

## SITE PLAN REVIEW COMMITTEE MEETING AGENDA

## MONDAY, MARCH 11, 2024 AT 1:30 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: (Toll Free): 1 866 899 4679 **Access Code** 499-061-117 or https://meet.goto.com/499061117 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: Site Plan Review minutes dated February 12, 2024

## 3. BUSINESS

- A. Review and take action: 672 Johnson Street Group Development
- B. Review and take action: 1207 Boomer Street proposed 1,086 sf building addition
- C. Review and take action: 916 Labaree Street Architectural and location review of Riverside Park restrooms

## 4. ADJOURNMENT

Persons requiring other reasonable accommodations for any of the above meetings, may contact the office of the City Clerk at <u>mdunneisen@watertownwi.gov</u>, 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

#### SITE PLAN REVIEW COMMITTEE February 12, 2024

The Site Plan Review Committee met on the above date at 1:30 P.M. in the Council Chambers on the second floor of City Hall. The following members were present: Mayor Emily McFarland; Brian Zirbes of Building, Safety & Zoning; Andrew Beyer of Engineering; Maureen McBroom of Stormwater Utility; Stacy Winkelman of the Street Department; Mike Zitelman of the Water/Wastewater Department; Kristine Butteris of Park & Rec; Strategic Initiatives and Development Coordinator Mason Becker; Jeff Meloy of the Police Department, and Anthony Rauterberg of the Fire Department. Also in attendance were Nikki Zimmerman, Ruth Mack, Bruce Loeb, Margaret and Brad Hayes, Pete Weston, and Chris McGuire of McCon Building Corporation. Fred Runde joined virtually.

#### 1. Call to Order

The meeting was called to order by Chairperson Brian Zirbes.

#### 2. Approval of Minutes

- A. Review and take action: Site Plan Review Minutes Dated January 22, 2204
  - Motion was made by Stacy Winkelman and seconded by Anthony Rauterberg to approve the January 22, 2024 Site Plan Review minutes as submitted. Unanimously approved.

#### 3. Business

A. Review and take action: 1110 S. Tenth Street & 1111 S. Tenth Street – proposed salvage yard/recycling center Applicants Ruth Mack and Bruce Loeb were present to answer any questions.

The following was presented by staff:

Building:	Building Inspector Doug Zwieg was not present in person but provided notes that stated if there is any building, electrical, plumbing, or HVAC work done, be sure to pull the proper permits. A building permit will require architectural plans. There is nothing currently planned at this point.
Fire:	An exterior Knox Box will need to be installed.
Engineering:	Would like copies of permits of the site, a plan to prevent tracking in the street, details for stormwater best management practices features on site, and maintenance plans for the stormwater best management practices.
Stormwater:	No comments.
Streets and Solid Waste:	No comments.
Water/Wastewater:	No comments.
Police:	No comments.
Zoning:	No comments.
Parks:	No comments.

Motion was made by Emily McFarland and seconded by Andrew Beyer to recommend approval of this proposal to Plan Commission with contingent upon submittal of stormwater best management practices, maintenance plans for stormwater best management practices, and an exterior Knox Box.

Unanimously approved.

#### B. Review and take action: 1722 S. Church Street – Culver's addition

Chris McGuire was present to describe the proposed project. The proposal is for a dining room addition on site. The HVAC would be updated, as well as the hoods in the kitchen. The store would be closed to the public for about 10 days during the construction.

The following was presented by staff:

Building:	Building Inspector Doug Zwieg was not present in person but provided notes that stated the plans can be reviewed in-house.
Fire:	No comments.
Engineering:	No comments.
Stormwater:	If 3,000 sf of land disturbance or concrete work, a Stormwater Erosion Control Permit will be required.
Police:	No comments.

Streets and Solid Waste:	No comments.	Section 2, Item A
Water/Wastewater:	No comments.	
Zoning:	The landscaping points will have to be calculated. Mr. McGuire stated the deficiency in trees. Asked about shrubs. The outdoor seating will not be a point. The ordinance will be updated in the near future (hopefully within a which will then allow for this use by right.	re will be a llowed at this 4-month period)
Parks:	No comments.	
Mayor:	Excited to see these adjustments which should alleviate some of the issurestaurant is busy.	es when the

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Motion was made by Emily McFarland and seconded by Stacy Winkelman to recommend approval of this proposal to Plan Commission contingent upon an approved landscape plan, outdoor seating, and Stormwater Erosion Control Permit.

Unanimously approved.

#### C. Review and take action: 717 W. Main Street - site plan for two proposed buildings

Brad Hayes described the proposed project. The proposal is for commercial condos on site. Construction is proposed for Spring 2024.

The following was presented by staff:

Building:	Building Inspector Doug Zwieg was not present in person but provided notes that stated the plans can be reviewed in-house.
Fire:	Individual Knox Boxes will be required.
Engineering:	No comments.
Stormwater:	An erosion control permit would be required because over 3,000 sf of land will be disturbed.
Police:	No comments.
Mayor:	This will be an excellent reuse of the current space.
Streets and Solid Waste:	No comments.
Water/Wastewater:	No comments.
Zoning:	No comments.
Parks:	No comments.

Motion was made by Emily McFarland and seconded by Kristine Butteris to recommend approval of this proposal to Plan Commission with inclusion of the above items.

Unanimously approved.

#### 4. Adjournment

Motion was made by Andrew Beyer and seconded by Emily McFarland to adjourn. Unanimously approved.

Respectfully submitted, Nikki Zimmerman Recording Secretary

NOTE: These minutes are uncorrected, and any corrections made thereto will be noted in the proceedings at which these minutes are approved.

#### **Brief Business Overview:**

#### Unit 1 (Collective) of the Collective/YMCA Condominium Association

Historical Use of 672 Johnson St was the corporate office center of Ablelight (formally Bethesda).

August 2022 – Greater Watertown Community Health Foundation purchased the 48,000 SF office building and renovated so it could better serve the community. With that focus, the building was repurposed for 3 different business functions.

- 1<sup>st</sup> Floor Fitness (Entertainment), Assembly, Commercial Kitchen for Childcare
  - Floors main purpose is Entertainment and Fitness for the YMCA. The Parking needs are understood for conditional use permitting to need allocation of 1 stall per 3 Lockers. Their will be 50 lockers in the facility matching their max occupancy. That assigned 17 parking slots to this user
  - Number of Employees 15 on this floor
- 2<sup>nd</sup> Floor Full floor will be dedicated to licensed childcare with a total capacity to up to 220 children, of which 126 slots will be new supply to the community.
  - Floor's purpose is Childcare. Code requires 1 stall for every 5 children plus 1 stall per staff member. Head start program will be 80 children with the ability to flex up to 100 and YMCA will be 126. Head Start will have 12 staff members and YMCA will have 19 on site. The parking allocation for this floor ranges from 72-76 depending on Head Starts enrollment.
  - Number of Employees 35 on this floor
- 3<sup>rd</sup> Floor Remained office space, designed as a co-working environment to serve both nonprofit support partners of the foundation as well as mission driven for profit businesses.
  - Code states 1 stall for every 300 SF of office space. In the building, 14,997 SF will be used for office purposes. This allocates 50 stalls for the office users.
  - Number of Employees 60 on this floor
- In total parking needs are 139-143 stall. The current parking lot was designed for 158 stalls, of which 7 are assigned for handicap assessable needs.

Hours of operation:

- Normal operating hours 6am-9pm for main entrances of the building
  - After hour access with security access for those who work in the building.
- YMCA Ehlinger Center is a 24-hour model (staffed 7am-7pm M-F, 7-12 on Sat) After normal business hours, they have a secured door on the east side of the building for members to enter and exist. After hours, YMCA members will only be able to access the YMCA Express space.
- Childcare normal operation is 6am 6pm. There is a dedicated, secure, entrance created for this service specifically.

#### Unit 2 – New Watertown Are YMCA of the Collective/YMCA Condominium Association

June of 2024 – Glacial Community YMCA will be expanding on the site. The new building has a footprint of 55,347 SF on a two floor design and will be constructed over an estimated 12 month period. This building will share a wall with the existing building on the south end of the existing structure with a connection point through the existing fitness center (Ehlinger Center). See plans for details.

Hours of Operation with be as follows:

Monday – Thursday:	5am-9pm
Friday:	5am-8pm
Saturday:	6am-4pm
Sunday:	10am-2pm

#### Code Standards for Parking:

Parking needs for this use is understood to be 1 stall per 3 lockers. The newly constructed building will have 267 lockers which requires 89 parking stalls. In addition, 1 stall per employee. An estimated 18 staff members will be on site daily resulting in a need for 107 newly created stalls to meet code.

Adding the existing parking needs to the new demand, a minimum of 250 parking spaces will be required to handle day-to-day parking needs. The designed plan will have 330 parking spaces on the site, exceeding the minimum target by 80 stalls.

Possible Nuisances:

- 12-month new construction
- After Certificate of Occupancy this facility is expected to be used frequently, which could pose
  a risk of nuisance behavior. To mitigate, the foundation and the YMCA have invested heavily in
  camera security systems to have full, time stamped, coverage of the building (exterior and
  interior), parking lots and playgrounds being developed and expanded to accommodate new
  uses.
- Collective and YMCA location will precede and actually catalyze future developments

#### § 550-68. Definition.

- A. A "group development" is any development containing:
  - (1) Two or more structures containing principal land uses on the same lot.
  - (2) Any single structure on a single lot which contains five or more dwelling units or two or more nonresidential uses.
  - (3) Any new institutional, commercial and office buildings in excess of 5,000 gross square feet and all multibuilding group developments in which the combined total of all structures on a site, regardless of diverse ownership, use or tenancy, exceeds 5,000 square feet.
  - (4) Any building additions to institutional, commercial and office buildings that bring the total building size to over 5,000 gross square feet. These regulations shall apply to the building addition, the older portions of the building constructed prior to the adoption of this article, and to the site.
  - (5) Any new development other than single-family residential in the overlay zoning districts described in §§ 550-149, 550-150 and 550-151.
- B. Common examples of group developments include six-unit apartment buildings, apartment complexes, condominium complexes, strip centers, shopping centers and office centers. (One-tenant office or commercial buildings containing less than 5,000 square feet of gross floor area, four-unit apartment buildings, and other land uses in which each nonresidential building contains only one tenant, or where the lot contains only one structure, or where each residential building contains four or fewer dwelling units, are not group developments even though such developments may contain parcels under common ownership.)
- C. A group development does not offer the ability to customize the regulations of this chapter as could be achieved using a planned development per § 550-38. A group development approval is not required for an approved specific implementation plan.

#### § 550-69. Use regulations.

- A. Permitted by right: not applicable.
- B. Conditional use regulations. Any land use that is permitted as a permitted by right land use or as a conditional land use within the applicable zoning district(s) is permitted to locate within a group development. The detailed land use regulations of this section that pertain to individual land uses shall also apply to individual land uses within a group development, as will all other applicable provisions of this chapter. Therefore, land uses permitted by right in the zoning district shall be permitted by right within an approved group development (unless otherwise restricted by the conditions of approval imposed during the conditional use approval for the group development as a whole), and land uses permitted as a conditional use in the zoning district shall be permitted within the group development only with conditional use approval for the specific use. In all cases,

the following conditional use conditions shall be applied to the group development as a whole and to individual uses within the group development:

- (1) All required off-street parking spaces and access drives shall be located entirely within the boundaries of the group development.
- (2) The development shall contain a sufficient number of waste bins to accommodate all trash and waste generated by the land uses in a convenient manner.
- (3) No group development shall take access to a local residential street.
- (4) All development located within a group development shall be located so as to comply with the intent of this chapter regarding setbacks of structures and buildings from lot lines. As such, individual principal and accessory structures and buildings located within group developments shall be situated within building envelopes that serve to demonstrate complete compliance with said intent. Said building envelopes shall be depicted on the site plan required for review of group developments. The use of this approach to designing group developments will also ensure the facilitation of subdividing group developments in the future (if such action is so desired).
- (5) The following standards shall apply to all group developments:
  - (a) Building exterior materials shall be of high quality on all sides of the structure, including glass, brick, decorative concrete block or stucco. Decorative architectural metal with concealed fasteners may be approved with special permission from the City.
  - (b) Building exterior design shall be unified in design and materials throughout the structure and shall be complementary to other structures in the vicinity. However, the development shall employ varying building setbacks, height, roof, treatments, door and window openings, and other structural and decorative elements to reduce the apparent size and scale of the structure. A minimum of 20% of the combined facades of the structure shall employ actual facade protrusions or recesses. A minimum of 20% of the combined linear roof eave or parapet lines of the structure shall employ differences in height of eight feet or more. Roofs with particular slopes may be required by the City to complement existing buildings or otherwise establish a particular aesthetic objective.
  - (c) Mechanical equipment, refuse containers and any permitted outdoor storage shall be fully concealed from on-site and off-site ground-level views with materials identical to those used on the building exterior.
  - (d) Standard corporate trademark building designs, materials, architectural elements and colors all shall be acceptable, as determined by the City, only as subtly integrated into the more generic design of the building as a whole. Color schemes of all architectural elements shall be muted, neutral, nonreflective and nonuse- or nontenant-specific.

§ 550-69

- (e) Public entryways shall be prominently indicated from the building's exterior design and shall be emphasized by on-site traffic flow patterns. All sides of the building that directly face or abut a public street shall have public entrances.
- (f) Loading areas shall be completely screened from surrounding roads and residential, office and commercial properties. Said screening may be through internal loading areas, screening wall that will match the building exterior in materials and design, fully opaque landscaping at time of planting, or combinations of the above. Gates and fencing may be used for security purposes but not for screening and shall be of high aesthetic quality.
- (g) Vehicle access from public streets shall be designed to accommodate peak traffic volumes without disrupting traffic on public streets from inadequate throat length, access drive width or design or inadequate driveway location. The impact of traffic generated by the proposed development shall be demonstrated by a traffic impact analysis performed by the applicant's traffic engineer so as to not adversely impact off-site public roads, intersections and interchanges during the traffic peak associated with a full parking lot. Where the project shall adversely impact off-site traffic, the City may deny the application, may require a size reduction in the proposed development, or may require off-site improvements.
- (h) 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.
- (i) A minimum of one cart-return area of 200 square feet shall be provided for every parking area pod. There shall be no exterior cart-return or cartstorage areas located within 25 feet of the building in areas located between the building and a public street.
- (j) The applicant shall demonstrate full compliance with City standards for stormwater, utilities, erosion control and public safety.
- (k) 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.
- (l) 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

§ 550-70

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.

- (m) The entire development shall provide for full and safe pedestrian and bicycle access within the development and shall provide appropriate connections to the existing and planned pedestrian and bicycle facilities in the community and in surrounding neighborhoods, including sidewalk connections to all building entrances from all public streets. The development shall provide secure bicycle parking and pedestrian furniture in appropriate quantities and location. A central pedestrian gathering area shall be provided.
- (n) Where such developments are proposed to provide a new location for a business already located within the community, a required condition of approval for the new development shall be a prohibition on conditions of sale, lease or use of the previously occupied building or site which provide limits beyond the range of applicable local, state or federal regulations. If such limits are required, the applicant may seek City approval to demolish the previously occupied structure and prepare the site for some future development.
- (o) The applicant shall provide adequate evidence that the proposed development and uses cannot be adequately sited within or on existing developed properties or buildings within the community.
- (p) The Plan Commission may waive any of the above standards by a threefourths' vote of members in attendance, but only if supplemental design elements or improvements are incorporated into the project that compensate for the waiver of the particular standard.

#### § 550-70. Discrimination against condominium forms of ownership.

It is not the intent of this article, nor any other provision of this chapter, to discriminate against condominium forms of ownership in any manner which conflicts with § 703.27, Wis. Stats. As such, the provisions of this article are designed to ensure that condominium forms of ownership are subject to the same standards and procedures of review and development as other physically identical forms of development.

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	The Following standards shall apply to group developments:				
1					
(a)	Building exterior materials shall be high quality on all ides of the structure, inc brick, decorative concrete block or stucco. Decorative architectural metal with fasteners may be approved with special permission from the city	lud co	ing nce	glas ealec	s,
Response	Building meets exterior standards required	1	1		
				-	
b)	Building exterior design shall be unified in design and materials throughout the shall be complementary to other structures in the vicinity. However, the developmentary to other structures in the vicinity. However, the development of the structural and decorative elements to reduce the apparent size and scale structure. A minimum of 20% of the combined facades of the structure shall en facade protrusions or recesses. A minimum of 20% of the combined linear root parapet lines of the structure shall employ differences in height of eight feet or with particular slopes may be required by the City to complement existing build otherwise establish a particular aesthetic objective.	e st opn ope e o mpl f e mpl f e	ruc nen enir f th oy ave ore g o	eture t sha ngs, e actu e or . Ro	and all and al of
	Puilding mosts standards presented, east side of Collective tier' d design appr	m	lic	200	ho C
Response	eave height change requirements	arik	115	165	
c)	Mechanical equipment, refuse containers and any permitted outdoor storage s concealed from on-site and off-site ground level views with materials identical on the building exterior.	ha to 1	ll b ho:	e full se u	y sed
esnonse	Standard will be fully met				
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1)	Standard Corporate trademark building designs, materials, architectural eleme all shall be acceptable, as determined by the City, only as subtly integrated int generic design of the building as a whole. Color Schemes of all architectural e be muted, neutral, nonreflective and nonuse-or non tenant specific.	nts o th em	ar ne r ien	id co nore ts sh	olors all
esponse	Standard is acceptable and will be fully met				1
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(e)	Public entryways shall be prominently indicated from the building's exterior design and shall be emphasized by on-site traffic flow patterns. All sides of the building that directly face or abut a public street shall have public entrances
Response	Building will fully meet the standard
(f)	Loading areas shall be completely screened from surrounding roads and residential, office and commercial properties. Said screening may be through internal loading areas, screening wall that will match the building exterior in materials and design, fully opaque landscaping at time of planting, or combinations of the above. Gates and fencing may be used for security purposes but not for screening and shall be of high aesthetic quality.
<b>D</b>	
Response	Waiver requested, does not apply to design nor programing of the building and it's users
(g)	Vehicle access from public streets shall be designed to accommodate peak traffic volumes without disrupting traffic on public streets from inadequate throat length, access drive width or design or inadequate driveway location. The impact of traffic generated by the proposed development shall be demonstrated by a traffic impact analysis performed by the applicant's traffic engineer so as to not adversely impact off-site public roads, intersections and interchanges during the traffic peak associated with a full parking lot. Where the project shall adversely impact off-stie traffic, the City may deny the application, may require a size reduction in proposed development, or may require off-site improvements.
Response	Infrastructure in place should be adequate to compile with this requirement
9 (1 maintain) (1 maintain) (1 maintain)	
(h)	Parking lot design shall employ interior landscape 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.
Response	Requesting a waiver separating the 97 stalls from the 100 stalls on south end of the parking lot. Site is land locked and for program purposes to maximize parking, requesting to removed the requirement of the Median island only.

(i)	A minimum of one cart-return area of 200 SF shall be provided by every parking area pod. There shall be no exterior cart return or cart-storage areas located within 25 feet of the building in areas located between the building and public street.
Response	Waiver request, this does not apply. The operating businesses do not use carts
j)	The applicant shall demonstrate full compliance with City standards for stormwater, utilities, erosion control and public safety
Response	Standard will be met. We have coordinated with City staff and designed this project to meet City and state standards with regards to Utilities, stormwater management and erosion control. In addition the project will be submitted to the Wisconsin DNR for their review and approval or erosion control and stormwater management. The project will meet all City and NFPA codes related to fire protection and public safety. Refer to the included plans and stormwater management report which demonstrates compliance.
k)	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
Response	Will fully meet the set standard
)	A conceptual plan for exterior signage shall be provided at time of detailed site plan for GDP that provides for coordinated and complementary exterior sign location, configurations and colors throughout the planned development. 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.
esponse	Fully meets the standard
n) (	The entire development shall provide for full and safe pedestrian and bicycle access within the development and shall provide appropriate connections to the existing and planned pedestrian and bicycle facilities in the community and in surrounding neighborhoods, including sidewalk connections to all building entrances from all public streets. The development shall provide secure bicycle parking and pedestrian furniture in appropriate quantities and location. a central pedestrian gather area shall be provided.
esponse	Site fully meets this standard as is

Where such developments are proposed to provide a new location for a business already located within the community, a required condition of approval for the new development shall be a prohibition on conditions of sale, lease or use of the previously occupied building or site which provide limits beyond the range of applicable local, state or federal regulations. It such limits are required, the applicant may seek City approval to demolish the preciously occupied structure and prepare the site for some future development. (n) Waiver, YMCA working with Board and community leaders to identify highest and best use of Response existing site The applicant shall provide adequate evidence that the proposed development and uses cannot be adequately sited with or on existing develop site or building within the community (0) Response All adequate sites were fully vetted with this site being the most beneficial The Plan Commission may waive any of the above standards by a three-fourths vote of members in attendance, but only if supplemental design elements or improvements are (p) incorporated into the project that compensate for the waiver of the particular standard.

# Location Map



Parcels Standard	ized ROW Widths		z
	Town Roads - Local/County		, , , , , , , , , , , , , , , , , , ,
City Limits	Town Poodo Stata Hung	City of Watertown Geographic Inform	ition System
	IOWIT ROADS - STATE HWY	Scale:         1 inch = 200 feat           SCALE BAR = 1"         DisCLAIMER: This map is not a substtute for an acture accuracy of this map is limited to the quality of the orne into exercise occur during the compilation of the complete sector acture sector acture of the complete sector acture sec	Printed on : February 21, 2024 Author: Private User al field survey or on site investigation. records from which it was assembled. on process.

City of Watertown makes no warranty whatsoever concerning this information.

# **STORMWATER MANAGEMENT REPORT**



Watertown YMCA

Date: February 23, 2024

Prepared By: Harwood Engineering Consultants, Ltd.



# HARWOOD

255 N 21x Street Milwaukee, WI 53233 414-475-5554 Nathan Schmit P.E. 255 North 21st Street Milwaukee, WI 53233 Ph: 414-475-5554 Fx: 414-773-9240 Project Number: 23-0049.00 Reviewed by: Brad Seubert

## Introduction

The Watertown YMCA project is located south of the existing The Collective building located on Johnson Street in the City of Watertown, Wisconsin. This stormwater management report describes the practices that were used to meet the City of Watertown and the Wisconsin Department of Natural Resources (WDNR) stormwater management requirements.

An existing stormwater management report was approved by the City in 2022 for a small project on the north side of the property for The Collective building totaling roughly 1.1 acres. This current project will include those disturbed areas as well as the current disturbed areas to meet/match the same requirements as the 2022 stormwater management report.

## Method of Analysis and Requirements

- Stormwater quantity management analysis was completed using HydroCAD-10.0 modeling software. Runoff curve numbers were determined from the NRCS tables within the TR-55 handbook. The rainfall events used in this analysis were based on the NRCS values for Jefferson County for 2-YR, 10-YR and 100-YR, 24-hour events (2.79 inches, 3.93 inches and 6.19 inches, respectively).
- Stormwater quality analysis was completed utilizing WinSLAMM V.10.5.0 The on-site water quality design was completed using the Madison rainfall files provided by WinSLAMM modeling software as well as the date ranges required by WDNR NR151.
- On-site storm sewer calculations were completed utilizing the Rational Method and Manning's equation, as well as, the design storm rainfall values per Atlas 14.
- The stormwater <u>quantity</u> requirements for this site are dictated by the City of Watertown and WDNR. This project is a re-development project which is exempt from quantity requirements.
- Stormwater <u>quality</u> requirements are dictated by the City of Watertown and require that this project achieve a reduction of 60% total suspended solids (TSS) from new parking and road areas as well as a 30% Phosphorus reduction for the whole site. The *Water Quality Summary* section summarizes the water quality methods and results on-site.

## **Soils Information**

Soils on-site are mainly comprised of silty clay covered by a varying amount of topsoil. Refer to the **Soils Section** for Web soil survey information.

#### Pre-development Watershed Conditions (See Pre-development Conditions Exhibit)

The existing site is currently home to The Collective building and associated utilities and parking lots. An existing stormwater report has been approved by the City of Watertown in 2022 for redevelopment of this parcel. This included additions of sidewalks, repaving portions of the parking lots and adding a playground area. The south portion of the site drains to an existing dry pond and the north drains to existing storm sewer.

This report will analyze 6.691 acres of the site that was disturbed as part of the 2022 redevelopment as well as the current project. The existing site was analyzed as 3 drainage basins.

EX-1 includes the west and south portion of the site that was disturbed as part of the 2022 project as well as the current project. This includes greenspace and paved areas.

North Area – NT Disturbed includes a portion of the north side that was disturbed as part of the 2022 project. This includes greenspace and paved areas.

East Area – NT Disturbed includes a portion of the east side that was disturbed as part of the 2022 project. This includes paved and greenspace areas.

Sub-Area Name	Area (acres)	Curve Number	Time of Concentration (min)		
EX-1	5.876	72	12.8		
North Area	0.572	80	6.0		
East Area	0.243	86	6.0		
Total	6.691				

## Pre-development Conditions Summary:

## **Proposed Watershed Conditions**

The proposed site improvements include a building addition on the south side of the existing Collective building, totaling roughly 38,000 SF. Along with the building addition, the parking lots, access drive aisles and site utilities will be re-designed and constructed.

The proposed condition analyzes the same approximate 6.691 acres as the Pre-development conditions. One (1) Bio-retention basin will be constructed to manage a portion of the stormwater from the site. This will be located on the southeast portion of the site to provide the required water quality controls.



The site was split into 4 drainage areas as described below:

PR-1 includes the north, west and south portions of the site that are tributary to the bio-retention basin. This includes greenspace and paved areas.

UD-1 includes the east portion of the site that has been disturbed and leaves the site undetained. This includes greenspace, paved and roof areas

North Area NT Disturbed includes the north portion of the site that was disturbed as part of the 2022 project and leaves the site undetained. This includes paved and greenspace areas.

East Area NT Disturbed includes the east portion of the site that was disturbed as part of the 2022 project and leaves the site undetained. This includes paved and greenspace areas.

## **Proposed Conditions Summary:**

Sub-Area Name	Area (acres)	Curve Number	Time of Concentration (min)
PR-1	4.053	89	6.0
UD-1	1.824	83	6.0
North Area	0.572	80	6.0
East Area	0.243	86	6.0
Total	6.691		





#### Proposed Basin 1 – Bio-Retention Basin:

Storm Event	Elevation	Release Rate (cfs)
2-yr	808.00	8.79
10-yr	808.40	13.86
100-yr	809.35	16.15

### Water Quality and Analysis

The proposed redevelopment was modeled using the water quality software WinSLAMM (Ver. 10.5.0). The City of Watertown requires this redevelopment site to provide a 60% TSS reduction for new parking and roadway areas as well as a 30% Phosphorus reduction for the whole site.

The new pavement and roadway areas produce 1841 lbs of TSS. With 60% required to be removed, the total amount for the BMPs to be removed is 1104.6 lbs of TSS.

The proposed stormwater management feature for the site provides 1376 lbs of TSS removal which is greater than the 60% required.

The proposed stormwater management feature for the site removes approximately 46% phosphorus from the site which is greater than the 30% required.

See the *Water Quality* section for calculations that demonstrate that the site meets the 60% and 30% reduction goal.

## **Erosion Control Plan**

Approximately 4.97 acres of the existing site will be disturbed for this project. The Erosion Control Plan shows the methods and locations proposed to stabilize the site during and after the development project.

Prior to initiating construction onsite, the silt filter fence and the construction entrance tracking pad shall be installed in an effort to minimize sediment travelling offsite.

Construction activities shall be staged, as much as possible, to limit the combined disturbed area.

Upon completing the grading and swales, the erosion control matting shall be installed. Silt fencing shall be maintained throughout the construction process and repaired and replaced as needed.

Sediment tracking shall be minimized to the maximum extent practicable. Roadways are to be swept of debris at the end of each work day, as needed.

Disturbed areas shall be stabilized as soon as grading is completed. Restoration and seeding methods shall follow the landscaping plans and municipal standards.

Dust control shall be maintained onsite with the use of a water truck if substantial dust becomes airborne.

During construction, the site shall be inspected by the contractor weekly and after every 0.5" or greater rainfall to evaluate the conditions of the erosion control practices and resolve any issues. The inspections shall be documented and maintained onsite and follow Wisconsin Department of Natural Resources Requirements

After the site work has been substantially completed and the areas have become stabilized, the stormwater management structure, catch basins, and inlets and outlets shall be inspected and cleaned if necessary to remove all sediment deposits transported during construction. After all areas have been stabilized, the temporary erosion control methods should be removed permanently.

## **Operation and Maintenance**

Culverts and inlets/outlets should be visually inspected after any large event and at a minimum of once per year. The outlet control structure should also be inspected after any large event, as well as, a minimum of twice per year (remove any debris that might create a blockage, including the grate on flared end section).

A copy of inspections performed, as well as, any preventative and/or required maintenance shall be logged and kept on site or with the property owner.

#### Conclusion

The proposed stormwater management features for the Watertown YMCA have been designed to meet the requirements of the Wisconsin Department of Natural Resources and the City of Watertown with respect to stormwater quantity, quality, and erosion control.



# Watertown YMCA

Existing HydroCAD Map







# Area Listing (all nodes)

Are	a CN	Description
(acres	s)	(subcatchment-numbers)
4.07	7 61	>75% Grass cover, Good, HSG B (EX 1)
0.54	3 74	>75% Grass cover, Good, HSG C (EX-1, EX-7)
1.43	2 98	Paved parking, HSG B (EX 1)
0.14	1 98	Paved parking, HSG C (EX-1, EX-7)
0.36	7 98	Sidewalks, Good, HSG B (EX 1)
0.13	1 98	Sidewalks, Good, HSG C (EX-1, EX-7)
6.69	1 74	TOTAL AREA

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MSE 24-hr 3 2-Year Rainfall=2.67" Printed 2/22/2024 LC Page 3

Time span=11.75-23.75 hrs, dt=0.01 hrs, 1201 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

SubcatchmentEX 1: Subcat EX 1	Runoff Area=5.876 ac 30.62% Impervious Runoff Depth>0.62" Flow Length=418' Tc=12.8 min CN=72 Runoff=4.54 cfs 0.302 af
SubcatchmentEX-1: North Area - NT	Runoff Area=0.572 ac 26.40% Impervious Runoff Depth>0.98" Flow Length=139' Tc=6.0 min CN=80 Runoff=1.07 cfs 0.047 af
SubcatchmentEX-7: East Area - NT	Runoff Area=0.243 ac 49.79% Impervious Runoff Depth>1.29" Tc=6.0 min CN=86 Runoff=0.63 cfs 0.026 af
Reach 1R: Total Existing	Inflow=5.45 cfs 0.375 af Outflow=5.45 cfs 0.375 af

Total Runoff Area = 6.691 ac Runoff Volume = 0.375 af Average Runoff Depth = 0.67" 69.04% Pervious = 4.620 ac 30.96% Impervious = 2.071 ac

## Summary for Subcatchment EX 1: Subcat EX 1

[73] Warning: Peak may fall outside time span

Runoff = 4.54 cfs @ 12.23 hrs, Volume= 0.302 af, Depth> 0.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 2-Year Rainfall=2.67"

_	Area	(ac)	CN	Desc	cription		
	4.	077	61	>75%	% Grass co	over, Good	, HSG B
	1.	432	98	Pave	ed parking	, HSG B	
	0.	367	98	Side	walks, Go	od, HSG B	
	5.	876	72	Weig	phted Aver	age	
	4.	077		69.3	8% Pervio	us Area	
	1.	799		30.6	2% Imperv	/ious Area	
	Тс	Length	า 3	Slope	Velocity	Capacity	Description
_	(min)	(feet	)	(ft/ft)	(ft/sec)	(cfs)	
	11.4	100	) ().	.0435	0.15		Sheet Flow,
							Grass: Dense n= 0.240 P2= 2.70"
	1.4	318	<b>3</b> 0.	.0578	3.87		Shallow Concentrated Flow,
_							Unpaved Kv= 16.1 fps
	40.0						

12.8 418 Total

## Subcatchment EX 1: Subcat EX 1



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## Summary for Subcatchment EX-1: North Area - NT Disturbed

[73] Warning: Peak may fall outside time span

Runoff 1.07 cfs @ 12.14 hrs, Volume= 0.047 af, Depth> 0.98" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 2-Year Rainfall=2.67"

Area (	ac) C	N De	scription		
0.4	421	74 >7	5% Grass c	over, Good	, HSG C
0.0	)94 9	98 Pa	ved parking	, HSG C	
0.0	030	98 Sic	ewalks, Go	od, HSG C	
0.0	)27 9	98 Sic	ewalks, Go	od, HSG C	
0.5	572 8	30 We	ighted Ave	rage	
0.4	421	73.	60% Pervic	ous Area	
0.1	151	26.	40% Imper	vious Area	
Tc	Length	Slope	e Velocity	Capacity	Description
(min)	(feet)	(ft/ft	(ft/sec)	(cfs)	
1.3	100	0.0196	<b>1.25</b>		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.70"
0.4	39	0.006′	1.59		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps

1.7 139 Total, Increased to minimum Tc = 6.0 min

## Subcatchment EX-1: North Area - NT Disturbed



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## Summary for Subcatchment EX-7: East Area - NT Disturbed

[73] Warning: Peak may fall outside time span

Runoff = 0.63 cfs @ 12.13 hrs, Volume= 0.026 af, Depth> 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 2-Year Rainfall=2.67"

_	Area (ac)	CN	Description	
	0.122	74	>75% Grass cover, Good, HSG C	
	0.047	98	Paved parking, HSG C	
	0.060	98	Sidewalks, Good, HSG C	
	0.014	98	Sidewalks, Good, HSG C	
	0.243	86	Weighted Average	
	0.122		50.21% Pervious Area	
	0.121		49.79% Impervious Area	
	Tc Leng	gth 🖇	Slope Velocity Capacity Description	
	(min) (fee	et)	(ft/ft) (ft/sec) (cfs)	

6.0

## Subcatchment EX-7: East Area - NT Disturbed

**Direct Entry**,



MSE 24-hr 3 2-Year Rainfall=2.67" Printed 2/22/2024 LC Page 7

# Summary for Reach 1R: Total Existing

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area	a =	6.691 ac, 3	30.96% Impe	ervious,	Inflow De	epth > 0	.67" for	2-Yea	ar event	
Inflow	=	5.45 cfs @	12.21 hrs,	Volume	=	0.375 af				
Outflow	=	5.45 cfs @	12.21 hrs,	Volume	=	0.375 af	, Atten=	0%, La	ag= 0.0 mir	n

Routing by Stor-Ind method, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs



# **Reach 1R: Total Existing**

MSE 24-hr 3 10-Year Rainfall=3.77" Printed 2/22/2024 LLC Page 8

Time span=11.75-23.75 hrs, dt=0.01 hrs, 1201 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

SubcatchmentEX 1: Subcat EX 1	Runoff Area=5.876 ac 30.62% Impervious Runoff Depth>1.29" Flow Length=418' Tc=12.8 min CN=72 Runoff=10.39 cfs 0.630 af
SubcatchmentEX-1: North Area - NT	Runoff Area=0.572 ac 26.40% Impervious Runoff Depth>1.75" Flow Length=139' Tc=6.0 min CN=80 Runoff=1.98 cfs 0.083 af
SubcatchmentEX-7: East Area - NT	Runoff Area=0.243 ac 49.79% Impervious Runoff Depth>2.11" Tc=6.0 min CN=86 Runoff=1.04 cfs 0.043 af
Reach 1R: Total Existing	Inflow=12.11 cfs 0.757 af Outflow=12.11 cfs 0.757 af

Total Runoff Area = 6.691 ac Runoff Volume = 0.757 af Average Runoff Depth = 1.36" 69.04% Pervious = 4.620 ac 30.96% Impervious = 2.071 ac

MSE 24-hr 3 10-Year Rainfall=3.77" Printed 2/22/2024 LLC Page 9

## Summary for Subcatchment EX 1: Subcat EX 1

[73] Warning: Peak may fall outside time span

Runoff = 10.39 cfs @ 12.22 hrs, Volume= 0.630 af, Depth> 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 10-Year Rainfall=3.77"

_	Area	(ac)	CN	Desc	cription		
	4.	077	61	>75%	% Grass co	over, Good	, HSG B
	1.	432	98	Pave	ed parking	, HSG B	
	0.	367	98	Side	walks, Go	od, HSG B	
	5.	876	72	Weig	ghted Aver	age	
	4.	077		69.3	, 8% Pervio	us Area	
	1.	799		30.6	2% Imperv	∕ious Area	
	Тс	Length	า 3	Slope	Velocity	Capacity	Description
_	(min)	(feet	)	(ft/ft)	(ft/sec)	(cfs)	
	11.4	100	) ()	.0435	0.15		Sheet Flow,
							Grass: Dense n= 0.240 P2= 2.70"
	1.4	318	30.	.0578	3.87		Shallow Concentrated Flow,
							Unpaved Kv= 16.1 fps
	10.0		_				

12.8 418 Total

## Subcatchment EX 1: Subcat EX 1



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## Summary for Subcatchment EX-1: North Area - NT Disturbed

[73] Warning: Peak may fall outside time span

Runoff 1.98 cfs @ 12.13 hrs, Volume= 0.083 af, Depth> 1.75" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 10-Year Rainfall=3.77"

Area	(ac) (	CN	Desc	cription		
0.4	421	74	>75%	6 Grass co	over, Good,	HSG C
0.	094	98	Pave	ed parking	, HSG C	
0.	030	98	Side	walks, Go	od, HSG C	
0.	027	98	Side	walks, Go	od, HSG C	
0.	572	80	Weig	hted Aver	age	
0.4	421		73.6	0% Pervio	us Area	
0.	151		26.40	0% Imperv	∕ious Area	
Tc	Length	S	lope	Velocity	Capacity	Description
(min)	(feet)	(	[ft/ft]	(ft/sec)	(cfs)	
1.3	100	0.0	)196	1.25		Sheet Flow,
						Smooth surfaces n= 0.011 P2= 2.70"
0.4	39	0.0	061	1.59		Shallow Concentrated Flow,
						Paved Kv= 20.3 fps

1.7 139 Total, Increased to minimum Tc = 6.0 min

## Subcatchment EX-1: North Area - NT Disturbed



## Summary for Subcatchment EX-7: East Area - NT Disturbed

[73] Warning: Peak may fall outside time span

Runoff = 1.04 cfs @ 12.13 hrs, Volume= 0.043 af, Depth> 2.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 10-Year Rainfall=3.77"

Area (ac)	CN	Description
0.122	74	>75% Grass cover, Good, HSG C
0.047	98	Paved parking, HSG C
0.060	98	Sidewalks, Good, HSG C
0.014	98	Sidewalks, Good, HSG C
0.243	86	Weighted Average
0.122		50.21% Pervious Area
0.121		49.79% Impervious Area
Tc Leng (min) (fee	gth S et)	Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)

6.0

Direct Entry,

## Subcatchment EX-7: East Area - NT Disturbed



MSE 24-hr 3 10-Year Rainfall=3.77" Printed 2/22/2024 LLC Page 11

MSE 24-hr 3 10-Year Rainfall=3.77" Printed 2/22/2024 LLC Page 12

# Summary for Reach 1R: Total Existing

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area	a =	6.691 ac, 3	30.96% Imp	ervious,	Inflow D	)epth >	1.36	6" for 1	0-Year	event
Inflow	=	12.11 cfs @	12.19 hrs,	Volume	=	0.757	af			
Outflow	=	12.11 cfs @	12.19 hrs,	Volume	=	0.757	af, A	Atten= 0%	5, Lag=	0.0 min

Routing by Stor-Ind method, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs



# **Reach 1R: Total Existing**

MSE 24-hr 3 100-Year Rainfall=5.92" Printed 2/22/2024 is LLC Page 13

Time span=11.75-23.75 hrs, dt=0.01 hrs, 1201 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

SubcatchmentEX 1: Subcat EX 1	Runoff Area=5.876 ac 30.62% Impervious Runoff Depth>2.80" Flow Length=418' Tc=12.8 min CN=72 Runoff=23.99 cfs 1.370 af
SubcatchmentEX-1: North Area - NT	Runoff Area=0.572 ac 26.40% Impervious Runoff Depth>3.34" Flow Length=139' Tc=6.0 min CN=80 Runoff=3.87 cfs 0.159 af
SubcatchmentEX-7: East Area - NT	Runoff Area=0.243 ac 49.79% Impervious Runoff Depth>3.73" Tc=6.0 min CN=86 Runoff=1.86 cfs 0.076 af
Reach 1R: Total Existing	Inflow=27.42 cfs 1.605 af Outflow=27.42 cfs 1.605 af

Total Runoff Area = 6.691 ac Runoff Volume = 1.605 af Average Runoff Depth = 2.88" 69.04% Pervious = 4.620 ac 30.96% Impervious = 2.071 ac

MSE 24-hr 3 100-Year Rainfall=5.92" Printed 2/22/2024 s LLC Page 14

## Summary for Subcatchment EX 1: Subcat EX 1

[73] Warning: Peak may fall outside time span

Runoff = 23.99 cfs @ 12.21 hrs, Volume= 1.370 af, Depth> 2.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 100-Year Rainfall=5.92"

	Area	(ac) (	CN	Desc	cription		
4.077 61 >75% Grass cover, Good,					6 Grass co	over, Good	, HSG B
	1.	432	98	Pave	ed parking	, HSG B	
	0.	367	98	Side	walks, Go	od, HSG B	
	5.	876	72	Weig	hted Aver	age	
4.077 69.38% Pervious					8% Pervio	us Area	
1.799			30.62	2% Imperv	ious Area		
	Тс	Length	i S	Slope	Velocity	Capacity	Description
_	(min)	(feet)		(ft/ft)	(ft/sec)	(cfs)	
	11.4	100	0.0	0435	0.15		Sheet Flow,
							Grass: Dense n= 0.240 P2= 2.70"
	1.4	318	0.	0578	3.87		Shallow Concentrated Flow,
_							Unpaved Kv= 16.1 fps
	40.0	440					

12.8 418 Total

## Subcatchment EX 1: Subcat EX 1



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## Summary for Subcatchment EX-1: North Area - NT Disturbed

[73] Warning: Peak may fall outside time span

Runoff 3.87 cfs @ 12.13 hrs, Volume= 0.159 af, Depth> 3.34" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 100-Year Rainfall=5.92"

Area (	(ac) (	CN	Desc	cription					
0.4	421	74	>75%	% Grass co	over, Good,	HSG C			
0.	094	98	Paved parking, HSG C						
0.030 98 Sidewalks, Good, HSG C					od, HSG C				
0.	027	98	Side	walks, Go	od, HSG C				
0.	572	80	Weig	ghted Aver	age				
0.421 73.60% Pervious Area									
0.151 26.40% Impervious Area									
Tc	Length	S	lope	Velocity	Capacity	Description			
(min)	(feet)	(	ft/ft)	(ft/sec)	(cfs)				
1.3	100	0.0	196	1.25		Sheet Flow,			
						Smooth surfaces n= 0.011 P2= 2.70"			
0.4	39	0.0	061	1.59		Shallow Concentrated Flow,			
						Paved Kv= 20.3 fps			

1.7 139 Total, Increased to minimum Tc = 6.0 min

## Subcatchment EX-1: North Area - NT Disturbed


### Summary for Subcatchment EX-7: East Area - NT Disturbed

[73] Warning: Peak may fall outside time span

Runoff = 1.86 cfs @ 12.13 hrs, Volume= 0.076 af, Depth> 3.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs MSE 24-hr 3 100-Year Rainfall=5.92"

	Area (ac)	CN	Description					
	0.122	74	>75% Grass c	over, Good	, HSG C			
	0.047	98	Paved parking	j, HSG C				
	0.060	98	Sidewalks, Go	Sidewalks, Good, HSG C				
	0.014	98	Sidewalks, Go	od, HSG C				
	0.243	86	Weighted Ave	rage				
0.122 50.21% Pervious Area				ous Area				
	0.121		49.79% Imper	vious Area				
	<u> </u>			<b>a</b> 14	<b>—</b> • • • •			
	Ic Leng	th S	Slope Velocity	Capacity	Description			
	<u>(</u> min) (fee	et)	(ft/ft) (ft/sec)	(cfs)				



Direct Entry,





MSE 24-hr 3 100-Year Rainfall=5.92" Printed 2/22/2024 is LLC Page 16

### Summary for Reach 1R: Total Existing

[40] Hint: Not Described (Outflow=Inflow)

Inflow Are	a =	6.691 ac, 3	30.96% Impe	ervious,	Inflow Depth	i > 2.8	38" for	100-Year event
Inflow	=	27.42 cfs @	12.19 hrs,	Volume	= 1.6	605 af		
Outflow	=	27.42 cfs @	12.19 hrs,	Volume	= 1.6	605 af,	Atten= 0	%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 11.75-23.75 hrs, dt= 0.01 hrs



# **Reach 1R: Total Existing**





# Watertown YMCA

Proposed HydroCAD Map





Printed 2/22/2024

### Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
1.731	61	>75% Grass cover, Good, HSG B (PR-1, UD-1)
0.543	74	>75% Grass cover, Good, HSG C (EX-1, EX-7)
2.840	98	Paved parking, HSG B (PR-1, UD-1)
0.141	98	Paved parking, HSG C (EX-1, EX-7)
0.887	98	Roofs, HSG B (PR-1, UD-1)
0.418	98	Sidewalks, Good, HSG B (PR-1, UD-1)
0.131	98	Sidewalks, Good, HSG C (EX-1, EX-7)
6.691	86	TOTAL AREA

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment EX-1: North Area - NT	Runoff Area=0.572 ac 26.40% Impervious Runoff Depth>1.09" low Length=139' Tc=6.0 min CN=80 Runoff=1.17 cfs 0.052 af
SubcatchmentEX-7: East Area - NT	Runoff Area=0.243 ac 49.79% Impervious Runoff Depth>1.48" Tc=6.0 min CN=86 Runoff=0.67 cfs 0.030 af
SubcatchmentPR-1: Subcat PR-1	Runoff Area=4.052 ac 75.23% Impervious Runoff Depth>1.71" Tc=0.0 min CN=89 Runoff=14.82 cfs 0.578 af
SubcatchmentUD-1: Subcat UD-1	Runoff Area=1.824 ac 60.10% Impervious Runoff Depth>1.28" Tc=0.0 min CN=83 Runoff=5.28 cfs 0.195 af
Reach 1R: Total Existing	Inflow=15.14 cfs 0.838 af Outflow=15.14 cfs 0.838 af
Pond 1P: Bio-Retention Basin	Peak Elev=808.00' Storage=7,993 cf Inflow=14.82 cfs 0.578 af Outflow=8.79 cfs 0.561 af

Total Runoff Area = 6.691 ac Runoff Volume = 0.854 af Average Runoff Depth = 1.53" 33.99% Pervious = 2.274 ac 66.01% Impervious = 4.417 ac

#### Summary for Subcatchment EX-1: North Area - NT Disturbed

Runoff = 1.17 cfs @ 12.14 hrs, Volume= 0.052 af, Depth> 1.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 2-Year Rainfall=2.79"

