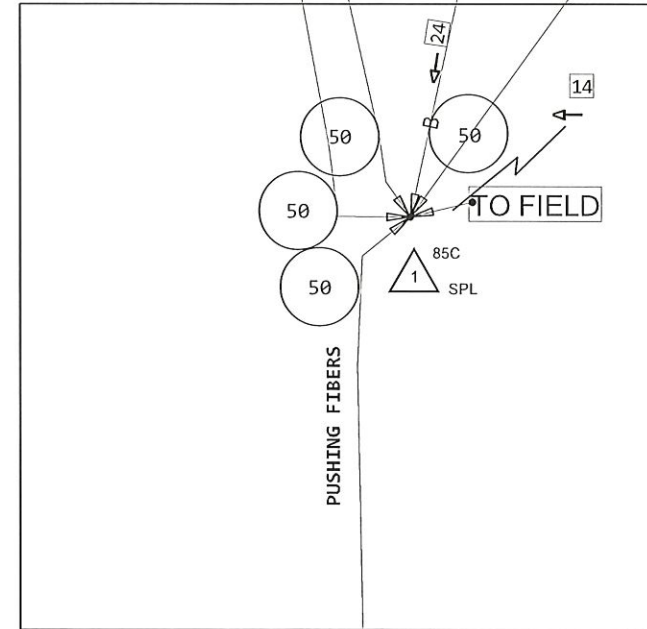
ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC		
PROJECT # A02MQK7	DATE SVC REQ'D 08/30/2024	
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 18 OF 43	

SEE PRINT 18
TO MH 4080
TO CO

(2007) 822C 1410'
5BQ2MT-072
LG03, 217-228 NC
(A, 85-96) <A02MQK7> BL007, 157-168
G, 25-32 NC
G, 33-36 NC
G, 37-48 NC
(B, 120-125) <A02MQK7> BL007, 145-150
(B, 126-131) <A02MQK7> BL007, 151-156
G, 61-62 NC
B, 134-135 NC
LG03, 281-288 NC

BLTNINJ0090
HH 620
INV (2000) 4C
30 X 48 X 36 = 51840



10 (2017) 85C 85'
5BQ2MT-144
LG03, 217-220 NC
<A0183WR> LG03, 221-222 NC
<A01MMXZ> LG03, 223-226 NC
(R, 11-11) <A02LGP5> LG03, 227-227 NC
R, 12-144 NC

12 (2000) 822C 1260'
34W2LT-024
LG03, 85-96
<6175962> LG03, 83-84
<6343338> LG03, 61-62
<A0211G3> D, 17-18
D, 19-24

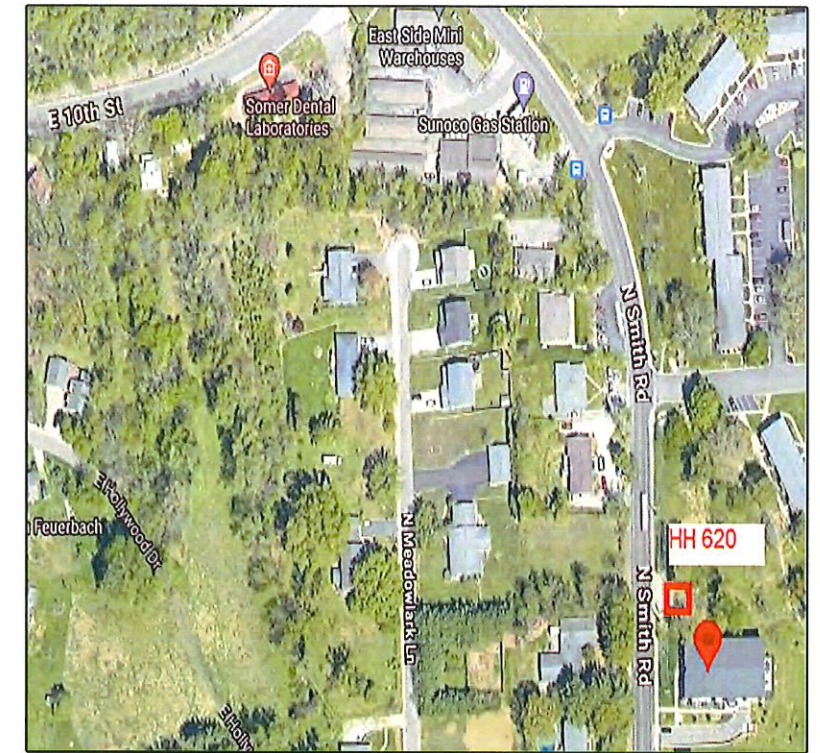
(2000) 845C 100' 14
34W2BT-SC-24
LG03, 85-88
<7491884> D, 5-6
D, 6-7
LG03, 93-96
C, 13-14
D, 15-18
D, 19-24

72 (2007) 822C 620'
5BQ2MT-SC-024
PUSHING FIBERS
(<A02M0LB> B, 126-131) <A02MQK7> BL007, 151-156
<A02M0LB> B, 132-133 NC
LG03, 93-96 NC
LG03, 83-84 NC
G, 61-62 NC
D, 17-18 NC
LG03, 283-288 NC

24 (2007) 845C 100'
5BQ2MT24-100
LG03, 91-92
<7491884> LG03, 89-90
C, 5-24

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED



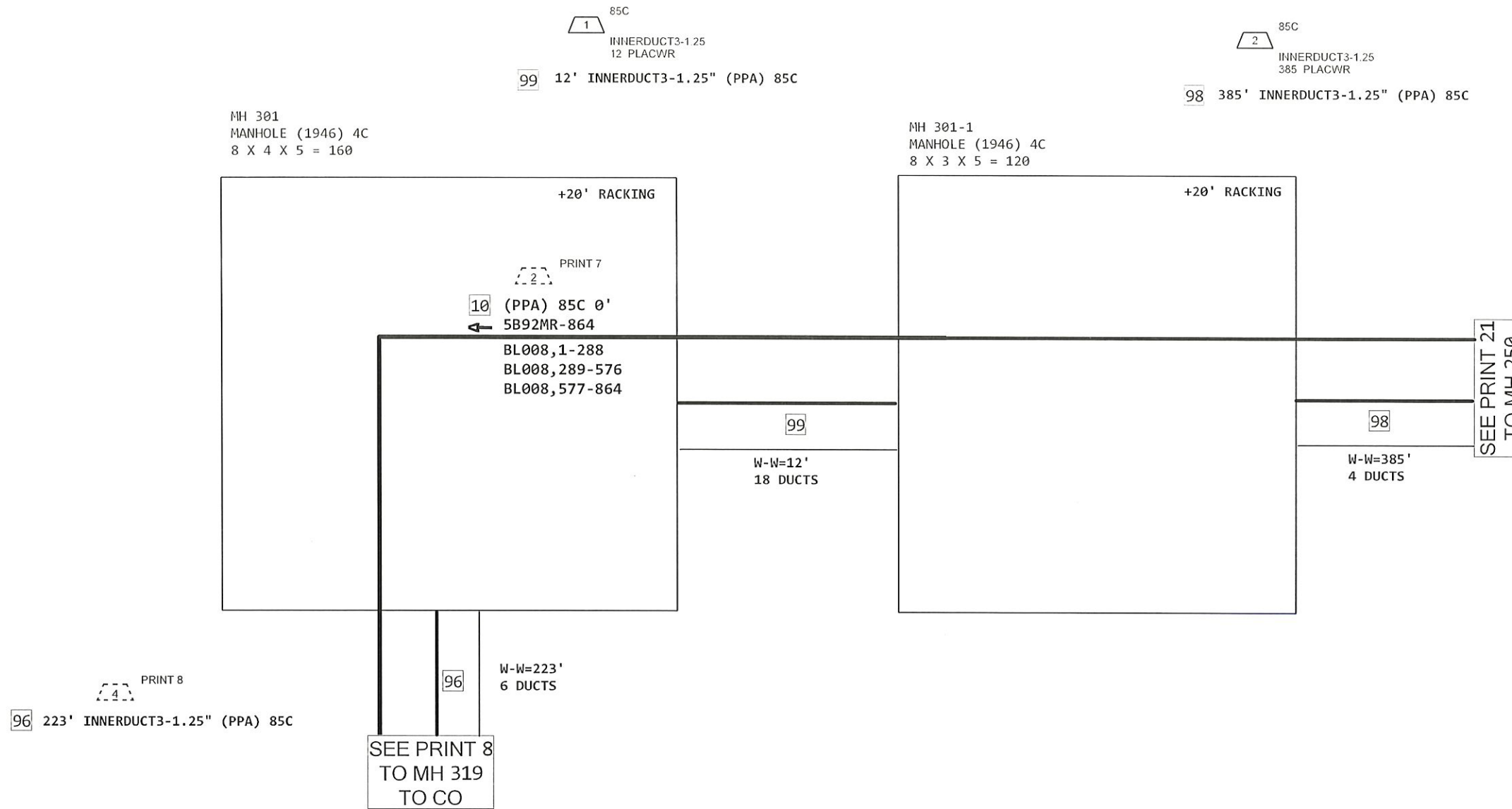
ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 19 OF 43	

CONSTRUCTION NOTES:

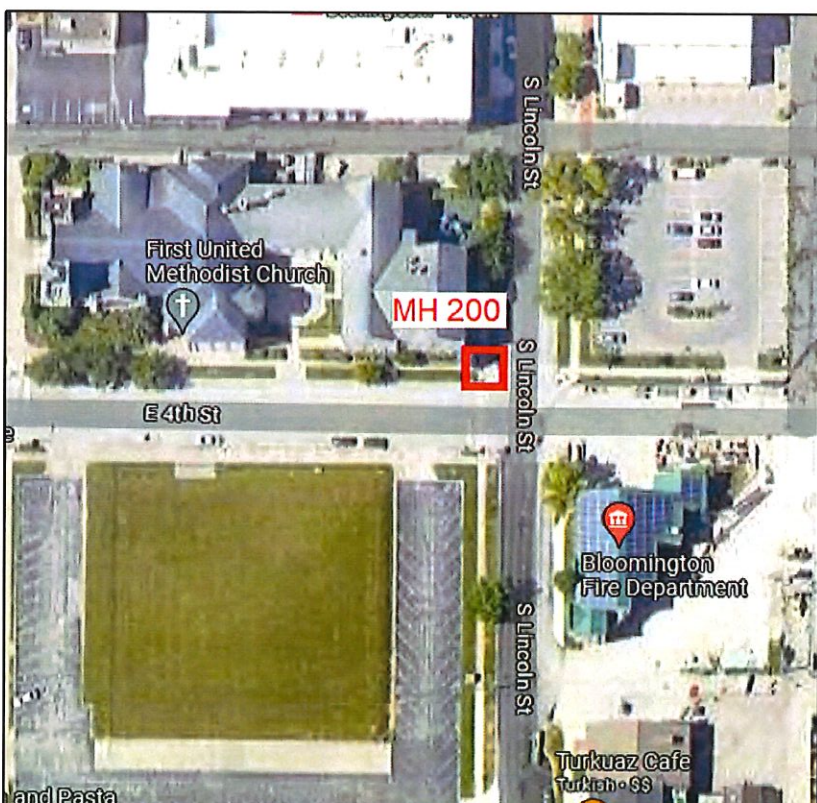
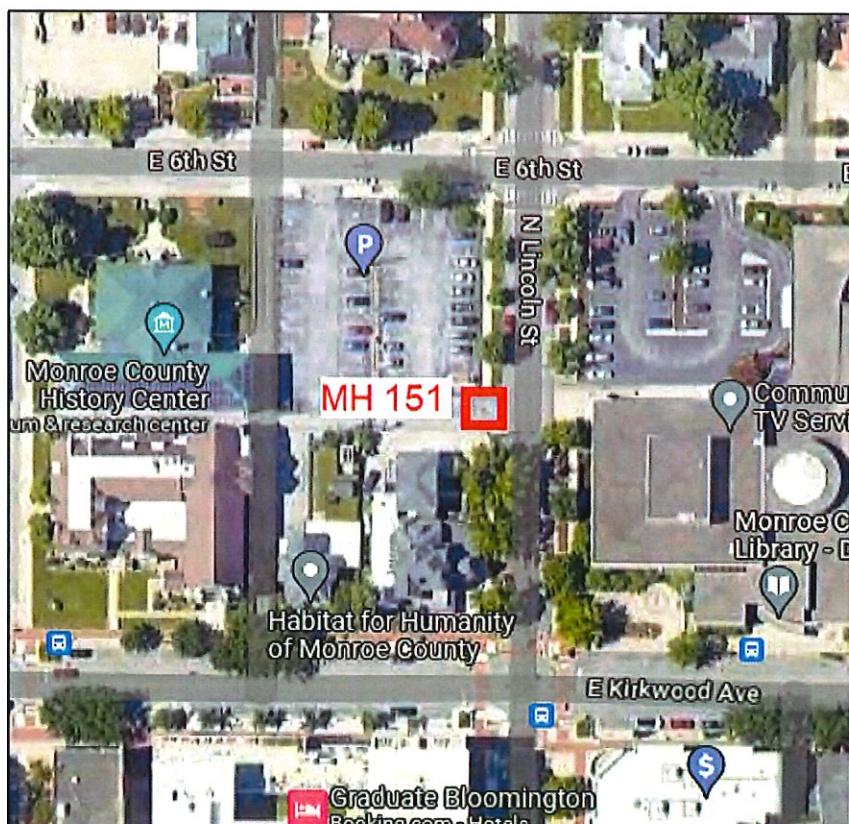
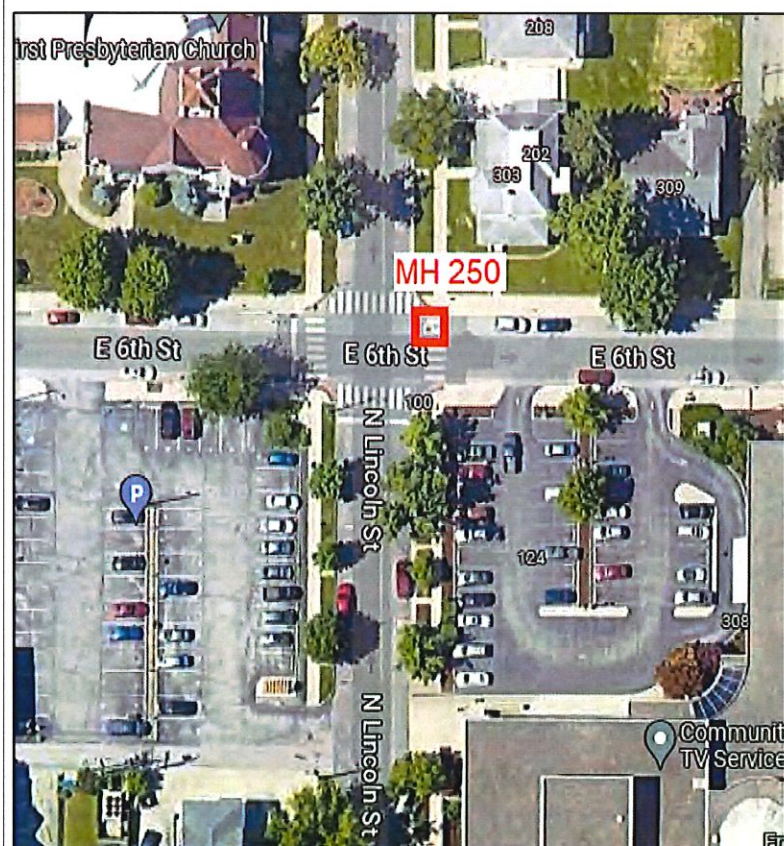
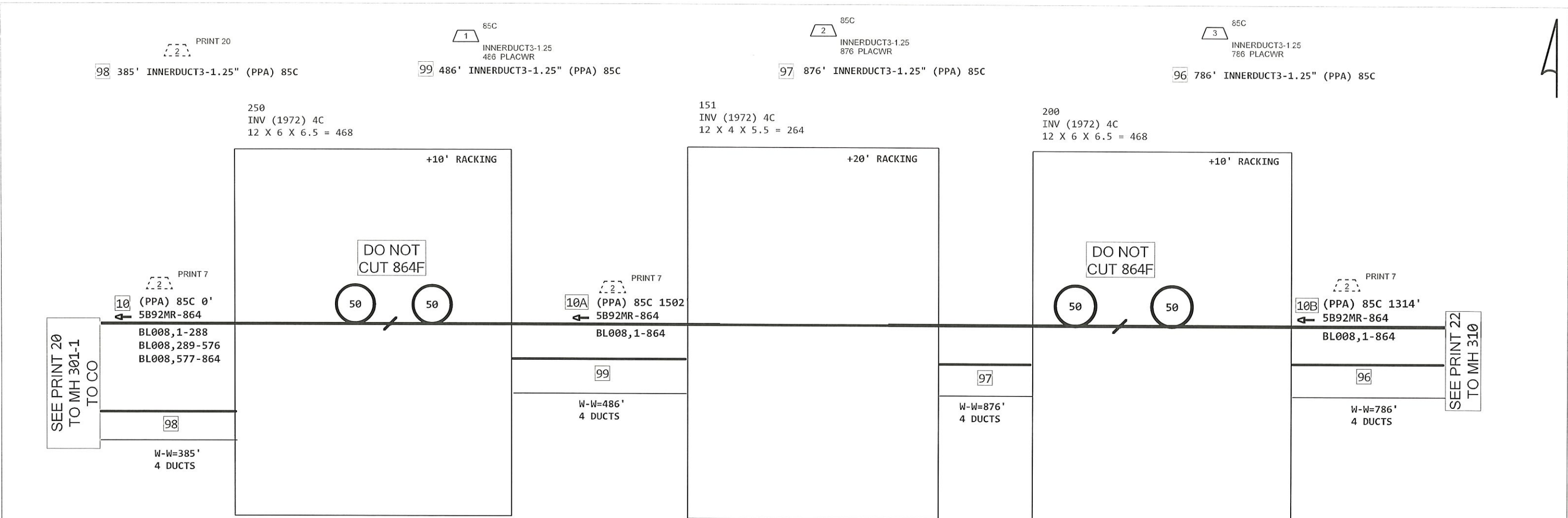
- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED



ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 20 OF 43	



CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7	DATE SVC REQ'D 08/30/2024	
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 21 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

4

CONSTRUCTION NOTE:
PROJECT DEPENDENT UPON
COMPLETION OF UT A02KCWA
FOR FIBER PUSH

12 (2007) 85C 150'
5BQ2MT-072

(BL002,121-124)	<A029ZNG> B,121-124	NC
<A02M63Y> Z,125-126		NC
<A02M63Y> Z,127-128		NC
BL002,129-144		NC
<A01S9RM> C,313-324		NC
(<A01S9RM> C,325-336)		NC
BL002,337-360		NC
	<A02KCHA> BL002,325-336	NC

14 (2008) 845C 0'
5BQ2MT-024

<A01EQ79> BL002,337-348	NC
(C,13-16)	<9470531> BL002,349-352
BL002,353-354	NC
BL002,355-360	NC

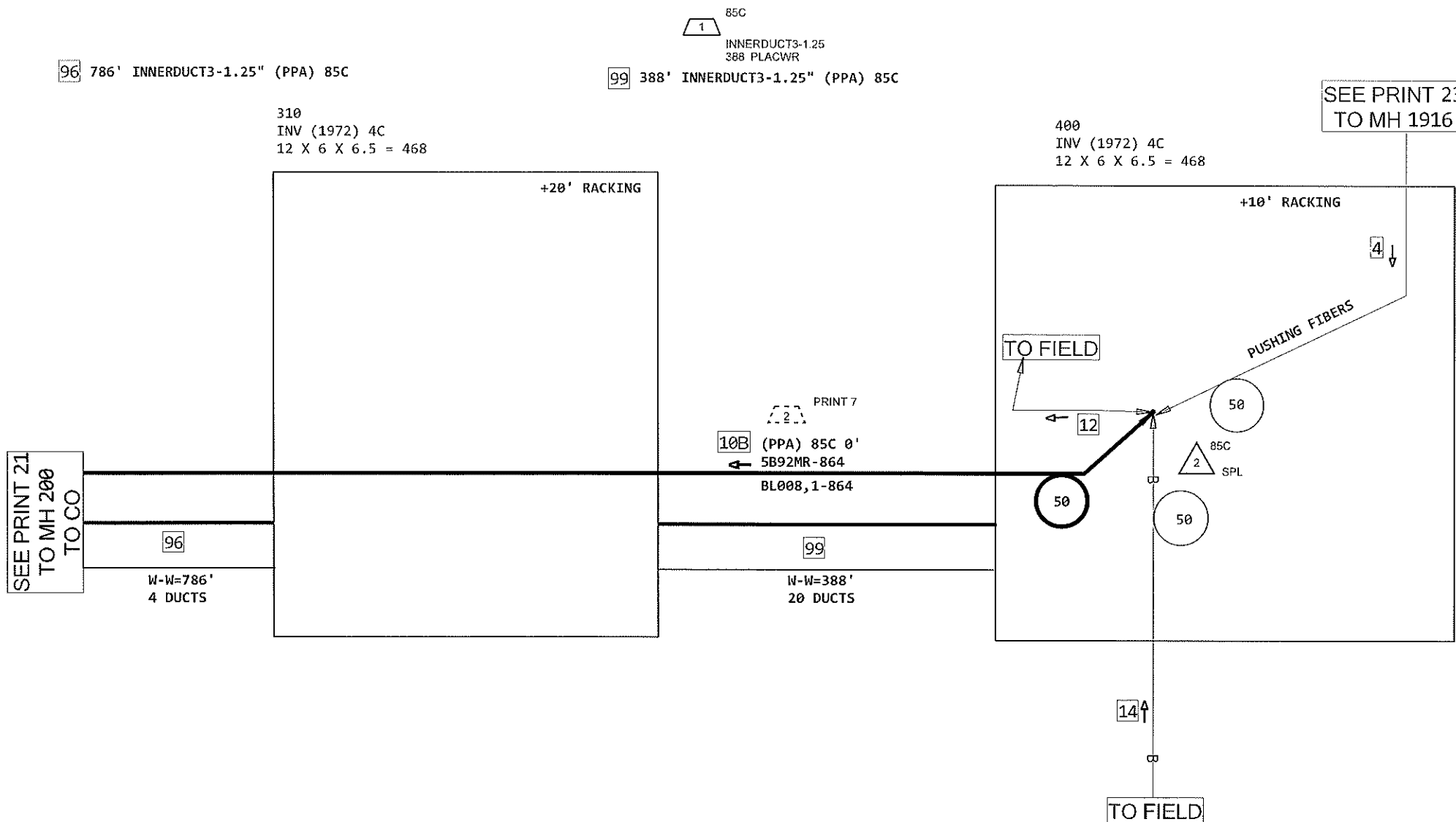
4 (PPA) 85C 330'
5BQ2MR-864

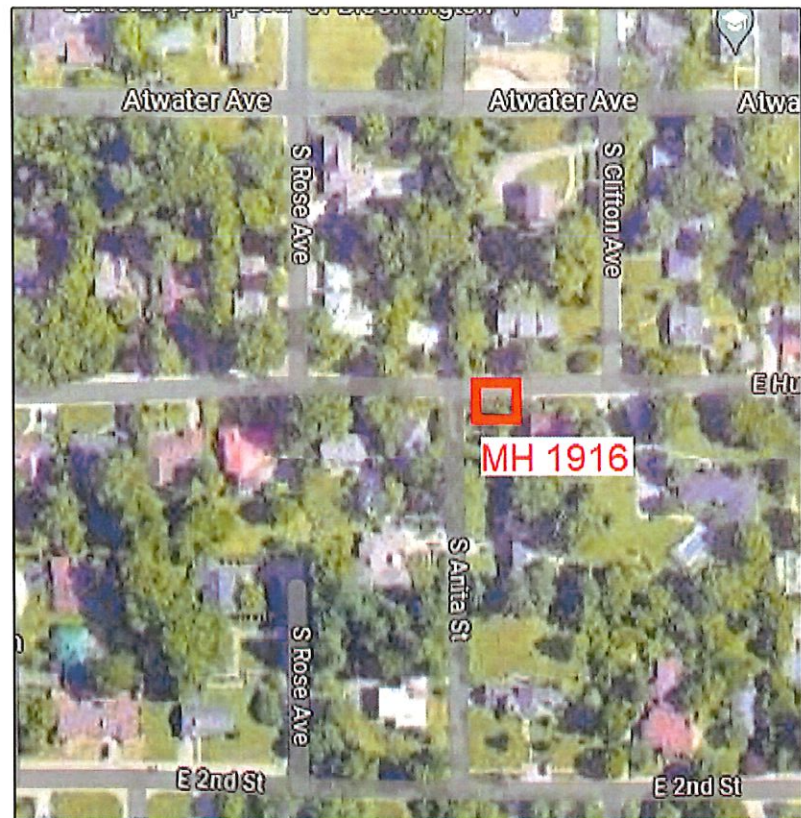
BL002,325-336	NC	PUSHING FIBERS
D,13-36		
(D,37-540)	<A02MQK7> BL008,1-504	
(D,541-864)	<A02MQK7> BL008,541-864	

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 22 OF 43	





CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED



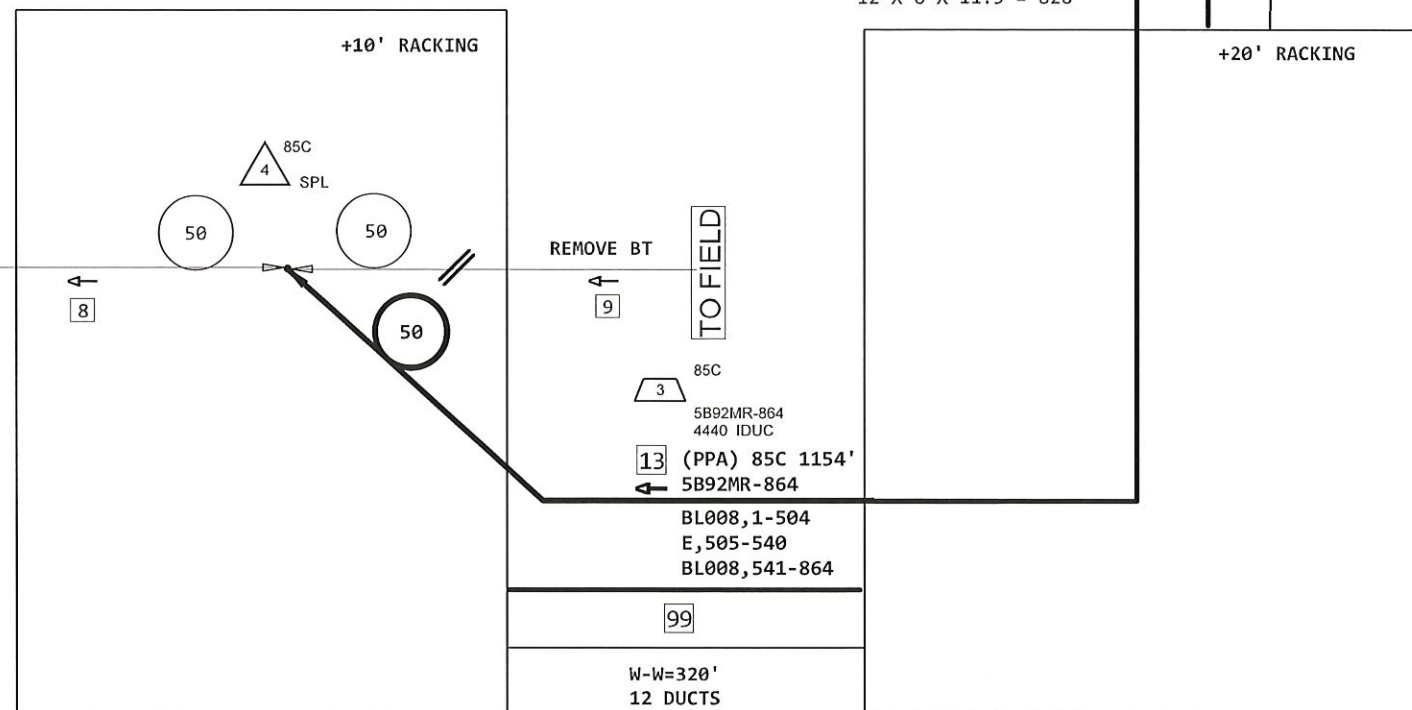
SEE PRINT 24
TO MH 301H

1916
INV (1972) 4C
12 X 6 X 11.5 = 828

T-1
INV (1972) 4C
12 X 6 X 11.5 = 828

98 W-W=694'
12 DUCTS

SEE PRINT 22
TO MH 400
TO CO



8 (PPA) 85C 931'
5BQ2MR-864
BL002,325-336 NC
D,13-36 NC
(D,37-540) <A02MQK7> BL008,1-504
(D,541-864) <A02MQK7> BL008,541-864

9 (PPA) 85C 275'
5B92MT-144
BL002,325-336 NC
D,13-36 NC
(D,37-144) (<A02MQK7> BL008,1-108) <A02MQK7> D,37-144

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

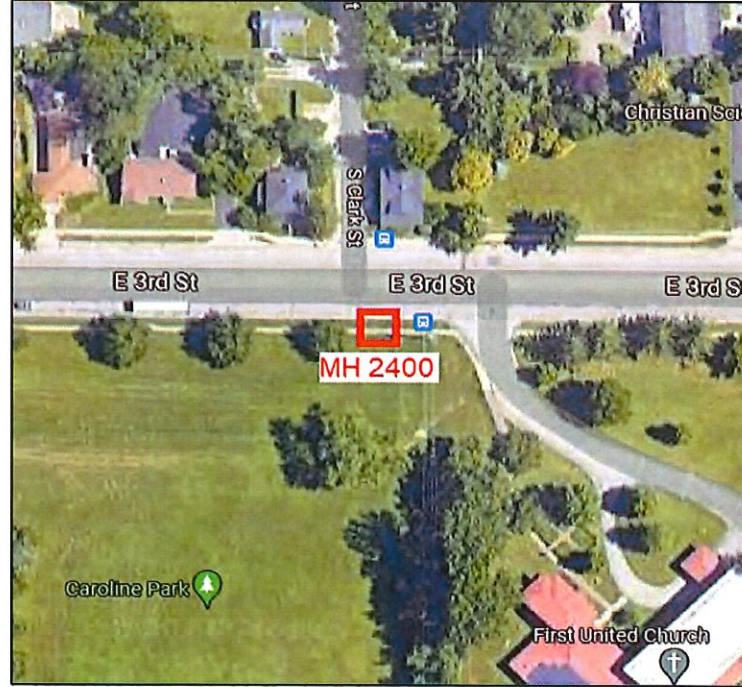
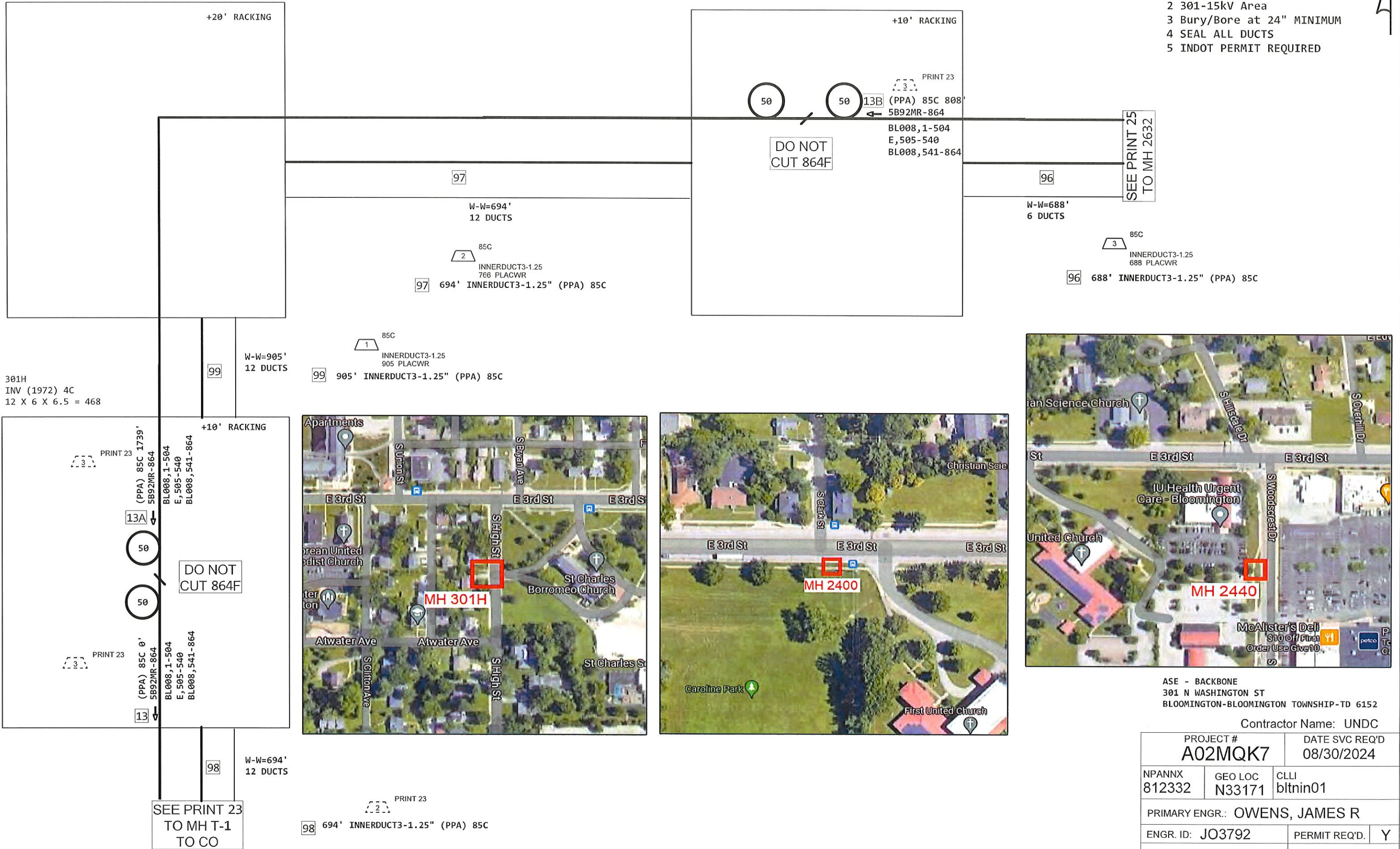
PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 23 OF 43	

2400
A (1972) 4C
12 X 6 X 6.5 = 468

2440
A (1972) 4C
12 X 6 X 6.5 = 468

CONSTRUCTION NOTES:

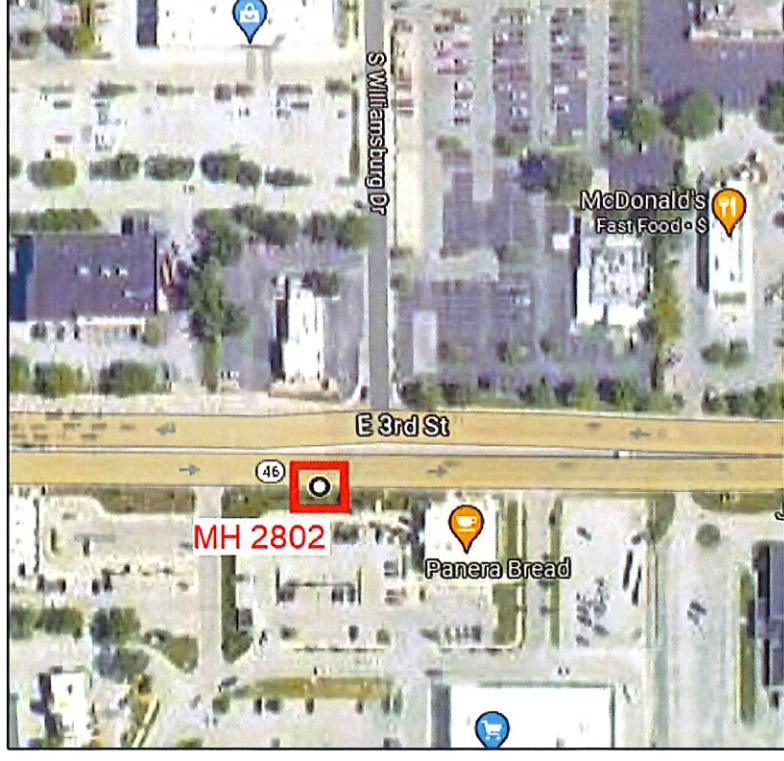
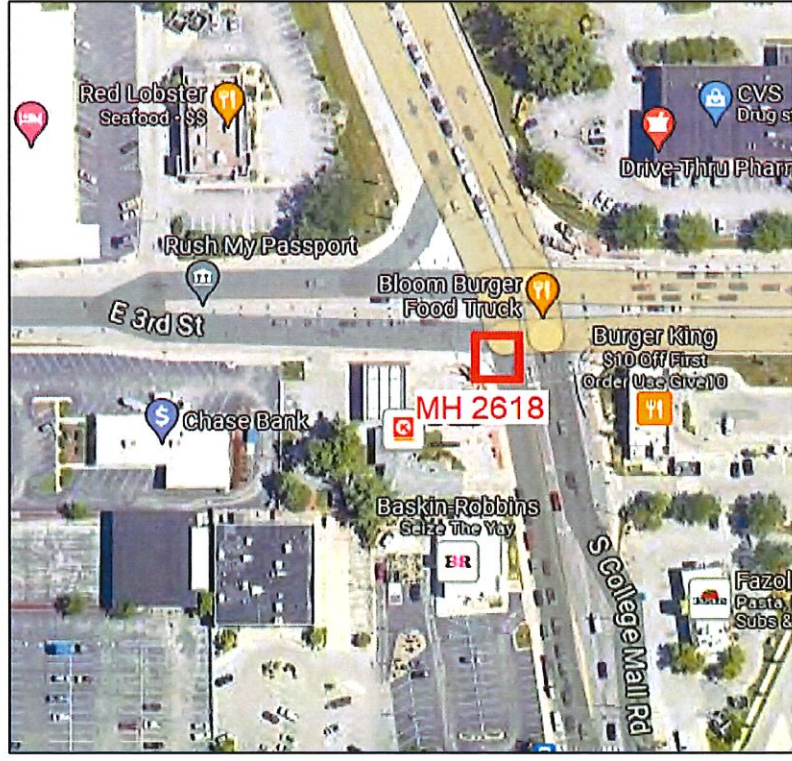
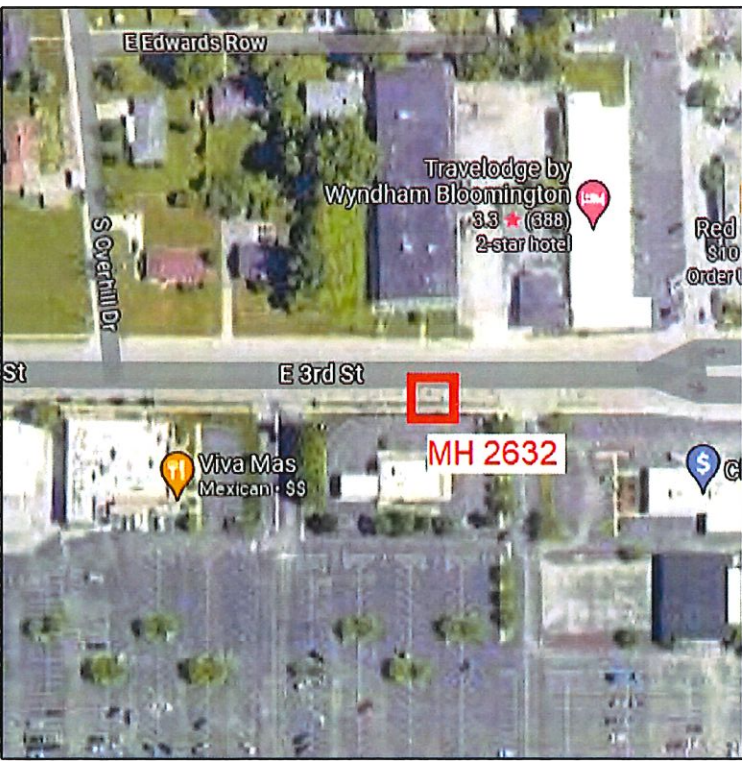
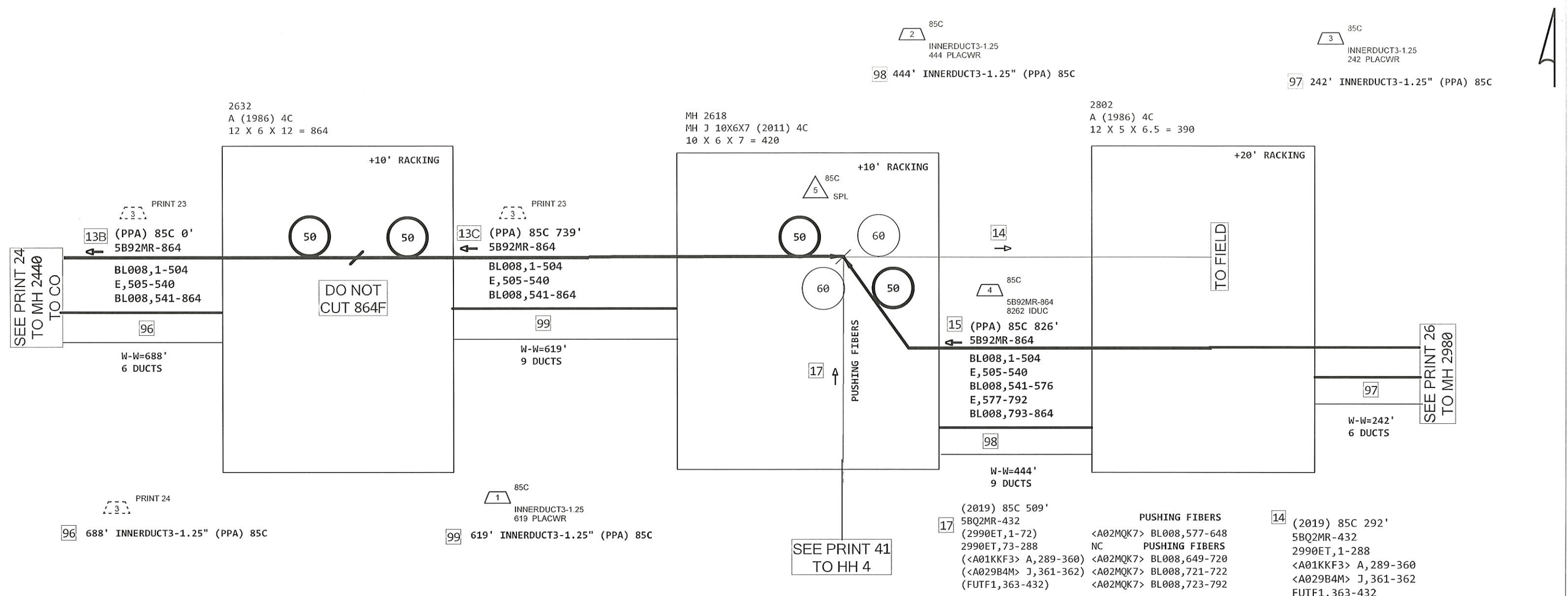
- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED



ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 24 OF 43	



CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

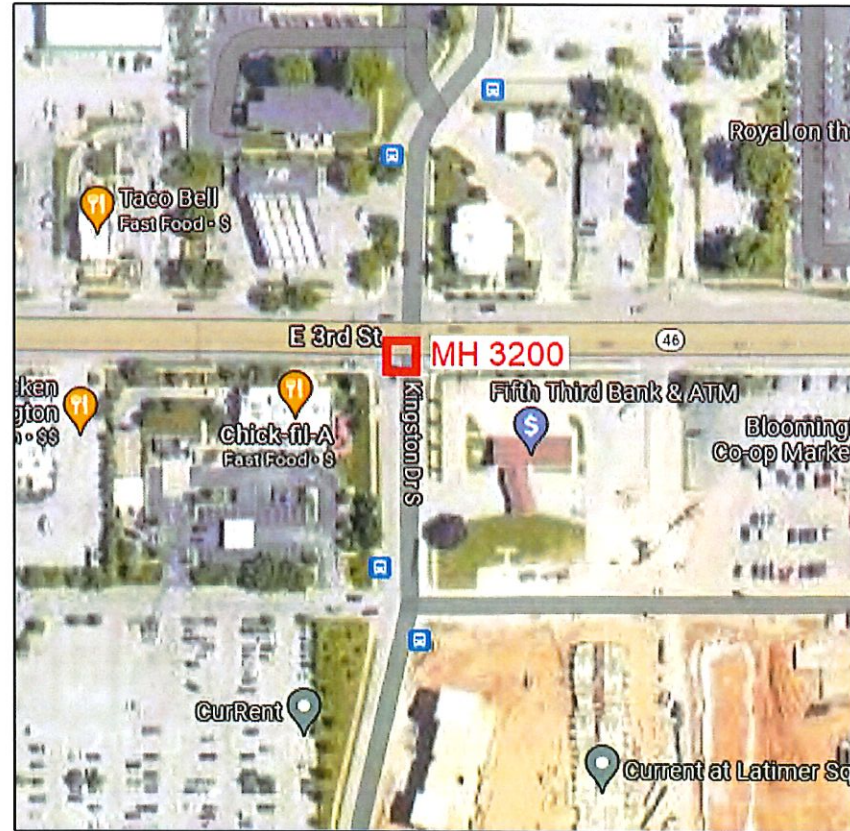
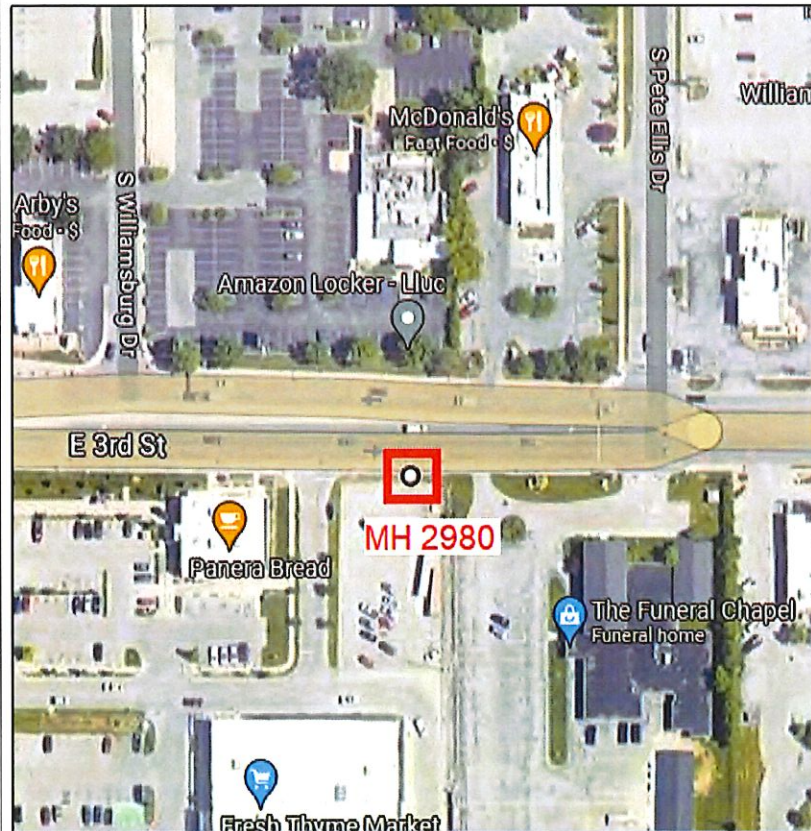
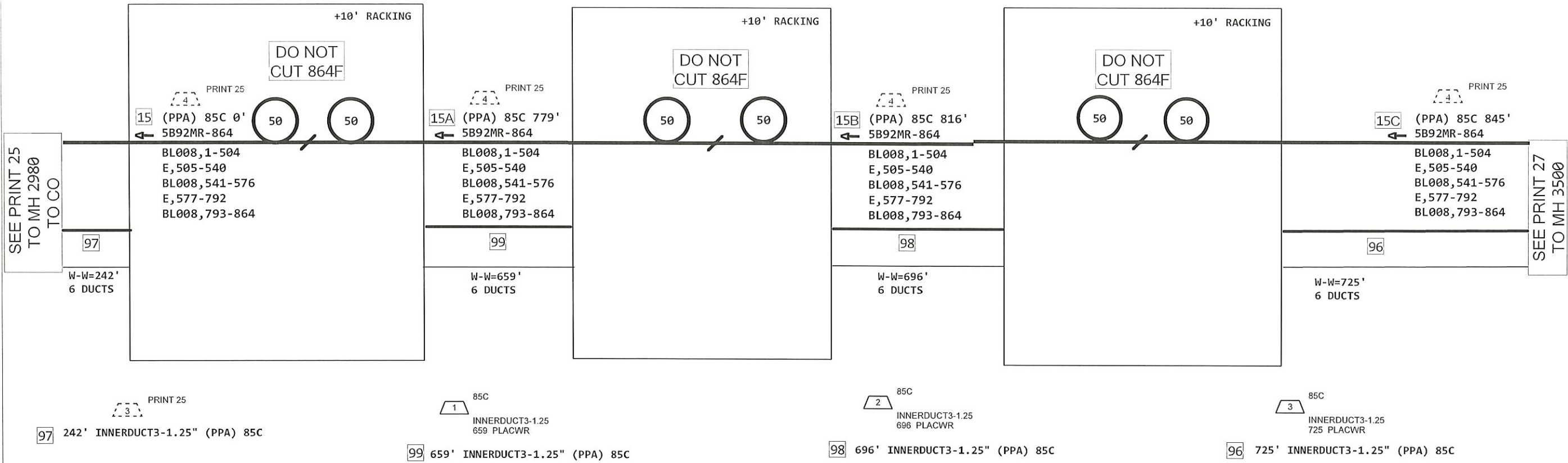
Contractor Name: UNDC

PROJECT #	A02MQK7		DATE SVC REQ'D	08/30/2024
NPANNX	GEO LOC	CLLI		
812332	N33171	bltnin01		
PRIMARY ENGR.: OWENS, JAMES R				
ENGR. ID:	JO3792	PERMIT REQ'D.	Y	
PHONE #:	8123344585	PRINT	25 OF 43	

2980
A (1993) 4C
10 X 5 X 6.5 = 325

3200
A (1965) 4C
12 X .5 X .58 = 3.48

3400
A (1965) 4C
8.5 X 4.5 X 5.5 = 210.38



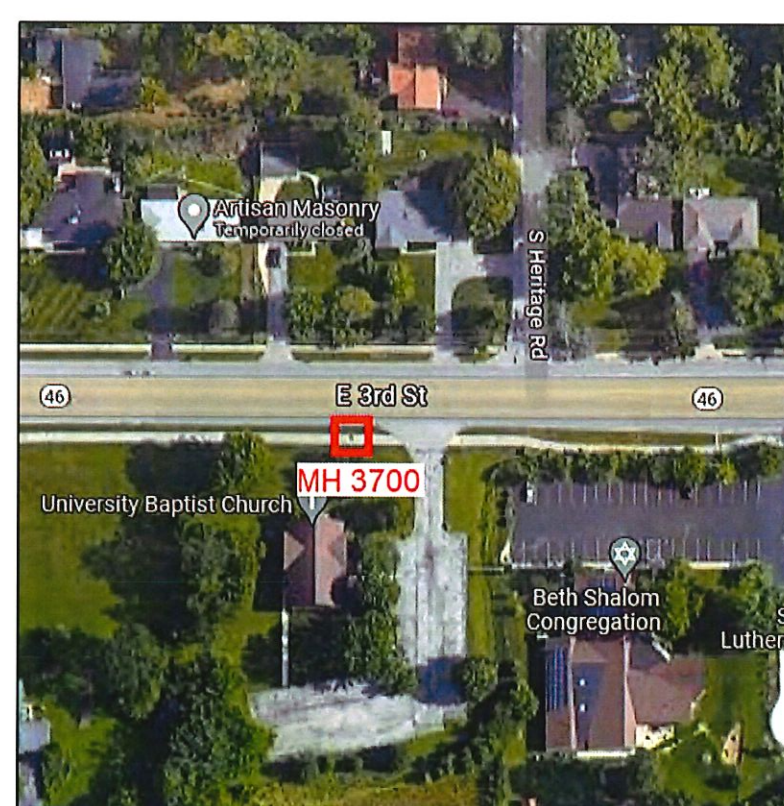
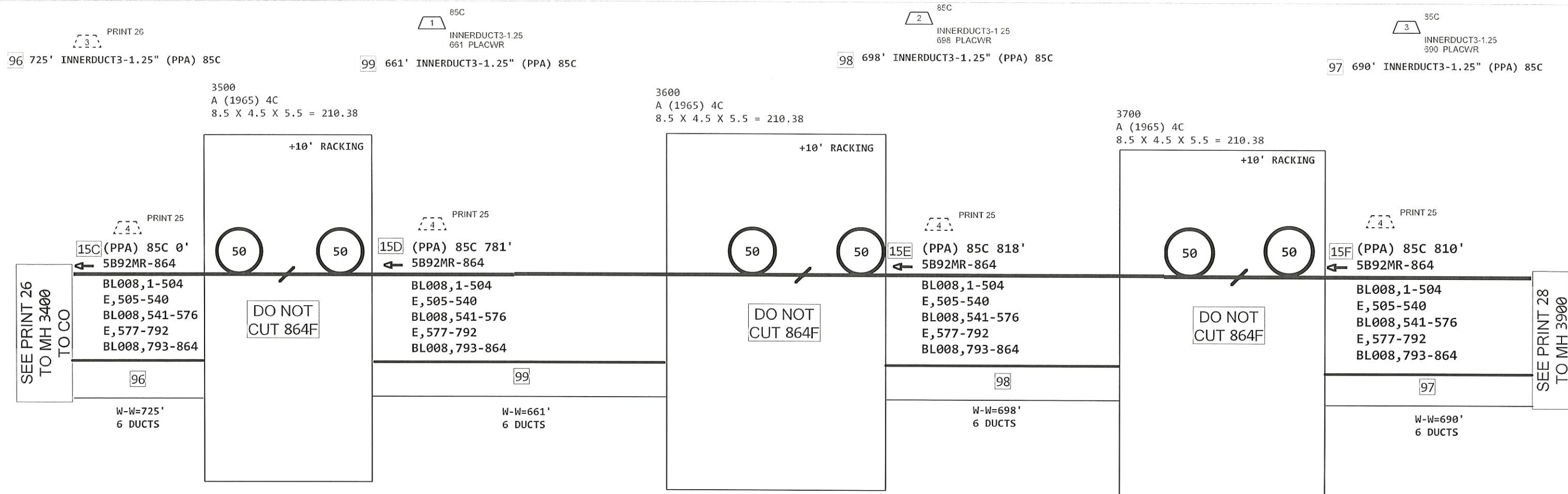
CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-TOWNSHIP TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 26 OF 43	



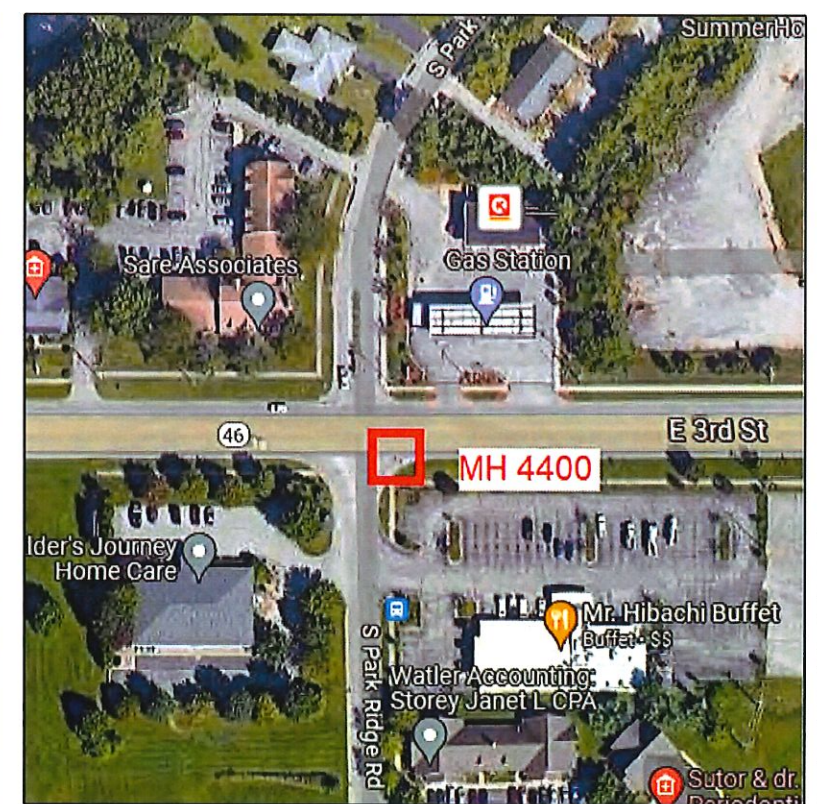
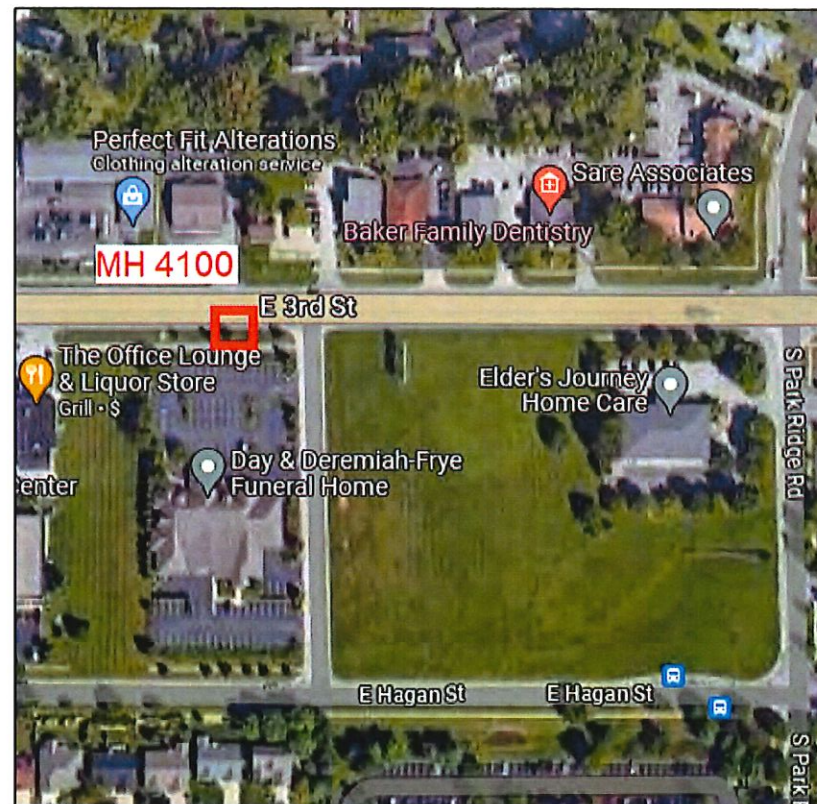
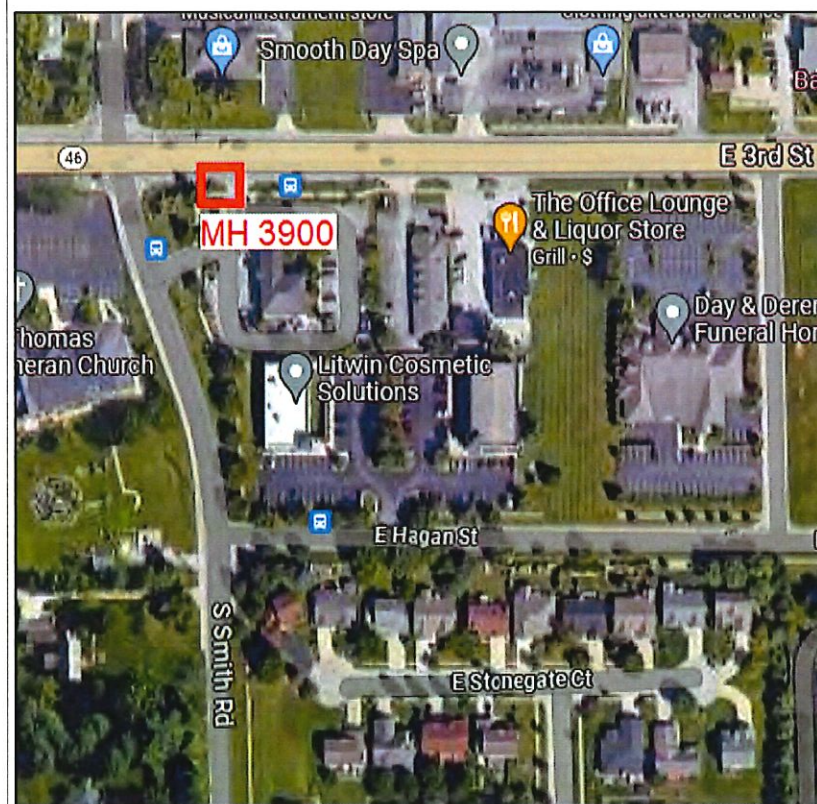
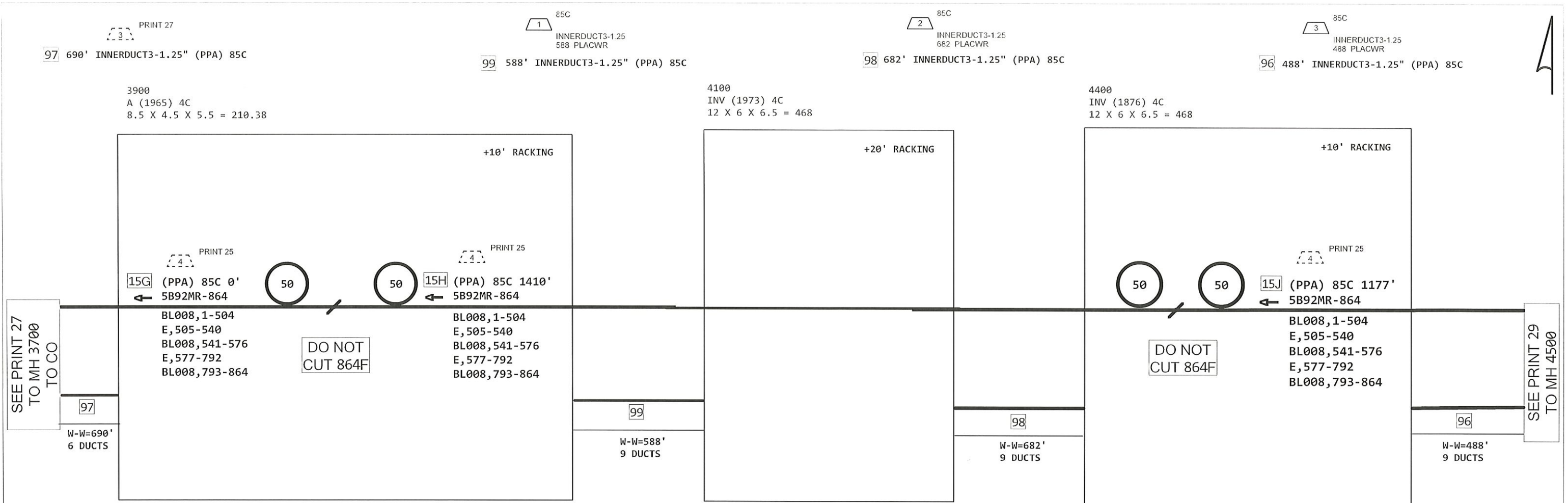
CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024	
NPANNX 812332	GEO LOC N33171	CLLI bltnin01	
PRIMARY ENGR.: OWENS, JAMES R			
ENGR. ID: JO3792		PERMIT REQ'D.	Y
PHONE #: 8123344585		PRINT 27 OF 43	



CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT #	DATE SVC REQ'D	
A02MQK7	08/30/2024	
NPANNX	GEO LOC	CLLI
812332	N33171	bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 28 OF 43	

PRINT 28

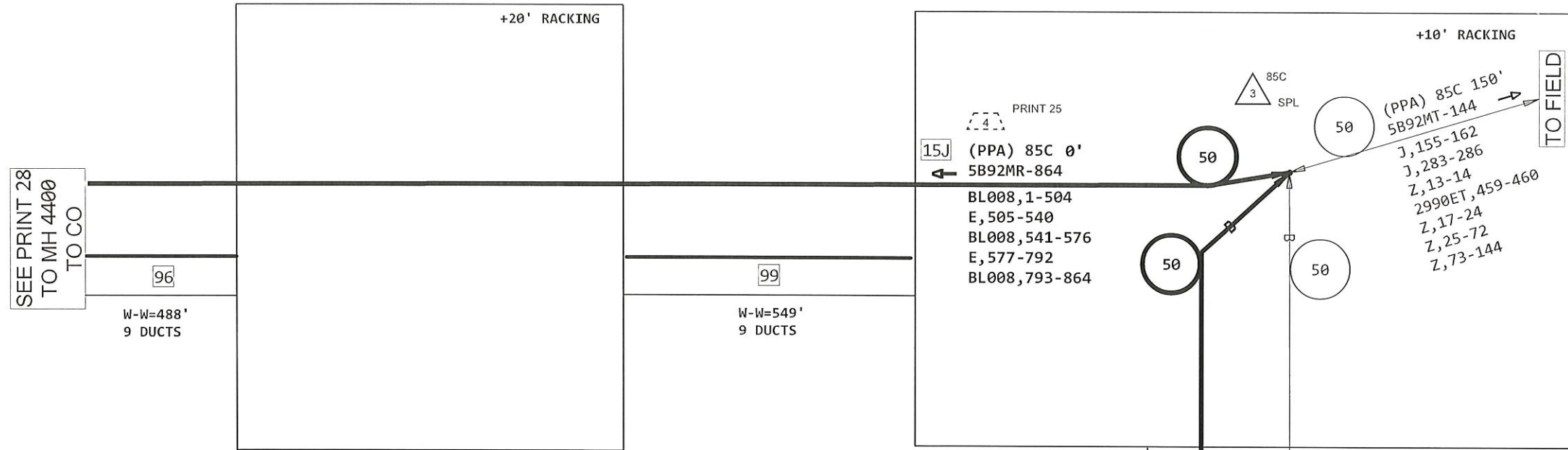
85C
INNERDUCT3-1.25
549 PLACWR

96 488' INNERDUCT3-1.25" (PPA) 85C

99 549' INNERDUCT3-1.25" (PPA) 85C

4500
INV (1973) 4C
12 X 6 X 6.5 = 468

4600T
INV (1973) 4C
12 X 6 X 6.5 = 468

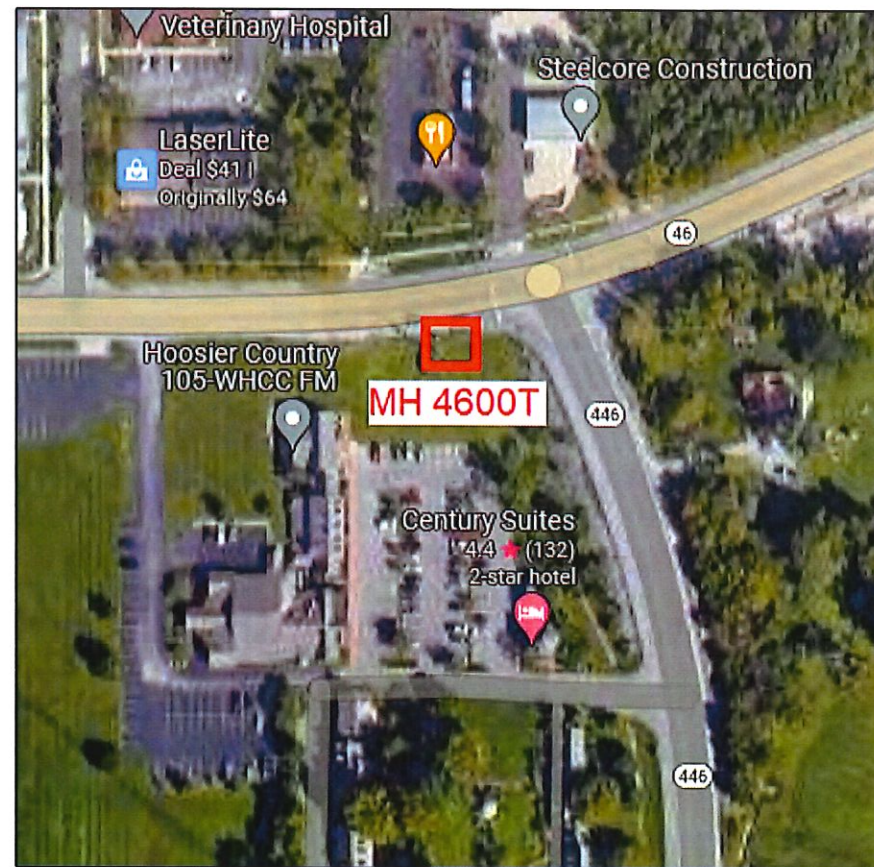
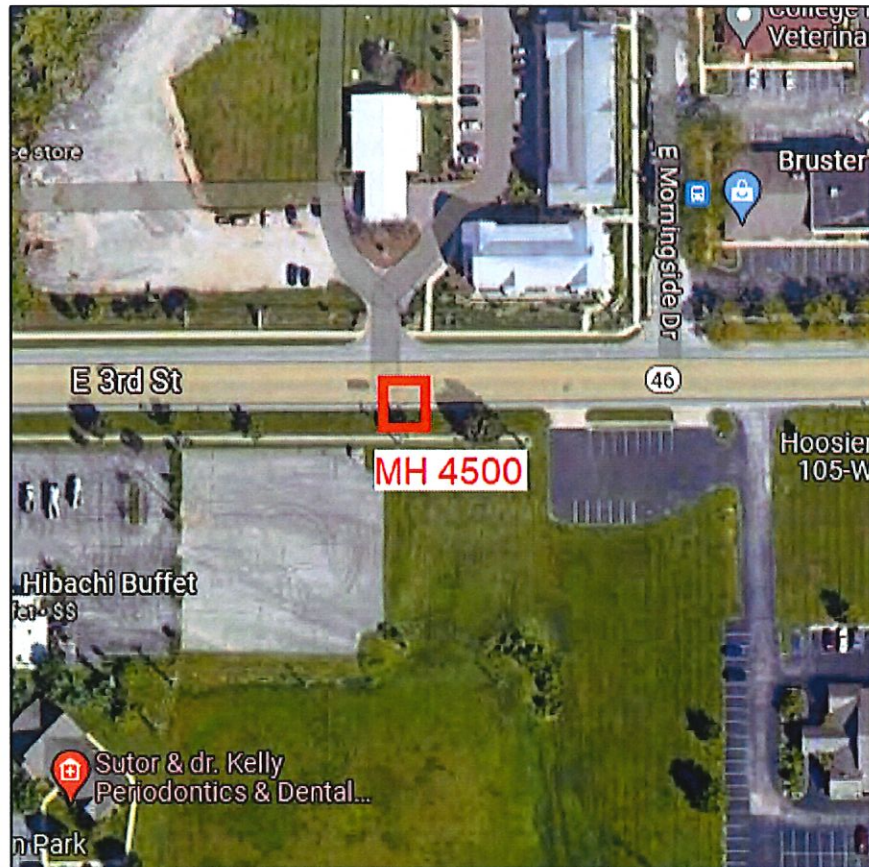


845C
5BQ2MT-144
830 PIVADT

W-P=700'

(PPA) 845C 830'
5BQ2MT-144
BL008, 1-144
(PPA) 845C 80'
5B92MT-048
Z, 1-12
Z, 13-14
2990ET, 459-460
Z, 17-24
E, 25-48

98 EXISTING
700' INNERDUCT1-1.25" (2015) 845C



SEE PRINT 30
TO POLE 178-955-BLM

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

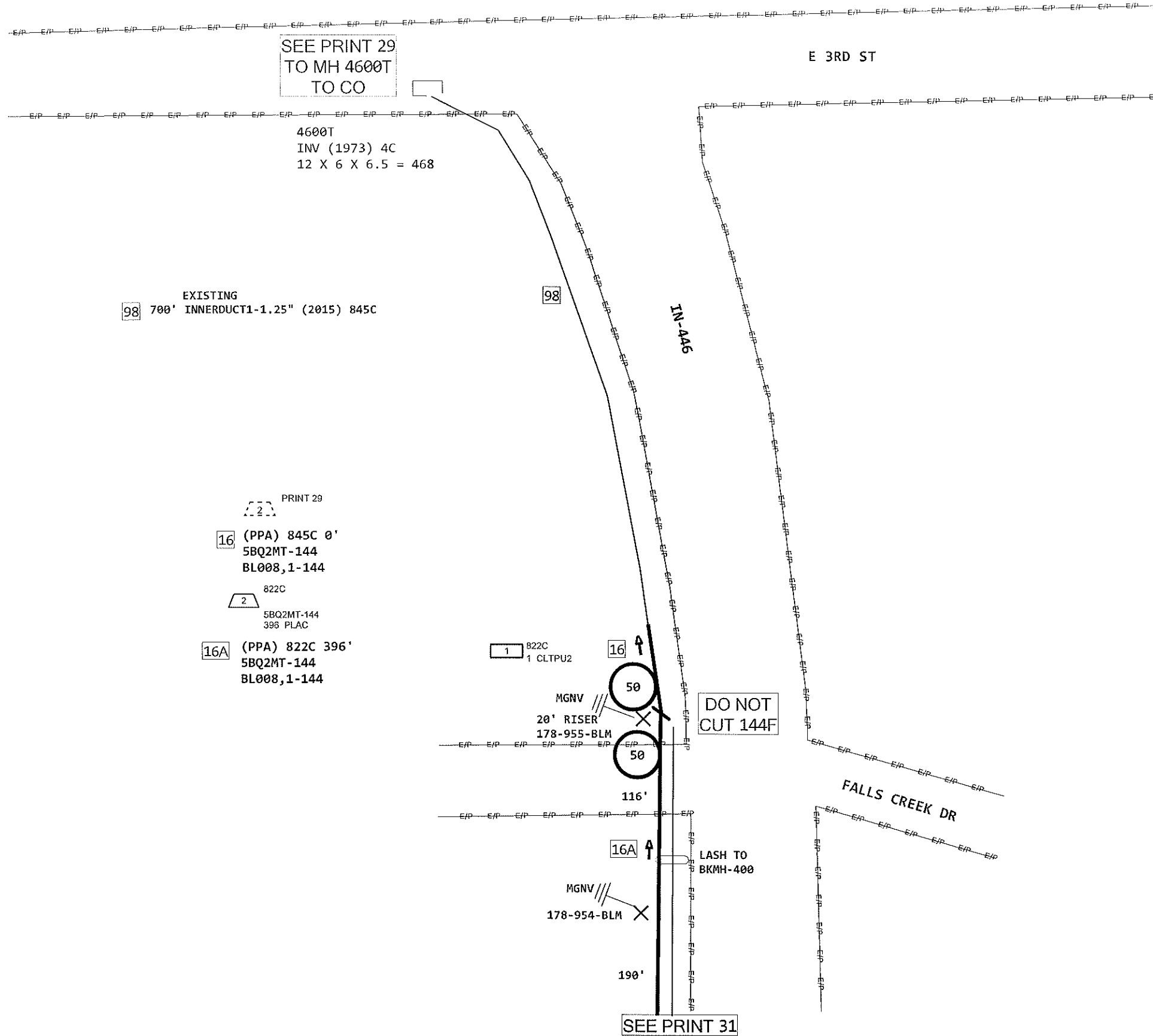
ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 29 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED



ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

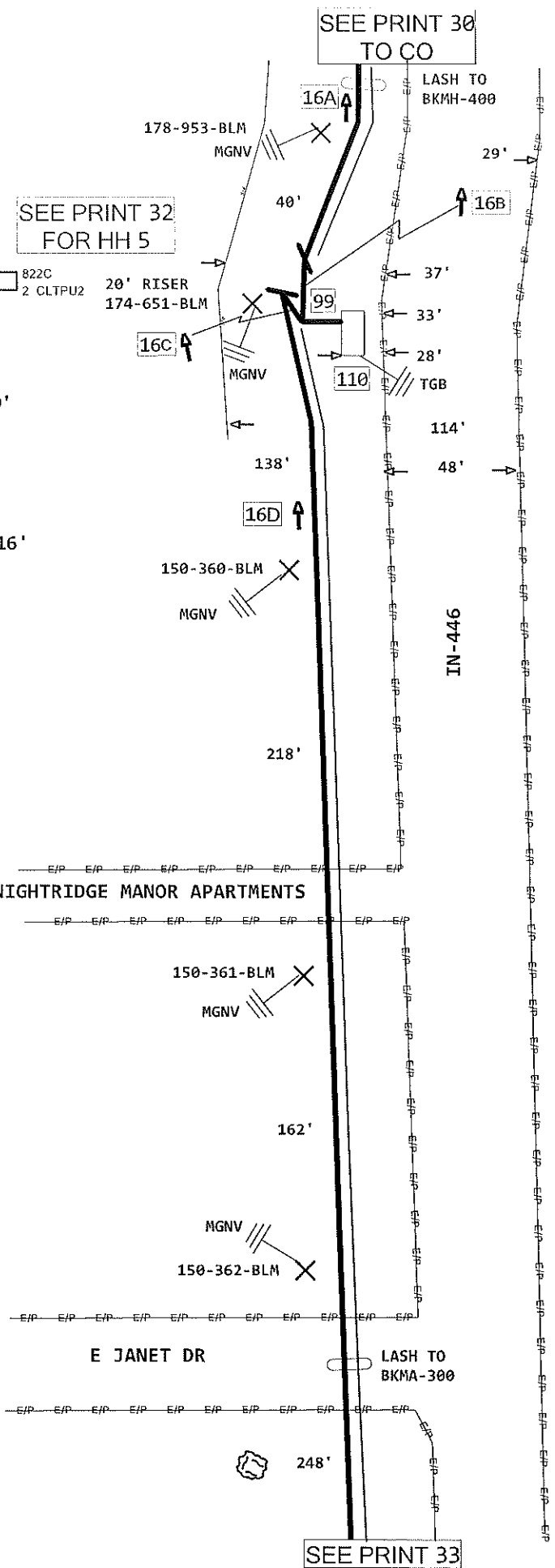
Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 30 OF 43	

110 HH5
 HH-30X48X36 (2018) 845C
 2.5 X 4 X 3 = 30

CONSTRUCTION NOTE:
 PLACE NEW FUTURE PATH
 DUCT BETWEEN POLE 174-651 AND HH5.
 DIP DOWN POLE, LEAVE LOOP IN HH,
 AND DIP BACK UP POLE

PRINT 30
 16A (PPA) 822C 0'
 5BQ2MT-144
 BL008,1-144
 822C
 3 5BQ2MT-144
 1703 PLAC
 16D (PPA) 822C 816'
 5BQ2MT-144
 BL008,1-144



4C
 4 FUTUREPATH-4
 5 HDIGC
 99 5' FUTUREPATH-4 (PPA) 4C

85C
 1 5BQ2MT-144
 75 IDUC
 16B (PPA) 85C 75'
 5BQ2MT-144
 BL008,1-144
 PRINT 32
 16C (PPA) 85C 0'
 5BQ2MT-144
 BL008,1-144

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

ATTACHMENT TO POWER COMPANY
 POLES REQUIRED FOR THIS PROJECT.
 DO NOT PROCEED WITH PLACING UNTIL
 SPANS PROPOSAL IS SUBMITTED AND APPROVED.

ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792		PERMIT REQ'D. Y
PHONE #: 8123344585		PRINT 31 OF 43

CONSTRUCTION NOTES:

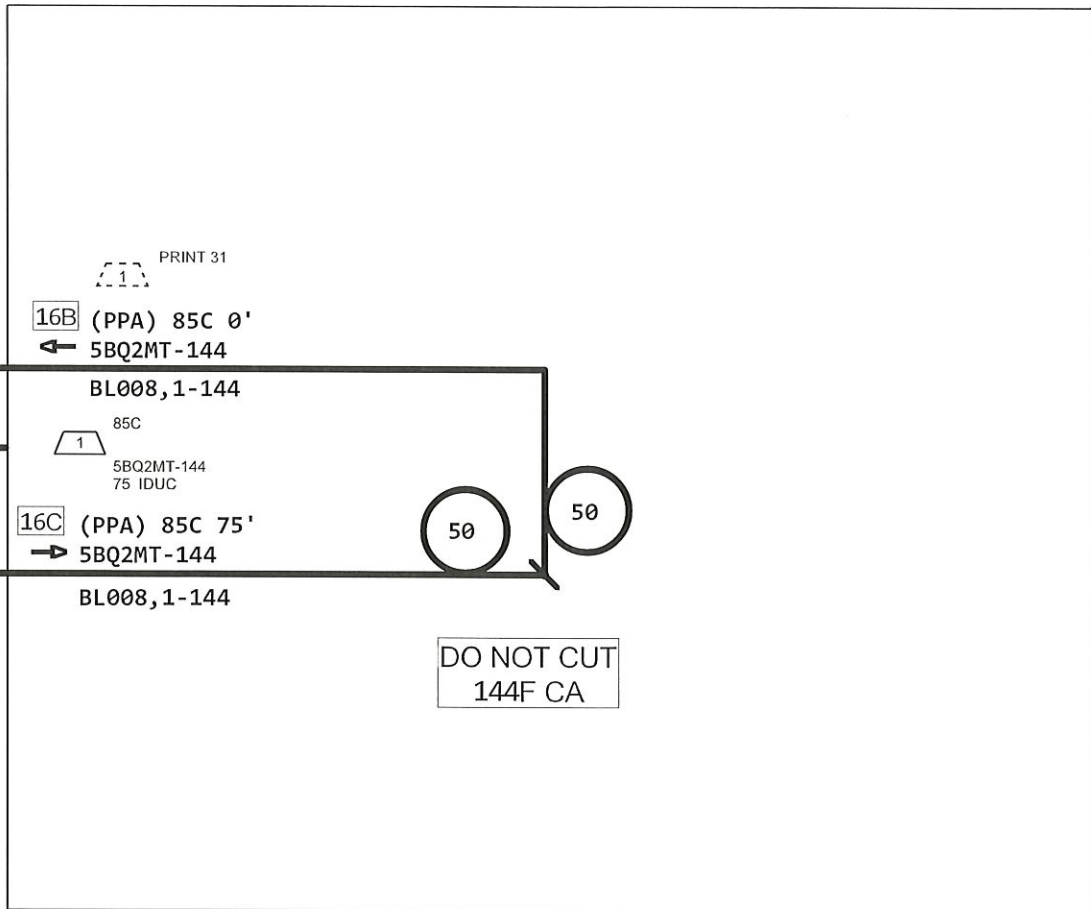
- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED



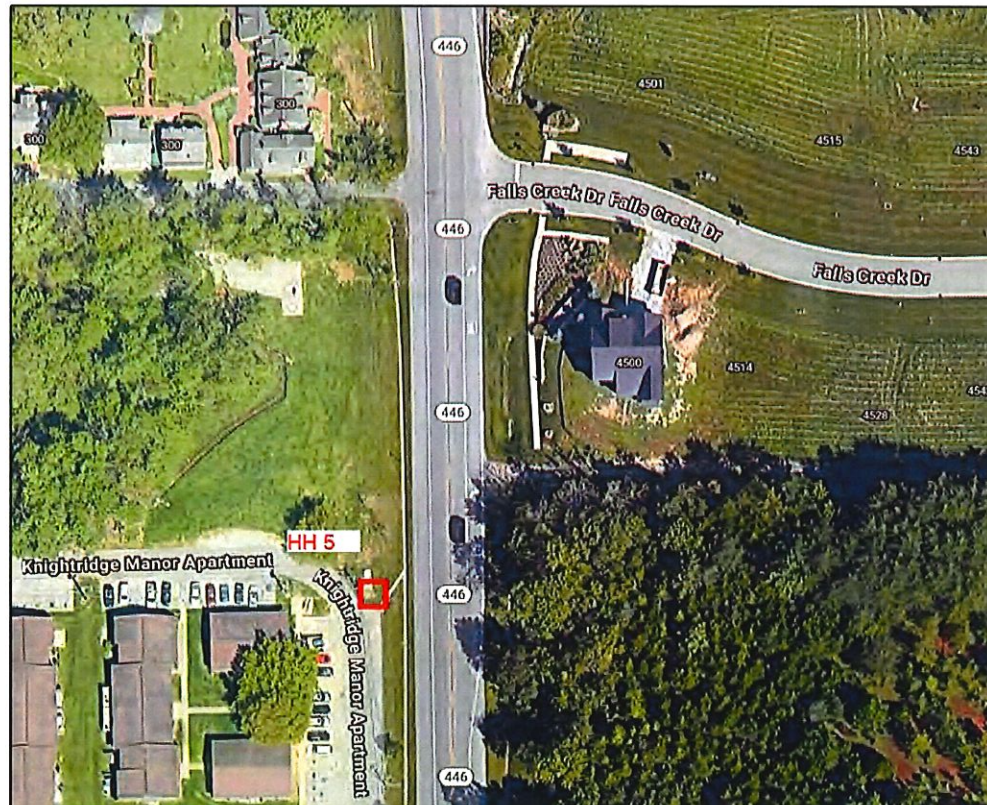
HH5
 HH-30X48X36 (2018) 845C
 2.5 X 4 X 3 = 30

SEE PRINT 31
 TO RISER 174-651-BLM
 TO CO

SEE PRINT 31
 TO RISER 174-651-BLM



PRINT 31
 109 5' FUTUREPATH-4 (PPA) 4C



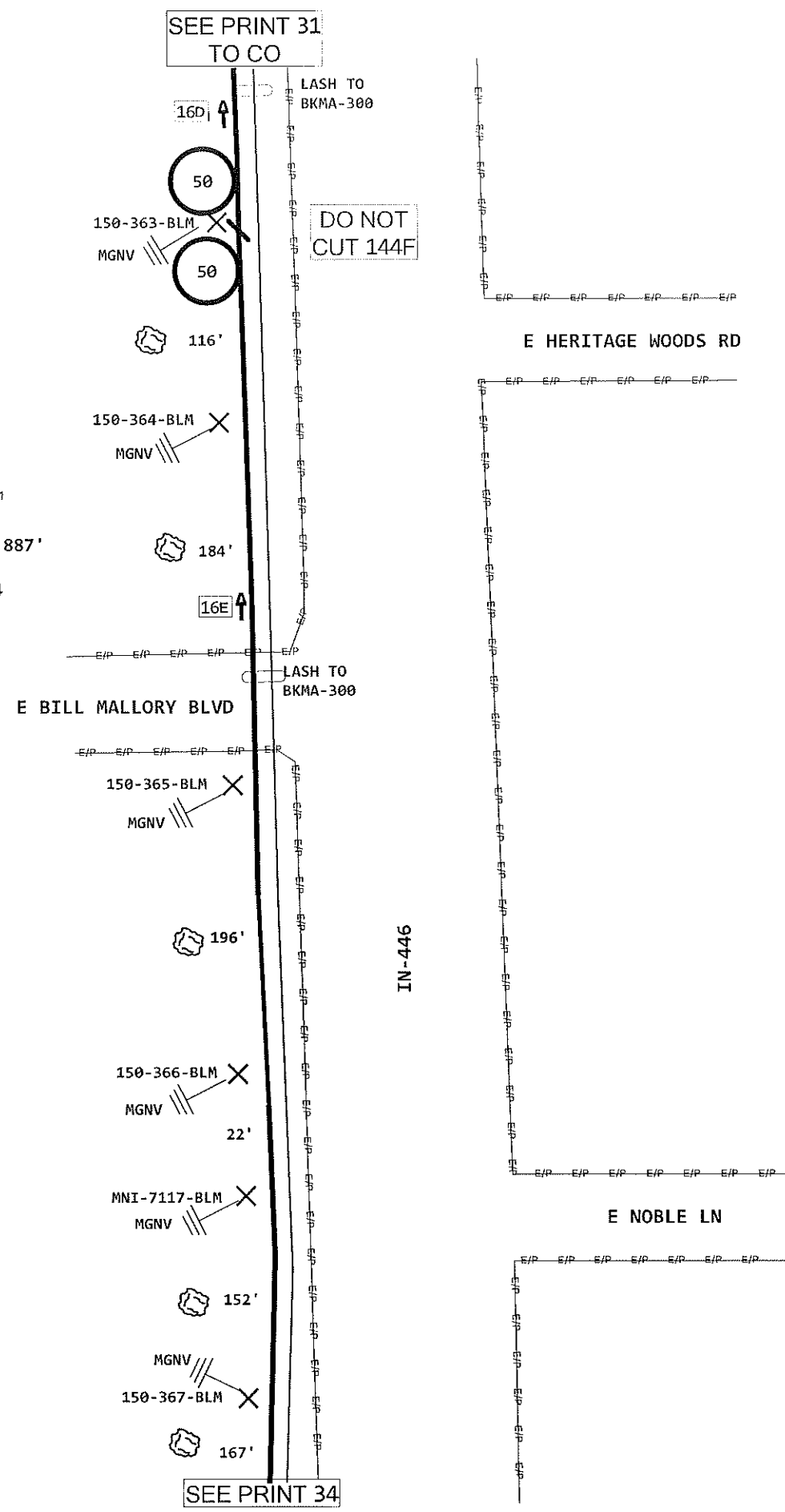
ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024	
NPANNX 812332	GEO LOC N33171	CLLI bltnin01	
PRIMARY ENGR.: OWENS, JAMES R			
ENGR. ID: JO3792		PERMIT REQ'D.	Y
PHONE #: 8123344585		PRINT 32 OF 43	

PRINT 31
 (PPA) 822C 0'
 16D 5BQ2MT-144
 BL008,1-144

PRINT 31
 (PPA) 822C 887'
 16E 5BQ2MT-144
 BL008,1-144



CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

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ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

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PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 33 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
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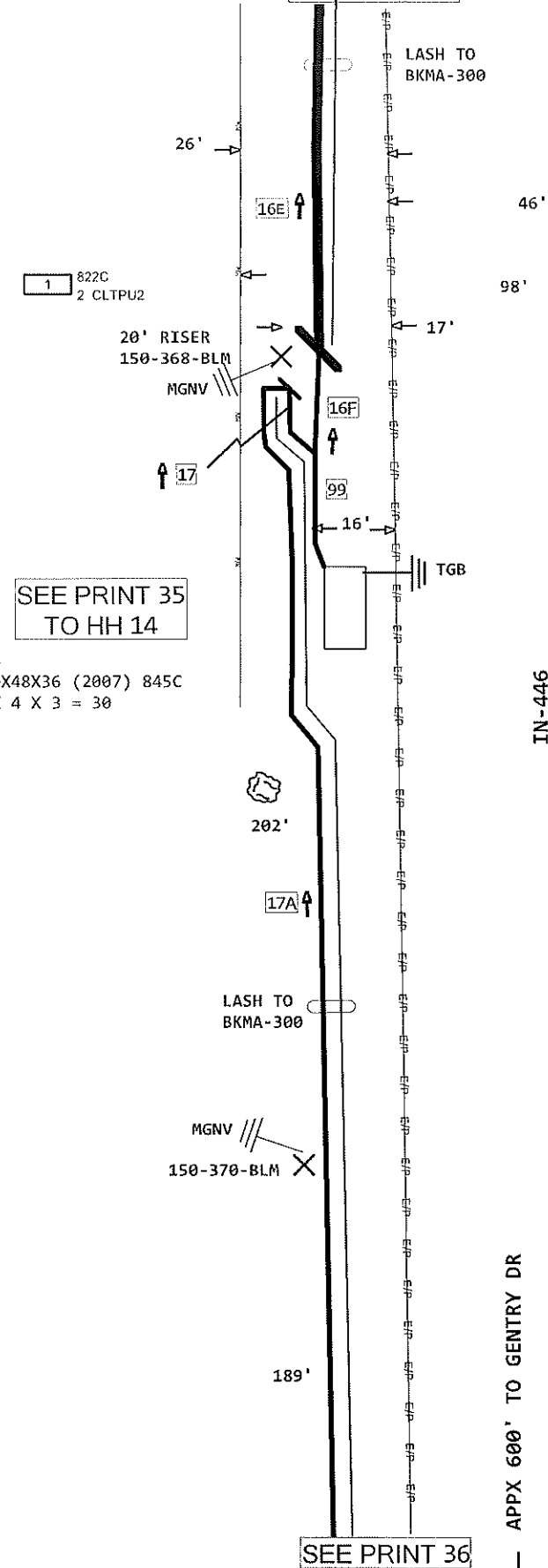
CONSTRUCTION NOTE:
PLACE NEW FUTURE PATH
DUCT BETWEEN POLE 150-368 AND HH14.
DIP DOWN POLE, LEAVE LOOP IN HH,
AND DIP BACK UP POLE

4C
FUTUREPATH-4
5 HDIGC
99 5' FUTUREPATH-4 (PPA) 4C

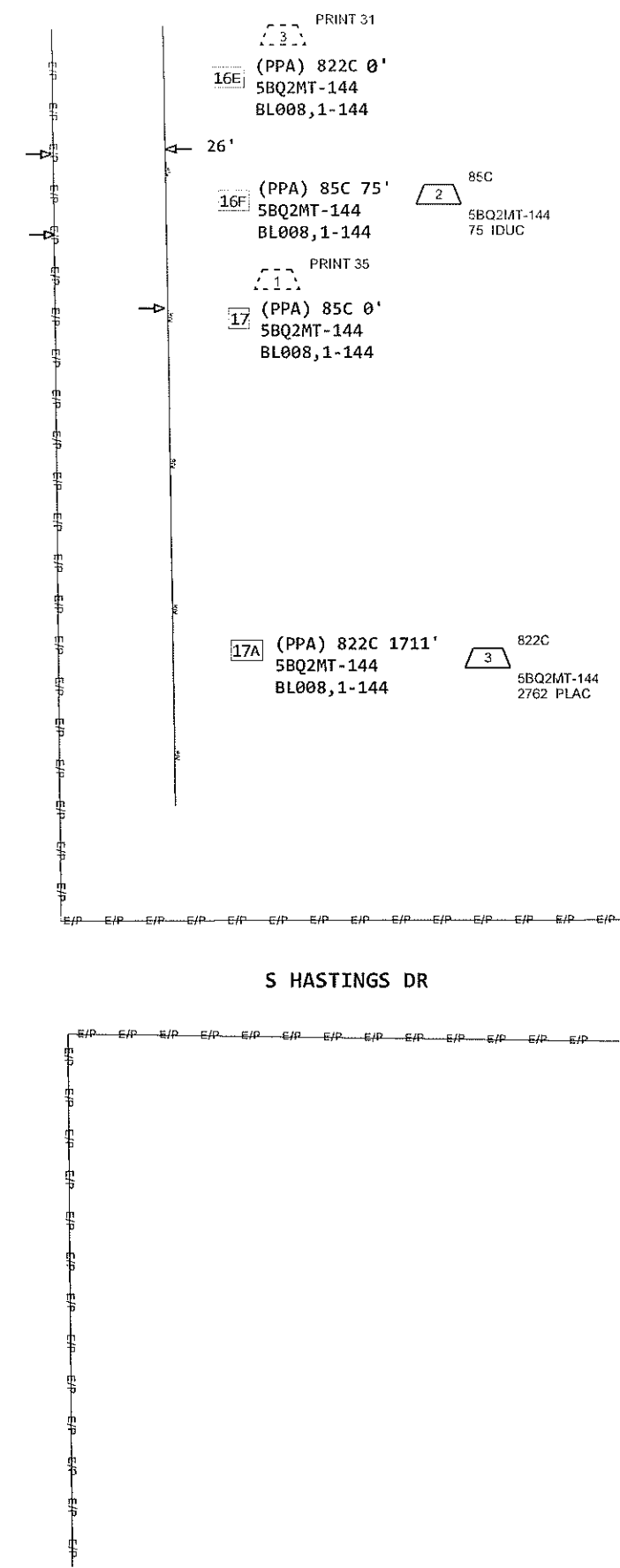
SEE PRINT 35
TO HH 14

HH 14
HH-30X48X36 (2007) 845C
2.5 X 4 X 3 = 30

SEE PRINT 33
TO CO



APPX 600' TO GENTRY DR



ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 34 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
- 4 SEAL ALL DUCTS
- 5 INDOT PERMIT REQUIRED

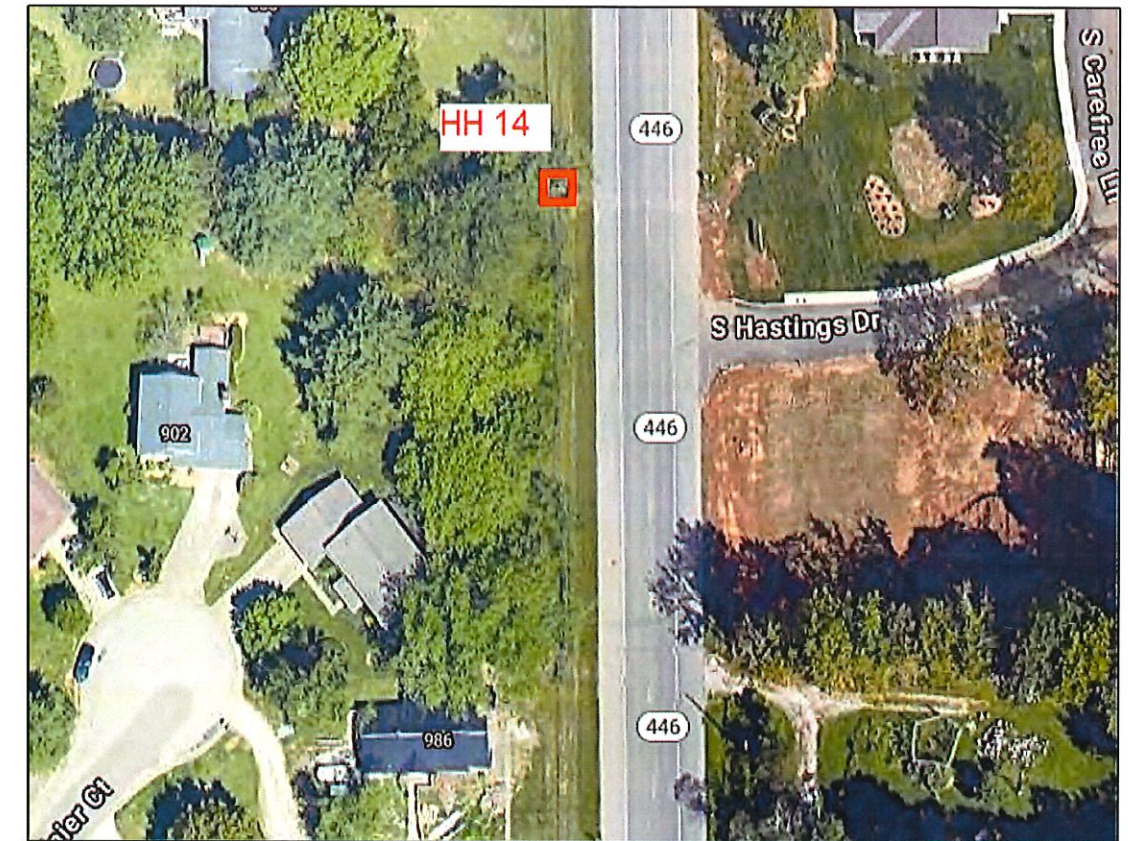
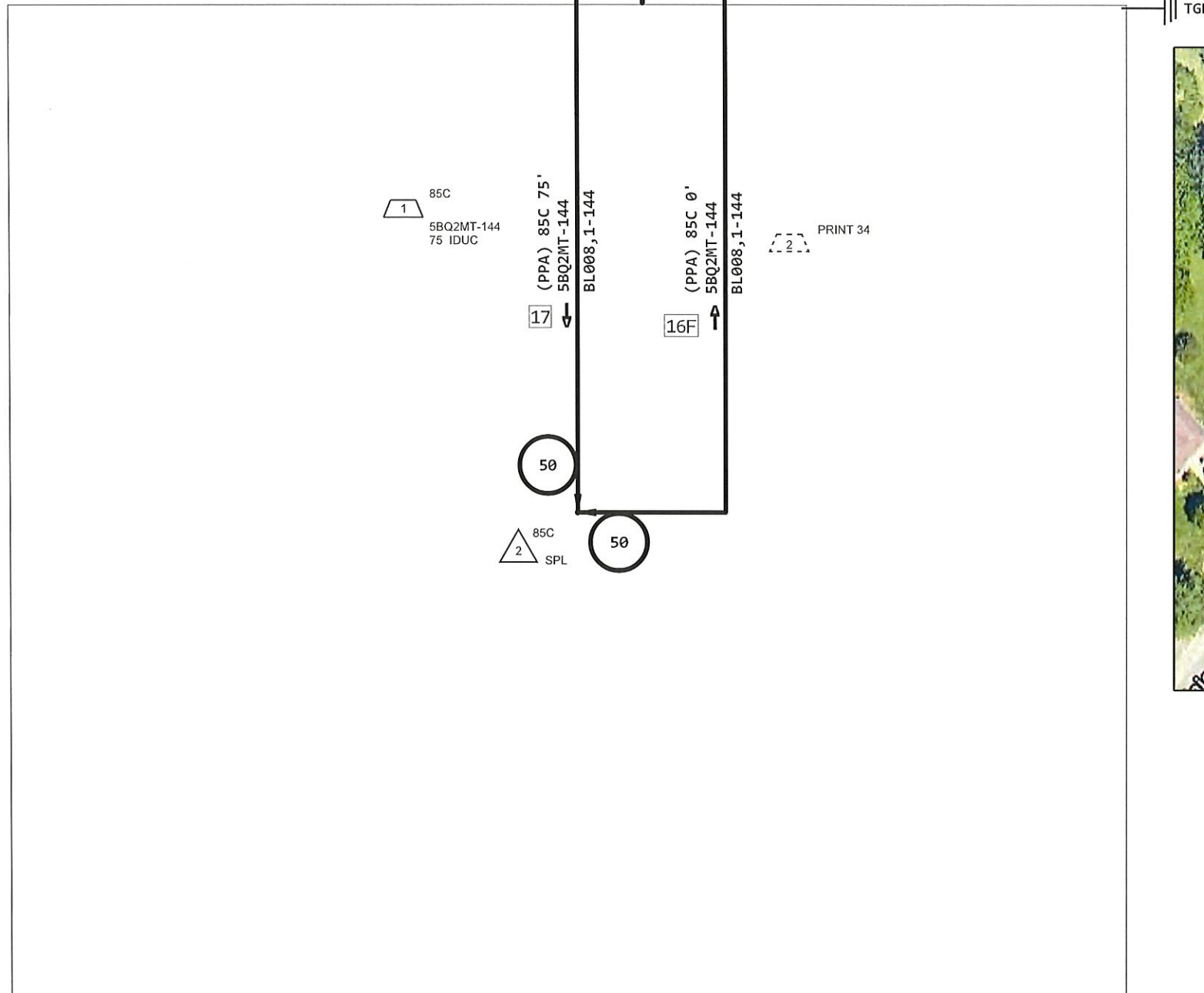


HH 14
 HH-30X48X36 (2007) 845C
 2.5 X 4 X 3 = 30

SEE PRINT 34
 TO RISER 150-168-BLM

SEE PRINT 34
 TO RISER 150-168-BLM
 TO CO

PRINT 34
 99 5' FUTUREPATH-4 (PPA) 4C



ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

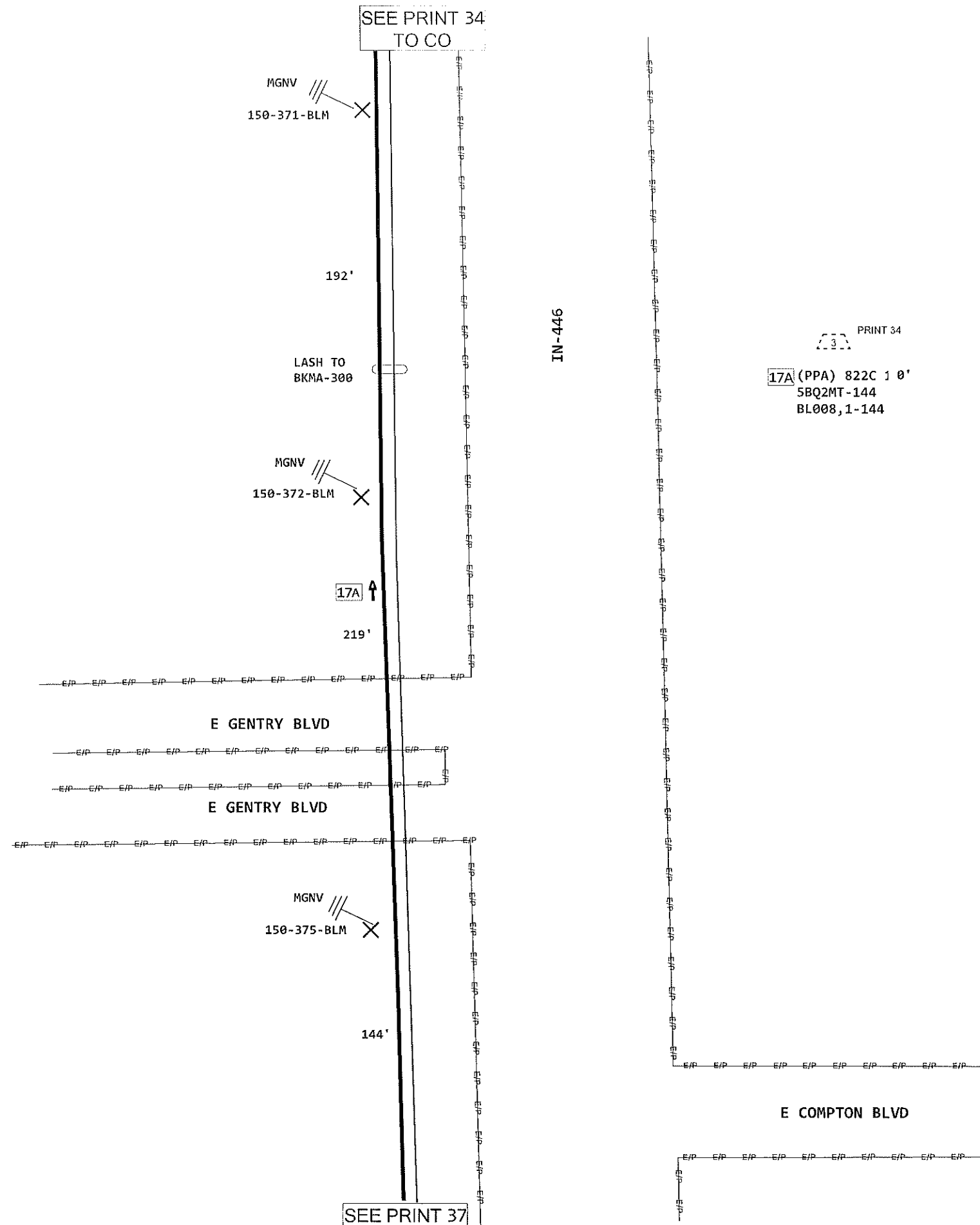
Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 35 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
- 3 Bury/Bore at 24" MINIMUM
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- 5 INDOT PERMIT REQUIRED

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SPANS PROPOSAL IS SUBMITTED AND APPROVED.



ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

Contractor Name: UNDC

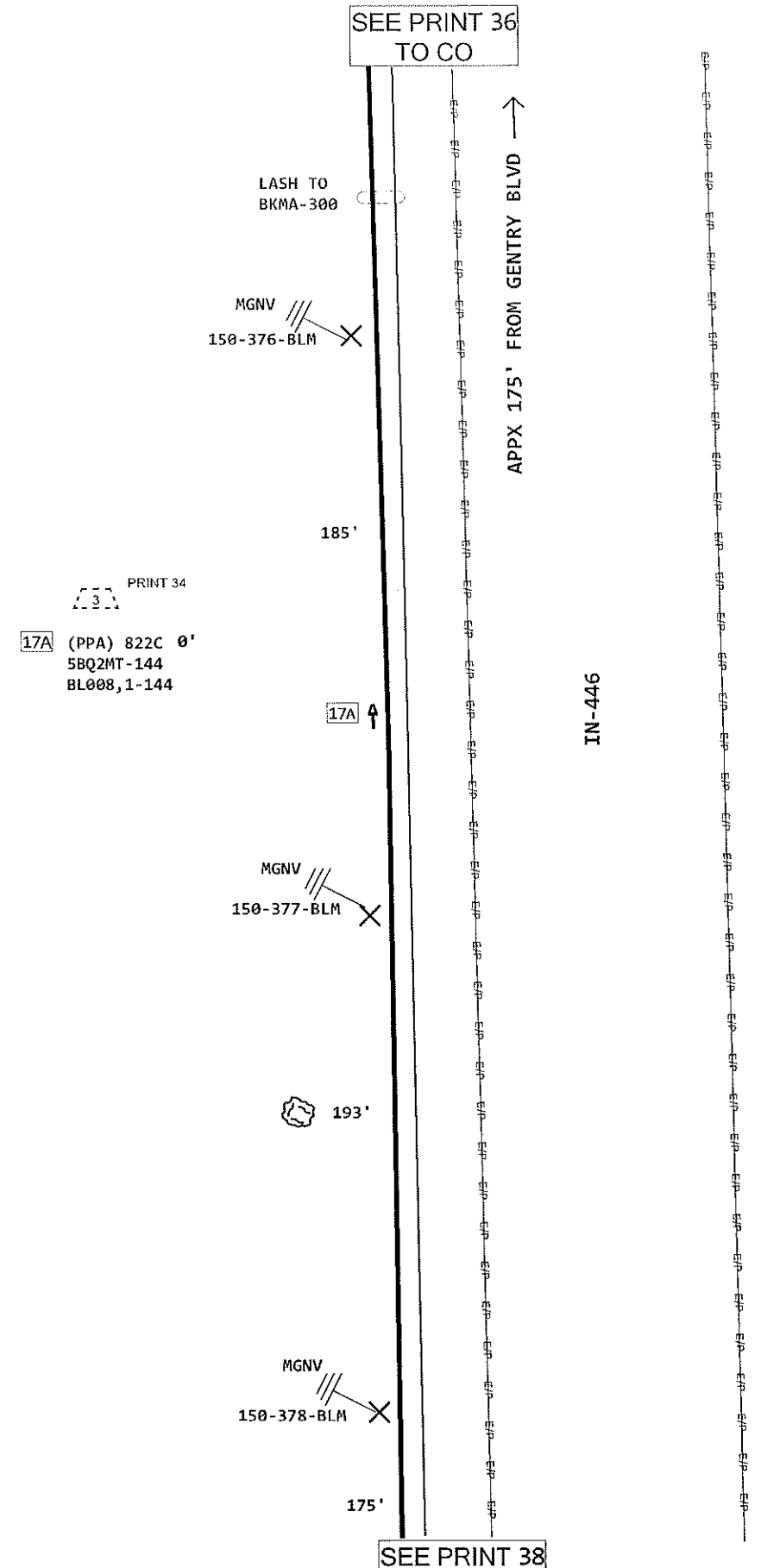
PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 36 OF 43	

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
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4

ATTACHMENT TO POWER COMPANY
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ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

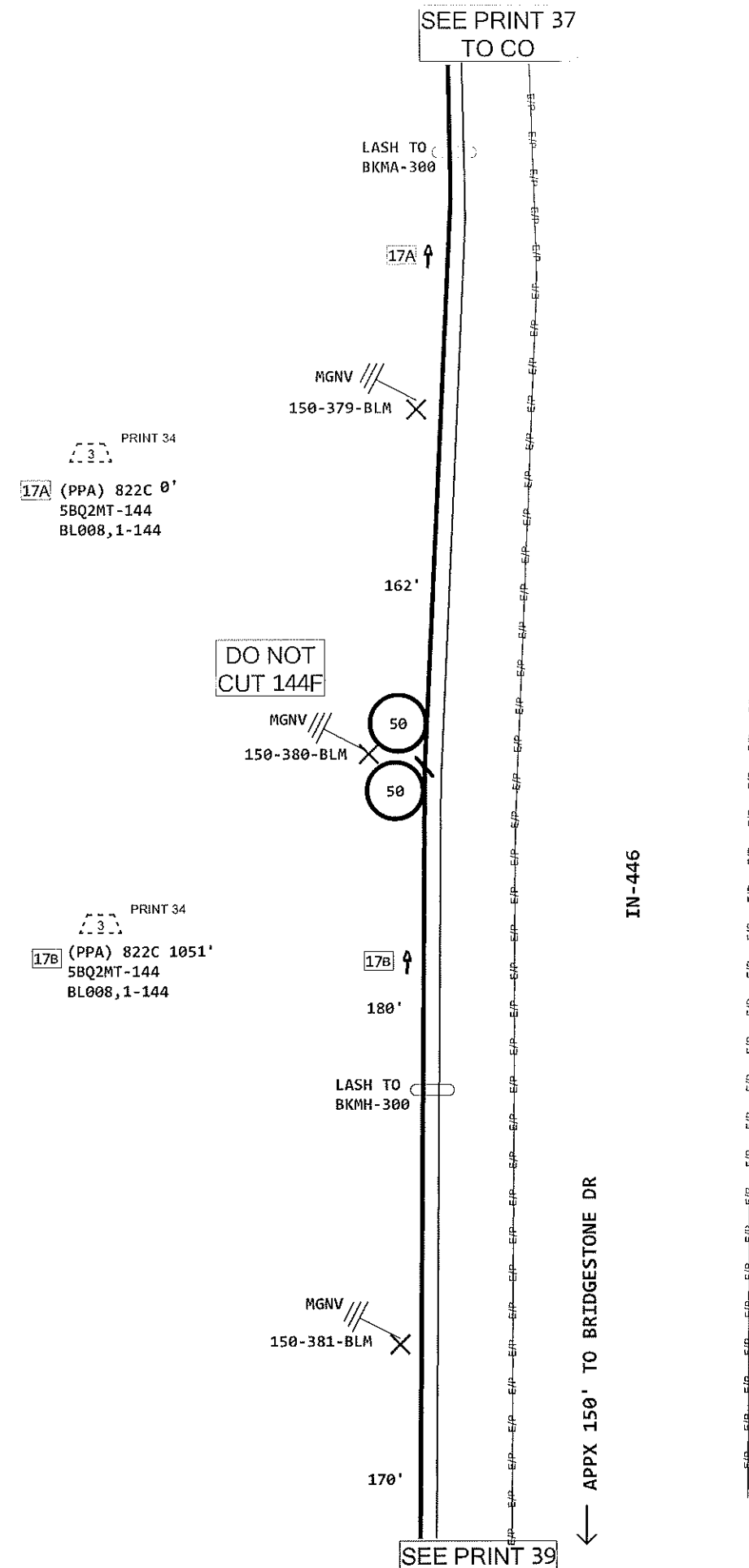
Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792		PERMIT REQ'D. Y
PHONE #: 8123344585		PRINT 37 OF 43

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
- 2 301-15kV Area
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ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

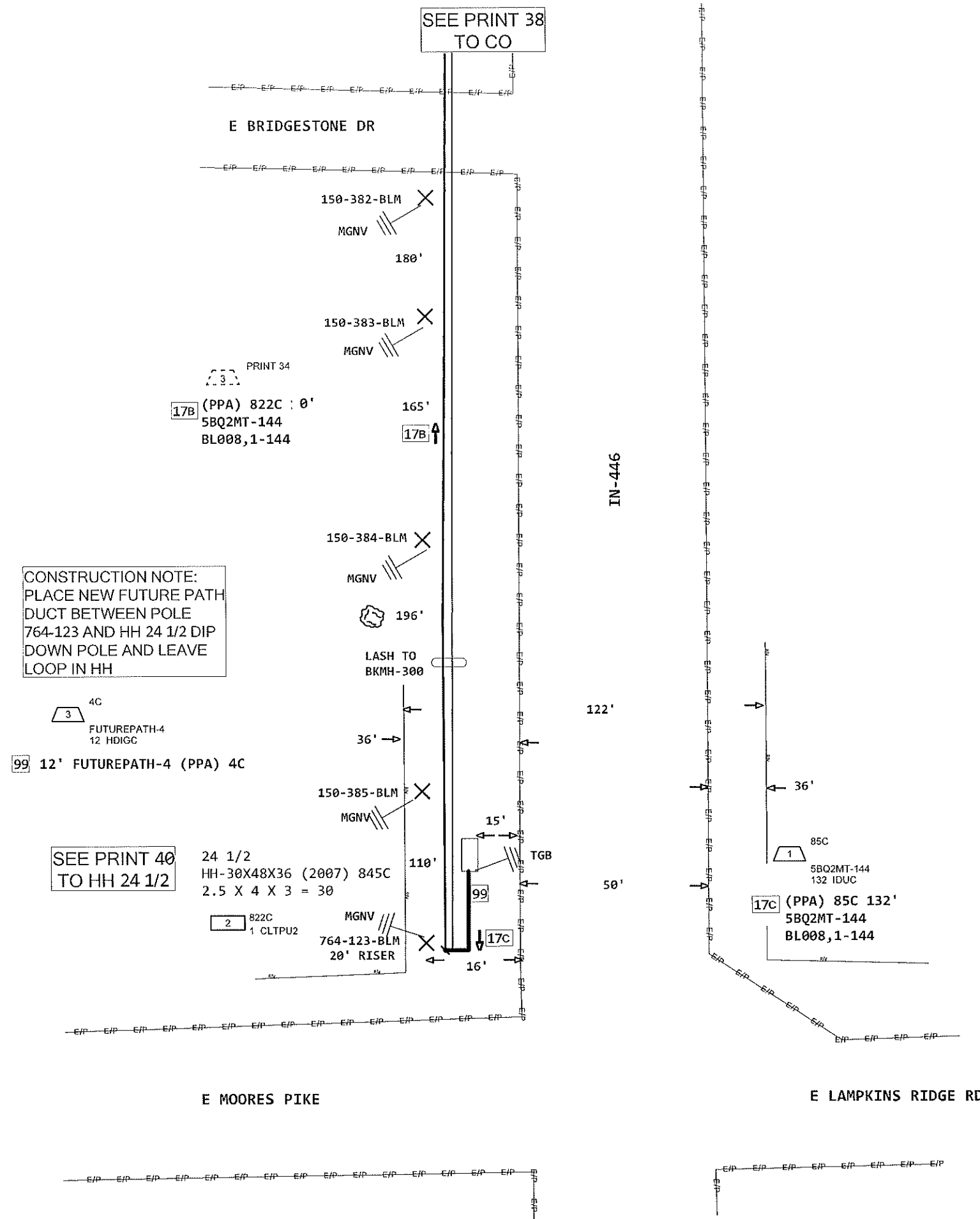
Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 38 OF 43	

CONSTRUCTION NOTES:

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CONSTRUCTION NOTE:
PLACE NEW FUTURE PATH
DUCT BETWEEN POLE
764-123 AND HH 24 1/2 DIP
DOWN POLE AND LEAVE
LOOP IN HH

4C
FUTUREPATH-4
12 HDIGC

99 12' FUTUREPATH-4 (PPA) 4C

SEE PRINT 40
TO HH 24 1/2

24 1/2
HH-30X48X36 (2007) 845C
2.5 X 4 X 3 = 30

2 822C
1 CLTPU2

ASE - BACKBONE
301 N WASHINGTON ST
BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

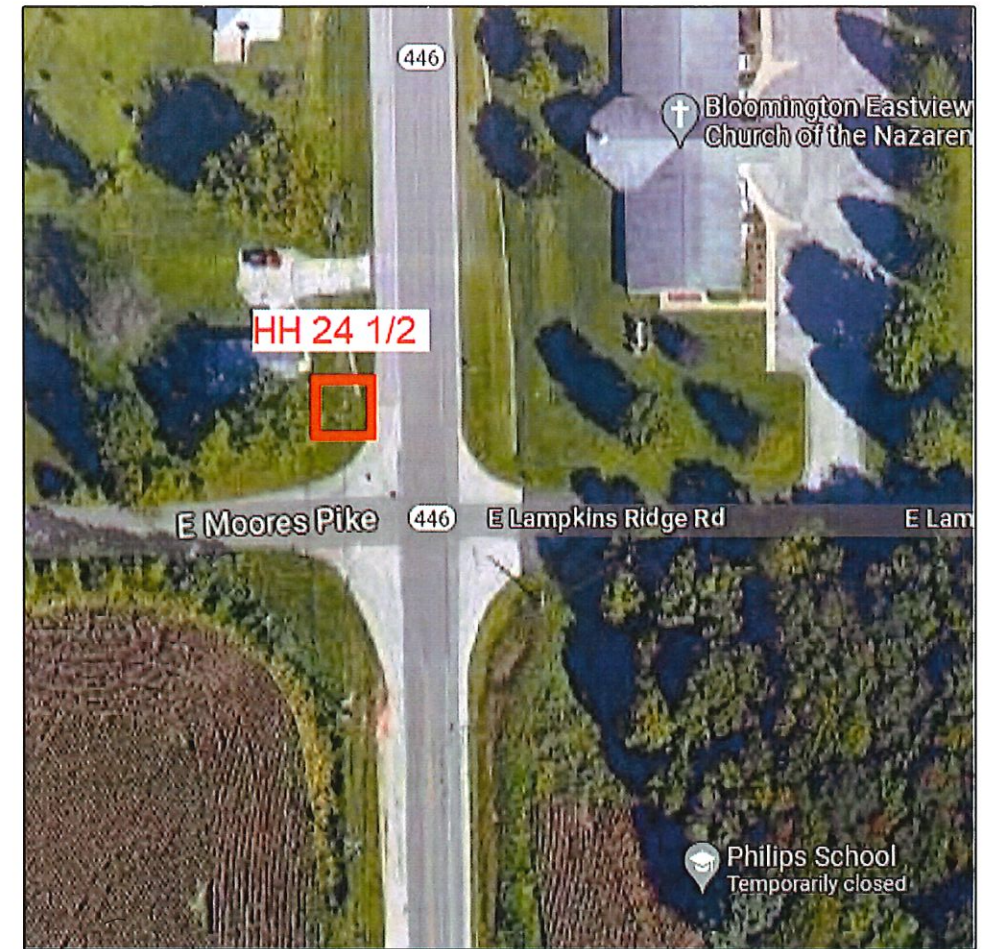
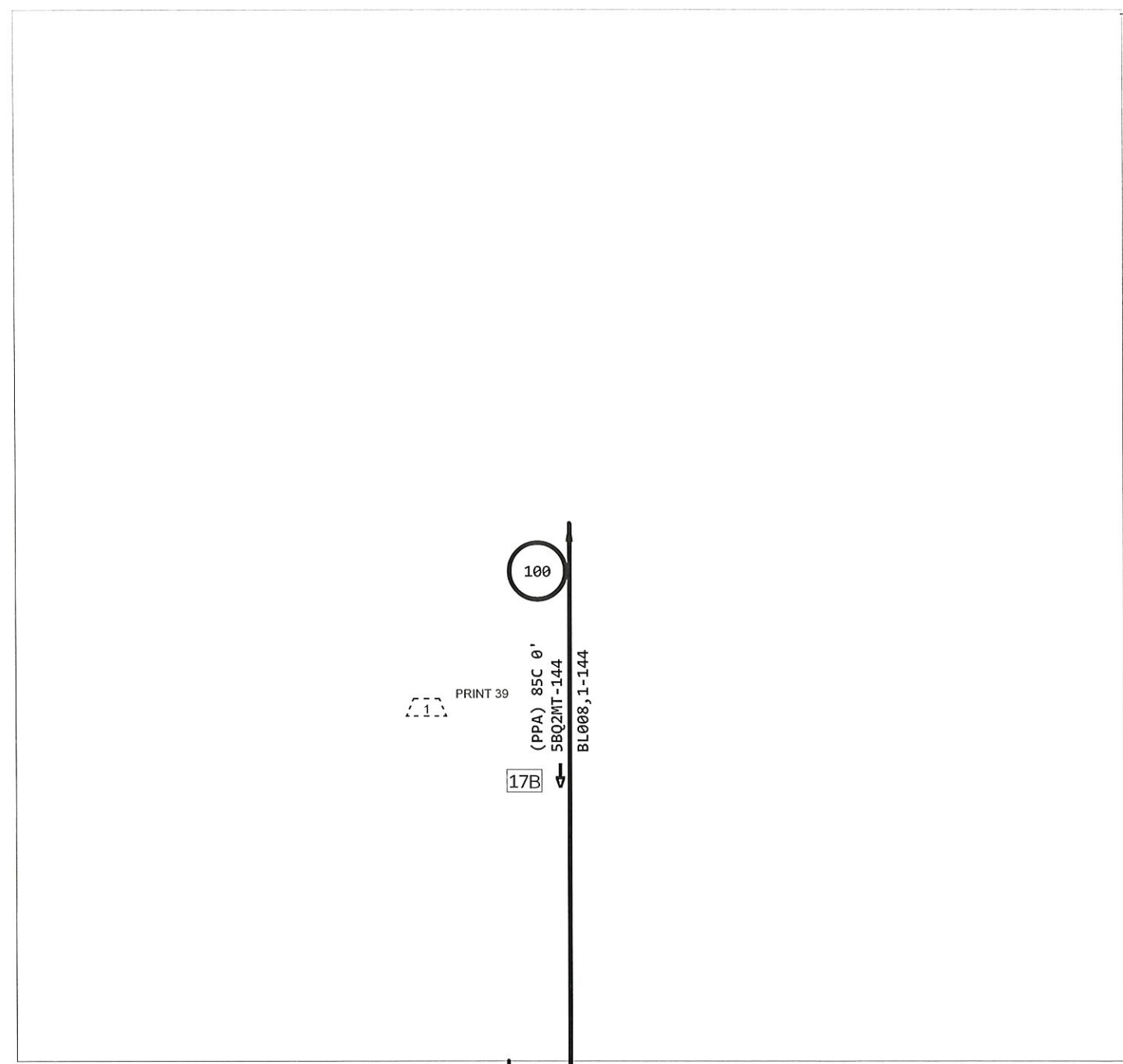
Contractor Name: UNDC

PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
NPANNX 812332	GEO LOC N33171	CLLI bltnin01
PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 39 OF 43	

24 1/2
 HH-30X48X36 (2007) 845C
 2.5 X 4 X 3 = 30

CONSTRUCTION NOTES:

- 1 Think Safety - Work Safely
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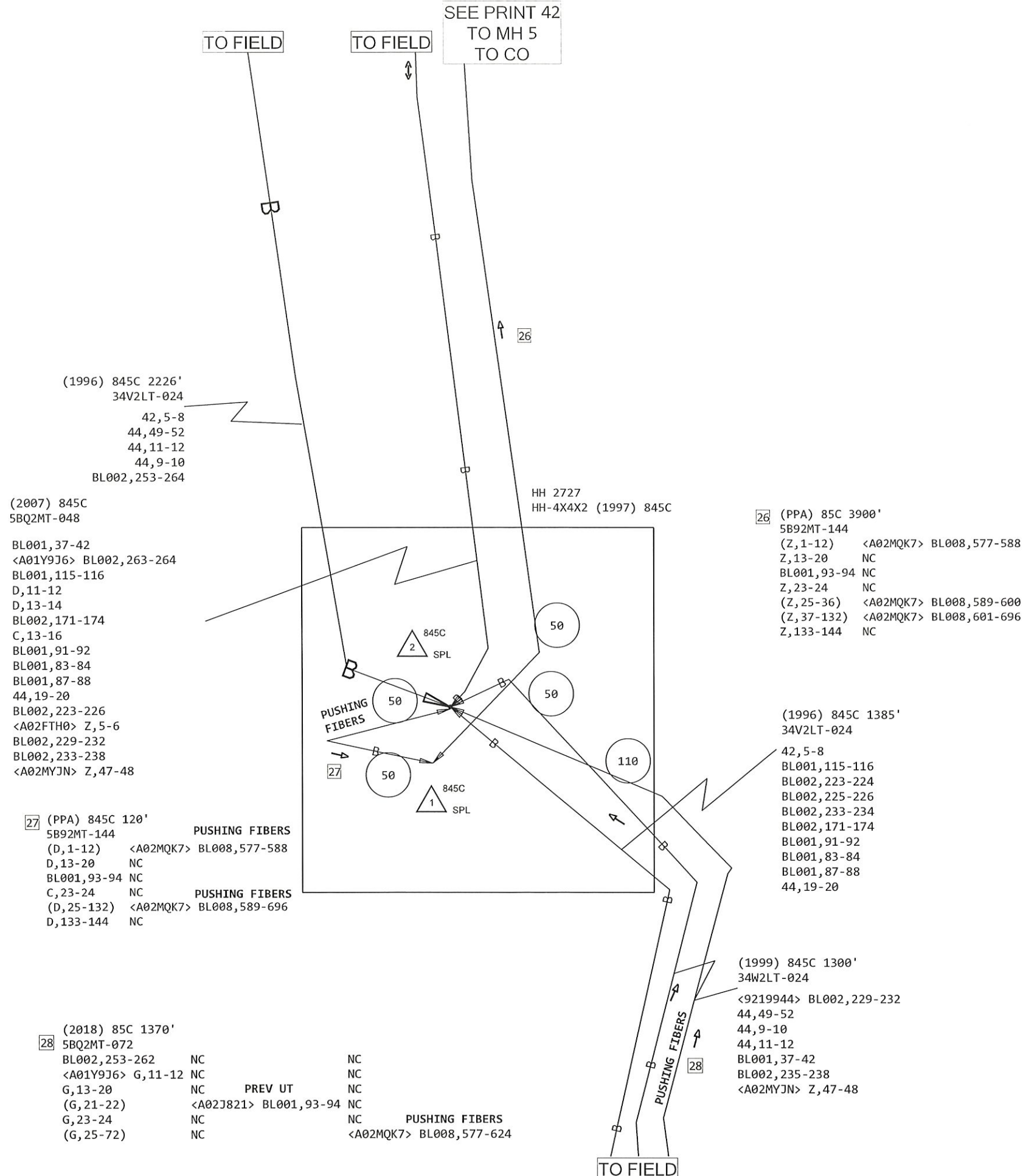
ASE - BACKBONE
 301 N WASHINGTON ST
 BLOOMINGTON-BLOOMINGTON TOWNSHIP-TD 6152

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PROJECT # A02MQK7		DATE SVC REQ'D 08/30/2024
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PRIMARY ENGR.: OWENS, JAMES R		
ENGR. ID: JO3792	PERMIT REQ'D.	Y
PHONE #: 8123344585	PRINT 40 OF 43	

CONSTRUCTION NOTES:

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PRIMARY ENGR.: OWENS, JAMES R			
ENGR. ID: JO3792		PERMIT REQ'D.	Y
PHONE #: 8123344585		PRINT 43 OF 43	



CITY OF BLOOMINGTON

RIGHT-OF-WAY USE PERMIT APPLICATION

401 N Morton Street, Suite 130
P.O. Box 100
Bloomington, IN 47402

Phone: (812) 349-3913
Fax: (812) 349-3520
Email: engineering@bloomington.in.gov

ROW EXCAVATION ROW USE

ADDRESS OF ROW ACTIVITY: _____

<p>A. APPLICANT/AGENT INFORMATION:</p> <p>APPLICANT NAME: <u>BRIAN BUSICK</u></p> <p>E-MAIL: <u>bbusick@linealcontracting.com</u></p> <p>COMPANY: <u>LINEAL CONTRACTING INC.</u></p> <p>ADDRESS: <u>2922 MITCHELL ROAD</u></p> <p>CITY, STATE, ZIP: <u>BEDFORD IN. 47421</u></p> <p>24-HR EMERGENCY CONTACT NAME: <u>BRIAN BUSICK</u></p> <p>24-HR CONTACT PHONE #: <u>812/521/3474</u></p> <p>INSURANCE #*: <u>2118826001</u> COMPANY: <u>HOUCHENS</u></p> <p>BOND #*: <u>107706552</u> COMPANY: <u>TRAVELERS</u></p> <p><small>* INSURANCE & BOND MUST BE ON FILE WITH THE CITY BEFORE PERMIT WILL BE ISSUED</small></p> <p style="text-align: center;">**SUBCONTRACTOR INFORMATION**</p> <p><small>(LIST ALL COMPANIES WORKING UNDER PRIMARY CONTRACTOR PERMIT)</small></p> <p>COMPANY NAME: _____</p>	<p>D. TRAFFIC CONTROL DEVICES*:</p> <p><input checked="" type="checkbox"/> CONES <input type="checkbox"/> ARROWBOARD</p> <p><input type="checkbox"/> LIGHTED BARRELS <input type="checkbox"/> TYPE 3 BARRICADES</p> <p><input checked="" type="checkbox"/> FLAGGERS <input type="checkbox"/> BPD OFFICER</p> <p><small>*PROVIDING MUTCD COMPLIANT TEMPORARY TRAFFIC CONTROL DEVICES AND MAINTENANCE OF TRAFFIC (MOT) PLAN IS YOUR RESPONSIBILITY AND REQUIRED. See page 3 for additional MOT resources; the graph paper can be used for your MOT site plan if needed or you can submit a separate sheet</small></p> <p>E. METERED PARKING SPACES NEEDED: <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><small>IT IS THE RESPONSIBILITY OF THE APPLICANT TO RESERVE PARKING METER(S) APPLICATION LOCATED: https://bloomington.in.gov/transportation/parking/moving OR CONTACT PARKING SERVICES WITH QUESTIONS AT (812)349-3436</small></p> <p>F. IS THIS A <input type="checkbox"/> CBU* <input type="checkbox"/> COUNTY* <input type="checkbox"/> IU* <input type="checkbox"/> NP* PROJECT?</p> <p>PROJECT NAME: <u>WASHINGTON ST</u></p> <p>PROJECT #: <u>A02MQK7</u></p> <p>PROJECT MGR.: <u>JAMES R. OWENS</u></p> <p>PROJECT MGR. #: <u>812-334-4585</u></p> <p><small>*CBU = CITY OF BLOOMINGTON UTILITIES *COUNTY = MONROE COUNTY *IU = INDIANA UNIVERSITY *NP = NOT-FOR-PROFIT AGENCY</small></p> <p>G. EXCAVATIONS:</p> <p>SQ FT OF PAVEMENT* EXCAVATIONS: <u>0</u></p> <p><small>*PAVEMENT INCLUDES: IN OR UNDER CONCRETE, OR ASPHALT INCLUDING CURBS</small></p> <p>SQ FT OF NON-PAVEMENT* EXCAVATIONS: <u>0</u></p> <p><small>*DIRT, GRASS, GRAVEL, LANDSCAPE AREA OR OTHER UNPAVED SURFACE</small></p> <p>LINEAL FT OF BORE*: <u>0</u></p> <p><small>*BORE PITS SHALL BE CALCULATED AS SQ FT EXCAVATIONS</small></p> <p># OF POLE INSTALLATIONS/REMOVAL: <u>0</u></p> <p>SQ FT OF SIDEWALK RECONSTRUCTION*: <u>0</u></p> <p><small>*CONCRETE OR ASPHALT SIDEWALK/PATH BEING IMPROVED/REPLACED</small></p> <p>SQ FT OF SIDEWALK NEW CONSTRUCTION*: <u>0</u></p> <p><small>*CONCRETE OR ASPHALT SIDEWALK/PATH THAT IS NEW INFRASTRUCTURE</small></p> <p># RESIDENTIAL DRIVEWAY INSTALLATION: <u>0</u></p>
<p>B. WORK DESCRIPTION:</p> <p><input type="checkbox"/> POD/DUMPSTER <input type="checkbox"/> CRANE <input type="checkbox"/> SCAFFOLDING <input type="checkbox"/> CONSTRUCTION USE*</p> <p>(EXPLAIN): <u>AERIAL AND UNDERGROUND FIBER PLACEMENT</u></p> <p><small>*EXCAVATION, LONG TERM USE FOR STORAGE OF MATERIAL/EQUIPMENT/AWALKAROUND</small></p> <p>C. RIGHT OF WAY TO BE USED/CLOSED:</p> <p>STREET NAME 1: <u>WASHINGTON ST.</u></p> <p>1ST INTERSECTING STREET NAME: _____</p> <p>2ND INTERSECTING STREET NAME: _____</p> <p><input type="checkbox"/> ROAD CLOSURE <input checked="" type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/></p> <p><input type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER</p> <p>TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N <small>**NON-METERED</small></p> <p>START DATE: <u>1/8/24</u> END DATE: <u>1/31/24</u> # OF DAYS*: <u>23</u></p> <p>STREET NAME 2: <u>10 TH ST.</u></p> <p>1ST INTERSECTING STREET NAME: _____</p> <p>2ND INTERSECTING STREET NAME: _____</p> <p><input type="checkbox"/> ROAD CLOSURE <input checked="" type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/></p> <p><input type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER</p> <p>TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N <small>**NON-METERED</small></p> <p>START DATE: _____ END DATE: _____ # OF DAYS*:</p> <p><small>*SIDEWALK CLOSURES FOR A PERIOD OR PERIODS TOTALING 2 HRS OR MORE SHALL INSTALL A WALKAROUND UNLESS OTHERWISE APPROVED DURING REVIEW</small></p> <p>STANDARD CLOSURE HOURS MON-FRI*: <u>9:00 AM - 3:00 PM & 6:00 PM - 9:00 PM</u></p> <p>STANDARD CLOSURE HOURS <input type="checkbox"/> *NON-STANDARD CLOSURE HOURS <input type="checkbox"/></p> <p>REQUESTED CLOSURE HOURS: _____ AM - _____ PM</p> <p><small>*non-standard hours may not be allowed near schools, on arterials, or other circumstances and are subject to approval during the permitting process BMC 14.09.040 allows work from 6 AM to 10 PM without violating the noise ordinance (7AM to 9PM for pneumatic hammers)</small></p>	<p>H. INDEMNIFICATION AGREEMENT:</p> <p>The petitioner/applicant hereby agrees to hold harmless, defend and to indemnify the City of Bloomington from or against all claims, action, damages and expenses, including but not limited to reasonable attorney's fees or any alleged injury and/or death to any person or damage to any property arising or alleged to have arisen out of any act of commission or omission on the part of the petitioner/applicant, his/her heirs, successors, or assigns regardless of whether such acts are the direct or indirect result of the public right-of-way use pursuant to this permit grant.</p> <p>I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT THE FOREGOING REPRESENTATIONS ARE TRUE.</p> <p>PRINT NAME: <u>BRIAN BUSICK</u></p> <p>SIGNATURE: </p> <p>DATE: <u>12/19/2024</u></p>



TO SUBMIT A LOCATE REQUEST 24 HRS A DAY,
7 DAYS A WEEK
CALL 811 OR 800-382-5544
CALL 2 WORKING DAYS BEFORE YOU DIG.
IT'S THE LAW.

For Administration Use Only (applicable to CLOSURE approval)

Approved By: _____ BPW City Engineer Director Date: _____

Staff Representative: _____ Phone#: _____ Date: _____



Board of Public Works Staff Report

Project/Event:	Sidewalk Closure on S Hawthorne Dr
Staff Representative:	Alex Gray
Petitioner/Representative:	T-Mobile
Date:	January 2 nd , 2024

Report: T-Mobile is requesting a sidewalk closure on the east side of S Hawthorne Dr between E 3rd St and E Atwater Dr for a small cell tower installation. The sidewalk will be closed for 21 days starting March 1st, 2024 and ending March 21st, 2024. T-Mobile will coordinate with IU while they are working in the area. The work will not include the installation of a new pole, instead it is an upgrade to equipment on the existing pole on the east side of S Hawthorne Dr near E Atwater Dr.



T-Mobile
6215 Morenci Trail
Indianapolis, IN 46268
(317) 997-8553



GPD GROUP, INC.:
Matt Laucher
520 South Main Street, Suite 2531
Akron, OH 44311
(317) 295-3180
mlaucher@gpdgroup.com

GPD Job #: 2023746.00.MW02535C.02
December 7, 2023

STRUCTURAL ANALYSIS REPORT

T-MOBILE DESIGNATION: **Client #:** **MW02535C**
 Site Name: **HAWTHORN DR & E 3RD ST ROW**

ANALYSIS CRITERIA: **Codes:** **2017 National Electrical Safety Code (NESC)**
 4 psf Wind Pressure w/ 0.5" ice
 90 mph 3-second gust w/ 0" ice
 40 mph 3-second gust w/ 0.75" ice
 Construction Grade C

SITE DATA: **1018A E 3rd St, Bloomington, Monroe County, IN 47401**
 Latitude 39° 9' 48.87" N, Longitude 86° 31' 12.45" W
 Market: Indianapolis IN
 50' AGL Class H-3 Wood Utility Pole

Dear Melissa Moreno,

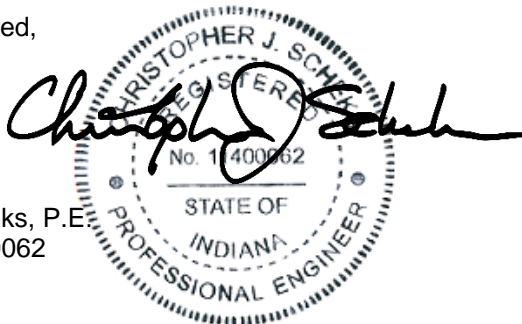
GPD is pleased to submit this Structural Analysis Report to determine the structural integrity of the above-grade portion of above-mentioned structure. The purpose of the analysis is to determine the suitability of the structure with the existing and proposed loading configuration detailed in the analysis report.

Analysis Results

Structure Stress Level with Proposed Equipment: 41.3% Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and T-Mobile. If you have any questions or need further assistance on this or any other projects please do not hesitate to call.

Respectfully submitted,



Christopher J. Scheks, P.E.
Indiana #: PE11400062

12/7/2023

SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing structure is capable of carrying the proposed loading configuration as specified by T-Mobile and commissioned by T-Mobile.

No geotechnical information was available or provided for this report, therefore the foundation capacity could not be verified. This analysis is limited to the above-grade structure only. A full assessment of the foundation capacity will require a site-specific geotechnical report and foundation information.

Line elevations and quantities have been modeled based on scope of work and NESC clearance requirements. Line sizes, weights, and tensions are best estimates based on previous experience with similar structures.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Wood Utility Pole	41.3%	Pass

RECOMMENDATIONS

The tower is sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

ANALYSIS METHOD

O-Calc Pro Line Design (Version 6.02), a commercially available software program, was used to create a three-dimensional model of the pole and calculate member stresses for various load cases. Selected output from the analysis is included the report appendices. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information.

DOCUMENTS PROVIDED

Document	Remarks	Source
RF Data Sheet	RFDS Name: MW02535C, dated 1/18/2022	T-Mobile
Construction Drawings	GPD Project #: 2022746.00.MW02535C.01 Rev. A, dated 2/16/2022	GPD
Previous Construction Drawings w/ Pole Specification	GPD Project #: 2016746.87 Rev. 3.0, dated 9/13/2016	T-Mobile
Tower Design	Not Provided	N/A
Foundation Design	Not Provided	N/A
Geotechnical Report	Not Provided	N/A
Previous Tower Analysis	GPD Job #: 2022746.00.MW02535C.01, dated 3/7/2022	T-Mobile
Mount Modification Design	GPD Job #: 2024746.MW02535C.03, dated 12/7/2023	GPD
Previous Mount Analysis	GPD Job #: 2024746.MW02535C.03, dated 12/7/2023	GPD

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the structure. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The structure is considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The appurtenance configuration is as supplied, determined from available photos, and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
3. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
4. The structure has been installed and maintained in accordance with all applicable standards.
5. All prior structural modifications, if applicable, are assumed to be as per data supplied/available and to have been properly installed.
6. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.
7. All existing and proposed loading has been taken from the available site photos as well as documents supplied to GPD at the time of generating this report. All such documents are listed in the Documents Provided Table and are assumed to be accurate. GPD is not responsible for loading scenarios outside those conveyed in the supplied documentation.
8. All the mount modifications designed by GPD (Job #: 2024746.MW02535C.03, dated 12/7/2023) have been considered in this analysis.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

If the existing conditions are not as represented within the analysis output contained in this report, GPD should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full inspection. The structure and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted components (above and below ground). No allowance was made for loose bolts or cracked welds.

This analysis is limited to the designated maximum wind and seismic conditions per the governing pole standards and code. Wind forces resulting in pole vibrations near the structure's resonant frequencies were not considered in this analysis and are outside the scope of this analysis. Lateral loading from any dynamic response was not evaluated under a time-domain based fatigue analysis.

GPD does not analyze the fabrication of the structure, including welding. It is not possible to have all the detailed information needed to perform a thorough analysis of every structural sub-component and connection of the existing pole. GPD provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this analysis is to verify whether the structure is capable if adding appurtenances usually accompanied by transmission lines to the structure.

The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD, but are beyond the scope of this report.

GPD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Tower Analysis Summary Form

Structure Analysis Summary Form

General Info

Site Name	HAWTHORN DR & E 3RD ST ROW
Site Number	MW02535C
Date of Analysis	12/7/2023
Company Performing Analysis	GPD

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Tower Info	Description	Date
Structure Type (G, SST, MP)	Wood Utility Pole	
Structure Height (top of steel AGL)	50'	
Structure Manufacturer	n/a	
Structure Model	65' Total Length Class H-3 Southern Pine	
Structure Design	n/a	
Foundation Design	n/a	
Geotechnical Report	n/a	
Previous Tower Analysis	n/a	
Tower Mapping	n/a	
Previous Mount Analysis	GPD Job #: 2024746.MW02535C.03	12/7/2023
Mount Modification Design	GPD Job #: 2024746.MW02535C.03	12/7/2023

Design Parameters

Design Code Used	2017 NESC
Location of Tower (County, State)	Monroe, IN

Analysis Results (% Maximum Usage)

Existing/Reserved + Future + Proposed Condition	
Tower (%)	41.3%

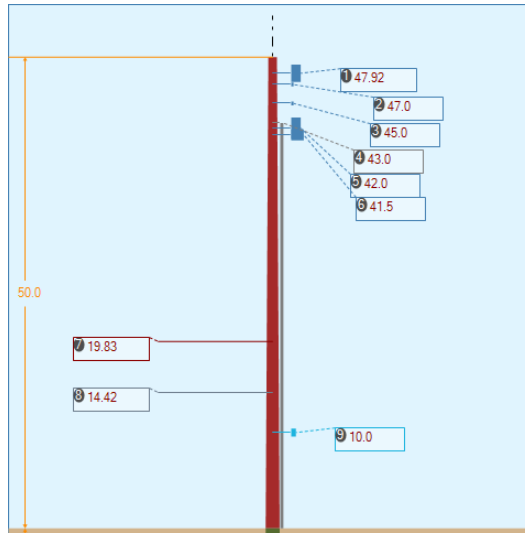
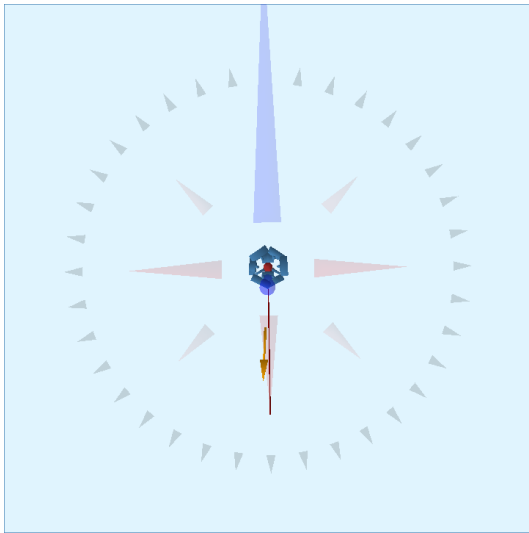
Proposed Loading

Antenna Owner	Mount Height (ft)	Antenna						Mount			Transmission Line			
		Antenna CL (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Type	Quantity	Model	Size	Attachment Int/Ext
T-Mobile	45	45	3	Antenna	Commscope	FFVV-65A-R2-V1	60/180/300	6	Unknown	2 ft Dual Mount Antenna	2	HCS 2.0 Hybrid	1.5"	External
T-Mobile	45	45	3	Antenna	Nokia	AEHC	60/180/300			On the same mounts	2	Conduit	4"	External
T-Mobile	45	45	3	RRH	Nokia	AHFIG				On the same mounts				
T-Mobile	45	45	3	RRH	Nokia	AHLOA				On the same mounts				
T-Mobile	45	45	2	Junction Box	Commscope	HCS 2.0				On the same mounts				

APPENDIX B

O-Calc Output File

Pole Num:	250BD	Pole Length (Mfg) / Class:	62 (65) / H3	Code:	NESC	Structure Type:	Junction
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status:	Unguyed
Aux Data 2	Unset	Setting Depth (ft):	12.0	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	55.91	Loading District:	Heavy	Transverse Wind LF:	1.75
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.50	Wire Tension LF:	1.30
Aux Data 5	Unset	Allowable Stress (psi):	6,800	Wind Speed (mph):	39.53	Vertical LF:	1.90
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	4.00		
Latitude:	39.164142	Longitude:	-86.520172	Elevation:	0M		



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	23.1	183.4
Groundline	23.1	183.4
Vertical	28.7	183.4

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	69,529	183.4
Groundline	69,529	183.4
GL Allowable	313,524	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 181.8°										
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	1,522	57.8	30,256	43.5	9.7	655	26	0	655	9.6
Comms	13	0.5	200	0.3	0.1	4	18	0	4	0.1
GenericEquipments	582	22.1	25,939	37.3	8.3	562	8,992	36	598	8.8
Pole	419	15.9	10,305	14.8	3.3	223	6,530	26	249	3.7
Risers	95	3.6	2,748	4.0	0.9	60	196	1	60	0.9
Insulators	5	0.2	81	0.1	0.0	2	11	0	2	0.0
Pole Load	2,635	100.0	69,529	100.0	22.2	1,505	15,773	63	1,569	23.1
Pole Reserve Capacity			243,995		77.8	5,295			5,231	76.9

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 181.8°										
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	2,217	84.1	59,224	85.2	18.9	1,282	9,243	37	1,319	19.4
Pole	419	15.9	10,305	14.8	3.3	223	6,530	26	249	3.7
Totals:	2,635	100.0	69,529	100.0	22.2	1,505	15,773	63	1,569	23.1

Detailed Load Components:

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Secondary	TRIPLEX 1/0	19.83	20.28	1.0300	0.22	0.399	20.0	180.0	20.0	1,172	30,240	16	0	30,256
Totals:											30,240	16	0	30,256

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Telco	P3-750CA	14.42	20.66	0.7500	0.83	0.161	20.0	180.0	20.1	10	188	12	0	200
Totals:											188	12	0	200

GenericEquipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Box	Standoff	47.00	11.66	0.0	0.0	537.00	5.00	12.00	--	3.00	-993	55	-938

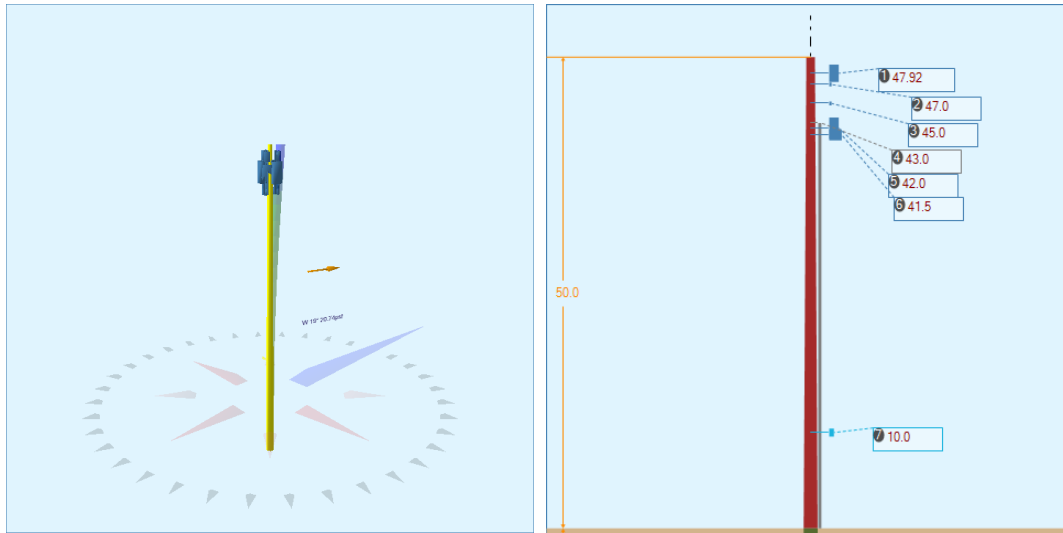
Box	Standoff	47.00	11.66	120.0	0.0	537.00	5.00	12.00	--	3.00	469	185	654
Box	Standoff	47.00	11.66	240.0	0.0	537.00	5.00	12.00	--	3.00	524	172	696
Box	Standoff	45.00	11.80	0.0	0.0	537.00	5.00	12.00	--	3.00	-1,005	53	-952
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	33.3	0.0	60.64	96.00	--	3.50	--	-116	736	620
Box	AHLOA	47.92	19.57	33.3	0.0	83.80	22.00	7.40	--	12.10	-222	839	617
Box	AEHC	45.00	20.00	33.3	0.0	99.20	35.43	8.26	--	22.83	-268	2,364	2,095
Box	AHFIG	42.00	18.47	33.3	0.0	70.50	27.30	5.20	--	12.10	-176	986	810
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	326.7	0.0	60.64	96.00	--	3.50	--	-111	736	625
Box	FFVV-65A-R2-V1	45.00	20.50	326.7	0.0	104.94	48.19	9.25	--	25.20	-279	3,331	3,052
Box	Standoff	45.00	11.80	120.0	0.0	537.00	5.00	12.00	--	3.00	475	177	652
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	86.7	0.0	60.64	96.00	--	3.50	--	-12	736	724
Box	FFVV-65A-R2-V1	45.00	20.50	86.7	0.0	104.94	48.19	9.25	--	25.20	-30	1,591	1,560
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	153.3	0.0	60.64	96.00	--	3.50	--	119	736	855
Box	AHLOA	47.92	19.57	153.3	0.0	83.80	22.00	7.40	--	12.10	229	846	1,075
Box	AEHC	45.00	20.00	153.3	0.0	99.20	35.43	8.26	--	22.83	276	2,402	2,678
Box	AHFIG	42.00	18.47	153.3	0.0	70.50	27.30	5.20	--	12.10	181	1,000	1,181
Box	Standoff	45.00	11.80	240.0	0.0	537.00	5.00	12.00	--	3.00	530	165	695
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	206.7	0.0	60.64	96.00	--	3.50	--	123	736	859
Box	FFVV-65A-R2-V1	45.00	20.50	206.7	0.0	104.94	48.19	9.25	--	25.20	309	3,807	4,116
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	273.3	0.0	60.64	96.00	--	3.50	--	-3	736	733
Box	AHLOA	47.92	19.57	273.3	0.0	83.80	22.00	7.40	--	12.10	-7	571	564
Box	AEHC	45.00	20.00	273.3	0.0	99.20	35.43	8.26	--	22.83	-8	1,026	1,018
Box	AHFIG	42.00	18.47	273.3	0.0	70.50	27.30	5.20	--	12.10	-5	498	492
Box	Junction Box	41.50	12.04	0.0	0.0	23.50	14.00	12.00	--	16.00	-45	724	679
Box	Junction Box	41.50	12.04	180.0	0.0	23.50	14.00	12.00	--	16.00	45	724	769
Box	Electric Meter	10.00	9.21	0.0	0.0	24.25	10.00	2.00	--	6.00	-35	47	11
Totals:											-35	25,975	25,939

Riser	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
4" Conduit 112.5° H:43.0	4" Conduit	43.00	9.45	112.5	112.5	103.20	516.00	4.00	4.00	516.00	27	2,721	2,748
Totals:											27	2,721	2,748

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)	
Deadend	Deadend 12.75"	19.83	0.00	180.0	180.0	3.00	3.80	12.75	0	47	47	
Deadend	Deadend 12.75"	14.42	0.00	180.0	180.0	3.00	3.80	12.75	0	34	34	
Totals:										0	81	81

Pole Buckling													
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	37.12	34.30	16.04	13.02	10.92	17.80	1.60e+6	60.00	57.00	50.00	54,995	549.57	3.48

Pole Num:	250C	Pole Length (Mfg) / Class:	62 (65) / H3	Code:	NESC	Structure Type:	Junction
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250C	Status:	Unguyed
Aux Data 2	Unset	Setting Depth (ft):	12.0	Construction Grade:	B	Pole Strength Factor:	0.75
Aux Data 3	Unset	G/L Circumference (in):	55.91	Loading District:	Special	Transverse Wind LF:	1.00
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:	1.00
Aux Data 5	Unset	Allowable Stress (psi):	6,000	Wind Speed (mph):	90.00	Vertical LF:	1.00
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	20.74	Max 250C Wind (mph)	141.96
Latitude:	39.164142	Longitude:	-86.520172	Elevation:	0M		



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	41.3	0.0
Groundline	41.3	0.0
Vertical	17.1	37.2

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	112,604	18.5
Groundline	112,604	18.5
GL Allowable	276,639	

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
GenericEquipments	1,702	54.3	77,368	68.7	28.0	1,648	4,732	19	1,667	27.8
Pole	1,156	36.8	27,066	24.0	9.8	577	3,437	14	590	9.8
Risers	280	8.9	8,171	7.3	3.0	174	103	0	174	2.9
Pole Load	3,138	100.0	112,604	100.0	40.7	2,399	8,272	33	2,432	40.5
Pole Reserve Capacity			164,035		59.3	3,602			3,568	59.5

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 18.5°										
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	1,983	63.2	85,538	76.0	30.9	1,822	4,836	19	1,841	30.7
Pole	1,156	36.8	27,066	24.0	9.8	577	3,437	14	590	9.8
Totals:	3,138	100.0	112,604	100.0	40.7	2,399	8,272	33	2,432	40.5

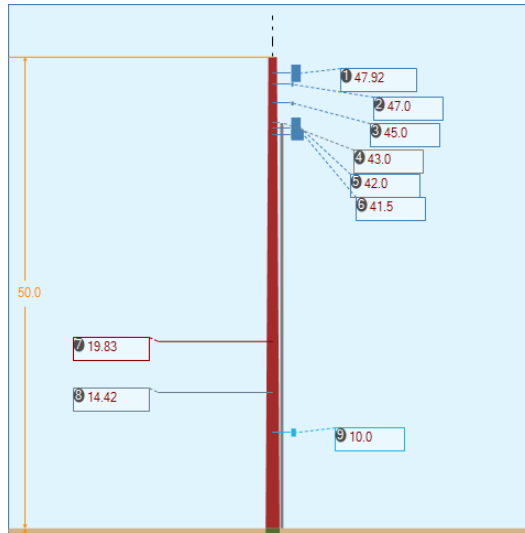
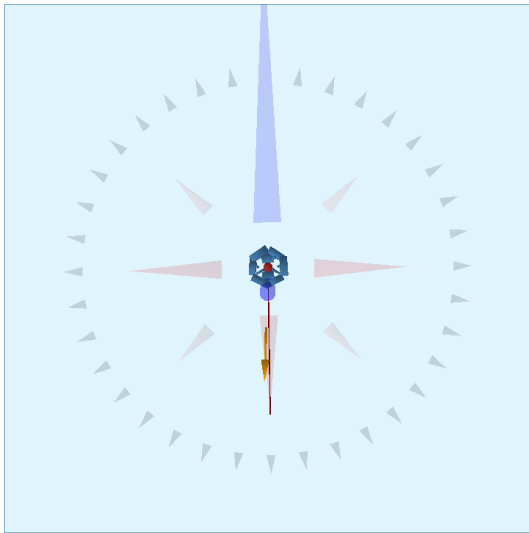
Detailed Load Components:

GenericEquipment		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Box	Junction Box		41.50	12.04	0.0	0.0	23.50	14.00	12.00	--	16.00	23	2,072	2,094
Box	Electric Meter		10.00	9.21	0.0	0.0	24.25	10.00	2.00	--	6.00	18	103	121
Box	Standoff		45.00	11.80	0.0	0.0	537.00	5.00	12.00	--	3.00	510	205	715
Cylinder	Pipe Mount 3.5"x96"		45.00	14.12	326.7	0.0	60.64	96.00	--	3.50	--	45	2,198	2,243
Box	FFVV-65A-R2-V1		45.00	20.50	326.7	0.0	104.94	48.19	9.25	--	25.20	113	7,739	7,852
Cylinder	Pipe Mount 3.5"x96"		45.00	14.12	33.3	0.0	60.64	96.00	--	3.50	--	70	2,198	2,268
Box	AEHC		45.00	20.00	33.3	0.0	99.20	35.43	8.26	--	22.83	163	8,114	8,277
Box	AHLOA		47.92	19.57	33.3	0.0	83.80	22.00	7.40	--	12.10	135	2,716	2,850
Box	AHFIG		42.00	18.47	33.3	0.0	70.50	27.30	5.20	--	12.10	107	3,329	3,436
Box	Standoff		45.00	11.80	120.0	0.0	537.00	5.00	12.00	--	3.00	-108	609	502
Cylinder	Pipe Mount 3.5"x96"		45.00	14.12	86.7	0.0	60.64	96.00	--	3.50	--	27	2,198	2,225
Box	FFVV-65A-R2-V1		45.00	20.50	86.7	0.0	104.94	48.19	9.25	--	25.20	68	5,776	5,844
Cylinder	Pipe Mount 3.5"x96"		45.00	14.12	153.3	0.0	60.64	96.00	--	3.50	--	-51	2,198	2,146
Box	AEHC		45.00	20.00	153.3	0.0	99.20	35.43	8.26	--	22.83	-119	5,742	5,623
Box	AHLOA		47.92	19.57	153.3	0.0	83.80	22.00	7.40	--	12.10	-98	2,240	2,142
Box	AHFIG		42.00	18.47	153.3	0.0	70.50	27.30	5.20	--	12.10	-78	2,463	2,385
Box	Standoff		45.00	11.80	240.0	0.0	537.00	5.00	12.00	--	3.00	-403	364	-39
Cylinder	Pipe Mount 3.5"x96"		45.00	14.12	206.7	0.0	60.64	96.00	--	3.50	--	-72	2,198	2,126
Box	FFVV-65A-R2-V1		45.00	20.50	206.7	0.0	104.94	48.19	9.25	--	25.20	-181	12,544	12,363
Cylinder	Pipe Mount 3.5"x96"		45.00	14.12	273.3	0.0	60.64	96.00	--	3.50	--	-19	2,198	2,179
Box	AEHC		45.00	20.00	273.3	0.0	99.20	35.43	8.26	--	22.83	-44	3,436	3,392
Box	AHLOA		47.92	19.57	273.3	0.0	83.80	22.00	7.40	--	12.10	-36	1,778	1,742
Box	AHFIG		42.00	18.47	273.3	0.0	70.50	27.30	5.20	--	12.10	-29	1,622	1,593
Box	Standoff		47.00	11.66	0.0	0.0	537.00	5.00	12.00	--	3.00	504	216	720
Box	Standoff		47.00	11.66	120.0	0.0	537.00	5.00	12.00	--	3.00	-106	642	536
Box	Standoff		47.00	11.66	240.0	0.0	537.00	5.00	12.00	--	3.00	-398	383	-15
Box	Junction Box		41.50	12.04	180.0	0.0	23.50	14.00	12.00	--	16.00	-23	2,072	2,049
Totals:												18	77,350	77,368

Riser	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
4" Conduit 112.5° H:43.0	4" Conduit	43.00	9.45	112.5	112.5	103.20	516.00	4.00	4.00	516.00	-5	8,176	8,171
Totals:											-5	8,176	8,171

Pole Buckling													
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	37.17	34.31	16.04	11.44	10.92	17.80	1.60e+6	60.00	56.00	50.00	48,363	483.77	5.85

Pole Num:	250BD	Pole Length (Mfg) / Class:	62 (65) / H3	Code:	NESC	Structure Type:	Junction
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250D	Status:	Unguyed
Aux Data 2	Unset	Setting Depth (ft):	12.0	Construction Grade:	B	Pole Strength Factor:	0.75
Aux Data 3	Unset	G/L Circumference (in):	55.91	Loading District:	Special	Transverse Wind LF:	1.00
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.60	Wire Tension LF:	1.00
Aux Data 5	Unset	Allowable Stress (psi):	6,000	Wind Speed (mph):	40.00	Vertical LF:	1.00
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	4.10	Max 250C Wind (mph)	132.84
Latitude:	39.164142	Longitude:	-86.520172	Elevation:	0M		



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	17.3	0.0
Groundline	17.3	0.0
Vertical	17.1	37.1

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	46,295	181.2
Groundline	46,295	181.2
GL Allowable	276,639	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 181.2°										
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	1,171	64.2	23,274	50.3	8.4	504	16	0	504	8.4
Comms	10	0.5	152	0.3	0.1	3	12	0	3	0.1
GenericEquipments	341	18.7	15,179	32.8	5.5	329	4,732	19	348	5.8
Pole	245	13.4	6,029	13.0	2.2	131	3,437	14	144	2.4
Risers	55	3.0	1,613	3.5	0.6	35	103	0	35	0.6
Insulators	3	0.2	47	0.1	0.0	1	6	0	1	0.0
Pole Load	1,825	100.0	46,295	100.0	16.7	1,002	8,306	33	1,036	17.3
Pole Reserve Capacity			230,344		83.3	4,998			4,964	82.7

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 181.2°										
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	1,580	86.6	40,266	87.0	14.6	872	4,869	20	891	14.9
Pole	245	13.4	6,029	13.0	2.2	131	3,437	14	144	2.4
Totals:	1,825	100.0	46,295	100.0	16.7	1,002	8,306	33	1,036	17.3

Detailed Load Components:

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Secondary	TRIPLEX 1/0	19.83	20.28	1.0300	0.22	0.399	20.0	180.0	20.0	1,172	23,264	10	0	23,274
Totals:											23,264	10	0	23,274

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Telco	P3-750CA	14.42	20.66	0.7500	0.83	0.161	20.0	180.0	20.1	10	144	8	0	152
Totals:											144	8	0	152

GenericEquipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Box	Junction Box	41.50	12.04	0.0	0.0	23.50	14.00	12.00	--	16.00	-24	424	400

