



Location
2115 Allen Boulevard

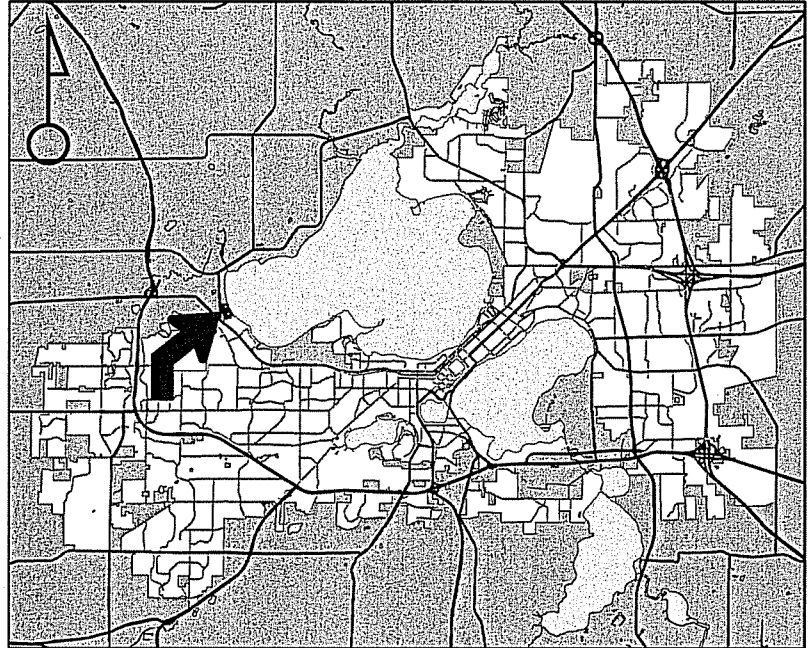
Project Name
MMSD – Pump Station 15

Applicant
Erik Rehr–Madison Metropolitan Sewage Dist./
Doug Hursh–Potter Lawson Inc.

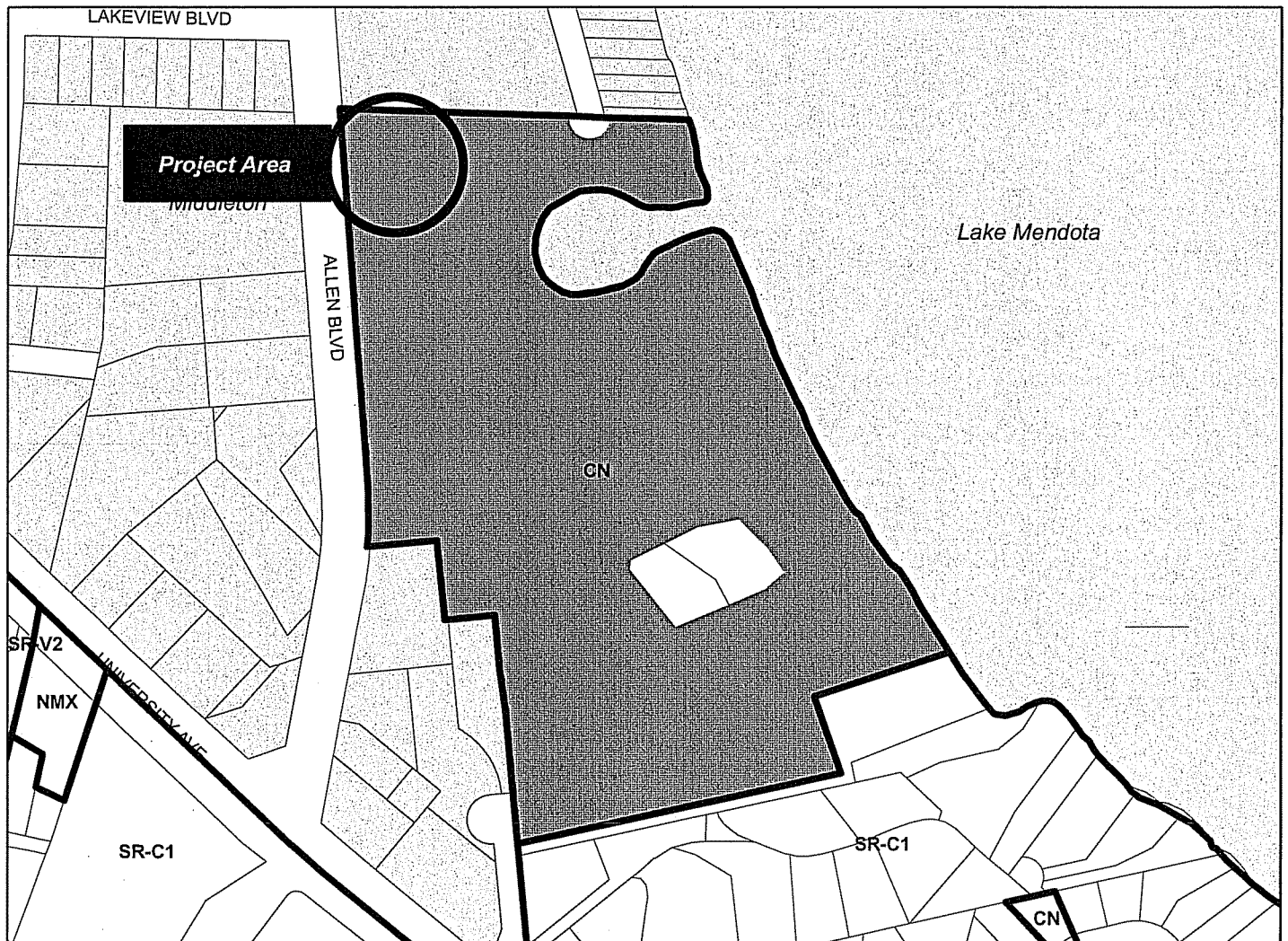
Existing Use
Marshall Park and MMSD Pump Station

Proposed Use
Additions and renovations to an existing
Madison Metropolitan Sewerage District
pump station and construction of new
restrooms at Marshall Park

Public Hearing Date
Plan Commission
22 February 2016

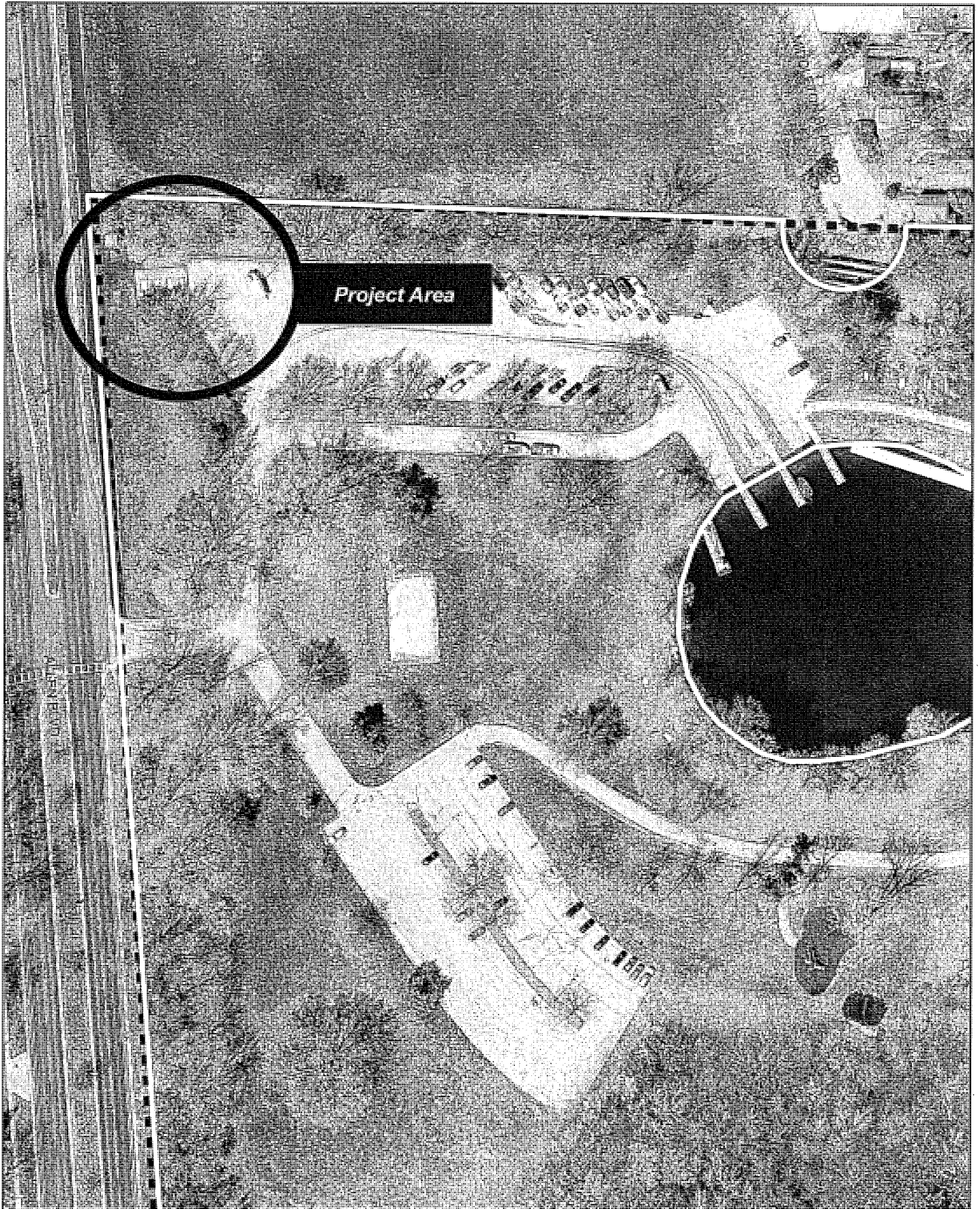


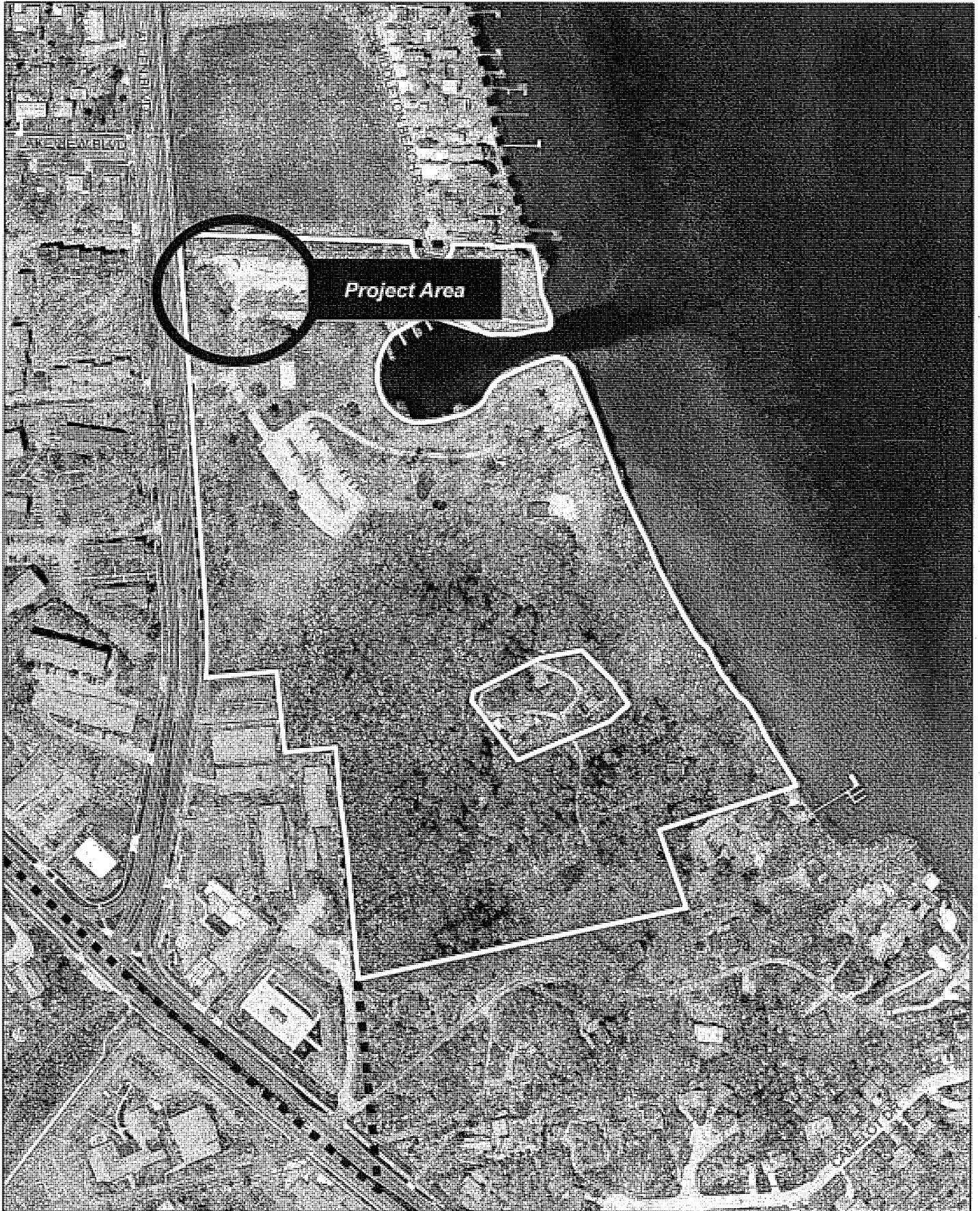
For Questions Contact: Tim Parks at: 261-9632 or tparks@cityofmadison.com or City Planning at 266-4635



Scale : 1" = 400'

City of Madison, Planning Division : RPJ : Date : 15 February 2016







LAND USE APPLICATION

CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

- All Land Use Applications should be filed with the Zoning Administrator at the above address.
- The following information is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed using the Subdivision Application.
- This form may also be completed online at:
www.cityofmadison.com/developmentcenter/landdevelopment

FOR OFFICE USE ONLY:	
Amt. Paid <u>No fee</u>	Receipt No. _____
Date Received <u>12/16/15</u>	
Received By <u>JLK</u>	
Parcel No. <u>0709-073-0099-4</u>	
Aldermanic District <u>19/mark clear</u>	
Zoning District <u>CN</u>	
Special Requirements <u>floor plain, water front</u>	
Review Required By: <u>coj landmark</u>	
<input type="checkbox"/> Urban Design Commission	<input type="checkbox"/> Plan Commission
<input type="checkbox"/> Common Council	<input type="checkbox"/> Other: _____

Form Effective: February 21, 2013

1. **Project Address:** 2115 Allen Boulevard, Madison WI 53705
Project Title (if any): Madison Metropolitan Sewerage District - Pump Station 15

2. **This is an application for (Check all that apply to your Land Use Application):**

- Zoning Map Amendment from _____ to _____
- Major Amendment to Approved PD-GDP Zoning Major Amendment to Approved PD-SIP Zoning
- Review of Alteration to Planned Development (By Plan Commission)
- Conditional Use, or Major Alteration to an Approved Conditional Use
- Demolition Permit
- Other Requests: Conditional use within CN - Conservancy Zoning - Public Building

3. **Applicant, Agent & Property Owner Information:**

Applicant Name: Erik Rehr **Company:** Madison Metropolitan Sewerage District
Street Address: 1610 Moorland Road **City/State:** Madison, WI **Zip:** 53713
Telephone: (608) 272-1201 **Fax:** () **Email:** erikr@madsewer.org

Project Contact Person: Doug Hursh **Company:** Potter Lawson Inc.
Street Address: 749 University Row, Suite 300 **City/State:** Madison, WI **Zip:** 53705
Telephone: (608) 274-2741 **Fax:** () **Email:** dough@potterlawson.com

Property Owner (if not applicant): _____
Street Address: _____ **City/State:** _____ **Zip:** _____

4. **Project Information:**

Provide a brief description of the project and all proposed uses of the site: _____
Above grade addition to house equipment for existing sewer pump station. Also, new public restrooms for the park.