 Area	(ac)	CN	Des	cription		
0.	421	74	>75	% Grass co	over, Good,	HSG C
0.	094	98	Pav	ed parking	, HSG C	
0.	030	98	Side	ewalks, Go	od, HSG C	
 0.	027	98	Side	ewalks, Go	od, HSG C	
 0.	572	80	Wei	ighted Aver	age	
0.4	421		73.6	50% Pervio	us Area	
0.	151		26.4	10% Imperv	/ious Area	
-					<b>A</b>	
	Lengt	n t	slope	Velocity	Capacity	Description
 (min)	(feet	)	(ft/ft)	(ft/sec)	(CfS)	
1.3	100	0.	0196	1.25		Sheet Flow,
						Smooth surfaces n= 0.011 P2= 2.70"
0.4	39	90.	0061	1.59		Shallow Concentrated Flow,
						Paved Kv= 20.3 fps
1.7	139	9 То	otal, I	Increased t	o minimum	Tc = 6.0 min

#### Subcatchment EX-1: North Area - NT Disturbed



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MSE 24-hr 3 2-Year Rainfall=2.79"

Runoff = 0.67 cfs @ 12.13 hrs, Volume= 0.030 af, Depth> 1.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 2-Year Rainfall=2.79"

	Area (ac)	CN	Description			
	0.122	74	>75% Grass co	over, Good,	HSG C	
	0.047	98	Paved parking	, HSG C		
	0.060	98	Sidewalks, Go	od, HSG C		
	0.014	98	Sidewalks, Go	od, HSG C		
	0.243	86	Weighted Aver	age		
	0.122		50.21% Pervio	us Area		
	0.121		49.79% Imperv	ious Area		
	Tc Leng	gth S	Slope Velocity	Capacity	Description	
(	(min) (fee	et)	(ft/ft) (ft/sec)	(cfs)		
	6.0				Direct Entry,	

#### Subcatchment EX-7: East Area - NT Disturbed



### Summary for Subcatchment PR-1: Subcat PR-1

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 14.82 cfs @ 12.09 hrs, Volume= 0.578 af, Depth> 1.71"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 2-Year Rainfall=2.79"

CN	Description
61	>75% Grass cover, Good, HSG B
98	Paved parking, HSG B
98	Roofs, HSG B
98	Sidewalks, Good, HSG B
89	Weighted Average
	24.77% Pervious Area
	75.23% Impervious Area
	CN 61 98 98 98 89

### Subcatchment PR-1: Subcat PR-1



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### Summary for Subcatchment UD-1: Subcat UD-1

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff 5.28 cfs @ 12.09 hrs, Volume= 0.195 af, Depth> 1.28" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 2-Year Rainfall=2.79"

Area (ac)	CN	Description
0.728	61	>75% Grass cover, Good, HSG B
0.127	98	Paved parking, HSG B
0.877	98	Roofs, HSG B
0.092	98	Sidewalks, Good, HSG B
1.824	83	Weighted Average
0.728		39.90% Pervious Area
1.096		60.10% Impervious Area

### Subcatchment UD-1: Subcat UD-1



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### Summary for Reach 1R: Total Existing

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area	a =	6.691 ac, 6	6.01% Impe	ervious,	Inflow [	Depth >	1.50'	' for 2-Y	ear eve	nt
Inflow	=	15.14 cfs @	12.09 hrs,	Volume	=	0.838	af			
Outflow	=	15.14 cfs @	12.09 hrs,	Volume	=	0.838	af, A	tten= 0%,	Lag= 0.	.0 min

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs



# **Reach 1R: Total Existing**

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Summary for Pond 1P: Bio-Retention Basin

Inflow Area	a =	4.052 ac, 7	5.23% Impervio	ous, Inflow [	Depth >	1.71"	for 2-Yea	ar event	
Inflow	=	14.82 cfs @	12.09 hrs, Vol	lume=	0.578 a	af			
Outflow	=	8.79 cfs @	12.10 hrs, Vol	lume=	0.561 a	af, Atte	n= 41%,	Lag= 0.7 min	1
Primary	=	8.79 cfs @	12.10 hrs, Vol	lume=	0.561 a	af		-	

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 808.00' @ 12.10 hrs Surf.Area= 7,156 sf Storage= 7,993 cf

Plug-Flow detention time= 45.9 min calculated for 0.561 af (97% of inflow) Center-of-Mass det. time= 30.2 min (820.6 - 790.4)

Volume	Inve	rt Avai	I.Storage	Storage Descrip	tion			
#1	804.4	9' :	30,111 cf	Custom Stage I	Data (Prismatic)List	ed below (Recalc)		
Elevatio	<b>.</b>	Surf Aroa	Voide	Inc Store	Cum Store			
	лі , ,+)		voius (%)	(oubic foot)	(oubic foot)			
	() 10	<u>(sq-it)</u>	(%)					
804.4	19	3,588	0.0	0	0			
804.5	50	3,588	33.0	12	12			
805.5	50	3,588	33.0	1,184	1,196			
805.5	51	3,588	27.0	10	1,206			
807.0	00	3,588	27.0	1,443	2,649			
807.0	)1	3,588	100.0	36	2,685			
808.0	00	7,163	100.0	5,322	8,007			
809.0	00	8,431	100.0	7,797	15,804			
810.0	00	9,756	100.0	9,094	24,897			
810.5	50	11,099	100.0	5,214	30,111			
Davias	Dentine	L.s.						
Device	Routing	In	vert Ou	liet Devices				
#1	Primary	805	.00' <b>18.</b>	0" Round Culver	t			
			L=	123.0' RCP, squa	ire edge headwall, k	Ke= 0.500		
			Inle	et / Outlet Invert= 8	05.00'/791.00' S=	0.1138 '/' Cc= 0.900		
			n=	0.010 PVC, smoot	th interior, Flow Area	a= 1.77 sf		
#2	Primary	809	.50' <b>5.0</b>	long x 5.0' brea	dth Broad-Crested	Rectangular Weir		
			Hea	ad (feet) 0.20 0.40	0.60 0.80 1.00 1	.20 1.40 1.60 1.80 2.00		
			2.5	0 3.00 3.50 4.00	4.50 5.00 5.50			
			Co	ef. (English) 2.34	2.50 2.70 2.68 2.6	8 2.66 2.65 2.65 2.65		
			2.6	5 2.67 2.66 2.68	2.70 2.74 2.79 2.8	38		
#3	Device 1	805	.00' <b>6.0</b>	<b>6 0" Vert Orifice/Grate</b> C= 0.600				
#4	Device 1	807	50' <b>24</b>	0" Horiz, Orifice/0	Grate C= 0.600			
			Lim	nited to weir flow at	low heads			
D	0.4Fla	Max-0 74		10 hm 1114/-000 C		۱ ۱		

**Primary OutFlow** Max=8.74 cfs @ 12.10 hrs HW=808.00' (Free Discharge)

-1=Culvert (Passes 8.74 cfs of 12.75 cfs potential flow)

-3=Orifice/Grate (Orifice Controls 1.57 cfs @ 7.98 fps)

-4=Orifice/Grate (Weir Controls 7.18 cfs @ 2.30 fps)

2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond 1P: Bio-Retention Basin



Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

SubcatchmentEX-1: North Area - NT	Runoff Area=0.572 ac 26.40% Impervious Runoff Depth>1.98" Flow Length=139' Tc=6.0 min CN=80 Runoff=2.11 cfs 0.095 af
SubcatchmentEX-7: East Area - NT	Runoff Area=0.243 ac 49.79% Impervious Runoff Depth>2.48" Tc=6.0 min CN=86 Runoff=1.10 cfs 0.050 af
SubcatchmentPR-1: Subcat PR-1	Runoff Area=4.052 ac   75.23% Impervious   Runoff Depth>2.76" Tc=0.0 min   CN=89   Runoff=22.92 cfs   0.931 af
SubcatchmentUD-1: Subcat UD-1	Runoff Area=1.824 ac 60.10% Impervious Runoff Depth>2.23" Tc=0.0 min CN=83 Runoff=8.84 cfs 0.338 af
Reach 1R: Total Existing	Inflow=25.52 cfs 1.397 af Outflow=25.52 cfs 1.397 af
Pond 1P: Bio-Retention Basin	Peak Elev=808.40' Storage=10,988 cf Inflow=22.92 cfs 0.931 af Outflow=13.86 cfs 0.914 af

Total Runoff Area = 6.691 ac Runoff Volume = 1.414 af Average Runoff Depth = 2.54" 33.99% Pervious = 2.274 ac 66.01% Impervious = 4.417 ac

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Summary for Subcatchment EX-1: North Area - NT Disturbed

Runoff 2.11 cfs @ 12.13 hrs, Volume= 0.095 af, Depth> 1.98" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 10-Year Rainfall=3.93"

 Area	(ac)	CN	Des	cription		
0.	421	74	>75	% Grass co	over, Good,	HSG C
0.	094	98	Pav	ed parking	, HSG C	
0.	030	98	Side	ewalks, Go	od, HSG C	
 0.	027	98	Side	ewalks, Go	od, HSG C	
 0.	572	80	Wei	ighted Aver	age	
0.4	421		73.6	50% Pervio	us Area	
0.	151		26.4	10% Imperv	/ious Area	
-					<b>A</b>	
	Lengt	n t	slope	Velocity	Capacity	Description
 (min)	(feet	)	(ft/ft)	(ft/sec)	(CfS)	
1.3	100	0.	0196	1.25		Sheet Flow,
						Smooth surfaces n= 0.011 P2= 2.70"
0.4	39	90.	0061	1.59		Shallow Concentrated Flow,
						Paved Kv= 20.3 fps
1.7	139	9 То	otal, I	Increased t	o minimum	Tc = 6.0 min

#### Subcatchment EX-1: North Area - NT Disturbed



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### Summary for Subcatchment EX-7: East Area - NT Disturbed

Runoff 1.10 cfs @ 12.13 hrs, Volume= 0.050 af, Depth> 2.48" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 10-Year Rainfall=3.93"

	Area (ac)	CN	Description			
	0.122	74	>75% Grass co	over, Good,	HSG C	
	0.047	98	Paved parking	, HSG C		
	0.060	98	Sidewalks, Go	od, HSG C		
	0.014	98	Sidewalks, Go	od, HSG C		
	0.243	86	Weighted Aver	age		
	0.122		50.21% Pervio	us Area		
	0.121		49.79% Imperv	ious Area		
				_		
	Tc Leng	gth S	Slope Velocity	Capacity	Description	
(	min) (fe	et)	(ft/ft) (ft/sec)	(cfs)		
	6.0				Direct Entry,	

### Subcatchment EX-7: East Area - NT Disturbed



Summary for Subcatchment PR-1: Subcat PR-1

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 22.92 cfs @ 12.09 hrs, Volume= 0.931 af, Depth> 2.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 10-Year Rainfall=3.93"

Area (ac)	CN	Description
1.004	61	>75% Grass cover, Good, HSG B
2.713	98	Paved parking, HSG B
0.010	98	Roofs, HSG B
0.326	98	Sidewalks, Good, HSG B
4.052	89	Weighted Average
1.004		24.77% Pervious Area
3.048		75.23% Impervious Area

### Subcatchment PR-1: Subcat PR-1



MSE 24-hr 3 10-Year Rainfall=3.93" Printed 2/22/2024 LLC Page 14

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Summary for Subcatchment UD-1: Subcat UD-1

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

8.84 cfs @ 12.09 hrs, Volume= Runoff 0.338 af, Depth> 2.23" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 10-Year Rainfall=3.93"

Area (ac)	CN	Description
0.728	61	>75% Grass cover, Good, HSG B
0.127	98	Paved parking, HSG B
0.877	98	Roofs, HSG B
0.092	98	Sidewalks, Good, HSG B
1.824	83	Weighted Average
0.728		39.90% Pervious Area
1.096		60.10% Impervious Area

### Subcatchment UD-1: Subcat UD-1



### Summary for Reach 1R: Total Existing

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area	a =	6.691 ac, 6	6.01% Imp	ervious,	Inflow [	Depth >	2.5	1" for	10-Y	'ear e	vent
Inflow	=	25.52 cfs @	12.09 hrs,	Volume	=	1.397	af				
Outflow	=	25.52 cfs @	12.09 hrs,	Volume	=	1.397	af,	Atten= 0	9%, L	_ag= (	0.0 min

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs



# **Reach 1R: Total Existing**

#### Summary for Pond 1P: Bio-Retention Basin

Inflow Area	a =	4.052 ac, 7	5.23% Impe	ervious,	Inflow I	Depth >	2.76"	for 10-Y	'ear event	
Inflow	=	22.92 cfs @	12.09 hrs,	Volume	=	0.931	af			
Outflow	=	13.86 cfs @	12.10 hrs,	Volume	=	0.914	af, Att	en= 40%,	Lag= 0.7 min	ı
Primary	=	13.86 cfs @	12.10 hrs,	Volume	=	0.914	af			

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 808.40' @ 12.10 hrs Surf.Area= 7,673 sf Storage= 10,988 cf

Plug-Flow detention time= 36.6 min calculated for 0.913 af (98% of inflow) Center-of-Mass det. time= 25.9 min (806.7 - 780.8)

Inve	rt Avai	I.Stora	ge Storage Descr	iption	
804.49	9'	30,111	cf Custom Stage	e Data (Prismatio	:)Listed below (Recalc)
n s	Surf.Area	Voids	Inc.Store	Cum.Store	
t)	(sq-ft)	(%)	(cubic-feet)	(cubic-feet)	
.9	3,588	0.0	0	0	
0	3,588	33.0	12	12	
60	3,588	33.0	1,184	1,196	
51	3,588	27.0	10	1,206	
0	3,588	27.0	1,443	2,649	
)1	3,588	100.0	36	2,685	
0	7,163	100.0	5,322	8,007	
0	8,431	100.0	7,797	15,804	
0	9,756	100.0	9,094	24,897	
0	11,099	100.0	5,214	30,111	
Routing	In	vert (	Dutlet Devices		
Primary	805	5.00' 1	8.0" Round Culv	ert	
•		L	.= 123.0' RCP, sq	uare edge headwa	all, Ke= 0.500
		1	nlet / Outlet Invert=	805.00' / 791.00'	S= 0.1138 '/' Cc= 0.900
		r	n= 0.010 PVC, smo	ooth interior, Flow	/ Area= 1.77 sf
Primary	809	.50' <b>5</b>	5.0' long x 5.0' bre	adth Broad-Cres	sted Rectangular Weir
		F	lead (feet) 0.20 0	.40 0.60 0.80 1.	00 1.20 1.40 1.60 1.80 2.00
		2	2.50 3.00 3.50 4.0	0 4.50 5.00 5.5	0
		(	Coef. (English) 2.34	4 2.50 2.70 2.68	2.68 2.66 2.65 2.65 2.65
<b>.</b>		2	2.65 2.67 2.66 2.6	58 2.70 2.74 2.79	9 2.88
Device 1	805	0.00' <b>6</b>	5.0" Vert. Orifice/G	irate C= 0.600	
Device 1	807	.50' 2	4.0" Horiz. Orifice	<b>Grate</b> C= 0.600	)
		L	Imited to weir flow	at low neads	
	Inve 804.44 90 50 50 50 50 50 11 10 10 10 10 10 10 10 10 10 10 10 10	Invert         Avai           804.49'	Invert         Avail.Storag           804.49'         30,111           on         Surf.Area         Voids           1         (sq-ft)         (%)           9         3,588         0.0           30         3,588         33.0           30         3,588         33.0           30         3,588         33.0           30         3,588         33.0           30         3,588         37.0           30         3,588         27.0           30         3,588         27.0           30         3,588         100.0           30         7,163         100.0           9         7,763         100.0           9         7,756         100.0           9         11,099         100.0           9         7,756         100.0           9         805.00'         1           9         809.50'         5           9         809.50'         5           9         805.00'         6           10         807.50'         2	Invert         Avail.Storage         Storage Descr           804.49'         30,111 cf         Custom Stage           on         Surf.Area         Voids         Inc.Store           (sq-ft)         (%)         (cubic-feet)           9         3,588         0.0         0           90         3,588         33.0         12           90         3,588         33.0         1,184           11         3,588         27.0         10           90         3,588         27.0         104           10         3,588         27.0         1443           11         3,588         100.0         5,322           90         8,431         100.0         7,797           90         9,756         100.0         9,094           90         11,099         100.0         5,214           Routing         Invert         Outlet Devices           Primary         805.00' <b>18.0''' Round Culve</b> L= 123.0'         RCP, sq         Inlet / Outlet Invert=           n= 0.010         PVC, smode         Head (feet)         0.20           2.50         3.00         3.50         4.0 <t< td=""><td>Invert         Avail.Storage         Storage Description           804.49'         30,111 cf         Custom Stage Data (Prismatic           an         Surf.Area         Voids         Inc.Store         Cum.Store           10         (sq-ft)         (%)         (cubic-feet)         (cubic-feet)           9         3,588         0.0         0         0           90         3,588         33.0         12         12           10         3,588         33.0         1,184         1,196           11         3,588         27.0         10         1,206           10         3,588         27.0         1,443         2,649           11         3,588         100.0         5,322         8,007           10         8,431         100.0         7,797         15,804           10         9,756         100.0         9,094         24,897           10         11,099         100.0         5,214         30,111           Routing         Invert         Outlet Devices           Primary         805.00'         <b>18.0'' Round Culvert</b>         L= 123.0' RCP, square edge headway Inlet / Outlet Invert= 805.00' / 791.00'           n= 0.010         PVC, smo</td></t<>	Invert         Avail.Storage         Storage Description           804.49'         30,111 cf         Custom Stage Data (Prismatic           an         Surf.Area         Voids         Inc.Store         Cum.Store           10         (sq-ft)         (%)         (cubic-feet)         (cubic-feet)           9         3,588         0.0         0         0           90         3,588         33.0         12         12           10         3,588         33.0         1,184         1,196           11         3,588         27.0         10         1,206           10         3,588         27.0         1,443         2,649           11         3,588         100.0         5,322         8,007           10         8,431         100.0         7,797         15,804           10         9,756         100.0         9,094         24,897           10         11,099         100.0         5,214         30,111           Routing         Invert         Outlet Devices           Primary         805.00' <b>18.0'' Round Culvert</b> L= 123.0' RCP, square edge headway Inlet / Outlet Invert= 805.00' / 791.00'           n= 0.010         PVC, smo

**Primary OutFlow** Max=13.85 cfs @ 12.10 hrs HW=808.40' (Free Discharge)

**1=Culvert** (Inlet Controls 13.85 cfs @ 7.84 fps)

**3=Orifice/Grate** (Passes < 1.68 cfs potential flow)

**4=Orifice/Grate** (Passes < 14.35 cfs potential flow)

-2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond 1P: Bio-Retention Basin



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Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

SubcatchmentEX-1: North Area - NT	Runoff Area=0.572 ac 26.40% Impervious Runoff Depth>3.95" Flow Length=139' Tc=6.0 min CN=80 Runoff=4.12 cfs 0.188 af
SubcatchmentEX-7: East Area - NT	Runoff Area=0.243 ac 49.79% Impervious Runoff Depth>4.59" Tc=6.0 min CN=86 Runoff=1.97 cfs 0.093 af
SubcatchmentPR-1: Subcat PR-1	Runoff Area=4.052 ac   75.23% Impervious   Runoff Depth>4.92" Tc=0.0 min   CN=89   Runoff=38.85 cfs   1.661 af
SubcatchmentUD-1: Subcat UD-1	Runoff Area=1.824 ac 60.10% Impervious Runoff Depth>4.27" Tc=0.0 min CN=83 Runoff=16.07 cfs 0.649 af
Reach 1R: Total Existing	Inflow=37.64 cfs 2.573 af Outflow=37.64 cfs 2.573 af
Pond 1P: Bio-Retention Basin	Peak Elev=809.35' Storage=18,866 cf Inflow=38.85 cfs 1.661 af Outflow=16.15 cfs 1.643 af

Total Runoff Area = 6.691 ac Runoff Volume = 2.591 af Average Runoff Depth = 4.65" 33.99% Pervious = 2.274 ac 66.01% Impervious = 4.417 ac

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Summary for Subcatchment EX-1: North Area - NT Disturbed

Runoff 4.12 cfs @ 12.13 hrs, Volume= 0.188 af, Depth> 3.95" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 100-Year Rainfall=6.19"

	Area	(ac)	CN	Des	cription		
	0.	421	74	>75	% Grass co	over, Good,	HSG C
	0.	094	98	Pav	ed parking	, HSG C	
	0.	030	98	Side	ewalks, Go	od, HSG C	
	0.	027	98	Side	ewalks, Go	od, HSG C	
_	0.	572	80	Wei	ghted Aver	age	
	0.4	421		73.6	50% Pervio	us Area	
	0.	151		26.4	10% Imperv	/ious Area	
	Tc (min)	Lengtl (feet	n 8 )	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	1.3	100	) ().	0196	1.25		Sheet Flow,
	0.4	39	90.	0061	1.59		Smooth surfaces n= 0.011 P2= 2.70" Shallow Concentrated Flow, Paved Kv= 20.3 fps
	1.7	139	Э То	otal,	Increased t	o minimum	Tc = 6.0 min

#### Subcatchment EX-1: North Area - NT Disturbed



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### Summary for Subcatchment EX-7: East Area - NT Disturbed

Runoff 1.97 cfs @ 12.13 hrs, Volume= 0.093 af, Depth> 4.59" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 100-Year Rainfall=6.19"

 Area (ac)	CN	Description			
0.122	74	>75% Grass co	over, Good,	HSG C	
0.047	98	Paved parking	, HSG C		
0.060	98	Sidewalks, Go	od, HSG C		
 0.014	98	Sidewalks, Go	od, HSG C		
 0.243	86	Weighted Aver	age		
0.122		50.21% Pervio	us Area		
0.121		49.79% Imperv	/ious Area		
Tc Leng	ith S	Slope Velocity	Capacity	Description	
 (min) (fee	et)	(ft/ft) (ft/sec)	(cfs)		
6.0				Direct Entry,	

### Subcatchment EX-7: East Area - NT Disturbed



### Summary for Subcatchment PR-1: Subcat PR-1

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 38.85 cfs @ 12.09 hrs, Volume= 1.661 af, Depth> 4.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 100-Year Rainfall=6.19"

Area (ac)	CN	Description
1.004	61	>75% Grass cover, Good, HSG B
2.713	98	Paved parking, HSG B
0.010	98	Roofs, HSG B
0.326	98	Sidewalks, Good, HSG B
4.052	89	Weighted Average
1.004		24.77% Pervious Area
3.048		75.23% Impervious Area

### Subcatchment PR-1: Subcat PR-1



### Summary for Subcatchment UD-1: Subcat UD-1

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 16.07 cfs @ 12.09 hrs, Volume= 0.649 af, Depth> 4.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs MSE 24-hr 3 100-Year Rainfall=6.19"

Area (ac)	CN	Description
0.728	61	>75% Grass cover, Good, HSG B
0.127	98	Paved parking, HSG B
0.877	98	Roofs, HSG B
0.092	98	Sidewalks, Good, HSG B
1.824	83	Weighted Average
0.728		39.90% Pervious Area
1.096		60.10% Impervious Area

#### Subcatchment UD-1: Subcat UD-1



### Summary for Reach 1R: Total Existing

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area	a =	6.691 ac, 6	6.01% Imp	ervious,	Inflow	Depth >	4.61	" for 1	00-Yea	r event
Inflow	=	37.64 cfs @	12.09 hrs,	Volume	=	2.573	af			
Outflow	=	37.64 cfs @	12.09 hrs,	Volume	=	2.573	af, A	tten= 0%	5, Lag=	0.0 min

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs



# **Reach 1R: Total Existing**

#### Summary for Pond 1P: Bio-Retention Basin

Inflow Area	a =	4.052 ac, 7	5.23% Imperviou	us, Inflow Depth >	4.92" fo	r 100-Year event
Inflow	=	38.85 cfs @	12.09 hrs, Volu	me= 1.661	af	
Outflow	=	16.15 cfs @	12.11 hrs, Volu	me= 1.643	af, Atten=	58%, Lag= 1.1 min
Primary	=	16.15 cfs @	12.11 hrs, Volu	me= 1.643	af	

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 809.35' @ 12.11 hrs Surf.Area= 8,899 sf Storage= 18,866 cf

Plug-Flow detention time= 30.1 min calculated for 1.642 af (99% of inflow) Center-of-Mass det. time= 23.5 min (792.9 - 769.4)

Volume Invert		I.Storag	ge Storage Description					
804.4	9'	30,111	cf Custom Stage	e Data (Prismatio	c)Listed below (Recalc)			
n s	Surf.Area	Voids	Inc.Store	Cum.Store				
t)	(sq-ft)	(%)	(cubic-feet)	(cubic-feet)				
.9	3,588	0.0	0	0				
0	3,588	33.0	12	12				
60	3,588	33.0	1,184	1,196				
51	3,588	27.0	10	1,206				
0	3,588	27.0	1,443	2,649				
1	3,588	100.0	36	2,685				
0	7,163	100.0	5,322	8,007				
0	8,431	100.0	7,797	15,804				
0	9,756	100.0	9,094	24,897				
0	11,099	100.0	5,214	30,111				
Routing	In	vert (	Dutlet Devices					
Primary	805	.00' 1	18.0" Round Culvert					
-		L	.= 123.0' RCP, sq	uare edge headwa	all, Ke= 0.500			
		l	nlet / Outlet Invert=	805.00' / 791.00'	S= 0.1138 '/' Cc= 0.900			
		r	n= 0.010 PVC, smo	ooth interior, Flow	/ Area= 1.77 sf			
Primary	809	.50' 5	5.0' long x 5.0' bre	eadth Broad-Cres	sted Rectangular Weir			
		F	lead (feet) 0.20 0	.40 0.60 0.80 1.	00 1.20 1.40 1.60 1.80 2.00			
		2	2.50 3.00 3.50 4.0	0 4.50 5.00 5.5	0			
		(	Coef. (English) 2.3	4 2.50 2.70 2.68	3 2.68 2.66 2.65 2.65 2.65			
<b>.</b>		2	2.65 2.67 2.66 2.6	58 2.70 2.74 2.7	9 2.88			
Device 1	805	0.00' <b>6</b>	5.0" Vert. Orifice/G	<b>Frate</b> C= 0.600				
Device 1	807	.50' 2	4.0" Horiz. Orifice	<b>Grate</b> C= 0.600	)			
		L	Imited to weir flow	at low neads				
	Inve 804.4 90 3 9 60 60 60 11 10 10 10 10 10 10 10 10 10 10 10 10	Invert         Avai           804.49'	Invert         Avail.Storag           804.49'         30,111           on         Surf.Area         Voids           1         (sq-ft)         (%)           9         3,588         0.0           30         3,588         33.0           30         3,588         33.0           30         3,588         33.0           30         3,588         33.0           30         3,588         37.0           30         3,588         27.0           30         3,588         27.0           30         3,588         100.0           30         7,163         100.0           9         7,763         100.0           9         7,756         100.0           9         11,099         100.0           9         7,756         100.0           9         805.00'         1           9         809.50'         5           9         809.50'         5           9         805.00'         6           10         807.50'         2	Invert         Avail.Storage         Storage Descr           804.49'         30,111 cf         Custom Stage           on         Surf.Area         Voids         Inc.Store           (sq-ft)         (%)         (cubic-feet)           9         3,588         0.0         0           90         3,588         33.0         12           90         3,588         33.0         1,184           11         3,588         27.0         10           90         3,588         27.0         104           10         3,588         27.0         1,443           11         3,588         100.0         5,322           90         8,431         100.0         7,797           90         9,756         100.0         9,094           90         11,099         100.0         5,214           Routing         Invert         Outlet Devices           Primary         805.00' <b>18.0''' Round Culv</b> L= 123.0' RCP, sq           Inlet / Outlet Invert=         n= 0.010 PVC, smo         2.50 3.00 3.50 4.0         Coef. (English) 2.3           2.65 2.67 2.66 2.6         6.0'' Vert. Orifice/G         2.65 2.67 2.66 2.6         2.65 2.67 2.6	Invert         Avail.Storage         Storage Description           804.49'         30,111 cf         Custom Stage Data (Prismation)           an         Surf.Area         Voids         Inc.Store         Cum.Store           10         (sq-ft)         (%)         (cubic-feet)         (cubic-feet)           9         3,588         0.0         0         0           90         3,588         33.0         12         12           10         3,588         33.0         1,184         1,196           11         3,588         27.0         10         1,206           10         3,588         27.0         1,443         2,649           11         3,588         100.0         5,322         8,007           10         8,431         100.0         7,797         15,804           10         9,756         100.0         9,094         24,897           10         11,099         100.0         5,214         30,111           Routing         Invert         Outlet Devices           Primary         805.00' <b>18.0" Round Culvert</b> L= 123.0' RCP, square edge headw           Inlet / Outlet Invert= 805.00' / 791.00'         n= 0.010 PVC, smoo			

**Primary OutFlow** Max=16.15 cfs @ 12.11 hrs HW=809.35' (Free Discharge)

**1=Culvert** (Inlet Controls 16.15 cfs @ 9.14 fps)

**3=Orifice/Grate** (Passes < 1.91 cfs potential flow)

**4=Orifice/Grate** (Passes < 20.58 cfs potential flow)

-2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

### Pond 1P: Bio-Retention Basin



# SLAMM Pavement Only

Data file name: X:\2023\230049.00 Watertown YMCA\Disciplines\Civil\Engineering\Stormwater\SLAMM\Proposed Pavement Only.mdb WinSLAMM Version 10.5.0	Section 3, Item A.
Particulate Solids Concentration file name: C:WinSLAMM Files\v10.1 WI_AVG01.pscx Runoff Coefficient file name: C:WinSLAMM Files\VI_SL06 Dec06.rsvx Residential Street Delivery file name: C:WinSLAMM Files\WI_Com Inst Indust Dec06.std Institutional Street Delivery file name: C:WinSLAMM Files\WI_Com Inst Indust Dec06.std Commercial Street Delivery file name: C:WinSLAMM Files\WI_Com Inst Indust Dec06.std Other Urban Street Delivery file name: C:WinSLAMM Files\WI_Com Inst Indust Dec06.std Other Urban Street Delivery file name: C:WinSLAMM Files\WI_Res and Other Urban Dec06.std Freeway Street Delivery file name: C:WinSLAMM Files\WI_Res and Other Urban Dec06.std Apply Street Delivery file name: C:WinSLAMM Files\Freeway Dec06.std Source Area PSD and Peak to Average Flow Ratio File: C:WinSLAMM Files\WI_GE003.ppdx Source Area PSD and Peak to Average Flow Ratio File: C:WinSLAMM Files\NURP Source Area PSD Files.csv Cost Data file name: Seed for random number generator: -42 Study period starting date: 01/01/81 Study period ending date: 12/31/81 Start of Winter Season: 12/06 End of Winter Season: 03/28 Date: 02-22-2024 Time: 15:46:40 Site information:	on 1 East Area - NT
LU# 1 - Institutional: PR-1 Total area (ac): 2.713 13 - Paved Parking 1: 2.713 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM F	iles\NURP.cpz
LU# 2 - Institutional: North Area - NT Total area (ac): 0.094 13 - Paved Parking 1: 0.094 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM F	iles\NURP.cpz
LU# 3 - Institutional: East Area - NT Total area (ac): 0.047 13 - Paved Parking 1: 0.047 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM F	iles\NURP.cpz
LU# 4 - Institutional: UD-1 Total area (ac): 0.127 13 - Paved Parking 1: 0.127 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM F	iles\NURP.cpz

10	Connected	

				-						
		Outfall O	utput	Summary				Percent		
	Runoff Volu (cu. ft.)	me Percent R Reduc	lunoff tion	Runoff Coefficient (Rv)	Particulate S Conc. (mg	iolids F /L)	Particulate Solids Yield (Ibs)	Percent Particulate Solids Reduction		
Total of All Land Uses without Controls	22688	59	[	0.65	130.0		1841			
Outfall Total with Controls	226870 0.00 %		0%	0.65	130.0		1841	0.00 %		
Current File Output: Annualized Total After Outfall Controls	22749		in Model	Run: 1	.00		1846			
Pollutant	Concen- tration - No Controls	Concen- tration - With Controls	Concen- tration Units	Pollutant Yield - No Controls	Pollutant Yield - With Controls	Pollutan Yield Units	t Percent Yield Reduction	•		
Particulate Solids	130.0	130.0	mg/L	1841	1841	lbs	0.00 %			
Particulate Phosphorus	0.1850	0.1850 mg/L		2.620	2.620	lbs	0.00 %	_		
Print Output Summary to .csv File Print Output Summary to Text File Print Output Summary to Printer Dtal Control Practice Cos	Total Area M	odeled (ac) 381			Re	ceivin e To S	ig Water Ir Stormwater	npacts Runoff		
apital Cost N/A	_					(CWP I	mpervious Cover I	Model)		
and Cost N/A nnual Maintenance Cost N/A resent Value of All Costs N/A	_		F	Perform Outfall Flow Duration	With	out Contre	Calculated Rv bls 0.65	Approximate Urban Stream Classification Poor		

The new pavement produces 1841 lbs of TSS. The stormwater basin must remove at least 60% of the 1841 lbs which is 1104.6 lbs

Data file name: X:\2023\230049.00 Watertown YMCA\Disciplines\Civil\Engineering\Stormwater\SLAMM\Proposed.mdb Section 3. Item A. WinSLAMM Version 10.5.0 Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI AVG01.pscx Runoff Coefficient file name: C:\WinSLAMM Files\WI SL06 Dec06.rsvx Residential Street Delivery file name: C:\WinSLAMM Files\WI Res and Other Urban Dec06.std Institutional Street Delivery file name: C:\WinSLAMM Files\WI\_Com Inst Indust Dec06.std Commercial Street Delivery file name: C:\WinSLAMM Files\WI\_Com Inst Indust Dec06.std Industrial Street Delivery file name: C:\WinSLAMM Files\WI Com Inst Indust Dec06.std Other Urban Street Delivery file name: C:\WinSLAMM Files\WI\_Res and Other Urban Dec06.std Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI GEO03.ppdx Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv Cost Data file name: Seed for random number generator: -42 Study period starting date: 01/01/81 Study period ending date: 12/31/81 End of Winter Season: 03/28 Start of Winter Season: 12/06 Date: 02-22-2024 Time: 15:50:50 Site information: LU# 1 - Institutional: PR-1 Total area (ac): 4.053 1 - Roofs 1: 0.010 ac. Flat Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 13 - Paved Parking 1: 2.713 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 31 - Sidewalks 1: 0.326 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 45 - Large Landscaped Areas 1: 1.004 ac. Normal Silty PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz LU# 2 - Institutional: North Area - NT Total area (ac): 0.572 13 - Paved Parking 1: 0.094 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 31 - Sidewalks 1: 0.030 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 32 - Sidewalks 2: 0.027 ac. Disconnected Normal Silty PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 51 - Small Landscaped Areas 1: 0.421 ac. Normal Silty PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz LU# 3 - Institutional: East Area - NT Total area (ac): 0.243 13 - Paved Parking 1: 0.047 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 31 - Sidewalks 1: 0.074 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 51 - Small Landscaped Areas 1: 0.122 ac. Normal Silty PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz LU# 4 - Institutional: UD-1 Total area (ac): 1.824 1 - Roofs 1: 0.877 ac. Flat Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 13 - Paved Parking 1: 0.127 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 31 - Sidewalks 1: 0.092 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz 45 - Large Landscaped Areas 1: 0.728 ac. Normal Silty PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz Control Practice 1: Biofilter CP# 1 (DS) - DS Biofilters # 1 1. Top area (square feet) = 110992. Bottom aea (square feet) = 3588 Depth (ft): 6 3. Biofilter width (ft) - for Cost Purposes Only: 10 4. Infiltration rate (in/hr) = 0.55. Random infiltration rate generation? No 6. Infiltration rate fraction (side): 1 7. Infiltration rate fraction (bottom): 1 8. Depth of biofilter that is rock filled (ft) 1 9. 10. Porosity of rock filled volume = 0.3311. Engineered soil infiltration rate: 3.6 12. Engineered soil depth (ft) = 1.5 13. Engineered soil porosity = 0.27 14. Percent solids reduction due to flow through engineered soil = 80 15. Biofilter peak to average flow ratio = 3.8 16. Number of biofiltration control devices = 1 17. Particle size distribution file: Not needed - calculated by program INS 18. Initial water surface elevation (ft): 0 Soil Type Fraction in Eng. Soil Soil Data Junction 2 Q User-Defined Media Type 1.000 Biofilter Outlet/Discharge Characteristics: North Area - NT Outlet type: Broad Crested Weir DS Biofilters # 1 INS BF 1. Weir crest length (ft): 5 2. Weir crest width (ft): 5 3. Height of datum to bottom of weir opening: 5 unction 1 Outlet type: Vertical Stand Pipe East Area - NT 1. Stand pipe diameter (ft): 2 INS UD-1 2. Stand pipe height above datum (ft): 3 Outlet type: Drain Tile/Underdrain 1. Underdrain outlet diameter (ft): 0.5 2. Invert elevation above datum (ft): 0.5 3. Number of underdrain outlets: 1

Proposed SLAMM

# Proposed SLAMM

Device Properties         Biofilter Number 1           Top Area (sf)         11093           Bottom Area (sf)         3568           Total Depth (tt)         6.00           Typical Width (tt) (Cost est. only)         10.00           Native Soil Infiltration Rate (in/hr)         0.500           Native Soil Infiltration Rate (in/hr)         0.500           Native Soil Infiltration Rate (in/hr)         0.500           Native Soil Infiltration Rate COV         N/A           Infil. Rate Fraction-Sides (0.001-1)         1.000           Renove         Vertical Stand Pipe           Pipe diameter (lt)         2.00           Renove datum (tt)         5.00           Pipe diameter (lt)         2.00           Renove datum (tt)         5.00           Renove datum (tt)         3.00           Soil prosity (saturation mainsture content, 0-1)         5.00           Renove datum (tt)         3.00           Regineered Media Infiltration Rate COV         N/A           Engineered M	r Outflow ▲ te (cfs) Month Evapotrans piration Jan Feb Mar Jun Jun Jun Jun Jun Jun Dec Dec Dec
Image: Top Area (sf)       Intogeneration         Sottom Area (sf)       3588         Values Coll Infiltration Rate (m/hr)       0.500         Native Soil Infiltration Rate COV       N/A         Broadc Filled Depth (ft)       1.000         Rock Filled Depth (ft)       1.000         Rock Filled Depth (ft)       0.33         Engineered Media Infiltration Rate       3.600         Add       Surface Discharge Pipe         Singeneered Media Infiltration Rate       3.600         Add       Surface Discharge Pipe         Fipe Diameter (ft)       1.500         Impineered Media Infiltration Rate COV       N/A         Pipe Diameter (ft)       0.210         Pipe Diameter (ft)       0.210         Pipe Diameter (ft)       0.210         Pipe Diameter	te (cfs)     Month     piration     Evapoli       Jan     (in/day)     (in/day)       Feb     (in/day)       Mar     (in/day)       Jan     (in/day)       Feb     (in/day)       Jan     (in/day)       Mar     (in/day)       Jun     (in/day)       Jun     (in/day)       Jun     (in/day)       Jun     (in/day)       Oct     (in/day)       Dec     (in/day)
ototom Area (sf)     3588       bottom of weir opening (ft)     1       otal Depth (ft)     6.00       ypical Width (ft) (Cost est. only)     10.00       lative Soil Infiltration Rate (in/hr)     0.500       lative Soil Infiltration Rate (in/hr)     0.500       hill. Rate Fraction-Bottom (0.001-1)     1.000       hill. Rate Fraction-Sides (0.001-1)     1.000       hook Filed Depth (ft)     1.000       lock Filed Depth (ft)     0.33       ngineered Media Infiltration Rate COV     N/A       ngineered Media Depth (ft)     1.50       Invert elevation above datum (ft)     50       Invert elevation above datum (ft)     50	ination  I I I I I I I I I I I I I I I I I I I
batel Depth (k)     6.00       upical Width (k) (Cost est. only)     10.00       value Soil Infiltration Rate (inv/hr)     0.500       ative Soil Infiltration Rate (inv/hr)     0.500       Meir crest length (kt)     5.00       Veir crest width (kt)     5.00       Height from datum to bottom of weir opening (kt)     5.00       Filled Depth (kt)     1.000       ngineered Media Type     Media Data gineered Media Infiltration Rate COV       Mdd     Surface Discharge Pipe       Pipe Diameter (kt)     1.000       Height above datum (kt)     3.00       Filed Depth (kt)     1.000       Pipe diameter (kt)     3.00       Height above datum (kt)     3.00       Height above datum (kt)     Soil porosity (saturation moisture copacity (0-1)       Soil porosity (saturation moisture copacity (0-1)     0.03       Pipe diameter (kt)     3.00       Height above datum (kt)     Soil porosity (saturation moisture copacity (0-1)       Pipe Diameter (kt)     1.00       Pipe Diameter (kt)     Fraction of available capacity (0-1)       Pipe Diameter (kt)     1.00       Pipe Diameter (kt)     Pipe Diameter (kt)       Pipe Diameter (kt)     Pipe Diameter (kt)       Pipe Diameter (kt)     Pipe Diameter (kt)       Pipe Diameter (kt)     Pipel Diameter (kt)	Jan Feb Mar Apr May Jun Jul Jul Sep Oct Oct Nov Dec
upical Width (ft) (Cost est. only)     10.00       ative Soil Infiltration Rate (in/hr)     0.500       ative Soil Infiltration Rate (10/hr)     0.500       Infil Rate Fraction-Bottom (0.001-1)     1.000       Infil Rate Fraction-Sides (0.001-1)     1.000       Dock Filled Depth (ft)     1.000       Digineered Media Type     Media Data       Orgineered Media Infiltration Rate COV     N/A       Pigneered Media Depth (ft)     1.50	Feb Aar
ative Soil Infiltration Rate (in/hr)     0.500     Vein cress width (h)     5.00       ative Soil Infiltration Rate COV     N/A       fil. Rate Fraction-Bottom (0.001-1)     1.000       bottom of weir opening (h)     5.00       Height from datum to bottom of weir opening (h)     5.00       cs. Filed Depth (h)     1.000       pineered Media Type     Media Data       Add     Surface Discharge Pipe Pipe Diameter (h)       pineered Media Infiltration Rate     3.60       Add     Surface Discharge Pipe Pipe Diameter (h)       pineered Media Infiltration Rate     0.10       Add     Surface Discharge Pipe Pipe Diameter (h)       Pipe Diameter (h)     1.50	Mar Apr Apr Jun Jun Jun Jun Jun Oct Oct Nov Dec
ative Soil Infiltration Rate COV     N/A       fil. Rate Fraction-Bottom (0.001-1)     1.000       fil. Rate Fraction-Sides (0.001-1)     1.000       rigineered Media Type     Media Data       rigineered Media Infiltration Rate     3.60       rigineered Media Infiltration Rate COV     N/A       rigineered Media Diffication Rate COV     Remove Relevation above datum (tt)	Apr       May       Jun       Jul       Aug       Oct       Oct       Nov       Dec
III. Rate Fraction-Bottom (0.001-1)     1.000       iiI. Rate Fraction-Sides (0.001-1)     1.000       iiI. Rate Fraction-Sides (0.001-1)     1.000       iiI. Rate Fraction-Sides (0.001-1)     1.000       pigineered Media Type     Media Data       iiii. Rate Fraction-Sides (0.001-1)     0.033       iiii. Rate Fraction-Sides (0.011-1)     0.033       iiii. Rate Fraction-Sides (0.011-1)     0.033       iiii. Remove     Vertical Stand Pipe       Pipe diameter (It)     2.001       Height above datum (It)     3.001       iii. Rate Fraction-Sides (0.1)     5.001	May       Jun       Jul       Jul       Aug       Sep       Oct       Oct       Nov       Dec
Remove     Vertical Stand Pipe       Bigineered Media Infiltration Rate     3.60       Signeered Media Infiltration Rate     3.60       Media Depth (ft)     1.000       Height above datum (ft)     2.000       Height above datum (ft)     3.00       Pipe Diameter (ft)     3.00       Pipe Diameter (ft)     3.00       Pipe Diameter (ft)     1.000       Height above datum (ft)     3.00       Pipe Diameter (ft)     1.000       Piper Dia	Jun     Jul       Jul     Aug       1)     Sep       Oct     Oct       Nov     Oct
Remove     Vertical Stand Pipe     Soil porosity (saturation moisture content, 0-1)       pipe diameter (ft)     0.03       regineered Media Type     Media Data       ngineered Media Infiltration Rate     3.60       ngineered Media Infiltration Rate     3.60       Pipe Diameter (ft)     0.33       Pipe Diameter (ft)     0.03       Name     Add       Surface Discharge Pipe       Pipe Diameter (ft)     0.10       Invert elevation above datum (ft)       Surface Discharge Pipe       Pipe Diameter (ft)       Invert elevation above datum (ft)       Fraction of available capacity       Network (0-1)	Jul       Aug       Sep       Oct       Nov       Dec
Pipe diameter (ft)       2.00         pipe diameter (ft)       2.00         gineered Media Type       Media Data         Add       Surface Discharge Pipe         Pipe Diameter (ft)       3.00         Add       Surface Discharge Pipe         Pipe Diameter (ft)       1.50         Invert elevation above datum (ft)       Traction of available capacity (0-1)	Aug
bick Fill Porosity (U-1)     U.33       ngineered Media Type     Media Data       Height above datum (it)     3.00       Soil Field moisture capacity (0-1)       gineered Media Infiltration Rate     3.60       Add     Surface Discharge Pipe       Pipe Diameter (it)     1.50       Invert elevation above datum (it)     Fraction of available capacity (0-1)	1) Sep Oct Nov Dec Dec
Imagineered Media Type         Media Data         Imagineered Media Type         Permanent wilting point (0-1)           Igineered Media Infiltration Rate         3.60         Add         Surface Discharge Pipe         Permanent wilting point (0-1)           Igineered Media Infiltration Rate COV         N/A         Pipe Diameter (ft)         Surface Discharge Pipe         Fraction of available capacity when irrigation starts (0-1)           Image: Element Media Depth (ft)         1.50         Invert elevation above datum (ft)         Fraction of available capacity	
Instruction         Add         Surface Discharge Pipe         Supplemental irrigation used?           Igineered Media Infiltration Rate COV         N/A         Pipe Diameter (ft)         Fraction of available capacity           Igineered Media Depth (ft)         1.50         Invert elevation above datum (ft)         Fraction of available capacity	
gineered Media Infiltration Rate COV N/A gineered Media Depth (ft) 1.50 Invert elevation above datum (ft) Fraction of available capacity when irrigation starts (0-1) Eraction of available capacity the starts (0-1) Fraction of available capacity when irrigation starts (0-1)	
igineered Media Depth (it)  Invert elevation above datum (it)  Fraction of available canacity  Fraction of available canacity	Diant Turner
Eraction of available canacity	Disple Tuppes
Ingineered Media Porosity (U-1) U.27 Number of pipes at invert elev.	mant Types
rcent solids reduction due to on on	1 2 3 4
gineered Media (0 -100) Fraction of biofilter that is vege	etated
low Hydrograph Peak to Average 2 on Pipe Diameter (ft) 0.50 Plant type	
w Ratio 3.00 Invert elevation above datum (ft) 0.50 Root depth (ft)	
umber of Devices in Source Area or 1 Number of pipes at invert elev. 1 ET Crop Adjustment Factor	
ostream Drainage System Biofilte	ter Geometry Schematic Refresh Schematic
Activate Pipe or Box Storage C Pipe C Box	
ameter (ff)	L500' J
aneor (n)	0.000 <b></b>
ithin Riofiltar (chack if Yee)	
vinin bronker (chock II 165)	
Hora Elevation (Bisheve datum)	
Intomic revision (it above datum) Number	
Charge Unrice Diameter (it) Generation to	
elect Native Soil Inhitration Hate Account for	_ /
Sand 8 in/hr Clay loam 0.1 in/hr Infiltration Rate 6.00	
Loamy sand - 2.5 in/hr 🕐 Silty clay loam - 0.05 in/hr Uncertainty 5.00' — — —	Top of Engineered Media
Sandy loam - 1.0 in/hr C Sandy clay - 0.05 in/hr Conu Biofilter	Top or Engineered Media -2.00"-
Coam - 0.5 in/hr C Silty clay - 0.04 in/hr Data 1.50'	3.00
Sill Joam - 0.3 in/hr C Clay - 0.02 in/hr	-0.50'
Sandy silt loam 0.2 in/hr O Rain Barrel/Cistern 0.00 in/hr Paste Bioliter	Top of Rock Fill
	1x0.50'
Estimated Surface Drain Time = 1.97 km	
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Database File       File       Press F1 for Help         ntol Practice # : 1       CP Index #: 1       CP Index #: 1         Name:       D23\230049.00 Watertown YMCA\Disciplines\Crvil\Engineering\Stormwater\SLAMM\Proposed.mdb         Outffall Output Summary       Runoff Volume Percent Runoff Coefficient (Rv)       Partici         al of All Land Uses without Controls       352459       0.45       Outfall Total with Controls         0utfall Total with Controls       260236       26.17 %       0.33       Image: Concentration - Not Controls         rent File Output: Annualized Total After Outfall Controls       260951       Years in Model Run:       1.00         Pollutant       Concentration - No Controls       Concentration - With Controls       -No Controls       -With Controls         Particulate Solids       108.1       61.60       mg/L       2377         Particulate Phosphorus       0.2185       0.1593       mg/L       4.807         Print Output Summary to Text File       Total Area Modeled (ac)       6.692	ight Mouse Click on Icon       Cancel       Continue         ind Select Delete       Cancel       Continue         iculate Solids onc. (mg/L)       Particulate Solids Yield (lbs)       Percent Particulate Solids Reduction         108.1       2377         61.60       1001         57.89 %         1003         ant Yield       Percent Yield Reduction         101       105         1003       57.89 %         2.588 lbs       46.16 %         w biofilter control practice summary tab rit is.         Receiving Water Impacts Due To Stormwater Runoff (CWP Impervious Cover Model)         Approximate Calculated Urban Stream
Database rie       rie       Press FT for Heip         ntol Practice # : 1       CP Index #: 1         Name:       D23\230049.00 Watertown YMCA\Disciplines\Civil\Engineering\Stormwater\SLAMM\Proposed.mdb         Outfall Output Summary       Runoff Volume Percent Runoff Coefficient (Rv)       Partice         al of All Land Uses without Controls       352459       0.45       Outfall Coutrols         Outfall Total with Controls       260236       26.17 %       0.33         rent File Output: Annualized Total After Outfall Controls       260951       Years in Model Run:       1.00         Pollutant       Concentration - No tration - With Controls       0.1533       mg/L       2377         Particulate Solids       108.1       61.60 mg/L       2377         Particulate Solids       108.1       61.63 mg/L       4.807         Print Output Summary to .csv File       Total Area Modeled (ac)       Total Area Modeled (ac)       Total Area Modeled (ac)         Print Output Summary to Printer       Total Area Modeled (ac)       Total Area Modeled (ac)       Total Area Modeled (ac)         Cost       N/A       N/A       N/A       N/A       N/A	Ight Mouse Click on Icon and Select Delete       Cancel       Continue         iculate Solids onc. (mg/L)       Particulate Solids Yield (lbs)       Percent Particulate Solids Reduction         108.1       2377         61.60       1001         57.89 %         2.588 lbs       46.16 %         w biofilter control practice summary tab r it is.         Receiving Water Impacts Due To Stormwater Runoff (CWP Impervious Cover Model)         Approximate Urban Stream Rv
Database rile       rile       Press FT for Heip         ntol Practice # : 1       CP Index #: 1       CP Index #: 1         Name:       D23\230049.00 Watertown YMCA\Disciplines\Crvil\Engineering\Stormwater\SLAMM\Proposed.mdb         Outffall Output Summary       Runoff Volume Percent Runoff Coefficient (Rv)         al of All Land Uses without Controls       352459       0.45         Outfall Total with Controls       352459       0.45         Outfall Total with Controls       260236       26.17 %       0.33         rent File Output: Annualized Total After Outfall Controls       260951       Years in Model Run:       1.00         Pollutant       Concentration - No Controls       Concentration - With Controls       -With Controls       -With Controls         Particulate Solids       108.1       61.60 mg/L       2377         Particulate Phosphorus       0.2185       0.1593 mg/L       4.807         Print Output Summary to .csv File       Total Area Modeled (ac)       6.692       A biofilter will clog. Review to determine which biofilter         Print Output Summary to Text File       Total Area Modeled (ac)       6.692       Perform Outfall         Victor of Microstory       N/A       Perform Outfall       Perform Outfall	Ight Mouse Click on Icon and Select Delete       Cancel       Continue         iculate Solids onc. (mg/L)       Particulate Solids Yield (lbs)       Percent Particulate Solids Reduction         108.1       2377         61.60       1001         57.89 %         1003
Database rie       rie       Press F1 for Heip         itrol Practice # : 1       CP Index # : 1       Press F1 for Heip         vame:       D23\230049.00 Watertown YMCA\Disciplines\Civil\Engineering\Stormwater\SLAMM\Proposed.mdb         Outfall Output Summary         Bunoff Volume       Percent Runoff       Coefficient       Partic         Cold All Land Uses without Controls       352459       0.45       Coefficient       Partic         Outfall Total with Controls       352459       0.45       Coefficient       Partic         Outfall Total with Controls       260236       26.17 %       0.33       Total         rent File Output: Annualized Total       260951       Years in Model Run:       1.00         Pollutant       Concentration - No       Concentration - With       Total After Outfall Controls       -With Controls         Particulate Solids       108.1       61.60       mg/L       2377         Particulate Phosphorus       0.2185       0.1593       mg/L       4.807         Print Output Summary to rest File       Total Area Modeled (ac)       Ess2       A biofilter will clog. Review to determine which biofilter         It Control Practice Costs       N/A       Maintenance Cost       N/A       Perform Outfall         Riset of All Cost	ight Mouse Click on Icon and Select Delete       Cancel       Continue         iculate Solids onc. (mg/L)       Particulate Solids Yield (lbs)       Percent Particulate Solids Reduction         108.1       2377         61.60       1001         57.89 %         2003

