



Site Plan

Village of East Troy, Wisconsin

Version: March 27, 2018

Village of East Troy
2015 Energy Drive
East Troy, WI 53120

Overview: The site plan review process ensures that proposed land uses and development activity complies with the requirements of the Village's zoning regulations. This review must occur before any building, occupancy, and building permits can be issued; except that development activity associated with an approved final plat of subdivision or certified survey map, and development activity associated with an approved final development plan of a planned development, is exempt from this requirement.

Governing regulations: The procedures and standards governing the review of this application are found in § 510-160 of the Village's zoning code.

General instructions: Complete this application and submit one copies to the Village Clerk at the mailing address shown above. Before you formally submit your application, you are encouraged to meet with the zoning administrator who can answer any questions you may have. If you have any questions, do not hesitate to contact the zoning administrator at (920) 728-2814 or via email at tim.schwecke@civitekconsulting.com. You may download this form at <http://villageofeasttroy.zoninghub/highlights/procedures/procedure.aspx>.

When you fill out this application, you should think about how your business operation may expand or be different in the future. For example, if your business will have 5 employees to start and you hope to have 25, tell us. Also, if you foresee an expansion to a building or a parking lot, your site plan should show that. If you invest time to do this now, you will end up with a more thoughtful plan. Not only that, you will save time and the expense of having to submit a new site plan sometime in the future. So, think ahead.

Application fee: none

Application submittal deadline: Applications must be submitted by the second Monday of the month by 12:00 pm at the Village Hall.

1. Applicant and property owner information

| | Applicant | Property owner |
|--------------------------|------------------------------|----------------|
| Name | MP Systems, Inc. | Same |
| Street address | 5477 S Westridge Ct | |
| City, state, zip code | New Berlin, WI 53151 | |
| Daytime telephone number | 414-788-0262 | |
| Email | ken.phelps@mp-systemsinc.com | |

2. Agent contact information. Include the names of those agents, if any, that helped prepare this application including the supplemental information. Agents may include surveyors, engineers, landscape architects, architects, planners, and attorneys.

| | Agent 1 | Agent 2 |
|--------------------------|------------------------------------|------------------------------------|
| Name | Christopher Wenzler | Kyle Roadt |
| Company | Briohn Design Group, LLC. | Briohn Building Corporation |
| Street address | 3885 N. Brookfield Road, Suite 200 | 3885 N. Brookfield Road, Suite 200 |
| City, state, zip code | Brookfield, Wisconsin 53045 | Brookfield, Wisconsin 53045 |
| Daytime telephone number | (262) 790-0500 (Ext. 406) | (262) 790-0500 |
| Email | cwenzler@briohn.com | kroadt@briohn.com |

3. Type of application (select one)

- ☒ New site plan
- ☐ An amendment of a previously approved site plan (i.e., revision and/or expansion)

4. Business information

| | |
|-----------------------|-------------------|
| Current business name | MP Systems, Inc. |
| Date business began | February 17, 1998 |
| Previous name, if any | |

5. Subject property information

Physical address +/- 16 acres of land in the SW corner of RA314100001

Tax key number(s) RA314100001

Note: The tax key number can be found on the tax bill for the property or it may be obtained from the Village Clerk.

6. Zoning Information (refer to the Village's current zoning map)

The subject property is located in the following base zoning district(s). (check all that apply)

- | | | |
|---|---|---|
| <input type="checkbox"/> RH-35 Rural Holding | <input type="checkbox"/> TR-8 Two-Family Residential | <input type="checkbox"/> NB Neighborhood Business |
| <input type="checkbox"/> SR-3 Estate Residential | <input type="checkbox"/> AR-9 Attached Residential | <input type="checkbox"/> HB Highway Business |
| <input type="checkbox"/> SR-4 Suburban Residential | <input type="checkbox"/> MR-10 Multi-Family Residential | <input type="checkbox"/> CB Central Business |
| <input type="checkbox"/> SR-5 Neighborhood Residential | <input type="checkbox"/> MHR-6 Mobile Home Residential | <input type="checkbox"/> BP Business Park |
| <input type="checkbox"/> SR-6 Traditional-Front Residential | | <input type="checkbox"/> LI Light Industrial |
| <input type="checkbox"/> SR-7 Traditional-Rear Residential | | <input checked="" type="checkbox"/> GI General Industrial |

The subject property is also located in the following overlay zoning district(s). (check all that apply)

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> PD Planned Development | <input type="checkbox"/> GP Groundwater Protection | <input type="checkbox"/> FP 100-Year Floodplain |
| <input type="checkbox"/> DD Downtown Design | <input type="checkbox"/> NFC Natural Features Conservancy | <input type="checkbox"/> FP 500-Year Floodplain |
| | | <input type="checkbox"/> SW Shoreland-Wetland |

7. Adjoining land uses and zoning

| | Zoning district(s) | Current uses |
|-------|--------------------|-----------------|
| North | GI | Industrial Park |
| South | Agricultural | Farm Land |
| East | Agricultural | Farm Land |
| West | Agricultural | Farm Land |

Note: If the subject property abuts a property located in a different zoning district, a bufferyard may be required. You will need to submit a Landscaping and Bufferyard Worksheet if a bufferyard is required.

8. Current use. Describe the current use of the subject property.

Vacant industrial land for sale. Currently owned by East Troy

9. Proposed use. Describe the proposed use or the proposed amendment.

Exterior storage of construction vehicles and equipment. There will be a +/- 25k SF office and repair facility on the property as well

10. **Hours of operation.** Describe when the proposed use will be open for business (i.e., hours and days).

6am to 6PM

11. **Employees.** Describe number by type, number on largest works shift, etc.

40 maximum/ mechanics, office staff

12. **Customers / patrons of business.** Describe the customers and patrons, including peak loads.

non retail so few customer interactions

13. **Miscellaneous**

☐ Yes ☒ No Has the Village approved a variance for the subject property?

If yes, provide the year of issuance and a short description for each one.

☐ Yes ☒ No Is the subject property currently in violation of the Village's zoning code?

If yes, describe the nature of the violation and what is being done to bring the property into compliance.

☐ Yes ☒ No Are there any nonconforming buildings on the subject property? A nonconforming building does not meet the dimensional requirements for the zoning district in which it is located.

If yes, describe what building is nonconforming and the nature of the nonconformity.

☐ Yes ☒ No Will the proposed use create any detectable ground vibrations? (See § 510-99 of the zoning code.) If

yes, describe.

☐ Yes ☒ No Will the proposed use create any detectable noise beyond the property boundary lines? (See § 510-100 of the zoning code.)

If yes, describe.

☐ Yes ☒ No Will the proposed use create any air pollution? (See § 510-101 of the zoning code.)

If yes, describe.

☐ Yes ☒ No Will the proposed use create any detectable odor beyond the property boundary lines? (See § 510-102 of the zoning code.)

If yes, describe.

☐ Yes ☒ No Will the proposed use create any detectable glare or heat beyond the property boundary lines? (See § 510-104 of the zoning code.)

If yes, describe.

☐ Yes ☒ No Will the proposed use involve any materials which could detonate by any means? (See § 510-105 of the zoning code.)

If yes, describe.

☐ Yes ☒ No Will the proposed use involve any materials that are toxic or noxious or that are considered waste materials? (See § 510-106 of the zoning code.)

If yes, describe.

☐ Yes ☒ No Will the proposed use involve any outdoor storage of materials?

If yes, describe.

Outdoor storage of construction vehicles and equipment

☐ Yes ☒ No If the proposed use involves processing or manufacturing of materials, will water be used in any of those processes?

If yes, describe the nature of the activity and anticipated water demand and sanitary loading

☒ Yes ☐ No Is expansion of the proposed use or building anticipated?

If yes, describe the nature of the expansion and potential timeline for such expansion

Additional repair facility space of 30,000 square feet anticipated

14. Utilities

Water ☒ Municipal ☐ Private well

If private well, when was the well installed and approved?

Sewer ☒ Municipal ☐ On-site septic system

If septic system, when was the system installed and approved?

15. Licenses and permits

Required

- ☐ Beer ☐ Have ☐ To Get
☐ Liquor ☐ Have ☐ To Get
☐ Cigarette ☐ Have ☐ To Get
☐ Food service ☐ Have ☐ To Get
☐ Amusement Device ☐ Have ☐ To Get
☐ Other: _____ ☐ Have ☐ To Get
☐ Other: _____ ☐ Have ☐ To Get
☐ Other: _____ ☐ Have ☐ To Get

16. Property access (refer to § 510-91 of the zoning code for details)

| | Current | New |
|----------------|---------|-----|
| Local street | 0 | 2 |
| County highway | | |
| State highway | | |

17. On-site parking (refer to § 510-91.1 of the zoning code for details)

| | <u>Current</u> | <u>Required [1]</u> | <u>New</u> |
|-------------------|----------------|---------------------|------------|
| Standard spaces | 0 | 28 | 38 |
| Accessible spaces | 0 | 2 | 2 |

Notes:

[1] On-site parking is not required in the Central Business (CB) zoning district

☐ Yes ☒ No Are you proposing shared parking pursuant to § 510-93(G) of the zoning code?

If yes, attach a draft shared parking agreement.

18. Calculations for maximum building coverage and impervious surface coverage

| | | |
|--|---------|-------|
| a. Area of subject property as determined by site survey | acres | 17.19 |
| b. Land located within proposed rights-of-ways of roads and within proposed boundaries of public facilities that are designated within the Village's comprehensive plan and/or required for dedication per subdivision regulations | acres | 0 |
| c. Land which, although part of the same parcel, is not contiguous to or is not accessible from the proposed road network serving the project | acres | 0 |
| d. Land which is proposed for a different development option or a different zoning district | acres | 0 |
| e. Navigable waters (lakes & streams not within a designated floodplain) | acres | 0 |
| f. Designated floodplains | acres | 0 |
| g. Wetlands | acres | 0 |
| h. Lakeshores | acres | 0 |
| i. Woodlands | acres | 0 |
| j. Steep slopes (12 percent or greater) | acres | 0 |
| k. Total of "b" through "j" | acres | 0 |
| l. Net developable area (subtract "k" from "a") | acres | 17.19 |
| m. Building coverage ratio (see the standard for the appropriate zoning district) | percent | 0.75 |
| n. Impervious surface coverage ratio (see the standard for the appropriate zoning district) | percent | 0.85 |
| o. Maximum building coverage on property (multiply "l" by "m") | acres | 12.89 |
| p. Maximum impervious surface coverage on property (multiply "l" by "n") | acres | 14.61 |

| | <u>Maximum (acres)</u> | <u>Proposed (acres)</u> |
|---|----------------------------|-----------------------------|
| Building coverage (For Maximum, enter calculated value for "o" from above table) | 12.89 | 0.57 |
| Impervious surface (For Maximum, enter calculated value for "p" from above table) | 14.61 | 11.44 |

19. Supplemental materials. Attach each of the following as appropriate. Upon written petition, the Village Administrator, Village Engineer, Village Planner, or the Zoning Administrator may waive specific site plan requirements.

Site plan with the following information:

1. Title block showing the name, address, and phone of the current property owner and/or agent(s) (i.e. developer, architect, engineer, or planner) for project.
2. The date of the original plan and the latest date of revision to the plan.
3. A north arrow and a graphic scale (at a minimum scale of 1" = 100').
4. A legal description of the subject property.
5. All property lines and existing and proposed right-of-way lines with bearings and dimensions clearly labeled.
6. All existing and proposed easement lines and dimensions with a key provided and explained on the margins of the plan as to ownership and purpose.
7. Ground contours when any slope exceeds 12 percent
8. All required building setback lines.

9. All existing and proposed buildings, structures, and paved areas, including building entrances, walks, drives, decks, patios, fences, utility poles, drainage facilities, and walls.
10. If the project is designed to be completed in phases or allow expansion of the building and other features, indicate these.
11. The location and dimension (cross-section and entry throat) of all access points onto public streets.
12. The location and dimension of all on-site parking (and off-site parking provisions if they are to be employed), including a summary of the number of parking stalls provided versus required by this Chapter.
13. The location and dimension of all loading and service areas on the subject property and labels indicating the dimension of such areas.
14. The location of all outdoor storage areas and the design of all screening devices.
15. Floodplains, wetlands, lakeshores, woodlands, steep slopes, and other environmentally sensitive lands.
16. The location, type, height, size, and lighting of all signage on the subject property.
17. The location and type of any permanently protected green space areas.
18. The location of existing and proposed drainage facilities.
19. Environmental and manmade development constraints and hazards including brownfields, contaminated sites, unstable soils, high groundwater, bedrock, and high-pressure natural gas lines.
20. In the legend, the following data for the subject property: lot area, building coverage, building coverage ratio, floor area ratio, impervious surface area, impervious surface ratio, and building height.
21. Any additional information as requested by the Plan Commission or Village Board.

Landscaping plan prepared at the same scale as the main plan showing the location of all required bufferyard and landscaping areas, and existing and proposed landscape point fencing and berm options for meeting said requirements. The landscaping plan shall demonstrate complete compliance with the requirements of Article XIV of Chapter 510 of the zoning code. Be sure to show the individual plant locations and species, fencing types and heights, and berm heights. In addition to the drawing, include the Worksheet for Landscaping and Bufferyards.

Grading and erosion control plan prepared at the same scale as the main plan, showing existing and proposed grades, including retention walls and related devices, and erosion control measures.

Outdoor lighting plan (photometric plan) prepared at the same scale as the main plan that shows all existing and proposed exterior light fixtures. Calculations for the photometric plan shall be rounded to the nearest 0.10 foot-candles. A legend must be included to show the following information for each type of fixture: (1) manufacturer name, (2) product number, (3) mounting height, and (4) any other pertinent information. Be sure that current and proposed lighting will not exceed the 0.50 foot-candles threshold at the property boundary line. See § 510-95 of the zoning code for more details.

Plat of survey prepared by a registered land surveyor if in the judgment of the Zoning Administrator such accuracy is needed to ensure compliance with all dimensional standards, including setback requirements. The survey shall depict property lines, easements, and other existing and proposed improvements, and other information as may be needed to establish compliance with zoning requirements.

Architectural review application for any new buildings or for remodeling of existing buildings. The application must include elevation drawings showing finished exterior treatment, with adequate labels to clearly depict exterior materials, texture, color, and overall appearance. Perspective renderings of the proposed project and/or photos of similar structures may be submitted, but not in lieu of adequate drawings showing the actual intended appearance of the buildings. (Refer to § 510-90 of the zoning code for additional details.)

20. Attachments. List any attachments included with your application.

SHEET INDEX:
- GENERAL: T1.0 TITLE SHEET
- CIVIL: C1.0 SITE DIMENSION AND PAVEMENT ID PLAN, C2.0 SITE GRADING PLAN, C3.0 SITE NOTES AND DETAILS, C3.1 SITE NOTES AND DETAILS
- LANDSCAPING: L1.0 LANDSCAPE PLAN, L1.1 LANDSCAPE PLAN ENLARGEMENTS, L2.0 LANDSCAPE NOTES AND DETAILS
- ARCHITECTURAL: A0.0 CODE PLAN, A0.2 ARCHITECTURAL SITE PLAN, A0.3 ENLARGED ARCHITECTURAL SITE PLAN, A1.1 OVERALL FLOOR PLAN, A1.2 ENLARGED OFFICE FLOOR PLAN, A4.1 ROOF PLAN, A5.1 EXTERIOR ELEVATIONS, A6.2 EXTERIOR PERSPECTIVES
- ELECTRICAL: E1.0 EXTERIOR LIGHTING AND PHOTOMETRIC PLAN, EXTERIOR LIGHTING CUT SHEETS

21. Other information. You may provide any other information you feel is relevant to the review of your application.

22. Applicant certification

- ♦ I certify that all of the information in this application, along with any attachments, is true and correct to the best of my knowledge and belief.
- ♦ I understand that I may be charged additional fees (above and beyond the initial application fee) consistent with § 510-149 (D) of the Village's municipal code to pay for the services of independent consultants the Village elects to retain to help review this application. Depending on the nature of the proposed project, such independent consultants may include planners, engineers, architects, attorneys, environmental specialists, recreation specialists, and other experts. I further understand, the Village may delay acceptance of the application as complete, or may delay final approval of the proposal, until all outstanding fees have been paid. I further understand that such fees must be paid even if this application is withdrawn or denied. If the applicant or the property owner does not pay such fees upon request, such fees may be assigned to the property owner as a special assessment to the subject property.
- ♦ I understand that submission of this application authorizes Village officials and employees, Plan Commission members, Village Board members, and other designated agents, including those retained by the Village, to enter the property to conduct whatever site investigations are necessary

to review this application. This does not authorize any such individual to enter any building on the subject property, unless such inspection is specifically related to the review of this application and the property owner gives his or her permission to do so.

- ♦ I understand that this application and any written materials relating to this application will become a permanent public record and that by submitting this application I acknowledge that I have no right to confidentiality. Any person has the right to obtain copies of this application and related materials or view it online.
- ♦ I understand that the zoning administrator will review this application to determine if it contains all of the required information. If he or she determines that the application is incomplete, it will not be scheduled for review until it is deemed to be complete.

Property Owner:

MP Systems, Inc.

Name – print

Name – Signature

Date

KENNETH M PHEEPS

Name – print

Name – Signature

Date

Applicant (if different than Property Owner):

Name – print

Name – Signature

Date

Name – print

Name – Signature

Date

PROPOSED NEW BUILDING FOR:

MP SYSTEMS, INC.

EAST TROY BUSINESS PARK II
VILLAGE OF EAST TROY, WISCONSIN



EXTERIOR PERSPECTIVE LOOKING SOUTHWEST

CODE CALCULATIONS AND ANALYSIS:

OCCUPANCY CALCULATION:

OCCUPANCY B BUSINESS (PRIMARY)
100 SQUARE FEET IS MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT
8,117 SQUARE FEET GROSS / 100 SQUARE FEET PER PERSON = 82 PEOPLE
OCCUPANCY S-1 MOD HAZARD STORAGE (SECONDARY)
500 SQUARE FEET IS MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT
16,855 SQUARE FEET GROSS / 500 SQUARE FEET PER PERSON = 34 PEOPLE

TOTAL OCCUPANCY = 116 PEOPLE MAXIMUM

PLUMBING FIXTURE CALCULATION:

BASED ON B BUSINESS OCCUPANCY = 82 PEOPLE
TOILET FIXTURES (WC) REQUIRED AND PROVIDED ARE AS FOLLOWS:
B 41 MEN = 2 FIXTURE (WC) REQUIRED
B 41 WOMEN = 2 FIXTURE (WC) REQUIRED

BASED ON S-1 STORAGE OCCUPANCY = 34 PEOPLE
TOILET FIXTURES (WC) REQUIRED AND PROVIDED ARE AS FOLLOWS:
S-1 17 MEN = 1 FIXTURE (WC) REQUIRED
S-1 17 WOMEN = 1 FIXTURE (WC) REQUIRED

TOTAL (WC) FIXTURES REQUIRED - MEN = 3 FIXTURES
TOTAL (WC) FIXTURES REQUIRED - WOMEN = 3 FIXTURES

MEN AND WOMEN FIXTURES (WC) REQUIRED 6 TOTAL AND PROVIDED 8 TOTAL OK

LAVATORY FIXTURES REQUIRED AND PROVIDED ARE AS FOLLOWS:

B MEN AND WOMEN 82 = 3 LAVATORY FIXTURE REQUIRED +
S-1 MEN AND WOMEN 34 = 1 LAVATORY FIXTURE REQUIRED

MEN AND WOMEN FIXTURES (LAV) REQUIRED 4 TOTAL AND PROVIDED 8 TOTAL OK

EXIT WIDTH REQUIRED AND EXIT ACCESS TRAVEL DISTANCE:

EXIT WIDTH REQUIRED 116 x .20 = 23.2 INCHES OR 32 INCHES EACH MINIMUM
CLEAR X (3) EXITS
EXIT WIDTH PROVIDED (6) 36" WIDE DOORS x 34" = 204" WIDTH
TOTAL EXIT WIDTH PROVIDED OF 204" EXCEEDS REQUIRED EXIT WIDTH
CALCULATED (23.2" OR 32" MIN CLEAR AT EACH EXIT)
TOTAL NUMBER OF EXISTING EXITS PROVIDED (6) EXCEEDS THE NUMBER OF EXITS
REQUIRED (3)
REFER TO SHEET A0.0 FOR ADDITIONAL INFORMATION

EXIT TRAVEL DISTANCE = LESS THAN 250'

AREA AND HEIGHT LIMITATION CALCULATIONS:

PER IBC TABLE 506.2
FOR OCCUPANCY GROUP S-1 (TYPE 2B CONSTRUCTION (INCLUDES
AUTOMATIC SPRINKLER INCREASE) 1 STORY IS 70,000 S.F.

