



Village of Menomonee Falls  
W156 N8480 Pilgrim Road  
Menomonee Falls, WI 53051-3140  
Telephone: (262) 532-4200

## STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section 31 SE Name of Business/Subdivision VMF  
Property Tax ID Number 0124999 Address of Property N49W21020 RIVER RD  
MENOMONEE FALLS, WI 53051

|          |   |
|----------|---|
| Dry Pond |   |
| Wet Pond |   |
| Other    | X |

Description: SWP31S002  
NO ORIGINAL DESIGN CALCS

Location Of Pond N49W21020 RIVER RD  
RAIN GARDEN

Year Pond Constructed 2012 Year of Last Certification N/A

| Compliance Verification        | Design (Non-AsBuilt) | Actual (GPS) | Compliant Yes | No | Comments (Condition of Structure)                                   |
|--------------------------------|----------------------|--------------|---------------|----|---------------------------------------------------------------------|
| <b>Primary Outlet Pipe</b>     |                      |              |               |    | Outlet Pipe Material                                                |
| Opening Diameter (inches)      | -                    | -            | -             | -  | ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY |
| Upstream Invert                | -                    | -            | -             | -  |                                                                     |
| Downstream Invert              | -                    | -            | -             | -  |                                                                     |
| Length (feet)                  | -                    | -            | -             | -  |                                                                     |
| Slope (%)                      | -                    | -            | -             | -  |                                                                     |
| <b>Secondary Outlet Pipe</b>   |                      |              |               |    | Outlet Pipe Material                                                |
| Opening Diameter (inches)      | -                    | -            | -             | -  |                                                                     |
| Upstream Invert                | -                    | -            | -             | -  |                                                                     |
| Downstream Invert              | -                    | -            | -             | -  |                                                                     |
| Length (feet)                  | -                    | -            | -             | -  |                                                                     |
| Slope (%)                      | -                    | -            | -             | -  |                                                                     |
| <b>Riser</b>                   |                      |              |               |    | Riser Material                                                      |
| Opening Diameter (inches)      | -                    | -            | -             | -  |                                                                     |
| Elevation                      | -                    | -            | -             | -  |                                                                     |
| <b>Upper Discharge Control</b> |                      |              |               |    |                                                                     |
| Opening Diameter (inches)      | -                    | -            | -             | -  |                                                                     |
| Elevation                      | -                    | -            | -             | -  |                                                                     |
|                                |                      |              |               |    |                                                                     |