The stormwater basin removes a total of 1376 lbs of TSS which is greater than the 1104.6 lbs required. It also removes a total of 46.16% phosphorus which is greater than the 30% required.

1



	G	CI	nc		LOG OF TEST BORING         Project       Proposed Watertown Building Developm Johnson Street         Location       Watertown, Wisconsin         36 S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443	Boring No. Job No. Sheet	). levation C 1 (	Β. ι (ft) M231 of	- <b>1</b> 809± 167 1	 H
	SA	MPL	E		VISUAL CLASSIFICATION	SOIL	PRO	PEF	RTIE	S
No.	T Rec	Moist	N	Depth (ft)	and Remarks	qu (qa)	W	LL	PL	LOI
	<u> </u>			 	FILL: 5" Black Clayey Topsoil	(LSI)				
1	3	М	100/		FILL: Dark Brown Sandy, Gravelly Silt		3.0			
			0	<u> </u>	Very Dense, Light Brown SILT; Little Sand and		+			
2	8	М	100/ 12"	L L L +- 5-	Gravel (ML)					
3	10	W	100/	Þ	Very Dense, Light Brown SILT; Little Fine Sand					
	10	vv	11"	F F	(ML)					
- 1	12	м	100/		Very Dense, Gray SILT; Little Fine Sand (ML)					
4	15	IVI	15"	 						
5	8	-	100/ 11" 30/ 0"		Very Dense, Gray SILT; Little Sand and Gravel, Few Cobbles/Boulders (ML)					
					End of Boring & Auger Refusal at 21 ft					
					Backfilled with Bentonite Chips					
	1	1	W	ATEF	LEVEL OBSERVATIONS	GENERA	L NC	TES	\$	L
While Time Dept Dept	e Drill After h to W h to Ca	ing Drillin Vater ave in	$\underline{\nabla}$ 6 ng	.ines re	Upon Completion of Drilling <u>12.0'</u> Start 	9/20/23         End           J&J         Chief           JP         Edito           thod         2.25"	9/20 JI r TA HSA	/23 > F C	<b>∖ig <u>C</u>!</b>	ME-45

C	G	СІ	n			I I 336	LOG OF TEST BORING         Project       Proposed Watertown Building Developmen Johnson Street         Location       Watertown, Wisconsin         S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-20	Boring N t Surface E Job No. Sheet	o. Elevation C	<b>B</b> (ft) <b>M23</b> of	- <b>2</b> 813± 167 1	 = 
	SA	MPL	E				VISUAL CLASSIFICATION	SOIL	. PRO	PEF	RTIE	S
No.	Rec (in.)	Moist	N	Dept (ft	:h )		and Remarks	qu (qa)	W	LL	PL	LOI
				F	_		FILL: 12" Black Clayey Topsoil	(USI)				
1A/B	18	М	17				Medium Dense, Brown SAND; Little Silt, Trace Clay and Gravel (SP-SM)		6.4			
2	18	VM	16		5—	-	Medium Dense, Light Brown and Gray Mottled SILT; Little Sand and Gravel (ML)					
3	18	М	37	⊢ ∔- ⊢ +			Dense to Very Dense, Light Brown SILT; Little Sand and Gravel, Few Sand Seams/Layers (ML)	-				
4	18	M	63									
5.4/D	10	W	42		0—							
JA/B	10		43		5—		Dense to Very Dense, Gray SILT; Little Sand and Gravel, Few Sand Seams/Layers (ML)	-				
6	12	W/M	61		0—							
7	6	М	100/ 6"									
			-		5—		End of Boring at 25 ft Backfilled with Bentonite Chips					
	•		W	ATE	R	<u> L</u>	EVEL OBSERVATIONS	<b>GENER</b>	AL NC	DTES	3	
While Time Depth Depth	e Drill After h to W h to Ca	ing Drillin ater ave in	$\frac{\nabla}{\log}$	12.0'±	re	pre	Upon Completion of Drilling <u>19.0'</u> Start <u>9/2</u> Driller <u>J</u> Logger Drill Metho	20/23 End &J Chie JP Edito d 2.25"	9/20 f JI or TA HSA	/23 P I C	≀ig <u>C</u> I	ME-45

C	G	СІ	nc	<b>)</b>	Pr  Lc 336 S.	LOG OF TEST BORING         oject       Proposed Watertown Building Development         Johnson Street         ocation       Watertown, Wisconsin         Curtis Rd, West Allis, WI 53214, (414) 443-2000, FAX (414) 443-200	Boring No Surface E Job No. Sheet	o. levatior C 1 o	<b>B</b> (ft) <b>M23</b> of	- <b>3</b> 813± 167 1	 E	
	SA	MPL	E				SOIL	PRO	PEF	۲IE	S	
No	I Rec	Moist	N	Depth	-	and Remarks	qu (g2)	TAT			TOT	
INC. I	P(in.)	10130		(ft)		FILL: 18" Black Clavey Tonsoil	(qa) (tsf)				101	
1	18	M	25					( )				
						FILL: Brown Silty Sand, Trace Gravei		6.8				
2A/B	18	M	20	L L		Medium Dense, Brown SAND; Little Silt, Trace Clay and Gravel (SP-SM)						
				⊢ ╞── 5─ ┠─,		Medium Dense to Dense, Light Brown and Gray						
3	18	W/M	18	+¥ ⊢		Mothed SILT; Trace Sand and Graver (ML)						
4	18	М	67	T								
				L 10— L								
				<b>Y</b>		Dance to Vary Dance Gray SILT: Little Sand and	-					
				⊢ ┝ ŧ-		Gravel (ML)						
5	18	M/W	39									
				Г 13- Г								
6	14	W	12	⊨ ∔-								
0	14	vv	42	┝── ┝ ╆── 20─								
7	14	M	100/									
			14"	L L 25-		End of Boring at 25 ft						
				, ┝── ┝		Backfilled with Bentonite Chips						
			w		215				TES			
While	e Drill	ing	, V	.0'±	<b>عے ہ</b> آ	Juon Completion of Drilling 12.0' Start 9/2	0/23 End	9/20	/23	-		
Time	After	Drillin Drillin	ng			Driller J	&J Chief		P C	tig Cl	ME-45	
Depth	1 to W	ave in	•			Logger Drill Method	d <b>2.25</b> "	HSA	<b>.</b>	•••••	. 72	
The soi	strat	LIIICat	lion l	unes re ransiti	eprese	av be gradual.						
	G	CI	nc		LOG OF TEST BORING         Project       Proposed Watertown Building Developmen Johnson Street         Location       Watertown, Wisconsin         36 S. Curtis Rd. West Allis, WI 53214. (414) 443-2000, FAX (414) 443-2000	Boring No. $B-4$ Surface Elevation (ft) $819\pm$ Job No. $CM23167$ Sheet1of199						
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	SΔ	MPI	F	_ •	50 S. Cutus Kd, West Allis, W1 55214 (414) 445-2000, FAX (414) 445-2	SOII	PRO	PFF		S		
	TRAC		- <b>-</b>	Depth	VISUAL CLASSIFICATION	qu						
No.	P E (in.)	Moist	Ν	(ft)	and Remarks	(qa) (tsf)	W	LL	PL	LOI		
					FILL: 11" Black Clayey Topsoil							
1A/B	18	M	18		FILL: Light Brown Silt, Trace Sand and Gravel	_						
					Medium Dense, Brown SAND; Little Silt, Trace							
2	12	M	30		Medium Dense, Light Brown SILT: Trace to Little							
				∟ ∔- 5	Sand and Gravel, Trace Clay (ML)							
2	10	м	22	⊢ <del> </del>								
3	18	M	22	⊢ ⊢								
				Ţ	Very Dense Light Brown SILT: Little Sand and	-						
4	16	W/M	100/		Gravel (ML)		8.2					
			16"	L 10-								
				└ 								
				┣── ┣─	Very Dense, Gray SILT; Little Sand and Gravel	-						
				⊢- +-	(ML)							
5	14	M	100/									
			17	15-								
					Very Dense, Light Brown SILT; Little Sand and	-						
					Gravel (ML)							
6	15	W	100/	⊨_ +								
0	15	•••	15"									
					Very Dense, Gray SILT; Little Sand and Gravel							
7	4	M	100/									
			4"	∟ ₊ 25−								
				⊢ ⊢	End of Boring at 25 ft Backfilled with Bentonite Chips							
				⊢ ⊢								
			W	AIER	LEVEL OBSERVATIONS (	ENERA	LNC	TES	5			
While	e Drill	ing	<u>¥</u> 8	<u>8.0'±</u>	Upon Completion of Drilling <u>17.0'</u> Start <u>9/2</u>	20/23 End	9/20	/23		ME 47		
Dept	After h to W	Drillii ater	ng	<u>(percl</u>	$\underbrace{ea}_{J} \qquad \qquad$	<b>&amp;J</b> Chief JP Editor	JI r TA	с ŀ С	ug <u>C</u> l	VIE-45		
Dept	h to C	ave in			Drill Metho	d 2.25" I	ISA	· · · · · · · · · · · · · · · · · · ·	····	. 73		
The	strat	iticat s and	the t	Lines re transiti	present the approximate boundary between							

	G	CI	nc	2.)	LOG OF TEST BORING         Project       Proposed Watertown Building Developmen Johnson Street         Location       Watertown, Wisconsin         36.S. Curtis Rd. West Allis, WI 53214. (414) 443-2000, FAX (414) 443-2000	Boring No t Surface E Job No. Sheet	Boring No. $B-5$ Surface Elevation (ft) $819\pm$ Job No. $CM23167$ Sheet1of1of1						
	SA	MPL	E	_		SOIL	PRO	PEF	۲IE	S			
	T Rec	_		Depth	VISUAL CLASSIFICATION and Remarks	qu				-			
No. j	Ê(in.)	Moist	N	(ft)		(qa) (tsf)	W	LL	PL	LOI			
1	18	М	19		Medium Dense, Brown Clayey SAND; Trace Gravel (SC)	-							
2	18	М	21	⊥ └─ └─ ↓── 5─	Medium Dense, Light Brown and Gray Mottled SILT; Trace Sand and Gravel (ML)								
3	18	М	25	⊢ ∔ ⊢ ∤-	Medium Dense to Very Dense, Light Brown SILT; Little Sand and Gravel (ML)	-	8.2						
4	18	М	27	└ └ └ └ └ └ └									
5	15	М	100/ 15"										
6	12	W	100/ 12"		Very Dense, Light Brown SAND; Trace Silt and Gravel (SP)								
					Very Dense, Light Brown SILT; Little Sand and Gravel (ML)								
7	6	М	100/ 6"	∔ ┝- †- 20- ┝									
0	7	X/N/	100/		Very Dense, Gray SILT; Little Sand and Gravel (ML)	-							
8		VIVI	7"	└── └─ ↓── 25─ └── ┝─	End of Boring at 25 ft Backfilled with Bentonite Chips								
			W	AIEF	LEVEL OBSERVATIONS (	ENERA		TES	<b>&gt;</b>				
While Time Deptl Deptl	e Drill After h to W h to Ca	ing Drillin ater ave in	⊻ 1 ng	13.5'±	Upon Completion of Drilling Start 	18/23         End           &J         Chief           JP         Edito           d         2.25"	9/20 JI r TA HSA	/23 P F C	Lig CI	ME-45			

C	G	CI	nc		Pr  Lc 336 S.	LOG OF TEST BORING           oject         Proposed Watertown Building Development           Johnson Street         Johnson Street           Ocation         Watertown, Wisconsin           Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-200	Boring No. $B-6$ Surface Elevation (ft) $821 \pm$ Job No.CM23167Sheet1of199						
	SA	MPL	E			VISUAL CLASSIFICATION	SOIL	PRO	PEF	<b>RTIE</b>	S		
No.	Rec (in.)	Moist	N	Depth (ft)		and Remarks	qu (qa)	W	LL	PL	LOI		
				  -		FILL: 4" Dark Brown Clayey Topsoil	(USI)						
1	2	М	100/	<u> </u>		FILL: Brown Sandy SILT; Trace Gravel							
2 A /B	12	M	5 <sup>m</sup>			FILL: Brown Silty CLAY; Little Sand, Trace Gravel							
	12	IVI	19	└── └── └── 5─		Medium Dense, Light Brown and Gray Mottled Sandy SILT; Trace Gravel (ML)							
3	18	VM	8	- ⊢ ⊢		Loose to Medium Dense, Light Brown SILT; Trace to Little Sand and Gravel, Few Clay Seams, Few Cobbles/Boulders (ML)	(0.75-1.25)						
4	13	W	22					11.8					
5 6 7	18       16       12	M M/W/ M W	70 100/ 16" 14			Dense to Medium Dense, Light Brown SILT; Little Sand and Gravel (ML)							
			w			EVEL OBSERVATIONS	SENERA		TES	5			
While Time Depth Depth	e Drill After n to W n to Ca	ing Drillin ater ave in	$\underline{\nabla}$ 8 ng	<u>(perc</u>	( hed)	Jpon Completion of Drilling <u>11.0'</u> Start <u>9/1</u> Driller J. Logger Drill Method	8/23 End &J Chief IP Editor 1 2.25" H	9/18 JI TA ISA	/23 C	₹ig <u>C</u> !	ME-45		

	G	CI	Inc		Pro  Lo	LOG OF TEST BORINGojectProposed Watertown Building Development Johnson StreetocationWatertown, Wisconsin	Boring No.P-1Surface Elevation (ft)822±Job No.CM23167Sheet1of1of							
	64	MDI	<b>_</b>		336 S.	Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-20	99 				6			
				1		VISUAL CLASSIFICATION					:5			
No.	Y Rec P E(in.)	Moist	Ν	Depth   (ft)		and Remarks	(qa) (tsf)	W	LL	PL	LOI			
				+ F	$\square$	4.5" ASPHALT over 8" CRUSHED STONE BASE								
1	18	M	14			FILL: Dark Brown Sandy Clay, Trace to Little Gravel	(4.5+)	10.5						
2A/B	18	M	27											
				⊨ ∔- 5-		Medium Dense, Brown Silty SAND; Trace Gravel				<u> </u>				
3	18	M	27	⊢ ╄─ ⊢		Stiff, Brown Mottled Silty CLAY; Little Sand,								
				¦ ⊢− +		(Irace Gravel (CL-ML) Medium Dense to Very Dense Light Brown SILT:		<u> </u>	ļ					
	10	м	58			Trace to Little Sand and Gravel, Trace Clay (ML)								
	10	IVI	50											
						End of Boring at 10 ft Backfilled with Soil Cuttings								
				⊢ ⊢										
				F 										
				- 15-	1									
				⊢ ⊢										
				⊢ ├─ 20-	-									
				L 25-										
				⊢ ⊢										
				⊢ ⊢										
			<b>_</b> w		2 I E					<u> </u>				
W7L:1	a D.:11				<b>· ···</b>	Inon Completion of Drilling NNV Start 0/1			/)2					
Time	e Drill After	nıg Drilli	ng <u>+ </u>	7.0 ±			<b>&amp;J</b> Chief	9/18/ JI	• <b>23</b>	Rig <b>C</b> ∐	ME-45			
Dept	h to W h to C	ater ave in				Logger J Drill Method	<b>IP</b> Edito 1 <b>2.25</b> "	r <u>TA</u> HSA	C					
The soi	e strat	cificates and	tion i the f	lines retransit:	eprese ion ma	ay be gradual.								

	G	CI	n	<b>c</b> .)	I I I	LOG OF TEST BORING Project Proposed Watertown Building Development Johnson Street Location Watertown, Wisconsin	Boring No Surface E Job No. Sheet	o. levation C 1 c	P- (ft) M231	- <b>2</b> 824.5 167 1	······
	64		_	_	336	S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-200	99 _ 		DEF	סדוב	<u> </u>
	5A		.E			VISUAL CLASSIFICATION		PRO	PEF		:2
No.	P (in.)	Moist	Ν	Depti (ft)	1	and Remarks	(qa) (tsf)	W	LL	PL	LOI
				F		3.5" ASPHALT over 5.5" CRUSHED STONE	(001)				
1A/B	16	М	13			BASE COURSE		10.6			
				<u> </u>	7777	Black to Dark Gray Sandy CLAY; with Organics					
2A/B	18	М	11			(OL) (BURIED TOPSOIL)	(2.0)			-	
				⊢ ╄──── 5 ┣	-11	(CL) Stiff, Brown Sandy CLAY; Trace to Little Gravel				<u> </u>	
3	18	W	39	¦⊉ ⊢		Medium Dense to Dense, Brown to Light Brown					
		-		}— †		Sandy SILT; Trace Gravel (ML)					
4	18	M	24								
	10			L L 10							
						End of Boring at 10 ft Backfilled with Soil Cuttings					
				⊢ ⊢_ ∟							
				⊢ ⊢							
				⊢ ⊢							
				⊢ 20 ⊢	_						
				È-							
				È-							
				∟ ⊢ 25							
				⊢ ⊢							
				⊢ ⊢-							
				<u> </u>							
			w		RL	EVEL OBSERVATIONS	SENERA		TES	5	
While	e Drill	ing	 	5.0'+		Upon Completion of Drilling NW Start 9/1	8/23 End	9/18	/23		
Time	After	Drillir	ng	<u>(per</u>	ched	Driller Ja	&J Chief	f JI	F F	tig Cl	ME-45
Deptl	1 to W 1 to Ca	ater ave in				Logger Drill Method	Edito <b>2.25</b>	r IA HSA	U		77
The	strat 1 type	ificat s and	the t	lines 1 transit	epre	sent the approximate boundary between may be gradual.					

CGC Inc.	LOG OF TEST BORING         Project       Proposed Watertown Building Development         Johnson Street       Johnson Street         Location       Watertown, Wisconsin         336 S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-20	Boring No Surface E Job No. Sheet	o. P levation (ft) CM23 1 of	2-3 823.5± 167 1
SAMPLE	VISUAL CLASSIFICATION	SOIL	PROPE	RTIES
No. TRec Moist N Depth	and Remarks	qu (qa)	W LL	PL LOI
	11" Black Clayey TOPSOIL	(tsf)		
1A/B 13 M 34	Hard, Brown Sandy CLAY; Trace to Little Gravel	(4.5+)	13.6	
	Medium Dense to Very Dense, Light Brown SILT;			
2 12 M 27 L L 5				
3 15 M 64 –				
4 12 M 100/ 13" - 10				
	Backfilled with Soil Cuttings			
While Drilling $\overline{\nabla}$ NW         Time After Drilling	Upon Completion of Drilling 	SENERA 8/23 End &J Chief IP Edito 1 2.25" I	L NOTE 9/18/23 JP r TAC HSA	S Rig CME-45

	G	CI	n	<b>D.</b> )	LOG OF TEST BORING         Project       Proposed Watertown Building Development         Johnson Street       Johnson Street         Location       Watertown, Wisconsin         336 S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-200	Boring No Surface E Job No. Sheet	o. levation C 1 c	P- (ft) M231 of	• <b>4</b> 822± 167	 Ŧ
	SA	MPL	E		VISUAL CLASSIFICATION	SOIL	PRO	PEF	λ	S
No.	T Rec	Moist	N	Depth	and Remarks	qu (qa)	W	LL	PL	LOI
	É(in.)			(ft)	9" Black Clayev TOPSOIL	(tsf)				
1A/B	14	М	13		Very Stiff, Brown Mottled Lean CLAY; Trace Sand and Gravel (CL)		18.4			
2	18	М	22		Medium Dense, Light Brown and Gray Mottled Sandy SILT; Trace Gravel (ML)					
				↓ 5 ⊢	Maline Deres & Vers Deres Light Deres Santa					
3	18	М	17	+- ⊢ ⊢	SILT; Trace Gravel (ML)					
4	12	M/W	100/							
					End of Boring at 10 ft Backfilled with Soil Cuttings					
			W	ATEF	LEVEL OBSERVATIONS	SENERA		TES	5	
While Time Dept Dept	e Drill After h to W h to Ca	ing Drillin ater ave in	$\underline{\nabla}$ $\underline{g}$	<b>).0'±</b>	Upon Completion of Drilling <u>NW</u> Upon Completion of Drilling <u>NW</u> Upriller <u>J</u> Logger <u>J</u> Drill Method	8/23 End &J Chief JP Edito d 2.25"	9/18 JI r TA HSA	/23 F C	Kig <u>C</u> I	ME-45

	G	CI	nc		LOG OF TEST BORING         Project       Proposed Watertown Building Developmen Johnson Street         Location       Watertown, Wisconsin         36.S. Curtis Rd. West Allis, WI 53214. (414) 443-2000. FAX (414) 443-2	Boring No.P-5Surface Elevation (ft) $821.5 \pm$ Job No.CM23167Sheet1of1099					
	SA	MPL	E				PRO	PER	TIE	S	
	T Rec			Depth	VISUAL CLASSIFICATION and Romarks	qu					
No.	P <sub>E</sub> (in.)	Moist	N	(ft)		(qa) (tsf)	W	LL	PL	LOI	
	1.6		2.1	¦ ⊢ ╆─	FILL: 3" Black Clayey Topsoil		2.0				
1	16	M	24		Gravel		2.8				
				È.							
2	18	M	9								
				⊢ ├- 5-							
3A/B	18	M	11	┾─- ┝-	FILL: Mix of Dark Brown Sandy Clay and Topsoil,	(2.0)					
				⊢ †	Dark Brown to Black Sandy CLAY; with Organics						
	3	м	15	ř– T	(OL) (BURIED TOPSOIL)						
Т	5	IVI	15		Medium Dense, Light Brown and Gray Mottled Sandy SILT: Trace Gravel (ML)						
					End of Boring at 10 ft						
				⊢ ⊢	Backfilled with Soil Cuttings						
				⊢ ⊢							
				[ 15-							
				⊢ ⊢							
				F							
				L 25-							
				⊢ ├─							
			w					TES			
W/h;1	o Drill	ing			Linon Completion of Drilling NW Stort 0/	18/23 End	0/10/	- <b></b>			
Time	After	Drillin	<u> </u>	<u> </u>		<b>I&amp;J</b> Chie	f <b>JP</b>	23 R	ig <u>C</u> I	ME-45	
Dept	h to W	ater			⊥ Logger	JP Edito	or TA HSA	<u>C</u>			
The	strat	cificat	the t	Lines re	present the approximate boundary between	<i></i>	1107			80	

	G	СІ	nc		LOG OF TEST BORING Project Proposed Watertown Building Developmen Johnson Street Location Watertown, Wisconsin 2000 Fax (410) 442 2000 Fax (410) 442 2000	Boring No t Surface E Job No. Sheet	o. levatior C	P. n (ft) 2 <b>M23</b> 1 of	- <b>6</b> 821.5 167 1	±
	SΔ	MPI	F		36 S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-20		PRO	PFF	<b>?TIF</b>	S
	T Rec			Depth	VISUAL CLASSIFICATION	qu				
No.	P E (in.)	Moist	N	(ft)		(qa) (tsf)	W	LL	PL	LOI
1A/B	18	M	20		FILL: 3" Black Clayey Topsoil FILL: Brown Sandy Silt, Trace Gravel, Little		5.1			
2A/B	18	M	10		FILL: Brown Lean Clay, Trace Sand and Gravel					
				⊢ ∔ 5 ⊢	Black Sandy CLAY; with Organics (OL) (BURIED	-				
3	18	М	38	+- ⊢ †-	and Clay (SM) Dense, Light Brown and Gray Mottled SILT; Trace	(3.5)				
4	18	M	21		to Little Sand and Gravel, Few Clay Seams (ML) Medium Dense, Light Brown Sandy SILT; Trace					
					End of Boring at 10 ft Backfilled with Soil Cuttings					
While	e Drill	ing	W. Z		LEVEL OBSERVATIONS       C         Upon Completion of Drilling       NW       Start       9/1	GENERA	AL NC 9/18	DTE\$	5	
Time Depth Depth	After h to W h to Ca	Drillin Vater ave in	ion l		Driller J Logger Drill Metho	&J Chief JP Edito d 2.25"	f JI or TA HSA	PF C	tig <u>C</u> !	ME-45

	G	СІ	nc		P I I	LOG OF TEST BORING         Project       Proposed Watertown Building Development         Johnson Street       Johnson Street         Jocation       Watertown, Wisconsin	Boring No Surface E Job No. Sheet	o. levatior C	<b>SW</b> n (ft) <b>M23</b> 1 of	<b>/-1</b> 812± 167 1	 
	67	MDI	5		336	S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-20	99 _ 		DE		.e
r	3A 1		- <b>C</b>	T		VISUAL CLASSIFICATION					.5
No.	P E (in.)	Moist	Ν	(ft)		and Remarks	(qa) (tsf)	W	LL	PL	LOI
						FILL: 18" Black Clayey Topsoil					
1A/B	14	M	20			FILL: Brown Silty Sand and Sandy Silt, Trace Gravel		8.0			
2A/B	18	М	9			Hard, Brown Lean CLAY; Trace Sand and Gravel (CL)	(4.5+)				
				∔5 ├-		Loose, Brown SAND; Little Silt, Trace Clay and					
3	18	M	14	   		Very Stiff to Hard, Light Brown and Gray Mottled Silty CLAY; Trace Fine Sand (CL-ML)	(3.0)				
4	18	М	26				(4.5+)				
5	18	M	25			Medium Dense, Gray SILT; Little Fine Sand (ML)					
				⊢ †							
6	18	W	34	⊢ ⊢ ┌							
					-	EVEL ODSEDVATIONS					
					κL	EVEL UBSERVATIONS (				>	
While Time Deptl Deptl	e Drill After n to W n to Ca strat	Ing Drillin ater ave in	<u>⊻</u> 1 ng	Lines pransit	repre	Upon Completion of Drilling <u>NW</u> Start <u>9/1</u> Driller J Logger J Drill Method may be gradual.	5/23 End &J Chief IP Edito 1 2.25"	9/15 f Jl r TA HSA	/23 P F C	∖ig <u>C</u> !	ME-45 82

	G	CI	nc			P  L 336 S	LOG OF TEST BORING roject Proposed Watertown Building Development Johnson Street ocation Watertown, Wisconsin S. Curtis Rd, West Allis, WI 53214 (414) 443-2000, FAX (414) 443-20	Boring No.         SW-2           Surface Elevation (ft)         812±           Job No.         CM23167           Sheet         1         of         1           99						
	SA	MPL	E				VISUAL CLASSIFICATION	SOIL	PRO	PEF	<b>RTIE</b>	S		
No.	Rec (in.)	Moist	N	Dep (f	th		and Remarks	qu (qa)	W	LL	PL	LOI		
							17" Black Clayey TOPSOIL	(tsf)						
1A/B	16	М	11				Hard, Dark Brown to Brown Lean CLAY; Trace Sand and Gravel (CL)		13.6					
2A/B	15	M/W	25		5—		Medium Dense to Dense, Light Brown and Gray Mottled SILT; Little Fine Sand, Trace Gravel (ML)							
3	18	М	16	⊢ ┾- ┝- ┿										
4	18	М	33		10—									
5	10	М	54	∟ ∔ ⊢ ∔			Dense, Gray SILT; Little Fine Sand (ML)							
6	18	М	44		15—									
					20— 25— 30—		End of Boring at 15 ft Backfilled with Bentonite Chips	ENERA		TE				
Whit	- Drill	ing	۷۷. ر V	A∏ 1 ∩'-		Ĺ	EVEL UDSERVATIONS	5/23 End	0/1 <i>5</i>	/) E	2			
Time Depth Depth	After 1 to W 1 to Ca	Drillir ater ave in	<u>-</u>	(pe	ercl	ned)	□	<b>&amp;J</b> Chief <b>IP</b> Edito 1 <b>2.25''</b> 1	r TA HSA	P F C	≀ig <u>C</u> !	ME-45		
The	strat l type	cificat es and	the t	lines trans	re re	pre: on n	sent the approximate boundary between							

Section	З,	Item	А.

Wisconsin Department of Commerce       SOIL AND SITE EVALUATION - STORM       Page       1       of       1         Division of Safety and Buildings       In accordance with SPS 382.365, 385, Wis. Adm. Code, and WDNR Standard 1002       VDNR Standard 1002       Image       1											
Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must									n		
include, but i percent slop	not limited e, scale or	to: vertical and horizontal dimensions, north arrow, a	reference point (BM), direct nd BM referenced to neare	an must stion and est road.		Parcel I.D.		291	I-0815-054	4-004	
		Please print all inform	nation.			Review by				Date	
Bronorty Ou	Personal info	ormation you provide may be used	for secondary purposes (Privac	y Law, s.15.04 (	1) (m)).	ion	600	Hoffmon	Pood / 67	lohnson Stroot	
Property Ov	vner				Property Locat	ion	600	nonman	Ruau / 072	2 Johnson Street	
Watertown C	Collective, L	LC			Govt. Lot		SE 1/4	4, SE 1/4,	S5 T8N R	15 E	
Property Ov	vner's Mai	ling Address			Lot #	Block #		Subo	d. Name o	r CSM#	
600 E. Main	Street, Sur	të 200									
		State	Zip Code Phone	Number	X City	Village	Town		Ne	arest Road	
Watertown		WI	55094			Watertown			Joh	inson Street	
Drainage ar	ea:		sg. ft. acres		Hydraulic Appl	ication Test Me	ethod	Soil Moi	sture		
J	-	<b></b> _						Date of s	soil boring	ıs: 9/15/23	
Test Site Su	itable for	(check all that apply)	Site not su	uitable	X Morpholog	ical Evaluation		USDA-N		S Value:	
	loretentio				Double-Rin	g Infiltrometer					
R	euse	Irrigation	Other					X Normal = 2			
					Other (Spe	cify)			Wet = 3		
		Y Daning									
SW-1 0	bs. #		urface Elev 812+	f4	Elevation of	limiting factor	806 5+ ft				
					Lievation of		<u>000.31</u> It	1	1 1		
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	% Fines	Hydraulic App. Rate Inches/Hr	
1	0-18	10YR3/2		SIL*	0,m	mfi	а	<5	80	0.13	
2	18-36	10YR4/4		LS*	0,sg	mfr	а	<5	20	1.63	
3	36-48	10YR4/4		с	0,m	mvfi	g	<5	90	0.07	
4	48-66	10YR3/3		SL	0,sg	mfr	g	<5	20	0.50	
5	66-126	10YR6/4	c,2,f 10YR7/2	CL	0,m	mfi	g	<5	70	0.03	
6	126-180	10YR6/1		L	0,m	mvfi	g	<5	60	0.24	
Comments:		* FILL Groundwate	er at 13 ft								
SW-2	he #	X Boring									
511-2 0	υ3. π	Pit Ground S	urface Elev. 812±	ft	Elevation of	limiting factor	809± ft				
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	% Fines	Hydraulic App. Rate Inches/Hr	
1	0-17	10YR2/2		SIL	0,m	mfi	g	<5	80	0.13	
2	17-36	10YR4/3 & 10YR3/2		SIC	0,m	mvfi	g	<5	90	0.07	
3	36-126	10YR6/4	c,2,f 10YR7/2	L	0,m	mfi	g	<5	60	0.24	
4	126-180	10YR6/2		SIL	0,m	mfi	g	<5	80	0.13	
Comments:		Wet soil at 4 ft		1	1	1		1	<u> </u>		
CST/PSS Na	ame (Pleas	se Print)		Signature					CS	T Number	
Paul J. Giese	e, CST			-	Paulstill	l			SP	-030800004	
Address	, = = .				Date Evaluation Conducted				Telephone Number		
Add 633									i eieh		
336 S. Curtis Road, West Allis, WI 53214						10/17/23 (414) 443-2000 SBD-10793 (R.01/17)					





#### Watertown YMCA

Storm Areas



HAR	woo	D	Storm S Project: Date:	Sewer Watert 2/16/2	Calculation	IS							Section 3, It
255 N 21st Street, I Pipe	Drainage Area	Runoff Coeffcient	Design St	orm:	Incremental Q	10 Year Pipe Slope	Pipe Size	Capacity Full	Capacity Full	Total Q	Flow Rate	Pipe n Value	Comments
107	(AC)		(min)	(in/hr)	(cfs)	(%)	(in)	(cfs)	(GPM)	(cst)	(GPM)	0.010	Evisting Dino flowing full
107	0.000	0.00	6.00	6.00	1.96	1.55	8	1.96	880	1.96	880	0.010	Existing Pipe flowing full
106	0.203	0.80	6.00	6.88	1.11	1.00	12	3.56	1598	3.07	1379	0.013	
105	0.338	0.74	6.00	6.88	1.72	1.00	15	6.46	2899	4.79	2151	0.013	
104	0.201	0.74	6.00	6.88	1.03	1.00	15	6.46	2899	5.82	2612	0.013	
103	0.204	0.75	6.00	6.88	1.06	1.00	18	10.50	4712	6.88	3086	0.013	
102	0.06	0.90	6.00	6.88	0.37	1.00	18	10.50	4712	7.25	3253	0.013	
101	0.014	0.90	6.00	6.88	0.09	1.00	18	10.50	4712	7.33	3292	0.013	
100A	0.858	0.82	6.00	6.88	4.83	1.00	15	6.46	2899	4.83	2169	0.013	
100	1.051	0.82	6.00	6.88	5.94	2.00	21	22.40	10053	18.11	8128	0.013	
201		#DIV/0!	6.00	6.88	14.15	5.51	18	24.65	11063	14.15	6351	2.013	10 year flow from basin
200A		#DIV/0!	6.00	6.88	3.69	1.00	15	6.46	2899	3.69	1656	3.013	GPM from Plumber
200					0.00	8.77	21	46.91	21053	17.84	8007	4.013	



#### LEGEND:

#### GENERAL NOTES AND SPECIFICATIONS: CIVIL SHEET INDEX: UTILITY GRADING SITE C1.10 PROJECT LOCATION AND GENERAL NOTES C1.11 SITE PLAN - OVERALL C1.12 SITE PLAN - SOUTH C1.21 SITE PLAN - SOUTH C1.21 GRADING PLAN - NORTH C1.21 GRADING PLAN - NORTH C1.21 GRADING PLAN - NORTH C1.22 GRADING PLAN - SOUTH C1.32 EROSICH CONTROL PLAN C1.40 EMOLITION PLAN C1.40 EMOLITION PLAN C1.40 EMOLITION PLAN C1.50 ENSTRUGTIVET TING SITE INFORMATION ON THIS PLAN WAS TAKEN FROM A SITE SURVEY PROVIDED BY SURVEY ENTERPRISES. THE ENGINEER MAKES NO WARRANTY OR REPRESENTATION REPRICE TO THE ACCURACY AND COMPLETENESS OF THE EXISTING CONDITIONS D OR NOT INDICATED ON THE ENGINEERING RUNG BY MORE WITHED. VERIFY THE LOCATION OF NO REPRESENTATION REPRESENTATION OF THE ENGINEERING RUNG PROVIDED. VERIFY THE LOCATION OF NO REPRESENTATION OF THE REPRESENTATION OF THE ENGINEERING RUNG PROVIDED. VERIFY THE LOCATION OF NO REPRESENTATION OF THE REPRESENTATION OF THE ENGINEERING RUNG PROVIDED. VERIFY THE LOCATION OF NO REPRESENTATION OF THE REPRESENT OF THE REPRESENTATION OF THE REPRESENT OF THE REPRESENTATION UTILITY TRENCHES SHALL BE MECHANICALLY COMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. EXISTING: EXISTING EXISTING FERENCE TO THE AC ED OR NOT INDICATED WATERMAIN MAJOR CONTOUR ALL MANHOLES, CATCH BASINS, INLETS, VALVES BOXES, ETC WITHIN THE PROJECT AREA SHALL BE RESET AND ADJUSTED TO MATCH FINISH GRADE. $\langle \chi \rangle$ EXISTING PARKING COUNT ---- E ----- BURIED ELECTRIC TBACKS AND EXIS MINOR CONTOUR — OVERHEAD WIRE — GAS LINE ALL EXCAVATED OR STRIPPED MATERIALS NOT BEING REPLACED IN UTILITY TRENCHES OR BEING USED FOR FILL SHALL BE REMOVED FROM THE SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER WORK, QUE EXISTING SIGN EXIST 100.00 EXISTING SPOT ELEVATION SANITARY SEWER BEFORE PROCEEDIN BE CONNECTED TO ( NOT BE AS INDICATE! EVALUATION. \_ st \_\_\_\_\_ st \_\_ - STORM SEWER Ġ. EXISTING ADA PARKING SPACE 15. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING & FOUNDATION DETAILS AND ORIENTATION. പ UTILITY POLE ALL ON-SITE CONCRETE CURB AND GUTTER TO BE 18" WIDE VERTICAL FACE, UNLESS OTHERWISE NOTED. REVERSE OR REGULAR STYLE CURB DENOTED ON PLANS. OPOSED: OPOSED ₩ LIGHT POLE MAJOR CONTOUR ALL UTILITY WATER CON STRUCTION IN WISCONSIN (2003) S AND THE DEPT. OF SAFETY AND 17. ALL CURB ELEVATIONS ARE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. SEE CURB DETAIL FOR TOP OF CURB ELEVATIONS. / $\otimes$ PARKING COUNT SANITARY MANHOLE MINOR CONTOUR ALL PERMITS MUST BE RECEIVED FROM THE MUNICIPALITY AND WONR (IF REQUIRED) PRIOR 1 THE START OF CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ALL APPLICABLE PERMITS ARE RECEIVED PRIOR TO STARTING CONSTRUCTION. 18. ALL CURB RADII ARE MEASURED TO THE FACE OF CURB UNLESS OTHERWISE NOTED. FIRE HYDRANT SPOT ELEVATION Ġ. ADA PARKING SPACE 19. CONTRACTOR SHALL MATCH PROPOSED CONCRETE CURB AND GUTTER, SIDEWALK AND PAVEMENT TO EXISTING IN ELEVATION AND ALIGNMENT. +\_100.0 WATER VALVE NOTIFY THE PUBLIC WORKS INSPECTION DEPT. AT LEAST 48 HOURS BEFORE STARTING CONSTRUCTION. +\_\_\_\_\_\_ 100.00 SIGN D DOOR ELEVATION \_\_\_\_ 20. REMOVAL OF CURB AND GUTTER, SIDEWALK AND PAVEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE WISCONSIN D.O.T. STORM SEWER STRUCTURE TRUNCATED DOMES +\_\_\_\_\_GR +\_\_\_\_\_100.00 GROUND GRADE AT BUILDING BACKFILL REQUIREMENTS AND ROADWAY/SIDEWALK RESTORATION SHALL ADHERE TO LOCA STANDARDS (GRANULAR BACKFILL UNDER OR WITHIN 5' OF CURBS, SIDEWALK, OR PAVEMEN SPOLI MAY BE USED ELSEWHERE: SLURRY BACKFILL WILL BE REQUIRED IN PUBLIC ROADW 21. ALL CONCRETE FOR CURB AND GUTTER, ROADWAY AND SIDEWALKS MUST CONFORM TO THE STANDARD SPECIFICATIONS FOR READY MIXED CONCRETE. MINIMUM 28 DAY COMPRESSIVE STRENGTH TEST MUST EQUAL 4000 PSI. +\_\_\_\_\_100.50T/C +\_\_\_\_100.00E/P SPOT ELEVATION (T/C - TOP OF CURB, E/P - EDGE OF PAVEMENT) WATERMAI ~1t ELECTRICAL LINE PAVEMENT MARKING DIRECTIONAL ARROWS ALL BUILDING UTILITIES SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. RETAINING WALL SPOT ELEVATION (T/W - GROUND GRADE AT TOP OF WALL, B/W - GROUN GRADE AT BOTTOM) 22. PROTECT ALL PROPERTY CORNERS. 100.50T/W — GAS — GAS — GAS LINE 23. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UTILITIES OR SITE IMPROVEMENTS, DOCUMENT ALL EXISTING DAMAGE PROR TO START OF CONSTRUCTION AND NOTIFY CONSTRUCTION MANAGER OF ANY FINDINGS. ALL PROPOSED WATERMAIN SHALL BE PVC SDR 18, CLASS 150, AWWA C900 WITH ELASTOMERIC JOINTS (UNLESS OTHERWISE NOTED). SAN \_\_\_\_ SAN \_\_\_\_ SAN \_\_\_\_ SANITARY SEWER FLARED END SECTION (PIPE SIZE, INVERT ELEVATION) +\_\_\_\_\_\_12\* FES +\_\_\_\_\_\_100.00B/W PROPOSED SANITARY SEWER PIPE SHALL BE PVC, ASTM D-3034, SDR 35 WITH RUBBER GASKETED JOINTS CONFORMING TO ASTM D-3212 (UNLESS OTHERWISE NOTED). 24. PROJECT SAFETY ON-SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR ~~ D DRAINAGE FLOW DIRECTION H WATER VALVE PROPOSED STORM SEWER SHALL BE PVC, ASTM D-3034, SDR 35 WITH RUBBER ELASTOMERIC JOINTS CONFORMING TO ASTM D-3212 (UNLESS OTHERWISE NOTED). AS-BUILTS ARE TO BE PROVIDED TO THE CLIENT TRACKING ANY CHANGES THAT OCCURRED DURING CONSTRUCTION. EMERGENCY OVERFLOW ROUTE øD STORM SEWER STRUCTURE 11. A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NONMETALLIC UTILITIES MUST BE PROVIDED. PROVIDE TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORT WITH THE PROVISIONS SECTIONS 182/0715(2R) OF THE STATE STATUTES. В FLARED END SECTION





