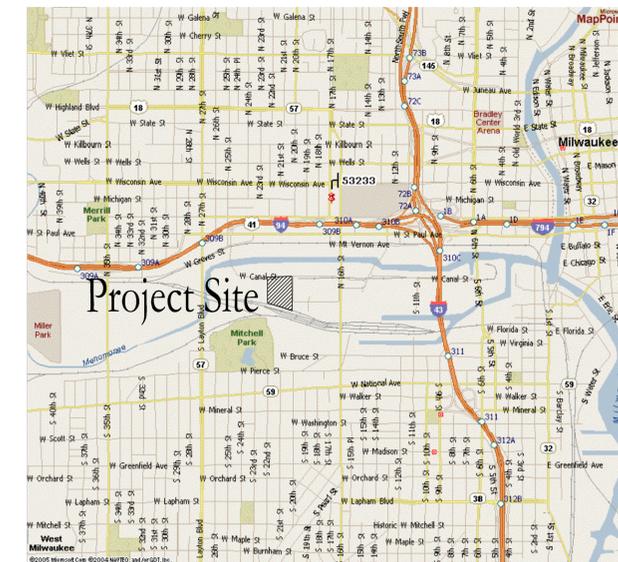


# FCPC BIOGAS GENERATION FACILITY

2301 WEST CANAL STREET  
MILWAUKEE, WISCONSIN

## DETAILED PLAN DEVELOPMENT

SHEET INDEX	
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DPD-2	ALTA/ACSM LAND TITLE SURVEY
DPD-3	PROPOSED PROJECT BOUNDARY DESCRIPTION
DPD-4	EXISTING FACILITIES SITE PLAN
DPD-5	PROPOSED BUILDING AND PARKING SITE PLAN
DPD-6.1	PROPOSED UTILITY PLAN
DPD-6.2	PROPOSED UTILITY PLAN
DPD-7	PROPOSED GRADING PLAN
DPD-8	PROPOSED LANDSCAPE PLAN
DPD-9.1	PROPOSED BUILDING ELEVATIONS GENERATION FACILITY EAST AND WEST ELEVATION
DPD-9.2	PROPOSED BUILDING ELEVATIONS GENERATION FACILITY NORTH AND SOUTH ELEVATIONS
DPD-10	PROPOSED SIGNAGE PLAN



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PRELIMINARY – NOT FOR CONSTRUCTION  
REVISION

BY	APVD



RENEWABLE ENERGY FACILITY  
FCPC RENEWABLE GENERATION, LLC  
MILWAUKEE, WISCONSIN

COVER SHEET

SHEET NO.	DPD-1
DWG NO.	
DATE	9-10-2012
PROJ NO.	W122172

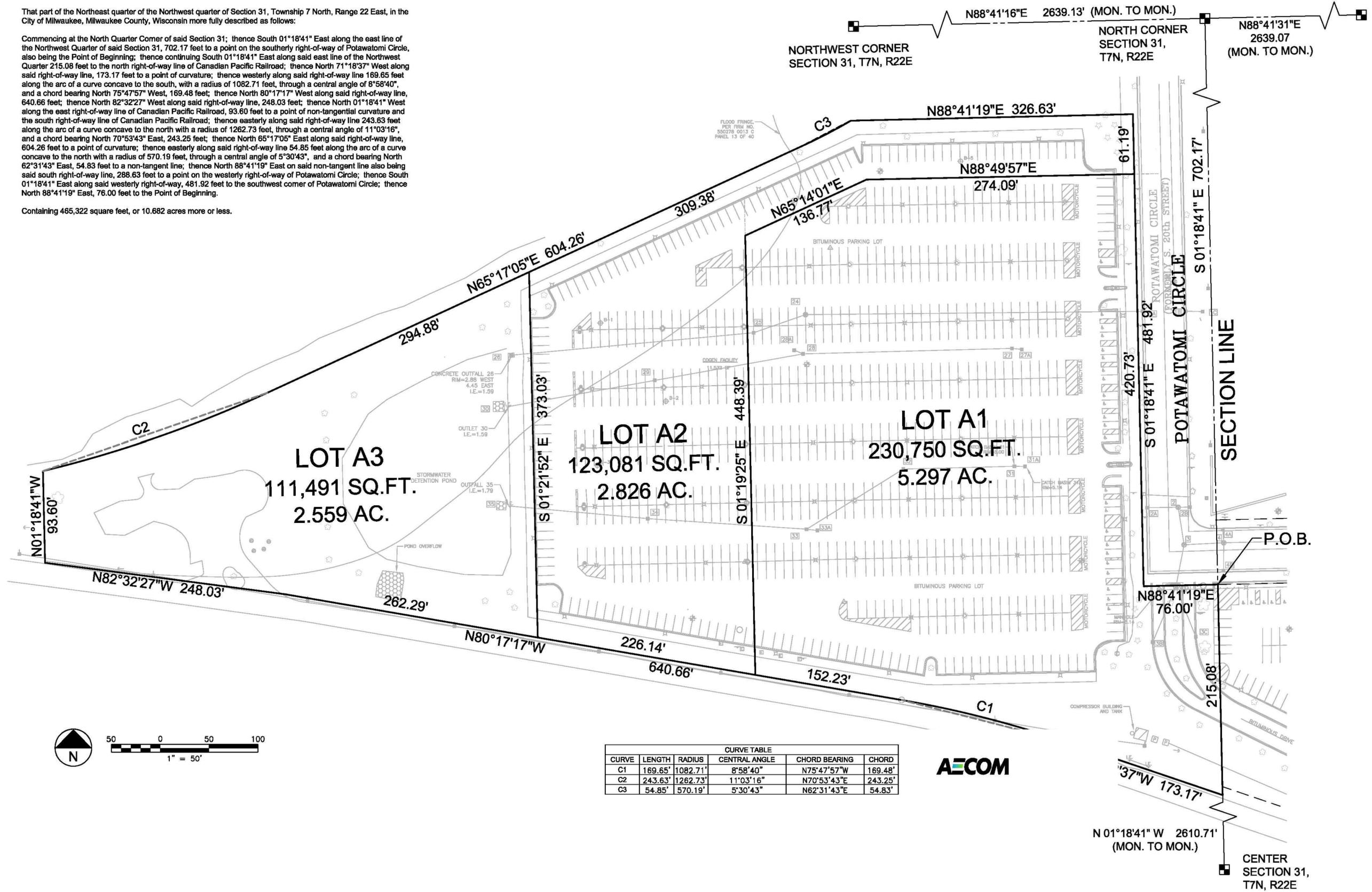


**POTAWATOMI DPD LEGAL DESCRIPTION**

That part of the Northeast quarter of the Northwest quarter of Section 31, Township 7 North, Range 22 East, in the City of Milwaukee, Milwaukee County, Wisconsin more fully described as follows:

Commencing at the North Quarter Corner of said Section 31; thence South 01°18'41" East along the east line of the Northwest Quarter of said Section 31, 702.17 feet to a point on the southerly right-of-way of Potawatomi Circle, also being the Point of Beginning; thence continuing South 01°18'41" East along said east line of the Northwest Quarter 215.08 feet to the north right-of-way line of Canadian Pacific Railroad; thence North 71°18'37" West along said right-of-way line, 173.17 feet to a point of curvature; thence westerly along said right-of-way line 169.85 feet along the arc of a curve concave to the south, with a radius of 1082.71 feet, through a central angle of 8°58'40", and a chord bearing North 75°47'57" West, 169.48 feet; thence North 80°17'17" West along said right-of-way line, 640.66 feet; thence North 82°32'27" West along said right-of-way line, 248.03 feet; thence North 01°18'41" West along the east right-of-way line of Canadian Pacific Railroad, 93.60 feet to a point of non-tangential curvature and the south right-of-way line of Canadian Pacific Railroad; thence easterly along said right-of-way line 243.83 feet along the arc of a curve concave to the north with a radius of 1262.73 feet, through a central angle of 11°03'16", and a chord bearing North 70°53'43" East, 243.25 feet; thence North 65°17'05" East along said right-of-way line, 604.26 feet to a point of curvature; thence easterly along said right-of-way line 54.85 feet along the arc of a curve concave to the north with a radius of 570.19 feet, through a central angle of 5°30'43", and a chord bearing North 62°31'43" East, 54.83 feet to a non-tangent line; thence North 88°41'19" East on said non-tangent line also being said south right-of-way line, 288.63 feet to a point on the westerly right-of-way of Potawatomi Circle; thence South 01°18'41" East along said westerly right-of-way, 481.92 feet to the southwest corner of Potawatomi Circle; thence North 88°41'19" East, 76.00 feet to the Point of Beginning.

