



PLAN COMMISSION MEETING AGENDA

MONDAY, MARCH 11, 2024 AT 4:30 PM

COUNCIL CHAMBERS, SECOND FLOOR, MUNICIPAL BUILDING, 106 JONES STREET,
WATERTOWN, WI 53094

By Phone or GoToMeeting: Members of the media and the public may attend by calling:
1 877 309 2073 Access Code: 835-481-365 or <https://meet.goto.com/835481365>

All public participants' phones will be muted during the meeting except during the public comment period.

1. CALL TO ORDER

2. APPROVAL OF MINUTES

- A. Review and take action: Plan Commission minutes dated February 26, 2024

3. BUSINESS

- A. Review and take action: W7880 County Road Q – Extraterritorial Certified Survey Map (CSM)
- B. Review and take action: 916 Labaree Street – Architectural and location review of Riverside Park restrooms
- C. Review and take action: Plan Commission confirmation of zoning code interpretation – Density Standards
- D. Convene into closed session per Wis. Stat. Sec. 19.85(1)(e) to deliberate or negotiate the purchasing of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a closed session. (Town of Emmet Boundary Agreement)
- E. Reconvene to open session

4. ADJOURNMENT

Persons requiring other reasonable accommodations for any of the above meetings, may contact the office of the City Clerk at mdunneisen@watertownwi.gov, phone 920-262-4006

A quorum of any City of Watertown Council, Committee, Board, Commission, or other body, may be present at this meeting for observing and gathering of information only

**PLAN COMMISSION
MINUTES
February 26, 2024**

The Plan Commission met on the above date in the Council Chambers.

The following members were present: Mayor McFarland, Alderman Blanke, Beyer, Konz, Krueger, Lampe, Talaga (virtual), Zirbes

Also in attendance: Mason Becker, Brad Hayes, Margaret Hayes, Candy Grams

1. Call to order

2. Approval of Minutes

A. Site Plan Review minutes February 12, 2024

B. Plan Commission minutes February 12, 2024

Motion to approve Site Plan minutes and Plan Commission minutes was made by Lampe and seconded by Konz, passed on unanimous voice vote.

3. Business

A. Conduct public hearing: 1722 S. Church Street – Conditional Use Permit (CUP) request for an addition under Indoor Commercial Entertainment Section 550-33B(2)(g)

No comments from the public.

B. Review and take action: 1722 S. Church Street – Conditional Use Permit (CUP) request for an addition under Indoor Commercial Entertainment Section 550-33B(2)(g)

Brian Zirbes presented the request to bring the existing Culver's into compliance with the zoning code and for the construction of an addition to the building.

Motion was made to approve with the condition that the a final landscape plan that meets the zoning requirements is submitted to the city was made by Beyer and seconded by Lampe, passed on a unanimous voice vote.

C. Conduct public hearing: 717 W. Main Street – Conditional Use Permit (CUP) request for a Group Development under Section 550-68A(1)

No comments from the public.

D. Review and take action: 717 W. Main Street – Conditional Use Permit (CUP) request for a Group Development under Section 550-68A(1)

Brian Zirbes presented the request for a CUP for 717 W. Main St. Three standards need to be waived for this CUP:

Parking lot design shall employ interior landscaped islands with a minimum of 400 square feet at all parking islands, and in addition shall provide a minimum of one landscaped island of a minimum of 400 square feet in each parking aisle for every 20 cars in that aisle. Aisle-end islands shall count toward meeting this requirement. Landscaped medians shall be used to break large parking areas into distinct pods, with a maximum of 100 spaces in any one pod.

On-site landscaping shall be provided per the landscaping requirements of this chapter, except that building foundation landscaping and paved area landscaping shall be provided at 1.5 times the required landscape points for development in the zoning district.

A conceptual plan for exterior signage shall be provided at time of detailed site plan or GDP that provides for coordinated and complementary exterior sign location, configurations and colors throughout the planned development. All freestanding signage within the development shall complement the on-building signage. Freestanding sign materials and design shall complement the building exterior and may not exceed the maximum height requirement of this chapter and the Building Code.

The developer would also need to obtain approval for a condominium plat for the development. Brad Hayes spoke to the commission about the plan to redevelop this site.

Motion was made by Lampe and seconded by Krueger to approve the request for a CUP with the waivers stated above and the pending approval of the condominium plat by the Plan Commission, passed on a unanimous voice vote.

E. Initial review and set public hearing date for Zoning Text Amendments: Amend Chapter 550 Zoning

Brian Zirbes presented 5 proposed amendments to the zoning code. A summary of each is as follows:

Amendment #1: Current zoning code requires a minimum of 50 feet for both lot width and street frontage when developing Twin Homes. This text amendment reduces the minimum lot width and street frontage for Twin Homes to 42.5 ft. This text amendment also changes the Maximum Gross Density (MGD) to 8 dwelling units per acre for Twin Homes. This change will allow an existing duplex on an 85 ft wide lot (minimum lot width is 85 ft) to be divided into Twin Homes on separate lots and for new Twin Home developments to be developed with these standards. This change applies only to Twin Home development.

Amendment #2: Current zoning code does not allow for 'Outdoor Commercial Entertainment Incidental to Indoor Commercial Entertainment' as an accessory use in the General Business (GB) Zoning District or the Planned Business (PB) Zoning District. 'Outdoor Commercial Entertainment Incidental to Indoor Commercial Entertainment' includes uses such as outdoor dining spaces. This text amendment allows 'Outdoor Commercial Entertainment Incidental to Indoor Commercial Entertainment' in both the General Business (GB) Zoning District and the Planned Business (PB) Zoning District. This change would only allow 'Outdoor Commercial Entertainment' as an accessory use in locations where 'Indoor Commercial Entertainment' is a principle use.

Amendment #3: Current zoning code does not define a 'Street Side Yard'. A 'Street Side Yard' applies to corner lots with two sides having frontage on a street. On a corner lot a 'Street Side Yard' is the yard with street frontage not designated as the front yard. This designation has importance for maintaining proper vision clearance at intersections. Current zoning code language is often confusing for property owners regarding the storage of items such as firewood in these areas. This text amendment adds a definition for 'Street Side Yard' and adds a reference to 'Street Side Yard' within the firewood storage standards to clarify that firewood storage is not permitted in these areas.

Amendment #4: Current zoning code allows ‘Commercial Apartments’ above the ground floor of a commercial building but not below the ground floor. This text change would allow the potential to establish ‘Commercial Apartments’ in lower levels (basement) of commercial buildings where appropriate.

Amendment #5: Current zoning code sets requirements for exterior storage in nonresidential districts. The existing language in this section is inconsistent with permitted uses that allow for outdoor storage in the Industrial Zoning Districts. This text amendment corrects this inconsistency and rewords the language of this section to add clarity.

After lengthy discussion the Commission chose to bring back Amendment 5 at a later date with more information on current city code for dealing with construction sites and abandoned buildings.

Motion was made by Lampe and seconded by Krueger to approve amendments 1-4 for a public hearing on March 19th, passed on a unanimous voice vote.

All materials discussed at this meeting can be found at:

<https://cms4files.revize.com/watertownwi/February%2026,%202024%20Plan%20Commission%20Meeting%20Packet.pdf>

4. Adjournment

Motion to adjourn was made by Blanke and seconded by Lampe and passed on a unanimous voice vote. (5:10pm)

Respectfully Submitted,

Alderman Brad Blanke

Main Office
920-262-4060

Brian Zirbes
920-262-4041

Mark Hady
920-342-0986

Nikki Zimmerman
920-262-4045

Dell Zwieg
920-262-4042

Doug Zwieg
920-262-4062

Dennis Quest
920-262-4061

TO: Plan Commission
DATE: March 11th, 2024
SUBJECT: W7880 / W7894 County Road Q - Extraterritorial Certified Survey Map (CSM)

A request by Stephanie Bartz to create a two lot Certified Survey Map (CSM) within the City of Watertown 3-mile extraterritorial plat review jurisdiction. Parcel PIN(s): 040-0914-1334-000 & 040-0914-1334-006

SITE DETAILS:

Parent Parcel Acres: 1.08 & 3.26
Proposed Lot Size(s): 3.03 & 1.31 acres
Jurisdiction: Town of Shields

BACKGROUND & APPLICATION DESCRIPTION:

The applicant is proposing to create a two lot Certified Survey Map to adjust the property lines between two existing lots.

STAFF EVALUATION:

The preliminary CSM lots are not located within the Airport Approach Protection Zone. County Road Q in this location is not identified in the 2019 City of Watertown Comprehensive Plan as having an expanded right-of-way.

PLAN COMMISSION OPTIONS:

The following possible options for the Plan Commission:

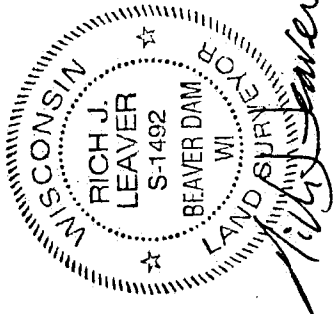
1. Deny the preliminary extraterritorial CSM.
2. Approve the preliminary extraterritorial CSM without conditions.
3. Approve the preliminary CSM with other conditions as identified by the Plan Commission.

ATTACHMENTS:

- Application materials.

CERTIFIED SURVEY MAP

For the Richwood Real Estate LLC and the Silver Oaks LLC
Lot 1 of CSM No. 1500, Volume 10/166 and Unplatted Land
Located in the SE1/4-SW1/4 of Section 13, T9N-R14E
Town of Shields, Dodge County, Wisconsin
Sale of Land to Adjacent Landowner



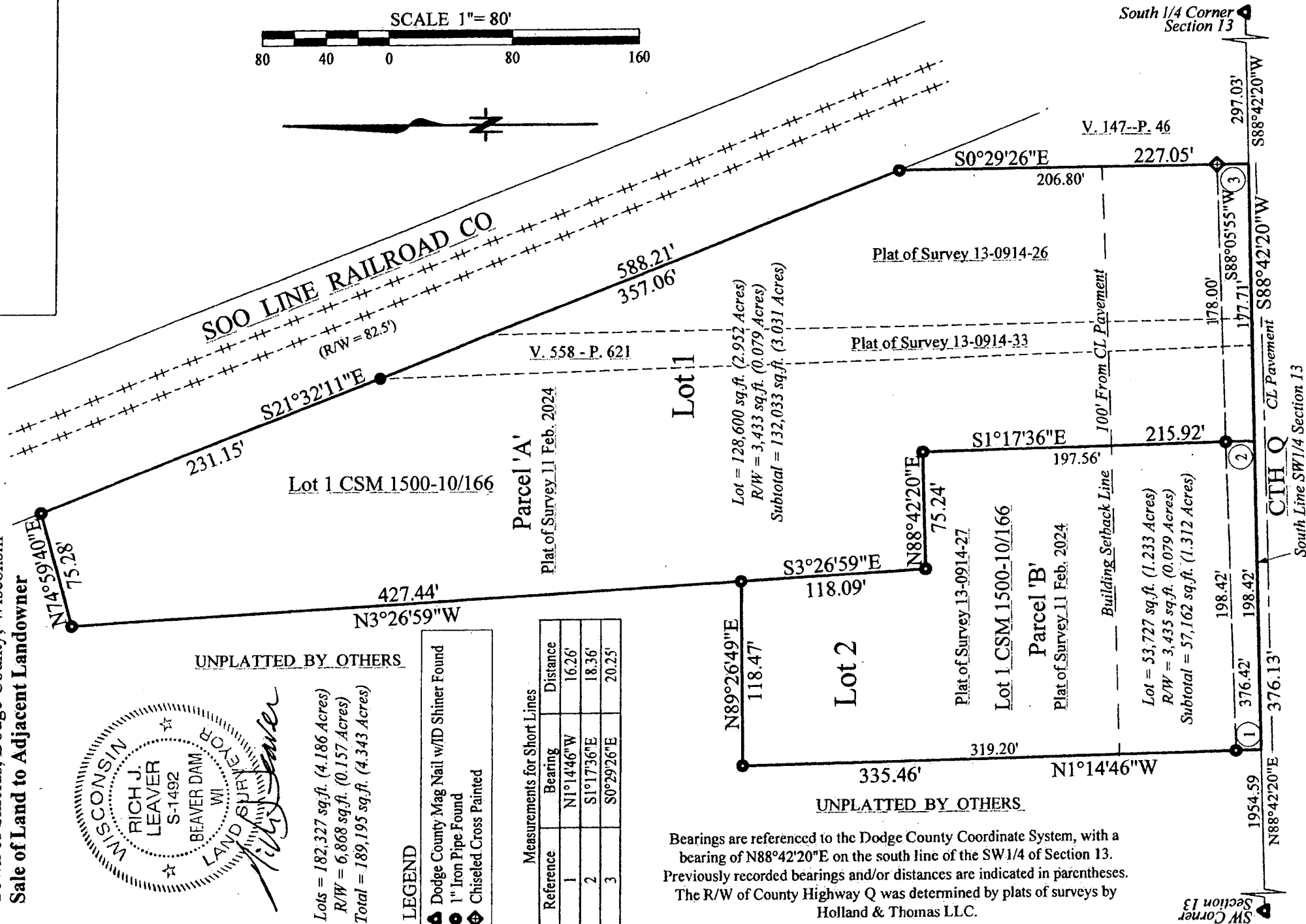
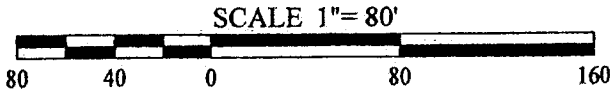
Lots = 182,327 sq.ft. (4.186 Acres)
R/W = 6,868 sq.ft. (0.157 Acres)
Total = 189,195 sq.ft. (4.343 Acres)

LEGEND

- Dodge County Mag Nail w/ID Shiner Found
- 1" Iron Pipe Found
- Chiseled Cross Painted

Measurements for Short Lines

Reference	Bearing	Distance
1	N1°14'46"W	16.26'
2	S1°17'36"E	18.36'
3	S0°29'26"E	20.25'



Bearings are referenced to the Dodge County Coordinate System, with a bearing of N88°42'20"E on the south line of the SW1/4 of Section 13. Previously recorded bearings and/or distances are indicated in parentheses. The R/W of County Highway Q was determined by plats of surveys by Holland & Thomas LLC.

CERTIFIED SURVEY MAP

For the Richwood Real Estate LLC and the Silver Oaks LLC
Lot 1 of CSM No. 1500, Volume 10/166 and Unplatted Land
Located in the SE1/4-SW1/4 of Section 13, T9N-R14E
Town of Shields, Dodge County, Wisconsin
Sale of Land to Adjacent Landowner



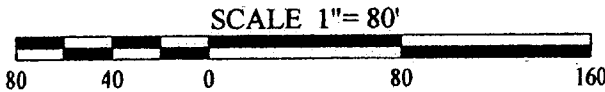
UNPLATTED BY OTHERS

LEGEND

- ▲ Dodge County Mag Nail w/ID Shiner Found
- 1" Iron Pipe Found
- ◆ Chiseled Cross Painted
- () = recorded bearings and/or distances

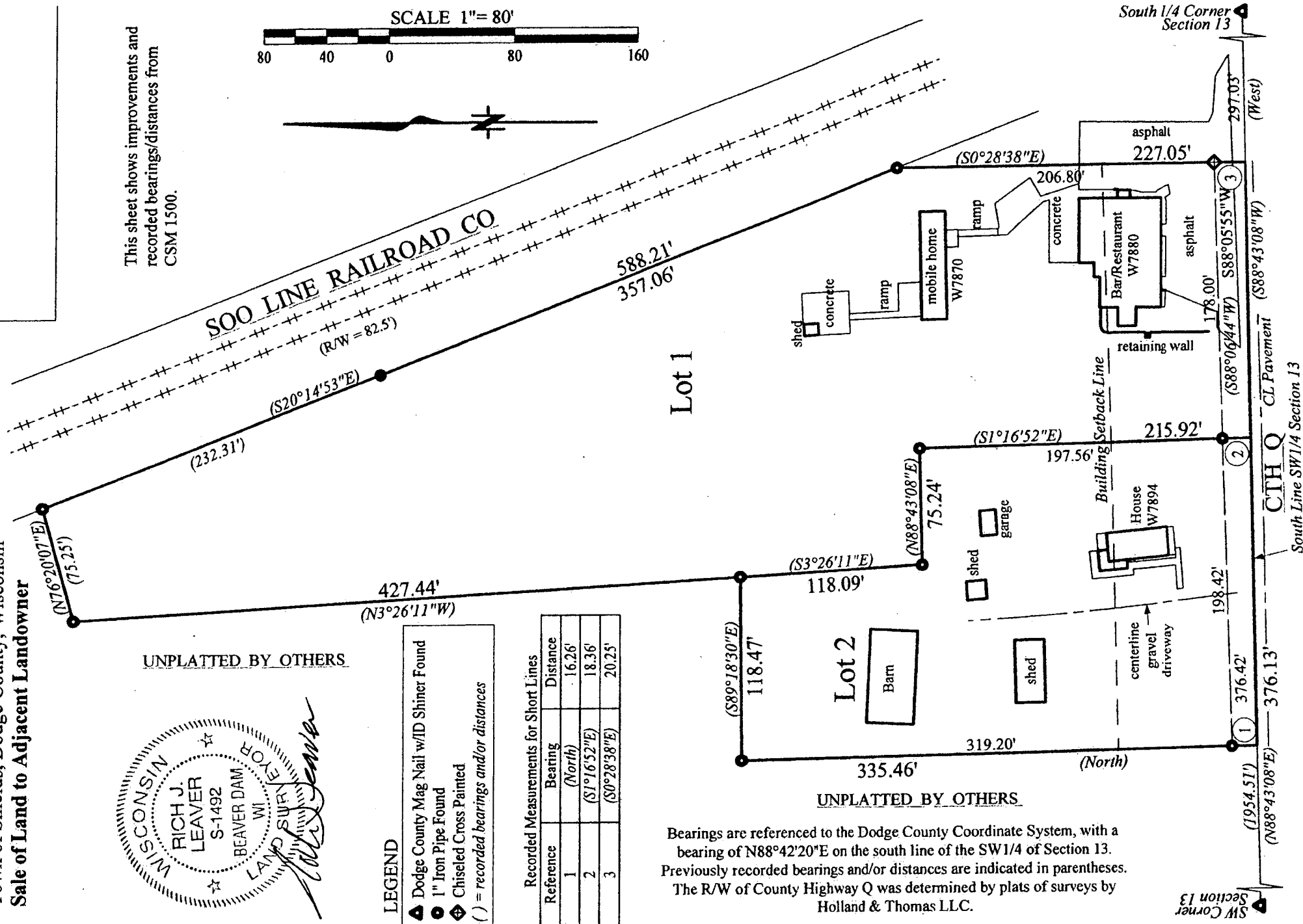
Recorded Measurements for Short Lines

Reference	Bearing	Distance
1	(North)	16.26'
2	(S1°16'52"E)	18.36'
3	(S0°28'38"E)	20.25'



This sheet shows improvements and recorded bearings/distances from CSM 1500.

Section 3, Item A.



Bearings are referenced to the Dodge County Coordinate System, with a bearing of N88°42'20"E on the south line of the SW1/4 of Section 13. Previously recorded bearings and/or distances are indicated in parentheses. The R/W of County Highway Q was determined by plats of surveys by Holland & Thomas LLC.

CERTIFIED SURVEY MAP

For the Richwood Real Estate LLC and the Silver Oaks LLC
Lot 1 of CSM No. 1500, Volume 10/166 and Unplatted Land
Located in the SE1/4-SW1/4 of Section 13, T9N-R14E
Town of Shields, Dodge County, Wisconsin
Sale of Land to Adjacent Landowner

SURVEYOR'S CERTIFICATE

I, Rich J. Leaver, Wisconsin Professional Land Surveyor, hereby certify that I have surveyed, mapped and divided a parcel of land by the direction of Stephanie Bratz, who is representing the LLC's. This parcel is located and described as indicated above, and more particularly described as the following:

Commencing at the South 1/4 Corner of Section 13, T9N-R14E,
thence S88°42'20"W, 297.03 feet along the south line of the SW1/4 of Section 13;
thence continuing S88°42'20"W, 376.13 feet along said south line of the SW1/4 to the SW corner of Lot 1 of
Certified Survey Map (CSM) No. 1500, recorded in Volume 10, page 166 of the Dodge County Register of Deeds;
thence the following courses along lines of said Lot 1 of CSM No. 1500:
N1°14'46"W, 335.46 feet; N89°26'49"E, 118.47 feet; N3°26'59"W, 427.44 feet; N74°59'40"E, 75.28 feet to the
southwesterly right-of-way line of the Soo Line Railroad Co.;
thence S21°32'11"E, 588.21 feet along this southwesterly right-of-way line;
thence S0°29'26"E, 227.05 feet along the west line of land as described in Volume 147, page 46 of said register to
the point of beginning. Bearings are referenced to the Dodge County Coordinate System.

The above-described parcel contains 189,195 square feet (4.343 acres) of land, of which 6,868 square feet (0.157 acres) is subject to the north right-of-way of County Road Q. This parcel is also subject to all other easements, including utility easements, restrictions, and setbacks, either recorded or unrecorded, if any.

I further certify that the information contained herein is a correct representation of the boundaries of the land surveyed and mapped, and that I have fully complied with the provisions of Chapter 236.34 of the revised Wisconsin State Statutes and the Dodge County Land Use Code in surveying and mapping the same, to the best of my knowledge and belief.



Rich J. Leaver, WI LS-1492
Leaver Land Surveying LLC
W8871 Gossfeld Ln.
Beaver Dam, WI 53916
920-887-2401



CLIENT
Stephanie Bratz
Richwood Real Estate LLC
W7894 County Rd. Q
Watertown, WI 53098

CITY OF WATERTOWN EXTRATERRITORIAL Jurisdiction Approval

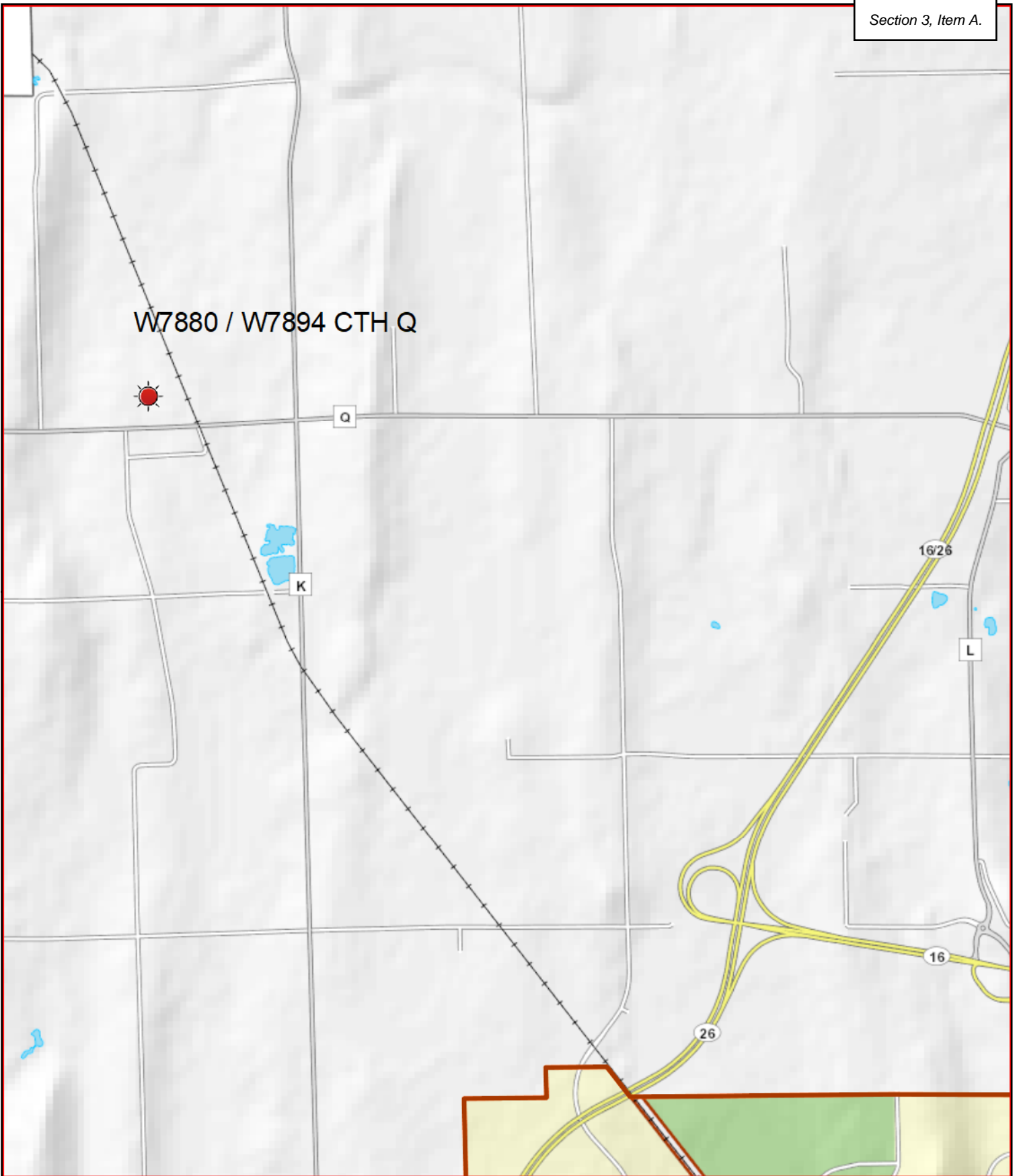
Approved by the City of Watertown Plan Commission:

Dated this _____ day of _____, 2024

Emily McFarland, Chairperson/Mayor

Megan Dunneisen, City Clerk

Dated _____



Points



Override 1



City Limits



City of Watertown Geographic Information System

Scale: 1 inch = 2,000 feet
SCALE BAR = 1"

Printed on: March 4, 2014
Author:

DISCLAIMER: This map is not a substitute for an actual field survey or on-site investigation. The accuracy of this map is limited to the quality of the records from which it was assembled. Other inherent inaccuracies occur during the compilation process. City of Watertown makes no warranty whatsoever concerning this information.

MEMO

TO: Mayor McFarland and Commissioners
FROM: Andrew Beyer, P.E.
DATE: March 6, 2024
RE: Plan Commission Meeting of March 11, 2024

Review and take action: 916 Labaree Street – Architectural and location review of Riverside Park restrooms

Background:

The City of Watertown is looking to develop a new restroom facility at Riverside Park. The restroom project was awarded in late February to the lowest responsible and responsive bidder, Ray Stadler Construction Co., Inc. with construction anticipated to begin in April. The proposed structure has a footprint of roughly 1,600 square feet. The new restroom facility will also go before the Site Plan Review Committee. The plan set is attached for review.

Per Wis. Stat. § 62.23(5):

*(5) Matters referred to city plan commission. The council, or other public body or officer of the city having final authority thereon, shall refer to the city plan commission, for its consideration and report before final action is taken by the council, public body or officer, the following matters: **The location and architectural design of any public building**; the location of any statue or other memorial; the location, acceptance, extension, alteration, vacation, abandonment, change of use, sale, acquisition of land for or lease of land for any street, alley or other public way, park, playground, airport, area for parking vehicles, or other memorial or public grounds; the location, extension, abandonment or authorization for any public utility whether publicly or privately owned; all plats of lands in the city or within the territory over which the city is given platting jurisdiction by ch. 236; the location, character and extent or acquisition, leasing or sale of lands for public or semipublic housing, slum clearance, relief of congestion, or vacation camps for children; and the amendment or repeal of any ordinance adopted pursuant to this section. Unless such report is made within 30 days, or such longer period as may be stipulated by the common council, the council or other public body or officer, may take final action without it.*

Options:

These are the following options available, but not limited to, for the Plan Commission:

1. Make an advisory recommendation to the Common Council
 - a. Negative advisory recommendation on the location and/or architectural design.
 - b. Positive advisory recommendation on the location and/or architectural design.
 - c. Positive advisory recommendation on the location and/or architectural design with additional recommendation.

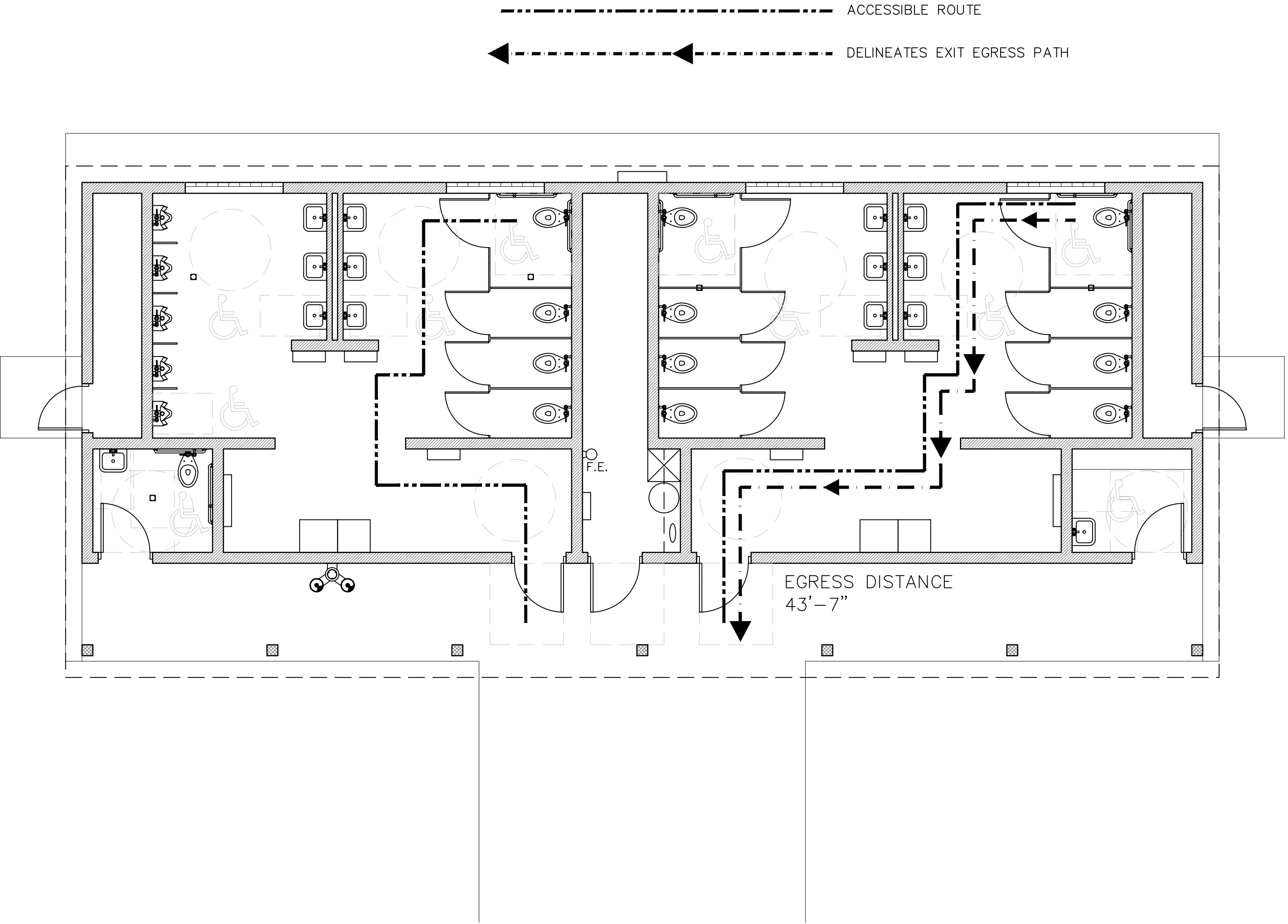
VICINITY MAP
SCALE: N.T.S.

812 LABAREE ST. | WATERTOWN, WI 53098

OCCUPANT LOAD PER TABLE 1004.1.2				
TOTAL OCCUPANT LOAD = 183 OCCUPANTS				
OCCUPANCY	SF	FLOOR AREA	CALC. OCC.	ASSIGNED OCC.
UTILITY	1,602 SF	500/GROSS	3	45

EGRESS REQUIREMENTS			
EGRESS WIDTH PER 1005.3			
# OF OCCUPANTS	EGRESS WIDTH FACTOR	EGRESS WIDTH REQUIRED	EGRESS WIDTH PROVIDED
45	.2 INCHES PER OCCUPANT	9"	34"
NO. OF EXITS REQUIRED PER SECTION 1006		= 1	
NO. OF EXITS PROVIDED		= 1	
MAXIMUM EXIT TRAVEL DISTANCE PER TABLE 1017.2 = 200' (w/out SPRINKLER)			

FIRE-RESISTANCE RATING SUMMARY	
REFER TO IBC CHAPTER 6	
CONSTRUCTION TYPE V-B	
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS	0
FLOOR CONSTRUCTION	
ROOF CONSTRUCTION	0



FIRST FLOOR CODE PLAN

SCALE: N.T.S.

1 N

2024-01-23 Bid & Permit Set

Drawn by	Checked by
JAJ	DMR

[illegible]

Sheet No. _____

T1.1

An architectural rendering of a modern, single-story building with a white facade and large glass windows. The building is situated on a grassy area with trees in the background. The rendering is presented in a black and white format with a green accent bar.



Architect

259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park Restrooms

New Construction

300 Labaree St
Watertown, WI

Sheet Title

DEMOLITION PLAN

Drawn by	Checked by
YT	KCB

[illegible]

Sheet No.

C1.0

CONSTRUCTION SEQUENCING


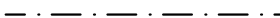




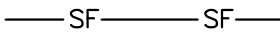






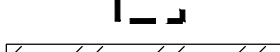
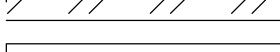
1. INSTALL PERIMETER SILT FENCE AND INLET PROTECTION.
2. STRIP AND STOCKPILE TOPSOIL, INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
3. CONDUCT ROUGH GRADING EFFORTS AND INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AS NEEDED.
4. INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
5. COMPLETE INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
6. FINAL GRADING BY CITY.
7. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED.

CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.

DEMOLITION NOTES

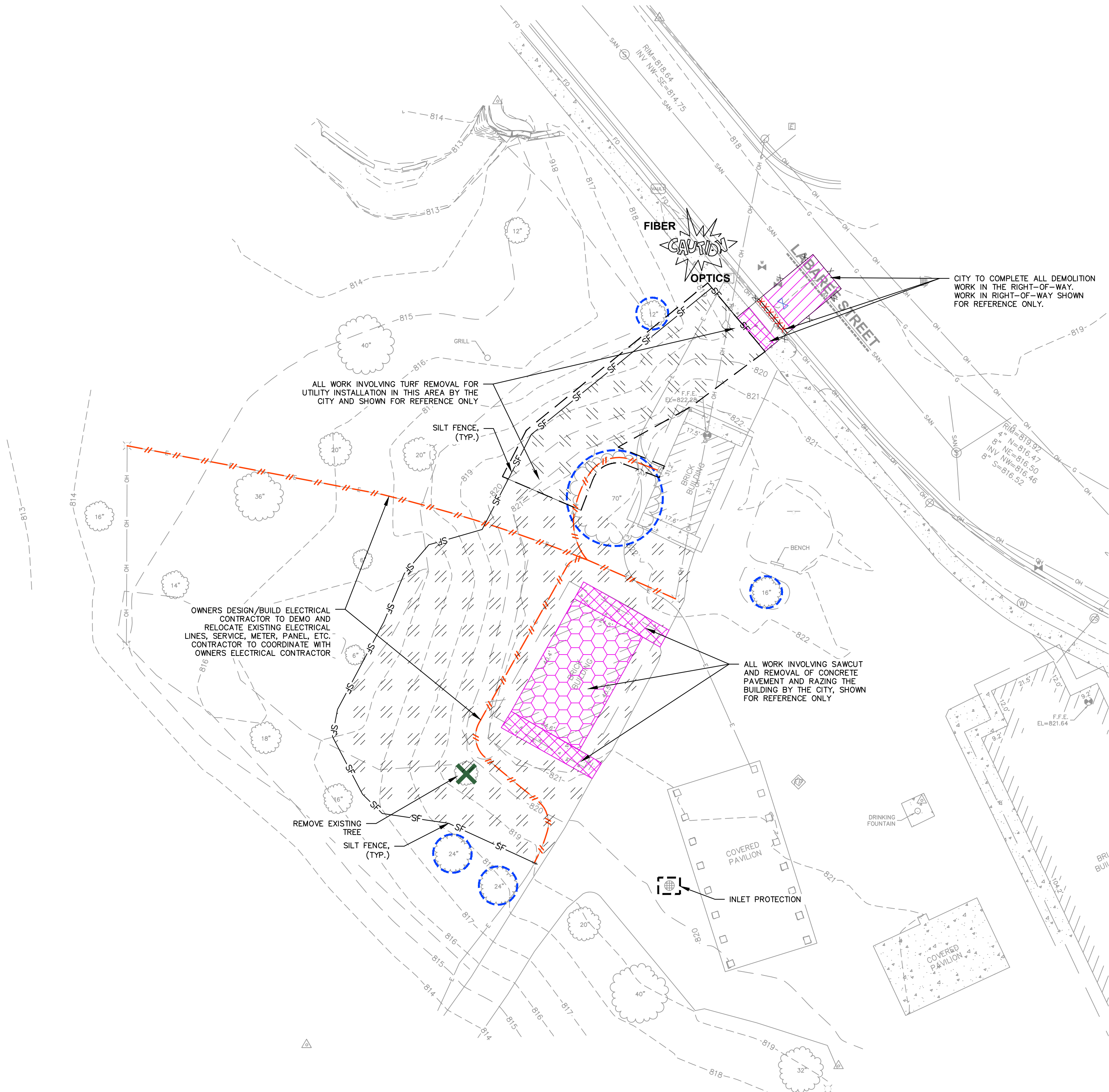
1. THIS PLAN INDICATES ITEMS ON THE PROPERTY INTENDED FOR DEMOLITION BASED ON THE CURRENT SITE DESIGN THAT HAVE BEEN IDENTIFIED BY A REASONABLE OBSERVATION OF THE EXISTING CONDITIONS THROUGH FIELD SURVEY, RECONNAISSANCE, "DIGGER'S HOTLINE" LOCATION, AND GENERAL "STANDARD OF CARE". THERE MAY BE ADDITIONAL ITEMS THAT COULD NOT BE IDENTIFIED BY A REASONABLE ABOVE GROUND OBSERVATION, OF WHICH THE ENGINEER WOULD HAVE NO KNOWLEDGE OR MAY BE A PART OF ANOTHER DESIGN DISCIPLINE. IT IS THE CONTRACTOR'S/BIDDER'S RESPONSIBILITY TO REVIEW THE PLANS, INSPECT THE SITE AND PROVIDE THEIR OWN DUE DILIGENCE TO INCLUDE IN THEIR BID WHAT ADDITIONAL ITEMS, IN THEIR OPINION, MAY BE NECESSARY FOR DEMOLITION. ANY ADDITIONAL ITEMS IDENTIFIED BY THE CONTRACTOR/BIDDER SHALL BE IDENTIFIED IN THE BID AND REPORTED TO THE ENGINEER OF RECORD. JSO TAKES NO RESPONSIBILITY FOR ITEMS ON THE PROPERTY THAT COULD NOT BE LOCATED BY A REASONABLE OBSERVATION OF THE PROPERTY OR OF WHICH THEY WOULD HAVE NO KNOWLEDGE.
2. CONTRACTOR SHALL KEEP ALL STREETS AND PRIVATE DRIVES FREE AND CLEAR OF ALL CONSTRUCTION RELATED DIRT, DUST AND DEBRIS.
3. ALL TREES WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED UNLESS SPECIFICALLY CALLED OUT FOR REMOVAL. ALL TREES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY AND STUMPS SHALL BE GROUND TO PROPOSED SUBGRADE.
4. ALL LIGHT POLES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING BASE AND ALL APPURTENANCES. SALVAGE FOR RELOCATION, COORDINATE RELOCATION AND/OR ABANDONMENT OF ALL ELECTRIC LINES WITH ELECTRICAL ENGINEER AND OWNER PRIOR TO DEMOLITION.
5. ABANDONED/REMOVED ITEMS SHALL BE DISPOSED OF OFF SITE UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO REPLACE ALL SIDEWALK AND CURB AND GUTTER ABUTTING THE PROPERTIES, WHICH IS DAMAGED BY THE CONSTRUCTION, OR ANY SIDEWALK AND CURB AND GUTTER THAT THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
 - 7.1. EXAMINE ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - 7.2. VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCIES. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCIES ARE RESOLVED.
 - 7.3. NOTIFYING ALL UTILITIES PRIOR TO THE REMOVAL OF ANY UNDERGROUND UTILITIES.
 - 7.4. NOTIFYING THE DESIGN ENGINEER AND LOCAL CONTROLLING MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION.
8. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
9. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF THESE IMPROVEMENTS.
10. CONTRACTOR TO COORDINATE PRIVATE UTILITY REMOVAL / ABANDONMENT AND NECESSARY RELOCATION WITH RESPECTIVE UTILITY COMPANY. COORDINATION REQUIRED PRIOR TO CONSTRUCTION.
11. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH THE APPROVED MUNICIPALITY RECYCLING PLAN.
12. ANY CONTAMINATED SOILS SHALL BE REMOVED IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS TO AN APPROVED LANDFILL.
13. ALL EXISTING UTILITIES TO BE FIELD LOCATED AND FLAGGED BY CONTRACTOR.
14. EXISTING FIBER OPTIC LINE TO BE CLEARLY MARKED PRIOR TO ANY EXCAVATION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES OCCUR IN THE LOCATION SHOWN OR PROPOSED IMPROVEMENTS IMPACTING EXISTING FIBER OPTIC LINE LOCATION.
15. ALL PERIMETER EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF DEMOLITION ACTIVITIES. CONTRACTOR SHALL KEEP ALL STREETS AND PAVEMENT FREE AND CLEAR OF ALL CONSTRUCTION RELATED DIRT, DUST AND DEBRIS.