C1.10

230049.00 Sheet No.:

SITE PLAN REVIEW

Sheet:

Scale

Date 02-23-2024 Project No.:

SCALE: 1" = 30

No: Date:

Revisions

PROJECT

LOCATION &

GENERAL NOTES

Description:

(Owner) Project No.:

ELEPHONE [414] 476.9500 FACSIMILE [414] 476.8582





Sheet No.:





230049.00 Sheet No.:





North







Sheet No.:







02-23-2024
Project Na:
230049.00
Sheet Na:
C1.22



#	Structure Details		
100A	00A CATCH BASIN - CURB RIM = 817.50 Pipe - 100A = 812.76 106		EXISTING CATCH BASIN RIM = 821.58 Pipe - 107 = 816.54 Pipe - 108 = 816.54
100	CATCH BASIN - CURB RIM = 817.50 Pipe - 101 = 810.91 Pipe - 100A = 812.00 Pipe - 100 = 808.28	107	CATCH BASIN RIM = 821.33 Pipe - 108 = 817.04 Pipe - 107 = 817.04
101	CATCH BASIN - CURB RIM = 818.86 Pipe - 102 = 811.81 Pipe - 101 = 811.82	200	CATCH BASIN RIM = 805.36 Pipe - 201 = 802.63 Pipe - 200A = 802.63 Pipe - 200 = 801.00
102	CATCH BASIN RIM = 822.10 Pipe - 103 = 813.72 Pipe - 102 = 813.72	200A	CATCH BASIN RIM = 809.06 Pipe - 2008 = 805.00 Pipe - 2008 = 805.00
103	CATCH BASIN RIM = 821.80 Pipe - 104 = 814.30 Pipe - 103 = 814.30 201	OUTLET CONTROL STRUCTURE RIM = 807.50 Pipe - 202 = 805.00 Pine - 201 = 805.00	
104 CATCH BASIN RIM = 821.80 Pipe - 105 = 814.90 Pipe - 104 = 814.90		202	CLEANOUT RIM = 809.00 Pipe - 202 = 805.00
105	CATCH BASIN RIM = 821.55 Pipe - 106 = 815.61 Pipe - 105 = 815.61		

Storm Pipe Table								
Pipe Name	Size	Material	Length	Slope	Description			
Pipe - 100	21	HDPE	14	1.98%				
Pipe - 100A	15	PVC	76	1.00%				
Pipe - 101	18	PVC	90	1.00%				
Pipe - 102	18	PVC	190	1.00%				
Pipe - 103	18	PVC	58	1.00%				
Pipe - 104	15	PVC	60	1.00%				
Pipe - 105	15	PVC	71	1.00%				
Pipe - 106	12	PVC	93	1.00%				
Pipe - 107	8	PVC	32	1.55%	EXISTING PIPE			
Pipe - 108	8	PVC	138	1.55%	EXISTING PIPE			
Pipe - 200	21	RCP	80	8.14%				
Pipe - 200A	15	PVC	237	1.00%				
Pipe - 200B	12	PVC	7	1.00%	PLUMBING PIPE			
Pipe - 201	18	PVC	43	5,51%				
Pipe - 202	6	HDPE	60	0.00%	PERFORATED UNDERDRAIN			

Scale: SCALE: 1" = 20" Revisions: No: Date:



NTS

#### EROSION CONTROL NOTES AND PHASING

- WDNR PERMIT COVERAGE IS REQUIRED. POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WONR.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT. SUMMIT PLAN REVISIONS OR AMENDMENTS TO THE BRIGHEER AT LEAST 5 DAYS PROR TO RELD IMPLEMENTATION. CONTRACTOR IS RESPONSIBLE OR ROX/TIME SITE INVESTMENT AN AT LEAST ADDRESS TO ANY ANY ANY ANY ANY ANY ANY ANY ANY
- CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS FTER A RUNNFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE FOR REQUEST. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS STEPS THAN INFORM
- BEEN 9 ARBILLED. 6. WINEN POSSIBLE FREEERVE EXISTING VEGETATION IESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-ORSTURENG CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERV TOPSOIL.
- REFER TO THE WONR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const\_standards.html
- INSTALL PERIMETER EROSION CONTROLS, (IF REQUIRED) AND TRACKOUT CONTROL PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING, USE WORN FECHNICAL STANDARD 11 TRACKOUT CONTROL AT CONSTRUCTION ENTRANCE(S) (IF REQUIRED).
- INSTALL INLET PROTECTION PROR TO LANC.DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON IN ET INSTALLATION, COMPLY WITH WORR TECHNICAL STANDARD STORM DRAIN INLET PROTECT FOR CONSTRUCTION SITES #1080.
- 0. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDINR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL, BIOLO.
- PERMITTING OF GROUNDWATER DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR. GROUNDWATER DEWATERING IS SUBJECT TO A DNR WASTEWATER (ISCHARGE PERMIT AND A DNR HIGH CAPACITY WELL APPROVAL IF CUMULATER UNIT COMPC APACITY IST OGEN OR NOR.
- PROVIDE ANTI-SCOLIR PROTECTION AND MAINTAIN NON-BROSIVE FLOW DURING DEWATERING, PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WORK TECHNICAL STANDARD DE-WATERING B1081. BIORETENTION BASIN WILL SERVE AS SEGMENT BASIN DURING CONSTRUCTION, INSTALL OUTLET CONTROL DE AND DE AND
- BLACE LENLING MASH MULL SERVE AS SEEMINET BASIN DURING CONSTRUCTION. INSTALL OUTLET CONTROL STRUCTURE: STORAGE LAYTER WITH, STREIS PASH AS SHOWN ON THE PLAN BUT DO ANT INSTALL ROBEREED SOL, AND STOME STORAGE LAYTER WITH, STREIS PASH AGADED AND STABLEZED, CONTACT THE ENGINEER PRIOR TO INSTALLING STORAGE STORAGE LAYTER AND ROOMEEREED SOL, UPPON APPROVAL FROM THE EXAMPLER REMOVE ACCUMULATED SEDMENT AND EXCAVATE BASIN TO BOTTOM ELEVATION SHOWN ON THE DETAILS, INSTALL UNDERDHAN, STORE STORAGE LAYTER, AND ENGINEERES DOL, MEDIOALTE MOTORTET THE BOTHER REMOVE
- VIGE. IN LIN IN KAIM MUNCH AND SEUMINET DURING CONSTRUCTION. REFERENCE THE WORK TECHNICAL STANDARD BIORETENTION FOR INFILTRATION # 1004. I. SYTALL, AND LANKTAN SILT FENCENON FER WORK TECHNICAL STANDARD SILT FENCE #1058. REMOVE SEDMIENT FROM BENNO SILT FENCES AND SEDMIENT BARRIERS BEFORE SEDMIENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OI THE FERCE AUDOR BARRIER #1471
- THE FEMCE AND/OR MARRIER HEIGHT. THE FEMCE AND/OR MARRIER HEIGHT. 15. REPAR BRAVS AND GAVE IN BLT FENCES AND MARRIERS IMMEDIATELY, REPLACE DECOMPOSING STRAW BALES INTPOCL BUE HETES INNOTICE, LOCATE, INSTALL, AND MAINTAIN STRAW BALES FER WORNT ECHARCH, STRAWBALE INTO AND THE HETES INNOTICE, LOCATE, INSTALL, AND MAINTAIN STRAW BALES FER WORNT ECHARCH, STRAWBALE INTO AND THE HETES INNOTICE INTO AND INTO
- DITCH CHECKS #102 10 CHECKS #102 10 NSTALL AND MANTAN PILER SOCKS IN ACCORDANCE WITH WORK TECHNICAL STANDARD INTERIM MANUFACTURED PENNETER CONTROL AND SLOPE INTERRUPTION PRODUCTS # 1071.
- 17. MMEENATELY STABLIZE STOCKPILES AND SIRVARIAND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMET CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- 8. IMMEDIATELY STABLEZ ALL DISTURBED AREAS THAT WILL REVAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN BETTEMBER 16 AND OCTOBER 16: DEMAIL SEED MIRED WITH WINTER WHEAT, ANNUAL DATS, OR ANNUAL INFECTOR WINDLEF FOR BEGY, MOD ODE, TYPE OCTOBER 15 THROUGH OLD WEATHER, STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION NOD SOL TYPE.
- REGION AND SOLL TYPE. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- 20. SNEEPICLEM UP ALL SEDMENT TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVEN BECKET THE END OF THE SAME WORKLIV OR AS DIRECTED BY THE WORKMANCPALITY. SEPARATE SWEPT MATERY (SOLE AND TRASH) AND DISPOSE OF APPROPRIATELY.
- CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL CONSTRUCTION SITES # 1088.
- 22. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, GO THER COSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNC INTO THE RECEIVING GHANREL.
  5. EPR MANA-LIMENE LEDE DI AND IN INSTI INFO ON CONSTRUCTED SUCCESSION OF CONSTRUCTION MATERIALS INTO DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNC INTO THE RECEIVING GHANREL.
- 55. FOR INVACIANTLE LED FLOW ON DESTURBED OR CONSTRUCTED SLOPES 41. OR CREATER OR AS SHOWN ON THE PLAYS, PRODUCE CLASS 11YME THE A WITH ACCELERATED ESEMANAELENTING IEROBANG CONTROL. MATTING, SELECT EROSION MATTING FROM WOOTS PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MANTAIN WITH TCH-INFLA\_STANDARD NOCICH-ANNEL EROSION MAT F1052.
- I. FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS (OR AS SHOWN ON THE PLANS), PROVIDE NORTH AMERICAN GREEN SC 50 (OR APPROVED EQUAL) FROSION CONTROL MATTING, INSTALL AND MAINTAIN PER WORR TECHNICAL STANDARD CHANNEL REVISION MAT 1903.
- 14. MAKE PROVISIONS FOR WATERING DURING THE FIRST & WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
- INSTAL ADDITIONAL EPORION AND BEDINKIN'E CONTROL MEASURES (SUCH AS TEMPORARY SEDINENT BASING DITCH OFECRE, ERSON CONTROL MATTING, SLIT FENCING, FILTER SOCKS, WATTLES, SWALES, ETC.), OR AS DIRECTED BY WORKINJACEPALITY
- Location: 672 Johnson Street Watertown, WI 53094 Key Plan:

[414] 476.9500 [414] 476.8582

ELEPHONE

WI 53233

5

C

HARWOOD

Consultant:

Project: Watertown YMCA

SITE PLAN REVIEW

Sheet:

#### EROSION CONTROL PLAN

Scale	c	North
SCAL	E: 1" = 50'	$\mathbb{U}$
Revis	ions:	
No:	Date:	Description:
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Date:		
02-	23-2024	

(Owner) Project No.:

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SILT FILTER FENCE

EROSION MAT

CONSTRUCTION ENTRANCE

INLET SEDIMENT GUARD



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EROSION CONTROL LEGEND

C1.30

Project No.:

230049.00





Sheet No.:



(Owner) Project No.:

Project No.:

230049.00 Sheet No.:



# Watertown YMCA

Johnson Street Watertown, WI 53094

# Site Plan Review 02-23-2024

# ARCHITECT:



## SHEET INDEX:

<u>CIVIL</u>

- C1.10 PROJECT LOCATION & GENERAL NOTES
- C1.11 SITE PLAN OVERALL C1.12 SITE PLAN - NORTH
- C1.12 SITE PLAN NORTH C1.13 SITE PLAN - SOUTH
- C1.20 GRADING PLAN OVERALL
- C1.21 GRADING PLAN NORTH C1.22 GRADING PLAN - SOUTH
- C1.30 EROSION CONTROL PLAN
- C1.40 DEMOLITION PLAN
- C1.50 EXISTING SURVEY C5.00 CONSTRUCTION DETAILS

### LANDSCAPING

L1.00	LANDSCAPE PLAN - OVERALL
L1.01	LANDSCAPE PLAN - NORTH
1102	

L1.02 LANDSCAPE PLAN - SOUTH L2.00 LANDSCAPE DETAILS & NOTES

ARCHITECTURAL

- A0.0 COVER SHEET
- A2.1 FIRST FLOOR PLAN OVERALL A2.2 SECOND FLOOR PLAN - OVERALL
- A4.0 EXTERIOR ELEVATIONS OVERALL

CIVIL/LANDSCAPING/SCTRUCTURAL/PLUMBING/MECHANICAL/ELECTRICAL/FIRE PROTECTION :





# **CONSTRUCTION MANAGER :**

# MaasBrothers Construction

ELECTRICAL "E" SERIES

ELECTRICAL "E" SERIES

MECHANICAL "M" SERIES

PLUMBING "P" SERIES













AN LEGEND		
WALL TAG. SEE WALL TYPES SHEET A10.0 KEYNOTE. SEE KEYNOTES, THIS SHEET.		DOOR PER TAG. SEE DOOR SCHEDULE SHEET A10.1 CMU WALL
WINDOW TAG. SEE SHEET A10.2 STRUCTURAL GRID		PRECAST CONCRETE WALL
		INTERIOR METAL STUD PARTITION WALL
WATER CLOSET	D	URINAL
CHILD SIZED SINK		CHILD SIZED WATER CLOSET
DRINKING FOUNTAIN	•••	KITCHEN SINK
SHOWER		FOLDING PARTITION
VANITY COUNTER & SINK		

GENERAL CONSTRUCTION NOTES:
EXISTING WALLS TO REMAIN
NEW WALL CONSTRUCTION
SEE SHEET T0.0 FOR ABBREVIATIONS AND SYMBOL LEGEND. 2. SEE SHEETS T0.x FOR CODE REVIEW. 3. ALIGNMENT OF NEW CONSTRUCTION TO EXISTING WALLS & COLUMNS SHALL BE ONE IN A MANNER AS TO VISIBLY ELIMINATE THE POINT OF CONTACT OR JOINT OF NEW AND EXISTING MATERIALS TO PROVIDE SMOOTH AND CONTINUOUS SURFACE. MAINTAIN APPROPRIATE FIRE-RATED
CONSTRUCTION AT DISTURBED AREAS. 4. WALLS ARE TO BE PARALLEL & PERPENDICULAR TO ADJACENT WALLS UNLESS OTHERWISE NOTED.
<ul> <li>ALIGN WALLS WHERE AFFARENT.</li> <li>5. ALL NEW INTERIOR WALLS ARE TO BE TYPE "S5" WALLS UNLESS OTHERWISE NOTED. WALL TYPES ARE LOCATED ON SHEET A10.1. SEE WALL TYPES FOR CONDITIONS AT CERAMIC TILED WALLS.</li> <li>6. PROVIDE BLOCKING AT ALL WALL HUNG EQUIPMENT AND FURNITURE AS REQUIRED.</li> <li>7. ALL WALLS WITHIN PROJECT SCOPE TO BE PATCHED AS NECESSARY TO COMPLETE "AS-NEW" ENVIRONMENT. THIS INCLUDES AREAS WHERE EQUIPMENT HAS BEEN REMOVED.</li> <li>8. ALL FLOORS ARE TO BE LEVEL AND CLEAN PRIOR TO INSTALLATION OF NEW FLOOR COVERINGS. ALL FLOOR SURFACES AND TRANSITIONS BETWEEN SURFACE TYPES SHALL COMPLY WITH ADA GUIDELINES</li> </ul>
9. WALL TYPES INDICATED BY SEE SHEET A10.1 FOR WALL TYPES. 10. ALL FLOOR ELEVATIONS ARE BASED OFF OF FIRST FLOOR ELEVATION OF 100'-0". ARCHITECTURAL ELEVATION 100'-0" CORRESPONDS TO CIVIL ELEVATION OF 1007.87' +/ 11. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
12. ALL FIRE EXTINGUISHER CABINETS (FEC) SHALL BE SEMI RECESSED ("SR FEC"), U.N.O. (SURFACE MOUNTED = "SM FEC", FULLY RECESSED = "REC FEC"). FEC'S IN RATED ENCLOSURE WALLS SHALL BE SURFACE MOUNTED
13. ALL ELECTRICAL PANELS LOCATED IN SPACES OTHER THAN DEDICATED ELECTRICAL CLOSETS OR NON-PUBLIC SPACES SHALL BE FULLY RECESSED.
<ul> <li>14. HINGE SIDE OF ROUGH OPENINGS FOR DOORS ARE TYPICALLY 4" FROM ADJACENT PERPENDICULAR</li> <li>WALL, UNLESS NOTED OTHERWISE</li> <li>15. SEE SPECIFICATION MANUAL FOR COLOR AND MATERIAL SCHEDULE AND ROOM FINISH SCHEDULE.</li> <li>16. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CONTINUOUS UTILITY SERVICE TO ALL SPACES</li> <li>ON THE SITE NOT AFFECTED BY THE WORK. ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM</li> <li>THE WORK MUST BE COORDINATED WITH OWNER AND ADJACENT PROPERTY OWNERS IN ADVANCE.</li> <li>17. CONTRACTOR SHALL REPLACE, AT NO COST TO THE OWNER, ANY AND ALL SITE MATERIALS</li> <li>DAMAGED DUE TO THE CONSTRUCTION PROCESS WHICH WERE NOT SCHEDULED TO BE</li> </ul>
18. COORDINATE FINAL SIZES AND LOCATIONS OF ALL CONCRETE PADS WITH THE HVAC CONTRACTOR. CONCRETE PADS SHALL BE BY DIV 3, UNO. 19. ANY WALL SHOWN ON THE PLANS WITHOUT A WALL TAG IS ASSUMED TO BE TYPE 1 IF GRAPHICALLY INDICATED AS GYP BOARD & METAL STUD, AND TYPE 11 IF GRAPHICALLY INDICATED AS MASONRY. IF MASONRY INFILL WALL IS NOT TAGGED, IT SHALL BE ASSUMED TO MATCH THE WIDTH OF THE EXISTING WALL. SEE SHEET T0.0 FOR GRAPHIC LEGEND.
20. ALL GYPSUM BOARD SHALL BE MOLD RESISTANT. SEE WALL TYPES FOR ADDITIONAL GYP BOARD

REQUIREMENTS. 21. CERTAIN PLUMBING, ELECTRICAL AND MECHANICAL ELEMENTS, SUCH AS ROOF CONDUCTORS, STANDPIPES, CABINET UNIT HEATERS AND ELECTRICAL PANELS MAY OR MAY NOT BE SHOWN ON THE ARCHITECTURAL PLANS. THESE ARE SHOWN FOR COORDINATION ONLY. ALL CONTRACTORS MUST REVIEW ALL SHEETS FOR ALL REQUIRED WORK. 22. WHERE MASONRY IS REMOVED AND BACKPATCHED, OR WHERE OPENINGS ARE FILLED, PROVIDE MASONRY AND GROUT TO MATCH. TOOTH IN ALL INFILL SO AS TO CREATE A SEAMLESS END

PRODUCT.









# 1 / A2.



	KEYNOTES PER SHEET
Key Value	Keynote Text

FLOOR PL	AN LEGEND		
<b>#</b> >	WALL TAG. SEE WALL TYPES SHEET A10.0	#	DOOR PER TAG. SEE DOOR SCHEDULE SHEET A10.1
#	KEYNOTE. SEE KEYNOTES, THIS SHEET.		CMU WALL
$\langle \# \rangle$	WINDOW TAG. SEE SHEET A10.2		
#	STRUCTURAL GRID		PRECAST CONCRETE WALL
			INTERIOR METAL STUD PARTITION WALL
	WATER CLOSET	D	URINAL
	CHILD SIZED SINK		CHILD SIZED WATER CLOSET
	DRINKING FOUNTAIN		KITCHEN SINK
	SHOWER		FOLDING PARTITION
Ð	VANITY COUNTER & SINK		















WEST EXTERIOR ELEVATION 3/32" = 1'-0"

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## Materials Key

- 01 Spandrel Glass
- 02 Vision Glass
- 03 Wood Look Plank Metal Siding System
- 04 Solid Tan Metal Plank Siding System
- 05 Buff Precast Panel
- 06 Slate Grey Metal Panel Siding System
- 07 Wood Look Metal Vertical Louver System
- 08 Vision Glass
- 09 Light Grey Metal Mechanical Screen



	Sectio	on 3, Item A.
ZIMBRADAD Architectural studios, INC.	2122 W. Mount Vernon Avenue   Milwaukee, WI 53233   zastudios.com	TELEPHONE [414] 476.9500 FACSIMILE [414] 476.8582
Consultant:	Sukee, WI 53	<b>DOD</b> 233 414-475-5554
Project: Watertown YMC	A	
Location: Johnson Street Watertov	vn, WI 5	3094
Key Plan:		
SITE PLAN RE	VIEV	V
<sup>Sheet:</sup> EXTERIOR ELE OVERALL	VATI	ONS -
Scale:		
S/SZ   - 1 -0     Revisions:   No:       No:   Date:	Desc	ription:
Date: 02-23-2024		
Project No.: 230049.00	(Owner	) Project No.: –
A4.0		101

# Watertown Community Health Foundation Watertown YMCA

Johnson Street Watertown, WI 53094 Site Plan Review 02-23-2024



#### SHEET INDEX:



L1.00 LANDSCAPE PLAN - OVERALL L1.01 LANDSCAPE PLAN - NORTH L1.02 LANDSCAPE PLAN - SOUTH L2.00 LANDSCAPE DETAILS & NOTES

ARCHITECTURAL

A0.0 COVER SHEET A2.1 FIRST FLOOR PLAN - OVERALL A2.2 SECOND FLOOR PLAN - OVERALL A4.0 EXTERIOR ELEVATIONS - OVERALL









GENERAL CONSTRUCTION NOTES:

EXISTING WALLS TO REMAIN NEW WALL CONSTRUCTION

- SEE SHEET TOJE FOR ADBREVIATIONS AND SYNBOL LEGEND. 2. SEE SHEET TOJE FOR ADBREVIATIONS AND SYNBOL LEGEND. 3. SEE SHEET STAJE FOR CODE REVEWUX. 3. ALIONBART OF REVICONTIG TO DISTING WALLS & COLLIAINS SHALL BE ONE IN A MANNER AST TO VIEW L'ELIMINATE THE PONT OF COSTING TO AND TO REW WALD EXSTING MATERINA STO STATUSTICH TO THE STATUSTICE CONTIGUES CONTACT OR ADDREVIA TO THE STATUSTICE THE STATUST 4. WALLS ARE TO BE PARALLEL & REPRENDICILAR TO ADJACENT WILLS INCESS OTHERMISE NOTED LONG WILLS WITHER PAPAREIT. 4. WALLS ARE TO BE PARALLEL & REPRENDICILAR TO ADJACENT WILLS WILLS STATUSTICE TO WILL TO ADJACENT MALTON THE STATUSTICE OF TO BE PATCHED AS A DECEMBENT AND THE MAIL TO ADDREVE DISLOTATION ALL WILL HANG BEUTINEST AND ENTRUMINE AS RECUDENT. 7. ALL WILLS WITHIN PROJECT SCORE TO BE PATCHED AS NECESSARY TO COMPLETE AS-NEW MENDRINGH TICK STALLESS AND TINNISTIONS BETWEEN SAFELES MENTRUMONT. ALL PADOS BURFARESS AND TINNISTIONS BETWEEN SAFEAT PIPES SHALL COMPLY WITH ADA DIDELEMENT.
- UDELINES. WALL TYPES NICATED BY SEE SHEET A10.1 FOR WALL TYPES. ALL FLOOR ELEVATIONS ARE BASED OF OF FIRST FLOOR ELEVATION OF 10-0°. ARCHITECTURAL EVATION 10° OF CORRESPONDS TO OLVIL ELIVATION OF 10078 r<sup>-1</sup>. CONTRACTOR SHALL VERIPY ALL EXISTING DIREISIONS, ELEVATIONS AND CONDITIONS PRIOR TO MARCHING CONSTRUCTION. CONTRACTOR SHALL NOTIF ACHITECT IMMEDIATELY OF ANY
- 6. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CONTINUOUS UTILITY SERVICE TO ALL SP SON THE STEE NOT AFECTED BY THE WORK. AN'D SARPTION IN SERVICES REQUIRED TO PERF THE WORK MUST BE COORDINATED WITH OWNER AND ADJACENT PROPERTY OWNERS IN ADJAU TO CONTRACTOR SHALL REPLACE, AT NO COST TO THE CONTRE, MAY ADJALIS TE MATERIALS JAMAGED DUE TO THE CONSTRUCTION PROCESS WHICH WERE NOT SCHEDULED TO BE BOULUSIED OR REMOVED.
- DEMOLISHED OR REMOVED IE CORENNE TRANSMITTER AND ADDRESS AND LOCATION OF ALL CONCRETE PAGS WITH THE HIVE CONTRACTOR. IE CORENNE TRANSMITTER AND ADDRESS AND ADDRESS AND THE TIE GRANNEL VIECUTET AND ADDRESS AND
- A CONSISTENT DAMAGE AND A REAL MEMORY RESISTANT, SEE YOR LITTES YOR AND INTONE, UTF DAWA 2. CORTANN LINNERS RESTREAL AND REAL MEMORY RELEASED AND REAL MEMORY RESISTANT 2. CORTANN LINNERS RESTREAL AND RELEASED AND RESISTANT OR LINN YOR SHAWN TO BE SHOWN ON THE ARCHITECTURAL HURST HEER ARE DESIGNED WORK. MUST REVIEW ALL SHEETS FOR ALL REQUIRED WORK. 2. WHEEM MAJORY IS REVIEWS AND REAL REQUIRED WORK. 2. WHEEM MAJORY IS REVIEWS AND REAL REQUIRED WORK. 2. WHEEM MAJORY IS REVIEWS AND REAL REQUIRED WORK. 2. WHEEM MAJORY IS REVIEWS AND REAL REQUIRED WORK. MAJORY AND GROUT TO MATCH. TOOTH IN ALL INFILIS DA STO CREATE A SEAMLESS END PRODUCT.

ZIRPHOLE TURAL STUDIOS, INC. 2122 W MONTVERGE ANNUEL STUDIOS, INC. 2122 W MONTVERGE ANNUEL MARKEE, WESSEL FACSIMUE FINAL
Consultant: HARWOOD 28 N 21tt Rotert Milliouders, WI 5223 414-07-6564
Project: Watertown YMCA
Location: Johnson Street Watertown, WI 53094 Key Plan: North Owfh North
SITE PLAN REVIEW
Sheet: FIRST FLOOR PLAN - OVERALL
Scale: As indicated Revisions:
No: Date: Description:
Date: 02-23-2024
Project No.: (Owner) Project No.: - 230049.00 - Sheet No.:
A2.1



ZIMBERMAN Architectural studios, inc	2122 W. Mount Verrion Avenue   Mivraukee, WI 52233   zastudios.com TELEPHONE   #14  4 76 : 9500 FACSIMILE   #14  4 78 : 6582
Consultant HARRV 28 X Tore Meaded Project: Watertown YMCA	VOOD AWISSII AL-OF-554
Location: Johnson Street Waterbwn,	WI 53094
Key Plan:	True Plan North North
	AREA C
STE PLAN R Sheet SECOND FLOOR OVERALL	PLAN -
Scale: As indicated	
Revisions: No: Date:	Description:
Date:	
02-23-2024 Project No.: (C	wner) Project No.:
230049.00 Sheet No.:	-
A2.2	











#### Materials Key

- 01 Spandrel Glass
- 02 Vision Glass
- 03 Wood Look Plank Metal Siding System
- 04 Solid Tan Metal Plank Siding System
- 05 Buff Precast Panel
- 06 Slate Grey Metal Panel Siding System
- 07 Wood Look Metal Vertical Louver System

Second Floor 114'-0"

First Floor 100'-0"

- 08 Vision Glass
- 09 Light Grey Metal Mechanical Screen



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EXTERIOR ELEVATIONS -OVERALL

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- 25' REAR BUILDING SETBACK

### LA SHEET INDEX

L1.00	LANDSCAPE PLAN - OVERALL
L1.01	LANDSCAPE PLAN - NORTH
L1.02	LANDSCAPE PLAN - SOUTH
L2.00	LANDSCAPE DETAILS & NOTES

## LEGEND



EXISTING TREES TO REMAIN



### LANDSCAPE REQUIREMENTS

Code Category	Measurement	Ratio	Requirement	Provided	
Building Foundation	840 LF	40 PTS / 100 LF	336 PTS	L1.01 =	336 PTS
Street Frontage	653 LF	40 PTS / 100 LF	261 PTS	L1.01 = <u>L1.02 =</u> Total =	90 PTS 225 PTS 315 PTS
Paved Areas	333 Stalls	80 PTS / 20 Stalls	1,332 PTS	L1.01 = L1.02 = Total =	355 PTS <u>1,069 PTS</u> 1,424 PTS
Building Floor Area	40,121 SF	15 PTS / 1,000 SF	602 PTS	L1.01 = <u>L1.02 =</u> Total =	195 PTS 450 PTS 645 PTS

#### **GENERAL NOTES**

Lawn areas to be seeded with premium commercial grade bluegrass seed mix, see specifications.

Plant beds, parking lot islands and maintenance strips to receive a 3-4" deep layer of shredded hardwood mulch.

All plantings shall comply with standards as described in the American Standard of Nursery Stock - ANSI Z60.1 (Latest Version)

Caution: underground utilities are present on site. The Contractor shall verify location of all above- and below-grade utilities, both public & private, prior to commencement of site construction. If unanticipated above- or below-grade conditions are encountered, notify Client & Landscape Architect prior to proceeding. Coordinate with local public utility locating entity as needed.

Contractor to limit construction traffic to within work areas. All adjacent damage shall be the responsibility of the contractor to restore.









### PLANT SCHEDULE BUILDING FOUNDATION

ORNAMENTAL TREES ABS	QTY 3	<u>COMMON NAME</u> Autumn Brilliance Apple Serviceberry	BOTANICAL NAME Amelanchier x grandiflora 'Autumn Brilliance'	<u>SIZE</u> 7` Ht.	<u>ROOT</u> B&B	<u>SPACING</u> As Shown	<u>POINTS PER</u> 10	<u>TOTAL PO</u> 30
АМН	1	American Hornbeam/Musclewood	Carpinus caroliniana	2" Cal.	B&B	As Shown	10	10
EVERGREEN TREES EGA	QTY 3	<u>COMMON NAME</u> Emerald Green Arborvitae	<u>BOTANICAL NAME</u> Thuja occidentalis 'Smaragd'	<u>SIZE</u> 5` Ht.	<u>ROOT</u> B&B	SPACING As Shown	12	36
ТА	3	Techny Arborvitae	Thuja occidentalis 'Techny'	5` Ht.	B&B	As Shown	12	36
DECIDUOUS SHRUBS ACD	<u>QTY</u> 1	COMMON NAME Dwarf Red Twig Dogwood	BOTANICAL NAME Cornus sericea 'Alleman's Compact'	<u>SIZE</u> 36" Ht.	ROOT B&B	SPACING As Shown	5	5
CSH	23	Cool Splash False Honeysuckle	Diervilla sessilifolia 'Cool Splash'	18" Ht.	Cont.	As Shown	1	23
АН	19	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	24" Ht.	Cont.	As Shown	1	19
LQH	10	Little Quick Fire Hydrangea	Hydrangea paniculata 'SMHPFL'	24" Ht.	Cont.	As Shown	1	10
GLS	7	Gro-Low Fragrant Sumac	Rhus aromatica 'Gro-Low'	18" Ht.	Cont.	As Shown	1	7
GFS	20	Goldflame Spirea	Spiraea x bumalda 'Goldflame'	24" Ht.	Pot	As Shown	1	20
EVERGREEN SHRUBS HY	QTY 5	<u>COMMON NAME</u> Hicks Japanese Yew	<u>BOTANICAL NAME</u> Taxus x media 'Hicksii'	<u>SIZE</u> 36" Ht.	ROOT B&B	SPACING As Shown	12	60
TY	16	Taunton's Japanese Yew	Taxus x media 'Tauntonii'	24" Sprd.	Cont.	As Shown	5	80
<u>ORNAMENTAL GRASSES</u> KFG	<u>QTY</u> 15	<u>COMMON NAME</u> Karl Foerster Feather Reed Grass	<u>BOTANICAL NAME</u> Calamagrostis x acutiflora 'Karl Foerster'	<u>SIZE</u> 1 Gal.	<u>ROOT</u> Pot	<u>SPACING</u> 24" o.c.	-	-
LBS	43	Little Bluestem	Schizachyrium scoparium	1 Gal.	Pot	24" o.c.	-	-
PDG	41	Prairie Dropseed	Sporobolus heterolepis	1 Gal.	Pot	18" o.c.	-	-
<u>PERENNIALS</u> KKC	<u>QTY</u> 48	<u>COMMON NAME</u> Kim's Knee High Coneflower	BOTANICAL NAME Echinacea purpurea 'Kim's Knee High'	<u>SIZE</u> 4.5"	ROOT Pot	<u>SPACING</u> 18" o.c.	-	-
HRD	12	Happy Returns Daylily	Hemerocallis x 'Happy Returns'	4.5"	Pot	18" o.c.	-	-
JPD	12	Just Plum Happy Daylily	Hemerocallis x 'Just Plum Happy'	4.5"	Pot	18" o.c.	-	-
RRD	24	Rosy Returns Daylily	Hemerocallis x 'Rosy Returns'	4.5"	Pot	18" o.c.	-	-
РСВ	6	Palace Purple Coral Bells	Heuchera micrantha 'Palace Purple'	4.5"	Pot	18" o.c.	-	-
SGH	13	Stained Glass Hosta	Hosta x 'Stained Glass'	4.5"	Pot	24" o.c.		<u>-</u> 336

#### PLANT SCHEDULE STREET FRONTAGE - NORTH

ORNAMENTAL TREES       QTY       COMMON NAME       BOTANICAL NAME       SIZE       ROOT       POINTS PER       TOTAL POINTS         SC       6       Sargent Cherry       Prunus sargentii       2" Cal.       B&B       15       90	<u>ORNAMENTAL TREES</u> SC	QTY 6	COMMON NAME Sargent Cherry	BOTANICAL NAME Prunus sargentii	<u>SIZE</u> 2" Cal.	<u>ROOT</u> B&B	<u>POINTS PER</u> 15	<u>TOTAL POINTS</u> 90	
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PLANT SCHEDULE PAVED AREA - NORTH

DECIDUOUS TREES FFM	<u>QTY</u> 2	<u>COMMON NAME</u> Fall Fiesta® Sugar Maple	<u>BOTANICAL NAME</u> Acer saccharum 'Bailsta'	<u>SIZE</u> 2" Cal.	<u>ROOT</u> B&B	<u>SPACING</u> As Shown	<u>POINTS PER</u> 75	<u>TOTAL F</u> 150
AFM	1	Armstrong Freeman Maple	Acer x freemanii 'Armstrong'	2" Cal.	B&B	As Shown	30	30
<u>EVERGREEN TREES</u> MBJ	QTY 3	COMMON NAME Mountbatten Juniper	BOTANICAL NAME Juniperus chinensis 'Mountbatten'	<u>SIZE</u> 5` Ht.	<u>ROOT</u> B&B	SPACING As Shown	12	36
DECIDUOUS SHRUBS GLS	<u>QTY</u> 14	COMMON NAME Gro-Low Fragrant Sumac	BOTANICAL NAME Rhus aromatica 'Gro-Low'	<u>SIZE</u> 18" Ht.	<u>ROOT</u> Cont.	SPACING As Shown	1	14
AWS	45	Anthony Waterer Spiraea	Spiraea x bumalda 'Anthony Waterer'	18" Ht.	Cont.	As Shown	1	45
<u>EVERGREEN SHRUBS</u> KCJ	<u>QTY</u> 16	COMMON NAME Kallay's Compact Pfitzer Juniper	BOTANICAL NAME Juniperus x pfitzeriana 'Kallay's Compact'	<u>SIZE</u> 24" Sprd.	<u>ROOT</u> Cont.	SPACING As Shown	5	80
ORNAMENTAL GRASSES PDG	<u>QTY</u> 42	COMMON NAME Prairie Dropseed	BOTANICAL NAME Sporobolus heterolepis	<u>SIZE</u> 1 Gal.	<u>ROOT</u> Pot	<u>SPACING</u> 18" o.c.	-	-
<u>PERENNIALS</u> HRD	<u>QTY</u> 23	COMMON NAME Happy Returns Daylily	BOTANICAL NAME Hemerocallis x 'Happy Returns'	<u>SIZE</u> 4.5"	<u>ROOT</u> Pot	<u>SPACING</u> 18" o.c.	-	-
JPD	22	Just Plum Happy Daylily	Hemerocallis x 'Just Plum Happy'	4.5"	Pot	18" o.c.	-	-
RRD	22	Rosy Returns Daylily	Hemerocallis x 'Rosy Returns'	4.5"	Pot	18" o.c.	-	-
LRS	44	Little Spire Russian Sage	Perovskia atriplicifolia 'Little Spire'	4.5"	Pot	18" o.c.		

#### PLANT SCHEDULE DEVELOPED LOTS - NORTH

DECIDUOUS TREES	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>SIZE</u>	ROOT	<u>SPACING</u>	<u>POINTS PER</u>	<u>TOTAL POINTS</u>
SWO	1	Swamp White Oak	Quercus bicolor	2" Cal.	B&B	As Shown	75	75
EVERGREEN TREES	QTY	COMMON NAME	BOTANICAL NAME	<u>SIZE</u>	<u>ROOT</u>	<u>SPACING</u>	40	<u>    120     </u>
WS	3	White Spruce	Picea glauca	7` Ht.	B&B	As Shown		195



POINTS





#### PLANT SCHEDULE STREET FRONTAGE - SOUTH

<u>DECIDUOUS TREES</u>	QTY	<u>COMMON NAME</u>	<u>BOTANICAL NAME</u>	<u>SIZE</u>	<u>ROOT</u>	SPACING	<u>POINTS PER</u>	<u>TOTAL POINTS</u>	
AGG	3	Autumn Gold Maidenhair Tree	Ginkgo biloba 'Autumn Gold' TM	2" Cal.	B&B	As Shown	75	225	

#### PLANT SCHEDULE PAVED AREA - SOUTH

DECIDUOUS TREES FFM	<u>QTY</u> 5	<u>COMMON NAME</u> Fall Fiesta® Sugar Maple	BOTANICAL NAME Acer saccharum 'Bailsta'	<u>SIZE</u> 2" Cal.	<u>ROOT</u> B&B	SPACING As Shown	POINTS PER 75	<u>TOTAL F</u> 375
AFM	2	Armstrong Freeman Maple	Acer x freemanii 'Armstrong'	2" Cal.	B&B	As Shown	30	60
СНВ	4	Common Hackberry	Celtis occidentalis	2" Cal.	B&B	As Shown	30	120
RL	2	Redmond Linden	Tilia x 'Redmond'	2" Cal.	B&B	As Shown	30	60
DECIDUOUS SHRUBS GLS	<u>QTY</u> 85	<u>COMMON NAME</u> Gro-Low Fragrant Sumac	BOTANICAL NAME Rhus aromatica 'Gro-Low'	<u>SIZE</u> 18" Ht.	<u>ROOT</u> Cont.	<u>SPACING</u> As Shown	1	85
AWS	39	Anthony Waterer Spiraea	Spiraea x bumalda 'Anthony Waterer'	18" Ht.	Cont.	As Shown	1	39
EVERGREEN SHRUBS KCJ	<u>QTY</u> 66	<u>COMMON NAME</u> Kallay's Compact Pfitzer Juniper	<u>BOTANICAL NAME</u> Juniperus x pfitzeriana 'Kallay's Compact'	<u>SIZE</u> 24" Sprd.	<u>ROOT</u> Cont.	<u>SPACING</u> As Shown	5	330
ORNAMENTAL GRASSES PDG	<u>QTY</u> 42	COMMON NAME Prairie Dropseed	BOTANICAL NAME Sporobolus heterolepis	<u>SIZE</u> 1 Gal.	<u>ROOT</u> Pot	<u>SPACING</u> 18" o.c.	-	-
PERENNIALS HRD	<u>QTY</u> 24	<u>COMMON NAME</u> Happy Returns Daylily	<u>BOTANICAL NAME</u> Hemerocallis x 'Happy Returns'	<u>SIZE</u> 4.5"	ROOT Pot	<u>SPACING</u> 18" o.c.	-	-
JPD	24	Just Plum Happy Daylily	Hemerocallis x 'Just Plum Happy'	4.5"	Pot	18" o.c.	-	-
RRD	24	Rosy Returns Daylily	Hemerocallis x 'Rosy Returns'	4.5"	Pot	18" o.c.	-	-
LRS	88	Little Spire Russian Sage	Perovskia atriplicifolia 'Little Spire'	4.5"	Pot	18" o.c.		 1,069

<u>DECIDUOUS TREES</u>	QTY	<u>COMMON NAME</u>	BOTANICAL NAME	<u>SIZE</u>	<u>ROOT</u>	SPACING	<u>POINTS PER</u>	<u>TOTAL POIN</u>	TS
SWO	3	Swamp White Oak	Quercus bicolor	2" Cal.	B&B	As Shown	75	225	
RO	3	Red Oak	Quercus rubra	2" Cal.	B&B	As Shown	75	<u>225</u> 450	




## **General Notes**

- 1.01 All landscape installation & maintenance to conform with all applicable local codes & ordinances, including (but not limited to) select portions of City of Watertown Municipal Code.
- 1.02 See Site dwgs. for work limits, scope of construction, hardscape, dimensions &/or construction notes. See Civil dwgs. for all hardscape, grading, stormwater management, site utilities & erosion control. See Landscape dwgs. for landscape plans, site amenities, details, schedules, notes. See Architectural dwgs. for all construction. See Electrical drawings for all power, circuiting, lighting & security. See Mechanical drawings for other site equipment.
- 1.03 Contractor shall provide shop drawings and material submittals of **all** hardscape & landscape construction elements shown in plan set for Landscape Architect review prior to construction.
- 1.04 Contractor to provide samples for Landscape Architect's approval on all colors, finishes & materials prior to construction, including (but not limited to) topsoil, gravels, mulches, seed mixes et al. 1.05 Caution: underground utilities are present on site. The Contractor shall verify location of all above- and
- below-grade utilities, both public & private, prior to commencement of site construction. If unanticipated above- or below-grade conditions are encountered, notify Client & Landscape Architect prior to proceeding. Coordinate with local public utility locating entity as needed.
- 1.06 Contractor to verify hardscape layout prior to construction. Contact Landscape Architect if discrepancies are found.
- 1.07 Contractor to limit construction traffic to within work limit lines. All adjacent damage shall be the responsibility of the contractor to restore. See Civil drawings for limits of disturbance.
- 1.08 All written dimensions supersede scaled dimensions. All dimensions are taken from face of curb, wall or existing building foundations.

## Landscape Notes

- 2.01 Rough grading & topsoil import/spreading are to be completed by others. Finish grading, seed area and planting bed preparation shall be the landscape contractor's responsibility. Verify all existing site and grading conditions prior to construction.
- 2.02 All areas disturbed by site construction shall be fine graded and restored with vegetative cover as shown. See plans for cover types & locations, see specifications for materials & installation.
- 2.03 Contractor shall verify plant quantities shown on plan. Symbol quantities take precedence over plant keys, except as noted in the plant schedule. Contractor shall forward a material list to the Landscape Architect prior to construction identifying species, sizes & plant sources to be used on the project.
- 2.04 All plant materials shall conform to the schedule and shall meet quality requirements outlined in the ANLA "American Standard for Nursery Stock", ANSI Z60.1-2004. The Landscape Architect reserves the right to reject any substandard planting material. Such rejected material shall be removed from the project site immediately.
- 2.05 An Owner's representative shall be allowed to inspect and approve trees at the nursery prior to delivery to the site.
- 2.06 All nursery tags/labels shall be left on plant materials until the project punch-list inspection is completed by the Landscape Architect. Untagged materials will be assumed to be deficient.
- 2.07 Topsoil requirements:

- All planting beds shall contain screened blended topsoil mix to a min. depth of 18". All turf, low-mow & shortgrass prairie areas shall have min. 6". Existing topsoil meeting project specifications may be stripped, stored & re-used if previously approved. Contractor shall remove all excessive clay, gravel & stones detrimental to healthy plant growth. Contractor shall remove all debris greater than 1" diameter.

- Contaminated soil shall be removed from the project site if discovered. - Subgrade shall be tilled and/or scarified prior to placement of topsoil. - Contractor shall be responsible for obtaining soil tests for existing or imported topsoil. Soil testing results shall include (but are not limited to) soil pH, % organic matter, % nitrogen / phosphorus / potassium, % calcium, and soil texture (percentages of sand, silt and/or clay.) Soil testing shall include recommendations for soil amendments if required to support growth of standard ornamental landscape materials.

2.08 Contractor is responsible for ensuring that all tree pits & planting areas drain properly. Notify Landscape

- Architect if drainage or moisture problems are encountered while planting. 2.09 Contractor shall backfill all trees, shrubs & evergreens with a mix of 1/3 plant starter mix & 2/3 remaining
- soil. Plant Starter Mix shall be 40% organic black topsoil, 30% sphagnum moss, 20% composted manure & 10% coarse sand by volume. Submit material information for review.
- fertilizer, rototilled into the top 6" of blended topsoil in beds.
- 2.11 Unless otherwise shown, all perennials & shrubs to be planted in triangular arrangements. For plants not shown individually, refer to the spacing shown in the plant schedule.
- 2.12 Mulch: All tree circles, planting beds and maintenance strips to receive a 3" deep layer of high quality

shredded hardwood bark mulch.

