# 500 PENNSYLVANIA AVENUE Quadplex Multifamily Condominiums







TODD R. CALLAWAY & ASSOCIATES ARCHITECTS - DESIGNERS 4848 Freer Street, Rochester Hills, Michigan 48306 586-243-5945, trcallaway@hotmail.com, www.trcallaway.com

### **GENERAL NOTES**

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF LANSING
- 2. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT LEAST THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL NOTIFY THE CITY OF LANSING'S OFFICE OF ENGINEERING 48 HOURS PRIOR TO THE START OF CONSTRUCTION OF PUBLIC UTILITIES OR CONSTRUCTION IN THE STREET RIGHT-OF-WAY.
- 4. HANDICAPPED PARKING SPACES SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL.
- 5. ACCESS TO A STRUCTURE SHALL BE PROVIDED FOR THE PHYSICALLY HANDICAPPED.
- 6. ONSITE PARKING SHALL BE PROVIDED FOR CONSTRUCTION WORKERS.
- 7. AN AS-BUILT PLANS SHALL BE SUBMITTED TO THE CITY OF LANSING PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT OR RELEASE OF SURETY'S BOND.
- 8. ALL POTENTIAL UTILITY CONFLICTS MUST BE PHYSICALLY DETERMINED PRIOR TO THE START OF CONSTRUCTION OF UTILITIES. A CITY OF LANSING INSPECTOR MUST BE PRESENT.
- 9. FIRE LANES SHALL BE DESIGNED AND CONSTRUCTED PER THE CITY OF LANSING STANDARDS.
- 10. FOUR-FOOT WIDE SIDEWALKS SHALL BE PROVIDED 2.5 FEET OFF OF THE PROPERTY LINE WITHIN THE RIGHTS-OF-WAY. UNLESS A SIDEWALK EASEMENT IS PROVIDED FOR A MEANDERING SIDEWALK OR AN ALTERNATIVE DESIGN IS APPROVED BY THE CITY. BARRIER-FREE RAMPS, PER THE CITY OF LANSING STANDARDS, SHALL BE PROVIDED ON SIDEWALKS AT ALL CURB CROSSINGS.
- 11. MECHANICAL UNITS, DUMPSTERS, AND TRASH COMPACTORS SHALL BE SCREENED IN ACCORDANCE WITH THE ZONING ORDINANCE.
- 12. ALL SIGNAGE CONTINGENT UPON APPROVAL BY THE CITY OF LANSING.
- 13. ALL ELECTRICAL TRANSMISSION, DISTRIBUTION, AND SERVICE LINES SHALL BE UNDERGROUND.
- 14. USES SHALL CONFORM IN OPERATION, LOCATION, AND CONSTRUCTION TO THE CITY OF LANSING STANDARDS FOR NOISE, SMOKE AND PARTICULATE MATTER, ODOROUS MATTER, FIRE OR EXPLOSIVE HAZARD MATERIAL, TOXIC AND NOXIOUS MATTER, VIBRATION, AND/ OR OTHER PERFORMANCE STANDARDS.

### **PROJECT SCOPE**

PROJECT STATEMENT:

THE PROPERTY IS LOCATED AT 500 BLOCK OF PENNSYLVANIA AVENUE, IN LANSING MICHIGAN 48906, THE 0.217-ACRE SITE IS ZONED R-MX MIXED RESIDENTIAL. THE PROPOSED QUADPLEX MULTIPLE FAMILY (TOWNHOUSE) CONDOMINIUM IS A PRINCIPAL PERMITTED USE. THE PROPOSED MULTIPLE FAMILY CONDOMINIUMS MUST COMPLY WITH THE REGULATIONS SPECIFIED IN CHAPTER 1244.12. R-MX MIXED RESIDENTIAL. AND BUT NOT LIMITED TO . THE FOLLOWING REGULATIONS:

•CHAPTER 1250 - GENERAL PROVISIONS •CHAPTER 1252 - LANDSCAPING •CHAPTER 1254 - PARKING

THIS IS NOT A BROWNFIELD SITE AND STORM WATER WILL BE DISCHARGED ONSITE. THIS SITE IS SUBJECT TO THE CONDITIONS AND DEVELOPMENT LIMITATIONS OF LIGHT INDUSTRIAL SPECIFICATIONS.

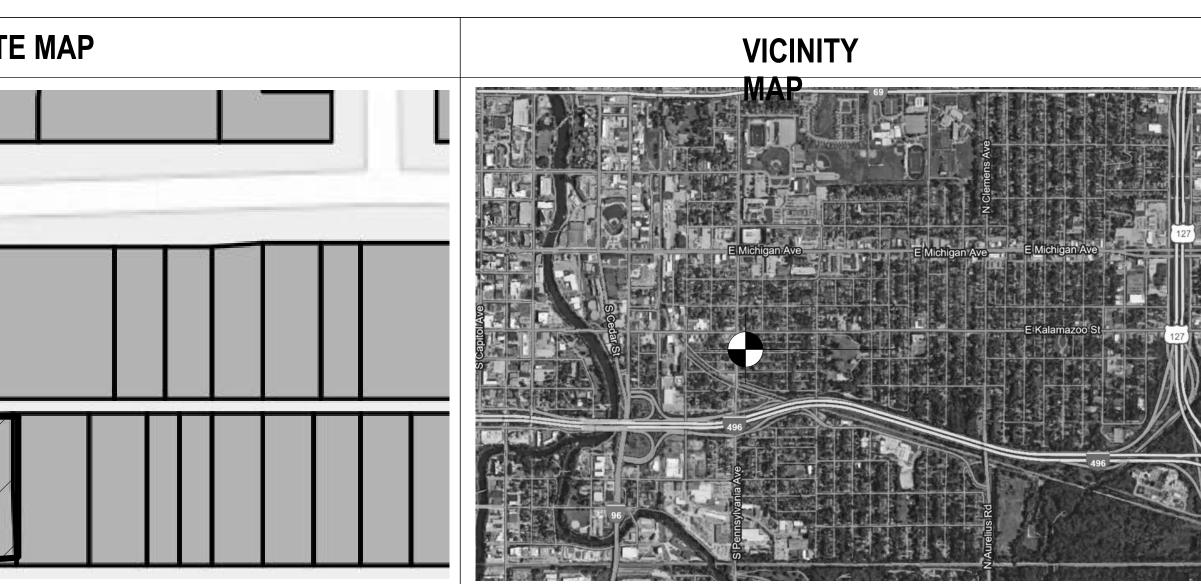
| PROJECT TEAM  | SIT             |
|---|-----------------|
| OWNER:<br>INGHAM COUNTY LAND BANK<br>3024 TURNER RD<br>LANSING, MICHIGAN<br>ENGINEER:<br>C&A ENGINEERING, LLC<br>10722 CORKERY LN GRAND LEDGE, MI 48837<br>CAENGINEERLLC@CAENGINEERSLLC.COM<br>517-898-8152 | Pennsylvania Av |
|   | S               |

# **COVER SHEET**

# INGHAM COUNTY LAND BANK POINTE EAST CONDOMINIUM'S

# 500 BLOCK S. PENNSYLVANIA

LANSING, MI 48912



## **PROJECT SHEET INDEX**

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## **ADDITIONAL DOCUMENTS & REQUIREMENT**

**GEOTECHNICAL INVESTIGATION / SOIL REPORT** 

REPORT ENTITLED GEOTECHNICAL REPORT FOR INGHAM COUNTY LAND BANK, PREPARED BY PROFESSIONAL SERVICES INDUSTRY (PSI), PROJECT GEOTECHNICAL ENGINEER, IS PART OF THE CONSTRUCTION DOCUMENTS. ALL WORK MUST COMPLY WITH SOIL REPORT REQUIREMENTS & RECOMMENDATIONS. THE MICHIGAN BUILDING CODE. AND ALL OTHER APPLICABLE CODES & ENFORCED BY LOCAL JURISDICTION.

#### MICHIGAN ENERGY CODE COMPLIANCE

MICHIGAN ENERGY CODE COMPLIANCE SERVICE PROVIDED BY CUSTOM HOME ENERGY SERVICES-, PO BOX 237, BATH, MI 48808, DATED TBD, IS PART OF THE CONSTRUCTION DOCUMENTS. ALL WORK MUST COMPLY WITH ENERGY REPORT REQUIREMENTS & RECOMMENDATIONS, MICHIGAN ENERGY CODE, & ALL OTHER APPLICABLE CODES & ORDINANCES AS ADOPTED, AMENDED, & ENFORCED BY LOCAL JURISDICTION.

#### COORDINATE WITH STRUCTURAL ENGINEER

COORDINATE WITH ENGINEER TO PROVIDE REQUIRED NOTICE & TO SCHEDULE MANDATORY CONSTRUCTION OBSERVATION. PROVIDE ENGINEER WITH MINIMUM 48 HOURS ADVANCE NOTICE AND THE OPPORTUNITY TO BE PRESENT FOR ANY & ALL SITE VISITS & CONSTRUCTION OBSERVATION ATTENDED BY THE ENGINEER. SUBMIT ALL REQUESTS FOR INFORMATION TO ENGINEER, COPY ALL CORRESPONDENCE WITH PROJECT MANGER AND ALL OTHER PROFESSIONAL CONSULTANTS.

### **CONSTRUCTION OBSERVATION REQUIRED**

GENERAL CONTRACTOR IS REQUIRED TO SCHEDULE & COORDINATE THE FOLLOWING MANDATORY CONSTRUCTION OBSERVATION SITE VISITS WITH ENGINEER PRESENT. PROVIDE NOTICE TO ENGINEER AT LEAST 48 HOURS PRIOR TO SUCH VISITS. PRIOR TO BEGINNING WORK, PROVIDE ENGINEER & OWNER WITH A CRITICAL PATH SCHEDULE SHOWING THE FOLLOWING CONSTRUCTION MILESTONES:

- **1. SITE VISIT MILESTONE**
- 2. GRADING
- 3. STORM WATER/WASTE WATER PRE CONSTRUCTION SITE MEETING
- 4. COMPLETION OF STORM WATER (RAIN GARDEN) CONSTRUCTION
- 5. UTILITY PRE CONSTRUCTION SITE MEETING
- 6. COMPLETION OF STORM WATER CONSTRUCTION
- 7. SOIL EROSION INSPECTION SITE MEETINGS AS NEEDED

### AGENCY REFERRALS

<u>ZONING</u> PLANNING & ZONING 316 N CAPITAL AVE, SUITE D LANSING, MI 48933 PH: (517) 483-4066

<u>FIRE</u>

LANSING FIRE DEPT. 316 N CAPITOL AVE, SUITE C LANSING, MI 48933 PH: (517) 483-4105

**EROSION CONTROL** PUBLIC SERVICE 124 W. MICHIGAN AVENUE 7TH FLOOR CITY HALL LANSING, MI 48933 PH: (517) 483-4455

**ELECTRIC** LANSING BWL 1232 HACO DR, LANSING, MI 48912 PH: (517) 702-6006

<u>GAS</u> CONSUMERS ENERGY 1 ENERGY PLAZA DR. JACKSON, MI 49201 PH: 800-805-0490

<u>ROADWAY</u> 2700 PORT LANSING RD, LANSING, MI 48906 PH: (517) 335-3754



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|--|
| REVISION TABLE<br>REVISED BY DATE  |
| C & A ENGINEERS, LLC<br>10722 CORKERY LN<br>GRAND LEDGE, MI 48837<br>P: 517.898.8152 E: www.caengineersllc.com   |
| INGHAM COUNTY LAND BANK<br>POINTE EAST CONDOMINIUM'S<br>500 BLOCK S. PENNSYLVANIA<br>LANSING, MI 48912   |
| COVER SHEET  |
| OWNER:<br>INGHAM COUNTY LAND BANK<br>3024 TURNER RD LANSING, MICHIGAN  |
| DATE:<br>5/24/2024   |
| SCALE:   |
| SHEET NO:  |

## SITE DATA

PROJECT ADDRESS: OWNER:

500 BLOCK OF PENNSYLVANIA AVE LANSING MI 48906 INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

PARCEL#:

#### 33-01-01-15-378-044, 33-01-01-15-378-043;

LEGAL DESCRIPTION: LOTS 20 & 21 BLOCK 6 LANSING IMPROVEMENT COMPANYS ADD SPLIT/ COMBINED ON 11/14/2022 FROM 33-01-01-15-378-044, 33-01-01-15-378-043;

ZONING: **PROPOSED ZONING:** LOT AREA: UNITS: BLDG. AREA: STORIES: CONSTRUCTION TYPE: VB FIRE SPRINKLERS: NO **BUILDING HEIGHT:** 26'-4" FT PARKING:

R-MX 0.218 ACRES± 4,679 SQ.FT.

R-MX

PARKING PROVIDED: 8 SPACES DIMENSIONS: 10' W X 20' L \*MINIMUM DRIVE AISLE: 24'

### SITE REQUIREMENTS

ACCORDING TO CURRENT CITY ZONING ORDINANCE THIS PROPERTY IS CURRENTLY ZONED "R-MX"

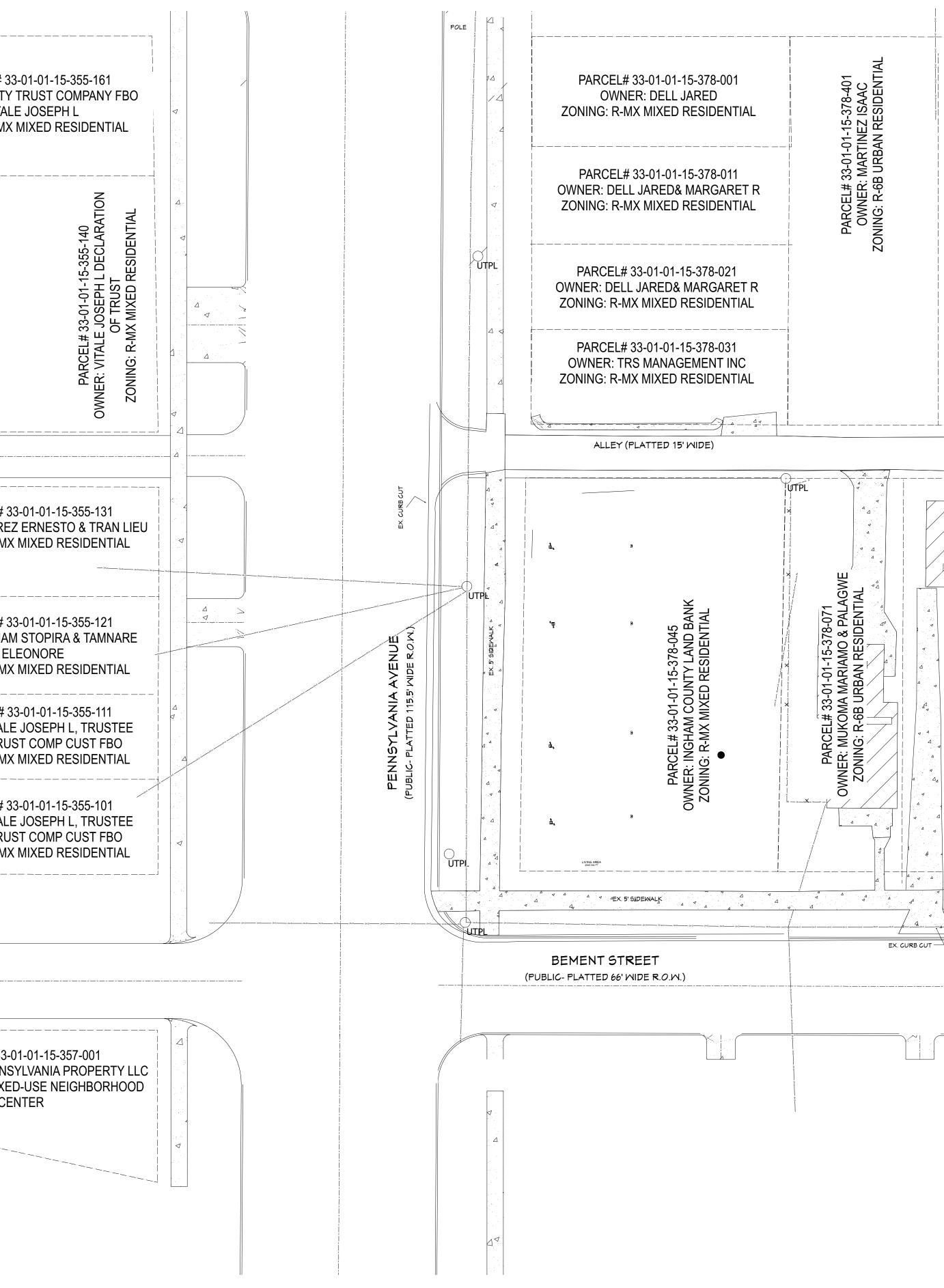
|                              | (a) BUI               | LDING                  | S MASSING                |  |
|------------------------------|-----------------------|------------------------|--------------------------|--|
| A. Minimum Heig              | ht 2                  | 20'                    | 2 Stories                |  |
| B. Maximum Heig              | ht: 4                 | 45'                    | 4 Stories                |  |
| (b                           | ) BUILI               | DING                   | PLACEMENT                |  |
| C. Front Setback             | t                     |                        | 20'                      |  |
| D. Minimum Side<br>Setback   |                       | 5';, toi               | tal of two side yards 15 |  |
| E. Minimum Rear<br>Setback   |                       |                        | 30'                      |  |
|                              | 16                    | Eff                    | ficiency: 1200 sq. ft.   |  |
| Minimum Lot Size             | 1-bdrm: 1300 sq. ft., |                        |                          |  |
| (per dwelling unit)          |                       | 2 bdrm: 1500 sq. ft.,  |                          |  |
|                              |                       | 3+ bdrms: 2200 sq. ft. |                          |  |
| F. Lot Width –<br>min., max. |                       |                        | 40' - 60'                |  |
| G. Lot Depth –<br>min., max. |                       |                        | 150' - 200'              |  |
|                              | Total                 | Imper                  | vious Surfaces           |  |
| Maximum Lot                  | 65%                   |                        |                          |  |
| Coverage                     | Buildi<br>45%         | ng Co                  | verage                   |  |

|            | (c) PARKING  |
|------------|--|
| Parking    | See Chapter 1254 for parking standards.<br>Parking permitted in rear or side yard.<br>Property and Parking Lot Setback /<br>Screening per Chapter 1252 |
| H. Garages | Rear yard or along alley   |

## **LEGEND**

| ۰  | POLE UTILITY - EXISTING             |        |  |
|--|-------------------------------------|--------|--|
|  | POLE UTILITY                        |        |  |
|  | TRANSFORMER - PAD MOUNTED           |        |  |
| •  | TRANSFORMER - POLE MOUNTED          |        |  |
|  | CABLE                               |        |  |
|  | CABLE - TO BE REMOVED               |        |  |
| — — Е-ОН — — —                                 | CABLE OVERHEAD                      |        |  |
| <del>——</del> — Е-Он —— <del>— —</del>         | CABLE OVERHEAD - TO BE REMOVED      |        |  |
|  | CABLE IN CONDUIT                    |        |  |
|  | CABLE IN CONDUIT - TO BE REMOVED    |        |  |
|  | CABLE IN CONDUIT - DIRECTIONAL BORE |        |  |
|  |                                     |        |  |
| COM  | MUNICATION                          |        | FIRE HYDRANT                             |
| F0   | FIBER OPTIC                         |        | GATE VALVE AND BOX<br>GATE VALVE IN WELL |
|  | FIBER OPTIC - OUT OF SERVICE        |        | IRRIGATION CONTROL VALVE                 |
|  | FIBER OPTIC - OVERHEAD              |        | IRRIGATION SPRINKLER HEAD                |
|  | FIBER OPTIC MARKER                  |        | SERVICE METER                            |
| c  | (1997-1997-1997)                    |        | SERVICE SHUTOFF                          |
|  | CABLE - OUT OF SERVICE              | ۲      | WATER WELL                               |
|  | CABLE - OVERHEAD                    |        | IRRIGATION                               |
|  | CABLE MARKER                        |        | WATER MAIN                               |
|  | CABLE PEDESTAL                      | #      | WATER MAIN - OUT OF SERVICE              |
| — - I - — - — -                                |                                     | •··-·· | WATER MAIN - TO BE TAKEN OUT OF SERVICE  |
| <i>─₩</i> ─ −⊺ <i>─ ─₩─ − ₩</i>                |                                     | **     | WATER MAIN - TO BE REMOVED               |
|  | TELEPHONE - OVERHEAD                |        | CATCH BASIN COVER                        |
|  | TELEPHONE BOX                       | 0      | ER                                       |
| C  | TELEPHONE MANHOLE                   | ĩ      |  |
| Φ  | TELEPHONE PEDESTAL                  | •      |  |
| NA   | TURAL GAS                           | •      | SEWER CLEANOUT ACCESS                    |
| G  | - GAS LINE                          | 0      | STRUCTURE BOTTOM (DIA VARIES)            |
| <i>₩</i>                                       | - GAS LINE - OUT OF SERVICE         |        | UTILITY BOX                              |
|  | MARKER                              |        | UTILITY                                  |
| 3  | VALVE                               | R      | GUY ANCHOR                               |
|  | O WELL                              |        | ROW - FREE ACCESS                        |
| SAN  | TARY SEWER                          |        | PARCEL LINE                              |
| G  | MANHOLE WITH COVER (DIA VARIES)     |        | EASEMENT LINE                            |
| _,,,   | SEWER                               | π      | SIGN POST - DOUBLE                       |
| <i></i> /_//_////////////////////////////      | SEWER - OUT OF SERVICE              | т      | SIGN POST - SINGLE                       |
| _> <b>~</b> > <b>~</b> > <b>~</b> > <b>~</b> > | SEWER - TO BE TAKEN OUT OF SERVICE  |        | SIDEWALK                                 |
| <del></del>                                    | SEWER - TO BE REMOVED               |        | CONCRETE                                 |
| 6  | METER                               |        | ASPHALT                                  |
|  |                                     |        |  |
|  |                                     |        |  |

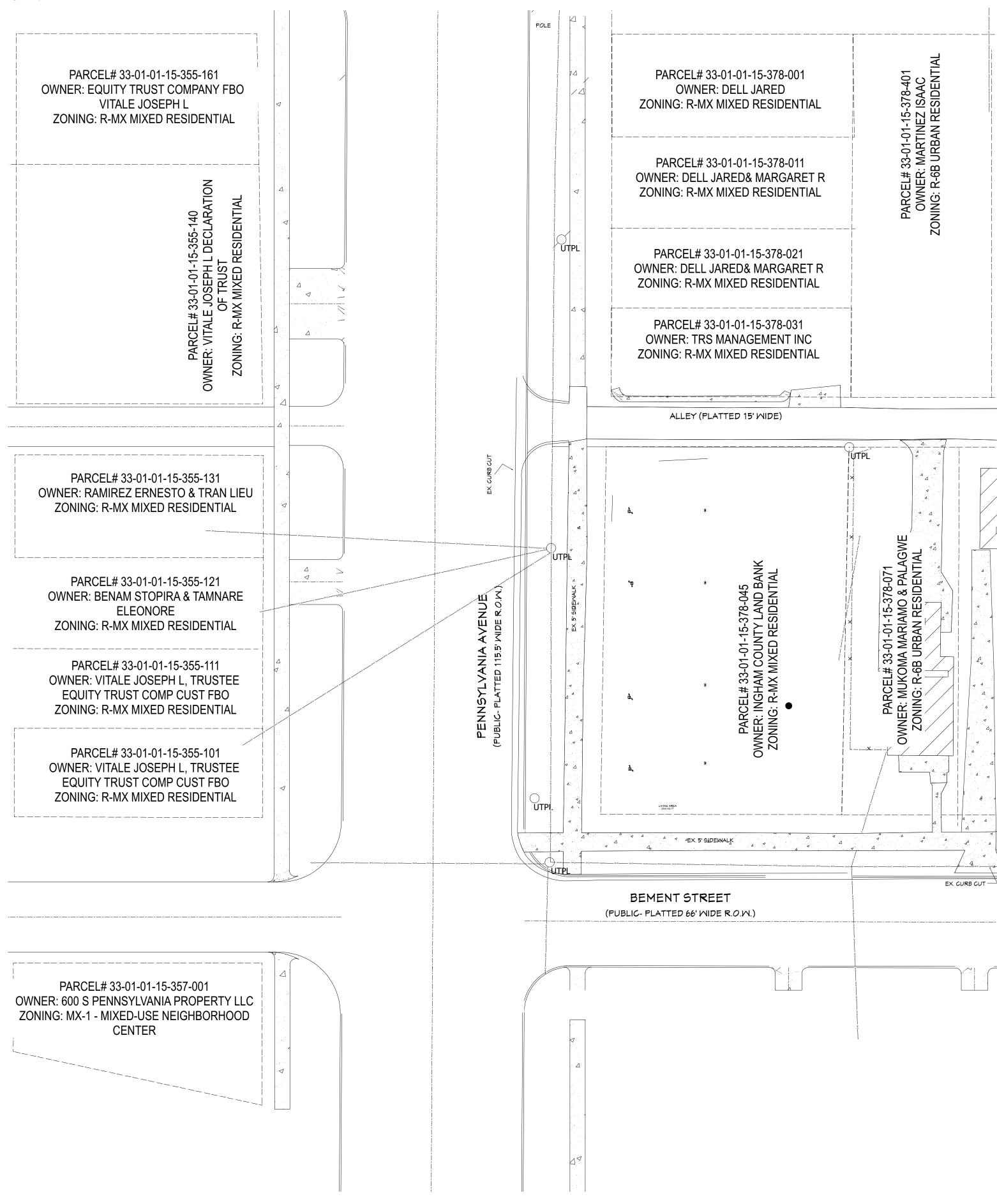
PARCEL# 33-01-01-15-355-161 VITALE JOSEPH L



PARCEL# 33-01-01-15-355-121 ELEONORE

PARCEL# 33-01-01-15-355-111

PARCEL# 33-01-01-15-355-101



# **EXISTING SITE LAYOUT**



PARCEL# 33-01-01-15-378-391 OWNER: GIST MICHAEL ZONING: R-6B URBAN RESIDENT

78-C

15-3 IOSE RES

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PARCEL# 33-01-( OWNER: DUCSA NING: R-6B URB/

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**PROJECT NARRATIVE** 

THE PROPERTY IS LOCATED AT 400 BLOCK OF PENNSYLVANIA AVENUE, IN LANSING MICHIGAN 48906. THE 0.218-ACRE SITE IS ZONED R-MX MIXED RESIDENTIAL. THE PROPOSED QUADPLEX MULTIPLE FAMILY (TOWNHOUSE) CONDOMINIUM IS A PRINCIPAL PERMITTED USE. THE PROPOSED MULTIPLE FAMILY CONDOMINIUMS MUST COMPLY WITH THE **REGULATIONS SPECIFIED IN CHAPTER 1244.12, R-MX** MIXED RESIDENTIAL, AND BUT NOT LIMITED TO, THE FOLLOWING REGULATIONS:

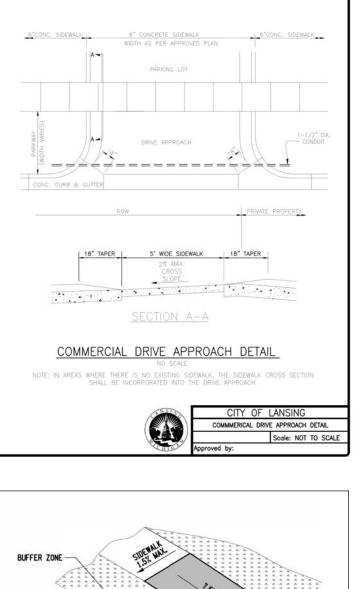
•CHAPTER 1250 - GENERAL PROVISIONS •CHAPTER 1252 - LANDSCAPING •CHAPTER 1254 - PARKING

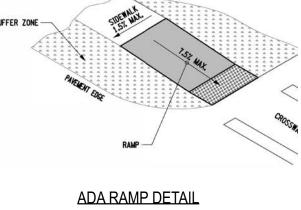
#### **STORMWATER**

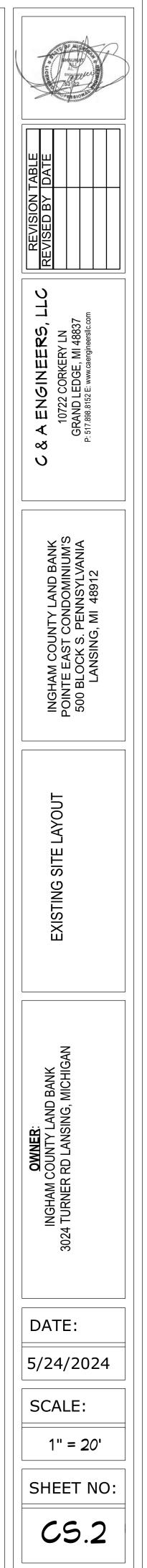
THE PROPERTY CURRENTLY HAS ACCESS TO WATER, ELECTRIC AND SANITARY SEWER SERVICES. THE SITE IS NOT CONNECTED TO ANY STORMWATER SEWER. THE PROPOSED NEW CONSTRUCTION, LAND DISTURBANCE AND ADDITION OF PAVEMENT WILL INCREASE RUNOFF FROM THE SITE, ALL STORMWATER WILL BE COLLECTED AND CONTAINED ON SITE (RAIN GARDEN) AND THEN DISCHARGED TO CITY STORMWATER SYSTEM

### **UTILITY STATEMENT**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS PROVIDED BY SCCMUA. THE SURVEYOR AND/OR ENGINEER MAKES NO **GUARANTEES THAT THE UNDERGROUND UTILITIES** SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND/OR ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND/OR ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.





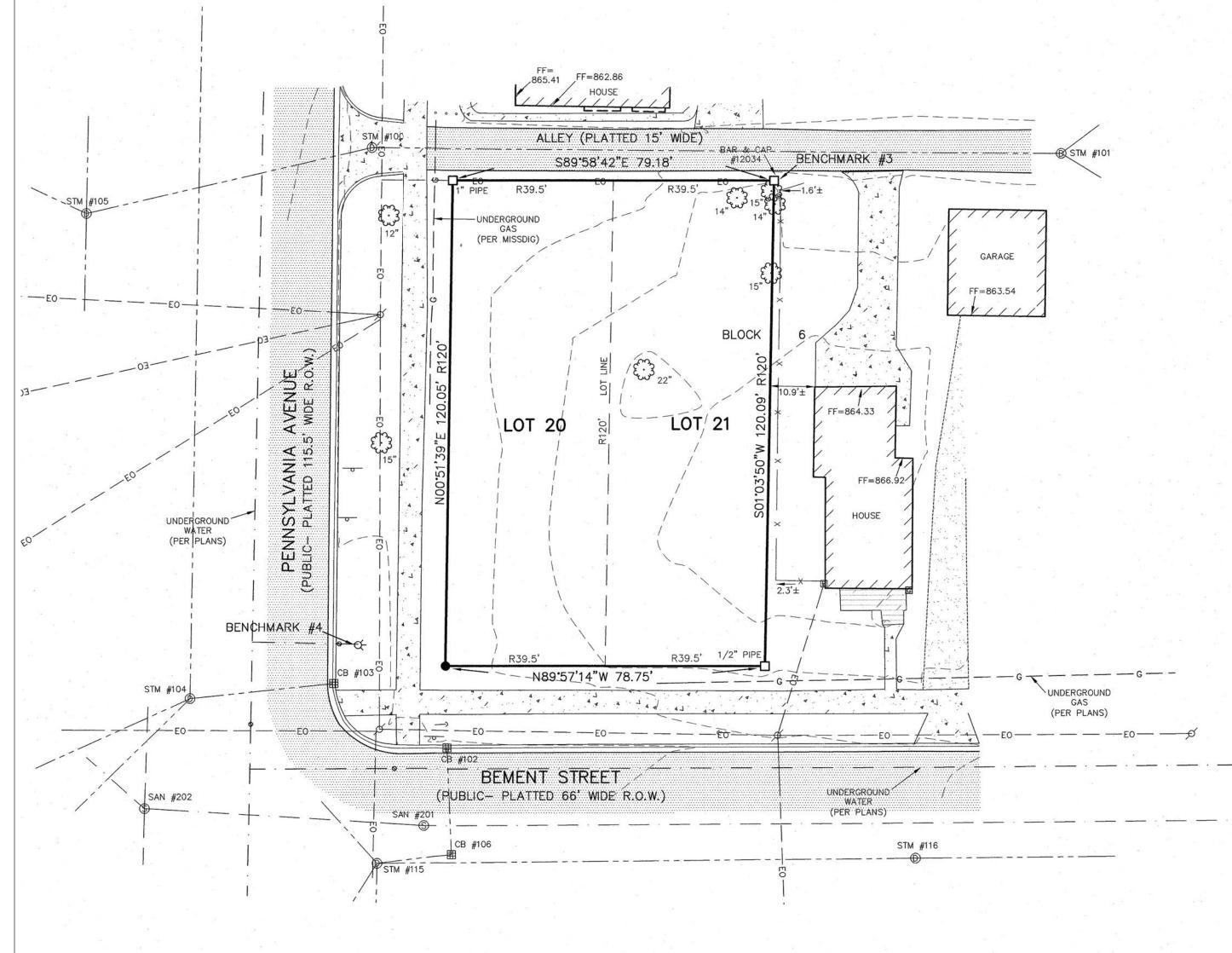


#### INGHAM COUNTY LAND BANK FOR:

#### LEGAL DESCRIPTION: (As provided)

TAX ID: 33-01-01-15-378-045

Lots 20 and 21, Block 6, Lansing Improvement Company's Addition, City of Lansing, Ingham County, Michigan, according to the recorded plat thereof, as recorded in Liber 2 of Plats, Page 14, Ingham County Records.



#### LEGEND

|                  | (M) |  | = MEASURED DIMENSION   | S   | =   | SANITARY MANHOLE  |
|------------------|-----|--|--|---|---|---|
|                  | (R) |  | = RECORDED DIMENSION   | $\bigcirc$  | _   | DRAINAGE MANHOLE  |
|                  | •   |  | = SET 1/2" BAR WITH CAP UNLESS NOTED                                 | ¢-  | -   | FIRE HYDRANT  |
| 727)             |     |  | = FOUND IRON AS NOTED  | ) =   | =   | CATCH BASIN   |
| S and the second |     |  | = DEED LINE  | 0   | =   | VALVE   |
|                  |     |  | = DISTANCE NOT TO SCALE  | <del></del>   |   | SIGN  |
| <del>-x</del>    | ×   | - <del>×-</del>  | = FENCE  | o   | =   | POST  |
|                  |     |  |  | ø   | =   | UTILITY POLE  |
|                  |     |  |  | \$  | =   | LIGHT POLE  |
|                  |     |  | = GRAVEL   | (   | =   | GUY WIRE  |
|                  | 860 |  | = EXISTING CONTOUR ELEVATION   | E   | =   | ELECTRIC METER  |
|                  |     |  | = BUILDING OVERHANG  |   |   |   |
|                  |     | _  | = SANITARY SEWER   |   |   |   |
|                  |     | +  | = STORM SEWER  |   |   |   |
|                  |     | _  | = WATER LINE   |   |   |   |
|                  |     |  | = GAS LINE   |   |   |   |
| -                | -EO | 1  | = OVERHEAD WIRES   |   |   |   |
|                  | Ę.3 |  | = DECIDUOUS TREE   |   |   |   |
|                  | *   | (R)<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | (R)<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | (R) = RECORDED DIMENSION<br>= SET 1/2" BAR WITH CAP UNLESS NOTED<br>= FOUND IRON AS NOTED<br>= DEED LINE<br>= DISTANCE NOT TO SCALE<br>* * = FENCE<br>= ASPHALT<br>= CONCRETE<br>= GRAVEL<br>$g60^{\circ}$ = EXISTING CONTOUR ELEVATION<br>= BUILDING OVERHANG<br>= SANITARY SEWER<br>= GRAVEL<br>= GRAVEL<br>= STORM SEWER<br>= GAS LINE | (R) = RECORDED DIMENSION<br>= SET $1/2"$ BAR WITH CAP UNLESS NOTED<br>= FOUND IRON AS NOTED<br>= DEED LINE<br>= DISTANCE NOT TO SCALE<br>* * = FENCE<br>= ASPHALT<br>= CONCRETE<br>= GRAVEL<br>$60^{\circ}$ = EXISTING CONTOUR ELEVATION<br>= BUILDING OVERHANG<br>= SANITARY SEWER<br>= STORM SEWER<br>= GAS LINE<br>- COURTINE<br>= OVERHEAD WIRES<br>$60^{\circ}$ = OVERHEAD WIRES<br>$60^{\circ}$ = OVERHEAD WIRES<br>$60^{\circ}$ = OVERHEAD WIRES $60^{\circ}$ = OVERHEAD WIRES | (R)= RECORDED DIMENSION $\textcircled{O}$ ==SET 1/2" BAR WITH CAP UNLESS NOTED $\textcircled{C}$ ==FOUND IRON AS NOTED $\textcircled{O}$ ==DEED LINE $\heartsuit$ ==DISTANCE NOT TO SCALE $\Huge{O}$ =**FENCE $\Huge{O}$ ==ASPHALT $\oiint$ ==GRAVEL $\Huge{O}$ = $\Huge{O}$ =EXISTING CONTOUR ELEVATION $\blacksquare$ ==SANITARY SEWER=-=SANITARY SEWER-=GAS LINE-=OVERHEAD WIRES |

# LOT & TOPOGRAPHIC SURVEY "VACANT- S. PENNSYLVANIA AVE, LANSING, MI 48912"

#### SURVEYOR'S NOTES:

1. This plan was made at the direction of the parties named hereon and is intended solely for their immediate use. Survey prepared from fieldwork performed in December 2023.

2. All bearings are Michigan State Plane South Zone grid bearings obtained from GPS observations using corrections obtained from the nearest National Geodetic Survey C.O.R.S. station.

3. All dimensions shown are as-measured unless otherwise noted.

- 4. All elevations are North American Vertical Datum of 1988 (NAVD88).
- 5. All dimensions are in feet and decimals thereof.

6. No building tie dimensions are to be used for establishing the property lines.

7. Easements, if any, not shown hereon.

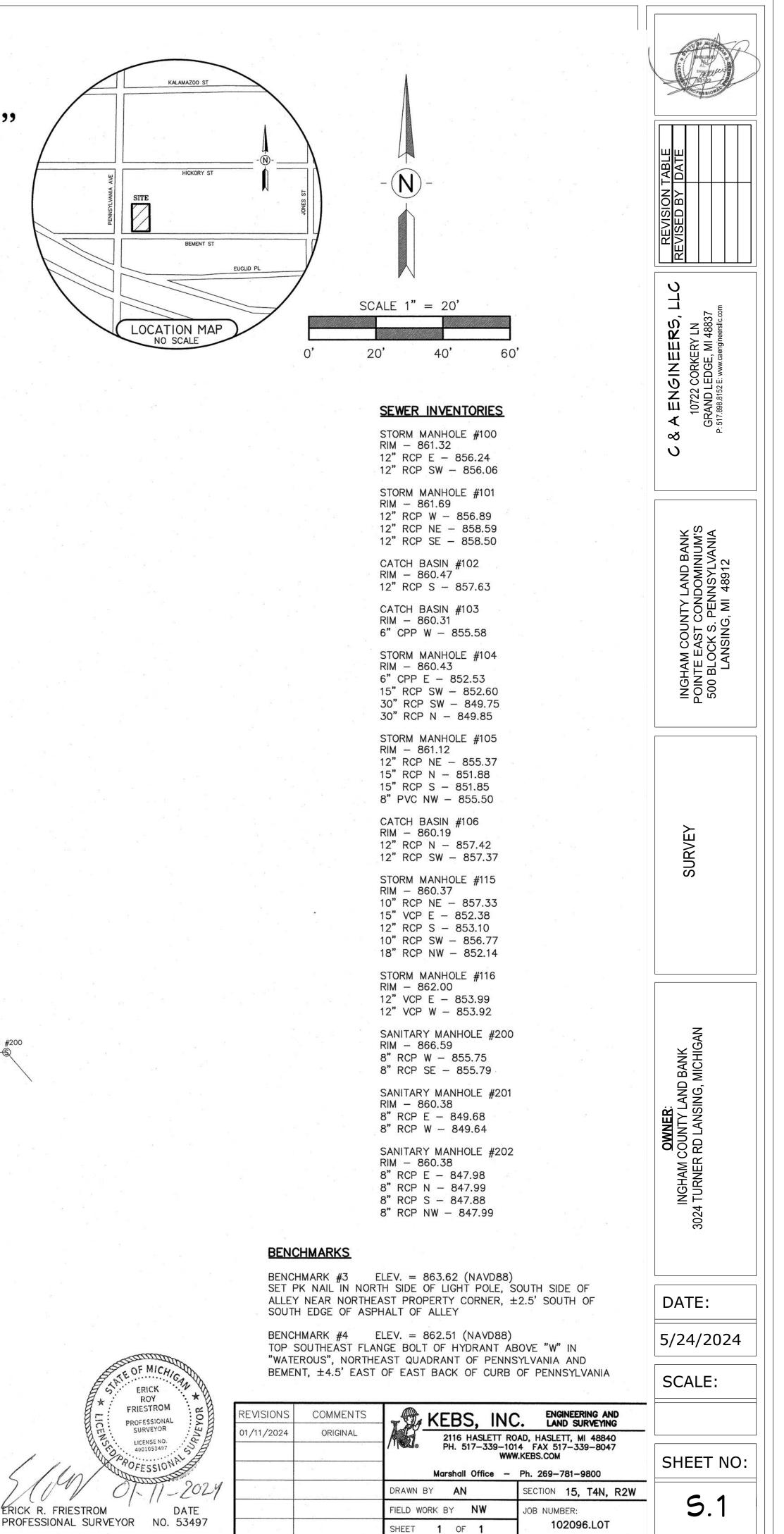
8. By scaled map location and graphic plotting only, this property lies entirely within Flood Zone "X", areas outside the 0.2% annual chance floodplain, according to the National Flood Insurance Program, Flood Insurance Rate Map for the City of Lansing, Ingham County, Michigan, Community Panel No. 260090 0131 D, dated August 16, 2011.

9. Utility information as shown was obtained from available public records and from supporting field observations, where possible, and is subject to verification in the field by the appropriate authorities prior to use for construction. In addition, this parcel was marked by MISS DIG Ticket No. 2023120401904. MISS DIG positive response shows markings were completed by AT&T Telephone for underground telephone, Consumers Energy for underground gas, Lansing City Public Service for sanitary sewer and storm sewer, and Metro Fibernet, LLC, Sprint, and Windstream Communications for fiber optic. Utility markings actually found on site by the field crew were: gas lines.

10. Wetlands, if any, not shown hereon.



SAN #200



## **SITE DATA**

PROJECT ADDRESS: OWNER:

500 BLOCK OF PENNSYLVANIA AVE LANSING MI 48906 INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

PARCEL#:

33-01-01-15-378-044, 33-01-01-15-378-043;

LOTS 20 & 21 BLOCK 6 LANSING IMPROVEMENT COMPANYS LEGAL DESCRIPTION: ADD SPLIT/COMBINED ON 11/14/2022 FROM 33-01-01-15-378-044, 33-01-01-15-378-043;

ZONING: R-MX **PROPOSED ZONING:** R-MX LOT AREA: 0.218 ACRES± UNITS: 4 BLDG. AREA: 4,679 SQ.FT. STORIES: **CONSTRUCTION TYPE: VB** FIRE SPRINKLERS: NO **BUILDING HEIGHT:** 26'-4" FT PARKING:

PARKING PROVIDED: 8 SPACES DIMENSIONS: 10' W X 20' L \*MINIMUM DRIVE AISLE: 24'

#### **FLOOD PLAIN NOTES:**

PROPERTY SHOWN HEREON IS NOT LOCATED IN A FLOOD ZONE PER MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE). THIS SURVEYOR/ENGINEER MAKES NO GUARANTEES AS TO THE ACCURACY OF THE ABOVE INFORMATION.