LEGEND

	PROPERTY LINE
	EASEMENT LINE
	RIGHT OF WAY LINE
	EXISTING ASPHALT PAVEMENT AND BASE TO BE REMOVED BY CITY, N.I.C.
	EXISTING CONCRETE PAVEMENT AND BASE TO BE REMOVED BY THE CITY, N.I.C.
	EXISTING BUILDING TO BE REMOVED BY THE CITY, REFER TO BLDG. PLAN, N.I.C.
	SILT FENCE
	PAVEMENT SAWCUT BY CITY, N.I.C.
	EXISTING CURB TO BE REMOVED BY CITY, N.I.C.
	REMOVE TREE
	EXISTING ELECTRICAL TO BE REMOVED AND RELOCATED BY OTHERS, N.I.C.
	PROTECT EXISTING TREES
	INLET PROTECTION
	REMOVE AND DISPOSE OF VEGETATION, STRIP AND STOCKPILE TOPSOIL, THICKNESS MAY VARY
	VEGETATION AND TOPSOIL PREVIOUSLY REMOVED BY CITY FOR UTILITY INSTALLATION, N.I.C.

CIVIL SHEET INDEX

C1.0 - SITE DEMOLITION PLANS
C2.0 - SITE LAYOUT PLAN
C3.0 - GRADING AND EROSION CONTROL PLAN
C4.0 - UTILITY PLAN
C5.0 - DETAILS
C5.1 - NOTES AND DETAILS





- Architect

259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

—Project Info. — 22005

Riverside Park Restrooms

New Construction

600 Labaree St
Watertown, WI

—Sheet Title

SITE LAYOUT PLAN

Drawn by	Checked by
YT	KCB

[illegible]

— Sheet No.

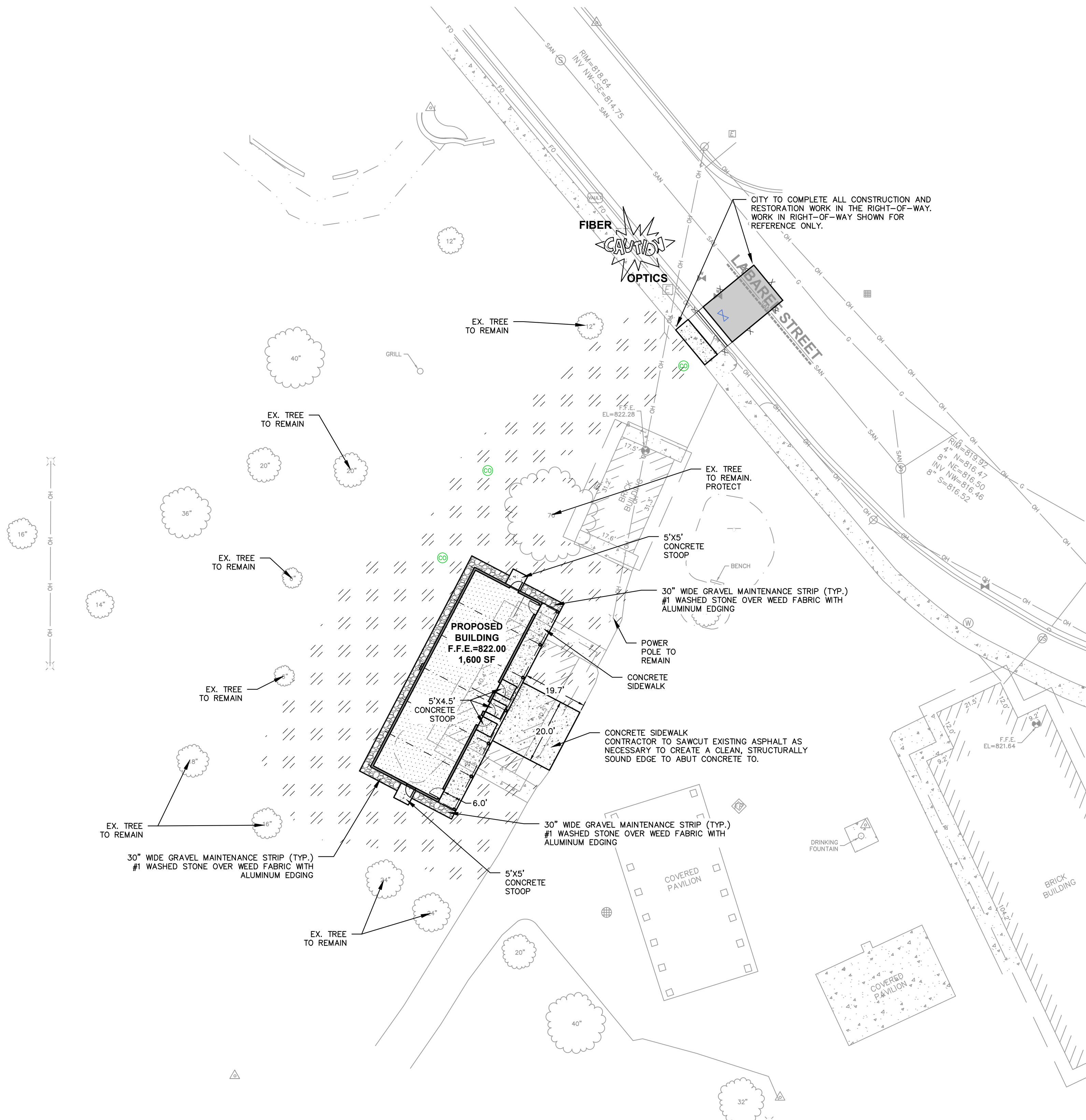
C2.0

GENERAL NOTES

1. WATER AND SANITARY SEWER WERE INSTALLED BY THE CITY AND STUBBED TO THE BACK OF THE BUILDING.
2. ROUGH GRADE IN THE CONTRACT.
FINISH GRADE, SODDING, LANDSCAPING, AND EROSION MATTING NOT IN CONTRACT. CITY TO COMPLETE THE WORK.
3. OLD BUILDING ELECTRICAL IS DISCONNECTED.
4. ELECTRICAL CONTRACTOR TO COORDINATE OUTDOOR PANEL, METER, ETC.
5. BUILDING AND CONCRETE SIDEWALK IN CONTRACT.


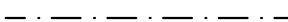



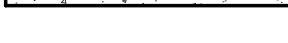
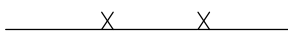




PAVING NOTES

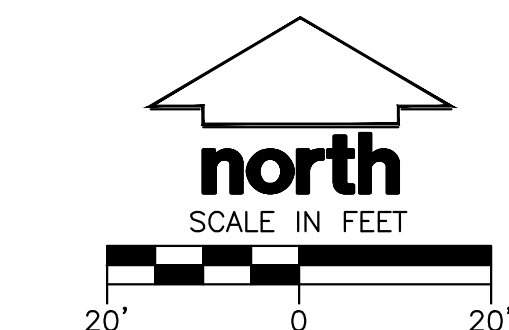
1. GENERAL
- 1.1. ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION, LATEST EDITION, APPLICABLE CITY OF WATERTOWN ORDINANCES.,
- 1.2. SURFACE PREPARATION - NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
2. CONCRETE PAVING SPECIFICATIONS
- 2.1. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
- 2.2. CONTRACTOR SHALL SAWCUT ASPHALT AND REMOVE AS NECESSARY TO CREATE A CLEAN, STRUCTURALLY SOUND EDGE TO ABUT CONCRETE TO.
- 2.3. CONCRETE PAVEMENT SHALL BE REINFORCED WITH NOVOMESH 950 (OR EQUAL) FIBER REINFORCEMENT AT A RATE OF 5 LBS/CUBIC YARD.
- 2.4. CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
- 2.5. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
- 2.6. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
- 2.7. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
- 2.8. ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.



SITE INFORMATION BLOCK	
SITE ADDRESS	812 LABAREE ST (ZONING SR-4)
PROPERTY ACREAGE	11.38 ACRES
DISTURBANCE AREA	0.23 ACRES
NUMBER OF BUILDING STORIES	
TOTAL BUILDING SQUARE FOOTAGE	1,600 SF

LEGEND

	PROPERTY LINE
	EASEMENT LINE
	RIGHT OF WAY LINE
	STANDARD CURB AND GUTTER BY CITY
	LIGHT DUTY ASPHALT PAVEMENT BY CITY
	CONCRETE SIDEWALK 5" CONCRETE 6" CRUSHED AGGREGATE BASE COURSE
	30" WIDE GRAVEL MAINTENANCE STRIP
	SAWCUT PAVEMENT BY CITY
	SANITARY CLEANOUT
	WATER VALVE
	CONTRACTOR TO ROUGH GRADE AREA. CITY TO COMPLETE FINISH GRADE, SEEDING, AND EROSION MATTING.



DIGGERS HOTLINE
Toll Free (800) 242-8511



MILWAUKEE REGIONAL OFFICE
W238 N1610 BUSSE ROAD, SUITE 100
WAUKESHA, WISCONSIN 53188
P. 262.513.0666
JSD #21-11127

2024-01-23 Bid & Permit Set



Architect

259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park Restrooms

New Construction

600 Labaree St
Watertown, WI

Sheet Title

GRADING AND EROSION CONTROL PLAN

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YT	KCB

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Sheet No.

C3.0

GENERAL NOTES

1. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND MUNICIPAL REQUIREMENTS.
2. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
3. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
4. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

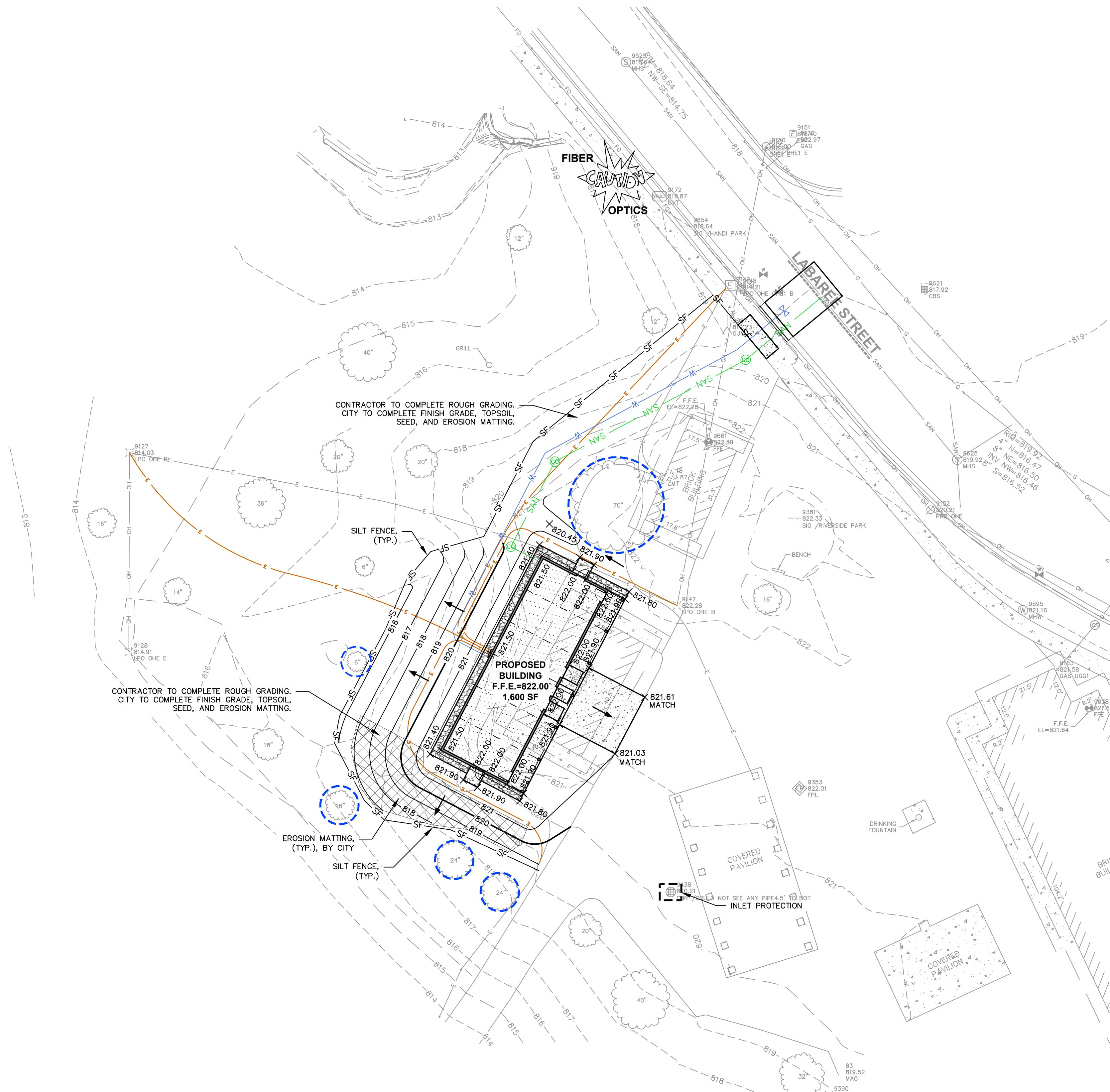
GRADING AND SEEDING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES, WHILE USE OF PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
 3. PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.
 4. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
 5. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
- THE FOLLOWING NOTES APPLY TO RESTORATION WORK COMPLETED BY THE CITY, N.I.C.
6. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
 7. CITY SHALL WATER ALL NEWLY SODDED/SEEDDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
 8. CITY TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
 9. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
 10. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR SHALL BE TEMPORARILY SEEDDED FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDMR TECHNICAL STANDARD 1059, AND CITY OF WATERTOWN ORDINANCE.

LEGEND

	PROPERTY LINE
	EASEMENT LINE
	RIGHT OF WAY LINE
	STANDARD CURB AND GUTTER
	SILT FENCE
	PROPOSED 1 FOOT CONTOUR
	PROPOSED 5 FOOT CONTOUR
	EXISTING 1 FOOT CONTOUR
	EXISTING 5 FOOT CONTOUR
	PROTECT EXISTING TREES
	EROSION MATTING, BY CITY
	SANITARY SERVICE
	SANITARY CLEANOUT
	WATER SERVICE
	WATER VALVE
	INLET PROTECTION – SILT LOGS OR STAKED STRAW BALES
	DRAINAGE ARROW

SEE UTILITY SHEET FOR ADDITIONAL INFORMATION



2024-01-23 Bid & Permit Set

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Riverside Park Restrooms

600 Labaree St
Watertown, WI

UTILITY PLAN

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C4.0

ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.

2. PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR: EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEER'S DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.

- OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
- VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
- NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
- NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION
- COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.

3. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN - AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.

4. SPECIFICATIONS SHALL COMPLY WITH THE CITY OF WATERTOWN SPECIAL PROVISIONS.

5. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.

6. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.

7. CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.

8. CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.

9. THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.

10. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.

12. WATER MAIN SPECIFICATIONS -

PIPE - POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARD C-900 CLASS 150 (DN-18, WITH 12.5 IN. I.D. AND 12 IN. WALL) ELASTOMERIC BELL AND SPIGOT JOINTS. NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH BLUE INSULATION TRACER WIRE AND CONFORM WITH SPS 382.30(11)(h).

VALVES AND VALVE BOXES - GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-500 AND CHAPTER 8.2.7.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.

BEDDING AND COVER MATERIAL - PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED, ROTO CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.4.3.2 OF THE "STANDARD SPECIFICATIONS".

BACKFILL: PRIVATE SERVICE - BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.4.3.5 OF THE "STANDARD SPECIFICATIONS".

BACKFILL AND BEDDING: PUBLIC R.O.W - ALL EXCAVATION IN THE PUBLIC STREET RIGHT-OF-WAY HALL BE BACKFILLED WITH SLURRY IN ACCORDANCE WITH LOCAL REGULATIONS.

13. SANITARY SEWER SPECIFICATIONS -

PIPE - SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR-35, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D-3212.

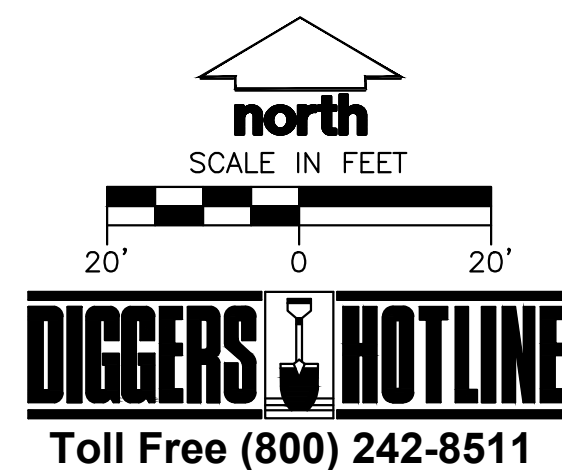
BEDDING AND COVER MATERIAL - BEDDING AND COVER MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTION 2.6.0 OF THE "STANDARD SPECIFICATIONS" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.4.3.2 (A). BEDDING AND COVER MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO INSURE ADEQUATE COMPACTING OF THESE MATERIALS, WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE TOP SURFACE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."

BACKFILL: PRIVATE SERVICE - BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.4.3.5 OF THE "STANDARD SPECIFICATIONS".

BACKFILL AND BEDDING: PUBLIC R.O.W - ALL EXCAVATION IN THE PUBLIC STREET RIGHT-OF-WAY HALL BE BACKFILLED WITH SLURRY IN ACCORDANCE WITH LOCAL REGULATIONS.

14. WATER MAIN AND SANITARY SEWER SHALL BE INSULATED WHEREVER THE DEPTH OF COVER IS LESS THAN 6 FEET. INSULATION AND INSTALLATION OF INSULATION SHALL BE CONFORMING WITH CHAPTER 7.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).

	PROPERTY LINE
	EASEMENT LINE
	RIGHT OF WAY LINE
	STANDARD CURB AND GUTTER
	SILT FENCE
	SANITARY SERVICE
	SANITARY CLEANOUT
	WATER SERVICE
	WATER VALVE



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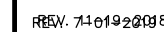
Riverside Park Restrooms

600 Labaree St
Watertown, WI

DETAILS

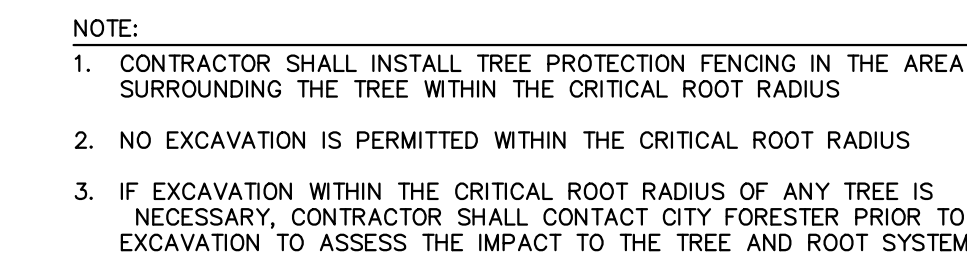
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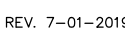


1. EROSION MAT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1052 "NON-CHANNEL EROSION MAT".
2. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
5. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.

REV. 11-19-2018



CY. 01-04-2019



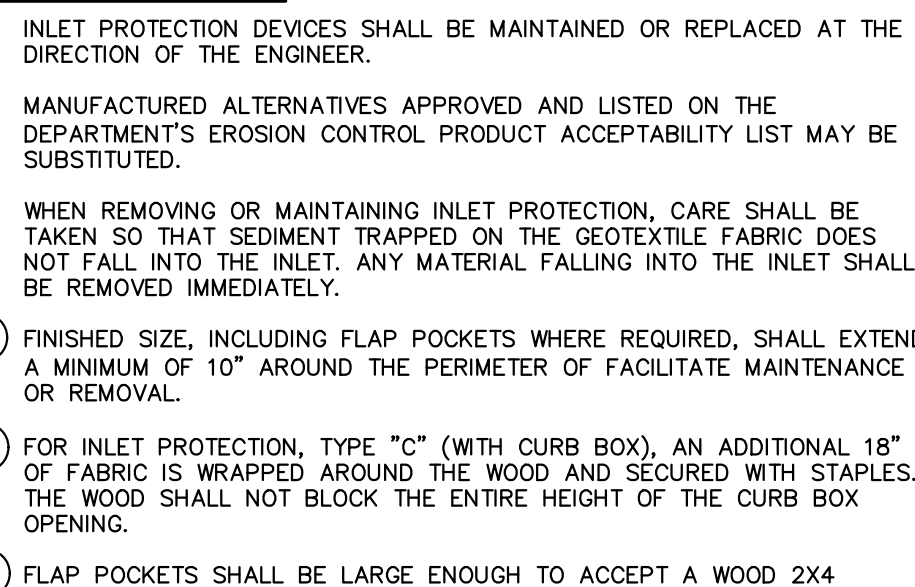
NTS



1. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8-INCHES OF FABRIC IN A 4-INCH WIDE AND 6-INCH DEEP TRENCH OR 6-INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
2. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125-INCHES x 1.125-INCHES OF DRIED OAK OR HICKORY.
4. SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE.
5. SILT FENCE CONSTRUCTION AND GEOTEXTILE FABRIC SHALL CONFORM TO WDNR TECHNICAL STANDARD 1056.
6. POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8-FEET FOR WOVEN & 3-FEET FOR NON-WOVEN).



NTS



TYPE "B" & "C"

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.

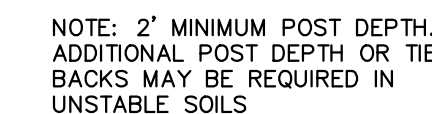
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE USING A SEWN FLAP, HAND HOLDS OR OTHER METHODS TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE "D"

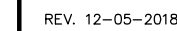
DO NOT INSTALL INLET PROTECTION TYPE "D" IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.

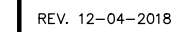
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3 INCHES. WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCHES CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4 INCHES FROM THE BOTTOM OF THE BAG.



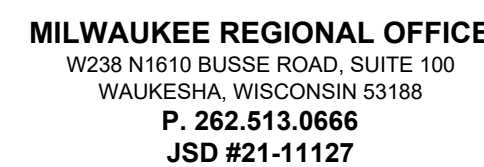
N T S



NTS



NTS



THRIVE
ARCHITECTS

Architect
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Restrooms

New Construction
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Sheet Title

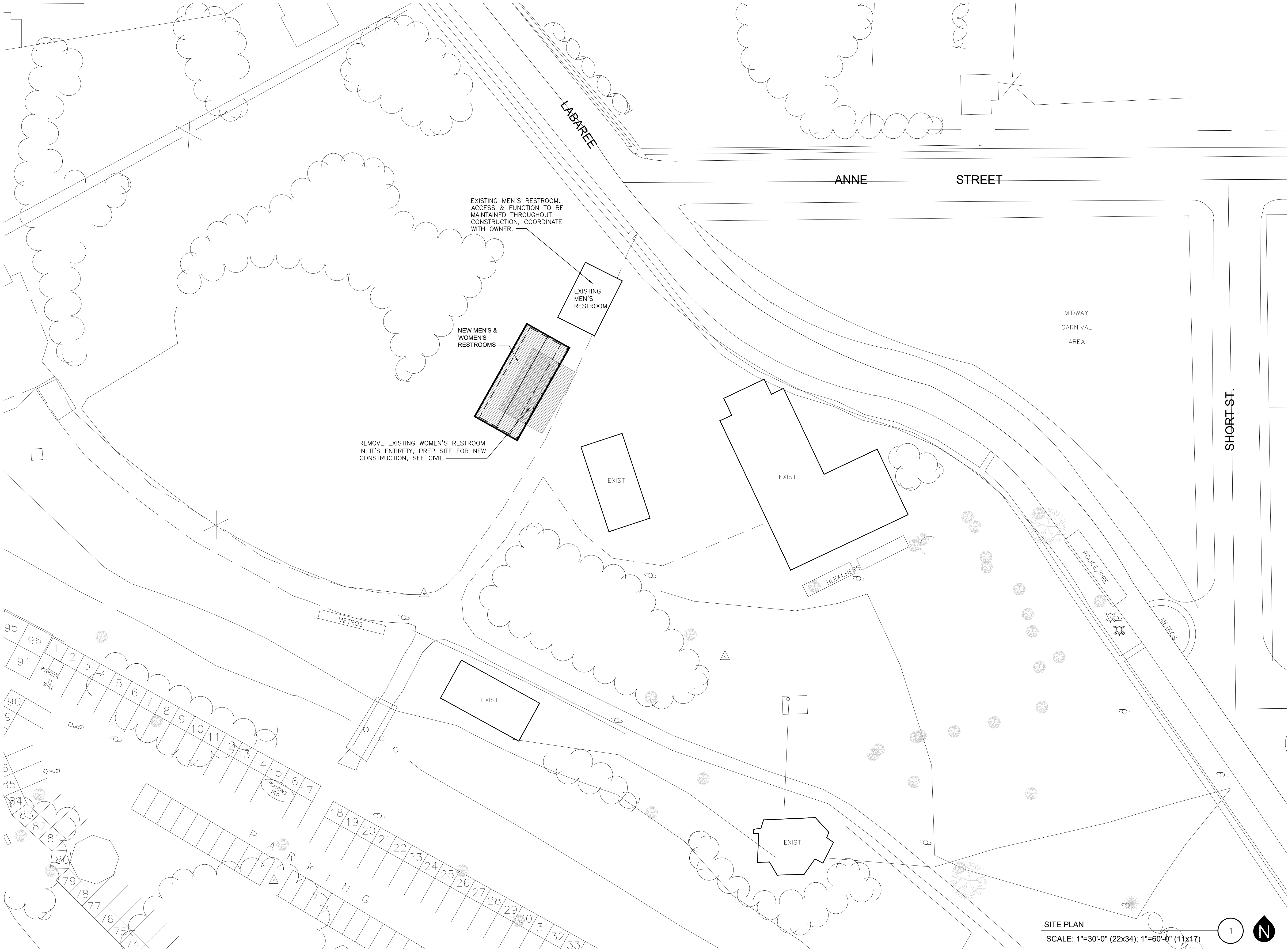
SITE PLAN

Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	01.23.24	Bid & Permit Set

Sheet No.

SP1.0



SITE PLAN
SCALE: 1"=30'-0" (22x34); 1"=60'-0" (11x17)

1
N

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Riverside Park
Restrooms

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Sheet Title

FLOOR PLAN

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JAJ	DMR

Revisions

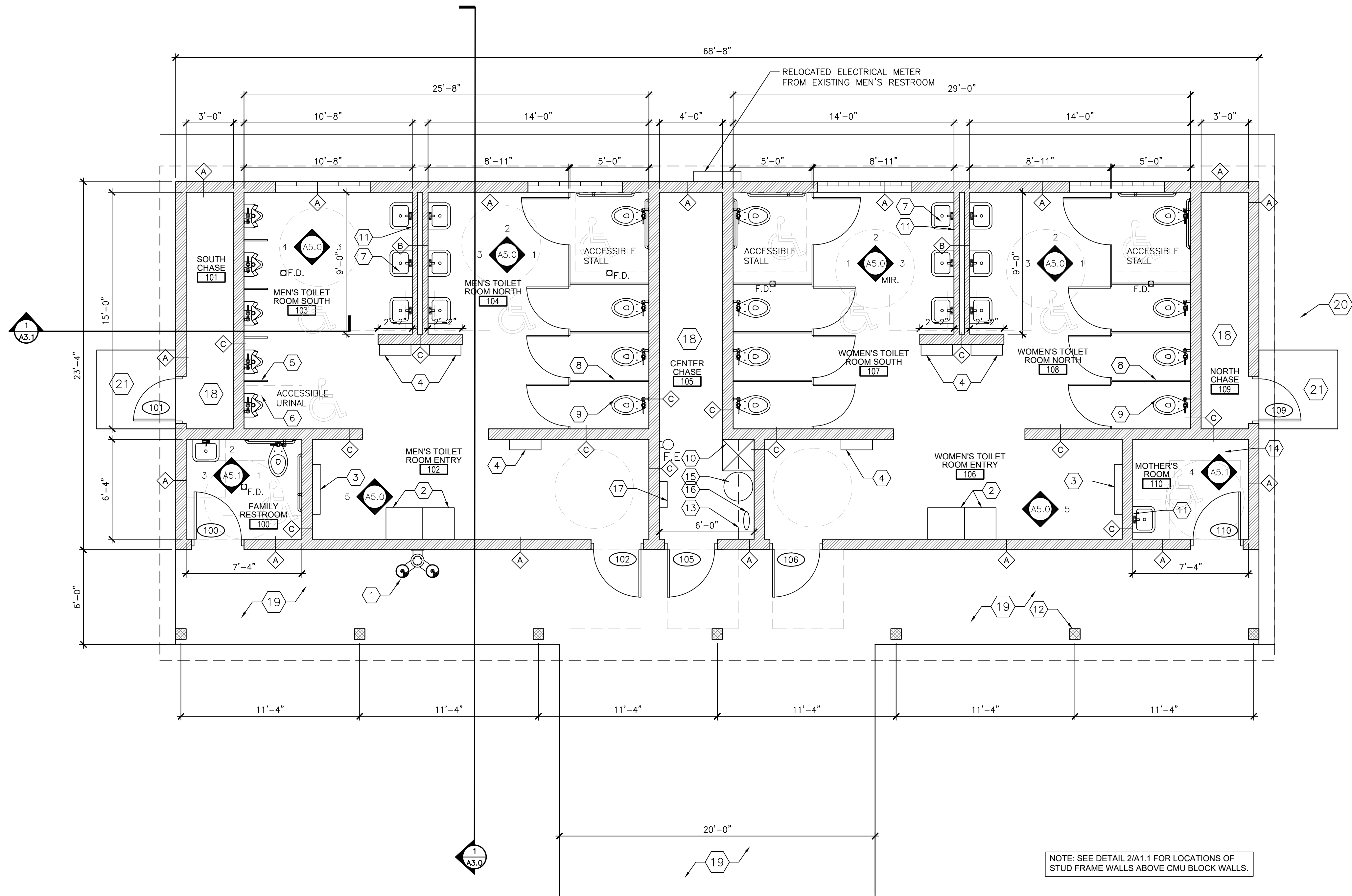
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	01.23.24	Bid & Permit Set

Sheet No.

A1.0

PLAN/EQUIP. KEY

- | | | |
|------------------------------------|---------------------------|-----------------------------|
| 1 DRINKING FOUNTAIN, BOTTLE FILLER | 9 TOILET PARTITION | 17 ELECTRICAL PANEL |
| 2 TRASH RECEPTACLE | 10 JANITOR'S SINK | 18 PLUMBING CHASE |
| 3 CHANGING STATION | 11 MIRROR | 19 CONCRETE SIDEWALK |
| 4 HAND DRYER | 12 COLUMN, SEE STRUCTURAL | 20 GRAVEL MAINTENANCE STRIP |
| 5 URINAL | 13 SHELVING, BY OWNER | 21 5X5 STOOP |
| 6 URINAL PARTITION | 14 BENCH SEAT | |
| 7 LAVATORY | 15 WATER HEATER | |
| 8 TOILET | 16 WATER METER | |

NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF
STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

FLOOR PLAN

SCALE: 1/4"=1'-0" (22x34); 1/8"=1'-0" (11x17)

1



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Sheet Title

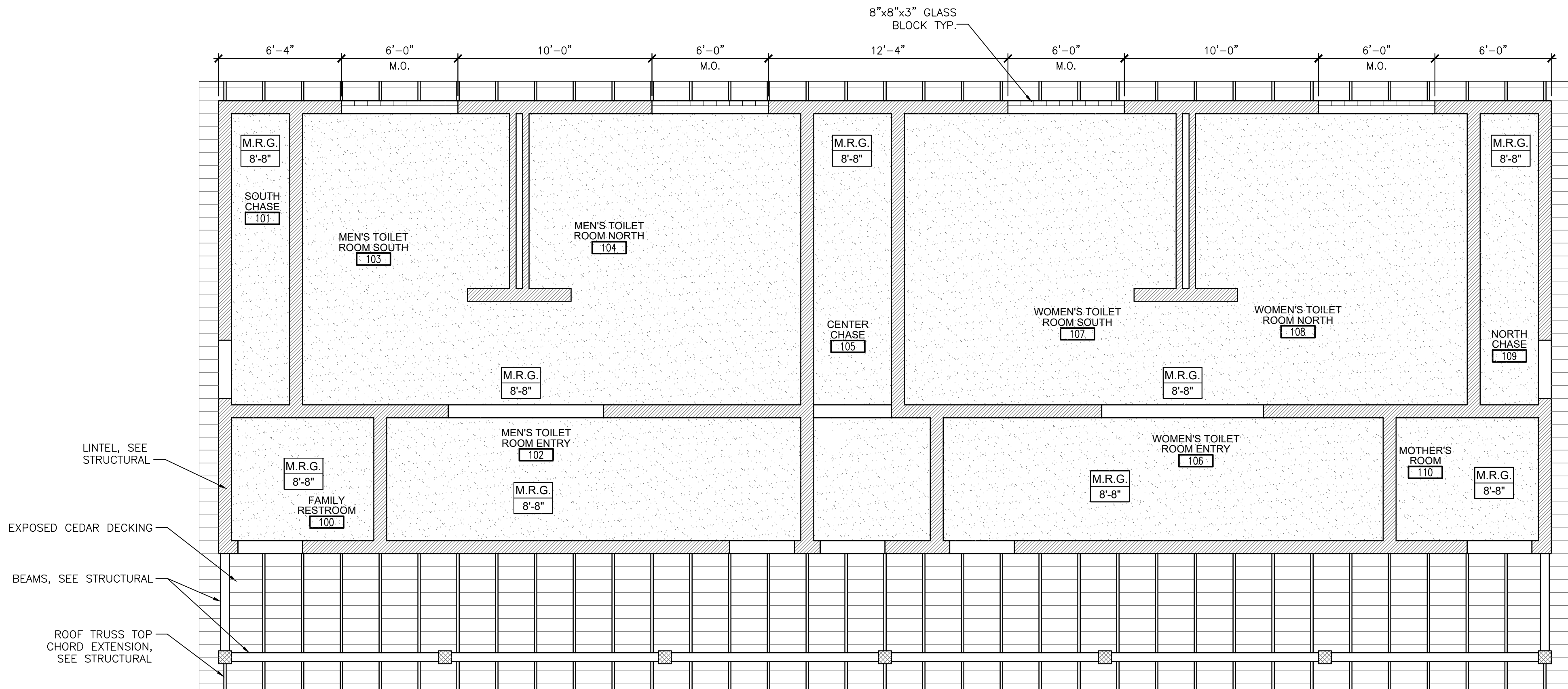
REFLECTED CEILING
PLAN

Drawn by	Checked by
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Revisions		
No.	Date	Description
	01.23.24	Bid & Permit Set

Sheet No.