Containing 465,322 square feet, or 10.682 acres more or less.



CURVE TABLE					
CURVE	LENGTH	RADIUS	CENTRAL ANGLE	CHORD BEARING	CHORD
C1	169.65'	1082.71'	8°58'40"	N75°47'57"W	169.48'
C2	243.63'	1262.73'	11°03'16"	N70°53'43"E	243.25'
C3	54.85'	570.19'	5°30'43"	N62°31'43"E	54.83'



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RENEWABLE ENERGY FACILITY  
 FCPC RENEWABLE GENERATION, LLC  
 MILWAUKEE, WISCONSIN

PROPOSED PROJECT BOUNDARY DESCRIPTION		SHEET NO. DPD-3
		DWG NO. --
		DATE 9-10-2012
		PROJ NO. W122172

**GENERAL NOTES**

1. THE BASE SURVEY WAS PREPARED BY AECOM IN 2011. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE THERETO.
2. ELEVATIONS ARE BASED ON CITY OF MILWAUKEE VERTICAL DATUM AND CAN BE CONVERTED TO NORTH AMERICAN VERTICAL DATUM 1929 BY ADDING 580.60.
3. HORIZONTAL DATUM IS BASED ON NORTH AMERICAN DATUM OF 1927.
4. EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.

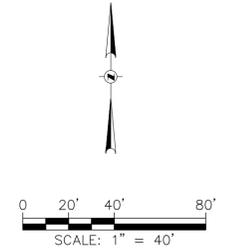
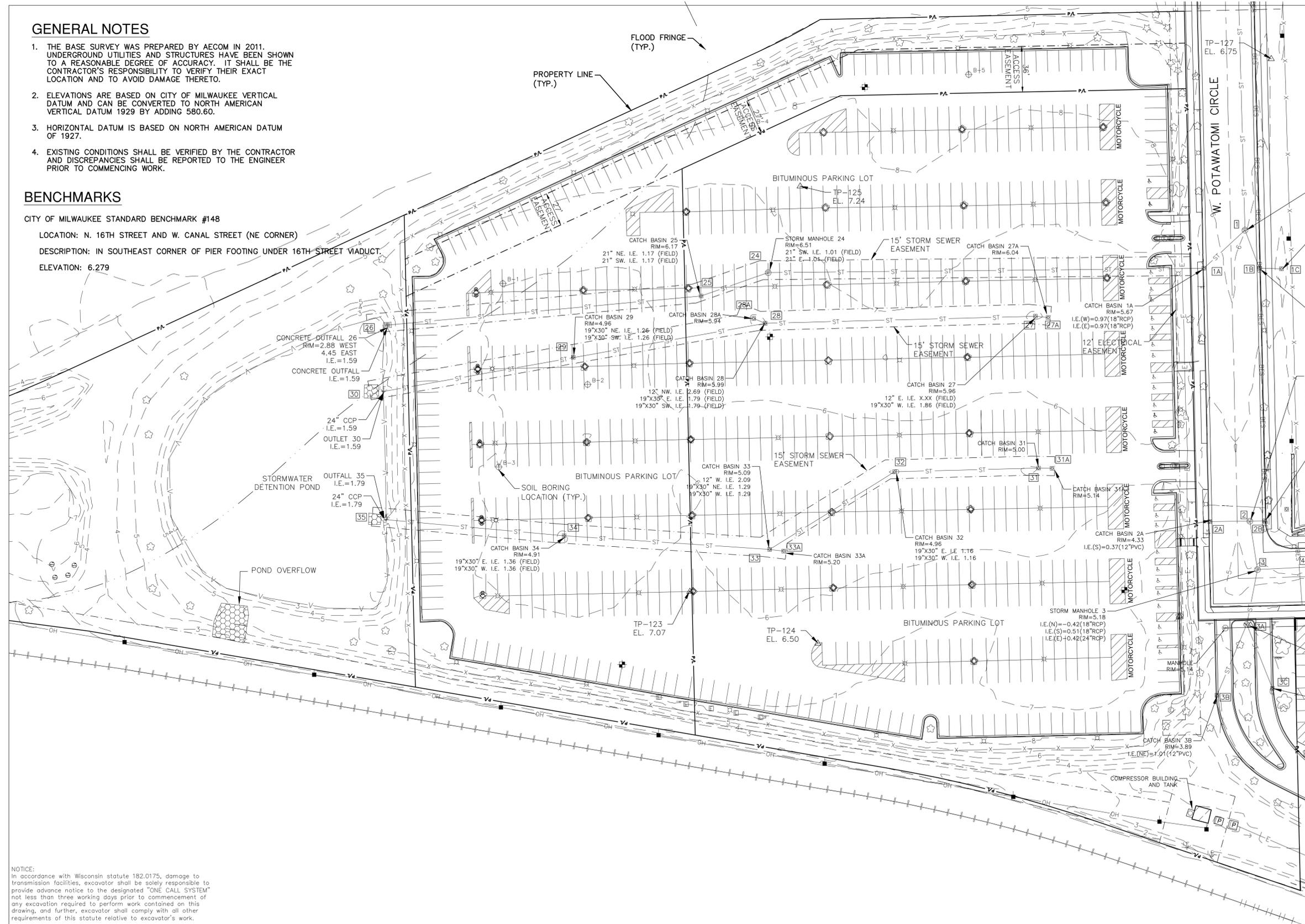
**BENCHMARKS**

CITY OF MILWAUKEE STANDARD BENCHMARK #148

LOCATION: N. 16TH STREET AND W. CANAL STREET (NE CORNER)

DESCRIPTION: IN SOUTHEAST CORNER OF PIER FOOTING UNDER 16TH STREET VIADUCT.

ELEVATION: 6.279



**SURVEY LEGEND**

- △ TRANSVERSE POINT
- ⊕ SOIL BORING
- ⊕ MONITORING WELL
- ⊕ POWER POLE
- ⊕ LIGHT POLE
- ⊕ MANHOLE
- ⊕ STORM INLET
- ⊕ ELECTRIC STRUCTURE
- ⊕ DECIDUOUS TREE
- ⊕ CATCH BASIN
- ⊕ SIGN
- ⊕ RIP RAP
- X—X— EXISTING FENCE
- E— BURIED ELECTRIC LINE
- OH— OVERHEAD ELECTRIC LINE
- ST— BURIED STORM SEWER
- PA— EXISTING PROPERTY LINE
- EAS— EXISTING EASEMENT
- RR— EXISTING RAILROAD TRACKS