#### **SANITARY SEWER & WATER NOTE:**

THE SITE CURRENTLY DOES NOT HAS EXISTING WATER SERVICE AND SANITARY SEWER, HOWEVER THE SITE HAS ACCESS TO BOTH WATER AND SEWER

#### **ENGINEERS NOTES:**

THE CURRENT ZONING AS EVIDENCED BY THE CITY IS "R-MX" PER OBSERVATION, THIS SITE IS EITHER CURRENTLY HAS ACCESS TO THE FOLLOWING PUBLIC UTILITIES; SANITARY SEWER GAS, ELECTRIC, AND TELEPHONE. EITHER LOCATED ADJACENT TO THE SUBJECT SITE OR WITHIN PUBLIC RIGHT-OF-WAY.

### **CITY OF LANSING NOTES**

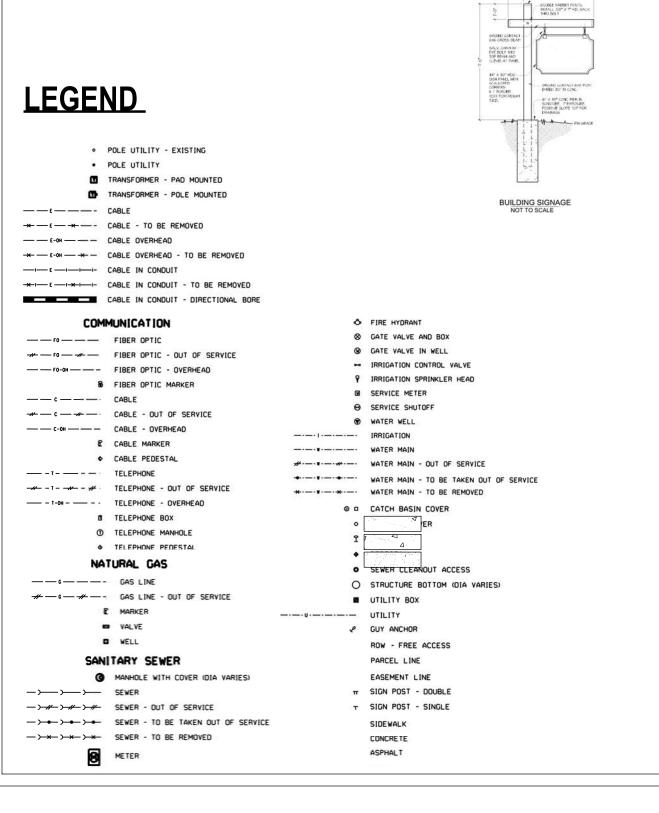
ALL BROKEN AND DAMAGED SIDEWALK ALONG THE PROPERTY R.O.W. SHALL BE REMOVED AND REPLACED BY OWNER. ALL EXISTING SIDEWALK ON THE PROPOSED SITE DETERMINED TO NOT BE ADA COMPLIANT SHALL BE REMOVED AND REPLACED BY OWNER. SIDEWALK REPLACEMENT SHALL BE ACCORDING TO DETAILS SPECIFIED IN THE PLANS AND THE CITY OF LANSING STANDARDS

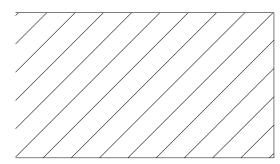
THE CONTRACTOR SHALL OBTAIN A CITY PERMIT FOR ALL ROAD CUTS WHICH WILL BE BACK FILLED PER CITY STANDARDS TO THE BASE COURSE COMPACTED FINISHED GRADE.

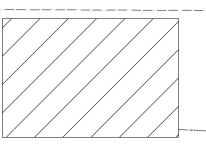
CONTRACTOR SHALL OBTAIN CITY PERMIT FOR ALL CONCRETE WORK INCLUDING CURB AND GUTTER, DRIVE APPROACHES AND SIDEWALKS.

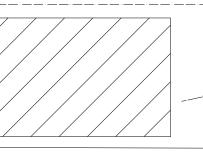
THE CONTRACTOR MUST CONTACT THE CITY OF LANSING. TO SECURE THE REQUIRED PERMITS AND BONDS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR MUST FOLLOW ALL REQUIREMENTS IN THE PERMIT, UTILIZING MAINTAINING TRAFFIC TYPICALS, REQUIRED AND THE PROPER CONSTRUCTION TRAFFIC SIGNING.

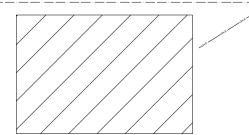
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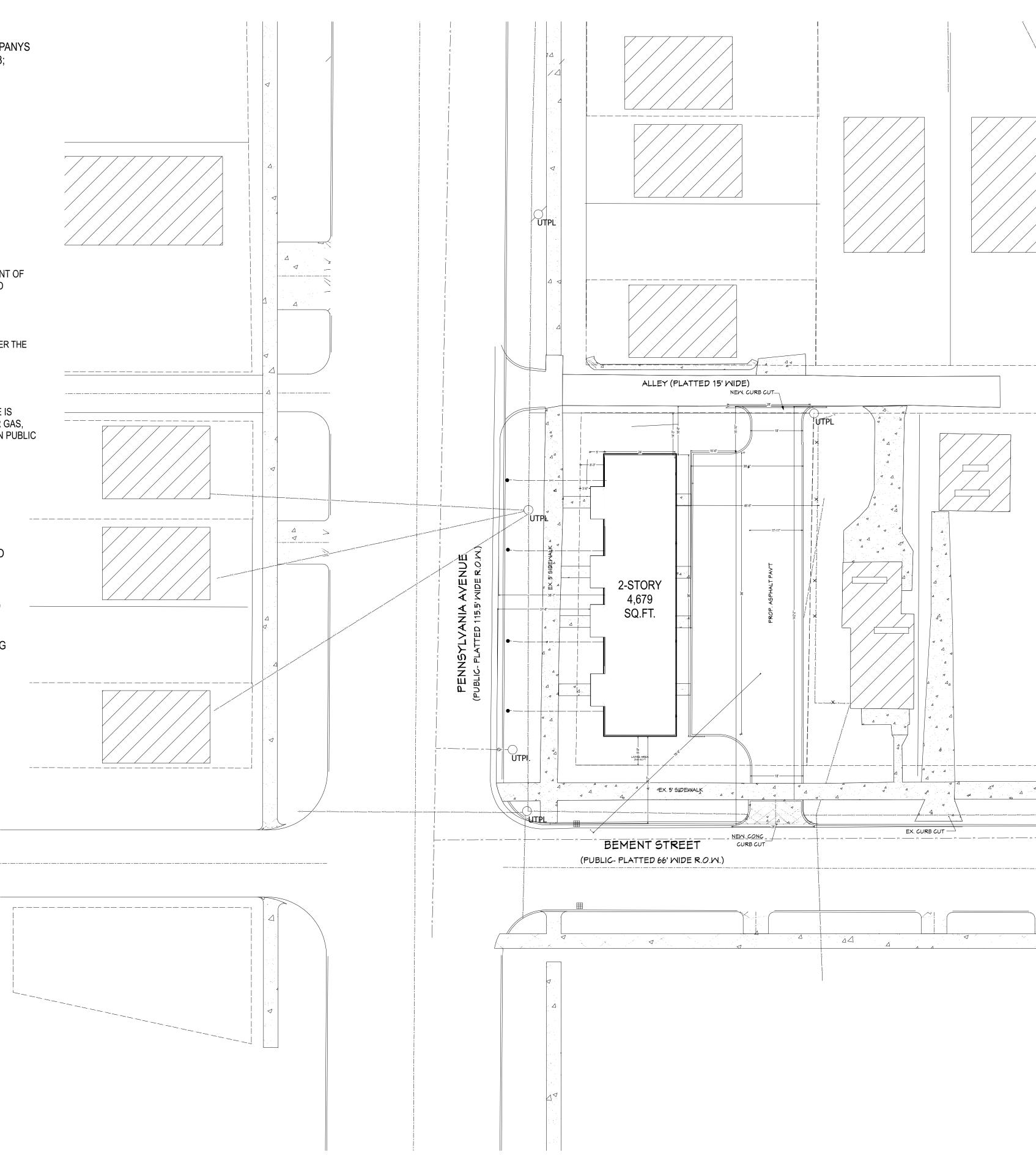












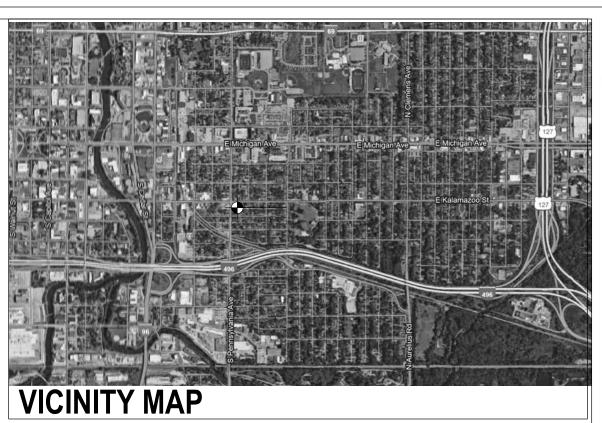
### **UTILITY STATEMENT**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS PROVIDED BY KEBS. THE SURVEYOR AND/OR ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND/OR ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND/OR ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

# **PROPOSED SITE PLAN**



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## **PROJECT SHEET INDEX**

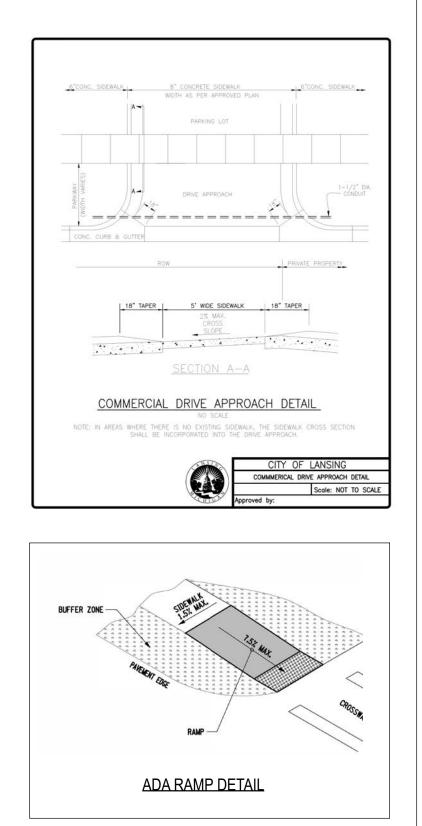
| TITLE                      | SHEET |
|----------------------------|-------|
| COVER SHEET                | 1     |
| EXISTING SITE LAYOUT       | 2     |
| SURVEY                     | 3     |
| PROPOSED SITE PLAN         | 4     |
| SITE PARKING PLAN          | 5     |
| LANDSCAPE & LIGHTING PLAN  | 6     |
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| UTILITIES                  | 8     |
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| STORMTECH DETAILS          | 10    |
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| CONSTRUCTION DETAILS       | 12    |
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## **GREEN SPACE**

TOTAL LOT AREA LAWN: 0.218 ACRES +/-BLDG: 0.107 ACRES (4,679 SQ.FT.) +/-PAV'T: 0.167 (7,274 SQ,FT) +/-

#### LOT COVERAGE CALCULATIONS

BUILDING = BLDG / ACRE = 0.107 / 0.218 = 0.49 = 49% LOT = BLDG+PAV'T / ACRE = 0.167 / 0.218= 0.77 = 77%



| And  |
|--|
| REVISION TABLE<br>REVISED BY DATE  |
| C & A ENGINEERS, LLC<br>10722 CORKERY LN<br>GRAND LEDGE, MI 48837<br>P: 517.898.8152 E: www.caengineersllc.com |
| INGHAM COUNTY LAND BANK<br>POINTE EAST CONDOMINIUM'S<br>500 BLOCK S. PENNSYLVANIA<br>LANSING, MI 48912         |
| PROPOSED SITE PLAN<br>SITE PLAN  |
| OWNER:<br>INGHAM COUNTY LAND BANK<br>3024 TURNER RD LANSING, MICHIGAN  |
| DATE:<br>5/24/2024   |
| SCALE:<br>1" = 20'   |
| SHEET NO:  |
| <b>C</b> .1  |

### CODED NOTES

CO-OWNERS WILL UTILIZE CITY TRASH/DUMPSTER SERVICE.

#### SHEET NOTES

SIDEWALK SHOWN ON SITE PLAN IS FOR GENERAL INFORMATION ONLY. C&A ENGINEERS, LLC IS NOT RESPONSIBLE FOR THESE SCOPES OF WORK MEETING ACCESSIBILITY REQUIREMENTS. SITE MODIFICATIONS SHALL MEET ACCESSIBILITY REQUIREMENTS AND THE OWNER IS TO ASSIGN THIS RESPONSIBILITY.

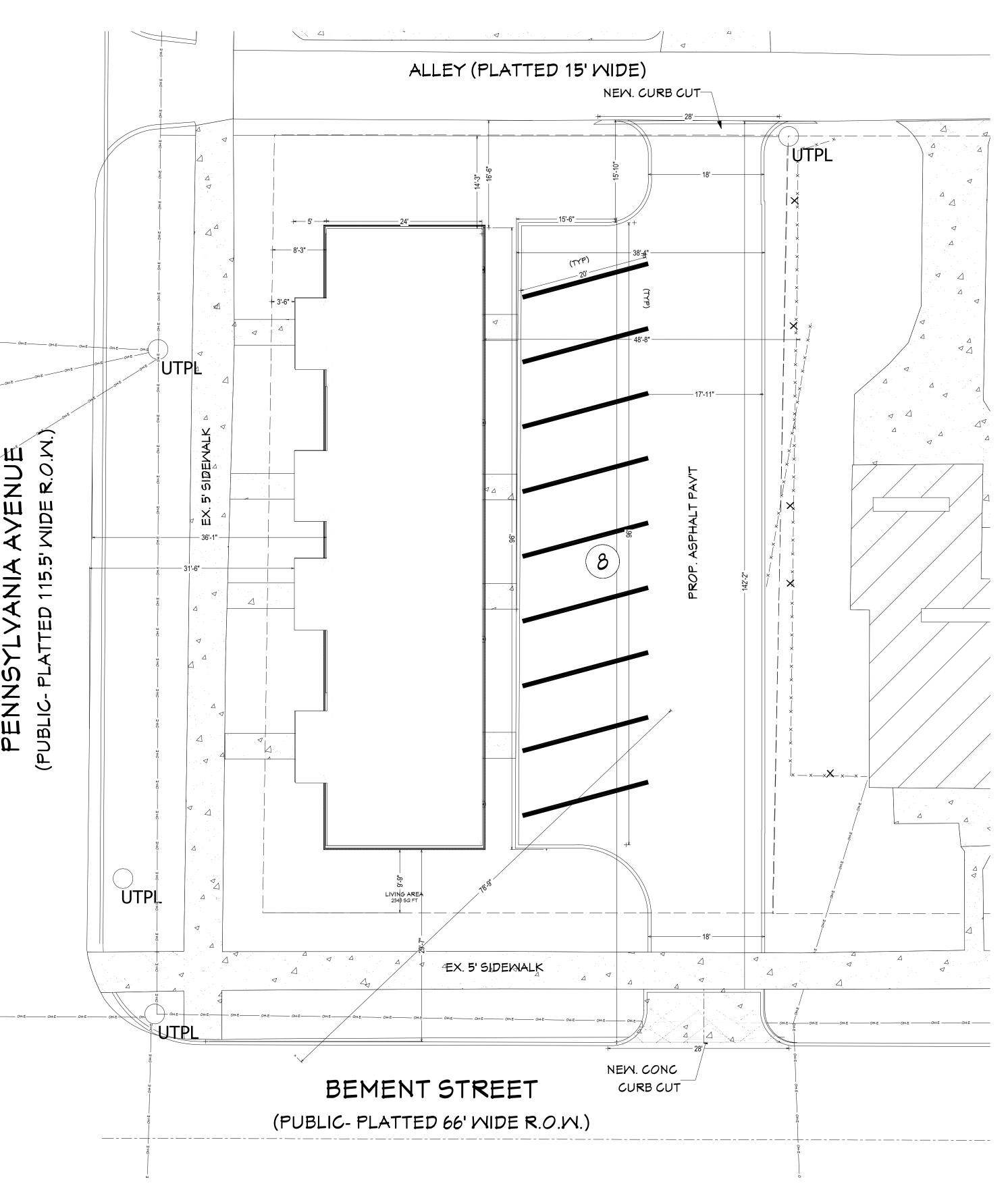
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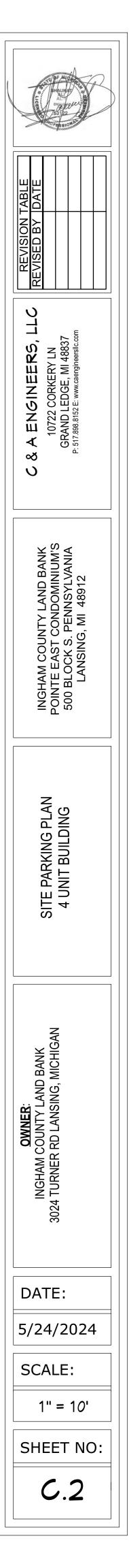
#### PARKING:

PROPOSED STRIPING OF THE PARKING COMPLIES WITH THE TOWNSHIP STANDARDS FOR ZONING "R-MX MIXED RESIDENTIAL"

| Multiple-Family dwellings | One (1) space per each efficiency. One and a half (1.5) spaces per |
|---------------------------|--|
|                           | 1 bedroom dwelling unit. Two (2) spaces per each unit with 2 or    |
|                           | more bedroom.  |

# SITE PARKING PLAN





### **LIGHTING NOTES:**

THE BUILDINGS WILL HAVE EIGHT (8) LIGHTS ON THE BUILDING (ONE (1) AT EACH FRONT AND REAR DOOR ). ALL PROPOSED LIGHTS ARE 1200 LÚMENS

### LANDSCAPE NOTES

PLANT MATERIAL SIZES AND SPACING

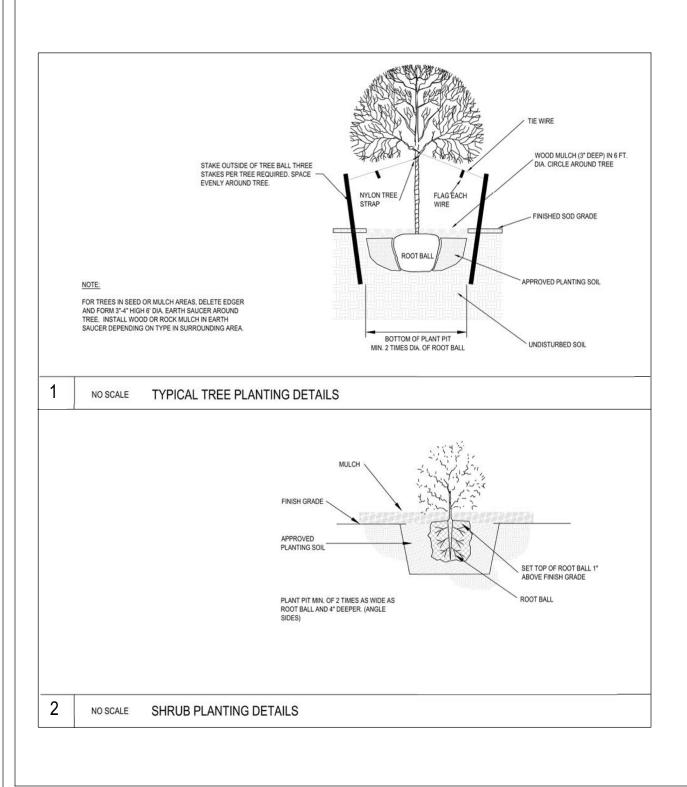
- A) TREES AND WOODY SHRUBS SHALL NOT BE PLACED CLOSER THAN THREE (3) FEET TO THE FENCE LINE OR PROPERTY LINE AS MEASURED FROM THE CENTER OF ROOT BALL. BRANCHES OF TREES MAY EXTEND OVER PROPERTY LINE BUT SHRUBS MUST BE PROPERLY TRIMMED AT THE PROPERTY LINE. ADJACENT PROPERTY OWNERS RESERVE THE RIGHT TO TRIM BRANCHES OF VEGETATION EXTENDING ONTO THEIR PROPERTY.
- B) EVERGREEN TREES SHALL HAVE A MINIMUM STARTING SIZE OF AT LEAST FIVE (5) FEET IN HEIGHT.
- C) DECIDUOUS TREES SHALL HAVE A MINIMUM STARTING SIZE OF AT LEAST TWO CALIPER INCHES.
- D) SHRUBS SHALL HAVE A MINIMUM STARTING SIZE OF AT LEAST 24 INCHES IN HEIGHT AND SPREAD AND SPACED A DISTANCE APART EQUAL TO OR LESS THAN 75 PERCENT OF THE SHRUB'S MATURE SPREAD DIAMETER.

#### **SPECIES**

- A) MIXING OF SPECIES. THE OVERALL LANDSCAPE PLAN SHALL NOT CONTAIN MORE THAN 33 PERCENT OF ANY ONE PLANT SPECIES. THE USE OF TREES NATIVE TO THE AREA, AND MIXTURE OF TREES FROM THE SAME SPECIES ASSOCIATION, IS ENCOURAGED IN ALL LANDSCAPED AREA.
- C) THE USE OF NATIVE VEGETATION SPECIES WITH DEEP ROOTS IN RAIN GARDENS, BIOSWALES, BUFFER AREAS, AND OTHER FORMS OF NATURALIZED LANDSCAPING TO ACCOMPLISH THE GOAL OF STORMWATER RETENTION AND FILTRATION IS ENCOURAGED. D)
- E) PROHIBITED SPECIES. SPECIES DEEMED INVASIVE BY THE STATE OF MICHIGAN OR MICHIGAN STATE UNIVERSITY WILL BE HEAVILY DISFAVORED DURING LANDSCAPE PLAN REVIEW. SUCH INVASIVE SPECIES MAY BE REJECTED IN THE DISCRETION OF THE ZONING ADMINISTRATOR.

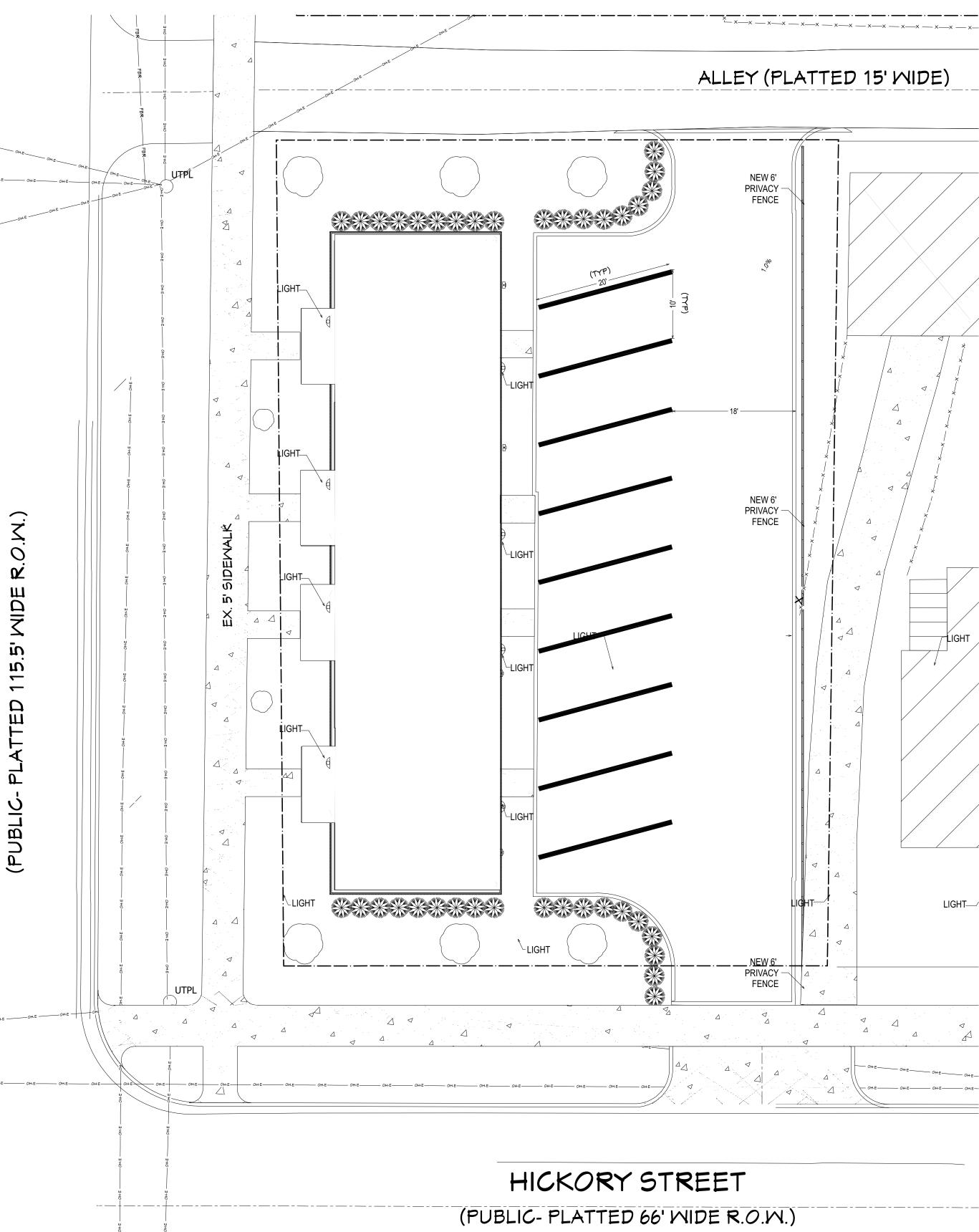
|        | PLANT SCHEDULE |                              |                    |           |  |  |
|--------|----------------|------------------------------|--------------------|-----------|--|--|
| NUMBER | QTY            | COMMON NAMES                 | SCIENTIFIC NAME    | 2D SYMBOL |  |  |
| P01    | 48             | ENGLISH COMMON BOXWOOD       | BUXUS SEMPERVIRENS |           |  |  |
| P02    | 8              | NORWAY MAPLE, EUROPEAN MAPLE | ACER PLATANOIDES   |           |  |  |

|        | ELECTRICAL SCHEDULE |                     |           |        |  |  |
|--------|---------------------|---------------------|-----------|--------|--|--|
| NUMBER | QTY                 | DESCRIPTION         | 2D SYMBOL | LUMENS |  |  |
| E01    | 16                  | BOX SCONCE VERTICAL |           | 1200   |  |  |



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# LANDSCAPE & LIGHTING PLAN



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|--|---|
| REVISION TABLE<br>REVISED BY DATE  |   |
| <b>C &amp; A ENGINEERS, LLC</b><br>10722 CORKERY LN<br>GRAND LEDGE, MI 48837<br>P: 517.898.8152 E: www.caengineersIIc.com  |   |
| INGHAM COUNTY LAND BANK<br>POINTE EAST CONDOMINIUM'S<br>500 BLOCK S. PENNSYLVANIA<br>LANSING, MI 48912   |   |
| LANDSCAPE & LIGHTING PLAN  |   |
| OWNER:<br>INGHAM COUNTY LAND BANK<br>3024 TURNER RD LANSING, MICHIGAN  |   |
| DATE:  |   |
| SCALE:   |   |
| 1" = 15'   |   |
| SHEET NO:  |   |
| C.3  |   |



#### MAINTENANCE NOTES

SOIL EROSION CONTROL MEASURES SHALL BE INSPECTED BY A CERTIFIED STORM WATER OPERATOR ON A WEEKLY BASIS OR WITHIN 24 HOURS OF A PRECIPITATION EVENT RESULTING IN ONE-HALF INCH OR MORE OF RAINFALL. THE OPERATOR MUST KEEP A WRITTEN LOG OF ALL INSPECTIONS AND COMPLETED REPORTS SHALL BE KEPT ON FILE AT THE CONSTRUCTION SITE, ALL REQUIRED MAINTENANCE SHALL BE PROMPTLY PROVIDED.

ALL DIRT AND MUD TRACKED ONTO ROADS DUE TO CONSTRUCTION BE REMOVED ON A DAILY BASIS BY THE CONTRACTOR.

SHOULD DUST BECOME A PROBLEM AT THE SITE, THE CONTRACTOR SHALL PROVIDE WATERING OR OTHER METHOD OF DUST CONTROL ACCEPTABLE TO THE CITY OF LANSING PUBLIC WORKS DEPARTMENT.

TEMPORARY STONE ACCESS DRIVE:

CRUSHED LIMESTONE BASE SHALL BE PLACED ON A GEOTEXTILE LIMESTONE BASE, GEOTEXTILE FILTER CLOTH OR APPROVED ALTERNATIVE.

ADDITIONAL LAYERS OF STONE OR CRUSHED LIMESTONE BASE SHALL BE ADDED IN LAYERS AND COMPACTED.

STEPS SHALL BE TAKEN TO REPAIR IF RUTS OR POOLING WATER APPEAR.

#### SILT FENCE:

BUILT UP SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.

IF SILT FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE, AND THE BARRIER IS STILL REQUIRED. THE FABRIC SHALL BE PROMPTLY REPLACED.

**INLET FILTERS:** 

INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER, WITHIN 24 HOURS OF RAINFALL AND WITHIN 24 HOURS OF RAINFALL DAILY DURING PROLONGED RAIN

BUILT-UP SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.

IF INLET FILTER DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO END OF THE EXPECTED USEABLE LIFE AND THE BARRIER IS STILL REQUIRED, INLET FILTER SHALL BE REPLACED.

#### **GENERAL SOIL EROSION CONTROL NOTES:**

THE CONTRACTOR SHALL CONFORM TO PART 91 OF ACT 451 OF THE PUBLIC ACTS OF 1994; EROSION AND SEDIMENT CONTROL OF RUNOFF DURING CONSTRUCTION (AS AMENDED) AND CURRENT LOCAL ORDINANCES FOR EROSION AND SEDIMENTATION CONTROL

PRIOR TO ANY EARTH CHANGE, THE DEVELOPER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN, COMPLETED APPLICATION AND CHECKLIST FORMS. PAY ALL FEES AND POST AN EROSION CONTROL PERFORMANCE BOND. AS REQUIRED.

CONSTRUCTION OPERATION SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL. EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.

SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER DISCHARGE FROM THE CONSTRUCTION ACTIVITIES IS REQUIRED PRIOR TO ANY EARTH CHANGE

THE CONTRACTOR IS REQUIRED TO KEEP A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN AND PERMIT AT THE CONSTRUCTION SITE.

ALL SOIL EROSION CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL SUCH MEASURES ARE PERMANENTLY STABILIZED AS DETERMINED BY THE SOIL EROSION INSPECTOR.

DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLANS SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE LOCAL JURISDICTION OR THE SOIL **EROSION INSPECTOR.** 

ALL DISTURBED AREAS SHALL BE TOP SOILED, SEEDED, AND FERTILIZED WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL PERMANENT VEGETATION IS ESTABLISHED.

DEWATERING MAY BE REQUIRED. IF REQUIRED, CONTRACTOR SHALL ENSURE THAT DEWATERING DISCHARGE SHALL BE FREE OF ANY SEDIMENTATION PRIOR TO LEAVING THE SITE. IF USING A FILTER BAG, IT SHOULD BE PLACED ON FLAT GROUND TO ENSURE EFFICIENCY. THE FILTER BAG SHOULD BE LOCATED A SUFFICIENT DISTANCE FROM THE EXISTING WATERCOURSE OR WETLAND TO ALLOW PROPER SETTLING OR FILTERING THROUGH NATURAL VEGETATION. DEWATERING DISCHARGE SHALL BE MONITORED FOR ANY EROSIVE CONDITIONS. IF EROSION OCCURS, DEWATERING OPERATIONS MUST CEASE, AND THE ERODED AREA MUST BE STABILIZED IMMEDIATELY, AND MAY RESUME ONLY AFTER STABILIZATION IS COMPLETE.

ANY TEMPORARY SOILS STOCKPILE SHALL OCCUR WITHIN THE LIMITS OF THE SILT FENCE. STOCKPILES TO BE GRADED TO A MAXIMUM OF 3:1 SIDE SLOPE.

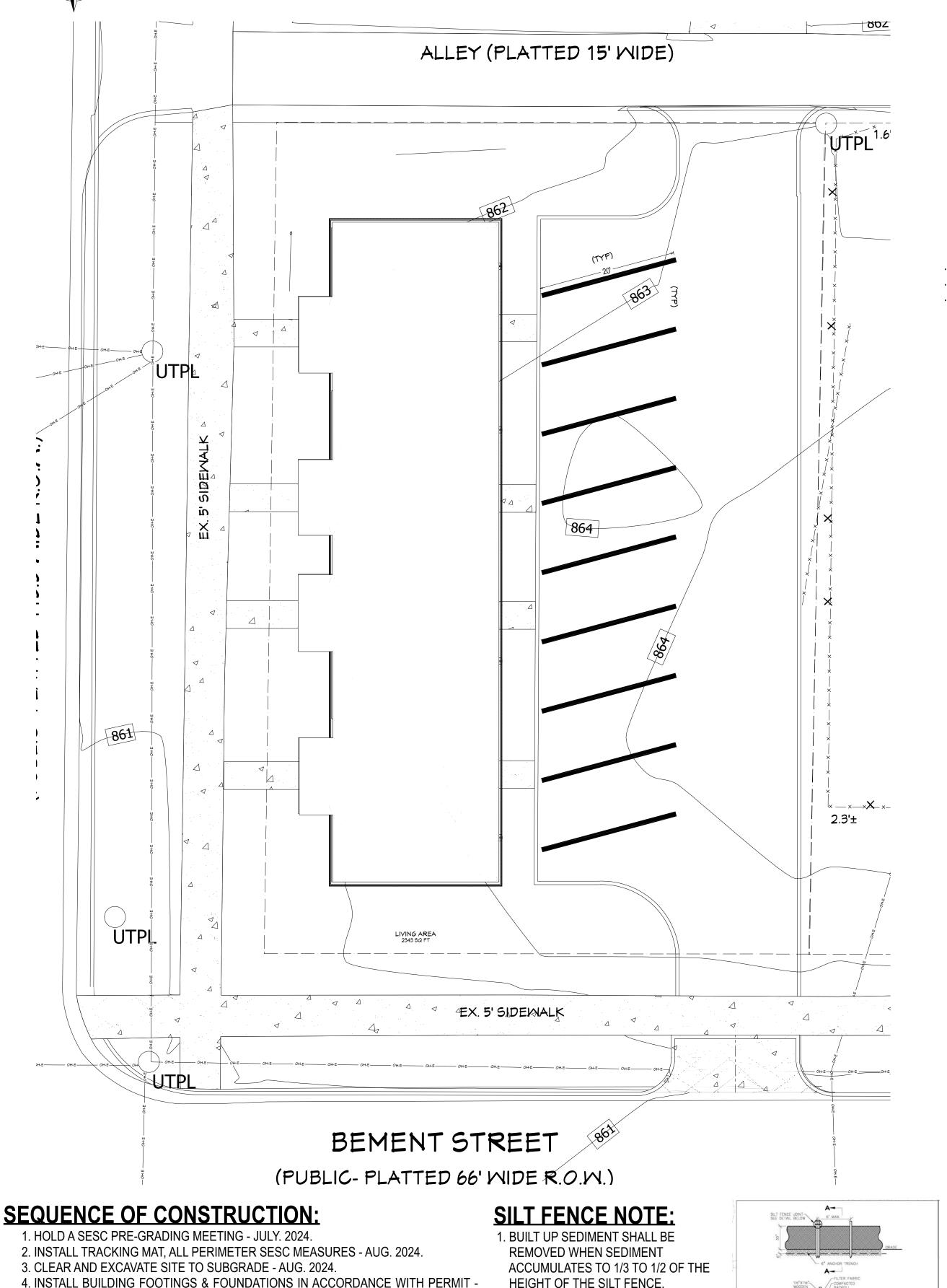
A CONCRETE WASHOUT AREA SHALL BE DESIGNATED AND UTILIZED AS NECESSARY.

GRADING SHALL BE DONE AS TO NOT DISRUPT THE STORM WATER FROM ADJACENT PROPERTIES.

THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY AND PERMANENT CONTROL MEASURES DURING THE DURATION OF CONSTRUCTION.

- AUG. 2024.
- NEEDED
- 2025
- AREAS SEPT. 2025.
- FUNCTIONING.- OCT. 2025
- 11. REMOVE ALL TEMPORARY SESC MEASURES. NOV. 2025.

# SESC/GRADING/DRAINAGE PLAN



5. CONSTRUCT UNDERGROUND UTILITIES - OCT. 2024 6. MAINTAIN SESC MEASURES. INCLUDING CATCH BASINS AND TRACKING MAT - AS

7. BRING ASPHALT PAV'T TO SUBBASE GRADE AND PAV'T LEVEL COURSE - JAN

8. CONTINUE BUILDING CONSTRUCTION - OCT. 2024 9. FINISH GRADE, REDISTRIBUTE TOP SOIL, SEED AND MULCH ALL DISTURBED

10. ENSURE ALL PERMANENT CONTROL MEASURES ARE INSTALLED AND

HEIGHT OF THE SILT FENCE.

2. IF SILT FABRIC DECOMPOSES OR **BECOMES INEFFECTIVE PRIOR TO** THE END OF THE EXPECTED USEABLE LIFE. AND THE BARRIER IS STILL REQUIRED. THE FABRIC SHALL BE PROMPTLY REPLACED.

> A STURDY, LIGHTWEIGHT SUNLIGHT RESISTAN WOVEN POLYPROPYLENE. FABRIC TO BE WRAPPEL AROUND FENCE POST S26 EROSION CONTROL

FILTER FABRIC EXTENDS INTO TRENCH 6"

SECTION A-A

SPECIFICATIONS

U.V. RESISTANCE ASTM D4355 70 (STRENGTH RETAINED)

TEST METHOD 2125

ASTM D4632

ASTM D4491

THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES. INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES. TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS.

PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7 INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO POURING CURBS.

THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL COUNTY, STATE AND/OR UTILITY AUTHORITY REGULATIONS.

MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:

· CURB GUTTER: 0.50% CONCRETE SURFACES: 1.00% · ASPHALT SURFACES: 1.00%

FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY.

# **ADA NOTES**

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS AISLES.

THE CONTRACTOR SHALL PROVIDE COMPLIANT SIGNAGE AT ALL ADA PARKING AREAS IN ACCORDANCE WITH STATE GUIDELINES.

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 5.00% RUNNING SLOPE AND A MAXIMUM OF 2.00% CROSS SLOPE ALONG WALKWAYS WITHIN THE ACCESSIBLE PATH OF TRAVEL (SEE THE SITE PLAN FOR THE LOCATION OF THE ACCESSIBLE PATH). THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ACCESSIBLE PATH OF TRAVEL IS 36 INCHES WIDE OR GREATER UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION AT ALL LANDINGS. LANDINGS INCLUDE, BUT ARE NOT LIMITED TO, THE TOP AND BOTTOM OF AN ACCESSIBLE RAMP, AT ACCESSIBLE BUILDING ENTRANCES, AT AN AREA IN FRONT OF A WALK-UP ATM. AND AT TURNING SPACES ALONG THE ACCESSIBLE PATH OF TRAVEL. THE LANDING AREA SHALL HAVE A MINIMUM CLEAR AREA OF 60 INCHES BY 60 INCHES UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 8.33% RUNNING SLOPE AND A MAXIMUM 2.00% CROSS SLOPE ON ANY CURB RAMPS ALONG THE ACCESSIBLE PATH OF TRAVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 10.00% IF A LANDING AREA IS PROVIDED AT THE TOP OF THE RAMP. FOR ALTERATIONS, A CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 8.33% IF A LANDING AREA IS NOT PROVIDED AT THE TOP OF THE RAMP. CURBS RAMPS SHALL NOT RISE MORE THAN 6 INCHES IN ELEVATION WITHOUT A HANDRAIL. THE CLEAR WIDTH OF A CURB RAMP SHALL BE NO LESS THAN 36 INCHES WIDE.

ACCESSIBLE RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL CONTAIN COMPLIANT HANDRAILS ON BOTH SIDES OF THE RAMP AND SHALL NOT RISE MORE THAN 30" IN ELEVATION WITHOUT A LANDING AREA IN BETWEEN RAMP RUNS, LANDING AREAS SHALL ALSO BE PROVIDED AT THE TOP AND BOTTOM OF THE RAMP.

A SLIP RESISTANT SURFACE SHALL BE CONSTRUCTED ALONG THE ACCESSIBLE PATH AND WITHIN ADA PARKING AREAS.

## **GRADING NOTES**

ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE

A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN. LLC. IF THIS CONDITION CANNOT BE MET.

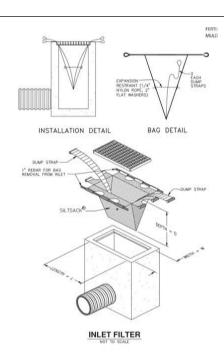
THE CONTRACTOR SHALL ENSURE A MAXIMUM OF 1/4 INCHES VERTICAL CHANGE IN LEVEL ALONG THE ACCESSIBLE PATH. WHERE A CHANGE IN LEVEL BETWEEN 1/4 INCHES AND 1/2 INCHES EXISTS, CONTRACTOR SHALL ENSURE THAT THE TOP 1/4 INCH CHANGE IN LEVEL IS BEVELED WITH A SLOPE NOT STEEPER THAN 1 UNIT VERTICAL AND 2 UNITS HORIZONTAL (2:1 SLOPE).

THE CONTRACTOR SHALL ENSURE THAT ANY OPENINGS (GAPS OR HORIZONTAL SEPARATION) ALONG THE ACCESSIBLE PATH SHALL NOT ALLOW PASSAGE OF A SPHERE GREATER THAN 1/2 INCH.

## **INLET FILTERS NOTE:**

**1. INLET FILTERS SHALL BE INSPECTED** WEEKLY UNDER NORMAL CONDITIONS. WITHIN 24 HOURS OF RAINFALL AND DAILY DURING PROLONG RAIN. 2. BUILT UP SEDIMENT AND DEBRIS SHALL

- BE REMOVED PROMPTLY. 3. IF THE FABRIC DECOMPOSES OR
- BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE. AND THE BARRIER IS STILL REQUIRED. THE FABRIC SHALL BE PROMPTLY REPLACED



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| DATE:<br>5/24/2024<br>SCALE:<br>1" = 10'<br>SHEET NO:<br><b>C.4</b>   |  |

### **GENERAL NOTES:**

1. IN THE EVENT OF CONFLICT BETWEEN THESE PLANS AND THE CITY'S STANDARD NOTES, THE CITY'S STANDARDS SHALL PREVAIL.

2. ALL PROPOSED UTILITY MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS, SPECIFICATIONS AND CONSTRUCTION DETAILS OF THE CITY OF LANSING.