- 2.13 Plant Bed Edging: Edge all planting beds and maintenance strips with a 4" deep spaded edge (shovel cut or mechanical). Bedlines are to be cut per plan. A clean definition between the lawn and plant bed is required.
- 2.14 Contractor shall provide positive drainage away from all structures for a minimum of 10'.
- 2.15 Contractor shall be responsible for providing base bid comprehensive landscape establishment, maintenance and warranty care for one year after installation. Work shall include all watering (as needed for establishment), weeding (once monthly), pruning (twice per season), fertilizing (twice per season), pest management (as needed, min 3 visits per season) and spring / fall clean-ups. Prior to beginning installation, the contractor shall submit a 12-mo. calendar for review/approval including all anticipated maintenance activities & dates.





2.10 All perennial and groundcover areas shall receive a 3" layer of plant starter mix and perennial starter

Seeding Notes & Mixes

- 3.01 This work shall consist of preparing the seed beds and furnishing, sowing and mulching the required seed on the various seeded areas, as outlined in the site plans and specifications. All turf restoration shall be seeded turf unless otherwise noted.
- 3.02 Rough grading, drainage work, topsoiling and fine grading shall be completed before sowing the seed mixes. The areas to be seeded shall be worked with plow chisels, discs & harrows, soil finishers and/or other appropriate equipment until a reasonably even and loose seedbed is obtained. Seed beds shall be prepared immediately in advance of the seeding. If proposed seed areas are weedy, contractor to apply herbicide or other weed control measures to eliminate weeds. Conform with seed supplier's specifications if required.
- 3.03 Confirm that anticipated project schedule date(s) fall within the respective seed supplier's approved calendar prior to installation. Installations completed outside of acceptable seeding dates shall be the performed at the sole responsibility and expense of the contractor. For dormant seeding, a min. of one over-seed application in the following season will be required.
- 3.04 Seeds shall be PLS and will be mixed in accordance w/mfr's specifications. Provide invoices, bag-tags or mix analysis results for approval prior to installation.
- 3.05 The seed mixtures shall be sown by means of equipment adapted to the purpose. Mechanical distribution of seed (i.e. Truax seed drill, Brillion seeder, cultipacker, slit-seeder, drop spreader or broadcast spreader) are the only accepted methods. No hand-broadcasting of seed.
- 3.06 No seeding shall occur if the wind exceeds 12 MPH.

3.07 Coordinate erosion control and/or mulching with Civil dwgs:

- In sloped areas steeper than 4:1, erosion matting shall be installed by others. Landscape installation shall be coordinated with the erosion control contractor. - In areas with slopes between 4:1 and 8:1, landscape contractor shall apply clean hay or straw mulch, free of debris and seeds, on all newly seeded areas. Mulch shall be uniformly spread over the designated area at a rate of 55 bales per acre or as indicated in the respective seed supplier's specifications. Mulch material shall be chopped and blown into the seeded area. - Lightweight E.C. matting and/or hydromulch will be accepted as a no-cost alternate if approved by Landscape Architect prior to application.

- 3.08 See Civil dwgs for erosion control devices. Coordinate with erosion control contractor where required to ensure that topsoil, seeding and/or mat installations are properly coordinated.
- 3.09 Seed mix substitutions will be considered only if submitted for approval 10 days before the close of bidding. All mixes shall be installed & maintained per supplier's specifications.

**BLUEGRASS MIX:** "Deluxe 50 Mix" shall be supplied by Reinders or approved equal. Apply @ 6 lbs per 1000 GSF.

3.10 Contractor shall be responsible for providing base bid comprehensive seed area establishment, maintenance and warranty care for all seeded areas:

- Bluegrass areas shall be for 60 days after installation. Work shall include all watering (min. 1" per week, or as needed), weeding & mowing. Assume 2 mowings prior to Owner hand-off. - All other seed areas (wet-tolerant) shall be for three years after installation. Work shall include all watering (as needed for establishment), weeding (both spot herbicide and/or hand-pulling, depending on necessity, once per month), spring / fall clean-up & mowing. Expect 4-5 mowings in the first year, 3-4 mowings in the second year and 2-3 mowings in the third year. All mowings shall be timed to cut germinating weeds but not desirable forbs / grasses. Overseed each spring any bare areas larger than 1 - Prior to beginning installation, the contractor shall submit a 36-month calendar for review/approval including all anticipated maintenance activities.

Hardscape / Amenity Notes

- 4.01 Bike racks: Shall be custom Inverted-U style with City of Watertown logo, powdercoat finish, color TBD to match building (selected from standard range), surface-mounted w/ stainless steel hardware, 'Square U Bike Rack.' Shall be furnished by Madrax, Madison WI, 608-849-1080. Or approved equal. - Qty. (4)
- 4.02 Retaining Wall: Redi Rock Cobblestone or approved equivalent. Color TBD from standard color palette, contractor to provide samples prior to construction. Final selection By Owner and coordinated with Landscape Architect. Engineered and installed per manufacturers specifications. See civil plans for top and bottom of wall elevations.
- 4.03 Ornamental Fence: Shall be 4' ht. Jerith Premier #202 Flat Top Panel with black finish or approved equal. Install per manufacturer's specifications.





to installation of plants. Shrub Planting Detail Not To Scale



## Gravity Wall Detail Not To Scale





HEET INDEX	
LANDSCAPE PLAN - OVERALL LANDSCAPE PLAN - NORTH LANDSCAPE PLAN - SOUTH LANDSCAPE DETAILS & NOTES	
ND	



#### LANDSCAPE REQUIREMENTS

Code Category	Measurement	Ratio	Requirement	Provided							
Building Foundation	840 LF	40 PTS / 100 LF	336 PTS	L1.01 =	336 PTS						
Street Frontage	653 LF	40 PTS / 100 LF	261 PTS	L1.01 = L1.02 = Total =	90 PTS 225 PTS 315 PTS						
Paved Areas	333 Stalls	80 PTS / 20 Sta <b>ll</b> s	1,332 PTS	L1.01 = L1.02 = Total =	355 PTS 1,069 PTS 1,424 PTS						
Building Floor Area	40,121 SF	15 PTS / 1,000 SF	602 PTS	L1.01 = L1.02 = Total =	195 PTS 450 PTS 645 PTS						

#### GENERAL NOTES

reas to be seeded with premium commercial grade bluegrass seed mix, see specifications.

Plant beds, parking lot islands and maintenance strips to receive a 3-4" deep layer of shredded hardwood mulch.

All plantings shall comply with standards as described in the American Standard of Nursery Stock - ANSI Z60.1 (Latest Version)

Caution: underground utilities are present on site. The Contractor shall verify location of all above- and below-grade utilities, <u>both public & private</u>, prior to commencement of site construction. If unanticipated above- or below-grade conditions are encountered, notify Client & Landscape Architect prior to proceeding. Coordinate with local public utility locating entity as needed.

Contractor to limit construction traffic to within work areas. All adjacent damage shall be the responsibility of the contractor to restore.



Project:

Watertown YMCA

Location: 672 Johnson Street Watertown, WI 53094

Key Plan:

## SITE PLAN REVIEW

LANDSCAPE PLAN - OVERALL

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Scale	: 1" = 30'	@ 30:	x42					
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PLANT SCHEDULE STREET FRONTAGE - SOUTH

Sheet: LANDSCAPE PLAN - SOUTH 俞 N Scale: 1" = 20' @ 30x42 Revisions: No: Date: Description: Date: 02-23-2024 Project No.: (Owner) Project No.: 230049.00 Sheet No.:

L1.02

SITE PLAN REVIEW



Project: Watertown YMCA

Location: 672 Johnson Street Watertown, WI 53094

Key Plan:

60

120

60

39

330

#### General Notes

- 1.01 All landscape installation & maintenance to conform with all applicable local codes & ordinances, including (but not limited to) select portions of City of Watertown Municipal Code.
- 1.02 See Site dwgs. for work limits, scope of construction, hardscape, dimensions &/or construction notes. See Oivil dwgs. for all hardscape, grading, stormwater management, site utilities & erosion control. See Landscape dwgs. for landscape plans, site amenities, details, schedules, notes, See Architectural dwgs. for all construction. See Electrical drawings for all power, circuiting, lighting & security. See Mechanical drawings for other site equipment.
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- 2.06 All nursery tags/labels shall be left on plant materials until the project punch-list inspection is completed by the Landscape Architect. Untagged materials will be assumed to be deficient.
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- All planting beds shall contain screened blended topsoil mix to a min. depth of 18°. All turf, low-mow & shortgrass prairie areas shall have min. 6°. Existing topsoil meeting project specifications may be stripped, stored & re-used if previously approved. Contractor shall remove all excessive day, gravel & stones detrimental to healthy plant growth. Contractor shall remove all debris gravet than 1° diameter. So that the store all debris gravet than 1° diameter. So that the store all debris gravet than 1° diameter. So that the store all be tiled and/or scarlifed prior to placement of topsol. So the store shall be treated and/or scarlifed prior to placement of topsol. So the store shall include (but are not limited to) soil pl. % organic matter, % introgen / phosphorus / potassium, % calcium, and so the twice (precentages of shall, stift and/or 40, soil texture (precentages of shall, stift and/or 40, soil texture (precentages of shall, stift and/or 40, soil amendments if required to support growth of standard ornamental landscape materials.
- 2.08 Contractor is responsible for ensuring that all tree pits & planting areas drain property. Notify Landscape Architect if drainage or moisture problems are encountered while planting.
- 2.09 Contractor shall backfill all trees, shrubs & evergreens with a mix of 1/3 plant starter mix & 2/3 remaining soil. Plant Starter Mix shall be 40% organic black topsoil, 30% sphagnum moss, 20% composted manure & 10% coarse sand by volume. Submit material information for review.
- 2.10 All perennial and groundcover areas shall receive a 3" layer of plant starter mix and perennial starter fertilizer, rototilled into the top 6" of blended topsoil in beds.
- 2.11 Unless otherwise shown, all perennials & shrubs to be planted in triangular arrangements. For plants not shown individually, refer to the spacing shown in the plant schedule.
- 2.12 Mulch: All tree circles, planting beds and maintenance strips to receive a 3" deep layer of high quality shredded hardwood bark mulch.
- 2.13 Plant Bed Edging: Edge all planting beds and maintenance strips with a 4" deep spaded edge (shovel cut or mechanical). Bedlines are to be cut per plan. A clean definition between the lawn and plant bed is
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- 3.04 Seeds shall be PLS and will be mixed in accordance w/ mfr's specifications. Provide invoices, bag-tags or mix analysis results for approval prior to installation.
- 3.05 The seed mixtures shall be sown by means of equipment adapted to the purpose. Mechanical distribution of seed (i.e., Truax seed drill, Brillion seeder, cultipacker, silk-seeder, drop spreader or broadcast spreader) are the only accepted methods. No hand-broadcasting of seed.
- 3.06 No seeding shall occur if the wind exceeds 12 MPH.
- 3.07 Coordinate erosion control and/or mulching with Civil dwgs:

- In sloped areas steeper than 4:1, erosion matting shall be installed by others. Landscape installation shall In sopeo areas sieeper than 4.1, erosion matung shall be instained by others, Landscape instaination shall be coordinated with the erosion control contractor.
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- BLUEGRASS MIX: "Deluxe 50 Mix" shall be supplied by Reinders or approved equal. Apply @ 6 lbs per 1000 GSF.
- 3.10 Contractor shall be responsible for providing base bid comprehensive seed area establishment, maintenance and warranty care for all seeded areas:

- Bluegrass areas shall be for 60 days after installation, Work shal include all watering (min, 1\* per week, or as needed), weeding & mowing. Assume 2 mowings prior to Owner hand-off.
- All other seed areas (wel-tolerant) shall be for three years after installation, Work shall include all watering (as needed for establishment), weeding tobth spot herbicide and/or hand-pulling, depending on necessity, once per month), spring / Fall clean-up & mowing. Expect 4-5 mowings in the first year, 3-4 mowings in the second year and 2-3 mowings in the third year. All mowing shall be timed to cut germinating weeds but not desirable forbs / grasses. Overseed each spring any bare areas larger than 1 sq. ft. Prior to beginning installation, the contractor shall submit a 36-month calendar for review/approval including all anticipated maintenance activities.

#### Hardscape / Amenity Notes

- <sup>4</sup>.01 Bike racks: Shall be custom Inverted-U style with City of Watertown logo, powdercoat finish, color TBD to match building (selected from standard range), surface-mounted w/ staintess steel hardware, Square U Bike Rack: Shall be turnished by Madrax, Madison WI, 606-849-1080. Or approved equal. - Qty. (4)
- 4.02 Retaining Wall: Redi Rock Cobblestone or approved equivalent. Color TBD from standard color palette, contractor to provide samples prior to construction, Final selection By Owner and coordinated with Landscape Architect. Engineered and installed per manufacturers specifications. See civil plans for top and bottom of wall elevations.
- 4.03 Ornamental Fence: Shall be 4' ht, Jerith Premier #202 Flat Top Panel with black finish or approved equal. Install per manufacturer's specifications.







3 Gravity Wall Detail



Sheet

ELEPHONE

9

Consultant:

Project:

Watertown YMCA

Location: 672 Johnson Stree

Key Plan:

Watertown, WI 53094

HARWOOD





Sheet No.

Project Name

# Consolidated Industries Media Blasting Addition

Project Address

# 1207 Boomer Street Watertown, WI 53094



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P.O. BOX. 7 OCONOMOWOC, WI 53066 PHONE: 262-367-3661

WWW.MSIGENERAL.COM

SINGLE SOURCE RESPONSIBILITY TM

#### ISSUE DATES:

Budget Set:	02/20/2024
Proposal:	xx/xx/xxxx
Contract:	xx/xx/xxxx
State Submittal / Permit:	xx/xx/xxxx
Record Drawings:	xx/xx/xxxx
<b>_</b>	

#### REVISIONS:

PROJECT ADDRESS: PROJECT NAME

Consoildated Ind. Media Blast Add. STREET ADDRESS 1207 Boomer Street CITY/ STATE / ZIP Watertown WI 53094

ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

Architect: Engineer: Reviewed By: BJZ -- --Sheet Title: COVER SHEET Sheet Number:

G-001 Project Number:

P13592

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Section 3, Item B.

LEADERS

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- EXISTING ROCK TO REMAIN (TYP)



Architect: Reviewed By Engineer: BJZ AKH ---Sheet Title: EXISTING CONDITIONS & DEMO PLAN Sheet Number:  $\frown$ Project Number: P13592

S CTOR CONTR

 $\boldsymbol{\mathcal{O}}$ ARCHITECT

116

EXISTING CONDITIONS & DEMO PLAN 1'' = 30'

850.00

conc

12' WEPCO ESMT. PER DOC. #758753 (12)  $\mathbb{N}\mathbb{N}$ 

NORTH **GRAPHICAL SCALE (FEET)** 1'' = 30' 60'

PINNACLE ENGINEERING GROUP ENGINEERING I NATURAL RESOURCES I SURVEYING PLAN I DESIGN I DELIVER

WISCONSIN OFFICE: 20725 WATERTOWN RD BROOKFIELD, WI 53186 (262) 754-8888 CHICAGO I MILWAUKEE : NATIONWIDE

PEG JOB #: 5452.00-WI



SITE PLAN 1'' = 30' LEADERS

## LEGEND

## CONCRETE SIDEWALK

## SITE DATA TABLE

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/\_\_\_\_

cable fence

- PROPERTY LINE

12' WEPCO ESMT. PER DOC. #758753 (12)

 $\langle n \rangle$ 

NORTH 

GRAPHICAL SCALE (FEET)

1" = 30'

PINNACLE ENGINEERING GROUP Engineering i natural resources i surveying

WISCONSIN OFFICE:

20725 WATERTOWN RD BROOKFIELD, WI 53186 (262) 754-8888

CHICAGO I MILWAUKEE : NATIONWIDE PEG JOB #: 5452.00-WI

PLAN I DESIGN I DELIVER

60'

EXISTING PERVIOUS AREA: 85,768 (1.96 AC) EXISTING IMPERVIOUS AREA: 124,838 SF (2.87 AC) PROPOSED PERVIOUS AREA: 83,897 SF (1.92 AC) PROPOSED IMPERVIOUS AREA: 126,709 SF (2.91 AC)

![](_page_116_Picture_7.jpeg)

MSI GENERAL CORPORATION P.O. BOX. 7 OCONOMOWOC, WI 53066 PHONE: 262-367-3661

WWW.MSIGENERAL.COM SINGLE SOURCE RESPONSIBILITY TM

### ISSUE DATES:

Budget Set: 02/20/2024 Proposal: Contract: State Submittal / Permit: Record Drawings:

**REVISIONS:** 

ENGINEERS

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![](_page_116_Figure_15.jpeg)

ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

#### Reviewed By Architect: Engineer: BJZ AKH ---Sheet Title: SITE PLAN

Sheet Number:

ADDITION

![](_page_116_Figure_19.jpeg)

P13592

![](_page_116_Figure_21.jpeg)

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ARCHITECTS

![](_page_117_Figure_0.jpeg)

LEADERS

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![](_page_117_Picture_3.jpeg)

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ISSUE DATES:

02/20/2024 Budget Set: Proposal: Contract: State Submittal / Permit: **Record Drawings:** 

PROJECT ADDRESS:

ALL WORK TO BE COMPLETED AS SHOWN, AND IN

ACCORDANCE WITH THE LATEST EDITION OF THE

Reviewed By

---

MSI GENERAL MASTER SPECIFICATION

Engineer:

AKH

Sheet Title: GRADING & EROSION CONTROL PLAN

PROJECT NAME CONSOLIDATED IND. MEDIA BLAST

WATERTOWN, WI 53094

STREET ADDRESS 1207 BOOMER STREET

CITY/ STATE / ZIP

ADDITION

Architect:

Sheet Number:

Project Number:

P13592

**C-3** 

BJZ

**REVISIONS:** 

**CTORS** 

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CONTR

 $\boldsymbol{\mathcal{O}}$ ARCHITECT

GRADING & EROSION CONTROL PLAN 1'' = 30'

![](_page_117_Picture_14.jpeg)

![](_page_118_Picture_0.jpeg)

![](_page_118_Picture_1.jpeg)

		34'-8'	
4'-0"	12'-0"	2'-8"	12'-0"
	100	6" F CO	100A REINF. NC. SLAB
	<ul> <li>TRUSSES TO BEAR ON EXIST. STACK BOND CMU</li> </ul>	STORAC	6" REINF. CONC. SLA MAIN BEAM LINE W/ CM BEARING SECONDAR TRUSSES A BEAM OR IN

	-														
								D	OOR	AND FRA	AME S	SCHE	DULE		
						DOOR					FF	RAME			
				SIZE							DET	AIL			
		DOOR #	TYPE	PR WxH	MATERIAL	SWING	GLASS SIZE	FINISH	Color	MATERIAL	JAMB	HEAD	FINISH	Color	
Ma		100	М З	12'-0" x 12'-8"	STND	NA				MASONRY	STND	STND			
		100A	М З	12'-0" x 12'-0"	STND	NA				MASONRY	STND	STND			
		100B	HM 1A	3'-0" x 7'-0"	H.M.	Right				H.M.	2"	4"			_

OVERHEAD MASONRY FRAME SOLID DOOR STND JAMB STND HEAD

![](_page_118_Figure_6.jpeg)

	Section 3, Item B.
Image: Non-Weight of the second sec	LEADERS
MSI GENERAL CORPORATION P.O. BOX. 7 OCONOMOWOC, WI 53066 PHONE: 262-367-3661	-
ISSUE DATES: Budget Set: Proposal: Contract: State Submittal / Permit: XX/XX/XXXX Record Drawings: XX/XX/XXXX	NGINEERS
REVISIONS:         1            -	- IJ
	NTRACTORS
PROJECT NAME Consoildated Ind. Media Blast Add. STREET ADDRESS 1207 Boomer Street CITY/ STATE / ZIP Watertown WI 53094 ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION	- OO
Architect: Engineer: Reviewed By: BJZ Sheet Title: FLOOR PLAN Sheet Number: A-100 Project Number: P13592	ARCHITECTS

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

![](_page_119_Figure_0.jpeg)

![](_page_119_Figure_1.jpeg)

EXTERIOR MATERIAL KEY NOTES

Section 3, Item B.

S

![](_page_120_Picture_0.jpeg)

![](_page_120_Picture_1.jpeg)

Andrew Beyer, P.E. 920.262.4050

Maureen McBroom, ENV SP 920.206-4264

Ritchie Section 3, Item C.

920.262.4034 Christopher Newberry 920-390-3164

Administrative Assistant Wanda Fredrick 920.262.4060

# MEMOTO:Mayor McFarland and Committee MembersFROM:Andrew Beyer, P.E.DATE:March 6, 2024RE:Site Plan Review Committee Meeting of March 11, 2024

#### <u>Review and take action: 916 Labaree Street – Architectural and location review of Riverside Park</u> 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 plan set is attached for review.

# **RIVERSIDE PARK RESTROOM - NEW CONSTRUCTION** 600 LABAREE ST. | WATERTOWN, WI 53098

	SHEET INDEX	
SHEET	DESCRIPTION	BASED ON THE
T1.0	TITLE SHEET	
T1.1	CODE SHEET	
C1.0		
C2.0	SITE LAYOUT PLAN	
C3.0	GRADING AND EROSION CONTROL PLAN	
C4.0	UTILITY PLAN	BUILDING AREA
C5.0	DETAILS	
	ARCHITECTURAL	FIRE ALARM:
SP1.0	SITE PLAN	
A1.0	FLOOR PLAN	
A1.2	REFLECTED CEILING PLAN	OCCUPANCE SER
A1.3	ROOF PLAN	CONSTRUCTION
A2.0	EXTERIOR ELEVATIONS	SPRINKLER SYST
A2.1	ALTERNATE 1 EXTERIOR ELEVATIONS	FLAME SPREAD
A3.0	BUILDING SECTIONS	
A3.1	BUILDING SECTIONS	
A5.0	INTERIOR ELEVATIONS	
A5.1	INTERIOR ELEVATIONS	
A6.0	DOORS, WALL TYPES AND SCHEDULES	
M0.1	MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS	
IVIT.U		
	ELECTRICAL	
E0.1	ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS	
E1.0	ELECTRICAL SITE PLAN	1. CONSTRUCTION IS
E2.0	ELECTRICAL LIGHTING PLAN	CONTRACTOR(S) S PROGRAMS IN CO
E3.0	ELECTRICAL POWER AND SYSTEMS FLOOR PLAN	2. ARCHITECT/DESIGN
E4.0	ELECTRICAL RISER AND SCHEDULES	A COMPLETE SET
	PLUMBING	DEFECTS IN THE
P0.1	PLUMBING NOTES, LEGEND, AND ABBREVIATIONS	4. SITE DIMENSIONS NOTIFIED OF ANY
P1.0	PLUMBING UNDERGROUND PLAN	5. MECH, ELEC, PLU ORDINANCES & S
P2.0	PLUMBING FLOOR PLAN	ASSUMES NO LIAE
P3.0		MANUFACTURER'S
		7. THE INSTALLATION
S0.1		STANDARDS AND S THE GC.
SU.2		8. PORTABLE FIRE E
S1.0 S1.1		EXTINGUISHER. EX ACCESSIBI F AND
S1.1		BE OBSTRUCTED
<u>S30</u>	CONCRETE SECTIONS & DETAILS	TOP IS NOT MOR
S3 1	CONCRETE SECTIONS & DETAILS	ITS TOP IS NOT M HAND HELD UNITS
S4 0	MASONRY SECTIONS & DETAILS	
S6.0	WOOD SECTIONS & DETAILS	COMPOUND. REFE
S6.1	WOOD SECTIONS & DETAILS	APPLYING CURING
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		TYPICAL	_ ABBREVI	ATIONS
ABV: Above	B/0: By Others	DW: Dishwasher	FTG: Footing	LB: Pound
ACOUS: Acoustical	BO: Bottom Of	DIV: Division	FND: Foundation	LAM: Laminate(d)
ADDL: Additional	BR: Bedroom	DR: Door	FRM: Fram(d), (ing)	LAV: Lavatory
ADH: Adhesive		DH: Double Hung	FBO: Furnished by Others	LH: Left Hand
ADJ: Adjustable	CAB: Cabinet	DS: Downspout	FUR: Furred	L: Length
AFF: Above Finish Floor	CALC: Calculation	DRWR: Drawer		LOA: Length Overall
AGG: Aggregate	CD: Cabinet Door	DT: Drain Tile	GA: Gage, Gauge	LT: Light
AHJ: Authority Having	CG: Corner Guard	DWG: Drawing	GAL: Gallon	LF: Lineal Feet
Jurisdiction	CIP: Cast-In-Place	D: Nail Size	GL: Glass, Glazing	LL: Live Load
A/C: Air Conditioning	(Concrete)		GI: Galvanized Iron	LVL: Laminated Veneer
ALT: Alternate	CL: Centerline	EW: Each Way	GLBK: Glass Block	Lumber
ALUM: Aluminum	CO: Clean Out	E: East	GLB: Glue Laminated Beam	LVR: Louver
ANC: Anchor, Anchorage	CONTR: Contract (or)	EL: Elevation	GT: Grout	
AB: Anchor Bolt	COORD: Coordinate	ELEV: Elevation	GRD: Grade, Grading	MFR: Manufacturer
ANOD: Anodized	CRPT: Carpet	EQ: Equal	GWB: Gypsum Wall Board	MO: Masonry Opening
APX: Approximate	CIP: cast-in-place	EQP: Equipment		MAX: Maximum
APT: Apartment	CLK: Caulking	EXCV: Excavate	HWD: Hardware	MAS: Masonry
ARCH: Architect	CAS: Casement	EXH: Exhaust	HDR: Header	MECH: Mechanic(al)
(architectural)	CB: Catch Basin	EXIST: Existing	HTG: Heating	MC: Medicine Cabinet
ASPH: Asphalt	CLG: Ceiling	EXT: Exterior	HVAC: Heating,	MED: Medium
AUTO: Automatic	CT: Ceramic Tile		Ventilation—Air Conditioning	MDF: Medium Density
AVE: Avenue	CIR: Circle	FOC: Face of Concrete	HT: Height	Fiberboard
AVR: Average	CLR: Clear	FOF: Face of Finish	HC: Hollow Core	MDO: Medium Density Overlay
AWN: Awning	COL: Column	FOM: Face of Masonry	HOR: Horizontal	MBR: Member
-	CONC: Concrete	FOS: Face of Studs	HB: Hose Bib	MMB: Membrane
BSMT: Basement	CMU: Concrete Masonry	FOW: Face of Wall		MTL: Metal
BM: Beam	Unit	FBD: Fiberboard	IN: Inch	MWK: Millwork
BVL: Beveled	CONST: CONSTruction	FCB: Fiber Cement Board	INCL: Include	MIN: Minimum
BITUM: Bituminous	CONT: Continuous	FGL: Fiberglass	ID: Inside Diameter	MIR: Mirror
BLK: Block	CJT: Control Joint	FIN: Finish	INS: Insulate	MISC: Miscellaneous
BLKG: Blocking	CORR: Corrugated	FFE: Finished Floor Elevation	INT: Interior	MOD: Module
BLW: Below	CUFT: Cubic Foot	FA: Fire Alarm	INV: Invert	MLD: Moulding
BLDV: Boulevard	CUYD: Cubic Yard	FE: Fire Extinguisher		MLB: Micro Laminate Beam
BTW: Between		FPL: Fireplace	JNT: Joint	
BD: Board	DP: Dampproofina	FLSH: Flashing	JST: Joist	NOM: Nominal
BOT: Bottom	DTL: Detail	FLR: Floor		N: North
BLDG: Building	DIA: Diameter	FLOR: Fluorescent	KD: Kiln Dried	NIC: Not in Contract
BUR: Built Up Roofing	DIM: Dimension	FT: Foot, Feet	KIT: Kitchen	NTS: Not To Scale
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### BUILDING CODE SUMMARY WISCONSIN COMMERCIAL BUILDING CODE (2015 INTERNATIONAL BUILDING CODE w/ WI AMENDMENTS) 2015 INTERNATIONAL EXISTING BUILDING CODE 2009 ANSI A117.1 ACCESSIBILITY CODE ALL OTHER CODES AND ORDINANCES AS REFERENCED BY THE ABOVE CODES TOTAL AREA FIRST FLOOR: 1,602 GROSS SF NOT REQUIRED U - UTILITY ARATION NONE TYPE V-B ΈM NOT REQUIRED & SMOKE INDEX NO RESTRICTIONS NONE

# GENERAL NOTES

TO BE IN COMPLIANCE WITH ALL GOVERNING CODES, ORDINANCES & STANDARDS. THE HALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, & SUPERVISING ALL SAFETY PRECAUTIONS & INECTION WITH THE PERFORMANCE OF THIS PROJECT. NER SHALL NOT BE RESPONSIBLE FOR ANY COST, SCHEDULE OR CONSTRUCTION ISSUES ARISING FAILURE TO DISTRIBUTE ALL DOCS. SUBCONTRACTORS & SUPPLIERS SHOULD ENDEAVOR TO REVIEW

OF DOCS BEFORE BIDDING, FABRICATING & INSTALL. ORS, MATERIAL SUPPLIERS, OWNER, ETC. MUST NOTIFY ARCHITECT OF ANY ERRORS, OMISSIONS. OF CONSTRUCTION DOCUMENTS PRIOR TO BIDDING, FABRICATING OR INSTALLING WORK. ARE TO BE FIELD VERIFIED AND ADJUSTED ACCORDINGLY. THE ARCHITECT/DESIGNER SHALL BE VARIANCES BEFORE CONTRACTOR BEGINS OR PROCEEDS WORK.

IB & FIRE PROTECTION ARE TO BE DESIGN BUILT, COMPLYING WITH ALL GOVERNING CODES ANDARDS, WHICH WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR; THE ARCHITECT II ITY

PLUMB & FIRE PROTECTION SYSTEMS/EQUIP. SHALL BE MAINTAINED ACCORDING TO STANDARDS. BLDG. OWNER SHALL ASSUME FULL RESPONSIBILITY FOR MAINTANANCE/OPPERATION

AND EXECUTION OF ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PECIFICATIONS. ALL MEANS & METHODS OF CONSTRUCTION TO BE THE SOLE RESPONSIBILITY OF

(TINGUISHERS SHALL BE PROVIDED IN OCCUPANCIES AND LOCATIONS AS REQUIRED BY THE RE CODE. INSTALLATION LOCATIONS SHALL HAVE A MAXIMUM TRAVEL DISTANCE OF 75' TO ANY FINGUISHERS SHALL BE LOCATED IN CONSPICUOUS LOCATIONS WERE THEY WILL BE READILY MMEDIATELY AVAILABLE FOR USE. TYPICALLY ALONG PATHS OF TRAVEL. EXTINGUISHERS SHALL NOT FROM VIEW, IF VISUAL OBSTRUCTION CAN NOT BE AVOIDED ANOTHER MEANS SHALL BE PROVIDED EXTINGUISHER LOCATIONS. EXTINGUISHERS NOT EXCEEDING 40" SHALL BE INSTALLED SO THAT ITS THAT 5'-0" ABOVE THE FLOOR, EXTINGUISHERS EXCEEDING 40" SHALL BE INSTALLED SO THAT 10RE THAN 3'-6" ABOVE THE FLOOR. THE CLEARANCE BETWEEN THE FLOOR AND BOTTOM OF SHALL NOT BE LESS THAN 4". VERIFY EXTINGUISHER LOCATIONS W/ LOCAL FIRE DEPT. & OWNER ATION.

LAT WORK MUST BE WET CURED PER ACI REQUIREMENTS AND/OR CURED USING A CURING R TO STRUCTURAL NOTES FOR CURING COMPOUND SPECS. CONTRACTOR IS RESPONSIBLE FOR COMPOUNDS PER THE MANUFACTURER'S REQUIREMENTS.

NO, #: Number	REFR: F REG: Re
0: Non-Operable Window	RE: Rei
Section	REQ'D:
OBS: Obscure	RA: Ret
OC: On Center	REV: Re
OP: Opaque	R: Rise
OPG: Opening	RD: Roo
OSB: Orientated Strand Board	R&S: R
OD: Outside Diameter	RFG: Ro
	RM: Ro
PMT: Paint(ed)	RO: Roi
PBD: Particle Board	
PRT: partition	SCH: S
PVMT: Pavement	SUN: SO
PERF: Perforate(d)	
PLAS: Plaster	SHTH S
PLAM: Plastic Laminate	SHT: SH
PLI: Plate	SH: She
PLTWD: Plywood PCC: Present Constate	SIM: Sir
PCC: Frecdst Concrete PCF: Pounds Per Cubic Foot	SKL: Sk
PLF: Pounds Per Linear Foot	S: Sout
PSF: Pounds Per Square	SLB: SI
Foot	SLD: SI
PSI: Pounds Per Square Inch	SPEC: S
PBF: Prefabricated	SQ: Sqi
PRF: Preformed	STD: St
PT: Pressure Treated	STV: St
PL: Property Line	STL: Ste
PH: Toilet Paper Hanger	STR: St
. 2	SA: Sup
QTY: Quantity	SC: Sol
QT: Quarry Tile	SW: Sh
	SS: Sta
RAD: Radius	SYS: Sy

REF: Reference RFL: Reflect(ed),(ive),(or)

legister inforced Required eturn<sup>'</sup> Air evision Rod and Shelf loofing ough Opening Schedule Screen Section liding Glass Dooi Sheathing heet elf, Shelving imilar

kylight Slider(ing) Specificatior uare tandard stove teel tructural pply Air lid Core hear Wall

ainless Steel System TEL: Telephone

TEMP: Tempered TK: Tight Knot T&G: Tongue and Groove T/O: Top of TOC: Top of Concrete TOW: Top of Wall TB: Towel Bar T: Tread TS: Tubular Steel TYP: Typical

UL: Underwriters Laboratory UNF: Unfinished UNO: Unless Noted Otherwise VB: Vapor Barrier

VAR: Varnish VIF: Verify In Field VRN: Veneer VERT: Vertical VG: Vertical Grain VIN: Vinyl Sheet

WL: Wall WC: Water Closet WH: Water Heater WP: Water Proofing WR: Weather Resistant WRB: Weather Resistive Barrier WWF: Welded Wire Fabric WWM: Welded Wire Mesh W: West WIN: Window W/O: Without W/: With

WD: Wood X: Operable Window Section

![](_page_121_Picture_24.jpeg)

ARCHITECT OF RECORD

![](_page_121_Picture_27.jpeg)

WAUKESHA, WI 53186 P: 262-549-1190

![](_page_121_Picture_29.jpeg)

![](_page_121_Picture_31.jpeg)

![](_page_121_Picture_32.jpeg)

![](_page_121_Picture_34.jpeg)

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# **RIVERSIDE PARK RESTROOM - NEW CONSTRUCTION** 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
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

![](_page_122_Figure_4.jpeg)

![](_page_122_Figure_5.jpeg)

Section 3, Item C.

THR VE **ARCH TECTS**  Architect 259 South Street, Suite A WAUKESHA, WI 53186 p: 833-380-6180

![](_page_122_Picture_8.jpeg)

600 Labaree St Watertown, WI

![](_page_122_Figure_10.jpeg)

Drawn by	Checked by
JAJ	DMR

# Revisions -

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![](_page_122_Picture_17.jpeg)

### 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**

- 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 CAN 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. JSD 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.
- CONTRACTOR SHALL KEEP ALL STREETS AND PRIVATE DRIVES FREE AND CLEAR OF ALL CONSTRUCTION RELATED DIRT, 2. DUST AND DEBRIS.
- ALL TREES WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED UNLESS SPECIFICALLY CALLED OUT FOR REMOVAL. 3. 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.
- ABANDONED/REMOVED ITEMS SHALL BE DISPOSED OF OFF SITE UNLESS OTHERWISE NOTED. 5.
- 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.
- 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.
- VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCIES. NO WORK SHALL BE PERFORMED 7.2. UNTIL THE DISCREPANCIES ARE RESOLVED.
- NOTIFYING ALL UTILITIES PRIOR TO THE REMOVAL OF ANY UNDERGROUND UTILITIES. 7.3.
- 7.4. NOTIFYING THE DESIGN ENGINEER AND LOCAL CONTROLLING MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION.
- ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, 8. 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 JIES OCCUR IN THE LOCATION SHOWN OR PROPOSED IMPROVEMENTS IMPACTING EXISTIN 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.
SF-SF-SF-	EXISTING BUILDING TO BE REMOVED BY THE CITY, REFER TO BLDG. PLAN, N.I.C. SILT FENCE
X X	PAVEMENT SAWCUT BY CITY, N.I.C.
*************	EXISTING CURB TO BE REMOVED BY CITY, N.I.C.
- <i>"-"-"-</i>	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

![](_page_123_Figure_37.jpeg)

![](_page_123_Picture_38.jpeg)

![](_page_123_Picture_39.jpeg)

![](_page_123_Picture_41.jpeg)

C1.C

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02

#### **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. <u>GENERAL</u>

- 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. <u>CONCRETE PAVING SPECIFICATIONS</u>
- 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
෮෫෮෫෮෫෮෫෮෫෮෫෮෫෮෫ඁ	30" WIDE GRAVEL MAINTENANCE STRIP
X X	SAWCUT PAVEMENT BY CITY
0	SANITARY CLEANOUT
$\bowtie$	WATER VALVE
// // // /	CONTRACTOR TO ROUGH GRADE AREA. CITY TO COMPLETE FINISH GRADE, SEEDING, AND EROSION MATTING.

![](_page_124_Figure_21.jpeg)

![](_page_124_Picture_22.jpeg)

#### **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 JSD 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 SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
- 7. CITY SHALL WATER ALL NEWLY SODDED/SEEDED 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 SEEDED, 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, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND CITY OF WATERTOWN ORDINANCE.

#### LEGEND

	PROPERTY LINE
_ · _ · _ · _ · _ · _	EASEMENT LINE
	RIGHT OF WAY LINE
	STANDARD CURB AND GUTTER
SFSF	SILT FENCE
959	PROPOSED 1 FOOT CONTOUR
960	PROPOSED 5 FOOT CONTOUR
959	EXISTING 1 FOOT CONTOUR
	EXISTING 5 FOOT CONTOUR
O .	PROTECT EXISTING TREES
	EROSION MATTING, BY CITY
SAN	SANITARY SERVICE
©)	SANITARY CLEANOUT
W	WATER SERVICE
$\bowtie$	WATER VALVE
	INLET PROTECTION – SILT LOGS OR STAKED STRAW BALES
<b>→</b>	DRAINAGE ARROW

SEE UTILITY SHEET FOR ADDITIONAL INFORMATION

![](_page_125_Figure_20.jpeg)

![](_page_125_Picture_21.jpeg)

▶ Project Info. — 22005 -Riverside Park Restrooms New Construction 600 Labaree St Watertown, WI

259 South Street, Suite A

WAUKESHA, WI 53186

p: 833-380-6180

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Architect

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## UTILITY PLAN AND NOTES: FOR REFERENCE ONLY - SCOPE NOT IN CONTRACT. UTILITIES BY CITY, CONTRACTOR TO COORDINATE WITH CITY AND CITY'S CONTRACTORS.

- 1. 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
- ENGINEERING 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, DR-18, WITH CAST IRON O.D. AND INTEGRAL 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 8.27.0 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 STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 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 8.43.5 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 SECTIONS OF THE "STANDARD SPECIFICATION" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2 (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 SPRINGLINE 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 8.43.5 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. WATERMAIN 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 4.17.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).

#### LEGEND

	PROPERTY LINE
_ · _ · _ · _ · _ · _	EASEMENT LINE
	RIGHT OF WAY LINE
	STANDARD CURB AND GUTTER
—— SF—— SF——	SILT FENCE
SAN	SANITARY SERVICE
$\odot$	SANITARY CLEANOUT
W	WATER SERVICE
$\bowtie$	WATER VALVE

![](_page_126_Figure_33.jpeg)

![](_page_126_Picture_34.jpeg)

![](_page_126_Picture_35.jpeg)

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![](_page_128_Figure_0.jpeg)

![](_page_129_Figure_0.jpeg)

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![](_page_129_Picture_3.jpeg)

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Section 3, Item C.

![](_page_130_Picture_3.jpeg)

# Riverside Park Restrooms New Construction

600 Labaree St Watertown, WI

![](_page_130_Figure_7.jpeg)

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ALTERNATE 1 ROOF PLAN

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

![](_page_131_Figure_5.jpeg)

![](_page_131_Picture_7.jpeg)

![](_page_131_Picture_9.jpeg)

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600 Labaree St Watertown, WI

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Section 3, Item C.

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![](_page_135_Figure_0.jpeg)

![](_page_135_Figure_2.jpeg)

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

Section 3, Item C.

![](_page_135_Picture_5.jpeg)

## Project Info. — 22005 — Riverside Park Restrooms New Construction

600 Labaree St

Watertown, WI

![](_page_135_Figure_9.jpeg)

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![](_page_135_Picture_12.jpeg)

NOTES: 1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.

2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.

![](_page_136_Figure_2.jpeg)

![](_page_136_Figure_3.jpeg)

![](_page_136_Figure_4.jpeg)

![](_page_136_Figure_5.jpeg)

Section 3, Item C.

![](_page_136_Picture_7.jpeg)

![](_page_136_Figure_8.jpeg)

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![](_page_136_Figure_11.jpeg)

# WATER CLOSET WALL

SCALE: 1/2"=1'0"

![](_page_136_Figure_14.jpeg)

NOTES: 1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.

2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.

![](_page_137_Figure_2.jpeg)

17"-19"

![](_page_137_Figure_3.jpeg)

![](_page_138_Figure_0.jpeg)

![](_page_138_Figure_1.jpeg)

![](_page_138_Figure_3.jpeg)

FRAME: HOLLOW METAL TRIM: NONE FINISH: PAINTED

![](_page_138_Figure_5.jpeg)

![](_page_138_Figure_6.jpeg)

SEE SCHEDULE

![](_page_138_Figure_9.jpeg)

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	HLOIM	HEIGHT	DOOR TYPE	FRAME TYPE	FIRE RATING	REMARKS							
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 1. G 2. D 0	S: .C. TO SUPPLY ALL DOOR HARDWARE F OOR HARDWARE SHALL COMPLY WITH IC PERABLE PARTS ON ACCESSIBLE DOORS	EQUIRE C/ANS S SHAL	D BY C I A117.1 L HAVE	ODE. 1 SEC 4 A SHAPE	04.2.6 5 THAT	110       MOTHER'S ROOM       1       3'-0"       7'-0"       D1       F1       HG1         NOTES:       .									

- 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. 3. COORDINATE REQUIREMENTS OF ELECTRONIC STRIKE WITH OWNER FOR REMOTE/TIMED ACCESS TO PUBLIC DOORS.

Section 3, Item C.

F.R.P. OVER 5/8" MOISTURE RESISTANT GYP BD (INTR)

2x6 WD. STUDS © 24" O.C. (TYP)(NON-BRG.) OR 2x6 WD. STUDS © 16" O.C. (TYP.)(BRG.) SEE STRUCTURAL PLAN FOR BRG. WALLS

1/2" OSB OR PLYWOOD SHEATHING (EXTR) TYVEK WRAP (EXTR) BOARD AND BATTEN SIDING (EXTR)

THR VE ARCH TECTS Architect 259 South Street, Suite A WAUKESHA, WI 53186 p: 833-380-6180

![](_page_138_Picture_23.jpeg)

600 Labaree St Watertown, WI

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Drawn by	Checked by
JAJ	DMR

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![](_page_138_Picture_30.jpeg)

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

## I OUVER

MARK	MARK MANUFACTURER	MODEL		SEDVICE	CONSTRUCTION		CEM		SIZE		MAX FREE AREA	MAX PRESSURE DROP -	
MANN		MODEL	LOCATION	SERVICE	TYPE	MATERIAL	CFW	LENGTH	WIDTH	DEPTH	VELOCITY - FPM	IN WC	REMARKS
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									
	MODEL	TYPE	SERVICE	MATERIAL	CONFIGURATION				
MANUFACTURER					BLADES		MOUNTING /	FINISH	REMARKS
					SPACING (IN)	ANGLE	FRAME		
TITUS	TMR	ROUND CONICAL	SUPPLY	STEEL	-	-	LAY-IN	WHITE	1
TITUS	350FL	SINGLE DEFLECTION	EXHAUST	STEEL	3/4"	35°	LAY-IN	WHITE	1
	MANUFACTURER TITUS TITUS	MANUFACTURER MODEL TITUS TMR TITUS 350FL	MANUFACTURER       MODEL       TYPE         TITUS       TMR       ROUND CONICAL         TITUS       350FL       SINGLE DEFLECTION	MANUFACTURER       MODEL       TYPE       SERVICE         TITUS       TMR       ROUND CONICAL       SUPPLY         TITUS       350FL       SINGLE DEFLECTION       EXHAUST	MANUFACTURERMODELTYPESERVICEMATERIALTITUSTMRROUND CONICALSUPPLYSTEELTITUS350FLSINGLE DEFLECTIONEXHAUSTSTEEL	DIFFUSERS AND GRILLE         MANUFACTURER       MODEL       TYPE       SERVICE       MATERIAL       BLA         MITUS       TMR       ROUND CONICAL       SUPPLY       STEEL       -         TITUS       350FL       SINGLE DEFLECTION       EXHAUST       STEEL       3/4"	DIFFUSERS AND GRILLES         MANUFACTURER       MODEL       TYPE       SERVICE       MATERIAL       ELADES         MITUS       TMR       ROUND CONICAL       SUPPLY       STEEL       -         TITUS       TMR       SINGLE DEFLECTION       EXHAUST       STEEL       3/4"       35°	DIFFUSERS AND GRILLES         MANUFACTURER       MODEL       TYPE       SERVICE       MATERIAL       CONFIGURATION         MITUS       TMR       ROUND CONICAL       SUPPLY       STEEL       -       -       LAY-IN         TITUS       350FL       SINGLE DEFLECTION       EXHAUST       STEEL       3/4"       35°       LAY-IN	DIFFUSERS AND GRILLES         MANUFACTURER       MODEL       TYPE       SERVICE       MATERIAL       ELADES       MOUNTING / FRAME       FINISH         TITUS       TMR       ROUND CONICAL       SUPPLY       STEEL       -       LAY-IN       WHITE         TITUS       350FL       SINGLE DEFLECTION       EXHAUST       STEEL       3/4"       35°       LAY-IN       WHITE

NOTE: SEE PLANS FOR NECK SIZES

1. ARCHITECT TO COMFIRM 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 assoc 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 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.