A1.2



REFLECTED CEILING PLAN

SCALE: 1/4"=1'-0" (22x34); 1/8"=1'-0" (11x17)

1



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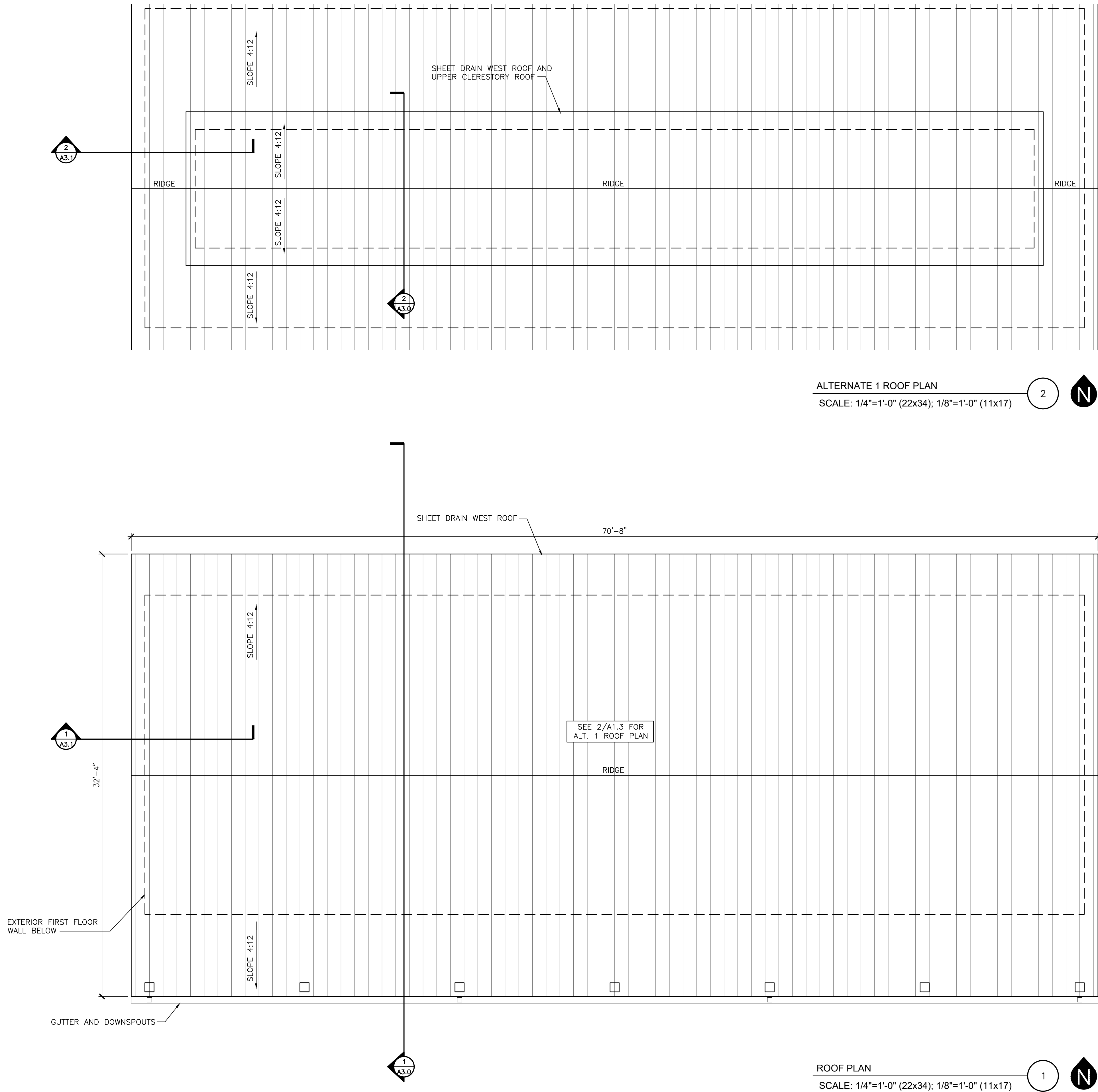
ROOF PLAN

Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
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A1.3



259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Riverside Park Restrooms

600 Labaree St
Watertown, WI

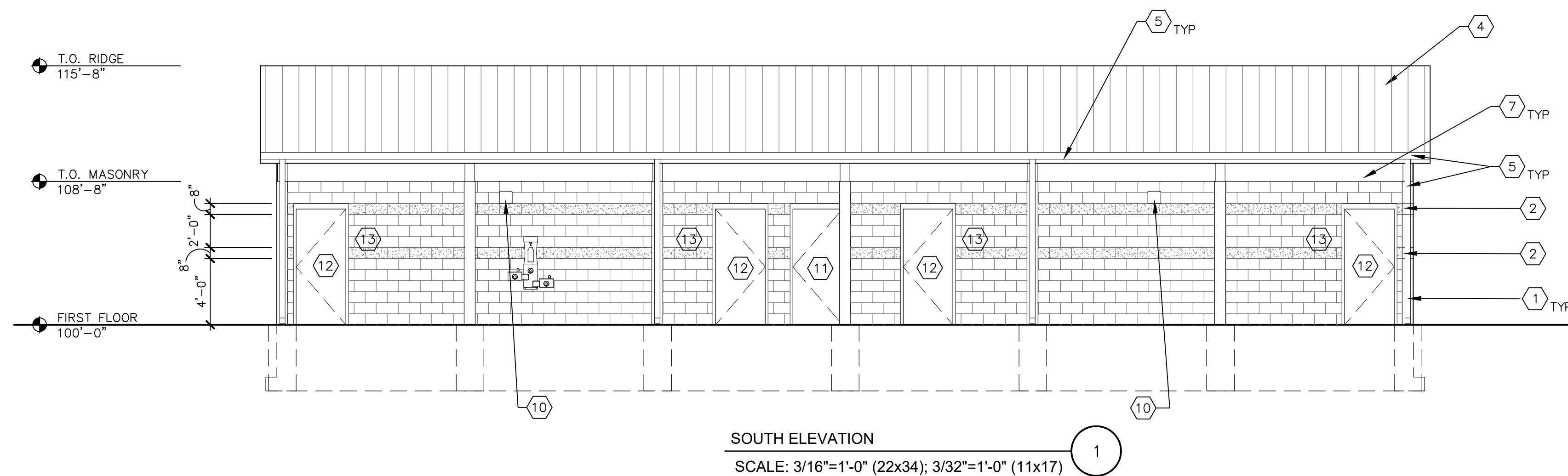
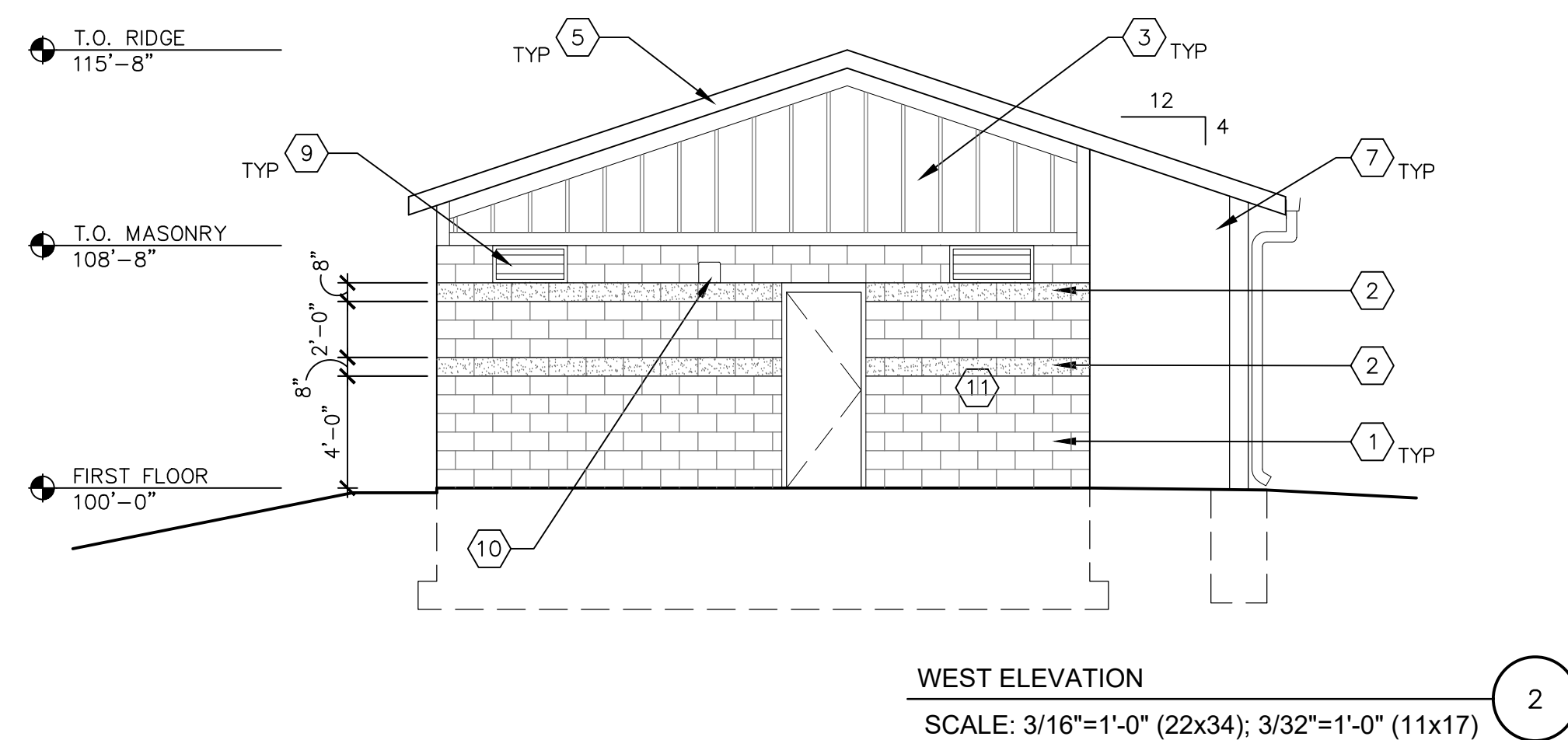
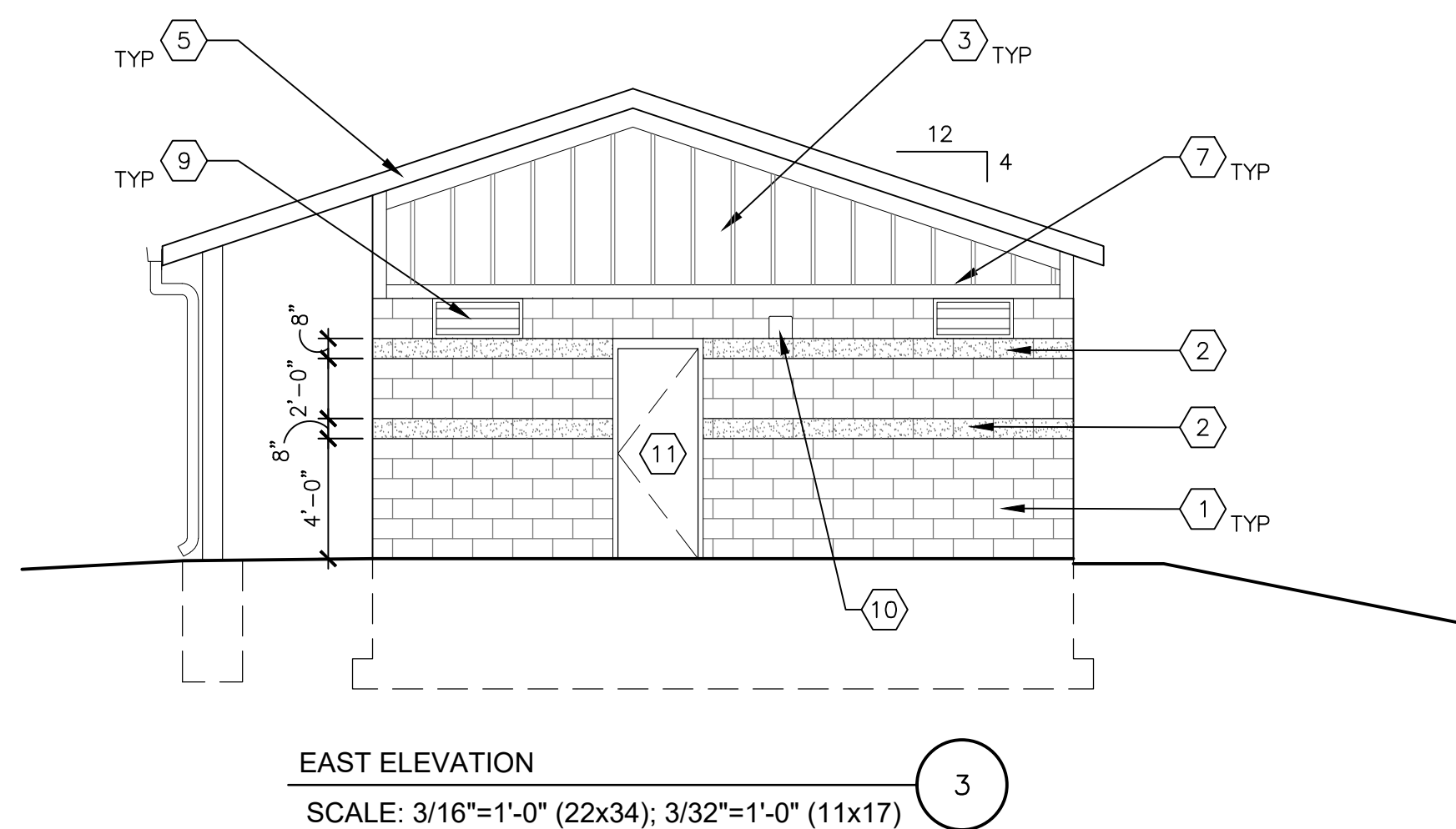
EXTERIOR ELEVATIONS

[illegible]

A2.0

22

1	CMU SPLIT FACE BLOCK (FIELD) COLOR: NATURAL, MFG: COUNTY MATERIALS OR EQUAL.	7	CEDAR CLAD STRUCTURE
2	CMU SMOOTH FACE BLOCK (ACCENT STRIPE) COLOR: STEEL GREY, MFG: COUNTY MATERIALS OR EQUAL.	8	12"x12" PREFINISHED VENT LOUVER, WITH INTERIOR MESH BUG SCREEN
3	BOARD & BATTEN LP SIDING COLOR: T.B.D.	9	EXHAUST / INTAKE LOUVER, COORDINATE WITH MECHANICALS; COLOR TO MATCH FIELD CMU.
4	BASE BID: STANDING SEAM ROOF COLOR: CHARCOAL, MFG: ATAS, OR EQUAL. ALTERNATE BID: ASPHALT SHINGLES COLOR: ESTATE GREY; MFG: OWENS CORNING DURATION OR EQUAL.	10	WALL MOUNTED LIGHT FIXTURE, COORDINATE WITH ELECTRICAL.
5	PREFINISHED ALUMINUM FASCIA, GUTTERS AND DOWNSPOUTS. COLOR: CHARCOAL GREY, MFG: ATAS, OR EQUAL.	11	HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU FIELD COLOR.
6	WINDOW, FROSTED GLASS, 3M SECURITY FILM APPLIED. COMPOSITE TRIM, TO MATCH BOARD & BATTEN SIDING	12	HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU ACCENT COLOR.
		13	SIGNAGE.
		14	8"x8" GLASS BLOCK
		15	FAUX DECORATIVE VENT



NOTE: SEE A2.1 FOR
ALT. 1 ELEVATIONS



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Riverside Park
Restrooms

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ALTERNATE 1 EXTERIOR
ELEVATIONS

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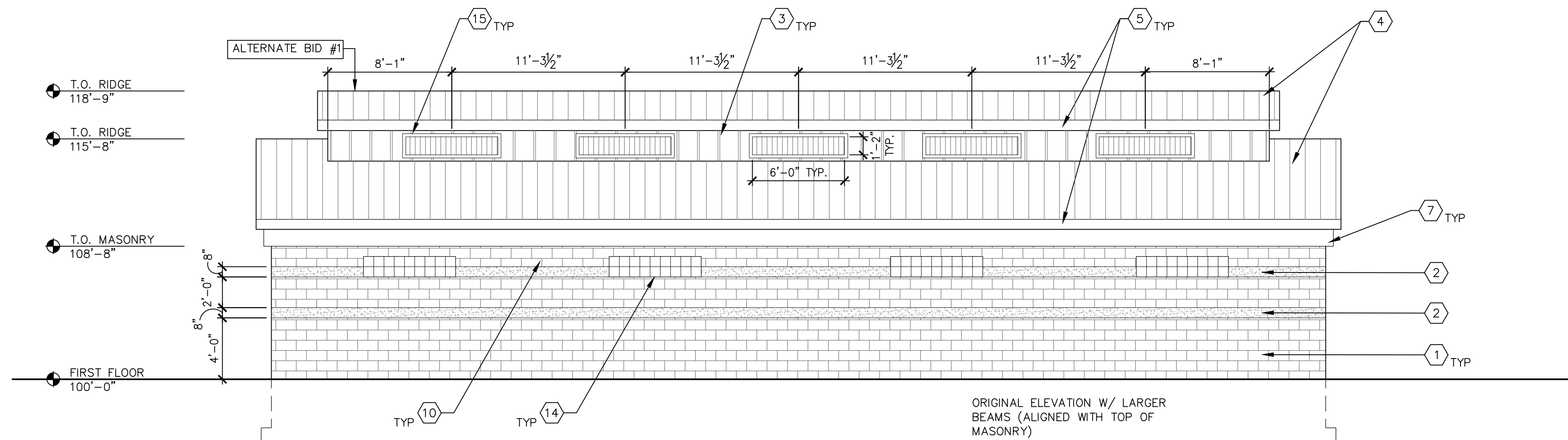
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KEY NOTES

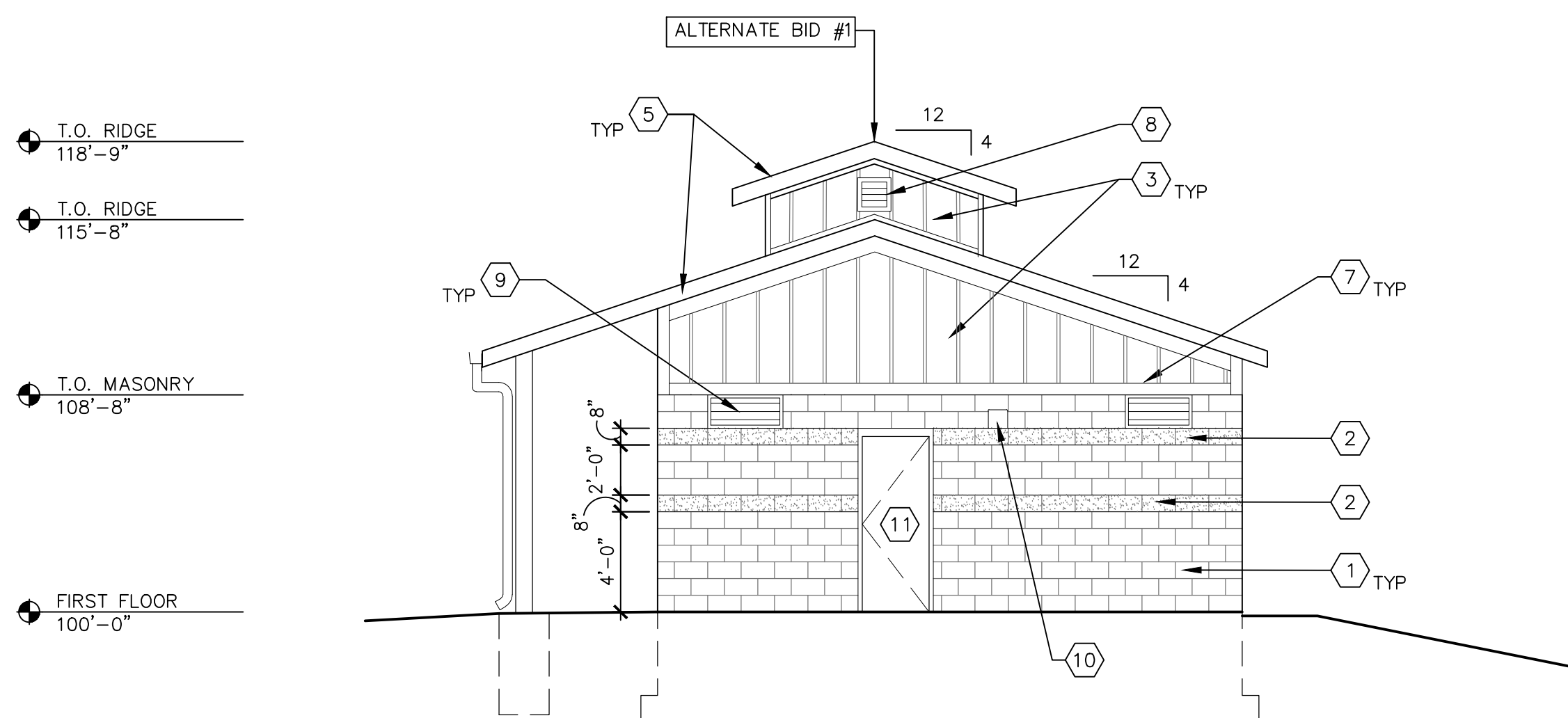
- | | | | |
|---|--|----|--|
| 1 | CMU SPLIT FACE BLOCK (FIELD)
COLOR: NATURAL, MFG: COUNTY MATERIALS
OR EQUAL. | 7 | CEDAR CLAD STRUCTURE |
| 2 | CMU SMOOTH FACE BLOCK (ACCENT STRIPE)
COLOR: STEEL GREY, MFG: COUNTY MATERIALS
OR EQUAL. | 8 | 12"x12" PREFINISHED VENT LOUVER, WITH
INTERIOR MESH BUG SCREEN |
| 3 | BOARD & BATTEN LP SIDING
COLOR: T.B.D. | 9 | EXHAUST / INTAKE LOUVER, COORDINATE WITH
MECHANICALS; COLOR TO MATCH FIELD CMU. |
| 4 | BASE BID: STANDING SEAM ROOF
COLOR: CHARCOAL, MFG: ATAS, OR EQUAL.
ALTERNATE BID: ASPHALT SHINGLES
COLOR: ESTATE GREY; MFG: OWENS CORNING
DURATION OR EQUAL. | 10 | WALL MOUNTED LIGHT FIXTURE, COORDINATE
WITH ELECTRICAL. |
| 5 | PREFINISHED ALUMINUM FASCIA, GUTTERS
AND DOWNSPOUTS.
COLOR: CHARCOAL GREY, MFG: ATAS, OR
EQUAL. | 11 | HOLLOW METAL DOOR AND FRAME, PAINTED TO
MATCH CMU FIELD COLOR. |
| 6 | WINDOW, FROSTED GLASS, 3M SECURITY FILM
APPLIED, COMPOSITE TRIM, TO MATCH BOARD &
BATTEN SIDING | 12 | HOLLOW METAL DOOR AND FRAME, PAINTED TO
MATCH CMU ACCENT COLOR. |
| | | 13 | SIGNAGE. |
| | | 14 | 8"x8" GLASS BLOCK |
| | | 15 | FAUX DECORATIVE VENT |



NORTH ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

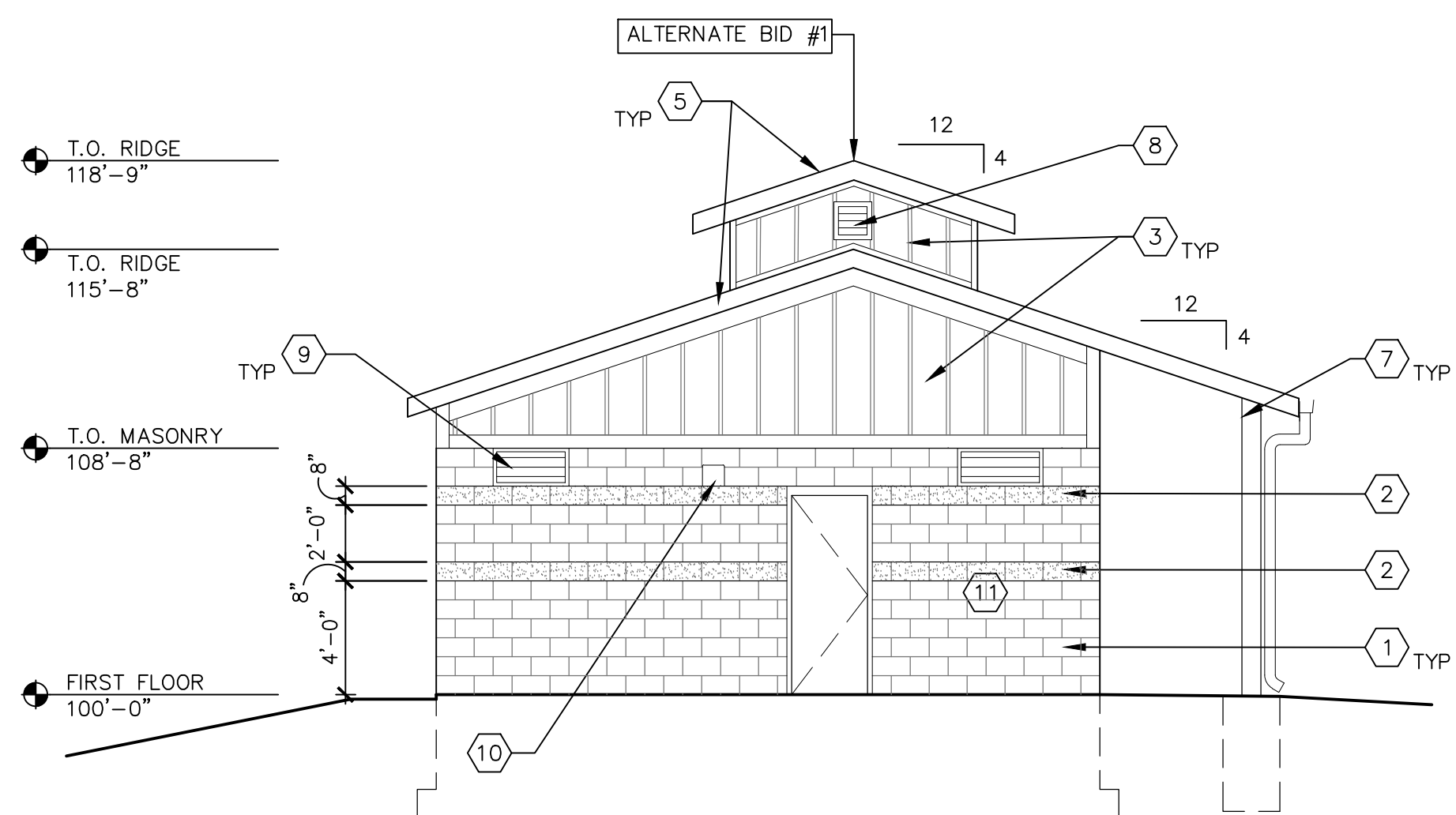
4



EAST ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

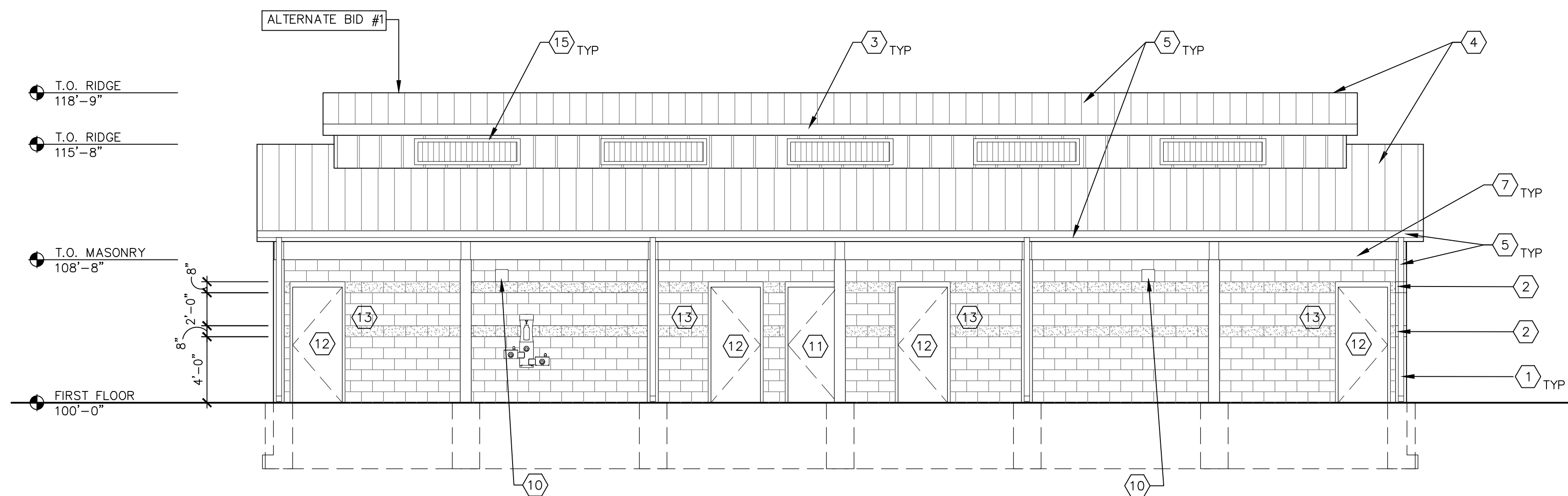
3



WEST ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

2

NOTE: SEE A2.0 FOR
BASE BID ELEVATIONS

SOUTH ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

1

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**Riverside Park
Restrooms**

New Construction

600 Labaree St
Watertown, WI

Sheet Title

BUILDING SECTIONS

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ROOF CONSTRUCTION:
- METAL PANELS OVER
- ROOF UNDERLAYMENT OVER
- 2x T&G ROOF DECK OVER
- PRE-ENGINEERED TRUSSES
- PROVIDE ICE AND WATER
SHIELD OVER ENTIRE ROOF

BEARING HT.
116'-10"

1'-4"
TYP

PREFINISHED FASCIA

VENTED SOFFIT PANEL,
TO MATCH BOARD &
BATTEN SIDING

ALTERNATE 1 BUILDING SECTION

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

2

SEE 2/A3.0 FOR ALT.
1 BUILDING SECTION

TOP OF RIDGE
115'-9"

ROOF CONSTRUCTION:
- METAL PANELS OVER
- ROOF UNDERLAYMENT OVER
- 2x T&G ROOF DECK OVER
- PRE-ENGINEERED TRUSSES
- PROVIDE ICE AND WATER SHIELD OVER ENTIRE ROOF

GUTTER AND DOWNSPOUT

PREFINISHED CEDAR FASCIA

WALL CONSTRUCTION:
- EXTERIOR CLADDING (SEE
EXTERIOR ELEVATIONS) ON
- TYVEK WRAP ON
- EXTERIOR SHEATHING OVER
- 2x6 WOOD FRAMING

WRAP POSTS W/ CEDAR

ROOF TRUSS
TOP CHORD
EXTENSION; SEE
STRUCTURAL

FLASHING

FLASHING AND
WEEP VENTS, TYP.

5" CONCRETE SLAB ON GRADE
W/ 6x6-W2.1/W2.1 WWF ON
10 MIL VAPOR BARRIER ON
2" RIGID INSULATION ON
6" COMPACTED GRAVEL; SEALED

PREFINISHED FASCIA

WALL CONSTRUCTION:
- EXTERIOR CLADDING (SEE
EXTERIOR ELEVATIONS) ON
- TYVEK WRAP ON
- EXTERIOR SHEATHING OVER
- 2x6 WOOD FRAMING

FLASHING

GLASS BLOCK

FLASHING

WALL CONSTRUCTION:
- 8" CMU, PAINT INTERIOR,
SEE ELEVATIONS FOR SMOOTH-FACE
AND SPLIT-FACE LOCATIONS
- APPLY SPRAY-ON WATER BARRIER AT
THE EXTERIOR OF ALL CMU

FOUNDATION WALL:
- CONCRETE FOUNDATION
- 2" RIGID INSULATION
- SEE STRUCTURAL FOR FOOTING AND
FOUNDATION DETAILS

BUILDING SECTION

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

1

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Riverside Park
Restrooms

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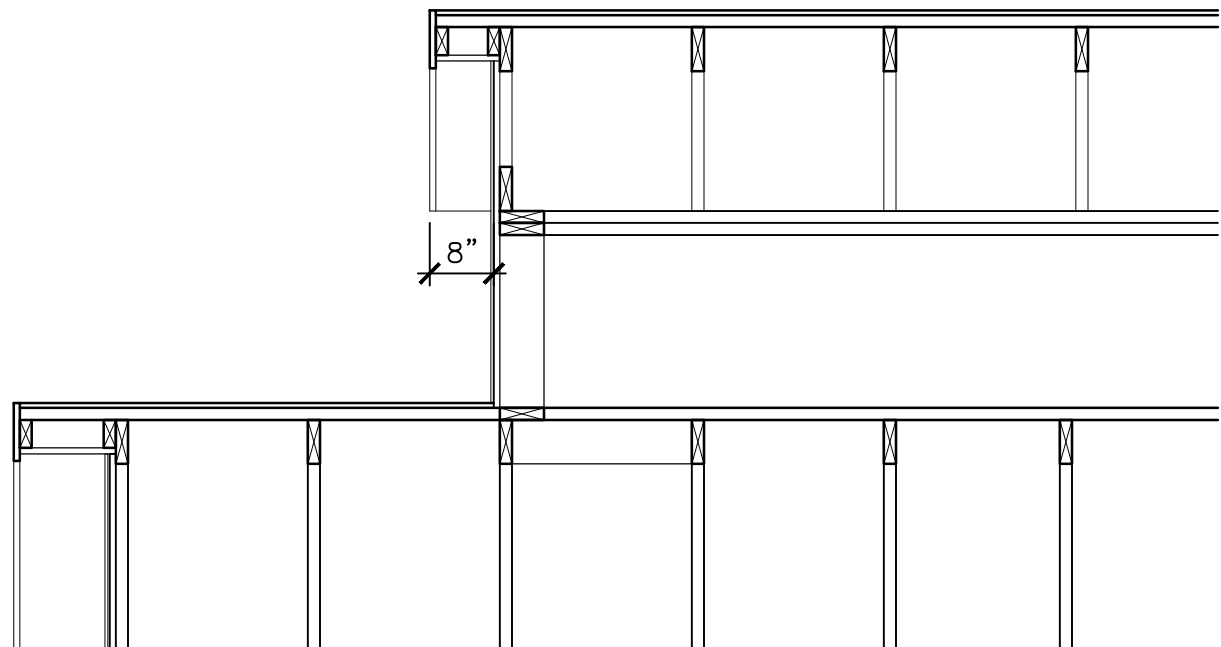
BUILDING SECTIONS

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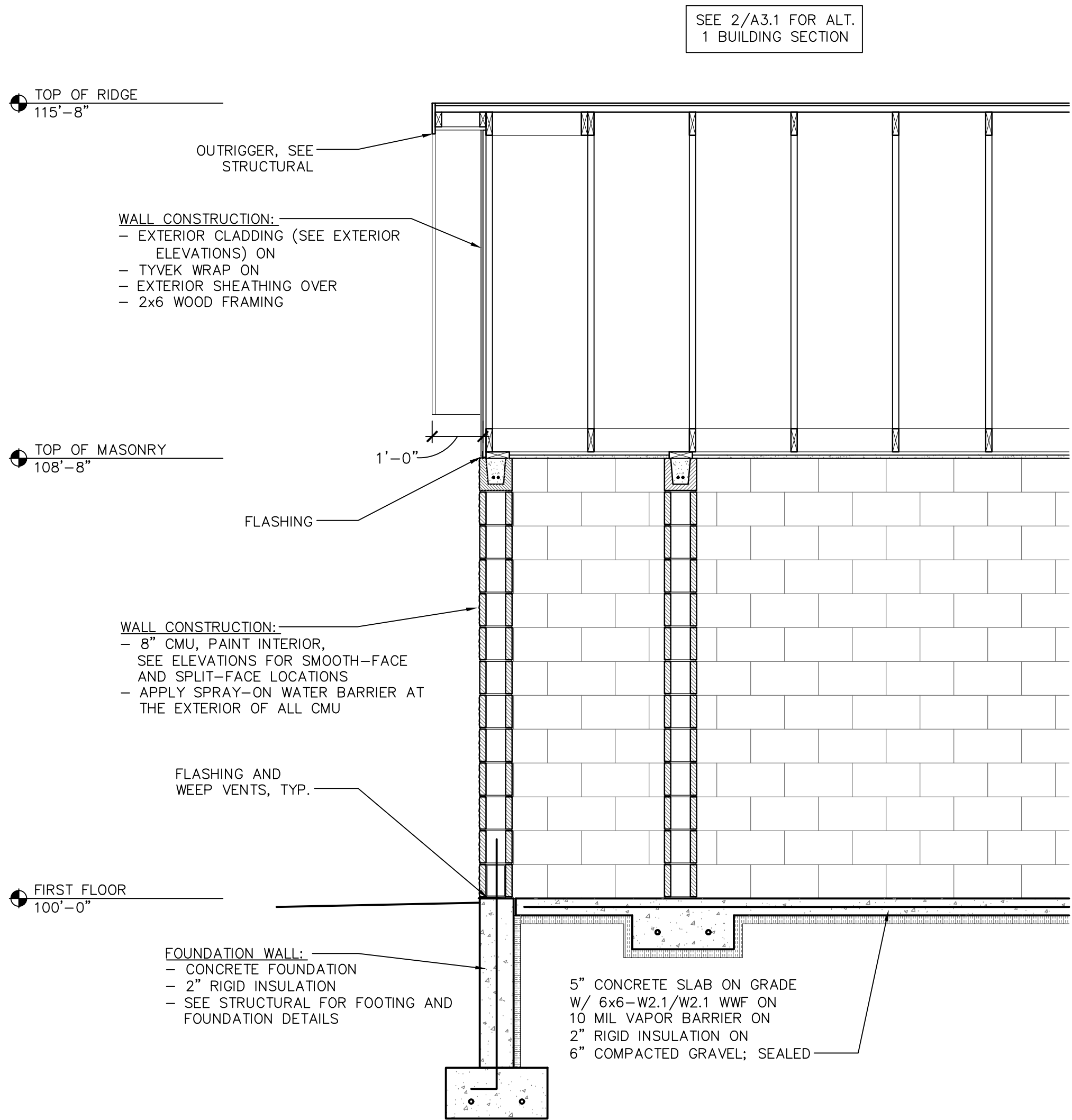
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ALTERNATE 1 BUILDING SECTION

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

2



BUILDING SECTION

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

1

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Project Info. — 22005

Riverside Park
Restrooms

New Construction

600 Labaree St
Watertown, WI

Sheet Title

INTERIOR ELEVATIONS

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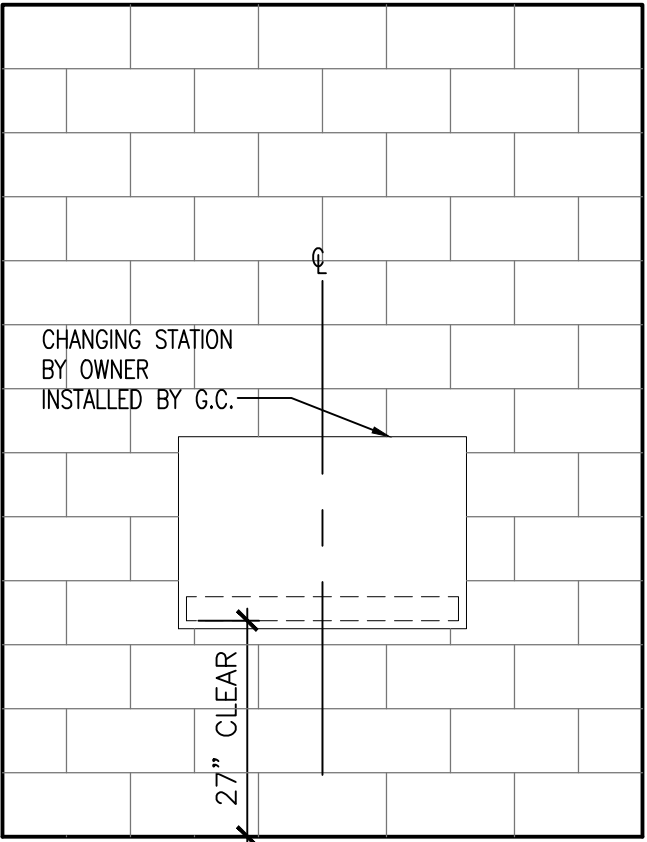
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A5.0

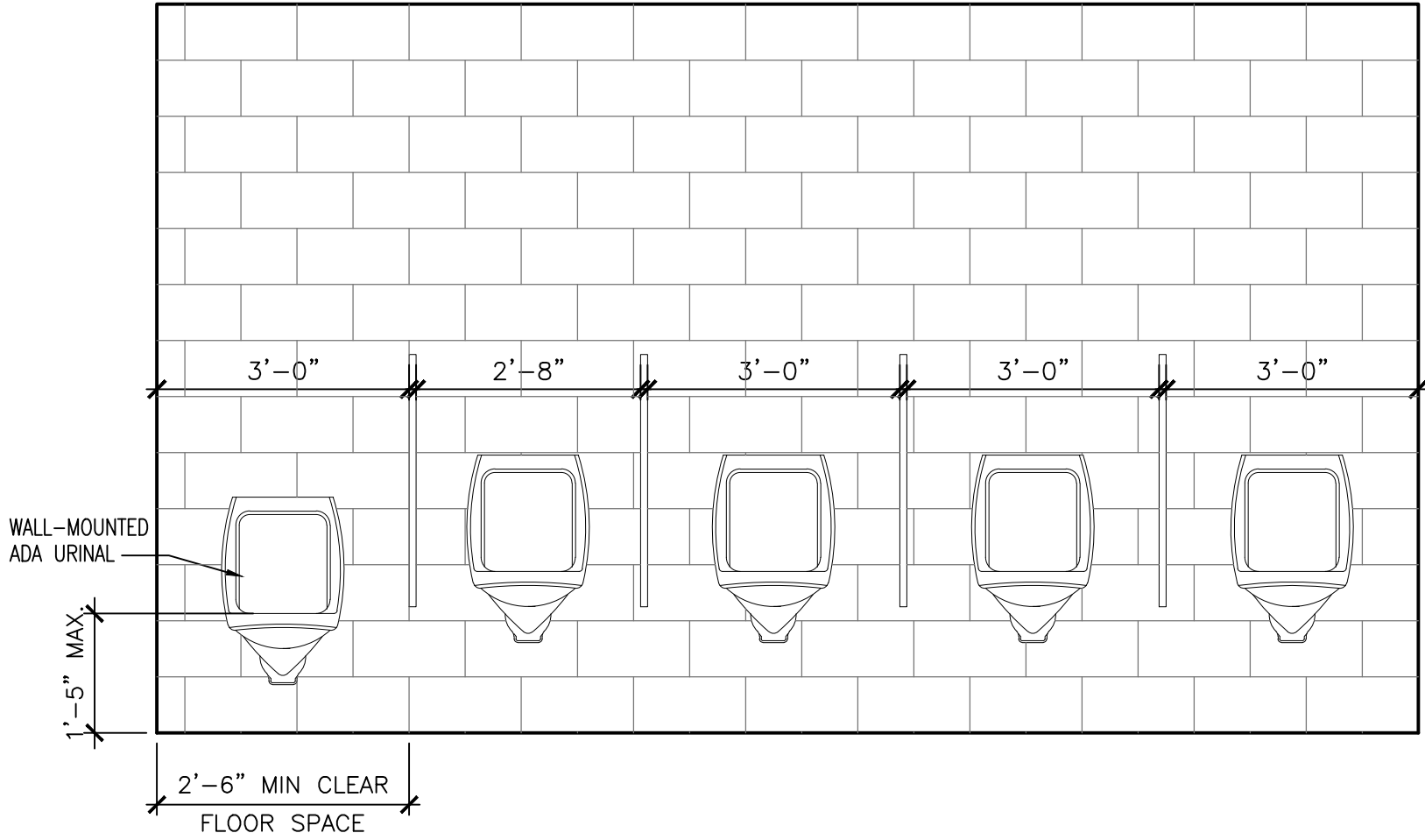
NOTES:
1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.
2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.