| Compliance Verification                                | Design                  | Actual          | Compliant<br>Yes No               |   | Comments          |                                                                                 |
|--------------------------------------------------------|-------------------------|-----------------|-----------------------------------|---|-------------------|---------------------------------------------------------------------------------|
| <b>Lower Discharge Control</b>                         |                         |                 |                                   |   |                   |                                                                                 |
| Opening Diameter (inches)                              | -                       | -               | -                                 | - |                   |                                                                                 |
| Elevation                                              | -                       | -               | -                                 | - |                   |                                                                                 |
| <b>Other (Description)</b>                             |                         |                 |                                   |   |                   |                                                                                 |
| Opening Type and Size (inches)                         | -                       | -               | -                                 | - |                   |                                                                                 |
| Elevation                                              | -                       | -               | -                                 | - |                   |                                                                                 |
| <b>Emergency Spillway</b>                              |                         |                 |                                   |   |                   |                                                                                 |
| Elevation                                              | -                       | 831.98          | -                                 | - |                   |                                                                                 |
| Length of spillway (feet)                              | -                       | 3.5 FT          | -                                 | - |                   |                                                                                 |
| <b>Embankment</b>                                      | Present<br>Yes No       |                 | Comments/Maintenance Requirements |   |                   |                                                                                 |
| Unauthorized Plantings, trees, or woody vegetation     | -                       | N               |                                   |   |                   |                                                                                 |
| Animal burrows or slope erosion or hole                | -                       | N               |                                   |   |                   |                                                                                 |
| <b>Storm Sewer Outfalls</b>                            | Type & Size             |                 | Location                          |   | Comments          |                                                                                 |
| Outfall 1                                              | -                       |                 |                                   |   |                   |                                                                                 |
| Outfall 2                                              | -                       |                 |                                   |   |                   |                                                                                 |
| Outfall 3                                              | -                       |                 |                                   |   |                   |                                                                                 |
| <b>Storage Properties</b>                              | Design<br>(NON-ASBUILT) | Actual<br>(GPS) | Compliant<br>Yes No               |   | Not<br>Applicable | Equipment Used                                                                  |
| Normal Water Elevation (Wet Ponds)                     | -                       | N/A             | -                                 | - | N/A               | GPS EQUIPMENT:<br>SOKKIA GSR2700ISX &<br>CARLSON SURVEYOR+<br>WITH SURV CE v3.2 |
| Design High Water Elevation                            | -                       | 832.20          | -                                 | - |                   |                                                                                 |
| Area at Normal Water Elevation (Ac) (Wet Ponds)        | -                       | N/A             | -                                 | - | N/A               |                                                                                 |
| Area at Design High Water Elevation (Ac)               | -                       | 0.035 AC        | -                                 | - |                   |                                                                                 |
| Active Storage Available (Ac-Ft)*                      | -                       | 0.019 ACFT      | -                                 | - |                   |                                                                                 |
| Lowest Elevation at Top of Embankment (If Applicable)  | -                       | 831.96          | -                                 | - |                   |                                                                                 |
| Average Elevation at Top of Embankment (If Applicable) | -                       | 832.20          | -                                 | - |                   |                                                                                 |
| Maximum Bottom Elevation                               | -                       | 831.94          | -                                 | - |                   |                                                                                 |
| Average Pond Bottom Elevation                          | -                       | 831.96          | -                                 | - |                   |                                                                                 |
| Pond Bottom Area (Ac)                                  | -                       | 0.005 AC        | -                                 | - |                   |                                                                                 |
| Maximum Pond Depth                                     | -                       | 0.26FT          | -                                 | - |                   |                                                                                 |
| Average Pond Depth                                     | -                       | 0.24FT          | -                                 | - |                   |                                                                                 |
| Average Permanent Pool Depth (Wet Ponds)               | -                       | N/A             | -                                 | - | N/A               |                                                                                 |

\*To Determine Active Storage  $V = \left( \left( \frac{H}{3} \right) \left( A1 + A2 + \left( \left( A1 + A2 \right)^{\left( \frac{1}{2} \right)} \right) \right) \right)$

Wet Ponds Use  $H$  = Height of Section ,  $A1$  = area at normal water elevation,  $A2$  = area at top section

Dry Ponds Use  $H$  = Height of Section ,  $A1$  = pond bottom area,  $A2$  = area at top section

## Section 31/River Rd Rain Garden – SWP31S002

Overview (Looking SE)



Emergency Spillway (Looking SE)



Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

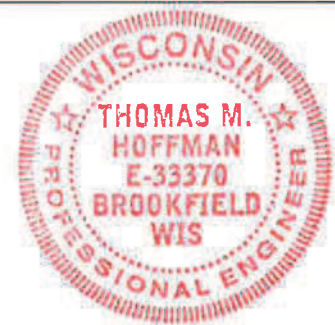
Inspection Firm: VILLAGE OF  
MENOMONEE FALLS  
Phone Number: 262-532-4411  
Address: W156N8480 PILGRIM RD  
MENOMONEE FALLS, WI  
53051

Inspector Name : CHRISTOPHER M GARIEPY

Inspection Date: 12/12/2014

Certifying  
Professional Name:  
Phone Number:

Thomas M Hoffman  
262-532-4415



Date:  
3/24/2015

Signature:  


Affix Seal Here



0 2 4 8 12 16 Feet  
1 inch = 15 feet

SWP31S002  
River Road Rain Garden - MNFV00124999  
2014 Pond Inspection 121214 CMG