**NOTICE:**  
In accordance with Wisconsin statute 182.0175, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

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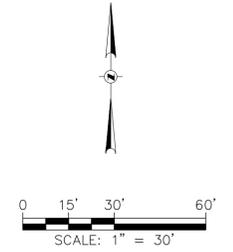
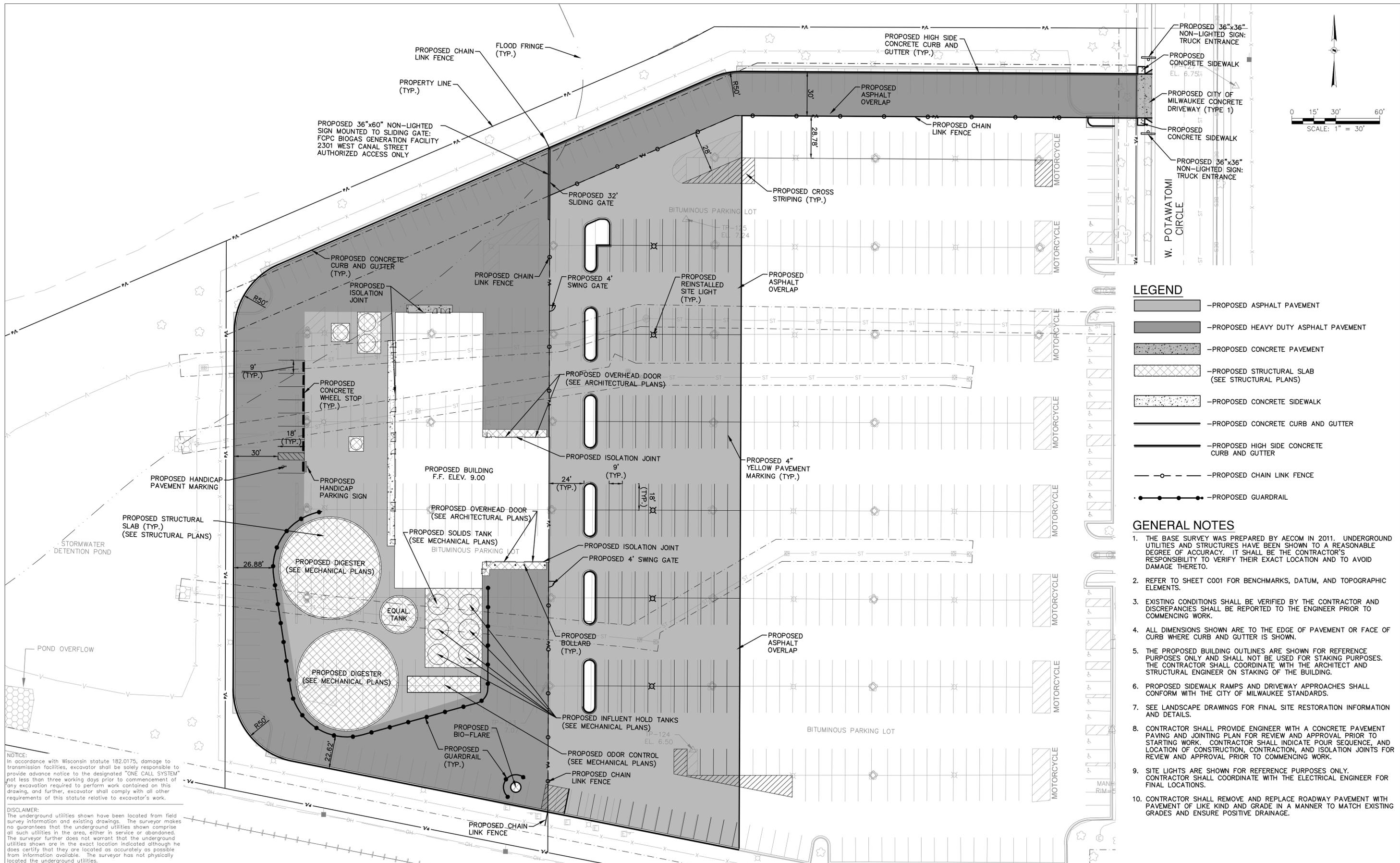
PRELIMINARY - NOT FOR CONSTRUCTION

RENEWABLE ENERGY FACILITY  
FCPC RENEWABLE GENERATION, LLC  
MILWAUKEE, WISCONSIN

EXISTING FACILITIES SITE PLAN

SHEET NO.	DPD-4
DWG NO.	
DATE	9-10-2012
PROJ NO.	W122172

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**LEGEND**

- PROPOSED ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED STRUCTURAL SLAB (SEE STRUCTURAL PLANS)
- PROPOSED CONCRETE SIDEWALK
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED HIGH SIDE CONCRETE CURB AND GUTTER
- PROPOSED CHAIN LINK FENCE
- PROPOSED GUARDRAIL

**GENERAL NOTES**

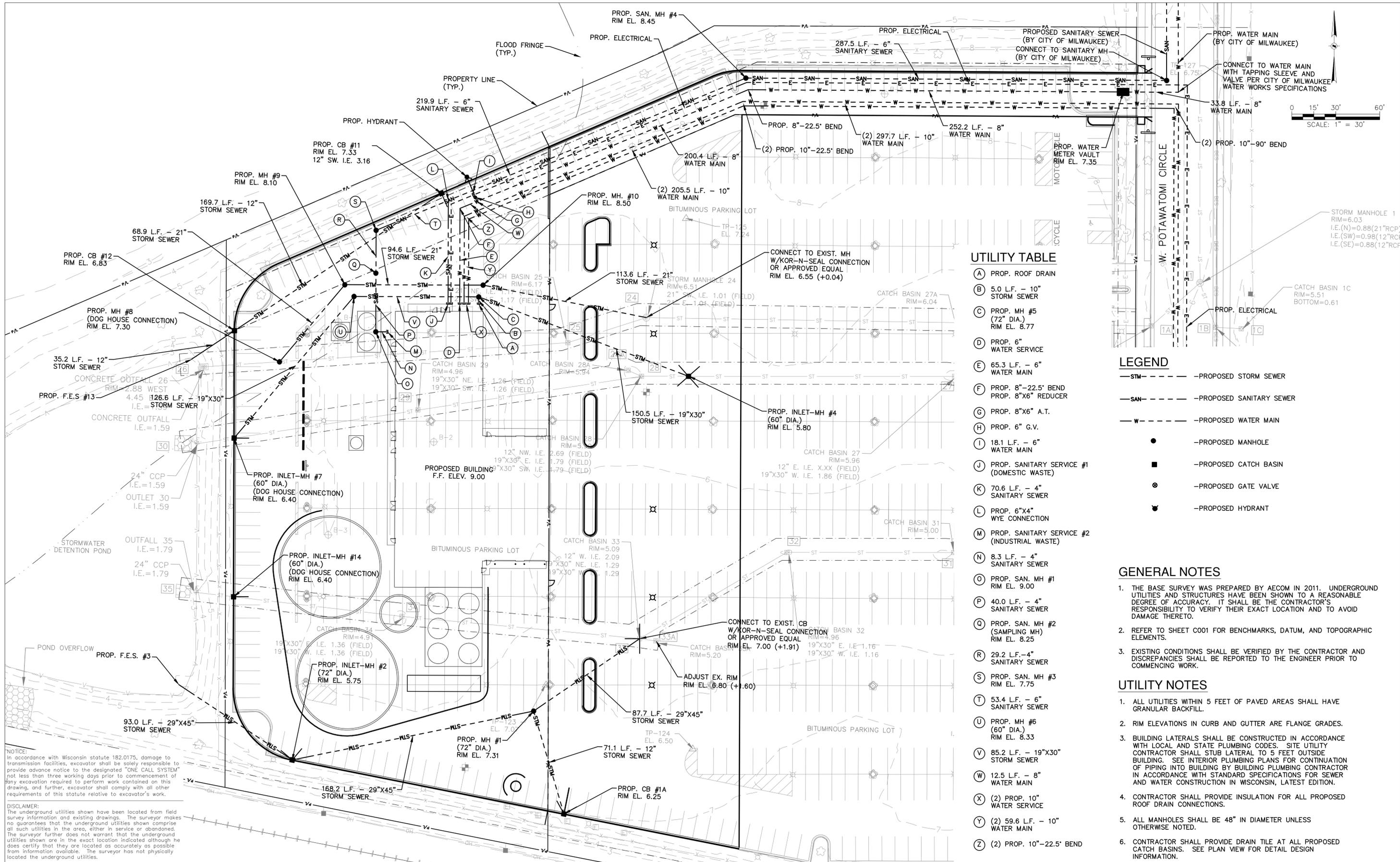
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2. REFER TO SHEET C001 FOR BENCHMARKS, DATUM, AND TOPOGRAPHIC ELEMENTS.
3. EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
4. ALL DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT OR FACE OF CURB WHERE CURB AND GUTTER IS SHOWN.
5. THE PROPOSED BUILDING OUTLINES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE USED FOR STAKING PURPOSES. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND STRUCTURAL ENGINEER ON STAKING OF THE BUILDING.
6. PROPOSED SIDEWALK RAMPS AND DRIVEWAY APPROACHES SHALL CONFORM WITH THE CITY OF MILWAUKEE STANDARDS.
7. SEE LANDSCAPE DRAWINGS FOR FINAL SITE RESTORATION INFORMATION AND DETAILS.
8. CONTRACTOR SHALL PROVIDE ENGINEER WITH A CONCRETE PAVEMENT PAVING AND JOINTING PLAN FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK. CONTRACTOR SHALL INDICATE POUR SEQUENCE, AND LOCATION OF CONSTRUCTION, CONTRACTION, AND ISOLATION JOINTS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.
9. SITE LIGHTS ARE SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER FOR FINAL LOCATIONS.
10. CONTRACTOR SHALL REMOVE AND REPLACE ROADWAY PAVEMENT WITH PAVEMENT OF LIKE KIND AND GRADE IN A MANNER TO MATCH EXISTING GRADES AND ENSURE POSITIVE DRAINAGE.