Development Schedule: Commencement _____ Completion _____

5. Required Submittal Information

All Land Use applications are required to include the following:

Project Plans including:*

- Site Plans (fully dimensioned plans depicting project details including all lot lines and property setbacks to buildings; demolished/proposed/alterd buildings; parking stalls, driveways, sidewalks, location of existing/proposed signage; HVAC/Utility location and screening details; useable open space; and other physical improvements on a property)
- Grading and Utility Plans (existing and proposed)
- Landscape Plan (including planting schedule depicting species name and planting size)
- Building Elevation Drawings (fully dimensioned drawings for all building sides, labeling primary exterior materials)
- Floor Plans (fully dimensioned plans including interior wall and room location)

Provide collated project plan sets as follows:

- **Seven (7) copies** of a full-sized plan set drawn to a scale of 1 inch = 20 feet (folded or rolled and stapled)
- **Twenty Five (25) copies** of the plan set reduced to fit onto 11 X 17-inch paper (folded and stapled)
- **One (1) copy** of the plan set reduced to fit onto 8 ½ X 11-inch paper

* For projects requiring review by the **Urban Design Commission**, provide **Fourteen (14) additional 11x17 copies** of the plan set. In addition to the above information, all plan sets should also include: 1) Colored elevation drawings with shadow lines and a list of exterior building materials/colors; 2) Existing/proposed lighting with photometric plan & fixture cutsheet; and 3) Contextual site plan information including photographs and layout of adjacent buildings and structures. The applicant shall bring samples of exterior building materials and color scheme to the Urban Design Commission meeting.

Letter of Intent: Provide one (1) Copy per Plan Set describing this application in detail including, but not limited to:

- | | | |
|---|---|--|
| • Project Team | • Building Square Footage | • Value of Land |
| • Existing Conditions | • Number of Dwelling Units | • Estimated Project Cost |
| • Project Schedule | • Auto and Bike Parking Stalls | • Number of Construction & Full-Time Equivalent Jobs Created |
| • Proposed Uses (and ft ² of each) | • Lot Coverage & Usable Open Space Calculations | • Public Subsidy Requested |
| • Hours of Operation | | |

Filing Fee: Refer to the Land Use Application Instructions & Fee Schedule. Make checks payable to: *City Treasurer*.

Electronic Submittal: All applicants are required to submit copies of all items submitted in hard copy with their application as Adobe Acrobat PDF files on a non-returnable CD to be included with their application materials, or by e-mail to pcapplications@cityofmadison.com.

Additional Information may be required, depending on application. Refer to the Supplemental Submittal Requirements.

6. Applicant Declarations

Pre-application Notification: The Zoning Code requires that the applicant notify the district alder and any nearby neighborhood and business associations **in writing** no later than **30 days prior to FILING this request**. List the alderperson, neighborhood association(s), and business association(s) AND the dates you sent the notices:
Alder Mark Clear: notified in June. Open neighborhood meeting July 14, 2015.

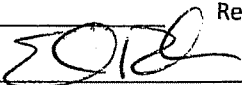
→ If a waiver has been granted to this requirement, please attach any correspondence to this effect to this form.

Pre-application Meeting with Staff: Prior to preparation of this application, the applicant is required to discuss the proposed development and review process with Zoning and Planning Division staff; note staff persons and date.

Planning Staff: Tim Parks / Al Martin Date: March 20, 2015 Zoning Staff: Matt Tucker Date: December 8, 2015

The applicant attests that this form is accurately completed and all required materials are submitted:

Name of Applicant Erik Rehr Relationship to Property: MMSD Engineer

Authorizing Signature of Property Owner  Date 12-16-15



Letter of Intent-City of Madison Planning Commission

**Pumping Station 15
2115 Allen Boulevard**

Madison Metropolitan Sewerage District
December 18, 2015

Project Team

The project design team includes Baxter & Woodman (Lead), Potter Lawson, Inc. (Architect), Ken Saiki Design (Landscape Architecture), Sustainable Engineer Group (Solar Panel Design), Karen Kabbes (ISI Envision Coordinator), CGC, Inc. (Geotechnical) and MMSD District staff. Key personnel for each team are shown in Table 1.

TABLE 1

Project Design Team

Firm	Person	Role
Baxter & Woodman, Inc. (Lead)	Jim Kleinschmidt	Overall Project Manager
	Amanda Heller	Project Engineer
	Adam Stec	Structural Engineer
	Lee Rita Rigos	Controls
	Elizabeth Quimby	Electrical Engineer
Potter Lawson, Inc (Architect)	Doug Hursh	Project Manager
	Andy Laufenberg	Project Architect
Ken Saiki Design(Landscape Architect)	Nik Swartz	Landscape Architect
Karen Kabbes Engineering (ISI Envision Coordinator)	Karen Kabbes	ISI Envision
CGC, Inc (Geotechnical)	Bill Wuellner	Geotechnical Engineering
Sustainable Engineering Group	Jon Evans	Solar Panel Design
	Andy DeRocher	Solar Panel Design

Firm	Person	Role
Madison Metropolitan Sewerage District	Erik Rehr	Project Manager
	Michael Mucha	Chief Engineer
	Bruce Borelli	Director of Engineering
	Claudia Haack	Director of Sustainable Asset Management
	Dave Lundey	Electrical Construction Supervisor
	John Bembinster	Electrical Engineer

Existing Conditions and Project Description

The pumping station is located within an easement in the northwest corner of Marshall Park on the far west site boundary between Madison and Middleton. The current station is mostly underground and extends about 24" above the grade. There is also a large external transformer and switch gear on the site for the station.

The original pumping station was built in 1974 and serves Madison, Middleton, and the town of Westport. The station operates on a continuous basis every day of the year. The proposed project will create a pumping station superstructure to house electrical and HVAC equipment. A building addition will also be constructed to the north of the existing pumping station. The new structure will house new electrical and mechanical equipment needed to upgrade and renovate the existing pump station. Restrooms are also included in the project. The restrooms will be owned and maintained by the City of Madison Parks Department but funding for the project will be provided by the Madison Metropolitan Sewerage District. There will also be an aquatic invasive species control center to allow boaters to remove materials from their boats prior to leaving Marshall Park.

The design process has followed the Institute for Sustainable Infrastructure (ISI) Envision guidelines and has taken into consideration community needs. A bike repair station will be located near the Allen Boulevard bike as an amenity for bikers; also a new sidewalk connection from the bike path will provide an accessible route to the bike station, pump station building, and Marshall Park. The restrooms and Aquatic Invasive Species Control Center were added after public comments requesting both project elements.

A public meeting was held on July 14, 2015 in Marshall Park. Alders for both Madison and Middleton were present in addition to about 20 members of the public. Presentations were made by the Design Team and were followed by questions from the public in attendance. The most overwhelming request was to provide better access to restrooms in Marshall Park and to provide an aquatic invasive species control center. After negotiations between the City of Madison Parks and Madison Metropolitan Sewerage District, the District agreed to finance and facilitate the construction of the restrooms. Upon completion of the restrooms and the aquatic invasive species control center, the District will deed these over to the City of Madison who will be responsible for the ongoing maintenance of these facilities. The restrooms will be open from 7 AM to 10 PM from about April 15th to November 15th.

As part of the MMSD's mission to protect water (groundwater and surface water), a green roof, bio swale/dry stream bed, bioretention basin, and permeable pavers are used to manage storm water runoff on-site. Runoff from the restrooms and the Aquatic Invasive Species Control Center will drain to a bioretention basin where the runoff can be temporarily staged and allowed to infiltrate back into the soil. The built storm water management control features are designed to enhance the site while showcasing the District's commitment to water quality.

Some minor grading will occur on the west and north sides of the pump station building to enhance and integrate the bio swale/dry stream bed with existing site drainage patterns. Invasive species within the MMSD easement will be eradicated during the site clearing and re-grading process and restored with a low-maintenance turf. Proposed plantings consist of native and native cultivar trees, shrubs and perennials that will provide multi-seasonal interest. The proposed species have been carefully selected to ensure a low-maintenance landscape that will require minimal supplemental water or fertilizer which is consistent with ISI Envision Guidelines and MMSD's mission of protecting water resources.

Indigenous and locally sourced decorative stone in the form of accent boulders, cobbles, and mulch will be concentrated around roof scuppers while directing runoff to the storm water management feature to dissipate concentrated roof runoff volumes and provide filtration, cooling, and temporary staging of runoff while directing runoff to the storm water management features. Decorative stone material will also be integrated throughout the site to create a holistic landscape composition.

The sloped roof allows for translucent clerestory panels that allow daylight into the both the pumping station and the restrooms. Windows will be provided along the south side of the building to allow people to see the inner workings of the facility.

The building will include photovoltaic panels to generate about 8kW of power at full sun. This will provide about 30 percent of the required kW to operate one of the pumps in PS 15. The sloped roof on both the Pumping Station and restrooms allow for translucent clerestory panels that allow daylight into the facility. Windows will be provided along the south side of the building to allow people to see the inner workings of the facility. There will be a station status display for visitors to view. An informational kiosk will also be provided for educational purposes. If approved by the County, we will also likely have a bike trail map located near the bike station.

The site development was designed to minimize the elimination of critically needed boat trailer parking in Marshall Park. Design features were included to maintain the existing boat trailer parking stalls and minimize the exposure of the pumping station to boat trailer parking. Equipment for the station will be removed from the building using the double door entrance on the east side of the building along with the concrete pad extension.

The building materials will be durable and cleanable. The walls are constructed of burnished concrete blocks in a range of warm neutral colors to create a subtle range similar to natural stone. Cement board and composite wood siding will be used for the clerestory and roof fascia.

The project is expected to create 27,000 hours of work for both contractors and consulting engineers. There will be no additional full time equivalent jobs created by this project.

Figures 1 and 2 show the existing location of PS 15 in relation to Marshall Park.

FIGURE 1

MMSD PS 15-Allen Boulevard towards Marshall Park



FIGURE 2

Relationship of MMSD PS 15 to Marshall Park



-Project Schedule

Table 2 shows the proposed bidding and construction schedule for PS 15.

TABLE 2

Bidding and Construction Schedule-PS 15

Urban Design Commission Information Meeting	August 12, 2015
City of Madison Planning Commission Submittal	December 21, 2015
Submittal to Madison Parks	December 21, 2015
Madison Parks Commission Meeting	January 13, 2016
Urban Design Commission Meeting	February 10, 2016
Madison Plan Commission Meeting	February 22, 2016
City Council Approval-Conditional Use Permit	March 1, 2016
Advertise Project for Bids	March 1, 2016
Open Bids	March 31, 2016
Project Award-Contractor	April 14, 2016
Construction Begins	May 2016
Project Erosion Controls Completed	May 31, 2016
Building Addition Foundation	August 31, 2016
Meter Vault and Force Main Connection Manhole	August 31, 2016
Site Work and Paving (Binder Course Only)-Start Date	September 6, 2016
Bathroom Construction	October 31, 2016
Site Work and Paving (Binder Course Only)	October 31, 2016
Pumping Station Building Completion	December 2016
Final Paving	May 31, 2017
Project Completion	September 30, 2017

Building Sizes, Lot Coverage, Estimated Project Cost and Bike Stalls

The Pumping Station will be 1,650 square feet while the restrooms will be 380 square feet. The easement for PS 15 is 21,000 square feet. A portion of the construction will take place outside of the easement in both Marshall Park as well as in the City of Middleton storm sewer easement. The estimated project cost including the restrooms is \$3,800,000. The bike station will be provided with 4 stalls for bike parking.

RUBIX - model: WS-W2504, WS-W2505

LED Wall Mount

WAC LIGHTING

Responsible Lighting®



Fixture Type:

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION

Available in single- and twin-light configurations, this die cast aluminum LED wall luminaire is wet location listed for a broad range of exterior lighting applications. Designed with a square profile, this version of Rubix mounts upwards or downwards.

FEATURES

- Energy Star® rated
- CEC Title 24 Compliant
- Mounts up or down
- IP65 Rated, ETL & cETL Wet Location Listed
- Die-Cast Aluminum Construction
- Universal Voltage Input (120V - 277V)
- Dimming: ELV (120V) or 0-10V

SPECIFICATIONS

Construction: Aluminum with etched glass.

Power: Integral driver in luminaire. 120V - 277V input.

Light Source: High output LED

Mounting: Mounts directly to junction box

Dimming: 0-10V Dimming: 100%-10%

ELV Dimming: 100%-15% (120V only)


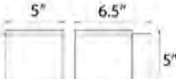
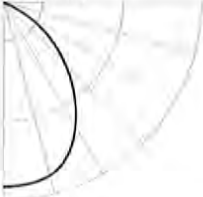


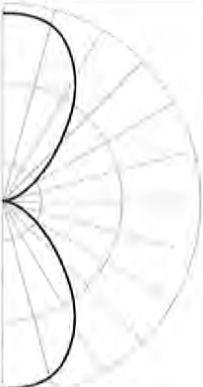

Finish: Brushed Aluminum (AL), Black (BK), Bronze (BZ), Graphite (GH), White (WT)

Color Temp: 3000K

CRI: 90

Rated Life: 70,000 hours

Standards: Energy Star® rated, IP65 Rated, ETL & cETL Wet Location Listed, CEC Title 24 Compliant, Dark Sky Friendly.

	Beam	Photometry	Voltage	Watt	Lumens	Finish
 <p>Single Light</p>  <p>WS-W2504 Dark Sky Friendly 86° Energy Star®</p>			120V-277V	16W	750	
 <p>Double Light</p>  <p>WS-W2505 86°</p>			120V-277V	30W	1400	<p>AL Brushed Aluminum</p> <p>BK Black</p> <p>BZ Bronze</p> <p>GH Graphite</p> <p>WT White</p> 

-

Example: **WS-W2504-GH**

wacighting.com

Phone (800) 526.2588

Fax (800) 526.2585

Headquarters/Eastern Distribution Center

44 Harbor Park Drive

Port Washington, NY 11050

Central Distribution Center

1600 Distribution Ct

Lithia Springs, GA 30122

Western Distribution Center

1750 Archibald Avenue

Ontario, CA 91760

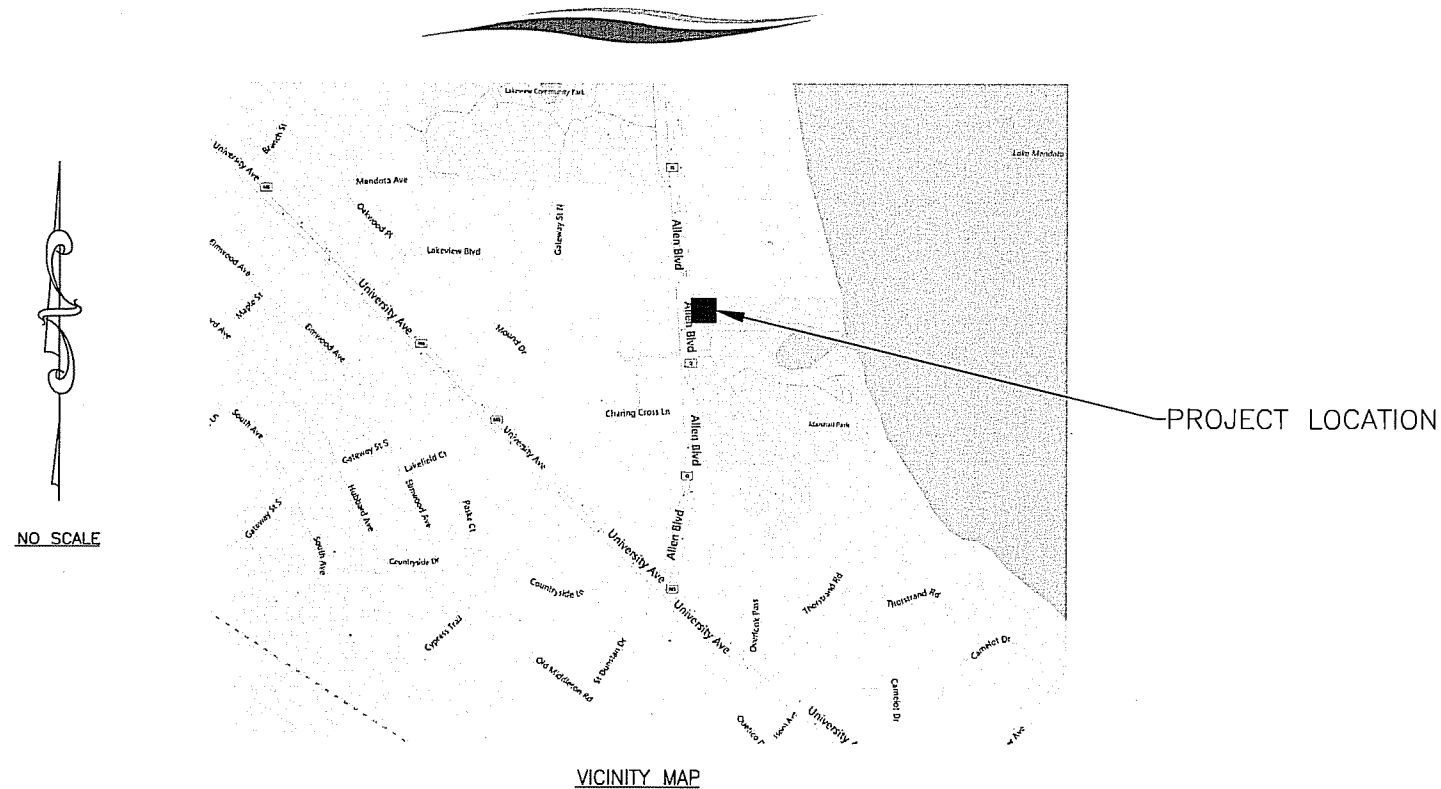
MADISON METROPOLITAN SEWERAGE DISTRICT

MADISON, WISCONSIN

PUMPING STATION 15 REHABILITATION

CITY OF MADISON PLANNING COMMISSION SUBMITTAL

Madison Metropolitan Sewerage District



City of Madison Planning Commission Submittal
List of Drawings

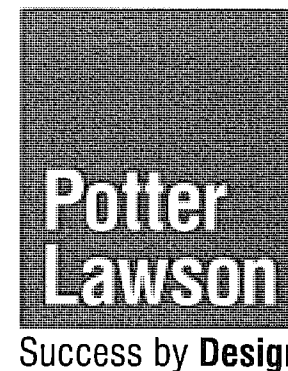
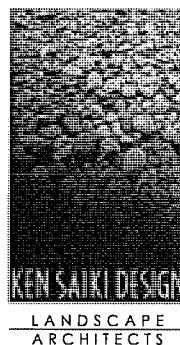
Drawing Number	Title
A-01	Floor Plan
A-02	Elevations
A-03	Elevations
A-04	Perspectives
A-05	Perspectives
L-01	Landscape Plan
L-02	Site Rendering
C-1	Demolition Site Plan (Existing Conditions)
C-2	Site Plan & Erosion Control
C-3	Mechanical Site Plan (Utilities)
C-6	Electrical Site Plan (Photometrics)
M-3	Upper Plan-Mechanical

VICINITY MAP

EXISTING UTILITIES:

WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS REGARDING THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION REGARDING THE LOCATION OF THE UTILITY FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.