3. REFER TO THE STANDARD DETAILS OF THE AUTHORITY HAVING JURISDICTION REGARDING UTILITY TRENCH BEDDING AND BACKFILL REQUIREMENTS.

4. REFER TO THE STANDARD DETAILS OF THE AUTHORITY HAVING JURISDICTION REGARDING REQUIRED MANHOLE AND CASTING DETAILS AND TYPES.

5. CONTRACTOR SHALL COORDINATE SCHEDULING AND PROCEDURES WITH THE AUTHORITY HAVING JURISDICTION PRIOR TO PERFORMING THE PROPOSED CONNECTIONS TO THE EXISTING UTILITIES.

6. A MINIMUM VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED BETWEEN CROSSING UTILITIES, UNLESS OTHERWISE APPROVED.

7. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN SANITARY SEWER LINES AND POTABLE WATER LINES.

8. NO CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE UNTIL AFTER THE NEW MAIN HAS SUCCESSFULLY PASSED BACTERIOLOGICAL AND HYDROSTATIC TESTS.

9. NO CONNECTION RECEIVING STORM WATER, SURFACE WATER OR GROUND WATER SHALL BE MADE TO SANITARY SEWERS.

10. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL UTILITY CONNECTIONS TO THE BUILDING. CONTRACTOR SHALL CONFIRM ALL BUILDING CONNECTION LOCATIONS AND ELEVATIONS AND NOTIFY THE PROJECT TEAM OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

 PRIVATE UTILITIES (INCLUDING ELECTRIC, GAS, PHONE, AND CABLE) SHOWN FOR SCHEMATIC PURPOSES ONLY. ALL PRIVATE UTILITY ROUTING AND INSTALLATION SHALL BE COORDINATED BY THE RESPECTIVE UTILITY COMPANY AND/OR THE CONTRACTOR.

12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND/OR OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES WITHIN THE AREAS OF PROPOSED DEVELOPMENT.

13. THE CONTRACTOR SHALL CALL "MISS DIG"AT LEAST THREE BUSINESS DAYS PRIOR TO THE START OF ANY CONSTRUCTION ON THE SITE.

THERE ARE FIRE WALLS WITHIN THE PROPOSED BUILDING.

15. BOOSTER PUMPS ARE NOT PROPOSED WITHIN THE PROPOSED BUILDING.

16. PIPE MATERIALS FOR PUBLIC SANITARY SEWER SYSTEMS (1) VCP C700ES FOR DIAMETER UP TO 18 INCHES AND DEPTHS LESS THAN 14 FEET. (2) PVC – SDR 26 OR TRUSS PIPE

16. ALL SANITARY SEWER PIPE AND LEADS SHALL BE 6 INCH

## **GRADING NOTES**

ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE.

THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS.

PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7 INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO POURING CURBS.

THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY. STATE AND/OR UTILITY AUTHORITY REGULATIONS.

MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:

· CURB GUTTER: 0.50%

· CONCRETE SURFACES: 1.00%

· ASPHALT SURFACES: 1.00%

A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF THIS CONDITION CANNOT BE MET.

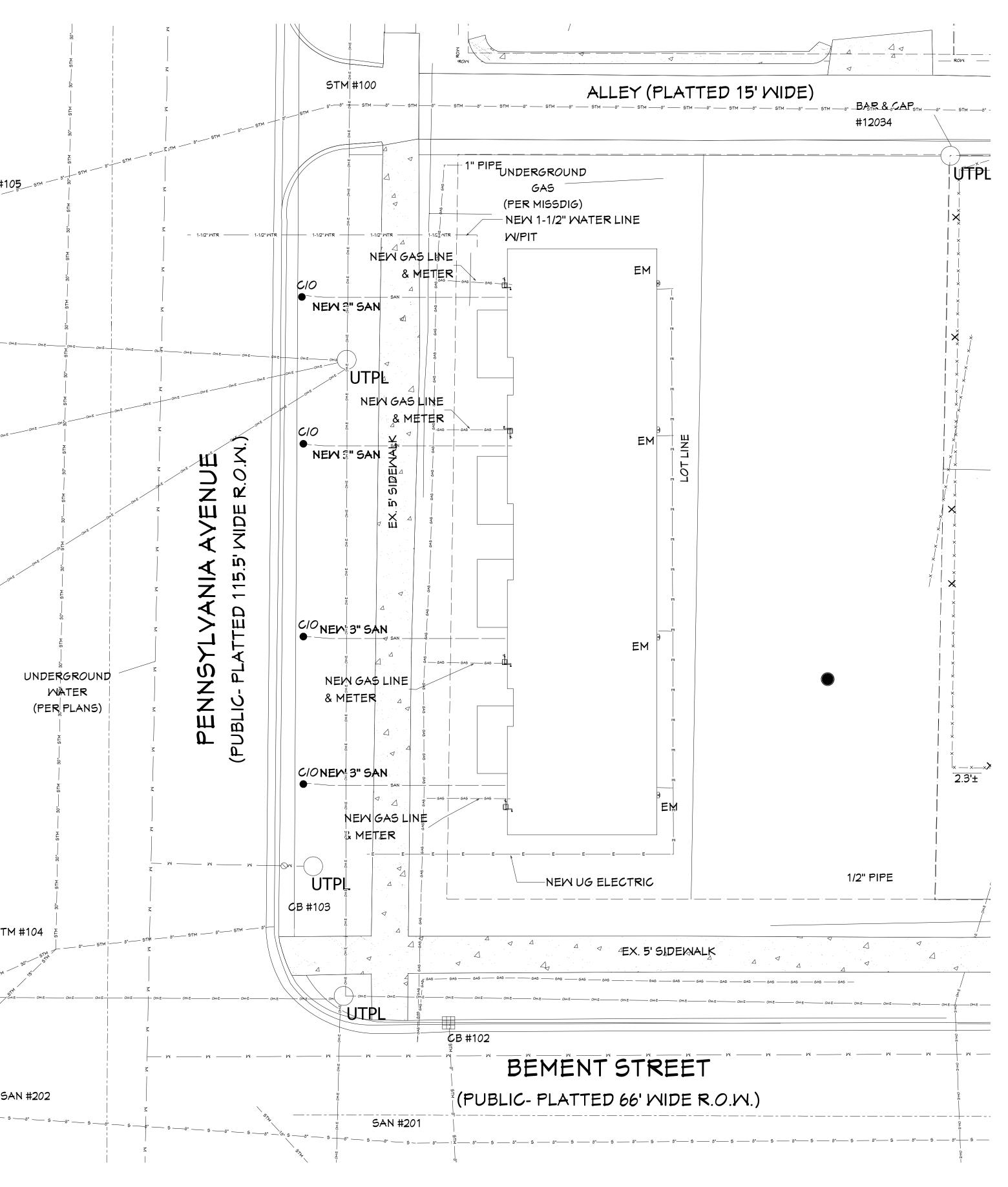
FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY.



SAN #202

**#105** 

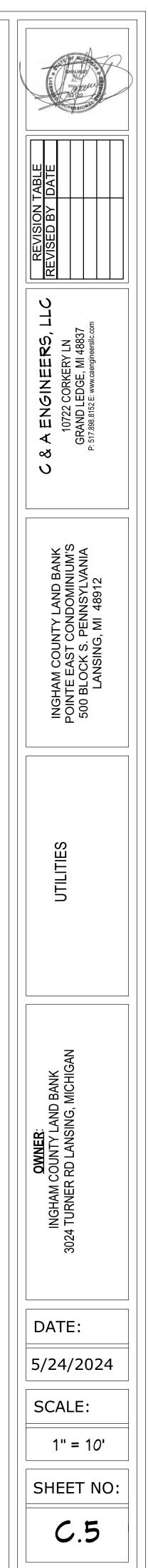
# UTILITIES





## **UTILITY KEY NOTES:**

- 1. CONNECT DIRECTLY TO EXISTING CITY SANITARY. THE LEAD SHALI BE TIED IN TOWARD THE TOP OF THE EXISTING SANITARY SEWER.
- 2. INSTALL 6" PVC-SDR 26, SANITARY SEWER LINE. PIPE SLOPE SHALL BE 1% MIN.
- 3. CONNECT TO NEW GAS LINE AND METER IN FRONT OF EACH UNIT (UNDERGROUND)
- 4. INSTALL NEW ELECTRICAL METER IN REAR OF EACH UNIT AND CONNECT TO NEW ELECTRICAL LINE (UNDERGROUND)
- 5. INSTALL NEW SANITARY SEWER AND CLEAN-OUT (EVERY 100 FEET)
- 6. INSTALL NEW 1-1/2 INCH COPPER WATER LINE SUPPLY SERVICE, WITH SHUT OFF VALVES.
- 7. INSTALL NEW WATER METER IN UTILITY ROOM OF EACH UNIT
- 8. CONNECT TO BWL WATER MAIN COORDINATE WITH BWL



## **GENERAL SHEET NOTES:**

- 1. IN THE EVENT OF CONFLICT BETWEEN THESE PLANS AND THE CITY'S STANDARD NOTES, THE CITY'S STANDARDS SHALL PREVAIL.
- 2. ALL PROPOSED UTILITY MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS, SPECIFICATIONS AND CONSTRUCTION DETAILS OF THE CITY OF LANSING.
- 3. REFER TO THE STANDARD DETAILS OF THE AUTHORITY HAVING JURISDICTION REGARDING UTILITY TRENCH BEDDING AND BACKFILL REQUIREMENTS.
- 4. CONTRACTOR SHALL COORDINATE SCHEDULING AND PROCEDURES WITH THE AUTHORITY HAVING JURISDICTION PRIOR TO PERFORMING THE PROPOSED CONNECTIONS TO THE EXISTING UTILITIES.
- 5. A MINIMUM VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED BETWEEN CROSSING UTILITIES, UNLESS OTHERWISE APPROVED.
- 6. NO CONNECTION RECEIVING STORM WATER, SURFACE WATER OR GROUND WATER SHALL BE MADE TO SANITARY SEWERS.
- 7. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL UTILITY CONNECTIONS TO THE BUILDING. CONTRACTOR SHALL CONFIRM AII BUILDING CONNECTION LOCATIONS AND ELEVATIONS AND NOTIFY THE PROJECT TEAM OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND/OR OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES WITHIN THE AREAS OF PROPOSED DEVELOPMENT.
- 9. THE CONTRACTOR SHALL CALL "MISS DIG"AT LEAST THREE BUSINESS DAYS PRIOR TO THE START OF ANY CONSTRUCTION ON THE SITE.

  Proposed Stormwater Calculation Tool Stormwater Management TRM

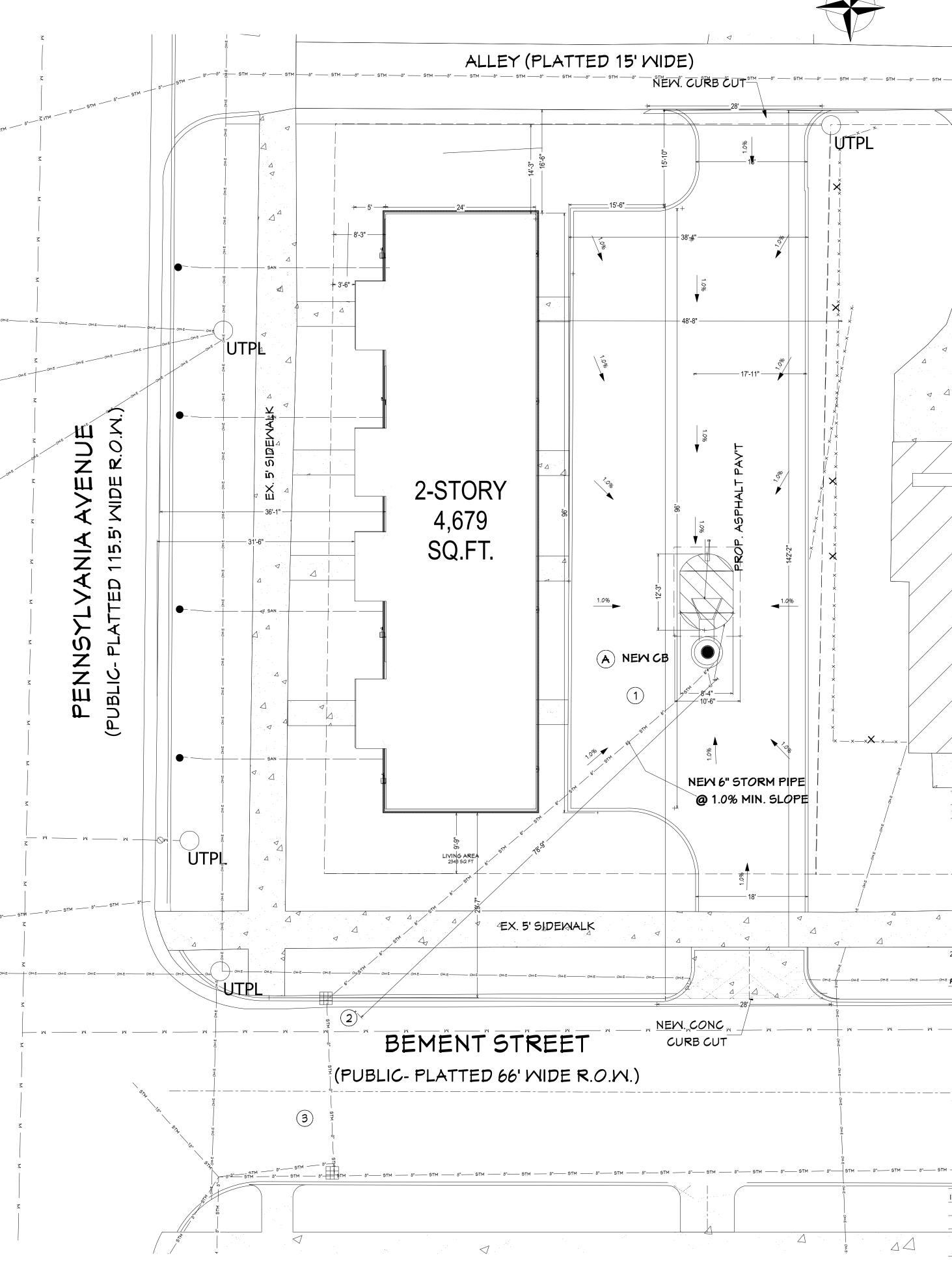
| 2         0.02         Imp           3   | Descript  | POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement)   | Runoff Coefficient (C) 0.30 0.95 Weighted C NOTTONS Runoff Coefficient (C) 0.95 0.30 | A*C<br>0.060<br>0.017<br>0.000<br>0.000<br>0.000<br>0.35<br>A*C<br>0.102     | Curve Number (CN)<br>58<br>91<br>Weighted CN<br>Curve Number (CN)   | A*4<br>111.<br>1.6<br>0.6<br>0.6<br>0.6<br>0.6<br>6 |
|--|---|--|--|--|---|---|
| 25-Year Allowable Peak Discharge*:       * Allowable peak discharge rate shall be used when Reviewing Age flow rate below existing peak flow (based on hydraulic limitation s system). Leave cell BLANK if no restricted rate is specified.       Sub-Drainage District ID   | ency limits<br>of receiving<br>(r<br>vn (Type B)<br>pervious Cover (sid<br>Descript<br>(<br>pervious Cover (pa<br>vn (Type B) | PRE-DEVELOPMENT CON<br>ion/Hydrologic Group<br>select from list)<br>ewalk)<br>POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement) | Runoff Coefficient (C) 0.30 0.95 Weighted C NOTTONS Runoff Coefficient (C) 0.95 0.30 | 0.060<br>0.017<br>0.000<br>0.000<br>0.000<br>0.000<br>0.35<br>- A*C<br>0.102 | 58<br>91<br>Weighted CN   | 111.<br>1.0<br>0.0<br>0.0<br>0.0                    |
| 25-Year Allowable Peak Discharge*:       * Allowable peak discharge rate shall be used when Reviewing Age flow rate below existing peak flow (based on hydraulic limitation s system). Leave cell BLANK if no restricted rate is specified.       Sub-Drainage District ID   | ency limits<br>of receiving<br>(r<br>vn (Type B)<br>pervious Cover (sid<br>Descript<br>(<br>pervious Cover (pa<br>vn (Type B) | PRE-DEVELOPMENT CON<br>ion/Hydrologic Group<br>select from list)<br>ewalk)<br>POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement) | Runoff Coefficient (C) 0.30 0.95 Weighted C NOTTONS Runoff Coefficient (C) 0.95 0.30 | 0.060<br>0.017<br>0.000<br>0.000<br>0.000<br>0.000<br>0.35<br>- A*C<br>0.102 | 58<br>91<br>Weighted CN   | 111.<br>1.0<br>0.0<br>0.0<br>0.0                    |
| flow rate below existing peak flow (based on hydraulic limitations or system). Leave cell BLANK if no restricted rate is specified.           Sub-Drainage District ID         Area           1         0.20 Law           2         0.02 Imp           3         0           4         0           5         0           6         0.22           Yotal area of developed site)         0.22           Sub-Drainage District ID         Area           4         0           5         0           6         0.22           Yotal area of developed site)         0.22           Sub-Drainage District ID         Area           1         0.11 Imp           2         0.05 Law           3         0.06 Imp           4         5           6         6           70TAL AREA (acres)         0.22 | Descript<br>(r<br>vn (Type B)<br>pervious Cover (sid<br>Descript<br>(pervious Cover (pa<br>vn (Type B)                        | ion/Hydrologic Group<br>select from list)<br>ewalk)<br>POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement)                        | Runoff Coefficient (C) 0.30 0.95 Weighted C NOTTONS Runoff Coefficient (C) 0.95 0.30 | 0.060<br>0.017<br>0.000<br>0.000<br>0.000<br>0.000<br>0.35<br>- A*C<br>0.102 | 58<br>91<br>Weighted CN   | 111<br>1)<br>0)<br>0)<br>0)<br>0)                   |
| Sub-Drainage District ID         (acres)           1         0.20 Law           2         0.02 Imp           3   | (t<br>vn (Type B)<br>pervious Cover (sid<br>Descript<br>(t<br>pervious Cover (pa<br>vn (Type B)                               | ion/Hydrologic Group<br>select from list)<br>ewalk)<br>POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement)                        | Runoff Coefficient (C) 0.30 0.95 Weighted C NOTTONS Runoff Coefficient (C) 0.95 0.30 | 0.060<br>0.017<br>0.000<br>0.000<br>0.000<br>0.000<br>0.35<br>- A*C<br>0.102 | 58<br>91<br>Weighted CN   | 111<br>1.<br>0.<br>0.<br>0.<br>0.                   |
| (scres)         (scres)           1         0.20 Law           2         0.02 Imp           3  | (t<br>vn (Type B)<br>pervious Cover (sid<br>Descript<br>(t<br>pervious Cover (pa<br>vn (Type B)                               | ewalk)<br>ewalk)<br>POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement)   | 0.30<br>0.95<br>Weighted C<br>NDITIONS<br>Runoff Coefficient (C)<br>0.95<br>0.30     | 0.060<br>0.017<br>0.000<br>0.000<br>0.000<br>0.000<br>0.35<br>- A*C<br>0.102 | 58<br>91<br>Weighted CN   | 111<br>1.<br>0.<br>0.<br>0.<br>0.                   |
| 2         0.02         Imp           3   | Descript<br>(r<br>pervious Cover (pa<br>vn (Type B)   | POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement)   | 0.95<br>Weighted C<br>NDITIONS<br>Runoff Coefficient (C)<br>0.95<br>0.30             | 0.017<br>0.000<br>0.000<br>0.000<br>0.35<br>A*C<br>0.102                     | 91<br>Weighted CN   | 1.<br>0.<br>0.<br>0.                                |
| 3         4           5         6           TOTAL AREA (acres)         0.22           (total area of developed site)         0.22           Sub-Drainage District ID         Area           1         0.11 lmp           2         0.05 Law           3         0.06 lmp           4         5           6         70TAL AREA (acres)           0.22         0.23  | Descript<br>(:<br>pervious Cover (pa<br>vn (Type B)   | POST-DEVELOPMENT COI<br>ion/Hydrologic Group<br>select from list)<br>vement)   | Weighted C<br>NDITIONS<br>Runoff Coefficient (C)<br>0.95<br>0.30                     | 0.000<br>0.000<br>0.000<br>0.000<br>0.35<br>A*C<br>0.102                     | Weighted CN   | 0   |
| 5         0.22           6         0.22           (total area of developed site)         0.22           Sub-Drainage District ID         Area           1         0.11 lmp           2         0.05 Law           3         0.06 lmp           4         5           6         0.22  | (:<br>pervious Cover ( <b>pa</b><br>vn (Type B)   | ion/Hydrologic Group<br>select from list)<br>vement)   | Runoff Coefficient (C)<br>0.95<br>0.30   | 0.000<br>0.000<br>0.35<br>A*C<br>0.102                                       |   | 0   |
| 6         0.22           TOTAL AREA (acres)         0.22           (total area of developed site)         0.22           Sub-Drainage District ID         Area           1         0.11           2         0.05           3         0.06           4         5           6         0.26   | (:<br>pervious Cover ( <b>pa</b><br>vn (Type B)   | ion/Hydrologic Group<br>select from list)<br>vement)   | Runoff Coefficient (C)<br>0.95<br>0.30   | 0.000<br>0.35<br>- A*C<br>0.102  |   | 0   |
| TOTAL AREA (acres)     0.22       (total area of developed site)     0.22       Sub-Drainage District ID     Area       1     0.11 Imp       2     0.05 Law       3     0.06 Imp       4     0.06 Imp       5     6       TOTAL AREA (acres)     0.22  | (:<br>pervious Cover ( <b>pa</b><br>vn (Type B)   | ion/Hydrologic Group<br>select from list)<br>vement)   | Runoff Coefficient (C)<br>0.95<br>0.30   | 0.35<br>A*C<br>0.102   |   |   |
| Area         Area           Sub-Drainage District ID         Area           1         0.11 lmp           2         0.05 Law           3         0.06 lmp           4         5           6         0.22  | (:<br>pervious Cover ( <b>pa</b><br>vn (Type B)   | ion/Hydrologic Group<br>select from list)<br>vement)   | Runoff Coefficient (C)<br>0.95<br>0.30   | A*C<br>0.102   |   |   |
| Sub-Drainage District ID         (acres)           1         0.11 lmp           2         0.05 Law           3         0.06 lmp           4         5           6         0.02           TOTAL AREA (acres)         0.22   | (:<br>pervious Cover ( <b>pa</b><br>vn (Type B)   | ion/Hydrologic Group<br>select from list)<br>vement)   | Runoff Coefficient (C)<br>0.95<br>0.30   | 0.102  | Curve Number (CN)   | +   |
| Sub-Drainage District ID         (acres)           1         0.11 lmp           2         0.05 Law           3         0.06 lmp           4         5           6         0.02           TOTAL AREA (acres)         0.22   | (:<br>pervious Cover ( <b>pa</b><br>vn (Type B)   | select from list)<br>vement)   | 0.95   | 0.102  | Curve Number (CN)   |   |
| 1 0.11 Imp<br>2 0.05 Law<br>3 0.06 Imp<br>4 5<br>6 5<br>TOTAL AREA (acres) 0.22  | pervious Cover ( <b>pa</b><br>vn (Type B)   | vement)  | 0.30   |  | 100 AU | A   |
| 3 0.06 Imp<br>4 5<br>6 70TAL AREA (acres) 0.22   |   | oftop)   |  | 2322.226   | 98  | 10  |
| 4 5<br>6 70TAL AREA (acres) 0.22   | pervious Cover ( <b>ro</b> o  | oftop)   |  | 0.016  | 58  | 3.  |
| 5 6<br>TOTAL AREA (acres) 0.22   |   |  | 0.95   | 0.054  | 98  | 5.  |
| TOTAL AREA (acres) 0.22  |   |  |  | 0.000  |   | 0.  |
| 0.22   |   |  |  | 0.000  |   | 0.  |
|  |   |  | Weighted C   | 0.79   | Weighted CN   | 8   |
|  |   | Summary  |  |  |   |   |
| Outlet ID  |   |  |  | 0  |   |   |
| Total Acreage (ac)   |   |  |  | 0.22   |   |   |
| Weighted C - Proposed Conditions   | 5   |  |  | 0.79   |   |   |
| Weighted CN - Proposed Conditior   | ns  |  |  | 88   |   | -   |
| Time of Concentration PRE (hr)   |   |  |  | 0.85   |   |   |
| Time of Concentration POST (hr)  |   | 0.85   |  |  |   |   |
| Water Quality (WQ) Volume (ft <sup>3</sup> )   | 14900 B   |  |  | 624  |   |   |
| Channel Protection (CP) Volume (f  |   |  | 1,126  |  |   |   |
| Infiltration Volume (ft <sup>3</sup> ) - <i>Required</i>   | l   |  | 1,126  |  |   |   |
| Infiltration Volume (ft <sup>3</sup> ) - <i>Provided</i>   |   |  | 3,535  |  |   |   |
| 25-Year Peak Allowable Discharge   | 0.00  |  |  |  |   |   |
| 25-Year Flood Protection (FP) Volu   |   |  | 1,785  |  | 2   |   |
|  |   |  |  |  |   | 2   |
| 25-Year TOTAL BASIN VOLUME (ft <sup>3</sup>  |   |  |  | 1,785  | Y   |   |
| 25-Year TOTAL BASIN VOLUME (ft <sup>3</sup>  |   |  |  | 2,598  |   |   |
| 25-Year Volume (ft3) - REQUIRED (  | (net of in  | filtration)  |  | -937   |   |   |
|  |   | Other #1   |  |  |   |   |

| f BMP                                   | STORMTECH CHAMBER |
|---|-------------------|
| Avg Design Infiltration Rate<br>(in/hr) | 0.00              |
| ea (ft²)                                | 0                 |
| lume (ft <sup>3</sup> )                 | 2,910             |

///ADS

| User Input  | ts   | Results   |   |
|---|--|---|---|
| Chamber Model:  | MC-7200  | System Volume and   | Bed Size  |
| Outlet Control Structure:<br>Project Name:<br>Engineer:<br>Project Location:<br>Measurement Type:<br>Required Storage Volume:<br>Stone Porosity:<br>Stone Foundation Depth:<br>Stone Above Chambers:<br>Design Constraint Dimensions: | Yes<br>400 Pennsylvania Ave<br>James CARTER<br>Michigan<br>Imperial<br>2598 cubic ft.<br>40%<br>9 in.<br>12 in.<br>(94 ft. x 35 ft.) | Installed Storage Volume:<br>Storage Volume Per Chamber:<br>Number Of Chambers Required:<br>Number Of End Caps Required:<br>Chamber Rows:<br>Maximum Length:<br>Maximum Width:<br>Approx. Bed Size Required:<br>Average Cover Over Chambers:<br>System Compon                                 | 2910.41 cubic ft.<br>175.90 cubic ft.<br>8<br>4<br>2<br>37.60 ft.<br>19.42 ft.<br>730.11 square ft.<br>N/A. |
|   |  | Amount Of Stone Required:<br>Volume Of Excavation (Not Including<br>Fill):<br>Total Non-woven Geotextile Required<br>Woven Geotextile Required (excluding<br>Isolator Row):<br>Woven Geotextile Required (Isolator<br>Row):<br>Total Woven Geotextile Required:<br>Impervious Liner Required: | 298 square yards<br>g22 square yards  |
|   |  |   | ÷   |

# **STORMWATER PLAN**



#### 1 NEW STORM STRUCTURE 2 NEW 6" STORM SEWER 3 CONNECT TO EX. CATCH BASIN



#### Flood Protection Volume: 10-yr 400 PENNSYLVANIA AVE te Area (acres) 0.00 , 24-Hour Rainfall: 3.56 4elopment Condition Area Q Runoff Runoff Volume Area ŰTPL CN /er Type/Soil Type (sf) (ac) (in) (ft<sup>3</sup>) ype B) 8,712 0.20 58 7.2 0.48 346 ous Cover (sidewalk) 784 0.02 91 1.0 2.60 170 0.00 0 0 0 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0.00 9,496 0.22 N/A N/A N/A 516 velopment Conditions Q Runoff Runoff Volume Area Area /er Type/Soil Type CN S (sf) (ac) (in) (ft<sup>3</sup>) 1,292 ous Cover (pavement) 4,661 0.11 98 0.2 3.33 0.05 ype B) 2,352 58 7.2 0.48 93 ous Cover (rooftop) 2,483 0.06 98 0.2 3.33 688 0.00 0 0 0 0 0 0.00 0 0.00 0 0 0 2,074 9,496 0.22 N/A N/A N/A V<sub>10</sub> Runoff Volume Increase (ft<sup>3</sup>) = 1,558 0.06 -0-year peak detention pond discharge (cfs) = Flood Protection Volume: 100-yr X 400 PENNSYLVANIA AVE e Area (acres): 0.00 r, 24-Hour Rainfall: 5.71 elopment Condition Q Runoff Runoff Volume Area Area CN /er Type/Soil Type S (ft<sup>3</sup>) (ac) (in) (sf) 8,712 0.20 58 7.2 1.58 1,146 wn (Type B) 784 0.02 91 us Cover (sidewalk) 1.0 4.67 305 0 0 0.00 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0.00 0 9,496 0.22 N/A N/A N/A 1,452 elopment Conditions Q Runoff Runoff Volume Area Area ∕er Type/Soil Type CN (in) (sf) (ac) (ft<sup>3</sup>) ous Cover (pavement) 4,661 0.11 98 0.2 5.47 2,125 × — ×—×X ×—× 2,352 0.05 58 7.2 1.58 309 /pe B) 2,483 0.06 98 0.2 5.47 1,132 ous Cover (rooftop) 0.00 0 0 0 0.00 0 0 0 0.00 0 9,496 0.22 N/A N/A N/A 3,567 TOTAL V<sub>100</sub> Runoff Volume Increase (ft<sup>3</sup>) = 2,116 100-year peak detention pond discharge (cfs) = 0.21 Flood Protection Volume: 25-yr 400 PENNSYLVANIA AVE Area (acres): 0.00 25-Year, 24-Hour Rainfall: 4.33 <sup>E</sup> Pre-d೮ೆಕ್ತಿslopment Condition Q Runoff Runoff Volume Area CN r Type/Soil Type S (in) $(ft^3)$ (ac) 8,712 0.20 58 7.2 0.82 596 pe B) us Cover (sidewalk) 784 0.02 91 1.0 3.33 218 0 0.00 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0.00 0 9,496 0.22 N/A N/A N/A 813 elopment Conditio Q Runoff Runoff Volume Area Area CN S er Type/Soil Type (in) (ft<sup>3</sup>) (sf) (ac) 98 0.2 4.09 - <sup>8</sup>"-----us Cover (pavement) 4,661 0.11 1,590 7.2 0.82 2,352 0.05 58 161 \_\_\_\_\_pe B) 0.2 4.09 847 2,483 0.06 98 Impervious Cover (rooftop) 0 0.00 0 0 0 0.00 0 0 0 0.00 $\Delta \Delta$ 9,496 0.22 N/A N/A N/A 2,598

V<sub>25</sub> Runoff Volume Increase (ft<sup>3</sup>) =

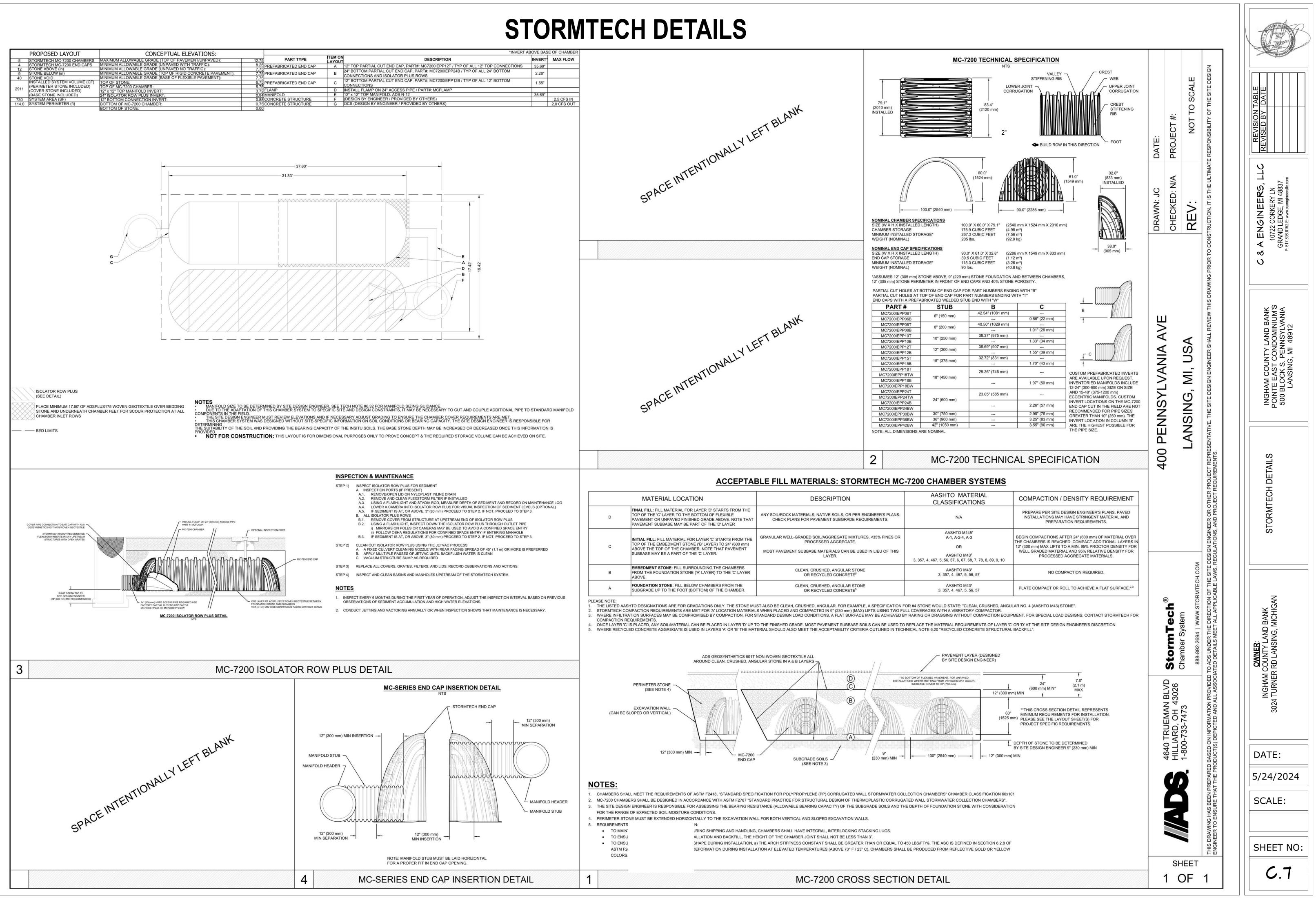
0.1

1,785

25-year peak detention pond discharge (cfs) =

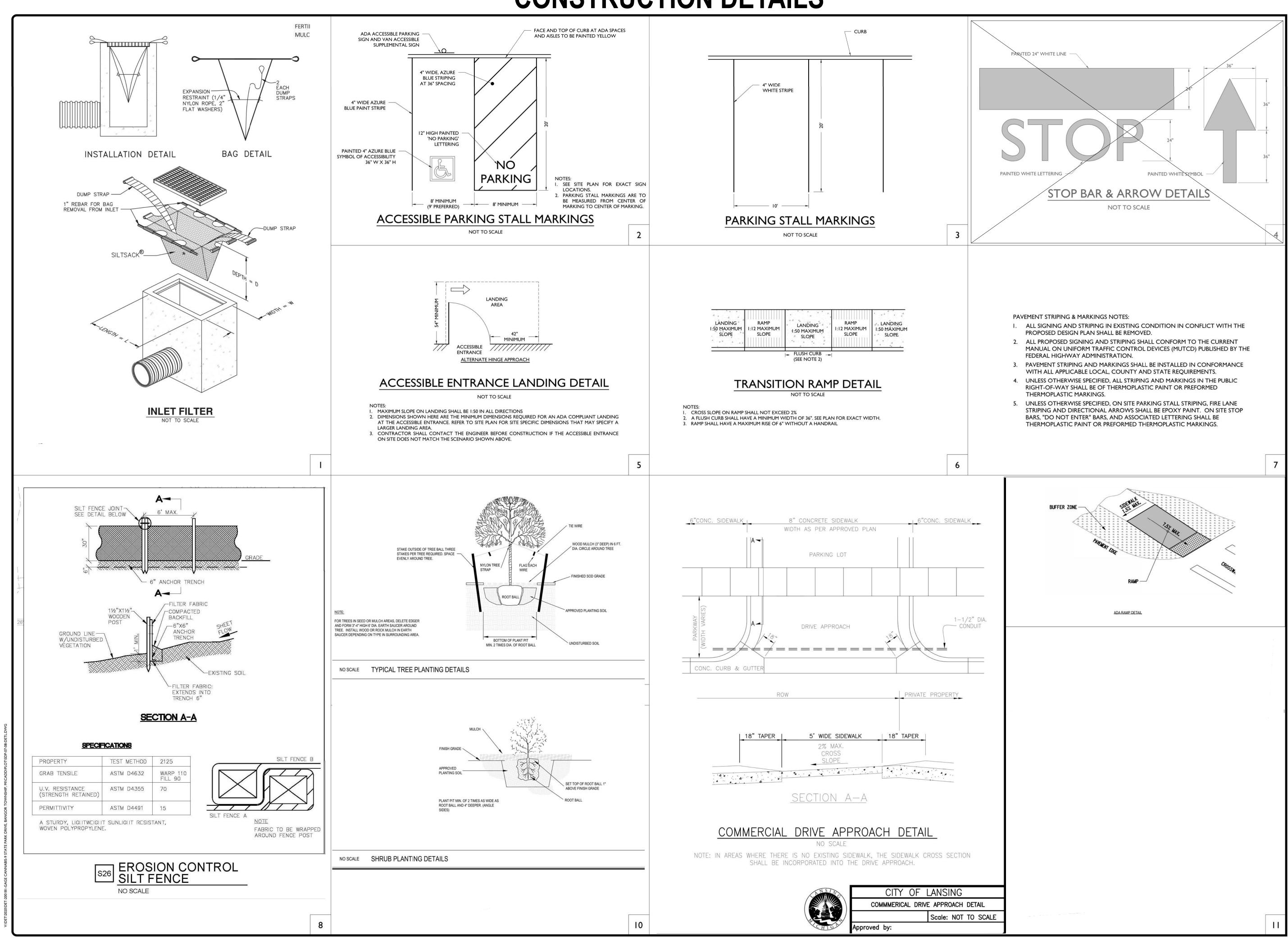
0.11

RE  $\mathbf{O}$ ш⋩ѯ ENGINEB 10722 CORKEF AND LEDGE, M 389.8152 E: www.caen Š S INGHAM COUNTY LAND BANK POINTE EAST CONDOMINIUM'S 500 BLOCK S. PENNSYLVANIA LANSING, MI 48912 Z Δ Ŷ STORMW OWNER: NGHAM COUNTY LAND BANK TURNER RD LANSING, MICHIG DATE: 5/24/2024 SCALE: 1" = 20' SHEET NO: C.6



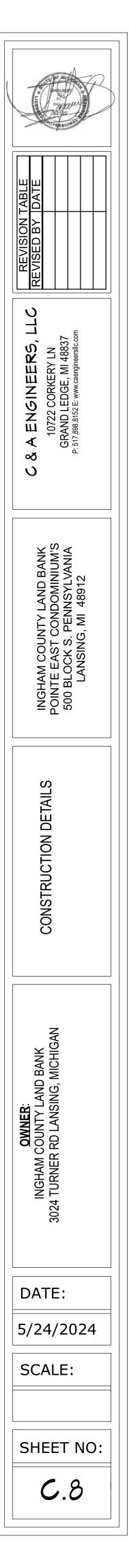
| INVERT /   | *INVERT ABOVE BASE OF CHAN |             |  |  |  |
|--|----------------------------|-------------|--|--|--|
| DESCRIPTION  | INVERT*                    | MAX FLOW    |  |  |  |
| ART#: MC7200IEPP12T / TYP OF ALL 12" TOP CONNECTIONS       | 35.69"                     |             |  |  |  |
| P, PART#: MC7200IEPP24B / TYP OF ALL 24" BOTTOM<br>JS ROWS | 2.26"                      |             |  |  |  |
| P, PART#: MC7200IEPP12B / TYP OF ALL 12" BOTTOM            | 1.55"                      |             |  |  |  |
| PE / PART#: MCFLAMP  |                            |             |  |  |  |
|  | 35.69"                     |             |  |  |  |
| D BY OTHERS)   |                            | 2.5 CFS IN  |  |  |  |
| VIDED BY OTHERS)   |                            | 2.0 CFS OUT |  |  |  |

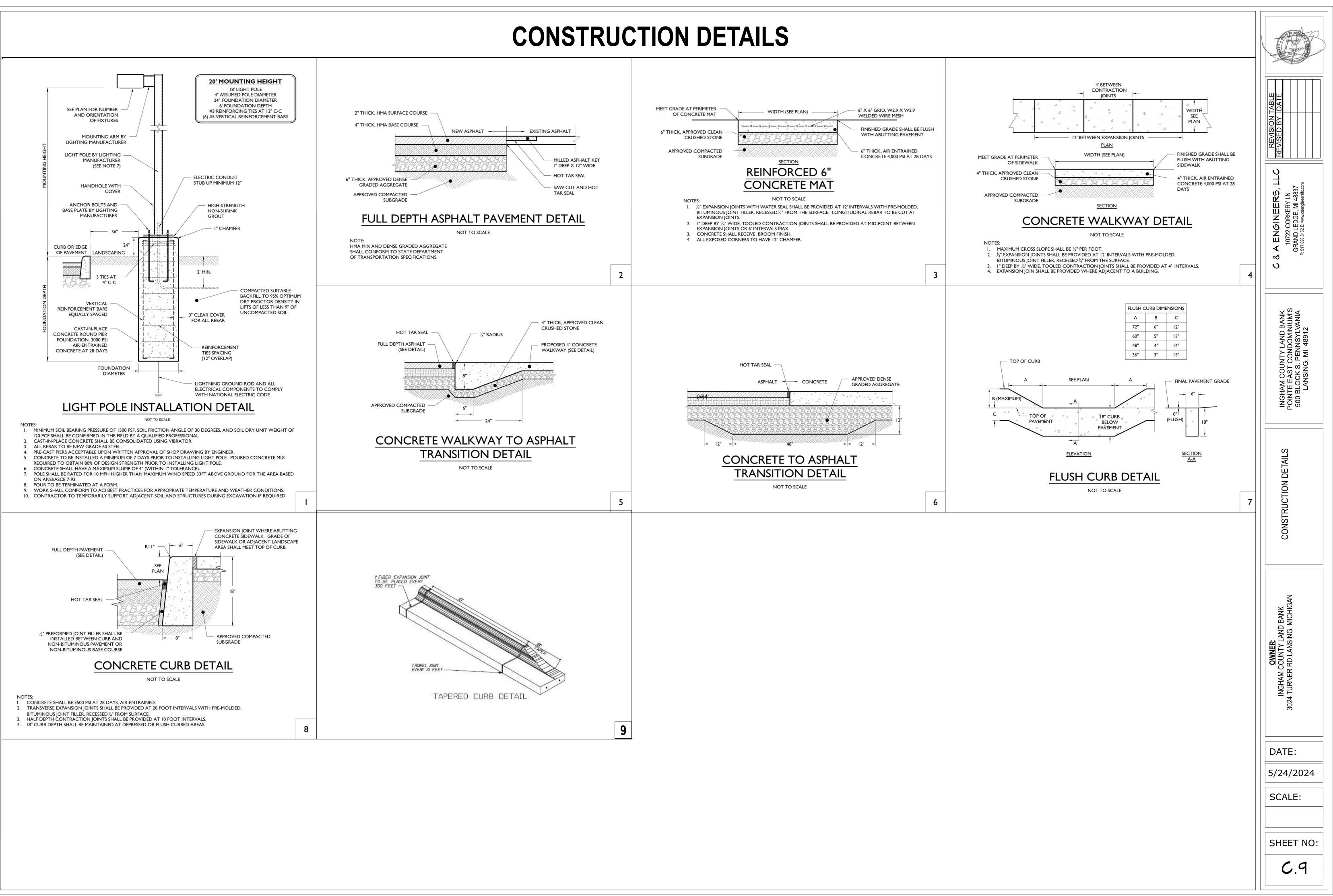
|   | MATERIAL LOCATION  | DESCRIPTION   |
|---|--|---|
| D | FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE<br>TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE<br>PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT<br>PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER  | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PL<br>CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.  |
| С | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE<br>TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm)<br>ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT<br>SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINE<br>PROCESSED AGGREGATE.<br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF "<br>LAYER. |
| В | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS<br>FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER<br>ABOVE.   | CLEAN, CRUSHED, ANGULAR STONE<br>OR RECYCLED CONCRETE⁵  |
| А | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.  | CLEAN, CRUSHED, ANGULAR STONE<br>OR RECYCLED CONCRETE <sup>5</sup>  |