THE ACTUAL SIZE IS 24,975 S.F. AND 1 (ONE) STORY.

THE BUILDING IS CLASSIFIED AS AN UNLIMITED AREA BUILDING PER SECTION
507.4

THE BUILDING AREA IS AT OR BELOW THE ALLOWABLE AREA LIMITS AND
STORY LIMITS PER TABLE 506.2 WITH AUTOMATIC SPRINKLER AND FRONTAGE
INCREASE. THE BUILDING IS BELOW ALLOWABLE HEIGHT LIMIT OF 75 FEET FOR
SPRINKLERED BUILDINGS. THE ACTUAL HEIGHT IS 32.5 FEET. PER TABLE 504.3

MULTIPLE OCCUPANCIES:

BUILDING DESIGN IS BASED ON NON-SEPARATED OCCUPANCIES PER IBC
508.3.
THE ALLOWABLE AREA AND HEIGHT BELOW IS THE MORE RESTRICTIVE
OCCUPANCY GROUP, WHICH IS S-1. REFER TO IBC TABLE 506.2

CONSTRUCTION CLASSIFICATION REQUIREMENTS:

PER IBC TABLE 601 AND TABLE 602:

TYPE IIB CONSTRUCTION:

PRIMARY STRUCTURAL FRAME

INTERIOR BEARING WALLS

EXTERIOR BEARING WALLS

(PER TABLE 602 > 30 FEET

NONBEARING WALLS AND PARTITIONS

FLOOR CONSTRUCTION AND SECONDARY MEMBERS

ROOF CONSTRUCTION AND SECONDARY MEMBERS

"0" RATING REQUIRED

"0" RATING REQUIRED

"0" RATING REQUIRED

"0" RATING REQUIRED

"0" RATING REQUIRED

"0" RATING REQUIRED

"0" RATING REQUIRED

EXTERIOR WALL OPENINGS ALLOWED:

PER IBC TABLE 705.8:

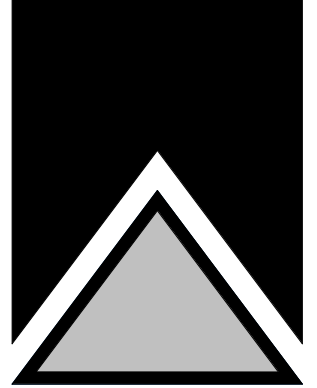
THE NEW WALLS OF THE PROPOSED ADDITION ARE GREATER THAN 30 FEET AWAY FROM THE
PROPERTY LINE OR STREET; THEREFORE, THERE ARE NO RESTRICTIONS ON OPENINGS BOTH
PROTECTED AND UNPROTECTED.

BUILDING ENVELOPE REQUIREMENTS:

BUILDING ENVELOPE REQUIREMENTS: PROPOSED TO USE PRESCRIPTIVE METHOD. PER SPS
363.0402 BUILDING ENVELOPE REQUIREMENTS. (1) OPAQUE ASSEMBLIES, SUBSTITUTE 2009 IECC
TABLE 502.2 (1) PER SPS 363.5402 BUILDING ENVELOPE REQUIREMENTS. (1) INSULATION AND
FENESTRATION REQUIREMENTS BY COMPONENT. REFER TO SHEET AS.1 EXTERIOR ELEVATIONS.

| SHEET INDEX | |
|-----------------|---|
| Sheet Number | Sheet Name |
| 0-GENERAL | |
| T1.0 | TITLE SHEET |
| 1-CIVIL | |
| C1.0 | SITE DIMENSION AND PAVEMENT ID PLAN |
| C2.0 | SITE GRADING, UTILITY, AND EROSION CONTROL PLAN |
| C3.0 | SITE NOTES AND DETAILS |
| C3.1 | SITE NOTES AND DETAILS |
| 2-LANDSCAPING | |
| L1.0 | LANDSCAPE PLAN |
| L1.1 | LANDSCAPE PLAN ENLARGEMENTS |
| L2.0 | LANDSCAPE NOTES & DETAILS |
| 4-ARCHITECTURAL | |
| A0.2 | ARCHITECTURAL SITE PLAN |
| A0.3 | ENLARGED ARCHITECTURAL SITE PLAN |
| A1.1 | OVERALL FLOOR PLAN |
| A1.2 | ENLARGED OFFICE FLOOR PLAN |
| A4.1 | ROOF PLAN |
| A5.1 | EXTERIOR ELEVATIONS |
| A5.2 | EXTERIOR PERSPECTIVES |
| 7-ELECTRICAL | |
| E1.0 | EXTERIOR PHOTOMETRIC LIGHTING PLAN |

BRIOHN



DESIGN GROUP
1885 N BROOKFIELD ROAD, SUITE 200
BROOKFIELD, WISCONSIN 53005-1900
(262) 790-0500 PHONE
(262) 790-0505 FAX

TITLE SHEET

SHEET TITLE

NEW BUILDING FOR:
MP SYSTEMS, INC.
EAST TROY BUSINESS PARK II
VILLAGE OF EAST TROY, WI 53120

PROGRESS SET
NOT FOR CONSTRUCTION

Revision

Date

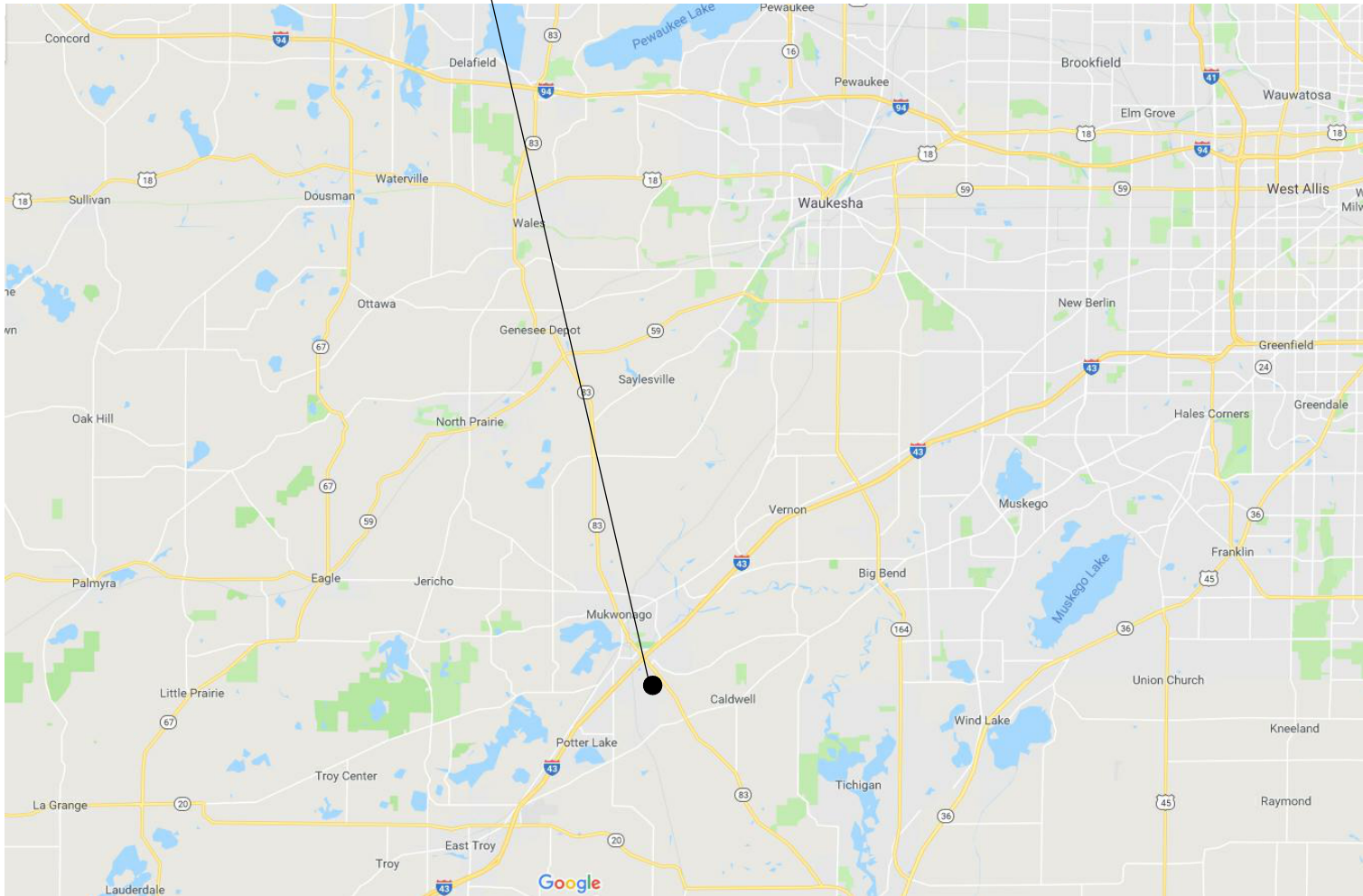
JOB: 3335
DRAWN: NS
CHECKED: CW
DATE: 09-24-2021
SHEET:

T1.0

PLAN COMMISSION SET SEPTEMBER 24, 2021

| OWNER : | GENERAL CONTRACTOR : | ARCHITECT : | STRUCTURAL ENGINEER: | CIVIL ENGINEER: |
|---|--|--|--|---|
| MP SYSTEMS, INC. KEN PHELPS | BRIOHN BUILDING CORPORATION KYLE ROADT | BRIOHN DESIGN GROUP LLC CHRISTOPHER WENZLER, AIA NATHAN SCHULZE | BRIOHN DESIGN GROUP LLC KEVIN JANKOWSKI, PE | JSD ENGINEERING, INC. RIZ Iskandarsjach, P.E., P.L.S |
| 5477 S. WESTRIDGE CT. NEW BERLIN, WI 53151 (414) 788-0262 PHONE | 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX | 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX | 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX | N22 W22931 Nancy Ct., Suite 3 Waukesha, WI 53186 (414) 262.513.0666 PHONE (414) 262.513.1232 FAX |

PROJECT LOCATION:



PROJECT INFORMATION:

CODE: SPS 360-366 WISCONSIN COMMERCIAL BUILDING CODE
(IBC 2015, IECC 2015, IEBC 2015, IMC 2015 AND IFGC 2009)
SPS 314 FIRE PREVENTION
SPS 316 ELECTRICAL
SPS 381-387 PLUMBING

OCCUPANCY: PRIMARY B (OFFICE/BUSINESS)
SECONDARY S-1 (MODERATE HAZARD STORAGE)

CLASS OF CONSTRUCTION: TYPE 2B

SPRINKLER SYSTEM: FULL - NFPA 13

FLOOR LEVELS: 1

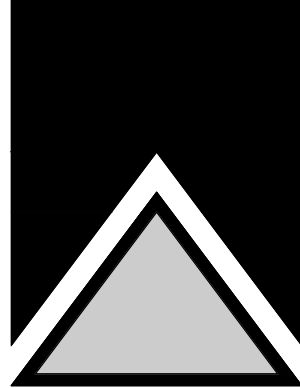
NUMBER OF STORIES: 1

BUILDING AREA: FOOTPRINT 24,975 SF

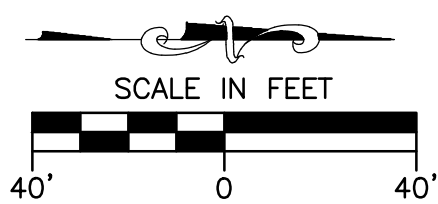
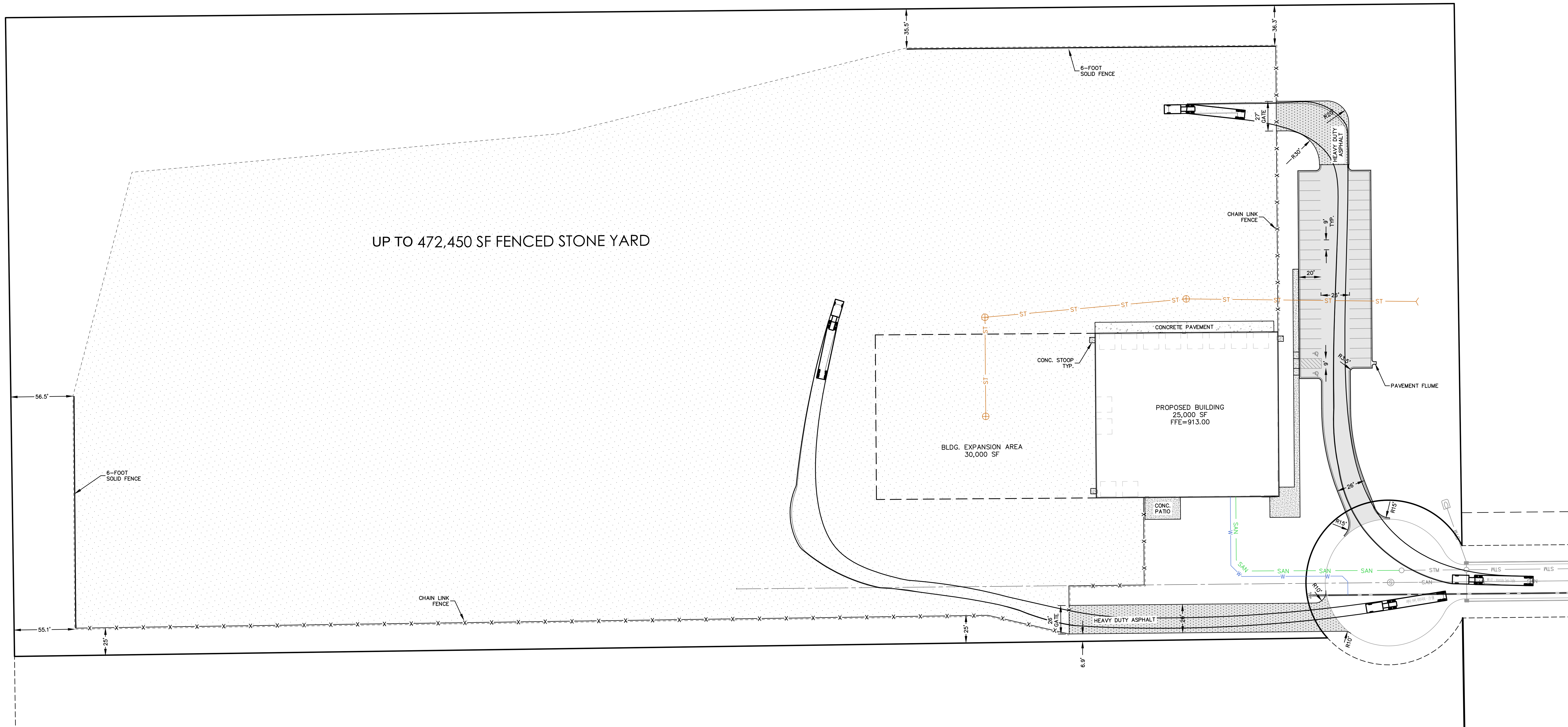
NOTE:
ALL MECHANICAL, ELECTRICAL,
PLUMBING AND FIRE SPRINKLER
ENGINEERING BY DESIGN-BUILD
CONTRACTORS