BAXTER & WOODMAN
Consulting Engineers
WWW.BAXTERWOODMAN.COM



TO OBTAIN LOCATION OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

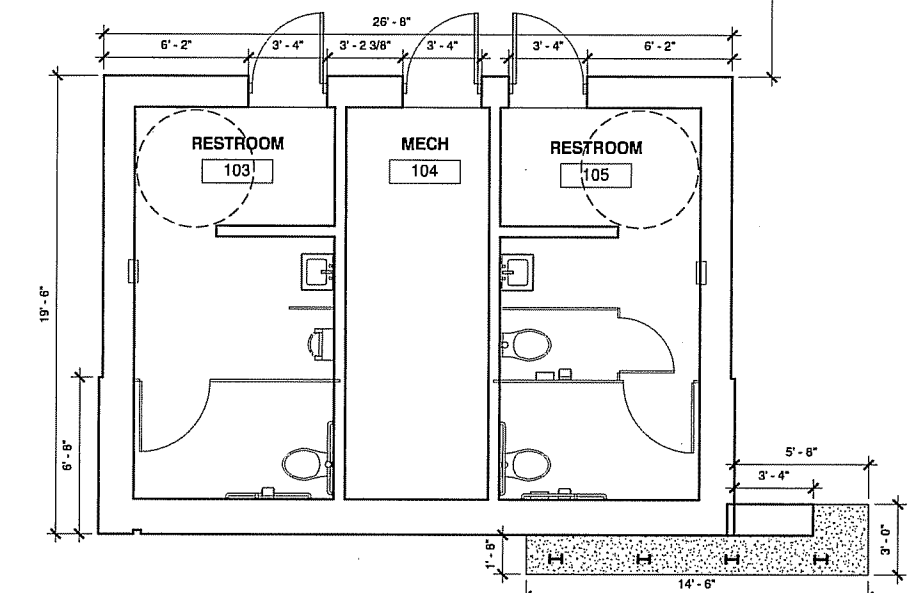
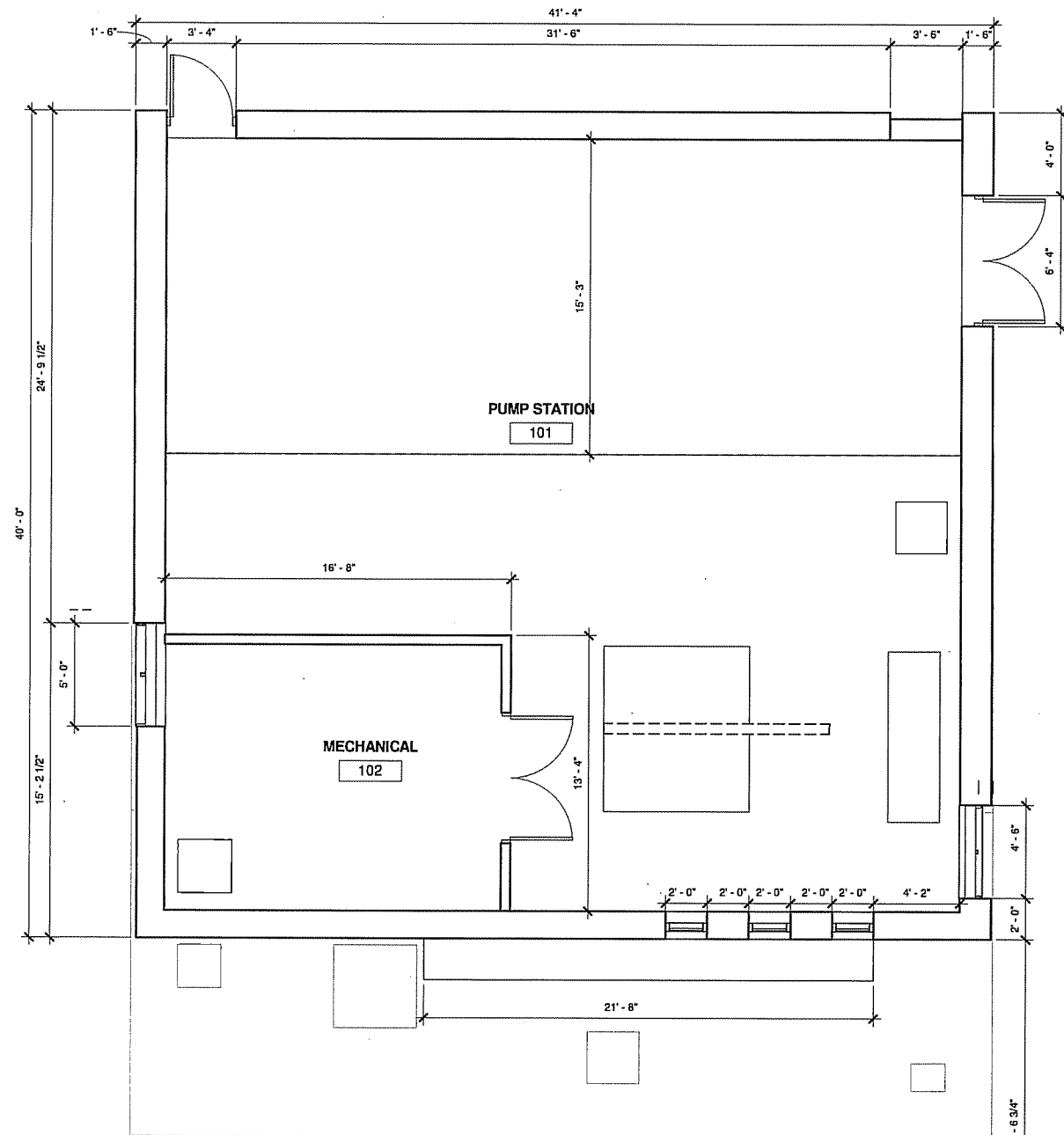
WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

BAXTER & WOODMAN, INC.
STATE OF WISCONSIN - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 484-011 - EXPIRES 1/31/2016

NOT FOR BIDDING

PROJECT NO.: 140963 DATE: 12/18/15
LAND USE SUBMITTAL

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 Plotted: 12/16/2015 9:24:30 AM By ANDREW L
 Copyright © 2015, By Baxter & Woodman, Inc.
 State of Wisconsin - Professional Design Firm
 License No. - 484-011 - Expires 1-31-16



1 FLOOR PLAN
 A-01 1/4" = 1'-0"
 0' 2' 4' 6'
 NORTH

PRELIMINARY USE ONLY NOT FOR CONSTRUCTION

CONSULTANTS

BAXTER & WOODMAN
 Consulting Engineers

Potter Lawson
 Success by Design

KEN SAIKI DESIGN
 LANDSCAPE ARCHITECTS

NO.	DATE	DESCRIPTION
	12/16/2015	Land Use Submittal

REVISIONS

PLAN SHEET DESIGNATION

COVER

- GENERAL
- CIVIL
- LANDSCAPING
- DEMOLITION
- ARCHITECTURAL
- STRUCTURAL
- MECHANICAL
- PLUMBING
- HVAC
- ELECTRICAL
- INSTRUMENTATION

PROJECT NO: 2015.04.00

SCALE: AS NOTED

DRAWING DATE:

DESIGNED BY: DOUG H

DRAWN BY: ANDREW L

CHECKED BY: DOUG H

CLIENT

MADISON METROPOLITAN SEWERAGE DISTRICT
 MADISON, WISCONSIN

Madison Metropolitan Sewerage District

PUMPING STATION 15 REHABILITATION

SHEET TITLE

Floor Plan

A-01

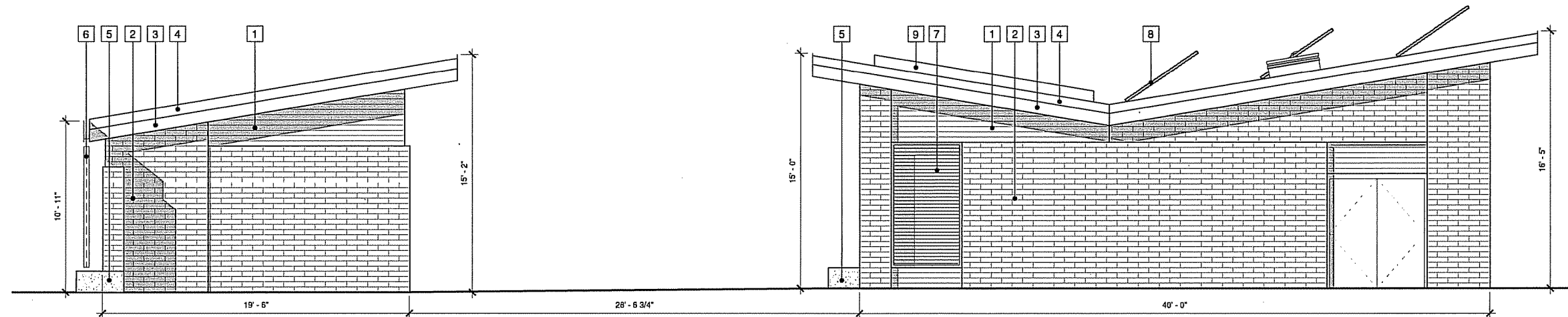
CONSULTANTS

BAXTER & WOODMAN
Consulting Engineers



ELEVATION KEY NOTES:

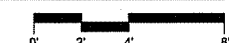
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|--------------------------|-------------------------------|
| 1 CEMENT BOARD SIDING | 8 SOLAR PANELS |
| 2 BURNISHED BLOCK VENEER | 9 GREEN ROOF |
| 3 CEMENT BOARD FASCIA | 10 TRANSLUCENT WALL PANEL |
| 4 METAL ROOF COPING | 11 T&G WOOD SOFFIT |
| 5 CONCRETE BENCH | 12 ALUMINUM STOREFRONT SYSTEM |
| 6 METAL SCUPPER / GUTTER | 13 STANDING SEAM METAL ROOF |
| 7 MECHANICAL LOUVER | |



2 Pump Station / Restroom - East Elevation
A-02 1/4" = 1'-0"



1 Pump Station / Restroom - West Elevation
A-02 1/4" = 1'-0"



NO.	DATE	DESCRIPTION
	12/18/2015	Land Use Submittal

PLAN SHEET DESIGNATION

C	COVER
G	GENERAL
C	CIVIL
D	DEMOLITION
A	ARCHITECTURAL
S	STRUCTURAL
M	MECHANICAL
P	PLUMBING
E	ELECTRICAL
I	INSTRUMENTATION

PROJECT NO: 2015.04.00
SCALE: AS NOTED
DRAWING DATE:
DESIGNED BY: DOUG H
DRAWN BY: ANDREW L
CHECKED BY: DOUG H

CLIENT
**MADISON METROPOLITAN SEWERAGE DISTRICT
MADISON, WISCONSIN**

Madison Metropolitan Sewerage District
**PUMPING STATION 15
REHABILITATION**

SHEET TITLE
Elevations

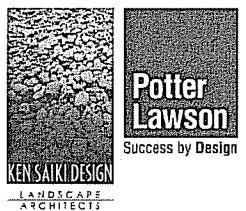
A-02

PRELIMINARY USE ONLY NOT FOR CONSTRUCTION

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State of Wisconsin - Professional Design Firm
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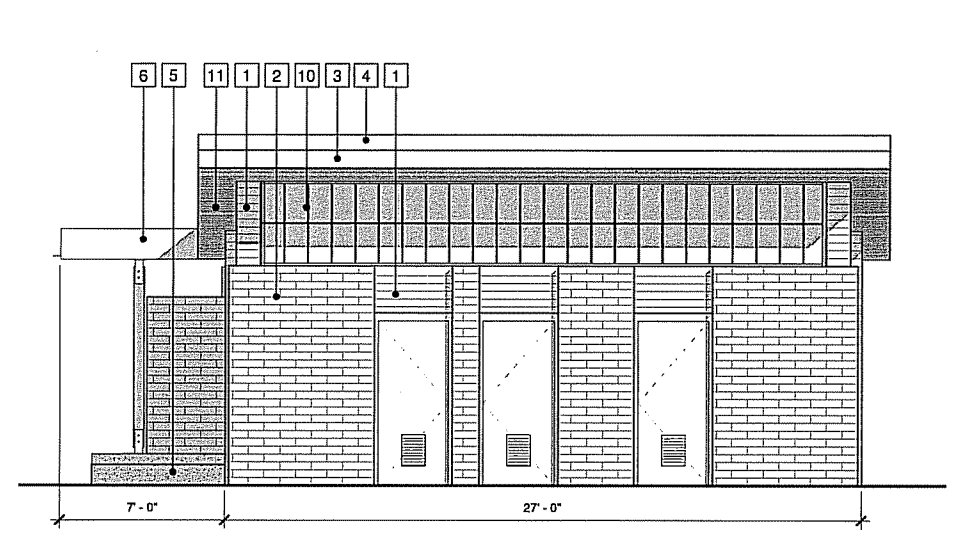
CONSULTANTS

BAXTER & WOODMAN
Consulting Engineers

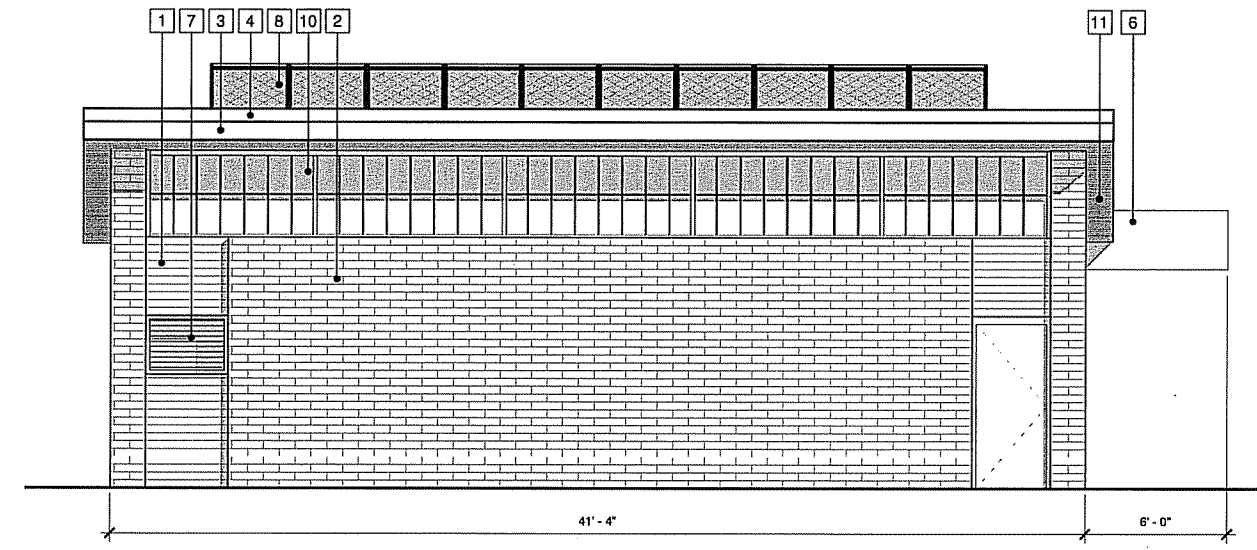


ELEVATION KEY NOTES:

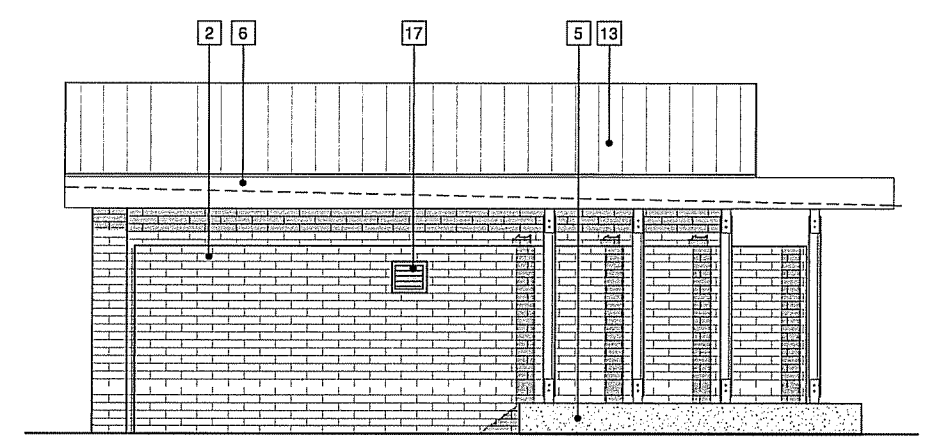
- | | |
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| 6 METAL SCUPPER / GUTTER | 13 STANDING SEAM METAL ROOF |
| 7 MECHANICAL LOUVER | |



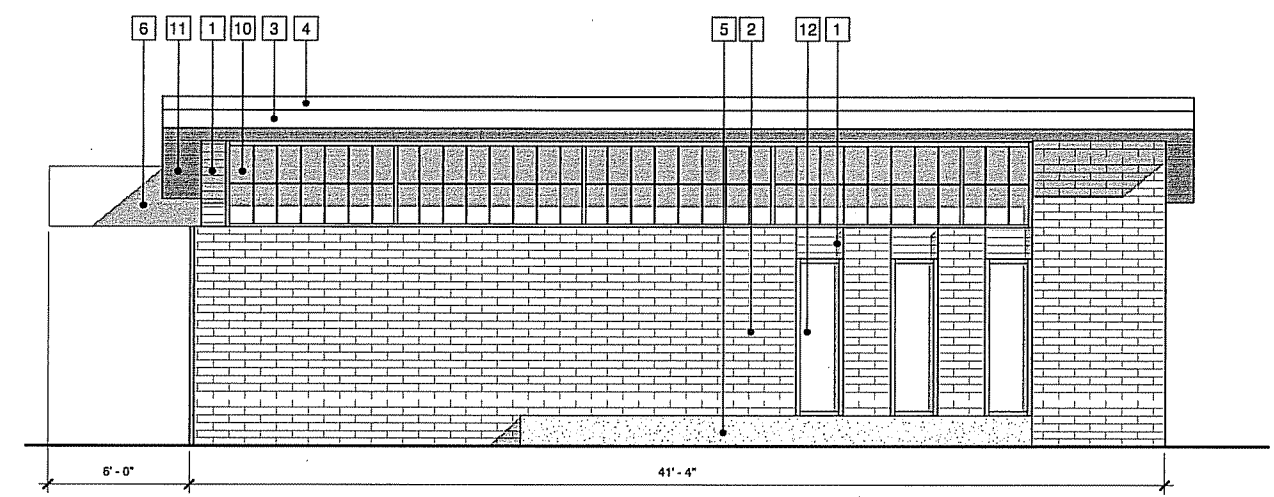
4 Restroom - North Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'



2 Pump Station - North Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'



3 Restroom - South Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'



1 Pump Station - South Elevation
A-03 1/4" = 1'-0"
0' 2' 4' 8'

NO.	DATE	DESCRIPTION
	12/18/2015	Land Use Submittal

PLAN SHEET DESIGNATION

C	COVER
G	GENERAL
C	CIVIL
L	LANDSCAPING
D	DEMOLITION
A	ARCHITECTURAL
S	STRUCTURAL
M	MECHANICAL
P	PLUMBING
E	HVAC
F	ELECTRICAL
I	INSTRUMENTATION

PROJECT NO: 2D15.04.DD

SCALE: AS NOTED

DRAWING DATE:

DESIGNED BY: DOUG H

DRAWN BY: ANDREW L

CHECKED BY: DOUG H

CLIENT

**MADISON METROPOLITAN
SEWERAGE DISTRICT
MADISON, WISCONSIN**

Madison Metropolitan Sewerage District

**PUMPING STATION 15
REHABILITATION**

SHEET TITLE

Elevations

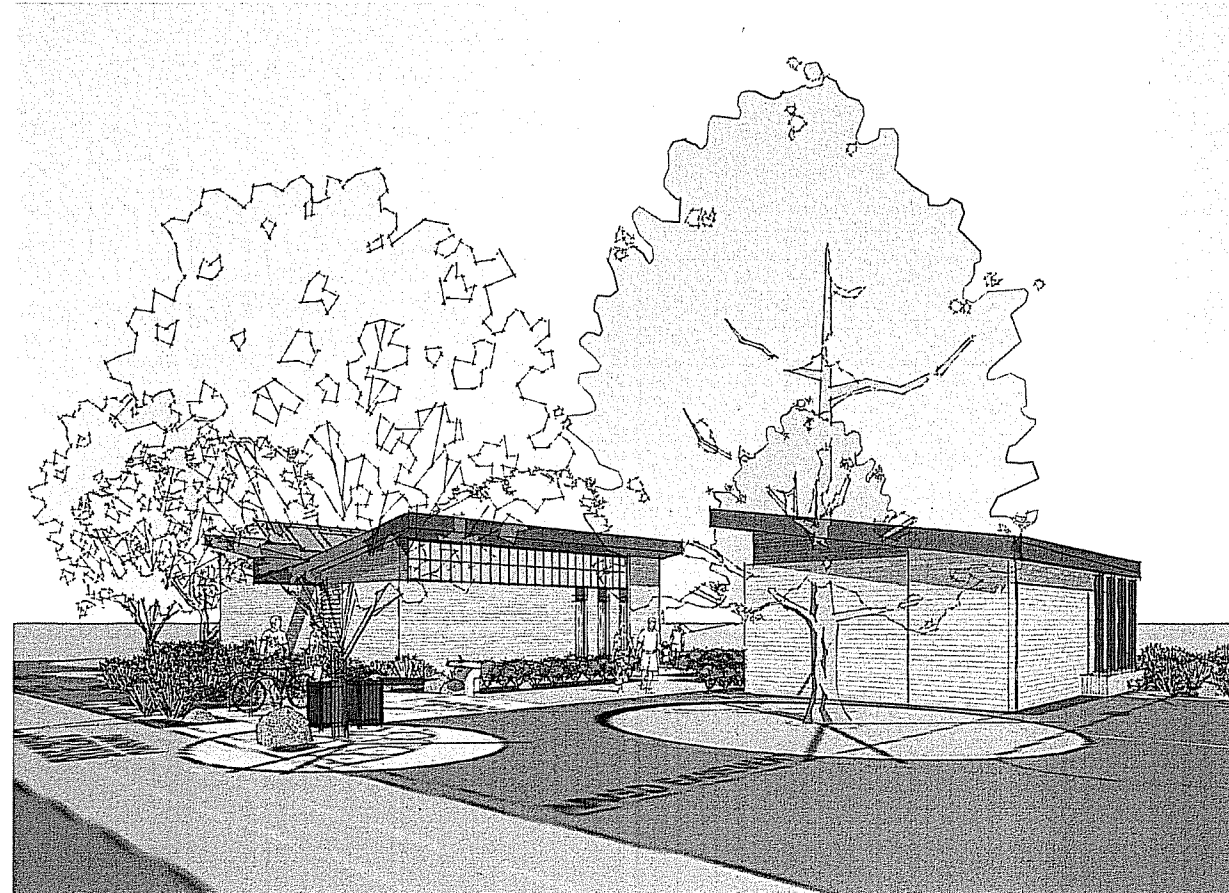
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PRELIMINARY USE ONLY NOT FOR CONSTRUCTION

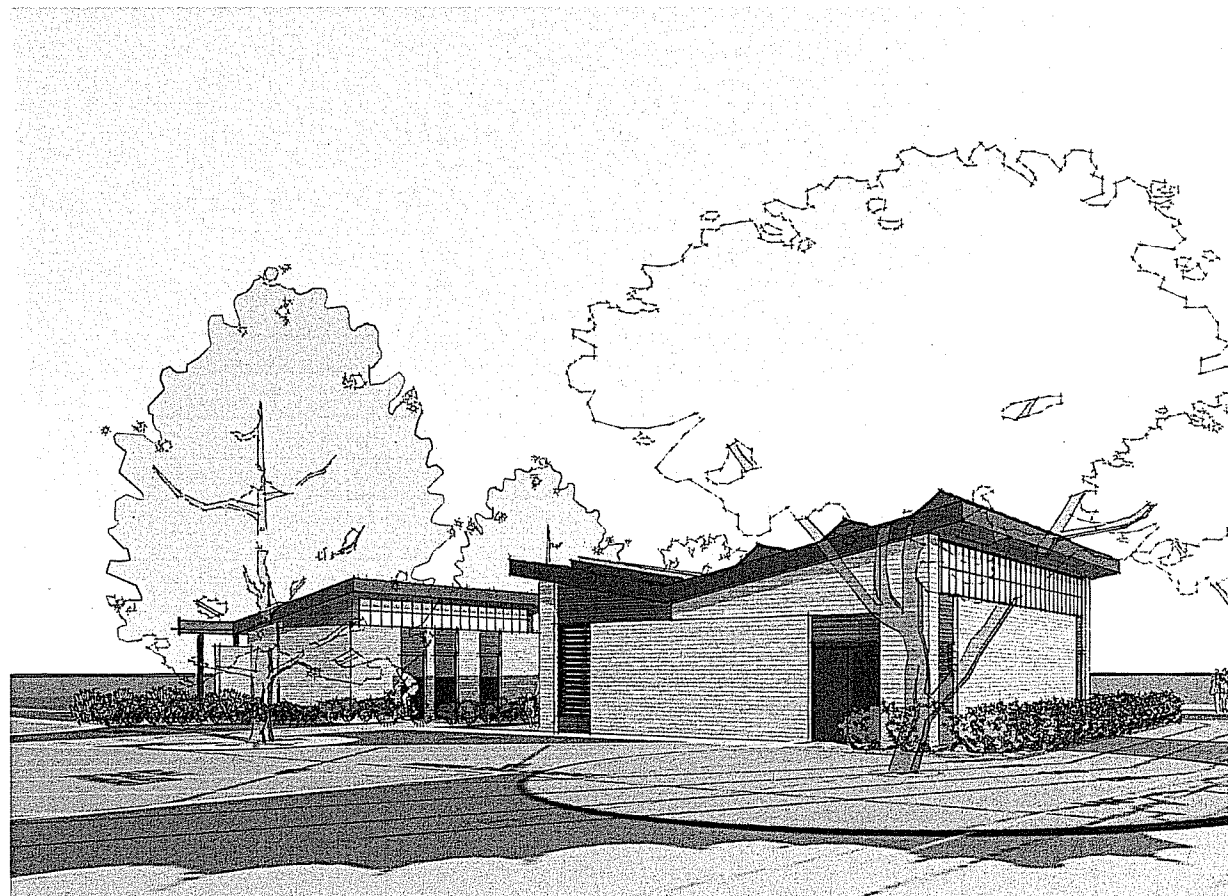
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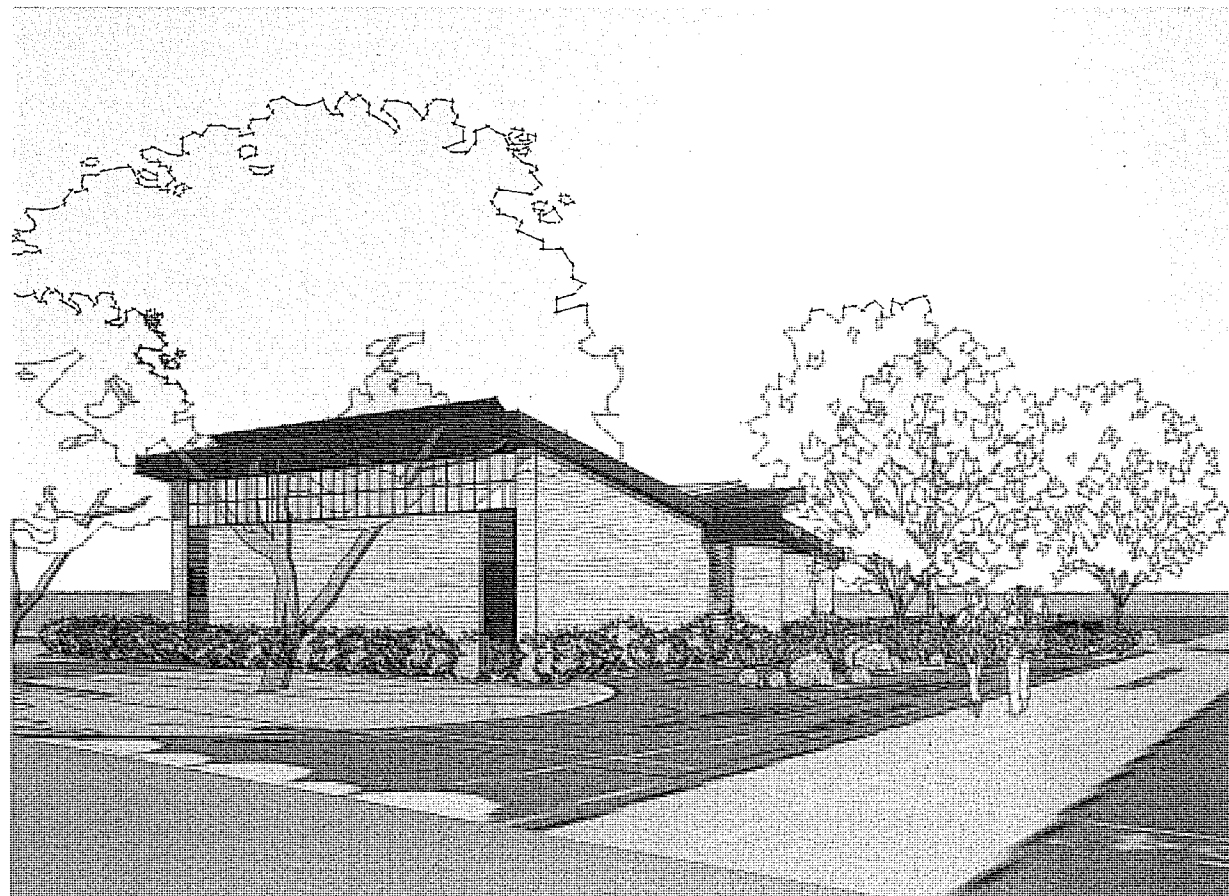
South-East Perspective



South-West Perspective



North-East Perspective

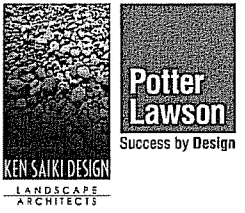


North-West Perspective

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CONSULTANTS

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NO.	DATE	DESCRIPTION
	12/16/2015	Land Use Submittal