CHANGING STATION

SCALE: 1/2"=1'0"

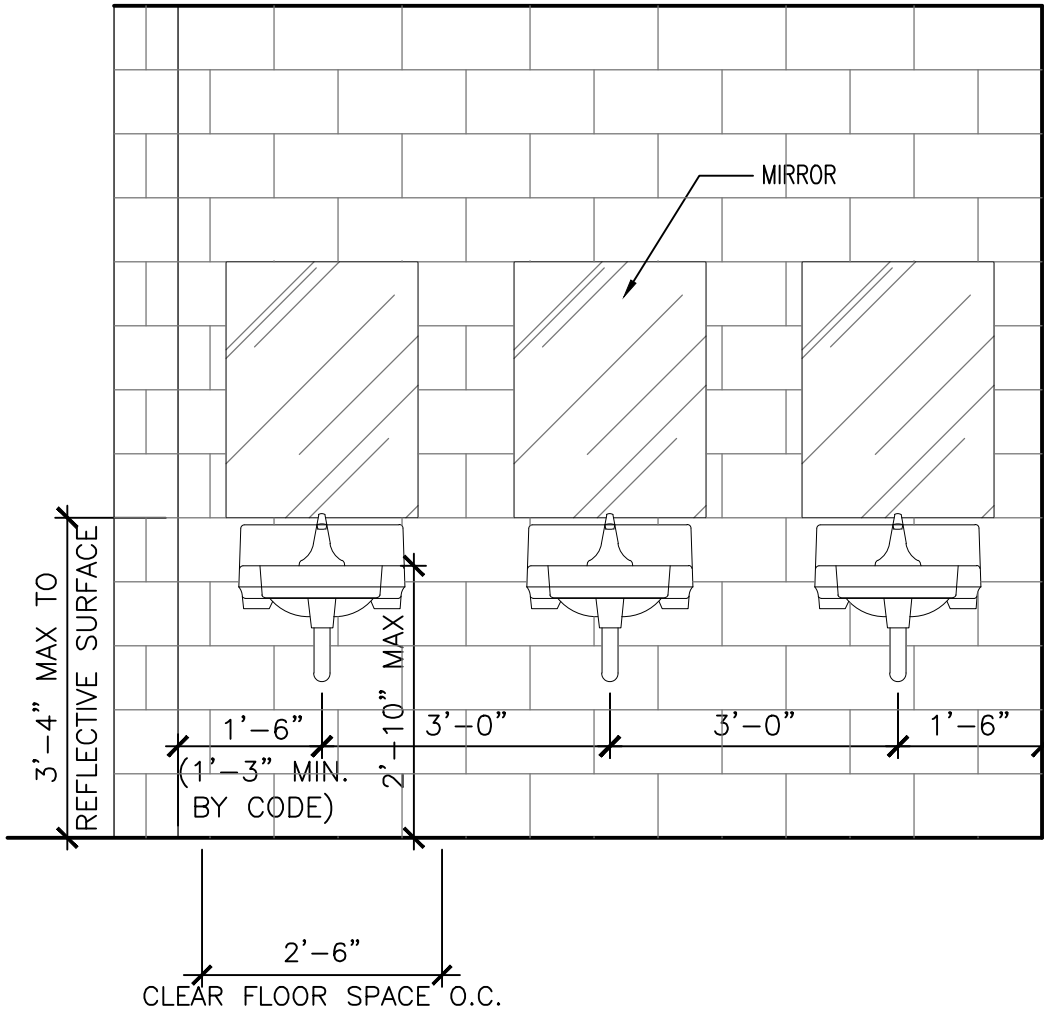
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WATER CLOSET WALL

SCALE: 1/2"=1'0"

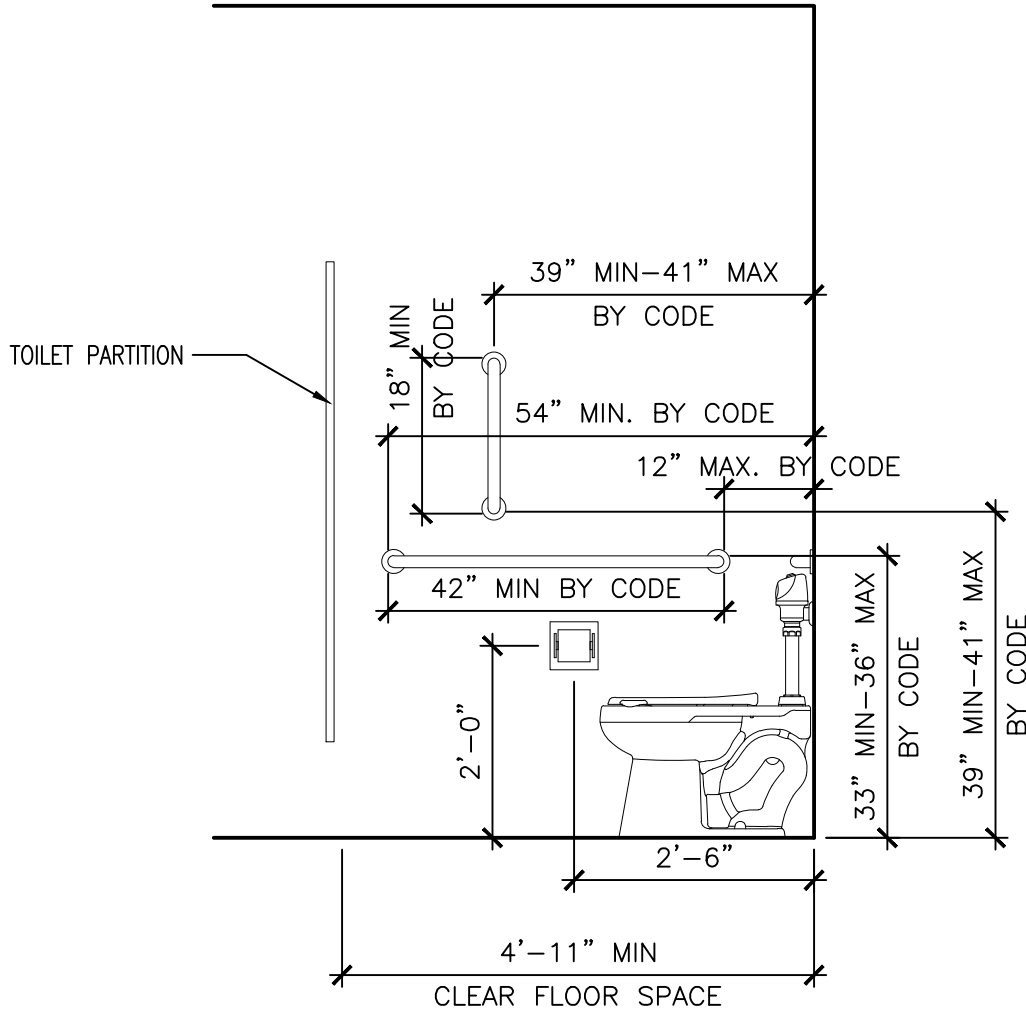
4



LAVATORY WALL

SCALE: 1/2"=1'0"

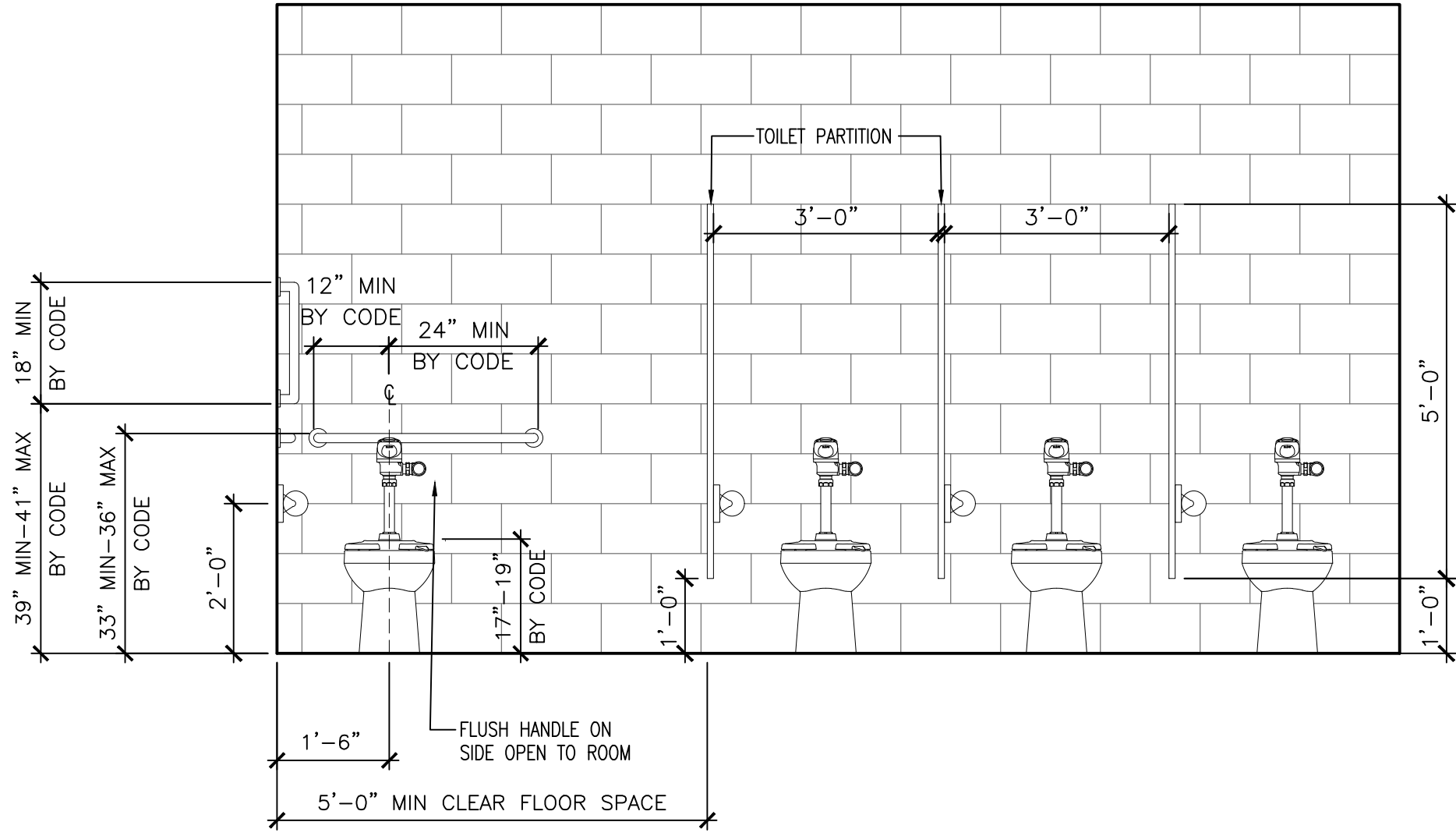
3



ADA TOILET STALL

SCALE: 1/2"=1'0"

2

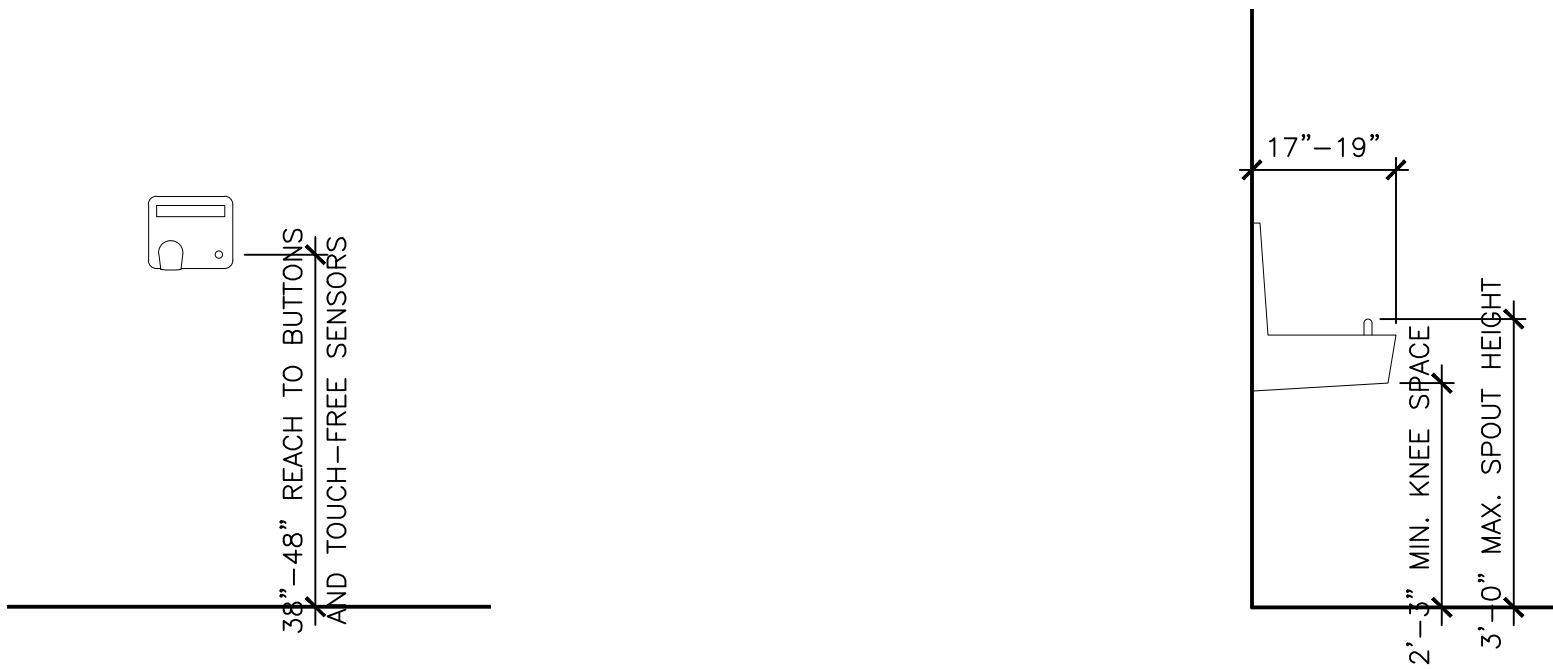


WATER CLOSET WALL

SCALE: 1/2"=1'0"

1

NOTES:
1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.
2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.



ACCESSIBLE HAND DRYER

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

8

ACCESSIBLE DRINKING FOUNTAIN

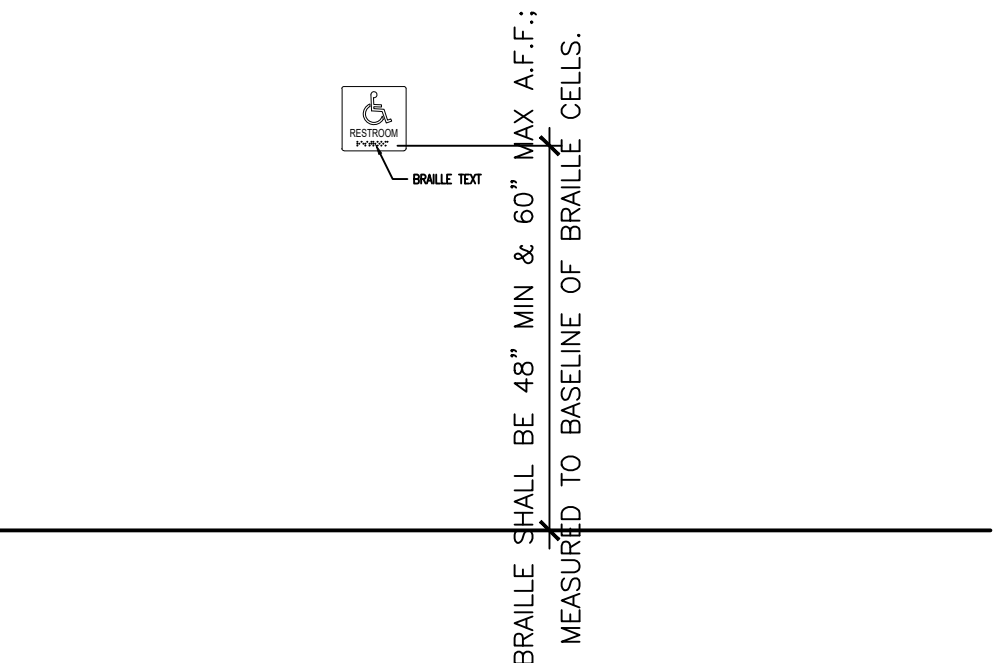
SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

7

ACCESSIBLE SOAP DISPENSER

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

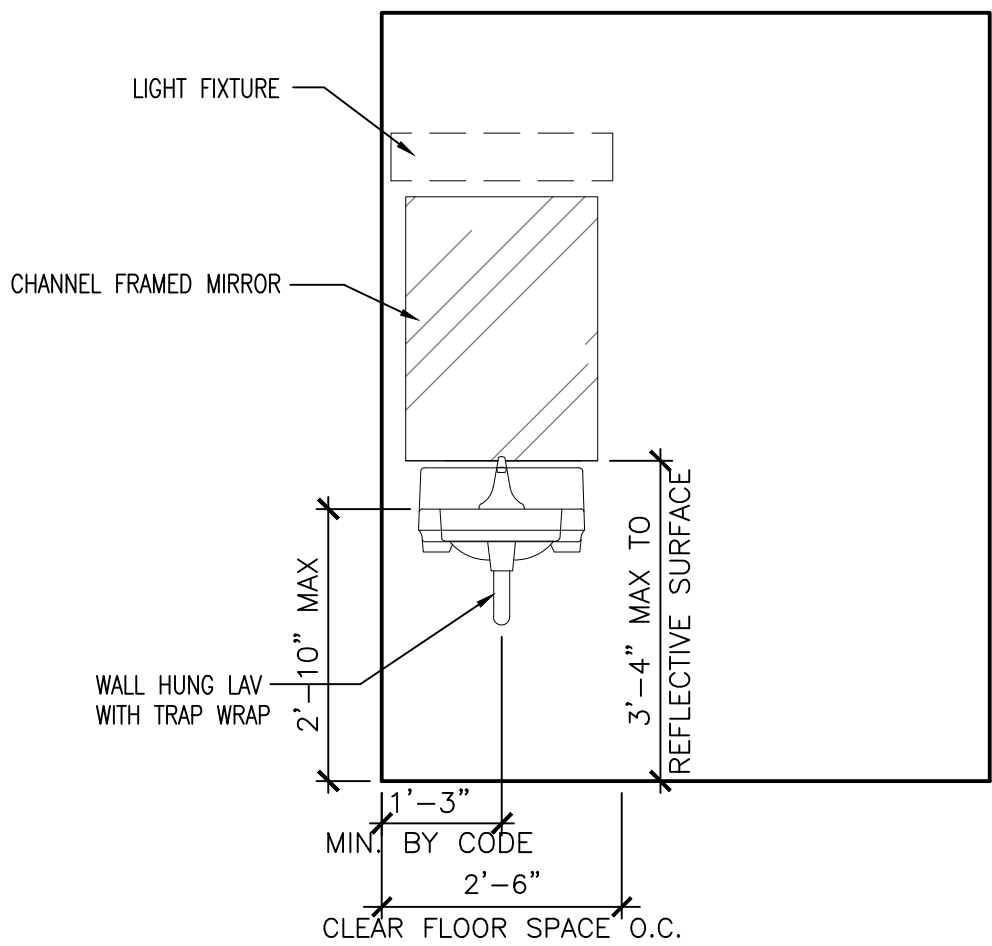
6



ACCESSIBLE TOILET ROOM SIGN

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

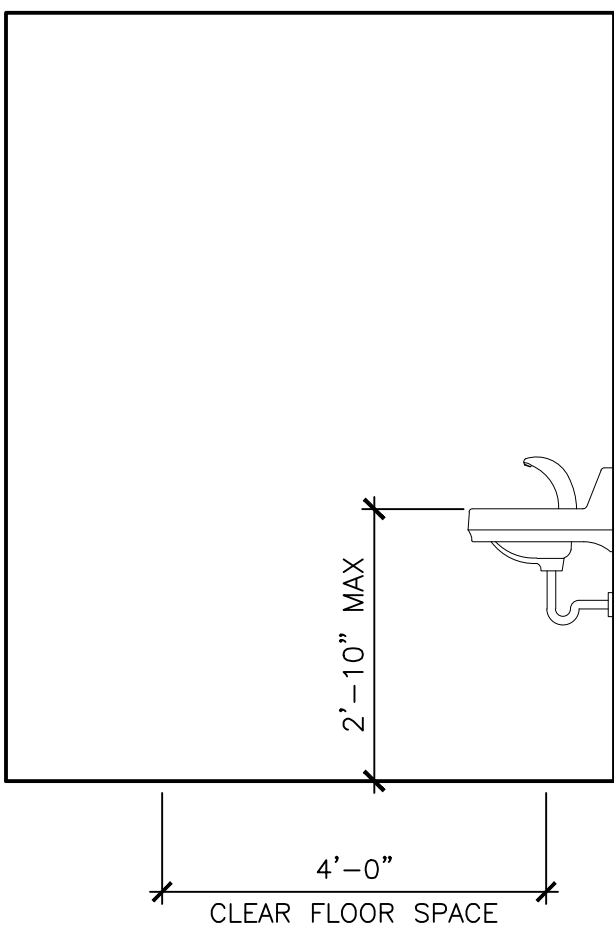
5



MOTHER'S ROOM

SCALE: 1/2"=1'0"

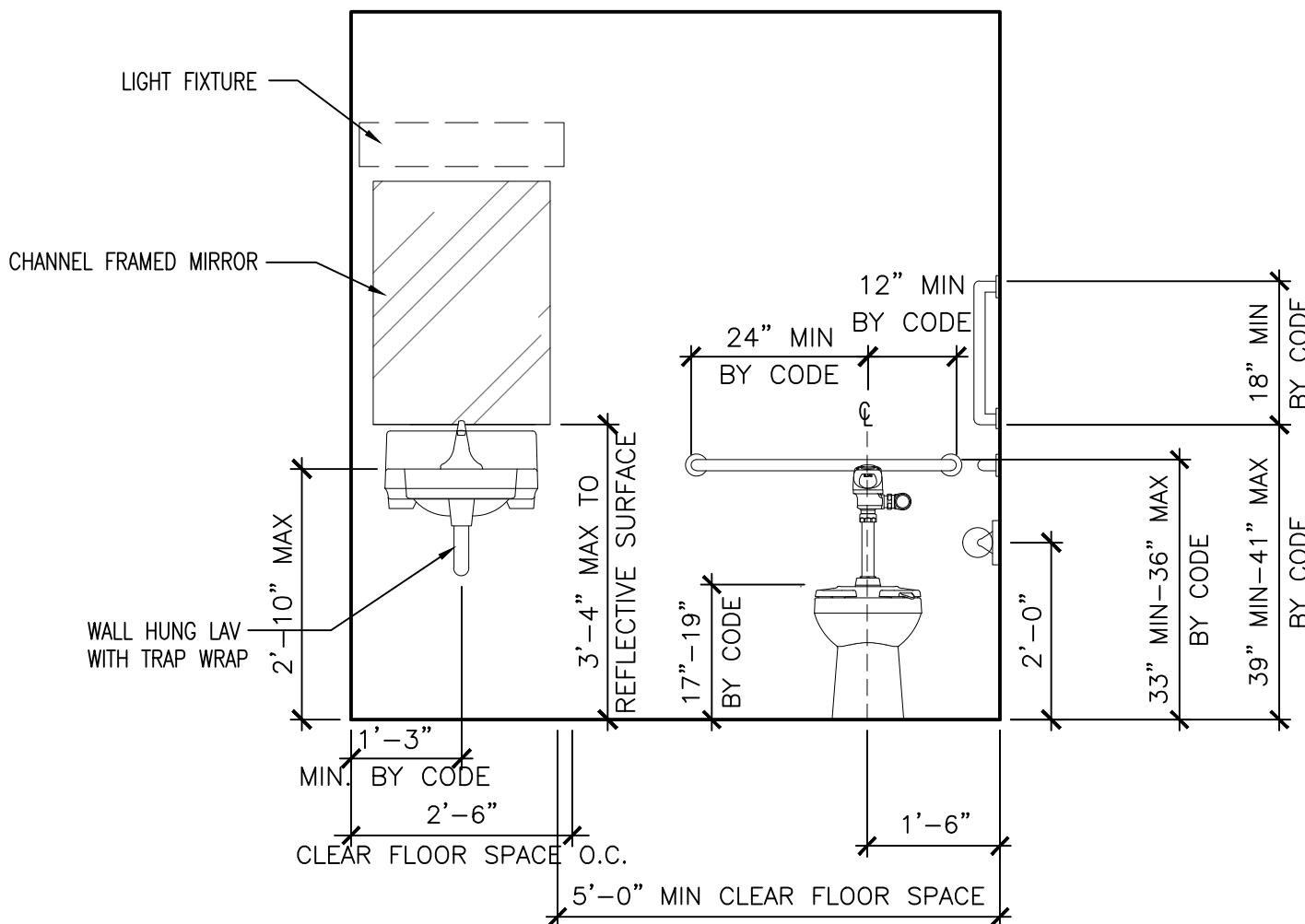
4



FAMILY RESTROOM

SCALE: 1/2"=1'0"

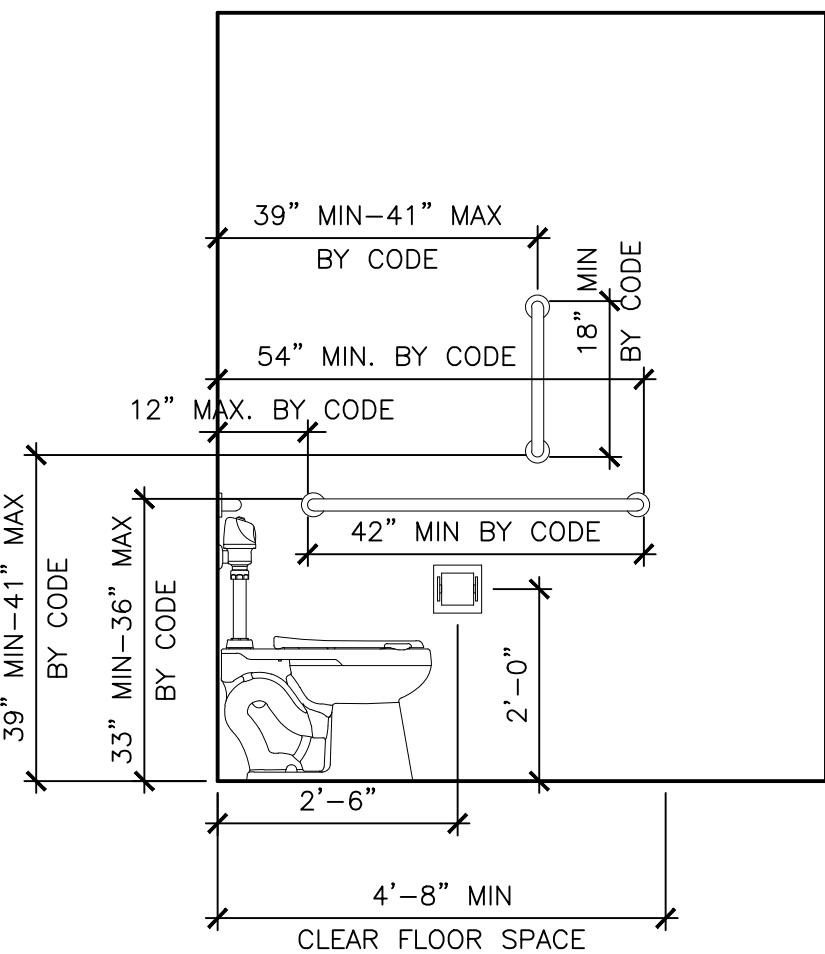
3



FAMILY RESTROOM

SCALE: 1/2"=1'0"

2



FAMILY RESTROOM

SCALE: 1/2"=1'0"

1

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THRIVE
ARCHITECTS

Architect
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Riverside Park
Restrooms

New Construction

600 Labaree St
Watertown, WI

Sheet Title

INTERIOR ELEVATIONS

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Project Info. — 22005

Riverside Park
Restrooms

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Watertown, WI

Sheet Title

DOOR, WALL TYPES
AND SCHEDULES

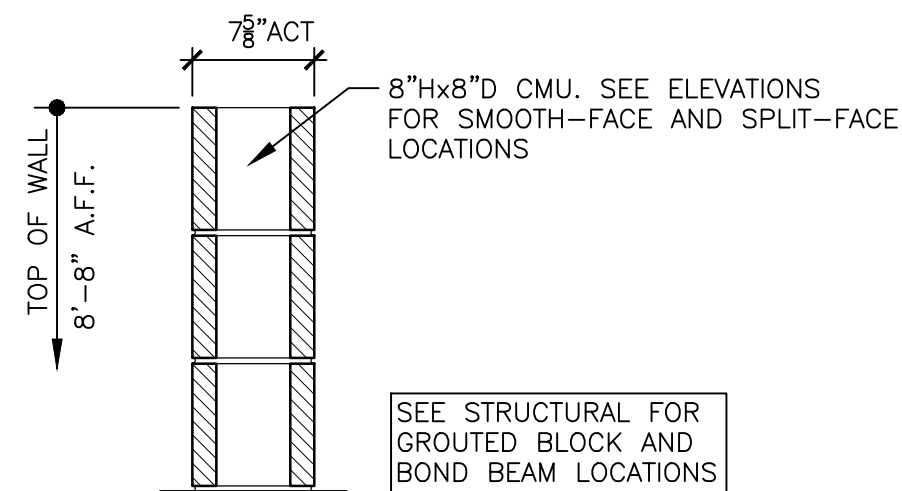
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JAJ	DMR

Revisions

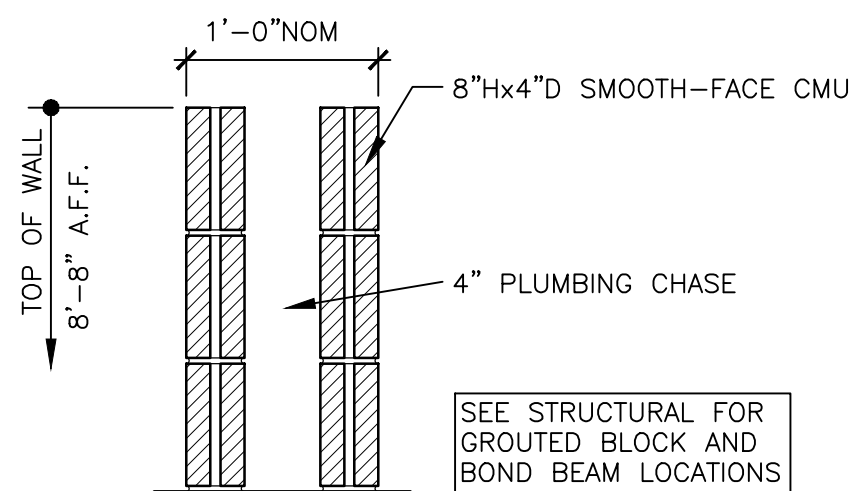
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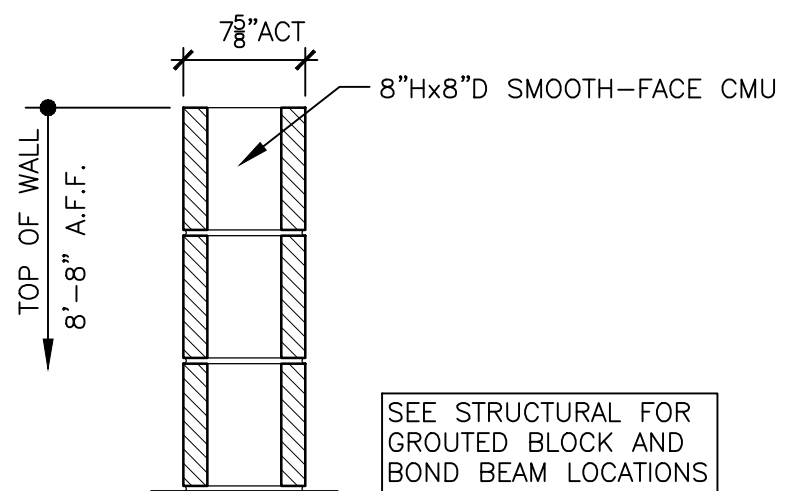
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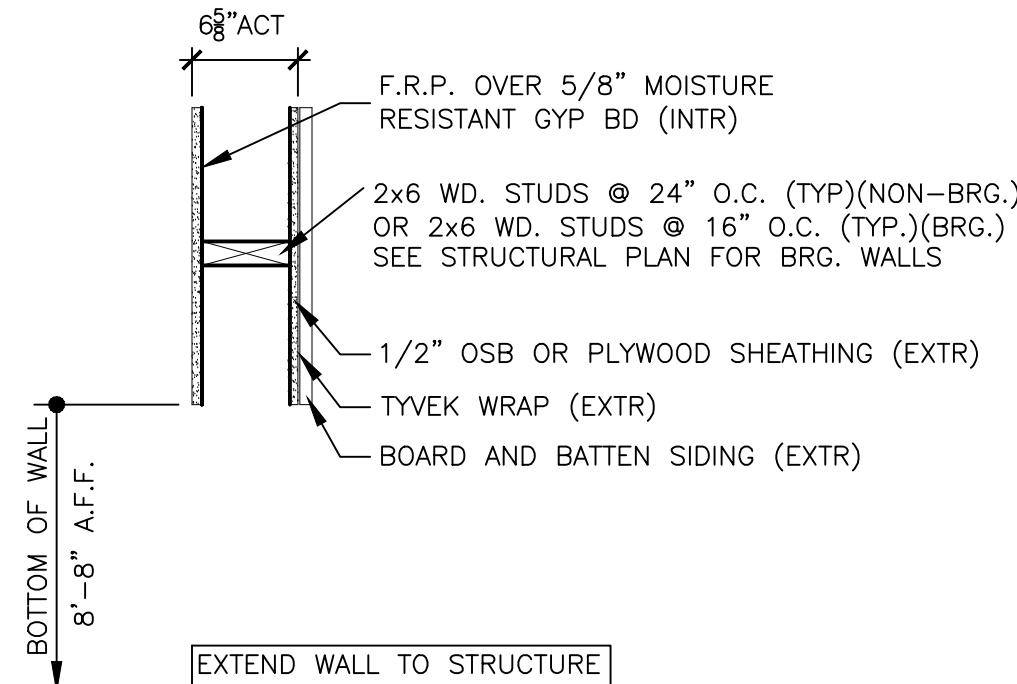
WALL TYPE A



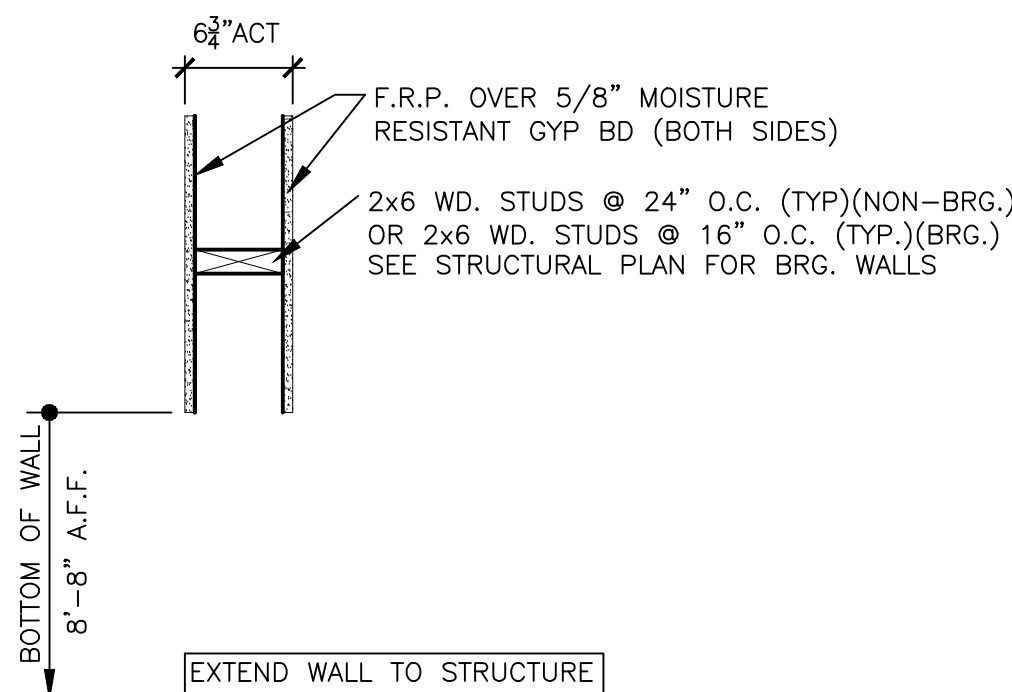
WALL TYPE B



WALL TYPE C



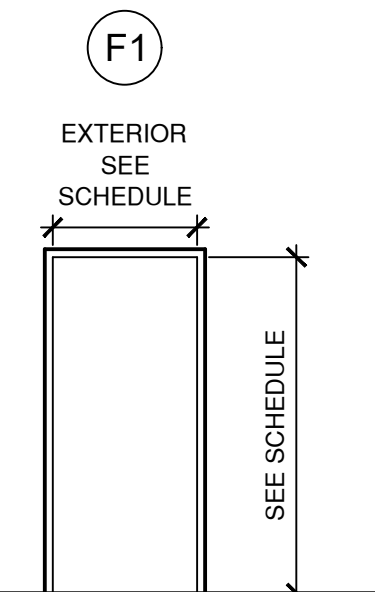
WALL TYPE D

NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF
STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

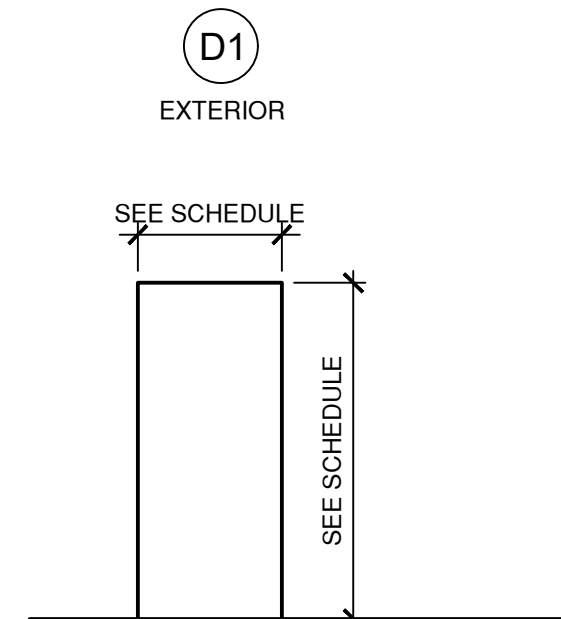
WALL TYPE E

NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF
STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

FRAME TYPES

FRAME: HOLLOW METAL
TRIM: NONE
FINISH: PAINTED

DOOR TYPES

THICKNESS: 1-3/4"
MATERIAL: HOLLOW METAL
PANEL: FLUSH
FINISH: PAINTED
GLAZING: NONE
HARDWARE: SEE DOOR
SCHEDULE NOTES

DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	NO. OF PANELS	SIZE		DOOR TYPE	FRAME TYPE	FIRE RATING	REMARKS
			WIDTH	HEIGHT				
100	FAMILY RESTROOM	1	3'-0"	7'-0"	D1	F1		HG1
101	SOUTH CHASE	1	2'-8"	7'-0"	D1	F1		HG2
102	MEN'S TOILET ROOM ENTRY	1	3'-0"	7'-0"	D1	F1		HG1
105	CENTER CHASE	1	3'-0"	7'-0"	D1	F1		HG2
106	WOMEN'S TOILET ROOM ENTRY	1	3'-0"	7'-0"	D1	F1		HG1
109	NORTH CHASE	1	2'-8"	7'-0"	D1	F1		HG2
110	MOTHER'S ROOM	1	3'-0"	7'-0"	D1	F1		HG1

NOTES:

- G.C. TO SUPPLY ALL DOOR HARDWARE REQUIRED BY CODE.
- DOOR HARDWARE SHALL COMPLY WITH ICC/ANSI A117.1 SEC 404.2.6 — HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE HARDWARE SHALL BE PLACED AT LEAST 34 INCHES, BUT NOT MORE THAN 48 INCHES ABOVE THE FLOOR SURFACE.
- COORDINATE REQUIREMENTS OF ELECTRONIC STRIKE WITH OWNER FOR REMOTE/TIMED ACCESS TO PUBLIC DOORS.