# **CONSTRUCTION DETAILS**

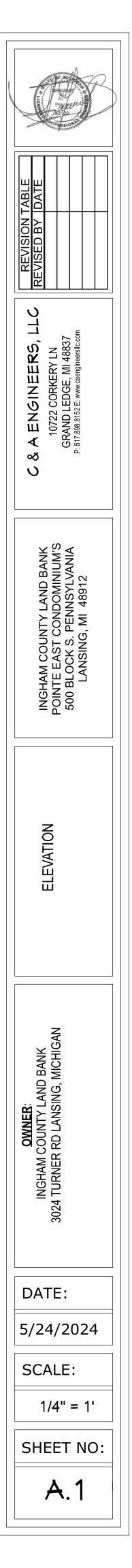
|                  |  | 7 |
|------------------|--|---|
|                  | BUFFER ZONE<br>SIDE NULL<br>PANELON EDIC<br>RAMP |   |
| ." DIA.<br>DUIT  | ADA RAMP DETAIL                                  |   |
| DOT              |  |   |
|                  |  |   |
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| etail<br>O scale |  |   |
|                  |  | П |
|                  |  |   |

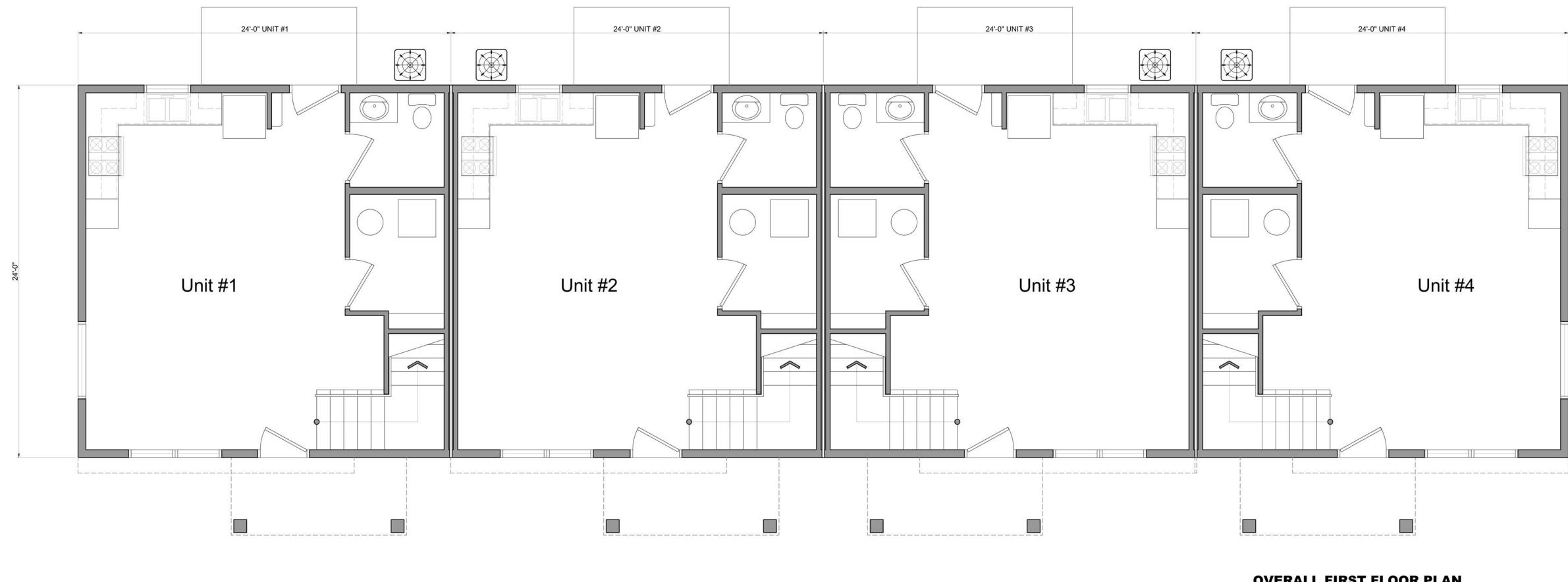


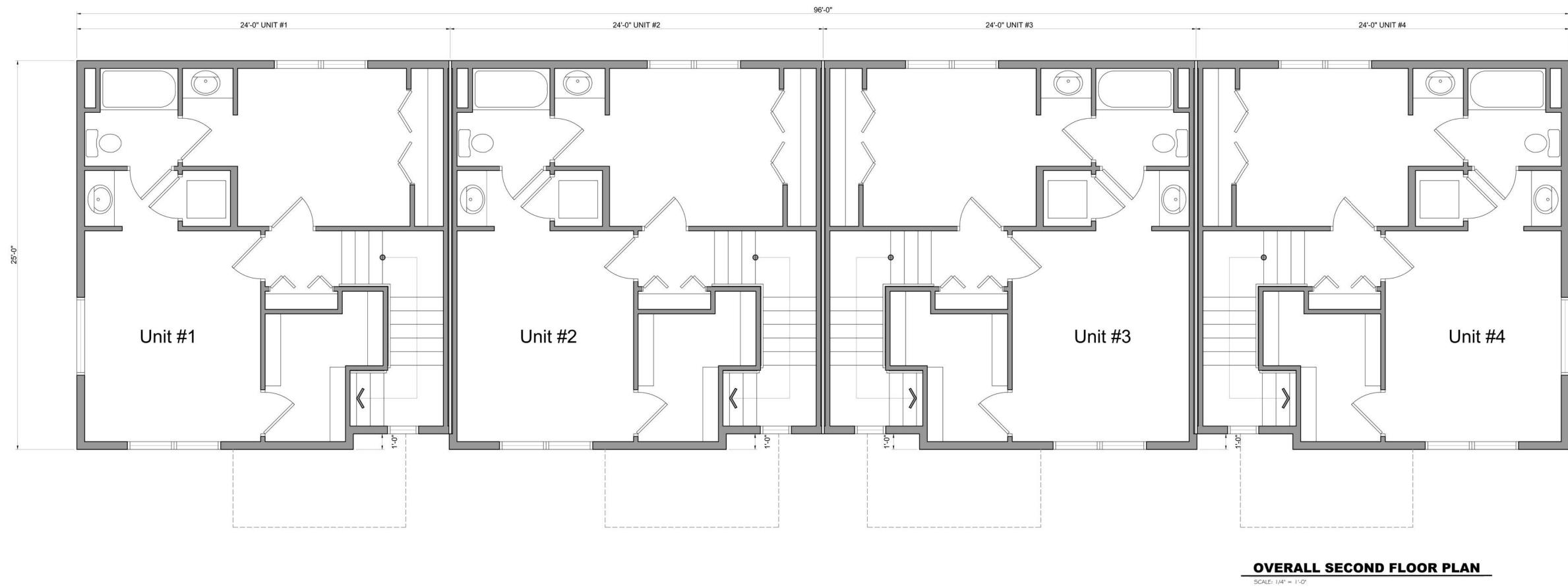




# ELEVATION







# **FLOOR PLAN**

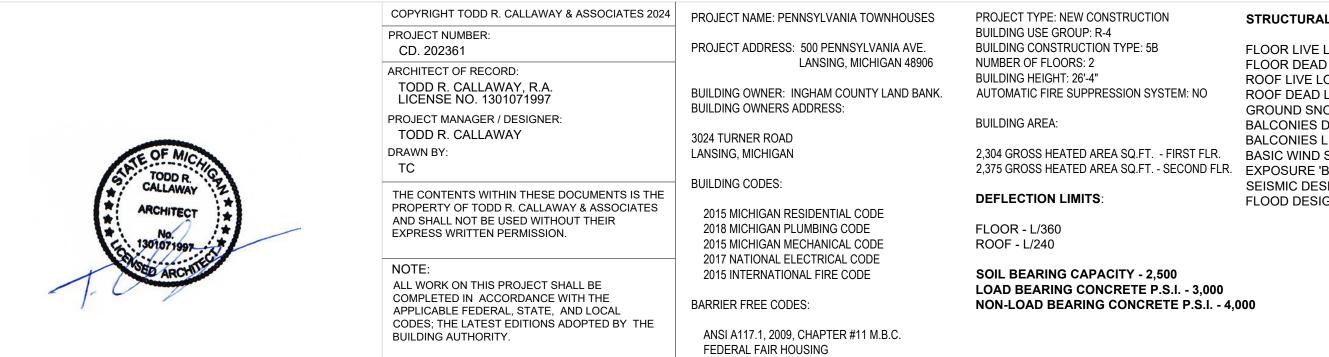


# SCALE: 1/4" = 1'-0"

| Contraction of the second seco |
|--|
| REVISION TABLE<br>REVISED BY DATE  |
| <b>C &amp; A ENGINEERS, LLC</b><br>10722 CORKERY LN<br>GRAND LEDGE, MI 48837<br>P: 517.898.8152 E: www.caengineersllc.com  |
| INGHAM COUNTY LAND BANK<br>POINTE EAST CONDOMINIUM'S<br>500 BLOCK S. PENNSYLVANIA<br>LANSING, MI 48912   |
| FLOOR PLAN   |
| <b>OWNER:</b><br>INGHAM COUNTY LAND BANK<br>3024 TURNER RD LANSING, MICHIGAN   |
| DATE:<br>5/24/2024   |
| SCALE:<br>1/8" = 1'  |
| SHEET NO:<br>A.2   |

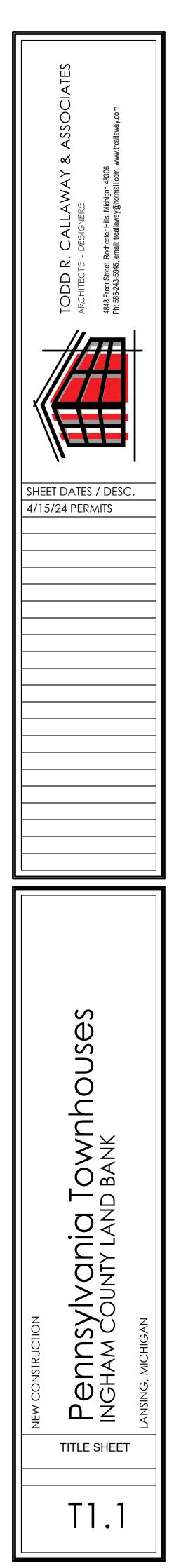
|   |                            | NS AND SY  |  |
|---|----------------------------|--|--|
| ABOVE FINISHED FLOOR<br>ACCESS DOOR<br>ACCESS PANEL                   | A.F.F<br>A.D.<br>A.P.      | OFFICE<br>ON CENTER<br>OPENING<br>OPPOSITE<br>OPPOSITE HAND<br>OUTSIDE DIAMETER<br>OVER HEAD<br>PAINTED<br>PAIR<br>PAPER TOWEL DISPENSER<br>PAPER TOWEL RECEPTACLE<br>PARTITION<br>PAVEMENT<br>PAVING<br>PENT HOUSE<br>PERFORATED<br>PERIMETER<br>PHYSICALLY HANDICAPPED<br>PIECES<br>PLASTER<br>PLASTER<br>PLASTE<br>PLATE<br>PLATE<br>PLATE  | OFF.<br>O.C.<br>OPN'G  |
| ACOUSTIC, ACOUSTICAL<br>ACOUSTIC CEILING TILE<br>ADDITION             | ACOUS.<br>A.C.T.<br>ADD'N  | OPPOSITE<br>OPPOSITE HAND<br>OUTSIDE DIAMETER  | OPP.<br>O.H.<br>O.D.   |
| ADJUSTABLE<br>ALTERNATE   | ADJ.<br>ALT.               |  | 0.H.<br>PT'D   |
| ANCHOR, ANCHORABLE  | ANCH.<br>A.B.              | PAIR<br>PAPER TOWEL DISPENSER  | PR<br>P.T.   |
| AND<br>ANGLE<br>ANODIZED  | α<br>L<br>ANOD.            | PAPER TOWEL RECEPTACLE<br>PARTITION<br>PAVEMENT  | P.T.R.<br>PART'N<br>PVM'T  |
|   | APPR.<br>APPROX.<br>ARCH   | PAVING<br>PENT HOUSE<br>PERFORATED   | PV'G<br>PENTHSE<br>PERF.   |
|   | AUTO.<br>ASPH.             | PERIMETER<br>PHYSICALLY HANDICAPPED<br>DIFCS   | PERF.<br>PERIM.<br>P.H.<br>PC'S                                      |
| ASSISTANT<br>AT   | ASS'T.                     | PLECES<br>PLASTER<br>PLASTIC LAMINATE  | PC'S<br>PLAS.<br>PL.LAM.   |
| AUXILIARY<br>BARRIER FREE   | AUX.<br>B.F.               | PLATE<br>PLYWOOD<br>POINT<br>POINTS  | PL.<br>PLY'WD<br>PT  |
| BASE PLATE  | B.PL.<br>BENCH<br>B.M.     | PLYWOOD<br>POINT<br>POINTS<br>POLISH/POLISHED<br>POLYVINYL CHLORIDE<br>POUNDS<br>POUNDS PER SQUARE FOOT<br>POWER<br>PRECAST<br>PREFABRICATED<br>PRESSURE TREATED<br>PROJECT, PROJECTION<br>PROPERTY  | PT'S<br>POL.<br>PVC  |
| EARING<br>BENCH MARK  | BR'G.<br>B.MK.             | POUNDS<br>POUNDS<br>POUNDS PER SQUARE FOOT   | LBS.<br>P.S.F.   |
| se i ween<br>Bituminous<br>Block                                      | BET.<br>BITUM.<br>BL'K.    | POWER<br>PRECAST<br>PREFABRICATED  | PWR<br>P.C.<br>PREFAB.   |
| SLOCK<br>SLOCKING<br>SOARD<br>SOTTOM<br>SULLDING<br>DUILT LUD DOOFING | BLK'G.<br>BD.<br>BOTT      | PRESSURE TREATED<br>PROJECT, PROJECTION  | P.T.<br>PROJ.  |
| BUILDING<br>BUILT-UP ROOFING  | BOTT.<br>BLD'G.<br>B.U.R.  | PROPERTY<br>QUARRY TILE  | PROP.<br>Q.T.  |
| CABINET<br>CARPET<br>CAST IN PLACE                                    | CAB.<br>CPT.<br>C.I.P.     | QUARRY TILE<br>RAIN CONDUCTOR<br>RADIUS<br>REFERENCE<br>REFLECTED/REFLECTIVE<br>REFRIGERATE<br>REINFORCE<br>REQUIRED<br>RESILIENT<br>REVISED/REVISION<br>RIGHT HAND<br>RIGHT HAND<br>RIGHT OF WAY<br>RISER<br>ROOF SUMP<br>ROOF SUMP<br>ROOF SUMP  | R.C.<br>RAD.   |
| AST IN PLACE<br>ATCH BASIN<br>EILING                                  | C.B.<br>CL'G.              | REFERENCE<br>REFLECTED/REFLECTIVE  | REF.<br>REFL   |
| EILING<br>ENTER LINE<br>ENTER TO CENTER<br>ERAMIC                     | c.l.<br>C/C<br>CER.        | REFRIGERATE<br>REINFORCE<br>REQUIRED   | REFRIG.<br>REINF.<br>REQ'D   |
| ERAMIC<br>ERAMIC TILE<br>CHALK BOARD<br>CHECKERED PLATE               | C.T.<br>CHALK BD.          | RESILIENT<br>REVISED/REVISION<br>RIGHT HAND  | RESIL.<br>REV.<br>R.H.   |
| CHECKERED PLATE<br>CLOSET<br>COLD WATER                               | CHKD PL.<br>CLO.<br>C W    | RIGHT HAND<br>RIGHT HAND REVERSE<br>RIGHT OF WAY   | к.п.<br>R.H.R.<br>R.O.W.   |
| COLUMN<br>COLUMN<br>COMPACTED<br>CONCRETE                             | COL.<br>COMP.              | RISER<br>ROOF SUMP<br>ROOFING  | R.<br>R.S.<br>RF'G   |
| ONCRETE MASONRY UNIT  | C.M.U.                     | ROOM   | RM.  |
| CONNECT, CONNECTION<br>CONSTRUCTION<br>CONTROL OR CONST. JOINT        | CONN.<br>CONST.<br>CJ      | RUBBER TILE  | RND.<br>R.T.   |
|   | CONT.<br>CONTR.            | SANITARY<br>SAN. NAPKIN DISPENSER<br>SAN. NAPKIN DISPOSAL  | SAN.<br>S.N.D.<br>S.N.DISP   |
| COUNTER   | CORR.<br>CT'R.             | SCHEDULE<br>SCHEDULE<br>SHOWER CURTAIN   | SCHED.   |
| DAMPPROOFING<br>DEAD LOAD<br>DEMOLITION                               | D.P.<br>D.L.<br>DEMO.      | SECTION<br>SERVICE SINK<br>SHEET   | SECT.<br>S.S.<br>SHT.  |
|   | DEPT.<br>DET.              | ROUGH OPENING<br>ROUND<br>RUBBER TILE<br>SANITARY<br>SAN. NAPKIN DISPENSER<br>SAN. NAPKIN DISPENSER<br>SAN. NAPKIN DISPOSAL<br>SCHEDULE<br>SHOWER CURTAIN<br>SECTION<br>SERVICE SINK<br>SHET<br>SHEET METAL<br>SHEET<br>SHEET METAL<br>SHELVING<br>SHOWER<br>SIMILAR<br>SOAP DISPENSER<br>SOUTH<br>SPEAKER<br>SPECIFICATIONS<br>SQUARE<br>SQUARE FOOT (FEET)<br>STAINLESS STEEL<br>STORAGE<br>STREET<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTURAL<br>STRUCTUR | SHT.MTL.<br>SHLV'G   |
| DIAMETER<br>DIFFUSER<br>DIMENSION                                     | DIA.<br>DIFF.<br>DIM.      | SHUWER<br>SIMILAR<br>SOAP DISPENSER  | SHWK<br>SIM.<br>S.DISP.  |
| DIRECTORY   | DIR.<br>DO.<br>DP          | SOUTH<br>SPEAKER<br>SPECIFICATIONS   | S<br>SPK'R<br>SPFC   |
| DOOR OPENING<br>DOUBLE  | DR.<br>D.O.<br>DB'L        | SQUARE<br>SQUARE<br>SQUARE   | SQ.<br>S.F.  |
| )OWN<br>)OWNSPOUTS<br>)OWELS  | DN<br>D.S.<br>DWLS         | STAINLESS STEEL<br>STANDARD<br>STEEL   | ST.STL.<br>ST'D<br>ST'L  |
| DRAWING<br>DRINKING FOUNTAIN  | DWG<br>D.F.                | STORAGE<br>STREET<br>STRUCTURAL  | STOR.<br>ST.   |
| ACH<br>ACH FACE   | EA.<br>E.F.                | STRUCTURAL<br>STRUCTURAL STEEL<br>ST.ST'L CONTRACTOR   | STRUCT.<br>ST.ST'L.<br>S.S.C.  |
| ACH WAY<br>LASTO WATER PROOFING                                       | E.W.<br>ELAST.W.P.         | SURFACE<br>SUSPEND/SUSPENSION  | SURF.<br>SUSP.   |
| LECTRIC, ELECTRICAL<br>LECTRICAL PANEL<br>LECTRIC WATER COOLER        | ELEU.<br>E.P.<br>EWC       | TACK BOARD<br>TELEPHONE  | TACK BD.<br>TEL.   |
| LEVATION (HEIGHT LEVEL)<br>ELEVATOR<br>ELIMINATE                      | EL.<br>ELEV.<br>ELIM.      | ILMPERATURE<br>TEMPERED GLASS<br>THRESHOLD   | ILMP.<br>TEMP.GL.<br>THRES.  |
|   | EMERG.<br>ENAM.            | TOILET<br>TOILET PAPER DISPENSER<br>TONGUE AND GROOVE  | TLT.<br>T.P.<br>T&G  |
|   | ENUL.<br>ENVIR.<br>EQ.     | TOP & BOTTOM<br>TOP OF FOOTING   | T&P<br>T.O.F.  |
| QUIPMENT<br>EXCAVATED<br>EXISTING                                     | EQUIP.<br>EXC.<br>EXIST    | IUP OF MASONRY<br>TOP OF COVER ON CURB<br>TOP OF STEEL   | 1.0.M.<br>T.O.C.<br>T.O.S.   |
| XPANSION<br>XPANSION BOLT   | EXP.<br>EXP.B.             | TOP OF WALL<br>TOTAL LOAD  | T.O.W.<br>T.L.   |
| XPANSION JOINT<br>XTERIOR   | E.J.<br>EXT.               | IKEAD<br>TYPICAL   | ı.<br>TYP.   |
| ABRIC<br>TEET, FOOT   | FAB.<br>FT.                | URINAL<br>UNLESS NOTED OTHERWISE<br>VENT THRU ROOF<br>VERTICAL VERTICALLY  | URIN.<br>U.N.O.  |
| TRE ALARM   | F.A.                       | VERTICAL, VERTICALLY   | VERT.  |
| TRE EXTINGUISHER CABINET  | F.E.C.<br>F.H.             | VESTIBULE<br>VINYL COMPOSITION TILE<br>VINYL TILE  | VEST.<br>V.C.T.<br>V.T.  |
| IRE HOSE CABINET<br>IRE VALVE CABINET<br>IRE PROOFING                 | F.H.C.<br>F.V.C<br>F.P.    | VINYL TILE<br>VINYL WALL COVERING<br>VOLT  | v. 1.<br>v.w.c.<br>v.  |
| TXTURE<br>TLASHING<br>TLOOR   | FIXT.<br>FLASH.<br>FL'R.   | WATER RESISTANT<br>WATER PROOFING  | W.R.<br>W.P.   |
| LOOR DRAIN<br>TOOTING   | F.D.<br>FT'G               | WATER CLOSET<br>WELDED WIRE FABRIC<br>WINDOW   | WC.<br>W.W.F.<br>WIN   |
| OUNDATION<br>RAME<br>URNISH, FURNISHED                                | FD'N<br>FR.<br>FURN.       | WINDOW CONTRACTOR<br>WINDOW OPENING  | WIN.CONTR.<br>W.O.   |
| URRED, FURRING  | FURR.                      | WELDED WIRE MESH<br>WIRE MESH<br>WITH  | W.W.M.<br>W.M.<br>W/   |
| GRAB BAR<br>GALVANIZED  | GB.<br>GALV.               | WITHOUT<br>WOMEN   | Ŵ/O<br>WOM   |
| SALVANIZED IRON<br>SENERAL<br>SENERAL CONTRACTOR                      | G.I.<br>GEN.<br>G.C.       | WOOD<br>YARD   | WD.<br>YD.   |
| GLASS<br>GRADE  | GL.<br>GR.                 | 4  |  |
| SYPSUM<br>IARDWARE  | GYP.<br>HDWR.              | 3 AXXX 1 INTERIOR EL   | EVATION TAG  |
| IANDICAP<br>IEAT/VENT/AIR CONDITION<br>IEIGHT                         | H.C.<br>HVAC<br>HG'T       |  | TIFICATION TAG   |
| IIGH POINT<br>OWEL HOOK   | Н.Р.<br>НК.                | 102 REFER TO   | DOOR SCHEDULE  |
| IOLLOW METAL<br>IORIZONTAL/HORIZONTALLY<br>IOSE BIB                   | H.M.<br>HORIZ.<br>H.B.     | WALL TYPE  |  |
| IOT WATER<br>IOT WATER HEATER   | НW<br>Н.W.Н.               | A REFER TO   | OTES IDENTIFICATION TAG<br>PROJECT NOTE SCHEDULE<br>FIC INFORMATION. |
| IYDRANT<br>NCH_OR_INCHES  | hyd.<br>In. or "           | INTERIOR W   | INDOW IDENTIFICATION TAG   |
| NFORMATION<br>NSIDE DIAMETER<br>NSTALL, INSTALLATION                  | INFO.<br>I.D.<br>INSTAL.   | W2 REFER TO<br>DETAIL DRA  | MNDOW SCHEDULE OR<br>NMNG  |
| NSULATE, INSULATION<br>NTERIOR  | INSUL.<br>INT.             |  | IDENTIFACTION TAG<br>EQUIPMENT SCHEDULE                              |
| NVERT<br>NVERT ELEVATION  | INV.<br>I.E.               | $\sim$   |  |
| IOINT<br>KICK PLATE   | јт<br>к.р.                 |  | ADDENDUM BUBBLE  |
| NOCK OUT PANEL  | K.O.P.                     | A-A A-A  |  |
| .AMINATE/LAMINATED<br>.AVATORY<br>.EFT HAND REVERSE                   | LAM.<br>LAV. =<br>L.H.R.   | SHEET A-3 SHEET A-3  | BUILDING SECTION<br>MARKER   |
| .IGHT<br>.IGHTING   | LT.<br>LT'G                | DRAWING NUMBER   |  |
| JGHTING PANEL<br>JGHTWEIGHT<br>JVE LOAD                               | L.P.<br>LT'WT (<br>L.L. (- |  | WALL SECTION /   |
| ONG LEG HORIZONTAL<br>ONG LEG VERTICAL<br>OUVER OPENING               | L.L.H.<br>L.L.V.<br>L.O.   |  | DETAIL MARKER  |
| OW POINT  | L.P.                       |  |  |
| AACHINE<br>AANHOLE<br>AARBLE THRESHOLD                                | MACH.<br>MH<br>M.T.        | VCT1 X CPT2  | MATERIAL CHANGE  |
| IASONRY<br>IASONRY OPENING  | MAS.<br>M.O.               |  |  |
| AATERIAL<br>AAXIMUM<br>AECHANICAL                                     | MAT'L<br>MAX.<br>MECH.     | Ψ  |  |
| IEDIUM<br>IETAL OR METALLIC   | MED.<br>MET.               |  | COLUMN OR BEAM   |
| IETAL EDGE STRIP<br>IEZZANINE<br>IINIMUM                              | M.E.S.<br>MEZZ.<br>MIN.    |  | CENTER LINE  |
| /IRROR<br>/ISCELLANEOUS   | MIR.<br>MISC.              | $\mathbf{L}$   |  |
| AISC. IRON CONTRACTOR<br>AOUNTED<br>AULLION                           | M.I.C.<br>MT'D<br>MULL.    |  | - DRAWING NUMBER   |
| IATURAL<br>IOMINAL  | NAT.                       | $\left(\begin{array}{c} 4\\ \overline{A-3} \end{array}\right)$   |  |
| IOMINAL<br>IORTH<br>IOT IN CONTRACT                                   | NOM.<br>N<br>N.I.C.        |  | - SHEET NUMBER   |
|   | N.T.S.                     | ( )  |  |
| IOT TO SCALE<br>IUMBER  | NO. OR #                   | DETAIL MARKE   | R  |

#### SITE PLAN



|   |  |                  | 13         |   |               |  |
|---|--|------------------|------------|---|---------------|--|
|   |  |                  | PERMITS    |   |               |  |
|   |  |                  | 4/15/24 1  |   |               |  |
| SHEET<br>NUMBER   | SHEET NAME   |                  | 4/1        |   |               |  |
| CS.1  | SITE COVER SHEET   |                  |            |   |               |  |
| CS.2  | EXISTING SITE LAYOUT                                     |                  |            |   |               |  |
| S.1   | SURVEY   |                  |            |   |               |  |
| C.1   | PROPOSED SITE PLAN                                       |                  |            |   |               |  |
| C.2<br>C.3  | SITE PARKING PLAN  | N                |            |   |               |  |
| C.3   | LANDSCAPE AND LIGHTING PLA<br>SESC / GRADING DRAINAGE PL |                  |            |   |               |  |
| C.5   | UTILITIES  |                  |            |   |               |  |
| C.6   | STORMWATER PLAN  |                  |            |   |               |  |
| C.7   | STORM TECH / DETAILS                                     |                  |            |   |               |  |
| C.8   | SITE CONSTRUCTION DETAILS                                |                  |            |   |               |  |
| C.9   | SITE CONSTRUCTION DETAILS                                |                  |            |   |               |  |
| A.1<br>A.2  | SITE FLOOR PLANS<br>SITE ELEVATIONS                      |                  |            |   |               |  |
| , \.2   |  |                  |            |   |               |  |
| T1.1  | TITLE SHEET  |                  |            |   |               |  |
| C1.1  | GENERAL NOTES  |                  |            |   |               |  |
| C1.2  | WALL TYPES / SCHEDULES                                   |                  |            |   |               |  |
| A1.1  | FOUNDATION PLAN  |                  |            |   |               |  |
| A1.2  | OVERALL FLOOR PLANS                                      | N                |            |   |               |  |
| A1.3<br>A1.4  | UNIT FLOOR PLAN / POWER PLA<br>EXTERIOR ELEVATIONS       | NN .             |            |   |               |  |
| A1.4<br>A1.5  | WALL SECTIONS  |                  |            |   |               |  |
| A1.6  | ROOF PLANS / INTERIOR ELEVA                              | TIONS            |            |   |               |  |
| A1.7  | DETAILS  |                  |            |   |               |  |
| A1.8  | DETAILS  |                  |            |   |               |  |
| N1.1  | NOTES  |                  |            |   |               |  |
| D4 4  |  | <u></u>          |            |   |               |  |
| P1.1<br>P2.0  | PLUMBING NOTES AND DETAILS<br>PLUMBING FOUNDATION PLAN   |                  |            |   |               |  |
| P2.1  | PLUMBING FLOOR PLANS                                     |                  |            |   |               |  |
| M1.1  | MECHANICAL NOTES AND DETA                                | ILS              |            |   |               |  |
| M2.1  | MECHANICAL FLOOR PLANS                                   |                  |            |   |               |  |
| E1.1  | ELECTRICAL RISERS AND NOTE                               | S                |            |   |               |  |
| E2.1  | ELECTRICAL FLOOR PLANS                                   |                  |            |   |               |  |
| E3.1  | ELECTRICAL LIGHTING PLANS                                |                  |            |   |               |  |
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| 2.         REFER TO MEP AND LANDSCAPE DRAWINGS FOR EXTERIOR SITE LIGHTING.         11.00.           2.         REFER TO MEP AND LANDSCAPE DRAWINGS FOR EXCENDIST ELIGHTING.         11.00.           2.         REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR EXCENTION OF SIDEWALKS AND DETAILS.         7.           3.         NEVER ASSURE DIMENSION SO B SUP DRAWINGS FOR EXCENTION OF ADDITION OF WORK.         7.           3.         NEVER ASSURE DIMENSION ELISTED WITH THE SOCIE. THE ADDITION OF WORK.         7.           3.         ALL STANDE WORD SHALL HAVE ONE COLOR OF STAN AND TWO COATS OF WARREN THE PORTICIN OF WORK.         7.           3.         ALL STANDE WORD SHALL HAVE ONE COLOR OF STAN AND TWO COATS OF WARREN THE INFORMATION.         7.           3.         NO TUSE SOCIESTIC ADDITION OF WORK.         8.           3.         ALL STANDE WORD SHALL HAVE ONE COLOR OF STAN AND TWO COATS OF WARREN THE INFORMATION.         7.           3.         DO NOT SCALE DRAWINGS ARE TO FACE OF STAU AND TWO COATS OF WARREN FEELINGT.         8.           3.         NO TUSE SOCIESTIC ADDITION OF WORK.         8.           3.         REFER TO CAUL DRAWINGS FOR COMENCIAL CONTROL PLAN AND ROUGH GRADING.         8.           3.         REFER TO CAUL DRAWINGS FOR CUBENSION ALL COATTONS.         8.           3.         REFER TO CAUL DRAWINGS FOR CUBENES OF TRANSFORMER LOCATIONS.         8.           3.  | E REQUIRED AND SHALI    |
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| 25.         NEVER ASSUME DIMENSIONS FOR SHOP DRAWINGS. IF: NO DIMENSION IS LISTED FOR A REQUIRED ITEM, CONSULT WITH THE ARCHITECT IMMEDIATELY. ITEMS THAT<br>REQUIRED ARCHITECTS SPECIAL ATTENTION SHULL BE LISTED WITHIN THE SHOPS. THE ARCHITECT AND OWNERS SHULL NO TS RESPONSIBLE FOR FIELD         78.         MINIMUM GUTTER SIZE TO BE<br>THE DO ISSUMPRED COMMAN           26.         ALL STANED WOOD SHALL HAVE ONE COAT OF STAN AND TWO COATS OF VARIASH. LIGHTLY SAND BETWEEN VARIASH APPLICATIONS.         80.         INSTALL BLOCKING IN BATH.<br>TO DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF STUD UN O.           27.         DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF STUD UN O.         81.         WHERE INDICATED. REQUIREMENTS.         80.         INSTALL BLOCKING IN BATH.<br>POR ATTACHMENT OF STAR.<br>ADDITIONAL           28.         REFER TO CIVIL DRAWINGS FOR DIMENSIONAL CONTROL PLAN AND ROUGH GRADING.         82.         FLASHING SHALL BE INSTALL<br>WALLS. CALL AND OLETAR.           30.         REFER TO CIVIL DRAWINGS FOR DIMENSIONAL CONTROL PLAN AND ROUGH GRADING.         83.         TOWEL BASK AND ALARDS AND THE<br>WALLS. CALL AND OLETAR.           31.         REFER TO CIVIL DRAWINGS FOR CUBRE OLIGITIONS.         83.         TOWEL BASK AND ALARDS AND THE<br>WALLS. CALL AND DELTAR.           32.         REFER TO CIVIL DRAWINGS FOR CUBRE OLIGITIONS.         83.         TOWEL BASK AND ALARDS AND THE<br>WALLS. CALL AND OLITAR.           33.         REFER TO CIVIL DRAWINGS FOR CUBRE OLIGITIONS.         83.         TOWEL BASK AND ALARDS AND THE<br>WALL PERK NET TO LIKE WALL BE FASK TO THANG PARA ELI   |                         |
| REQUIRED ARCHITECTS SPECIAL ATTENTION SHALL BELISTE WITHIN THE SHOPS. THE ARCHITECT AND OWNER SHALL NOT BE RESPONSIBLE FOR FIELD         17. EMINUAUA QUITTER VECT DOB           26. ALL STAINED WOOD SHALL HAVE ONE COAT OF STAIN AND TWO COATS OF VARNISH. LIGHTLY SAND BETWEEN VARNISH APPLICATIONS.         80. INSTAIL BL COCKNOL IN SATH<br>FOR ATTAODIMENT OF STAIR.           26. ALL STAINED WOOD SHALL HAVE ONE COAT OF STAIN AND TWO COATS OF VARNISH. LIGHTLY SAND BETWEEN VARNISH APPLICATIONS.         80. INSTAIL BL COCKNOL IN SATH<br>FOR ATTAODIMENT OF STAIR.           27. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF STUD U N 0.         81. WHERE MOLTARE DRAWINGS.           28. LOCATION OF MECHANICAL UNITS ARE APPROXIMATE. INSTALL PER MANUFACTURERS REQUIREMENTS.         81. WHERE MOLTARE DRAWING<br>WHERE MOLTARE DRAWINGS FOR DIMENSIONAL CONTROL PLAN AND ROUGH GRADING.           30. REFER TO OWIL DRAWINGS FOR FIRE HYDRANT LOCATIONS.         82. FLASHING SHALL BE LIST ALL<br>WALLS. CAULK AND MAREY           31. REFER TO OWIL DRAWINGS FOR CIRE HYDRANT LOCATIONS.         83. TOWEL BARG AND TOLET PAIL<br>WALLS. CAULK AND MAREY           32. REFER TO OWIL DRAWINGS FOR CIRE HYDRANT LOCATIONS.         84. PRE-ROCK ALL TRUS CAUT           33. REFER TO OWIL DRAWINGS FOR CIRE HYDRAWY REQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW<br>PRIOR TO ORDERING ANY REQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW         86. ALL DRIVE OWITS DOWNED AND TO BE AL TERROR OWITS HAVE BEENT WE THAN SERVICE)         86. ALL DRIVE OWITS DOWNED TO BE ALTERROR TWO TO SHALL BE PROTECTED FORM DAMAGE DIGNISTRUCTION. THE CONTRACTOR<br>INDUCATED IN THE CONTRACT TO ALL RE  |                         |
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| 30.       REFER TO CIVIL DRAWINGS FOR FIRE HYDRANT LOCATIONS.         31.       REFER TO CIVIL AND MEP AND LANDSCAPE DRAWINGS FOR TRANSFORMER LOCATIONS. (TO BE VERIFIED WITH LOCAL UTILITY SERVICE.)       83.       TOWEL BARS AND TOILET PA         32.       REFER TO CIVIL AND MEP AND LANDSCAPE DRAWINGS FOR TRANSFORMER LOCATIONS. (TO BE VERIFIED WITH LOCAL UTILITY SERVICE.)       84.       PRE-ROCK ALL TRUSS CAVIT         33.       REFER TO CIVIL DRAWINGS FOR CLOCATION OF ELECTRICAL AND GAS METERS.       85.       INSULATE ALL EXTERIOR WE         34.       CONTRACTOR TO VERIFY WITH ARCHITECT FOR ANY REQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW PRIOR ANY EQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW PRIOR ON CONSTRUCTION. THE CONTRACTOR ANY EQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS CONSTRUCTION, EQUIPMENT OR IMPROVEMENTS NOT SHOULD SHALL BEPORE TO EXISTING CONDITION, ANY DAMAGE TO EXISTING CONSTRUCTION, EQUIPMENT OR IMPROVEMENTS NOT NOT TO THE OUTSIDE AND SHALL REPAIR. TO EXISTING CONDITION, ANY DAMAGE TO EXISTING CONDITION, THE CONTRACTOR SHALL BEPORE FOR AND SHALL REPAIR. TO EXISTING CONDITION, ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES, PPIPING, CONDUCTS HAVE BEEN USED IN PREPARING THE CONTRACT DO CUMENTS TO ESTABLISH MINIMUM QUALITES.       90.       IF NO WINDOWS AND ADD ALL OR PART OF THE STELEMENT SEGSTIVE TEMANT SEASTING ECONSTRUCTION, EQUIPMENT OR IMPROVEMENTS.       90.       IF NO WINDOWS AND ADD ALL OR PART OF THE ACCOUNTS.       90.       IF NO WINDOWS AND ADD ALL OR PART OF THE STELEMENT SEGSTIVE TEMANT SE  |                         |
| 31.       REFER TO CIVIL AND MEP AND LANDSCAPE DRAWINGS FOR TRANSFORMER LOCATIONS. (TO BE VERIFIED WITH LOCAL UTILITY SERVICE.)       83.       TOWEL BARS AND TOILET PA         32.       REFER TO CIVIL DRAWINGS FOR CURB CUTS.       84.       PRE-ROCK ALL TRUSS CAVT         33.       REFER TO CIVIL DRAWINGS FOR CURB CUTS.       85.       INSULATE ALL EXTERIOR WE         34.       CONTRACTOR TO VERIFY WITH ARCHITECT FOR ANY REQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR REVEW       86.       ALL DRYER VENT HOOLUD TO TO TO TO REDRIVENT.         35.       ALL EXISTING WORK OR LANDSCAPING NOT SHOWN TO BE ALTERED OR REMOVED SHALL BE POTECTED FROM DAMAGE TO EXISTING CONSTRUCTION. THE CONTRACTOR SHALL BEPAR THE TOTAL EXPENSE FOR AND SHALL REPAIR. TO EXISTING CONDITION, ANY DAMAGE TO EXISTING CONSTRUCTION. THE CONTRACTOR BIOLOXING AND SHALL REPAIR. TO EXISTING CONDITION, ANY DAMAGE TO EXISTING CONSTRUCTION, EQUIPMENT OR IMPROVEMENTS NOT INDICATED IN THE DRAWINGS OR SPECIFICATIONS TO RECEIVE ALTERATIONS, ADDITIONS OR REMOVAL.       87.         36.       THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE FOR, AND SHALL REPAIR TO EXISTING CONDITION, ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES.       90.       IF MONIDON'S PART OF THE STEPPROVED OSERVATION         37.       SPECIFIED PRODUCTS HAVE BEEN USED IN PREPARING THE CONTRACT DOCUMENTS TO ESTABLISH MINIMUM OUALITIES.       91.       IF MONIDON'S PART OF THE ATT REQUIRED RATINGS FOR FREESISTIVE TENNIT SEPARATION WALLS, FLOORCELLING ASSEMBLIES. IN ACCORDANCE WITH THE LATEST EDITION OF THE GOVERNING CODE AND LOCAL CODES.       91.       IN OCMBUSTIBLE CONSTRUCTION   |                         |
| 32.       REFER TO CIVIL DRAWINGS FOR CURB CUTS.       84.       PRE-RCCK ALL TRUSS CAVIT         33.       REFER TO MEP DRAWINGS FOR LOCATION OF ELECTRICAL AND GAS METERS.       85.       INSULATE ALL EXTERIOR WE         34.       CONTRACTOR TO VERIFY WITH ARCHITECT FOR ANY REQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW       86.       ALL DRYER VENT HOOKUP TO TO THE ORIGINA MY EQUIRED CHASE AREAS NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW       87.       PROVIDE SOLID BLOCKING AN         35.       ALL EXISTING WORK OR LANDSCAPING NOT SHOWN TO BE ALTERED OR REMOVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL BEPAR, TO EXISTING CONDITION, ANY DAMAGE TO EXISTING CONSTRUCTION, THE CONTRACTOR SHALL BEPAR TO EXISTING CONDITION, ANY DAMAGE TO EXISTING CONSTRUCTION, THE DRAWINGS OR SPECIFICATIONS TO RECEIVE ALTERATIONS, ADDITIONS OR REMOVAL.       87.       PROVIDE SOLID BLOCKING AI         36.       THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE FOR, AND SHALL REPAIR TO EXISTING CONDITION, ANY DAMAGE TO EXISTING UNDERGROUND UTILITES, PIPING, CONDUCT SHALL BEAR THE TOTAL EXPENSE FOR, AND SHALL REPAIR TO EXISTING CONDITION, ANY DAMAGE TO EXISTING UNDERGROUND UTILITES, PIPING, CONDUCT SHAVE BEEN USED IN PREPARING THE CONTRACT DOCUMENTS TO ESTABLISH MINIMUM QUALITIES.       90.       IF NO WINDOW IS PART OF THE AT REQUIRED HEART TO THE GOVERNING CODE AND LOCAL CODES.       91.       PROVIDE WOOD BLOCKING II         37.       SPECIFICATION HAS NOT BEEN PROVIDED, SEE NOTE SHEETS WITHIN THIS PACKAGE FOR A LIST OF RODUCTS.       91.       PROVIDE WOOD BLOCKING II       91  | ET PAPER HOLDERS ARE    |
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|   |                         |

#### NOTES

ARE DIMENSIONED 3 1/2" OR 5 1/2" FOR INTERIOR WALLS AND 6" FOR EXTERIOR WALLS. (ACTUAL) U.N.O.