PLAN SHEET DESIGNATION

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- G - GENERAL
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- P - PLUMBING
- H - HVAC
- E - ELECTRICAL
- I - INSTRUMENTATION

PROJECT NO: 2015.04.00

SCALE: AS NOTED
 DRAWING DATE:
 DESIGNED BY: DOUG H
 DRAWN BY: ANDREW L
 CHECKED BY: DOUG H

CLIENT

**MADISON METROPOLITAN
 SEWERAGE DISTRICT
 MADISON, WISCONSIN**

Madison Metropolitan Sewerage District



**PUMPING STATION 15
 REHABILITATION**

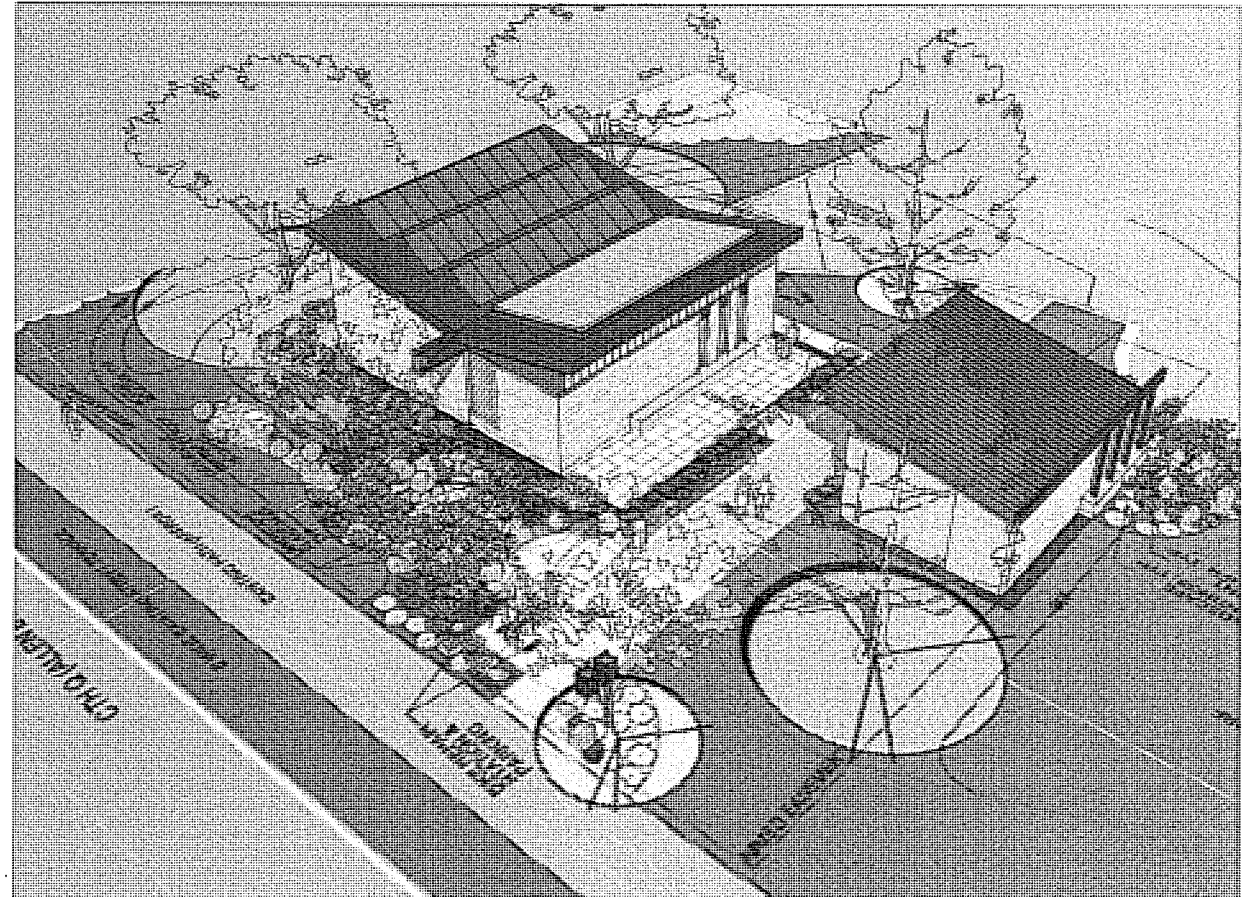
SHEET TITLE

Perspectives

A-04



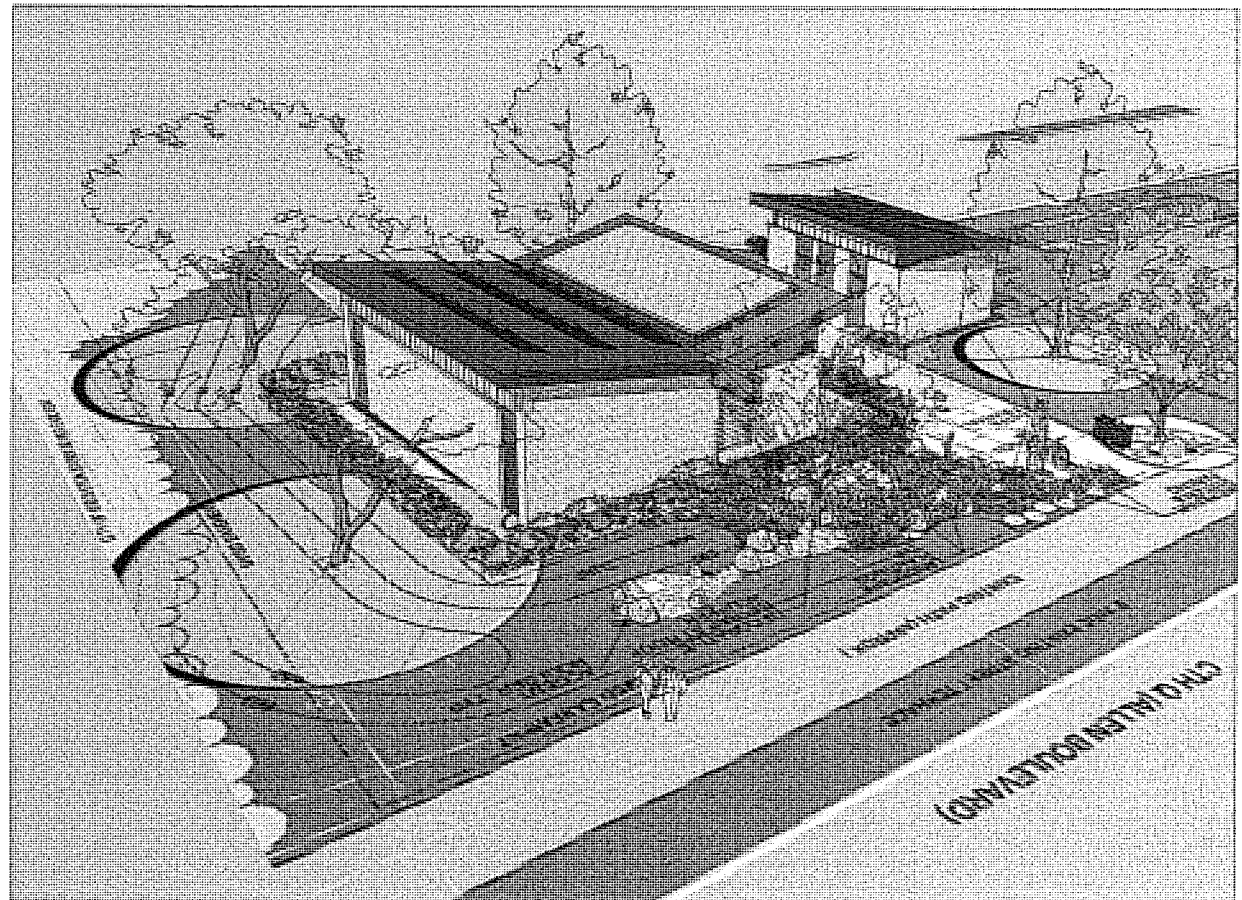
South-East Aerial



South-West Aerial



North-East Aerial



North-West Aerial

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CONSULTANTS

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**Potter
 Lawson**
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 LANDSCAPE
 ARCHITECTS

NO.	DATE	DESCRIPTION
	12/18/2015	Land Use Submittal

PLAN SHEET DESIGNATION

- C - COVER
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PROJECT NO:	2015.04.00
SCALE:	AS NOTED
DRAWING DATE:	
DESIGNED BY:	DOUG H
DRAWN BY:	ANDREW L
CHECKED BY:	DOUG H

CLIENT
**MADISON METROPOLITAN
 SEWERAGE DISTRICT
 MADISON, WISCONSIN**

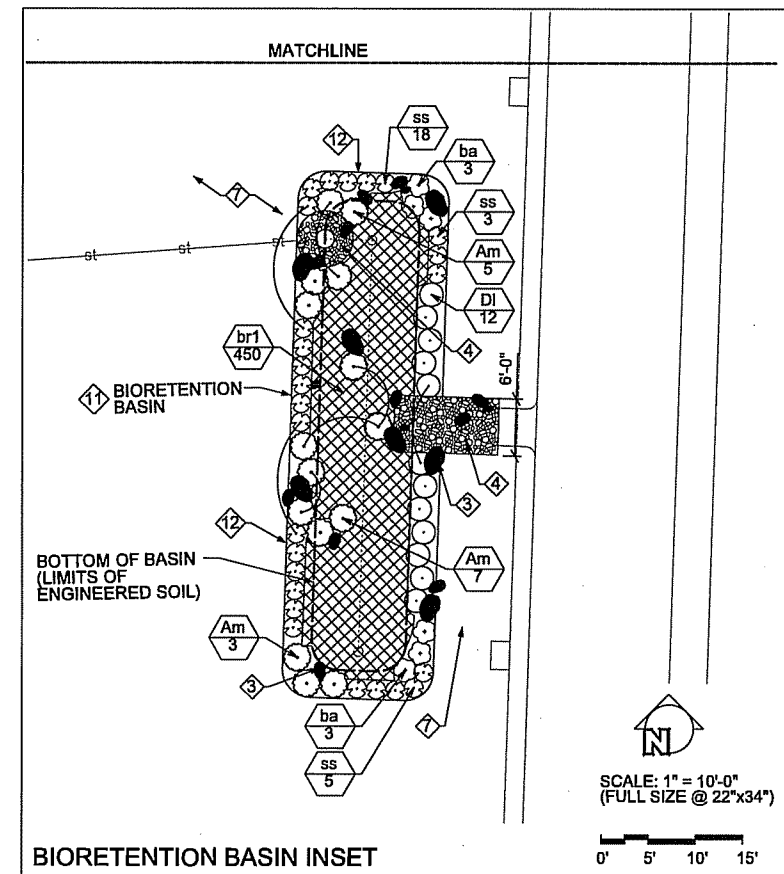
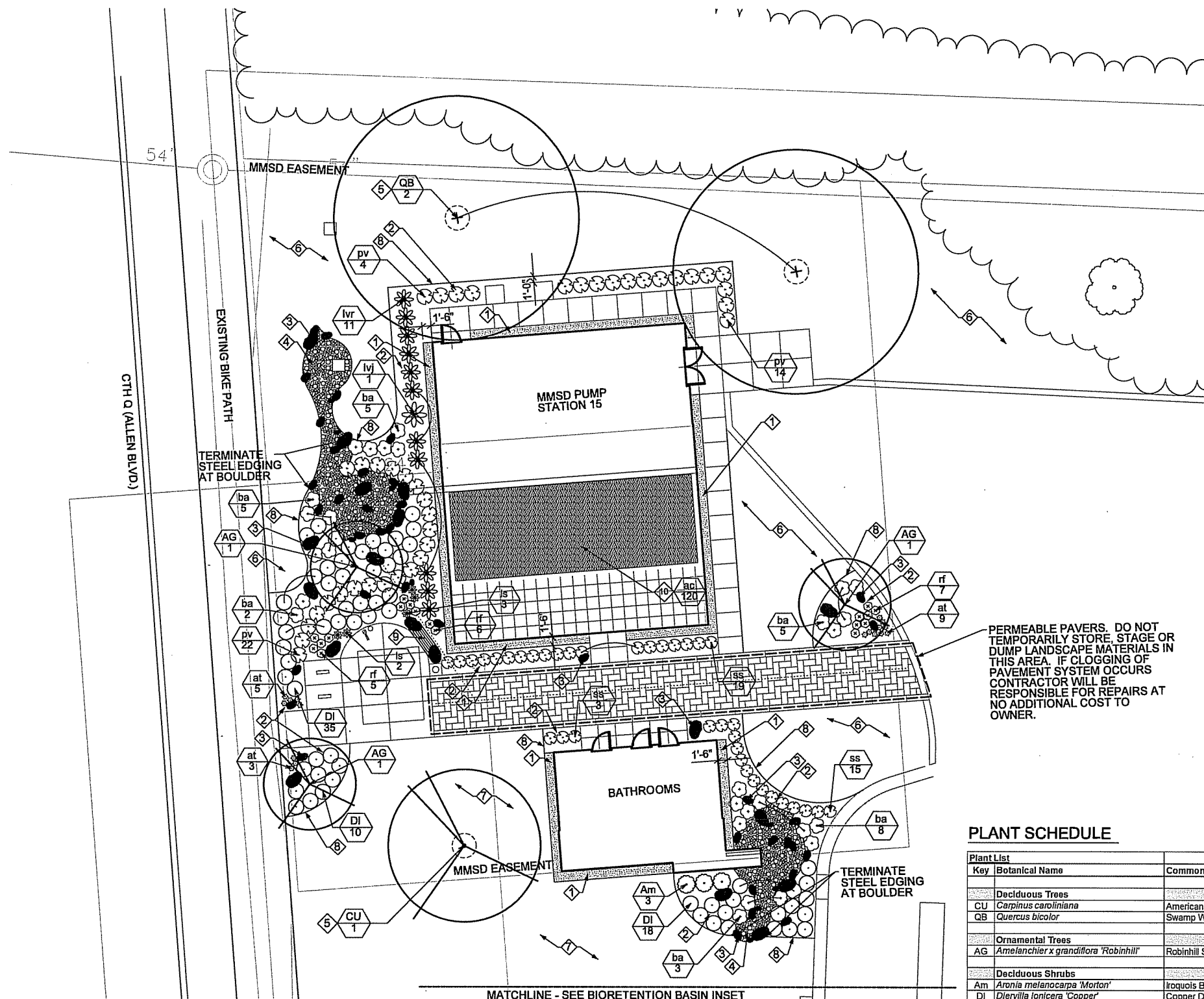
Madison Metropolitan Sewerage District

**PUMPING STATION 15
 REHABILITATION**

SHEET TITLE
Perspectives

A-05

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PERMEABLE PAVERS. DO NOT TEMPORARILY STORE, STAGE OR DUMP LANDSCAPE MATERIALS IN THIS AREA. IF CLOGGING OF PAVEMENT SYSTEM OCCURS CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS AT NO ADDITIONAL COST TO OWNER.