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**UTILITY TABLE**

- (A) PROP. ROOF DRAIN
- (B) 5.0 L.F. - 10" STORM SEWER
- (C) PROP. MH #5 (72" DIA.) RIM EL. 8.77
- (D) PROP. 6" WATER SERVICE
- (E) 65.3 L.F. - 6" WATER MAIN
- (F) PROP. 8"-22.5" BEND PROP. 8"x6" REDUCER
- (G) PROP. 8"x6" A.T.
- (H) PROP. 6" G.V.
- (I) 18.1 L.F. - 6" WATER MAIN
- (J) PROP. SANITARY SERVICE #1 (DOMESTIC WASTE)
- (K) 70.6 L.F. - 4" SANITARY SEWER
- (L) PROP. 6"x4" WYE CONNECTION
- (M) PROP. SANITARY SERVICE #2 (INDUSTRIAL WASTE)
- (N) 8.3 L.F. - 4" SANITARY SEWER
- (O) PROP. SAN. MH #1 RIM EL. 9.00
- (P) 40.0 L.F. - 4" SANITARY SEWER
- (Q) PROP. SAN. MH #2 (SAMPLING MH) RIM EL. 8.25
- (R) 29.2 L.F. - 4" SANITARY SEWER
- (S) PROP. SAN. MH #3 RIM EL. 7.75
- (T) 53.4 L.F. - 6" SANITARY SEWER
- (U) PROP. MH #6 (60" DIA.) RIM EL. 8.33
- (V) 85.2 L.F. - 19"x30" STORM SEWER
- (W) 12.5 L.F. - 8" WATER MAIN
- (X) (2) PROP. 10" WATER SERVICE
- (Y) (2) 59.6 L.F. - 10" WATER MAIN
- (Z) (2) PROP. 10"-22.5" BEND

**LEGEND**

- STM- -PROPOSED STORM SEWER
- SAN- -PROPOSED SANITARY SEWER
- W- -PROPOSED WATER MAIN
- -PROPOSED MANHOLE
- -PROPOSED CATCH BASIN
- ⊗ -PROPOSED GATE VALVE
- ⊕ -PROPOSED HYDRANT

**GENERAL NOTES**

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**UTILITY NOTES**

1. ALL UTILITIES WITHIN 5 FEET OF PAVED AREAS SHALL HAVE GRANULAR BACKFILL.
2. RIM ELEVATIONS IN CURB AND GUTTER ARE FLANGE GRADES.
3. BUILDING LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL AND STATE PLUMBING CODES. SITE UTILITY CONTRACTOR SHALL STUB LATERAL TO 5 FEET OUTSIDE BUILDING. SEE INTERIOR PLUMBING PLANS FOR CONTINUATION OF PIPING INTO BUILDING BY BUILDING PLUMBING CONTRACTOR IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
4. CONTRACTOR SHALL PROVIDE INSULATION FOR ALL PROPOSED ROOF DRAIN CONNECTIONS.
5. ALL MANHOLES SHALL BE 48" IN DIAMETER UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL PROVIDE DRAIN TILE AT ALL PROPOSED CATCH BASINS. SEE PLAN VIEW FOR DETAIL DESIGN INFORMATION.

**NOTICE:**  
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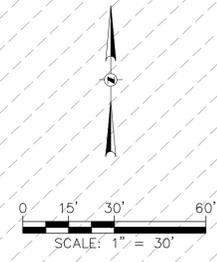
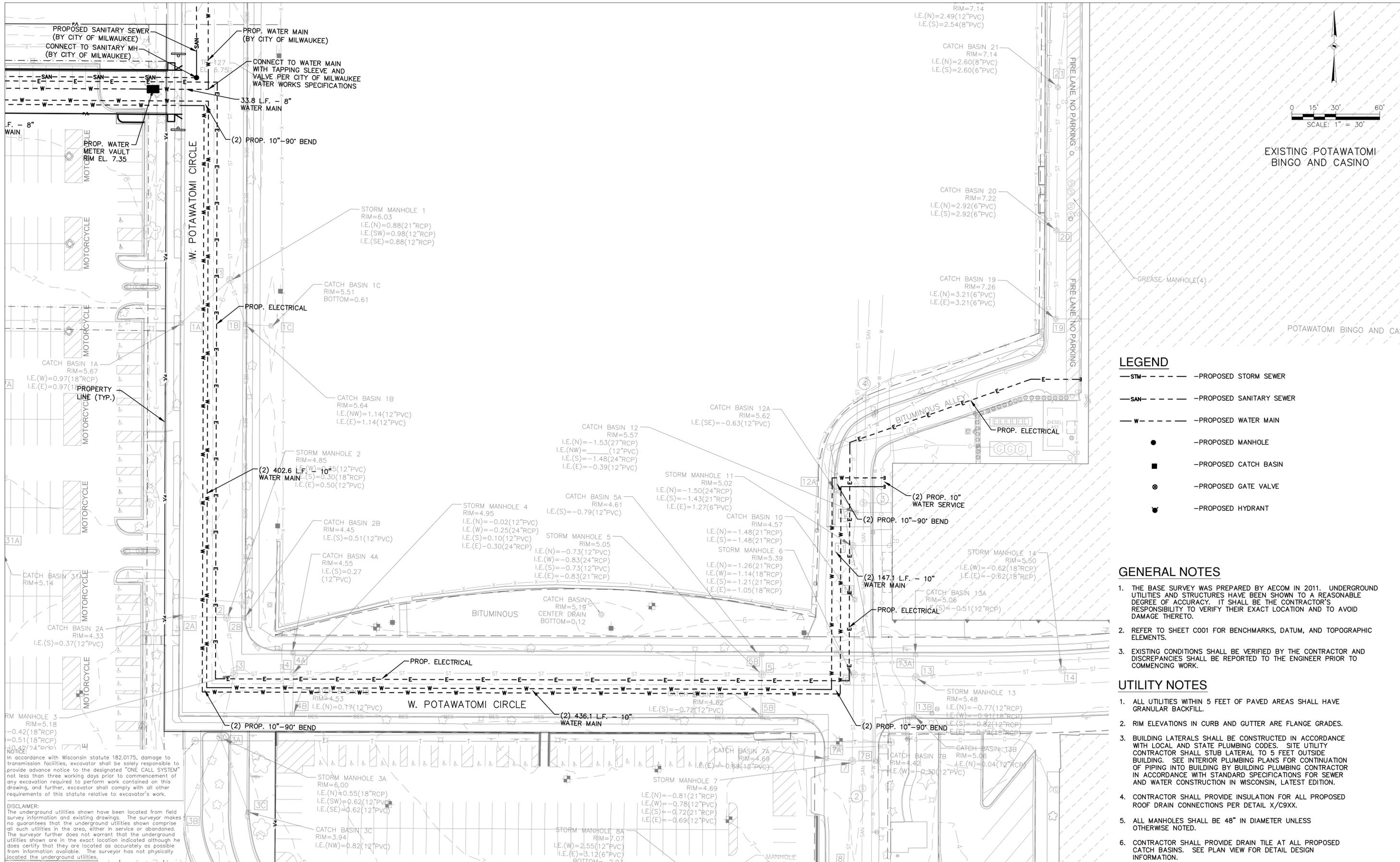
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RENEWABLE ENERGY FACILITY  
FCPC RENEWABLE GENERATION, LLC  
MILWAUKEE, WISCONSIN