MNFV0124999  
VILLAGE OF MENOMONEE FALLS  
N49W21020 RIVER RD

SWP03S005

123.4 13  
834.42

834.665609

RIVER RD

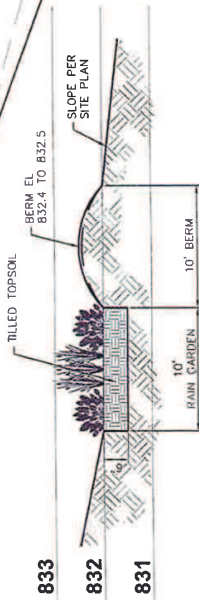
MNFV0124997005  
MATTHEW EADY  
W212N4978 WEYER RD

MNFV0124997010  
RICHARD A KENNEY  
N49W21097 RIVER RD

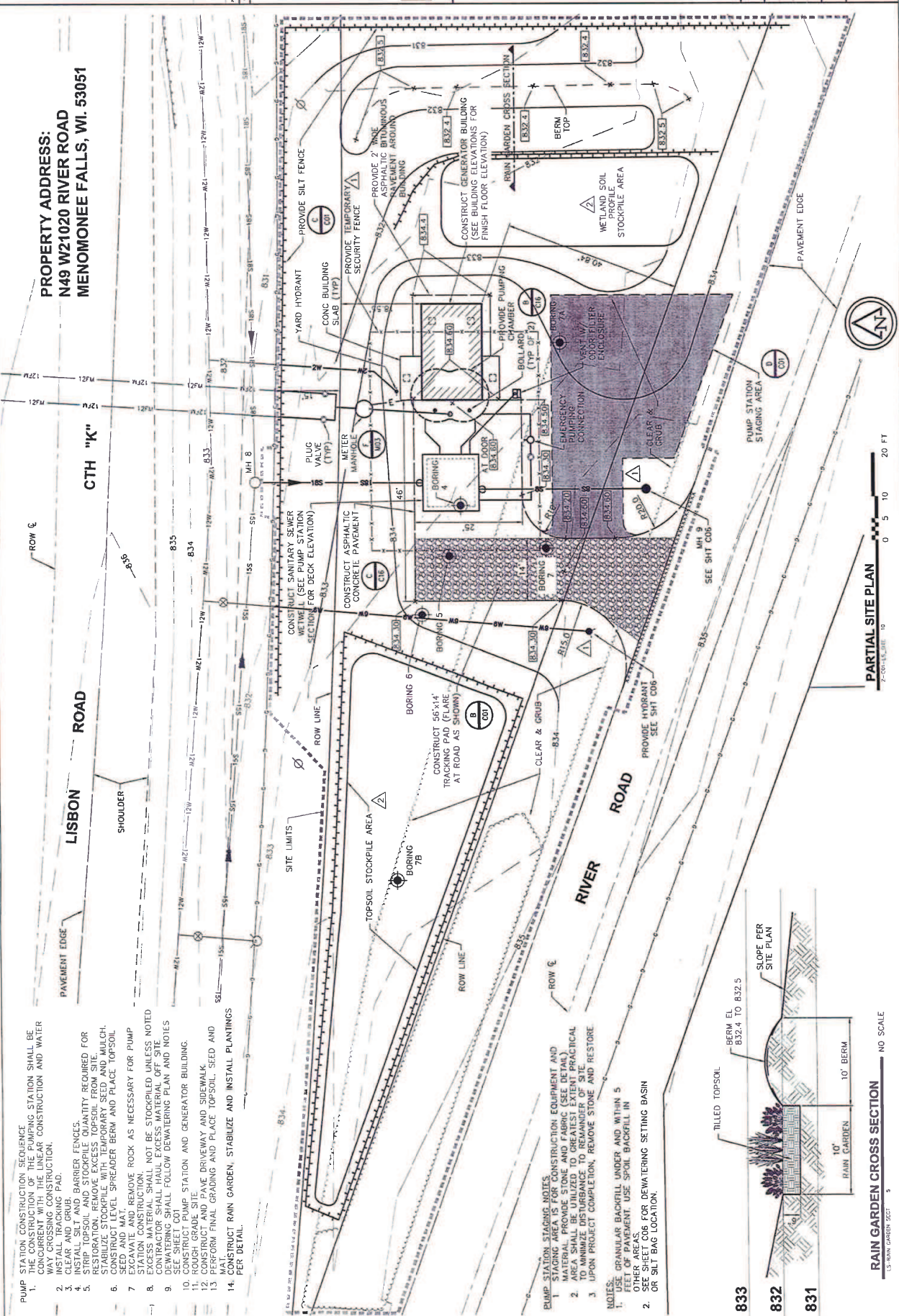


- PUMP STATION CONSTRUCTION SEQUENCE
1. THE CONSTRUCTION OF THE PUMP STATION SHALL BE CONCURRENT WITH THE LINEAR CONSTRUCTION AND WATER PROTECTION CONSTRUCTION.
  2. PROTECT EXISTING UTILITIES.
  3. INSTALL TRACKING PAD.
  4. CLEAR AND GRUB.
  5. INSTALL SILT AND BARRIER FENCES.
  6. STRIP TOPSOIL AND STOCKPILE QUANTITY REQUIRED FOR CONSTRUCTION OF THE PUMP STATION AND RAIN GARDEN. STABILIZE STOCKPILE WITH TEMPORARY SEED AND MULCH.
  7. CONSTRUCT LEVEL SPREADER BERM AND PLACE TOPSOIL.
  8. SEED AND MAT. REMOVE ROCK AS NECESSARY FOR PUMP EXCAVATION CONSTRUCTION.
  9. EXCESS MATERIAL SHALL NOT BE STOCKPILED UNLESS NOTED OTHERWISE.
  10. CONTRACTOR SHALL FOLLOW DEWATERING PLAN AND NOTES.
  11. DEWATERING SHALL FOLLOW DEWATERING PLAN AND NOTES.
  12. CONSTRUCT PUMP STATION AND GENERATOR BUILDING.
  13. CONSTRUCT RAIN GARDEN, STABILIZE AND INSTALL PLANTINGS PER DETAIL.