- LEGEND**
- ① MAINTENANCE EDGE, SEE DETAIL 2/L-2
 - ② SHREDDED HARDWOOD BARK MULCH
 - ③ ACCENT BOULDER, SEE DETAIL 4/L-2
 - ④ DECORATIVE COBBLES, SEE DETAIL 5/L-2
 - ⑤ SHREDDED HARDWOOD BARK MULCH RING AT BASE OF TREE, SEE DETAIL 1/L-2
 - ⑥ SEEDED NO-MOW FESCUE LAWN WITH EROSION CONTROL MAT
 - ⑦ SEEDED BLUEGRASS LAWN
 - ⑧ STEEL EDGING
 - ⑨ BENCH, SEE DETAIL 3/L-2
 - ⑩ EXTENSIVE GREEN ROOF - SEDUM TILE & PERENNIALS PER PLANT SCHEDULE
 - ⑪ JUTE MESH OVER SHREDDED HARDWOOD BARK MULCH (ENTIRE BIORETENTION BASIN)
 - ⑫ SHOVEL-CUT EDGING

PLANT SCHEDULE

Key	Botanical Name	Common Name	Quantity	Size	Root Condition	Comments
Deciduous Trees						
CU	<i>Carpinus caroliniana</i>	American Hornbeam	1	2" Cal.	B&B	Space Per Plans
QB	<i>Quercus bicolor</i>	Swamp White Oak	2	2" Cal.	B&B	Space Per Plans
Ornamental Trees						
AG	<i>Amelanchier x grandiflora 'Robinhill'</i>	Robinhill Serviceberry	3	6' Ht.	B&B	Multi-Stem Tree; Space Per Plans
Deciduous Shrubs						
Am	<i>Aronia melanocarpa 'Morton'</i>	Ingoquois Beauty Chokeberry	18	24" Ht.	Cont.	Space 3'-0" o.c.
DI	<i>Diervilla lonicera 'Copper'</i>	Copper Dwarf Bush Honeysuckle	75	24" Sprd.	Cont.	Space 2'-6" o.c.
lv	<i>Ilex verticillata 'Red Sprite'</i>	Red Sprite Winterberry	11	24" Ht.	Cont.	Space 2'-6" o.c.
M	<i>Ilex verticillata 'Jim Dandy'</i>	Jim Dandy Winterberry	1	24" Ht.	Cont.	Space Per Plans
Perennials/Grasses/Groundcovers						
at	<i>Allium tanguticum 'Summer Beauty'</i>	Summer Beauty Allium	17	#1	Cont.	Space 12" o.c.
ac	<i>Allium cernuum</i>	Nodding Onion	120	2" sq. x 3.5" deep min.	Plug	Space 12" o.c. mix randomly into green roof
ba	<i>Baptisia 'solar flare' Prairieblues</i>	Solar Flare False Indigo	34	#1	Cont.	Space 30" o.c.
ss	<i>Schizachyrium scoparium 'MinnblueA'</i>	Blue Heaven Little Bluestem	63	#1	Cont.	Space 24" o.c.
rf	<i>Rudbeckia fulgida 'Early Bird Gold'</i>	Early Bird Gold Coneflower	18	#1	Cont.	Space 18" o.c.
ls	<i>Liatris spicata 'Kobold'</i>	Kobold Spiked Gayfeather	5	#1	Cont.	Space 18" o.c.
pv	<i>Panicum virgatum 'Shenandoah'</i>	Shenandoah Switchgrass	40	#1	Cont.	Space 30" o.c.
Bioretention Area Mix						
br1	<i>Asclepias tuberosa</i>	Butterfly Weed	50	2" sq. x 5" deep min.	Plug	Mix evenly & Space 12" o.c.
	<i>Aquilegia canadensis</i>	Columbine	30	2" sq. x 5" deep min.	Plug	
	<i>Carex bicknellii</i>	Copper Shouldered Oval Sedge	170	2" sq. x 5" deep min.	Plug	
	<i>Carex bebbii</i>	Bebb's Oval Sedge	60	2" sq. x 5" deep min.	Plug	
	<i>Carex spregellii</i>	Long Beaked Sedge	55	2" sq. x 5" deep min.	Plug	
	<i>Carex vulpinoidea</i>	Brown Fox Sedge	55	2" sq. x 5" deep min.	Plug	
	<i>Rudbeckia speciosa sullivantii</i>	Showy Black-Eyed Susan	30	2" sq. x 5" deep min.	Plug	

GENERAL NOTES

- FIELD VERIFY ALL EXISTING AND PROPOSED SITE UTILITIES. CONTACT DIGGERS HOTLINE, CITY OF MADISON AND CITY OF MIDDLETON FOR UNDERGROUND UTILITY LOCATIONS. NOTIFY PROJECT REPRESENTATIVE OF ANY PROBLEMS.
- PROTECT ALL PAVEMENTS, CURBS, UTILITIES, AND OTHER SITE ELEMENTS DURING PLANTING OPERATIONS.
- SUBMIT TOPSOIL TESTING REQUIREMENTS PER SECTION 329113, SOIL PREPARATION.
- VERIFY THAT SPECIFIED PLANTING SOIL DEPTH IS PRESENT PRIOR TO PLANTING PER SECTION 329113, SOIL PREPARATION. NOTIFY PROJECT REPRESENTATIVE OF ANY PROBLEMS.
- LAYOUT, STAKE OR PAINT THE PROPOSED LOCATION OF ALL PLANTINGS FOR APPROVAL BY PROJECT REPRESENTATIVE PRIOR TO PLANTING.
- SPACE SHRUBS AND PERENNIALS PER PLANT SCHEDULE.
- ALL WRAPPINGS, WIRE BASKETS, BURLAP, TWINE AND OTHER MISCELLANEOUS MATERIAL SHALL BE REMOVED FROM ENTIRE ROOT BALL PRIOR TO INSTALLATION.
- ALL LAWN AREAS ADJACENT TO THE PROJECT SITE THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, UTILITY TRENCHING, ACCESS, OR MATERIALS STORAGE SHALL BE REPAIRED WITH SEED MIXES AS NOTED ON THE PLANS AND PER SECTION 32 92 00, TURF AND GRASSES.
- REPAIR TO ORIGINAL CONDITION ALL EXISTING VEGETATION NOTED TO REMAIN INCLUDING PLANTS, MULCH AND EDGING THAT HAVE BEEN DISTURBED BY CONSTRUCTION ACTIVITIES.
- ALL PLANTING BEDS TO RECEIVE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE NOTED.
- HOLD CENTER OF PERENNIAL PLANTINGS A MINIMUM OF 18" AND CENTER OF SHRUB PLANTINGS A MINIMUM OF 24" FROM BACK OF CURB/EDGE OF PAVEMENT.

CONSULTANTS

BAXTER & WOODMAN
Consulting Engineers

Potter Lawson
Success by Design

KEN SAKRI DESIGN
LANDSCAPE ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION
1	12/18/2015	LAND USE SUBMITTAL

PLAN SHEET DESIGNATION

COVER - GENERAL
 CIVIL - LANDSCAPING
 MECHANICAL - ARCHITECTURAL
 PLUMBING - STRUCTURAL
 ELECTRICAL - MECHANICAL
 INSTRUMENTATION - HVAC

PROJECT NO: 140963

SCALE: AS NOTED
 DRAWING DATE: 12/18/2015
 DESIGNED BY: NMS
 DRAWN BY: NMS
 CHECKED BY: NMS

CLIENT

MADISON METROPOLITAN SEWERAGE DISTRICT
MADISON, WISCONSIN

Madison Metropolitan Sewerage District

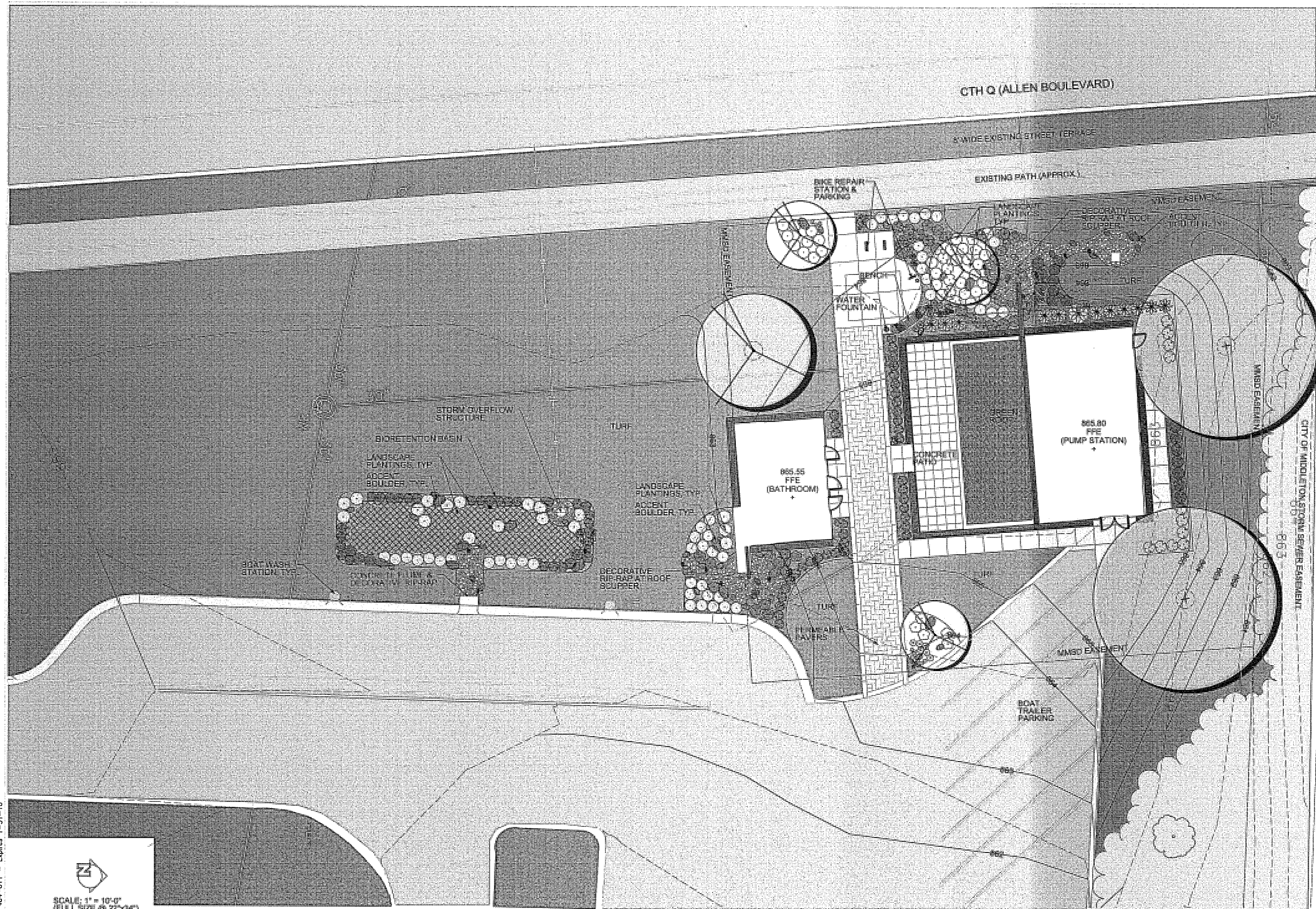
PUMPING STATION 15 REHABILITATION

SHEET TITLE
LANDSCAPE PLAN

L-01

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KEN SAIKI DESIGN
 LANDSCAPE ARCHITECTS

NO.	DATE	DESCRIPTION
	12/18/2015	LAND USE SUBMITTAL

PLAN SHEET DESIGNATION

COVER
0001 GENERAL
0002 CIVIL
0003 LANDSCAPING
0004 DEMOLITION
0005 ARCHITECTURAL
0006 STRUCTURAL
0007 MECHANICAL
0008 PLUMBING
0009 HVAC
0010 ELECTRICAL
0011 INSTRUMENTATION

PROJECT NO: 140963

SCALE: AS NOTED

DRAWING DATE: 12/18/2015

DESIGNED BY: NMS

DRAWN BY: NMS

CHECKED BY: NMS

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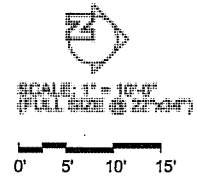
**MADISON METROPOLITAN
 SEWERAGE DISTRICT
 MADISON, WISCONSIN**

Madison Metropolitan Sewerage District

**PUMPING STATION 15
 REHABILITATION**

SHEET TITLE

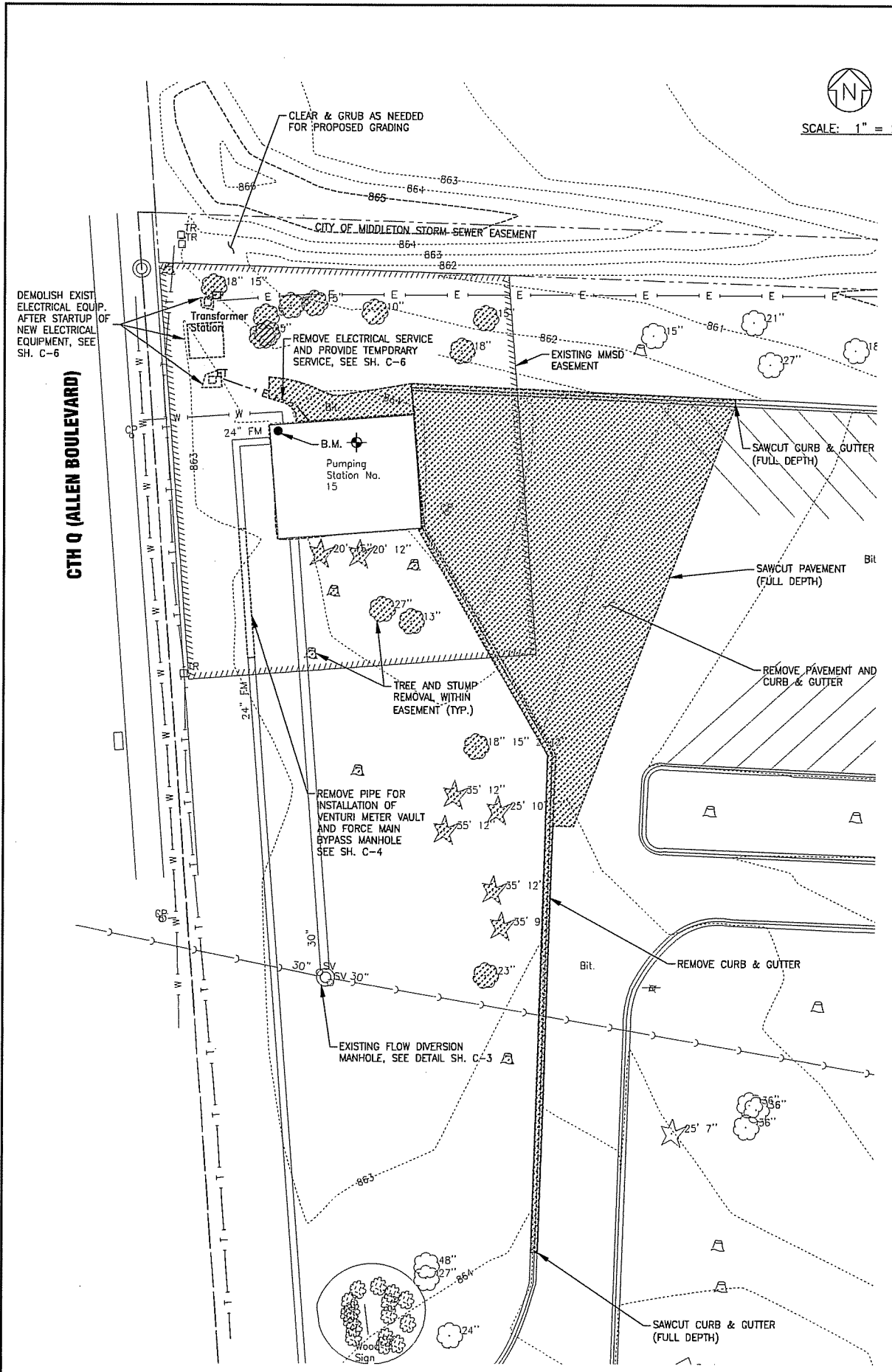
SITE RENDERING



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L-02

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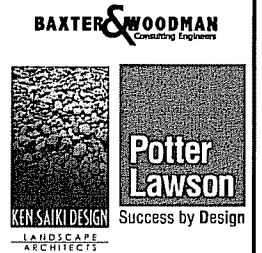
BENCHMARK

PUMPING STATION 15 BENCHMARK:
 ON NORTHWEST CORNER OF PUMPING STATION 15 FOR MMSD AT MARSHALL PARK
 ON ALLEN BOULEVARD - EL. 865.25'

NOTES:

1. REFER TO CONSTRUCTION SEQUENCE IN SECTION 01 31 14 FOR SPECIFIC DEMOLITION REQUIREMENTS.
2. STRIP TOPSOIL AND STOCKPILE IN ACCORDANCE WITH SECTION 31 16 00 FOR AREAS TO BE IMPROVED (NOT SHOWN). FOLLOW SCHEDULE INCLUDED IN SECTION 01 14 15 PUMPING STATION OPERATION DURING CONSTRUCTION.