APPLICABLE
TO ALL
PLAN VIEWS

SITE DIMENSION AND
PAVEMENT ID PLAN

SHEET TITLE

NEW BUILDING FOR:
MP SYSTEMS, INC.
EAST TROY BUSINESS PARK II
VILLAGE OF EAST TROY, WI

GENERAL NOTES AND SPECIFICATIONS

- THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO SET FORTH PERFORMANCE AND CONSTRUCTION MATERIAL STANDARDS FOR THE PROPER EXECUTION OF WORK. ALL WORKS CONTAINED WITHIN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS FROM LOCAL, STATE, FEDERAL OR OTHER GOVERNING AGENCY'S LAWS, REGULATIONS, JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., AND THE OWNER'S DIRECTION.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY ADDITIONAL SOILS INVESTIGATIONS THEY FEEL IS NECESSARY FOR THE PROPER EVALUATION OF THE SITE FOR PURPOSES OF PLANNING, BIDDING, OR CONSTRUCTING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL COMPONENTS OF THE PLANS AND SPECIFICATIONS, INCLUDING FIELD VERIFYING SOIL CONDITIONS, PRIOR TO SUBMISSION OF A BID PROPOSAL.
- THE CONTRACTOR SHALL PROMPTLY REPORT ANY ERRORS OR AMBIGUITIES DISCOVERED AS PART OF THEIR REVIEW OF PLANS, SPECIFICATIONS, REPORTS AND FIELD INVESTIGATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COMPUTATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR'S BID SHALL BE BASED ON THEIR OWN COMPUTATIONS AND UNDER NO CIRCUMSTANCES BE BASED ON THE ENGINEER'S ESTIMATE.
- QUESTIONS/CLARIFICATIONS WILL BE INTERPRETED BY ENGINEER/OWNER PRIOR TO THE AWARD OF CONTRACT. ENGINEER/OWNER WILL SUBMIT OFFICIAL RESPONSES IN WRITING. INTERPRETATIONS PRESENTED IN OFFICIAL RESPONSES SHALL BE BINDING ON ALL PARTIES ASSOCIATED WITH THE CONTRACT. IN NO WAY SHALL WORD-OF-MOUTH DIALOGS CONSTITUTE AN OFFICIAL RESPONSE.
- PRIOR TO START OF WORK, CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL CONDITIONS OF THE SITE, AND SHALL ACCOUNT FOR CONDITIONS THAT AFFECT, OR MAY AFFECT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LIMITATIONS OF WORK ACCESS, SPACE LIMITATIONS, OVERHEAD OBSTRUCTIONS, TRAFFIC PATTERNS, LOCAL REQUIREMENTS, ADJACENT ACTIVITIES, ETC. FAILURE TO CONSIDER SITE CONDITIONS SHALL NOT BE CAUSE FOR CLAIM OF JOB EXTRAS.
- COMMENCEMENT OF CONSTRUCTION SHALL EXPLICITLY CONFIRM THAT THE CONTRACTOR HAS REVIEWED THE PLANS AND SPECIFICATIONS IN THEIR ENTIRETY AND CERTIFIES THAT THEIR SUBMITTED BID PROPOSAL CONTAINS PROVISIONS TO COMPLETE THE PROJECT, WITH THE EXCEPTION OF UNFORESEEN FIELD CONDITIONS; ALL APPLICABLE PERMITS HAVE BEEN OBTAINED; AND CONTRACTOR UNDERSTANDS ALL OF THE REQUIREMENTS OF THE PROJECT.
- SHOULD ANY DISCREPANCIES OR CONFLICTS IN THE PLANS OR SPECIFICATIONS BE DISCOVERED AFTER THE AWARD OF CONTRACT, ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY AND CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES/CONFLICTS SHALL NOT COMMENCE, OR CONTINUE, UNTIL A WRITTEN RESPONSE FROM ENGINEER/OWNER IS DISTRIBUTED. IN THE EVENT OF A CONFLICT BETWEEN REFERENCED CODES, STANDARDS, SPECIFICATIONS AND PLANS, THE ONE ESTABLISHING THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
- THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS AND LICENSES TO COMPLETE THE PROJECT. OBTAINING PERMITS, OR DELAYS IN OBTAINING PERMITS, IS NOT CAUSE FOR DELAY OF THE CONTRACT OR SCHEDULE. CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY ALL INTERESTED GOVERNING AGENCIES, UTILITY COMPANIES AFFECTED BY THIS CONSTRUCTION PROJECT, AND "DIGGERS' HOTLINE" IN ADVANCE OF CONSTRUCTION TO COMPLY WITH ALL JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., PERMIT STIPULATIONS, AND OTHER APPLICABLE STANDARDS. CONTRACTOR IS RESPONSIBLE TO DETERMINE WHICH ORDINANCES/CODES/RULES/ETC. ARE APPLICABLE.
- SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO INITIATE, INSTITUTE, ENFORCE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS AND JOB SITE SAFETY PROGRAMS IN CONNECTION WITH THE WORK.
- CONTRACTOR SHALL KEEP THE JOBSITE CLEAN AND ORDERLY AT ALL TIMES. ALL LOCATIONS OF THE SITE SHALL BE KEPT IN A WORKING MANNER SUCH THAT DEBRIS IS REMOVED CONTINUOUSLY AND ALL RESPECTIVE CONTRACTORS OPERATE UNDER GENERAL "GOOD HOUSEKEEPING".
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, JSD, AND THEIR AGENTS FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
- ALL FIELD/DRAIN TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPORTED TO ENGINEER/OWNER. TILES ORIGINATING OUTSIDE THE PROJECT LIMITS SHALL BE RECONNECTED OR REROUTED TO MAINTAIN DRAINAGE. ENGINEER/OWNER SHALL DETERMINE THE MOST FAVORABLE METHOD OF RE-ESTABLISHMENT OF OFFSITE DRAINAGE. IF TILE IS ENCOUNTERED DURING TRENCH EXCAVATIONS, RE-ESTABLISHING TILE FUNCTIONALITY SHALL BE CONSIDERED AN INCIDENTAL EXPENSE.

PAVING NOTES

- ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION AND APPLICABLE VILLAGE OF EAST TROY ORDINANCES.
- CONCRETE PAVING SPECIFICATIONS--
CODES AND STANDARDS -- THE PLACING, CONSTRUCTION AND COMPOSITION OF THE CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS STATE HIGHWAY SPECIFICATIONS.
CRUSHED AGGREGATE BASE COURSE -- THE BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS. CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GEOTECH ENGINEER OF RECORD.
SURFACE PREPARATION -- NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
ASPHALTIC CONCRETE PAVING SPECIFICATIONS--
CODES AND STANDARDS -- THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, EDITION OF 2005. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS STATE HIGHWAY SPECIFICATIONS.
WEATHER LIMITATIONS -- APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35° F (1° C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS AMOUNTS OF MOISTURE. CONSTRUCT ASPHALTIC CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40° F (4° C) AND WHEN BASE IS DRY AND WHEN WEATHER IS NOT RAINY. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30° F (-1° C).
GRADE CONTROL -- ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
CRUSHED AGGREGATE BASE COURSE -- THE TOP LAYER OF BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS. CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GEOTECH ENGINEER OF RECORD.
BINDER COURSE AGGREGATE -- THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 315, STATE HIGHWAY SPECIFICATIONS.
SURFACE COURSE AGGREGATE -- THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 465, STATE HIGHWAY SPECIFICATIONS.
ASPHALTIC MATERIALS -- THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTION 455 AND 460, STATE HIGHWAY SPECIFICATIONS.
SURFACE PREPARATION -- NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.

PAVEMENT STRIPING NOTES

- CONTRACTOR SHALL CONSULT STRIPING COLOR WITH OWNER PRIOR TO CONSTRUCTION.
- PROVIDE CONTRACTOR GRADE ACRYLIC STRIPING PAINT FOR NEW ASPHALT OR COATED ASPHALT. ALL STRIPING SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- THOROUGHLY CLEAN SURFACES FREE OF DIRT, SAND, GRAVEL, OIL AND OTHER FOREIGN MATTER. CONTRACTOR RESPONSIBLE TO INSPECT PAVEMENT SURFACES FOR CONDITIONS AND DEFECTS THAT WILL ADVERSELY AFFECT QUALITY OF WORK, AND WHICH CANNOT BE PUT INTO AN ACCEPTABLE CONDITION THROUGH NORMAL PREPARATORY WORK AS SPECIFIED.
- DO NOT PLACE MARKING OVER UNSOUND PAVEMENTS. IF THESE CONDITIONS EXIST, NOTIFY OWNER. STARTING INSTALLATION CONSTITUTES CONTRACTOR'S ACCEPTANCE OF SURFACE AS SUITABLE FOR INSTALLATION.
- LAYOUT MARKINGS USING GUIDE LINES, TEMPLATES AND FORMS. STENCILS AND TEMPLATES SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. "FREE HAND" PAINTING OF ARROWS, SYMBOLS, OR WORDING SHALL NOT BE ALLOWED. APPLY STRIPES STRAIGHT AND EVEN.
- PROTECT ADJACENT CURBS, WALKS, FENCES, AND OTHER ITEMS FROM RECEIVING PAINT.
- APPLY MARKING PAINT AT A RATE OF ONE (1) GALLON PER THREE TO FOUR HUNDRED (300-400) LINEAL FEET OF FOUR (4) INCH WIDE STRIPES. (OR TO MFG. SPECIFICATIONS)
- BARRICADE MARKED AREAS DURING INSTALLATION AND UNTIL THE MARKING PAINT IS DRIED AND READY FOR TRAFFIC.
- ALL HANDICAPPED ACCESSIBLE PARKING SHALL BE LOCATED PER 2009 IBC 1106.6

PAVEMENT THICKNESS NOTES

ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION -- CURRENT EDITION AND ADDENDUM, APPLICABLE VILLAGE OF EAST TROY ORDINANCES, AND THE GEOTECHNICAL ENGINEERING SERVICES REPORT PREPARED BY _____, DATED _____, 20____.

**** FINAL PAVEMENT DESIGN TO BE DETERMINED BY OWNER BASED ON GEOTECHNICAL ENGINEER OF RECORD RECOMMENDATIONS. ALL PAVING SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER OF RECORDS RECOMMENDATIONS AS SPECIFIED IN THE SAID GEOTECHNICAL REPORT.**

MINIMUM PAVEMENT STRUCTURE

- | | |
|--|--|
| CONCRETE PAVEMENT (TRUCK DOCK, DOLLY PAD, APRON DRIVE-IN ENTRANCE, TRASH PAD) | CONCRETE SIDEWALK AND STOOPS |
| 7" CONCRETE W/ MESH REINFORCEMENT | 5" CONCRETE |
| ** CRUSHED AGGREGATE BASE COURSE (1-1/4" DENSE GRADED LESTONE) | 4" CRUSHED AGGREGATE BASE COURSE |
| CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GEOTECH ENGINEER OF RECORD. | CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GEOTECH ENGINEER OF RECORD. |
| HEAVY DUTY ASPHALT PAVEMENT | |
| 6" ASPHALTIC CONCRETE (2 LIFTS) | |
| LOWER LAYER (4" BINDER, 4LT 58.28 S) | |
| UPPER LAYER (2" SURFACE, 5LT 58.28 S) | |
| 13" CRUSHED AGGREGATE BASE COURSE (1-1/4" DENSE GRADED LESTONE) | |
| CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GEOTECH ENGINEER OF RECORD. | |
| LIGHT DUTY ASPHALT PAVEMENT | |
| 3.5" ASPHALTIC CONCRETE (2 LIFTS) | |
| LOWER LAYER (1.5" BINDER, 4LT 58.28 S) | |
| UPPER LAYER (2" SURFACE, 5LT 58.28 S) | |
| 8" CRUSHED AGGREGATE BASE COURSE (1-1/4" DENSE GRADED LESTONE) | |
| CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GEOTECH ENGINEER OF RECORD. | |

SHEET INDEX

- | | |
|------|---|
| C1.0 | SITE DIMENSION AND PAVEMENT ID PLAN |
| C2.0 | SITE GRADING, UTILITY, AND EROSION CONTROL PLAN |
| C3.0 | SITE NOTES AND DETAILS |
| C3.1 | SITE NOTES AND DETAILS |

PRE-DEVELOPMENT (PROPERTY* LIMIT).

PERVIOUS -- 748,784 SF (100% GREEN SPACE)

IMPERVIOUS -- 0 SF

POST-DEVELOPMENT (PROPERTY* LIMIT).

PERVIOUS -- 223,948 SF (29.9% GREEN SPACE)

IMPERVIOUS -- 524,836 SF (25,000 SF BUILDING)

*PROPERTY BASED ON PROPOSED
CERTIFIED SURVEY MAP (LAND DIVISION)
BY OTHER.

THE PROPERTY IS ZONED L1 LIGHT INDUSTRIAL, PER THE
VILLAGE OF EAST TROY, AND HAS THE FOLLOWING SETBACKS
AND RESTRICTIONS:

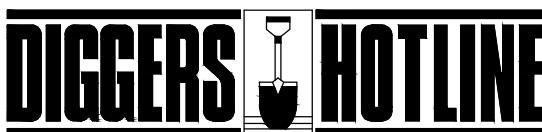
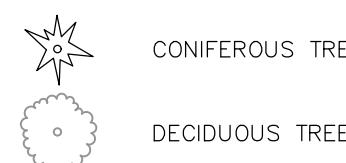
BUILDING SETBACKS/RESTRICTIONS:

FRONT/STREET YARD SETBACK: 25'
SIDE/REAR YARD SETBACK: 25'
BUILDING MAX. HEIGHT: 45'
BUILDING MAX. AREA: 75% OF LOT AREA
IMPERVIOUS MAX. AREA: 85% OF LOT AREA

PARKING/PAVEMENT SETBACK: 5'
MINIMUM PARKING: 1/EMPLOYEE ON THE LARGEST WORK SHIFT

LEGEND

- | | | | |
|---|------------------------|-----------|--------------------------|
| ⊙ | SANITARY SEWER MANHOLE | — SAN — | SANITARY SEWER |
| ⊕ | STORM MANHOLE | — W — | WATER MAIN |
| ⊕ | CATCH BASIN ROUND | — ST — | STORM SEWER |
| ⊕ | CATCH BASIN SQUARE | — RD — | ROOF DRAIN |
| ⊕ | FIRE HYDRANT | — G — | UNDERGROUND GAS |
| ⊕ | WATER VALVE | — E — | UNDERGROUND ELECTRIC |
| ⊕ | GAS VALVE | — T — | UNDERGROUND TELEPHONE |
| ⊕ | LIGHT POLE | — FIB — | UNDERGROUND FIBER OPTICS |
| ⊕ | TELEPHONE PEDESTAL | — --- --- | OVERHEAD UTILITY |
| ⊕ | ELECTRICAL MANHOLE | — SF — | SILT FENCE |
| ⊕ | SIGN | ⊕ | CONFEROUS TREE |
| ⊕ | POWER POLE | ⊕ | DECIDUOUS TREE |
| ⊕ | GUY WIRE | | |

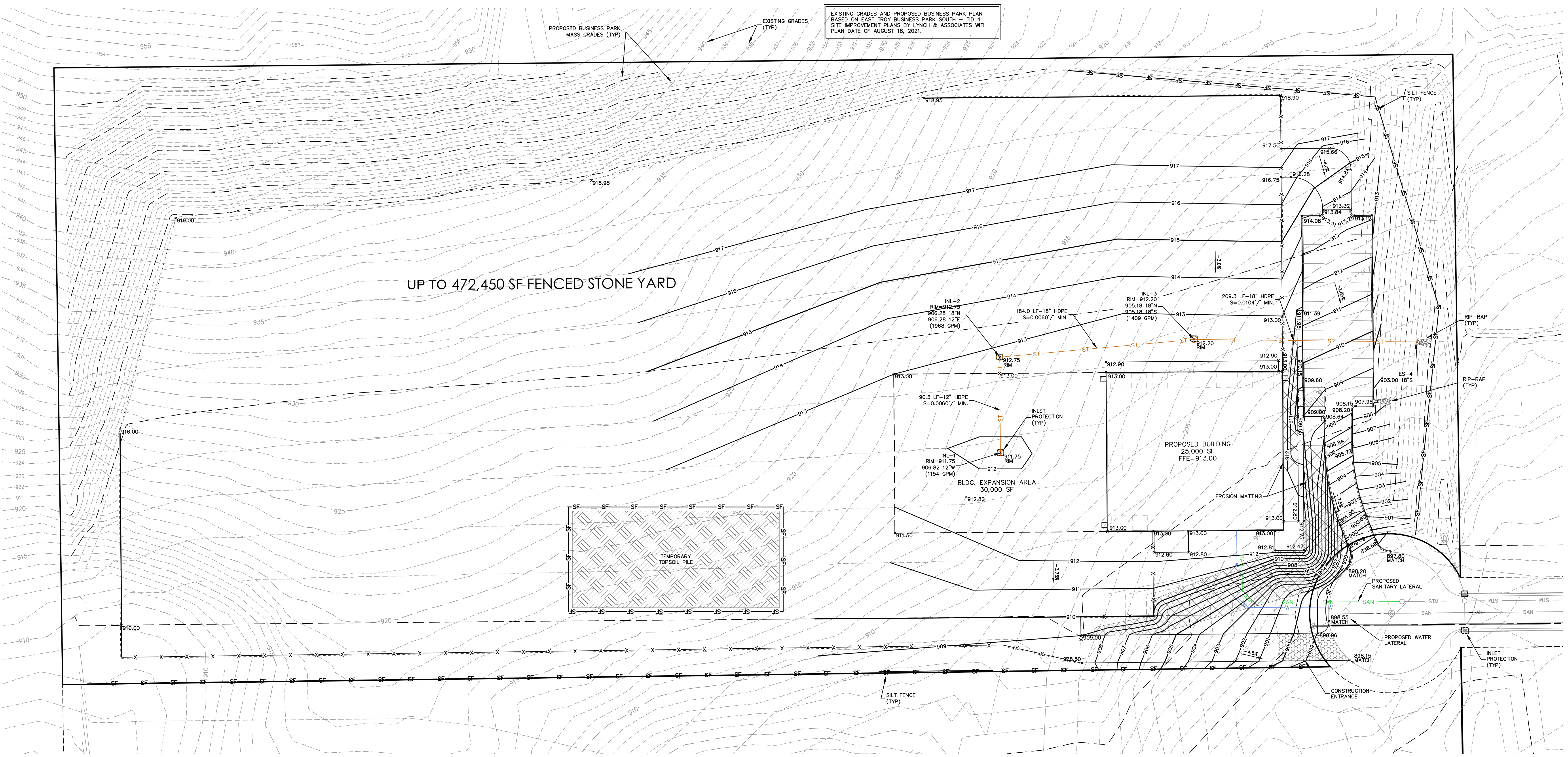


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CHECKED: RWJ
DATE: 09-20-21
SHEET:

C1.0

DRAFT - NOT FOR CONSTRUCTION



GRADING NOTES

- CONTRACTOR SHALL VERIFY ALL GRADES, ENSURE ALL AREAS DRAIN PROPERLY AND REPORT ANY DISCREPANCIES TO JSD PROFESSIONAL SERVICES, INC. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- ALL EXISTING CONTOURS REPRESENT EXISTING SURFACE GRADES UNLESS OTHERWISE NOTED. ALL PROPOSED GRADES SHOWN ARE FINISH SURFACE GRADES UNLESS OTHERWISE NOTED.
- ALL EXCAVATIONS AND MATERIAL PLACEMENT SHALL BE COMPLETED TO DESIGN ELEVATIONS AS DEPICTED IN THE PLANS.
 - CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATION(S) OF ALL GRADING QUANTITIES, WHILE JSD ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK. GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARD OF CARE, THEREFORE NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
 - THE CONTRACTOR MAY SOLICIT APPROVAL FROM ENGINEER/OWNER TO ADJUST FINAL GRADES FROM DESIGN GRADES TO PROVIDE AN OVERALL SITE BALANCE AS A RESULT OF FIELD CONDITIONS.
- GRADING ACTIVITIES SHALL BE IN A MANNER TO ALLOW POSITIVE DRAINAGE ACROSS DISTURBED SOILS, WHICH MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES TO PREVENT PONDING, AND IF NECESSARY PUMPING TO ALLEViate PONDING. CONTRACTOR SHALL PREVENT SURFACE WATER FROM ENTERING INTO EXCAVATIONS. IN NO WAY SHALL OWNER BE RESPONSIBLE FOR REMEDIATION OF UNSUITABLE SOILS CREATED/ORIGINATED AS A RESULT OF IMPROPER SITE GRADING OR SEQUENCING. CONTRACTOR SHALL SEQUENCE GRADING ACTIVITIES TO LIMIT EXPOSURE OF DISTURBED SOILS DUE TO WEATHER.
- THE CONTRACTOR IS RESPONSIBLE FOR MEETING MINIMUM COMPACTION STANDARDS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING SERVICES REPORT PREPARED BY AND DATED 2/20/21 FOR SITE COMPACTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY ENGINEER/OWNER IF PROPER COMPACTION CANNOT BE OBTAINED. THE PROJECT'S GEOTECHNICAL CONSULTANT SHALL DETERMINE WHICH IN-SITU SOILS ARE TO BE CONSIDERED UNSUITABLE SOILS. THE ENGINEER/OWNER AND GEOTECHNICAL TESTING CONSULTANT WILL DETERMINE IF REMEDIAL MEASURES WILL BE NECESSARY.
- IN THE EVENT THAT ANY MOISTURE-DENSITY TEST(S) FAIL TO MEET SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL PERFORM CORRECTIVE WORK AS NECESSARY TO BRING THE MATERIAL INTO COMPLIANCE AND RETEST THE FAILED AREA AT NO COST TO THE OWNER.
- WITH THE AUTHORIZATION OF THE ENGINEER/OWNER, MATERIAL THAT IS TOO WET TO PERMIT PROPER COMPACTION MAY BE SPREAD ON FILL AREAS IN AN EFFORT TO DRY. CONTRACTOR SHALL CLEARLY FIELD MARK THE EXTERIOR LIMITS OF SPREAD MATERIAL WITH PAINTED LATH AND SUBMIT A PLAN TO THE ENGINEER/OWNER THAT IDENTIFIES THE LIMITS. UNDER NO CONDITION SHALL THE SPREAD MATERIAL DEPTH EXCEED THE MORE RESTRICTIVE OF: THE EFFECTIVE TREATMENT DEPTH OF MACHINERY THAT WILL BE USED TO TURNOVER THE SPREAD MATERIAL, OR THE MAXIMUM COMPACTION LIFT DEPTH.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER/OWNER IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ADEQUATE AND SAFE TEMPORARY SHORING, BRACING, RETENTION STRUCTURES, AND EXCAVATIONS.
- THE SITE SHALL BE COMPLETED TO WITHIN 0.10-FT (+/-) OF THE PROPOSED GRADES AS INDICATED WITHIN THE PLANS PRIOR TO PLACEMENT OF TOPSOIL OR STONE. CONTRACTOR IS ENCOURAGED TO SEQUENCE CONSTRUCTION SUCH THAT THE SITE IS DIVIDED INTO SMALLER AREAS TO ALLOW STABILIZATION OF DISTURBED SOILS IMMEDIATELY UPON COMPLETION OF INDIVIDUAL SMALLER AREAS.
- CONTRACTOR SHALL CONTACT "DIGGERS' HOTLINE" FOR LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR PROTECTING SAID UTILITIES FROM ANY DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT INLETS AND ADJACENT PROPERTIES WITH SILT FENCING OR APPROVED EROSION CONTROL METHODS UNTIL CONSTRUCTION IS COMPLETED. CONTRACTOR SHALL PLACE SILT FENCING AT DOWN SLOPE SIDE OF GRADING LIMITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING FACILITIES OR UTILITIES. ANY DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
- WORK WITHIN ANY ROADWAY RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPAL OFFICIAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS. RESTORATION OF RIGHT-OF-WAY IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF GRADING. RESTORATION SHALL INCLUDE ALL ITEMS NECESSARY TO RESTORE RIGHT-OF-WAY IN-KIND INCLUDING LANDSCAPING.
- CONTRACTOR SHALL COMPLY WITH ALL CITY AND/OR STATE CONSTRUCTION STANDARDS/ORDINANCES.