Box	Electric Meter	10.00	9.21	0.0	0.0	24.25	10.00	2.00	--	6.00	-19	27	9
Box	Standoff	45.00	11.80	0.0	0.0	537.00	5.00	12.00	--	3.00	-529	31	-498
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	326.7	0.0	60.64	96.00	--	3.50	--	-59	431	372
Box	FFVV-65A-R2-V1	45.00	20.50	326.7	0.0	104.94	48.19	9.25	--	25.20	-148	1,966	1,818
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	33.3	0.0	60.64	96.00	--	3.50	--	-61	431	370
Box	AEHC	45.00	20.00	33.3	0.0	99.20	35.43	8.26	--	22.83	-140	1,372	1,232
Box	AHLOA	47.92	19.57	33.3	0.0	83.80	22.00	7.40	--	12.10	-116	489	373
Box	AHFIG	42.00	18.47	33.3	0.0	70.50	27.30	5.20	--	12.10	-92	573	481
Box	Standoff	45.00	11.80	120.0	0.0	537.00	5.00	12.00	--	3.00	255	103	357
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	86.7	0.0	60.64	96.00	--	3.50	--	-6	431	425
Box	FFVV-65A-R2-V1	45.00	20.50	86.7	0.0	104.94	48.19	9.25	--	25.20	-14	927	913
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	153.3	0.0	60.64	96.00	--	3.50	--	63	431	494
Box	AEHC	45.00	20.00	153.3	0.0	99.20	35.43	8.26	--	22.83	146	1,416	1,562
Box	AHLOA	47.92	19.57	153.3	0.0	83.80	22.00	7.40	--	12.10	121	497	618
Box	AHFIG	42.00	18.47	153.3	0.0	70.50	27.30	5.20	--	12.10	96	589	685
Box	Standoff	45.00	11.80	240.0	0.0	537.00	5.00	12.00	--	3.00	274	97	371
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	206.7	0.0	60.64	96.00	--	3.50	--	65	431	495
Box	FFVV-65A-R2-V1	45.00	20.50	206.7	0.0	104.94	48.19	9.25	--	25.20	162	2,214	2,376
Cylinder	Pipe Mount 3.5"x96"	45.00	14.12	273.3	0.0	60.64	96.00	--	3.50	--	-3	431	428
Box	AEHC	45.00	20.00	273.3	0.0	99.20	35.43	8.26	--	22.83	-6	601	595
Box	AHLOA	47.92	19.57	273.3	0.0	83.80	22.00	7.40	--	12.10	-5	334	329
Box	AHFIG	42.00	18.47	273.3	0.0	70.50	27.30	5.20	--	12.10	-4	291	287
Box	Standoff	47.00	11.66	0.0	0.0	537.00	5.00	12.00	--	3.00	-523	32	-491
Box	Standoff	47.00	11.66	120.0	0.0	537.00	5.00	12.00	--	3.00	252	107	359
Box	Standoff	47.00	11.66	240.0	0.0	537.00	5.00	12.00	--	3.00	271	102	373
Box	Junction Box	41.50	12.04	180.0	0.0	23.50	14.00	12.00	--	16.00	24	424	447
Totals:											-19	15,198	15,179

Riser	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
4" Conduit 112.5° H:43.0	4" Conduit	43.00	9.45	112.5	112.5	103.20	516.00	4.00	4.00	516.00	28	1,585	1,613
Totals:											28	1,585	1,613

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)	
Deadend	Deadend 12.75"	19.83	0.00	180.0	180.0	3.00	3.80	12.75	0	27	27	
Deadend	Deadend 12.75"	14.42	0.00	180.0	180.0	3.00	3.80	12.75	0	20	20	
Totals:										0	47	47

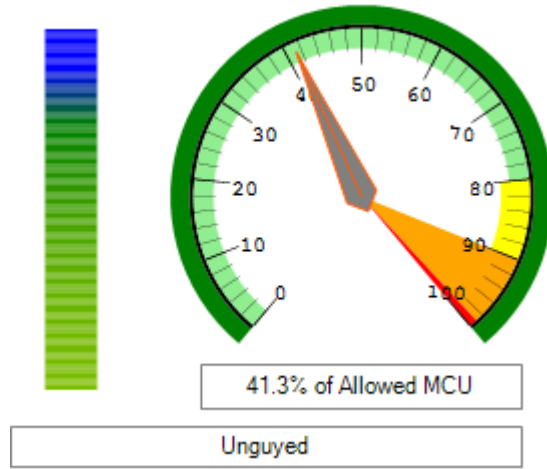
Pole Buckling													
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	37.11	34.30	16.04	11.44	10.92	17.80	1.60e+6	60.00	57.00	50.00	48,553	485.75	5.85

O-Calc® Pro Capacity Summary Info

Pole Identification: 250C

Report Created: 12/1/2023

File: MW02535C.pplx

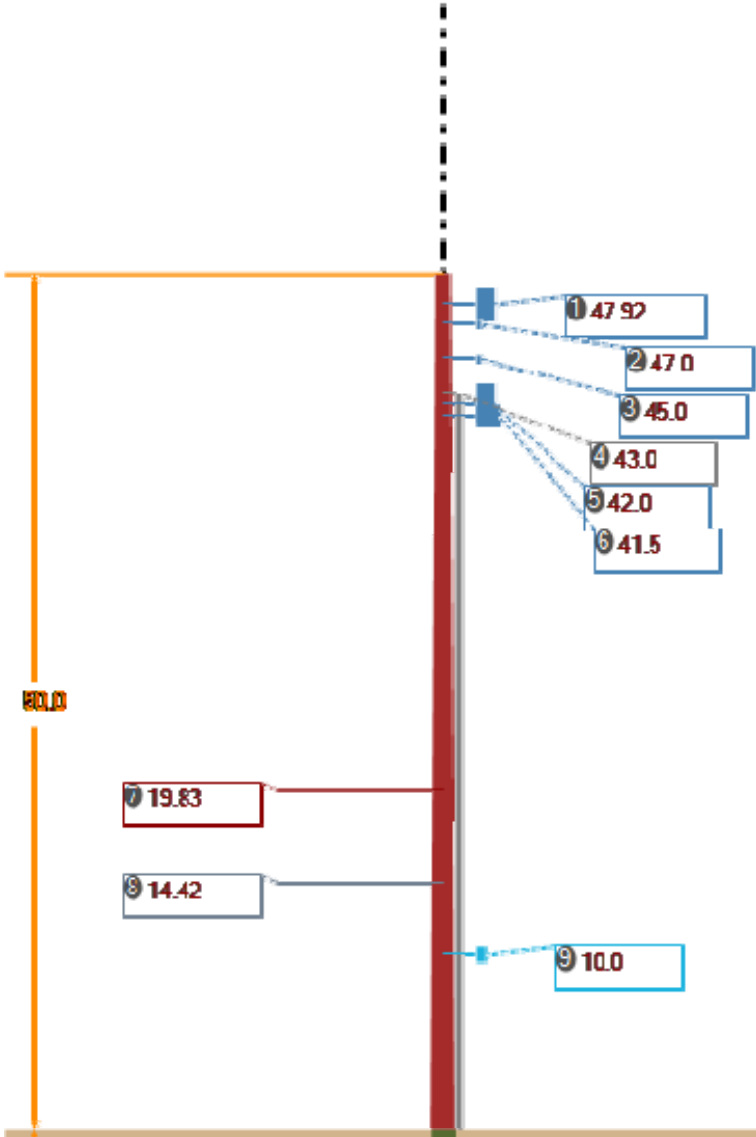


O-Calc® Pro Schematic View

Pole Identification: 250BD

Report Created: 12/1/2023

File: MW02535C.pplx



1 - 47.92
AHLOA
AHLOA
AHLOA
2 - 47.0
Standoff H:47.0
Standoff H:47.0
Standoff H:47.0

3 - 45.0

Standoff H:45.0
Pipe Mount 3.5"x96"
AEHC
Pipe Mount 3.5"x96"
FFVV-65A-R2-V1
Standoff H:45.0
Pipe Mount 3.5"x96"
FFVV-65A-R2-V1
Pipe Mount 3.5"x96"
AEHC
Standoff H:45.0
Pipe Mount 3.5"x96"
FFVV-65A-R2-V1
Pipe Mount 3.5"x96"
AEHC

4 - 43.0

4" Conduit 112.5° H:43.0

5 - 42.0

AHFIG
AHFIG
AHFIG

6 - 41.5

Junction Box H:41.5
Junction Box H:41.5

7 - 19.83

Secondary 180° 20.0 1.030" (TRIPLEX 1/0)

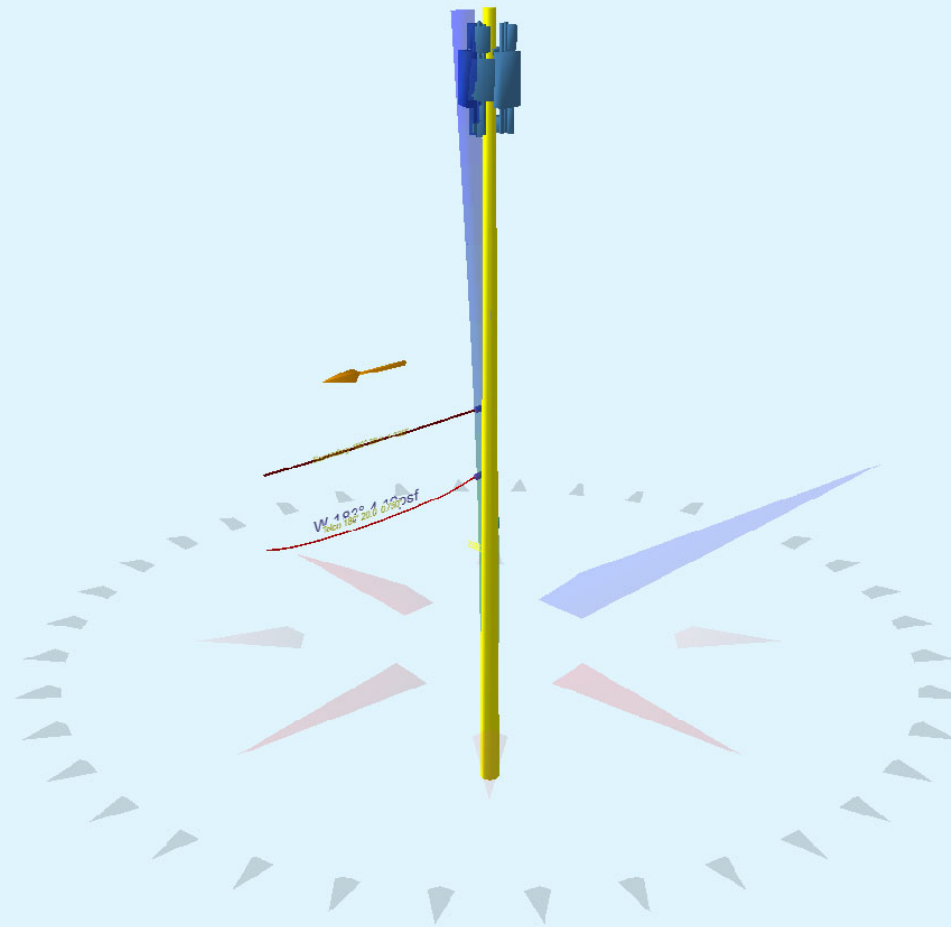
8 - 14.42

Telco 180° 20.0 0.750" (P3-750CA)

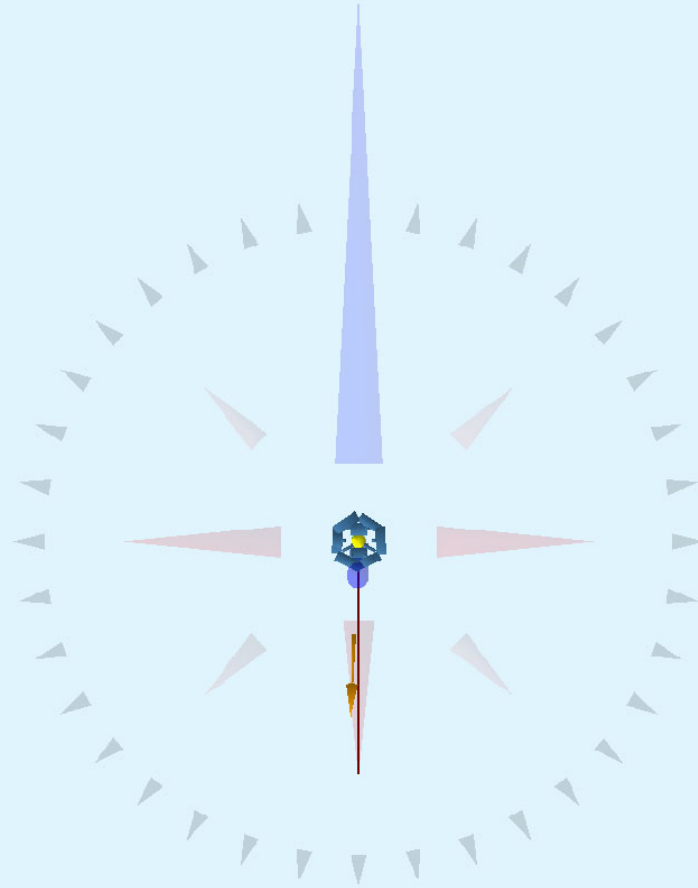
9 - 10.0

Electric Meter H:10.0

250BD



250BD





SITE NAME: HAWTHORN DR & E 3RD ST - 50' ROW
 SITE NUMBER: MW02535C
 STRUCTURE TYPE: UTILITY POLE
 MARKET: INDIANAPOLIS
 PROJECT: ANCHOR



6215 MORENCI TRAIL
 INDIANAPOLIS, IN 46268
 (317) 347-7071

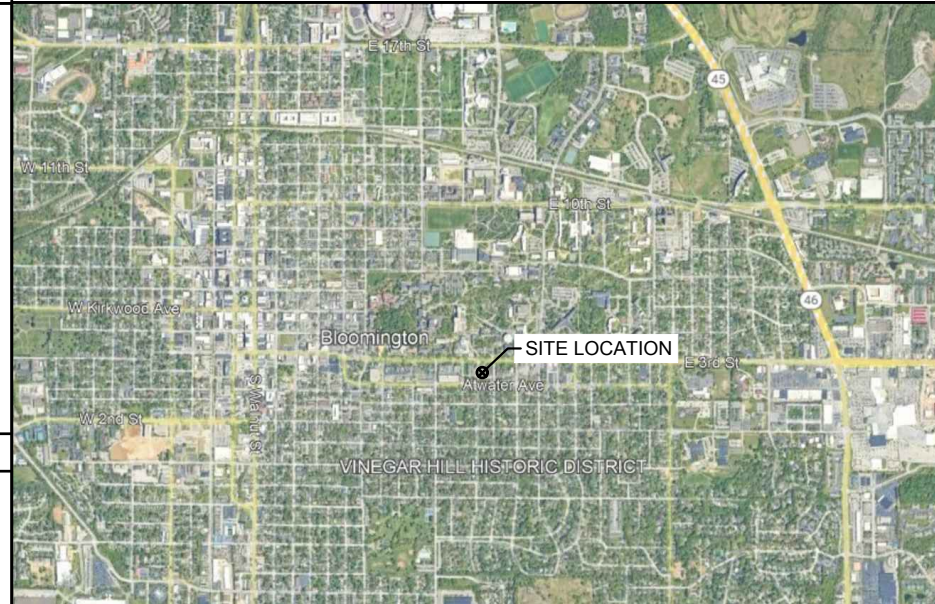


520 South Main Street, Suite 2531
 Akron, OH 44311
 Fax 330.572.2101

SCOPE OF WORK

1. THE WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY.
2. THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.
3. THE SCOPE OF WORK CONSISTS OF:
 - ROTATE EXISTING COLLAR MOUNT AS REQ'D TO ELIMINATE ANTENNA SKEW (TOWER)
 - CUT TOP OF POLE TO 50' AGL (TOWER)
 - INSTALLATION OF MOUNT MODIFICATIONS PER MODIFICATION DESIGN (TOWER)
 - INSTALLATION OF (3) ANTENNAS (TOWER)
 - INSTALLATION OF HCS 2.0 HYBRID CABLE W/PENDANT (TOWER)
 - INSTALLATION OF HCS 2.0 JUNCTION BOX (GROUND)
 - REMOVAL & INSTALLATION OF EQUIPMENT W/IN EXISTING DELTA HPL2 CABINET

VICINITY MAP



LOCAL MAP



APPLICABLE CODES

- ALL CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE ACCEPTED EDITION OF THE FOLLOWING:
- 2014 INDIANA BUILDING CODE (IBC 2012) OR LATEST EDITION
 - 2008 NATIONAL ELECTRIC CODE (NFPA 70) OR LATEST EDITION
 - TIA/EIA-222-REVISION G
 - ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS

SITE INFORMATION

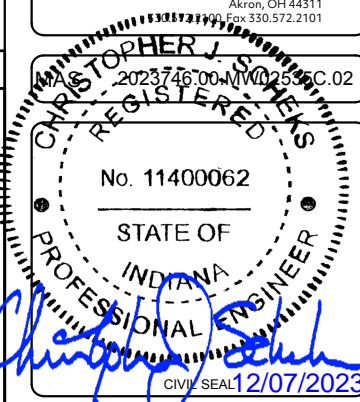
SITE NAME:	HAWTHORN DR & E 3RD ST - 50' ROW
SITE NUMBER:	MW02535C
SITE ADDRESS:	1018A E 3RD ST
	BLOOMINGTON, IN 47401
COUNTY:	MONROE COUNTY
JURISDICTION:	CITY OF BLOOMINGTON
PARCEL ID:	N/A (RIGHT OF WAY)
LATITUDE:	39° 09' 48.87" N (39.163575°)
LONGITUDE:	86° 31' 12.45" W (-86.520126°)

APPROVALS

T-MOBILE OPERATIONS:	_____	DATE	_____
T-MOBILE RF ENGINEER:	_____	DATE	_____
ZONING ADMINISTRATOR:	_____	DATE	_____
SITE ACQUISITION MANAGER:	_____	DATE	_____
CONSTRUCTION MANAGER:	_____	DATE	_____
TOWER OWNER:	_____	DATE	_____
POWER APPROVAL:	_____	DATE	_____
FIBER APPROVAL:	_____	DATE	_____

SHEET INDEX

T-1	TITLE PAGE
C-1	SITE PLAN
C-2	EQUIPMENT PLAN
C-3	TOWER ELEVATION & ANTENNA LAYOUT
C-3.1	PROPOSED EQUIPMENT LAYOUTS
C-4	EQUIPMENT SPACE
RF-1	RFDS & COLOR CODE DETAILS
RF-2	EQUIPMENT DETAILS
E-1	ELECTRICAL DETAILS
G-1	GROUNDING DETAILS & NOTES
N-1	GENERAL NOTES
N-2	GENERAL NOTES
N-3	GENERAL NOTES
ATTACHED	MOUNT MODIFICATION DESIGN



THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPERTY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CLIENT NAME IS STRICTLY PROHIBITED

HAWTHORN DR & E 3RD ST - 50' ROW

MW02535C

NO.	REVISION/ISSUE	DATE
A	ISSUED FOR REVIEW	10/25/23
0	ISSUED FOR CONSTRUCTION	12/07/23

TITLE: TITLE PAGE

SHEET: T-1



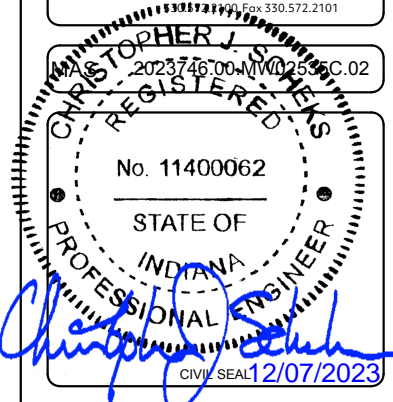
ARCHITECT/ENGINEER
 GPD GROUP, INC.
 520 SOUTH MAIN ST
 SUITE 2531
 AKRON, OH 44311
 (330) 572-2100

APPLICANT
 T-MOBILE
 6215 MORENCI TRAIL
 INDIANAPOLIS, IN 46268
 (317) 347-7071

SITE ADDRESS
 1018A E 3RD ST
 BLOOMINGTON, IN 47401
 MONROE COUNTY



520 South Main Street, Suite 2531
Akron, OH 44311
Tel: 330.572.2101



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THAN THAT WHICH RELATES TO
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PROHIBITED

HAWTHORN DR & E 3RD ST - 50' ROW

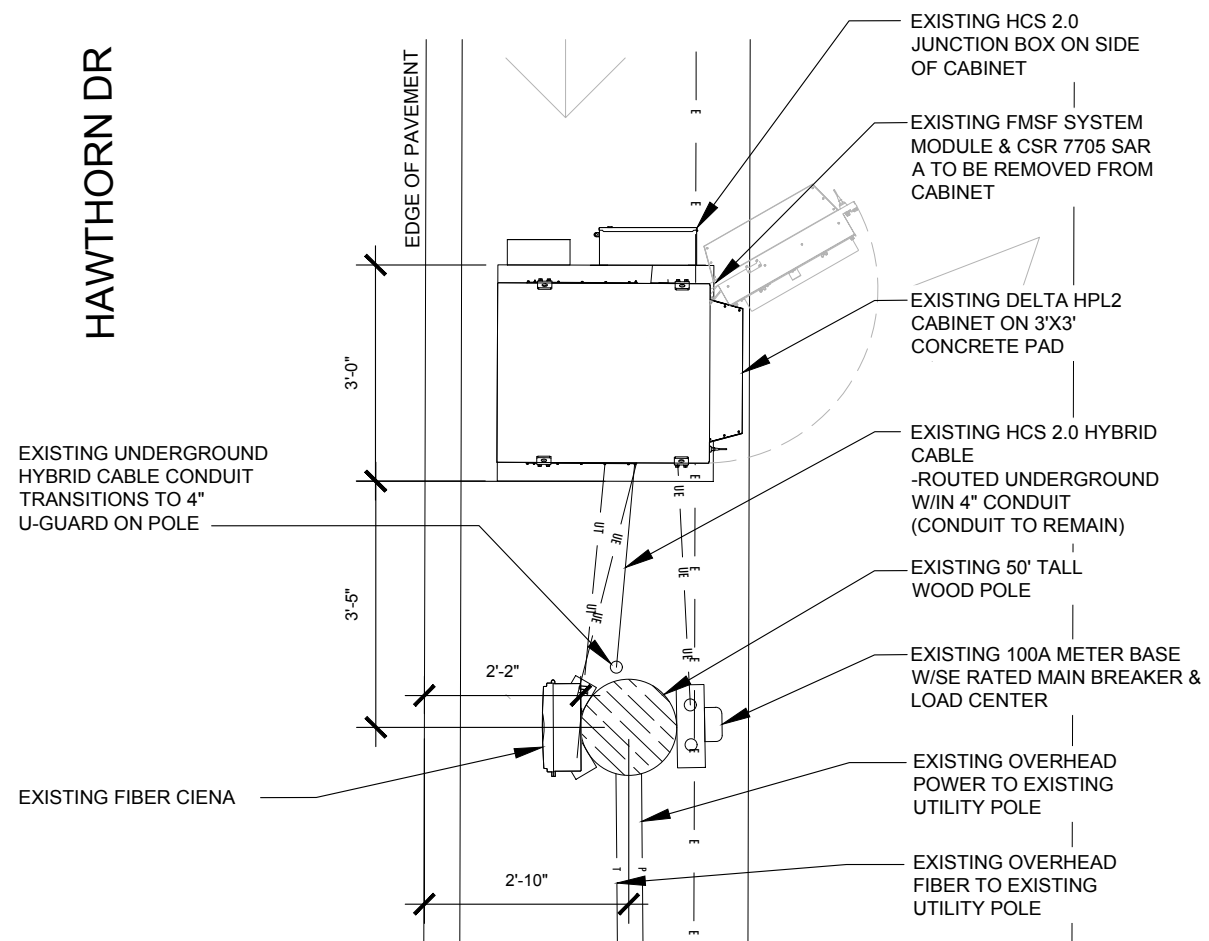
MW02535C

NO.	REVISION/ISSUE	DATE
A	ISSUED FOR REVIEW	10/25/23
0	ISSUED FOR CONSTRUCTION	12/07/23

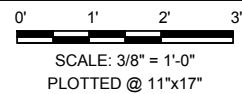
TITLE:
EQUIPMENT PLAN

SHEET:
C-2

HAWTHORN DR

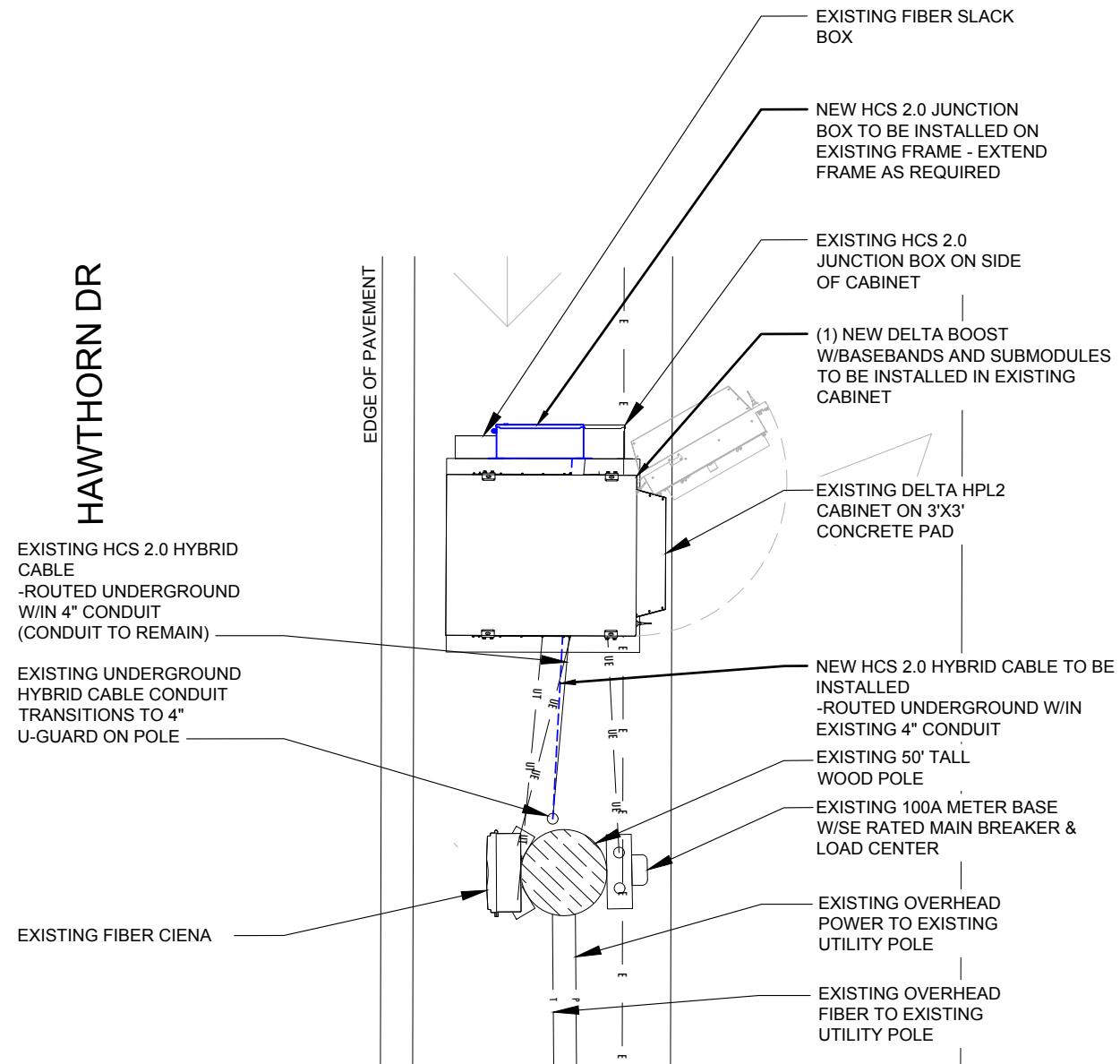


EXISTING EQUIPMENT PLAN

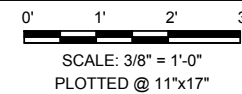


NOTES:
1. REFER TO SHEET C-1 FOR LOCATION AND ORIENTATION.

HAWTHORN DR



PROPOSED EQUIPMENT PLAN



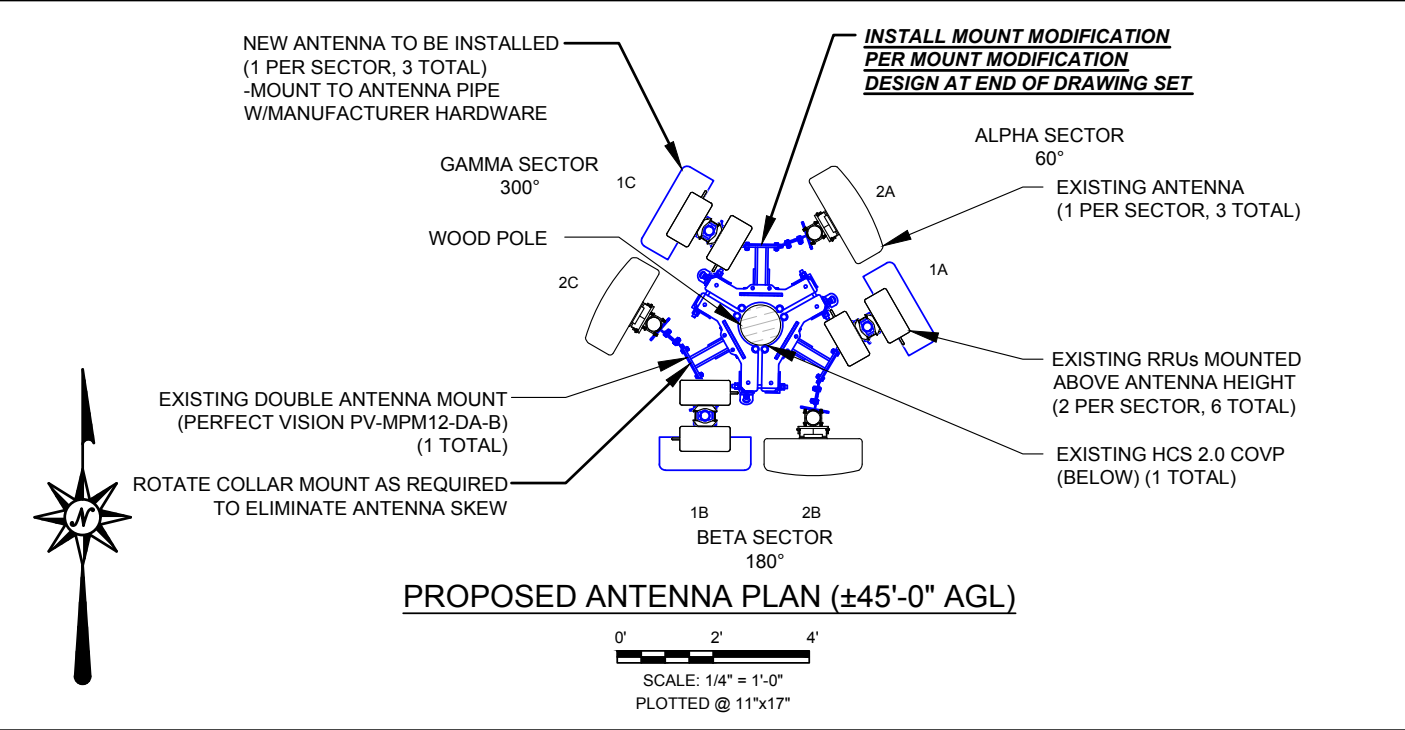
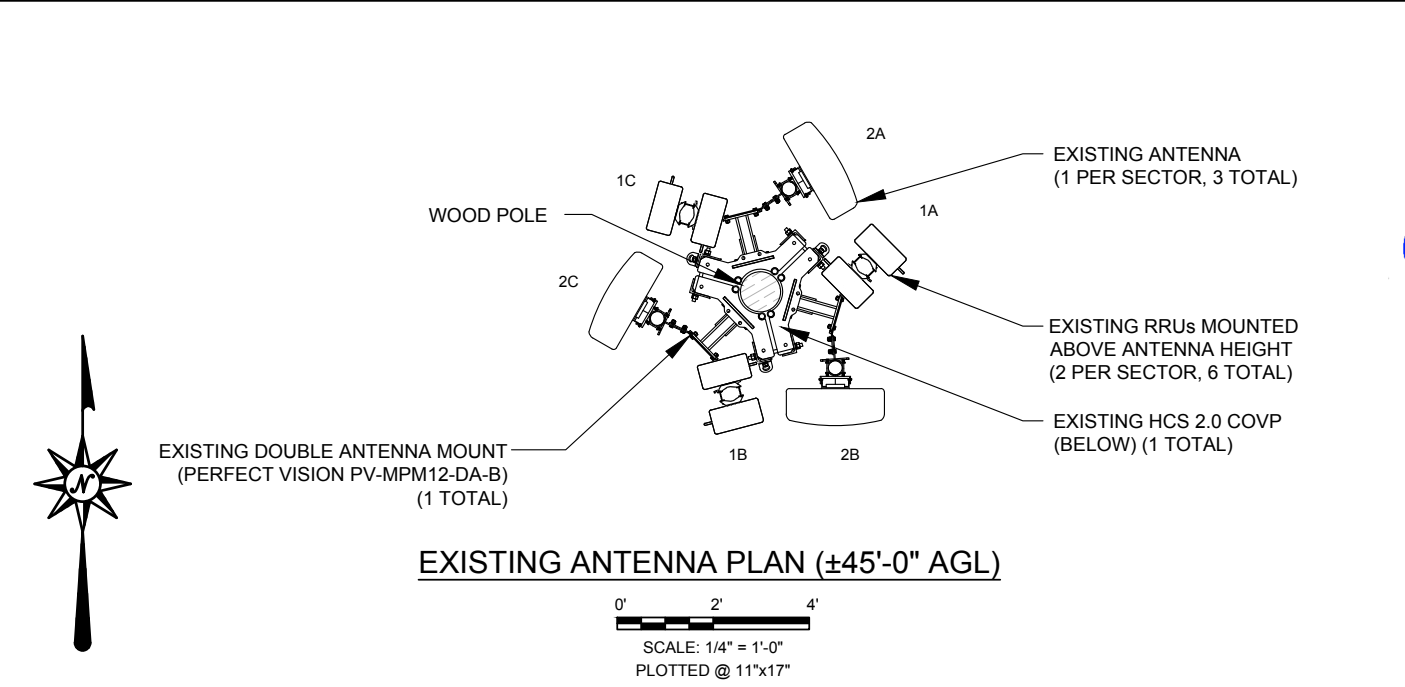
NOTES:
1. REFER TO SHEET C-1 FOR LOCATION AND ORIENTATION.



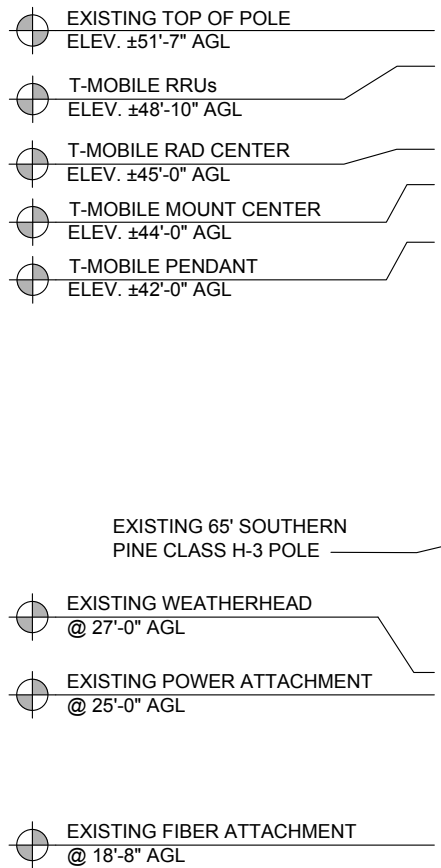
RF/TOWER TOP EQUIPMENT SCHEDULE

SECTOR	ANTENNA POSITION	ANTENNA MODEL	MECH DOWN TILT	ELEC DOWN TILT	AZIMUTH	ANTENNA RAD CENTER	DIPLEXER MODEL #	ADDITIONAL EQUIPMENT
A	1A	NOKIA AEHC	0°	T.B.D.	60°	45'-0"	N/A	AHLOA (3 TOTAL) AHFIG (3 TOTAL) HCS 2.0 PENDANT (2 TOTAL)
A	2A	COMMSCOPE-FFVV-65A-R2-V1	0°	T.B.D.	60°	45'-0"	N/A	
B	1B	NOKIA AEHC	0°	T.B.D.	180°	45'-0"	N/A	
B	2B	COMMSCOPE-FFVV-65A-R2-V1	0°	T.B.D.	180°	45'-0"	N/A	
C	1C	NOKIA AEHC	0°	T.B.D.	300°	45'-0"	N/A	
C	2C	COMMSCOPE-FFVV-65A-R2-V1	0°	T.B.D.	300°	45'-0"	N/A	

NOTE:
 REFER TO THE MOST CURRENT RFDS SHEET FOR FINAL ANTENNA CONFIGURATIONS AND AZIMUTH DETAILS. COORDINATE WITH T-MOBILE PERSONNEL.