EXHAUST FANS (EF)																		
TYPE MARK	MARK	MANUFACTURER	MODEL	SERVICE	LOCATION	DRIVE	AIRFLOW (CFM)	ESP (IN WC)	RPM	BACKDRAFT DAMPER	MOTOR		UNIT ELECTRICAL		WEIGHT (LBS)	SONES	REMARKS	
											HP	BHP	VOLTS / PH	STARTER				DISCONNECT
EF	1	GREENHECK	SQ-100-VG	WOMENS RESTROOM	IN JOIST SPACE	DIRECT	600	0.25	985	MOTORIZED	1/4	0.04	120 / 1Ø	MANUAL	BY MANUFACTURER	45	4.3	1
EF	2	GREENHECK	SQ-100-VG	MEN'S RESTROOM	IN JOIST SPACE	DIRECT	675	0.25	1046	MOTORIZED	1/4	0.05	120 / 1Ø	MANUAL	BY MANUFACTURER	45	5.0	1
EF	3	GREENHECK	SP-80-VG	FAMILY RESTROOM	CEILING SUSPENDED	DIRECT	75	0.25	935	-	-	-	120 / 1Ø	MANUAL	BY MANUFACTURER	12	0.3	1
EF	4	GREENHECK	SP-80-VG	JANITOR'S CLOSET	CEILING SUSPENDED	DIRECT	75	0.25	935	-	-	-	120 / 1Ø	MANUAL	BY MANUFACTURER	12	0.3	1
EF	5	GREENHECK	SP-80-VG	MOTHER'S ROOM	CEILING SUSPENDED	DIRECT	75	0.25	935	-	-	-	120 / 1Ø	MANUAL	BY MANUFACTURER	12	0.3	1
1. FAN TO BE PROVIDED WITH ECM ADJUSTABLE SPEED MOTOR. PROVIDE ADJUSTABLE SPEED DIAL IN AN ACCESSIBLE LOCATION ON FAN.																		

LOUVER

MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	CONSTRUCTION		CFM	SIZE			MAX FREE AREA VELOCITY - FPM	MAX PRESSURE DROP - IN WC	REMARKS
					TYPE	MATERIAL		LENGTH	WIDTH	DEPTH			
L-1	GREENHECK	ESD-403	SEE PLANS	WOMENS RESTROOM	FASTENED	ALUMINUM	750	26"	16"	6"	649	0.1	1, 2, 3
L-2	GREENHECK	ESD-403	SEE PLANS	MENS RESTROOM	FASTENED	ALUMINUM	750	26"	16"	6"	649	0.1	1, 2, 3
L-3	GREENHECK	ESD-202	SEE PLANS	WOMENS RESTROOM	FASTENED	ALUMINUM	625	26"	16"	6"	700	0.1	1, 2, 3
L-4	GREENHECK	ESD-403	SEE PLANS	MENS RESTROOM	FASTENED	ALUMINUM	700	26"	16"	6"	606	0.1	1, 2, 3

1. COORDINATE COLOR WITH ARCHITECT

2. PROVIDE WITH INSECT SCREEN

3. LOUVERS WILL BE PROVIDED BY THE GENERAL CONTRACTOR UNDER DIVISION 08 90 00. THE SELECTIONS ABOVE ARE FOR MECHANICAL PERFORMANCE CRITERIA ONLY.

DIFFUSERS AND GRILLES

MARK	MANUFACTURER	MODEL	TYPE	SERVICE	MATERIAL	CONFIGURATION			FINISH	REMARKS
						BLADES		MOUNTING / FRAME		
						SPACING (IN)	ANGLE			
S1	TITUS	TMR	ROUND CONICAL	SUPPLY	STEEL	-	-	LAY-IN	WHITE	1
E1	TITUS	350FL	SINGLE DEFLECTION	EXHAUST	STEEL	3/4"	35°	LAY-IN	WHITE	1

NOTE: SEE PLANS FOR NECK SIZES

1. ARCHITECT TO CONFIRM COLOR SELECTION

Sequence of Operation: Exhaust fans and motor operated control dampers

Note: All exhaust fans will take an occupancy input from the lighting system. In all cases the fan shall receive an occupied signal from the associated zone lighting occupancy sensor. The method of delivery of the occupancy status from the lighting system may vary slightly from zone to zone. If there is no occupancy sensor in a specific zone or space then the exhaust fan operation should be indexed to turn on and off in sequence with the manual light switch in that room or zone.

Lighting System Interface:
The lighting occupancy sensor shall send a signal from the auxiliary contact of the occupancy sensor to the HOA controller of inline exhaust fans EF-1 and EF-2. Fans should be programmed to run for 10 minutes after the lighting occupancy sensor has turned off the lights to facilitate adequate removal of odors. If communication is lost with the lighting system, the exhaust fan shall continue to operate until the programmed time out of 10 minutes after the room has switched to unoccupied mode.

The lighting occupancy sensor shall send a direct 0-10V signal from the auxiliary contact of the occupancy sensor directly to the ECM motor of ceiling mounted exhaust fans EF-3 and EF-5. Fans should operate when lighting is on and turn off when lighting occupancy sensors times out, switching the room to an unoccupied set point. This timeout shall be no longer than 30 minutes.

Ceiling mounted EF-4 shall be controlled directly by the manual light switch in the Janitor's Closet.

Occupancy Mode: The occupancy mode shall be communicated to each exhaust fan via a binary input. Valid Occupancy modes for the exhaust fans shall be:

Occupied: Normal operating mode for occupied spaces during normal operation. When the lighting sensor is in the occupied mode the associated exhaust fan shall be energized and shall maintain the scheduled space airflow. When a fan is energized the associated motorized dampers shall open.

Unoccupied Standby: Mode used for unoccupied spaces. The occupancy sensor integral to the lighting system shall be used to indicate that the space is occupied or unoccupied. In the standby mode the exhaust fan airflow setpoint will be reduced to the minimum CFM, scheduled for 0 CFM. When the fan enters unoccupied mode the motor shall shut off and the associated motorized dampers shall close.

Motorized Dampers: Each fan shall be provided with a motorized control damper. Control dampers are intended to prevent backflow of outdoor air into the exhaust system when the system is de-energized.

Exhaust: Each exhaust fan will have an associated motorized control damper. When the fan is energized the associated motorized damper shall open. The damper shall close when the fan shuts off. Actuators shall be selected so that these motorized exhaust dampers fail open.

Intakes: Each outdoor air louver will have an associated motorized control damper. When any one of the associated exhaust fans are energized that the associated motorized damper at the intake louver shall open. The intake damper shall close when all associated exhaust dampers prove closed. Actuators shall be selected so that motorized intake dampers fail closed.

Heat is not provided by this system. The intent is that the domestic water systems will be shut off and drained in advance of freezing or sub-freezing conditions.

ABBREVIATIONS	HVAC LEGEND	GENERAL NOTES						
<div>AFF AP ABOVE FINISHED FLOOR ACCESS PANEL</div> <div>BOD BOP BOTTOM OF DUCT BOTTOM OF PIPE</div> <div>CA COMBUSTION AIR</div> <div>COND CONDENSATE DRAIN</div> <div>CHWR CHILLED WATER RETURN</div> <div>CHWS CHILLED WATER SUPPLY</div> <div>CR LOW PRESSURE STEAM CONDENSATE</div> <div>CWR CONDENSER WATER RETURN</div> <div>CWS CONDENSER WATER SUPPLY</div> <div>DE DISHWASHER EXHAUST</div> <div>DN DOWN</div> <div>EA EXHAUST AIR</div> <div>GSHXR GROUND SOURCE HEAT EXCHANGER RETURN</div> <div>GSHXS GROUND SOURCE HEAT EXCHANGER SUPPLY</div> <div>HPS HIGH PRESSURE STEAM</div> <div>HWR HOT WATER RETURN</div> <div>HWS HOT WATER SUPPLY</div> <div>KE KITCHEN EXHAUST</div> <div>LPS LOW PRESSURE STEAM</div> <div>MPS MEDIUM PRESSURE STEAM</div> <div>NC NORMALLY CLOSED</div> <div>NG NATURAL GAS</div> <div>NO NORMALLY OPEN</div> <div>OA OUTSIDE AIR</div> <div>RA RETURN AIR</div> <div>RCOVR ENERGY RECOVERY RETURN</div> <div>RCOVS ENERGY RECOVERY SUPPLY</div> <div>RELRF RELIEF AIR</div> <div>RL REFRIGERATION LIQUID</div> <div>RS REFRIGERATION SUCTION</div> <div>SA SUPPLY AIR</div> <div>SOLR SOLAR THERMAL RETURN</div> <div>SOLR SOLAR THERMAL SUPPLY</div> <div>TA TRANSFER AIR</div> <div>VFD VARIABLE FREQUENCY DRIVE</div> <div>X EXISTING</div>	<div> NEW HVAC EQUIPMENT </div> <div> NEW DUCTWORK </div> <div> EXISTING MECHANICAL COMPONENT </div> <div> DEMOLISHED MECHANICAL COMPONENT </div> <div> MECHANICAL EQUIPMENT SERVICE AREA </div> <div> KEY NOTE </div> <div> SUPPLY AIR DUCT UP </div> <div> SUPPLY AIR DUCT DOWN </div> <div> RETURN AIR DUCT UP </div> <div> RETURN AIR DUCT DOWN </div> <div> OUTSIDE AIR DUCT UP </div> <div> OUTSIDE AIR DUCT DOWN </div> <div> EXHAUST AIR DUCT UP </div> <div> EXHAUST AIR DUCT DOWN </div> <div> ELBOW WITH TURNING VANES </div> <div> FLEX DUCT </div> <div> MOTORIZED DAMPER </div> <div> BACK DRAFT DAMPER </div> <div> FIRE DAMPER </div> <div> SMOKE DAMPER </div> <div> COMBINATION FIRE/SMOKE DAMPER </div> <div> DAMPER WITH SEQUENCING NUMBER </div> <div> BALANCING DAMPER </div> <div> AIR FLOW INDICATOR </div> <div> DOOR UNDER CUT </div> <div> TRANSFER/DOOR GRILLE </div> <div> NEW SUPPLY DIFFUSER </div> <div> NEW RETURN/TRANSFER GRILLE </div> <div> NEW EXHAUST GRILLE </div> <div> CO2 SENSOR </div> <div> PRESSURE DIFFERENTIAL SENSOR </div> <div> STATIC PRESSURE CONTROLLER </div> <div> THERMOSTAT </div> <div> TEMPERATURE SENSOR </div> <div> THERMOSTAT / CO2 SENSOR </div> <div> TEMPERATURE / CO2 SENSOR </div> <div> WALL SWITCH </div> <div> CONTROL WIRE </div> <div> POINT OF CONNECTION </div> <div> DUCT OFFSET </div> <div> EQUIPMENT </div> <div> HVAC EQUIPMENT TAG ELECTRICALLY POWERED </div> <div> FLOOR TAG </div> <div> EQUIPMENT </div> <div> HVAC EQUIPMENT TAG NOT ELECTRICALLY POWERED </div> <div> FLOOR TAG </div> <div> NECK SIZE </div> <div> DIFFUSER/GRILLE TAG </div> <div> TYP. # </div>	<div>1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.</div> <div>2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.</div> <div>3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.</div> <div>4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.</div> <div>5. COORDINATE EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES WITH REFLECTED CEILING PLAN.</div> <div>6. ALL BRANCH DUCTS SHALL MATCH DIFFUSER NECK SIZES UNLESS OTHERWISE NOTED.</div> <div>7. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT.</div> <div>8. KEYNOTES PERTAIN ONLY TO THE DRAWING THEY ARE LOCATED ON.</div> <div>9. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.</div> <div>10. ALL HOT WATER BRANCH LINES ARE 3/4" UNLESS NOTED OTHERWISE.</div> <div>11. MAINTAIN 10' MINIMUM DISTANCE FROM OUTSIDE AIR INTAKE TO ANY EXHAUST OR PLUMBING VENTS.</div> <div>12. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH.</div> <div>13. ALL SUPPLY AND RETURN DUCTWORK IN UNINSULATED ATTIC SPACE SHALL BE WRAPPED WITH 3" INSULATION.</div> <div>14. CLEAN ALL EXISTING DUCTWORK, COILS AND DIFFUSERS DESIGNATED TO REMAIN WITHIN THE PROJECTS SCOPE OF WORK.</div> <div>15. REMOVAL AND REINSTALLATION OF EXISTING CEILING IS REQUIRED. REPLACE ALL DAMAGED CEILING WITH NEW, EQUAL TO EXISTING.</div>						
		<div>MECHANICAL SHEET INDEX</div> <table> <tr> <th>NUMBER</th><th>SHEET NAME</th></tr> <tr> <td>M0.1</td><td>MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS</td></tr> <tr> <td>M1.0</td><td>MECHANICAL FLOOR PLAN</td></tr> </table>	NUMBER	SHEET NAME	M0.1	MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS	M1.0	MECHANICAL FLOOR PLAN
NUMBER	SHEET NAME							
M0.1	MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS							
M1.0	MECHANICAL FLOOR PLAN							

- Architect

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Riverside Park Restrooms

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-Sheet Title

MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS

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Sheet No.

MO.1

KEY NOTES	
M1	ROUTE DUCT UP AND INTO JOIST SPACE.
M2	CONTRACTOR TO ADD BALANCING DAMPERS FOR EACH GRILLE.

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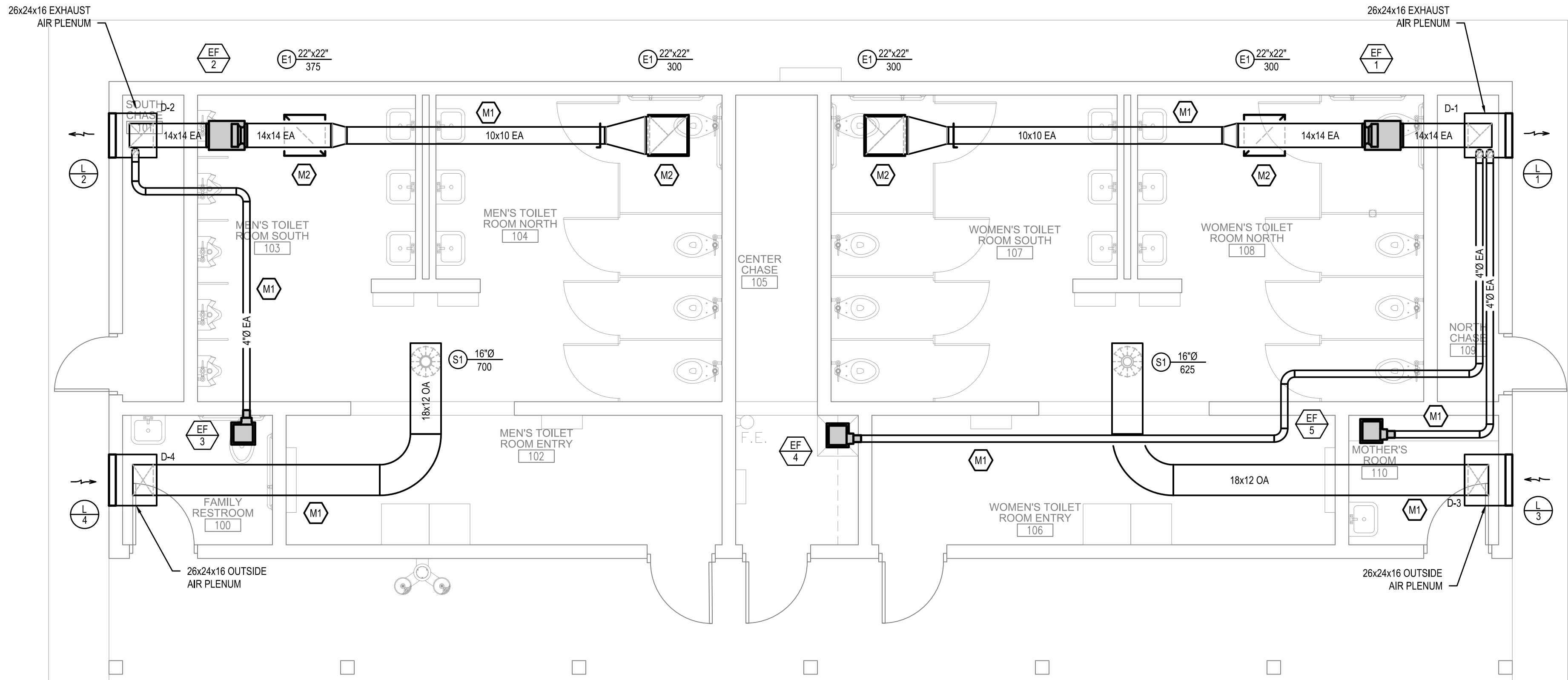
MECHANICAL
FLOOR PLAN

Drawn by	Checked by

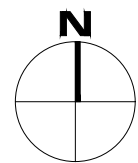
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No.	Date	Description
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M1.0



1 MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



KEY NOTES	
E1	PROPOSED LOCATION OF NEW 240V/120V, 100A SERVICE TRANSOCKET. COORDINATE WITH UTILITY.
E2	INTERCEPT AND REROUTE EXISTING ELECTRICAL CONDUIT AND CABLE AROUND NEW BUILDING.
E3	PROVIDE NEW 42 CIRCUIT, 240/120V PANELBOARD. EXTEND EXISTING CIRCUITS FROM EXISTING PANEL BEING REMOVED THAT REMAIN TO NEW PANEL. VERIFY IN FIELD WHICH CIRCUITS ARE TO REMAIN.

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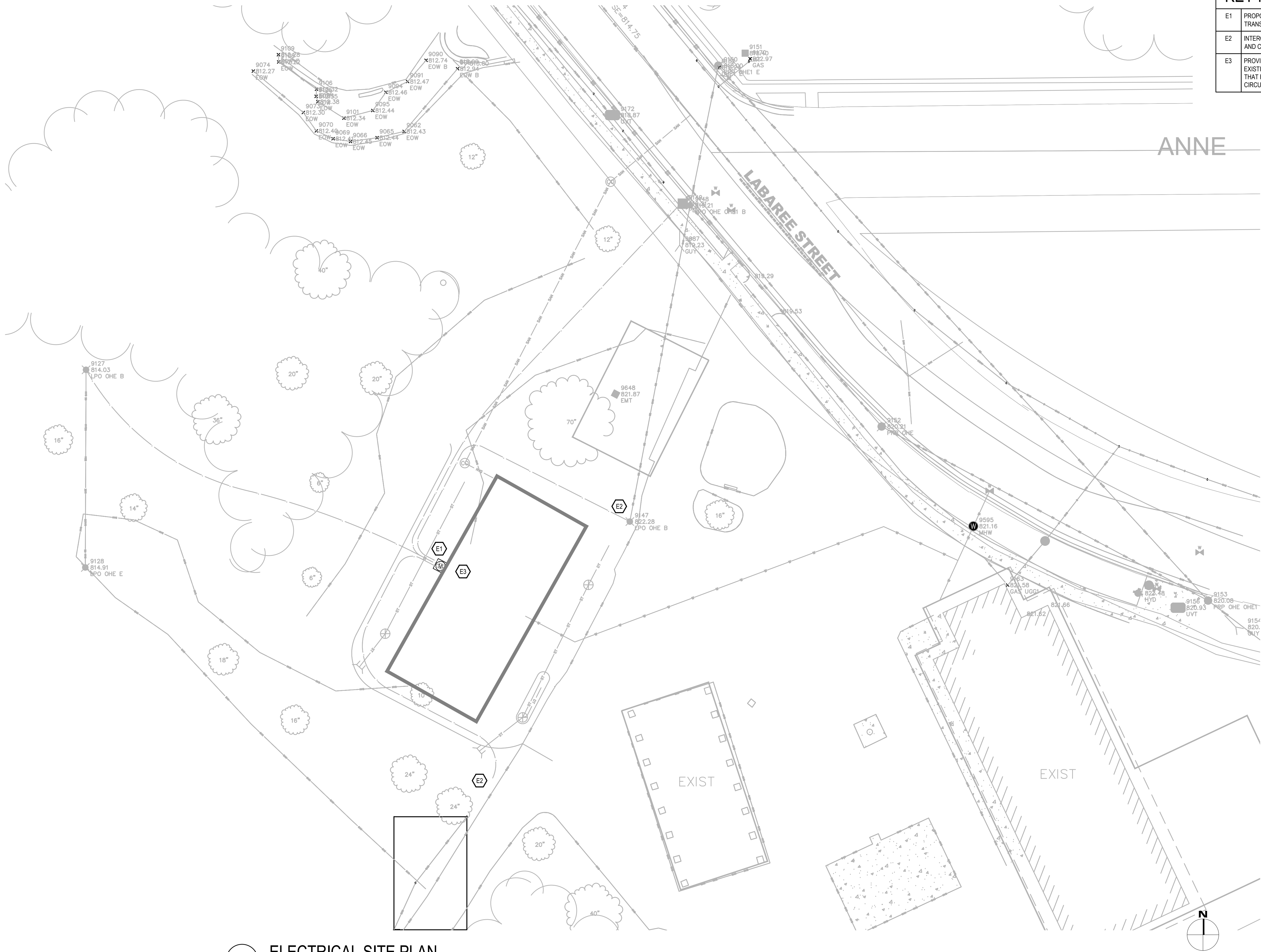
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**ELECTRICAL
SITE PLAN**

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E1.0



1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"



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KEY NOTES

E3	PROVIDE NEW 42 CIRCUIT, 240/120V PANELBOARD. EXTEND EXISTING CIRCUITS FROM EXISTING PANEL BEING REMOVED THAT REMAIN TO NEW PANEL. VERIFY IN FIELD WHICH CIRCUITS ARE TO REMAIN.
E10	PROPOSED LOCATION OF GROUND BAR LOCATED ABOVE PANEL.

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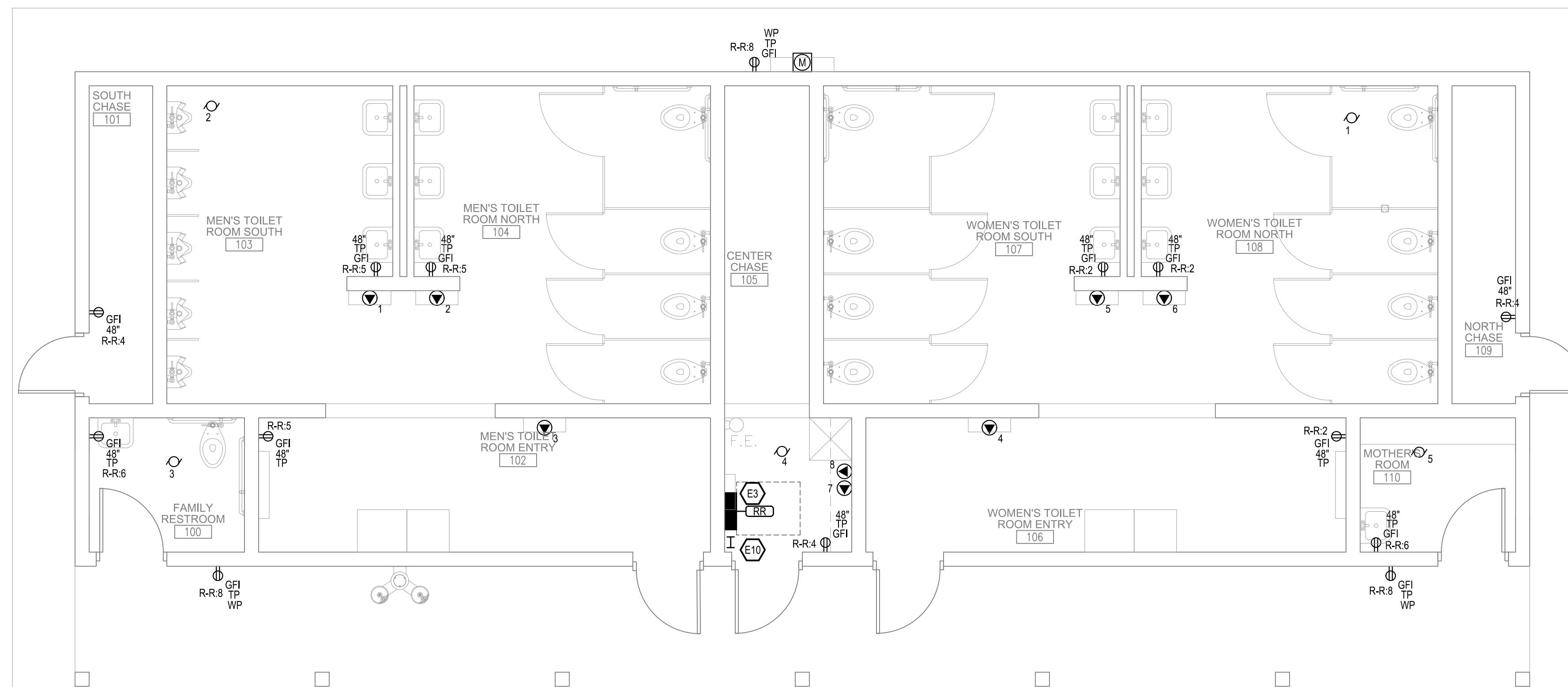
ELECTRICAL POWER & SYSTEMS FLOOR PLAN

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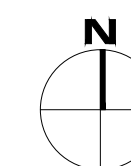
E3.0



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ELECTRICAL POWER & SYSTEMS FLOOR PLAN

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







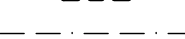


















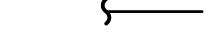












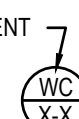




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GENERAL NOTES

	NEW PLUMBING EQUIPMENT		BALL VALVE
	EXISTING PLUMBING COMPONENT		BUTTERFLY VALVE
	DEMOLISHED PLUMBING COMPONENT		CHECK VALVE
	PLUMBING EQUIPMENT SERVICE AREA		CIRCUIT SETTER
	KEY NOTE		2-WAY ELECTRONIC CONTROL VALVE
<u>DCW</u>	NEW DOMESTIC COLD WATER		3-WAY ELECTRONIC CONTROL VALVE
<u>X-DCW</u>	EXISTING DOMESTIC COLD WATER		GATE VALVE
<u>DHW</u>	NEW DOMESTIC HOT WATER		HOSE BIBB/DRAIN VALVE
<u>X-DHW</u>	EXISTING DOMESTIC HOT WATER		OS&Y VALVE
<u>DHWR</u>	NEW DOMESTIC HOT WATER RETURN		PLUG VALVE
<u>X-DHWR</u>	EXISTING DOMESTIC HOT WATER RETURN		PRESSURE & TEMPERATURE RELIEF VALVE
<u>DTW</u>	NEW DOMESTIC TEMPERED WATER		PRESSURE REGULATING VALVE
<u>X-DTW</u>	EXISTING DOMESTIC TEMPERED WATER		TRIPLE DUTY VALVE
<u>FPOCH</u>	NEW FIRE PROTECTION - CHEMICAL PIPE		AIR VENT
<u>FPD</u>	NEW FIRE PROTECTION - DRY PIPE		FLEX PIPE
<u>FPW</u>	NEW FIRE PROTECTION - WET PIPE		FLOOR DRAIN / ROOF DRAIN
<u>X-FP</u>	EXISTING FIRE PROTECTION		P-T PLUG
<u>IRR</u>	NEW IRRIGATION		PIPE BREAK
<u>X-IRR</u>	EXISTING IRRIGATION		PIPE CAPPED END
<u>SS</u>	NEW SANITARY SEWER		PIPE CLEANOUT
<u>X-SS</u>	EXISTING SANITARY SEWER		PIPE ELBOW/TEE DOWN
<u>V</u>	NEW SANITARY VENT		PIPE ELBOW/TEE UP
<u>X-V</u>	EXISTING SANITARY VENT		CONNECT TO EXISTING
<u>STOF</u>	NEW STORM OVERFLOW		PUMP
<u>X-STOF</u>	EXISTING STORM OVERFLOW		REDUCER
<u>SD</u>	NEW STORM SEWER		STRAINER
<u>X-SD</u>	EXISTING STORM SEWER		UNION
<u>DEMOLISHED PIPING (ALL SYSTEMS)</u>			FLOW GAUGE
	DEMOLISHED PIPING (ALL SYSTEMS)		FLOW SENSOR
	PLUMBING EQUIPMENT TAG ELECTRICALLY POWERED		PRESSURE GAUGE
FLOOR TAG EQUIPMENT			PRESSURE SENSOR
	PLUMBING EQUIPMENT TAG NOT ELECTRICALLY POWERED		TEMPERATURE GAUGE
FLOOR TAG			TEMPERATURE SENSOR

1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.
2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL, CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
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NUMBER	SHEET NAME
P0.1	PLUMBING NOTES, LEGEND, AND ABBREVIATIONS
P1.0	PLUMBING UNDERGROUND PLAN
P2.0	PLUMBING FLOOR PLAN
P3.0	PLUMBING ISOMETRICS

ELECTRIC WATER HEATER									
MARK	MANUFACTURER	MODEL	GALLON CAPACITY	DATA			HEIGHT	DIAMETER	REMARKS
				KW	VOLT	PHASE			
EW4-1	A. O. SMITH	DSE-20A-9	20	9	240	1	31.75"	22"	1,2
1	INCLUDE TEMPERATURE CONTROL, PRESSURE RELIEF VALVE, DRAIN VALVE								
2	SINGLE ELEMENT WATER HEATER								
3	PROVIDE WITH EXPANSION TANK EQUAL TO B&G PTA-5								

INFORMATION NEEDED FOR WATER SERVICE SIZING			
1	Demand of building in water supply fixture units:	124.75	WSFU
1a	Demand of building in WSFU converted to Gallons per Minute:	75	GPM
2	Elevation difference from main or external pressure tank to building control valve:	8	FEET
3	Size of water meter (if applicable):	2	
4	Developed length from main or external pressure tank to building control valve	175	FEET
5	Low pressure at main in street or external pressure tank:	75	PSI

CALCULATE WATER SERVICE PRESSURE LOSS			
6	Low pressure at main in street or external pressure tank. (value of #5 above)	75	PSI
7	Determine pressure loss due to friction in <input type="text" value="4"/> inch diameter water service. Water service piping is <input type="text" value="COPPER"/> Pressure loss per 100 ft = <input type="text" value="0.3"/> x <input type="text" value="1.75"/>	0.525	
		Subtotal	74.5 PSI
8	Determine pressure loss or gain due to elevation (multiply the value of #2 above by 0.434):	3.5	PSI
9	Available pressure after the bldg. control valve:	71.0	PSI

$A = [B \cdot (C + D + E + F + G)] / H \times 100$			
B	Available pressure after the bldg. control valve. (from #9 above):		71.0 PSI
C	Pressure loss of water meter (when meter is required)	3	PSI
D	Pressure required at controlling fixture	35	PSI
(Controlling fixture is: WATER CLOSET)			
E	Difference in elevation between building control valve and the controlling fixture in feet	1 x 0.434	0.4
F	Pressure loss due to water treatment devices and backflow preventers which serve the controlling fixture.	0	PSI
G	Pressure loss through tankless water heaters, combination boiler / hot water heaters, heat exchangers which serve the controlling fixture:	0	PSI
H	Developed length from building control valve to controlling fixture in feet	90 x 1.5	135 FT
A	Pressure available for uniform loss (psi/100' of pipe).		24.1 PSI / 100'



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PLUMBING NOTES, LEGEND, AND ABBREVIATIONS

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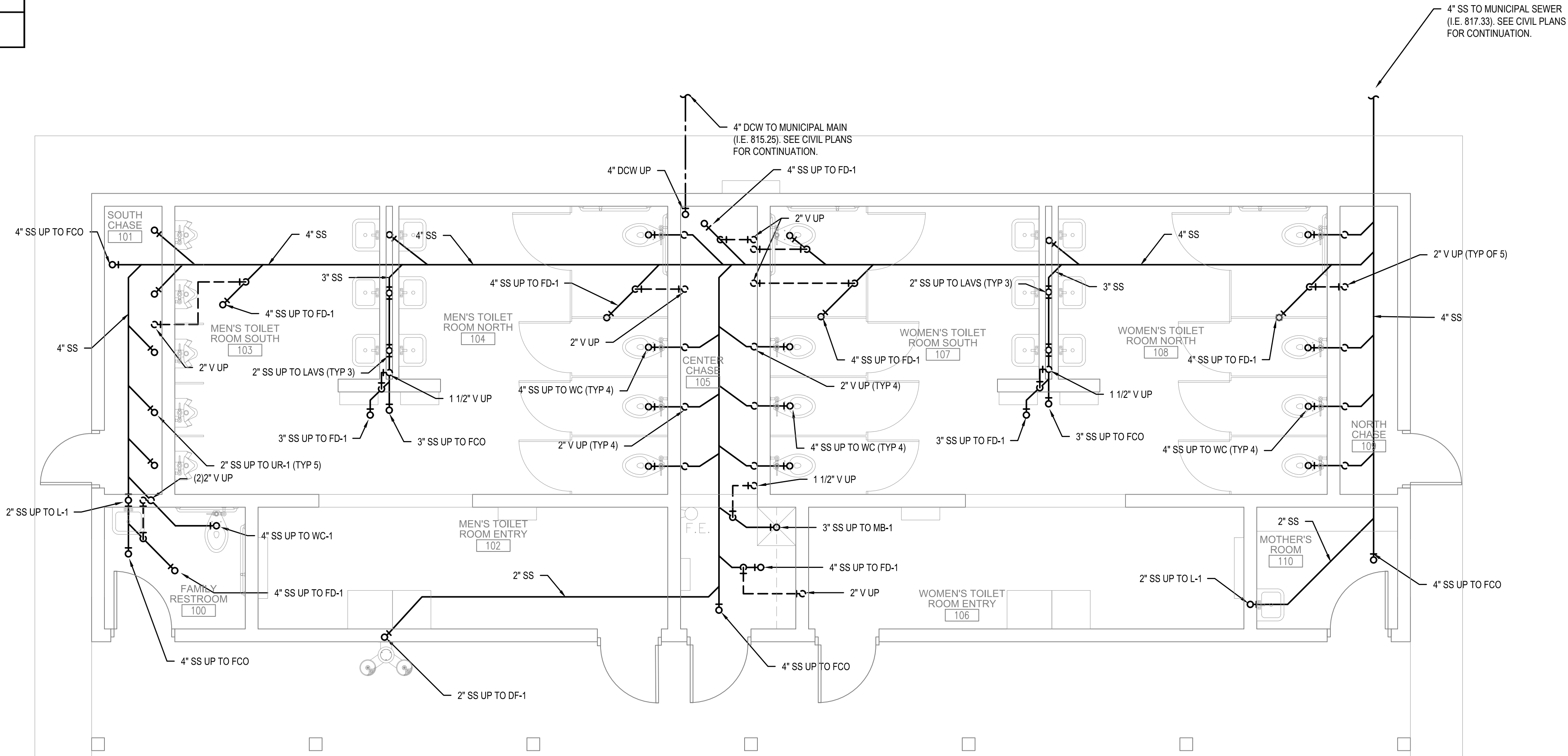
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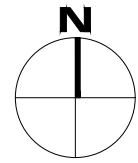
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P0.1