EROSION AND SEDIMENT CONTROL NOTES:

- ALL CONSTRUCTION SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN WISCONSIN'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER GENERAL PERMIT FOR CONSTRUCTION SITE LAND DISTURBANCE ACTIVITIES. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND VILLAGE OF EAST TROY ORDINANCE. THESE PROCEDURES AND STANDARDS SHALL BE REFERRED TO AS BEST MANAGEMENT PRACTICES (BMP'S). IT IS THE RESPONSIBILITY OF ALL CONTRACTORS ASSOCIATED WITH THE PROJECT TO OBTAIN A COPY OF, AND UNDERSTAND, THE BMP'S PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL CONTROL MEASURES AS DIRECTED BY JSD PROFESSIONAL SERVICES, INC. (JSD) OR GOVERNING AGENCIES SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
- MODIFICATIONS TO THE APPROVED EROSION CONTROL PLAN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS ARE ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL MODIFICATIONS MUST BE APPROVED BY JSD/MUNICIPALITY PRIOR TO DEVIATION OF THE APPROVED PLAN.
- INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN IN ORDER TO PROTECT ADJACENT PROPERTIES/STORM SEWER SYSTEMS FROM SEDIMENT TRANSPORT.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION(S) WITH THE PROPER AUTHORITIES, PROVIDE NECESSARY FEES AND OBTAIN ALL REQUIRED APPROVALS OR PERMITS. ADDITIONAL CONSTRUCTION ENTRANCES OTHER THAN AS SHOWN ON THE PLANS MUST BE PRIOR APPROVED BY THE APPLICABLE GOVERNING AGENCIES PRIOR TO INSTALLATION.
- PAVED SURFACES ADJACENT TO CONSTRUCTION ENTRANCES SHALL BE SWEEP AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE GOVERNING AGENCIES.
- ALL EXISTING STORM SEWER FACILITIES THAT WILL COLLECT RUNOFF FROM DISTURBED AREAS SHALL BE PROTECTED TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER. ALL INLETS, STRUCTURES, PIPES, AND SWALES SHALL BE KEPT CLEAN AND FREE OF SEDIMENTATION AND DEBRIS.
- EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) OUTSIDE OF THE PERIMETER CONTROLS SHALL INCORPORATE THE FOLLOWING:
 - PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH BMP'S PRIOR TO RELEASE INTO STORM SEWER OR DITCHES.
- AT A MINIMUM, SEDIMENT BASINS AND NECESSARY TEMPORARY DRAINAGE PROVISIONS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE BEGINNING OF SIGNIFICANT MASS GRADING OPERATIONS TO PREVENT OFFSITE DISCHARGE OF UNTREATED RUNOFF.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION. THE OWNER WILL BE RESPONSIBLE IF EROSION CONTROL IS REQUIRED AFTER THE CONTRACTOR HAS COMPLETED THE PROJECT.
- TOPSOIL STOCKPILES SHALL HAVE A BERM OR TRENCH AROUND THE CIRCUMFERENCE AND PERIMETER SILT FENCE TO CONTROL SILT. IF TOPSOIL STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IS REQUIRED.
- EROSION CONTROL MEASURES TEMPORARILY REMOVED FOR UNAVOIDABLE CONSTRUCTION ACTIVITIES SHALL BE IN WORKING ORDER PRIOR TO THE COMPLETION OF EACH WORK DAY.
- MAINTAIN SOIL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THIS PROJECT. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. DISTURBANCES ASSOCIATED WITH EROSION CONTROL REMOVAL SHALL BE IMMEDIATELY STABILIZED.
- PUMPS MAY BE USED AS BYPASS DEVICES. IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS.
- GRADING EFFORTS SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION, EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR

CONSTRUCTION SITE SEQUENCING

- INSTALL PERIMETER SILT FENCE, EXISTING INLET PROTECTION, AND TEMPORARY CONSTRUCTION ENTRANCE.
- STRIP AND STOCKPILE TOPSOIL, INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
- CONDUCT ROUGH GRADING EFFORTS.
- INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
- COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
- PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROLS.
- EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER THAT MEETS OR EXCEEDS THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES DEFINITION OF "FINAL STABILIZATION".

CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.

LEGEND

| | | | |
|---|------------------------|-----------|--------------------------|
| ⊙ | SANITARY SEWER MANHOLE | — SAN — | SANITARY SEWER |
| ⊕ | STORM MANHOLE | — W — | WATER MAIN |
| ⊗ | CATCH BASIN ROUND | — ST — | STORM SEWER |
| ⊕ | CATCH BASIN SQUARE | — RD — | ROOF DRAIN |
| ⊕ | FIRE HYDRANT | — G — | UNDERGROUND GAS |
| ⊕ | WATER VALVE | — E — | UNDERGROUND ELECTRIC |
| ⊕ | GAS VALVE | — T — | UNDERGROUND TELEPHONE |
| ⊕ | LIGHT POLE | — FIB — | UNDERGROUND FIBER OPTICS |
| ⊕ | ELECTRICAL PEDESTAL | — — — — — | OVERHEAD UTILITY |
| ⊕ | TELEPHONE MANHOLE | — SF — | SILT FENCE |
| ⊕ | SIGN | ⊕ | CONIFEROUS TREE |
| ⊕ | POWER POLE | ⊕ | DECIDUOUS TREE |
| ⊕ | GUY WIRE | | |

DRAFT - NOT FOR CONSTRUCTION

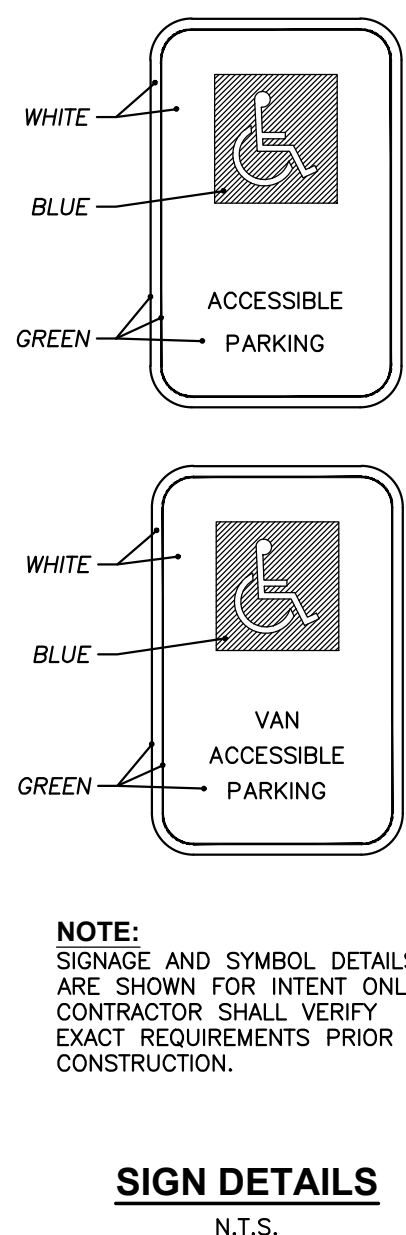
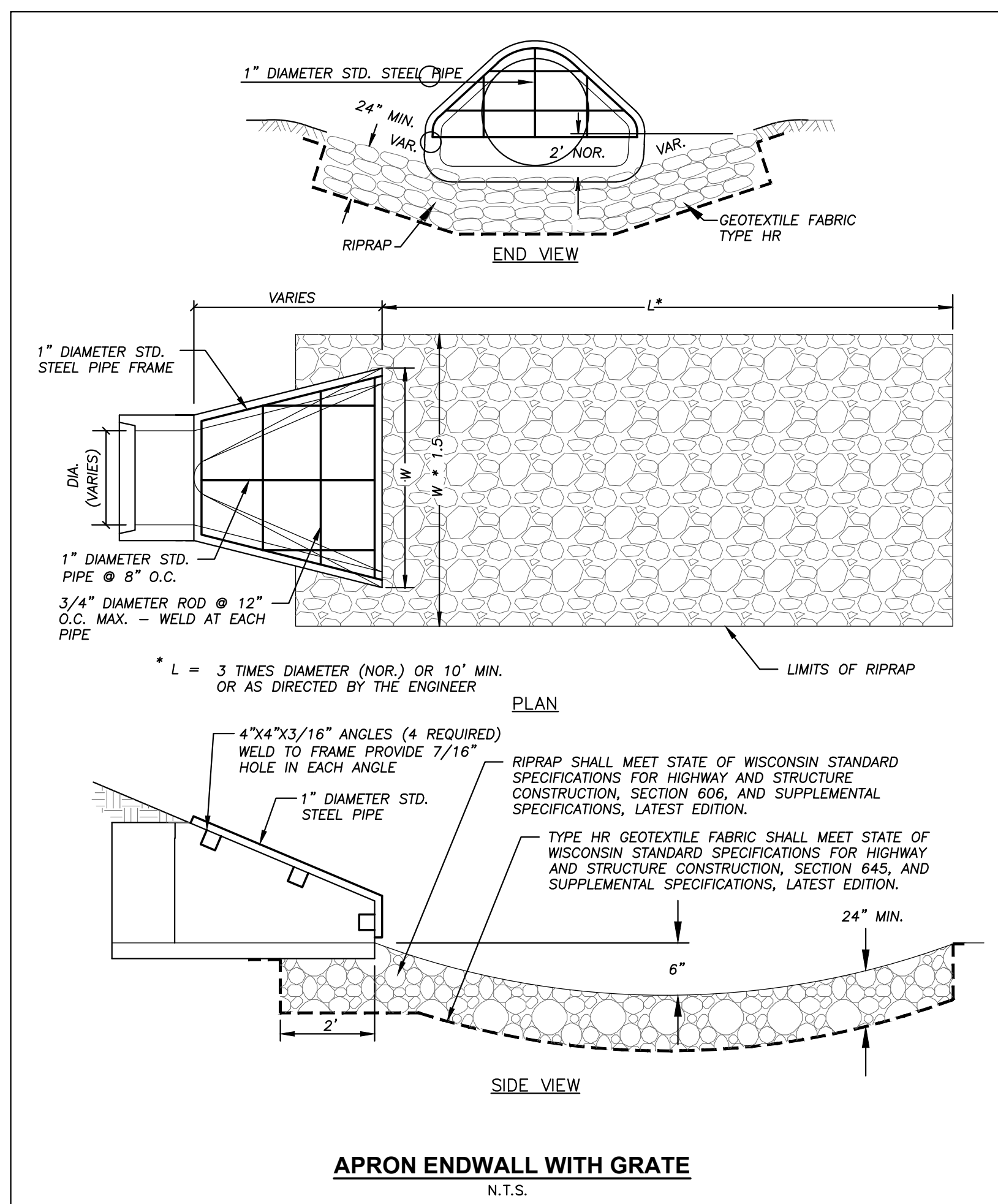
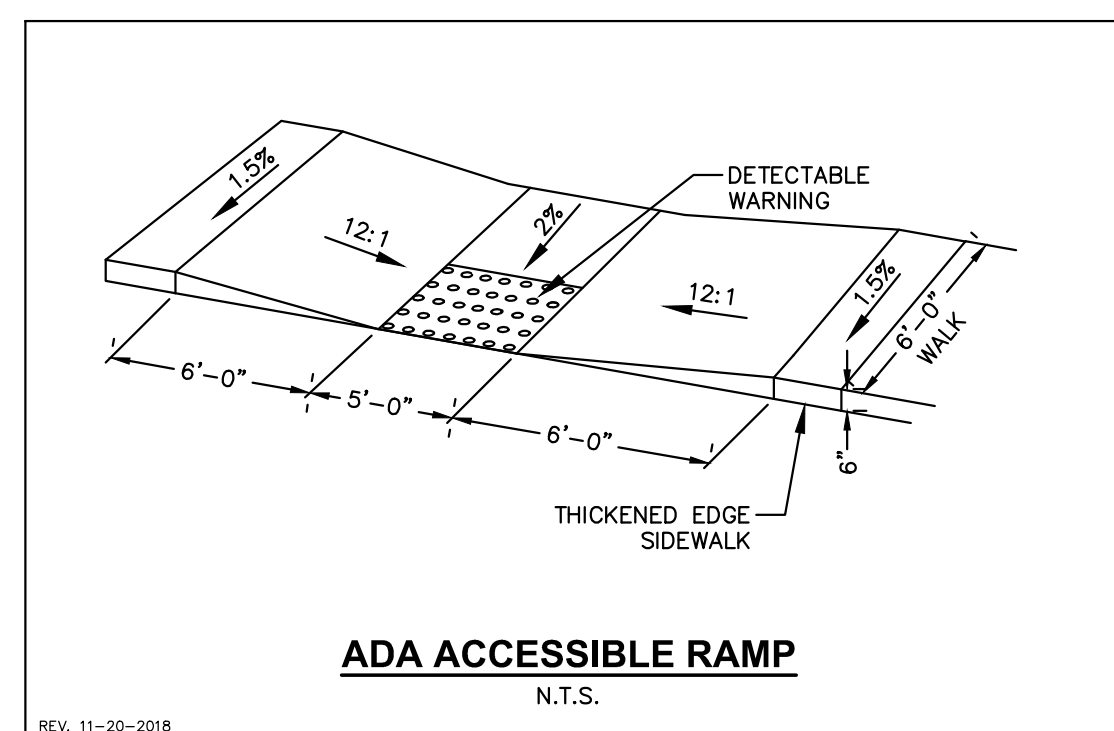
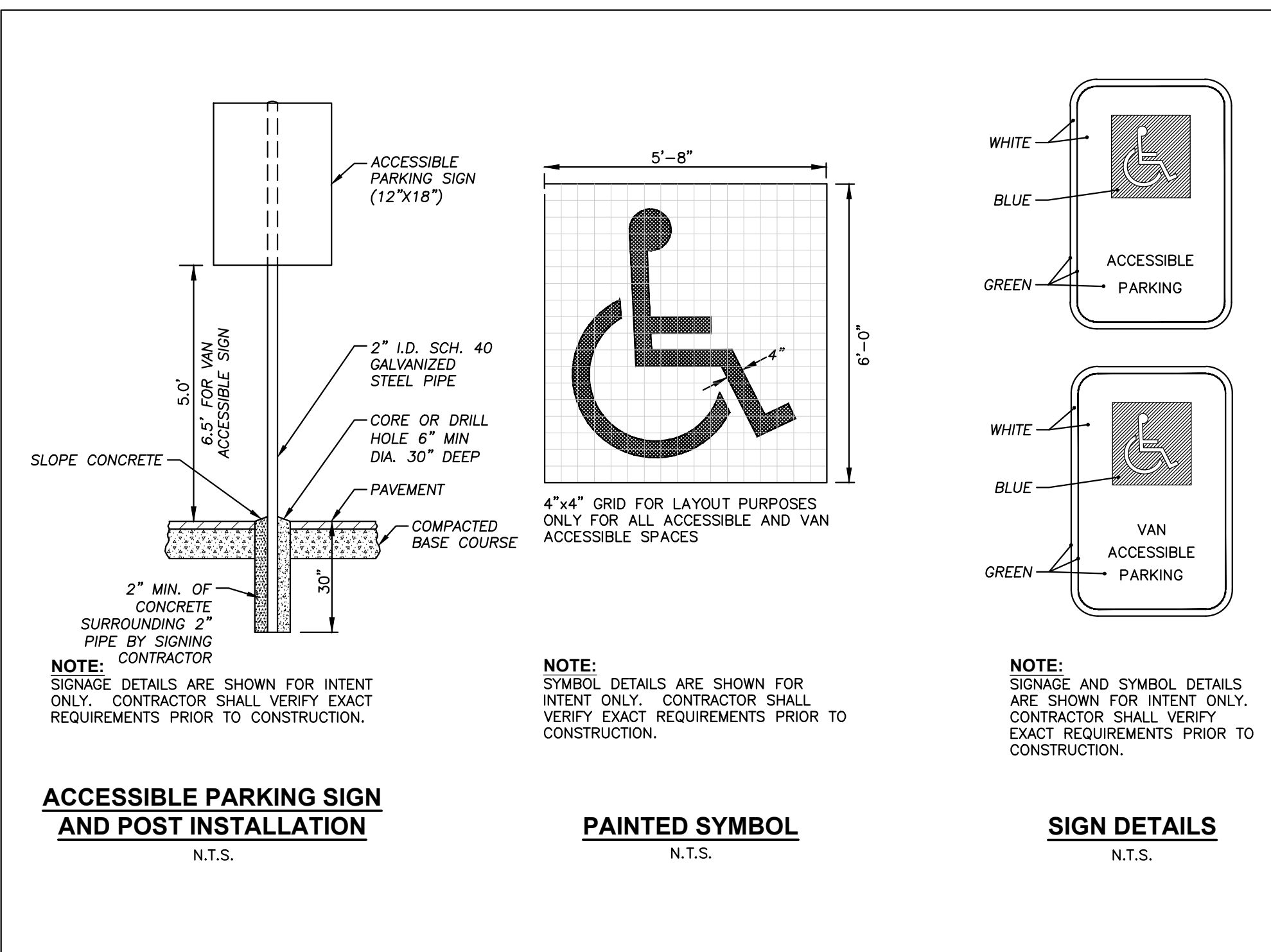
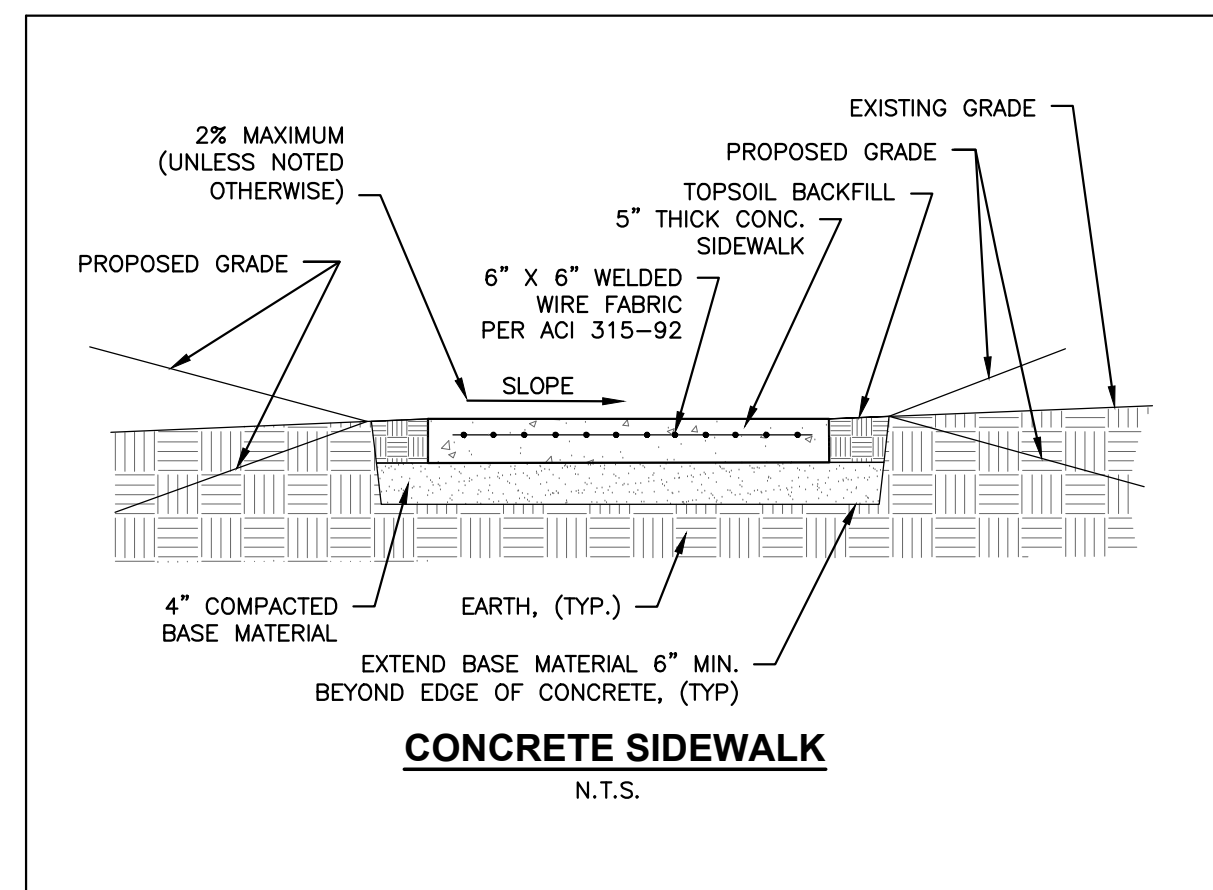
NEW BUILDING FOR:
MP SYSTEMS, INC.
EAST TROY BUSINESS PARK II
VILLAGE OF EAST TROY, WI