CONTRACTOR SHALL CUT TOP OF EXISTING POLE TO 50' AGL



NOTE:
 ANTENNA & MOUNT PIPE HEIGHT NOT TO EXCEED TOP OF FINISHED POLE

INSTALL MOUNT MODIFICATION PER MOUNT MODIFICATION DESIGN AT END OF DRAWING SET

EXISTING T-MOBILE EQUIPMENT
 (3) ANTENNAS
 (6) RRUs
 (1) HCS 2.0 COVP

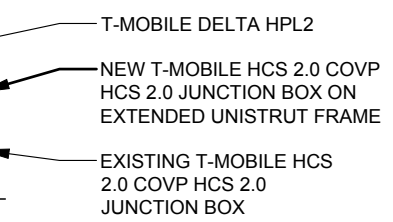
NEW T-MOBILE EQUIPMENT TO BE INSTALLED
 (3) ANTENNAS
 (1) HCS 2.0 PENDANT

HYBRID CABLE SHALL BE SUPPORTED WITH CABLE HANGER & HOISTING GRIP

NEW T-MOBILE 1.5" HCS 2.0 HYBRID CABLE TO BE INSTALLED (1 TOTAL)
 -ROUTED IN EXISTING 4" U-GUARD

EXISTING T-MOBILE 1.5" HCS 2.0 HYBRID CABLE (1 TOTAL)
 -ROUTED IN EXISTING 4" U-GUARD

T-MOBILE FINAL CONFIGURATION
 -(6) ANTENNAS
 -(3) AHLOA RRUs
 -(3) AHFIG RRUs
 -(2) HCS 2.0 PENDANT
 -(2) HCS 2.0 HYBRID CABLE



- STRUCTURAL NOTES:**
- STRUCTURAL CALCULATIONS BY GPD GROUP, INC. (DATED 12/07/2023). CONTRACTOR SHALL COORDINATE WITH T-MOBILE TO OBTAIN A COPY PRIOR TO CONSTRUCTION.
 - MOUNT MODIFICATION DESIGN AND MOUNT ANALYSIS BY GPD GROUP, INC (DATED 12/07/2023). REFER TO MOUNT MODIFICATION DESIGN AT END OF SET FOR REQUIREMENTS. MOUNT MODIFICATIONS SHALL BE INSTALLED PRIOR TO ANY EQUIPMENT UPGRADES.
 - CONTRACTOR SHALL REFER TO STRUCTURAL ANALYSIS FOR HYBRID CABLE ROUTING INFORMATION.
 - CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ATTACHMENT OR MODIFICATIONS OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

POLE ELEVATION
 SCALE: NOT TO SCALE

T-Mobile
 6215 MORENCI TRAIL
 INDIANAPOLIS, IN 46268
 (317) 347-7071

GPD GROUP, INC.
 520 South Main Street, Suite 2531
 Akron, OH 44311
 216 Fax 330.572.2101

2023746-00-MW02535C.02
 REGISTERED PROFESSIONAL ENGINEER
 No. 11400062
 STATE OF INDIANA
 CIVIL SEAL 12/07/2023

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HAWTHORN DR & E 3RD ST - 50' ROW
 MW02535C

NO.	REVISION/ISSUE	DATE
A	ISSUED FOR REVIEW	10/25/23
0	ISSUED FOR CONSTRUCTION	12/07/23

TITLE:
TOWER ELEVATION & ANTENNA LAYOUT

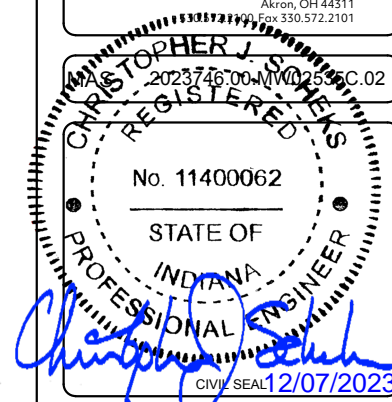
SHEET:
C-3

T-Mobile

6215 MORENCI TRAIL
INDIANAPOLIS, IN 46268
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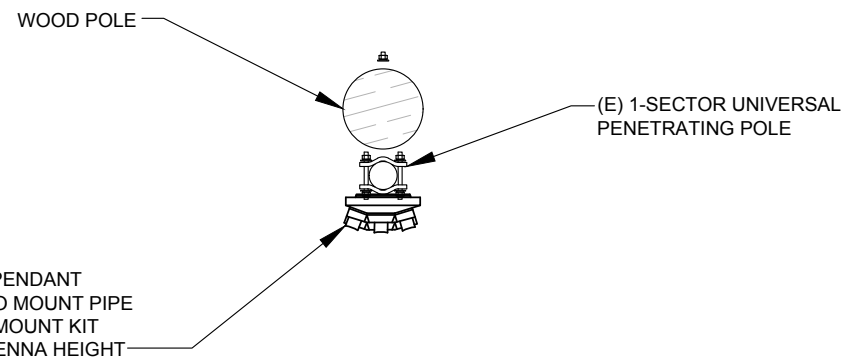
HAWTHORN DR & E 3RD ST - 50' ROW

MW02535C

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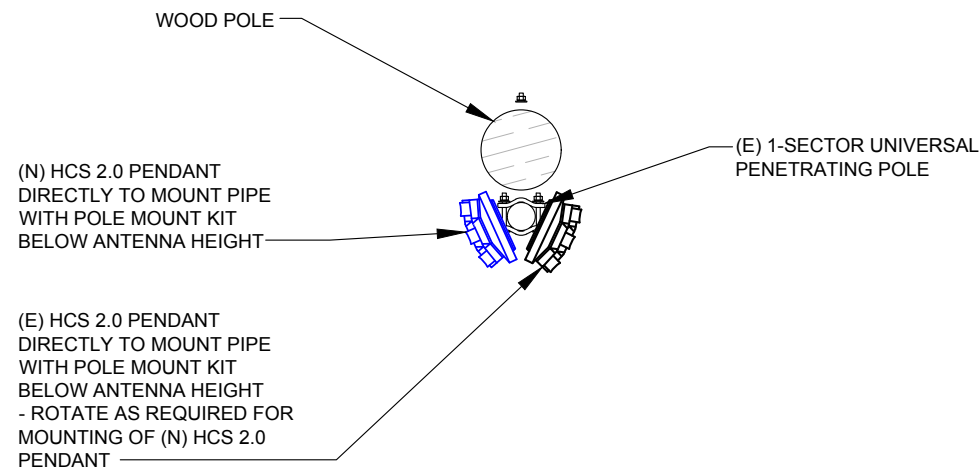
TITLE:
**PROPOSED EQUIPMENT
LAYOUTS**

SHEET:
C-3.1



EXISTING EQUIPMENT LAYOUT (±42'-0" AGL)

0' 1' 2'
SCALE: 1/2" = 1'-0"
PLOTTED @ 11"x17"



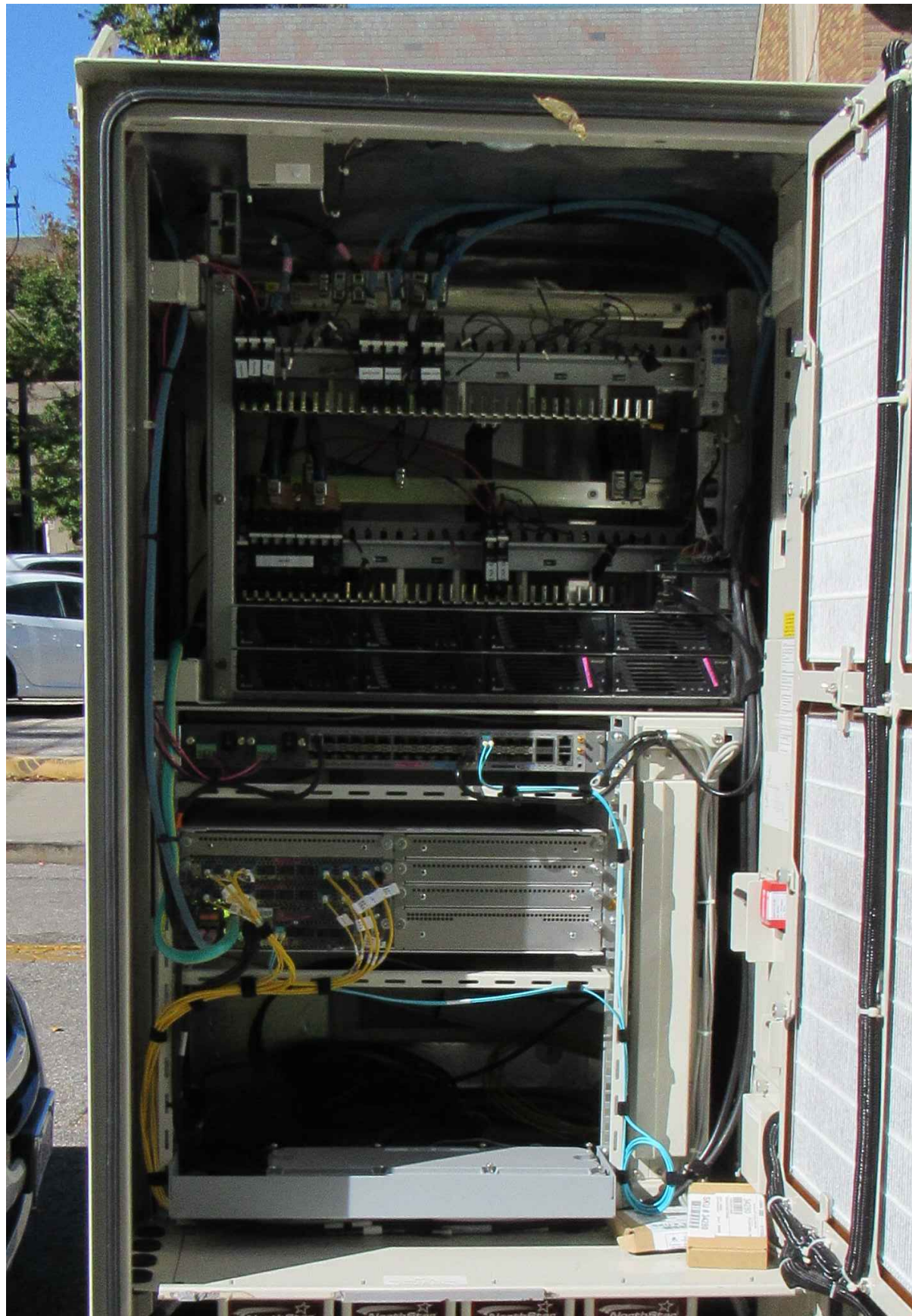
PROPOSED EQUIPMENT LAYOUT (±42'-0")

0' 1' 2'
SCALE: 1/2" = 1'-0"
PLOTTED @ 11"x17"



DETAIL NOT USED
SCALE: NOT TO SCALE

DETAIL NOT USED
SCALE: NOT TO SCALE



EXISTING EQUIPMENT SPACE PHOTO

SCALE: NOT TO SCALE

EQUIPMENT SPACE		
1	DELTA BOOST VOLTAGE BOOSTER WITH 4 MODULES	1
2	(1) EXTRA MODULES FOR DELTA BOOST VOLTAGE BOOSTER	2
3	SPACE	3
4	CSR IXRe V2 (Gen2)	4
5	SPACE	5
6	AMIA	6
7		7
8		8
9	SPACE	9
10	SPACE	10
11	SPACE	11
12	SPACE	12

EQUIPMENT SPACE ASSIGNMENT

SCALE: NOT TO SCALE

MAS 2023746.00.MW02535C.02

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HAWTHORN DR & E 3RD ST - 50' ROW

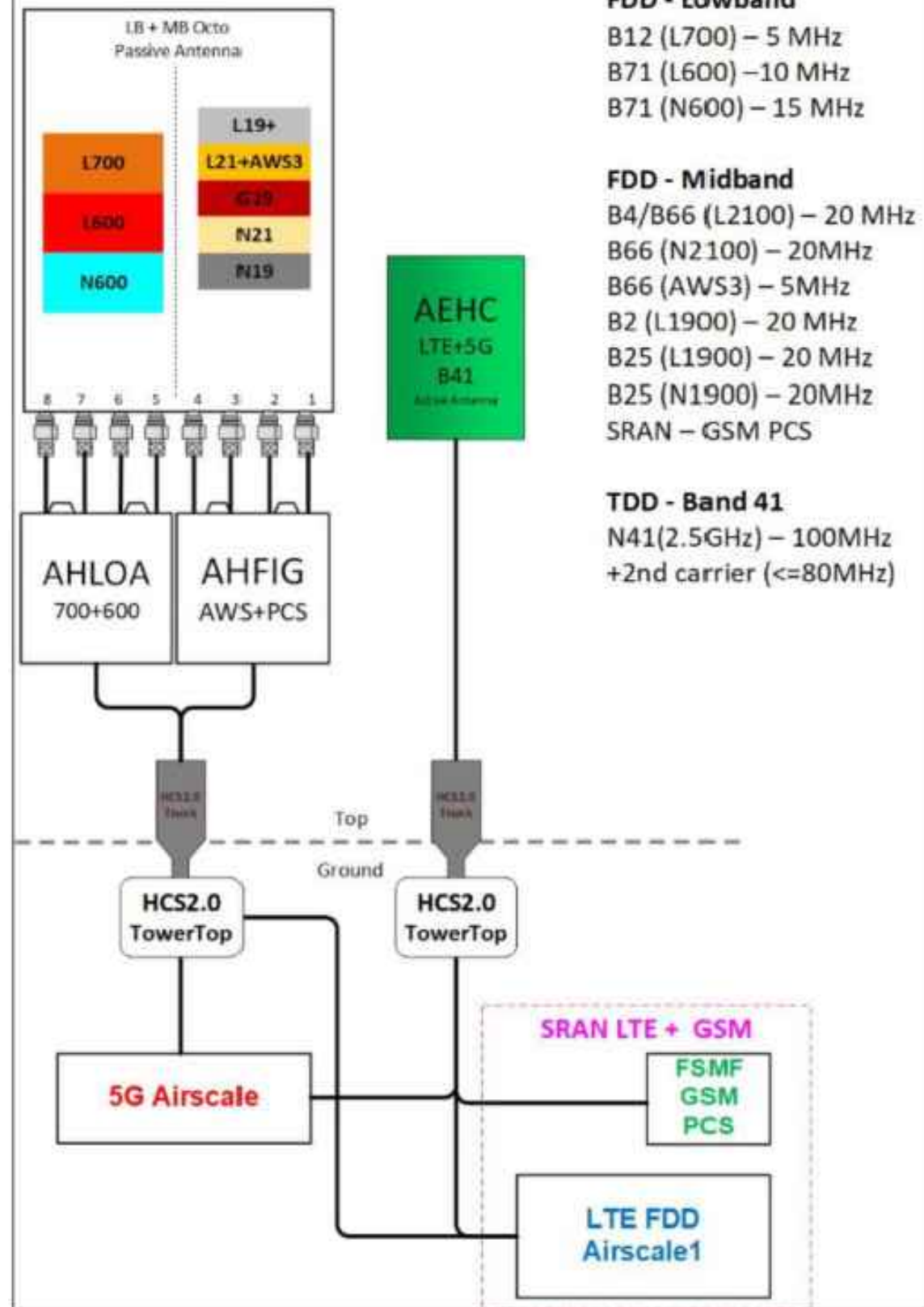
MW02535C

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TITLE:
EQUIPMENT SPACE

SHEET:
C-4

56790EZ_SR_T
(Custom, Antenna Position Swap)



NOTE:
REFER TO THE MOST CURRENT RFDS SHEET FOR FINAL ANTENNA CONFIGURATIONS AND AZIMUTH DETAILS. COORDINATE WITH T-MOBILE PERSONNEL.

SECTORIZED COLOR IDENTIFICATION	
SECTOR A	RED
SECTOR B	GREEN
SECTOR C	BLUE
SECTOR D	YELLOW
SECTOR E	WHITE
SECTOR F	PURPLE
LMU	BROWN
FIBER IS	GRAY
UNUSED COAX	PINK
MICROWAVE	ORANGE
PWE T-1'S	ID w/ LABEL MAKER

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HAWTHORN DR & E 3RD ST - 50' ROW

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TITLE:
RFDS & COLOR CODE DETAILS

SHEET:
RF-1



SPECIFICATIONS:

MANUFACTURER: NOKIA
 MODEL: AEHC
 HEIGHT: 38.2"
 WIDTH: 21.5"
 DEPTH: 5.9"
 WEIGHT: 108.0 lbs
 INSTALLATION: REFER TO NOKIA MOUNTING HARDWARE INSTALLATION INSTRUCTIONS SUPPLIED WITH ANTENNA BY MANUFACTURER

ANTENNA SPECIFICATIONS

SCALE: NOT TO SCALE

DETAIL NOT USED

SCALE: NOT TO SCALE

DETAIL NOT USED

SCALE: NOT TO SCALE

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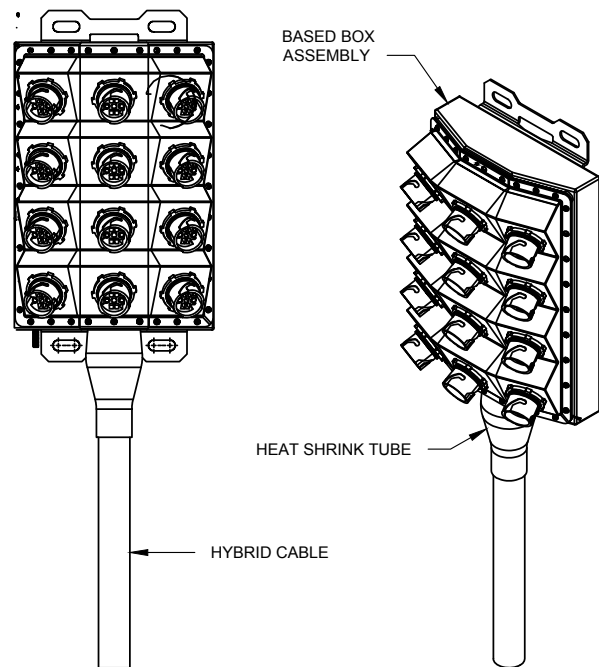
HAWTHORN DR & E 3RD ST - 50' ROW

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TITLE:
EQUIPMENT DETAILS

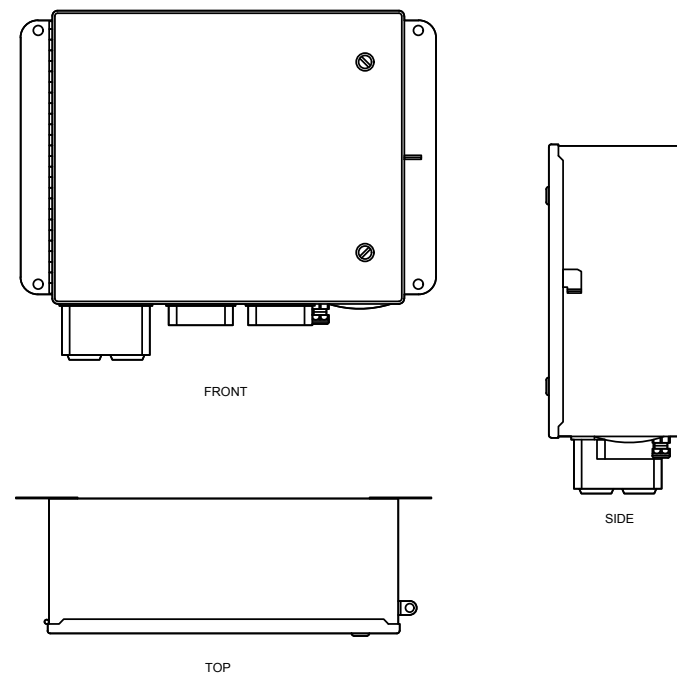
SHEET:
RF-2



WEIGHT (WITHOUT MOUNTING HARDWARE): 23.5 LBS.
 SIZE (HxWxD): 14.0x16.0x8.0 IN.

HCS 2.0 PENDANT DETAIL

SCALE: NOT TO SCALE



WEIGHT (WITHOUT MOUNTING HARDWARE): 23.5 LBS.
 SIZE (HxWxD): 14.0x16.0x8.0 IN.

HCS 2.0 JUNCTION BOX DETAIL

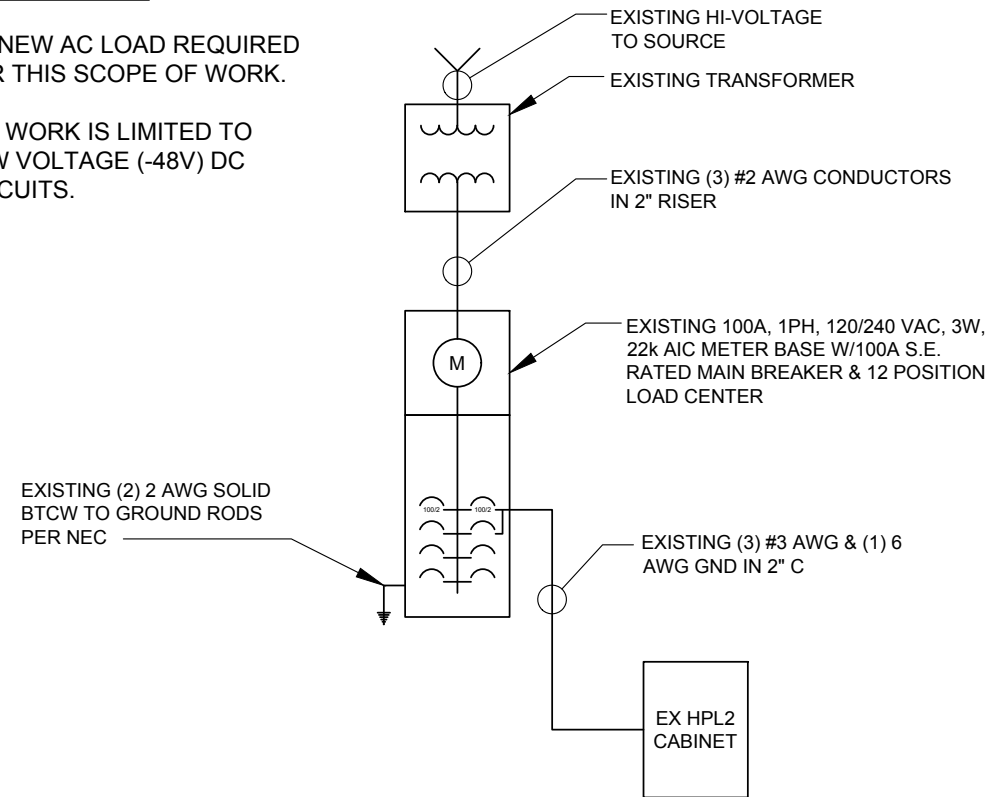
SCALE: NOT TO SCALE

DETAIL NOT USED

SCALE: NOT TO SCALE

ELECTRICAL SCOPE:

1. NO NEW AC LOAD REQUIRED FOR THIS SCOPE OF WORK.
2. ALL WORK IS LIMITED TO LOW VOLTAGE (-48V) DC CIRCUITS.



AC ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

ELECTRICAL CONTRACTOR NOTE:

THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL ONLY AND SHOW THE GENERAL INTENT OF THE FINAL ARRANGEMENT OF ELECTRICAL SYSTEMS, EQUIPMENT AND CONNECTIONS. IT IS THE INTENT OF THESE ELECTRICAL DRAWINGS TO REQUIRE APPROPRIATE ELECTRICAL WORK TO COMPLETELY FACILITATE THE ELECTRICAL REQUIREMENTS FOR THE TENANT (T-MOBILE). SOME OF THE ELECTRICAL WORK SHOWN IS EXISTING AND SHALL REMAIN IN PLACE WITH NEW WORK ADDED TO ACCOMMODATE T-MOBILE ELECTRICAL REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELECTRICAL EQUIPMENT AND WIRING AND ADD NEW WORK, AS REQUIRED, TO COMPLETE THE T-MOBILE ELECTRICAL REQUIREMENTS. IT IS NOT INTENDED TO SHOW EXISTING ELECTRICAL WORK AS IS, BUT TO SHOW THE INTENT ONLY. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY FOR ADDED LOAD (T-MOBILE). VERIFY ELECTRICAL AND TELEPHONE SERVICE.

GENERAL NOTES:

1. PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY EXISTING SITE LOCATIONS AND CONDITIONS AND UTILITY SERVICE REQUIREMENTS OF THE JOB.
2. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS AND AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR A WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTIONS OR AMBIGUITY WILL BE MADE BY THE ENGINEER BEFORE THE AFFECTED WORK PROCEEDS.
3. ELECTRICAL WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL LABOR MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE POWER AND LIGHTING SYSTEMS, TELEPHONE AND COMMUNICATION SYSTEMS, PANEL BOARDS, CONDUITS, GROUNDING, ETC. AS INDICATED ON ELECTRICAL DRAWINGS OR AS REQUIRED BY CODE.
4. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, AND SHALL RESTORE ALL EXISTING LANDSCAPE, SPRINKLER SYSTEMS, CONDUITS, WIRING, PIPING, ETC. DAMAGED BY THE ELECTRICAL WORK TO ORIGINAL OR BETTER CONDITION.

5. CONDUCTORS SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT, SCHEDULE 40 PVC, OR FLEXIBLE LIQUIDTIGHT CONDUIT AS INDICATED.
6. OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
7. ALL ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO WITHSTAND 80 M.P.H. WIND SPEED, EXPOSURE C.
8. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT UV STABLE, WEATHER PROOF, ENGRAVED PLASTIC LABELS.
9. REPAIR ANY EQUIPMENT PAINT SURFACE THAT HAS BEEN DAMAGED IN THE COURSE OF INSTALLATION.
10. CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING AND NEW LOADS ON ALL PANELS, CIRCUITS AND FEEDERS, AND PROVIDE ENGINEER AND INSPECTORS WITH PROOF THAT ALL LOADS COMPLY WITH THE NEC.

ELECTRICAL NOTES:

1. ALL WIRES SHALL BE STRANDED COPPER WITH THHN/THWN AND 600 VOLTS INSULATION. ALL GROUNDING CONDUCTOR TO BE PROPERLY SIZED COPPER (STRANDED OR SOLID).
2. IN THE EVENT OF ANY CONFLICT OR INCONSISTENCY BETWEEN ITEMS SHOWN ON THE PLANS AND/OR SPECIFICATIONS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE HIGHEST STANDARD OF PERFORMANCE SHALL PREVAIL.
3. CONDUITS SHALL HAVE NO MORE THAN (4) 90° BENDS IN ANY SINGLE RUN. THE CONTRACTOR SHALL PROVIDE PULL BOXES AS NEEDED WHERE CONDUIT REQUIREMENTS EXCEED THESE CONDITIONS. PULL WIRES AND CAPS SHALL BE PROVIDED AT ALL SPARE CONDUITS.
4. ALL CONDUIT AND NIPPLE ENTRIES INTO CABINET AND METER BOXES SHALL BE MADE WITH WEATHERPROOF HUBS, CONNECTOR, OR LOCKNUTS LISTED FOR THE APPLICATIONS WITH NON-METALLIC BUSHINGS.
5. ONLY ONE SERVICE ALLOWED PER LUG. ALL GROUNDING AND BONDING MUST COMPLY WITH NEC 250 REQUIREMENTS.
6. UPON COMPLETION OF THE JOB, THE CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE OWNER.

ELECTRICAL NOTES

SCALE: NOT TO SCALE



EXISTING DC BREAKER SHELF PHOTO

SCALE: NOT TO SCALE

DC Power Consumption Calculation							
Type	Module	Description	Module Qty	Wire Q	Wire Size	Max Power Consumption (W)	Total Power Consumption (W)
Airscale	ABIO	Card	3	--	Factory Wired	270	810
Airscale	AMIA	Indoor Modular Frame	1	2	6 AWG RHH	40	40
Airscale	ASIL	Common	2	--	Factory Wired	190	380
OVP	HCS 2.0 JBOX	HCS 2.0 Junction Box	2	2	6 AWG TELCOFLEX	0	0
Antenna	AEHC	Active Antenna	3	2	6 AWG HYBRID JUMP	1827	5481
RRU	AHFIG	RRU	3	1	6 AWG HYBRID JUMP	1812	5436
RRU	AHLOA	RRU	3	1	6 AWG HYBRID JUMP	900	2700
SSC	Cabinet	Cabinet (Small Cell)	1	--	Factory Wired	800	800
SSC	CSR IXRe V2	Router	1	2	12 AWG RHH	150	150
Grand Total							15797

Note: OVP doesn't draw power. OVP just distributes power to the RRUs, so use RRU's to determine power consumption

NOTE: DC POWER LOAD SUMMARY IS BASED ON EQUIPMENT FROM RFDS PROVIDED BY T-MOBILE. CONTRACTOR SHALL ENSURE LATEST RFDS MATCHES EQUIPMENT SUMMARY ABOVE. ANY DISCREPANCIES IN PROPOSED EQUIPMENT SHALL BE REPORTED TO T-MOBILE IMMEDIATELY TO CHECK POWER PLANT SUFFICIENCY.

DC POWER LOAD SUMMARY

SCALE: NOT TO SCALE

DC Power Plant Configuration					
Existing Manufacturer:		DELTA GREENTECH CORPORATION			
Existing Model:		DELTA LARGE SS Cabinet			
Existing Configuration					
Rectifier Slots Total	Rectifiers Installed	Available Rectifier Slots	Rectifier Model	Rectifier Output (W)	Configured Capacity (W)
8	8	0	DELTA_ESAA200-CCD01_48V 200A POWER SYSTEM	2900	23200

Notes:

- Existing Power Plant Configuration based on Power Survey Information provided by T-Mobile & Site Visit Photos.
- Contractor shall field verify existing condition and report any discrepancies to T-Mobile Construction Manager prior to proceeding.

DC POWER PLANT CONFIGURATION

SCALE: NOT TO SCALE

PROPOSED DC CIRCUIT SCHEDULE								
MODULE	SIZE	WIRE TYPE	WIRE QTY	CONDUCTOR COLOR			LABEL	COMMENTS
AMIA	25A	6 AWG RHH	2	BLUE	BLACK	----	AMIA (ASIL)	
CSR IXRe V2	10A	12 AWG RHH	2	BLUE	BLACK	----	CSR IXRe V2	
CIENA	10A	12 AWG RHH	2	BLUE	BLACK	----	CIENA A / CIENA B	(2) TO CIENA
EXISTING HCS 2.0 JUNCTION BOX	100A	#2 AWG TELCO FLEX, LIST 2	2	BLUE	BLACK	----	HCS 2.0 JUNCTION BOX	(1) PER SECTOR (3 TOTAL)
5G (BOOSTED) HCS 2.0 JUNCTION BOX	100A	#2 AWG TELCO FLEX, LIST 2	2	BLUE	BLACK	----	5G (BOOSTED) HCS 2.0 JUNCTION BOX	(5) TOTAL

NOTE: SCHEDULE ABOVE ARE NEW CIRCUITS REQUIRED FOR PROPOSED CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DC BREAKERS.

DC CIRCUIT SCHEDULE

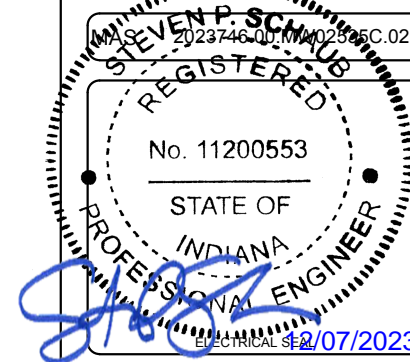
SCALE: NOT TO SCALE



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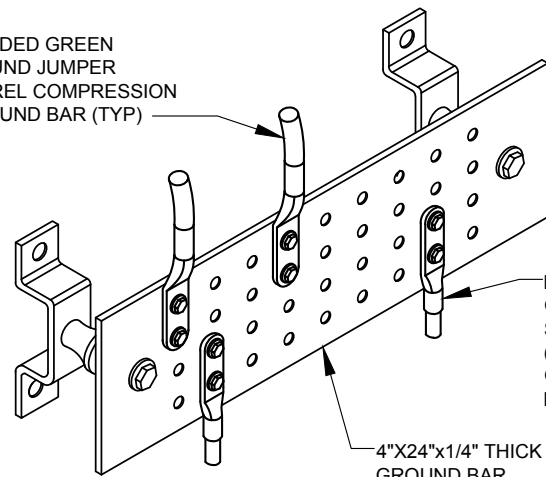
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TITLE:
ELECTRICAL DETAILS

SHEET:
E-1

2 AWG STRANDED GREEN JACKETED GROUND JUMPER W/LONG BARREL COMPRESSION LUGS TO GROUND BAR (TYP)



REFER TO GROUND RISER SCHEMATIC (SHEET E-3) FOR GROUNDING DIAGRAM

4\"/>

NOTES:

- CONTRACTOR SHALL UTILIZE LUGGED HOLES PROVIDED. NO DRILLING OF THE BAR WILL BE PERMITTED.
- ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH KOPR-SHIELD.

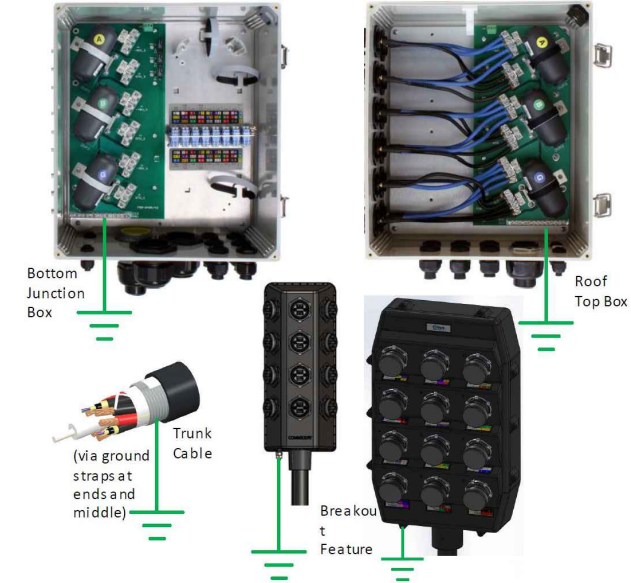
TYPICAL GROUND BAR DETAIL (TOWER TOP ONLY)

NOT TO SCALE

CADWELD CONNECTIONS OR APPROVED EQUAL		BURNDY CONNECTIONS OR APPROVED EQUAL
 PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT	 HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS	 BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2
 THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT	 VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS	 COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2
 VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS	<p style="text-align: center;">CONNECTION TYPE KEY</p> <ul style="list-style-type: none"> ● MECHANICAL CONNECTION ■ CADWELD CONNECTION 	

CONNECTION TYPES

NOT TO SCALE

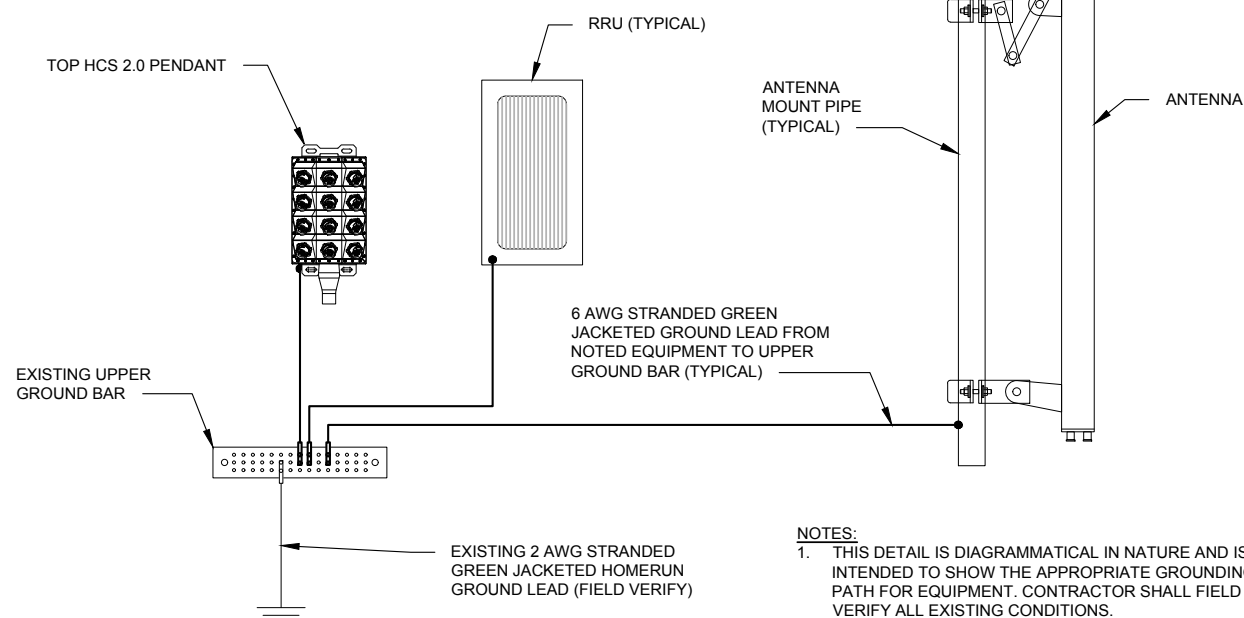


NOTES:

- EXTREMELY IMPORTANT TO GROUND EACH AND EVERY PIECE OF EQUIPMENT FOR LIGHTNING PROTECTION
 - ROOF TOP BOX
 - BOTTOM JUNCTION BOX
 - BREAKOUT FEATURE
 - TRUNK CABLE (USES SAME GROUND STRAPS AS COAX)
- OVP DEVICES WILL WORK PROPERLY PER DESIGN ONLY IF GROUND PATH IS ESTABLISHED, I.E. GROUNDING IS MANDATORY

NOKIA 2.0 HCS SYSTEM GROUNDING

NOT TO SCALE



NOTES:

- THIS DETAIL IS DIAGRAMMATICAL IN NATURE AND IS INTENDED TO SHOW THE APPROPRIATE GROUNDING PATH FOR EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
- CONTRACTOR SHALL INSTALL ANY MISSING GROUNDING FOUND ON SITE. COORDINATE WITH T-MOBILE FOR ADDITIONAL GROUNDING SCOPE.

POLE TOP GROUNDING DETAIL

NOT TO SCALE

DETAIL NOT USED

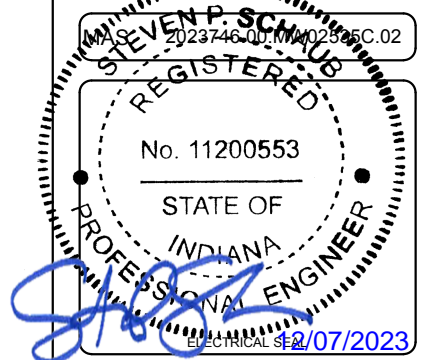
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TITLE:
GROUNDING DETAILS & NOTES

SHEET:
G-1

GENERAL NOTES

1. THE CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: THE CONTRACT, SPECIFICATIONS AND CONSTRUCTION DRAWINGS.
2. ALL EQUIPMENT SUPPLIED BY THE OWNER SHALL BE PICKED UP BY THE CONTRACTOR AT THE APPROPRIATE WAREHOUSE.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK.
4. THE CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION AT ALL TIMES WHILE THE WORK IS BEING PERFORMED AND SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING JOB SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL SERVICE AND OVERALL COORDINATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC., SHALL BE REPORTED TO T-MOBILE CONSTRUCTION SUPERVISOR BEFORE PROCEEDING WITH THE WORK.
6. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE, LANDSCAPING OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE TENANT, BUILDING OWNER OR OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.
9. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE CITY OR GOVERNING AGENCY.
10. THE CONTRACTOR AND ALL SUBORDINATE CONTRACTORS SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS.
11. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO T-MOBILE.
12. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE, AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL DRAWINGS. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
13. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION SUPERVISOR OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION.
14. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION SUPERVISOR IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
15. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE VOICESTREAM CONSTRUCTION SUPERVISOR SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
16. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE T-MOBILE CONSTRUCTION SUPERVISOR SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
17. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR ALL OTHER ITEMS REQUIRING THE SAME.
18. CITY APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. AT ALL TIMES THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
19. DESIGN DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS WILL PERMIT. ANY ERROR, OMISSION, OR DESIGN DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE T-MOBILE CONSTRUCTION SUPERVISOR FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
20. AS-BUILTS REQUIREMENTS: DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE T-MOBILE CONSTRUCTION SUPERVISOR'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNMAGNIFIED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICH DRAWINGS IS MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE T-MOBILE CONSTRUCTION SUPERVISOR FOR THE OWNER'S RECORDS.

PART I: GENERAL

- 1.1 SCOPE: CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUB GRADE PREPARATION, FINISH GRADING AND SECURITY FENCE, AS REQUIRED BY CONSTRUCTION DRAWINGS AND DETAIL DRAWINGS.
- 1.2 REFERENCES
 - A. DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS FOR THE STATE IN WHICH THE PROJECT IS LOCATED.
 1. INDIANA: IN DOT STANDARD SPECIFICATIONS
 - B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
 - C. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
 - D. AASHTO (AMERICAN ASSOCIATION OF STATE AND HIGHWAY TRANSPORTATION OFFICIALS)
- 1.3 INSPECTION AND TESTING
 - A. FIELD TESTING OF EARTHWORK, AGGREGATE BASE COURSE, COMPACTION, AND CONCRETE TESTING SHALL BE PERFORMED BY THE CONTRACTOR'S INDEPENDENT TESTING LAB.
 - B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE T-MOBILE CONSTRUCTION SUPERVISOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.4 SITE MAINTENANCE AND PROTECTION

- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF THE WORK UNTIL COMPLETION OF THE CONTRACT.
- B. CONTACT THE ONE-CALL UTILITY LOCATION SERVICE PRIOR TO ANY EXCAVATING ACTIVITIES TO HAVE LOCATIONS OF UNDERGROUND UTILITIES VERIFIED.
- C. AVOID DAMAGE TO THE SITE INCLUDING EXISTING FACILITIES, STRUCTURES, TREES AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- D. KEEP SITE FREE OF ALL PONDING WATER.
- E. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS FOR THE STATE IN WHICH THE PROJECT IS LOCATED.
- F. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT LIFE AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.

PART II: PRODUCTS

- 2.1 SUITABLE BACK FILL: EXCAVATED INORGANIC MATERIAL, COHESIVE AND NON-COHESIVE MATERIALS, INCLUDING GRAVEL, SAND, INORGANIC LEAN CLAY, GRAVEL SILT, GRAVEL CLAY, SAND CLAY, SAND SILT OR SILT CLAY MATERIAL FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3-INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL OR FILL MATERIAL AS DETERMINED BY THE T-MOBILE CONSTRUCTION SUPERVISOR AND GEOTECHNICAL ENGINEER.
- 2.2 POROUS AND NON POROUS EMBANKMENT AND BACK FILL:
 - A. INDIANA: PER SECTION 203 OF INDOT STANDARD SPECIFICATIONS
- 2.3 SELECT FILL: GRANULAR FILL MATERIAL FOR USE AROUND AND UNDER STRUCTURES WHERE FILL MATERIALS ARE REQUIRED:
 - A. INDIANA: PER SECTION 904.05 OF INDOT STANDARD SPECIFICATIONS
- 2.4 GRANULAR BEDDING AND TRENCH BACK FILL: WELL-GRADED SAND (SW OR SW-SM) AND THE FOLLOWING:
 - A. INDIANA: PER SECTION OF INDOT STANDARD SPECIFICATIONS
- 2.5 CRUSHED STONE SURFACE COURSE FOR ACCESS ROAD:
 - A. INDIANA: PER SECTION 303 OF INDOT STANDARD SPECIFICATIONS
- 2.6 CRUSHED STONE SUBBASE FOR ACCESS ROAD:
 - A. INDIANA: IN AASHTO #8 & #53 CRUSHED LIMESTONE
- 2.7 CRUSHED STONE GRANULAR BASE FOR COMPOUND:
 - A. INDIANA: AASHTO #53 CRUSHED LIMESTONE
- 2.8 UNSUITABLE MATERIALS: TOP SOIL, HIGH AND MODERATELY PLASTIC SILTS AND CLAY, MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3-INCHES IN ANY DIMENSION AND DEBRIS AS DETERMINED BY THE CONSTRUCTION SUPERVISOR AND T-MOBILE GEOTECHNICAL ENGINEER. TYPICALLY, THESE WILL BE SOILS CLASSIFIED AS PT, MH, CH, OH, ML OR OL.
- 2.9 GEOTEXTILE FABRIC: MIRAFI 500X OR APPROVED EQUIVALENT
- 2.10 PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM, SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6-INCHES WIDE WITH A MINIMUM THICKNESS OF 0.004-INCH. TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL WIRES, FOIL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

2.11 SECURITY FENCE

- A. PROVIDE AND INSTALL THE GALVANIZED FENCE WITH ASSOCIATED POSTS, RAILS, BRACES, FABRIC, TERMINAL POST, GATES, DROP BAR AND BARBED WIRE. USE APPLICABLE PROVISIONS OF ASTM FOR MATERIALS.
- B. FABRIC SHALL BE HEAVY GALVANIZED CHAIN LINK FENCE, CONFORMING TO ASTM A392 2-INCH MESH 9 GAUGE WIRE (0.148 INCHES IN DIAMETER) WITH THE TOP AND BOTTOM SELVAGES TWISTED AND BARBED.
- C. POSTS
 1. LINE POST FOR FABRIC UP TO 8 FEET HIGH SHALL BE 2 3/8 INCH O.D.
 2. END CORNER, PULL POST AND GATE POST SHALL BE 2 7/8 INCH O.D. ALL POSTS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE IN ACCORDANCE WITH ASTM A120, A570 AND A525. FOR FENCE OVER 8 FEET HIGH, SIZE POST ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- D. TOP RAILS SHALL CONFORM TO 1 1/4 INCH (1.660" O.D.), SCHEDULE 40 GALVANIZED STEEL PIPE IN ACCORDANCE WITH ASTM A120.
- E. TENSION WIRE SHALL BE 7 GAUGE U.S. STEEL WIRE GALVANIZED IN ACCORDANCE WITH ASTM A116, COATING CLASS III.
- F. BRACE BANDS, TENSION BANDS AND TENSION BARS SHALL BE FABRICATED OF 1/8 INCH BY 7/8 INCH GALVANIZED STEEL WITH GALVANIZED STEEL CARRIAGE BOLTS AND NUTS IN ACCORDANCE WITH ASTM A123. TENSION BARS SHALL BE 1/4 INCH BY 3/4 INCH GALVANIZED STEEL BAR IN ACCORDANCE WITH ASTM A153.
- G. FABRIC TIES SHALL BE CLASS I GALVANIZED STEEL WIRE NO LESS THAN 9 GAUGE.
- H. POST TOPS SHALL BE PRESSED STEEL OR MALLEABLE IRON AND SHALL BE GALVANIZED PER ASTM A153.