PROPOSED UTILITY PLAN

SHEET NO.	DPD-6.1
DWG NO.	
DATE	9-10-2012
PROJ NO.	W122172

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EXISTING POTAWATOMI BINGO AND CASINO

- ### LEGEND
- PROPOSED STORM SEWER
  - PROPOSED SANITARY SEWER
  - PROPOSED WATER MAIN
  - PROPOSED MANHOLE
  - PROPOSED CATCH BASIN
  - PROPOSED GATE VALVE
  - PROPOSED HYDRANT

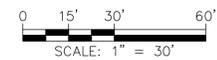
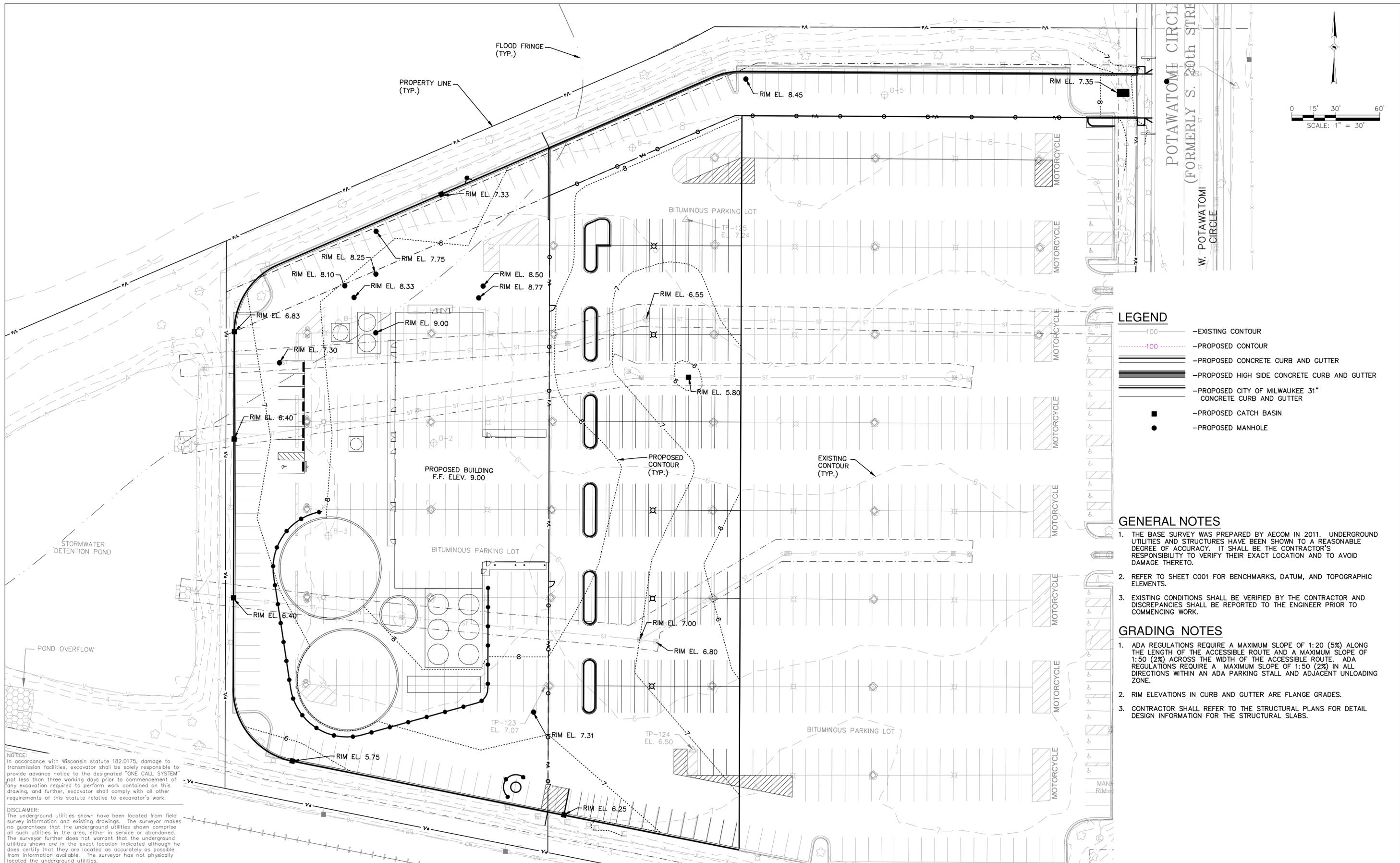
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  5. ALL MANHOLES SHALL BE 48" IN DIAMETER UNLESS OTHERWISE NOTED.
  6. CONTRACTOR SHALL PROVIDE DRAIN TILE AT ALL PROPOSED CATCH BASINS. SEE PLAN VIEW FOR DETAIL DESIGN INFORMATION.

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**LEGEND**

- 100 —EXISTING CONTOUR
- 100 —PROPOSED CONTOUR
- —PROPOSED CONCRETE CURB AND GUTTER
- —PROPOSED HIGH SIDE CONCRETE CURB AND GUTTER
- —PROPOSED CITY OF MILWAUKEE 31" CONCRETE CURB AND GUTTER
- —PROPOSED CATCH BASIN
- —PROPOSED MANHOLE