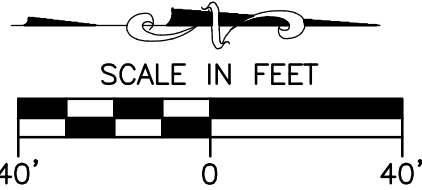
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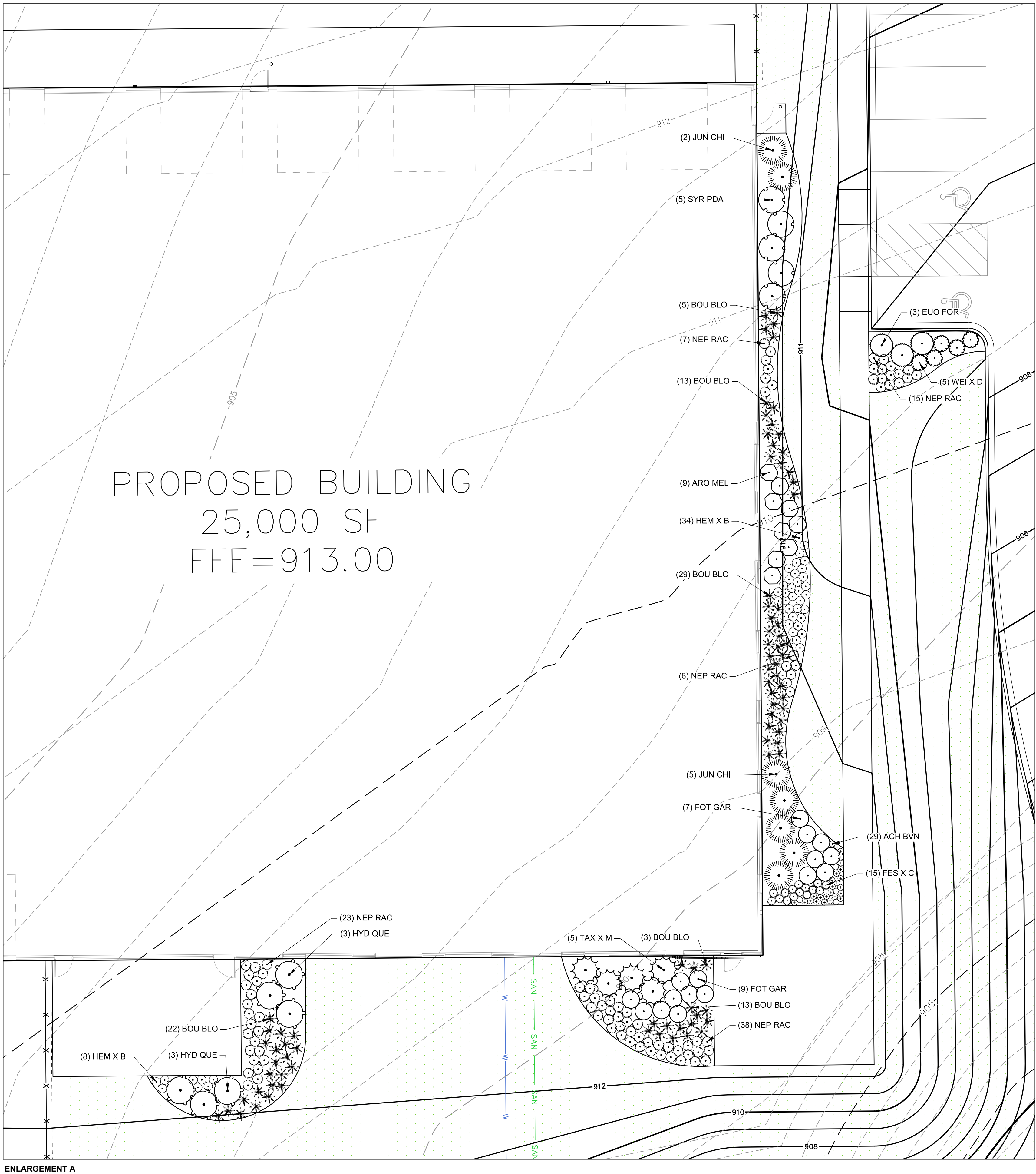
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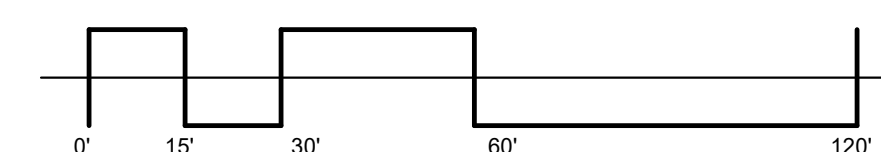


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MP SYSTEMS, INC.
EAST TROY BUSINESS PARK II
VILLAGE OF EAST TROY, WI 53120

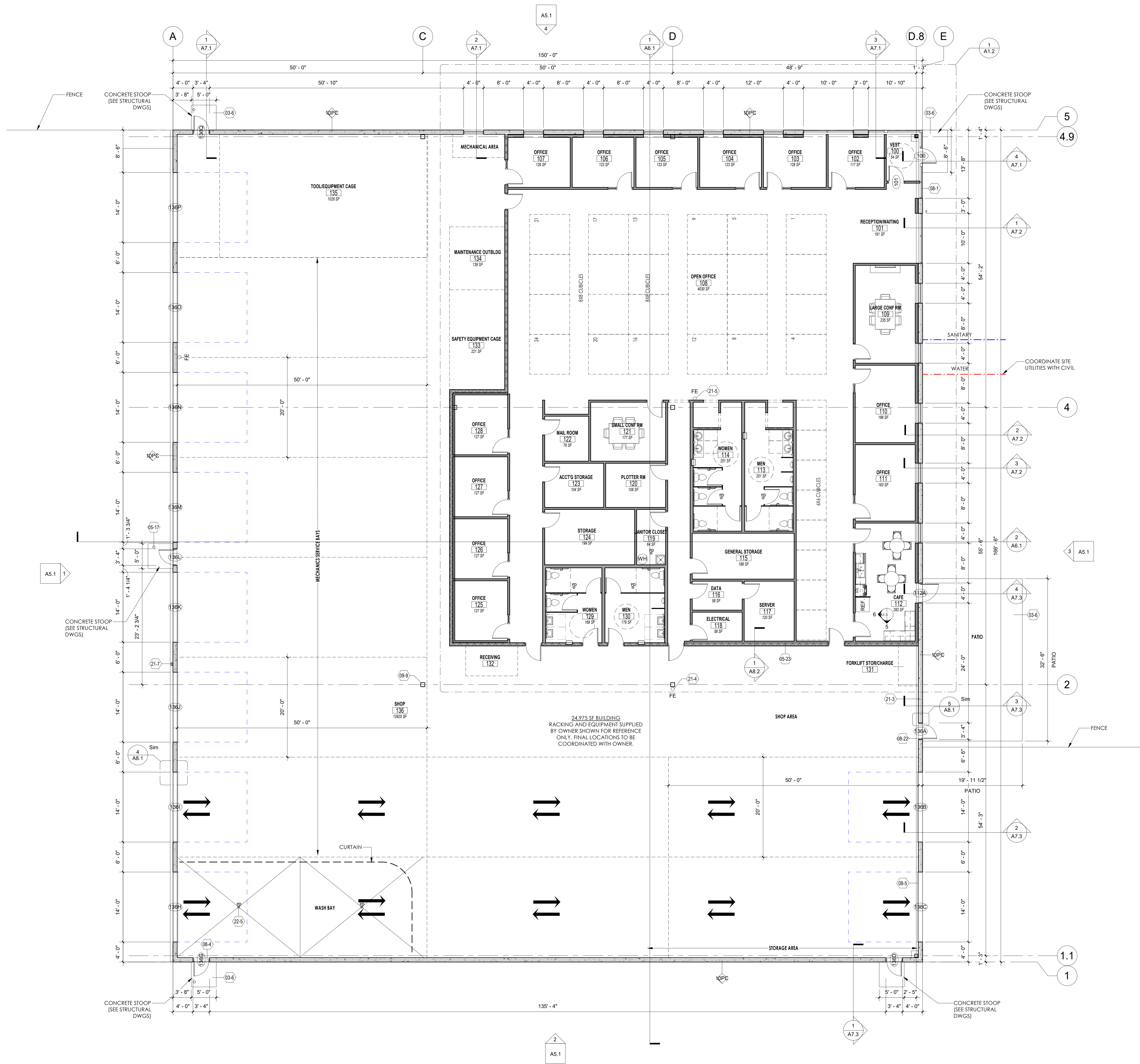
PROGRESS SET
NOT FOR CONSTRUCTION

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| JOB: | 3335 |
| DRAWN: | NS |
| CHECKED: | CW |
| DATE: | 09-24-2021 |
| SHEET: | |

A0.2



① SITE PLAN OVERALL OPTIONS
1" = 100'-0"



GENERAL NOTES - NEW FLOOR PLAN

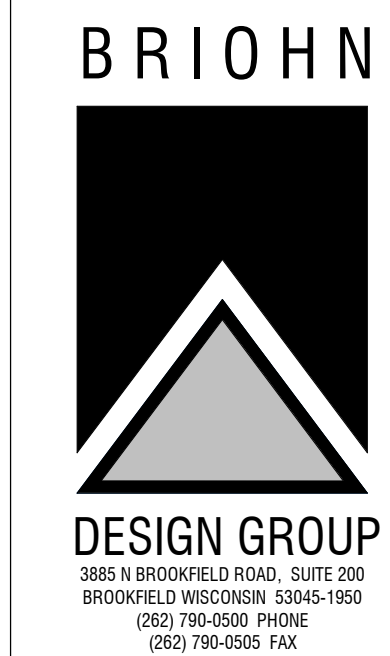
1. VERIFY ALL CONDITIONS, DIMENSIONS AND ALIGNMENT OF WALLS. BRING ANY DISCREPANCIES TO BRIOHN'S ATTENTION PRIOR TO FABRICATION/CONSTRUCTION BEGINS.
2. VERIFY LOCATION OF ACCESS PANELS WITH MECHANICAL AND ELECTRICAL DRAWINGS.
3. AREA SHALL BE KEPT BROOM CLEAN AND FREE OF DEBRIS DURING CONSTRUCTION.
4. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES.
5. SEE SHEET A0.1 FOR ADA REQUIREMENTS AND MOUNTING HEIGHTS.
6. SEE SHEET A1.2 FOR PARTITION TYPES AND FLOOR PLAN LEGEND.
7. EXTERIOR WALLS IN OFFICE AREA TO BE FURRED OUT WITH STUD HELD 1" OFF FACE OF EXTERIOR WALL. CAVITY FILLED WITH BATT INSULATION. SEE FLOOR PLAN FOR PARTITION TYPE.
8. FURNITURE AND APPLIANCES PROVIDED BY TENANT AND ARE SHOWN FOR REFERENCE ONLY.
9. ALL WALLS TO BE PAINTED PROVIDING FRP WAINSCOT WHERE CALLED FOR.
10. ALL FLOORS THROUGHOUT ARE TO BE SEALED CONCRETE WITH CAULKED CONTROL JOINTS.
11. EXPOSED STEEL DECKS, JOISTS, GIRDERS, AND COLUMNS ARE TO BE PRIME GREY.

| KEYNOTE LEGEND | |
|----------------|--|
| VALUE | FLOOR PLAN CODED NOTES |
| 03-6 | CONCRETE STOOP |
| 05-17 | 6" DIAMETER X 4'-0" TALL CONCRETE FILLED STEEL PIPE BOLLARDS, PAINTED SAFETY YELLOW. |
| 05-23 | OSHA COMPLIANT METAL ROOF ACCESS LADDER. |
| 08-1 | ALUMINUM STOREFRONT ENTRY SYSTEM |
| 08-4 | PAINTED HOLLOW METAL SERVICE DOOR AND FRAME WITH EMERGENCY EGRESS CODE REQUIRED LIGHTING (COLOR TO MATCH WALL COLOR). |
| 08-5 | INSULATED OH DOOR, FACTORY FINISHED WITH VISION WINDOWS. 6" DIAMETER X 4'-0" TALL CONCRETE FILLED STEEL PIPE BOLLARD(S), PAINTED SAFETY YELLOW |
| 08-22 | 3'-0" X 7'-0" INSULATED AND PAINTED GALVANIZED HOLLOW METAL DOOR AND FRAME WITH ADA HARDWARE AND EMERGENCY EGRESS CODE REQUIRED LIGHTING - PAINTED TO MATCH ADJACENT WALL COLOR. |
| 09-9 | EXPOSED COLUMN(S) TO BE PAINTED |
| 21-3 | SPRINKLER RISER AND FIRE DEPARTMENT CONNECTION, INCLUDE CODE REQUIRED ALARMS. COORDINATE WITH FIRE MARSHAL. |
| 21-4 | PROVIDE COLUMN-MOUNTED FIRE EXTINGUISHERS. PROVIDE SAFETY STRIPING ON ALL COLUMNS WITH EXTINGUISHERS. COORDINATE FINAL QUANTITY AND LOCATIONS WITH FIRE MARSHAL. |
| 21-5 | PROVIDE WALL-MOUNTED FIRE EXTINGUISHERS. COORDINATE FINAL QUANTITY AND LOCATIONS WITH FIRE MARSHAL. |
| 21-7 | FIRE DEPARTMENT CONNECTION AND ALARM AS REQUIRED BY LOCAL GOVERNING MUNICIPALITY - REFER FLOOR PLAN. |
| 22-5 | FLOOR DRAIN (TO SANITARY) - SEE PLUMBING FOR RIM ELEVATIONS |

FLOOR PLAN LEGEND

| | | |
|--------|---|--------------------------|
| ROOM | ROOM NAME | NEW PARTITION |
| 100 | ROOM NUMBER | |
| 100 | DOOR NUMBER | NEW MASONRY CONSTRUCTION |
| 1 | PARTITION TYPE | NEW DOOR & FRAME |
| 1 | PLAN NOTES | |
| 1 | SURFACE MOUNTED FIRE EXTINGUISHER | |
| F.E.C. | RECESSED EXTINGUISHER CABINET & FIRE EXTINGUISHER | |
| + | EXIT LIGHT | |
| + | EXIT LIGHT (DIRECTIONAL) | |