HALL BE AS FOLLOWS: REFER TO ARCHITECTURAL NOTES AND STRUCTURAL FRAMING PLANS FOR ALL STUD SIZING AND SPACING OR AS CODE

S TO BE NOT LESS THAN 20" X 30" (CLEAR OPENING).

BE CLASS-A (MINIMUM). SEE STRUCTURAL INFORMATION FOR OTHER CRITERIA.

E PLATES IN CONTACT WITH CONCRETE TO BE BE PRESSURE TREATED AND HAVE A CONTINUOUS SILL SEALER BETWEEN THE TOP OF THE ALL AND THE BOTTOM OF THE PLATE.

ED RAMPS SHALL BE BROOM FINISHED PERPENDICULAR TO SLOPE. CONTRACTOR MUST PROVIDE 0.8 SLOPE ON ALL RAMPS. SLOPE RAMPS REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR DETAILS. ZERO TOLERANCE ALLOWED.

LIER TO FIELD MEASURE AREA OF WORK AFTER ROUGH FRAMING, TO ASSURE AN EXACT FIT. NOTIFY ARCHITECT OF ANY DISCREPANCIES. R BOARD SHALL BE USED IN BOTH TUB AND SHOWER COMPARTMENTS WHERE TILE IS APPLIED, UNLESS NOTED OTHERWISE. INSTALLATION OF CONFORM WITH THE TCA LATEST EDITION FOR TILE INSTALLATION. WHERE TILE ABUTS A RATED WALL TILE BACKER BOARD SHALL BE

SH SCHEDULE FOR SPECIFIED FLOOR FINISHES.

FOR FLAME SPREAD RATINGS OF MATERIALS.

ATERIALS FOR BALCONIES, SOFFITS, OVERHANGS, ETC, TO BE APPROVED EXTERIOR GRADE MATERIALS ONLY AND PER CODE.

HALL BE TAKEN TO MAKE SURE THAT ALL PIPING LOCATED WITHIN EXTERIOR WALLS ARE PROTECTED FROM FREEZING, BUILDING

ERED SHOP DRAWINGS FOR PREFABRICATED WOOD TRUSSES AND FOR THE FIRE SUPPRESSION SYSTEM (WHEN REQUIRED) TO THE R REVIEW PRIOR TO START OF GENERAL CONSTRUCTION. NDOWS AND DOORS SHALL BE ADEQUATE TO MINIMIZE MOVEMENT AND LESSEN CRACKING OF EXTERIOR MATERIALS (DOUBLE STUDS

ME LOCATIONS).

RECAUTIONS OVER AND ABOVE ANY SHOWN ON PLANS SHALL BE TAKEN BY CONTRACTOR TO MINIMIZE EXTERIOR AND INTERIOR MATERIALS FROM

XTERIOR WALLS AS INDICATED WITHIN THESE CONSTRUCTION DRAWINGS. SEE WALL AND FLOOR/ROOF ASSEMBLIES FOR MORE INFORMATION. ONS SO THAT ANY PIPING IN WALLS IS CLOSE TO THE BACK SIDE OF DRYWALL AND PROPERLY INSULATED SO THAT FREEZING DOES NOT OCCUR. OR CORRISION RESISTANT FLASHING AT THE HEAD, SILL, AND JAMBS OF ALL WINDOWS, ROOF OPENINGS, AND THE INTERSECTION OF ROOF AND SEALANT TO BE USED AT THE TOP AND SIDES TO GUARANTEE LEAK-PROOF CONSTRUCTION. U.N.O.

O ALL EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, BETWEEN WALL PANELS, AND TO ALL PENETRATIONS OR UTILITIES S AND ROOFS. REF. TO LOCAL CODES (OR M.E.P.) FOR ADDITIONAL REQUIREMENTS.

ADHEREING BITUTHENE AT HEAD, JAMB AND SILL OF ALL DOORS AND WINDOWS.

ALLS PER STRUCTURAL DRAWINGS OR AS REQUIRED BY CODE.

FOR STAIR RISER HEIGHTS AND TREAD DEPTHS.

ORS ARE REQUIRED AND SHALL CONFORM TO MBC 907.2.9 AND LOCAL GOVERNMENTAL OR NATIONAL REQUIREMENTS INCLUDING NUMBER,

D PORCHES AND GARAGE SLABS TO SLOPE IN A DIRECTION AWAY FROM THE BUILDING SO AS TO SHED WATER AWAY FROM THE BUILDING.

R SIZE TO BE 5" WITH 3" X 4" DOWNSPOUT LEADERS OFF GUTTERS. WHERE DOWNSPOUTS DISCHARGE TO GRADE ALL DOWNPSOUTS SHALL BE FACE DRAINAGE U.N.O.. ALL GUTTERS AND DOWNSPOUTS SHALL BE EXTRUDED ALUMINUM.

ING IN BATH AND KITCHEN WALL CAVITIES WHERE NEEDED TO SUPPORT CABINETS. PROVIDE ADEQUATE WOOD BLOCKING BETWEEN STUDS NT OF STAIR HANDRAILS, BALCONY GUARDRAILS, LIGHT FIXTURES AND ALL OTHER WALL HUNG ITEMS. SEE INTERIOR ELEVATIONS FOR CATIONS.

TED, RAILING SUB-CONTRACTOR TO VERIFY POUND FORCE ON GUARD RAILING TO DETERMINE ADEQUATE NUMBER OF SUPPORT POSTS. NO T PREFERRED.

BE INSTALLED AROUND ALL WINDOW, DOOR AND ROOF OPENINGS AND AT THE INTERSECTION OF CHIMNEYS, WOOD CONSTRUCTION, AND FRAME

ND TOILET PAPER HOLDERS ARE REQUIRED IN EACH BATHROOM. PROPER BLOCKING IS REQUIRED FOR INSTALLATION.

TRUSS CAVITIES AS REQUIRED TO MAINTAIN FIRE RATING AT DUCT PENETRATIONS, WHERE THEY OCCUR.

XTERIOR WET WALLS AS REQUIRED TO PROTECT PIPING FROM FREEZING.

HOOKUP TO BE AT STANDARD HEIGHT. ALL RANGE HOODS TO BE DUCTED DIRECTLY TO THE OUTSIDE. ALL EXHAUST FANS SHALL BE DUCTED AND SHALL MAINTAIN A CONSISTENT PENETRATION PATTERN IN BOTH WALLS AND ROOFS.

BLOCKING AND/OR DOUBLE JOISTS UNDER ALL PERPENDICULAR AND PARALLEL PARTITIONS AND AT STAIR OPENINGS.

EQUIPMENT TO BE FULLY GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL PAYMENT AND ACCEPTANCE.

E CONTRACTOR'S RESPONSIBILITY TO PERSONALLY INSPECT THE WORK IN PROGRESS, AND AS A WHOLE, ASSURING HIMSELF THAT THE WORK ON PART OF THE PROJECT IS READY FOR PERIODIC AND/OR FINAL REVIEW, BEFORE CALLING UPON THE ARCHITECT AND OWNER TO MAKE THEIR BSERVATION VISIT OF THE WORK.

PART OF THE MAIN ENTRANCE DOOR A "PEEP HOLE" VIEWER SHALL BE INSTALLED. ACCESSIBLE UNITS TO HAVE TWO DOOR VIEWERS IEIGHTS.

D BLOCKING IN CEILING AT CEILING FIXTURE OF ALL BEDROOMS FOR FUTURE CEILING FAN INSTALLATION

E CONSTRUCTION, FIREBLOCKING SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) DRM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE.

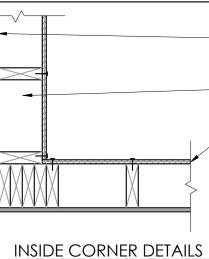
SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR <sup>1</sup>10-FOOT INTERVALS BOTH VERTICAL AND HORIZONTAL. TYPICAL FOR MULTI-UNIT BLDGS ONLY.

D OTHERWISE ALL WOOD SHALL BE SPRUCE-PINE-FUR #2. ALL INTERIOR PAINTED WOOD TRIM SHALL BE POPLAR WITH THE EXCEPTION ETRY ITEMS AND ALL EXTERIOR TRIM SHALL BE COMPOSITE MATERIALS TO MATCH SIDING AND SHALL BOTH BE SUPPLIED BY A SINGLE ER. COMPOSITE TRIM SHALL BE COLOR IMPREGNATED AND 3/4" THK. UNLESS NOTED OTHERWISE.

SHALL BE FINISHED WITH 5/8" FIRECODE GYP. BRD. AT ALL INTERIOR WALLS THAT ABUT THE COMMON WALLS WITH THE HOME, AND ALL

#### **BRACED WALL COMPLIANCE**

#### BRACED WALL COMPLIANCE



2 X 6 WD. STUDS.

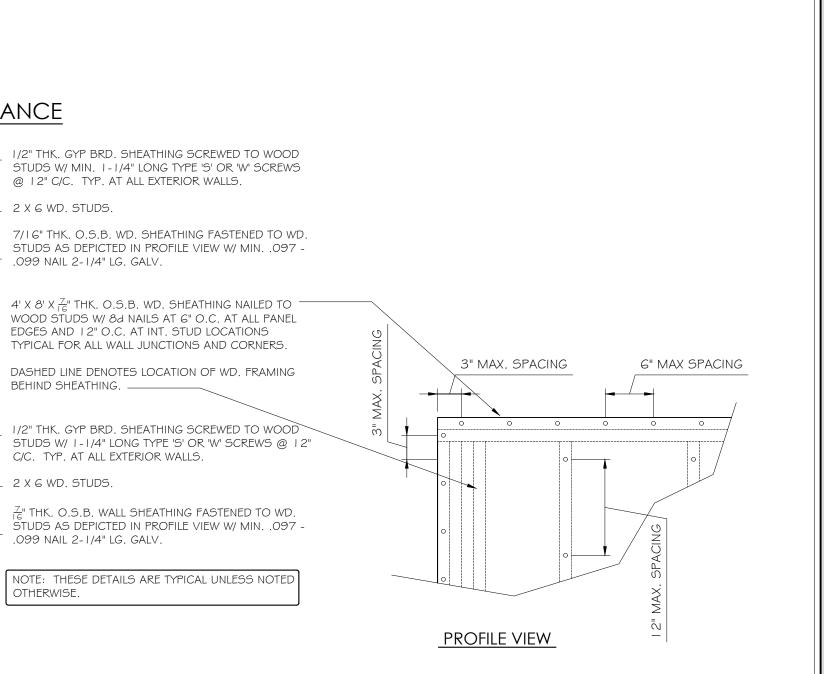
BEHIND SHEATHING.

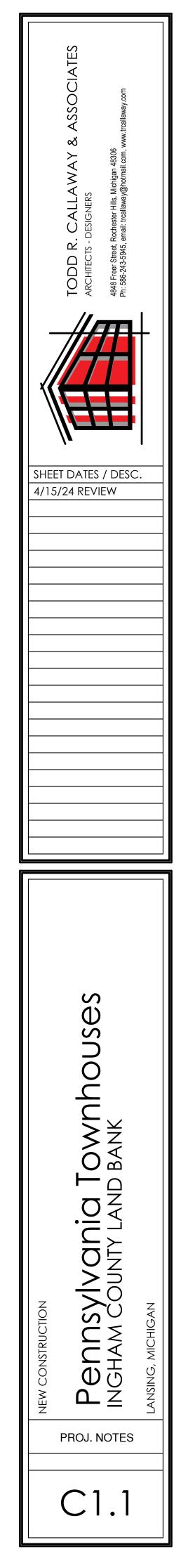
\_ 2 X 6 WD. STUDS.

.099 NAIL 2-1/4" LG. GALV.

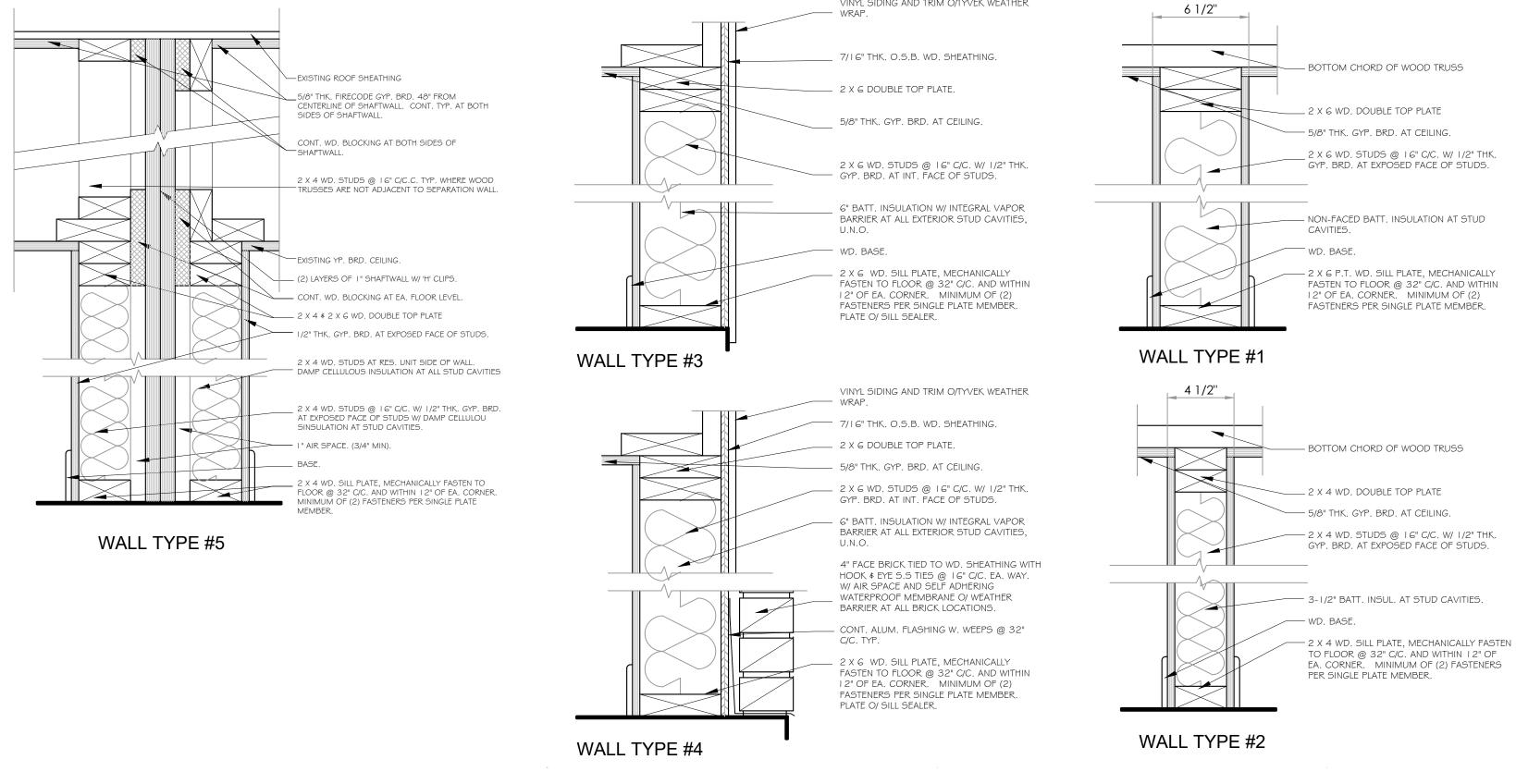
OTHERWISE.

OUTSIDE CORNER DETAILS



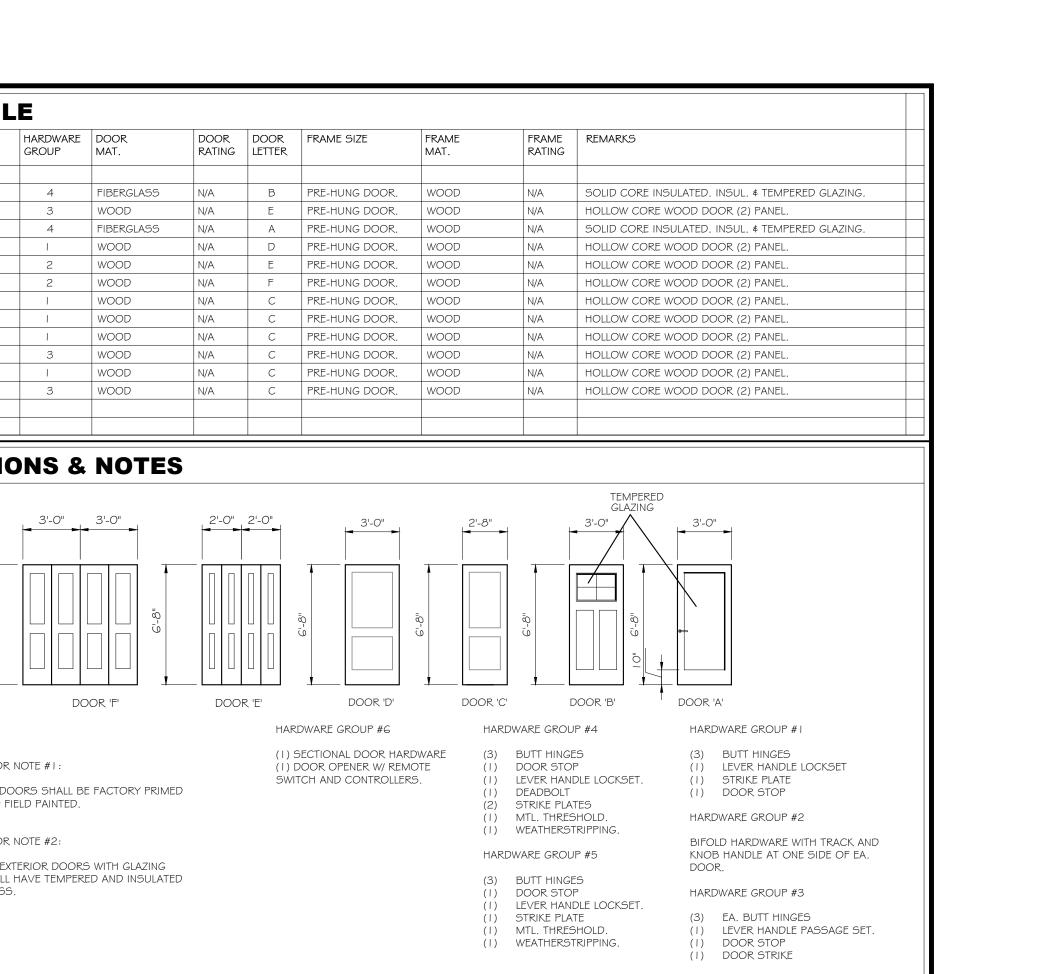


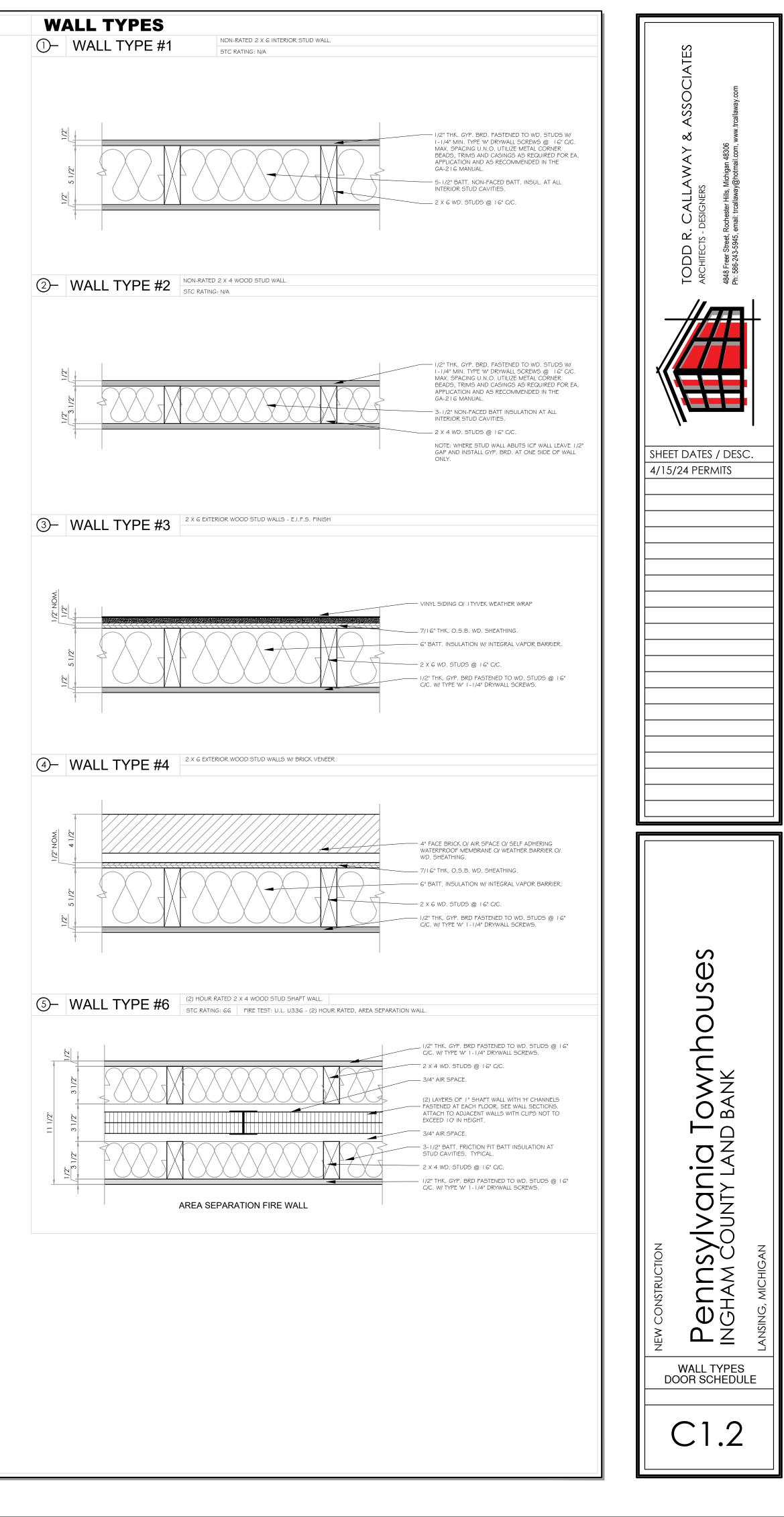
#### WALL TYPE SECTIONS

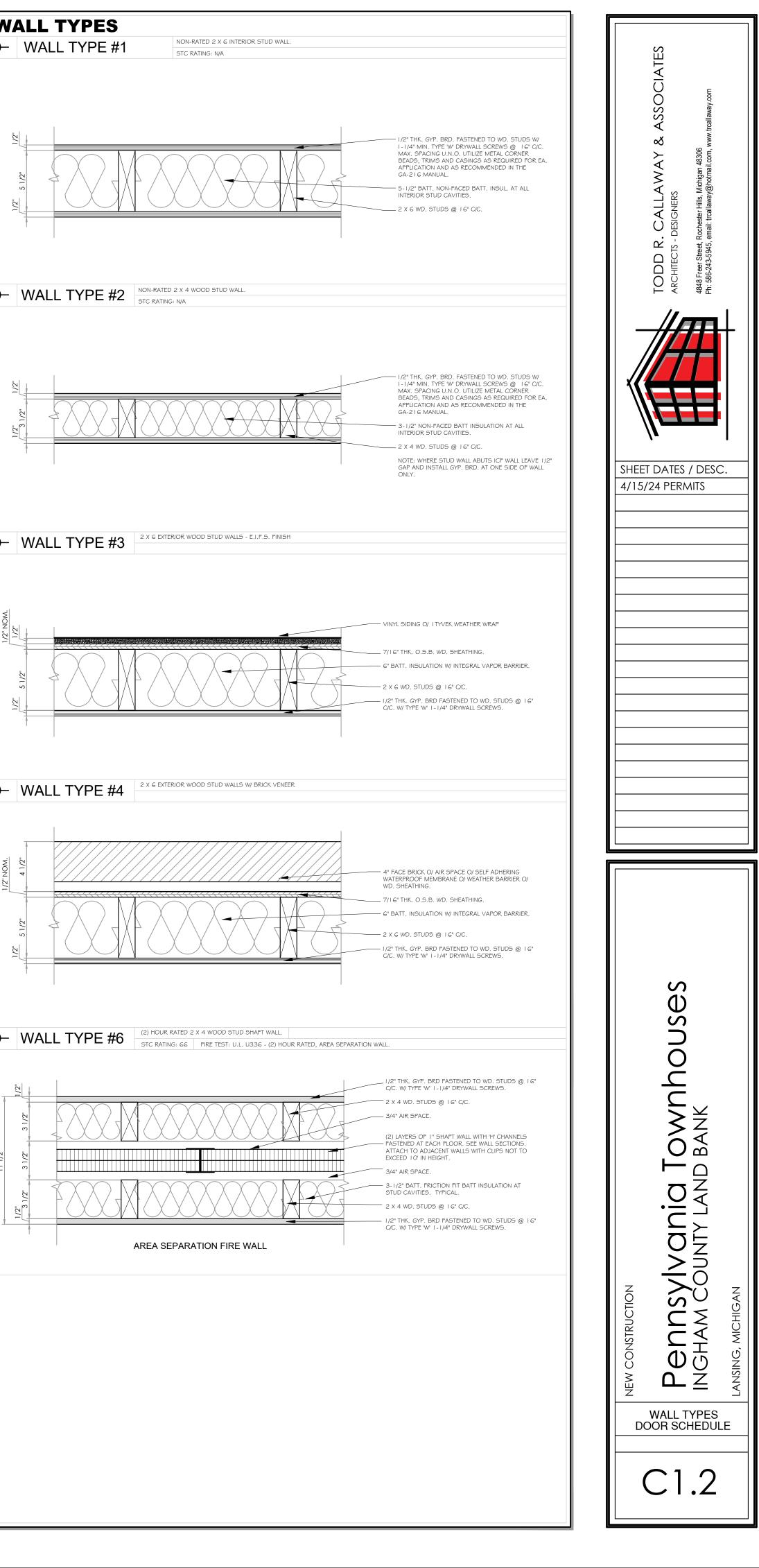


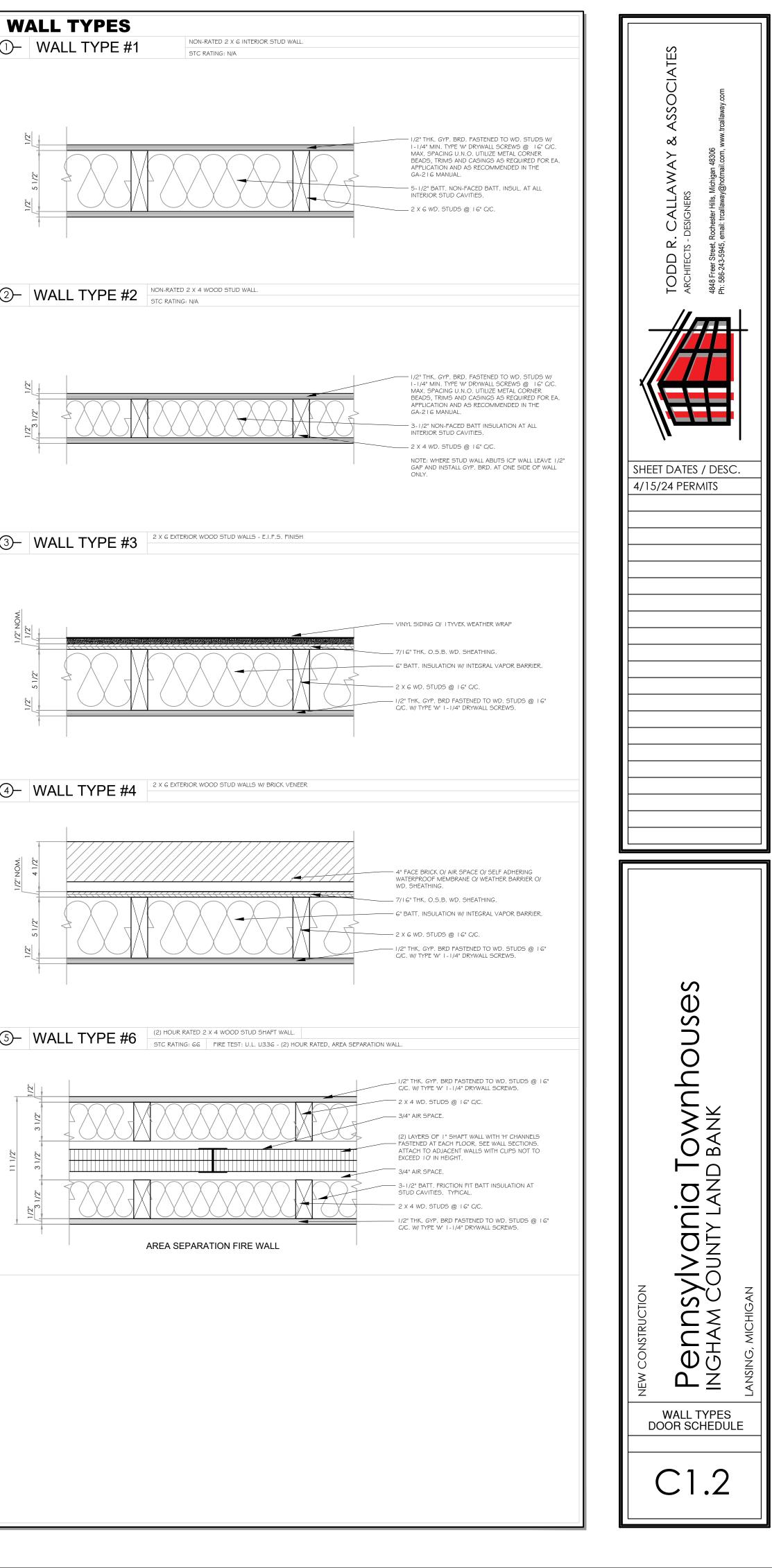
VINYL SIDING AND TRIM O/TYVEK WEATHER

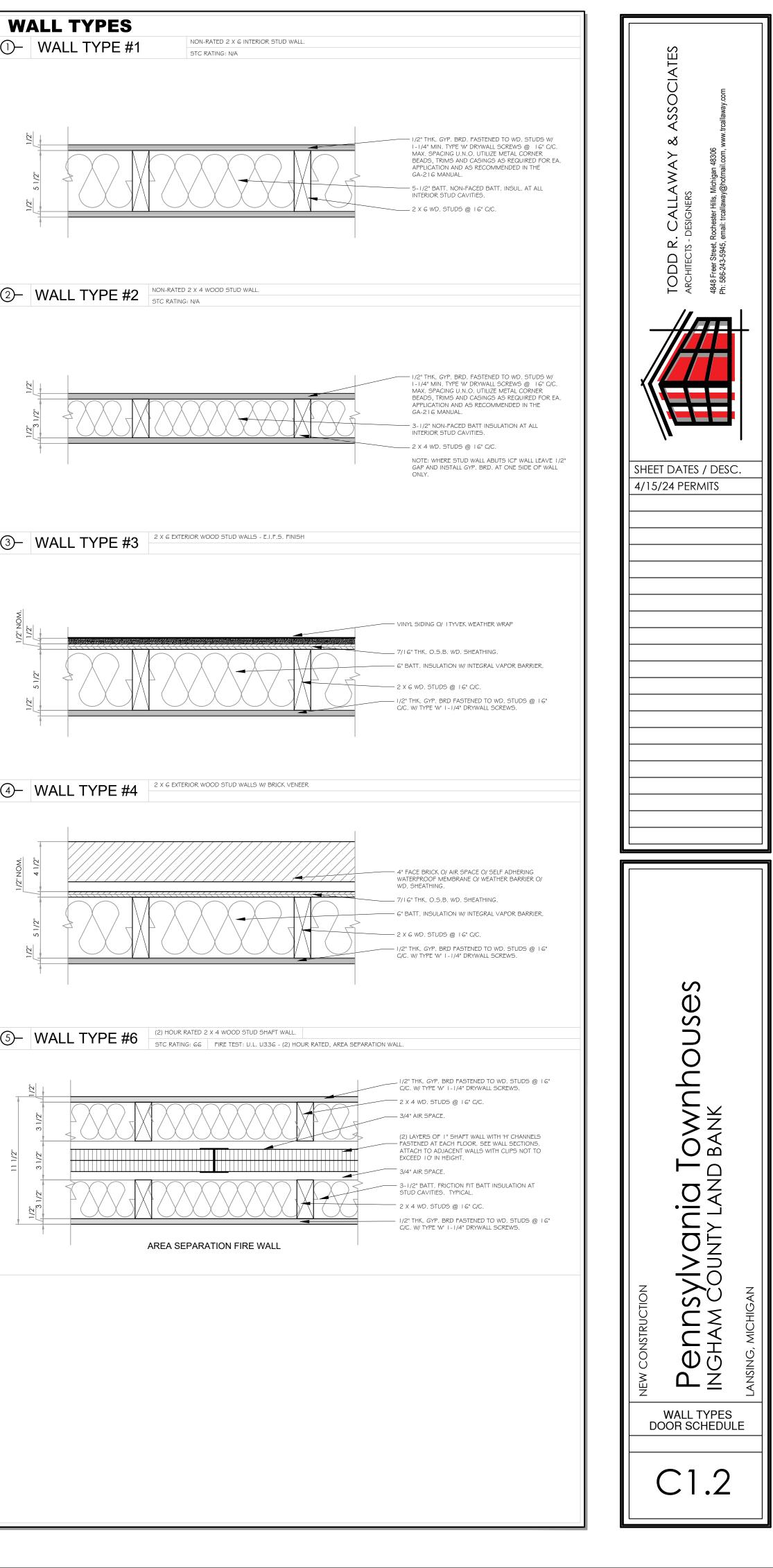
| DOO      | R SCHEDUL         |
|----------|-------------------|
|          | DOOR SIZE         |
| book no. | DOOROLLE          |
|          |                   |
| 002A     | 3'-0" X 6'-8"     |
| 003A     | 3'-0" X 6'-8"     |
| 004A     | 3'-0" X 6'-8"     |
| 005A     | 3'-0" X 6'-8"     |
| 006A     | PR. 2'-0" X 6'-8" |
| 007A     | PR. 3'-0" X 6'-8" |
| 007B     | 2'-8" X 6'-8"     |
| 008A     | 2'-8" X 6'-8"     |
| 008B     | 2'-8" X 6'-8"     |
| 009A     | 2'-8" X 6'-8"     |
| 009B     | 2'-8" X 6'-8"     |
| 009C     | 2'-8" X 6'-8"     |
|          |                   |
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| DOO      | <b>R ELEVATIO</b> |
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|          | DOOR              |
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|          | ALL DC<br>AND FI  |
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|          | SHALL<br>GLASS    |
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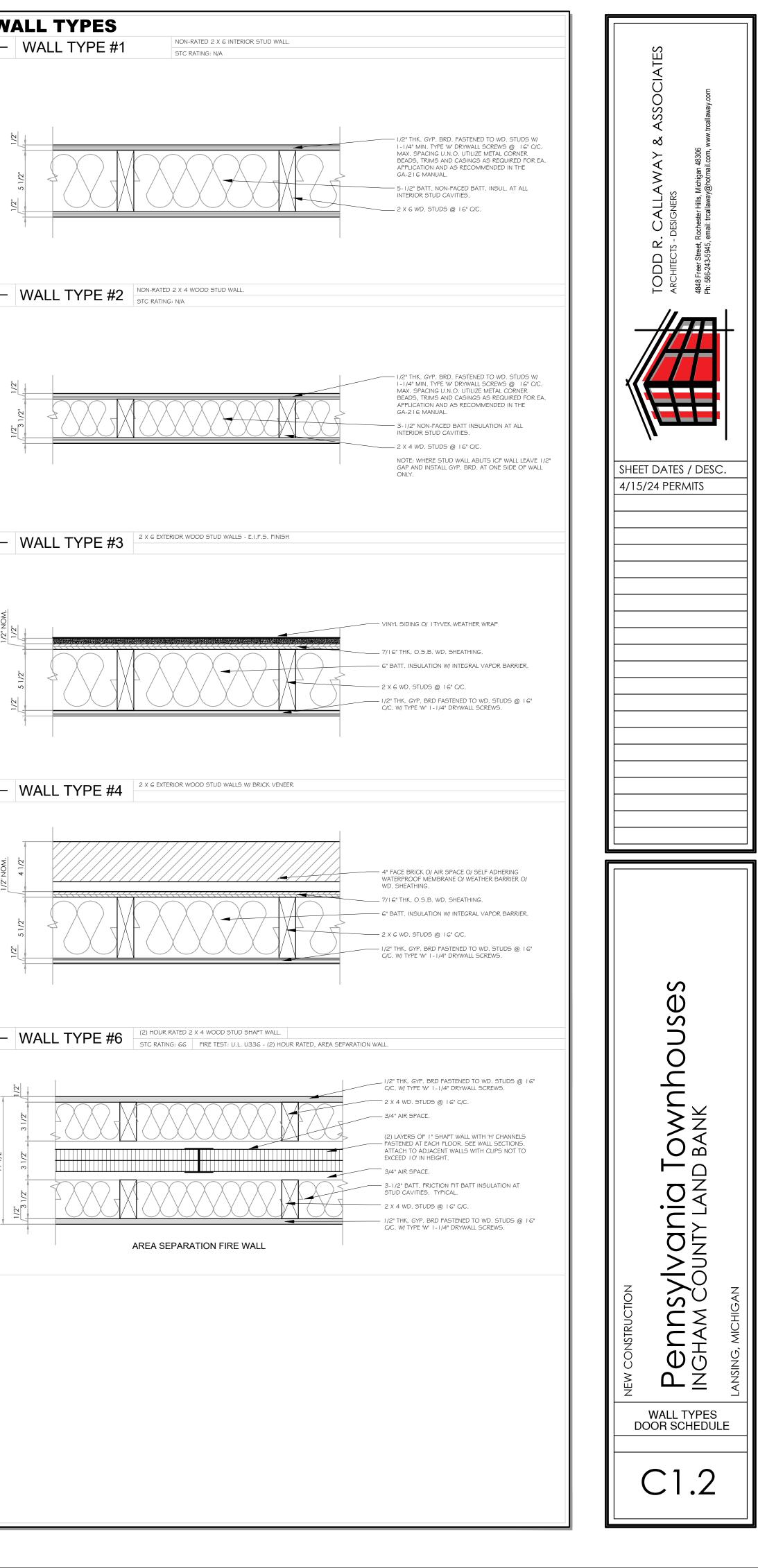