CONSULTANTS



NO.	DATE	DESCRIPTION
	12/18/15	LAND USE SUBMITTAL
** - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING		

PLAN SHEET DESIGNATION

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E	ELECTRICAL
I	INSTRUMENTATION

PROJECT NO:	140963
SCALE:	AS NOTED
DRAWING DATE:	
DESIGNED BY:	JWM
DRAWN BY:	TLB
CHECKED BY:	JEK

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**MADISON METROPOLITAN
 SEWERAGE DISTRICT
 MADISON, WISCONSIN**

Madison Metropolitan Sewerage District

**PUMPING STATION 15
 REHABILITATION**

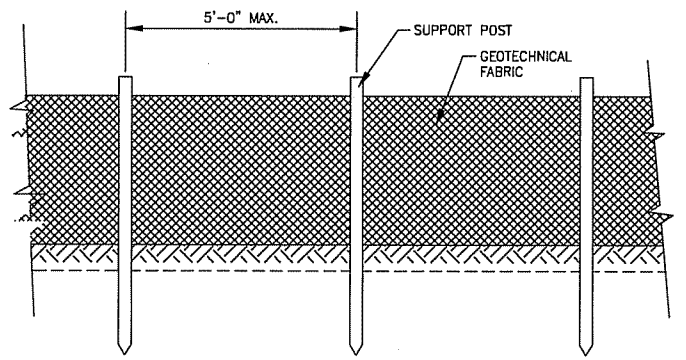
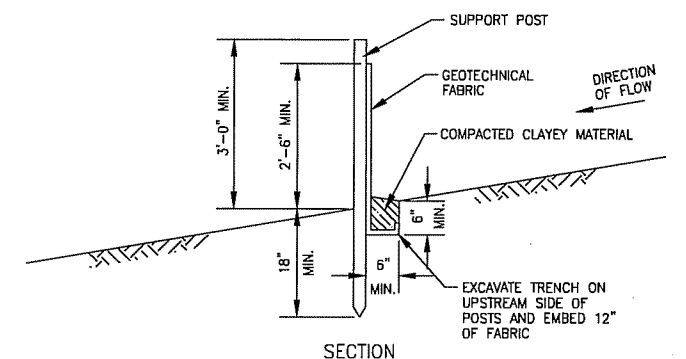
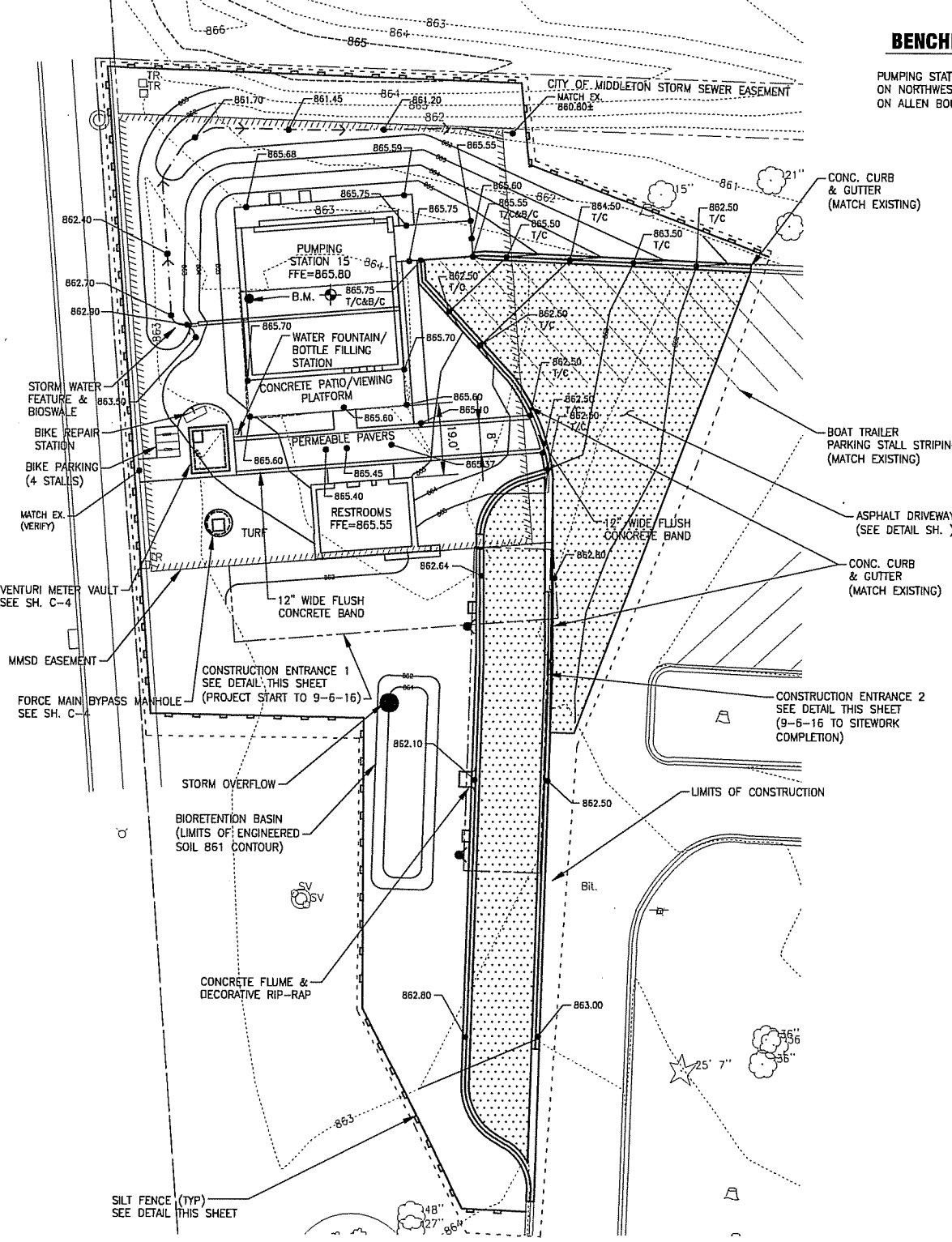
SHEET TITLE
DEMOLITION SITE PLAN

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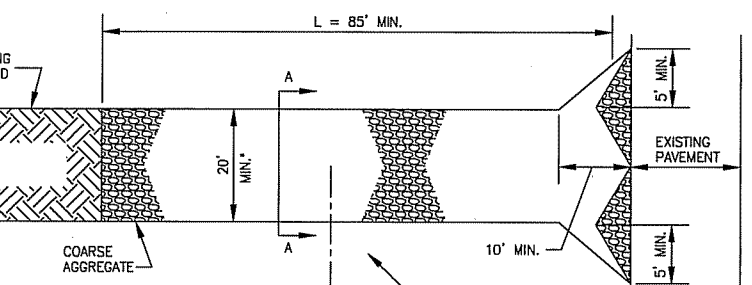
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BENCHMARK

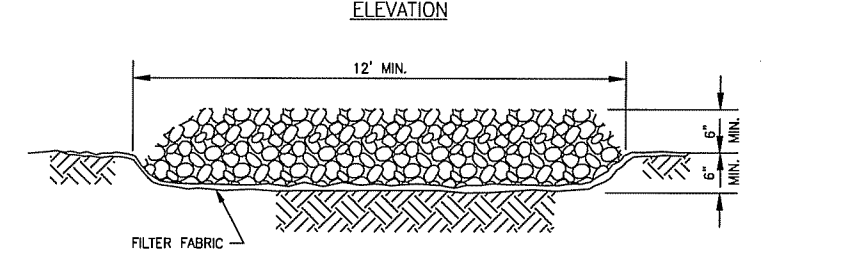
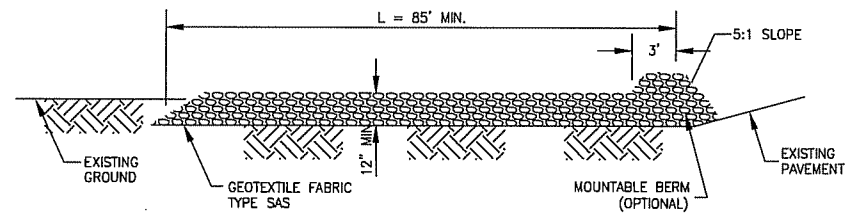
PUMPING STATION 15 BENCHMARK:
 ON NORTHWEST CORNER OF PUMPING STATION 15 FOR MMSD AT MARSHALL PARK
 ON ALLEN BOULEVARD - EL. 865.25'



SILT FENCE DETAIL
 NO SCALE



PLAN



STABILIZED CONSTRUCTION ENTRANCE
 SCALE: NONE

SEDIMENTATION AND EROSION CONTROL NOTES

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
- TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 15 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN 15 DAYS AFTER COMPLETION OF FINAL GRADING OF THE SOIL.
- ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.

CONSULTANTS
BAXTER & WOODMAN
 Consulting Engineers
Potter Lawson
 LANDSCAPE ARCHITECTS
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NO.	DATE	DESCRIPTION
	12/18/15	LAND USE SUBMITTAL

NO. DATE DESCRIPTION
 12/18/15 LAND USE SUBMITTAL

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING

PLAN SHEET DESIGNATION

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P	PLUMBING
H	HVAC
E	ELECTRICAL
I	INSTRUMENTATION

PROJECT NO: 140963
 SCALE: AS NOTED
 DRAWING DATE:
 DESIGNED BY: JWM
 DRAWN BY: TLB
 CHECKED BY: JEK

CLIENT
MADISON METROPOLITAN SEWERAGE DISTRICT
MADISON, WISCONSIN

Madison Metropolitan Sewerage District
PUMPING STATION 15 REHABILITATION

SHEET TITLE
SITE PLAN & EROSION CONTROL PLAN

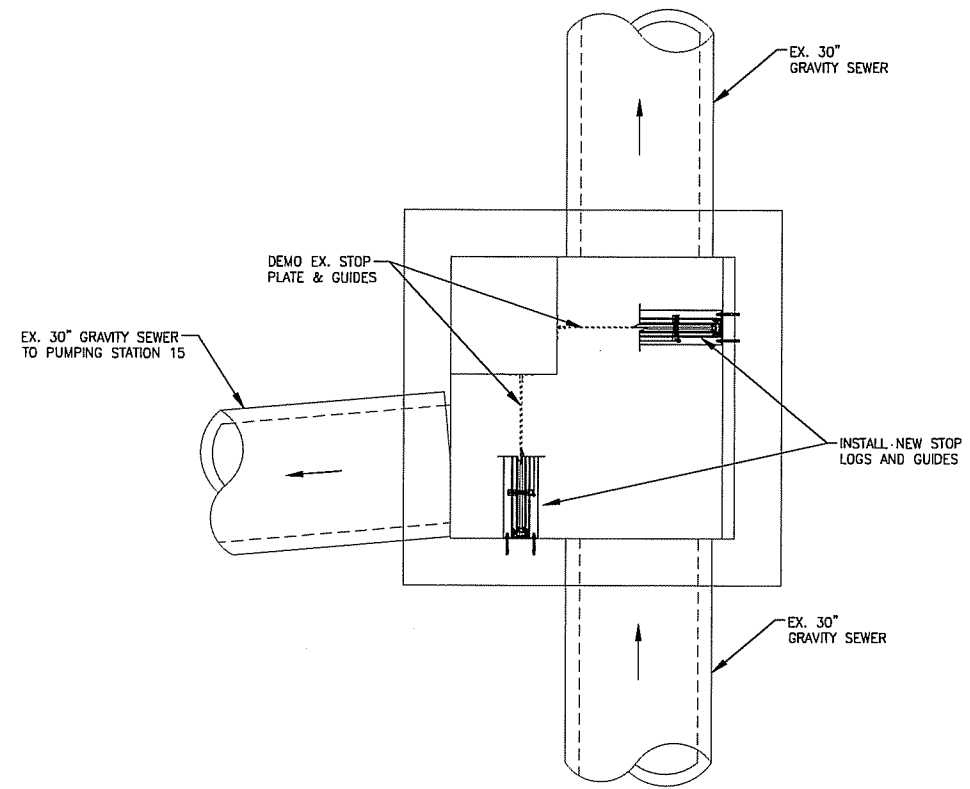
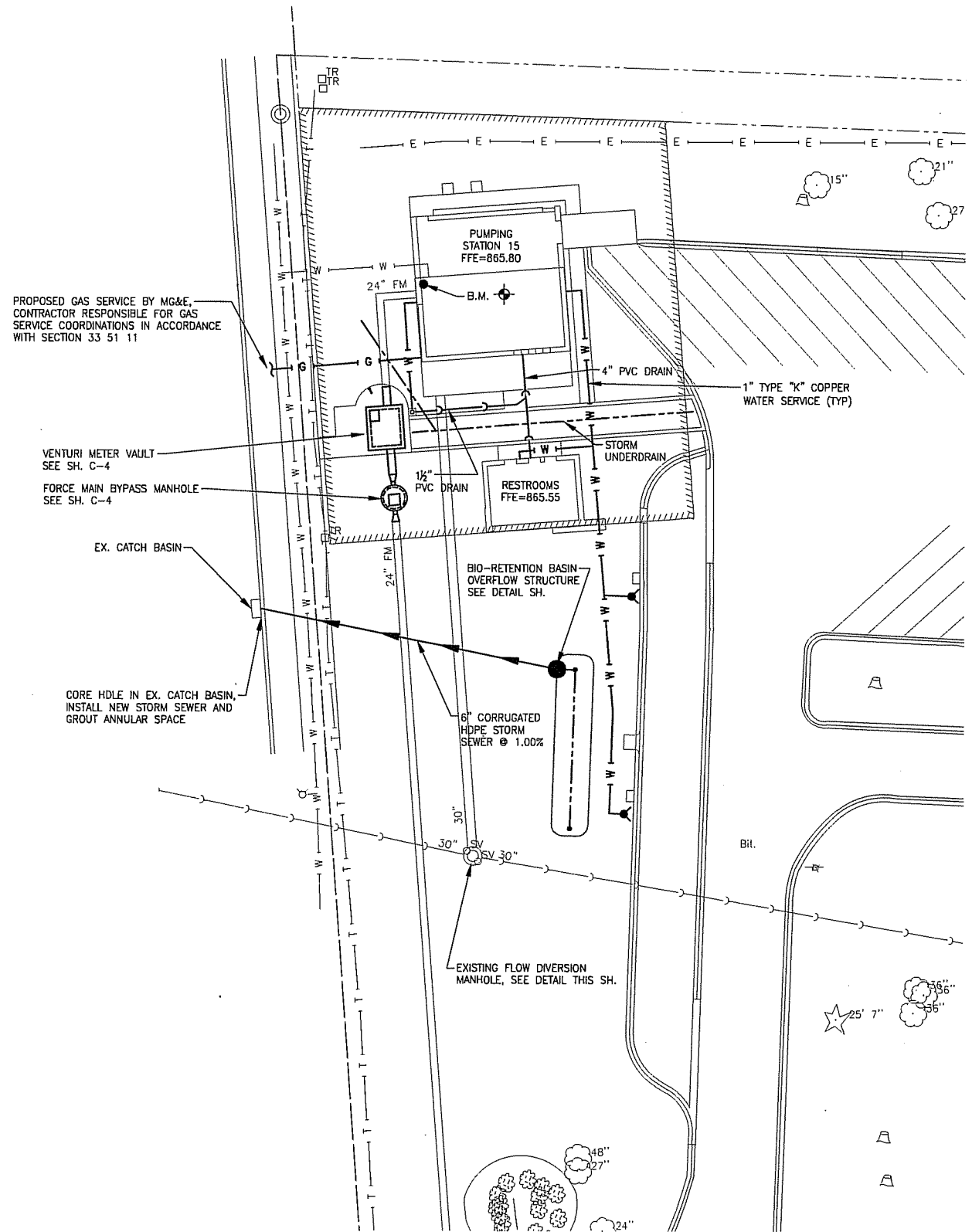
NOT FOR BIDDING



SCALE: 1" = 20'

BENCHMARK

PUMPING STATION 15 BENCHMARK:
ON NORTHWEST CORNER OF PUMPING STATION 15 FOR MMSD AT MARSHALL PARK
ON ALLEN BOULEVARD - EL. 865.25'



NOTE:
INSTALLATION OF NEW STOP LOGS AND GUIDES MUST BE DONE UNDER ACTIVE FLOW CONDITIONS, PREFERABLY DURING PERIODS OF LOW FLOW. CONTRACTOR IS RESPONSIBLE FOR FLOW DIVERSION WITHIN THE STRUCTURE AS NEEDED TO COMPLETE THE WORK

EXISTING FLOW DIVERSION MANHOLE

SCALE: 1/2" = 1'-0"



I:\BURLINGTON\MMSD\140963-PS 15\CADD\DRAWINGS\DWG\40 - CURRENT\140963 - TOPO - C3D 2012.DWG SITE PIPING PLAN
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CONSULTANTS

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KEN SAIKI DESIGN
LANDSCAPE ARCHITECTS