SANITARY PIPING SLOPE	
PIPE SIZE	SLOPE
< 2"	1/4" / 12"
> 2"	1/8" / 12"



1 PLUMBING UNDERGROUND PLAN
SCALE: 1/4" = 1'-0"



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PLUMBING
UNDERGROUND PLAN

Drawn by	Checked by
KJW	CMH

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P1.0

KEY NOTES

1	PIPE 1" DCW, 1" DHW, 3/4" DHWR TO EWH-1. REFER TO DETAIL 1 ON SHEET P0.1
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Sheet Title

PLUMBING FLOOR PLAN

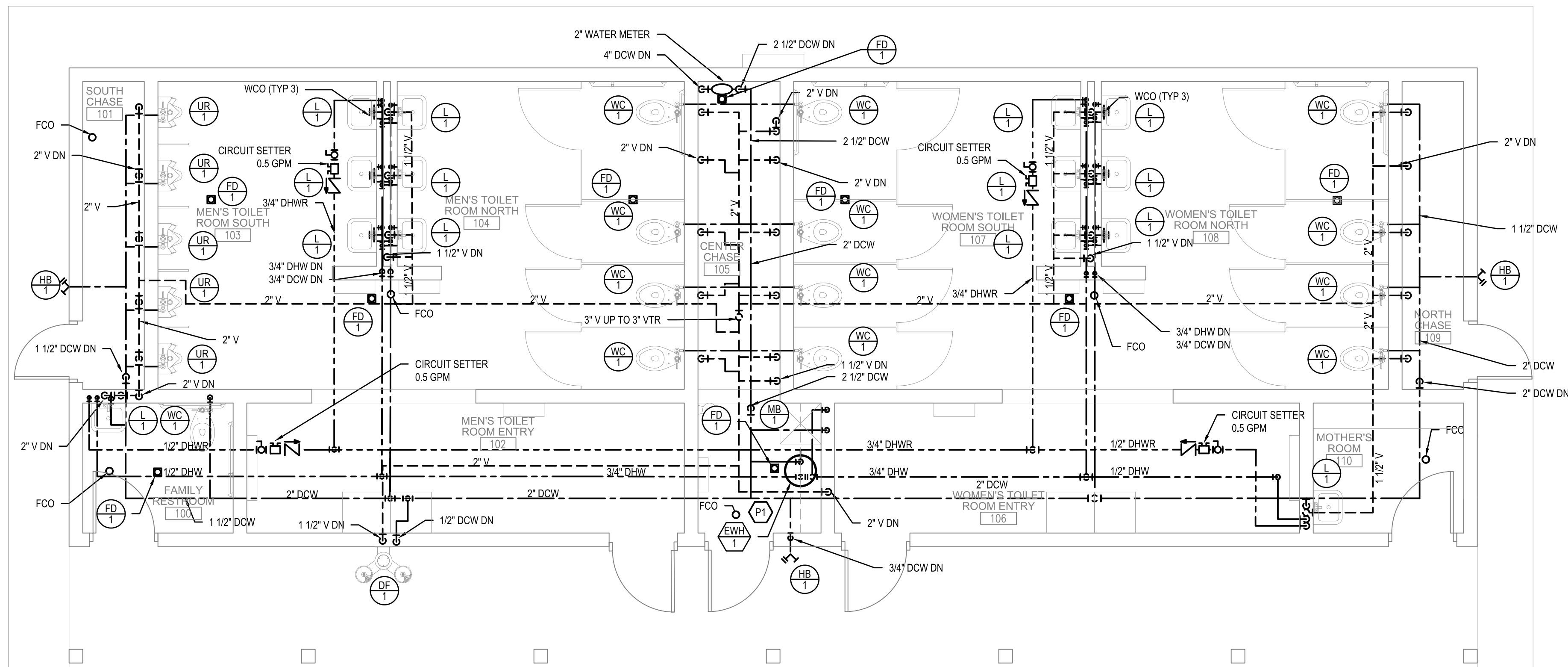
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Sheet No. —

P2.0

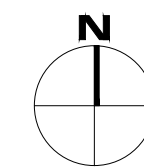
FIXTURE CONNECTIONS				
MARK	DCW	DHW	SS	V
DF-1	1/2"	-	1 1/2"	1 1/2"
HB-1	3/4"	-	-	-
L-1	1/2"	1/2"	2"	1 1/2"
MB-1	1/2"	1/2"	3"	1 1/2"
UR-1	3/4"	-	2"	1 1/2"
WC-1	1 1/2"	-	4"	2"



1

PLUMBING FLOOR PLAN

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



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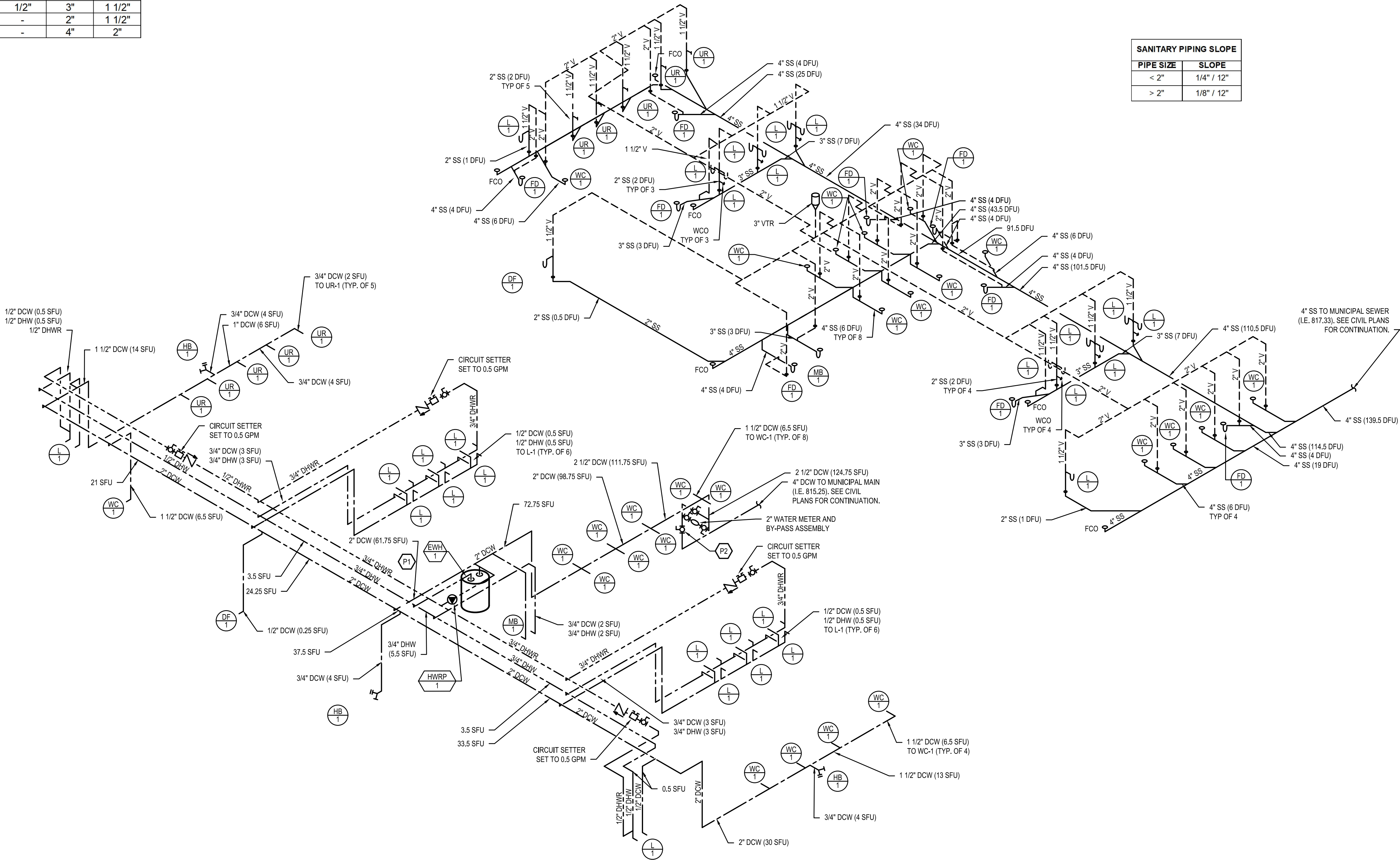
2023-06-30 Bid & Permit Set

FIXTURE CONNECTIONS				
MARK	DCW	DHW	SS	V
DF-1	1/2"	-	1 1/2"	1 1/2"
HB-1	3/4"	-	-	-
L-1	1/2"	1/2"	2"	1 1/2"
MB-1	1/2"	1/2"	3"	1 1/2"
UR-1	3/4"	-	2"	1 1/2"
WC-1	1 1/2"	-	4"	2"

KEY NOTES

1	PIPE 1" DCW (9 SFU), 1" DHW (9 SFU), 3/4" DHWR TO EWH-1. REFER TO DETAIL 1 ON SHEET P0.1
2	PROVIDE BLOWOUT VALVE AT BUILDING WATER METER FOR ADEQUATE WINTERIZATION OF TO FACILITY.

SANITARY PIPING SLOPE	
PIPE SIZE	SLOPE
< 2"	1/4" / 12"
> 2"	1/8" / 12"



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600 Labaree St
Watertown, WI

Sheet Title

PLUMBING ISOMETRICS

Drawn by	Checked by
KJW	CMH

Revisions		
No.	Date	Description
	01.23.2024	Bid & Permit Set

Sheet No.

P3.0

1 PLUMBING ISOMETRICS
N.T.S.



2023-06-30 Bid & Permit Set

1.	BUILDING CODE - INTERNATIONAL BUILDING CODE (IBC) 2015 / ASCE7-10	
2.	DEAD LOADS	
	ROOF	15 PSF
3.	ROOF LIVE LOADS	20 PSF
4.	FLOOR LIVE LOADS	
	PUBLIC AREAS	100 PSF
	STORAGE	125 PSF
5.	SNOW LOADS	
	GROUND SNOW, Pg	30 PSF
	EXPOSURE FACTOR, Ce	1.0
	TEMPERATURE FACTOR, Ct	1.2
	SLOPED ROOF FACTOR, Cs	1.0
	IMPORTANCE FACTOR, Is	1.0
	FLAT ROOF SNOW, Pf	25.2 PSF
	SLOPED ROOF SNOW, Ps	25.2 PSF
	SLIDING & DRIFTING SNOW, IN ADDITION TO FLAT ROOF SNOW, SEE PLANS	
	UNBALANCED SNOW PER ASCE 7	
6.	WIND LOADS	
	ULTIMATE WIND SPEED, V	115 MPH
	RISK CATEGORY	II
	EXPOSURE CATEGORY	C
	INTERNAL PRESSURE COEFFICIENT, Gcpi	±0.18
	COMPONENTS & CLADDING NOT DESIGNED BY THE ENGINEER OF RECORD SHALL BE DESIGNED FOR THE WIND PRESSURES SHOWN ON THE COMPONENTS AND CLADDING DIAGRAM. WIND PRESSURES FOR LARGER TRIBUTARY AREAS MAY BE USED BASED ON DELEGATED DESIGN CALCULATIONS.	
7.	SEISMIC LOADS	
	RISK CATEGORY	II
	IMPORTANCE FACTOR, Ie	1.0
	SITE CLASS	D
	MAPPED SPECTRAL RESPONSE...	
	Ss	0.083 g
	S1	0.045 g
	SPECTRAL RESPONSE COEFFICIENTS	
	SDS	0.089 g
	SD1	0.072 g
	SEISMIC DESIGN CATEGORY	B
	SEISMIC FORCE RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
	RESPONSE MODIFICATION FACTOR, R	2
	RESPONSE COEFFICIENT, Cs	0.044
	DESIGN BASE SHEAR	Cs x (WEIGHT OF BUILDING)
	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
8.	DESIGN VALUES	
	REFERENCE GEOTECHNICAL REPORT	
	PREPARED BY TERRACON CONSULTANTS, INC	DATED 06/23/2002
	SOIL UNIT WEIGHT (γ)	120 PCF
	ALLOWABLE SOIL BEARING PRESSURES	
	VERTICAL (NET)	3,000 PSF
9.	COMPONENT DESIGN	
	WOOD ROOF TRUSSES	
	DEAD	
	TOP CHORD	10.0 PSF
	BOTTOM CHORD	5.0 PSF
	LIVE	
	BOTTOM CHORD	5.0 PSF
	SNOW	
	TOP CHORD	SEE NOTE 5
	DEFLECTION CRITERIA	
	LL	L/360
	TL	L/240

1. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THERE SHOULD NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE. DURING CONSTRUCTION, SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING, BRIDGES, LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK.
2. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
3. GENERAL CONTRACTOR TO DISTRIBUTE ALL SHEETS IN THE SET TO SUBCONTRACTORS.
4. THE ARCHITECT AND/OR ENGINEER OF RECORD SHALL NOT HAVE CONTROL OVER OR BE IN CHARGE OF, AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
5. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
6. THE CONTRACTOR SHALL VERIFY MEASUREMENTS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
7. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
8. IN PLACE PIPES, DUCTS, CHASES, ETC. IN STRUCTURAL BEAM AND COLUMN MEMBERS, DO NOT CUT ANY STRUCTURAL MEMBER FOR PIPES, DUCTS, ETC., UNLESS NOTED OTHERWISE. NOTIFY STRUCTURAL ENGINEER WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, ETC. NOT INDICATED IN THE STRUCTURAL DRAWINGS BUT ARE LOCATED IN THE STRUCTURAL MEMBERS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER FOR INSTALLATION OF SUCH PIPES, DUCTS, CHASES, ETC.
9. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.
10. CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED BY LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. ALL DOCUMENTS NOTED SHALL BE SEALED BY THE LICENSED ENGINEER, IF CRITERIA INDICATED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO THE ARCHITECT. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE CONTRACTOR DESIGNED:
 - A. WOOD TRUSSES

CODES:	
ACI 301	<i>SPECIFICATION FOR STRUCTURAL CONCRETE</i>
ACI MCP	<i>MANUAL OF CONCRETE PRACTICE</i>
ACI 318	<i>BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE</i>
ACI 318.1	<i>BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLAIN CONCRETE</i>

MATERIALS (28 DAY COMPRESSIVE STRENGTH):	
FOOTINGS	f'c=3,000 PSI
INTERIOR SLAB ON GRADE	f'c=4,000 PSI
EXTERIOR SLAB ON GRADE (EXCLUDING SIDEWALKS)	f'c=5,000 PSI
FOUNDATION WALLS / GRADE BEAMS / PIERS	f'c=4,500 PSI
BEAMS / COLUMNS	f'c=4,000 PSI
CONCRETE ON METAL DECK	f'c=4,000 PSI
CONCRETE TOPPING	f'c=4,000 PSI

1. CONCRETE MIX DESIGN (INCLUDING AGGREGATE SIZE, WATER CEMENT RATIO, AIR ENTRAINMENT, ADMIXTURES, SLUMP AND HISTORY OF BREAK TESTS) SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK. CONCRETE SHALL BE NORMAL WEIGHT UNO.
2. MAXIMUM WATER/CEMENT RATIO PERMITTED SHALL BE 0.50 FOR INTERIOR SLABS ON GRADE, 0.45 FOR BELOW GRADE CONCRETE AND 0.40 FOR CONCRETE EXPOSED TO WATER AND DEICING CHEMICALS.
3. CONCRETE WHICH WILL BE EXPOSED TO THE WEATHER (INCLUDING CURBS) SHALL HAVE AIR ENTRAINMENT ADMIXTURE AS REQUIRED TO PROVIDE $6\% \pm 1\%$ AIR ENTRAINMENT.
4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4" FOR SLABS ON GRADE, WALLS, BEAMS & COLUMNS, 1" FOR FOOTINGS AND 3/8" FOR TOPPING SLABS. NORMAL WEIGHT AGGREGATE TO CONFORM TO ASTM C33, LIGHTWEIGHT AGGREGATE TO CONFORM TO ASTM C330.
5. CASTING SHALL BE DONE IN ACCORDANCE TO METHOD 1 OR METHOD 2 AS DESCRIBED IN C1301. THE RESULTS OF THESE ANALYSES SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO ANY WORK.
6. THE CONTRACTOR SHALL MAKE PROVISIONS TO ALLOW AN INDEPENDENT TESTING AGENCY TO CAST 4 TEST CYLINDERS FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED, OR FOR ANY DAY'S OPERATION. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR CASTING AND CURING SPECIMENS IN COMPLIANCE TO ASTM C31 AND CASTING TESTING SPECIMENS IN COMPLIANCE TO ASTM C39.
7. DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS, CONTROL JOINTS, AND PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PREPARATION OF REINFORCING SCHEDULES. MINIMUM MAXIMUM JOINTS SHALL BE 4'-0" AND A MINIMUM OF 4'-0" AWAY FROM INTERSECTIONS AND CORNERS.
8. GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC.
9. THE CONTRACTOR SHALL USE SMOOTH FORMS FOR EXPOSED CONCRETE SURFACES. BOARD FORMS MAY BE USED FOR UNEXPOSED CONCRETE SURFACES. EARTH FORMS ARE FORBIDDEN.
10. PROVIDE A MINIMUM OF 6" OF COMPACTED GRANULAR FILL UNDER ALL SLABS ON GRADE.
11. VAPOR BARRIER TO BE 10 MILS THICKNESS MINIMUM, LAP MINIMUM 6" AND TAPE ALL SEAMS. VERIFY ADDITIONAL REQUIREMENTS WITH ARCHITECT.
12. FLOOR FLATNESS AND LEVELNESS OF SLAB ON GRADE CONCRETE SHALL HAVE THE FOLLOWING TOLERANCES, AS RECOGNIZED BY THE MOST RECENT EDITION OF ASTM C1091. THE CONTRACTOR SHALL PROVIDE SPECIFICATION FOR FURTHER REQUIREMENTS (IF) SPECIFIED OVERALL VALUE (SOV) OF 50, MINIMUM LOCALIZED VALUE (MLV) OF 25 AND FL) SPECIFIED OVERALL VALUE (SOV) OF 33, MINIMUM LOCALIZED VALVE (MLV) OF 17).

1. ALL FOUNDATIONS SHALL BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY AS INDICATED IN THE SOIL DESIGN VALUES.
2. SUBSURFACE CONDITIONS SHALL BE IMPROVED TO MEET CAPACITY WHEN REQUIRED BY THE RECOMMENDED GEOTECHNICAL REPORT.
3. THE ENGINEER MAKES NO REPRESENTATION AS TO THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, TEST BORINGS OR GEOTECHNICAL REPORTS. THIS DATA IS INCLUDED TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION, AND TO REPRESENT CONDITIONS ONLY AT SPECIFIC LOCATIONS AT THE PARTICULAR TIME THE OBSERVATIONS WERE MADE.
4. ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE AT OR BELOW THE FINISHED GRADE ELEVATION.
5. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS IN ALL EXCAVATIONS AS REQUIRED TO PREVENT HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OF SURROUNDING SOIL AND/OR PROPERTY WHICH WILL ENDANGER LIVES OR PROPERTY.
7. THE CONTRACTOR SHALL PROVIDE CONTROL OF SURFACE AND SUBSURFACE WATER PROMPTLY TO ENSURE THAT ALL FOUNDATION WORK IS PERFORMED IN A DRY CONDITION.
8. FOUNDATIONS SHALL NOT BE PLACED ON FROZEN SUBGRADE.
9. THE CONTRACTOR SHALL PROTECT IN-PLACE FOUNDATIONS AND SLABS-ON-GRADE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE.
10. FOUNDATION WALLS SHALL BE BRACED DURING BACKFILLING AND CONSTRUCTION. EXCAVATIONS, BRACES SHALL BE LEFT IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT SYSTEM IS INSTALLED AND APPROVED BY THE ENGINEER.
11. WHERE FOUNDATION WALLS HAVE FILL ON BOTH SIDES, BACKFILLING SHALL BE DONE SIMULTANEOUSLY ON BOTH SIDES OF THE WALL.

CODES:	
ACI 315	<i>DETAIL AND DETAILING OF CONCRETE REINFORCEMENT</i>
ACI 318	<i>BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE</i>
MSP2	<i>CRSI MANUAL OF STANDARD PRACTICE</i>
AWS D.14	<i>STRUCTURAL WELDING CODE - REINFORCING STEEL</i>
WRI	<i>WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE</i>

MATERIALS:		
REINFORCING BARS	ASTM A615 Gr 60	Fy=60 KSI
WELDED WIRE FABRIC	ASTM A185	
MACRO FIBER REINFORCING	ASTM C1116 Type III	

1. THE REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
2. THE REQUIRED CLEARANCE FOR REINFORCEMENT (UNO) SHALL BE 3" FOR CONCRETE PLACED DIRECTLY AGAINST EARTH. 2" (#6 & LARGER) AND 1 1/2" (#5 & SMALLER) FOR CONCRETE EXPOSED TO EARTH OR WEATHER, 1 1/2" (#14 & LARGER) AND 3/4" (#11 & SMALLER) FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.
3. THE CONTRACTOR SHALL REFER TO TYPICAL DETAILS SHOWN ON THE CONTRACT DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS.
4. REINFORCEMENT IS REQUIRED IN SECTIONS. REINFORCEMENT IS CONSIDERED TYPICAL WHERE EVER THE SECTION APPLIES.
5. WELDED WIRE FABRIC SHALL HAVE A MINIMUM OF 6" LAP AND BE TIED TOGETHER.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF COMPLETION OF REINFORCEMENT INSTALLATION AND ALLOW AT LEAST 24 HOURS BEFORE SCHEDULED CONCRETE PLACEMENT FOR THE ARCHITECT TO INSPECT REINFORCEMENT.

CODES:	
TRUSS PLATE INSTITUTE	DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES

1. THE WOOD TRUSS FABRICATOR SHALL SUBMIT CALCULATIONS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL DESIGNER LICENSED IN THE STATE OF CALIFORNIA.
2. THE WOOD TRUSSES SHALL BE ERECTED AND BRACED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN "BRACING OF WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS".
3. ALL WOOD TRUSSES SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS, COLUMNS, OR JOIST HANGERS.
4. DESIGN LOADS FOR THE TRUSSES SHALL BE NOTED ON DRAWINGS.
5. DESIGN TRUSS MEMBERS FOR CONCENTRATED LOADS OF SPRINKLER PIPING AND OTHER MECHANICAL LOADS.

CODES:	
ACI 530.1/ASCE 6/TMS 602	<i>SPECIFICATION FOR MASONRY STRUCTURES</i>
ACI 530/ASCE 5/TMS 402	<i>BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES</i>

MATERIALS:		
CONCRETE MASONRY BLOCK	ASTM C-90	2,000 PSI
TYPE M/S MORTAR	ASTM C270	
GROUT (28 DAY STRENGTH)	ASTM C476	2,000 PSI
REINFORCING BARS	ASTM A615 Gr 60	Fy=60 KSI

1. THE REQUIRED MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE COMBINATION OF CONCRETE BLOCK, GROUT AND MORTAR ON THE NET AREA OF THE CONSTRUCTION (Fm) SHALL BE A MINIMUM OF 2,000 PSI.
2. ALL CONCRETE BLOCK MASONRY UNITS SHALL BE NORMAL WEIGHT.
3. ALL CONCRETE BLOCK MASONRY UNITS SHALL BE LAID IN RUNNING BOND, UNO.
4. MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING SHALL BE GROUTED SOLID. GROUTING OF MORTAR IS UNACCEPTABLE.
5. ALL BOND BEAMS TO BE GROUTED SOLID.
6. THE BASE OF EACH CELL IN WHICH REINFORCING BAR IS PLACED MUST HAVE A CLEAN OUT HOLE.
7. VERTICAL REINFORCING BARS SHALL BE LAPPED PER SCHEDULE. MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES.
8. PROVIDE CONTINUOUS REINFORCED BOND-BEAMS IN ALL REINFORCED MASONRY WALLS AT THE TOP, AND AS REQUIRED IN THE CONTRACT DRAWINGS. BOND-BEAMS AT THE TOP OF THE WALL SHALL BE CONTINUOUS AT MASONRY CONTROL JOINTS. ALL OTHER BOND-BEAMS SHALL BE CONTINUOUS AT MASONRY CONTROL JOINTS. BOND-BEAM REINFORCING SHALL EXTEND INTO AND BE CONTINUOUS WITH ALL INTERSECTING BOND-BEAMS.
9. REINFORCED MASONRY WALLS SHALL HAVE #9 GAUGE (LADDER TYPE) HORIZONTAL REINFORCING AT SPACING AS NOTED ON CONTRACT DRAWINGS, BUT AT A MAXIMUM OF 16" O.C. VERTICALLY.
10. FILL CORES OF MASONRY UNDER ALL BEARING PLATES. THE MINIMUM WIDTH SHALL BE 3 TIMES THE BEARING PLATE LENGTH FOR THREE COURSES BELOW BEARING, UNO.
11. EXPOSED WALLS DURING CONSTRUCTION AS REQUIRED TO RESIST WIND AND OTHER TEMPORARY LOADS UNTIL FINAL STRUCTURAL MEMBERS ARE INSTALLED.
12. PROVIDE BAR POSITIONERS ON ALL REINFORCING TO HOLD AND MAINTAIN PROPER REBAR LOCATIONS AND COVER DURING GROUTING.

CODES:	
NFPA	NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION
NFPA	DESIGN VALUES FOR WOOD CONSTRUCTION
AITC	TIMBER CONSTRUCTION MANUAL, PART II, DESIGN SPECIFICATIONS
APA	US PRODUCT STANDARD PS 1-83 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD
AFPA	AMERICAN FOREST AND PAPER ASSOCIATION - MANUAL FOR ENGINEERED WOOD CONSTRUCTION

MATERIALS:		SPECIES/GRADE
SAWN LUMBER	ASTM D1990-96A OR ASTM D245	
WALL STUDS COLUMNS JOISTS & BEAMS		SPF STUD SPF No.1/No.2 SPF No.1/No.2
I-JOISTS	ASTM D5055	
LSL WALL STUDS HEADERS		1.3E 1.3E
LVL WALL STUDS HEADERS	ASTM D5055	2600 Fb, 2.0E
PSL BEAMS COLUMNS	ASTM D5055	2.0E 1.9E
GLUE-LAMINATED TIMBER	AITC A190.1 & ASTM D3737	DF BALANCED 24F +1.8E
WOOD PANELS (COMPOSITE, ORIENTED STRANDBOARD & PLYWOOD)	DOC PS 1 OR PS 2	APA RATED
PRESERVATIVE TREATED WOOD	AWPA STD U1 & M4	S. PINE No.2
FIRE-RETARDANT TREATED LUMBER	IBC 2303.2 ASTM E84 CLASS A	S. PINE No.2
TONGUE & GROOVE DECKING	AMERICAN FOREST AND PAPER ASSOCIATION WOOD CONSTRUCTION DATA 2	Fb=1000 PSI E=1.8 KSI

1. ALL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15% PRIOR TO INSTALLATION. MOISTURE CONTENT SHALL BE DETERMINED PER ASTM D4442.
2. ALL WOOD SHALL BE PROTECTED FROM MOISTURE BEFORE INSTALLATION.
3. ALL WOOD STORED AT THE BUILDING SITE SHALL BE ELEVATED 6" ABOVE THE GROUND AND COVERED WITH PLASTIC TARPAPPLINGS.
4. ALL STRUCTURAL WOOD SHALL MEET OR EXCEED ALLOWABLE UNIT STRESSES AND/OR GRADE AS REQUIRED BY THE DRAWINGS.
5. JOISTS SHALL BE BRIDGED WITH 1" X 3" CROSS BRIDGING, OR EQUAL, AT INTERVALS NOT EXCEEDING 8'-0" O.C.
6. ALL WOOD PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, MASONRY OR CONCRETE SHALL HAVE A PRESERVATIVE TREATMENT EQUAL TO 0.4 P.C.F RETENTION OF PRESSURE INJECTED PRESERVATIVE.
7. ALL JOISTS AND RAFTERS SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS OR JOIST HANGERS.
8. WOOD MEMBERS SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE OR MASONRY WITHOUT BEING MADE OF NATURALLY DURABLE OR PRESERVATIVE TREATED WOOD UNLESS 1/2" AIR SPACE IS PROVIDED AROUND (TOP, SIDES, END) OF WOOD RAFTERS/JOISTS/GIRDERS: IMPERVIOUS MOISTURE BARRIER OR 1" ELEVATED BASE IS PROVIDED AT WOOD COLUMNS; IMPERVIOUS MOISTURE BARRIER IS PROVIDED AT SILL PLATES.
9. WOOD STRUCTURAL PANELS SHALL BE LAID WITH THE LONG PANEL DIRECTION PERPENDICULAR TO THE SUPPORTING MEMBERS, WITH ENDS STAGGERED.
10. WOOD STRUCTURAL PANELS SHALL BEAR THE APPROPRIATE GRADING STAMP BY THE REVIEWING AGENCY.
11. ALL NAILS GIVEN ON THE PLANS SHALL BE CONSIDERED "COMMON NAILS" UNLESS NOTED ON THE PLANS.
12. ALL FASTENERS FOR WOOD CONSTRUCTION CONNECTORS (JOIST HANGERS, ETC.) SHALL BE PROVIDED BY OR APPROVED BY THE CONNECTOR'S MANUFACTURER.
13. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE TREATED WOOD SHALL BE STAINLESS STEEL.
14. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH FIRE RETARDANT TREATED WOOD USED IN INTERIOR APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS FASTENERS AND WOOD CONSTRUCTION CONNECTORS SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL.
15. ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307 OR HOT DIP GALV. WASHERS SHALL BE PROVIDED BETWEEN THE HEAD OR NUT AND THE WOOD SURFACE.
16. NO WOOD MEMBER SHALL BE CUT, NOTCHED, OR DRILLED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE EOR.
17. THE LAMINATED TIMBER FABRICATOR SHALL SUBMIT DRAWINGS AND CALCULATIONS, INCLUDING CONNECTIONS, TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

CODES:	
AISC	SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STEEL FOR BUILDINGS
AISC	CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
AWS D1.1	STRUCTURAL WELDING CODE - STEEL
AISC	STRUCTURAL STEEL DETAILING MANUAL

MATERIALS:		
HOT ROLLED W & WT SHAPES	ASTM A992	Fy=50 KSI
ANGLES, CHANNELS & PLATES	ASTM A36	Fy=36 KSI
S + M SHAPES	ASTM A36	Fy=36 KSI
HP SHAPES	ASTM A572 Gr 50	Fy=50 KSI
STEEL PIPE	ASTM A53 Gr B	Fy=35 KSI
RECTANGULAR HSS	ASTM A500 Gr B	Fy=46 KSI
ROUND HSS	ASTM A500 Gr B	Fy=42 KSI
HIGH STRENGTH BOLTS	ASTM A325	
HEAVY HEX NUTS	ASTM A563	
HARDENED STEEL WASHERS	ASTM A436	
ANCHOR RODS	ASTM F1554 Gr 36	Fy=36 KSI
THREADED RODS	ASTM A36	Fy=36 KSI
HEADED STUD ANCHORS	ASTM A108	

1. PROVIDE 2 MIL THICKNESS RED OR GRAY OXIDE PRIMER ON ALL STEEL SURFACES (UNO).
2. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND FASTENERS HOT DIPPED GALVANIZED PER ASTM A153.
3. ANCHOR RODS SHALL BE PRESET WITH TEMPLATES.
4. LEVELING PLATES AND BEARING PLATES SHALL BE SET IN A FULL BED OF NON-SHRINK GROUT.
5. CONNECTIONS MAY BE BOLTED OR WELDED AT THE FABRICATORS OPTION. BOLTED CONNECTIONS SHALL BE A MINIMUM BOLT DIAMETER OF 3/4" (UNO). HIGH STRENGTH BOLTS IN SINGLE OR DOUBLE SHEAR (UNO) AND SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER AISC REQUIREMENTS FOR UNRESTRAINED MEMBERS.
6. THE MINIMUM FILLET WELD SIZE SHALL NOT BE LESS THAN 3/16" (UNO).
7. ALL WELDS SHALL USE WELD METAL CONFORMING TO E70XX AND CONFORMING TO AWS WELDING PROCEDURES AND STANDARDS.
8. ALL WELDS SHALL BE MADE BY AWS CERTIFIED WELDERS CERTIFIED IN THE POSITION IN WHICH THE WELD IS TO BE MADE.
9. THE ERECTION OF ANY STRUCTURAL STEEL MEMBERS SHALL NOT COMMENCE UNTIL ALL SUPPORTING CONCRETE/MASONRY ELEMENTS HAVE ATTAINED AT LEAST 75% OF THEIR INTENDED MINIMUM COMPRESSIVE STRENGTH.
10. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS AS REQUIRED FOR THE SAFE ERECTION OF ALL STEEL. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND FLOOR SLAB CONCRETE HAS ATTAINED 75% OF ITS REQUIRED STRENGTH.
11. STRUCTURAL STEEL SHALL BE TRUE AND PLUMB BEFORE FINAL BOLTING OR WELDING OF CONNECTIONS.
12. THE CONTRACTOR SHALL NOT MODIFY OR CUT ANY STRUCTURAL STEEL WITHOUT WRITTEN APPROVAL FROM THE OWNER.
13. THE CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS, AND SIMILAR DEFECTS IN PAINT OF STRUCTURAL STEEL.
14. PROVIDE 1/4" CLOSURE/END PLATES FOR ALL OPEN ENDS OF HSS & PIPE MEMBERS.

1. THE DIAMETER, EMBEDMENT LENGTH AND TYPE OF ADHESIVE ANCHORS, EXPANSION ANCHORS, AND SCREW ANCHORS SHALL BE AS SPECIFIED ON THE DRAWINGS.
2. THE SUBSTITUTION OF OTHER MANUFACTURER'S SIMILAR PRODUCTS IS ALLOWED, PROVIDED THAT THE SIZE IS EQUAL TO, AND CAPACITY IN SHEAR UPLIFT ARE EQUAL TO OR GREATER THAN WHAT IS SPECIFIED ON THE DRAWINGS. THE COST OF REDESIGN OF SUCH SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR.
3. INSTALLATION OF ANCHORS SHALL STRICTLY FOLLOW ALL MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS. ALL DRILL HOLE PREPARATION SHALL BE FOLLOWED.
4. NO LOAD SHALL BE APPLIED TO ADHESIVE ANCHORS PRIOR TO THE FULL CURE TIME AS SPECIFIED BY THE MANUFACTURER.
5. TESTING OF 10% OF ALL INSTALLED ANCHORS IS REQUIRED. TESTED ANCHORS SHALL MEET THE MANUFACTURERS PROOF LOAD REQUIREMENTS AND/OR INSTALLATION TORQUE REQUIREMENTS. MALFUNCTIONING FASTENERS SHALL BE REPLACED.

STRUCTURAL SHEET INDEX	
Sheet Number	Sheet Name
S0.1	GENERAL NOTES
S0.2	SCHEDULES
S1.0	FOUNDATION PLAN
S1.1	ROOF FRAMING PLAN
S1.2	HIGH ROOF FRAMING PLAN
S3.0	CONCRETE SECTIONS & DETAILS
S3.1	CONCRETE SECTIONS & DETAILS
S4.0	MASONRY SECTIONS & DETAILS
S6.0	WOOD SECTIONS & DETAILS
S6.1	WOOD SECTION & DETAILS



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p: 833-380-6180

Project Info. 22005

RIVERSIDE PARK
RESTROOMS

New Construction

600 Labaree St
Watertown, WI

Sheet Title

SCHEDULES

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S0.2

SHEARWALL SCHEDULE						
MARK	BLOCKED/ UNBLOCKED	EXTERIOR SHEATHING		INTERIOR SHEATHING		SILL PLATE ANCHORS
		TYPE	FASTENING	TYPE	FASTENING	
SW1	BLOCKED	APA RATED 7/16"	8d (1 3/8" PEN MIN) @ 6/12	SEE ARCH	-	SIMPSON 1/4" Ø SDS HD SCREW @ 12" OC (3" PEN MIN) @ WOOD
SW2	BLOCKED	APA RATED 7/16"	8d (1 3/8" PEN MIN) @ 4/12	SEE ARCH	-	SIMPSON 1/4" Ø SDS HD SCREW @ 6" OC (3" PEN MIN) @ WOOD
NOTES: 1. SEE TYPICAL SHEARWALL DETAIL. 2. LETTER AFTER SHEARWALL DESIGNATION DENOTES ANCHORAGE TYPE, SEE SHEARWALL ANCHORAGE SCHEDULE.						

SHEARWALL ANCHORAGE				
LABEL	STRAP	HOLDOWN	THREADED ROD Ø	ENDPOST
A	-	DTT2Z	1/2"	(1) 2x
NOTE: 1. SEE TYPICAL HOLDOWN ANCHORAGE DETAIL FOR THREADED ROD EMBEDMENT LENGTH AND ANCHORAGE REINFORCING. 2. HOLDOWNS ONLY REQUIRED AT CONCRETE, USE STRAPS ELSEWHERE. SEE TYPICAL SHEARWALL DETAIL. 3. AT STRAPS, PROVIDE 1/2 OF SPECIFIED NAILS IN EACH END LENGTH. BETWEEN END LENGTHS, PROVIDE NAILS @ 6" ON CENTER. 4. IF SHEARWALL ENDS ARE UNALIGNED, CONTINUE END POST TO FOUNDATION AND PROVIDE HOLDOWN. IF SHEARWALL IS SUPPORTED BY BEAM, PROVIDE STRAPS AND WRAP AROUND BEAM.				