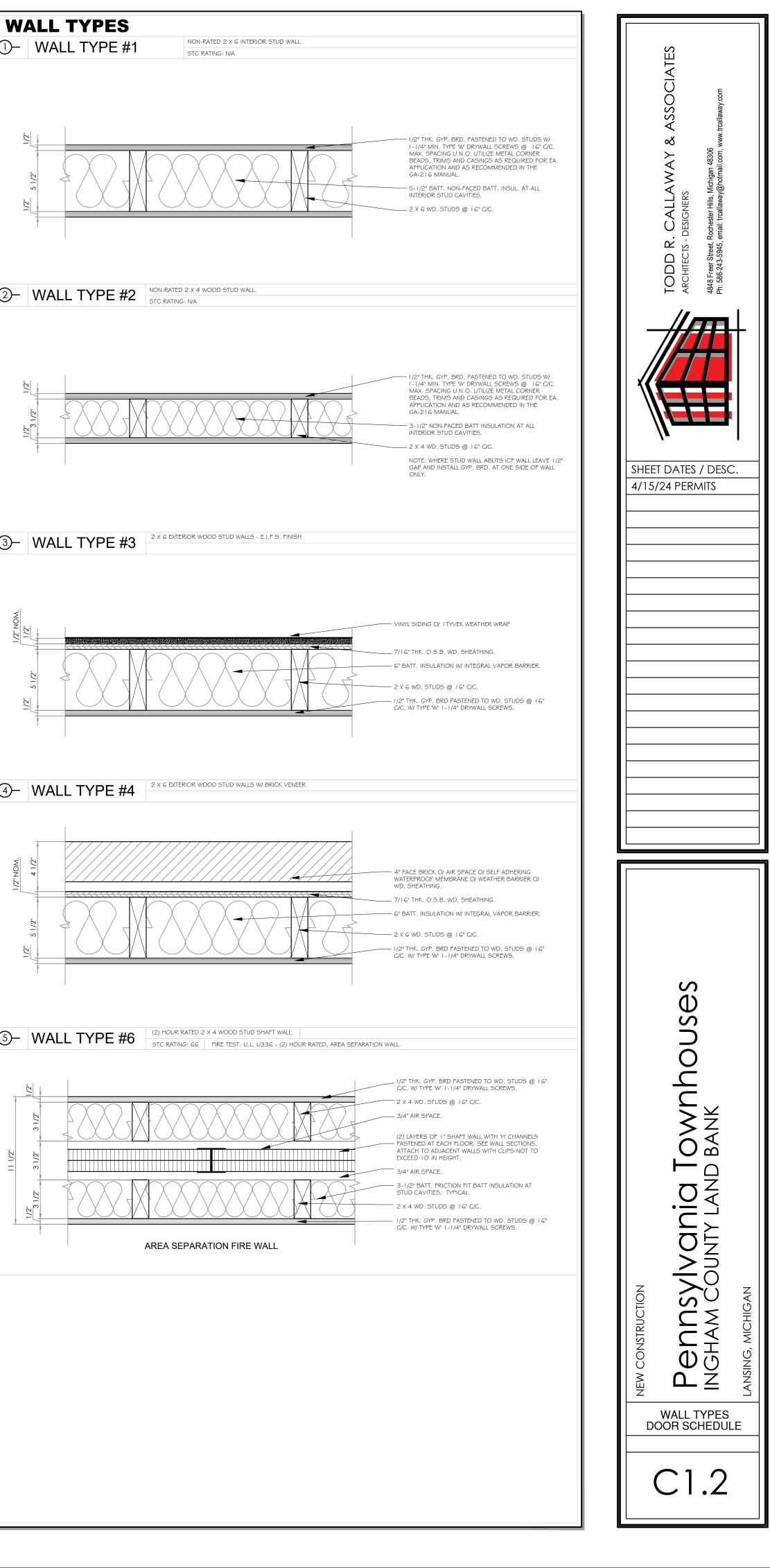


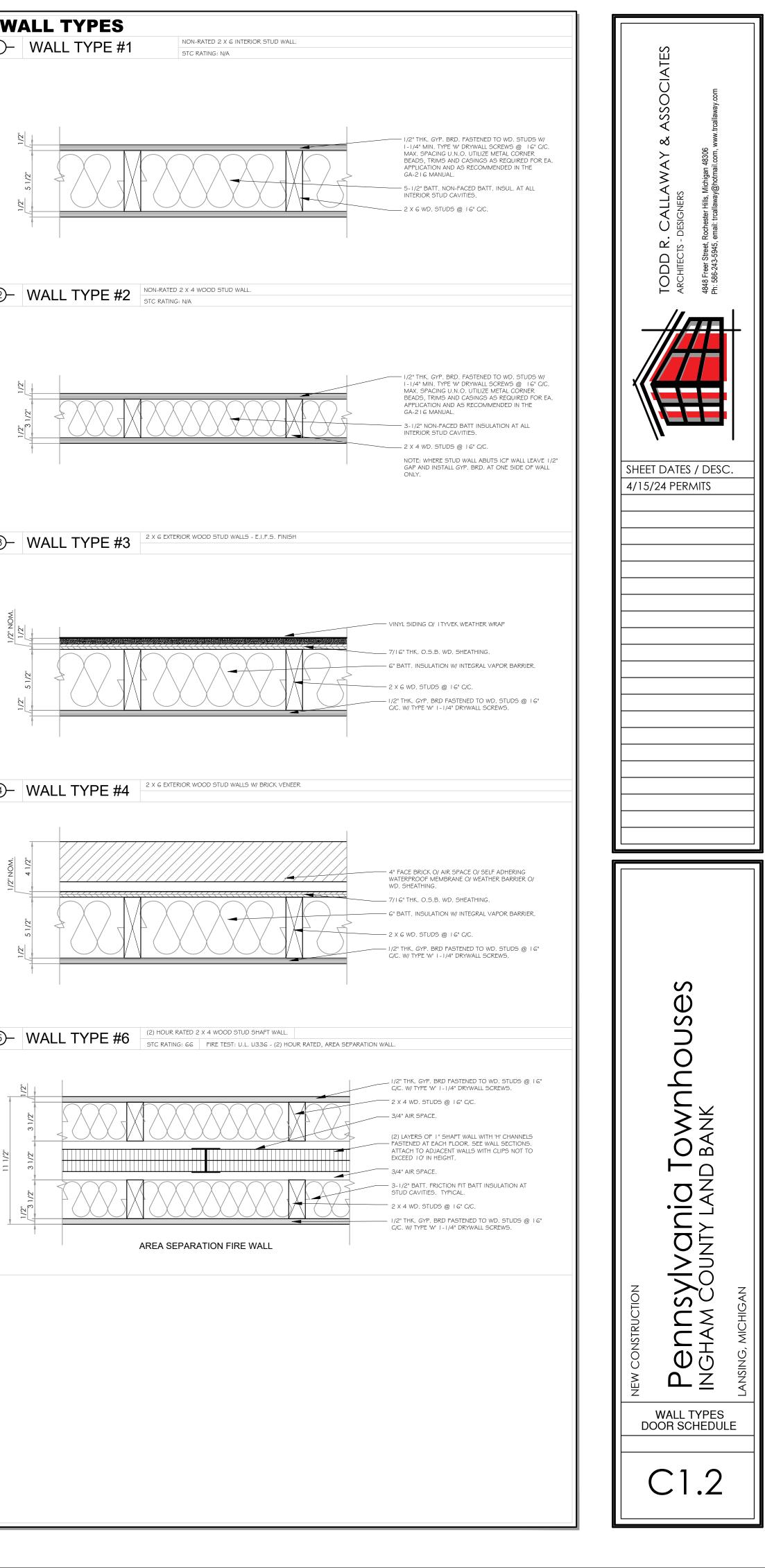




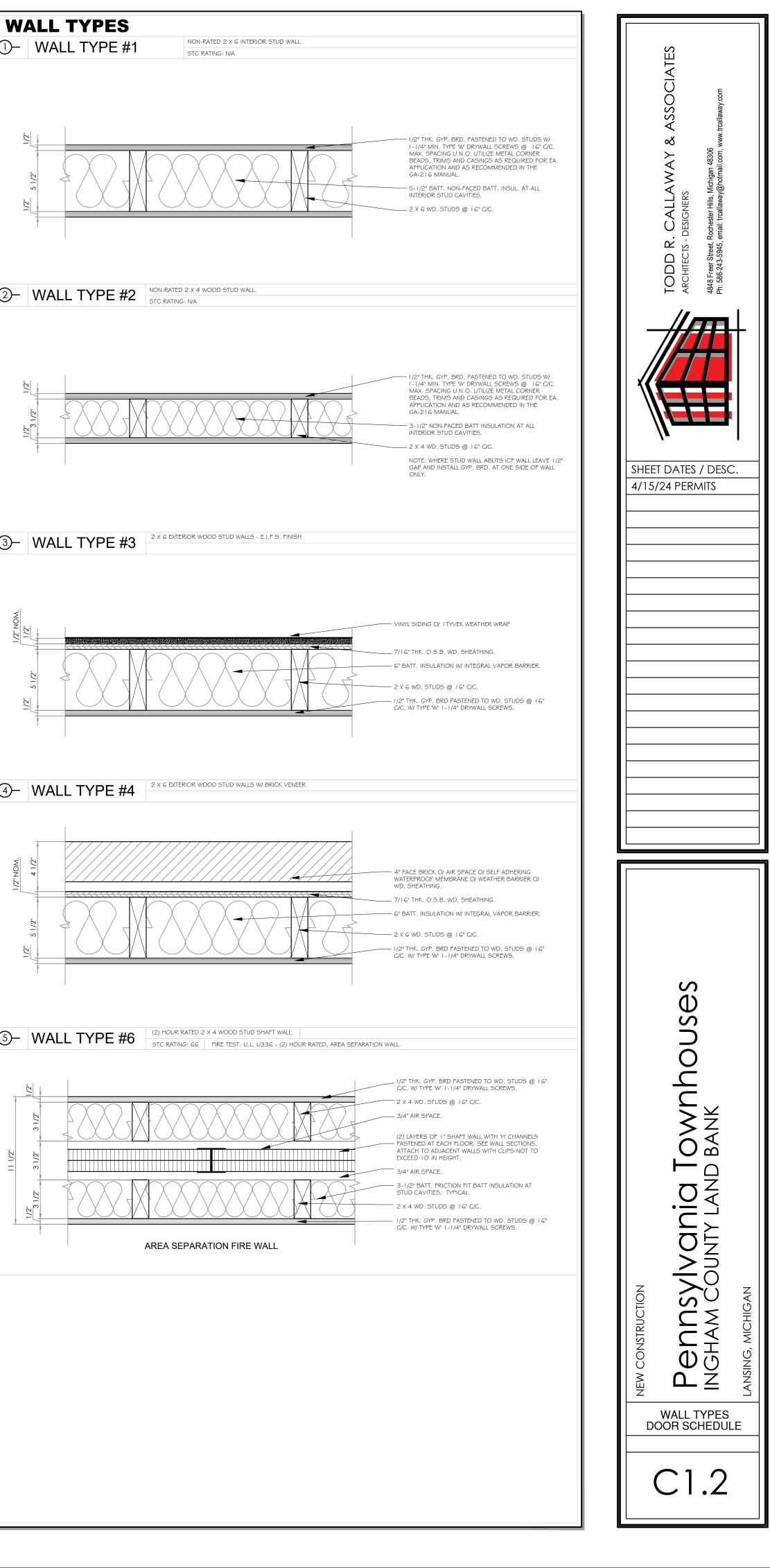




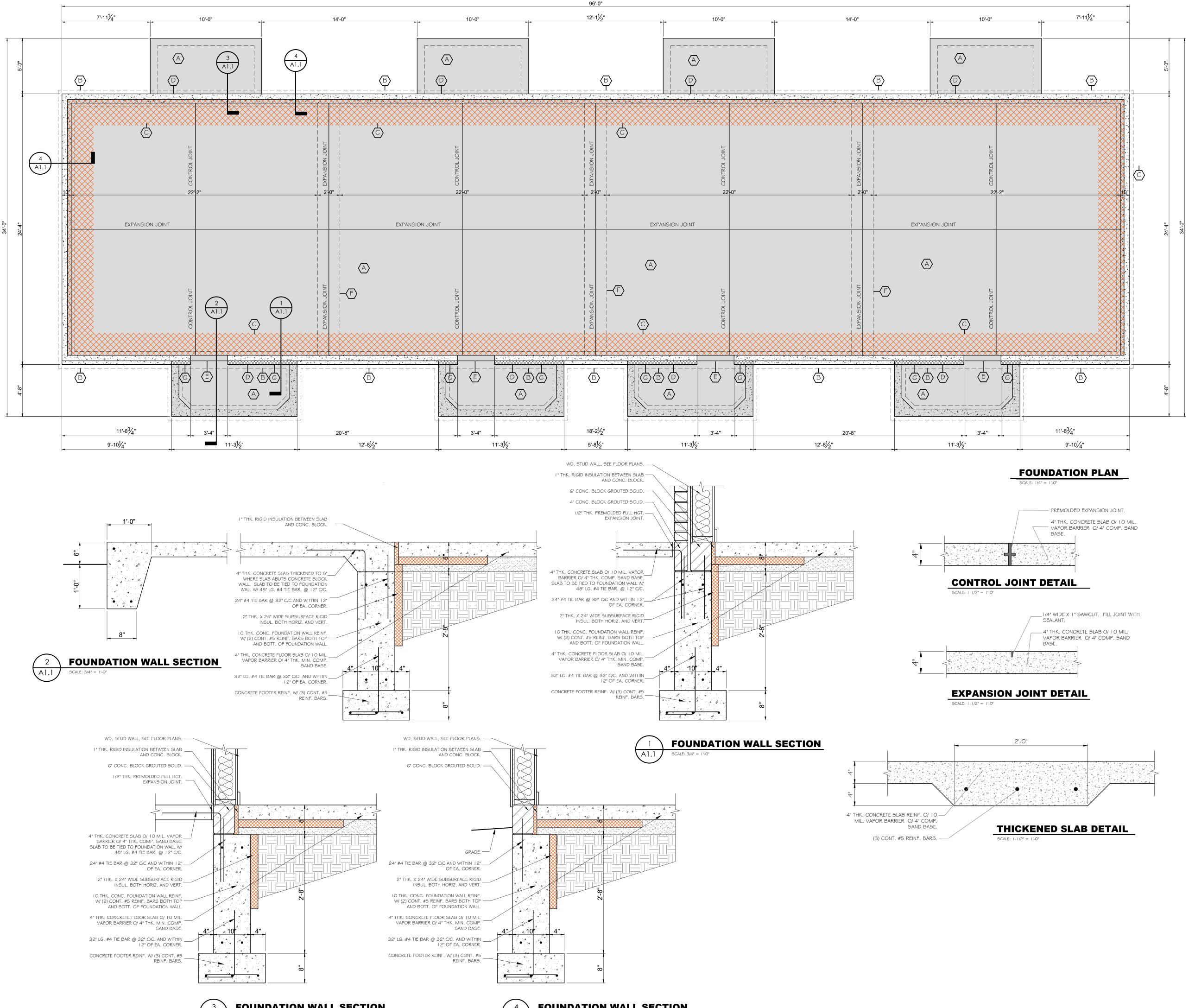


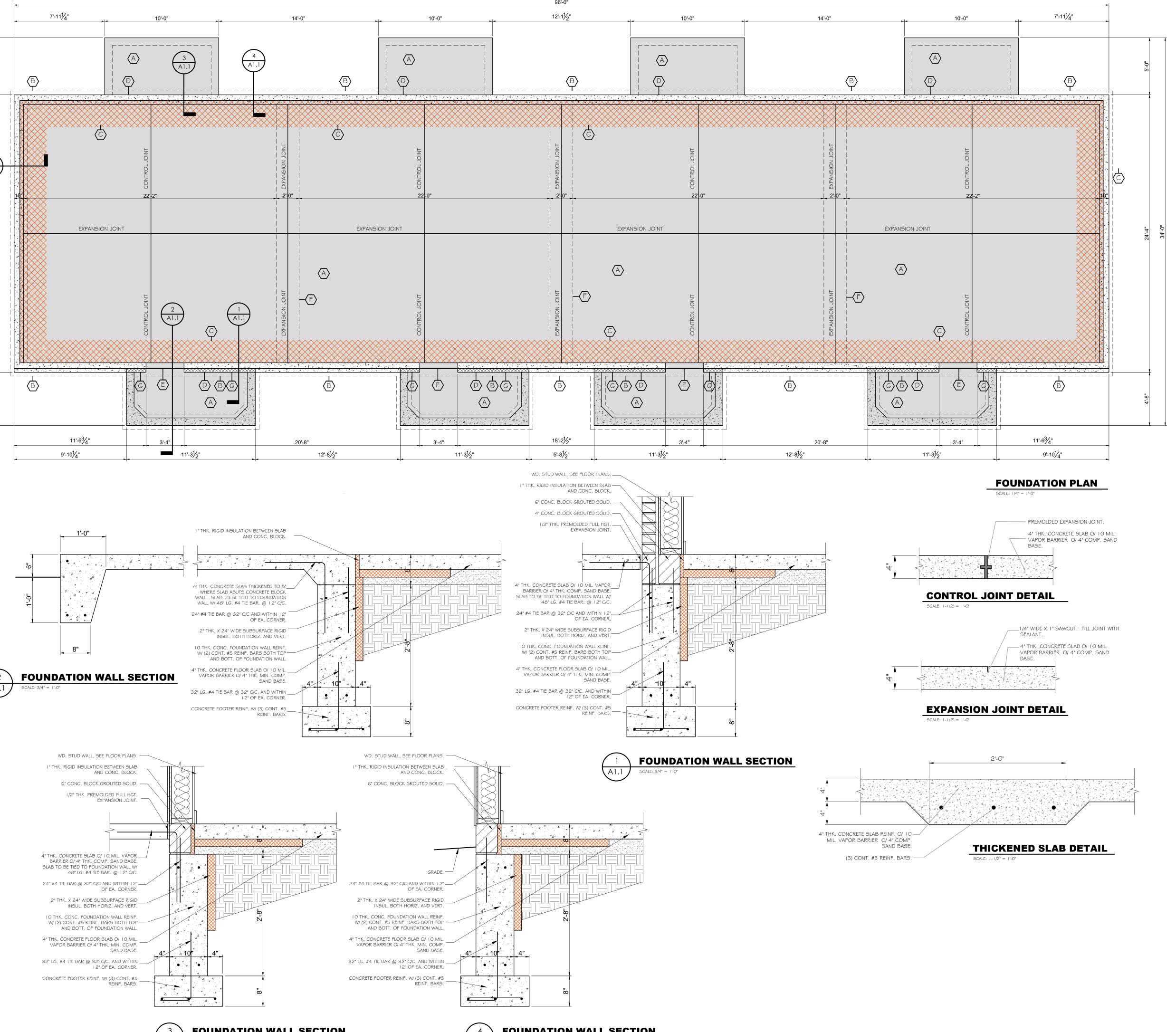


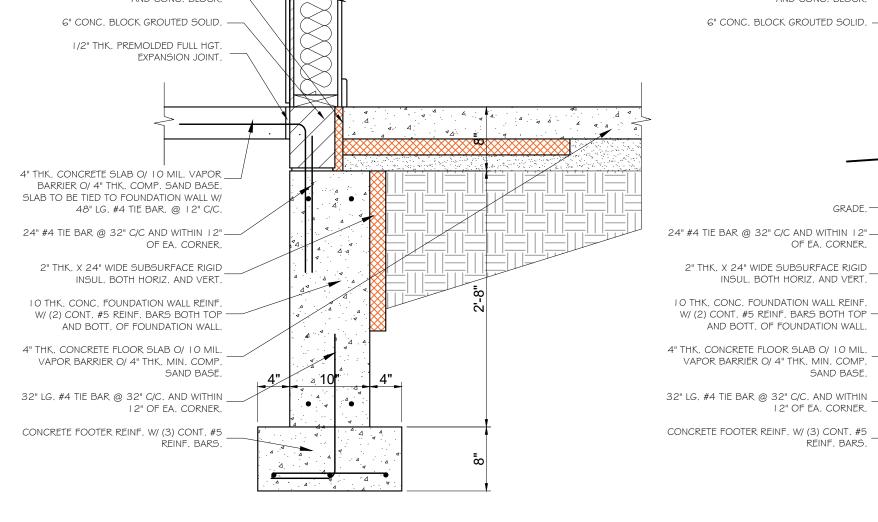












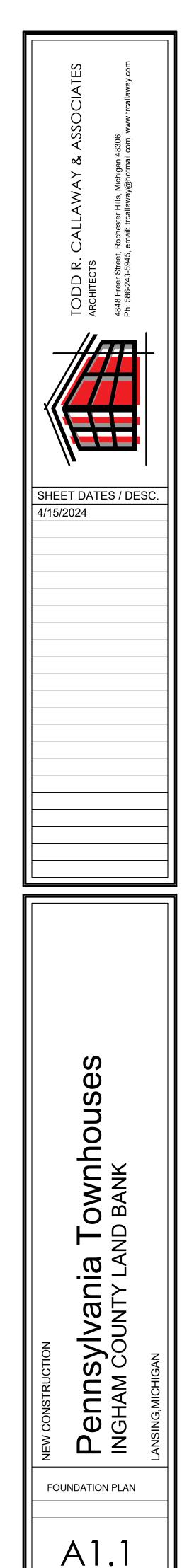


#### FOUNDATION WALL SECTION SCALE: 3/4" = 1'-0"

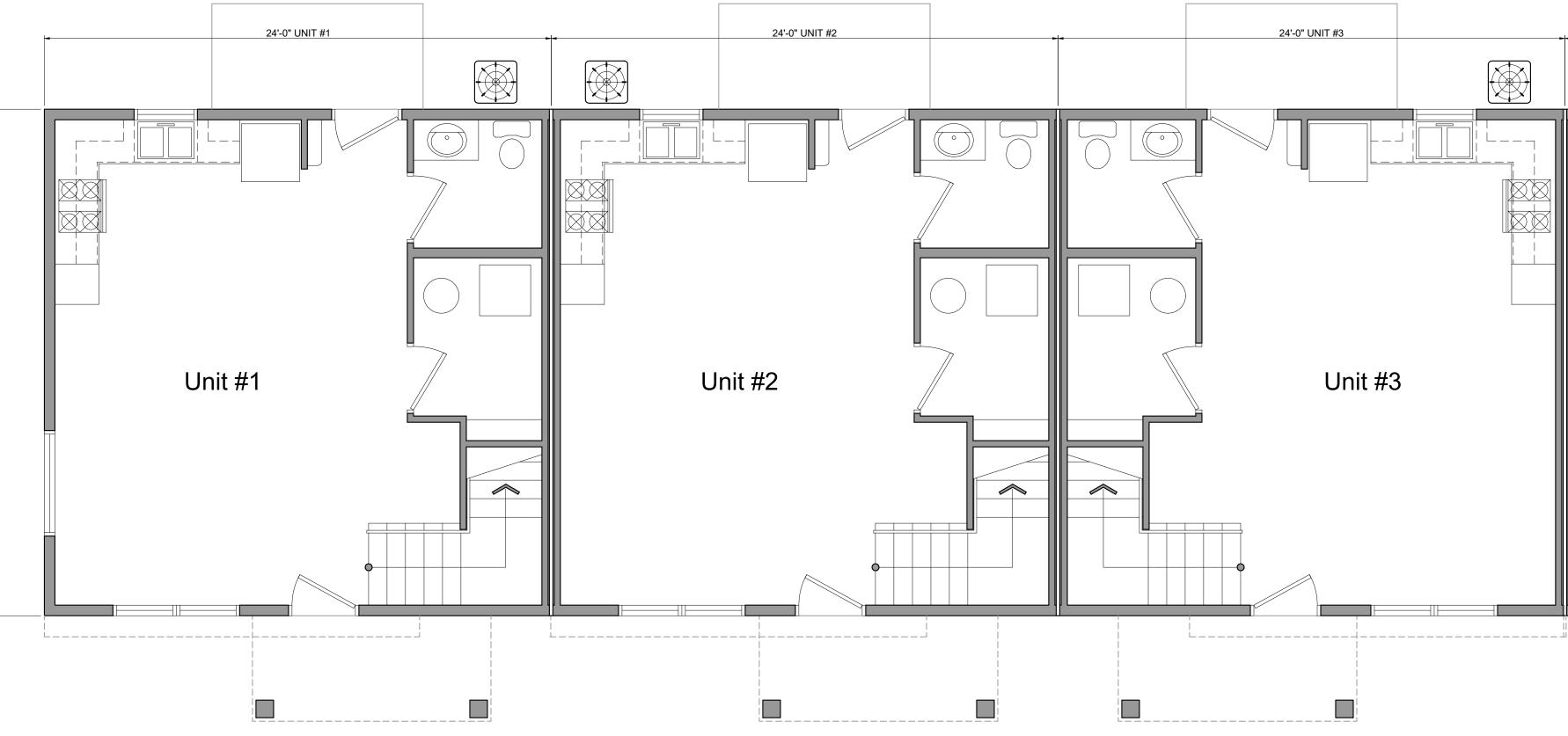
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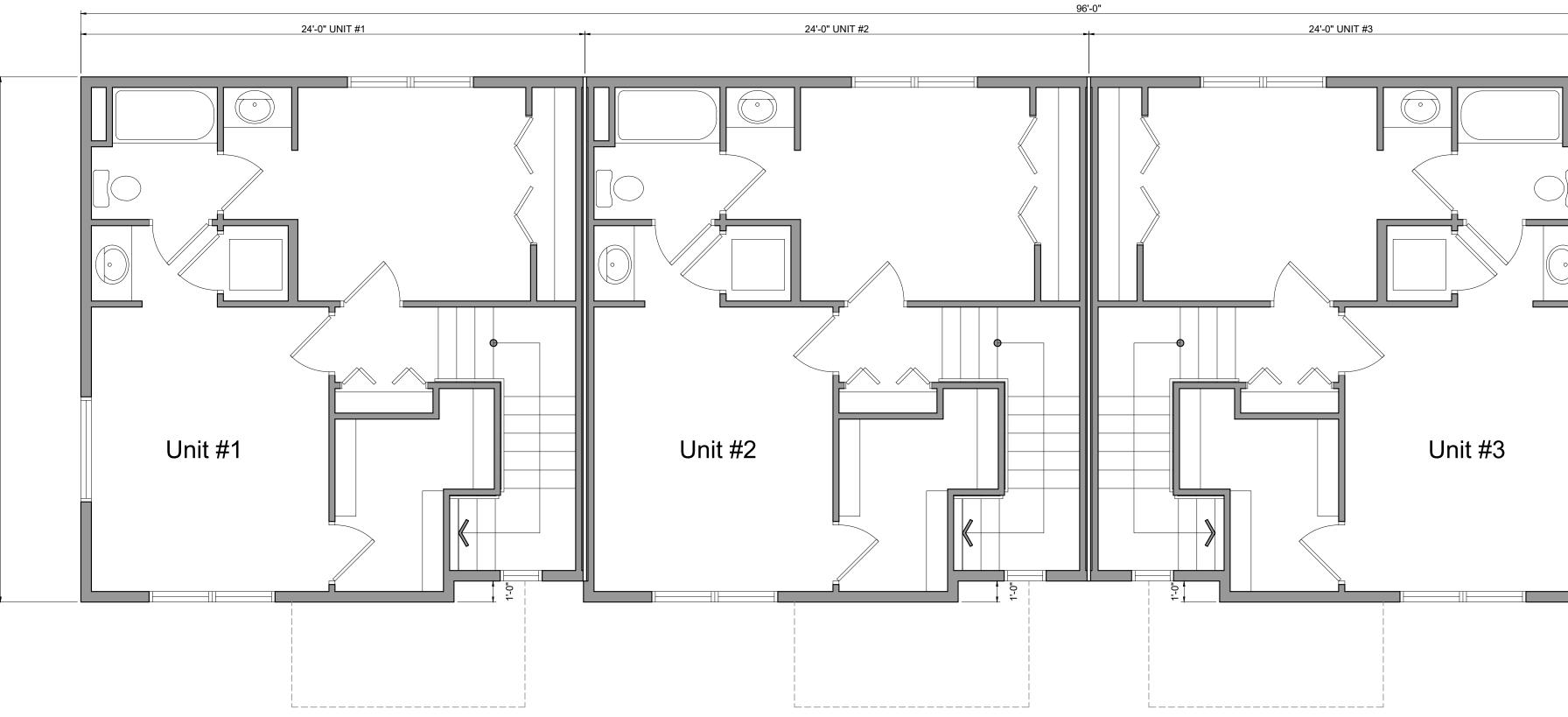
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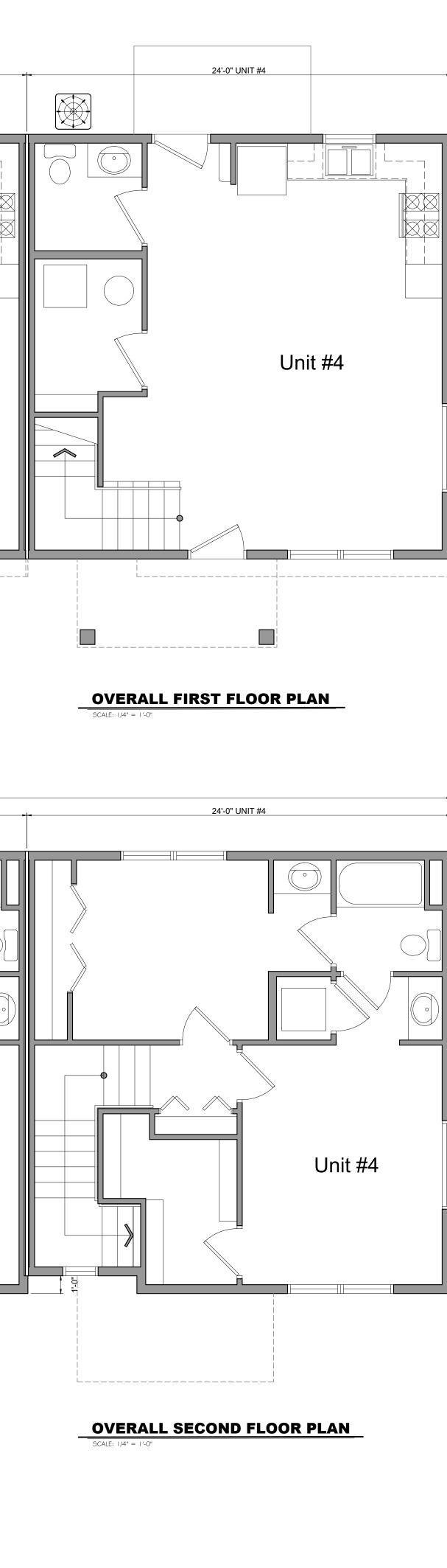
| GE       | NERAL NOTES   |
|----------|---|
| ١.       | CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO<br>THE START OF CONSTRUCTION. ANY CONDITIONS FOUND TO BE<br>CONTRARY TO WHAT IS INDICATED WITHIN THESE DOCUMENTS SHALL<br>BE REPORTED TO THE ARCHITECT IMMEDIATELY.   |
| 2.       | ALL CONTRACTORS AND ANY OTHER PERSONS DOING WORK ON THIS<br>BUILDING SHALL BE RESPONSIBLE TO BE FAMILIAR WITH THE<br>CONTENTS OF ALL OF THE CONSTRUCTION DOCUMENTS.   |
| 3.       | ALL INTERIOR DIMENSIONS ARE TAKEN TO THE FACE OF THE STUD. ALL<br>EXTERIOR DIMENSIONS ARE TAKEN TO THE FACE OF THE WALL<br>SHEATHING U.N.O. AND ALL WINDOWS ARE TAKEN TO THE CENTERLINE<br>OF THE WINDOW.   |
| 4.       | ALL ANGLES ARE 45 DEG. TO HORIZONTAL & VERTICAL DIRECTIONS U.N.O.   |
| 5.       | SOUND INSULATE ALL WALLS SURROUNDING LAUNDRY ROOMS,<br>PLUMBING STACKS AND HVAC UTILITY CLOSETS. ALL WATER SUPPLY<br>PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED CLOSE TO<br>BACK SIDE OF DRYWALL AND FULLY PROTECTED FROM FREEZING.   |
| 6.       | ALL INTERIOR DOORS SHALL BE UNDERCUT 3/4" TO ALLOW FOR RETURN AIR FLOW.   |
|          | INSTALL WD. BLOCKING IN ALL WALLS TO RECEIVE WALL HUNG ITEMS.   |
| 8.       | UTILIZE TEMPERED GLAZING AS REQUIRED TO MEET ALL LOCAL CODE<br>COMPLIANCE ISSUES. WINDOW SUPPLIER SHALL BE RESPONSIBLE FOR<br>PROVIDING TEMPERED WINDOW GLAZING IN THE APPROPRIATE AREAS.   |
| 9.       | TOWEL BARS LOCATED ABOVE TOILETS SHALL BE LOCATED AT 60"<br>A.F.F., ALL OTHER TOWEL BARS SHALL BE LOCATED AT 48" A.F.F.,<br>TOILET PAPER DISPENSERS SHALL BE LOCATED AT 24" A.F.F. AND<br>TOWEL RINGS LOCATED ABOVE LAVATORY COUNTERS SHALL BE SET AT<br>24" ABOVE COUNTER. BARRIER FREE REQUIREMENTS SUPERCEDE<br>THESE DIMENSIONS AS DEPICTED ON THE BARRIER FREE STANDARDS<br>SHEET. |
| 10.      | VERIFY ALL TUB AND SHOWER ROUGH OPENING DIMENSIONS WITH AN ACTUAL TUB AND SHOWER UNIT.  |
| 11.      | ALL PRODUCTS SHALL BE INSTALLED IN COMPLIANCE WITH ALL MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.  |
| 12.      | WATER RESISTANT GYP. BRD. SHALL BE USED IN LIEU OF STANDARD GYP. BRD. AT ALL BATHROOMS AND WET AREAS.   |
| 13.      | INSTALL STANDARD WOOD BLOCKING OR METAL STRAPS WITHIN ALL WALLS THAT ARE TO RECEIVE WALL HUNG ITEMS AND FUTURE WALL HUNG ITEMS.   |
| 14.      | INTERIOR ELEVATIONS ARE FOR SCHEMATIC PURPOSES ONLY. ACTUAL DIMENSIONS AND CABINET DESIGNS SHALL BE BY THE CABINET SUPPLIER.  |
| 15.      | ALL PRODUCT SELECTIONS SHALL BE BY THE OWNER. VERIFY<br>DIMENSIONS INDICATED WITH OWNER SUPPLIED PRODUCTS.  |
| 16.      | SEE MECHANICAL AND ELECTRICAL DRAWINGS, SUPPLIED BY OTHERS, FOR ALL OF THOSE ITEMS AND THEIR APPROXIMATE LOCATIONS.   |
| 17.      | ALL TUB/SHOWER UNITS TO HAVE SHOWER RODS MOUNTED AT<br>76-1/2" FROM FINISH FLOOR TO BOTTOM OF ROD. ALL WALK IN<br>SHOWER UNITS TO HAVE SHOWER RODS MOUNTED AT 79" A.F.F.  |
| 18.      | PROVIDE ADJUSTABLE SHELVES, HINGES, DRAWER PULLS AT ALL APPLICABLE LOCATIONS.   |
| 19.      | ALL RANGE EXHAUST HOODS SHALL BE RECIRCULATING TO INTERIOR U.N.O.   |
|          | INSTALL 'J' CHANNEL AT ALL WINDOWS.   |
| 21.      | UTILIZE 3,000 PSI CONCRETE ALL INTERIOR SLABS, FOUNDATION<br>WALLS AND FOOTERS. EXTERIOR SLABS SHALL UTILIZE 4,000 PSI<br>CONCRETE.   |
| 22.      | BACKFILL ALL FOUNDATION WALLS WITH GRANULAR MATERIAL ONLY.<br>ALL DRAIN TILE SHALL HAVE SILT SOCKS AND SHALL BE SURROUND<br>WITH A MINIMUM OF 24" OF PEASTONE VERT. AND HORIZONTALLY.   |
| 23.      | FOUNDATIONS ARE ENGINEERED WITH ASSUMED SOIL BEARING<br>CAPACITY OF 2,500 PSF. CONTRACTOR SHALL VERIFY SOIL<br>CONDITIONS.  |
| 24.      | INSULATED CONCRETE FORMS SHALL BE INSTALLED IN CONFORMANCE<br>WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.  |
| FO       | UNDATION NOTES  |
|          | 4" THK. CONCRETE FLOOR SLAB O/ 10 MIL. VAPOR BARRIER O/ MIN.  |
| (B       | 4" THK. COMP. SAND BASE.         DASHED LINE DENOTES LOCATION CONCRETE FOOTER.  |
| _<br>[]  | HATCHED AREA DENOTES LOCATION OF 2" THK. X 24" WIDE<br>SUB-SURFACE OF HORIZ. INSULATION. SEE SECTIONS FOR MORE  |
|          | INFORMATION.  |
| (D<br>(E | <ul> <li>ROLL DOWN INTERIOR CONC. SLAB TO TOP OF FOUNDATION WALL,<br/>INSTALL NEW 1/2" PREMOLDED EXPANSION JOINT BETWEEN INTERIOR<br/>AND EXTERIOR FLOOR SLABS.</li> </ul>  |
| (F       | THICKENED SLAB LOCATION.  |
| G        | CROSS HATCHED AREA DENOTES LOCATION OF 4" CONC. BLOCK LOCATIONS.  |
|          |   |
|          |   |
|          |   |

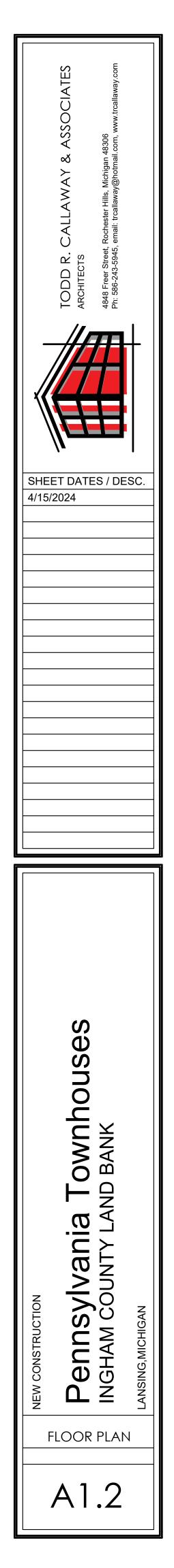


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| . T            | YPES   |   |
|----------------|--|---|
| )              | WALL TYPE #1 - 2 X G WD. STUDS @<br>THK. GYP. BRD. AT EXPOSED FACE O<br>WALLS. SOUND BATTS AT ALL INTERI<br>G" NON-FACED FRICTION FIT BATTS.   | F STUDS. PAINT FIN.   |
| )              | WALL TYPE #2 - 2 X 4 WD. STUDS @<br>THK. GYP. BRD. AT EXPOSED FACE O<br>WALLS. 3-1/2" NON-FACED BATTS AT   | F STUDS. PAINT FIN.   |
| )              | WALL TYPE #3 - VINYL SIDING AND TR<br>WEATHER WRAP O/ 7/16" THK. O.S.B<br>2 X G WD. STUDS @ 16" C/C. FILL S<br>BATT. INSUL. W/ INTEGRAL VAPOR BA<br>THK. GYP. BRD AT INTERIOR FACE OF  | . WD. SHEATHING O/<br>TUD CAVITIES W/ G"<br>RRIER. INSTALL $\frac{1}{2}$ "            |
| )              | WALL TYPE #4 - 4" FACE BRICK O/ AIR<br>ADHERING O/ TYVEK WEATHER WRAP<br>O.S.B. WD. SHEATHING O/ 2 X G WD.<br>FILL STUD CAVITIES W/ G" BATT. INSU<br>VAPOR BARRIER. INSTALL 2" THK. GY<br>FACE OF WALLS.   | 0/ 7/16" THK.<br>STUDS @ 16" C/C.<br>L. W/ INTEGRAL                                   |
| )              | WALL TYPE #5 - (2) LAYERS OF 1" THE<br>WITHIN PROPRIETARY METAL FRAME<br>FLOOR SYSTEM. INSTALL 2 X 4 WD.<br>W/ 3-1/2" NON-FACED BATT. INSULAT<br>CAVITIES W/ 1/2" THK. GYP BRD AT E<br>STUDS, HOLD OFF WALLS 3/4" FROM<br>WALL, TYP AT BOTH SIDES OF SHAFT | W/ BLOCKING AT<br>STUDS @ I G" C/C.<br>ION AT STUD<br>KPOSED FACE OF<br>FACE OF SHAFT |
| K              | SYMBOLS  |   |
| ION            | OF USE   | SYMBOL  |
| MBE            | R  | (XXX)   |
| MBE            | R  | XXX   |
| ELEV           | ATION  | <b>K</b>  |
| ΓAG            |  | X   |
|                |  | $\langle X \rangle$   |
| CUTS           | 6  | X<br>XX-X   |
| INTE           | RIOR ELEVATION TAG   |   |
| BSUF           | R SHIELD LOCATED ON ROOF<br>RFACE RIGID INSULATION AT<br>PLAN.   |   |
| ) LEC          | ) 'PUCK' LIGHT.  | $\bigcirc$  |
| ) LEC<br>IG F( | D 'PUCK' LIGHT, WITH WD. BLOCKING<br>OR FUTURE LIGHT / FAN.  | $\bigcirc_{FL.}$  |
| MOL            | JNTED LIGHT FIXTURE.   | $\boxtimes$   |
| NCE            | LIGHT FIXTURE.   | $\oplus$  |
| ligh           | T FIXTURE 78" A.F.F.   | Ø   |
| =AN            |  |   |
| TEC            | TOR / CO2 SENSOR   | O <sub>SD/CO2</sub>   |
| SPLIT          | ENTER: 2CT. FIBER HOME RUNS W/<br>TER, MEDIA CONVERTER, FIBERSYNC<br>D ETHERNET SWITCH.  | UMC   |
| • •            | RGG BLACK W/ WHITE SPARE + (I)<br>// SPARE (YELLOW).   |   |
| )El            | R SCHEDULE   |   |
|                | 6'-0" WIDE WINDOWS OR LESS - (3) 2 X<br>NG STUD.   | 12, (2) JACK  |

STUD + (1) KING STUD. HEADERS FOR 3'-O" OR LESS WINDOW OPENINGS - (3) 2 X 8, (1) JACK STUD AND (1) KING STUD.

#### **GENERAL NOTES**

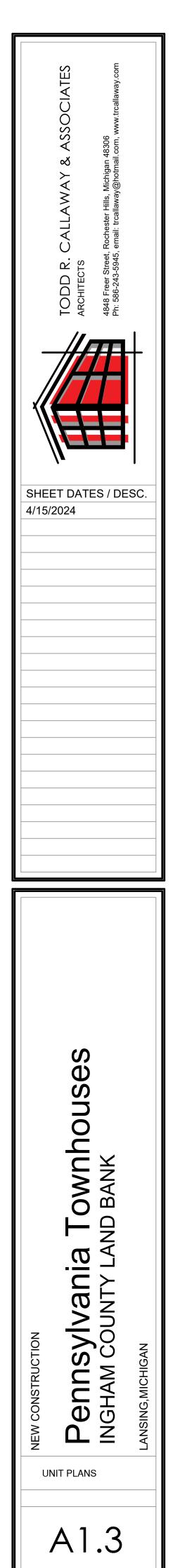
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- 7. INSTALL WD. BLOCKING IN ALL WALLS TO RECEIVE WALL HUNG ITEMS. 8. UTILIZE TEMPERED GLAZING AS REQUIRED TO MEET ALL LOCAL CODE COMPLIANCE ISSUES. WINDOW SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING TEMPERED WINDOW GLAZING IN THE APPROPRIATE AREAS.
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- 18. PROVIDE ADJUSTABLE SHELVES, HINGES, DRAWER PULLS AT ALL APPLICABLE LOCATIONS.
- 19. ALL RANGE EXHAUST HOODS SHALL EXHAUST DIRECTLY TO THE OUTSIDE U.N.O.

#### 20. INSTALL 'J' CHANNEL AT ALL WINDOWS. **PROJECT NOTES**

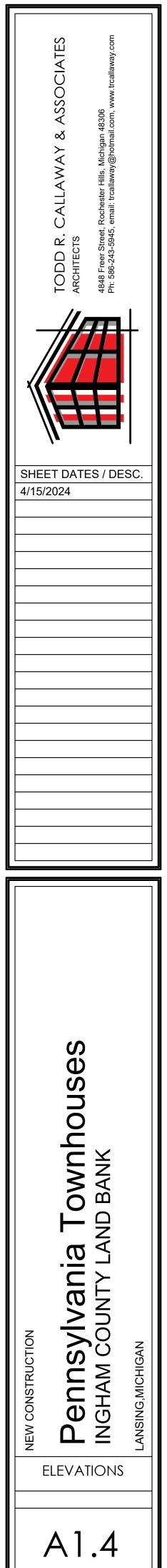
- A PREFABRICATED BASE CABINETS W/ SOLID SURFACE TOPS W/ BACK AND SIDE SPLASHES AS DIRECTED BY OWNER. INSTALL ALL APPLIANCES. SEE INTERIOR ELEVATIONS FOR MORE INFORMATION. PREFABRICATED SHOWER / TUB. INSTALL WATER RESISTANT GYP.
- $\langle B \rangle$ BRD. AT ALL AREAS WITHIN BATH ROOM AREA. INSTALL WOOD BLOCKING AT ALL AREAS REQUIRED FOR GRAB BARS AND OTHER WALL HUNG ITEMS. SEE INTERIOR ELEVATIONS FOR LOCATIONS. INSTALL DUROCK SUBSTRATE AT ALL TILED WALL AREAS.
- VINYL COATED METAL WIRE SHELVING WITH INTEGRAL HANGER WIRE. D INSTALL WOOD BLOCKING AT WALLS TO ACCOMMODATE WALL ITEMS. SEE INTERIOR ELEVATIONS FOR MORE INFORMATION. INSTALL WOOD BLOCKING AT WALLS TO ACCOMMODATE WALL HUNG
- $\langle E \rangle$  (3) I 6" VINYL COATED WIRE SHELVING.
- I G" VINYL COATED METAL WIRE SHELVING. WOOD STAIRS WITH WOOD HANDRAIL AT ONE SIDE OF STAIR.
- PREMANUFACTURED KITCHEN ISLAND.
- INSTALL SHOWER PAN DIRECTLY BENEATH WASHER. P.T. 6 X 6 WD. COLUMN WRAPPED WITH COMPOISTE TRIM. SEE
- $\overline{K}$  1.8" TOWEL BAR 48" A.F.F. INSTALL WD. BLOCKING.
- $\langle L \rangle$  125 AMP. 120/208 1PH. ELEC. PANEL. TIED TO INDIVIDUAL METER. UNVENTED DECORATIVE ALUM. CEILING W/ COMPOSITE TRIM AT PERIMETER.
- N ATTIC , SIDE. ATTIC ACCESS PANEL WITH 5/8" THK. FIRECODE GYP. BRD. AT BOTT.
- CARPETED STAIRS AND LANDING AREA AT BOTT.
- PREFERRED LOCATION FOR ELECTRIC METER.
- MTL. GRATE O/ TOP OF WINDOW WELL W/ EMERGENCY RELEASE. PAINTED PRE-MANUFACTURED WD. HANDRAIL.
- S NOT USED.
- T NOT USED.
- WALL MOUNTED FROST FREE SPIGOT W/ COLD WATER ONLY.