Heating Control: 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.

ciated zone lighting occupancy sensor. The method of delivery of the	
n the exhaust fan operation should be indexed to turn on and off in sequence	

#### ABBREVIATIONS HVAC LEGEND ABOVE FINISHED FLOOR NEW HVAC EQUIPMENT

ACCESS PANEL BOTTOM OF DUCT

AFF

AP

BOD

BOP

CA COND CHWR CHWS

CR

CWS

DE

DN

EA

GSHXR

RETURN

GSHXS

SUPPLY

HPS HWR

HWS

KE

LPS

MPS

NC

NG NO

OA

RA

RL

RS

SA

TA

VFD

Х

SOLR

SOLR

RCOVR

RCOVS RELF

RETURN CWR

BOTTOM OF PIPE COMBUSTION AIR CONDENSATE DRAIN CHILLED WATER RETURN CHILLED WATER SUPPLY LOW PRESSURE STEAM CONDENSATE

CONDENSER WATER RETURN CONDENSER WATER SUPPLY

DISHWASHER EXHAUST DOWN

EXHAUST AIR GROUND SOURCE HEAT EXCHANGER

GROUND SOURCE HEAT EXCHANGER

HIGH PRESSURE STEAM HOT WATER RETURN HOT WATER SUPPLY

KITCHEN EXHAUST

LOW PRESSURE STEAM MEDIUM PRESSURE STEAM

NORMALLY CLOSED NATURAL GAS NORMALLY OPEN

OUTSIDE AIR

**RETURN AIR** ENERGY RECOVERY RETURN ENERGY RECOVERY SUPPLY RELIEF AIR REFRIGERATION LIQUID

SUPPLY AIR SOLAR THERMAL RETURN SOLAR THERMAL SUPPLY

REFRIGERATION SUCTION

TRANSFER AIR VARIABLE FREQUENCY DRIVE

EXISTING

$ \qquad \qquad$	NEW DUCTWORK
	EXISTING MECHANICAL COM
	DEMOLISHED MECHANICAL
	MECHANICAL EQUIPMENT SE
(M##)	KEY NOTE
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	ELBOW WITH TURNING VANE
	FLEX DUCT
	MOTORIZED DAMPER
BD -	BACK DRAFT DAMPER
XX-1	
	DAMPER WITH SEQUENCING
ΙΨ	
	AIR FLOW INDICATOR
°⊆ <b>~</b> > ↑	DOOR UNDER CUT
É	TRANSFER/DOOR GRILLE
S-*	NEW SUPPLY DIFFUSER
R-*/T-*	NEW RETURN/TRANSFER GR
►-*	NEW EXHAUST GRILLE
 [C]	CO2 SENSOR
PD	PRESSURE DIFFERENTIAL SE
SP	STATIC PRESSURE CONTROL
$\square$	THERMOSTAT
	TEMPERATURE SENSOR
	THERMOSTAT (CO2 SENSOR
	NALL SMITCH
φ	
	POINT OF CONNECTION
$\overline{1}$	DUCT OFFSET
	HVAC EQUIPMENT TAG
	ELECTRICALLY POWERED
TAG -	
EQUIPMENT 7	
VAV	HVAC EQUIPMENT TAG
) II	NOT ELECTRICALLY POWERE
FLOOR -	
NECK	
SIZE	
A1 CFM	DIFFUSER/GRILLE TAG
TAG 🚽 TYP.#	

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ENSOR LLER R	MECHANICAL SHEET INDEX         NUMBER       SHEET NAME         M0.1       MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS         M1.0       MECHANICAL FLOOR PLAN	Drawn by Checked py
DAMPER NUMBER	<ol> <li>ALL HOT WATER BRANCH LINES ARE 3/4" UNLESS NOTED OTHERWISE.</li> <li>MAINTAIN 10' MINIMUM DISTANCE FROM OUTSIDE AIR INTAKE TO ANY EXHAUST OR PLUMBING VENTS.</li> <li>FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH.</li> <li>ALL SUPPLY AND RETURN DUCTWORK IN UNINSULATED ATTIC SPACE SHALL BE WRAPPED WITH 3" INSULATION.</li> <li>CLEAN ALL EXISTING DUCTWORK, COILS AND DIFFUSERS DESIGNATED TO REMAIN WITHIN THE PROJECT'S SCOPE OF WORK.</li> <li>REMOVAL AND REINSTALLATION OF EXISTING CEILING IS REQUIRED. REPLACE ALL DAMAGED CEILING WITH NEW, EQUAL TO EXISTING.</li> </ol>	AL NOTES, ND TONS
S	<ul> <li>GRILLES WITH REFLECTED CEILING PLAN.</li> <li>6. ALL BRANCH DUCTS SHALL MATCH DIFFUSER NECK SIZES UNLESS OTHERWISE NOTED.</li> <li>7. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT.</li> <li>8. KEYNOTES PERTAIN ONLY TO THE DRAWING THEY ARE LOCATED ON.</li> <li>9. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.</li> </ul>	New Construction 600 Labaree St Watertown, WI 
	<ul> <li>STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.</li> <li>CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.</li> <li>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.</li> <li>COORDINATE EXACT LOCATION OF CEILING DIFFUSERS AND</li> </ul>	p: 833-380-6180 Project Info. — 22005 — Riverside Park Restrooms
PONENT COMPONENT ERVICE AREA	<ul> <li>CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.</li> <li>2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE LOCAL CODES, SEDERAL AND STATE RECULATIONS.</li> </ul>	<ul> <li>Architect</li> <li>259 South Street, Suite A</li> <li>WAUKESHA, WI 53186</li> </ul>

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL

Section 3, Item C.

![](_page_140_Picture_0.jpeg)

![](_page_140_Figure_2.jpeg)

![](_page_140_Figure_3.jpeg)

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

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

![](_page_140_Picture_12.jpeg)

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## Revisions —

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![](_page_140_Picture_17.jpeg)

![](_page_140_Figure_18.jpeg)

![](_page_140_Picture_19.jpeg)

#### A. STATEMENT OF INTENT

- 1. IT IS THE INTENT OF THESE DOCUMENTS THAT THE MECHANICAL CONTRACTOR (MC) PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS NECESSARY FOR THE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL APPURTENANCES REQUIRED TO SET RESPECTIVE SYSTEMS IN OPERATION. THE TERM "FURNISH AND INSTALL" WILL NOT BE USED, BUT IS INTENDED UNLESS SPECIFIC NOTATIONS ARE MADE TO THE CONTRARY
- 2. ALL ITEMS OF WORK AND ALL SYSTEMS ARE TO BE COMPLETE IN ALL DETAILS, READY FOR SATISFACTORY OPERATION. PROVIDE ALL NECESSARY DEVICES AND RELATED APPARATUS FOR COMPLETE SYSTEMS EVEN THOUGH SUCH ITEMS MAY NOT BE SPECIFICALLY MENTIONED.
- CODES: REGULATIONS
  - IF THE MC OBSERVES THAT ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE WITH LAWS, ORDINANCES, RULES AND REGULATIONS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK THEY SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING AND ANY NECESSARY CHANGES SHALL BE ADJUSTED BY APPROPRIATE MODIFICATIONS. IF THE MC PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO SUCH LAWS, ORDINANCES, RULES AND REGULATIONS, AND WITHOUT SUCH NOTICE TO THE ARCHITECT THEY SHALL ASSUME FULL RESPONSIBILITY THEREFORE AND SHALL BEAR ALL COSTS ATTRIBUTABLE THERETO.
  - COMPLY WITH ALL APPLICABLE REGULATIONS OF UTILITY COMPANIES SERVING THE PROJECT.
  - COMPLY WITH ALL APPLICABLE RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL ELECTRIC CODE, AMERICAN SOCIETY OF MECHANICAL ENGINEERS, FACTORY INSURANCE ASSOCIATION AND FACTORY MUTUAL INSURANCE COMPANIES.
  - WHERE APPLICABLE, MATERIAL OR EQUIPMENT SHALL BEAR THE STAMP OF U.L., ASME, AGA AND NEMA.
  - COMPLY WITH OWNER, ARCHITECT AND LANDLORD'S REQUIREMENTS.
- C. DESIGN INTENT
  - THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL EQUIPMENT. FOLLOW THE MECHANICAL PLANS AS CLOSELY AS POSSIBLE FOR INSTALLATION OF DUCTWORK AND EQUIPMENT. MECHANICAL DRAWINGS MAY NOT SHOW ALL OFFSETS, AND DETAIL EVERY POINT AT WHICH CONSTRUCTION MAY REQUIRE SPECIAL ATTENTION.
  - SHOULD CONDITIONS NECESSITATE GENERAL REARRANGEMENTS, OR IF DUCTWORK CAN BE RUN TO BETTER ADVANTAGE, PREPARE AND SUBMIT DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED. THEY SHALL BECOME A PART OF THE CONTRACT AFTER THEIR APPROVAL.
- ANY ADDITIONAL FITTINGS, VALVES, DUCTS, CONDUITS OR SPECIALTIES REQUIRED OR OTHER APPURTENANCES NECESSARY DUE TO FIELD CONDITIONS OR CODE REQUIREMENTS SHALL BE FURNISHED AND INSTALLED BY THE MC AT NO EXTRA COST TO THE OWNER.
- D. CUTTING AND PATCHING
  - CUTTING OF EXISTING WORK: CUTTING TO BE BY TRADE INSTALLING THE WORK.
  - NO CUTTING OF STRUCTURAL ELEMENTS OR FIREWALLS WITHOUT 2 THE WRITTEN CONSENT OF THE ARCHITECT.
  - PATCHING: UNLESS NOTED OTHERWISE PATCHING IS TO BE BY TRADE THAT PROVIDED THE PENETRATION OR CUT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PATCHING RELATED TO THE INSTALLATION OF MECHANICAL EQUIPMENT. SEE GENERAL CONDITIONS REGARDING CUTTING AND PATCHING AT CORRECTIVE WORK. PATCHING MATERIALS SHALL MATCH EXISTING.

- E. CLEANING: REMOVAL OF RUBBISH
  - RUBBISH: EACH TRADE TO PROMPTLY REMOVE ALL DEBRIS, SURPLUS AND DISCARDED MATERIAL FROM THE PREMISES. THIS CONTRACTOR SHALL, IN FINISHING STAGES, COOPERATE WITH OTHER CONTRACTORS IN REMOVING RUBBISH. BEFORE COMPLETION OF THE WORK, REPLACE ALL FILTERS.
- F. TESTING, BALANCING AND ADJUSTING
  - GENERAL CONTRACTOR SHALL CONTRACT DIRECTLY WITH A THIRD PARTY TO PERFORM THE TEST AND BALANCING OF THE HVAC SYSTEM. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCING CONTRACTOR WITH NEBB OR AABC CERTIFICATION. THE BALANCING CONTRACTOR SHALL:
  - 1.1. TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH AABC, NEBB OR ASHRAE
  - 1.2. STANDARDS.
  - 1.3. ELIMINATE UNNECESSARY NOISE AND VIBRATION. 1.4.
  - ASSURE PROPER FUNCTION OF CONTROLS. SUBMIT FINAL BALANCING REPORT TO OWNER AND GC AFTER 1.5. WORK IS COMPLETED AND SYSTEM IS FUNCTIONAL AND OPERATING PER THE CONTRACT DOCUMENTS.
  - BALANCING CONTRACTOR SHALL BALANCE SYSTEMS TO ACHIEVE THE AIR QUANTITIES INDICATED ON THE FLOOR PLAN WITHIN + 5%. MARK FINAL POSITION OF ALL VOLUME DAMPERS. REPORT ALL DEFICIENCIES TO MC FOR CORRECTION.
- G. GUARANTEE
  - MC SHALL BE RESPONSIBLE FOR ALL WORK INSTALLED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL MAKE GOOD, REPAIR OR REPLACE AT THEIR OWN COST AND EXPENSE ANY DEFECTIVE WORK OR MATERIAL WHICH IS DISCOVERED WITHIN ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF THE WORK.
  - THIS CONTRACTOR SHALL MAKE GOOD, REPAIR OR REPLACE MATERIAL OR WORKMANSHIP THAT IS IDENTIFIED AS A DEFECT IN THE OPINION OF THE ARCHITECT OR ENGINEER.
  - ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM ACCEPTANCE.
- 4. THE MECHANICAL SHALL PROVIDE PRIOR TO THE FINAL PAYMENT BEING RELEASED THE FOLLOWING:
- OPERATING INSTRUCTIONS FOR ALL SYSTEMS AND EQUIPMENT. CUT SHEETS FOR ALL EQUIPMENT AND SPECIALTIES INCLUDING 4.2. EXHAUST FANS, UNIT HEATERS AND OCCUPANCY SENSORS AS APPLICABLE.
- WRITTEN OPERATING INSTRUCTIONS FOR ALL SYSTEMS AND 4.3. EQUIPMENT INCLUDING FINAL WIRING AND CONTROL DIAGRAMS.
- EQUIPMENT WARRANTIES FOR ALL EQUIPMENT FOR NO LESS THAN 4.4. ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. AS A PART OF THIS CONTRACT, THE MC SHALL PROVIDE A ONE YEAR
- SERVICE AND MAINTENANCE AGREEMENT WITH ALL PARTS AND LABOR INCLUDED FOR MECHANICAL REPAIRS AS NECESSARY. THIS CONTRACTOR SHALL INSTRUCT THE OWNER AND FACILITY STAFF
- IN SYSTEM OPERATION PRIOR TO SYSTEM TURNOVER. NOTIFY THE OWNER 48 HOURS PRIOR TO SYSTEM TURNOVER AND DEMOBILIZATION OF THE MC.
- G. INSURANCE
  - THIS CONTRACTOR SHALL PURCHASE AND MAINTAIN SUCH INSURANCE AS WILL PROTECT THEM FROM CLAIMS INCLUDING WORKMAN'S COMPENSATION AND PUBLIC LIABILITY WHICH MAY ARISE OUT OF, OR RESULT FROM, THE CONTRACTOR'S OPERATIONS UNDER THE CONTRACT, WHETHER SUCH OPERATIONS BE BY THE MC OR BY ANY SUBCONTRACTOR OR BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.

- COORDINATION AND INSTALLATION 1
  - THE ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST- CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIONAL AND ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT.
- 2. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE HEADROOM, AVOID OMISSIONS AND VERIFY EQUIPMENT LOCATIONS.
- 3. DUCTWORK AND PIPING SHALL BE CONCEALED WHERE POSSIBLE, RUN IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION, AS HIGH AS POSSIBLE.
- ALL OUTSIDE AIR INTAKES SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM 4. ALL EXHAUST AS PER LOCAL CODES (VERIFY IN FIELD).
- COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER AND WITH THE CONSTRAINTS OF THE CONDITIONS OF THE PROJECT SITE.
- J. DUCTWORK
  - ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, ASHRAE STANDARDS AND SMACNA STANDARDS.
  - ALL CONCEALED OUTSIDE, RETURN AND SUPPLY DUCTWORK SHALL BE 2. CONSTRUCTED OF GALVANIZED SHEET METAL WITH 1-1/2" DUCT FIBERGLASS DUCT WRAP (MIN R-5) WITH FOIL FACED VAPOR BARRIER COMPLYING WITH ASTM 553, TYPE II. EXPOSED DUCTWORK WITHIN CONDITIONED SPACES SHALL NOT BE WRAPPED AND SHALL BE PROVIDED WITH PAINTABLE SURFACE. ALL PLAN DIMENSIONS SHALL BE FREE INSIDE DIMENSIONS.
  - ALL FLEXIBLE DUCTWORK ASSEMBLY SHALL BE CLASS 1 AIR DUCT UL 181 3. WITH MIN. R-5 FIBERGLASS INSULATION WITH FOIL FACED VAPOR BARRIER COMPLYING WITH ASTM 553, TYPE II. PROVIDE SCREW-OPERATED METAL ADJUSTABLE CLAMPING DEVICES. USE TWIST LOCK TAP COLLARS AT CONNECTIONS TO SHEET METAL DUCTWORK. FLEXIBLE DUCT SHALL NOT EXCEED 5FT.
  - ALL DUCTWORK INSULATING MATERIALS SHALL HAVE A MAXIMUM FLAME 4. SPREAD RATING OF 25, SMOKE DEVELOPED RATING SHALL NOT EXCEED 50. ALL VALUES SHALL BE IN ACCORDANCE WITH ASTM TEST E84 "SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS".
  - FURNISH AND INSTALL ALL STARTING COLLARS, MANUAL DAMPERS, SPLITTERS AND DEFLECTORS SHOWN ON THE DRAWINGS OR WHEREVER REQUIRED FOR THE PROPER AIR FLOW AND BALANCING OF THE ENTIRE AIR SYSTEM. ALL SQUARE (90 DEGREES) ELBOWS SHALL BE PROVIDED WITH TURNING VANES IN ACCORDANCE WITH SMACNA STANDARDS. ALL BLADES SHALL BE DOUBLE THICKNESS AIRFOIL TYPE.
  - SHEET METAL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH 6. ASHRAE AND SMACNA STANDARDS FOR 1" W.G. PRESSURE CLASS, SEAL CLASS "A". DUCTWORK SHALL BE GALVANIZED OF LOCK FORMING QUALITY, ASTM A653 AND A924. SEAL ALL SEAMS TRANSVERSE AND LONGITUDINAL AIR TIGHT.
  - ROUND GALVANIZED SHEET METAL DUCTWORK SHALL SPIRAL SEAM OR SNAP LOCK FOR DUCTS UP TO 10"Ø. DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SPIRAL SEAM DUCTWORK SHALL HAVE SMACNA SEAM TYPE RL-1.
  - RECTANGULAR VOLUME DAMPERS SHALL BE MIN. 16 GAUGE GALVANIZED STEEL FRAME AND BLADES, MIN. <sup>3</sup>/<sub>8</sub>" SQUARE STEEL AXLE, MOLDED SYNTHETIC BEARINGS WITH LOCKING POSITION REGULATOR. WHERE POSITION REGULATOR IS NOT ACCESSIBLE PROVIDE COUPLING AND EXTENSION ROD FOR CEILING OR WALL INSTALLATION.
  - ROUND VOLUME DAMPERS SHALL BE MIN. 20 GAUGE GALVANIZED STEEL FRAME AND BLADES. MIN. 3/ SQUARE STEEL AXLE. MOLDED SYNTHETIC BEARINGS WITH LOCKING POSITION REGULATOR. WHERE POSITION REGULATOR IS NOT ACCESSIBLE PROVIDE COUPLING AND EXTENSION ROD FOR CEILING OR WALL INSTALLATION.

10. FIRE DAMPERS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES. PROVIDE AN ACCESS DOOR FOR FUSIBLE LINK REPLACEMENT. DAMPERS SHALL BE FOLDED BLADE TYPE, ARRANGED OUT OF THE AIRSTREAM.

INSTALL AND PROVIDE HANGERS FOR ALL DUCTWORK PER SMACNA STANDARDS AND PER LOCAL CODE.

12. UNLESS NOTED OTHERWISE, DUCT DIMENSIONS ON THE PLANS ARE INSIDE CLEAR DIMENSIONS.

13. TRAPEZE HANGERS SHALL BE MIN. 1"X2"X1"X18 GUAGE CHANNELS WITH MIN. 1"X18 GUAGE STRAPS TO STRUCTURAL SUPPORTS.

14. EXPOSED DUCTWORK SHALL BE CLEANED OF DEBRIS AND OIL, WIPED DOWN WITH VINEGAR OR OTHER SURFACE PREPARATION CHEMICAL TO PREPARE DUCT FOR PAINT.

15. PROVIDE POLYMERIC RUBBER DUCT SEALANT FOR USE ON BOTH INTERIOR LOCATED AND EXPOSED TO OUTDOOR DUCTWORK. SEALER SHALL HAVE HIGH BONDING STRENGTH FOR FIRST TIME SEALING OF JOINTS IN LOW, MEDIUM AND HIGH PRESSURE DUCT SYSTEMS. SEALER SHALL BE HIGH IN SOLID CONTENT. PROVIDE A TWO PART TAPE SEALING SYSTEM CONSISTING OF WOVEN FIBER TAPE IMPREGNATED WITH GYPSUM MINERAL COMPOUND AND A MODIFIED ACRYLIC/SILICONE ACTIVATOR THAT REACTS EXOTHERMICALLY WITH THE TAPE. TWO PART TAPE SEALING SYSTEM MUST BE RATED FOR BOTH INDOOR AND OUTDOOR APPLICATIONS. TAPE SHALL NOT CONTAIN ASBESTOS.

#### K. ELECTRICAL MOTORS

11.

THIS CONTRACTOR SHALL FURNISH MOTORS, MOTOR STARTERS AND CONTROLS FOR ALL MECHANICAL EQUIPMENT PROVIDED HEREIN; INCLUDING SETTING OF ALL LOOSE MOTORS FURNISHED. MOUNTING OF STARTERS AND ALL POWER WIRING WILL BE BY ELECTRICAL TRADES.

#### M. TEMPERATURE CONTROL

THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPERATURE CONTROL DEVICES, WIRING, PROGRAMMING, ETC.

2. ALL NEW TEMPERATURE CONTROL WIRING SHALL BE COMPATIBLE WITH NEW SYSTEMS.

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

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## Riverside Park Restrooms

New Construction

600 Labaree St Watertown, WI

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ABBREVIATIONS			LIGHTI	NG LEGEND	GENER	AL LEGEND
ABBREVIATIONS           AC         ALTERNATING CURRENT AFG           AGO         ALTERNATING CURRENT AFG           ABOVE FINISHED GRADE ALU         ADVING JURISDICTION ALT           ALTERNATE         ADVING JURISDICTION ALT           ALTERNATE         ADVING JURISDICTION ALT           ALTERNATE         ANPERE           AOR         AREA OF REFUGE MASTER STATION AORR           AORR         AREA OF REFUGE MASTER STATION AORR           AORR         AREA OF REFUGE MASTER STATION AORR           AORR         AREA OF REFUGE MASTER STATION AORR           AOR         RAFE OF REFUGE MASTER STATION AORR           ATTO         AUTOMATIC TRANSPER SWITCH           AUTO         AUTOMATIC           AV         AUDIO VISUAL           BLOG         BUILDING           CO         CONDUIT           CAB         CABINET           CAT         COUNDUT AN CONSTRUCTION DOCUMENT           CAS         CONDUCA OR CONSTRUCTION DOCUMENT           CAT         CIRCUIT TRANSFORMER           CU         COPPER           BB         DECIDEL           DB         DINEDION           DM         DOWN           PST         DOUBLE POLE, DOUBLE THROW	NIC NL NO NTS OC OD OL OS P PA PB PC PE PED PFD PF PH PL PNL PWR NT RCC RECPT SS SW T TC TV TVSS SS SW T UL UNV UPS V VAC VFD W WAP WP X- XFER XFMR	NOT INCLUDED IN CONTRACT NIGHT LIGHT NORMALLY OPEN NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE DIAMETER PUBLIC ADDRESS PUSHBUTTON PLUBBING CONTRACTOR PHOTOELECTRIC CELL, PHOTOEYE PEDESTAL PENDANT POWER FACTOR PHASE PLOT LIGHT PAREL SHORT CIRCUIT CAPACITY SURGE PROTECTION DEVICE SPECIFICATION SINCLE POLE, SINGLE THROW SWITCH STATION SWITCH TAMEERPROTE TIMECLOCK TELEVISION TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL UNDERWRITERS LABORATORY UNIVERSAL UNIVTERRUPTIBLE POWER SUPPLY VOLT AUT OR WIRE WIRCLESS ACCESS POINT WEATHERPROOF EXISTING TRANSFORMER		NG LEGEND SWITCH SWITCH STATION SWITCH-BOX OCCUPANCY SENSOR CEILING MOUNT OCCUPANCY SENSOR CEILING MOUNT OCCUPANCY DAYLIGHT SENSOR CEILING MOUNT DAYLIGHT SENSOR CEILING MOUNT VACANCY SENSOR CEILING MOUNT VACANCY SENSOR CEILING MOUNT UACHNCY SENSOR CEILING MOUNT LIGHT FIXTURE - EMERGENCY STRIP/INDUSTRIAL FIXTURE LINEAR WALL BRACKET WALL MOUNTED FIXTURE CEILING MOUNTED FIXTURE CEILING MOUNT LUMINAIRE BOLLARD FLOOD LIGHT CEILING OR WALL MOUNTED EXIT, SINGLE FACE EMERGENCY WALL PACK (EBU) EMERGENCY WALL PACK REMOTE HEAD		LEGGEND         NEW ELECTRICAL COMPON         EXISTING ELECTRICAL         KEY NOTE         TYPICAL CIRCUIT         UNSWITCHED CIRCUIT         SINGLE RECEPTACLE         DUPLEX FLOOR OUTLET         DUUBLE DUPLEX FLOOR OUTLET         DUUBLE DUPLEX FLOOR OUTLET         GROUND         TRANSOCKET         SURFACE MOUNT PANEL         RECESSED PANEL         METER         NON-FUSED DISCONNECT         MAGNETIC STARTER         COMBINATION STARTER         MOTOR         POWER ASSIST OPERATOR
MVMEDIUM VOLTAGENNEUTRALNANOT APPLICABLENACNOTIFICATION APPLIANCE CIRCUITNCNORMALLY CLOSEDNECNATIONAL ELECTRICAL CODENFPANATIONAL FIRE PROTECTION AGENCYNFSSNON-FUSED SAFETY SWITCH						

	GENERAL NOTES	
INENT IMPONENT L COMPONENT	1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED COMPONENTS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL, EQUIPMENT, DEVICES, FIXTURES, SERVICE REQUIREMENTS NECESSARY TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS, FOR A COMPLETE AND FUNCTIONAL INSTALLATION AND SHALL MAINTAIN APPROPRIATE CLEARANCES.	- Architect 259 South Street, Suite A WAUKESHA, WI 53186
	2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION	p: 833-380-6180
	<ol> <li>CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.</li> </ol>	Project Info. — 22005 —
	<ol> <li>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.</li> </ol>	Riverside Park Restrooms
	<ol> <li>THE ODEIGATIONS OF THE CONTRACT.</li> <li>THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AND INCLUDE IN THEIR BID ANY ADDITIONAL WORK REQUIRED BY THIS TRADE.</li> </ol>	New Construction
ABOVE SH OR AT	6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT SWITCHES, POWER, AND COMMUNICATIONS OUTLETS. ALL OUTLETS SHALL BE MOUNTED VERTICALLY UNLESS OTHERWISE NOTED. COORDINATE ALL FINAL DEVICE REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION.	Watertown, WI
ACLE ET OUTLET	7. ALL CONDUITS SHOULD BE SUPPORTED IN COMPLIANCE WITH CODE REQUIREMENTS AND INSTALLED IN A MANNER AS TO AFFORD MINIMUM INTERFERENCE WITH OTHER TRADES. ALL CONDUITS ABOVE CEILING SHALL BE RIGIDLY SUPPORTED BY SUITABLE HANGERS FROM THE STRUCTURAL SLAB DECK OR FRAMING ABOVE INDEPENDENT OF THE CEILING, CEILING SUPPORT SYSTEM	
	<ul> <li>AND OTHER TRADE COMPONENTS. ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED ON DRAWINGS.</li> <li>8. FIRE RATED SEALS SHALL BE PROVIDED FOR ALL CONDUIT PENETRATIONS THROUGH FIRE RATED FLOORS WALLS</li> </ul>	۲.
	<ol> <li>9. CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTION CONFIGURATIONS BEFORE PURCHASE. ALL DEVICES SHOWN ARE FOR REFERENCE ONLY, TO COMMUNICATE DESIGN INTENT, FINAL LOCATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION. THIS NOTE SHALL APPLY TO, BUT NOT BE LIMITED TO, RECEPTACLES, SWITCHES, DATA PORTS, AUDIO/VIDEO DEVICES, AND TELEPHONE JACKS.</li> </ol>	D D NS NS
Г	10. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL ABOVE CEILING REQUIREMENTS (PLENUM, NON-PLENUM, AIR HANDLING, ETC.) AS REQUIRED BY LOCAL AUTHORITY BEFORE THE INSTALLATION AND PURCHASE OF ELECTRICAL EQUIPMENT, MATERIALS AND DEVICES, WIRING, CABLING, AND THE ORDERING OF LIGHTING FIXTURES.	), ANI
)R PUSH PLATE	11. CONDUCTOR SIZES INDICATED ARE MINIMUM SIZES BASED ON 60°C COPPER CONDUCTOR 100 AMPS OR LESS AND 75°C COPPER CONDUCTOR GREATER THAN 100 AMPS. AMPACITIES OF CONDUCTORS DO NOT TAKE VOLTAGE DROP INTO CONSIDERATION. CONTRACTOR SHALL SIZE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING, AND LIGHTING LOADS, OR COMBINATION OF SUCH LOADS, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5 PERCENT, TO PROVIDE REASONABLE EFFICIENCY OF OPERATION.	ELECTR LEGENC ABBRE\
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	ELECTRICAL SHEET INDEX         NUMBER       SHEET NAME         E0.1       ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS         E1.0       ELECTRICAL SITE PLAN         E2.0       ELECTRICAL LIGHTING PLAN         E3.0       ELECTRICAL POWER & SYSTEMS FLOOR PLAN	Revisions No. Date Description 01.23.2024 Bid & Permit Set
	ELECTRICAL SHEET INDEX         NUMBER       SHEET NAME         E0.1       ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS         E1.0       ELECTRICAL SITE PLAN         E2.0       ELECTRICAL LIGHTING PLAN         E3.0       ELECTRICAL POWER & SYSTEMS FLOOR PLAN         E4.0       ELECTRICAL RISER & SCHEDULES	Revisions No. Date Description 01.23.2024 Bid & Permit Set
	ELECTRICAL SHEET INDEX         NUMBER       SHEET NAME         E0.1       ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS         E1.0       ELECTRICAL SITE PLAN         E2.0       ELECTRICAL LIGHTING PLAN         E3.0       ELECTRICAL POWER & SYSTEMS FLOOR PLAN         E4.0       ELECTRICAL RISER & SCHEDULES	Revisions
	ELECTRICAL SHEET INDEX           NUMBER         SHEET NAME           E0.1         ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS           E1.0         ELECTRICAL SITE PLAN           E2.0         ELECTRICAL LIGHTING PLAN           E3.0         ELECTRICAL POWER & SYSTEMS FLOOR PLAN           E4.0         ELECTRICAL RISER & SCHEDULES	No. Date Description 01.23.2024 Bid & Permit Set
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	ELECTRICAL SHEET INDEX         NUMBER       SHEET NAME         E0.1       ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS         E1.0       ELECTRICAL SITE PLAN         E2.0       ELECTRICAL LIGHTING PLAN         E3.0       ELECTRICAL RISER & SYSTEMS FLOOR PLAN         E4.0       ELECTRICAL RISER & SCHEDULES	Revisions
	ELECTRICAL SHEET INDEX         NUMBER       SHEET NAME         E0.1       ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS         E1.0       ELECTRICAL SITE PLAN         E2.0       ELECTRICAL LIGHTING PLAN         E3.0       ELECTRICAL RISER & SCHEDULES	No. Date Description 01.23.2024 Bid & Permit Set Description 01.23.2024 Bid & Description De
	ELECTRICAL SHEET INDEX         NUMBER       SHEET NAME         E0.1       ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS         E1.0       ELECTRICAL SITE PLAN         E2.0       ELECTRICAL LIGHTING PLAN         E3.0       ELECTRICAL RISER & SCHEDULES	Revisions

![](_page_143_Figure_0.jpeg)

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KE	EY 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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Architect

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▶ Project Info. — 22005 —

# Riverside Park Restrooms

New Construction

600 Labaree St Watertown, WI

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**ibc** engineering services, inc.

HIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS.




## SHEET NOTES

1. EMERGENCY BATTERY UNITS SHALL BE CIRCUIT UNSWITCHED PORTION OF THE NEAREST LIGHTI CIRCUIT SERVING THE IMMEDIATE AREA.

	KE	EY NOTES
TED TO THE TING BRANCH	E4	MANUAL SWITCH IS TO SERVE LOCAL ELECTRICAL/MECHANICAL ROOM. SS6 IS TO OVERRIDE INTERIOR TOILET LIGHTS AND THE OTHER MANUAL PILOT SWITCH IS TO OVERRIDE EXTERIOR LIGHTS. SWITCHES SHALL BE LABELED INTERIOR LIGHTING AND EXTERIOR LIGHTING. SS6 SHALL BE 4 ZONE DIMMING SWITCH.
	E5	LIGHT FIXTURE TYPE A TO BE MOUNTED TO BOTTOM OF CEILING UNLESS INDICATED OTHERWISE.
	E6	PROVIDE AUXILIARY CONTACT FOR FAN CONTROL. SWITCH DOES NOT CONTROL FAN.
	E7	ZONE LOW VOLTAGE SWITCH, ONE CONTROL FOR EACH TOILET ROOM.
	E8	BOTTOM OF FIXTURE SHALL BE 80" AFF.

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# Riverside Park Restrooms

New Construction

600 Labaree St Watertown, WI



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ELECTRICAL POWER & SYSTEMS FLOOR PLAN SCALE: 1/4" = 1'-0"

KE	EY 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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## Riverside Park Restrooms

New Construction

600 Labaree St Watertown, WI





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PANEL NAME:		AME:	R-R										
	10		ELECTRICAL				120/240			_	10,000		
	SUPPI	Y FROM:				PHASES:	120/240		MAINS TYPE:		MCB		
	MC		SURFACE			WIRES:	3		BUS RATING:		200A		
	FNC	OSURE	NEMA 250 TYPE 4			TINEO.	0		MCB RATING:		150A		
	2.110										100/1		
POLE NO.	POLES	AMP	DESCRIPTION	NOTES		A		3	DESRIPTION	NOTES	AMP	POLES	POLE NO.
1	1	20	LIGHTS		920	540			RECPT - RR		20	1	2
3	1	20	EXHAUST FAN 4 AND LIGHTS				531	540	RECPT - ELECTRICAL ROOM/PLUMBING CHASE		20	1	4
5	1	20	RECPT - RR		410	360			RECPT - FAMILY RR/MOTHERS ROOM		20	1	6
7	1	20	EXHAUST FAN 1,5				700	540	RECPT - OUTSIDE		20	1	8
9	1	20	EXHAUST FAN 2,3		700	2400			HAND DRYER	1	25	1	10
11	1	20	SPARE					2400	HAND DRYER	1	25	1	12
13	1	20	RECIRCULATION PUMP		55	2400			HAND DRYER	1	25	1	14
15	2	50	WATER HEATER				4800	2400	HAND DRYER	1	25	1	<mark>16</mark>
17	-	-	-		4800	2400			HAND DRYER	1	25	1	18
<mark>1</mark> 9	1	20	SPARE					2400	HAND DRYER	1	25	1	20
21	1	20	SPARE						SPARE		20	1	22
23	1	20	SPARE						SPARE		20	1	24
25													26
27													28
29												L	30
31												<u> </u>	32
33												L	34
35												<u> </u>	36
37												<u> </u>	38
39												<u> </u>	40
41													42
			PHASE TOTAL:		1	4985	14	311					<u> </u>
			TOTAL LOAD:			29	9296						<u> </u>
NOTES:													

1. GETBREAKER 2. SHUNT TRIP BREAKER

	MOTOR WIRING SCHEDULE											
Ю.	0. LOAD DESCRIPTION LOC. HP FLA VOLT PH. FEED FROM BREAKER SEE NOTE											
							PANEL	CIRCUIT	SIZE	POLE		
1	EF-1	WOMEN	1/4	3.8	120	1	RR	7	20	1	1,3	
2	EF-2	MEN	1/4	3.8	120	1	RR	9	20	1	1,3	
3	EF-3	FAMILY		0.1	120	1	RR	9	20	1	1.3	
4	EF-4	JANITOR		0.1	120	1	RR	3	20	1	2,3	
5	EF-5	MOTHER		0.1	120	1	RR	7	20	1	1,3	

A. ELECTRICAL CONTRACTOR TO PROVIDE PROPERLY RATED FUSED DISCONNECT FUSED PER EQUIPMENT NAMEPLATE WITHIN SIGHT OF EQUIPMENT, UNLESS OTHERWISE NOTED IN THE MECHANICAL DRAWINGS.

B. REFER TO MECHANICAL SHEETS FOR TYPE OF CONTROLLERS PROVIDED WITH THE HVAC EQUIPMETNT. CONTROLLER TO BE WIRED BY EC UNLESS INDICATED OTHERWISE. NOTES:

1. EXHAUST FANS ARE CONTROLLED VIA CONTACT IN COMBINATION OCCUPANCY/DAYLIGHT SENSOR. 2. EXHAUST FANS ARE CONTROLLED ON/OFF WITH LIGHT SWITCH

3. PROVIDE NON FUSED DISCONNECT SWITCH

	SPE	CIAL P	URP	OSE	OU	ITL	ET S	CHI	EDUI	E		
NO.	LOAD DESCRIPTION	LOCATION	KW	FLA	VOLT	PH	FEED	FROM	BREA	KER		SEE
							PANEL	CKT	SIZE	POLE	OUTLET	NOTE
1	HAND DRYER	MENS	2.4	20	120	1	RR	10	25	1	DIRECT	
2	HAND DRYER	MENS	2.4	20	120	1	RR	12	25	1	DIRECT	
3	HAND DRYER	MENS	2.4	20	120	1	RR	14	25	1	DIRECT	
4	HAND DRYER	WOMENS	2.4	20	120	1	RR	16	25	1	DIRECT	
5	HAND DRYER	WOMENS	2.4	20	120	1	RR	18	25	1	DIRECT	
6	HAND DRYER	WOMENS	2.4	20	120	1	RR	20	25	1	DIRECT	
7	RECIRCULATION PUMP	ELEC/MECH	0.055	-	120	1	RR	13	20	1	DIRECT	2
8	WATER HEATER	ELEC/MECH	9.5		240	1	RR	15,17	50	2	DIRECT	1
REMARK	S:	, <u>-</u>		•	•			•				

A. REFER TO EQUIPMENT DATA SHEET FOR ADDITIONAL INFORMATION.

B. COORDINATE WITH EQUIPMENT SUPPLIER FOR INSTALLATION REQUIREMENTS. C. FOR DIRECT CONNECTED EQUIPMENT, TERMINATE EQUIPMENT WIRING IN A JUNCTION BOX WITH PROPERLY RATED WIRE NUTS.

NOTES:

1. PROVIDE A FUSED DISCONNECT FUSED PER EQUIPMENT NAME PLATE.

2. PROVIDE A PILOT LIGHT DISCONNECT TO ILLUMINATE WHEN PUMP IS ENERGIZED.

	LIGHTING FIXTURE SCHEDULE											
FIXT.	DESCRIPTION		LAMPING		VOLT	MANUFACTURER	CATALOG NUMBER	MOUNTING	SEE NOTE			
		NO.	ТҮРЕ	INPUT	1							
А	SURFACE MOUNT STRIP LIGHT		2923 LUMEN, 4000K LED	44.5	120	COOPER	FVS4-P-4-LD4-1-HI-40-120-OPL-EDD1	SURFACE				
В	WALL MOUNT STRIP LIGHT		2923 LUMEN, 4000K LED	44.5	120	COOPER	FVS4-WP-4-LD4-1-HI-40-120-OPL-EDD1	SURFACE				
EX1	EXTERIOR WALL MOUNT		3500 LUMEN, 4000K LED	25	UNV	HUBBELL	RWL1-48L-25-4K7-3-PC	SURFACE				
EBU	EMERGENCY BATTERY UNIT		LED W/ UNIT	3	UNV	LITHONIA	AFO-W-MVOLT-N-SD-CW	SURFACE				
REMARKS:				*			· · ·					
Δ	CONTRACTOR SHALL CONFIRM CEILING 1	YPF RF	OUREMENTS PRIOR TO THE RELE	ASE OF THE OF								

A. CONTRACTOR SHALL CONFIRM CEILING TYPE REQUIREMENTS PRIOR TO THE RELEASE OF THE ORDER.

B. CATALOG NUMBERS ARE TO PROVIDE GUIDANCE ONLY AND MAY NOT BE COMPLETE.

C. FIXTURES SPECIFIED TO MEET DESIGN INTENT. EQUALS MAY BE SUBSTITUTED SUBJECT TO DESIGN TEAM'S APPROVAL. D. PROVIDE ALL PARTS AND PIECES NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

E. ARCHITECT TO DETERMINE ALL FINISHES.

F. VERIFY DIMMING CONTROLS ARE COMPATIBLE WITH DIMMING DRIVER SELECTED FOR FIXTURE.

FEEDER SCHEDULE													
		SINGLE	PHASE, 2 WIRE	1 OR 3	PHASE, 3 WIRE	THREE	PHASE, 4 WIRE	ALL					
ID #	AMPS	CND PHASE		CND	ND PHASE		PHASE	EQUIP. GRD.					
		SIZE	CONDUCTORS	SIZE	CONDUCTORS	SIZE	CONDUCTORS	CONDUCTOR					
1	10	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12					
2	15	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12					
3	20	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12					
4	25	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10					
5	30	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10					
6	35	3/4"	(2) #8	3/4"	(3) #8	1"	(4) #8	#10					
7	40	3/4"	(2) #8	3/4"	(3) #8	1"	(4) #8	#10					
8	45	3/4"	(2) #6	1"	(3) #6	1"	(4) #6	#10					
9	50	3/4"	(2) #6	1"	(3) #6	1"	(4) #6	#10					
10	60	1"	(2) #4	1"	(3) #4	1-1/4"	(4) #4	#10					
11	70	1"	(2) #4	1-1/4"	(3) #4	1-1/4"	(4) #4	#8					
12	80	1"	(2) #3	1-1/4"	(3) #3	1-1/4"	(4) #3	#8					
13	90	1-1/4"	(2) #2	1-1/4"	(3) #2	1-1/2"	(4) #2	#8					
14	100	1-1/4"	(2) #1	1-1/2"	(3) #1	1-1/2"	(4) #1	#8					
15	110	1"	(2) #2	1-1/4"	(3) #2	1-1/2"	(4) #2	#6					
16	125	1-1/4"	(2) #1	1-1/2"	(3) #1	1-1/2"	(4) #1	#6					
17	150	1-1/4"	(2) #1/0	1-1/2"	(3) #1/0	2"	(4) #1/0	#6					
18	175	N / A	N / A	2"	(3) #2/0	2"	(4) #2/0	#6					
19	200	N / A	N / A	2"	(3) #3/0	2"	(4) #3/0	#6					
20	225	N / A	N / A	2"	(3) #4/0	2-1/2"	(4) #4/0	#4					
21	250	N / A	N / A	2-1/2"	(3) 250 kcmil	3"	(4) 250 kcmil	#4					
22	300	N / A	N / A	3"	(3) 350 kcmil	3"	(4) 350 kcmil	#4					
23	350	N / A	N / A	3"	(3) 500 kcmil	3-1/2"	(4) 500 kcmil	#3					
24	400	N / A	N / A	(2) 2"	2 SETS OF (3) #3/0	(2) 2"	2 SETS OF (4) #3/0	#3					
25	450	N / A	N / A	(2) 2"	2 SETS OF (3) #4/0	(2) 2-1/2"	2 SETS OF (4) #4/0	#2					
26	500	N / A	N / A	(2) 2-1/2"	2 SETS OF (3) 250 kcmil	(2) 3"	2 SETS OF (4) 250 kcmil	#2					
27	600	N / A	N / A	(2) 3"	2 SETS OF (3) 350 kcmil	(2) 3"	2 SETS OF (4) 350 kcmil	#1					
28	700	N / A	N / A	(2) 3"	2 SETS OF (3) 500 kcmil	(2) 3-1/2"	2 SETS OF (4) 500 kcmil	#1/0					
29	800	N / A	N / A	(3) 2-1/2"	3 SETS OF (3) 300 kcmil	(3) 3"	3 SETS OF (4) 300 kcmil	#1/0					
30	900	N / A	N / A	(3) 3"	3 SETS OF (3) 350 kcmil	(3) 3"	3 SETS OF (4) 350 kcmil	#2/0					
31	1000	N / A	N / A	(4) 2-1/2"	4 SETS OF (3) 250 kcmil	(4) 3"	4 SETS OF (4) 250 kcmil	#2/0					
32	1200	N / A	N / A	(4) 3"	4 SETS OF (3) 350 kcmil	(4) 3"	4 SETS OF (4) 350 kcmil	#3/0					
33	1600	N / A	N / A	(5) 3"	5 SETS OF (3) 400 kcmil	(5) 3"	5 SETS OF (4) 400 kcmil	#4/0					
34	1800	N / A	N / A	(6) 3"	6 SETS OF (3) 350 kcmil	(6) 3"	6 SETS OF (4) 350 kcmil	250 kcmil					
35	2000	N / A	N / A	(6) 3"	6 SETS OF (3) 500 kcmil	(6) 3-1/2"	6 SETS OF (4) 500 kcmil	250 kcmil					
36	2500	N / A	N / A	(8) 3"	8 SETS OF (3) 400 kcmil	(8) 3"	8 SETS OF (4) 400 kcmil	350 kcmil					
37	3000	N/A	N/A	(8) 3"	8 SETS OF (3) 500 kcmil	(8) 3-1/2"	8 SETS OF (4) 500 kcmil	400 kcmil					

SCHEDULE BASED ON NEC TABLE 310.15(B)(16), 60 DEGREE CELSIUS CONDUCTOR 100 AMPS OR LESS AND 75 DEGREE CELSIUS CONDUCTOR GREATER THAN 100 AMPS. SIZES REFERENCED ARE MINIMUM. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONDUCTOR SIZES TO ACCOMMODATE VOLTAGE DROP. PLAN NOTATION:

- SINGLE-PHASE, TWO-WIRE FEEDER, NUMBER IS THE FEEDER ID #

X - SINGLE OR THREE-PHASE, THREE-WIRE FEEDER, NUMBER IS THE FEEDER ID #

- THREE PHASE, FOUR-WIRE FEEDER, NUMBER IS THE FEEDER ID#



# PARTIAL ONE-LINE DIAGRAM

NOTES: 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PANEL EQUIPMENT RATED FOR OR EXCEEDING THE SHORT CIRCUIT RATING AT THE POINT OF INSTALLATION AND PROVIDING ARC FLASH LABELS PER NEC.