1 OVERALL FLOOR PLAN
1/8" = 1'-0"



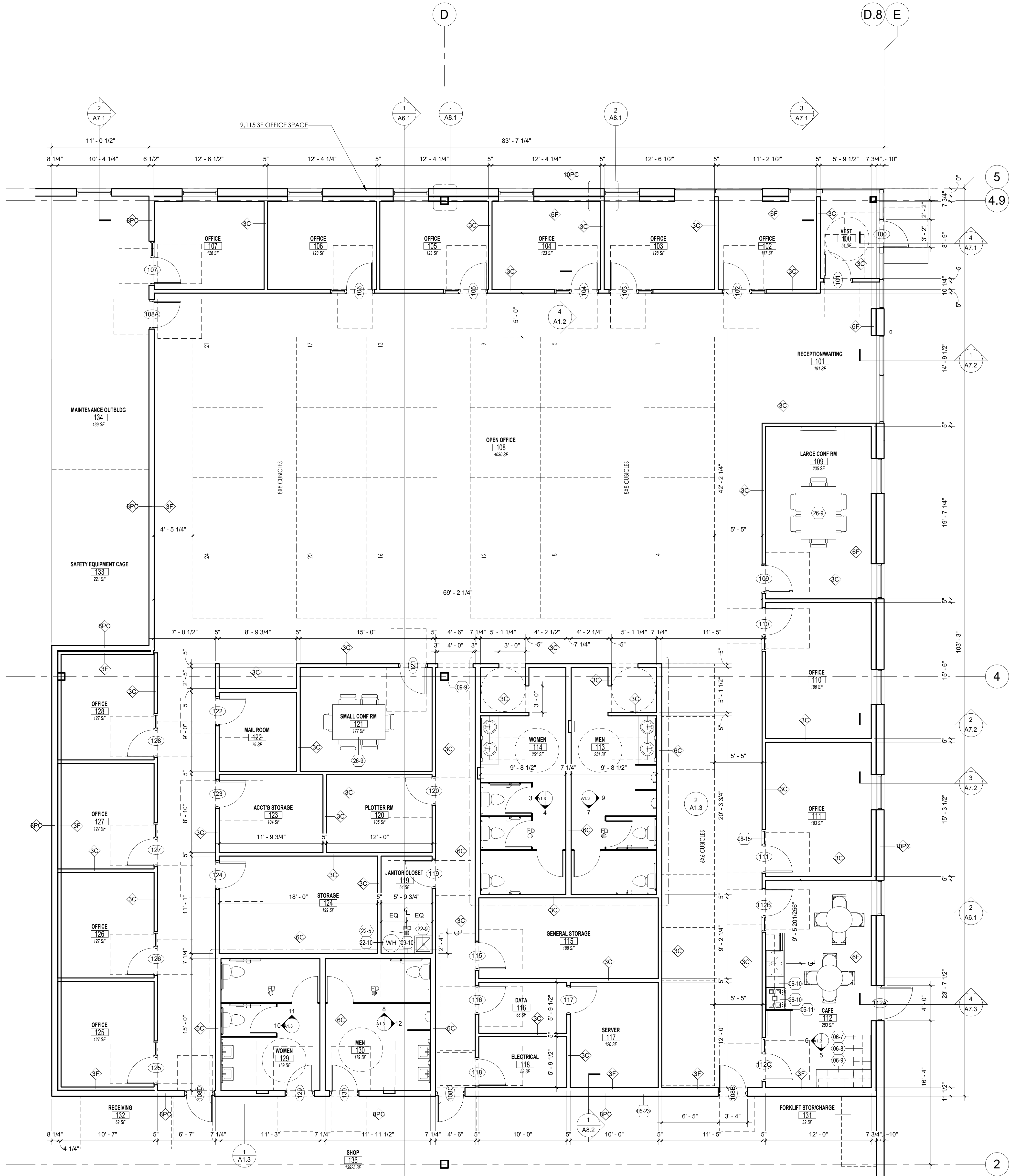
OVERALL FLOOR PLAN

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MP SYSTEMS, INC.
EAST TROY BUSINESS PARK II
VILLAGE OF EAST TROY, WI 53120

PROGRESS SET
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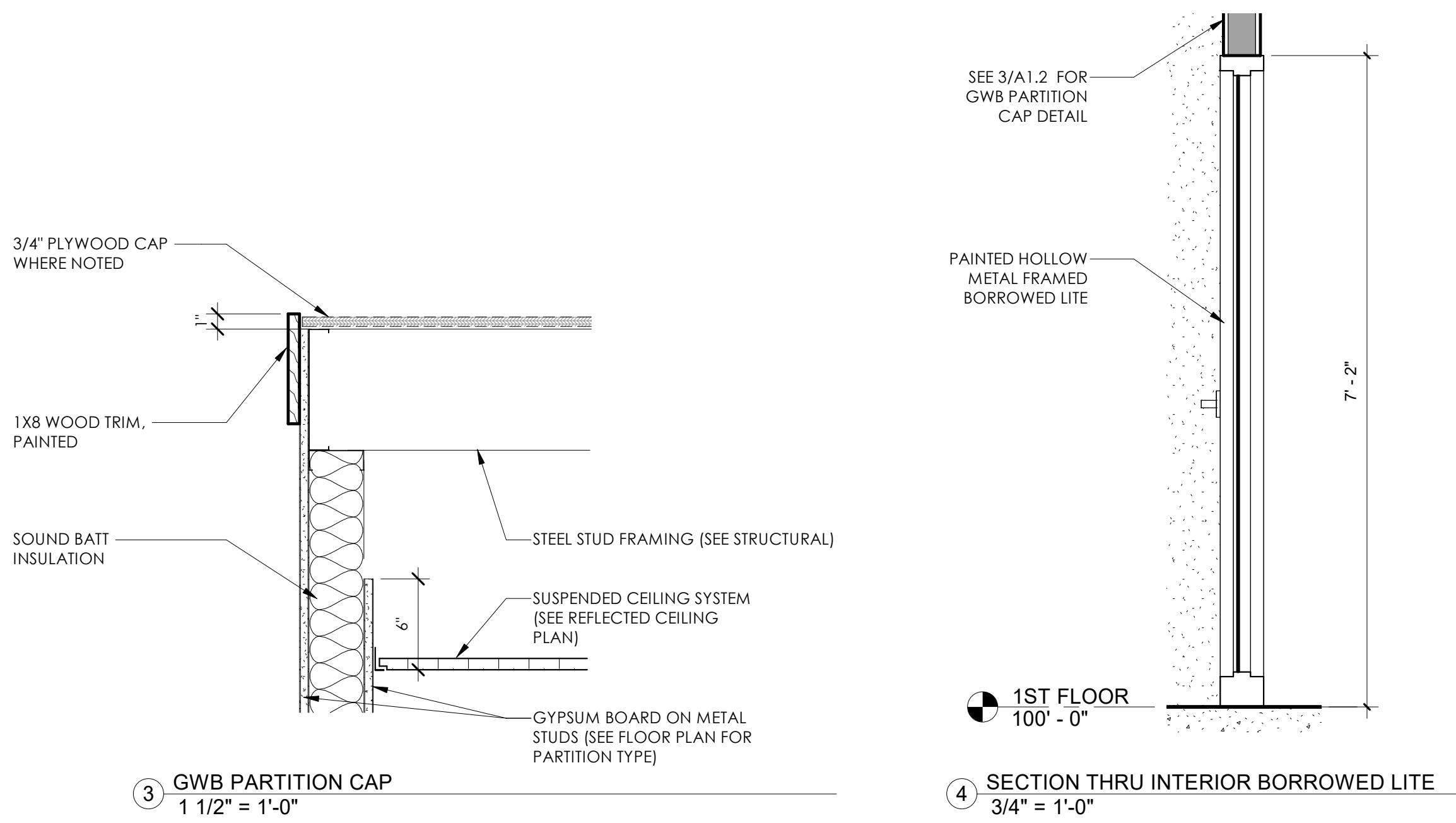
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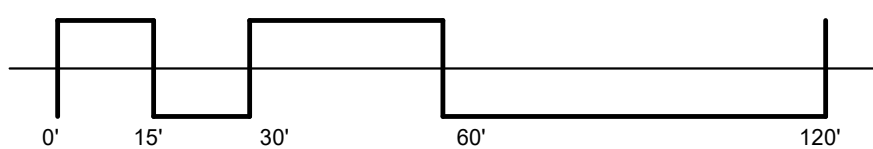


| FLOOR PLAN LEGEND | | |
|-------------------|---|--------------------------|
| ROOM | ROOM NAME | |
| 100 | DOOR NUMBER | NEW PARTITION |
| 100 | PARTITION TYPE | NEW MASONRY CONSTRUCTION |
| 1 | PLAN NOTES | NEW DOOR & FRAME |
| ⊕ | SURFACE MOUNTED FIRE EXTINGUISHER | |
| ⊕ | RECESSED EXTINGUISHER CABINET & FIRE EXTINGUISHER | |
| ⊕ | EXIT LIGHT | |
| ⊕ | EXIT LIGHT (DIRECTIONAL) | |

| KEYNOTE LEGEND | |
|----------------|---|
| 05-23 | OSHA COMPLIANT METAL ROOF ACCESS LADDER. |
| 06-7 | P.LAM. BASE CABINETS W/ADJ. SHELF |
| 06-8 | P.LAM. UPPER CABINETS W/ADJ. SHELVES AND APRON - PROVIDE LED STRIP LIGHTING |
| 06-9 | P.LAM. COUNTERTOP - NO BACKSPLASH |
| 06-10 | P.LAM. COUNTERTOP W/BACKSPLASH |
| 06-11 | Refrigerator divider panel |
| 08-15 | FULL HEIGHT TEMPERED BORROWED LITE WITH DOOR |
| 09-9 | EXPOSED COLUMN(S) TO BE PAINTED |
| 09-10 | FRP WALL FINISH TO 4'-0" A.F.F. BEHIND WALLS OF MOP SINK |
| 22-5 | FLOOR DRAIN (TO SANITARY) - SEE PLUMBING FOR RIM ELEVATIONS |
| 22-9 | FLOOR MOUNTED WATER HEATER, W/ FRP ON WALLS BEHIND FIXTURE TO 48" AFF; EXTEND FRP 24" BEYOND FIXTURE WIDTHS. FLOOR MOUNTED WATER HEATER. SEE PLUMBING DRAWINGS. |
| 22-10 | FLOOR MOUNTED WATER HEATER, W/ FRP ON WALLS BEHIND FIXTURE TO 48" AFF; EXTEND FRP 24" BEYOND FIXTURE WIDTHS. FLOOR MOUNTED WATER HEATER. SEE PLUMBING DRAWINGS. |
| 26-9 | CONTRACTOR TO PROVIDE CONDUIT IN WALL OR FLOOR FOR TENANT PROVIDED FURNITURE. TENANT TO PROVIDE VOICE/DATA CABLING. |
| 26-10 | PROVIDE POWER FOR ALL EQUIPMENT INCLUDING REFRIGERATOR, VENDING MACHINES, COFFEE MAKER, MICROWAVES AND OTHER KITCHEN EQUIPMENT PROVIDED BY TENANT. |



| PARTITION TYPES | | | | | | | | |
|---|----------------------|--|-------------------|---------------|--------------------------------|--|--------------------------------|--|
| TAG | STUD TYPE | STUD HEIGHT | INSULATION | VAPOR BARRIER | NOTED SIDE SURFACE MATERIAL | NOTED SIDE SURFACE HEIGHT | OPPOSITE SIDE SURFACE MATERIAL | OPPOSITE SIDE SURFACE HEIGHT |
| 3C | 4 5/8" STEEL STUDS | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | 4 1/2" SOUND BATT | --- | 5/8" TYPE "X" GYPSUM WALLBOARD | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | 5/8" TYPE "X" GYPSUM WALLBOARD | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) |
| 3F | 3 5/8" STEEL FURRING | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | 3 1/2" BATT | X | 5/8" TYPE "X" GYPSUM WALLBOARD | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | --- | --- |
| 6C | 6" STEEL STUDS | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | 6" SOUND BATT | --- | 5/8" TYPE "X" GYPSUM WALLBOARD | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | 5/8" TYPE "X" GYPSUM WALLBOARD | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) |
| 6F | 6" STEEL FURRING | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | 6" BATT | X | 5/8" TYPE "X" GYPSUM WALLBOARD | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | --- | --- |
| 8PC | UNINSULATED PRECAST | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | --- | --- | --- | --- | --- | --- |
| 10PC | UNINSULATED PRECAST | TO UNDERSIDE OF STRUCTURE (15'-0" +/-) | --- | --- | --- | --- | --- | --- |
| 1. ALL STEEL STUDS SHALL BE 25 GAUGE STUDS @ 16" O.C. (UNLESS NOTED OTHERWISE) - SEE STRUCTURAL FOR GAUGE AND SIZE 2. ALL EXPOSED GYPSUM WALL BOARD SHALL BE TAPED & COATED SMOOTH, READY FOR PAINT - LEVEL 4 FINISH 3. USE 6" METAL STUDS AND INSTALL MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL "WET WALL" LOCATIONS - UNO 4. AT EXTERIOR WALLS, RETURN GYPSUM WALL BOARD INTO WINDOW JAMBS AND HEAD 5. STUDS EXTENDED TO DECK AND/OR JOIST SHALL HAVE A SLIP CONNECTION TO ALLOW FOR DEFLECTION 6. PROVIDE CONTROL JOINTS IN GYPSUM FINISHES SUCH THAT THE MAXIMUM CONTROL JOIST SPACING FOR WALLS AND CEILINGS WITHOUT PERIMETER RELIEF IS 30 FEET, WITH PERIMETER RELIEF, CONTROL JOINT SPACING TO BE 50 FEET NOTE: AT FURRING WALLS AT THE EXTERIOR PRECAST WALL PANELS, PROVIDE A 1" GAP BETWEEN PRECAST WALL INTERIOR SIDE AND STEEL STUD FURRING SUCH THAT THE FURRING WALL IS SUPPORTED INDEPENDENTLY WITH SLIP CONNECTIONS. | | | | | | | | |

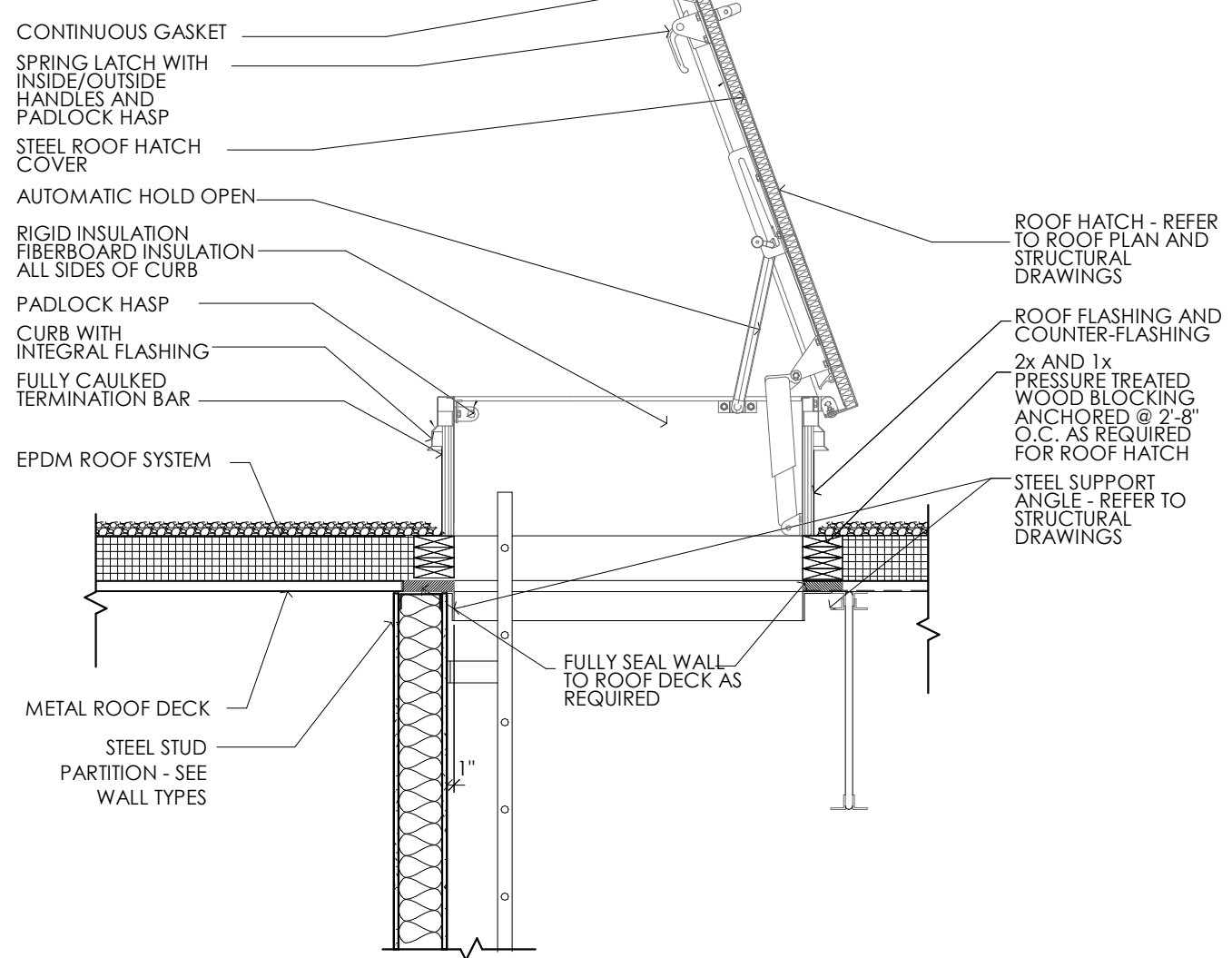


GENERAL NOTES - ROOF PLAN

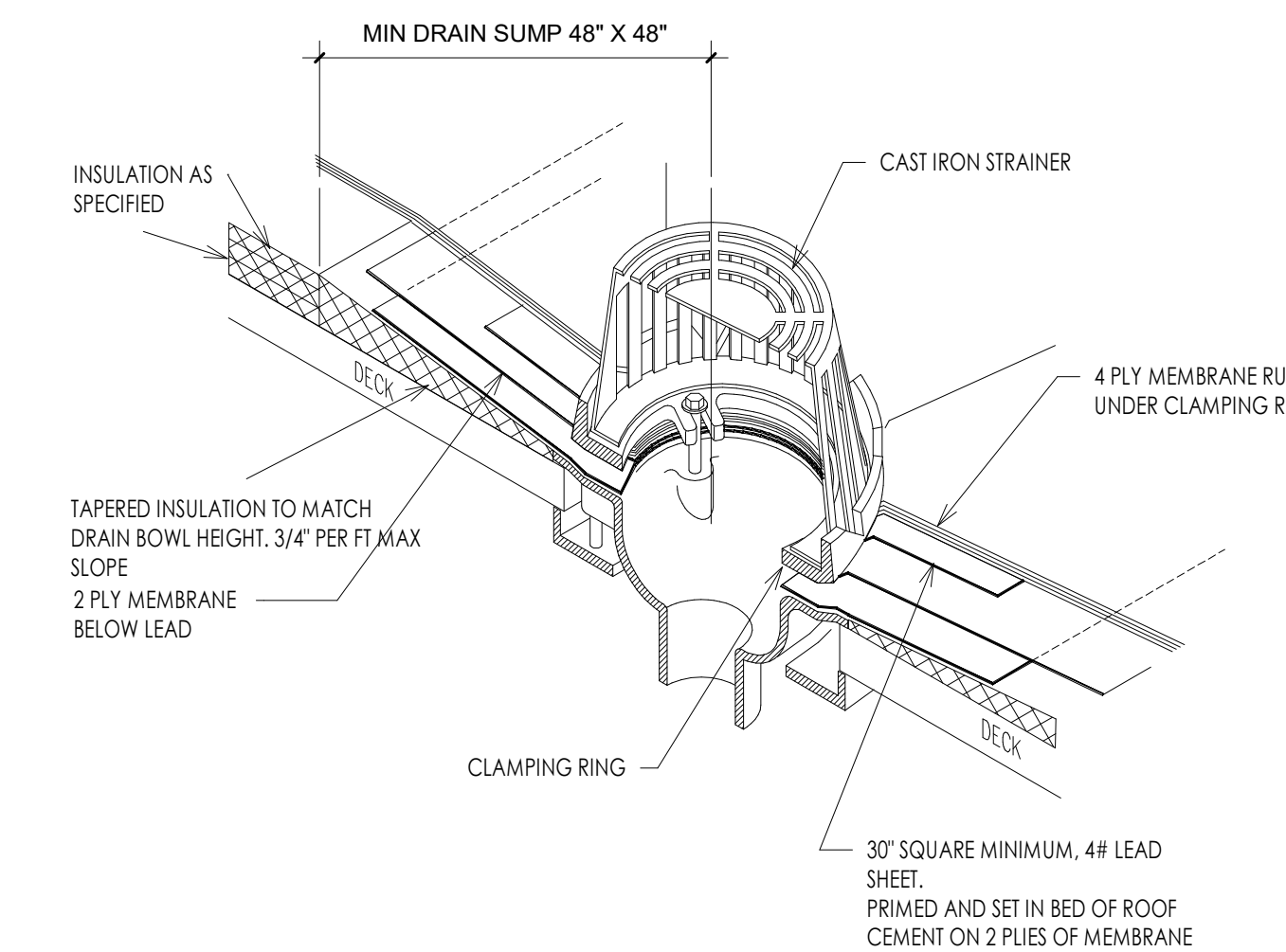
- 1 SEE STRUCTURAL DWGS FOR FURTHER STRUCTURAL INFORMATION.
- 2 COORDINATE ROOF SCREEN SIZE WITH MECHANICAL UNITS. SEE STUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- 3 SEE SHEET A8.1 FOR OTHER CANOPY AND TUBE SUN SHADES PLANS.
- 4 PROVIDE ROOF PAVERS AT ROOF HATCH AND AT ALL ROOF TOP UNITS. REFER TO HVAC PLAN BY OTHERS FOR LOCATIONS.
- 5 SEE SHEET A2.1 REFLECTED CEILING PLAN FOR CLERESTORY WINDOW DIMENSIONS.
- 6 PROVIDE ROOF HATCH NOT LESS THAN 16 S.F. IN AREA AND HAVING A MINIMUM DIMENSION OF 24".
- 7 PROVIDE ALL REQUIRED FLASHING FOR HVAC ROOF TOP EQUIPMENT, INCLUDING ROOF TOP UNITS AND EXHAUST FANS.
- 8 PROVIDE FLASHING FOR PLUMBING VENTS.
- 9 PROVIDE AND INSTALL ALL REQUIRED FLASHING AND BOOTS FOR ROOF TOP AND PARAPET WALL ELECTRICAL PENETRATIONS AND HVAC EQUIPMENT.
- 10 PROVIDE 20 YEAR MANUFACTURERS LABOR AND MATERIAL WARRANTY.