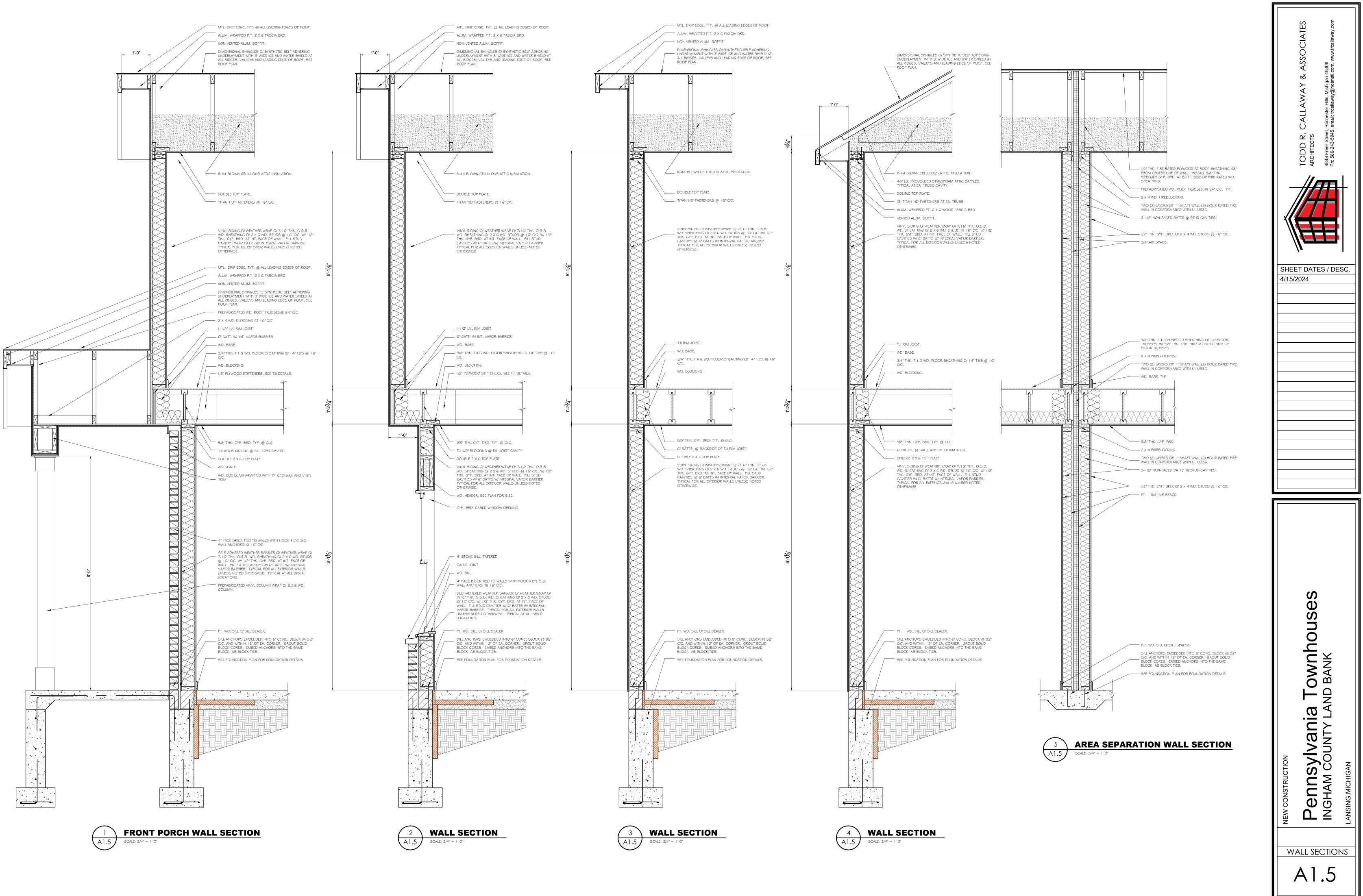
#### NOTE:

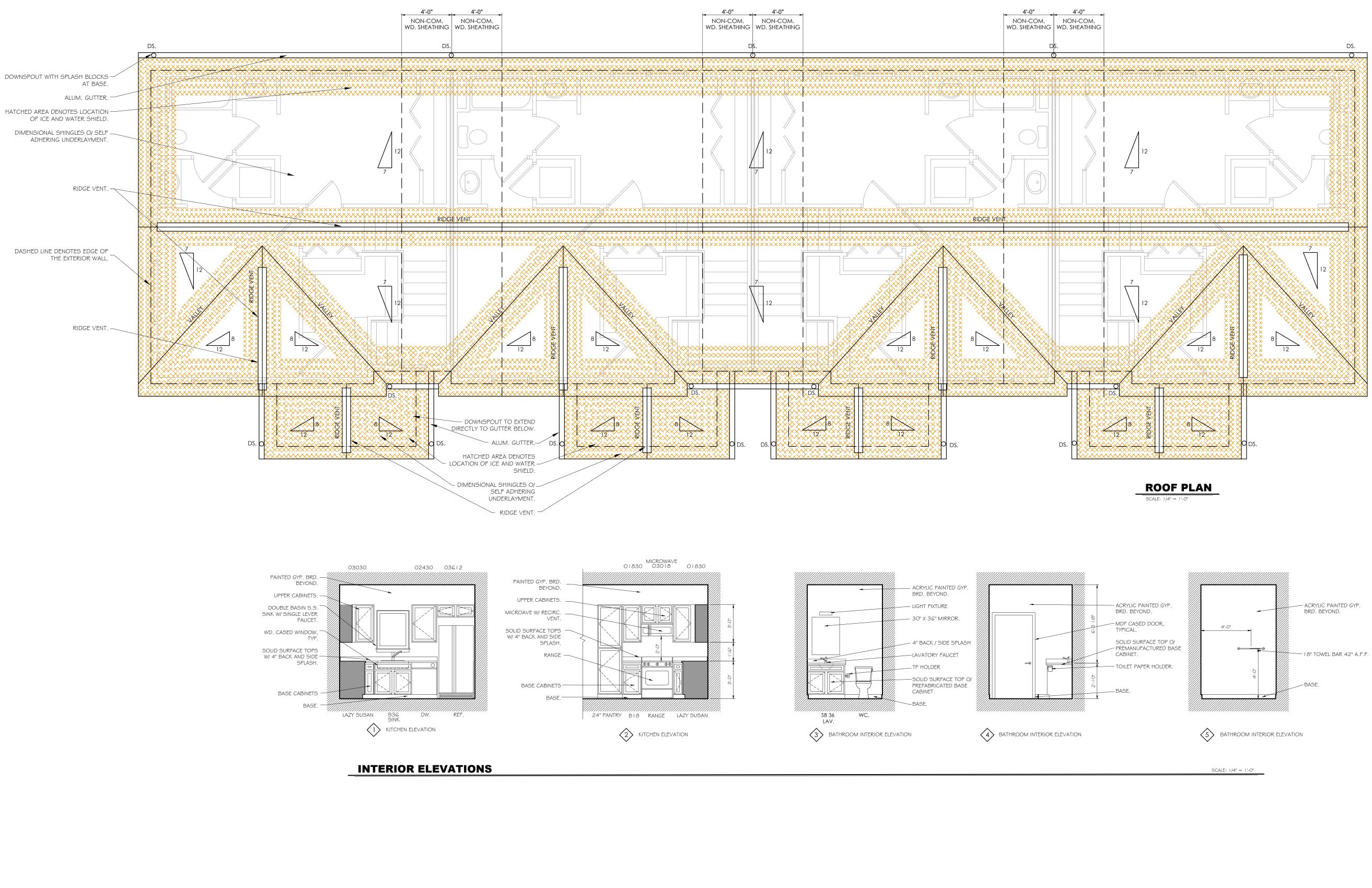
NOT ALL NOTES LISTED ABOVE MAY BE USED.

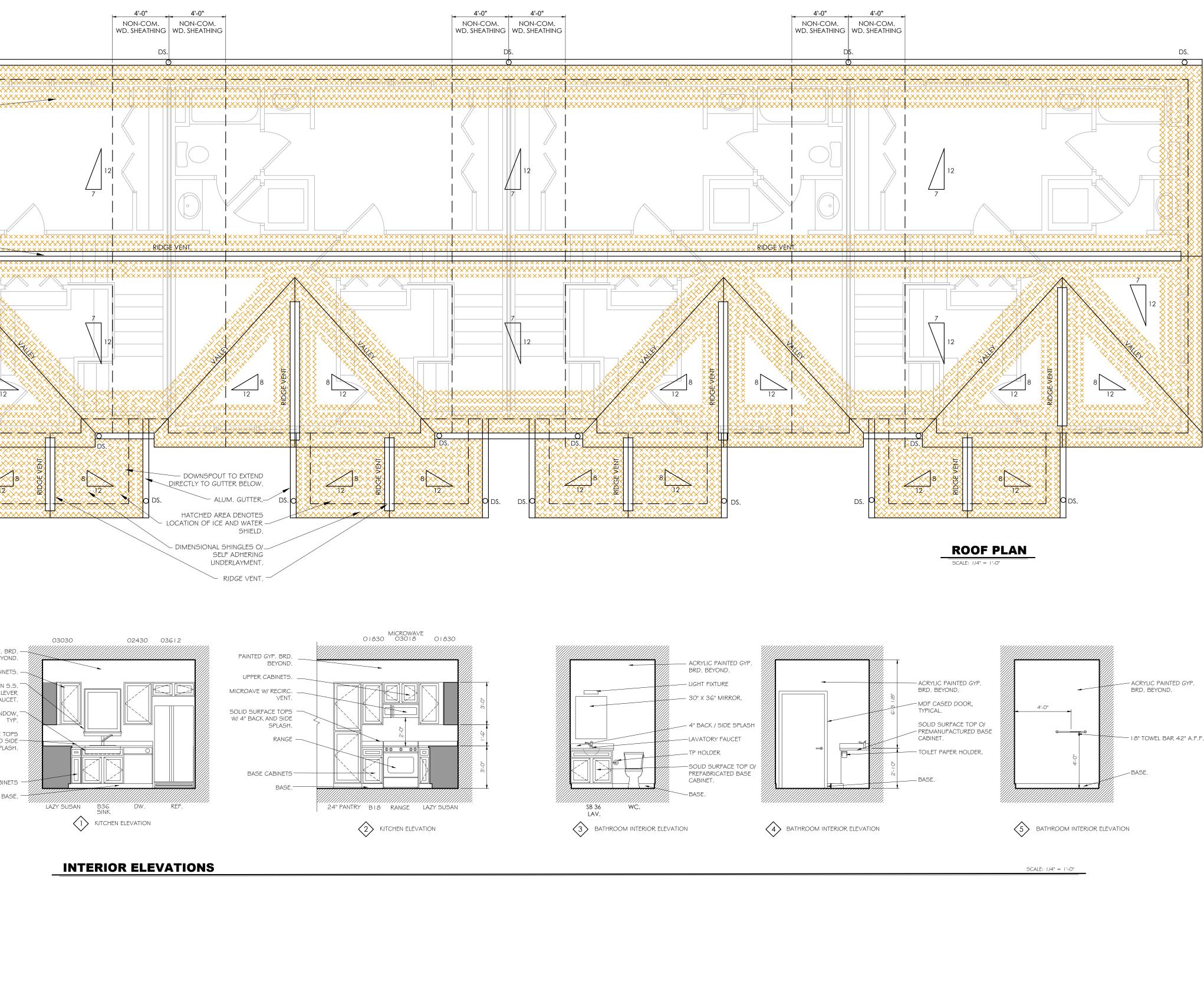


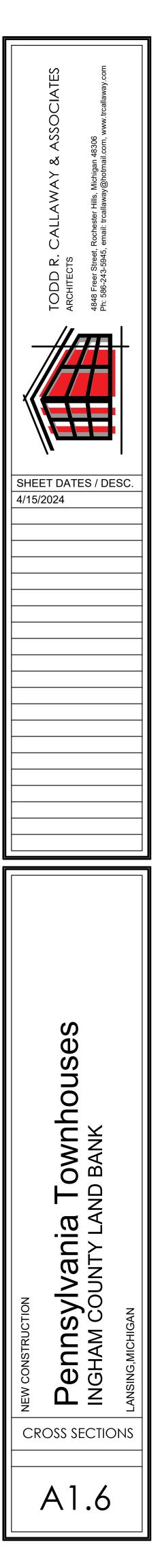


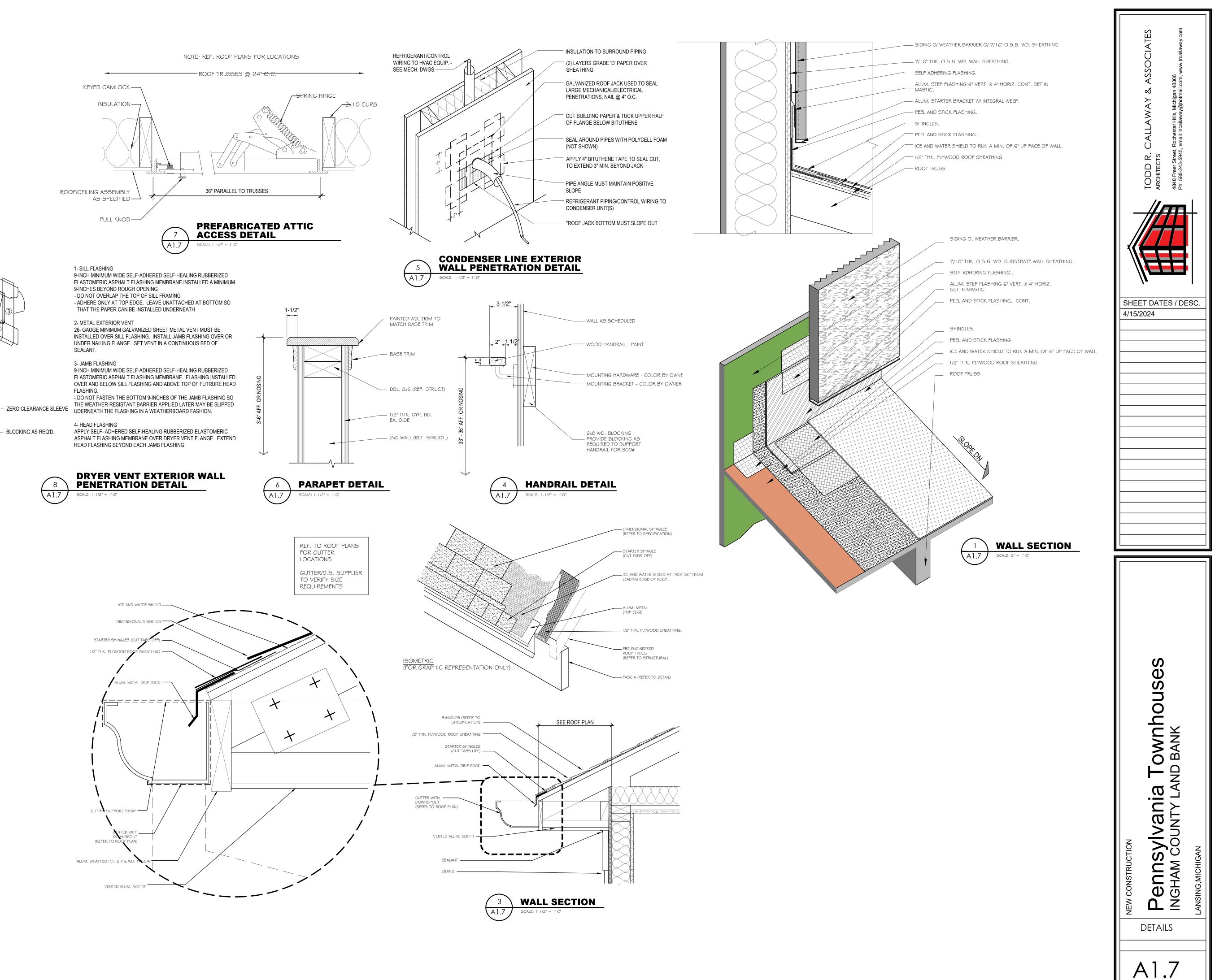


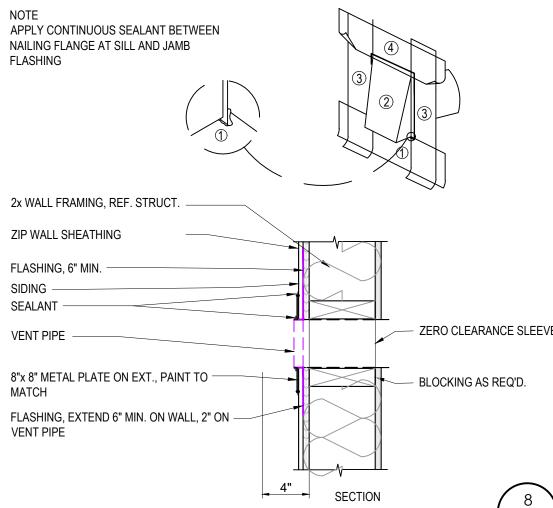




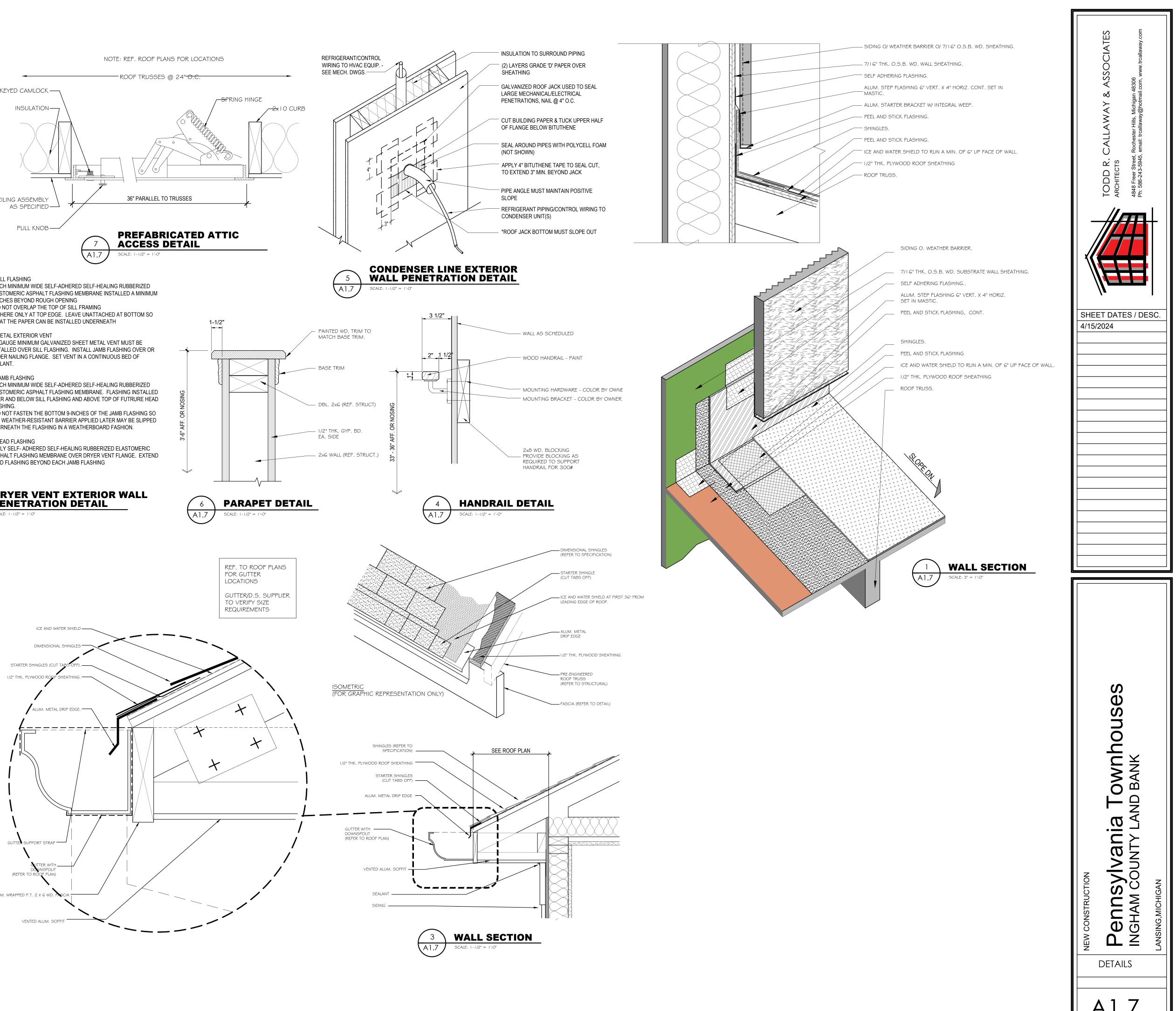


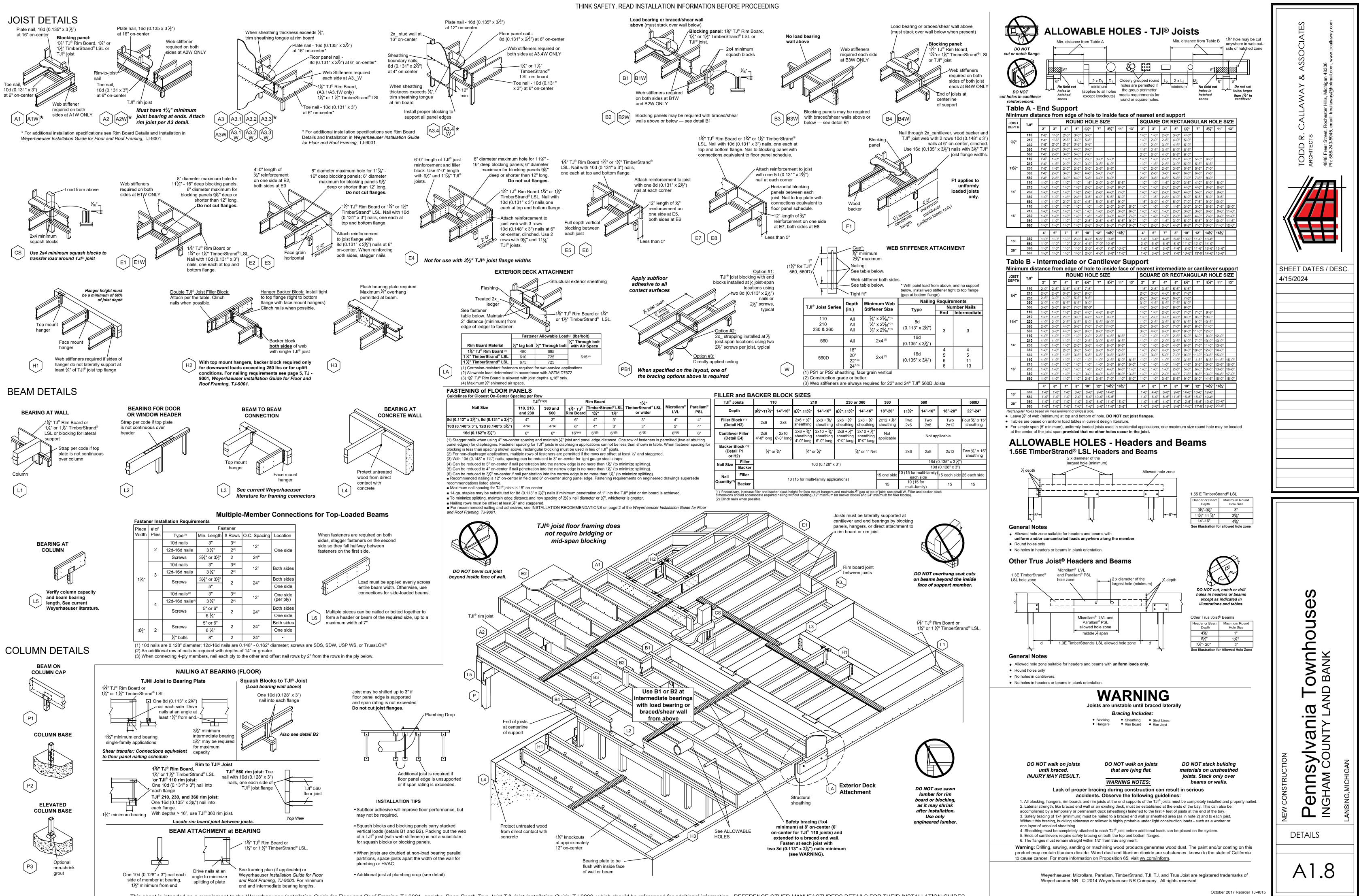












This sheet is intended as a supplement to the Weyerhaeuser Installation Guide for Floor and Roof Framing, TJ-9001, and the Deep Depth Trus Joist TJI Joist Installation Guide, TJ-9006, which should be referenced for additional information. REFERENCE OTHER MANUFACTURERS DETAILS FOR THEIR INSTALLATION GUIDES

## PLUMBING FIXTURE SCHEDULE:

- WC-1 KOHLER WELLWORTH # K-3978-TR, WHITE, VITREOUS CHINA, FLOOR MOUNT, TWO-PIECE, TANK TYPE, ELONGATED BOWL, 14 <sup>1</sup>/<sub>2</sub>" TO LIP, PRESSURE CLEAN ASSIST TECHNOLOGY, 1.6 GPF, KOHLER STRONHOLD # K-4731, SOLID PLASTIC SEAT, WHITE OPEN FRONT, NO COVER, HEAVY DUTY, ANTI-MICROBRIAL AGENT, SELF SUSTAINING CHECK HINGE, CHROME HANDLE,
- DROP-IN COUNTER TOP LAVATORY, 19x16 OVAL, WHITE VITREOUS CHINA, L-1 KOHLER PENNINGTON MODEL # K-2196, CHROME PLATED BRASS APPURTENANCES: FIXED GRATE STRAINER, DRAIN TAIL PIECES AND P-TRAP, COMMERCIAL GRADE ANGLE SUPPLY STOPS (LOOSE KEY), RIGID OR FLEXIBLE SUPPLIES. PROVIDE SINGLE LEVER, HI-RISE FAUCET, CHROME PLATED BRASS ASSE 1017 MIXING VALVE ON THE HOT WATER SIDE.
- DOUBLE COMPARTMENT, ADA COMPLIANT, SS DROP-IN SINK, ELKAY MODEL # S-1 LRAD332186S, 33 x 21 x 6 <sup>1</sup>/<sub>2</sub>" DEEP, TYPE 304 SS, HIGH SATIN FINISH, 18 GA, SOUND DEADENING MATERIAL BOTTOM AND ALL SIDES, 3  $\frac{1}{2}$ " DRAIN WITH DUO-BASKET STRAINER, ELKAY MODEL # LK800GN0814, HIGH RISE SWING SPOUT WITH LEVER HANDLE OPERATORS, UNDER SINK SUPPLIES AND TAIL PIECES DESCRIPTION SAME AS L-1.
- KOHLER ENTITY TUB SHOWER COMBINATION, RIGHT OR LEFT AS SHOWN ON TS-1 PLANS, 60x32, ACRYLIC, WITH BATH DRAIN, WHITE, DELTA CLASSIC TUB/SHOWER HARDWARE, INCLUDE TUB SPOUT WITH DIVERTER, SINGLE HANDLE WATER FLOW CONTROL VALVE WITH TEMPERATURE AND PRESSURE REGULATION. ADJUSTABLE SHOWER HEAD. ALL PIPE. VALVES AND FITTINGS. INCLUDE IMPERVIOUS MATERIAL ON ALL THREE WALLS OF FIXTURE ENCLOSURE, CHROME PLATED BRASS.

## PLUMBING EQUIPMENT SCHEDULE:

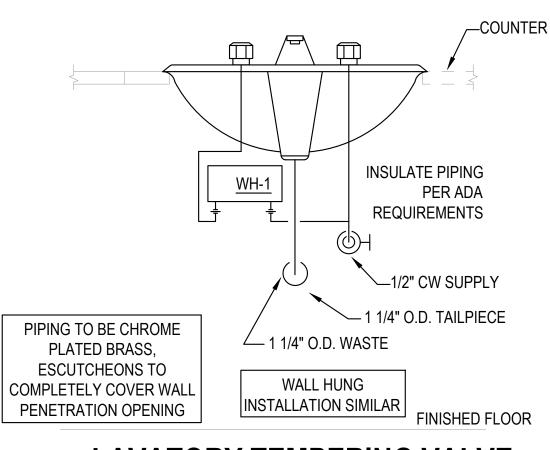
| <u>FD-1</u>  | ASME A112.21.1; LACQUERED CAST IRON TWO<br>DRAINAGE FLANGE, WEEP HOLES, REVERSIBL<br>INCH DIAMETER, ROUND, ADJUSTABLE NICKEI<br>PROVIDE TRAP PRIMER CONNECTION AT ALL<br>AND AS MAY BE REQUIRED BY CODE, WHETHI<br>NOT. |
|--------------|---|
| <u>EWH-1</u> | ELECTRIC WATER HEATER, 4.5 KW, 208V/1Ø, 4<br>VALVE WITH FULL SIZE DISCHARGE TO FLOOF<br>DRAIN PAN WITH MOISTURE ALARM SWITCH.   |
| <u>HB-1</u>  | FREEZE PROOF EXTERIOR HOSE BIB, EXTERIO<br>OPERATION.   |

### PLUMBING FIXTURE CONNECTIONS

| FIXTURE | W      | V     | HW   | CW   | REMARKS |
|---------|--------|-------|------|------|---------|
| WC      | 3"     | 1½"   |      | 1⁄2" |         |
| TS      | 2"     | 11/4" | 1/2" | 1⁄2" |         |
| LAV     | 11/4"  | 11/4" | 1⁄2" | 1⁄2" |         |
| SINK    | 1 1⁄2" | 11/4" | 1/2" | 1⁄2" |         |
|         |        |       |      |      |         |
|         |        |       |      |      |         |

ROUGH-IN TO EACH FIXTURE SHALL BE AS INDICATED ABOVE UNLESS SPECIFICALLY NOTED TO THE CONTRARY.

REFER TO THE ARCHITECTURAL PLANS FOR PLUMBING FIXTURE SPECIFICATIONS.



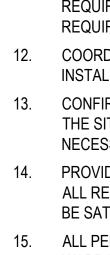


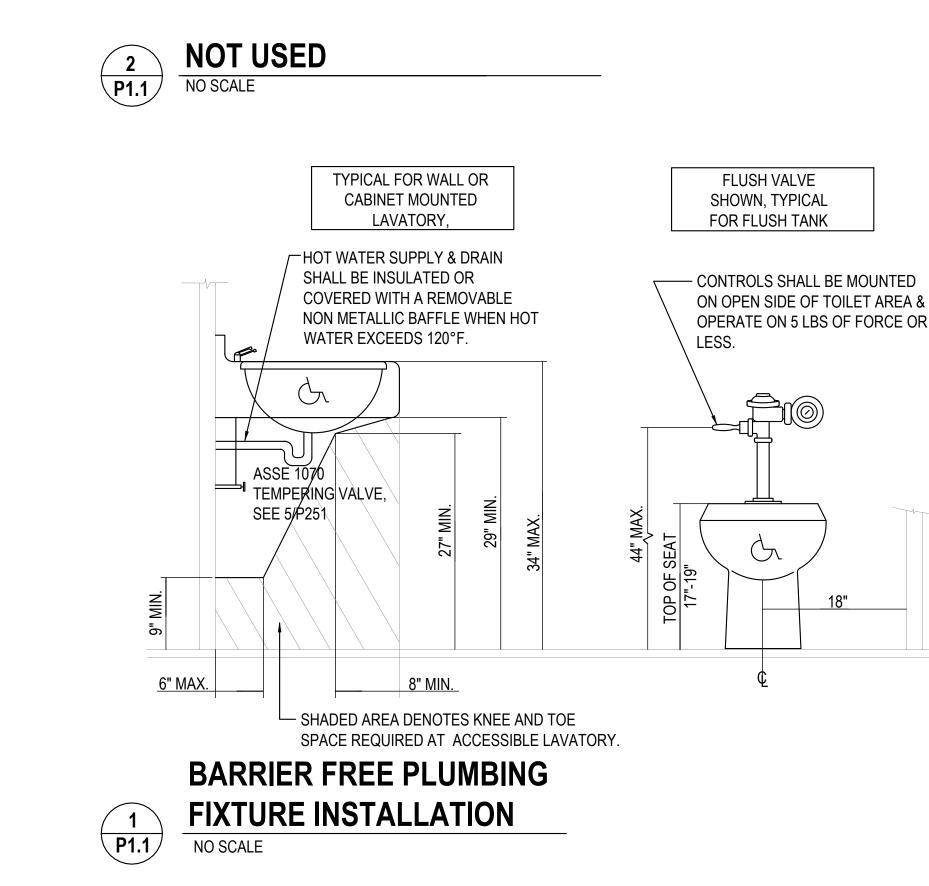
- O PIECE BODY WITH DOUBLE BLE CLAMPING COLLAR, AND 6 EL-BRONZE STRAINER. LOCATIONS SHOWN ON PLANS, HER SPECIFICALLY SHOWN, OR
- 40 GAL STORAGE, P/T RELIEF R DRAIN, MOUNT IN OVERFLOW
- RIOR WHEEL HANDLE

## LAVATORY TEMPERING VALVE INSTALLATION

# **GENERAL PLUMBING NOTES:**

- ALL SYSTEMS AND INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODE REQUIREMENTS. PLUMBING FOR THIS PROJECT IS GOVERNED BY THE 2015 MICHIGAN PLUMBING CODE. THE INSTALLING CONTRACTOR IS ASSUMED TO BE FAMILIAR WITH THIS CODE, AND IS HEREBY CHARGED WITH COMPLETING THE INSTALLATION OF THE SYSTEMS SHOWN HEREON IN COMPLETE COMPLIANCE WITH THIS CODE, AS WELL AS ALL OTHERS THAT MAY APPLY.
- ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE. AND ARE NOT INTENDED TO SHOW EVERY JOINT, FITTING, OR OFFSET THAT MAY BE REQUIRED TO PROPERLY COMPLETE THE SYSTEM. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH ALL TRADES, AND PROVIDE ALL FITTINGS, OFFSETS, AND RE-ROUTING AS MAY BE REQUIRED.
- THE COMPLETED INSTALLATION SHALL RESULT IN COMPLETE, 3 PROPERLY OPERATING SYSTEMS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AS A PART OF HIS BASE BID FOR THE PROJECT. THIS SHALL INCLUDE ALL REVIEW FEES THAT MAY BE CHARGED IN ORDER TO OBTAIN A PERMIT FOR CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL HORIZONTAL PORTIONS OF SYSTEMS SHOWN ARE INTENDED TO BE CONCEALED ABOVE CEILINGS, OR IN WALL CONSTRUCTION. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF THE BUILDING INSULATION. IN ALL CASES, THE WATER PIPING SHALL BE INSTALLED SO THE BUILDING INSULATION IS BETWEEN THE PIPING AND THE OUTSIDE. VERTICAL PORTIONS ARE INTENDED TO BE CONCEALED INSIDE WALLS OR CHASES.
- PROVIDE ROUGH-IN AND CONNECTION TO ALL FIXTURES AND EQUIPMENT. THE CONTRACTOR SHALL, BEFORE ROUGH-IN, CONFIRM THE DETAILED REQUIREMENTS OF EACH ITEM OF EQUIPMENT BEING PROVIDED.
- PENETRATIONS THROUGH FIRE AND/OR SMOKE BARRIERS SHALL BE SEALED TO MAINTAIN THE RATING OF THE BARRIER.
- 8. ALL DOMESTIC WATER PIPING ABOVE FLOOR TO BE TYPE "L" HARD COPPER WITH WROUGHT FITTINGS, AND 95/5 TIN ANTIMONY SOLDER. OR CODE APPROVED EQUAL, PROVIDE 1" THICK ARMACELL, OR EQUAL, INSULATION FOR ALL HOT AND COLD WATER PIPING.
- SANITARY PIPING ABOVE CEILINGS OF OCCUPIED SPACES TO 9 BE HUBLESS CAST IRON, UNDERGROUND IS PERMITTED TO BE PVC.
- 10. WASTE, AND VENT PIPING SHALL BE PVC WITH SOLVENT WELDED JOINTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE PLUMBING CODE.





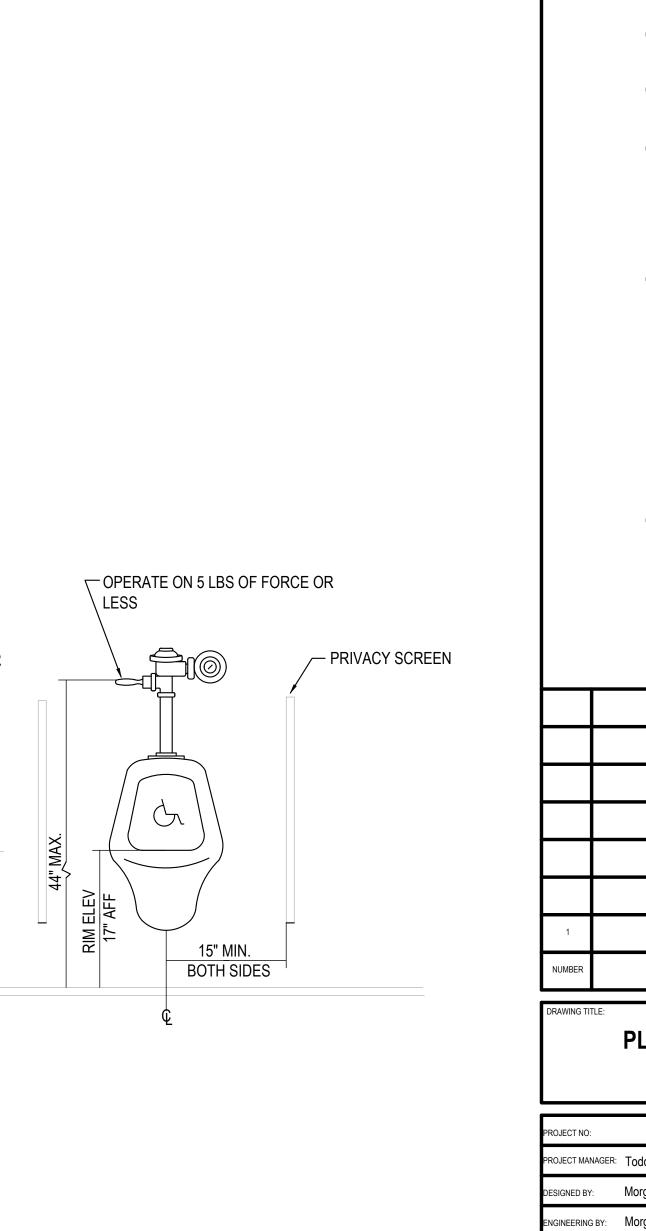
11. PROVIDE RPZ BACKFLOW PREVENTION AT ALL LOCATIONS REQUIRED BY AUTHORITY HAVING JURISDICTION. PROVIDE REQUIRED ACCESS TO SAME AS NECESSARY.

12. COORDINATE WORK WITH ALL OTHER TRADES BEFORE INSTALLATION TO ELIMINATE CONFLICTS.

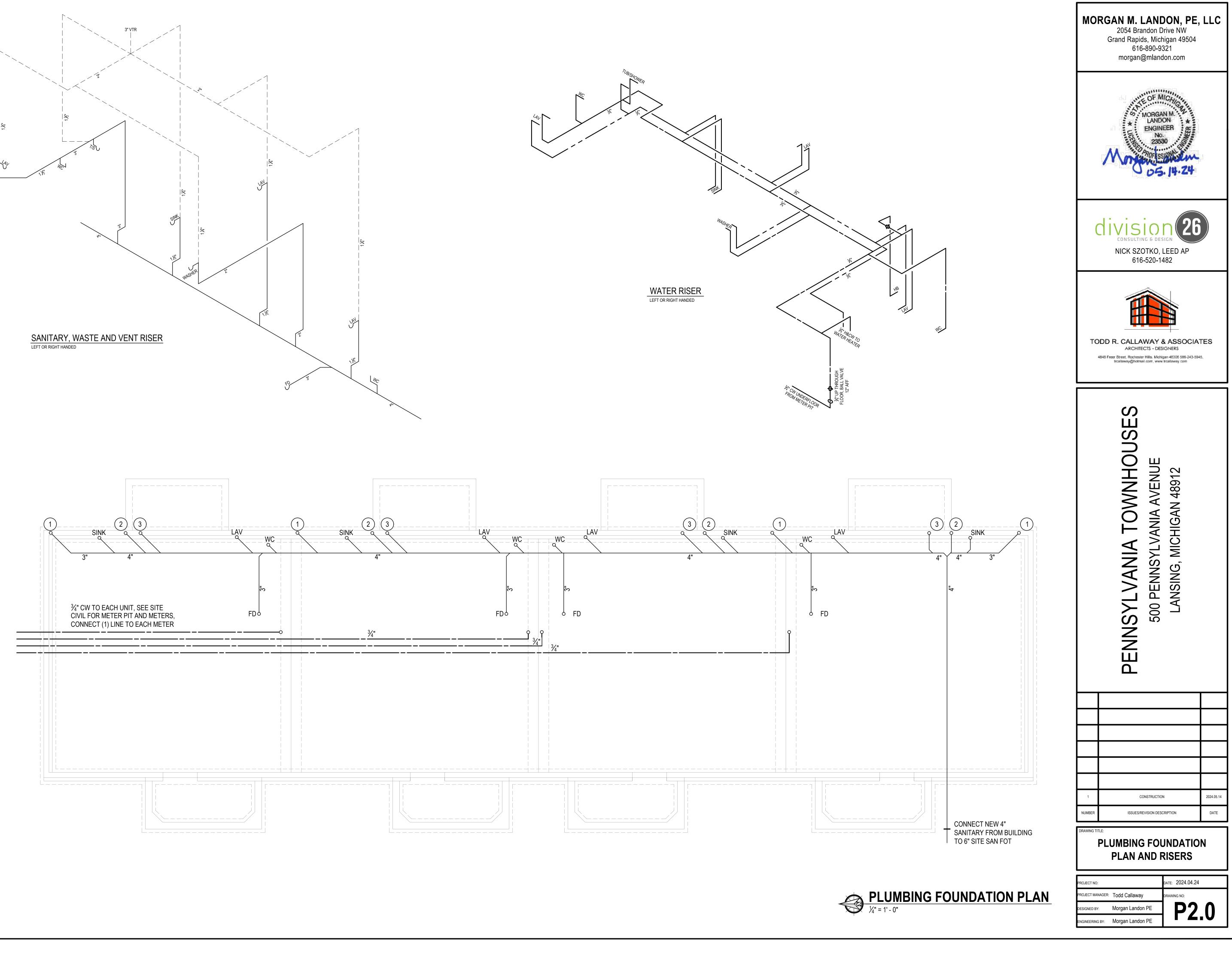
13. CONFIRM ALL INVERT ELEVATIONS OF SYSTEMS PROVIDED BY THE SITE CIVIL CONTRACTOR, ADJUST NEW PIPING LAYOUT AS NECESSARY TO MAKE CODE REQUIRED SLOPES.

14. PROVIDE DOCUMENTATION SHOWING PROPER COMPLETION OF ALL REQUIRED SYSTEM TESTS. THIS DOCUMENTATION SHALL BE SATISFACTORY TO THE AHJ.