- I. BARBED WIRE SHALL CONSIST OF DOUBLE STRANDED 12 1/2 GAUGE WIRE ASTM A121, CLASS 3 WITH 4-POINT BARBS SPACED 5 INCHES APART. THE TOP 1 FOOT OF THE FENCE SHALL CONSIST OF 3 STRANDS OF BARBED WIRE ATTACHED TO 45 DEGREE ANGLE, HEAVY-PRESSED ARMS CAPABLE OF WITHSTANDING WITHOUT FAILURE 250 POUNDS DOWNWARD PULL AT THE OUTERMOST END OF THE ARM.
- J. GATE MATERIALS, SUCH AS FABRIC, BOLTS, NUTS, TENSION BARS AND BARBED WIRE SHALL BE CONSISTENT WITH FENCE MATERIALS.

PART III: EXECUTION

3.1 GENERAL

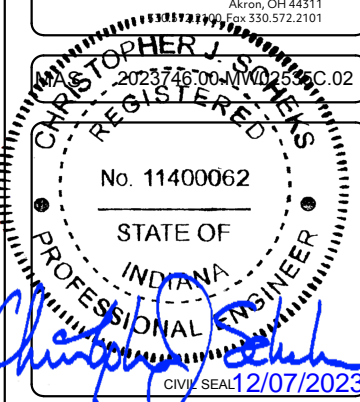
- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE WELL DRAINED AT ALL TIMES.
 - B. PERFORM ALL SURVEY, LAYOUT, STAKING AND MARKING TO ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
 - C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE AND ONLY THE IMMEDIATE SURROUNDINGS NECESSARY TO COMPLETE THE WORK. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED AND GRUBBED.
 1. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12-INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS AND OTHER DEBRIS, BRUSH AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE. RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6-INCHES, AND REMOVE UP TO A DEPTH OF 12-INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
 2. REMOVE TOPSOIL MATERIALS COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER EXCAVATED MATERIALS. TOPSOIL SHALL BE STOCKPILED SEPARATELY FOR REUSE, AS DIRECTED BY THE CONSTRUCTION SUPERVISOR.
 3. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION COMPLETELY WITH SUITABLE FILL.
 - D. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING IS NOT PERMITTED.
 - E. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS, AND ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, CULVERT, STREAM CROSSING OR OTHER ITEM NOT SHOWN THAT MIGHT AFFECT OR INTERFERE WITH THE NEW CONSTRUCTION. NOTIFY THE VOICESTREAM CONSTRUCTION SUPERVISOR OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
 - F. SEPARATE AND STOCKPILE ALL EXCAVATED MATERIALS SUITABLE FOR BACK FILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF IN AN AREA DESIGNATED BY THE VOICESTREAM CONSTRUCTION SUPERVISOR. (UNSUITABLE MATERIAL MAY BE REQUIRED TO BE REMOVED FROM THE SITE.)
- 3.2 EXCAVATION**
- A. FOUNDATION EXCAVATIONS SHALL BE CUT TO FIRM MATERIAL HAVING A SAFE BEARING VALUE OF 3000 PSF AND SHALL BE FREE OF ALL LOOSE AND WET MATERIALS. IF THE BOTTOM OF THE EXCAVATION IS NOT FIRM AND STABLE, OVER-EXCAVATE AN ADDITIONAL 12 INCHES, COMPACT SUB-GRADE AND FILL WITH 12 INCHES OF SELECT FILL.
 - B. AFTER EXCAVATION, THE EXPOSED SOILS SHALL BE INSPECTED AND TESTED AND ANY UNSUITABLE DEPOSITS REMOVED AS DIRECTED TO REACH SUITABLE BEARING SOIL. ALL OVER-EXCAVATED AREAS SHALL BE BACK FILLED WITH SELECT FILL OR WITH LEAN CONCRETE FILL TO THE ELEVATION OF THE BOTTOM OF FOOTING OR FOUNDATION AS INDICATED ON THE DRAWINGS.
 - C. PRIOR TO PLACEMENT OF CONC. FOUNDATIONS, THE SURFACE ON WHICH THE CONCRETE IS TO BE PLACED SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR DENSITY BY THE MODIFIED PROCTOR TEST, ASTM D1557.
 - D. NO FOUNDATIONS OR STRUCTURES SHALL BE CONSTRUCTED UNTIL THE BASE MATERIALS HAVE BEEN INSPECTED BY THE T-MOBILE CONSTRUCTION SUPERVISOR.
- 3.3 FILL:**
- ALL COMPACTED FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING A LOOSE 8" THICKNESS AND COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557.
- 3.4 BACK FILL AS SOON AS PRACTICAL AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISH GRADE.**
- A. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL HAVE BEEN REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS AND UNSUITABLE MATERIALS.
 - B. BACK FILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL, WHEN REQUIRED, IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCH LOOSE THICKNESS. WHERE HAND-OPERATED COMPACTORS ARE USED, THE FILL MATERIALS SHALL BE PLACED IN LIFTS NOT TO EXCEED FOUR INCHES IN LOOSE DEPTH.
 - C. WHENEVER THE DENSITY TESTS INDICATE THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER OR INCREASING THE COMPACTIVE EFFORT.
 - D. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST C. DO NOT PLACE BACKFILL AROUND NEW CAST-IN-PLACE CONCRETE STRUCTURES UNTIL THE CONCRETE HAS CURED FOR AT LEAST 7 DAYS OR COMPRESSIVE STRENGTH TESTS INDICATE THAT THE CONCRETE HAS ACHIEVED MORE THAN 80% OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
- 3.5 TRENCH EXCAVATION**
- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE T-MOBILE CONSTRUCTION SUPERVISOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
 - B. THE TRENCH WIDTH EXTENDS A MINIMUM OF 6 INCHES BEYOND EACH OUTSIDE EDGE OF THE CONDUIT OR OUTERMOST CONDUIT, WHICHEVER IS APPLICABLE.
 - C. WHEN SOFT, YIELDING OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED AT THE REQUIRED TRENCH BOTTOM ELEVATION, OVER-EXCAVATE THE TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

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MW02535C

NO.	REVISION/ISSUE	DATE
A	ISSUED FOR REVIEW	10/25/23
0	ISSUED FOR CONSTRUCTION	12/07/23

TITLE:
GENERAL NOTES

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N-1

- 3.6 TRENCH BACK FILL
- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS AND THE UTILITY REQUIREMENTS.
 - B. NOTIFY THE T-MOBILE CONSTRUCTION SUPERVISOR 24 HOURS IN ADVANCE OF BACK FILLING
 - C. CONDUCT UTILITY CHECK TESTS BEFORE BACK FILLING BACK FILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
 - D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACES AROUND THE CONDUITS.
 - E. PROTECT CONDUIT FROM LATERAL MOVEMENT, DAMAGE FROM IMPACT OR UNBALANCED LOADING.
 - F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 9-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
 - G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D1557

END OF SPECIFICATION

- 4.1 WORK SITE SAFETY
- SAFETY IS OF PARAMOUNT CONCERN TO BOTH SITE WORKERS AND THE PUBLIC
- A. CONSTRUCTION WORK PRESENTS UNIQUE THREATS TO HEALTH AND SAFETY. THE CONTRACTOR IS RESPONSIBLE TO EDUCATE THEIR WORK FORCE OF THESE DANGERS AND LIMIT THEIR EXPOSURE TO HAZARDS. THIS EDUCATION SHALL INCLUDE BUT NOT BE LIMITED TO APPLICABLE TRAINING COURSES AND CERTIFICATIONS, PROPER PERSONAL PROTECTIVE EQUIPMENT USAGE, DAILY TAILGATE MEETINGS AND ANY OTHER PREVENTATIVE MEASURES WHICH MAY BE REASONABLY EXPECTED. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. THE CONTRACTOR SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.
 - B. TOWER WORK PRESENTS ADDITIONAL THREATS TO HEALTH AND SAFETY. ALL TOWER WORKERS WORKING ON A TOWER MUST BE ADEQUATELY TRAINED AND MONITORED TO ENSURE THAT SAFE WORK PRACTICES ARE LEARNED AND FOLLOWED. AS REQUIRED BY OSHA, WHEN WORKING ON EXISTING COMMUNICATION TOWERS, EMPLOYEES MUST BE PROVIDED WITH APPROPRIATE FALL PROTECTION, TRAINED TO USE THIS FALL PROTECTION PROPERLY, AND THE USE OF FALL PROTECTION MUST BE CONSISTENTLY SUPERVISED AND ENFORCED BY THE CONTRACTOR.
 - C. ALL SAFETY EQUIPMENT SHALL BE INSPECTED ACCORDING TO ALL OSHA AND INDUSTRY SCHEDULED INTERVALS AND ALL INSPECTIONS SHALL BE DOCUMENTED PER APPLICABLE CODES AND STANDARDS.

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PROJECT SPECIFICATION 16000 (ELECTRICAL)

PART I: GENERAL

1.1 SCOPE: THIS SPECIFICATION DESCRIBES THE MINIMUM REQUIREMENT FOR INSTALLATION OF ALL ELECTRICAL SYSTEMS.

1.2 REFERENCES: THE PUBLICATIONS LISTED BELOW FORM PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION, UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN, OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.

- A. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
- B. NESC (NATIONAL ELECTRICAL SAFETY CODE), LATEST EDITION
- C. NEC (NATIONAL ELECTRICAL CODE), LATEST EDITION
- D. NFPA 70 (NATIONAL FIRE PROTECTION ASSOCIATION)
- E. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), INCLUDING ALL APPLICABLE AMENDMENTS
- F. U.L. (UNDERWRITERS LABORATORIES)

1.3 SYSTEM DESCRIPTION

- A. DESIGN REQUIREMENTS: THE CONTRACTOR SHALL INSTALL UNDERGROUND ELECTRICAL AND TELEPHONE CONDUITS AND CABLE AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
- B. PERFORMANCE REQUIREMENTS: WHEN FINISHED, WORK SHALL BE IN A COMPLETE AND UNDAMAGED STATE, AS REQUIRED IN THE CONTRACT DOCUMENTS.

PART II: PRODUCTS

2.1 GENERAL

- A. ITEMS SHALL BE NEW AND SHALL BE INSTALLED ONLY IF IN FIRST-CLASS CONDITION.
- B. SUBSTITUTIONS FOR MATERIAL WILL BE PERMITTED ONLY BY WRITTEN APPROVAL OF THE T-MOBILE CONSTRUCTION SUPERVISOR.

2.2 MATERIALS: THE CONTRACTOR SHALL PROVIDE ALL MATERIAL EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL MATERIAL SHALL BE APPROVED AND LISTED BY OR BEAR THE U.L. LABEL, AND WILL COMPLY WITH ANSI, IEEE AND NEMA STANDARDS WHERE APPLICABLE.

- A. CONDUITS:
 - 1. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, SIZED AS SHOWN ON THE CONSTRUCTION DRAWINGS.
 - 2. ALL EXTERIOR ABOVEGROUND CONDUIT SHALL BE PER LOCAL CODE REQUIREMENTS.
 - 3. ALL INTERIOR CONDUIT SHALL BE EMT WITH COMPRESSION-TYPE FITTINGS.
 - 4. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR OUTDOOR LOCATIONS WHERE FLEXIBLE CONNECTION IS REQUIRED.
- B. CABLES: CONDUCTORS FOR GENERAL WIRING SHALL BE NEC STANDARD ANNEALED COPPER WIRE WITH NEC 600 VOLT INSULATION.
 - 1. #8 AND LARGER-STRANDED TYPE, THHN OR THWN
 - 2. #10 AND SMALLER-SOLID TYPE THHN OR THWN
 - 3. CONDUCTORS IN CONDUIT IN OR ADJACENT TO HIGH HEAT SOURCE SHALL BE TYPE XHHW
 - 4. CONDUCTORS IN CONDUITS ABOVE ROOF, ON TOP OF ROOF OR INSIDE BUILT-UP ROOFING MATERIAL SHALL BE TYPE XHHW
- C. CONVENIENCE OUTLET: UNLESS NOTED OTHERWISE, SURFACE-MOUNTED OUTLETS FOR EXTERIOR LOCATIONS SHALL BE FERALOY, CAD/ZINC ELECTROPLATED WITH THREADED HUBS OR CONDUIT ENTRANCES DRILLED AND TAPPED. ALL COVERS SHALL BE SELF-CLOSING AND GASKETED. SURFACE MOUNTED OUTLETS FOR INTERIOR LOCATIONS SHALL BE GALVANIZED, PRESSED STEEL WITH COVER PLATE, SIERRA PLASTIC STYLE, IVORY COLOR.
- D. COAXIAL CABLE SUPPORTS
 - 1. ALL WAVE GUIDE SUPPORTS SHALL BE MANUFACTURED TO MEET ALL COAX MINIMUM BENDING REQUIREMENTS WAVE GUIDES, AND B1587 FOR 6 WAVE GUIDES. SUPPORTS SHALL BE PROVIDED 3'-0" ON CENTERS.

PART III: EXECUTION

3.1 PREPARATION

- A. BEFORE LAYING OUT WORK, EXERCISE PROPER PRECAUTION TO VERIFY EACH MEASUREMENT.
- B. USE EXTREME CAUTION BEFORE EXCAVATING IN EXISTING AREAS TO LOCATE EXISTING UNDERGROUND SERVICES.

3.2 INSPECTION

- A. A VISUAL CHECK OF ELECTRICAL AND TELEPHONE CABLES, CONDUITS AND OTHER ITEMS SHALL BE MADE BY AN T-MOBILE CONSTRUCTION SUPERVISOR BEFORE THESE ITEMS ARE PERMANENTLY INSTALLED.
- B. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION SUPERVISOR 24 HOURS PRIOR TO TRENCH BACK FILL

3.3 INSTALLATION

- A. TRENCHING, BACK FILLING, BEDDING AND COMPACTING SHALL COMPLY WITH SITE WORK SPECIFICATIONS.
- B. DIG TRENCHES TO THE REQUIRED DEPTH AS SHOWN ON THE DRAWINGS WITHOUT POCKETS OR DIPS. REMOVE LARGE STONES FROM THE BOTTOM OF THE TRENCH AND FIRMLY TAMP LOOSE FILL IN THE BOTTOM BEFORE CONDUIT IS LAID.
- C. INSTALL UNDERGROUND CONDUIT WITH A MINIMUM 3-INCH TO 100-FOOT SLOPE OR TO A SLOPE SHOWN ON THE DRAWINGS.
- D. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, TERMINATE AND CAP ALL STUB-UPS 12 INCHES ABOVE FINISHED GRADE ELEVATION.
- E. WHEREVER CONDUITS CROSS UNDER ROADWAYS, USE GALVANIZED RIGID STEEL CONDUITS IN ALL CASES, EXTENDING 5 FEET BEYOND THE EDGE OF THE ROAD BED. MINIMUM DEPTH FOR CONDUIT SHALL BE 4 FEET BELOW ROADWAY GRADE.
- F. MARK UNDERGROUND CONDUITS WITH A 6-INCH WIDE RED POLYETHYLENE TAPE BURIED 6 INCHES UNDER THE SURFACE DIRECTLY OVER THE CONDUITS. MARK THE TAPE THUS: CAUTION-BURIED ELECTRICAL CABLE.
- G. FOR SEALING CONDUITS, USE ONLY NONTHERMOPLASTIC COMPOUNDS SUCH AS J.M. DUXSEAL, OR AN APPROVED SUBSTITUTE. THE COMPOUND SHALL HAVE NO EFFECT ON RUBBER OR RUBBER-LIKE INSULATIONS, LEAD, ALUMINUM OR FERROUS ALLOYS; IT SHALL BE INSOLUBLE IN WATER AND WITHSTAND MAXIMUM TEMPERATURE RANGES OF THE LOCALITY.
- H. COAXIAL - REFER TO NOKIA ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.
- I. ANTENNA - REFER TO NOKIA ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.
- J. LNA/MHA - REFER TO NOKIA ANTENNA AND COAXIAL CABLE INSULATION PROCEDURES.

3.4 SAFETY IS OF PARAMOUNT CONCERN TO BOTH SITE WORKERS AND THE PUBLIC.

- A. ELECTRICAL WORK PRESENTS SPECIFIC THREATS TO THE HEALTH AND SAFETY OF WORKERS ON SITE. SPECIFICALLY ELECTROCUTIONS ARE THE FOURTH LEADING CAUSE OF DEATH ON CONSTRUCTION SITES. ALL ELECTRICAL WORKERS SHALL HAVE CURRENT CERTIFICATIONS WHICH SATISFY ALL TRAINING REQUIREMENTS FOR THE ELECTRICAL WORK THEY ARE PERFORMING PER OSHA STANDARDS. ALL ELECTRICAL WORKERS SHALL ADHERE TO ALL SAFETY RULES AND REGULATIONS FOR WORKER AND PUBLIC SAFETY. ALL WORK SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS TRAINED FOR THE TYPE OF WORK AND THE VOLTAGES PRESENT FOR EACH TASK. THE CONTRACTOR SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, NFPA 70, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.

END OF ELECTRICAL SPECIFICATIONS

PROJECT SPECIFICATION 16670 (GROUNDING)

PART I: GENERAL

1.1 SCOPE

- A. THIS SPECIFICATION PRESCRIBES THE REQUIREMENTS FOR FURNISHING, INSTALLATION AND TESTING OF THE GROUNDING CABLE, CONNECTORS AND ASSOCIATED COMPONENTS AS INDICATED ON THE DRAWINGS.
- B. APPLICATIONS OF ELECTRICAL GROUNDING AND BONDING WORK SPECIFIED IN THIS SPECIFICATION INCLUDE THE FOLLOWING:
 - 1. FENCE AND GATE POSTS
 - 2. ELECTRICAL POWER SYSTEMS
 - 3. GROUNDING ELECTRODES
 - 4. GROUND BUS BAR
 - 5. SERVICE EQUIPMENT
 - 6. ENCLOSURES
 - 7. MONOPOLE/LATTICE TOWER
 - 8. ICE BRIDGE

1.2 REFERENCES: THE PUBLICATIONS LISTED BELOW FORM PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION, UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN, OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.

- A. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
- B. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
- C. NEC (NATIONAL ELECTRICAL CODE), LATEST EDITION
- D. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
- E. NESC (NATIONAL ELECTRICAL SAFETY CODE), LATEST EDITION
- F. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
- G. U.L. (UNDERWRITERS LABORATORIES)
- H. APPLICABLE LOCAL CODES AND ORDINANCES

PART II: PRODUCTS

2.1 MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED; WITH ASSEMBLY OF MATERIAL, INCLUDING, BUT NOT LIMITED TO, GROUNDING ELECTRODES, BONDING JUMPER AND ADDITIONAL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION. WHERE MORE THAN ONE TYPE COMPONENT PRODUCT MEETS INDICATED REQUIREMENTS, SELECTION IS INSTALLER'S OPTION. WHERE MATERIALS OR COMPONENTS ARE NOT INDICATED, PROVIDE PRODUCTS WHICH COMPLY WITH NEC, U.L. AND IEEE REQUIREMENTS AND WITH ESTABLISHED INDUSTRY STANDARDS FOR THOSE APPLICATIONS INDICATED.

- A. GROUNDING
 - 1. THE EQUIPMENT SHALL BE GROUNDED AS FOLLOWS, AS SHOWN ON THE DRAWINGS AND IN COMPLIANCE WITH NEC ARTICLE 250 AND STATE AND LOCAL CODES.
 - 2. GROUND RODS AND QUANTITY SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL PERFORM A GROUND-RESISTANCE-TO-EARTH TEST. SHOULD THE INSTALLATION HAVE A RESISTANCE OF 5 OHMS OR MORE, CONTRACTOR SHALL INSTALL MORE GROUND RODS AS NECESSARY SO THAT THE OVERALL GROUND-TO-EARTH RESISTANCE IS LESS THAN 5 OHMS.
 - 3. INSTALL ELECTRICAL GROUNDING AND BONDING SYSTEMS AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, NEC'S "STANDARD OF INSTALLATION," AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS.
 - 4. COORDINATE WITH OTHER ELECTRICAL WORK AS NECESSARY TO INTERFACE INSTALLATION OF ELECTRICAL GROUNDING AND BONDING SYSTEMS.
 - 5. INSTALL GROUND CONDUCTORS A MINIMUM OF 36 INCHES BELOW FINISHED GRADE WHICH ENCIRCLES THE TOWER AND EQUIPMENT AND ARE CONNECTED TO EACH DRIVEN GROUND ROD. GROUND TRENCH SHALL BE AT LEAST 24 INCHES AWAY FROM FOUNDATIONS.
 - 6. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUE FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUE SPECIFIED IN U.L. 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
 - 7. APPLY CORROSION-RESISTANT FINISH (NO-OX) TO FIELD-CONNECTIONS, AT COPPER GROUND BARS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATING HAVE BEEN DESTROYED, WHICH ARE SUBJECTED TO CORROSIVE AND/OR OXIDATION PROCESS.
 - 8. ON EXISTING LATTICE TOWERS, WATER TOWERS AND ROOF TOPS WHEN A NEW GROUNDING SYSTEM IS INSTALLED, THE CONTRACTOR SHALL TIE THE NEW GROUND SYSTEM TO THE EXISTING WATER TOWER, LATTICE TOWER STRUCTURAL STEEL OR BUILDING STRUCTURAL STEEL AS THE CASE MAY BE AT LEAST AT ONE LOCATION SO THAT THEY ARE AT THE SAME POTENTIAL.

- B. GROUND RODS
 - 1. GROUND RODS SHALL BE 5/8" DIAMETER 8'-0" LONG, COPPER CLAD DRIVEN ROD(S).
 - 2. GROUND ROD(S) SHALL BE LOCATED AT THE PERIMETER OF EQUIPMENT AS TO CREATE A GROUND RING AS SHOWN ON THE DRAWINGS.
 - 3. GROUND ROD(S) SHALL BE SPACED AT A MINIMUM SPACING OF 8'-0" AND A MAXIMUM SPACING OF 10'-0".
 - 4. GROUND RODS SHALL BE BURIED BELOW THE FROSTLINE. AT NO TIME SHALL THIS DEPTH BE LESS THAN 18" BELOW FINISHED GRADE.
 - 5. GROUND RODS WHICH CANNOT BE DRIVEN STRAIGHT DOWN THE ENTIRE (10) FEET, SHALL BE DRIVEN AT AN ANGLE NOT GRATER THAN 45 DEGREES (NEC 250-83 AND 250-84).
 - 6. GROUND ROD LOCATIONS SHALL BE NOTED ON THE AS-BUILT DRAWING COMPLETE WITH DIMENSIONS.
 - 7. PROVIDE GROUND TEST WELLS AS SHOWN ON THE CONSTRUCTION DRAWINGS.

C. GROUND CONDUCTOR

- 1. ALL DIRECT BURIED GROUND CONDUCTORS SHALL BE TINNED SOLID (#2 AWG) WIRE. BURIED GROUND CONDUCTOR SHALL BE INSTALLED AT MINIMUM DEPTH OF 36" BELOW GRADE.
- 2. ALL SUB GRADE GROUND CONNECTIONS SHALL BE MADE THROUGH THE USE OF EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE SPLICES, TEES AND ALL GROUND ROD CONNECTIONS. MOLD, WELD KITS, ETC., SHALL BE MANUFACTURED BY CADWELD AND SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS.
- 3. GROUND CONDUCTORS SHALL BE ROUTED IN THE SHORTEST AND STRAIGHTEST DISTANCES POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES. CONDUCTORS SHALL BE INSTALLED AS FOLLOWS:
 - A. ALL GROUND CONDUCTORS SHALL FOLLOW A CONTINUOUS DOWNWARD PATTERN TO THE GROUND SOURCE. (NEVER RUN GROUND CONDUCTOR IN AN UPWARD DIRECTION.)
 - B. CONDUCTORS SHALL BE INSTALLED WITH A MINIMUM OF 12 INCH MINIMUM BENDING RADIUS.
 - C. WHEN THE MINIMUM BENDING RADIUS CANNOT BE ACHIEVED, GROUND CABLES SHALL BE ROUTED AT 90 DEGREE BENDS WITH THE USE OF EXOTHERMIC CONNECTIONS AT 90 DEGREES. THE INTENT IS TO ELIMINATE THE CABLE BEND RADIUS AND REPLACE THE RADIUS WITH AN EXOTHERMIC CONNECTION.

PART III: EXECUTION

3.1 PREPARATION

- A. ALL SURFACES TO WHICH GROUND CONNECTIONS WILL BE MADE SHALL BE FREE OF PAINT, GALVANIZING DIRECT CORROSION ETC..
- B. ALL METAL SURFACES EXPOSED ON GROUNDING SHALL BE EITHER COLD GALVANIZE, OR PAINTED TO MATCH ORIGINAL SURFACE.

3.2 EXAMINATION.

- A. EXAMINE AREAS AND CONDITIONS UNDER WHICH ELECTRICAL GROUNDING AND BONDING CONNECTIONS ARE TO BE MADE AND NOTIFY T-MOBILE CONSTRUCTION SUPERVISOR IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER COMPLETION OF WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE
- B. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION SUPERVISOR 24 HOURS PRIOR TO TRENCH BACK FILL ALL WORK DONE BELOW FINISHED GRADE SHALL BE INSPECTED BY THE AERIAL CONSTRUCTION SUPERVISOR DURING THAT PERIOD OR THE CONTRACTOR SHALL PROCEED.

3.3 GROUND TESTING

- A. THE CONTRACTOR SHALL TEST THE GROUND ELECTRODE ROD RESISTANCE IN ACCORDANCE WITH THE METHODS OF MEASUREMENT SHOWN IN THE FALL OF POTENTIAL METHOD.
- B. TEST INSTRUMENTS SHALL OPERATE AT A FREQUENCY OTHER THAN 60 HERTZ AND SHALL CONTAIN STRAY CURRENT AND DC FILTERS, FAULT CURRENT PROTECTION AND HAVE SENSITIVITY TO OPERATE A LOW SIGNAL STRENGTH.
- C. PRIOR TO TESTING, THE CONTRACTOR SHALL DE-ENERGIZE ALL POWER SOURCES, DISCONNECT THE ELECTRODE CONDUCTOR FROM THE GROUND ROD, WEAR HIGH VOLTAGE RUBBER SAFETY GLOVES AND WILL NOT HANDLE TEST INSTRUMENTS IF AT ALL POSSIBLE.
- D. GROUND TESTS ARE TO BE PERFORMED BY QUALIFIED PERSONS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE EQUIPMENT AND THE HAZARDS INVOLVED.
- E. AN INDEPENDENT, APPROVED OUTSIDE FIRM SHALL PERFORM THE GROUND TEST AS OUTLINED. ALL TEST RESULTS SHALL BE FORWARDED TO THE T-MOBILE CONSTRUCTION SUPERVISOR FOR APPROVAL.

END OF GROUNDING SPECIFICATIONS

CLOSE OUT DOCUMENTATION

CLOSEOUT BOOK CONTAINING THE FOLLOWING:

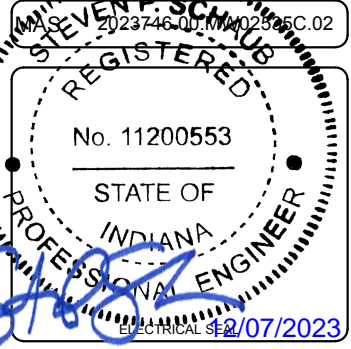
- A. AS BUILT DESIGN DRAWINGS
- B. SWEEP TEST RESULTS
- C. RESISTIVELY TEST
- D. PHOTO DOCUMENTATION OF:
 - 1. UNDERGROUND CONDUITS AND GROUND RING
 - 2. ANTENNA, COAXIAL, JUMPER ATTACHMENTS AND GROUND KIT ATTACHMENTS
 - 3. ANTENNA DOWN TILT MEASUREMENT USING AN INCLINOMETER ON THE BACK PLANE OF THE ANTENNA
 - 4. GROUND BAR ATTACHMENTS
- E. SIGNED OFF PERMIT CARDS
- F. CERTIFICATE OF OCCUPANCY
- G. RETURN OF KEYS AND/OR ACCESS AUTHORIZATION
- H. ORIGINAL BUILDING PERMIT



6215 MORENCI TRAIL
INDIANAPOLIS, IN 46268
(317) 347-7071



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



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HAWTHORN DR & E 3RD ST - 50' ROW

MW02535C

NO.	REVISION/ISSUE	DATE
A	ISSUED FOR REVIEW	10/25/23
0	ISSUED FOR CONSTRUCTION	12/07/23

TITLE: GENERAL NOTES

SHEET: N-3

HAWTHORN DR & E 3RD ST

SITE ID: MW02535C



MOUNT INFORMATION:

MOUNT TYPE: 2'-0" DUAL ANTENNA MOUNT
 SITE LOCATION:
 LAT.: 39° 09' 50.91"
 LONG.: -86° 31' 12.62"
 STREET ADDRESS: 1018 E. 3RD STREET
 CITY, STATE ZIP: BLOOMINGTON, IN 47401
 COUNTY: MONROE

CODE COMPLIANCE:

GOVERNING CODES: TIA-222-H
 WIND SPEEDS: 106 MPH 3-SECOND GUST
 40 MPH 3-SECOND GUST (W/ ICE)
 ICE THICKNESS: 1.5"
 RISK CATEGORY: II
 EXPOSURE CATEGORY: C
 TOPO FACTOR: 1

PROJECT CONTACTS:

CLIENT CONTACT:

MELISSA MORENO
 6215 MORENCI TRAIL
 INDIANAPOLIS, IN 46268
 (317) 997-8553

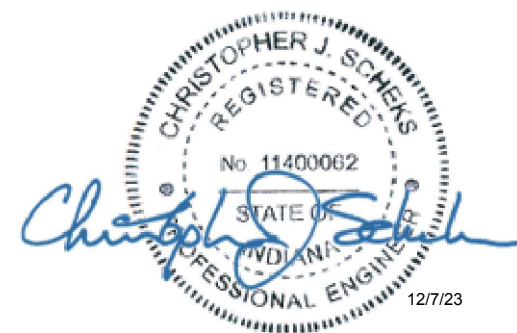
ENGINEER CONTACT:

GPD GROUP, INC.
 520 SOUTH MAIN STREET, SUITE 2531
 AKRON, OH 44311
 (330) 572-2100
 FOR QUESTIONS PLEASE EMAIL:
 GPDMODS@GPDGROUP.COM

SHEET INDEX:

T-01: TITLE SHEET
N-01: PROJECT NOTES & INSPECTION CHECKLIST
S-01: MODIFICATION SCHEDULE & DETAILS
S-02: DETAILS/PARTS

QUALIFIED ENGINEERING SERVICES ARE AVAILABLE FROM GPD TO ASSIST CONTRACTORS IN CLASS IV RIGGING PLAN REVIEWS. FOR REQUESTING QUALIFIED ENGINEERING SERVICES PLEASE CONTACT GPD AT GPDMODS@GPDGROUP.COM.



520 South Main Street
 Akron, OH 44311
 330.572.2100 Fax 330.572.2102



HAWTHORN DR & E 3RD ST
 SITE ID: MW02535C

REV / DATE	DESCRIPTION
0 / 12/7/23	INITIAL RELEASE

HAWTHORN DR & E 3RD ST
 1018 E. 3RD STREET
 BLOOMINGTON, IN 47401

TITLE SHEET

ISSUED FOR:	
PERMIT	12/7/2023
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
BAB	BAB
PROJECT MANAGER	APPROVED BY
MRL	CJS

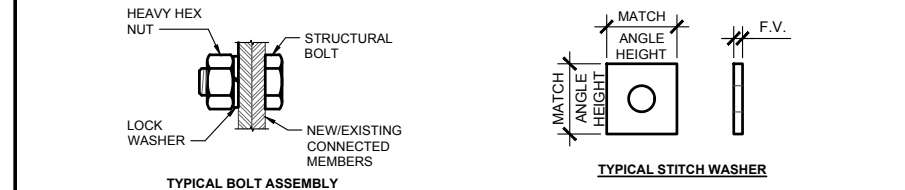
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 2024746.MW02535C.03

T-01

MODIFICATION INSPECTION CHECKLIST		
REQUIRED	REPORT ITEM	BRIEF DESCRIPTION
		PRE-CONSTRUCTION
X	PACKING SLIPS	ANY RECEIPT OF PURCHASE FOR THE MODIFICATION MATERIAL IS ACCEPTABLE.
X	CERTIFICATE OF CONFORMANCE	ALL PRE-ENGINEERED KITS, PARTS, AND/OR ASSEMBLIES PURCHASED FROM REPUTABLE SUPPLIERS SHALL HAVE A SITE SPECIFIC CERTIFICATE OF CONFORMANCE PROVIDED TO CONFIRM ACCEPTABILITY.
X	MATERIAL TEST REPORT (CUSTOM ORDERED OR FABRICATED HARDWARE ONLY)	ALL HARDWARE NOT SPECIFICALLY PROVIDED AS A PRE-ENGINEERED KIT, PART, AND/OR ASSEMBLY SHALL REQUIRE MTRS TO VERIFY ACCEPTABILITY.
X	EXISTING MOUNT(S)	PHOTOS OF ALL SECTORS (WHERE APPLICABLE) PRIOR TO MODIFICATIONS.
X	HARDWARE PRIOR TO INSTALLATION	PHOTOS OF ALL HARDWARE BEFORE BEING INSTALLED ON THE MOUNT(S).
X	NDT - ALL FULL PENETRATION OR WELDS > 5/16"	
X	FABRICATOR CERTIFIED WELD INSPECTION	AWS STAMPED REPORT REQUIRED. WELDING REQUIREMENTS NOT APPLICABLE FOR PRE-ENGINEERED KITS, PARTS OR ASSEMBLIES FROM REPUTABLE SUPPLIERS.
X	WELDER'S CERTIFICATIONS	

POST-CONSTRUCTION		
X	ON SITE COLD GALVANIZING VERIFICATION (IF APPLICABLE, SEE STRUCTURAL STEEL NOTE #2)	ANY DAMAGE TO THE TOWER SHALL BE REPAIRED IN ACCORDANCE WITH STRUCTURAL STEEL NOTE #2.
X	GC AS-BUILT DRAWINGS	ALL DEVIATIONS TO THE DRAWINGS THAT WERE FOUND MUST BE CLEARLY MARKED AND APPROVED BY THE EOR.
X	MEMBER SIZES	NEW MEMBERS SHALL BE VERIFIED WITH A TAPE MEASURE, CALIPERS, THICKNESS GAUGE, OR OTHER STANDARD INDUSTRY EQUIPMENT.
X	CONNECTION HARDWARE	BOLT SIZE (VIA CALIPERS), FIT-UP, LOCKING MECHANISMS, AND TIGHTNESS SHALL ALL BE VERIFIED AND DOCUMENTED.
X	CRITICAL DIMENSIONS	ALL DIMENSIONS SPECIFICALLY CALLED OUT IN THE DRAWING PACKAGE SHALL BE VERIFIED WITH A TAPE MEASURE. THIS INCLUDES MEMBER LENGTHS, HORIZONTAL AND/OR VERTICAL OFFSETS, SPACING REQUIREMENTS, ETC.
X	FINAL INSTALLED CONFIGURATION	THE COMPLETE MODIFIED CONDITION SHALL BE INSPECTED TO ENSURE FULL CONFORMANCE WITH THE DESIGN DRAWINGS.

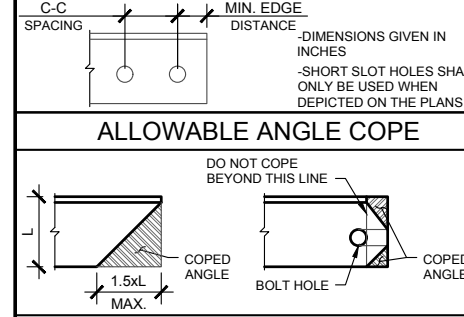
BOLTING DETAILS



BOLT SCHEDULE				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	C-C SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/8	1-1/8x1-5/16	1-3/4	3

WORKABLE GAGES						
LEG	4	3-1/2	3	2-1/2	2	1-3/4
G	2-1/2	2	1-3/4	1-3/8	1-1/8	1

NOTES:
 1. ALL DIMENSIONS REPRESENTED IN THESE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
 2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
 3. AS AN ALTERNATIVE TO USING A LOCK WASHER PAL-NUTS CAN BE INSTALLED ABOVE THE HEX NUT. ALL BOLTS MUST HAVE LOCKING DEVICES INSTALLED AS PART OF THE ASSEMBLY.
 4. ADDITIONAL HARDENED FLAT WASHERS MAY BE REQUIRED IN CASES WHERE OVERSIZED OR SLOTTED HOLES ARE PRESENT. EXISTING CONDITIONS SHALL BE APPROVED BY THE EOR.



NOTES:
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 4. ADDITIONAL HARDENED FLAT WASHERS MAY BE REQUIRED IN CASES WHERE OVERSIZED OR SLOTTED HOLES ARE PRESENT. EXISTING CONDITIONS SHALL BE APPROVED BY THE EOR.

GENERAL NOTES

- THIS DESIGN IS IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222, AWS, ANSI TIA-322, AND AISC MATERIALS, FABRICATION, INSTALLATION, AND ALL OTHER SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND THE CONTRACT SPECIFICATIONS.
- THIS DESIGN ASSUMES THE TOWER AND MOUNTS HAVE BEEN WELL MAINTAINED, ARE IN GOOD CONDITION, AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBERS, LOOSE BOLTS, CRACKED WELDS AND OTHER MEMBER DEFECTS HAVE NOT BEEN CONSIDERED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED TO BE LEVEL. THIS DESIGN IS BEING PROVIDED WITHOUT THE BENEFIT OF A CONDITION ASSESSMENT BY GPD.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING; ANY PROBLEMS WITH ACCESS, INTERFERENCE, ETC. SHALL BE RESOLVED PRIOR TO MOBILIZATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND NOTE ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS OR THAT INTERFERE WITH THE CONTINUOUS INSTALLATION OF THE MODIFICATIONS. CONTRACTOR SHALL NOTE ALL ATTACHMENT POINTS, ANTENNAS, MOUNTS, COAX, LIGHTING, CLIMBING SUPPORTS, STEP BOLTS, PORT HOLES, AND ANY OTHER APPURTENANCES IN THE REGION OF THE MODIFICATIONS. GPD SHALL BE CONTACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF ANY DEVIATION PRIOR TO ORDERING MATERIAL.
- ALL MATERIAL SPECIFIED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZES AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR DETERMINING IF SUBSTITUTE IS SUITABLE FOR USE AND MEETS THE ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MODIFICATION INSPECTOR AT THE TIME OF AWARD TO COORDINATE AN INSPECTION SCHEDULE AND ENSURE PROPER DOCUMENTATION IS RETAINED THROUGHOUT THE PROJECT. REFER TO THE MODIFICATION INSPECTION TABLES ON THIS SHEET.
- INSTALLATION OF THE PROPOSED LOADING IS BY OTHERS AND IS BEYOND THE SCOPE OF THESE DRAWINGS.
- ALL CONTRACTORS AND LOWER TIER CONTRACTORS MUST ACKNOWLEDGE IN WRITING TO TOWER OWNER AND GPD THAT THEY HAVE OBTAINED, UNDERSTAND, AND WILL FOLLOW TOWER OWNER STANDARDS OF PRACTICE, CONSTRUCTION GUIDELINES, ALL SITE AND TOWER SAFETY PROCEDURES, ALL PRODUCT LIMITATIONS AND INSTALLATION PROCEDURES USED ON SITE, AND PROPOSED MODIFICATIONS DESCRIBED. RECEIPT OF ACKNOWLEDGMENT MUST OCCUR PRIOR TO BEGINNING CONSTRUCTION OR CLIMBING. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE THIS DOCUMENTATION FOR TOWER OWNER AND GPD ON COMPANY LETTERHEAD AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THIS DOCUMENTATION FROM LOWER TIER SUBCONTRACTORS (ON SUBCONTRACTOR LETTERHEAD) AND DELIVER IT TO TOWER OWNER AND GPD.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE. THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE TOWER OWNER AND ENGINEER.
- THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THEIR WORK FORCE, THE WORK AREA, ADJACENT AREA, AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. THE CONTRACTOR SHALL REVIEW AND ABIDE BY ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES. ALL TOWER WORKERS SHALL UTILIZE APPROPRIATE FALL PROTECTION AND SAFETY EQUIPMENT THAT IS UP-TO-DATE AND INSPECTED PER OSHA AND INDUSTRY GUIDELINES. ALL WORKERS SHALL BE TRAINED AND MONITORED TO ENSURE SAFE WORKING PRACTICES ARE MAINTAINED.
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING ALL COAX, T-BRACKETS, ANTENNA MOUNTS, AND ANY OTHER APPURTENANCE THAT MAY INTERFERE WITH THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACED AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATIONS TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOMIZATIONS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE ENGINEER PRIOR TO REMOVING SUCH ATTACHMENTS. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE TOWER OWNER IN WRITING.
- CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS WITHIN THESE BOUNDARIES. CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE STRUCTURAL INTEGRITY OF THIS DESIGN EXTENDS TO THE COMPLETE CONDITION ONLY. THE CONTRACTOR MUST BE COGNIZANT THAT THE REMOVAL OF ANY STRUCTURAL COMPONENT HAS THE POTENTIAL TO CAUSE THE PARTIAL OR COMPLETE COLLAPSE OF THE STRUCTURE. ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO ENSURE THE STRUCTURAL INTEGRITY, INCLUDING, BUT NOT LIMITED TO, ENGINEERING ASSESSMENT OF CONSTRUCTION STRESSES WITH INSTALLATION MAXIMUM WIND SPEED AND/OR TEMPORARY BRACING AND SHORING.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 10-MPH). ALL TEMPORARY BRACING AND TEMPORARY SUPPORTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- VERIFY IF THIS STRUCTURE IS AN FM TOWER AND TAKE NECESSARY ACTIONS TO PROVIDE SAFE WORKING CONDITIONS INCLUDING, BUT NOT LIMITED TO, HAVING FM SIGNAL TURNED OFF. CONTRACTOR SHALL HAVE PROPER RADMAN FOR NOTIFICATION OF EXCESSIVE RF EXPOSURE FOR ALL INDIVIDUALS WORKING ON SITE IF FM ANTENNAS ARE PRESENT.
- ALL MANUFACTURERS HARDWARE AND ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. DEVIATION FROM THE INSTRUCTIONS IS UNACCEPTABLE AND REQUIRES WRITTEN APPROVAL FROM ENGINEER.
- DO NOT SCALE DRAWINGS.
- THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL ASSOCIATED HARDWARE SHALL NOT BE IMPEDED OR MODIFIED WITHOUT THE WRITTEN CONSENT OF GPD.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.