KEYNOTE LEGEND

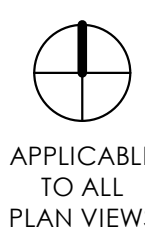
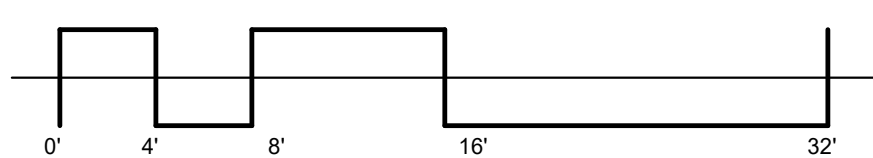
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| 05-10 | PRE-FINISHED METAL CAP/CORING ON SINGLE 2X PRESSURE TREATED WOOD BLOCKING. EXTEND RUBBER MEMBRANE FLASHING TO EXTEND UP AND OVER PT WOOD BLOCKING AND FULLY SEAL TO FACE OF PRE-CAST CONCRETE WALL PANEL. |
| 05-11 | PRE-FINISHED METAL 24 GA. GRAVEL STOP (COLOR TO BE 'CLEAR ANODIZED FINISH'), FASCIA AND RUBBER MEMBRANE FLASHING AND ROOFING. |
| 05-13 | ROOF DRAINS AND SUMP PANS - REFER TO STRUCTURAL. (SEE DETAIL "2" ON THIS SHEET) |
| 07-10 | ROOF ASSEMBLY A: BALLASTED ROOF MEMBRANE ON 5.75" DIRECT TO DECK APPROVED EPS INSULATION (R25 - TWO LAYERS, STAGGERED) ON METAL DECK & SLOPED STRUCTURAL FRAMING (SEE STRUCTURAL DRAWINGS) |
| 07-11 | ROOF ASSEMBLY C: FULLY ADHERED ROOF MEMBRANE ON TAPERED DIRECT TO DECK APPROVED EPS INSULATION, TAPER TO ROOF DRAIN (CANOPY ROOF) |
| 07-15 | PROVIDE PRE-FINISHED METAL DOWNSPOUT. COLOR AND FINISH TO MATCH CANOPY METAL. LOCATION SHOWN FOR REFERENCE ONLY - ROUTE DOWNSPOUT ALONG BUILDING FACE AS REQ. |
| 07-18 | PROVIDE TAPERED INSULATION CRICKETS ON HIGH SIDE OF RTU, ROOF HATCH, AND EQUIPMENT. |
| 07-20 | OVERFLOW ROOF DRAIN-SET 6" HIGHER THAN PRIMARY ROOF DRAIN |
| 08-3 | Roof hatch. Provide code-compliant hatch size, for use with asha-approved steel ladder access from floor below. Provide framing, curb, flashing, and tapered insulation for drainage around hatch as required. See detail 3/04.1 |
| 22-1 | PRIMARY ROOF DRAIN |
| 22-2 | OVERFLOW ROOF DRAIN-SET 2" HIGHER THAN PRIMARY ROOF DRAIN. EXTERIOR PIPE DISCHARGE THROUGH WALL. DO NOT PLACE PIPE OUTFALL DIRECTLY ABOVE EXTERIOR DOORS OR WINDOWS. COORD. PIPE SIZE WITH PLUMBING CONTRACTOR. |
| 22-3 | 'LAMBS-TONGUE' ROOF DRAIN OVERFLOW NOZZLE. SEE ROOF PLAN FOR ADDITIONAL NOTES. COORDINATE WALL PENETRATION WITH PRECAST SUPPLIER. |
| 23-2 | RTU-REFER TO HVAC DRAWINGS. PROVIDE FRAMING, CURB, FLASHING, AND TAPERED INSULATION FOR DRAINAGE AROUND HATCH AS REQUIRED. |



3 ROOF HATCH DETAIL
1/2" = 1'-0"



2 ROOF DRAIN DETAIL
1/2" = 1'-0"

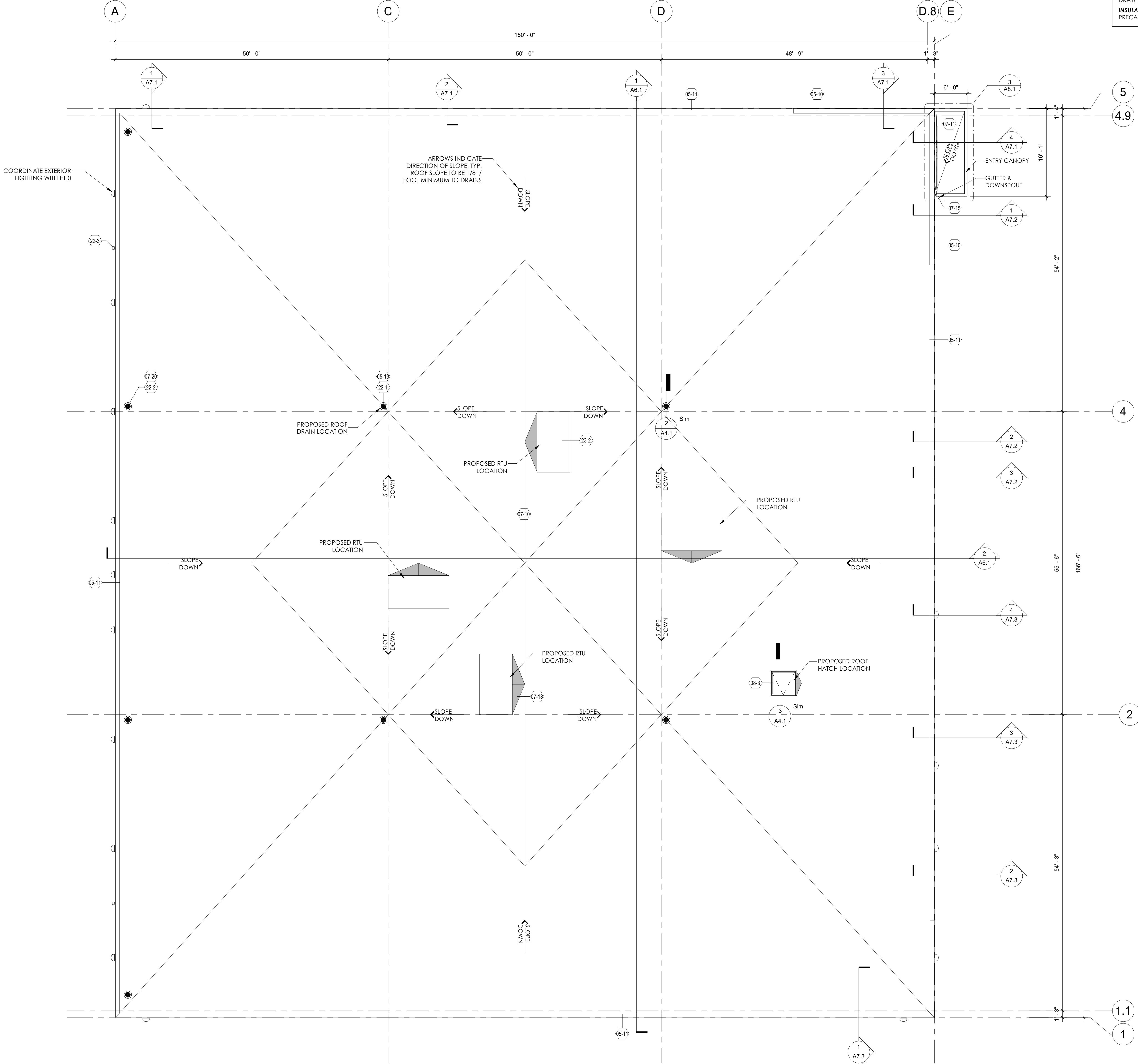


BUILDING SYSTEMS LEGEND

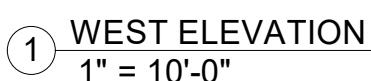
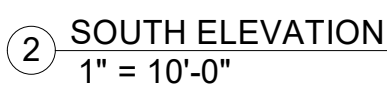
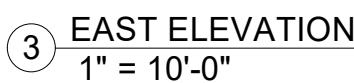
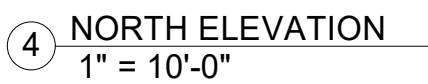
BALLASTED ROOF ASSEMBLY: BALLASTED 45 MIL. RUBBER ROOF MEMBRANE ON 5.75" DIRECT TO DECK APPROVED EPS INSULATION (R25 - TWO LAYERS, STAGGERED) ON METAL DECK (SEE STRUCTURAL DRAWINGS)

FULLY ADHERED CANOPY ROOF ASSEMBLY: FULLY ADHERED ROOF MEMBRANE ON TAPERED INSULATION AS REQUIRED TO SLOPE TO SCUPPER, ON METAL DECK (SEE STRUCTURAL DRAWINGS)

INSULATED PRECAST WALL PANEL SYSTEM: 10" INSULATED PRECAST CONCRETE WALL PANEL (R-14)



1 ROOF PLAN
1/8" = 1'-0"








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| 03-01 | EXTERIOR PRE-CAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED FINISH - LIGHT (SW 7036 ACACIOUS BEIGE) |
| 03-03 | EXTERIOR PRE-CAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED FINISH - DARK (SW 7046 ANONYMOUS) |
| 03-10 | VERTICAL PANEL JOINT, SEALED |
| 03-12 | 3/4" X 1/2" DEEP REINFORCED JOINT |
| 05-10 | PRE-FINISHED METAL CAP/CEILING ON SINGLE ZYB PRIMARY TREATED WOOD BLOCKING, DISCHARGE RUBBER MEMBRANE FLANGE TO EXTEND UP AND OVER FT WOOD BLOCKING AND FULLY SEAL TO FACE OF PRE-CAST CONCRETE WALL PANEL. |
| 05-11 | FINISHED METAL 24 GA. GRAVEL STOP [COLOR TO BE "CLEAR ANODIZED FINISH"], FASCIA AND RUBBER MEMBRANE FLASHING AND ROOFING. |
| 05-14 | PREFINISHED METAL LAMBS TONGUE SECONDARY DRAIN COVER |
| 05-16 | Pre finished metal 24 ga. Fascia on entry canopy. Color shall match adjacent wall color. |
| 06-01 | 6" DIAMETER X 4'-8" TALL CONCRETE FILLED STEEL PIPE BOLLARDS, PAINTED SAFETY YELLOW. |
| 07-07 | PRE FINISHED METAL 24 GA. GRAVEL STOP COLOR SHALL BE "CLEAR ANODIZED FINISH". |
| 07-15 | PROVIDE PRE-FINISHED METAL DOWNSPOUT. COLOR AND FINISH TO MATCH CANOPY METAL LOCATION SHOWN FOR REFERENCE ONLY - ROUTE DOWNSPOUT ALONG BUILDING FACE AS REQ. |
| 07-20 | OVERFLOW ROOF DRAIN SET 6" HIGHER THAN PRIMARY ROOF DRAIN |
| 08-1 | ALUMINUM STOREFRONT ENTRY SYSTEM |
| 08-2 | ALUMINUM STOREFRONT |
| 08-3 | Roof hatch. Provide code-compliant hatch size, for use with osha-approved steel ladder access from floor below. Provide framing, curb, flashing, and tapered insulation for drainage around hatch as required. See detail 3/g.1. |
| 08-4 | PAINTED HOLLOW METAL SERVICE DOW AND FRAME WITH EMERGENCY EGRESS CODE REQUIRED LIGHTING [COLOR TO MATCH WALL COLOR] |
| 08-6 | Insulated overhead door factory finished |
| 08-7 | Pre finished clear anodized aluminum framed (thermally broken) and 1" insulated low-e blue tinted window units with blue spandrel where noted. |
| 08-22 | Pre finished clear anodized aluminum framed (thermally broken) storefront entry door w/ 1" insulated low-e blue tinted glazing |
| 08-28 | 3'-0" X 7'-0" INSULATED AND PAINTED GALVANIZED HOLLOW METAL DOW AND FRAME WITH ADA HARDWARE AND EMERGENCY EGRESS CODE REQUIRED LIGHTING - PAINTED TO MATCH ADJACENT WALL COLOR. |
| 21-7 | FIRE DEPARTMENT CONNECTION AND ALARM AS REQUIRED BY LOCAL GOVERNING MUNICIPALITY - REFER FLOOR PLAN. |
| 22-2 | OVERFLOW ROOF DRAIN SET 6" HIGHER THAN PRIMARY ROOF DRAIN. EXTERIOR PIPE DISCHARGE RUBBER MEMBRANE FLANGE TO EXTEND UP AND OVER PLATE PIPE OUTLET DIRECTLY ABOVE EXTERIOR DOORS OR WINDOWS. COORD. PIPE SIZE WITH PLUMBING CONTRACTOR. |
| 23 | LAMBS-TONGUE ROOF DRAIN OVERFLOW NOZZLE. SEE ROOF PLAN FOR ADDITIONAL NOTES. COORDINATE WALL PENETRATION WITH PRECAST SUPPLIER. |
| 26-11 | EXTERIOR LIGHT FIXTURE - CUT-OFF LED WALLPACK - SEE LIGHTING PLAN FOR FIXTURE TYPE AND MOUNTING HEIGHT |
| 26-11 | BACKLIT BUILDING SIGNAGE |



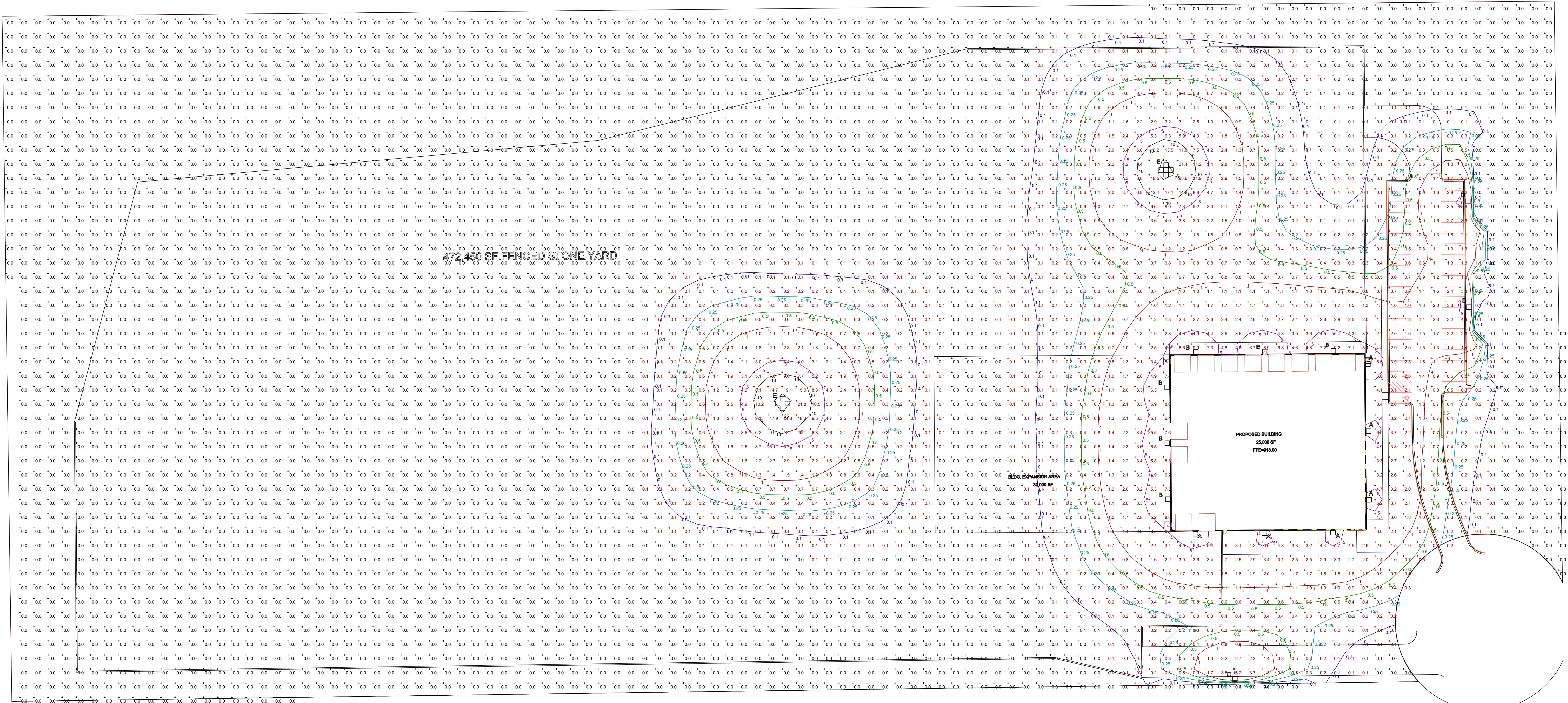
SHEET TITLE
EXTERIOR PERSPECTIVES

NEW BUILDING FOR:
MP SYSTEMS, INC.
EAST TROY BUSINESS PARK II
VILLAGE OF EAST TROY, WI 53120

| PROGRESS SET NOT FOR CONSTRUCTION | |
|--------------------------------------|------------|
| Revision | |
| Date | |
| JOB: | 3335 |
| DRAWN: | NS |
| CHECKED: | CW |
| DATE: | 09-24-2021 |
| SHEET: | |

| Schedule | | | | | | | | |
|---|-------|-----|-------------------|----------------|--|---------------|-----------------|---------|
| Symbol | Label | QTY | Manufacturer | Catalog Number | Description | Filename | Lumens per lamp | Wattage |
|  | A | 6 | RAB Lighting Inc. | A17-4T100 | Wall pack mounted at 22' | a17-4t100.lvs | 13928 | 97.56 |
|  | B | 6 | RAB Lighting Inc. | A17-4T150 | Wall pack mounted at 22' | a17-4t150.lvs | 21378 | 149.17 |
|  | C | 1 | RAB Lighting Inc. | A17-3T70 | 1-Head Pole 20' pole mounted on a 2" base with back-light shield | a17-3t70.lvs | 10234 | 69.84 |
|  | D | 2 | RAB Lighting Inc. | A17-4T100 | 1-Head Pole 20' pole mounted on a 2" base with back-light shield | a17-4t100.lvs | 13928 | 97.56 |
|  | E | 2 | RAB Lighting Inc. | A17-4T150 | 4-Head Pole 20' pole mounted on a 3" base | a17-4t150.lvs | 21378 | 149.17 |

| Statistics | | | | | |
|-------------|--------|------|-------|------|---------|
| Description | Symbol | Avg | Max | Min | Avg/Min |
| Concave ft | + | 0.9% | 30.9% | 0.0% | N/A |