NO.	DATE	DESCRIPTION
	12/18/15	LAND USE SUBMITTAL

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING

PLAN SHEET DESIGNATION

COVER
CIVIL
LANDSCAPING
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STRUCTURAL
MECHANICAL
PLUMBING
HVAC
ELECTRICAL
INSTRUMENTATION

PROJECT NO:	140963
SCALE:	AS NOTED
DRAWING DATE:	
DESIGNED BY:	JWM
DRAWN BY:	TLB
CHECKED BY:	JEK

**MADISON METROPOLITAN
SEWERAGE DISTRICT
MADISON, WISCONSIN**

Madison Metropolitan Sewerage District

**PUMPING STATION 15
REHABILITATION**

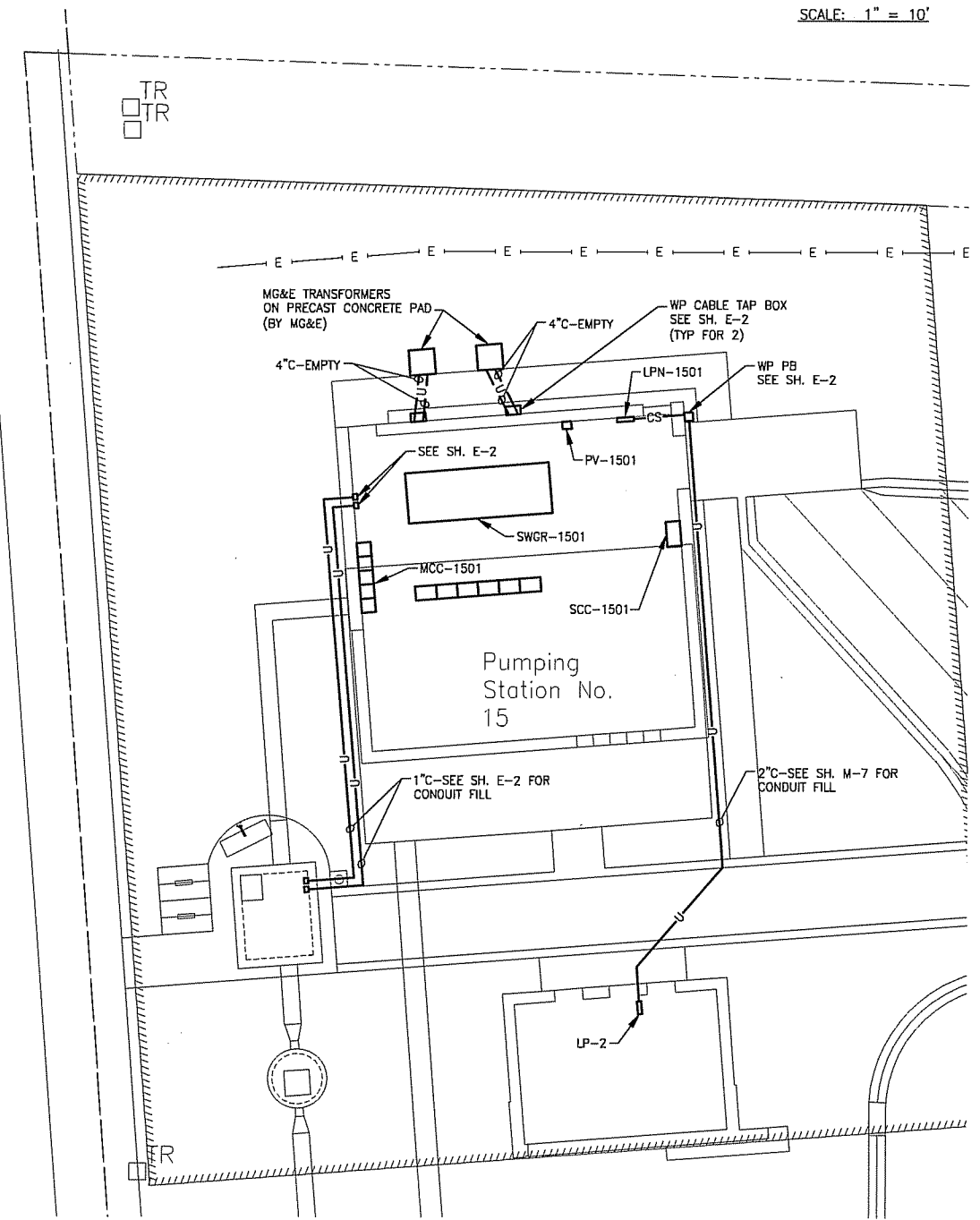
SHEET TITLE
MECHANICAL SITE PLAN

C-3
5 OF 59

NOT FOR BIDDING



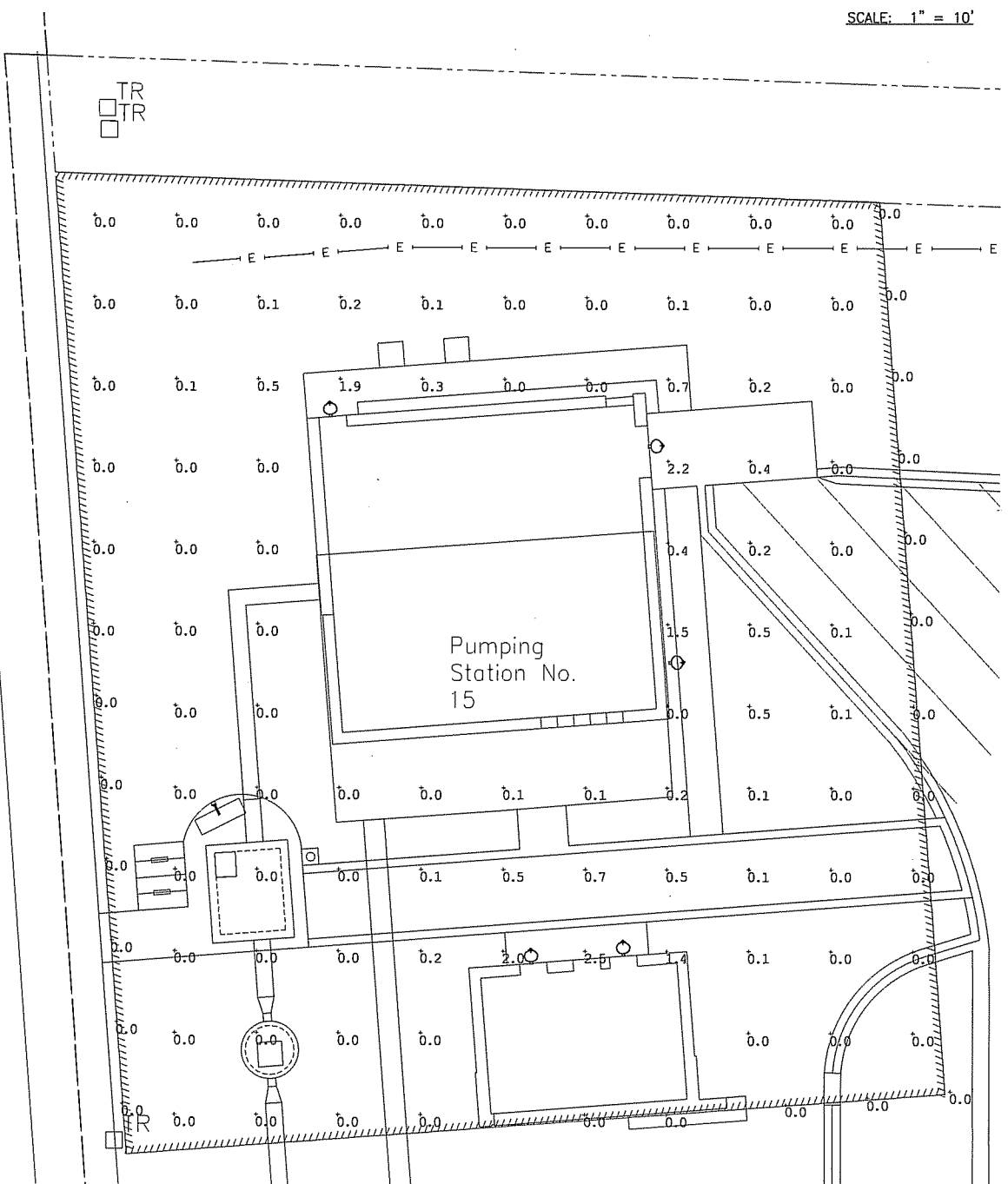
SCALE: 1" = 10'



ELECTRICAL SITE PLAN



SCALE: 1" = 10'



SITE LIGHTING CALCULATIONS

NOTE:
1. COORDINATE INSTALLATION OF NEW ELECTRICAL SERVICE WITH MG&E.

NOT FOR BIDDING

I:\BURLINGTON\MAMSD\140963-PS 15\CADD DRAWINGS\DWG 40 - CURRENT\140963 - TOPO - C3D 2012.DWG ELECTRICAL SITE PLAN
Plotted: 12/17/2015 3:58 PM By: 421TLB
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CONSULTANTS

BAXTER & WOODMAN
Consulting Engineers

**Potter
Lawson**
LANDSCAPE ARCHITECTS

KEN SAKI DESIGN
LANDSCAPE ARCHITECTS

NO.	DATE	DESCRIPTION
	12/18/15	LAND USE SUBMITTAL

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING

PLAN SHEET DESIGNATION

COVER	1
CIVIL	1
LANDSCAPING	1
DEMOLITION	1
ARCHITECTURAL	1
STRUCTURAL	1
MECHANICAL	1
PLUMBING	1
HVAC	1
ELECTRICAL	1
INSTRUMENTATION	1

PROJECT NO:	140963
SCALE:	AS NOTED
DRAWING DATE:	
DESIGNED BY:	ARH
DRAWN BY:	TLB
CHECKED BY:	JEK

**MADISON METROPOLITAN
SEWERAGE DISTRICT
MADISON, WISCONSIN**

Madison Metropolitan Sewerage District

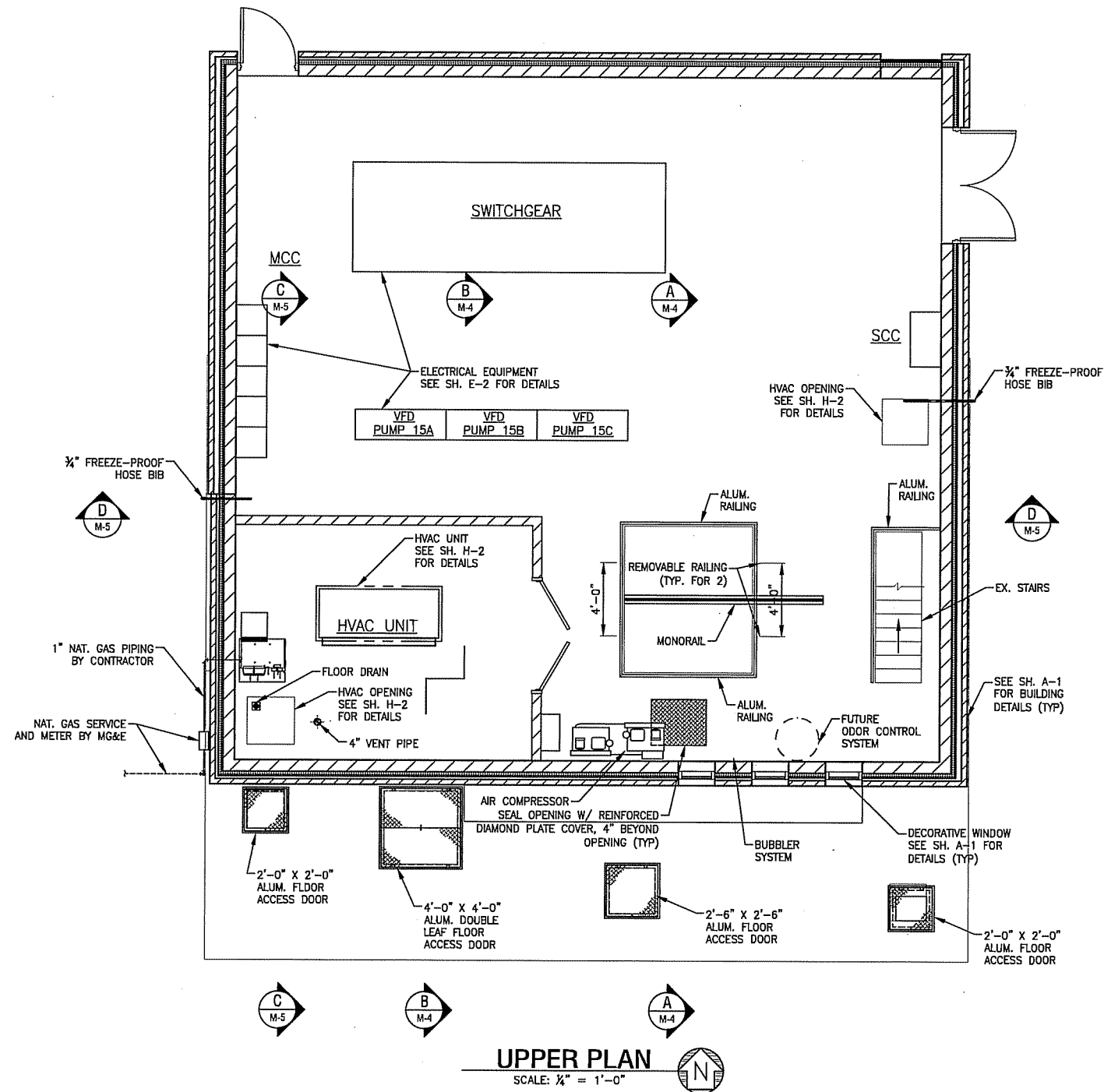
**PUMPING STATION 15
REHABILITATION**

SHEET TITLE

**ELECTRICAL SITE PLAN
AND SITE LIGHTING CALCULATIONS**

C-6
8 OF 59

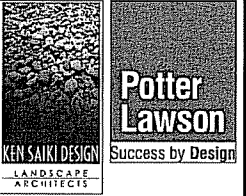
I:\BURLINGTON\MMSD\140963-PS 15\CADD\DRAWINGS\DWG\PUMPING STATION 15\SHEETS\UPPER PLAN - MECHANICAL.DWG 30 UPPER PLAN - MECHANICAL
 Plotted: 12/17/2015 3:48 PM By: 421TLB
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NOTE:
 ALL FLOOR ACCESS DOORS TO BE FLUSH
 WITH NEW CONCRETE FLOOR TOPPING.

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NO.	DATE	DESCRIPTION
	12/18/15	LAND USE SUBMITTAL

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWING

PLAN SHEET DESIGNATION

COVER	
GENERAL	
CIVIL	
LANDSCAPING	
DEMOLITION	
ARCHITECTURAL	
STRUCTURAL	
MECHANICAL	
PLUMBING	
HVAC	
ELECTRICAL	
INSTRUMENTATION	

PROJECT NO: 140963

SCALE: AS NOTED

DRAWING DATE:

DESIGNED BY: JWM

DRAWN BY: TLB

CHECKED BY: JEK

CLIENT

**MADISON METROPOLITAN
 SEWERAGE DISTRICT
 MADISON, WISCONSIN**

PUMPING STATION 15
 Madison Metropolitan Sewerage District

**PUMPING STATION 15
 REHABILITATION**

SHEET TITLE

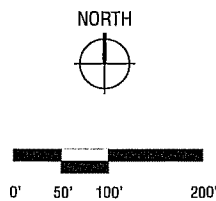
UPPER PLAN - MECHANICAL

M-3
 38 OF 59

NOT FOR BIDDING

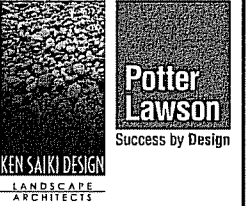


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NO.	DATE	DESCRIPTION
1	12/18/2015	Land Use Submittal

PLAN SHEET DESIGNATION

- COVER
- G - GENERAL
- GS - GRADING
- LS - LANDSCAPING
- PL - PLUMBING
- ME - MECHANICAL
- EL - ELECTRICAL
- IN - INSTRUMENTATION

PROJECT NO. 2015.04.06

SCALE: AS NOTED
 DRAWING DATE:
 DESIGNED BY: DOUG H
 DRAWN BY: ANDREW L
 CHECKED BY: DOUG H

CLIENT

**MADISON METROPOLITAN
SEWERAGE DISTRICT
MADISON, WISCONSIN**

Madison Metropolitan Sewerage District

**PUMPING STATION 15
REHABILITATION**

SHEET TITLE

Site Reference Plan

G-01