STRUCTURAL STEEL NOTES

- ALL NEW STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOT-DIPPED GALVANIZING IS NOT PERMITTED MAGN 565 COATING (OR ENGINEER APPROVED EQUIVALENT) SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL EXPOSED STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, DAMAGED MEMBERS, FIELD WELDS, FIELD CUT MEMBERS, FIELD DRILLED HOLES, AND SHAFT INTERIORS (WHERE APPLICABLE), SHALL BE SOLVENT CLEANED AND HAVE TWO (2) COATS OF BRUSHED ON ZRC ZINC RICH COLD GALVANIZING PAINT APPLIED AND SHALL BE PAINTED TO MATCH THE TOWER FINISH (WHERE APPLICABLE). PHOTO DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THE MODIFICATION INSPECTOR.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE LISTED REQUIREMENTS U.N.O. IN THESE DRAWINGS:
 - STEEL ANGLE: ASTM A36 (Fy=36 KSI)
 - PIPE (ROUND): ASTM A53 GRADE B (Fy=35 KSI)
 - BOLTS: ASTM A325 TYPE 1
 - U-BOLTS: ASTM A307 GRADE A
 - NUTS: ASTM A563 GRADE DH
 - WASHERS (AS REQUIRED): ASTM F436 TYPE 1
 - LOCKING DEVICES: PAL-NUT OR SPLIT WASHER
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222 REQUIREMENTS.
- ALL BOLTS, INCLUDING U-BOLTS, SHALL BE TIGHTENED IN ACCORDANCE WITH AISC "SNUG TIGHT" REQUIREMENTS, U.N.O.
- ALL U-BOLTS SPECIFIED SHALL MEET THE REQUIREMENTS OF ASME B18.31.5-2011 BENT BOLTS.
- STRUCTURAL STEEL SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORK LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
- WELDING OF ANY KIND IS NOT PERMITTED ON SITE UNLESS SPECIFIED WITHIN THESE DRAWINGS. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING OR OPEN FLAME IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- FOR ALL SHOP WELDING, USE E70XX ELECTRODES FOR SMAW PROCESS AND E7XT-XX ELECTRODES FOR FCAW PROCESS, UNO.

MODIFICATION INSPECTION NOTES

- GENERAL**
- THE MI IS AN ON-SITE AND HANDS-ON INSPECTION OF THE MODIFICATIONS INCLUDING A REVIEW OF CONSTRUCTION REPORTS AND ADDITIONAL PERTINENT DOCUMENTATION PROVIDED BY THE GENERAL CONTRACTOR (GC), AS WELL AS AND INSPECTION DOCUMENTS PROVIDED BY 3RD PARTY INSPECTORS. THE MI IS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION DRAWINGS; IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARDS; AND AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
 - NO DOCUMENT, CODE, OR POLICY CAN ANTICIPATE EVERY SITUATION THAT MAY ARISE, ACCORDINGLY, THE CHECKLIST IS INTENDED TO SERVE AS A SOURCE OF GUIDING PRINCIPLES IN ESTABLISHING GUIDELINES FOR THE MODIFICATION INSPECTION.
 - THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. AND THE MI INSPECTOR DOES NOT TAKE OWNERSHIP OF THE DESIGN. THE MI INSPECTOR SHALL INSPECT AN NOTE CONFORMANCE/NON-CONFORMANCE AND PROVIDE TO THE TOWER/STRUCTURE OWNER AND EOR FOR EVALUATION.
 - TO ENSURE THAT THE REQUIREMENTS OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. CONTACT LISTED ON THE TITLE SHEET SHALL BE CONTACTED IF SPECIFIC INSPECTOR CONTACT INFORMATION IS NOT KNOWN.

FAILING INSPECTION REQUIREMENTS

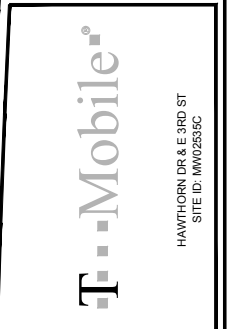
- IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION INSPECTION ("FAILED MODIFICATION INSPECTION"), THE GC SHALL WORK WITH THE MI INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL MODIFICATION DRAWINGS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION.
 - OR, WITH TOWER OWNER APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

SERVICE LEVEL COMMITMENT

- THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:
 - THE GC SHALL PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY TO THE MI TO BE CONDUCTED.
 - THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
 - WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY MINOR DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

REQUIRED PHOTOS

- BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DETAILS OF THE MODIFICATIONS.
- PHOTOS OF ELEVATED MODIFICATION TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



REV	DATE	DESCRIPTION
0	12/7/23	INITIAL RELEASE

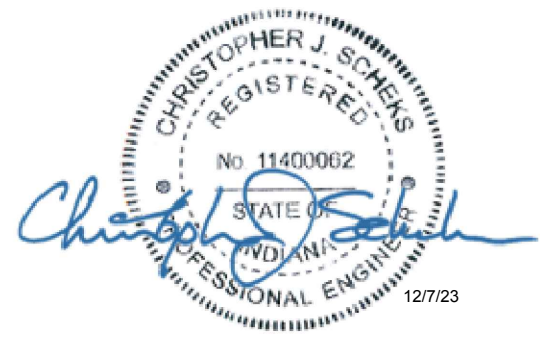
HAWTHORN DR & E 3RD ST
 1018 E. 3RD STREET
 BLOOMINGTON, IN 47401
 PROJECT NOTES
 & INSPECTION CHECKLIST

ISSUED FOR:	
PERMIT	12/7/2023
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
BAB	BAB
PROJECT MANAGER	APPROVED BY
MRL	CJS

JOB NO.
 2024746.MW02535C.03

N-01

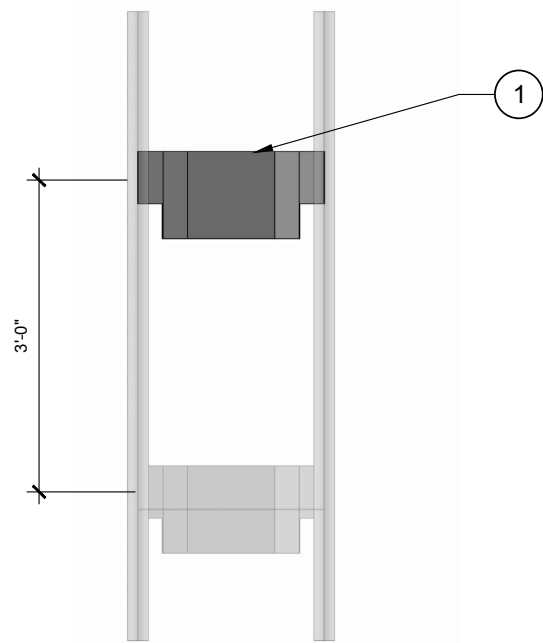


12/7/23

MODIFICATION SCHEDULE						
NO.	MEMBER TYPE	ELEVATION	EXISTING MEMBER	NEW MEMBER	REFERENCE DETAIL/SHEET	NOTES
1	DUAL ANTENNA MOUNT	45'-0"±	2'-0" DUAL ANTENNA MOUNT	(1) DUAL ANTENNA MOUNT	SHEETS S-01 & S-02	INSTALL A NEW DUAL ANTENNA MOUNT (PERFECT VISION P/N: PV-MPM12-DA-B) CONNECTED TO TOWER SHAFT AND EXISTING MOUNT PIPES.

NOTES:

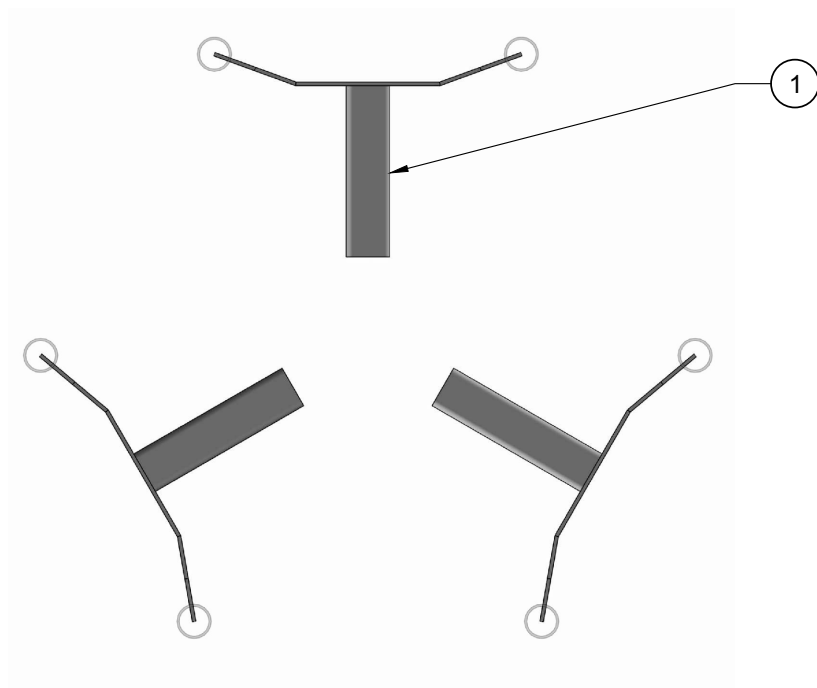
1. ANY SUBSTITUTION OF PARTS SPECIFIED IN THIS DESIGN PACKAGE SHALL REQUIRE ENGINEER APPROVAL PRIOR TO FABRICATION.
2. ALL MATERIAL REMOVED FROM MOUNT SHALL BE DISPOSED OF BY CONTRACTOR OFF SITE.
3. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.



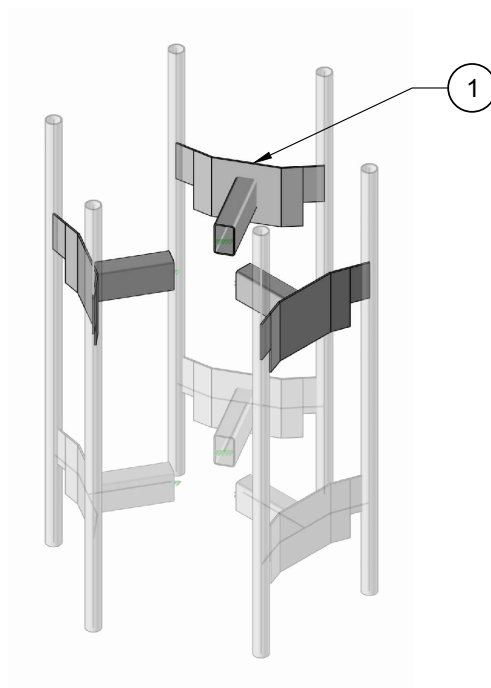
1 ELEVATION VIEW
S-01

NOTE:

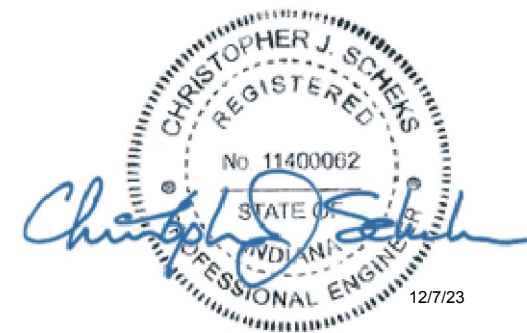
1. DETAIL IS TYPICAL FOR ALL THREE SECTORS. ONLY ONE SECTOR SHOWN FOR DETAIL CLARITY.



2 PLAN VIEW
S-01



3 ISOMETRIC VIEW
S-01



REV.	DATE	DESCRIPTION
0	12/7/23	INITIAL RELEASE

HAWTHORN DR & E 3RD ST
1018 E. 3RD STREET
BLOOMINGTON, IN 47401

MODIFICATION SCHEDULE & DETAILS

ISSUED FOR:	
PERMIT	12/7/2023
BID	-
CONSTRUCTION	-
RECORD	-

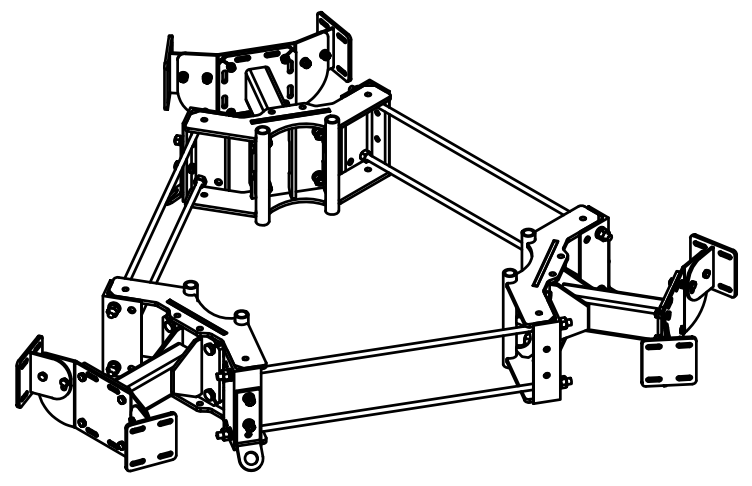
ENGINEER	DESIGNER
BAB	BAB
PROJECT MANAGER	APPROVED BY
MRL	CJS

JOB NO.
2024746.MW02535C.03

S-01



HAWTHORN DR & E 3RD ST
SITE ID: MW02535C



4 PV-MPM12-DA-B DUAL ANTENNA MOUNT
S-02

REV.	DATE	DESCRIPTION
0	12/7/23	INITIAL RELEASE

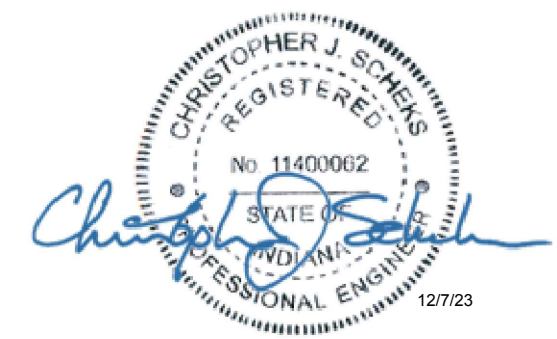
HAWTHORN DR & E 3RD ST
1018 E. 3RD STREET
BLOOMINGTON, IN 47401

DETAILS/PARTS

ISSUED FOR:	
PERMIT	12/7/2023
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
BAB	BAB
PROJECT MANAGER	APPROVED BY
MRL	CJS

JOB NO.
2024746.MW02535C.03





CITY OF BLOOMINGTON RIGHT-OF-WAY USE PERMIT APPLICATION

401 N Morton Street, Suite 130
P.O. Box 100
Bloomington, IN 47402

Phone: (812) 349-3913
Fax: (812) 349-3520
Email:
engineering@bloomington.in.gov

ROW EXCAVATION ROW USE

ADDRESS OF ROW ACTIVITY: 1022 E 3rd Street, Bloomington, IN

A. APPLICANT/AGENT INFORMATION:	D. TRAFFIC CONTROL DEVICES*:
APPLICANT NAME: <u>Michael Gehrke, Agent</u>	<input checked="" type="checkbox"/> CONES <input type="checkbox"/> ARROWBOARD
E-MAIL: <u>Mikeg@cellusite.net / (770) 624-1728</u>	<input type="checkbox"/> LIGHTED BARRELS <input type="checkbox"/> TYPE 3 BARRICADES
COMPANY: <u>T-Mobile Central, LLC</u>	<input type="checkbox"/> FLAGGERS <input type="checkbox"/> BPD OFFICER
ADDRESS: <u>6215 Morenci Trail</u>	*PROVIDING MUTCD COMPLIANT TEMPORARY TRAFFIC CONTROL DEVICES AND MAINTENANCE OF TRAFFIC (MOT) PLAN IS YOUR RESPONSIBILITY AND REQUIRED. See page 3 for additional MOT resources; the graph paper can be used for your MOT site plan if needed or you can submit a separate sheet
CITY, STATE, ZIP: <u>Indianapolis, IN 46268</u>	E. METERED PARKING SPACES NEEDED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
24-HR EMERGENCY CONTACT NAME: <u>T-Mobile NOCC, (888) 218-6664</u>	IT IS THE RESPONSIBILITY OF THE APPLICANT TO RESERVE PARKING METER(S) APPLICATION LOCATED: https://bloomington.in.gov/transportation/parking/moving OR CONTACT PARKING SERVICES WITH QUESTIONS AT (812)349-3436
INSURANCE #*:	F. IS THIS A <input type="checkbox"/> CBU* <input type="checkbox"/> COUNTY* <input type="checkbox"/> IU* <input type="checkbox"/> NP* PROJECT?
BOND#*: _____ COMPANY: _____	PROJECT NAME: <u>T-Mobile Small Cell Site Modification</u>
_____ COMPANY: _____	PROJECT #: <u>MW02535C</u>
* INSURANCE & BOND MUST BE ON FILE WITH THE CITY BEFORE PERMIT WILL BE ISSUED	PROJECT MGR.: <u>Melissa Moreno, T-Mobile Sr. PM</u>
SUBCONTRACTOR INFORMATION	PROJECT MGR. #: <u>(317) 997-8553</u>
(LIST ALL COMPANIES WORKING UNDER PRIMARY CONTRACTOR PERMIT)	*CBU = CITY OF BLOOMINGTON UTILITIES *COUNTY = MONROE COUNTY *IU = INDIANA UNIVERSITY *NP = NOT-FOR-PROFIT AGENCY
COMPANY NAME: <u>Heights Tower</u>	G. EXCAVATIONS:
B. WORK DESCRIPTION:	SQ FT OF PAVEMENT* EXCAVATIONS : <u>N/A</u>
<input type="checkbox"/> POD/DUMPSTER <input type="checkbox"/> CRANE <input type="checkbox"/> SCAFFOLDING <input type="checkbox"/> CONSTRUCTION USE*	*PAVEMENT INCLUDES: IN OR UNDER CONCRETE, OR ASPHALT INCLUDING CURBS
(EXPLAIN): <u>Small Cell Light Pole Installation</u>	SQ FT OF NON-PAVEMENT* EXCAVATIONS: <u>N/A</u>
*EXCAVATION, LONG TERM USE FOR STORAGE OF MATERIAL/EQUIPMENT/WALKAROUND	*DIRT, GRASS, GRAVEL, LANDSCAPE AREA OR OTHER UNPAVED SURFACE
C. RIGHT OF WAY TO BE USED/CLOSED:	LINEAL FT OF BORE*: <u>N/A</u>
STREET NAME 1: <u>Hawthorne Drive / E. 3rd Street 1ST INTERSECTING</u>	*BORE PITS SHALL BE CALCULATED AS SQ FT EXCAVATIONS
STREET NAME: _____	# OF POLE INSTALLATIONS/REMOVAL: <u>None</u>
2ND INTERSECTING STREET NAME: _____	SQ FT OF SIDEWALK RECONSTRUCTION*: <u>N/A</u>
<input type="checkbox"/> ROAD CLOSURE <input type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	*CONCRETE OR ASPHALT SIDEWALK/PATH BEING IMPROVED/REPLACED
<input checked="" type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER	SQ FT OF SIDEWALK NEW CONSTRUCTION*: <u>N/A</u>
TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N **NON-METERED	*CONCRETE OR ASPHALT SIDEWALK/PATH THAT IS NEW INFRASTRUCTURE
N START DATE: <u>3/1/24</u> END DATE: <u>3/21/24</u> # OF DAYS*: <u>21</u>	#RESIDENTIAL DRIVEWAY INSTALLATION: <u>N/A</u>
STREET NAME 2: _____	TO SUBMIT A LOCATE REQUEST 24 HRS A DAY, 7 DAYS A WEEK
1ST INTERSECTING STREET NAME: _____	CALL 811 OR 800-382-5544
2ND INTERSECTING STREET NAME: _____	CALL 2 WORKING DAYS BEFORE YOU DIG. ITS THE LAW.
<input type="checkbox"/> ROAD CLOSURE <input type="checkbox"/> LANE CLOSURE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	H. INDEMNIFICATION AGREEMENT:
<input type="checkbox"/> SIDEWALK* <input type="checkbox"/> BIKE LANE <input type="checkbox"/> OTHER	The petitioner/applicant hereby agrees to hold harmless, defend and to indemnify the City of Bloomington from or against all claims, action, damages and expenses, including but not limited to reasonable attorney's fees or any alleged injury and/or death to any person or damage to any property arising, or alleged to have arisen out of any act of commission or omission on the part of the petitioner/applicant, his/her heirs, successors, or assigns regardless of whether such acts are the direct or indirect result of the public right-of-way use pursuant to this permit grant.
TRANSIT STOP? <input type="checkbox"/> Y <input type="checkbox"/> N PARKING LANE(S)** <input type="checkbox"/> Y <input type="checkbox"/> N **NON-METERED	I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT THE FOREGOING REPRESENTATIONS ARE TRUE.
START DATE: _____ END DATE: _____ # OF DAYS*: _____	PRINT NAME: <u>Michael L. Gehrke</u>
*SIDEWALK CLOSURES FOR A PERIOD OR PERIODS TOTALING 24HRS OR MORE SHALL INSTALL A WALKAROUND UNLESS OTHERWISE APPROVED DURING REVIEW	SIGNATURE: <u>Michael Gehrke</u>
STANDARD CLOSURE HOURS MON-FRI*: 9:00 AM - 3:00 PM & 6:00 PM - 9:00 PM	DATE: <u>3/15/23</u>
STANDARD CLOSURE HOURS <input type="checkbox"/> *NON-STANDARD CLOSURE HOURS <input type="checkbox"/>	
REQUESTED CLOSURE HOURS: _____ AM - _____ PM	
*non-standard hours may not be allowed near schools, on arterials, or other circumstances and are subject to approval during the permitting process	
BMC 14.09.040 allows work from 6 AM to 10 PM without violating the noise ordinance (7AM to 9PM for pneumatic hammers)	

For Administration Use Only (applicable to CLOSURE approval)

Approved By: _____ BPW City Engineer Director Date: _____

Staff Representative: _____ Phone#: _____ Date: _____



Board of Public Works Staff Report

Project/Event:	Resolution to uphold the Order to Remove
Petitioner/Representative:	HAND
Staff Representative:	Michael Arnold
Meeting Date:	January 02, 2024

Report:

October 06, 2021	Order to Seal
January 06, 2022	Out of Compliance Letter
June 03, 2022	Out of Compliance Letter
July 20, 2022	Out of Compliance Letter
December 02, 2022	Out of Compliance Letter
June 28, 2023	Renewed Order to Seal
July 25, 2023	Out of Compliance Letter
September 18, 2023	Out of Compliance Letter
November 08, 2023	BFD dispatched to this location
November 10, 2023	BFD dispatched to this location
November 15, 2023	BFD dispatched to this location
November 16, 2023	Issued Order to Vacate and Order to Remove
November 30, 2023	Site visit with owner
December 04, 2023	Order to Vacate Upheld and Order to Remove Tabled

This property has been an ongoing problem with unauthorized persons gaining access to the structures. HAND has attempted keep the owner apprised of the situation whenever the structures have not been in compliance with the Order to Seal.

On December 01, 2023 there was a site visit with HAND, City Legal, the Owner and the Owner's Attorney. HAND sent a letter outlining steps to be taken to

maintain the structures in compliance with the current Order to Seal that would allow the Owner an opportunity to evaluate the structures for rehabilitation.

Section 17.16.020 adopts the Indiana Building Law. This Law requires BPW to uphold the Resolution to uphold the Order to Vacate and Repair.

November 16, 2023

Jeffery S Jones
3929 W Roll Ave
Bloomington IN 47403

**UNSAFE BUILDING
ORDER TO REMOVE**

RE: Structure(s) located at 410- 414 S Walnut St
Legal description of relevant property: 015-12250-00 Seminary Pt Lots 20 & 23

You are the recorded owner of the aforementioned property ("Property"). A recent inspection determined the Property to contain an unsafe structure(s) and revealed violations of Bloomington Municipal Code ("B.M.C.") Chapter 17.16 and Indiana Code ("I.C.") Chapter 36-7-9. Pursuant to B.M.C. Chapter 17.16 and I.C. § 36-7-9-5(a)(5), you are hereby **ORDERED** to **REMOVE ALL STRUCTURE(S)** at the above-referenced property within **60** days, to wit: by 12 midnight local time on **January 16, 2024**.

The following actions must be taken to comply with this Order:

1. **Immediately seal the structures to prevent unauthorized access. See BMC 1716.060 at the end of this Order**
2. **Contact the Monroe County Building Department regarding permits required for demolition of the structures**
3. **Contact the Historic Preservation Program Manager regarding the demolition delay process and requirements for approval by the Historic Preservation Commission**
4. **Remove all structures and associated debris from the property**
5. **Backfill any foundations, crawl spaces or basements with approved materials**
6. **Use appropriate ground cover such as seed and straw or crushed stone, if permitted to cover bare soil where work has been completed**
7. **Contact HAND upon completion of the work**

The structures referenced above are being declared unsafe in accordance with B.M.C. Chapter 17.16 and I.C. § 36-7-9-4(a) and this **ORDER TO REMOVE** is being issued as a result of inspection(s) conducted by HAND on November 09, 2023 and Bloomington Fire Department (BFD) as a result of being dispatched on November 08, 2023 for a possible overdose. The inspection(s) revealed that the property is:

- In an impaired structural condition that makes it unsafe to a person or property;
- A fire hazard;
- A hazard to the public health;
- A public nuisance;
- Dangerous to a person or property because of a violation of the below listed statute or ordinance concerning building condition or maintenance:
; and/or
- Vacant and not maintained in a manner that would allow human habitation, occupancy, or use under the requirements of the below listed statute or ordinance:


The law requires a hearing be held before this Order can go into effect. To that end, a hearing will be conducted by the City of Bloomington's ("City") Board of Public Works ("Board") at **5:30 p.m. local time on December 05, 2023**. The hearing will take place in the City's Common Council Chambers, located at 401 North Morton Street, Bloomington, Indiana. You or your legal counsel may present evidence, cross-examine witnesses, and present arguments at this hearing.

Failure to comply with this Order by the deadline(s) imposed may result in the City issuing citations for violations of the B.M.C., civil penalties being assessed against you, a civil suit being filed against you, the City making the necessary repairs (either by itself or via the use of an independent third-party contractor) and placing a lien on the Property to recover costs associated with this action, and/or demolition of the Property.

You must notify the City's HAND Department within five (5) days if you transfer title, or if another person or entity agrees to take a substantial interest in the Property. This notification shall include the full name, address and telephone number of the person or entity taking title of or substantial interest in the Property. The legal instrument used in the transfer must also be supplied to the HAND Department. Failure to comply with this notification requirement may render you liable to the City if a judgment is entered for the failure of the City to provide notice to persons holding an interest in the Property.

If you have questions regarding this Order, please feel free to contact Neighborhood Compliance Officer Mike Arnold during normal business hours at the address, telephone number, and/or email herein provided:

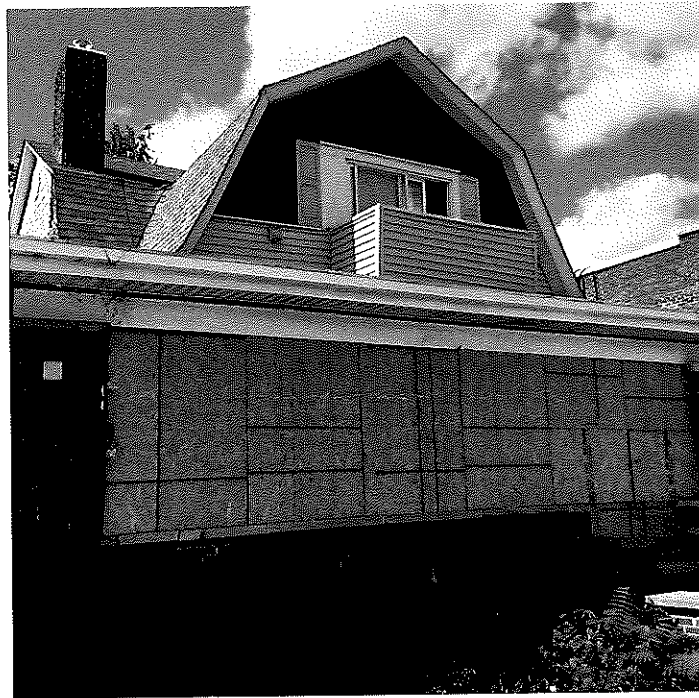
Michael Arnold
 Neighborhood Compliance Officer
 Housing & Neighborhood Development Department (HAND)
 401 N. Morton Street/P.O. Box 100
 Bloomington, Indiana 47402
 (812) 349-3401
arnoldm@bloomington.in.gov.



John Zody, Director
City of Bloomington
Housing & Neighborhood Development (HAND)
401 N. Morton Street/P.O. Box 100
Bloomington, Indiana 47402

11/16/23
Date

410-414 S Walnut St
November 08/09, 2023



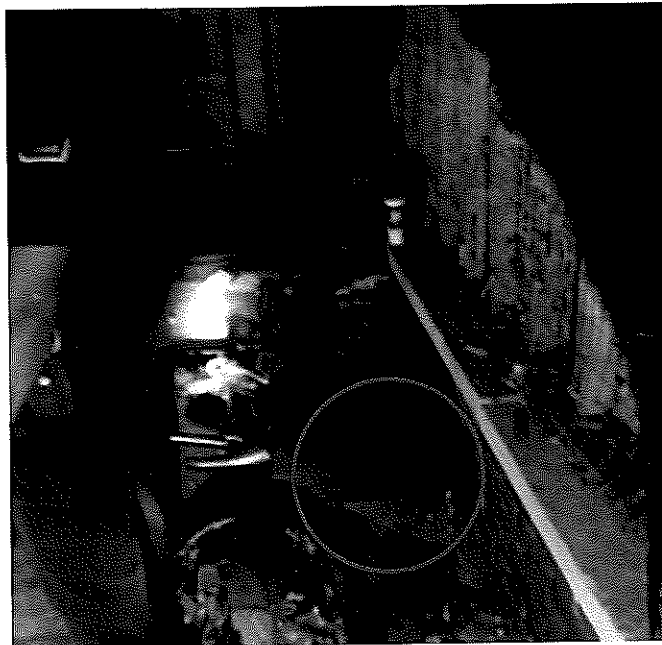
410-412 S Walnut St



Interior



Stairway to basement



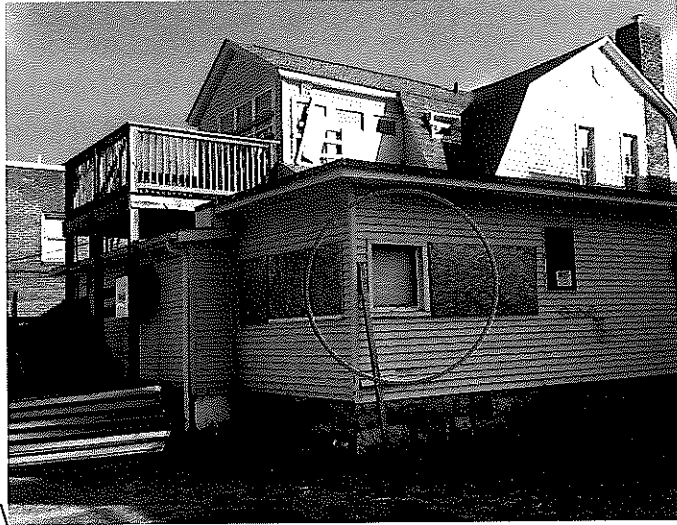
Hole front porch floor



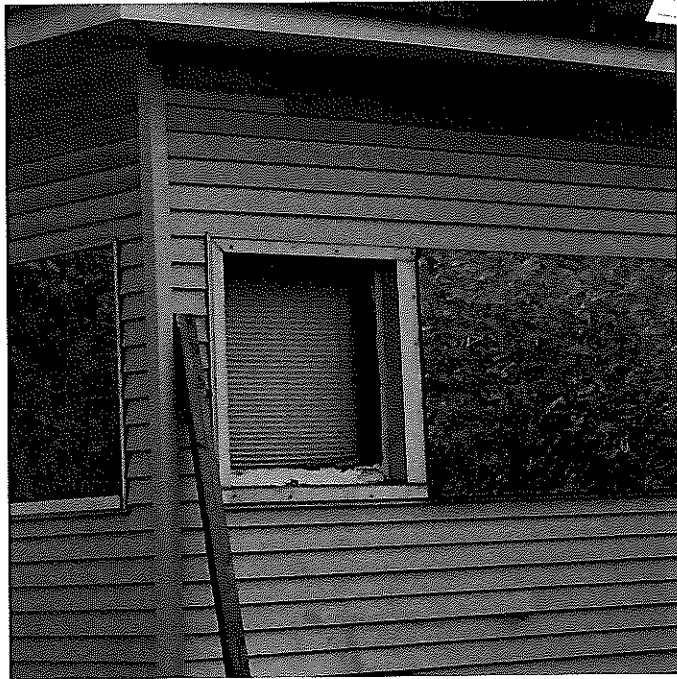
Hole front porch floor



Gap between structures



Un secured window





17.16.060 Uniform standards for sealing an unsafe building.

Pursuant to Indiana Code §§ 36-7-9-5(a)(2) and 36-7-9-5(a)(8), this section hereby establishes a uniform standard for sealing an unsafe building against intrusion by unauthorized persons when such an order is issued by the housing and neighborhood development department or the board of public of works:

- (a) All openings of a building shall be closed.
- (b) Openings that are more than one square foot in area and located less than twenty feet above the ground or that are accessible from a part of the building such as a fire escape or other means of access shall be secured by the following means:
 - (1) Plywood or oriented strand board, covered with a weatherproofing substance such as exterior paint or varnish, similar in color to the exterior of the building and cut to the inside dimension of the exterior of the opening, shall be placed in all openings in such a way that no portion of the plywood or oriented strand board extends outside the existing frame.
 - (A) The plywood or oriented strand board shall be placed against any existing exterior window slide trim or a furring strip.
 - (B) If there is no slide trim or furring strip, an equivalent block shall be installed.
 - (C) The slide trim, furring strip or block shall be sufficient to prevent the plywood or oriented strand board from being pushed inward.
 - (D) The plywood or oriented strand board shall be affixed to the exterior frame by use of two and three-quarters-inch or longer ring nails spaced a maximum of eight inches apart.
 - (2) Where the inside dimension of the opening exceeds twenty-six square feet in area, additional exterior support shall be provided by placing continuous pieces of nominal two-inch by four-inch framing grade lumber on the outside of the plywood or oriented strand board in such a manner that every carriage bolt used in the opening passes through and joins such a piece of nominal two-inch by four-inch lumber, the plywood or oriented strand board and the interior brace.
 - (A) The round head of the bolt shall be on the outside of such pieces of nominal two-inch by four-inch lumber that gives exterior support.
 - (B) The pieces of nominal two-inch by four-inch framing grade lumber shall be covered with a weatherproofing substance such as exterior paint or varnish, similar in color to the exterior of the building.
 - (3) In case of a ground level door the following method of securing shall be used:
 - (A) The door shall be placed in good repair including, but not limited to, closing any openings in the door, repairing hinges on the door and providing for an adequate closure to the opening; and
 - (B) The door shall be locked by the use of not less than two hasp locks and padlocks to be located equidistant from the top and bottom casing and each other.
 - (C) If no door exists, or if it is impractical to repair the existing door, the opening shall be secured in the manner described in this subsection, substituting, however, a piece of plywood or oriented strand board for the door. They plywood or oriented strand board shall be covered with a weatherproofing substance such as exterior paint or varnish, similar in color to the exterior of the building.

- (c) Any opening that is less than one square foot in area or that is both more than twenty feet above the ground and not accessible from a part of the building shall be covered so as to prevent the entry of birds, rats or other animals and shall be made weather tight. The covering shall be painted in color similar to the exterior of the building.
- (d) The materials used to secure the openings of a building pursuant to these standards shall meet the following specifications:
 - (1) Plywood or oriented strand board: no less than one-half-inch exterior grade;
 - (2) Braces: no less than nominal two-inch by four-inch framing grade lumber; and
 - (3) Bolts: no less than three-eighths-inch carriage bolts.
- (e) The housing and neighborhood development department or board of public works may allow the use of other materials and methods of securing openings, including the use of existing doors, if it is shown that, as related to the particular circumstances, the objectives of these standards would be met by the use of such materials and methods.

(Ord. No. 14-23, § 1, 10-29-2014)





BLAY DRAGONS

NO TRESPASSING



HAU
TR

POSTED

Handwritten graffiti or markings on the side wall.















BOARD OF PUBLIC WORKS
RESOLUTION 2024-001
Unsafe Order for 410 – 414 S. Walnut Street, Bloomington, Indiana

WHEREAS, the City of Bloomington Housing and Neighborhood Development (“HAND”) issued an **Order To Vacate** and **Order to Remove** (collectively, the “Orders”) on real estate located at 410 – 414 S. Walnut Street, Bloomington, Indiana (the "Property") because the structure is unsafe as defined by both Indiana Code section 36-7-9 and Chapter 17.16 of the Bloomington Municipal Code; and

WHEREAS, HAND issued an Order to the owner of record for the Property, and those individuals or corporations who are believed to have a substantial interest in the Property, in accordance with the rules and procedures outlined in Indiana Code section 36-7-9 *et seq.* and Chapter 17.16 of the Bloomington Municipal Code; and

WHEREAS, the Board of Public Works heard testimony and reviewed evidence on this Order at its Regular Meeting of Tuesday, December 5, 2023;

WHEREAS, the Board of Public affirmed the Order to Vacate in Resolution 2023-81 and continued the hearing on the Order to Remove; and

WHEREAS, the Board of Public Works resumed testimony and review of the evidence on the Order to Remove at its Regular Meeting of Tuesday, January 2, 2023.

NOW, THEREFORE, BE IT RESOLVED THAT THE BOARD OF PUBLIC WORKS HEREBY:

- Affirms the Order to Remove issued by HAND on November 16, 2023.
- Rescinds the Order to Remove issued by HAND on November 16, 2023.
- Modifies the Order to Remove issued by HAND on November 16, 2023. This modification is less stringent than HAND's original Order and now requires the property owner to take the following actions:

So Ordered this 2nd day of January, 2024.

By: _____
Kyla Cox Deckard, President of the Board

STATE OF INDIANA)
) SS:
COUNTY OF MONROE)

Before me, a Notary Public in and for said County and State, personally appeared _____, of the City of Bloomington Board of Public Works, who acknowledged the execution of the foregoing Resolution as a voluntary act and deed.

Signature of Notary Public

Date Commission expires

Name of Notary Public

Commission Number

County of Residence



Board of Public Works Staff Report

Project/Event: Resolution 2024-002 Confirming the Appointment of Adam George Wason as Director of the Department of Public Works

Petitioner/Representative: Legal

Staff Representative: Margie Rice

Meeting Date: January 2, 2024

On January 1, 2024, Mayor Kerry Thomson appointed Adam George Wason as Director of the Department of Public Works.

According to Indiana Code 36-4-9-2, the appointment of a Director of Public Works is subject to the approval of the Board of Public Works, therefore Staff requests that the Board of Public Works hereby confirms Mayor Kerry Thomson's appointment of Adam George Wason as Director of the Department of Public Works of the City of Bloomington, Indiana.

Recommend **Approval** **Denial by** Margie Rice

CITY OF BLOOMINGTON
BOARD OF PUBLIC WORKS

Resolution 2024-002
Confirming the appointment of Adam George Wason
as Director of the Department of Public Works

Whereas the Common Council of the City of Bloomington, Indiana has established a Department of Public Works, BMC 2.10.000; and

Whereas, on January 1, 2024, Mayor Kerry Thomson appointed Adam George Wason as Director of Public Works; and

Whereas, Indiana Code 36-4-9-2 states that appointment of a Director of Public Works is subject to the approval of the Board of Public Works.

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF BLOOMINGTON, MONROE COUNTY, INDIANA THAT:

The Board of Public Works hereby confirms Mayor Kerry Thomson's appointment of Adam George Wason as Director of the Department of Public Works of the City of Bloomington, Indiana

PASSED AND ADOPTED by the Board of Public Works of the City of Bloomington Indiana, Monroe County, Indiana upon this 2nd day of January 2024.

Kyla Cox Deckard, President

Elizabeth Karon, Vice-President