■ 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



Drawn by	Checked by

# Revisions — No. Date Description 01.23.2024 Bid & Permit Set Ū S nit $\infty$ $\mathcal{O}$ Sheet No. \_\_\_\_

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1. SCOPE	COMPLETION OF HIS WORK IN SUCH A MANNER AS TO CAUSE THE POSSIBLE INTERFERENCE WITH THE OWNER'S OPERATION. ALL W PEOLUPED IN THE EXISTING BUILDING SHALL BE DONE IN A MANNE	LEAST 18.1. THE INSTALLATION OF ALL WORK SHALL BE MADE SO TH ORK COMPONENT PARTS WILL FUNCTION AS A WORKABLE SY AND REPORT OF THE OPERATION AND SERVICE OF THE OPERATION AND
1.1. APPLICABLE REQUIREMENTS OF CONDITIONS OF CONTRACT AND OF SECTIONS LISTED UNDER GENERAL REQUIREMENTS APPLY TO WORK OF THIS SECTION.	TIME ACCEPTABLE TO THE OWNER. OUTAGES AND OTHER WORK RENDERING EXISTING EQUIPMENT INOPERATIVE SHALL BE HELD T MINIMUM - PRIOR ARRANGEMENTS FOR EACH SHALL BE MADE WIT	ALL ACCESSORIES NECESSARY FOR ITS OPERATION, AN EQUIPMENT PROPERLY ADJUSTED AND IN WORKING ORI O A EXECUTED IN CONFORMITY WITH THE BEST ACCEPTED S H THE TRADE SO AS TO CONTRIBUTE TO EFFICIENCY AND
2. GENERAL PROVISIONS	OWNER AND SHALL BE ACCEPTABLE AS TO TIME AND DURATION	ALSO BE EXECUTED SO THAT THE INSTALLATION WILL C ITSELF TO THE BUILDING STRUCTURE, ITS EQUIPMENT A
2.1. IN GENERAL, THE WORK INCLUDES: ELECTRICAL WORK AND THE KINDRED MATERIALS AND OPERATIONS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED IN THE FOLLOWING ARTICLES.	12.2.2. ELECTRICAL EQUIPMENT IN CONFLICT WITH CONSTRUCTION SHAL REMOVED AND/OR RELOCATED AS INDICATED ON THE DRAWINGS, DIRECTED OR REQUIRED. THIS CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT PER FACED FROM CERVICE AS A DESILIT.	L BE AS 19. DRAWINGS OF OTHER TRADES
<ul> <li>2.2. JOB INFORMATION: OBTAIN AT BUILDING INCLUDING:</li> <li>2.2.1. CONDITIONS AFFECTING THIS SECTION OF THE WORK.</li> <li>2.2.2. ACCESSIBILITY</li> <li>2.2.3 STOPAGE SPACE</li> </ul>	CONSTRUCTION, AND NO EQUIPMENT REMOVED SHALL BE REUSE AS SPECIFICALLY DIRECTED ON THE DRAWINGS OR ELSEWHERE F THE OWNER SHALL HAVE THE PRIVILEGE TO RETAIN OWNERSHIP ELECTRICAL EQUIPMENT THAT HAS BEEN REMOVED, AND ALL SUC EQUIPMENT SHALL BE RELOCATED TO A DESIGNATED TEMPORARY	OF       19.1.       THE CONTRACTOR SHALL CONSULT THE DRAWINGS OF "         D, EXCEPT       VARIOUS OTHER TRADES; FIELD LAYOUTS OF THE PARTI         IEREIN.       WORK OF THE OTHER TRADES; THEIR SHOP DRAWINGS,         OF ANY       GOVERNED ACCORDINGLY IN LAYING OUT HIS WORK.         H       19.2.       SPECIFICALLY EXAMINE SHOP DRAWINGS TO CONFIRM V
3. GENERAL REQUIREMENTS	LOCATION FOR STORAGE UNTIL REMOVED BY THE OWNER. ALL O EQUIPMENT, CONDUIT, CONDUCTORS, AND MISCELLANEOUS HARI REMOVED SHALL BECOME THE PROPERTY OF THIS CONTRACTOR	THER CHARACTERISTICS, AND OTHER WIRING REQUIREMENTS DWARE EQUIPMENT. BRING ANY DISCREPANCIES TO THE ATTEN AND SHALL
3.1. THIS SECTION OF THE SPECIFICATIONS APPLIES TO ALL ELECTRICAL WORK. THE	BE REMOVED FROM THE SITE.	20. FIELD MEASUREMENTS
AND THE CONTRACTOR SHALL CONSULT THEM IN DETAIL. ELECTRICAL WORK INDICATED IN OTHER SECTIONS OF THE SPECIFICATIONS TO BE DONE BY THE ELECTRICAL CONTRACTOR SHALL BE INCLUDED IN THE WORK OF THIS SECTION.	12.2.3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK OF O TRADES AS MAY BE NECESSARY TO FACILITATE THE INSTALLATIO ELECTRICAL WORK IN THE EXISTING BUILDING. SUCH WORK NECE THAT IS NORMALLY DONE BY OTHER TRADES AND IS NOT COVERE	THER 20.1. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMEN N OF WORK AND SHALL ASSUME THE FULL RESPONSIBILITY FO ISSARY D AS A 21 STRUCTURAL INTERFERENCES
4. DEFINITIONS	PART OF OTHER DIVISIONS OF THE WORK SHALL BE DONE UNDER DIRECTION AND AT THE EXPENSE OF THE ELECTRICAL CONTRACT	THE OR. 21.1. SHOULD ANY STRUCTURAL INTERFERENCES PREVENT T
<ul> <li>4.1. CERTAIN TERMS USED HEREIN; ON THE DRAWINGS; AND IN THE CONTRACT DOCUMENTS, SHALL BE DEFINED AS FOLLOWS:</li> <li>4.1.1. PROVIDE: FURNISH AND INSTALL COMPLETE AND READY FOR SERVICE.</li> <li>4.1.2 EXPOSED: EXPOSED TO VIEW IN ANY BOOM HALL WAY PASSAGEWAY OR</li> </ul>	12.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PAT AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE BUILDING IN ACCEPTABLLE CONDITION .	CHING, OUTLETS, RUNNING OF CONDUITS, ETC., AT POINTS SHO CHING, NECESSARY MINOR DEVIATIONS THEREFROM, AS DETER EXISTING ARCHITECT, MAY BE PERMITTED. MINOR CHANGES IN TH OUTLETS OR EQUIPMENT IF DECIDED UPON BEFORE
4.1.2. EXTOCLE. EXTOCLE TO VIEW IN ANT ROOM, TALEWAY, TAGGAGEWAY, OR OUTSIDE. 4.1.3. APPROVAL: THE APPROVAL OF THE ARCHITECT IN WRITING OR BY SIGNED	13. COMPLETION DATES	22. EXAMINATION OF PLANS, SPECIFICATIONS AND SITE
5. INTENT OF DRAWINGS AND SPECIFICATIONS	13.1. THIS CONTRACTOR SHALL BE IN A POSITION TO MEET ALL COMPLETION ESTABLISHED BY THE ARCHITECT AND SHALL FURNISH ALL LABOR OF A CLASSES PEOLUPED TO MEET SUCH SCHEDULES AND COMPLETION DAT	DATES LL 22.1. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FA
5.1. THESE SPECIFICATIONS AND ATTENDANT DRAWINGS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OF EXPRESSED	14. STANDARDS, CODES AND PERMITS	ALL FEATURES OF THE BUILDING AND SITE WHICH MAY A OF HIS WORK. NO EXTRA PAYMENT WILL BE ALLOWED F OBTAIN THIS INFORMATION. IF IN THE OPINION OF THE C OMISSIONS OR ERRORS IN THE PLANS OR SPECIFICATIO
EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICES OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.	14.1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL, STAT LOCAL ELECTRICAL CODES, LAWS, ORDINANCES AND REGULATIONS. CO WITH ALL APPLICABLE OSHA REGULATIONS AND ALL REQUIREMENTS IM THE ALTHORITY HAVING IL INSPICTION	E AND       SHALL CLARIFY THESE POINTS WITH THE ARCHITECT BE         DMPLY       IN LIEU OF WRITTEN CLARIFICATION BY ADDENDUM, RES         POSED BY       FAVOR OF THE GREATER QUANTITY OR BETTER QUALITY
6. DRAWINGS	14.2. ALL MATERIALS SHALL HAVE A U.L. LABEL WHERE A U.L. STANDARD AND EXISTS.	/OR TEST 23. GUARANTEE
6.1. THE ELECTRICAL DRAWINGS DO NOT ATTEMPT TO SHOW THE COMPLETE DETAILS OF BUILDING CONSTRUCTION WHICH AFFECT THE ELECTRICAL INSTALLATION. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, CIVIL, STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER	14.3. PREPARE AND SUBMIT TO ALL AUTHORITIES HAVING JURISDICTION, FOR APPROVAL, ALL APPLICATIONS AND WORKING DRAWINGS REQUIRED BY SECURE AND PAY FOR ALL PERMITS AND LICENSES REQUIRED.	R THEIR       23.1.       THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTE         THEM.       COMPONENTS THEREOF, EXCLUDING LAMPS, FOR A PER         THE DATE OF HIS FINAL PAYMENT. HE SHALL REMEDY AI         WORKMANSHIP AND REPAIR OR REPLACE ANY FAULTY E         APPEAR WITHIN THE GUARANTEE PERIOD TO THE ENTIRE
INSTALLATION OF THIS WORK. 6.2. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE A/E FOR RESOLUTION.	15. CLEAN-UP 15.1. THIS CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FRO EXCESSIVE ACCUMULATION OF WASTE MATERIAL OR RUBBISH RESULTI	ARCHITECT AT NO ADDITIONAL CHARGE.
6.3. THE CONTRACTOR IS CAUTIONED THAT DIAGRAMS SHOWING ELECTRICAL CONNECTIONS AND/OR CIRCUITING ARE DIAGRAMMATIC ONLY AND MUST NOT BE USED FOR OBTAINING LINEAL RUNS OF WIRE TO CONDUIT. WIRING DIAGRAMS DO	HIS WORK, INCLUDING TOOLS, SCAFFOLDING AND SURPLUS MATERIALS SHALL LEAVE HIS WORK BROOM-CLEAN OR ITS EQUIVALENT. IN CASE O DISPUTES, THE ARCHITECT MAY ORDER THE REMOVAL OF SUCH PUBBLY	, AND HE 24. ELECTRICAL SYSTEM F
NOT NECESSARILY SHOW THE EXACT PHYSICAL ARRANGEMENT OF THE EQUIPMENT.	CHARGE THE COST TO THE RESPONSIBLE CONTRACTOR AS DETERMINE ARCHITECT. AT THE TIME OF FINAL CLEAN-UP ALL FIXTURES AND EQUIF SHALL BE THOROUGHLY CLEANED AND LEFT IN PROPER CONDITION FOI	PROVIDE ELECTRICAL DISTRIBUTION SYSTEMS AS INDIC.         ID BY THE         WITH ALL NECESSARY BRANCH CIRCUIT WIRING AND AS         PMENT         SPECIFIED HEREINAFTER OR ON INSTALLATION.         R THEIR       24.2
7. MATERIAL AND EQUIPMENT	INTENDED USE.	INCLUDING THE FINAL ELECTRICAL CONNECTION TO ALL EQUIPMENT.
THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND SHALL BE STANDARD PRODUCT OF REPUTABLE MANUFACTURERS. EACH MAJOR COMPONENT OF EQUIPMENT SHALL HAVE THE MANUFACTURER'S NAME, CATALOG NUMBER, AND	16. TESTS 16.1. GENERAL: THE CONTRACTOR SHALL PROVIDE ALL INSTRUMENTATION, L CONDUCT ALL TESTS REQUIRED BY THE ARCHITECT AND ENGINEER. AL SHALL BE MADE BEFORE ANY CIRCUIT OR ITEM OF EQUIPMENT IS PERM	24.3.       PROVIDE LIGHTING FIXTURES AND LAMPS AS DESCRIBED         ABOR AND       SCHEDULE.         .L TESTS       24.4.         ANENTLY       OPERATIONAL SYSTEM.
CAPACITY OR RATING ON A NAMEPLATE, SECURELY AFFIXED ON THE EQUIPMENT IN A CONSPICUOUS PLACE.	ENERGIZED. CIRCUITS SHALL BE PHASED OUT AND LOADS SHALL BE DI AS EVENLY AS POSSIBLE ON ALL PHASES. ALL PHASE CONDUCTORS SH ENTIRELY FREE FROM GROUNDS AND SHORT CIRCUITS. ALL INSTRUME AND PERSONNEL REQUIRED FOR TESTING SHALL BE PROVIDED BY THE	STRIBUTED IALL BE 25. CONDUIT NTATION 25. CONDUIT
7.1. SUCH REQUESTS SHALL BE ACCOMPANIED BY THREE COPIES OF ALL NECESSARY	CONTRACTOR AND ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE.	E OF THE 25.1. PROVIDE A COMPLETE CONDUIT SYSTEM AS REQUIRED AND SWITCH ARRANGEMENTS AS SHOWN ON THE PLANS
ILLUSTRATIONS, CUTS, DRAWINGS AND DESCRIPTIONS OF MATERIAL PROPOSED FOR SUBSTITUTION AND SHALL FULLY DESCRIBE ALL POINTS IN WHICH IT DIFFERS FROM THE ARTICLES SPECIFIED. TWO COPIES WILL BE RETAINED BY THE ARCHITECT AND ONE COPY RETURNED TO THE CONTRACTOR WITH APPROVAL OR	16.2. SYSTEM TESTS: 16.1.1. THE FOLLOWING TESTS ARE REQUIRED PRIOR TO ENERGIZATION ELECTRICAL SYSTEM:	OF THE 25.4. CONDUITS SHALL BE AS REQUIRED BY CODE. 25.3. CONDUITS SHALL BE CONCEALED EXCEPT IN MECHANIC. ANY EXCEPTIONS ARE NOTED ON THE DRAWINGS. 25.4. CONDUITS EXPOSED TO THE EXTERIOR SHALL BE RIGID
REVISIONS INDICATED THEREON.         8.       DAMAGE TO OTHER WORK	16.1.1.1.SERVICE AND BUILDING GROUND TESTS.16.1.1.2.SECONDARY FEEDERS SHALL HAVE AN INSULATION RESISTA UTILIZING A MEGGER APPLYING A TEST POTENTIAL OF 500 V	STEEL OR I.M.C. ALL CONDUIT IN CONCRETE OR UNDER NCE TEST STEEL, I.M.C., OR SCHEDULE 40 PVC CONTAINING A GREE PER CODE. 25.5 ELEXIBLE METAL CONDUIT SHALL BE 1/2" MINIMUM NOMIN
8.1. THE ELECTRICAL CONTRACTOR WILL BE HELD RIGIDLY RESPONSIBLE FOR ALL DAMAGES TO THE WORK OF HIS OWN OR ANY OTHER TRADE RESULTING FROM THE EXECUTION OF HIS WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY	MINIMUM. 16.1.1.3. ESTABLISH SECONDARY PHASE TO GROUND VOLTAGES. 16.1.1.4. SET TRANSFORMER TAPS TO DELIVER NOMINAL RATED VOL 16.1.1.5 ESTABLISH PROPER PHASE RELATIONSHIP AND MOTOR ROT	TAGE. WIRE TO JUMP FLEXIBLE CONDUIT FOR ALL MOTORS. FL
TO ADEQUATELY PROTECT HIS WORK AT ALL TIMES. ALL DAMAGES RESULTING FROM HIS OPERATIONS SHALL BE REPAIRED OR THE DAMAGED PORTIONS REPLACED BY THE PARTY ORIGINALLY PERFORMING THE WORK, (TO THE ENTIRE SATISFACTION OF THE ARCHITECT), AND ALL COST THEREOF SHALL BE BORNE BY	16.2.THE FOLLOWING TESTS ARE REQUIRED UNDER NORMAL LOAD CONDITION16.2.1.RECORD SECONDARY PHASE TO PHASE AND PHASE TO GROUND	ABOVE SUSPENDED CEILINGS. ON: /OLTAGES 26. COUPLINGS, CONNECTORS AND FITTINGS
THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.	AND PHASE CURRENTS AT ALL MAJOR EQUIPMENT, APPARATUS, A SECONDARY FEEDERS. VOLTAGE READINGS SHALL BE TAKEN AT TERMINALS OF DISTRIBUTION CENTERS AND PANELBOARDS.	ND ON ALL LINE SIDE 26.1. USE STANDARD STEEL ITEMS TO PROPERLY ATTACH CO PULL BOXES, CABINETS, ETC., TO PROVIDE A COMPLETE
9.1. THIS CONTRACTOR SHALL COMPLETELY COOPERATE WITH ALL OTHER TRADES IN	<ul> <li>16.2.2. CONFIRM PROPER PHASE RELATIONSHIP AND MOTOR ROTATION.</li> <li>16.2.3. CONFIRM LOAD BALANCE AT DISTRIBUTION CENTERS AND PANELS REBALANCE LOAD IF NECESSARY SUCH THAT THE MINIMUM UNBAIL</li> </ul>	COMPRESSION OR SET SCREWS TYPE FITTINGS. ALL CO INSULATED THROATS; INDENTATION TYPE, DIECAST, AND ANCE ARE NOT ACCEPTABLE. BUSHING FOR RIGID H.W. COND
EFFORT SHALL BE MADE TO PREVENT CONFLICT AND INTERFERENCES AS TO SPACE REQUIREMENTS, DIMENSIONS, LOCATIONS, OPENINGS, SLEEVING OR	BETWEEN PHASES SHALL NOT EXCEED 7-1/2%. 16.2.4. RESET TRANSFORMER TAPS IF NECESSARY TO DELIVER NOMINAL VOLTAGE IDENTIFY FINAL TAP SETTINGS ON TRANSFORMERS NA	INSULATED TYPE USED WITH DOUBLE LOCKNUTS. RATED MEPLATES 27 OUTLET BOXES
TRADE.	16.2.5. CONFIRM OPERATION OF ALL ELECTRICALLY OPERATED APPARAT AS CIRCUIT BREAKERS, TRANSFER SWITCHES, ETC., BY EXERCISIN	US, SUCH NG SAME 27.1. PROVIDE OUTLET BOXES BY APPLETON, STEEL CITY, OR
10. NEGLIGENCE	UNDER LOAD. 16.2.6. CONFIRM VOLTAGE DROP DOES NOT EXCEED NEC STANDARDS.	ACCOMMODATE THE DEVICE INDICATED BY SYMBOL ON ACCORDANCE WITH CODE, WITH THE FOLLOWING MINIM 27.2 OUTLET BOXES SHALL BE DIE FORMED, GALVANIZED ANI
10.1. SHOULD THE CONTRACTOR FAIL TO PROVIDE MATERIALS, TEMPLATES, ETC., OR OTHER NECESSARY INFORMATION CAUSING DELAY OR EXPENSE TO ANOTHER PARTY, HE SHALL PAY THE ACTUAL AMOUNT OF THE DAMAGES TO THE PARTY WHO SUSTAINED THE LOSS.	16.3. RECORD ALL SETTINGS AND CALIBRATIONS OF CIRCUIT BREAKERS, TRA SWITCHES, TRANSFORMERS, METERS, TIMING DEVICES, ETC.	INSFER PLACE PLUMB AND LEVEL WITH ADJACENT CONSTRUCTI CONDUIT FOR SUPPORT. 27.3. MULTI-GANG DIE FORMED BOXES SHALL BE PROVIDED F
11. FIELD CHANGES	16.4. RECORDS: ALL TEST DATA OBTAINED BY THE PEC OR MANUFACTURER/S SHALL BE RECORDED AND FILED WITH THE MAINTENANCE MANUAL AS F PERMANENT JOB RECORDS. TEST DATA SHALL INCLUDE IDENTIFICATIO INSTRUMENTS EMPLOYED. (FIELD TEST ONLY) CONDITION OF TEST (TIM	SUPPLIER INDICATED ADJACENT TO ONE ANOTHER ON THE PLANS. PART OF N OF 28. PULL BOXES AND JUNCTION BOXES E DATE
11.1. SHOULD ANY CHANGE IN DRAWINGS OR SPECIFICATIONS BE REQUIRED TO COMPLY WITH LOCAL REGULATIONS AND/OR FIELD CONDITIONS, THE CONTRACTOR SHALL REFER SAME TO ARCHITECT FOR APPROVAL BEFORE ANY WORK WHICH DEVIATES FROM THE ORIGINAL REQUIREMENTS OF THE DRAWINGS	WEATHER, ETC.), PARAMETERS OF TEST, PERSONNEL CONDUCTING TES ANY PERTINENT INFORMATION OR CONDITIONS NOTED DURING THE TES	AND 28.1. PROVIDE AS REQUIRED BY CODE, OF CODE GAUGE STEE BY THE CODE. COVERS SHALL BE OF THE SAME MATERI. MACHINE SCREWS. BOXES AND COVERS SHALL HAVE GA THEY SHALL BE SECURELY EASTENED TO STRUCTURAL
AND SPECIFICATIONS IS STATTED. IN THE EVENT OF DISAGREEMENTS AS TO THE NECESSITY OF SUCH CHANGES, THE DECISION OF THE ARCHITECT SHALL BE FINAL.	17.4. SUBMIT TO ENGINEER FOR REVIEW, COPIES OF MANUFACTURER'S SHO	29. CONDUCTORS
12. CUTTING AND PATCHING	DRAWINGS AND/OR EQUIPMENT BROCHURE DEPICTING: 17.4.1. LIGHTING FIXTURES AND CONTROLS 17.4.2. PANELBOARDS	29.1. CONDUCTORS SHALL BE NEW SOFT DRAWN COPPER. NO BE STRANDED: NO. 12 SHALL BE MINIMUM SIZE LINESS (
12.1. AS NECESSARY AND WITH APPROVAL TO PERMIT THE INSTALLATION OF CONDUIT OR ANY PART OF THE WORK UNDER THIS BRANCH. ANY COST CAUSED BY	17.4.3.ENCLOSED CONTROLLERS, STARTERS AND DISCONNECTS17.4.4.OVERCURRENT PROTECTION, BREAKERS AND FUSES	WITH 600 VOLT INSULATION, COLOR-CODED AS REQUIRE BE DELIVERED TO JOB SITE IN ORIGINAL CARTONS.
DEFECTIVE OR ILL-TIMED WORK SHALL BE BY THE PARTY RESPONSIBLE THEREFOR. PATCHING OF HOLES, OPENINGS, ETC. RESULTING FROM THE WORK OF THIS BRANCH SHALL BE FURNISHED BY THIS CONTRACTOR.	<ul> <li>17.4.5. LIGHTING CONTROL PANEL</li> <li>17.4.6. OTHER MATERIALS AS SELECTED BY THE ENGINEER.</li> </ul>	29.2. WIRE AND CABLE FOR GENERAL INTERIOR USE SHALL H SIZES SMALLER THAN NO. 8 SHALL COMPLY WITH CODE SIZE NO. 8 AND LARGER SHALL COMPLY WITH CODE FOR
12.2. 1.1DEMOLITION, RENOVATION AND DISPOSITION OF EXISTING EQUIPMENT.	<ul> <li>17.5. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP INDICATING J</li> <li>17.6. ANY EQUIPMENT FABRICATION PRIOR TO SHOP DRAWING REVIEW SHAL</li> <li>THE CONTRACTOR'S RISK</li> </ul>	APPROVAL. 30. WIRE JOINTS, SPLICES AND CONNECTORS L BE AT
12.2.1. THIS CONTRACTOR SHALL NOTE THAT THE EXISTING BUILDING WILL REMAIN IN SERVICE DURING PORTIONS OF THE CONSTRUCTION PERIOD. AREAS OF THE BUILDING WILL BE VACATED AS REQUIRED TO FACILITATE CONSTRUCTION. THIS CONTRACTOR SHALL PROCEED WITH THE	18. WORKMANSHIP	30.1. BRANCH LIGHTING CIRCUITS NO. 10 AND SMALLER SHALI SPRING COMPRESSION CONNECTOR AS MANUFACTUREI AND MANUFACTURING CO. OR PIGGY PIGTAILS AS MANU AND BETTS MANUFACTURING CO.

## ELECTRICAL SPECIFICATIONS

THE INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS WILL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION, AND SHALL BE LEFT WITH ALL EQUIPMENT PROPERLY ADJUSTED AND IN WORKING ORDER. THE WORK SHALL BE EXECUTED IN CONFORMITY WITH THE BEST ACCEPTED STANDARD PRACTICE OF THE TRADE SO AS TO CONTRIBUTE TO EFFICIENCY AND APPEARANCE. IT SHALL ALSO BE EXECUTED SO THAT THE INSTALLATION WILL CONFORM AND ADJUST ITSELF TO THE BUILDING STRUCTURE, ITS EQUIPMENT AND ITS USAGE.

#### INGS OF OTHER TRADES

THE CONTRACTOR SHALL CONSULT THE DRAWINGS OF THE WORK FOR THE VARIOUS OTHER TRADES; FIELD LAYOUTS OF THE PARTIES PERFORMING THE WORK OF THE OTHER TRADES; THEIR SHOP DRAWINGS, AND HE SHALL BE GOVERNED ACCORDINGLY IN LAYING OUT HIS WORK SPECIFICALLY EXAMINE SHOP DRAWINGS TO CONFIRM VOLTAGE, CURRENT CHARACTERISTICS, AND OTHER WIRING REQUIREMENTS FOR UTILIZATION EQUIPMENT. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE A/E.

#### MEASUREMENTS

THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY FOR HIS WORK AND SHALL ASSUME THE FULL RESPONSIBILITY FOR THEIR ACCURACY.

#### CTURAL INTERFERENCES

SHOULD ANY STRUCTURAL INTERFERENCES PREVENT THE INSTALLATION OF THE OUTLETS, RUNNING OF CONDUITS, ETC., AT POINTS SHOWN ON DRAWINGS. THE NECESSARY MINOR DEVIATIONS THEREFROM, AS DETERMINED BY THE ARCHITECT, MAY BE PERMITTED. MINOR CHANGES IN THE POSITION OF THE OUTLETS OR EQUIPMENT IF DECIDED UPON BEFORE ANY WORK HAS BEEN DONE BY THE CONTRACTOR SHALL BE MADE WITHOUT ADDITIONAL CHARGE.

#### NATION OF PLANS, SPECIFICATIONS AND SITE

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE BUILDING AND SITE WHICH MAY AFFECT THE EXECUTION OF HIS WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR THE FAILURE TO OBTAIN THIS INFORMATION. IF IN THE OPINION OF THE CONTRACTOR THERE ARE OMISSIONS OR ERRORS IN THE PLANS OR SPECIFICATIONS. THE CONTRACTOR SHALL CLARIFY THESE POINTS WITH THE ARCHITECT BEFORE SUBMITTING HIS BID. IN LIEU OF WRITTEN CLARIFICATION BY ADDENDUM, RESOLVE ALL CONFLICTS IN FAVOR OF THE GREATER QUANTITY OR BETTER QUALITY.

#### ANTEE

THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE HIS WORK AND ALL COMPONENTS THEREOF, EXCLUDING LAMPS, FOR A PERIOD OF ONE YEAR FROM THE DATE OF HIS FINAL PAYMENT. HE SHALL REMEDY ANY DEFECTS IN WORKMANSHIP AND REPAIR OR REPLACE ANY FAULTY EQUIPMENT WHICH SHALL APPEAR WITHIN THE GUARANTEE PERIOD TO THE ENTIRE SATISFACTION OF THE ARCHITECT AT NO ADDITIONAL CHARGE.

#### RICAL SYSTEM

- PROVIDE ELECTRICAL DISTRIBUTION SYSTEMS AS INDICATED ON THE DRAWINGS WITH ALL NECESSARY BRANCH CIRCUIT WIRING AND ASSOCIATED EQUIPMENT AS SPECIFIED HEREINAFTER OR ON INSTALLATION.
- PROVIDE ALL CIRCUIT WIRING FOR COOLING AND VENTILATING EQUIPMENT INCLUDING THE FINAL ELECTRICAL CONNECTION TO ALL LINE VOLTAGE
- EQUIPMENT PROVIDE LIGHTING FIXTURES AND LAMPS AS DESCRIBED IN LIGHTING FIXTURE
- SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND
- OPERATIONAL SYSTEM.

- PROVIDE A COMPLETE CONDUIT SYSTEM AS REQUIRED TO PROVIDE CIRCUITING AND SWITCH ARRANGEMENTS AS SHOWN ON THE PLANS.
- CONDUIT SIZES SHALL BE AS REQUIRED BY CODE. CONDUITS SHALL BE CONCEALED EXCEPT IN MECHANICAL OR STORAGE ROOMS.
- ANY EXCEPTIONS ARE NOTED ON THE DRAWINGS. CONDUITS EXPOSED TO THE EXTERIOR SHALL BE RIGID HEAVY WALL GALVANIZED
- STEEL OR I.M.C. ALL CONDUIT IN CONCRETE OR UNDERGROUND SHALL BE RIGID STEEL, I.M.C., OR SCHEDULE 40 PVC CONTAINING A GREEN GROUND WIRE SIZED PER CODE.
- FLEXIBLE METAL CONDUIT SHALL BE 1/2" MINIMUM NOMINAL TRADE SIZE. LENGTH SHALL NOT EXCEED 24" FOR CONNECTION TO MOTORIZED EQUIPMENT. GROUNDED LIQUID TIGHT WHERE EXPOSED TO WATER. ADD GREEN GROUND
- WIRE TO JUMP FLEXIBLE CONDUIT FOR ALL MOTORS. FLEXIBLE METAL CONDUIT MAY ONLY BE USED FOR FINAL CONNECTION TO MOTORS AND LIGHTING FIXTURES ABOVE SUSPENDED CEILINGS.

#### LINGS, CONNECTORS AND FITTINGS

USE STANDARD STEEL ITEMS TO PROPERLY ATTACH CONDUITS, OUTLET BOXES, PULL BOXES, CABINETS, ETC., TO PROVIDE A COMPLETE RACEWAY SYSTEM. USE COMPRESSION OR SET SCREWS TYPE FITTINGS. ALL CONNECTORS SHALL HAVE INSULATED THROATS; INDENTATION TYPE, DIECAST, AND PUSH-ON TYPE FITTINGS ARE NOT ACCEPTABLE. BUSHING FOR RIGID H.W. CONDUIT SHALL BE REINFORCED INSULATED TYPE USED WITH DOUBLE LOCKNUTS.

#### T BOXES

- PROVIDE OUTLET BOXES BY APPLETON, STEEL CITY, OR EQUAL AS REQUIRED TO ACCOMMODATE THE DEVICE INDICATED BY SYMBOL ON THE DRAWINGS, SIZED IN ACCORDANCE WITH CODE, WITH THE FOLLOWING MINIMUM REQUIREMENTS. OUTLET BOXES SHALL BE DIE FORMED, GALVANIZED AND SECURELY FASTENED IN PLACE PLUMB AND LEVEL WITH ADJACENT CONSTRUCTION NOT DEPENDENT UPON CONDUIT FOR SUPPORT.
- MULTI-GANG DIE FORMED BOXES SHALL BE PROVIDED FOR ALL DEVICES

#### BOXES AND JUNCTION BOXES

PROVIDE AS REQUIRED BY CODE, OF CODE GAUGE STEEL IN SIZES AS REQUIRED BY THE CODE. COVERS SHALL BE OF THE SAME MATERIAL FASTENED WITH BRASS MACHINE SCREWS. BOXES AND COVERS SHALL HAVE GALVANIZED FINISH AND THEY SHALL BE SECURELY FASTENED TO STRUCTURAL MEMBERS.

#### UCTORS

- CONDUCTORS SHALL BE NEW SOFT DRAWN COPPER. NO. 8 AND LARGER SHALL BE STRANDED; NO. 12 SHALL BE MINIMUM SIZE UNLESS OTHERWISE INDICATED, WITH 600 VOLT INSULATION, COLOR-CODED AS REQUIRED BY CODE. WIRE MUST BE DELIVERED TO JOB SITE IN ORIGINAL CARTONS.
- WIRE AND CABLE FOR GENERAL INTERIOR USE SHALL HAVE 600 VOLT INSULATION. SIZES SMALLER THAN NO. 8 SHALL COMPLY WITH CODE FOR TYPE THHN/THWN. SIZE NO. 8 AND LARGER SHALL COMPLY WITH CODE FOR TYPE THW.

#### JOINTS, SPLICES AND CONNECTORS

BRANCH LIGHTING CIRCUITS NO. 10 AND SMALLER SHALL BE SCOTCHLOCK TYPE H SPRING COMPRESSION CONNECTOR AS MANUFACTURED BY MINNESOTA MINING AND MANUFACTURING CO. OR PIGGY PIGTAILS AS MANUFACTURED BY THOMAS AND BETTS MANUFACTURING CO.

- 30.2. FEEDER AND POWER WIRING: MECHANICAL TYPE LUGS AND CONNECTORS ON SIZES NO. 8 AND LARGER. 30.3. INSULATION: USE ONE HALF-LAPPED OKONITE RUBBER TAPE OR SCOTCH #33 AND
- COMPLY WITH ALL CODE REQUIREMENTS.

#### 31. ELECTRICAL SERVICE

- 31.1. PROVIDE (2) NEW ELECTRICAL SERVICE AT 120/208V, 3 PHASE, 4 WIRE AS INDICATED ON CONSTRUCTION DOCUMENTS.
- COORDINATE ALL ASPECTS OF THE SERVICE WITH THE ELECTRIC UTILITY AND 31.2 COMPLY WITH ALL THEIR REQUIREMENTS.
- 31.3. COST OF SERVICE BY OWNER.

#### 32. GROUNDING

- 32.1. COMPLETE RACEWAY SYSTEM SHALL BE GROUNDED SO GROUND WILL BE ELECTRICALLY CONTINUOUS FROM SOURCE TO ALL OUTLET BOXES AND EQUIPMENT
- PROVIDE BONDING CONDUCTORS AS REQUIRED TO SECURELY GROUND ALL 32.2. ELECTRICAL EQUIPMENT ENCLOSURES, INCLUDING LIGHTING FIXTURES IF THEY HAVE METALLIC HOUSING AND ARE CORD CONNECTED.
- FLEXIBLE METAL CONDUIT MUST BE JUMPERED WITH A GREEN GROUNDING 32.3. CONDUCTOR.
- 32.4. GROUND SERVICE PER CODE.

#### 33. BRANCH CIRCUIT WIRING

- SEE PLANS FOR GENERAL ARRANGEMENT OF CIRCUITS, CONDUIT RUNS, AND 33.1.
- RATINGS OF BRANCH CIRCUITS AND SPECIAL CIRCUITS. PROVIDE EVERYTHING NECESSARY TO COMPLY WITH THE GENERAL SCHEME 33.2.
- SHOWN, INCLUDING ALL TYPES OF CONTROL. 33.3. CIRCUIT NUMBERS AS SHOWN ON PLANS ARE FOR CONTRACTOR TO PLAN HIS WIRING AND FOR ESTIMATING PURPOSES. THESE NUMBERS ARE NOT NECESSARILY CONSECUTIVE NUMBERS OF THE PANELBOARD BREAKERS. BALANCED LOAD ON BUS IS TO BE THE DETERMINING FACTOR IN ARRANGEMENT OF CIRCUITS. BALANCE LOADING TO WITHIN 7 1/2%.
- 33.4. MINIMUM SIZE OF LIGHTING SYSTEM BRANCH CIRCUIT CONDUCTORS TO BE #12 AWG.
- 33.5. CONDUCTORS TERMINATING AT WIRED OUTLETS SHALL EXTEND AT LEAST EIGHT
- (8) INCHES BEYOND OUTLET BOX CONDUIT FITTING. 33.6. 120 VOLT CIRCUIT HOME RUNS GREATER THAN 100 FEET IN LENGTH SHALL HAVE #10 AWG MINIMUM SIZE BETWEEN PANEL AND FIRST RECEPTACLE OR FIXTURE
- OUTLET. 33.7. CIRCUIT BREAKERS:
- PANEL-MOUNTED CIRCUIT BREAKERS SHALL BE SINGLE-POLE AND 33.7.1. MULTI-POLE COMMON TRIP, QUICK-MAKE AND QUICK-BREAK OVER CENTER TOGGLE TYPE SWITCHING MECHANISM ARRANGED FOR MANUAL AND AUTOMATIC OPERATION WITH THERMAL MAGNETIC TRIP ELEMENT FREE FROM HANDLE WITH AMPERE RATING AND BREAKER POSITIONS, I.E., ON, OFF, AND TRIP CLEARLY VISIBLE, MINIMUM 10,000 A,I,C, OR AS OTHERWISE INDICATED ON DRAWINGS OR REQUIRED TO MEET THE MAXIMUM FAULT CURRENT WHERE INSTALLED IN THE ELECTRICAL SYSTEM. PLUG-ON BREAKERS SHALL BE ACCEPTABLE.
- 33.7.2 CIRCUIT BREAKERS SHALL BE U.L. LISTED AND SHALL CONFORM WITH THE LATEST APPLICABLE NEMA STANDARDS.
- 33.8. CIRCUIT DIRECTORIES: FURNISH AND INSTALL IN DIRECTORY FRAME ON INSIDE OF DOOR OF EACH PANEL CABINET A TYPEWRITTEN DIRECTORY IDENTIFYING EACH CIRCUIT.

#### 34. DISCONNECT SWITCHES

- PROVIDE HEAVY DUTY FUSIBLE TYPE DISCONNECT SWITCHES OF TYPES 34.1.
- SCHEDULES AT LOCATIONS SHOWN ON THE DRAWINGS. IN ADDITION, PROVIDE OTHER DISCONNECT SWITCHES AS NECESSARY AND 34.2.
- REQUIRED WITH POLES AND VOLTAGE RATINGS AS REQUIRED FOR THE APPLICATION.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY SWITCH OPERATED TYPE WITH 34.3. COVER INTERLOCK AND ENCLOSED ARC CHAMBER, QUICK-MAKE AND QUICK-BREAK AND PROVISION FOR PADLOCKING IN EITHER THE OPEN OR CLOSED POSITION. ALL HEAVY DUTY, SAFETY SWITCHES 30-600A, SHALL BE PROVIDED WITH CLASS R REJECTION STYLE FUSE CLIPS. THE COMBINATION RATING OF THE HEAVY DUTY SWITCH AND R FUSE SHALL BE 200,000 SYMMETRICAL AMPS AND LABELED AS SUCH. APPROVED MANUFACTURERS: SQUARE D AND EATON/CUTLER-HAMMER.
- SEE "MOTOR WIRING" OF THESE SPECIFICATIONS AS TO REQUIREMENTS 34.4. PERTAINING TO MOTOR DISCONNECT SWITCHES AND FURNISH AND INSTALL SAME IN ACCORDANCE WITH REQUIREMENTS THEREIN.

#### 35. LIGHTING FIXTURES, LAMPS AND BALLASTS

- 35.1. GENERAL:
- 35.1.1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURES AS SHOWN ON THE DRAWINGS.
- 35.1.2. THE APPROXIMATE LOCATION OF LIGHTING FIXTURES IS SHOWN ON THE DRAWINGS. THE EXACT LOCATION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- THE FIXTURE TYPES THAT SHALL BE INSTALLED ARE DEPICTED ON THE 35.1.3. DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL FURTHER EXAMINE ALL CONSTRUCTION AND SUPPLY ALL REQUIRED ACCESSORIES TO HANG THE FIXTURES.
- 35.1.4. THE CONTRACTOR SHALL VERIFY CEILING TYPES AND PROVIDE COMPATIBLE FIXTURES. CONFIRM LOCATION WITH ARCHITECTURAL REFLECTED CEILING
- 35.1.5. ALL FIXTURES IN LAY-IN CEILING SHALL RECEIVE THEIR FINAL CONNECTION VIA A 6'-0" LENGTH OF FLEXIBLE METALLIC CONDUIT TO PERMIT RELOCATION.
- 35.2. ALL OUTDOOR DRIVERS SHALL BE DESIGNED FOR OPERATION DOWN TO MINUS 20 DEG. F.

#### 36. IDENTIFICATION

- 36.1. GENERAL: 36.1.1. MATERIALS AND EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE CLEARLY IDENTIFIED AS LISTED BELOW.
- 36.1.2. LOCATE IDENTIFICATION CONSPICUOUSLY.
- TERMINOLOGY IS TO BE APPROVED BY ARCHITECT. 36.1.3
- SEE PLANS FOR ANY ADDITIONAL ITEMS TO BE IDENTIFIED. 36.1.4. LOADS SUCH AS MOTORS SHALL BE DESCRIBED BY FUNCTION RATHER THAN 36.1.5.
- BY THE SYSTEM OR BY ARBITRARY NUMBER AS SHOWN ON ELECTRICAL PLANS
- 36.1.6. USE ABBREVIATIONS SPARINGLY
- 36.2. LAMINATED BAKELITE PLATES: ENGRAVED PLASTIC NAMEPLATE SHALL BE SECURELY FASTENED TO THE FOLLOWING EQUIPMENT. SIZE 1" X 4" WITH 3/8" HIGH LETTERS; UNLESS SPACE AVAILABLE DICTATES DIFFERENTLY.
- EACH PANELBOARD, CONTACTOR, TIME SWITCH, STARTER OR DISCONNECT 36.2.1.
- SWITCH. LOCATE ON INSIDE COVER OF PANELS. 37.2.1. EACH FEEDER AT ALL ACCESSIBLE LOCATIONS.
- 37.2.2 EACH END OF EMPTY CONDUIT RUNS TO INDICATE THE INTENDED USE OF THE CONDUIT AND THE LOCATION OF OPPOSITE END. USE ROOM NUMBERS THAT ARE PERMANENTLY ASSIGNED.
- TYPEWRITTEN DIRECTORY: EACH PANELBOARD SHALL BE PROVIDED WITH A 37.3 TYPEWRITTEN DIRECTORY ATTACHED TO THE INSIDE OF PANEL DOOR AND COVERED WITH CLEAR PLASTIC INDICATING LOAD SERVED AND ROOMS SERVED BY EACH PROTECTIVE DEVICE IN THE RESPECTIVE PANEL.

	ITEM.
37.5. CONI	DUCTOR IDENTIFICATION:
37.5.1	IDENTIFY EACH CONDUCTOR AT EACH
	SPLICE POINT WITH PERMANENTLY A
37.5.2.	THIS IDENTIFICATION SHALL INCLUDE
	CIRCUIT, OR ANY OTHER APPROPRIAT
27 5 2	EXPEDITE FUTURE TRACING AND TRO
37.3.3.	OF THE DEVICE COVERPLATE USING A
	DOES NOT SHOW THROUGH THE FRO
	1050
3. WIRING DEV 38.1 GENI	ICES FRAL:
38.1.1	AT EACH LOCATION SHOWN ON THE D
	WIRING DEVICE AS INDICATED BY SYM
38.1.2.	UNLESS OTHERWISE INDICATED, ALL
	AND SEYMOUR, EAGLE, LEVITON, BRY
	CATALOG NUMBERS ARE USED HERE
	GRADE IVORY DEVICES SHOWN - PR
	ARCHITECT.
38.1.3.	WRAP WIRING DEVICES WITH INSULA
20.2 1.000	
38.2. LOUF	IN GENERAL
38.2.1.1	SINGLE POLE - PASS AND SEYM
38.2.1.2.	DOUBLE POLE - PASS AND SEYM
38.2.1.3.	THREE WAY - PASS AND SEYMO
38.2.1.4. 38.2.1.5	
38.2.1.6.	ALL LOCAL SWITCHES CONTROL
	LOCATIONS OTHER THAN THE R
	INDICATE THE ENERGIZED POSI
	QUESTION. IN ADDITION, SWITC
00.04.7	IDENTIFY LIGHTS OR EQUIPMEN
38.2.1.7.	"WALL SWITCH OCCUPANCY SEN "WSX-PDT-LT-SSW" WITH PHOTO
38.2.1.8.	NETWORK CEILING OCCUPANCY/DA
	SENSOR "nCM-PDT-10-RJB-ADCX-AF SWITCH "nPODMA-4P-I T-SSW": POV
	EACH ROOM SHALL HAVE A POWER
38.3. RECE CHAF	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF
38.3. RECE CHAF ONE	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S
38.3. RECE CHAF ONE NOT ARCF	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT.
38.3. RECE CHAF ONE NOT ARCF 38.3.1.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL:
38.3. RECE CHAF ONE NOT 38.3.1. 38.3.1.1.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX -
38.3. RECE CHAF ONE NOT 38.3.1. 38.3.1.1. 38.3.1.2. 38.3.1.2. 38.3.1.3	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX - 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0
38.3. RECE CHAF ONE NOT. ARCF 38.3.1.1. 38.3.1.2. 38.3.1.3.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0 SEYMOUR PT2097TRW
38.3. RECE CHAF ONE NOT 38.3.1. 38.3.1.1. 38.3.1.2. 38.3.1.3. 38.3.1.4.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0 SEYMOUR PT2097TRW 20 AMPERE, 125 VOLT DUPLEX, 0
38.3. RECE CHAF ONE NOT 38.3.1.1 38.3.1.2. 38.3.1.2. 38.3.1.3. 38.3.1.4.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0 SEYMOUR PT2097TRW 20 AMPERE, 125 VOLT DUPLEX, 0 RESISTANCE - PASS AND SEYMO PROVIDE WEATHER RESISTANT GELB
38.3. RECE CHAF ONE NOT 38.3.1. 38.3.1.1. 38.3.1.2. 38.3.1.3. 38.3.1.4. 38.3.2.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0 SEYMOUR PT2097TRW 20 AMPERE, 125 VOLT DUPLEX, 0 RESISTANCE - PASS AND SEYMO PROVIDE WEATHER RESISTANT GFI R ON DRAWINGS MOUNTED WITH CAST
38.3. RECE CHAF ONE NOT 38.3.1. 38.3.1.1. 38.3.1.2. 38.3.1.3. 38.3.1.4. 38.3.2.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0 SEYMOUR PT2097TRW 20 AMPERE, 125 VOLT DUPLEX, 0 RESISTANCE - PASS AND SEYMO PROVIDE WEATHER RESISTANT GFI R ON DRAWINGS MOUNTED WITH CAST "IN-USE". NON-METALLIC COVERS NO
38.3. RECE CHAF ONE NOT 38.3.1.1 38.3.1.2. 38.3.1.2. 38.3.1.3. 38.3.1.4. 38.3.2.	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX - 20 AMPERE, 125 VOLT DUPLEX, 0 SEYMOUR PT2097TRW 20 AMPERE, 125 VOLT DUPLEX, 0 RESISTANCE - PASS AND SEYMO PROVIDE WEATHER RESISTANT GFI R ON DRAWINGS MOUNTED WITH CAST "IN-USE". NON-METALLIC COVERS NO
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38.3. RECE CHAF ONE NOT 38.3.1. 38.3.1.1. 38.3.1.2. 38.3.1.3. 38.3.1.4. 38.3.2. 38.4. 38.4.1. 38.4.2. 28.4.2	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INF HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX. 20 AMPERE, 125
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<ul> <li>38.3. RECE CHAF ONE NOT ARCF</li> <li>38.3.1.1. 38.3.1.2. 38.3.1.3.</li> <li>38.3.1.4.</li> <li>38.3.2.</li> <li>38.4. 38.4.1.</li> <li>38.4.2. 38.4.3.</li> </ul>	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INF HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX. 20 AMPERE, 125 VOLT DUPLEX. 30 AMPERE, 125
<ul> <li>38.3. RECE CHAF ONE NOT 38.3.1.</li> <li>38.3.1.1. 38.3.1.2. 38.3.1.2. 38.3.1.3.</li> <li>38.3.1.4.</li> <li>38.3.2.</li> <li>38.4. COVE 38.4.1.</li> <li>38.4.2. 38.4.3.</li> <li>LOCATIONS</li> </ul>	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX - 20 AMPERE, 125 VOLT DUPLEX, 0 20 AMPERE, 125 VOLT DUPLEX, 0 SEYMOUR PT2097TRW 20 AMPERE, 125 VOLT DUPLEX, 0 RESISTANCE - PASS AND SEYMO PROVIDE WEATHER RESISTANT GFI R ON DRAWINGS MOUNTED WITH CAST "IN-USE". NON-METALLIC COVERS NO ER PLATES: COVER PLATES SHALL BE SMOOTH TH SELECTED BY ARCHITECT. SEE IDENTIFICATION REQUIREMENTS SURFACE MOUNTED OUTLET BOXES - WITH ROUNDED EDGES DESIGNED TO OF OUTLETS AND WIRING DEVICES
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<ul> <li>38.3. RECE CHAF ONE NOT ARCF</li> <li>38.3.1.1 38.3.1.2 38.3.1.2 38.3.1.3 38.3.1.4.</li> <li>38.3.1.4.</li> <li>38.3.2.</li> <li>38.4. COVE 38.4.1.</li> <li>38.4.2.</li> <li>38.4.2.</li> <li>38.4.3.</li> <li>LOCATIONS</li> <li>39.1.1. WIRII 39.1.1.</li> <li>39.1.2.</li> <li>39.1.3.1.</li> <li>39.1.3.1.</li> <li>39.1.3.2.</li> </ul>	EPTACLES: ALL RECEPTACLES SHALL E RACTERISTICS OF THE EQUIPMENT SEF ADDITIONAL POLE FOR GROUNDING. S ACCEPTABLE. IVORY DEVICES ARE INE HITECT. IN GENERAL: 20 AMPERE, 125 VOLT DUPLEX. 20 AMPERE, 125
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37.4. SWITCH STATION:

37.4.1.