CONCRETE SLAB ON GRADE SCHEDULE						
MARK	SYSTEM DEPTH	CONCRETE SLAB			COMPACTED GRAVEL THICKNESS	REMARKS
		TYPE	THICKNESS	SLAB REINFORCING		
SOG 5	11"	NWC	5"	FORTA FERRO FIBER REINFORCING (3 LB/CY)	6"	SEE TYPICAL SLAB JOINT DETAIL

WOOD DECK/SHEATHING SCHEDULE						
MARK	SYSTEM DEPTH	STRUCTURAL LAYER		TOPPING/OVERLAYMENT		REMARKS
		TYPE	THICKNESS	TYPE	THICKNESS	
WD062	5/8"	PLYWOOD/OSB WOOD SHEATHING	5/8"	-		PROVIDE SIMPSON PSC CLIPS AT PANEL EDGES

PIER SCHEDULE						
MARK	DIAMETER	DIMENSIONS		REINFORCING		REMARKS
		WIDTH	DEPTH	VERTICAL	TIES	
P1		1'-0"	1'-0"	(4)-#6	#3 @1'-0" OC	

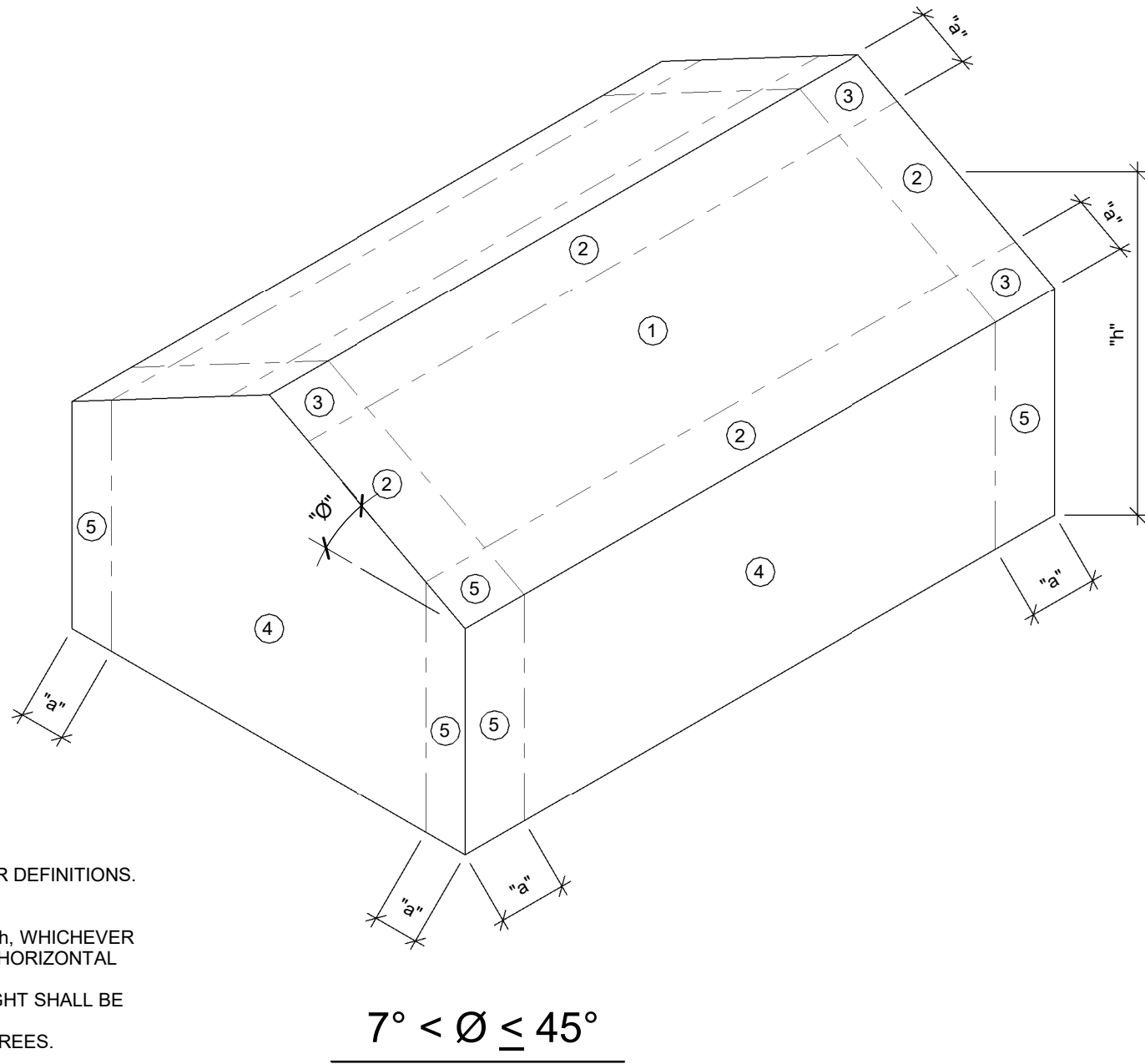
LINTEL SCHEDULE					
MARK	LINTEL			JAMB REINF	LINTEL TYPE
	TYPE			REMARKS	
L1	8" BOND BEAM W/ (2)-#5 CONT			(1) #5	A
L2	16" BOND BEAM W/ (2)-#5 CON			(1) #5	A

WOOD COLUMN SCHEDULE					
MARK	SIZE	GRADE	TOP CONNECTION	BOTTOM CONNECTION	REMARKS
WC1	6X6 TIMBER	SPF No.1/No.2	CCQ	ABU	GALVANIZE CONNECTIONS WHEN EXPOSED TO WEATHER

WOOD HEADER SCHEDULE					
MARK	SIZE	GRADE	JAMB STUDS	KING STUDS	REMARKS
H1	(3) 2x8	SPF	(1) 2x	(1) 2x	

ULTIMATE ROOF SURFACE PRESSURE (PSF)				
AREA (SF)	10.0	50.0	100.0	
NEGATIVE ZONE 1	-27.0	-25.3	-24.5	
NEGATIVE ZONE 2	-47.0	-38.3	-34.5	
NEGATIVE ZONE 3	-69.5	-59.0	-54.5	
POSITIVE ZONE 1	17.0	16.0	16.0	
POSITIVE ZONES 2 & 3	-	-	-	
OVERHANG ZONE 1 & 2	-55.0	-55.0	-55.0	
OVERHANG ZONE 3	-92.5	-71.5	-62.5	
ULTIMATE PARAPET SURFACE PRESSURE (PSF)				
AREA (SF)	10.0	50.0	100.0	
CASE A: INTERIOR ZONE	0.0	0.0	0.0	
CASE A: CORNER ZONE	0.0	0.0	0.0	
CASE B: INTERIOR ZONE	0.0	0.0	0.0	
CASE B: CORNER ZONE	0.0	0.0	0.0	
ULTIMATE WALL SURFACE PRESSURE (PSF)				
AREA (SF)	10.0	100.0	200.0	
NEGATIVE ZONE 4	-32.0	-27.6	-26.3	
NEGATIVE ZONE 5	-39.5	-30.7	-28.0	
POSITIVE ZONE 4 & 5	29.5	25.1	23.8	

NOTE:
1. REFER TO "WIND LOADS AT COMPONENTS AND CLADDING" FOR DEFINITIONS.
(1) THROUGH (5) INDICATES WIND LOAD ZONES.
2. NOTATION:
"a" 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER
IS SMALLER, BUT NOT LESS THAN EITHER 4" OF LEAST HORIZONTAL
DIMENSION OR 3 FT.
"h" MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE
USED FOR $\theta \leq 10^\circ$
"0" ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.





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RIVERSIDE PARK
RESTROOMS

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Sheet Title

FOUNDATION PLAN

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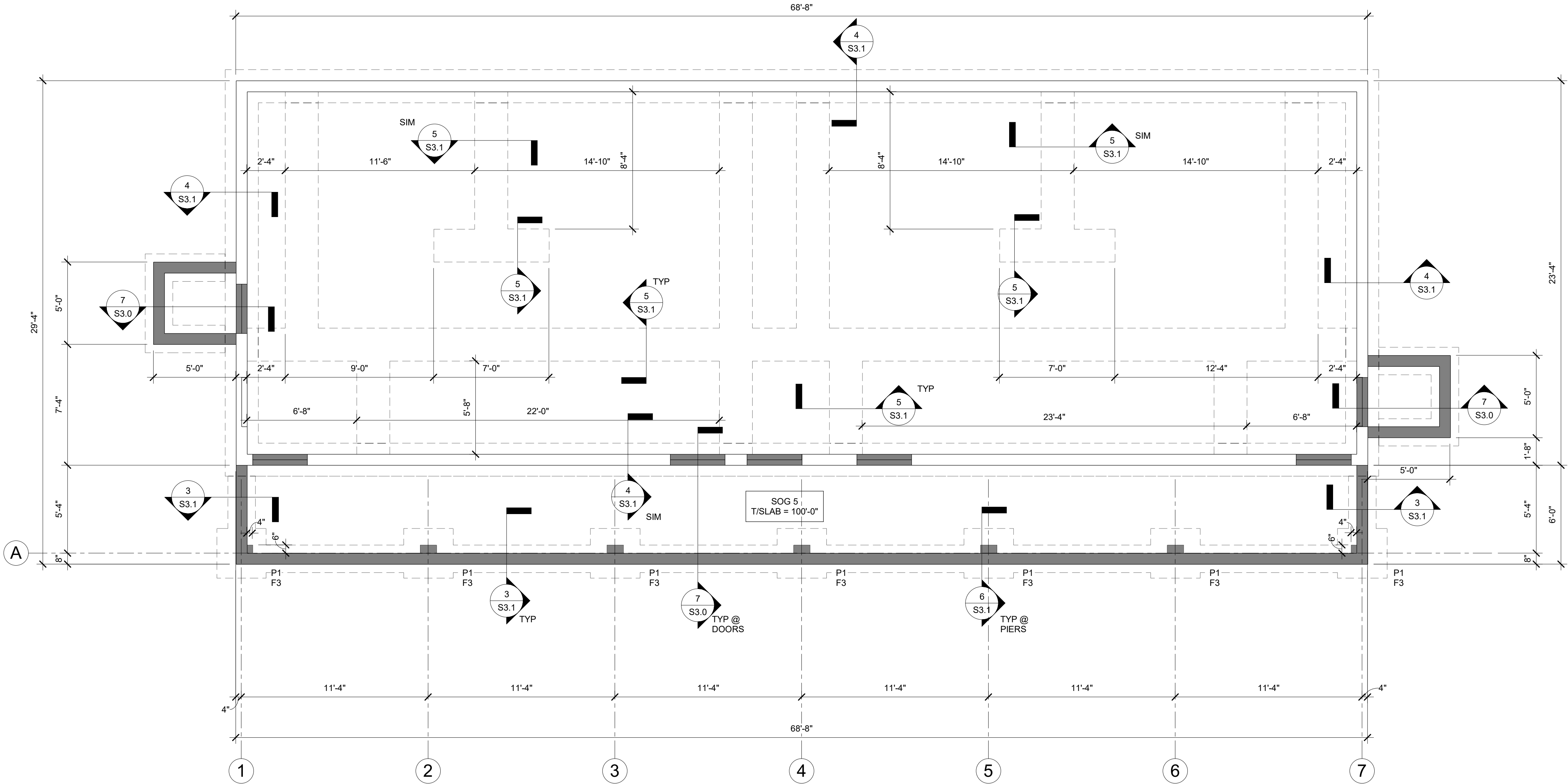
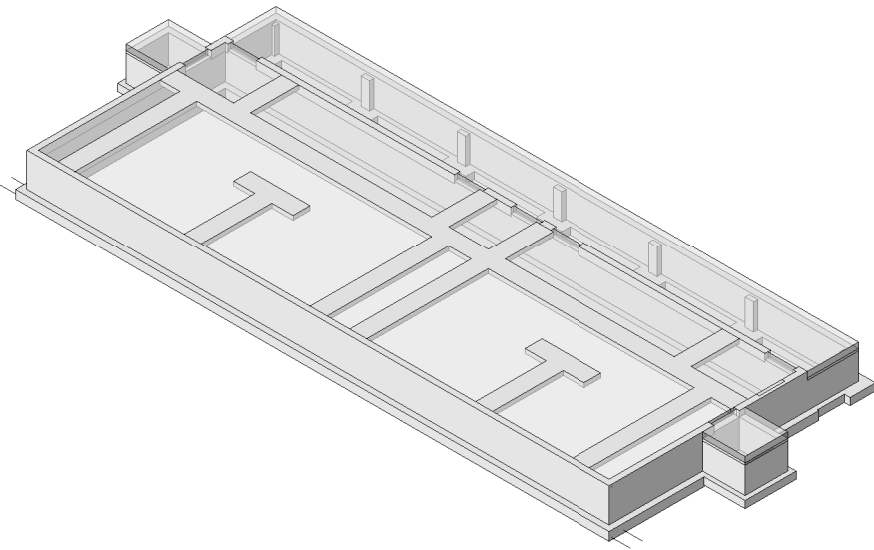
Revisions

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	01.23.2024	Bid & Permit Set

Sheet No.

S1.0

- FOUNDATION PLAN NOTES:**
- SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2 FOR SCHEDULES.
 - SEE SHEET S3.0.FOR FOUNDATION WALL CONSTRUCTION JOINTS AND TYPICAL REINFORCING DETAILS.
 - TOP OF EXTERIOR FOOTING ELEVATION = 96'-0" UNO.
 - TOP OF INTERIOR FOOTING ELEVATION = 100'-0" UNO.
 - TOP OF PIER ELEVATION = 99'-4" UNO.
 - TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNO.
 - SEE MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS REQUIRED FOR MECHANICAL EQUIPMENT.
 - SEE ARCHITECTURAL DRAWINGS FOR DOOR OPENING SIZES AND LOCATIONS IN WALLS.



1
S1.0

FOUNDATION PLAN

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

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C4E Project #: 21325

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RIVERSIDE PARK RESTROOMS

600 Labaree St
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ROOF FRAMING PLAN

[illegible]

S1.1

2024-01-23 Bid & Permit Set

1. SEE SHEET \$0.1 FOR GENERAL NOTES AND \$0.2 FOR SCHEDULES.
2. SEE SHEET \$4.0 FOR TYPICAL MASONRY SECTIONS AND DETAILS, INCLUDING TYPICAL WALL REINFORCING.
3. SEE SHEET \$6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
4. SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
5. COORDINATE FINAL SIZES AND HATCHING OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. ALL HEADERS AND BEAMS TO BE DROPPED UNO.
7. ALL WOOD STUD BEARING WALLS TO BE 2x6 SPF No.1/no.2 @ 16" OC.



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





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RIVERSIDE PARK
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Sheet Title

HIGH ROOF FRAMING
PLAN

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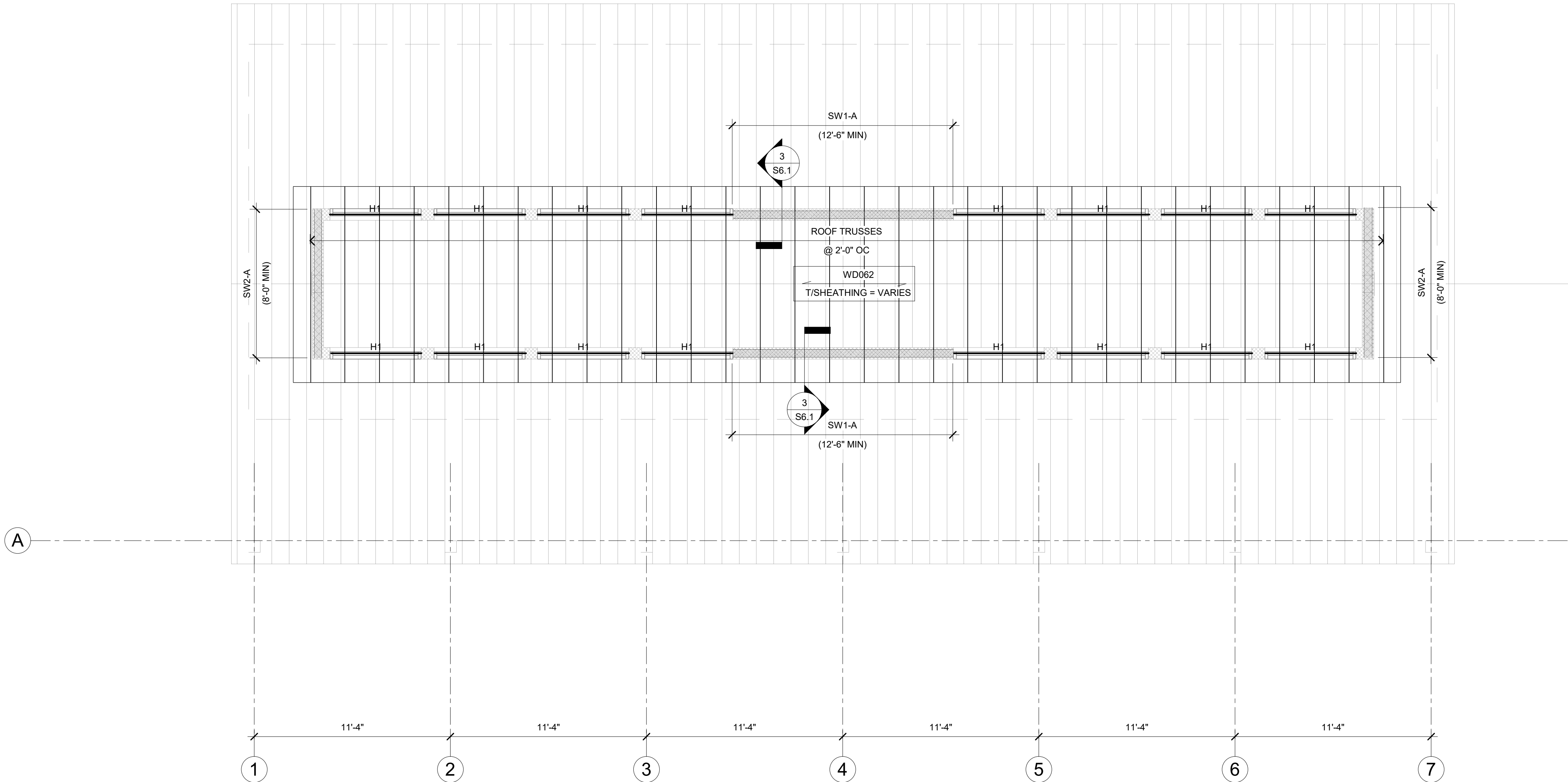
Revisions		
No.	Date	Description
	01.23.2024	Bid & Permit Set

Sheet No.

S1.2

ROOF PLAN NOTES:

1. SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2FOR SCHEDULES.
2. SEE SHEET S4.0 FOR TYPICAL MASONRY SECTIONS AND DETAILS, INCLUDING TYPICAL WALL REINFORCING.
3. SEE SHEET S6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
4. SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
5. COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. PROVIDE L1 LINTEL FOR ALL LOUVER OPENINGS. COORDINATE WITH ARCH & MEP FOR LOCATIONS AND SIZES.



1
S1.2

HIGH ROOF FRAMING PLAN - ALTERNATE BID

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



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RIVERSIDE PARK RESTROOMS

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CONCRETE SECTIONS & DETAILS

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S3.0

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Project Info. **22005**
**RIVERSIDE PARK
RESTROOMS**

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**CONCRETE SECTIONS
& DETAILS**

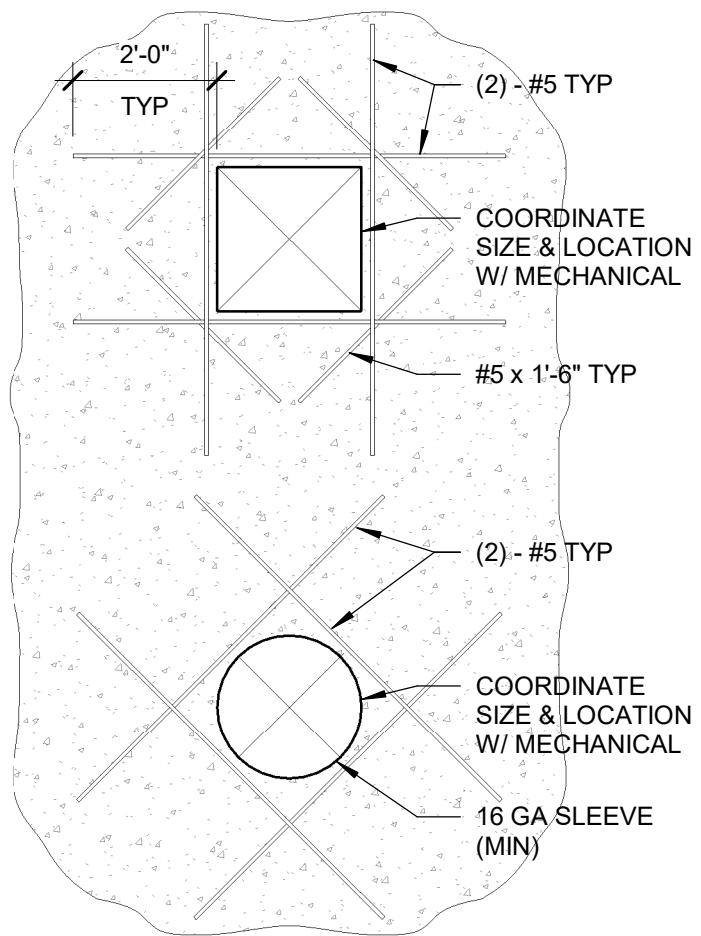
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S3.1

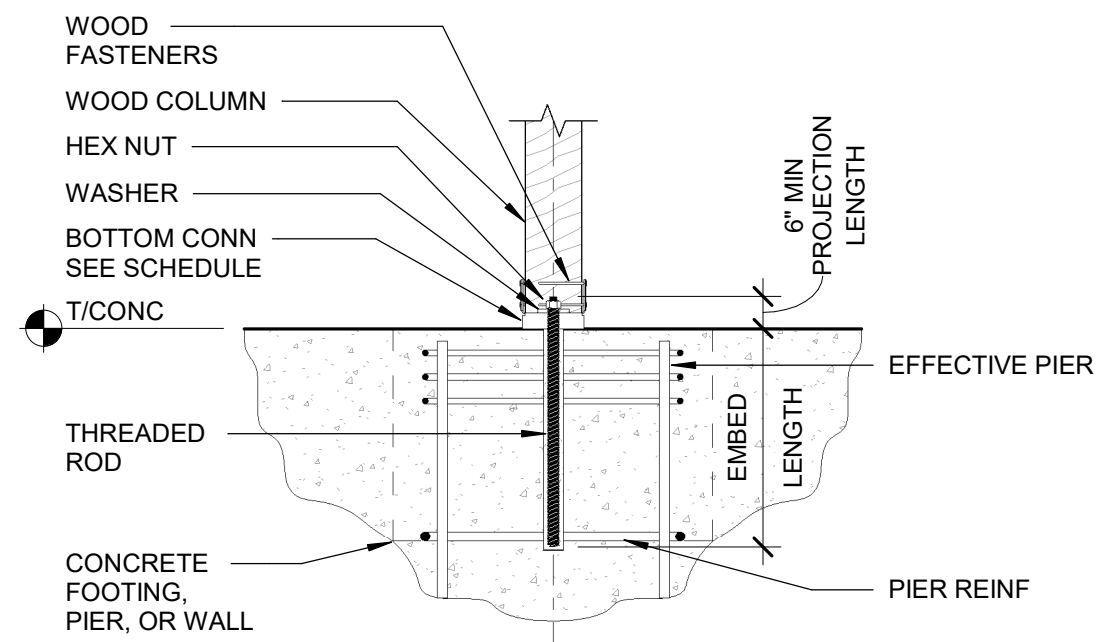
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**NOTES:**

1. APPLIES TO 24" (MAX) OPENINGS THROUGH FOUNDATION WALL.
2. TOP OF OPENING TO BE 24" (MIN) FROM TOP OF WALL.
3. REINFORCING LAYERS TO MATCH FOUNDATION WALL.
4. USE 90° STANDARD HOOK AT CORNERS AND ENDS OF WALL.

**TYPICAL CONCRETE
WALL PENETRATION**

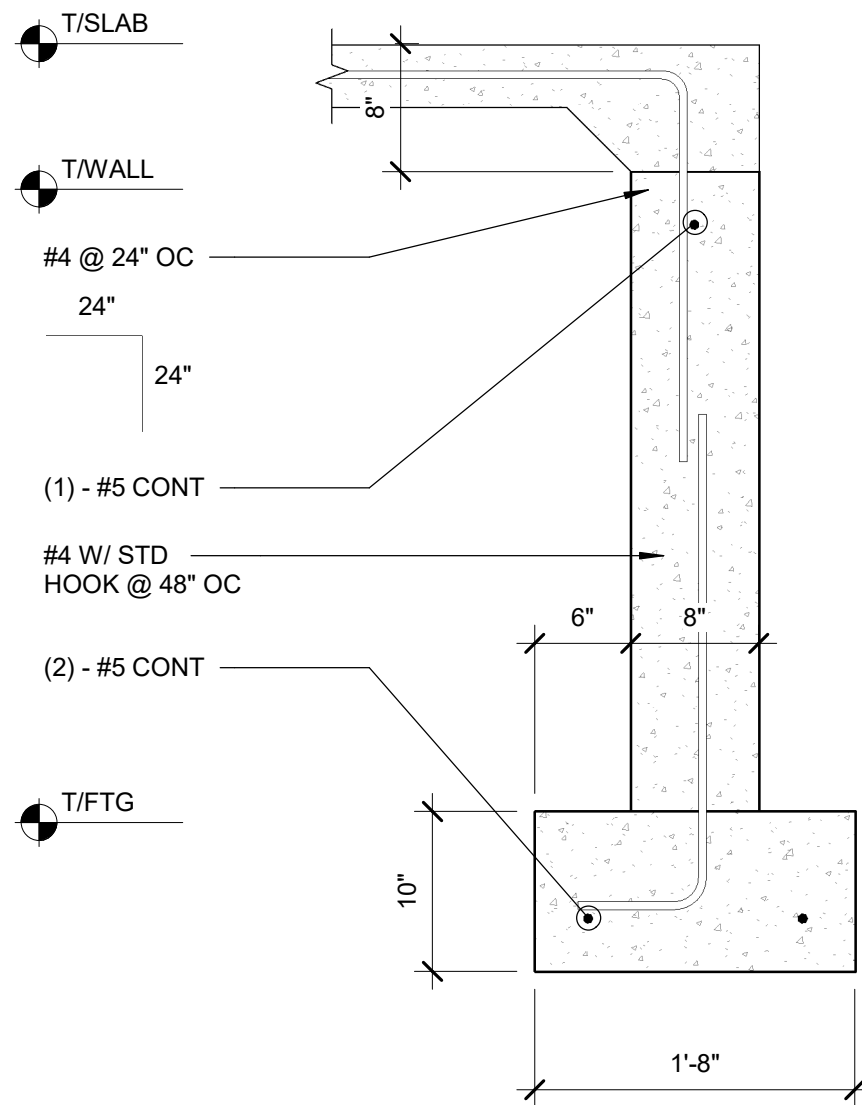
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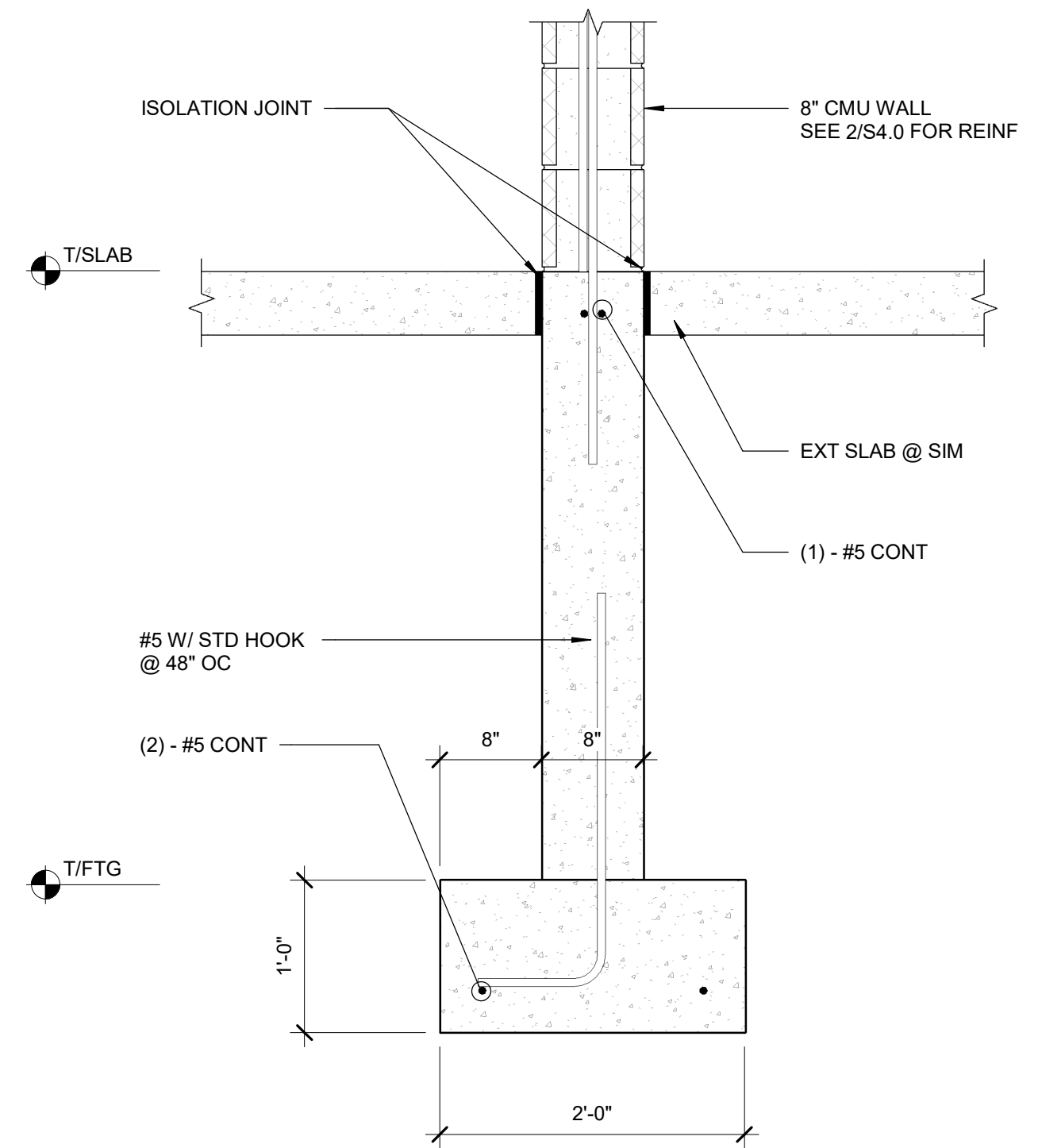
CONN TYPE	WOOD FASTENERS	THREADED ROD Ø (IN.)	EMBED LENGTH (IN.)	EPOXY TYPE
SIMPSON ABA44	(6) - 10d	1/2	4 1/4	HILTI HIT-RE 500
SIMPSON ABA66	(8) - 16d	5/8	5	HILTI HIT-RE 500
SIMPSON ABU88	(18) - 16d	(2) - 5/8	6 5/8	HILTI HIT-RE 500

TYPICAL WOOD COLUMN BASE

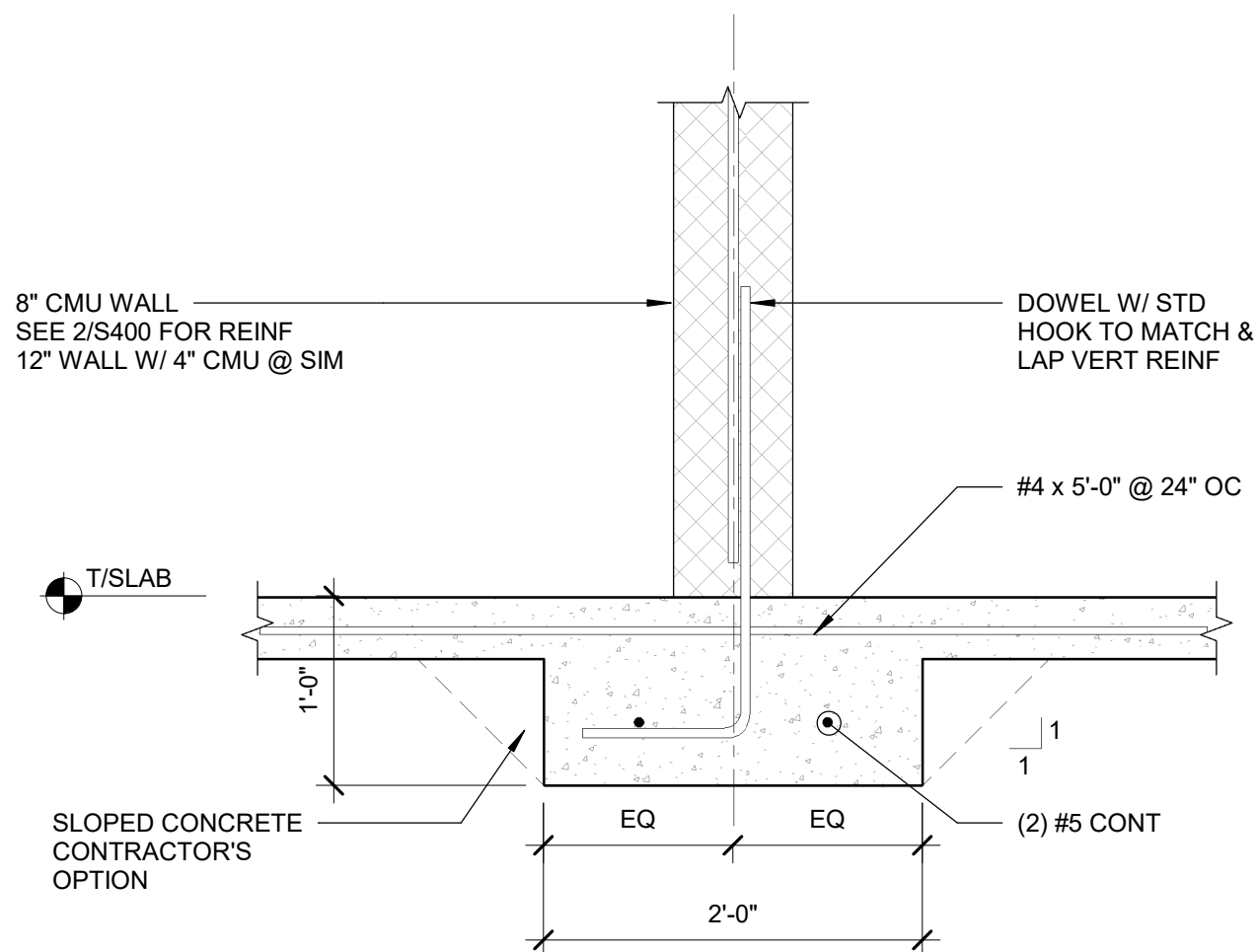
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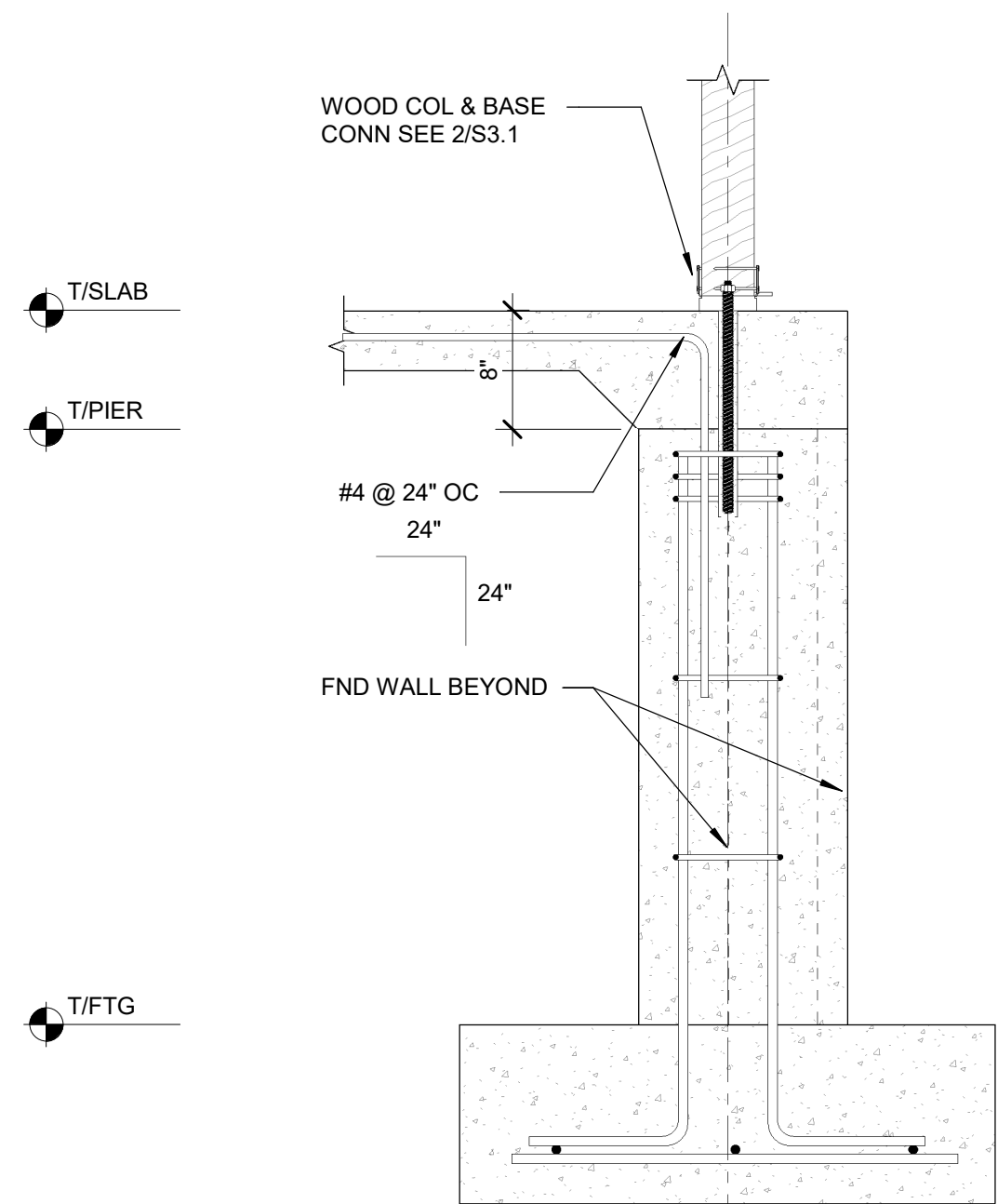
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**SECTION**

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**SECTION**

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**NOTE:** SEE 3/S3.0 FOR INFORMATION NOT PROVIDED**SECTION**

SCALE: NTS

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Project Info. **22005****RIVERSIDE PARK
RESTROOMS**

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**MASONRY SECTIONS &
DETAILS**