**GENERAL NOTES**

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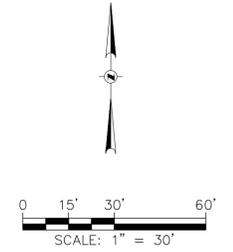
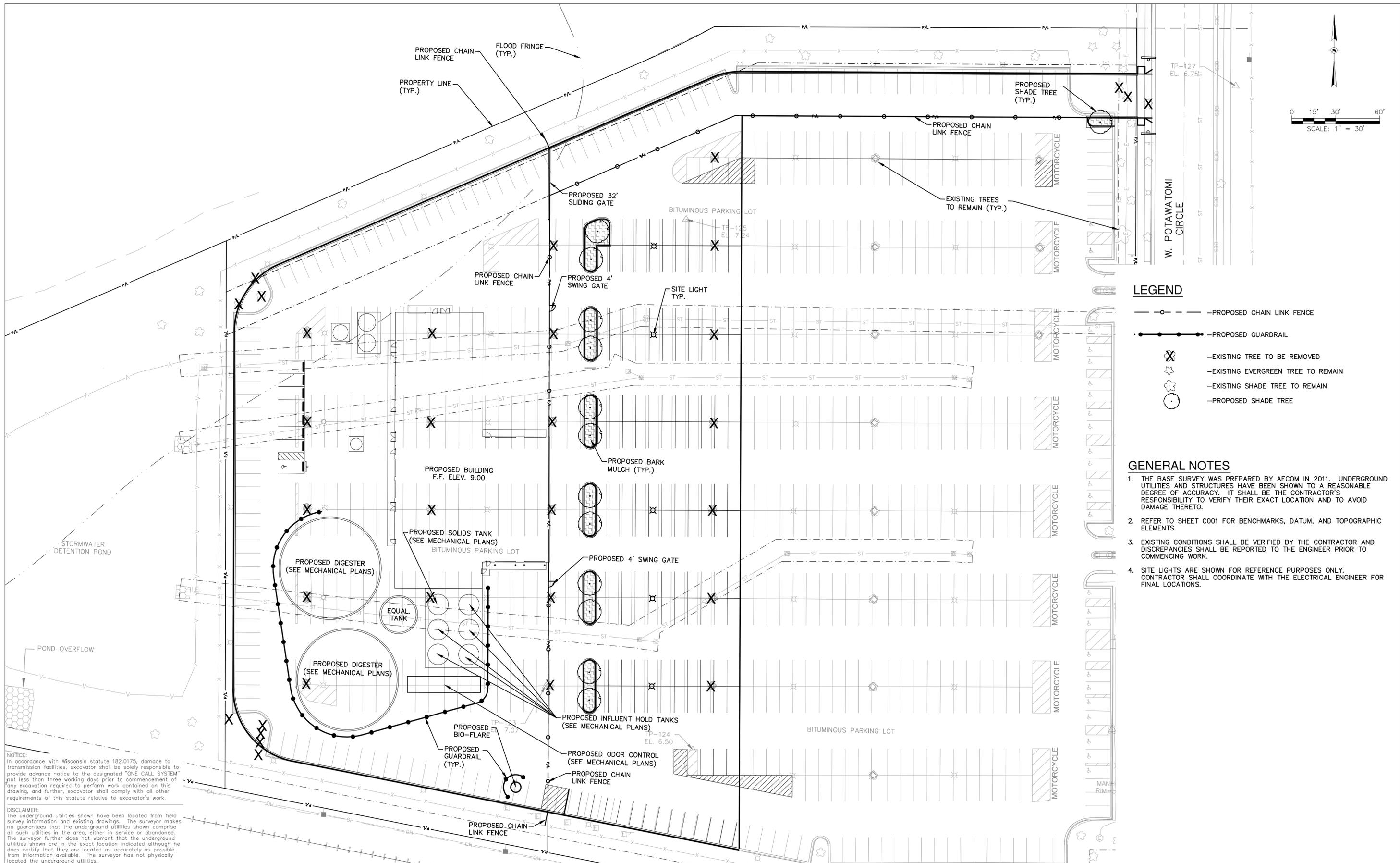
**GRADING NOTES**

1. ADA REGULATIONS REQUIRE A MAXIMUM SLOPE OF 1:20 (5%) ALONG THE LENGTH OF THE ACCESSIBLE ROUTE AND A MAXIMUM SLOPE OF 1:50 (2%) ACROSS THE WIDTH OF THE ACCESSIBLE ROUTE. ADA REGULATIONS REQUIRE A MAXIMUM SLOPE OF 1:50 (2%) IN ALL DIRECTIONS WITHIN AN ADA PARKING STALL AND ADJACENT UNLOADING ZONE.
2. RIM ELEVATIONS IN CURB AND GUTTER ARE FLANGE GRADES.
3. CONTRACTOR SHALL REFER TO THE STRUCTURAL PLANS FOR DETAIL DESIGN INFORMATION FOR THE STRUCTURAL SLABS.

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	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	DSGN DMM DR CTS CHK JTM APVD JTM	PRELIMINARY — NOT FOR CONSTRUCTION	NO. DATE REVISION BY APVD	RENEWABLE ENERGY FACILITY FCPC RENEWABLE GENERATION, LLC MILWAUKEE, WISCONSIN	PROPOSED GRADING PLAN	SHEET NO. DPD-7 DWG NO. DATE 9-10-2012 PROJ NO. W122172
	L:\Jobs\2011\0708\CAD\Site\dwg\DPD-7_Grading_075.dwg, 9/10/2012 4:28 AM, 1501, DWG To PDF, p3						



**LEGEND**

- — PROPOSED CHAIN LINK FENCE
- — PROPOSED GUARDRAIL
- ✕ — EXISTING TREE TO BE REMOVED
- ☆ — EXISTING EVERGREEN TREE TO REMAIN
- — EXISTING SHADE TREE TO REMAIN
- — PROPOSED SHADE TREE

**GENERAL NOTES**

1. THE BASE SURVEY WAS PREPARED BY AECOM IN 2011. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE THERETO.
2. REFER TO SHEET C001 FOR BENCHMARKS, DATUM, AND TOPOGRAPHIC ELEMENTS.
3. EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
4. SITE LIGHTS ARE SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER FOR FINAL LOCATIONS.

**NOTICE:**  
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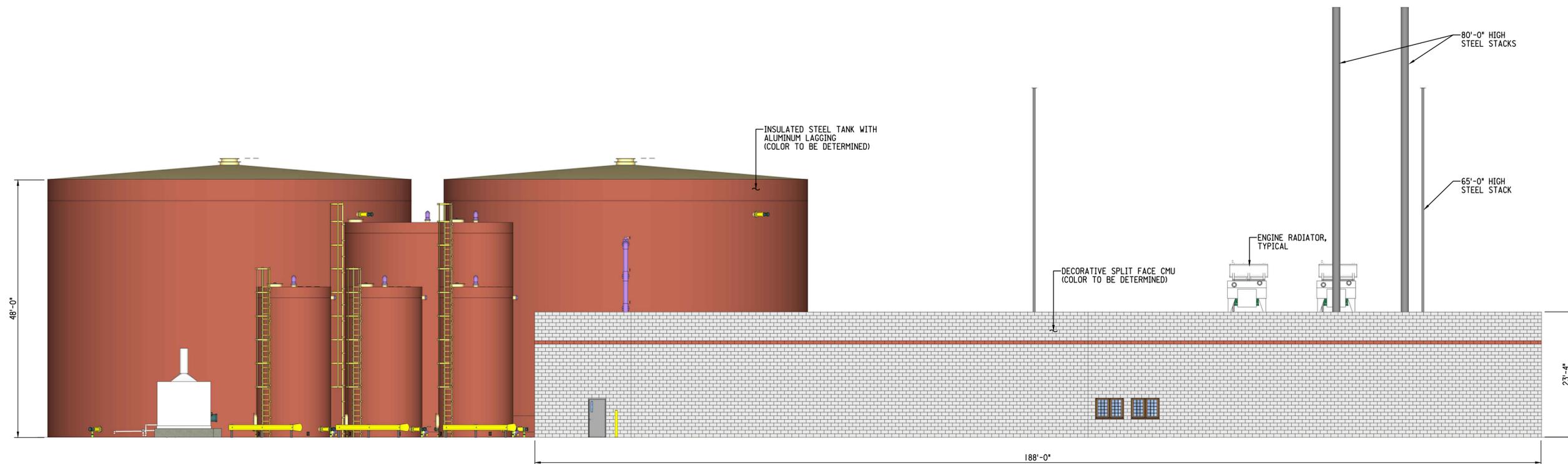
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	DMM						
DR	CTS						
CHK	JTM						
APVD	JTM						
NO.	DATE	PRELIMINARY - NOT FOR CONSTRUCTION	REVISION	BY	APVD		