37.4.2

#### 40. RECORD DOCUMENTS

40.1. DRAWINGS THROUGHOUT CONSTRUCTION TO DOCUMENT MODIFICATIONS MADE TO THE DESIGN INTENT REFLECTING INSTALLED CONDITIONS. CONTRACTOR SHALL PROVIDE COLOR COPIES TO SCALE OF AS-BUILT DRAWINGS 40.2. WITH DIGITAL RECORD DRAWINGS TO THE ARCHITECT AND ENGINEER AT

THE DRAWINGS

AUTOCAD 2011 FILE FORMAT. CONTRACTOR SHALL ASSEMBLE DOCUMENTATION, INCLUDING BUT NOT LIMITED 40.3. TO, APPROVED SUBMITTALS, MAINTENANCE MANUALS, INSTALLATION MANUALS, WARRANTIES, AND WIRING DIAGRAMS FOR THE SYSTEMS INSTALLED TO COMPILE AN OPERATIONS AND MAINTENANCE MANUAL. THE OPERATIONS AND MAINTENANCE MANUAL SHALL BE ASSEMBLED IN A THREE-RING HARD COVER BINDER, TABBED BY SYSTEM FOR EASY USE. CONTRACTOR SHALL PROVIDE ONE COPY TO THE OWNER, ONE COPY TO THE ARCHITECT, AND ONE COPY TO THE

OR DIGITAL COPY.

#### 41. TRAINING

41.1. CONTRACTOR SHALL PROVIDE TRAINING ON THE OPERATION AND MAINTENANCE REQUIRED OF EACH SYSTEM INSTALLED. TRAINING PROVIDED SHALL NOT BE LESS THAN FOUR HOURS FOR EACH SYSTEM, AND SHALL BE SCHEDULED AFTER SUBSTANTIAL COMPLETION. INDIVIDUAL RESPONSIBLE FOR TRAINING SHALL ALLOW FOR A MINIMUM OF TWO WEEKS NOTICE AND SHALL PROVIDE AN AGENDA.

ALL SWITCHES SHALL BE ENGRAVED INDICATING CONTROLLED ITEM. ALL REMOTE SWITCHES SHALL BE ENGRAVED INDICATING CONTROLLED

> H WIRING DEVICE, CONNECTOR OR TTACHED WRAP-AROUND ADHESIVE ADY CO.

E BRANCH CIRCUIT NUMBER, CONTROL TE NUMBER OR LETTERING THAT WILL DUBLE SHOOTING. BER SERVING THE DEVICE ON THE BACK

A PERMANENT MARKING SYSTEM THAT NT OF THE PLATE.

DRAWINGS. FURNISH AND INSTALL MBOL ON THE DRAWINGS. WIRING DEVICES SHALL BE BY THE OW-HART-HEGEMAN, HUBBELL, PASS YANT OR SLATER. PASS AND SEYMOUR IN TO DESIGNATE TYPE OF DEVICE HALL BE FEDERAL SPECIFICATION ROVIDE COLOR SELECTED BY

TING TAPE BEFORE INSTALLING.

IOUR 20AC 1-I MOUR 20AC 2-I DUR 20AC 3-I UR 20AC 4-I

YMBOL ON THE DRAWINGS. LLING LIGHTS OR EQUIPMENT AT ROOM IN WHICH THE SWITCH IS WITH RED NEON PILOT LAMP TO ITION OF THE LIGHTS OR EQUIPMENT IN CH PLATE SHALL BE ENGRAVED TO IT CONTROLLED.

VSOR SHALL BE nLIGHT O SENSOR OR EQUAL.

AYLIGHT SENSOR SYSTEM SHALL BE nLIGHT R(WHERE INDICATED ON DRAWINGS)-LT" WER PACK "nPP16-D-EFP-LT" OR EQUAL. R PACK..

BE RATED FOR CAPACITY AND RVICED AND SHALL BE COMPLETE WIT SELF-GROUNDING RECEPTACLES ARE DICATED. VERIFY COLOR DESIRED WITH

PASS AND SEYMOUR HBL 5352 GFI - PASS AND SEYMOUR GFR 5352IL GFI, TAMPER RESISTANCE - PASS AND

GFI, TAMPER RESISTANCE, WEATHER OUR 2097TRWRW RECEPTACLES AS INDICATED BY SYMBOL GASKETED WEATHERPROOF WHILE T ACCEPTABLE.

HERMOSET PLASTIC IN COLOR AS

S OF THESE SPECIFICATIONS. - GALVANIZED STEEL SURFACE COVER D FIT FLUSH WITH OUTLET BOX.

RING DEVICES ARE INDICATED ON THE S SHALL BE DETERMINED IN UTLETS" OF THESE SPECIFICATIONS

PMENT PLANS, EQUIPMENT SHOP ND OTHER DETAIL OR DIMENSIONAL WITH THE ARCHITECT BEFORE R WIRING DEVICES OR BEFORE NDENT UPON THIS INFORMATION. BE LOCATED AS FOLLOWS:

NERALLY BE LOCATED 18" ABOVE THE OM OF THE BOX AND 6" ABOVE SURFACE ABLES WHERE SAME ABUTS WALL AND 4" INTERS ARE SO EQUIPPED.

LES SHALL BE LOCATED AS REQUIRED

48" ABOVE FINISHED FLOOR TO THE E OF DOOR OPENING WITH EDGE OF OM DOOR FRAME, EXCEPT AS NOTED ON

CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AS-BUILT RED-LINE

SUBSTANTIAL COMPLETION. DIGITAL RECORD DRAWINGS SHALL BE PROVIDED IN

ENGINEER. IT IS THE OPTION OF EACH RECIPIENT TO BE PROVIDED HARD COPY

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



Drawn by	Checked by

#### –Revisions –

	No.	Date	Description
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## PLUMBING FIXTURE SCHEDULE

MARK		MODEL	DESCRIPTION		WSFU		D
MARN	WANUFACTURER	WODEL	DESCRIPTION	HW	CW	TOTAL	VA
DF-1	ELKAY	LK4409BFGRY	OUTDOOR, WALL MOUNTED BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, HEAVY DUTY, STAINLESS STEEL, VANDAL RESISTANT, PUSH BUTTON ACTIVATED, GRAY FINISH.	-	0.25	0.25	(
FD-1	ZURN	Z415S	SQUARE CAST IRON FLOOR DRAIN, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. POLISHED NICKLE BRONZE, HEEL-PROOF TOP, LIGHT DUTY STRAINER.	-	-	-	2
HB-1	WOODFORD	B65	HOSE BIBB IN CONCEALED, LOCKABLE BOX, NON-FREEZE, LOOSE KEY, AUTOMATIC DRAINING WITH ANTI- SIPHON VACUUM BREAKER, CHROME FINISH	-	4.0	4.0	
L-1	KOHLER	K-2031	WALL HUNG, WHITE, VITREOUS CHINA, ADA LAVATORY WITH OVERFLOW AND BACKSPLASH. OVERALL DIMENSIONS: 20-3/4"X18-1/4"X12-7/8". FAUCET: CHICAGO FAUCETS 116.606.AB.1 BATTERY POWERED, SENSOR ACTIVATED, SINGLE HOLE WITH 0.5 GPM NON-AERATING LAMINAR FLOW, VANDAL PROOF. PROVIDE WITH KOHLER K-7129-A GRID DRAIN, P-TRAP, AND LOOSE KEY STOPS. PROVIDE "HANDY-SHIELD MAXX" INSULATION ON P-TRAP, WATER VALVES AND EXPOSED SUPPLY PIPING.	0.5	0.5	1.0	1
MB-1	MUSTEE	63M	FLOOR MOUNTED, MOLDED STONE MOP BASIN WITH OVERALL DIMENSIONS: 24"X24"X10". FAUCET: MUSTEE 63.300A HEAVY DUTY, CHROME PLATED BRASS WITH TOP REINFORCING BAR AND PAIL HOOK. PROVIDE WITH HOSE CONNECTION VACUUM BREAKER EQUAL TO WATTS 8FR. PROVIDE WITH MUSTEE 65.700 HOSE AND HOSE HOLDER AND MUSTEE 65.600 MOP HANGER.	2.0	2.0	3.0	3
UR-1	KOHLER	K-4991-ET	VITREOUS CHINA WALL-MOUNT ADA WASHOUT URINAL WITH 3/4" TOP SPUD. OVERALL DIMENSIONS: 26 7/8" X 18" X 14 1/8". FLUSHOMETER: SLOAN G2 8186 BATTERY POWERED, SENSOR ACTIVATED, 0.5 GPF. FIXTURE SUPPORT: JAY R. SMITH 0637.	-	2.0	2.0	2
WC-1	KOHLER	K-96057	VITREOUS CHINA, FLOOR MOUNT, SIPHON JET, ADA WATER CLOSET WITH 1-1/2" TOP SPUD. OVERALL DIMENSIONS: 21-7/8"X14-5/8"X16-5/8". FLUSHOMETER: SLOAN G2 8111 BATTERY POWERED, SENSOR ACTIVATED, 1.28 GPF.	-	6.5	6.5	6

PLUMBING FIXTURES AND EQUIPMENT. PROVIDE ALL NECESSARY TRANSFORMERS TO ACCOMMODATE POWER SUPPLIES INDICATED ON ELECTRICAL DRAWINGS. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR POWER SUPPLY PROVISIONS BEYOND WHAT IS INDICATED ON THE ELECTRICAL DRAWINGS.

PUMPS										
MANUFACT	MODEL	TYPE	SERVICE	GPM MIN.	HEAD FT WC	Motor (Watts)	RPM	VOLTS	PHASE	
BELL & GOSSETT	NBF-12	INLINE	BRONZE	2	10	55	2,800	120	1	
WITH STARTER & DISCO	NNECT.									
	MANUFACT BELL & GOSSETT ITH STARTER & DISCO	MANUFACT     MODEL       BELL & GOSSETT     NBF-12       ITH STARTER & DISCONNECT.	MANUFACT     MODEL     TYPE       BELL & GOSSETT     NBF-12     INLINE       ITH STARTER & DISCONNECT.	MANUFACT     MODEL     TYPE     SERVICE       BELL & GOSSETT     NBF-12     INLINE     BRONZE       ITH STARTER & DISCONNECT.	MANUFACT       MODEL       TYPE       SERVICE       GPM MIN.         BELL & GOSSETT       NBF-12       INLINE       BRONZE       2         ITH STARTER & DISCONNECT.	MANUFACT       MODEL       TYPE       SERVICE       GPM MIN.       HEAD FT WC         BELL & GOSSETT       NBF-12       INLINE       BRONZE       2       10         ITH STARTER & DISCONNECT.	MANUFACTMODELTYPESERVICEGPM MIN.HEAD FT WCMOTOR (WATTS)BELL & GOSSETTNBF-12INLINEBRONZE21055ITH STARTER & DISCONNECT.	MANUFACTMODELTYPESERVICEGPM MIN.HEAD FT WCMOTOR (WATTS)RPMBELL & GOSSETTNBF-12INLINEBRONZE210552,800ITH STARTER & DISCONNECT.	MANUFACTMODELTYPESERVICEGPM MIN.HEAD FT WCMOTOR (WATTS)RPMVOLTSBELL & GOSSETTNBF-12INLINEBRONZE210552,800120ITH STARTER & DISCONNECT.	MANUFACTMODELTYPESERVICEGPM MIN.HEAD FT WCMOTOR (WATTS)RPMVOLTSPHASEBELL & GOSSETTNBF-12INLINEBRONZE210552,8001201ITH STARTER & DISCONNECT.

2. PROVIDE WITH AQUASTAT & TIMER.

			ELECT	RIC	WAT	'ER H	IEATE	ER			
MADIZ	MADIC MANUFACTURED MODEL GALLON DATA HEIGHT DIAMETER										
MARK	MANUFACIURER	MODEL	CAPACITY	ĸw	VOLT	PHASE	HEIGHT	DIAMETER			
EWH-1	A.O. SMITH	DSE-20A-9	20	9	240	1	31.75"	22"			
1	INCLUDE TEMPERATURE	CONTROL, PRE	SSURE RELIEF VAL	E, DRAIN V	ALVE						
2	SINGLE ELEMENT WATER	RHEATER									
3	PROVIDE WITH EXPANSION TANK EQUAL TO B&G PTA-5										



		ABBF	REVIATIONS	PLUMBI	NG PIPING LEGEND		
TOTAL	DFU	AD AFF	AREA DRAIN ABOVE FINISHED FLOOR		NEW PLUMING EQUIPMENT	ю	BALL VALVE
0.25		AP	ACCESS PANEL		EXISTING PLUMBING COMPONENT	——II-—	BUTTERFLY VALVE
0.20	0.0	BOP	BOTTOM OF PIPE		DEMOLISHED PLUMBING COMPONENT	— <b>N</b> —	CHECK VALVE
-	4.0	CA	COMBUSTION AIR		PLUMBING EQUIPMENT SERVICE AREA	<u>—-ъ</u>	CIRCUIT SETTER
4.0	_	CO	CLEANOUT	P##	KEY NOTE	₽	2-WAY ELECTRONIC CONTROL V
1.0		DN	DOWN	DCW		—— <b>&amp;</b> ——	3-WAY ELECTRONIC CONTROL V
1.0	1.0	ET-*	EXPANSION TANK	X-DCW		⊠	GATE VALVE
		EVVC-"	ELECTRIC WATER COOLER	<u>D</u> HW		<b>%</b>	HOSEBIBB/DRAIN VALVE
		FCO FD-*	FLOOR CLEANOUT FLOOR DRAIN	X-DHW		k	OS&Y VALVE
3.0	3.0	GI-*	GREASE INTERCEPTOR			!⊽I	PLUG VALVE
0.0	5.0	HB-*	HOSE BIBB	X-DHWR		¥	
		HWRP-*	HOT WATER RECIRCULATION PUMP	DTW		Þ	VALVE
20	20	IWH-*	INSTANTANEOUS WATER HEATER	X-DTW		—— <b>k</b> i——	PRESSURE REGULATING VALVE
		L-*	LAVATORY	FPCH	NEW FIRE PROTECTION - CHEMICAL PIPE	₽	TRIPLE DUTY VALVE
65	6.0	MB-*	MOP BASIN	FPD	NEW FIRE PROTECTION - DRY PIPE	<del>``````</del>	AIR VENT
0.0	0.0	NC	NORMALLY CLOSED	FPW	NEW FIRE PROTECTION - WET PIPE		FLEX PIPE
		NO	NORMALLY OPEN	X-FP			FLOOR DRAIN / ROOF DRAIN
6E (24V) WIRIN E RESPONSIBL	g for all E for any	OD-*	OVERFLOW DRAIN	IRR		<u> </u>	P-T PLUG
		RD-*	ROOF DRAIN	X-IRR		<b>\$</b>	PIPE BREAK
		S-*	SINK	SS	NEW SANITARY SEWER	E	PIPE CAPPED END
		SH-* SP-*	SHOWER SUMP PUMP	X-SS	EXISTING SANITARY SEWER	ı <b> </b>	PIPE CLEANOUT
		SS-* ST-*	SERVICE SINK STORAGE TANK	V	NEW SANITARY VENT	<del>- ci - isi-</del>	PIPE ELBOW/TEE DOWN
		STP-*	SOLAR THERMAL PANEL	<u>X-V</u>			PIPE ELBOW/TEE UP
KEMIAKKS		UR-*	URINAL	STOF	NEW STORM OVERFLOW	<b></b>	CONNECT TO EXISTING
1,2		VFD	VARIABLE FREQUENCY DRIVE	X-STOF	EXISTING STORM OVERFLOW	<b></b>	PUMP
		WC-*	WATER CLOSET	SD	NEW STORM SEWER	—— <del>N</del> ———	REDUCER
		WCO WH-*	WALL CLEANOUT WATER HEATER	X-SD	EXISTING STORM SEWER	— <del>                                    </del>	STRAINER
		WWHP-*	WATER-TO-WATER HEAT PUMP		DEMOLISHED PIPING (ALL SYSTEMS)		UNION
		X-*	EXISTING	EQUIPMENT 7		<b>P</b>	FLOW GAUGE
MARKS		YCO	YARD CLEANOUT	WH	PLUMBING EQUIPMENT TAG	FS	FLOW SENSOR
4.0					ELECTRICALLY POWERED	<u> </u>	PRESSURE GAUGE
1,2				TAG		PS	
				EQUIPMENT 7		 Q	PRESSURE SENSUR
				, wc	PLUMBING EQUIPMENT TAG	, Тз	IEMPERATURE GAUGE
					NOT ELECTRICALLY POWERED		TEMPERATURE SENSOR

Floor 🚽 TAG -

## WATER CALCULATION WORKSHEET

1	Demand of building in water su	oply fixture units:						
1a	Demand of building in WSFU o	onverted to Gallons per Minute.						
2	Elevation difference from main	Elevation difference from main or external pressure tank to building control valve:						
3	Size of water meter (if applicable	e):						
4	Developed length from main or	external pressure tank to building control valve						
5	Low pressure at main in street	or external pressure tank:						
C	CALCULATE WATER SERVICE	PRESSURE LOSS						
6	Low pressure at main in street	or external pressure tank. (value of#5 above)						
7	Determine pressure loss due to	friction in 4 inch diameter water service.						
	Water service piping is	COPPER						
	Pressure loss per 100 ft =	.3 x 1.75						
		Subto						
8	Determine pressure loss or gai	n due to elevation (multiply the value of # 2 above by 0.434):						
9	Available pressure after the bld	i. control valve:						
C	CALCULATE THE PRESSURE	AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")						
		A = [B-(C+D+E+F+G)]/H x 100						
В	Available pressure after the bld	. control valve. (from #9 above):						
С	Pressure loss of water meter (v	hen meter is required)						
D	Pressure required at controlling	fixture						
	(Controlling fixture is:	WATER CLOSET )						
E	Difference in elevation between	building control valve and the controlling fixture in feet 1 x 0.434						
F	Pressure loss due to water trea	ment devices and backflow preventors which serve the controlling fixture.						
G	Pressure loss through tankless controlling fixture:	Pressure loss through tankless water heaters, combination boiler / hot water heaters, heat exchangers which serve the controlling fixture:						
Н	Developed length from building	control valve to controlling fixture in feet. 90 x 1.5						
Δ	Pressure available for unifor	m loss (psi/100' of pipe)						

REMARKS

REMARKS

1,2

				Section 3. Item
	GE	NERAL NOTES		
	1. DR/	AWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL		
	REC COI	QUIRED OFFSETS FOR A COMPLETE INSTALLATION. NTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT		
	COI	NNECTIONS AND SHALL MAINTAIN APPROPRIATE		
ROL VALVE	2. ALL STA ANI	WORK SHALL COMPLY WITH APPLICABLE NATIONAL, TE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, D ALL REQUIREMENTS OF THE LOCAL AUTHORITIES	259 South Str WAUKESHA, 1 p: 833-380-61	eet, Suite A WI 53186 80
	HA\ 3 COI	/ING JURISDICTION.		
	TRA	ADES PRIOR TO INSTALLATION.	Project Info.	— 22005 —
	4. THE	E CONTRACTOR SHALL VISIT THE SITE TO DETERMINE E FULL EXTENT OF WORK AND PROJECT CONDITIONS.	Divorsio	ho Park
IRE RELIEE	THE	E OBLIGATIONS OF THE CONTRACTOR OF	Riversic	
			Restroc	oms
	PLI	JMBING SHEET INDEX	New Construc	ction
	NUMBER		600 Labaree	St
IN	P0.1 P1.0	PLUMBING NOTES, LEGEND, AND ABBREVIATIONS PLUMBING UNDERGROUND PLAN PLUMBING FLOOD PLAN	watenown, v	v1
in	P2.0 P3.0	PLUMBING ISOMETRICS		
			-Sheet litle -	
			<b>_</b>	
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124.75 WSFU	•		Drawn by	Checked by
75 GPM 8 FEET	-		KJW	СМН
2				1
175 FEET	-		Revisions	
13 PSI	]		No. Date	
75 PSI			01.23.2024	4 DIA & Permit Set
	-			
0.525				
0.020 I 74.5 PSI				
3.5 PSI	-			
71.0 PSI	]			
	-		·	
71.0 PSI <sup>3</sup> PSI				
<sup>35</sup> PSI			പ്	
	-		∞	
0.4	-		<u>.</u> <u>.</u>	
PSI	-			I
0 PSI	-		Sheet No	]
135 FT			-9(	
24.1 PSI / 100'		<b>ibc</b> engineering		∩ 1 ∣
		services, inc.		<b>U.I</b>
			50	

THIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS.

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





4" SS TO MUNICIPAL SEWER (I.E. 817.33). SEE CIVIL PLANS FOR CONTINUATION.



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



Drawn by	Checked by
KJW	СМН

## Revisions —

	No.	Date	Description
		01.23.2024	Bid & Permit Set
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30	_Sh	eet No. —	

P1.0

FIXTURE CONNECTIONS						
MARK	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"		



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

# **KEY NOTES**

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

Architect

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▶ Project Info. — 22005 —

## Riverside Park Restrooms

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P2.0





FIXTURE CONNECTIONS						
MARK	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"		



HIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS.

DE	SIGN CRITERIA	
1. 2	BUILDING CODE - INTERNATIONAL BUILDING CO	DDE (IBC) 2015 / ASCE7-10
۷.	ROOF	15 PSF
3.	ROOFLIVELOADS	20 PSF
4	FLOOR LIVE LOADS	20101
	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 FL	AT 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	I ON THE COMPONENTS AND CLADDING
	DELEGATED DESIGN CALCULATIONS	BUTART AREAS MAT BE USED BASED ON
7		
7.		П
		10
	SITE CLASS	1.0 D
		В
	Se	0.083 g
	S1	0.045 g
	SPECTRAL RESPONSE COEFFICIENTS	
	SDS	0.089 g
	SD1	0.072 g
	SEISMIC DESIGN CATEGORY	В
	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.	SOIL DESIGN VALUES	
	REFERENCE GEOTECHNICAL REPORT	
	PEPARED BY TERRACON CONSULATANTS, INC	DATED <b>06/23/2002</b>
	SOIL UNIT WEIGHT (¥)	120 PCF
	ALLOWABLE SOIL BEARING PRESSURES	
	VERTICAL (NET)	3,000 PSF
9.	COMPONENT DESIGN	
	WOOD ROOF TRUSSES	
	DEAD	
	TOP CHORD	10.0 PSF
		5.0 PSF
		E 0. 205
	BUTTOM CHORD	5.0 PSF
		SEE NUTE D

L/360 L/240

#### GENERAL REQUIREMENTS

- 1. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO 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 FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT
- INCLUDE INSPECTION OF THE ABOVE ITEMS. GENERAL CONTRACTOR TO DISTRIBUTE ALL SHEETS IN THE SET TO
- SUBCONTRACTORS 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
- SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER CONTRACTOR SHALL VERIFY DIMENSIONS 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. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF
- OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
- DO NOT 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.
- 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.
- . 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

#### **CONCRETE**

CODES:			
ACI 301	SPECIFICATION FOR STRUCTURAL CONCRETE		
ACI MCP	MANUAL OF CONCRETE PRACTICE		
ACI 318	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE		
ACI 318.1	BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLA CONCRETE		
MATERIALS (28 DAY COMPRESSIVE STRENGTH):			

f'c=3,000 PS
f'c=4,000 PS
f'c=5,000 PS
f'c=4,500 PS
f'c=4,000 PS
f'c=4,000 PS
f'c=4,000 PS

- 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.
- 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.
- CONCRETE WHICH WILL BE EXPOSED TO THE WEATHER (INCLUDING FOUNDATION WALLS) SHALL HAVE AIR-ENTRAINING ADMIXTURE AS REQUIRED TO PROVIDE 6% ± 1% AIR ENTRAINMENT.
- . 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. CONCRETE SHALL BE EVALUATED ACCORDING TO METHOD 1 OR METHOD 2 AS DESCRIBED IN ACI 301. THE RESULTS OF THESE ANALYSES SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO ANY WORK.
- 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.
- 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 SHOP DRAWINGS. MAXIMUM POUR LENGTHS OF WALLS TO BE 40'-0" AND A MINIMUM OF 4'-0" AWAY FROM INTERSECTIONS AND CORNERS.
- GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC. . 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 CURRENT VERSION OF ASTM E 1155 AND ACI 302.1. SEE SPECIFICATION FOR FURTHER REQUIREMENTS (F(F) SPECIFIED OVERALL VALUE (SOV) OF 50, MINIMUM LOCALIZED VALUE (MLV) OF 25 AND F(L) SPECIFIED OVERALL VALUE (SOV) OF 33, MINIMUM LOCALIZED VALVE (MLV) OF 17).

LL

#### SPREAD FOUNDATIONS

- 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, AS RECOMMENDED IN GEOTECHNICAL REPORT 3. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR 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 MINIMUM DEPTH OF 4'-0 BELOW ADJACENT FINISH EXTERIOR GRADE.
- 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
- COMPACTION OPERATIONS. BRACING 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.

#### CONCRETE REINFORCING CODES: ACI 315 DETAIL AND DETAILING OF CONCRETE REINFORCEMENT BUILDING CODE REQUIREMENTS FOR REINFORCED ACI 318 CONCRET

	CUNCRETE			
MSP2	CRSI MANUAL OF STA	NDARD PRACTICE		
AWS D1.4	STRUCTURAL WELDIN	IG CODE - REINFORCII	NG STEEL	
WRI	WELDED WIRE FABRIC	C MANUAL OF STANDA	RD PRACTICE	
MATERIALS:				
REINFORCING	BARS	ASTM A615 Gr 60	Fy=60 KSI	

REINFORGING BARS	ASTM A015 Gr 60	FY=00 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.
- THE CONTRACTOR SHALL REFER TO TYPICAL DETAILS SHOWN ON THE CONTRACT DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS.
- 4. WHERE 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 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.

#### PREFABRICATED WOOD TRUSSES

CODES:
--------

	TRUSS PLATE	DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE
	INSTITUTE	CONNECTED WOOD TRUSSES
1.	THE WOOD TRUSS FAB	RICATOR SHALL SUBMIT CALCULATIONS TO THE
	ARCHITECT/ENGINEER	FOR REVIEW PRIOR TO FABRICATION THE

- CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION. 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 TRUSSES SHALL BE AS NOTED ON DRAWINGS.
- 5. DESIGN TRUSS MEMBERS FOR CONCENTRATED LOADS OF SPRINKLER PIPING AND OTHER MECHANICAL LOADS.

**REINFORCED MASONRY** CODES

	CODES.				
-	ACI 530.1/ASCE 6/TMS 602	SPECIFICATION FOR MASONRY STRUCTURES			
	ACI 530/ASCE 5/TMS 402	BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES			

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. FILLING CELLS WITH 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 NOT 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. BRACE ALL MASONRY 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.

#### <u>STRL</u>

UCTURAL WOOD CONSTRUCTION					
CODES:					
NFPA	NATIONAL DESIGN SPECIFICATIONS FOR WOOD				
NFPA	DESIGN VALUES F	OR WOOD CONSTRUC	TION		
AITC	TIMBER CONSTRU SPECIFICATIONS	ICTION MANUAL, PART	II, DESIGN		
APA	US PRODUCT STA AND INDUSTRIAL F	NDARD PS 1-83 FOR CO PLYWOOD	ONSTRUCTION		
AFPA	AMERICAN FORES	ST AND PAPER ASSOCI WOOD CONSTRUCTIO	ATION - MANUAL DN		
MATERIALS:			SPECIES/GRADE		
SAWN LUMBEI WALL STU COLUMNS JOISTS & E	R DS BEAMS	ASTM D1990-96A OR ASTM D245	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 1.8E		
GLUE-LAMINA	TED 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		
PRESERVATIV	E TREATED WOOD	AWPA STD U1 & M4	S. PINE No.2		
FIRE-RETARDA	ANT BER	IBC 2303.2 ASTM E84 CLASS A	S. PINE No.2		
TONGUE & GR	OOVE DECKING	AMERICAN FOREST AND PAPER ASSOCIATION WOOD CONSTRUCTION	Fb=1000 PSI E=1.8 KSI		

ALL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15% PRIOR TO INSTALLATION. MOISTURE CONTENT SHALL BE DETERMINED PER ASTM D4442

DATA 2

- 2. ALL WOOD SHALL BE PROTECTED FROM MOISTURE BEFORE INSTALLATION. ALL WOOD STORED AT THE BUILDING SITE SHALL BE ELEVATED 6" ABOVE THE GROUND AND COVERED WITH PLASTIC TARPAULINS.
- ALL STRUCTURAL WOOD SHALL MEET OR EXCEED ALLOWABLE UNIT
- STRESSES AND/OR GRADE AS REQUIRED BY THE DRAWINGS. JOISTS SHALL BE BRIDGED WITH 1" X 3" CROSS BRIDGING, OR EQUAL, AT 4 INTERVALS NOT EXCEEDING 8' -0" O.C.
- 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.
- 6. ALL JOISTS AND RAFTERS SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS OR JOIST HANGERS.
- 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.
- WOOD STRUCTURAL PANELS SHALL BE LAID WITH THE LONG PANEL DIRECTION PERPENDICULAR TO THE SUPPORTING MEMBERS, WITH ENDS STAGGERED
- WOOD STRUCTURAL PANELS SHALL BEAR THE APPROPRIATE GRADING STAMP BY THE REVIEWING AGENCY.
- 10. ALL NAILS GIVEN ON THE PLANS SHALL BE CONSIDERED "COMMON NAILS" UNLESS NOTED ON THE PLANS. 11. ALL FASTENERS FOR WOOD CONSTRUCTION CONNECTORS (JOIST HANGERS
- ETC.) SHALL BE PROVIDED BY OR APPROVED BY THE CONNECTOR'S MANUFACTURER 12. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH
- PRESERVATIVE-TREATED OR FIRE TREATED WOOD SHALL BE STAINLESS STEEL
- 13. 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
- 14. 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.
- 15. NO WOOD MEMBER SHALL BE CUT, NOTCHED, OR DRILLED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE EOR.
- 16. THE GLUE-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.

#### STRUCTURAL STEEL

CODES:	
AISC	SPECIFICATION FOR DESIGN, FABRICATION AND
AISC	CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS
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

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.

. 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 EOR.

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.

#### POST-INSTALLED ANCHORS

BE REPLACED.

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 AND

UPLIFT ARE EQUAL TO OR GREATER THAN WHAT IS SPECIFIED ON THE DRAWINGS. THE COST OF REDESIGN OF SUCH SUBSTITUTIONS SHALL BE BORE BY THE CONTRACTOR. 3. INSTALLATION OF ANCHORS SHALL STRICTLY FOLLOW ALL MANUFACTURER'S

WRITTEN INSTRUCTIONS AND SPECIFICATIONS. ALL DRILL HOLE PREPARATIONS SHALL BE FOLLOWED. 4. NO LOAD SHALL BE APPLIED TO ADHESIVE ANCHORS PRIOR TO THE FULL CURE

TIME AS SPECIFIED BY THE MANUFACTURER. 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



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Project Info. -22005

## **RIVERSIDE PARK** RESTROOMS

New Construction

600 Labaree St Watertown, WI

#### Sheet Title

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SHEARWALL SCHEDULE							
	BLOCKED/ UNBLOCKE D	EXTERIOR SHEATHING		INTERIOR SHEATHING			
MARK		TYPE	FASTENING	TYPE	FASTENING	SILL PLATE ANCHORS	
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 DENOTE

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.

PROVIDE STRAPS AND WRAP AROUND BEAM.

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 PARAPE	T SURFACE P	RESSURE (PSP	=)		
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 PR	ESSURE (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		



TES ANCHORAGE TYPE.	SEE SHEARWALL	ANCHORAGE SCHEDULE.
		Automotivitole contebolet.

4. IF SHEARWALL ENDS ARE UNALIGNED, CONTINUE END POST TO FOUNDATION AND PROVIDE HOLDOWN. IF SHEARWALL IS SUPPORTED BY BEAM,

	SYSTEM	7.05		CONC		00000		COMPACTED GRAVEL		DEMARKO.
	DEPIH		THICKNESS					THICKNESS		
SUG 5	11.	NVVC	5"	FURTAF	ERRO FIBER REI	INFORCING	5 (3 LB/CY)	6	SEE I	YPICAL SLAB JOINT DETA
				WOO	D DECK/SHEATI	HING SCHE	EDULE			
	SYSTEM		STRUCT	URAL LAYER			TOPPING/OV	ERLAYMENT		
MARK	DEPTH		TYPE		THICKNESS		TYPE	THICKN	ESS	REMARKS
WD062	5/8"	PLYWO	OD/OSB WOOD	SHEATHING	5/8"		-			PROVIDE SIMPSON PSC CLIPS AT PANEL EDGES
					PIER SCHE	EDULE				
MARK		DI	MENSIONS		R	EINFORCI	NG			
	DIAMETE	ER	WIDTH	DEPTH	VERTICAL		TIES		REWARKS	
					LINTEL SCH	IEDULE				
MARK										
L1		8" BOND BEAM W/ (2)-#5 CONT				JAMB RE	INF LIN			REMARKS
		8" E	BOND BEAM W/	2)-#5 CONT		<b>JAMB RE</b> (1) #5		A A		REMARKS
L2		8" E 16"	BOND BEAM W/ ( BOND BEAM W/	2)-#5 CONT (2)-#5 CON		(1) #5		A A		REMARKS
L2		8" E	BOND BEAM W/	2)-#5 CONT (2)-#5 CON		<b>JAMB RE</b> (1) #5 (1) #5		A A		REMARKS
L2		8" E 16"	BOND BEAM W/	2)-#5 CONT (2)-#5 CON		(1) #5 (1) #5	E	A A A		REMARKS
L2 MARK		8" E 16" SIZ	BOND BEAM W/	2)-#5 CONT (2)-#5 CON GRADE	WOOD COLUMN TOP CON	JAMB RE (1) #5 (1) #5 SCHEDUL		A A		REMARKS
L2 MARK WC1		8" E 16" SIZ 6X6 TI	ZE MBER	2)-#5 CONT (2)-#5 CON GRADE SPF No.1/N	WOOD COLUMN TOP CON	JAMB RE         (1) #5         (1) #5         SCHEDUL         NECTION         CQ	E BOTTON CONNECTI ABU	ITEL TYPE A A A GALVANIZ		REMARKS REMARKS IECTIONS WHEN EXPOSE ) WEATHER
L2 MARK WC1		8" E 16" SI2 6X6 TI	ZE MBER	2)-#5 CONT (2)-#5 CON <b>GRADE</b> SPF No.1/N	WOOD COLUMN TOP CON	JAMB RE         (1) #5         (1) #5         SCHEDUL         NECTION         CQ	E BOTTOM CONNECTI ABU	ITEL TYPE A A ON GALVANIZ	E CONN TC	REMARKS REMARKS IECTIONS WHEN EXPOSE WEATHER
L2 MARK WC1		8" E 16" SIZ	ZE MBER	2)-#5 CONT (2)-#5 CON GRADE SPF No.1/N	WOOD COLUMN TOP CON 0.2 CC	JAMB RE         (1) #5         (1) #5         SCHEDUL         CQ         SCHEDUL	E BOTTOM CONNECTI ABU	ITEL TYPE A A A GALVANIZ	E CONN TC	REMARKS REMARKS IECTIONS WHEN EXPOSE O WEATHER
MARK WC1		8" E 16" SI2 6X6 TI	ZE MBER GR	2)-#5 CONT (2)-#5 CON GRADE SPF No.1/N	WOOD COLUMN TOP CON 0.2 CC WOOD HEADER JAMB STUDS	JAMB RE         (1) #5         (1) #5         SCHEDUL         SCHEDUL         SCHEDUL	E BOTTOM CONNECTI ABU	ITEL TYPE A A A GALVANIZ		REMARKS REMARKS IECTIONS WHEN EXPOSE WEATHER

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

INFREE OF LEAST HORIZONTAL
DIMENSION OR 3 FT.
"h" MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR Ø ≤ 10°
"Ø" ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.

## **COMPONENTS & CLADDING DIAGRAM**

ARCH TECTS
<ul> <li>Architect</li> <li>259 South Stree, Suite A</li> <li>WAUKESHA, WI 53186</li> <li>p: 833-380-6180</li> </ul>
Project Info22005
RIVERSIDE PARK RESTROOMS
New Construction
600 Labaree St Watertown, WI
-Sheet Title
SCHEDULES

Section 3, Item C.

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- FOUNDATION PLAN NOTES:
  1. SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2 FOR SCHEDULES.
  2. SEE SHEET S3.0.FOR FOUNDATION WALL CONSTRUCTION JOINTS AND TYPICAL REINFORCING DETAILS.
  3. TOP OF EXTERIOR FOOTING ELEVATION = 96'-0" UNO.

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S3.1

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5'-0"

P1 F3

-4"

3 \S3.1/

7

S3.0

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- 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.



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## RIVERSIDE PARK RESTROOMS

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- COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
- ALL HEADERS AND BEAMS TO BE DROPPED UNO.
   ALL WOOD STUD BEARING WALLS TO BE 2x6 SPF No.1/No.2 @ 16" OC.



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- <u>ROOF PLAN NOTES:</u>
  SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2FOR SCHEDULES.
  SEE SHEET S4.0 FOR TYPICAL MASONRY SECTIONS AND DETAILS, INCLUDING TYPICAL WALL REINFORCING.

- SEE SHEET S6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
   SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
   COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS
- CONTRACTORS.
  PROVIDE L1 LINTEL FOR ALL LOUVER OPENINGS. COORDINATE WITH ARCH & MEP FOR LOCATIONS AND SIZES.



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## RIVERSIDE PARK RESTROOMS

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REIN	REINFORCING LAP SPLICE LENGTH SCHEDULE									
		BAR SIZE								
10 (PSI)	LOCATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
3 000	TOP BARS	28	38	47	56	81	93	105	118	131
3,000	OTHERS	22	29	36	43	63	72	81	91	101
4 000	TOP BARS	25	33	41	49	71	81	91	102	114
4,000 OTHERS 19 25 31 37 54 62 70 79 87						87				
NOTES: 1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING										

BARS AND NORMAL WEIGHT CONCRETE

- TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-14. LENGTHS ARE IN INCHES.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- SPLICE LENGTHS IN THIS SCHEDULE ARE BASED ON CLEAR COVER AT LEAST 1.0 BAR Ø AND CLEAR SPACING AT LEAST 2.0 BAR Ø.

- SECTION 1: SLAB-ON-GRADE NOTES 1. SLAB-ON-GRADE CONSTRUCTION SHOULD CONFORM WITH THE RECOMMENDATIONS AND REQUIREMENTS SET FORTH IN THE LATEST RELEASE OF ACI 302 GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
- REFER TO GEOTECHNICAL REPORT AND/OR ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION. MUD SLAB AND/OR VAPOR RETARDER REQUIREMENTS
- 3. THE SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
- REFER TO PLANS FOR SLAB THICKNESS ("T") AND REINFORCEMENT (WWF OR REINFORCEMENT BARS). REFER TO SPECIFICATIONS FOR FIBER REINFORCEMENT TO BE INCORPORATED IN CONCRETE MIX, IF ANY. WHERE PRESENT, REINFORCING BARS SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
- PROVIDE (2) #5 x 6'-0" AT ALL RE-ENTRANT CORNERS AND OTHER SIMILAR SLAB DISCONTINUITIES. 6. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE
- CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMNS SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 x ("T") UNO. THE RESULTING PANELS SHOULD BE APPROXIMATELY SQUARE.

#### SECTION 2: CONSTRUCTION JOINT NOTES BREAK THE BOND BETWEEN NEW AND PREVIOUSLY PLACES SLABS BY SPRAYING OR BY PAINTING THE EXPOSED SIDE OF THE JOINT WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.

#### SECTION 3: CONTROL JOINT NOTES

- 1. FOR SAW-CUT CONTROL JOINTS, MAKE THE SAW-CUT AS SOON AS THE SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO THE FINISHED SURFACE OF THE SLAB, BUT WITHIN 24 HOURS.
- 2. DEPTH OF SAW-CUT SHOULD BE 1 1/4" IF PRODUCED USING THE EARLY ENTRY DRY-CUT PROCESS AND "T"/4 (1" MIN) IF PRODUCED USING THE CONVENTIONAL WET-CUT PROCESS.
- REFER TO SPECIFICATIONS REGARDING EPOXY RESIN OR ELASTOMERIC SEALANT REQUIREMENTS FILL CONTROL JOINTS.

#### SECTION 4: FORMED CONTROL JOINT OPTION NOTES FORM CONTROL JOINTS BY INSERTING A PRE-MOLDED STRIP INTO

- THE FRESH CONCRETE UNTIL THE TOP SURFACE OF THE STRIP IS FLUSH WITH THE TOP SURFACE OF THE SLAB.
- 2. TOOL THE SLAB EDGES ROUND ON EACH SIDE OF THE INSERT, 1/8" MAX RADIUS. 3. AFTER THE CONCRETE HAS CURED, REMOVE THE INSERTS AND
- CLEAN THE GROOVE OF LOOSE DEBRIS.

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TYPICAL CONCRETE **REINFORCING LAP LENGTHS** SCALE: NTS





SCALE: NTS

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EXTEND FOOTING

CONCRETE

FOOTING

**REINFORCING AT CORNERS &** 

INTERSECTIONS AS SHOWN.



# **TYPICAL SLAB JOINTS**













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# NOTES: 1. APPLIES TO 24" (MAX) OPENINGS THROUGH FOUNDATION WALL.

TOP OF OPENING TO BE 24" (MIN) FROM TOP OF WALL.
 REINFORCING LAYERS TO MATCH FOUNDATION WALL.
 USE 90° STANDARD HOOK AT CORNERS AND ENDS OF WALL.

TYPICAL CONCRETE

WALL PENETRATION

(1) (S3.1)

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

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LAP LENGTH



PROVIDE VERT REINF IN

GROUTED CELL EA SIDE OF

BAR SIZE	8" & 10" BLOCK CLEAR COVER <u>&gt;</u> 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

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

CONC MASONRY

SASH UNIT















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TYPICAL FASTENING SCHEDULE			
CONNECTION TYPE:	NAILING - COMMON NAILS: (UNLESS OTHER CONNECTION IS REQUIRED)	NAILING - STRIP NAILS: (UNLESS OTHER CONNECTION IS REQUIRED	
DOUBLE TOP PLATES, FACE NAIL DOUBLE TOP PLATES, LAP SPLICE, FACE NAIL TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	16d COMMON (3-1/2"x0.135") @ 16" OC (8) 16d COMMON (3-1/2"x0.162") (2) 16d COMMON (3-1/2"x0.162")	3"x0.131" @ 12" OC (12) 3"x0.131" (3) 3"x0.131"	
TOP PLATE TO STUD, END NAIL CONT HEADER TO STUD, TOENAIL STUD TO SOLE PLATE	<ul> <li>(2) 16d COMMON (3-1/2"x0.162")</li> <li>(4) 8d COMMON (2-1/2"x0.131")</li> <li>(4) 8d COMMON (2-1/2"x0.131"), TOENAIL OR</li> <li>(2) 16d COMMON (3-1/2"x0.162"), END NAIL</li> </ul>	3"x0.131"  (4) 3"x0131" TOENAIL (3) 3"x0.131" END NAIL	
BUILT-UP STUD COLUMNS, FACE NAIL BUILT-UP CORNER STUDS & SUPPORT STUDS	10d COMMON (3"x0.148") @ 16" OC STAGGERED 16d COMMON (3-1/2"x0.162") @ 24" OC STAGGERED	3"x0.131" @ 12" OC STAGGERED 3"x0.131" @ 16" OC STAGGERED	
BUILT-UP HEADER, FACE NAIL	16d COMMON (3-1/2"x0.162") @ 12" OC ALONG EACH EDGE		
PLYWOOD/OSB ROOF SHEATHING (APA RATED) UNLESS NOTED OTHERWISE	8d COMMON (2-1/2"x0.131") @ 6" OC AT SUPPORTED PANEL EDGES 8d COMMON (2-1/2"x0.131") @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS	3"x0.131" @ 6" OC AT SUPPORTED PANEL EDGES 3"x0.131" @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS	
JOIST TO SILL OR GIRDER, TOENAIL RIM JOIST TO TOP PLATE, TOENAIL BLOCKING BTWN JOIST/RAFTERS TO TOP PL, TOENAIL	(3) 8d COMMON (2-1/2"x0.131") 8d COMMON (2-1/2"x0.131") @ 6" OC (3) 8d COMMON (2-1/2"x0.131")	(3) 3"x0.131" 3"x0.131" @ 6" OC (3) 3"x0.131"	
JOIST TO RIM BOARD, FACE NAIL SOLE PLATE TO JOIST/BLOCKING, FACE NAIL	(3) 16d COMMON (3-1/2"x0.162") 16d COMMON (3-1/2"x0.135") @ 16" OC	(4) 3"x0.131" 3"x0.131" @ 8" OC	
FLOOR SHEATHING (APA RATED) UNLESS NOTED OTHERWISE	#8 SCREWS @ 6" OC AT SUPPORTED PANEL EDGES #8 SCREWS @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS W/ CONSTRUCTION ADHESIVE	#8 SCREWS @ 6" OC AT SUPPORTED PANEL EDGES #8 SCREWS @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS W/ CONSTRUCTION ADHESIVE	

#### **TYPICAL WOOD FASTENING SCHEDULE** (1) (S6.0) SCALE: NTS



11'-0" TO 14'-0" (2) 1 3/4"x5 1/2"

14'-0" TO 16'-0" (3) 1 3/4"x5 1/2"

WOOD HEADER, REFER TO PLAN & SCHEDULE FOR SIZE

BEARING STUDS UNDER WOOD HEADER (SHOULDER STUDS). **REFER TO PLAN & SCHED FOR** SIZE AND QUANTITY. MATCH **DEPTH & GRADE OF ADJACENT** WALL STUDS.

WALL OPENING

SILL PLATE SEE SCHEDULE

KING STUDS, REFER TO PLAN FOR SIZE & QUANTITY MATCH DEPTH & GRADE OF ADJACENT WALL STUDS.

PRESERVATIVE-TREATED PLATE WHERE WALL RESTS ON CMU OR CONCRETE FOUNDATION

USE SIMPSON HH HEADER HANGER FOR HEADER CONNECTION TO WOOD COLUMNS.

2.0E LVL

2.0E LVL

A35

A35





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SCALE: NTS

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-Sheet Title
WOOD SECTIONS & DETAILS

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