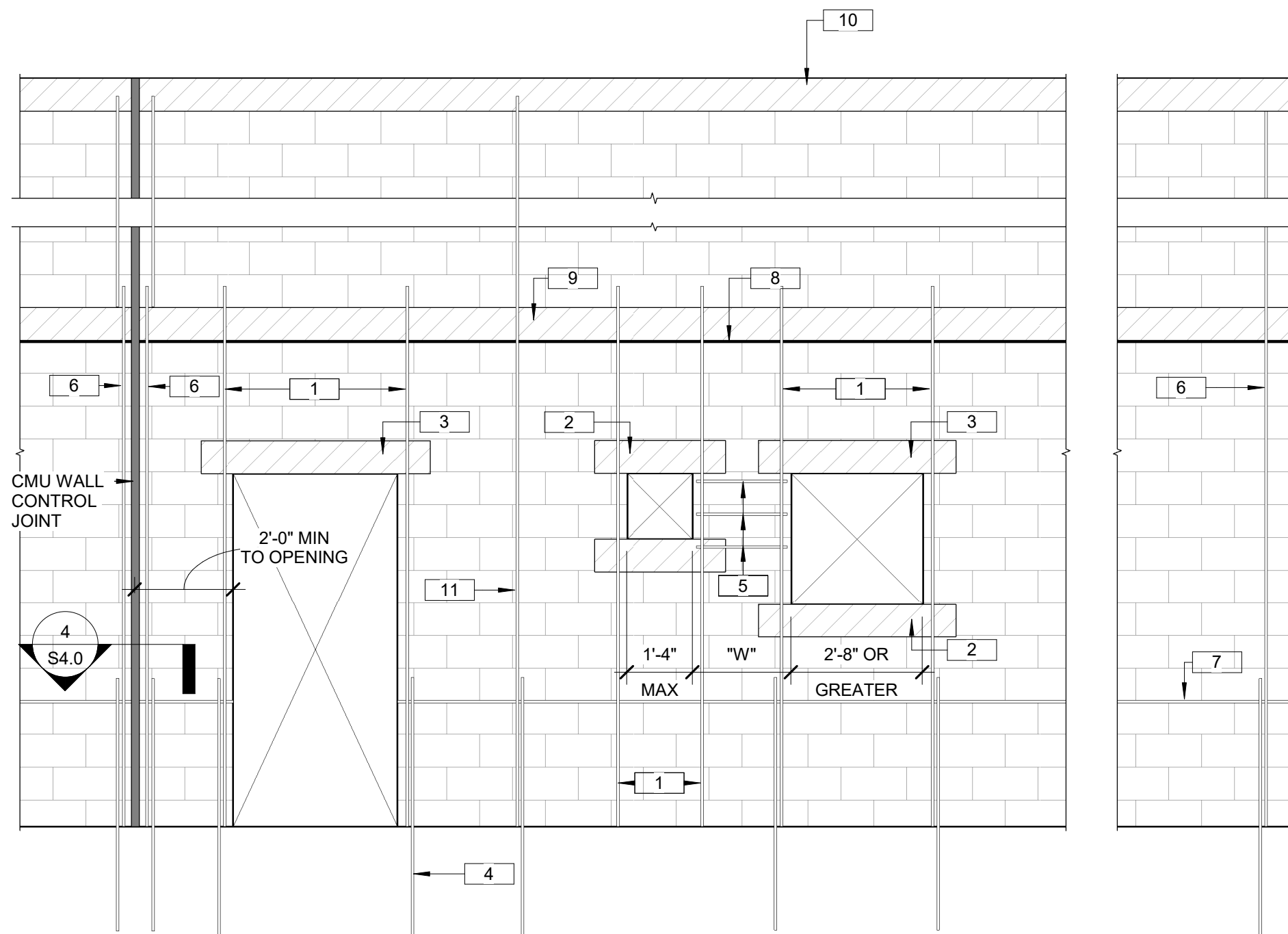
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No.	Date	Description
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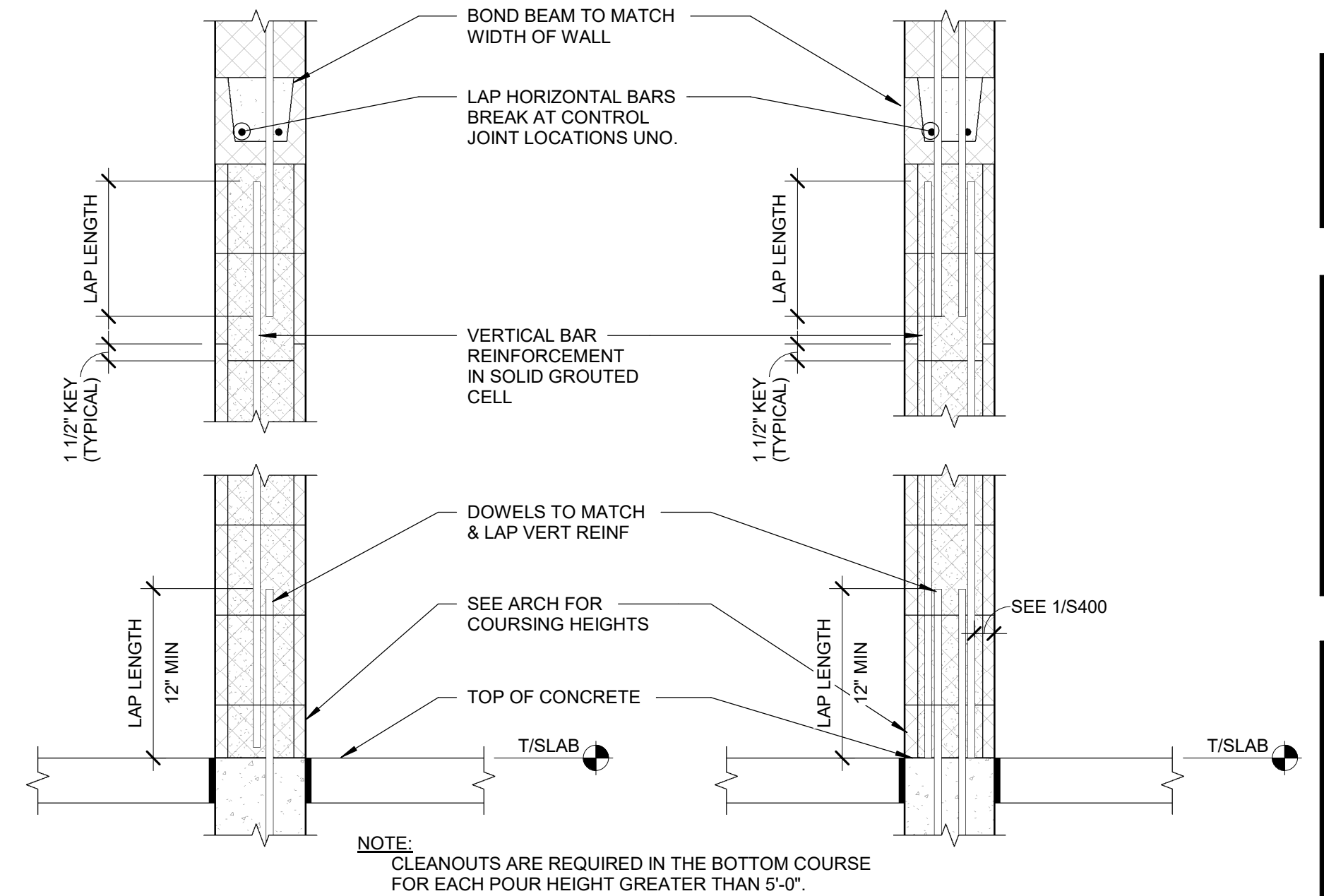
S4.0

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NOTES:

- JAMB REINFORCEMENT PER LINTEL SCHEDULE OR LINTEL DETAILS. MIN (1) #5 EA JAMB.
- 8" BOND BEAM W/ (1) #5 CONT.
- LINTEL SEE SCHEDULE
- DOWELS TO MATCH & LAP VERTICAL REINFORCEMENT.
- WHEN "W" IS LESS THAN 2'-0" AT 8" CMU WALL AND 3'-0" AT 12" CMU WALL, ADD 1/4" CLOSED TIE SETS AT 8" OC.
- REINFORCE VERT CELLS AT END OF WALL AND ADJACENT TO CONTROL JOINTS.
- HORIZ JOINT REINFORCEMENT, SEE GENERAL NOTES.
- ROOF OR FLOOR LINE BEYOND.
- 8" BOND BEAM W/ (2) #4 CONT AT ROOF OR FLOOR LINE, UNO.
- 8" BOND BEAM W/ (2) #4 CONT AT TOP OF WALL, UNO.
- #5 @ 48" OC TYPICAL WALL REINFORCING, UNO.

**1 LAYER OF REINFORCING****2 LAYERS OF REINFORCING****TYPICAL REINFORCED CMU WALL
CONSTRUCTION DETAIL**

MASONRY BAR LAP LENGTHS (Ld) F'm = 2,000 psi

BAR SIZE	8" & 10" BLOCK CLEAR COVER ≥ 1 3/4"	12" BLOCK CLEAR COVER ≥ 2"	CENTERED IN 8" BLOCK	CENTERED IN 10" BLOCK	CENTERED IN 12" BLOCK
#3	15"	13"	8"	8"	8"
#4	25"	22"	13"	10"	10"
#5	39"	35"	20"	16"	13"
#6	MECH SP	MECH SP	38"	29"	24"
#7	MECH SP	MECH SP	MECH SP	40"	33"
#8	MECH SP	MECH SP	MECH SP	MECH SP	MECH SP
#9	NA	MECH SP	NA	MECH SP	MECH SP
#10	NA	MECH SP	NA	MECH SP	MECH SP
#11	NA	MECH SP	NA	NA	MECH SP

**TYPICAL MASONRY
REINFORCING LAP LENGTHS**1
S4.0

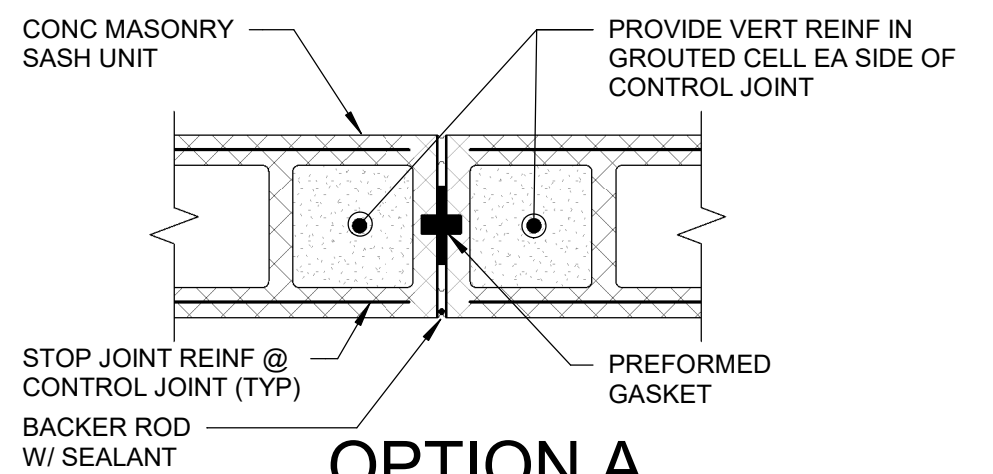
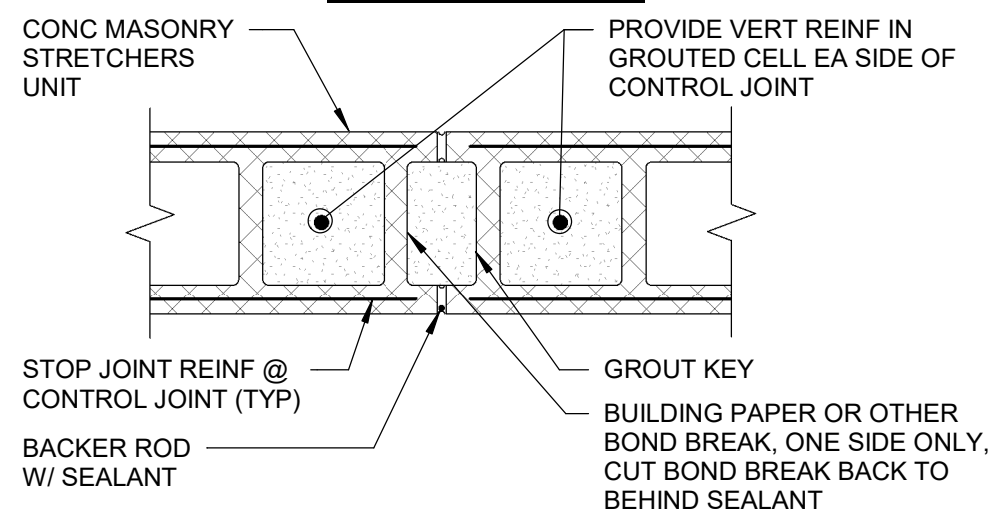
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2
S4.0**TYP CMU WALL REINFORCEMENT**

SCALE: NTS

3
S4.0

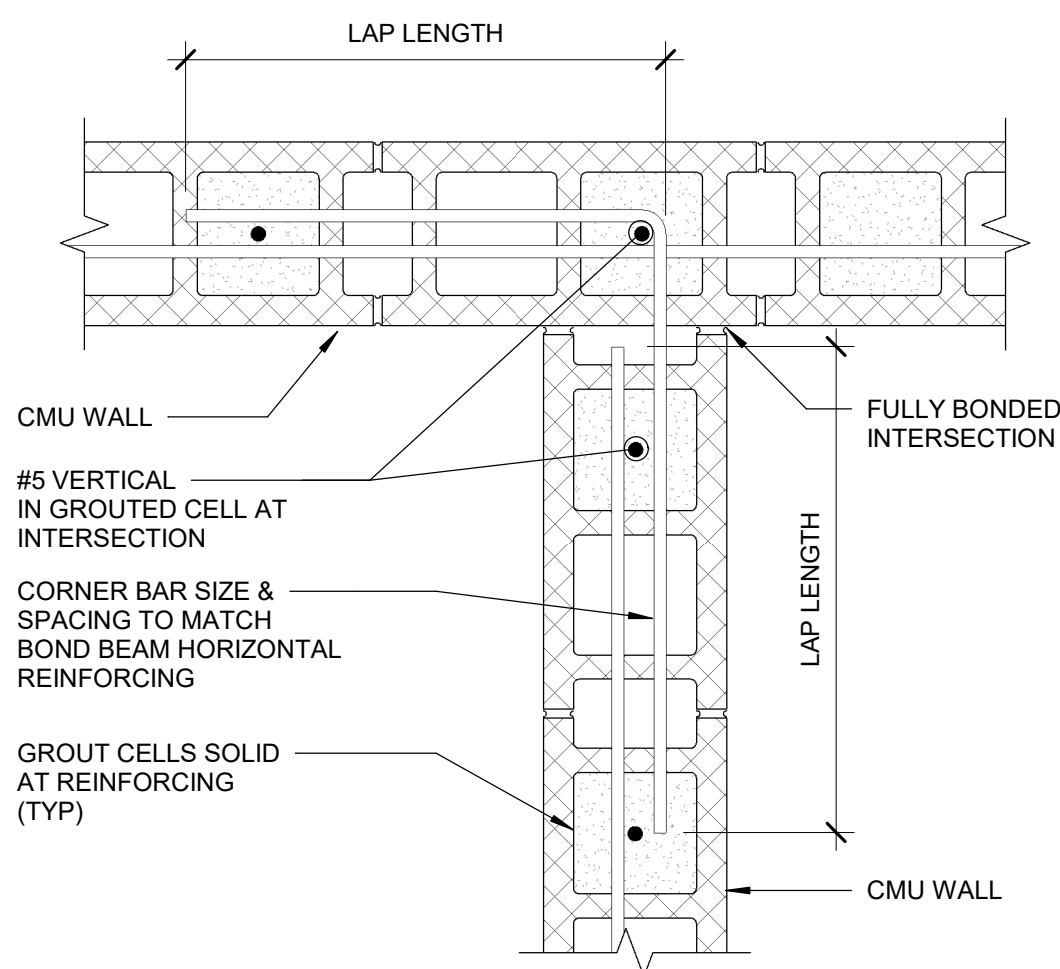
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**OPTION A****OPTION B**

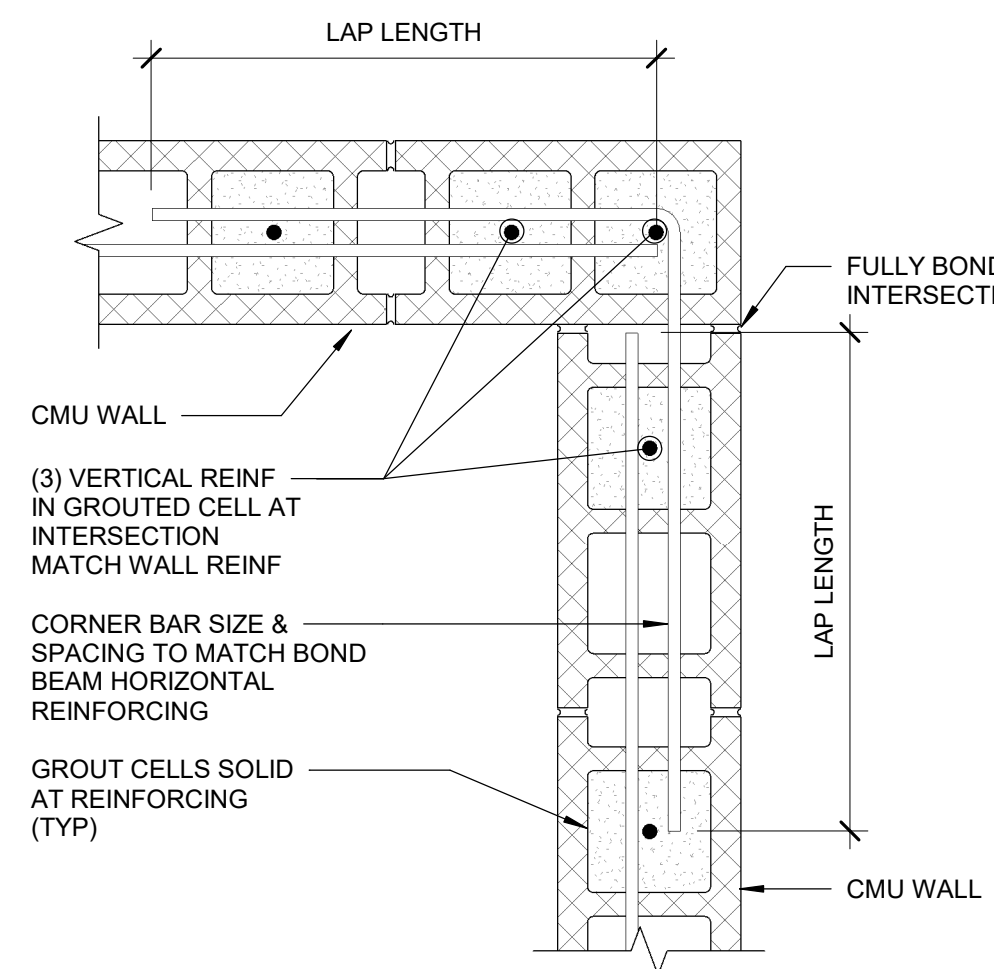
NOTE:
PROVIDE CONTROL JOINTS IN MASONRY WALLS AS FOLLOWS:
EXTERIOR CONCRETE MASONRY 25' OC TYPICAL
12' MAX FROM CORNERS
INTERIOR CONCRETE MASONRY 25' OC TYPICAL
12' MAX FROM CORNERS

4
S4.0**CMU CONTROL JOINT**

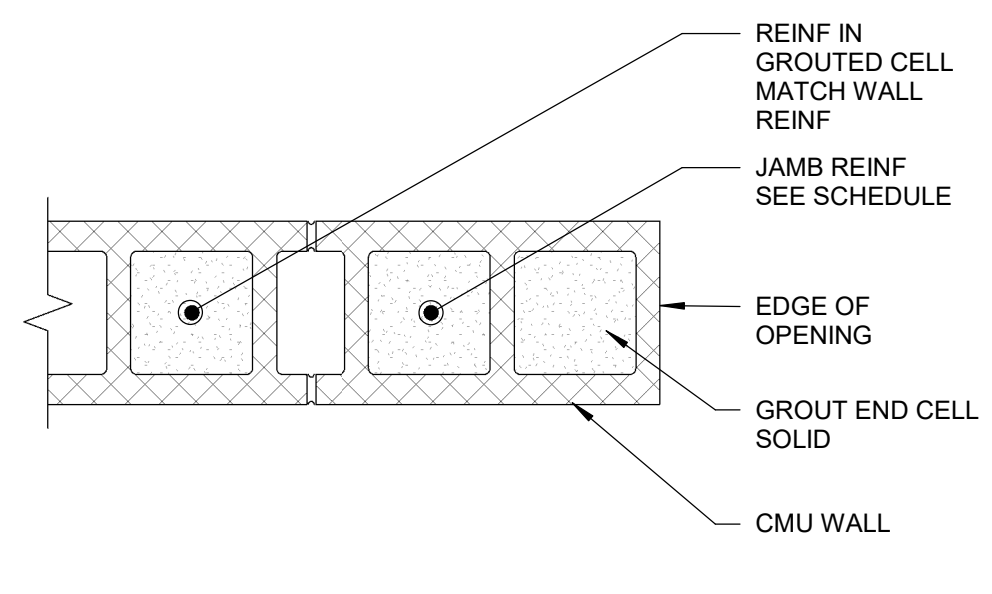
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5
S4.0**CMU WALL INTERSECTION**

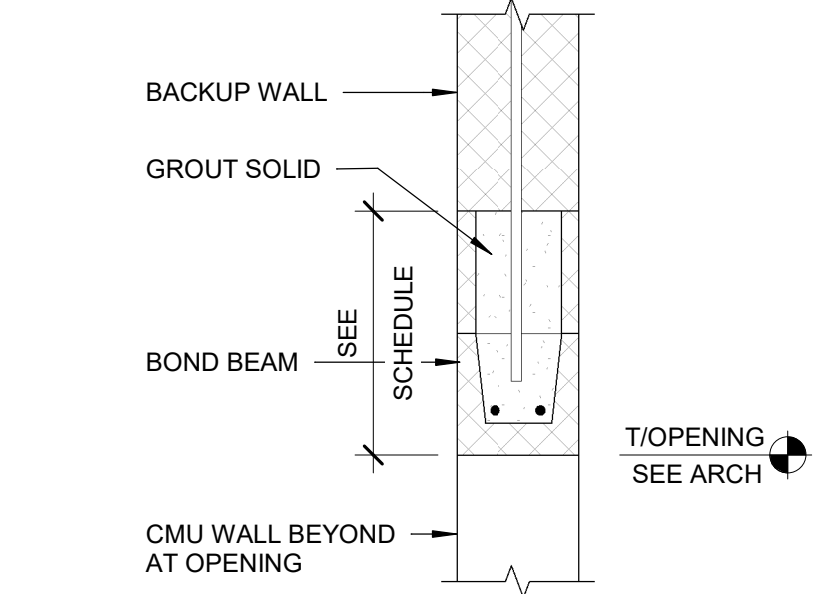
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6
S4.0**CMU WALL CORNER**

SCALE: NTS

7
S4.0**CMU WALL END**

SCALE: NTS

A
S4.0**LINTEL TYPE A**

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RIVERSIDE PARK RESTROOMS

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WOOD SECTIONS & DETAILS

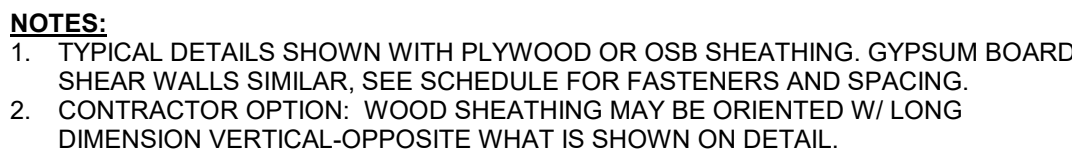
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S6.0

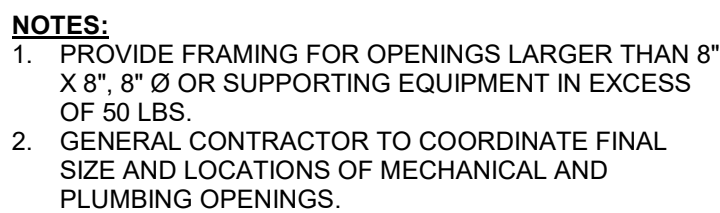
TYPICAL WOOD FASTENING SCHEDULE



4
S6.0



5
S6.0



6
S6.0



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RIVERSIDE PARK
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WOOD SECTION &
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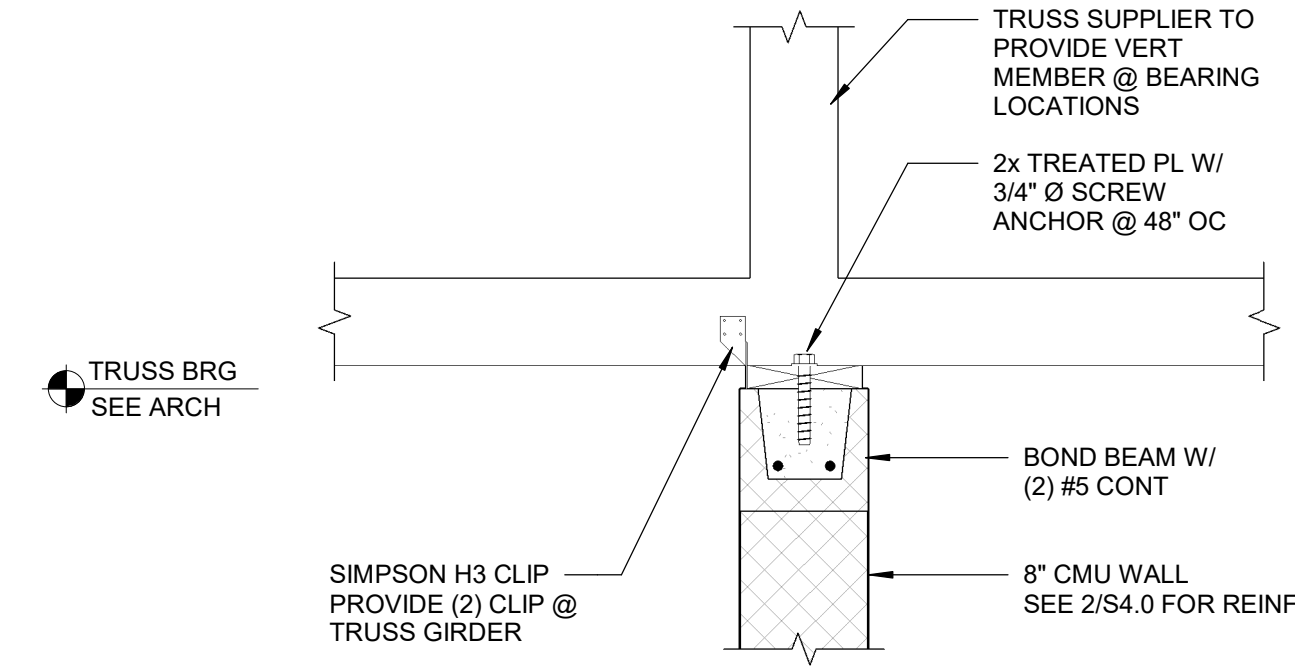
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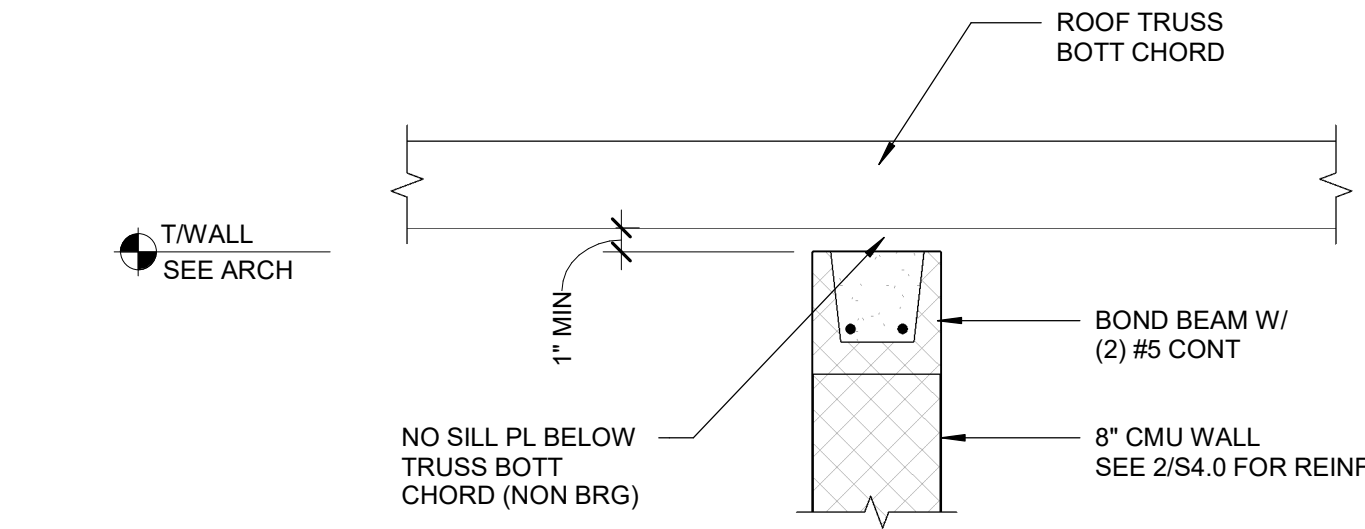
S6.1



1
S6.1

SECTION

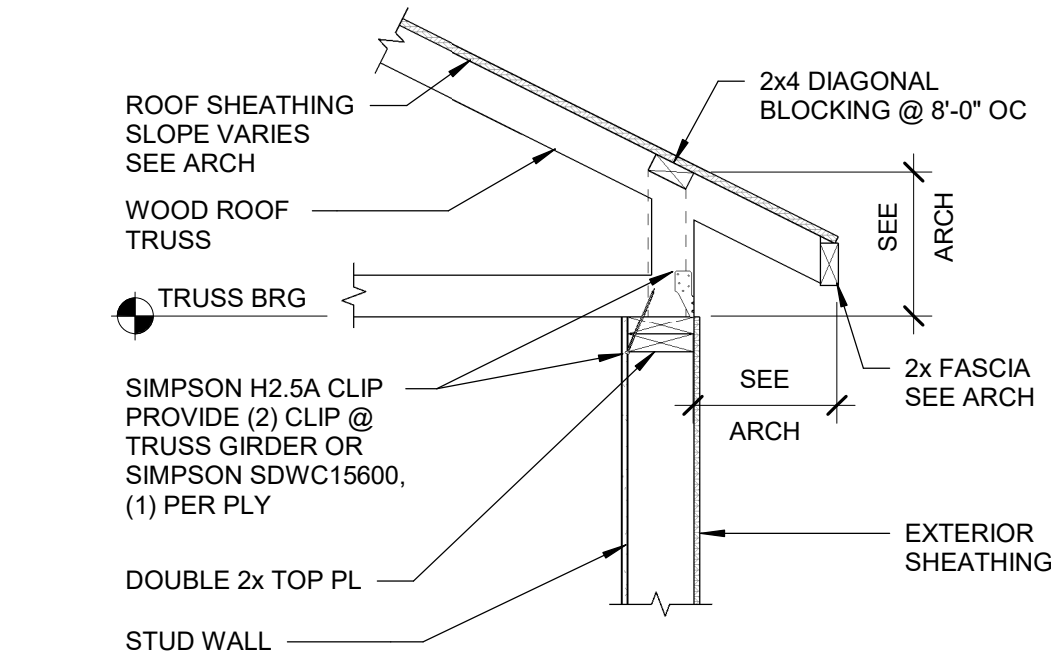
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2
S6.1

SECTION

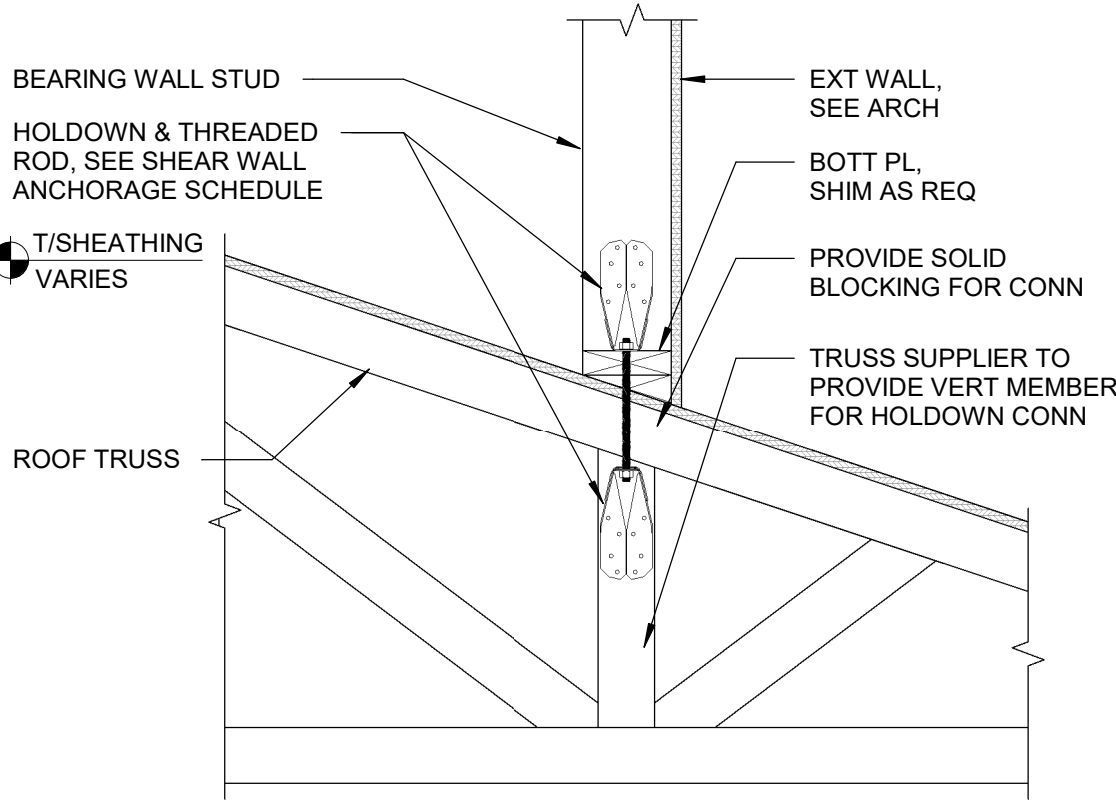
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3
S6.1

SECTION

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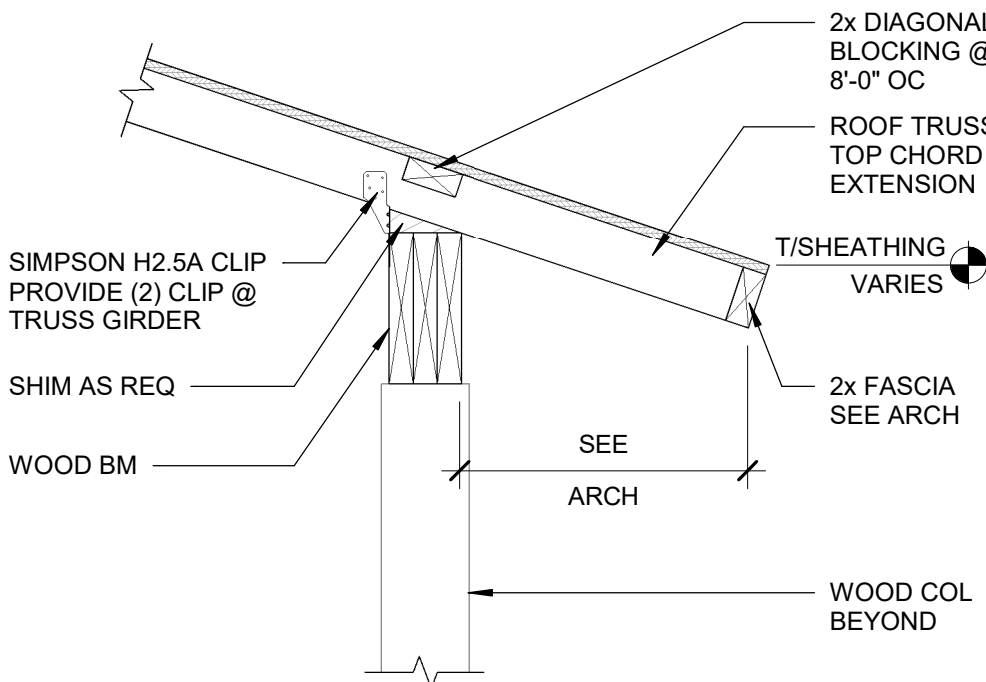


NOTE: SEE 1/S1.1 FOR TRUSS DESIGN LOADS

4
S6.1

SECTION

SCALE: NTS



5
S6.1

SECTION

SCALE: NTS

Main Office
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Nikki Zimmerman
920-262-4045

Dell Zwieg
920-262-4042

Doug Zwieg
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Dennis Quest
920-262-4061

TO: Plan Commission
DATE: March 11th, 2024
SUBJECT: Zoning Code Interpretation

A request for the Plan Commission to confirm a Zoning Code Interpretation regarding the application of density standards.

BACKGROUND:

Some recent development proposals in the City for ‘infill’ types of development have raised the question of how and when density standards are to be applied within the zoning code. In particular, the question has been raised regarding whether the density standards are applied to an individual parcel of land at the time of development or to an entire subdivision when it is platted.

Each residential zoning district contains a density standard measured as the Maximum Gross Density (MGD). For example, the MGD in the Single-Family Residential (SR-4) Zoning District is 4 dwelling units per acre and in the Two-Family Residential (TR-6) Residential Zoning District the MGD is 6 dwelling units per acre. The MGD is defined in the zoning ordinance as ‘the maximum number of dwelling units permitted per acre of gross site area’. Gross Site Area (GSA) is defined in the zoning ordinance as ‘the total area of a site available for inclusion in calculations of the maximum permitted density or intensity of development’.

The Maximum Gross Density (MGD) for a development site is calculated by taking the total acreage of all lands to be platted within a development, both developable and non-developable, and multiplying that by the allowed dwelling units per acre. Maximum Gross Density is different from Net Density. Net Density consists of the developable land after all non-developable areas, such as roads, parks, and wetlands, are subtracted from the total acreage of the development. This is the area where the calculated number of dwelling units are allocated for development at the time of platting.

Per consultation with Vandewalle & Associates, we have determined the following interpretation of MGD within the Zoning Code:

Maximum Gross Density is only calculated for newly platted areas on land with metes and bounds legal descriptions (e.g. unplatted lands) or on platted outlots meant for future development. Maximum Gross Density (MGD) regulations within a particular zoning district do not apply to areas that were previously platted (by plat or CSM). In these cases, the MGD requirements were applied at the time the land was subdivided by the platting process. Future land divisions within the platted areas only need to conform to lot area, lot width, street frontage, and similar requirements of the zoning district.

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Opportunity Runs Through It

The idea here is that all existing parcels within a platted area have already been factored into the MGD at the time the development as a whole was platted. To later hold individual lots within these platted areas to individual MGD calculations is not the proper application of the density standard. Existing lots can be developed as long as they can meet the zoning district bulk requirements such as setbacks, height, size, etc. Likewise, existing lots can be further subdivided if the new lots can meet the zoning district bulk requirements such as lot area, lot width, street frontage, etc.

Plan Commission confirmation is requested for this interpretation of Maximum Gross Density (MGD) and its application under the Zoning Code.

Gross translated to Net Density

To understand how development will act compared to how it will look and feel, gross density must be translated into net density.

Just as gross revenues are different from net profits in the business world, gross density is different from net density. Gross density is the total number of units just as gross revenue is the total number of dollars taken in by a business. Net density leaves the total number of units allowed but divides by a number that represents the developable land rather than the total land, just as net revenue takes away the expenses required to attract the total dollars and you are left with net dollars, so \$100 dollars gross suddenly looks and feels like 20 dollars net.

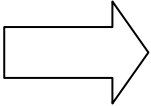
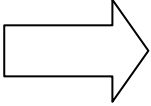
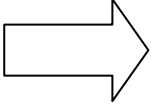
The following chart tries to demonstrate the difference between gross density and net density on a hypothetical 100 acre tract with land features that are undevelopable.

Density Overview

Gross Vs. Net

Hypothetical 100 Acre Parcel

Total Gross Area	100 Acres
Undevelopable Area	40 Acres
Highway ROW	10 Acres
Floodway	5 Acres
Slope Protection	25 Acres
Net Developable Area	60 Acres

Gross Density Acts Like		Net Density Looks Like:
1 DUA (gross) [100 acres x 1 unit per acre yields 100 units]		1.67 DUA (net) [100 units on 60 acres, or approximately 18,000 SF Lots]
2 DUA (gross) [100 acres x 2 unit per acre yields 200 units]		3.33 DUA (net) [200 units on 60 acres, or approximately 9,000 SF Lots]
3 DUA (gross) [100 acres x 3 unit per acre yields 300 units]		5.00 DUA (net) [300 units on 60 acres, or approximately 6,000 SF Lots]