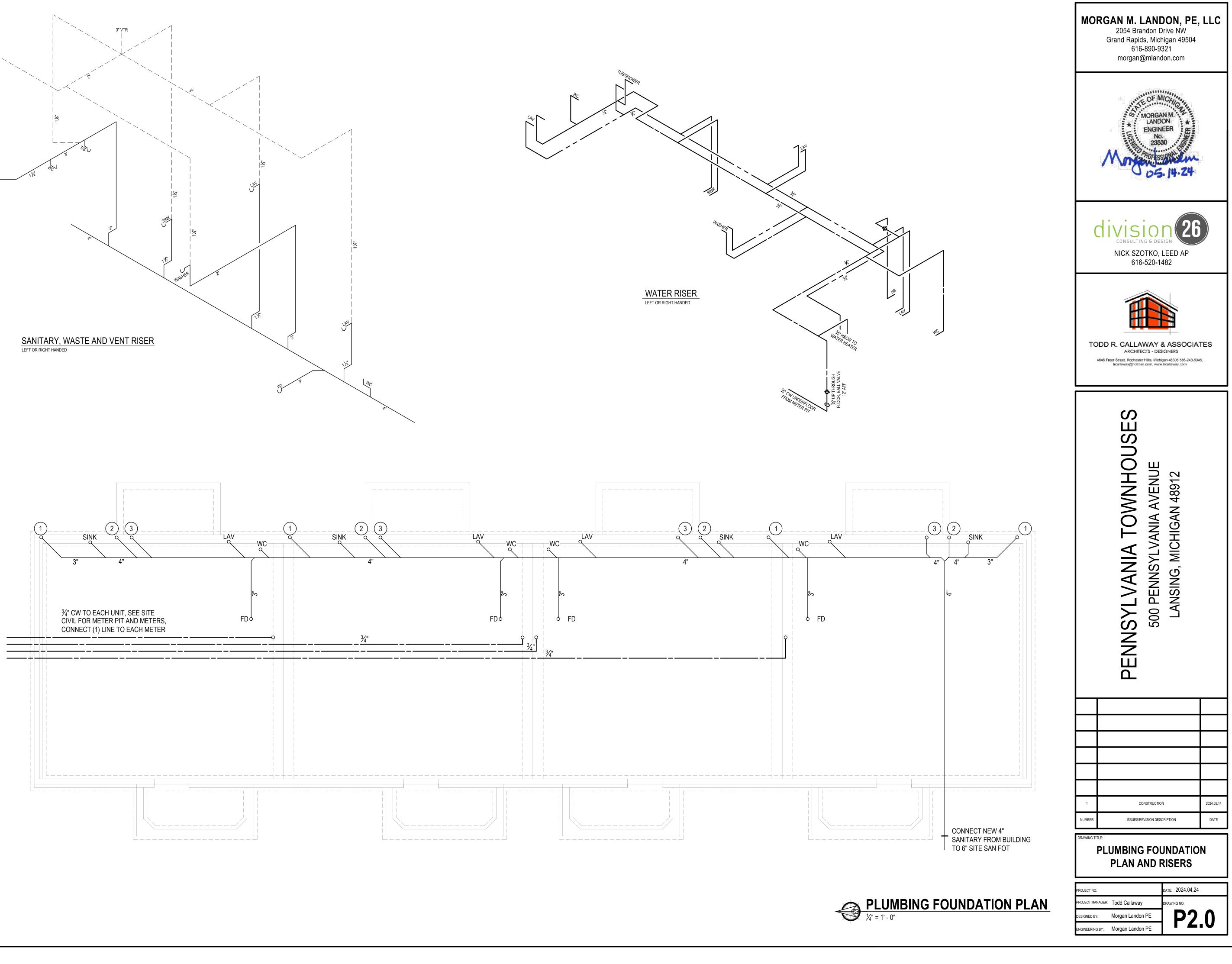
15. ALL PENETRATIONS THROUGH ROOF TO CONFORM TO ROOF WARRANTY REQUIREMENTS.



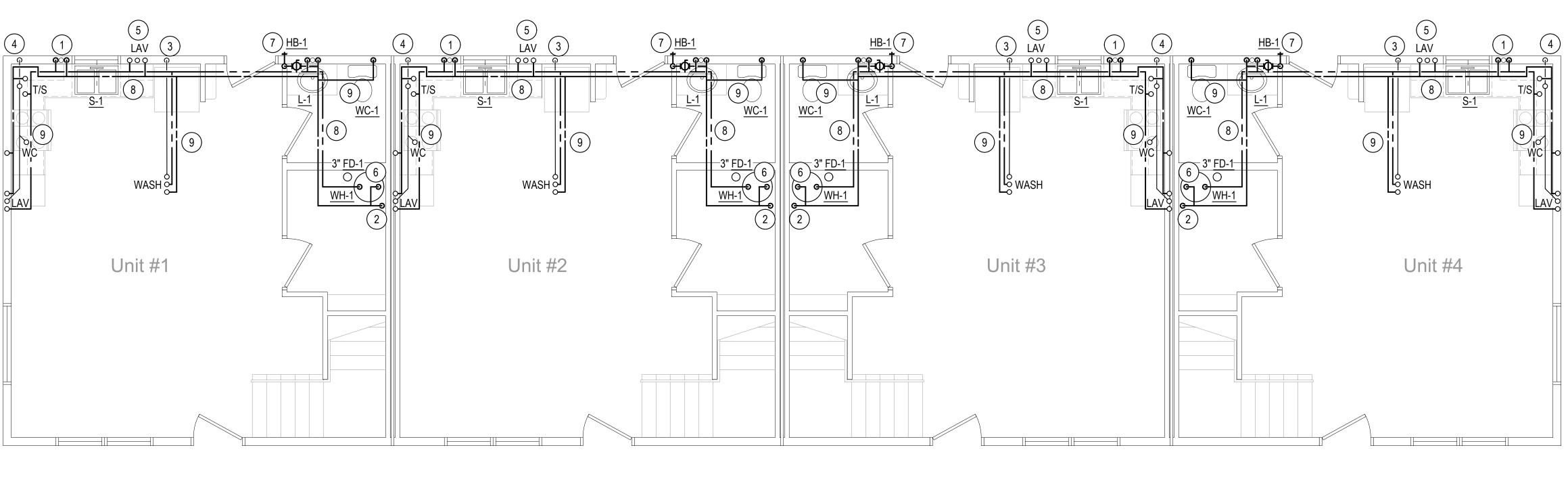
| MO  | <b>RGAN M. LANE</b><br>2054 Brandon D<br>Grand Rapids, Mich<br>616-890-93<br>morgan@mlanc  | orive NW<br>higan 49504<br>321 | LLC        |  |  |  |  |
|---|--|--------------------------------|------------|--|--|--|--|
|   | OF MICA<br>MORGAN M<br>LANDON<br>ENGINEER<br>NO<br>23530<br>9705 ISSUN   |                                |            |  |  |  |  |
| (   | NICK SZOTKO,<br>616-520-14   | LEED AP                        |            |  |  |  |  |
|   | TODD R. CALLAWAY & ASSOCIATES         ARCHITECTS - DESIGNERS         Wate Freer Street, Rochester Hills, Michigan 48306 586-243-5945, Ircallaway@hotmail.com, www.trcallaway.com |                                |            |  |  |  |  |
|   | PENNSYLVANIA TOWNHOUSES<br>500 PENNSYLVANIA AVENUE   | LANSING, MICHIGAN 48912        |            |  |  |  |  |
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| NUMBER  | ISSUES/REVISION DESC   | CRIPTION                       | DATE       |  |  |  |  |
| DRAWING TITLE:<br>PLUMBING NOTES<br>AND DETAILS |  |                                |            |  |  |  |  |
| PROJECT NO:                                     |  | DATE: 2024.04.24               |            |  |  |  |  |
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|   |  | <b>P1</b>                      | .          |  |  |  |  |

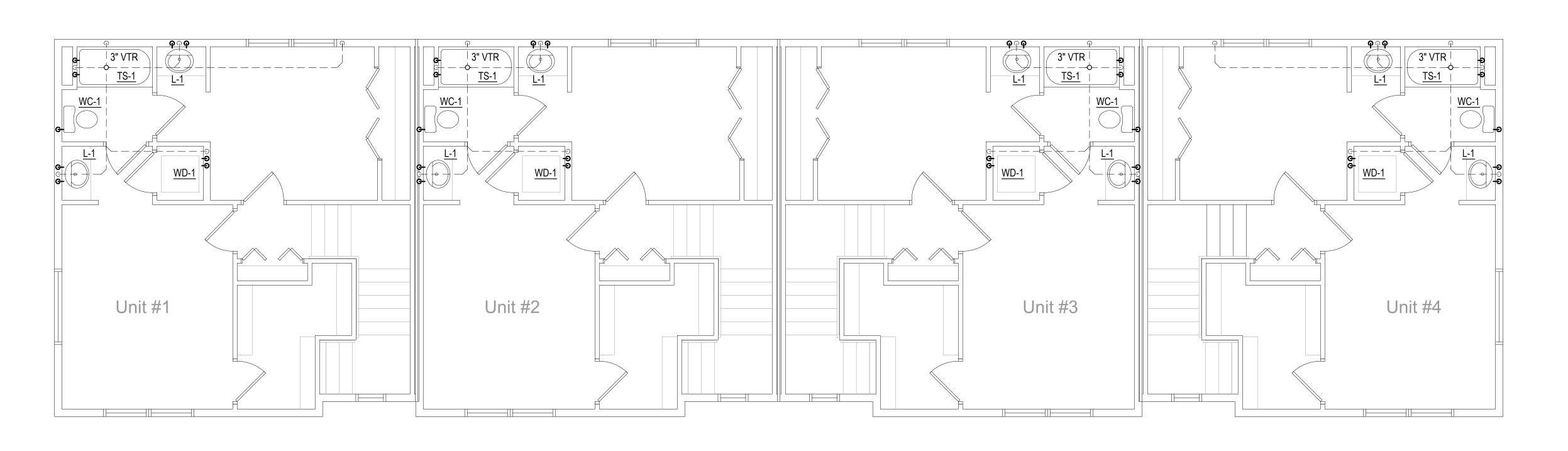






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## ○ KEYED NOTES - P2.1

- 1.  $\frac{1}{2}$ " H&CW DOWN, 1  $\frac{1}{4}$ " VENT UP TO SERVE SINK IN COUNTER BELOW WINDOW, OFFSET PIPING THROUGH STUDS TO AVOID WINDOW.
- 2. <sup>3</sup>/<sub>4</sub>" CW UP FROM BELOW FLOOR, SHUT-OFF BALL VALVE 12" AFF.
- 3. 2" WASTE FROM WASHER DOWN IN WALL.
- 4. 3" SANITARY DOWN IN WALL.
- 5.  $1\frac{1}{2}$ " WASTE DOWN IN WALL.





- 6.  $\frac{3}{4}$ " H&CW TO AND FROM WATER HEATER.
- 7.  $\frac{3}{4}$ " CW WITH BALL VALVE ABOVE CEILING (WITH ACCESS PANEL) DOWN TO HOSE BIB 24" ABOVE GRADE.
- 8. FOLLOW DUCT WORK INSIDE BULKHEAD. 9. PIPING BETWEEN OR THROUGH JOISTS AS NECESSARY TO SERVE FIXTURES.

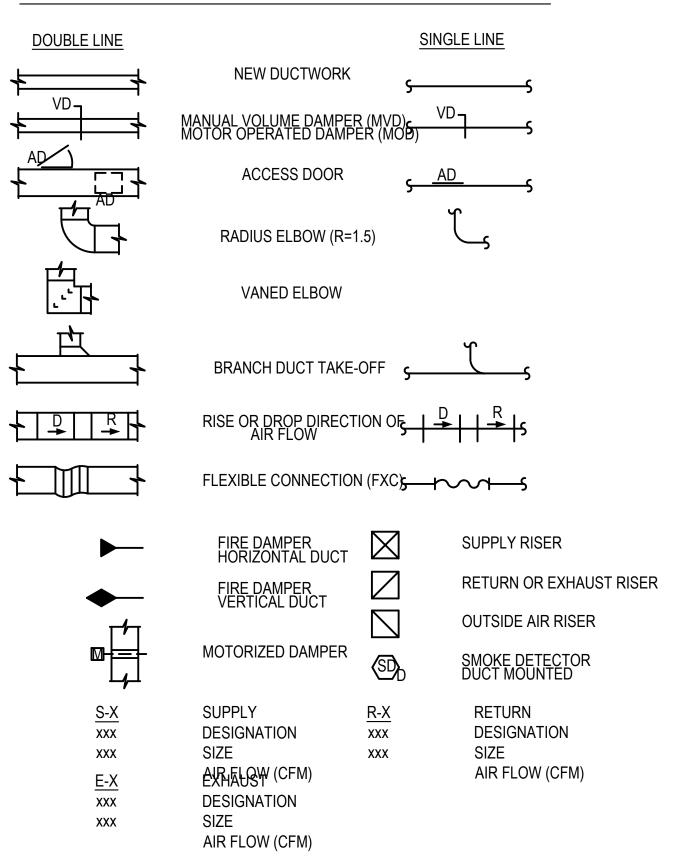






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|--|------------|--|--|--|
| OF MICA<br>MORGAN M<br>LANDON<br>ENGINEER<br>No<br>23530<br>9707 ssubber<br>05. 14. 24   | <u>_</u>   |  |  |  |
| CONSULTING & DESIGN 26<br>NICK SZOTKO, LEED AP<br>616-520-1482   |            |  |  |  |
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| PENNSYLVANIA TOWNHOUSES<br>500 PENNSYLVANIA AVENUE<br>LANSING, MICHIGAN 48912  |            |  |  |  |
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| NUMBER ISSUES/REVISION DESCRIPTION DRAWING TITLE:  | DATE       |  |  |  |
| DRAWING TITLE:<br>PLUMBING FLOOR PLANS   |            |  |  |  |
| PROJECT NO: DATE: 2024.04.24 PROJECT MANAGER: Todd Callaway DRAMING NO:  |            |  |  |  |
| PROJECT MANAGER:     Todd Callaway     DRAWING NO:       DESIGNED BY:     Morgan Landon PE     P22   | 1          |  |  |  |
| ENGINEERING BY: Morgan Landon PE   | • •        |  |  |  |

#### **DUCTWORK SYMBOLS**



## **MECHANICAL EQUIPMENT LIST**

<u>F-1</u> FC-1 NATURAL GAS FIRED VERTICAL FLOW HIGH EFFICIENCY FURNACE, NOMINAL 900 CFM,  $\frac{1}{2}$  HP BLOWER MOTOR, FC-2 120V/1Ø, 15A MOCP, MATCHING CASED COOLING COIL, FC-3 NOMINAL 2-TON COOLING, MATCH TO CU-1.

- <u>CU-1</u> AIR COOLED CONDENSING UNIT, NOMINAL 2-TON COOLING CAPACITY, 13 SEER2, R-410A, MOUNT ON LEVEL **3" HIGH PLASTIC EQUIPMENT SUPPORT PAD, RUN** REFRIGERANT PIPING TO COOLING COIL AT F-1, SIZE AND ROUTE PER MANUFACTURERS REQUIREMENTS, 208V/1Ø, 12 MCA, 20A MOCP. <u>EF-1</u>
  - CEILING EXHAUST FAN, SUPER QUIET, 80 CFM, 120V/1Ø, SEPARATE SWITCH.
  - SAME AS EF-1 WITH 15W LED LIGHT INCLUDED.

12x6 FLOOR OR CEILING SUPPLY AIR REGISTER, DOUBLE DEFLECTION, STEEL, COLOR PER ARCHITECT, ADJUST REGISTER FROM FACE.

10x4, SAME AS S-1.

<u>EFL-1</u>

<u>S-1</u>

<u>S-2</u>

<u>S-3</u>

<u>S-4</u>

R-1

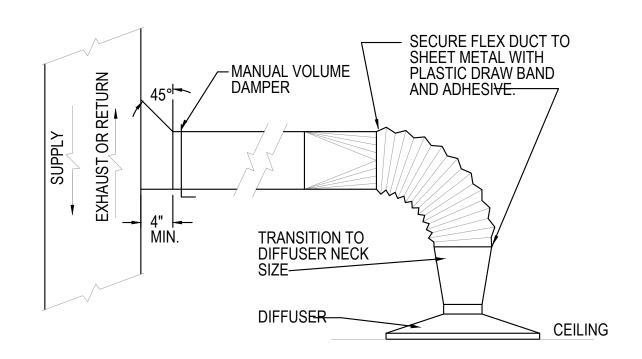
<u>TG-1</u>

10x4 WALL REGISTER, STEEL, COLOR PER ARCHITECT, ADJUST REGISTER FROM FACE. MOUNT BOTTOM OF REGISTER JUST ABOVE ARCHITECTURAL BASE.

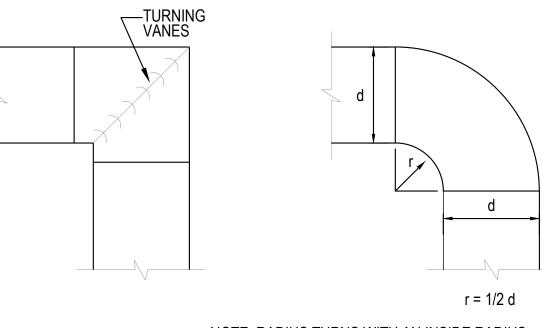
14x6, SAME AS S-1.

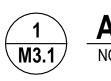
30x10, FIXED BLADE GRILLE, 35°, <sup>3</sup>/<sub>4</sub>" SPACING, STEEL, OFF-WHITE, MOUNT INVERTED ABOVE DOOR.

14x8, FIXED BLADE GRILLE, 35°, <sup>3</sup>/<sub>4</sub>" SPACING, STEEL, OFF-WHITE, FULL SIZE PLENUM THROUGH WALL, SEE PLAN FOR CONNECTED DUCT SIZE.









# **GENERAL MECHANICAL NOTES:**

- ALL SYSTEMS AND INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODE REQUIREMENTS. THE PRIMARY CODE IN THIS JURISDICTION IS THE 2015 MICHIGAN MECHANICAL CODE. THE CONTRACTOR IS ASSUMED TO BE FAMILIAR WITH THIS, AND ALL OTHER CODES APPLICABLE TO THIS PROJECT.
- ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND ARE NOT 2. INTENDED TO SHOW EVERY JOINT, FITTING, OR OFFSET THAT MAY BE REQUIRED TO PROPERLY COMPLETE THE SYSTEM. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH ALL TRADES, AND PROVIDE ALL FITTINGS, OFFSETS, AND RE-ROUTING AS MAY BE REQUIRED.
- 3. THE FINISHED INSTALLATION SHALL RESULT IN COMPLETE, PROPERLY OPERATING SYSTEMS.
- 4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AS A PART OF HIS BASE BID FOR THE PROJECT.
- DEMONSTRATE THE PROPER OPERATION OF ALL MECHANICAL 5. EQUIPMENT AND SYSTEMS TO THE OWNER'S SATISFACTION.
- PROVIDE ROUGH-IN AND CONNECTION TO ALL FIXTURES AND 6 EQUIPMENT.
- NATURAL GAS PIPING SHALL BE STEEL. INSTALLATION SHALL 7. CONFORM TO THE 2015 MICHIGAN FUEL GAS CODE. PAINT ALL GAS PIPING BRIGHT YELLOW AND MARK REGARDING CONTENTS AND DIRECTION OF FLOW.
- 8. ALL DUCTWORK TO BE SHEET METAL AND CONFROM TO SMACNA INSTALLATION REQUIREMENTS.
- ALL DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS. 9.
- 10. INSULATE CONCEALED SUPPLY AIR DUCTS WITH 1<sup>1</sup>/<sub>2</sub>" FIBERGLASS BLANKET.
- 11. INSULATE OUTSIDE AIR INTAKE DUCT FROM INLET TO MOTORIZED DAMPER WITH 1 1/3" FIBERGLASS BLANKET.
- 12. INSULATE EXHAUST AIR DUCTS FROM EXHAUST CAP TO BACKDRAFT DAMPER AT FAN WITH 1 1/3" FIBERGLASS BLANKET.

## **TYPICAL DUCT TAKE-OFF** AND DIFFUSER CONNECTION

NO SCALE

NOTE: RADIUS TURNS WITH AN INSIDE RADIUS OF LESS THAN 1/2 d ARE NOT ACCEPTABLE.

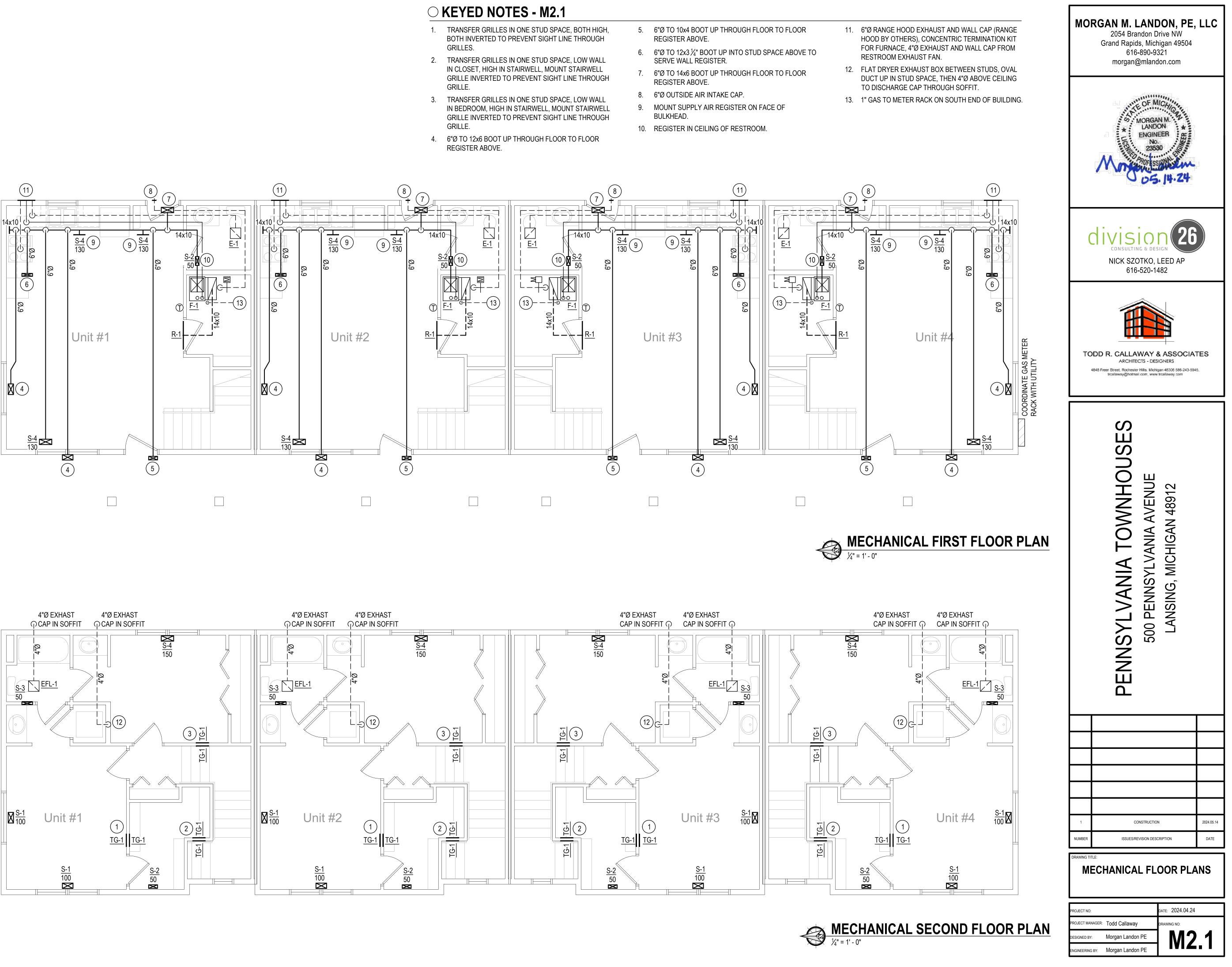


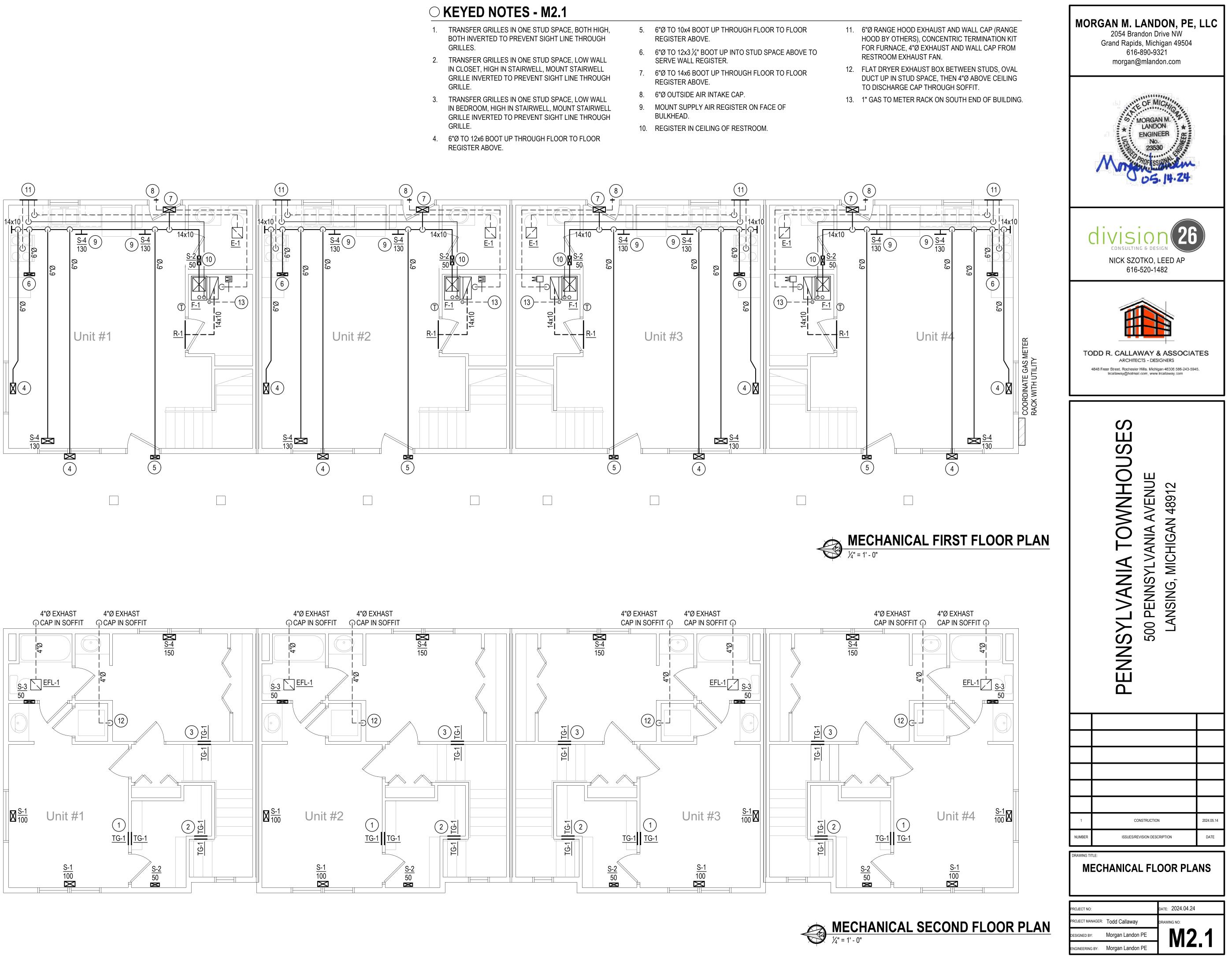
NO SCALE

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|---|--|--|--|--|--|--|--|--|
| morgan@mlandon.com  |  |  |  |  |  |  |  |  |
| CONSULTING & DESIGN (26)<br>NICK SZOTKO, LEED AP<br>616-520-1482  |  |  |  |  |  |  |  |  |
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**MECHANICAL NOTES** AND DETAILS

| PROJECT NO:      |                  | date: 2024.04.24 |
|------------------|------------------|------------------|
| PROJECT MANAGER: | Todd Callaway    | DRAWING NO:      |
| DESIGNED BY:     | Morgan Landon PE | M1 1             |
| ENGINEERING BY:  | Morgan Landon PE |                  |





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|       | SYMBOL DE  | SCRIPT   | ION   |   |  |   | SY  | MBOL   | DESCRIPTION  |   |
|       |  |  | d duplex<br>)n; numbe   |   |  | (NEMA 5-20R); MOUNTED<br>SIRCUIT.   | 4   | ₽  | GROUNDED QUADRUPLEX RECEP<br>MOUNTED 18" AFF UON.  | TACLE (NEMA 5-15R);   |
|       |  |  | D DUPLEX  |   |  | (NEMA 5-15R);   | ŧ   | )  | 240 VOLT RECEPTACLE, COORDIN   | ATE WITH EQUIPMEN   |
|       | <u></u>  |  | D DUPLEX<br>48" AFF   | RECEPTA   | ACLE (   | (NEMA 5-15R)  |   |  |  |   |
|       | DA DA  | TA OUT   | LET BOX, S  | SEE NOTE  | 1  |   |   |  | GROUNDED SINGLE FLOOR RECEP  | · · · ·   |
|       | С ТН   | REE PH   | ASE MOTO  | R   |  |   |   | $\overrightarrow{B}_{7}^{X}$   | ELECTRICAL FLOOR BOX, SEE NOT  | TE 2  |
|       | SD SM  | OKE DE   | TECTOR  |   |  |   |   |  | WIRELESS ACCESS POINT IN CEILI   | NG  |
|       |  | ECIAL C  | ONNECTIO  | DN  |  |   |   |  | COMBINATION SMOKE / CO2 DETEC  | CTOR  |
|       | _  | WER PA   | NEL   |   |  |   |   | У<br>Г1 ]  | TRANSFORMER, SEE SCHEDULE  |   |
|       | COUNT OF CAT 6 C<br>PATCH PANEL, CON<br>OUTGOING SIDE OF<br>FROM HIS EQUIPME   | ITRACT<br>PATCH  | OR TO TEF<br>I PANEL, C   | RMINATE (<br>WNER TO  | ON   |   |   | SPAC<br>OUT<br>POSS  | ONDUIT TO ACCESSIBLE<br>CE, WHERE NO CEILING, TURN<br>OF WALL AS HIGH AS<br>SIBLE, PROVIDE BUSHING TO<br>/ENT CHAFING WIRE   |   |
| •     | NEL A 500 PENNSYLVANIA   | ТОМ  | NHOME   | S   |  |   |   | STAN   | A RECEPTACLES IN<br>NDARD SINGLE GANG<br>ER PLATE, BY EC   |   |
|       | <b>NEL A 500 PENNSYLVANIA</b><br>240-120 Volt / 1 Phase / 3 Wire   | το   | NHOME   | S   |  | LOCATION: MECH/ELEC ROO<br>SHEET NUMBER: E201<br>MOUNTING: RECESSED   |   | STAN   | IDARD SINGLE GANG  |   |
|       |  | BA<br>20<br>20<br>25   | VA1<br>1200<br>600<br>2250<br>200   | VA2<br>400<br>400<br>2250   | BA<br>20<br>20<br>20   | SHEET NUMBER: E201<br>MOUNTING: RECESSED  | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES   | STAN<br>COVI   | IDARD SINGLE GANG  | 3,180   |
|       | 240-120 Volt / 1 Phase / 3 Wire<br>DESCRIPTION<br>1<br>RECEPTACLES, BATHROOMS<br>WH-1  | BA<br>20<br>20   | VA1<br>1200<br>600<br>2250  | VA2<br>400<br>400<br>2250<br>200<br>4800                          | 20<br>20<br>20<br>20<br>20<br>20   | SHEET NUMBER: E201<br>MOUNTING: RECESSED  | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES   | STAN<br>COVI   | DARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS  | 3,000   |
|       | 240-120 Volt / 1 Phase / 3 Wire<br>DESCRIPTION<br>F-1<br>RECEPTACLES, BATHROOMS<br>WH-1<br>RANGE   | BA<br>20<br>20<br>25<br>50   | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>2900   | VA2<br>400<br>400<br>2250<br>200                                  | 20<br>20<br>20<br>20   | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC                                | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES                            | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12   | NDARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS   |   |
| E F F | 240-120 Volt / 1 Phase / 3 Wire<br>DESCRIPTION<br>F-1<br>RECEPTACLES, BATHROOMS<br>WH-1<br>RANGE   | BA<br>20<br>20<br>25   | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>2900<br>800  | VA2<br>400<br>400<br>2250<br>200<br>4800                          | 20<br>20<br>20<br>20<br>20<br>20<br>20   | SHEET NUMBER: E201<br>MOUNTING: RECESSED  | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES                            | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14   | DARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT   | 3,000<br>1,500  |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM                                    | BA<br>20<br>20<br>25<br>50<br>30<br>20   | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>2900   | VA2<br>400<br>400<br>2250<br>200<br>4800<br>1200<br>2900          | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                                     | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES                            | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18                               | DARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE   | 3,000<br>1,500<br>4,500<br>4,800<br>5,000   |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM LIGHTING                           | BA<br>20<br>20<br>25<br>50<br>30<br>20<br>20   | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>1000<br>1300   | VA2<br>400<br>2250<br>200<br>4800<br>1200<br>2900                 | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>25                   | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>ECEPTACLES | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20                         | ADARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE<br>MICROWAVE                                   | 3,000<br>1,500<br>4,500<br>4,800<br>5,000<br>1,500                                    |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION F-1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM LIGHTING                        | BA<br>20<br>20<br>25<br>50<br>30<br>20<br>20<br>20<br>20   | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>2900<br>800<br>1000  | VA2<br>400<br>400<br>2250<br>200<br>4800<br>1200<br>2900<br>1000  | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>25<br>20                   | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>ECEPTACLES | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22                   | ADARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE<br>MICROWAVE<br>FURNACE FAN                    | 3,000<br>1,500<br>4,500<br>4,800<br>5,000<br>1,500<br>1,200                           |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION F-1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM LIGHTING                        | BA<br>20<br>20<br>25<br>50<br>30<br>20<br>20   | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>1000<br>1300   | VA2<br>400<br>400<br>2250<br>200<br>4800<br>1200<br>2900<br>1000  | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>25                   | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>ECEPTACLES | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20                         | ADARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE<br>MICROWAVE                                   | 3,000<br>1,500<br>4,500<br>4,800<br>5,000<br>1,500                                    |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION F-1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM LIGHTING                        | BA<br>20<br>20<br>25<br>50<br>30<br>20<br>20<br>20<br>20<br>20   | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>1000<br>1300   | VA2<br>400<br>400<br>2250<br>200<br>4800<br>1200<br>2900<br>1000  | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20       | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>ECEPTACLES | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24             | ADARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE<br>MICROWAVE<br>FURNACE FAN                    | 3,000<br>1,500<br>4,500<br>4,800<br>5,000<br>1,500<br>1,200                           |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM IGHTING RECEPTACLES, RESTROOMS     | BA<br>20<br>20<br>25<br>50<br>30<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>2900<br>800<br>1000<br>1300<br>600<br>1300<br>1000<br>1300<br>1000<br>1300<br>1000<br>1300 | VA2<br>400<br>2250<br>200<br>4800<br>1200<br>2900<br>1000<br>1300 | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2  | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>ECEPTACLES | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>26       | VDARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE<br>MICROWAVE<br>FURNACE FAN<br>CONDENSING UNIT | 3,000<br>1,500<br>4,500<br>4,800<br>5,000<br>1,500<br>1,200<br>2,500                  |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION F-1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM LIGHTING                        | BA<br>20<br>20<br>25<br>50<br>30<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>1000<br>1300   | VA2<br>400<br>400<br>2250<br>200<br>4800<br>1200<br>2900<br>1000  | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>25<br>20<br>20<br>20<br>20<br>20 | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>ECEPTACLES | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>26<br>28 | NDARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE<br>MICROWAVE<br>FURNACE FAN<br>CONDENSING UNIT | 3,000<br>1,500<br>4,500<br>4,800<br>5,000<br>1,500<br>1,200<br>2,500<br><b>27,180</b> |
|       | 240-120 Volt / 1 Phase / 3 Wire DESCRIPTION F-1 RECEPTACLES, BATHROOMS WH-1 RANGE DRYER RECEPTACLES, BEDROOM LIGHTING RECEPTACLES, RESTROOMS | BA<br>20<br>20<br>25<br>50<br>30<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | VA1<br>1200<br>600<br>2250<br>200<br>4800<br>1000<br>2900<br>800<br>1000<br>1300<br>600<br>1300<br>1000<br>1300<br>1000<br>1300<br>1000<br>1300 | VA2<br>400<br>2250<br>200<br>4800<br>1200<br>2900<br>1000<br>1300 | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>25<br>20<br>20<br>20<br>20<br>20 | SHEET NUMBER: E201<br>MOUNTING: RECESSED<br>DE<br>SMALL APPLIAN<br>SMALL APPLIAN<br>KITCHEN REC<br>KITCHEN REC<br>LIVING, REC<br>BEDROOM, REC | ESCRIPTION<br>ICE CIRCUIT<br>ICE CIRCUIT<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>CEPTACLES<br>ECEPTACLES | STAN<br>COVI<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>26<br>28 | NDARD SINGLE GANG<br>ER PLATE, BY EC<br>CALCULATED LOAD<br>LIGHTING<br>1,060 SQ FT x 3VA/SF =<br>GENERAL LOADS<br>(2) SMALL APPLIANCE CIRCUITS<br>(1) LAUNDRY CIRCUIT<br>WATER HEATER<br>DRYER<br>RANGE<br>MICROWAVE<br>FURNACE FAN<br>CONDENSING UNIT | 3,000<br>1,500<br>4,500<br>4,800<br>5,000<br>1,500<br>1,200<br>2,500<br><b>27,180</b> |

#### IGHT FIXTURE SCHEDULE

| IGHT FIATURE SCHEDULE |                           |  |         |         |  |  |  |
|-----------------------|---------------------------|--|---------|---------|--|--|--|
| TYPE                  | DESCRIPTION               | CATALOG NUMBER (LITHONIA UON)              | LAMPS   | REMARKS |  |  |  |
| A                     | SURFACE DISC              | WAC LIGHTING 6"Ø 3000K 1100 LMN            | 15W LED |         |  |  |  |
| 3                     | WALL MOUNTED VANITY LIGHT | FMVCCLS 24" MVOLT SWITCHABLE 90 CRI BN M6  | 27W LED |         |  |  |  |
| 31                    | WALL MOUNTED VANITY LIGHT | RALBAY MID CENTURY MODERN, (3) G9 BULBS    | 30W LED |         |  |  |  |
| ;                     | 4 FT SURFACE STRIP        | CSS L48 4KLM MVOLT 40K 80 CRI              | 36W LED |         |  |  |  |
| )                     | WALL SCONCE               | WESTINGHOUSE WINSLETT 6579000 700 LMN 30K  | 12W LED |         |  |  |  |
|                       | SURFACE DISC              | WAC LIGHTING FM OBRN 5"Ø 3000K 1050 LMN BK | 12W LED |         |  |  |  |
|                       | CEILING FAN/LIGHT         | HUNTER SWANSON 44" LED BOWL LIGHT WHITE    | 20W LED |         |  |  |  |
|                       |                           |  |         |         |  |  |  |
|                       |                           |  |         |         |  |  |  |

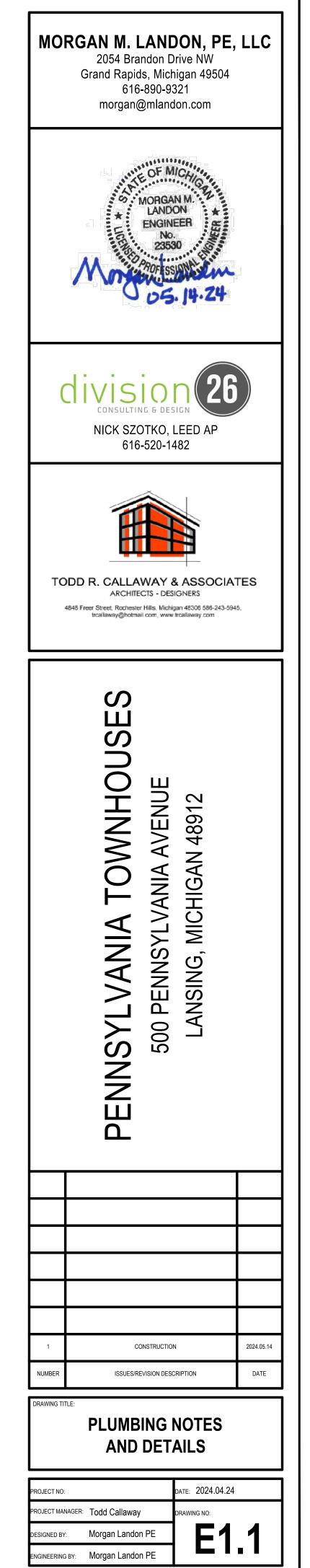
#### NOTES:

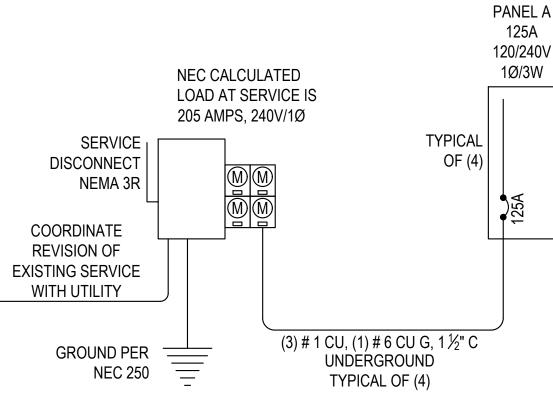
1. COORDINATE FINISHES AND INSTALLATION REQUIREMENTS WITH ARCHITECT BEFORE FIXTURES ARE PURCHASED.



## **GENERAL ELECTRICAL NOTES:**

- 1. ALL WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL WORK, 2. MATERIAL, AND LABOR TO ESTABLISH COMPLETE AND PROPERLY WORKING SYSTEMS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL 3. REQUIRED PERMITS, APPLICATIONS AND FEES AS MAY BE NECESSARY TO COMPLETE THE WORK.
- FINAL ROUTING OF ALL CONDUITS SHALL BE ESTABLISHED 4. BY THE ELECTRICAL CONTRACTOR IN COORDINATION WITH THE WORK OF ALL OTHER TRADES.
- 5. ALL POWER WIRING SHALL BE STRANDED COPPER CONDUCTOR WITH THHN INSULATION RATED 600 VOLTS. MINIMUM WIRE SIZE, # 12 AWG.
- INCREASE WIRE SIZES NOTED ON PLANS OR IN SCHEDULES 6. AS REQUIRED BY CODE FOR LONG RUNS.
- 7. BURIED CONDUIT SHALL BE PVC.
- 8. BRANCH CIRCUIT CONDUIT SHALL BE EMT.
- THE ELECTRICAL CONTRACTOR SHALL PROPERLY GROUND 9. ALL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.
- 10. ALL MATERIALS AND EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW AND UL APPROVED FOR THE INTENDED USE.
- 11. THE CONTRACTOR SHALL PERFORM ALL REQUIRED TESTING OF ALL ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL CORRECT ALL DEFECTS INDICATED BY TESTING AND THEN RETEST UNTIL SATISFACTORY RESULTS ARE OBTAINED.
- 12. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TESTS AND ADJUSTMENTS HAVE BEEN COMPLETED.





# **ONE-LINE DIAGRAM**

NO SCALE