  14. CONSTRUCT RAIN GARDEN, STABILIZE AND INSTALL PLANTINGS PER DETAIL.

- PUMP STATION STAGING NOTES
1. PUMP STATION STAGING AREA IS FOR CONSTRUCTION EQUIPMENT AND MATERIAL. PROVIDE STONE AND FABRIC (SEE DETAIL).
  2. AREA SHALL BE UTILIZED TO GREATEST EXTENT PRACTICAL TO MINIMIZE DISTURBANCE TO REMAINDER OF SITE.
  3. UPON PROJECT COMPLETION, REMOVE STONE AND RESTORE.
- NOTES:
1. USE GRANULAR BACKFILL UNDER AND WITHIN 5 FEET OF PAVEMENT. USE SPOIL BACKFILL IN REMAINING AREAS.
  2. SEE SHEET C06 FOR DEWATERING SETTING BASIN OR SALT BAG LOCATION.



RAIN GARDEN CROSS SECTION  
NO SCALE



PROPERTY ADDRESS:  
N49 W21020 RIVER ROAD  
MENOMONEE FALLS, WI. 53051

CTH "K"

LISBON ROAD

RIVER ROAD

PARTIAL SITE PLAN  
2-00-16-01-10

0 5 10 20 FT



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**SECTION 31 PUMP STATION, FORCE MAIN,  
SANITARY SEWER AND WATER MAIN**  
PARTIAL PUMP STATION SITE PLAN  
VILLAGE OF MENOMONEE FALLS  
WAUKESHA COUNTY, WISCONSIN

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DESIGNED BY: DPA  
DRAWN BY: AC  
CHECKED BY: DPA  
DATE: MAR 20, 2011  
FILE NO:  
1182120.201  
SHEET NO:  
C14