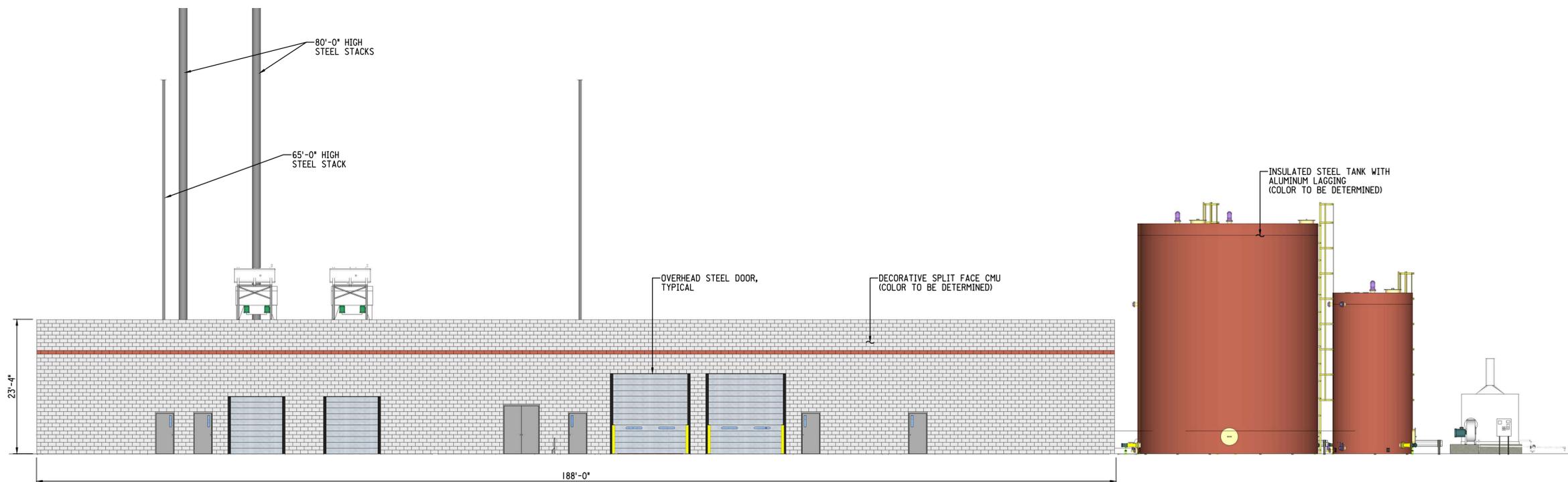
PROPOSED LANDSCAPE PLAN

SHEET NO.	DPD-8
DWG NO.	
DATE	9-10-2012
PROJ NO.	W122172



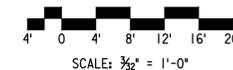
**EAST ELEVATION**

SCALE: 3/32" = 1'-0"



**WEST ELEVATION**

SCALE: 3/32" = 1'-0"



Sep 10, 2012 - 8:14am Peter.Plewa



**VERIFY SCALE**  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	NPB					
DR	NPB					
CHK						
APVD						
ISSUE NO.	DATE	ISSUE	BY	APVD		

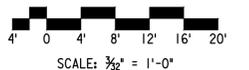
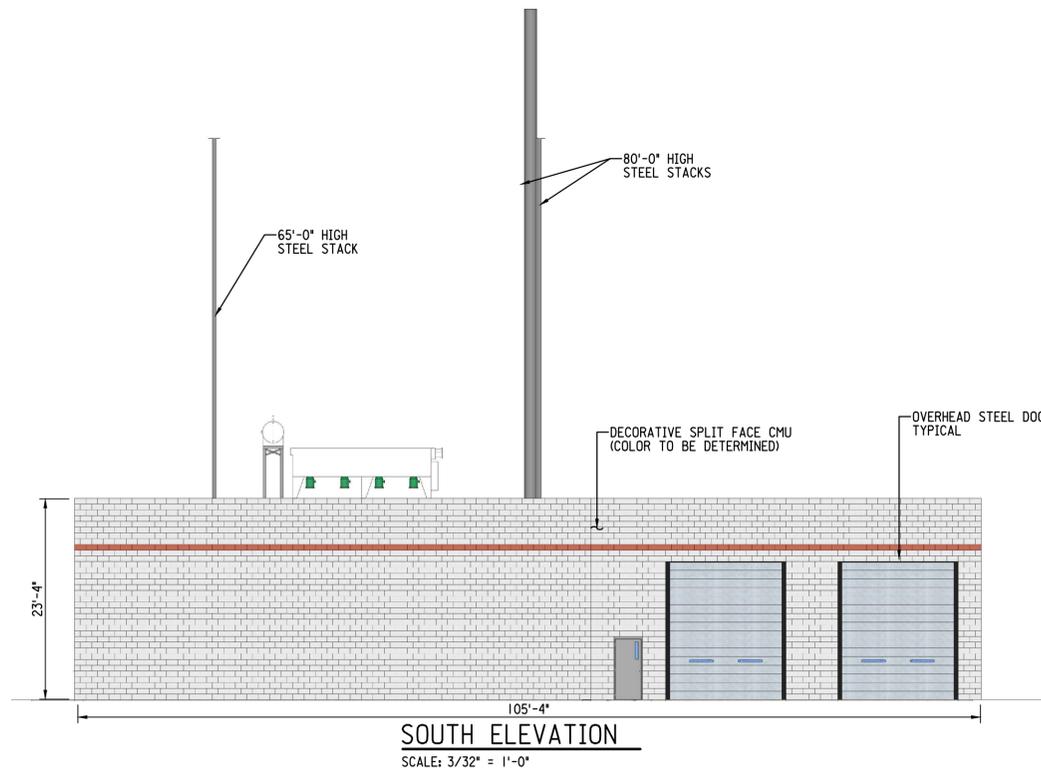
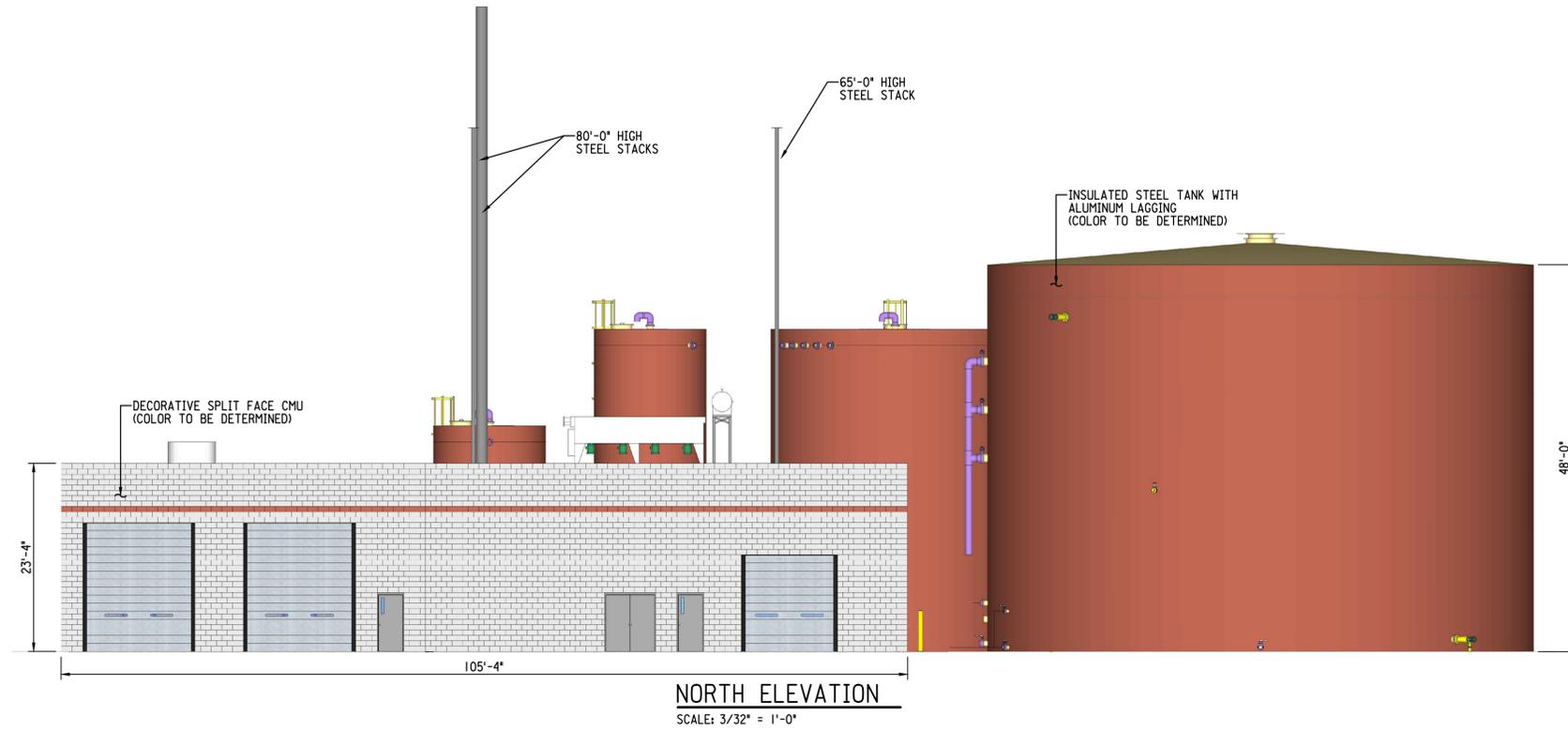