RESIDENTIAL • COMMERCIAL • INDUSTRIAL

227 Weil Drive • Slinger, WI 53086

Phone(262)644-6940 • Fax(262)644-7647

MP Systems

Exterior Lighting Submittal 9-24-2021



Color: Bronze

Weight: 11.2 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

| | |
|-------------|------------------|
| Type | Constant Current |
| 120V | 1.0A |
| 208V | 0.60A |
| 240V | 0.50A |
| 277V | 0.40A |
| Input Watts | 97.56W |

LED Info

| | |
|----------------|---------------|
| Watts | 100W |
| Color Temp | 5000K (Cool) |
| Color Accuracy | 70 CRI |
| L70 Lifespan | 100,000 Hours |
| Lumens | 13,928 |
| Efficacy | 142.8 lm/W |

Technical Specifications**Compliance****UL Listed:**

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: PLT122DDPWDU

Electrical**Driver:**

Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 1.50A, 208V: 0.70A, 240V: 0.70A, 277V: 0.60A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.5% at 120V, 10.8% at 277V

Power Factor:

99.9 % at 120V, 94.1 % at 277V

Surge Protection:

10kV

Performance**Lifespan:**

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction**IES Classification:**

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Lens:

Polycarbonate lens

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Technical Specifications (continued)

Construction

IP Rating:

Ingress protection rating of IP65 for dust and water

Vibration Rating:

3G vibration rating per ANSI C136.31

EPA:

- 1 Fixture: 0.46
- 2 Fixtures at 90°: 0.60
- 2 Fixtures at 180°: 0.93
- 3 Fixtures at 90°: 0.93
- 4 Fixtures at 90°: 0.93

EPA with Slipfitter & Adjustable Arm Mounting Accessories (Sold Separately)

- 1 Fixture: 0.66
- 2 Fixtures at 90°: 0.80
- 2 Fixtures at 180°: 1.32
- 3 Fixtures at 90°: 1.32
- 4 Fixtures at 90°: 1.32

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:

Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Other

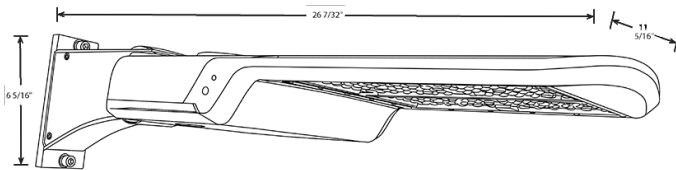
5 Yr Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, Limited Warranty

Ordering Matrix

| Family | Distribution | Wattage/Lumens | Mounting | Color Temp | Driver | Options |
|--------|---|--|--|---|--|--|
| A17 | - | 4T | 100 | | | |
| | 3T = Type III 4T = Type IV 5T = Type V | 70 = 70W/10,000LM 100 = 100W/15,000LM 150 = 150W/22,500LM 200 = 200W/30,000LM 240 = 240W/36,000LM 300 = 300W/45,000LM 375 = 375W/51,800LM | Blank = Universal Pole Mount SF = Slipfitter (Factory installed SF available in 150W) | Blank = 5000K (Cool) N = 4000K (Neutral) | Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming ¹ | Blank = No Option /3PRS = 3-pin Receptacle and Shorting Cap /7PRS = 7-pin Receptacle and Shorting Cap /MVS = Microwave Motion Sensor /LC = Lightcloud® Controller |

¹ 480V driver available standard on 150W and 300W. All other models are special order.
 Type II distribution available as special order
 Wall mount and adjustable universal pole mount available as optional field-installed accessories



Color: Bronze

Weight: 13.2 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

| | |
|-------------|------------------|
| Type | Constant Current |
| 120V | 1.50A |
| 208V | 0.80A |
| 240V | 0.70A |
| 277V | 0.06A |
| Input Watts | 149.17W |

LED Info

| | |
|----------------|---------------|
| Watts | 150W |
| Color Temp | 5000K (Cool) |
| Color Accuracy | 70 CRI |
| L70 Lifespan | 100,000 Hours |
| Lumens | 21,378 |
| Efficacy | 143.3 lm/W |

Technical Specifications**Compliance****UL Listed:**

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: PLA17VEV0J4H

Electrical**Driver:**

Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 1.50A, 208V: 0.70A, 240V: 0.70A, 277V: 0.60A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.54% at 120V, 9.1% at 277V

Power Factor:

99.7% at 120V, 93.2% at 277V

Surge Protection:

10kV

Performance**Lifespan:**

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction**IES Classification:**

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Lens:

Polycarbonate lens

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Technical Specifications (continued)

Construction

IP Rating:

Ingress protection rating of IP65 for dust and water

Vibration Rating:

3G vibration rating per ANSI C136.31

EPA:

- 1 Fixture: 0.46
- 2 Fixtures at 90°: 0.60
- 2 Fixtures at 180°: 0.93
- 3 Fixtures at 90°: 0.93
- 4 Fixtures at 90°: 0.93

EPA with Slipfitter & Adjustable Arm Mounting Accessories (Sold Separately)

- 1 Fixture: 0.66
- 2 Fixtures at 90°: 0.80
- 2 Fixtures at 180°: 1.32
- 3 Fixtures at 90°: 1.32
- 4 Fixtures at 90°: 1.32

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:

Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Other

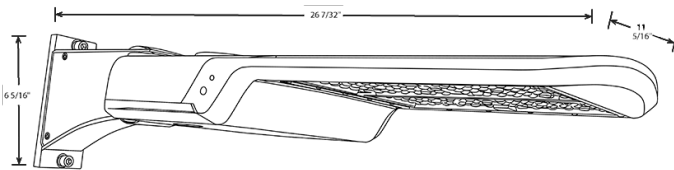
5 Yr Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, Limited Warranty

Ordering Matrix

| Family | Distribution | Wattage/Lumens | Mounting | Color Temp | Driver | Options |
|--------|--|---|--|---|--|---|
| A17 | - | 4T | 150 | | | |
| | 3T = Type III 4T = Type IV 5T = Type V | 70 = 70W/10,000LM 100 = 100W/15,000LM 150 = 150W/22,500LM 200 = 200W/30,000LM 240 = 240W/36,000LM 300 = 300W/45,000LM 375 = 375W/51,800LM | Blank = Universal Pole Mount SF = Slipfitter (Factory installed SF available in 150W) | Blank = 5000K (Cool) N = 4000K (Neutral) | Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming ¹ | Blank = No Option /3PRS = 3-pin Receptacle and Shorting Cap /7PRS = 7-pin Receptacle and Shorting Cap /MVS = Microwave Motion Sensor /LC = Lightcloud® Controller |

¹ 480V driver available standard on 150W and 300W. All other models are special order.
Type II distribution available as special order
Wall mount and adjustable universal pole mount available as optional field-installed accessories



Color: Bronze

Weight: 10.8 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

| | |
|-------------|------------------|
| Type | Constant Current |
| 120V | 0.70A |
| 208V | 0.40A |
| 240V | 0.35A |
| 277V | 0.30A |
| Input Watts | 69.84W |

LED Info

| | |
|----------------|---------------|
| Watts | 70W |
| Color Temp | 5000K (Cool) |
| Color Accuracy | 72 CRI |
| L70 Lifespan | 100,000 Hours |
| Lumens | 10,234 |
| Efficacy | 146.5 lm/W |

Technical Specifications**Compliance****UL Listed:**

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: PLDHBT6T92Z4

Electrical**Driver:**

Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 0.70A, 208V: 0.40A, 240V: 0.35A, 277V: 0.30A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.24% at 120V, 13.52% at 277V

Power Factor:

99.6% at 120V, 91.7% at 277V

Surge Protection:

10kV

Performance**Lifespan:**

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction**IES Classification:**

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Lens:

Polycarbonate lens

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Technical Specifications (continued)

Construction

IP Rating:

Ingress protection rating of IP65 for dust and water

Vibration Rating:

3G vibration rating per ANSI C136.31

EPA:

- 1 Fixture: 0.46
- 2 Fixtures at 90°: 0.60
- 2 Fixtures at 180°: 0.93
- 3 Fixtures at 90°: 0.93
- 4 Fixtures at 90°: 0.93

EPA with Slipfitter & Adjustable Arm Mounting Accessories (Sold Separately)

- 1 Fixture: 0.66
- 2 Fixtures at 90°: 0.80
- 2 Fixtures at 180°: 1.32
- 3 Fixtures at 90°: 1.32
- 4 Fixtures at 90°: 1.32

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:

Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Other

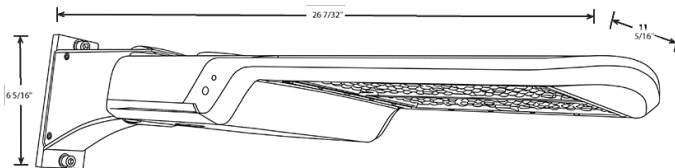
5 Yr Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, Limited Warranty

Ordering Matrix

| Family | Distribution | Wattage/Lumens | Mounting | Color Temp | Driver | Options |
|--------|---|--|--|---|--|--|
| A17 | - | 3T | 70 | | | |
| | 3T = Type III 4T = Type IV 5T = Type V | 70 = 70W/10,000LM 100 = 100W/15,000LM 150 = 150W/22,500LM 200 = 200W/30,000LM 240 = 240W/36,000LM 300 = 300W/45,000LM 375 = 375W/51,800LM | Blank = Universal Pole Mount SF = Slipfitter (Factory installed SF available in 150W) | Blank = 5000K (Cool) N = 4000K (Neutral) | Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming ¹ | Blank = No Option /3PRS = 3-pin Receptacle and Shorting Cap /7PRS = 7-pin Receptacle and Shorting Cap /MVS = Microwave Motion Sensor /LC = Lightcloud® Controller |

¹ 480V driver available standard on 150W and 300W. All other models are special order.
 Type II distribution available as special order
 Wall mount and adjustable universal pole mount available as optional field-installed accessories

A17-4T100

Type: D

- 20' pole on a 2' base
- With back light shields

RAB



Color: Bronze

Weight: 11.2 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

| Type | Constant Current |
|-------------|------------------|
| 120V | 1.0A |
| 208V | 0.60A |
| 240V | 0.50A |
| 277V | 0.40A |
| Input Watts | 97.56W |

LED Info

| | |
|----------------|---------------|
| Watts | 100W |
| Color Temp | 5000K (Cool) |
| Color Accuracy | 70 CRI |
| L70 Lifespan | 100,000 Hours |
| Lumens | 13,928 |
| Efficacy | 142.8 lm/W |

Technical Specifications

Compliance

UL Listed:

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.
DLC Product Code: PLT122DDPWDU

Electrical

Driver:

Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 1.50A, 208V: 0.70A, 240V: 0.70A, 277V: 0.60A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.5% at 120V, 10.8% at 277V

Power Factor:

99.9 % at 120V, 94.1 % at 277V

Surge Protection:

10kV

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction

IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Lens:

Polycarbonate lens

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Technical Specifications (continued)

Construction

IP Rating:

Ingress protection rating of IP65 for dust and water

Vibration Rating:

3G vibration rating per ANSI C136.31

EPA:

- 1 Fixture: 0.46
- 2 Fixtures at 90°: 0.60
- 2 Fixtures at 180°: 0.93
- 3 Fixtures at 90°: 0.93
- 4 Fixtures at 90°: 0.93

EPA with Slipfitter & Adjustable Arm Mounting Accessories (Sold Separately)

- 1 Fixture: 0.66
- 2 Fixtures at 90°: 0.80
- 2 Fixtures at 180°: 1.32
- 3 Fixtures at 90°: 1.32
- 4 Fixtures at 90°: 1.32

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:

Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Other

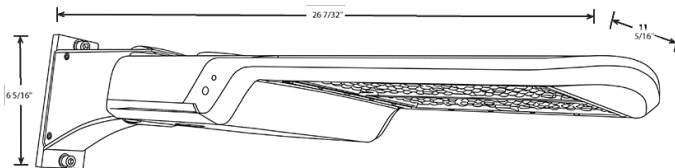
5 Yr Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, Limited Warranty

Ordering Matrix

| Family | Distribution | Wattage/Lumens | Mounting | Color Temp | Driver | Options |
|--------|--|---|--|---|--|---|
| A17 | - | 4T | 100 | | | |
| | 3T = Type III 4T = Type IV 5T = Type V | 70 = 70W/10,000LM 100 = 100W/15,000LM 150 = 150W/22,500LM 200 = 200W/30,000LM 240 = 240W/36,000LM 300 = 300W/45,000LM 375 = 375W/51,800LM | Blank = Universal Pole Mount SF = Slipfitter (Factory installed SF available in 150W) | Blank = 5000K (Cool) N = 4000K (Neutral) | Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming ¹ | Blank = No Option /3PRS = 3-pin Receptacle and Shorting Cap /7PRS = 7-pin Receptacle and Shorting Cap /MVS = Microwave Motion Sensor /LC = Lightcloud® Controller |

¹ 480V driver available standard on 150W and 300W. All other models are special order.

Type II distribution available as special order

Wall mount and adjustable universal pole mount available as optional field-installed accessories



Color: Bronze

Weight: 13.2 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

| | |
|-------------|------------------|
| Type | Constant Current |
| 120V | 1.50A |
| 208V | 0.80A |
| 240V | 0.70A |
| 277V | 0.06A |
| Input Watts | 149.17W |

LED Info

| | |
|----------------|---------------|
| Watts | 150W |
| Color Temp | 5000K (Cool) |
| Color Accuracy | 70 CRI |
| L70 Lifespan | 100,000 Hours |
| Lumens | 21,378 |
| Efficacy | 143.3 lm/W |

Technical Specifications**Compliance****UL Listed:**

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: PLA17VEV0J4H

Electrical**Driver:**

Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 1.50A, 208V: 0.70A, 240V: 0.70A, 277V: 0.60A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.54% at 120V, 9.1% at 277V

Power Factor:

99.7% at 120V, 93.2% at 277V

Surge Protection:

10kV

Performance**Lifespan:**

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction**IES Classification:**

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Lens:

Polycarbonate lens

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Technical Specifications (continued)

Construction

IP Rating:

Ingress protection rating of IP65 for dust and water

Vibration Rating:

3G vibration rating per ANSI C136.31

EPA:

- 1 Fixture: 0.46
- 2 Fixtures at 90°: 0.60
- 2 Fixtures at 180°: 0.93
- 3 Fixtures at 90°: 0.93
- 4 Fixtures at 90°: 0.93

EPA with Slipfitter & Adjustable Arm Mounting Accessories (Sold Separately)

- 1 Fixture: 0.66
- 2 Fixtures at 90°: 0.80
- 2 Fixtures at 180°: 1.32
- 3 Fixtures at 90°: 1.32
- 4 Fixtures at 90°: 1.32

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:

Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Other

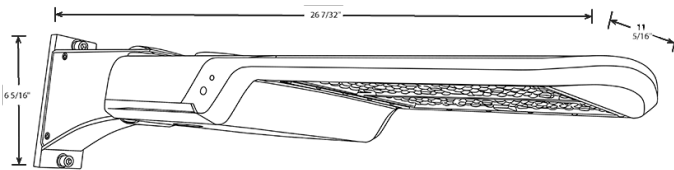
5 Yr Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, Limited Warranty

Ordering Matrix

| Family | Distribution | Wattage/Lumens | Mounting | Color Temp | Driver | Options |
|--------|--|---|--|---|--|---|
| A17 | - | 4T | 150 | | | |
| | 3T = Type III 4T = Type IV 5T = Type V | 70 = 70W/10,000LM 100 = 100W/15,000LM 150 = 150W/22,500LM 200 = 200W/30,000LM 240 = 240W/36,000LM 300 = 300W/45,000LM 375 = 375W/51,800LM | Blank = Universal Pole Mount SF = Slipfitter (Factory installed SF available in 150W) | Blank = 5000K (Cool) N = 4000K (Neutral) | Blank = 120-277V, 0-10V Dimming /480 = 480V, 0-10V Dimming ¹ | Blank = No Option /3PRS = 3-pin Receptacle and Shorting Cap /7PRS = 7-pin Receptacle and Shorting Cap /MVS = Microwave Motion Sensor /LC = Lightcloud® Controller |

¹ 480V driver available standard on 150W and 300W. All other models are special order.
Type II distribution available as special order
Wall mount and adjustable universal pole mount available as optional field-installed accessories



Square steel poles drilled for 2 Area Lights at 180°. Designed for ground mounting. Poles are stocked nationwide for quick shipment. Protective packaging ensures poles arrive at the job site good as new.

Color: Bronze

Weight: 136.7 lbs

Project:

Type:

Prepared By:

Date:

Technical Specifications

Compliance

CSA Listed:

Suitable for wet locations

Construction

Shaft:

46,000 p.s.i. minimum yield.

Hand Holes:

Reinforced with grounding lug and removable cover

Base Plates:

Slotted base plates 36,000 p.s.i.

Shipping Protection:

All poles are shipped in individual corrugated cartons to prevent finish damage

Color:

Bronze powder coating

Height:

20 FT

Weight:

137 lbs

Gauge:

11

Wall Thickness:

1/8"

Shaft Size:

4"

Hand Hole Dimensions:

3" x 5"

Bolt Circle:

8 1/2"

Base Dimension:

8"

Technical Specifications (continued)

Construction

Anchor Bolt:

Galvanized anchor bolts and galvanized hardware and anchor bolt template. All bolts have a 3" hook.

Anchor Bolt Templates:

WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available [online](#).

Pre-Shipped Anchor Bolts:

Bolts can be pre-shipped upon request for additional freight charge

Max EPA's/Max Weights:

70MPH 10.7 ft./360 lb.
80MPH 7.0 ft./350 lb.
90MPH 4.3 ft./350 lb.
100MPH 2.5 ft./350 lb.
110MPH 1.1 ft./350 lb.
120MPH 0.1 ft./340lb

Other

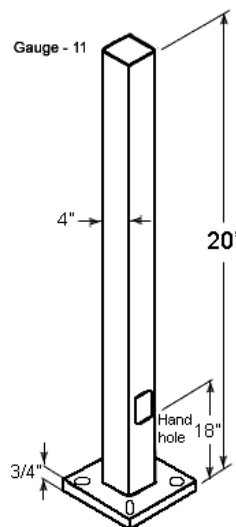
Terms of Sale:

Pole Terms of Sale is available [online](#).

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- Designed for ground mounting
- Heavy duty TGIC polyester coating
- Reinforced hand holes with grounding lug and removable cover for easy wiring access
- Pole caps, base covers & bolts are sold separately
- Custom manufactured for each application