RENEWABLE ENERGY FACILITY  
 FCPC RENEWABLE GENERATION, LLC  
 MILWAUKEE, WISCONSIN

PROPOSED GENERATION FACILITY  
 BUILDING AND TANKS  
 EAST AND WEST ELEVATIONS

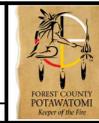
SHEET NO.	DPD-9.1
DWG NO.	--
DATE	9-10-2012
PROJ NO.	WI22172

Sep 10, 2012 - 8:15am Peter, Plewa  
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**VERIFY SCALE**  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 ————— 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

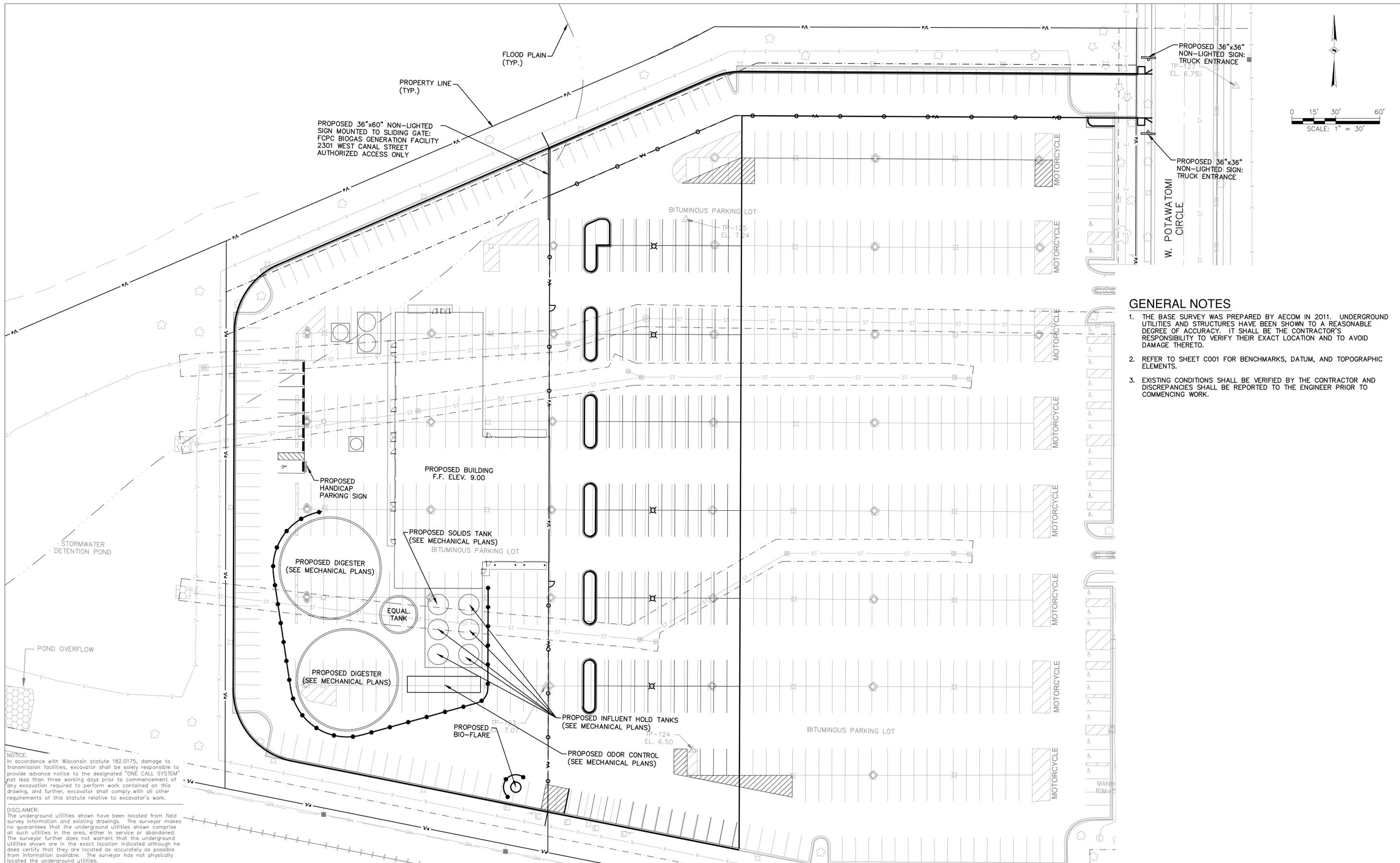
DSGN	NPB						
DR	NPB						
CHK							
APVD							
ISSUE NO.	DATE	ISSUE	BY	APVD			



RENEWABLE ENERGY FACILITY  
 FCPC RENEWABLE GENERATION, LLC  
 MILWAUKEE, WISCONSIN

PROPOSED GENERATION FACILITY  
 BUILDING AND TANKS  
 NORTH AND SOUTH ELEVATIONS

SHEET NO.	DPD-9.2
DWG NO.	--
DATE	9-10-2012
PROJ NO.	WI22172

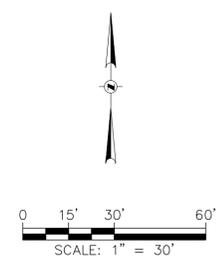


PROPOSED 36"x60" NON-LIGHTED SIGN MOUNTED TO SLIDING GATE: FCPC BIOGAS GENERATION FACILITY 2301 WEST CANAL STREET AUTHORIZED ACCESS ONLY

PROPOSED 36"x36" NON-LIGHTED SIGN: TRUCK ENTRANCE  
TP-127  
EL. 6.755

PROPOSED 36"x36" NON-LIGHTED SIGN: TRUCK ENTRANCE

W. POTAWATOMI CIRCLE



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DSGN	DMM						
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APVD	JTM						
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RENEWABLE ENERGY FACILITY  
FCPC RENEWABLE GENERATION, LLC  
MILWAUKEE, WISCONSIN

PROPOSED SIGNAGE PLAN

SHEET NO.	DPD-10
DWG NO.	
DATE	9-10-2012
PROJ NO.	W122172

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