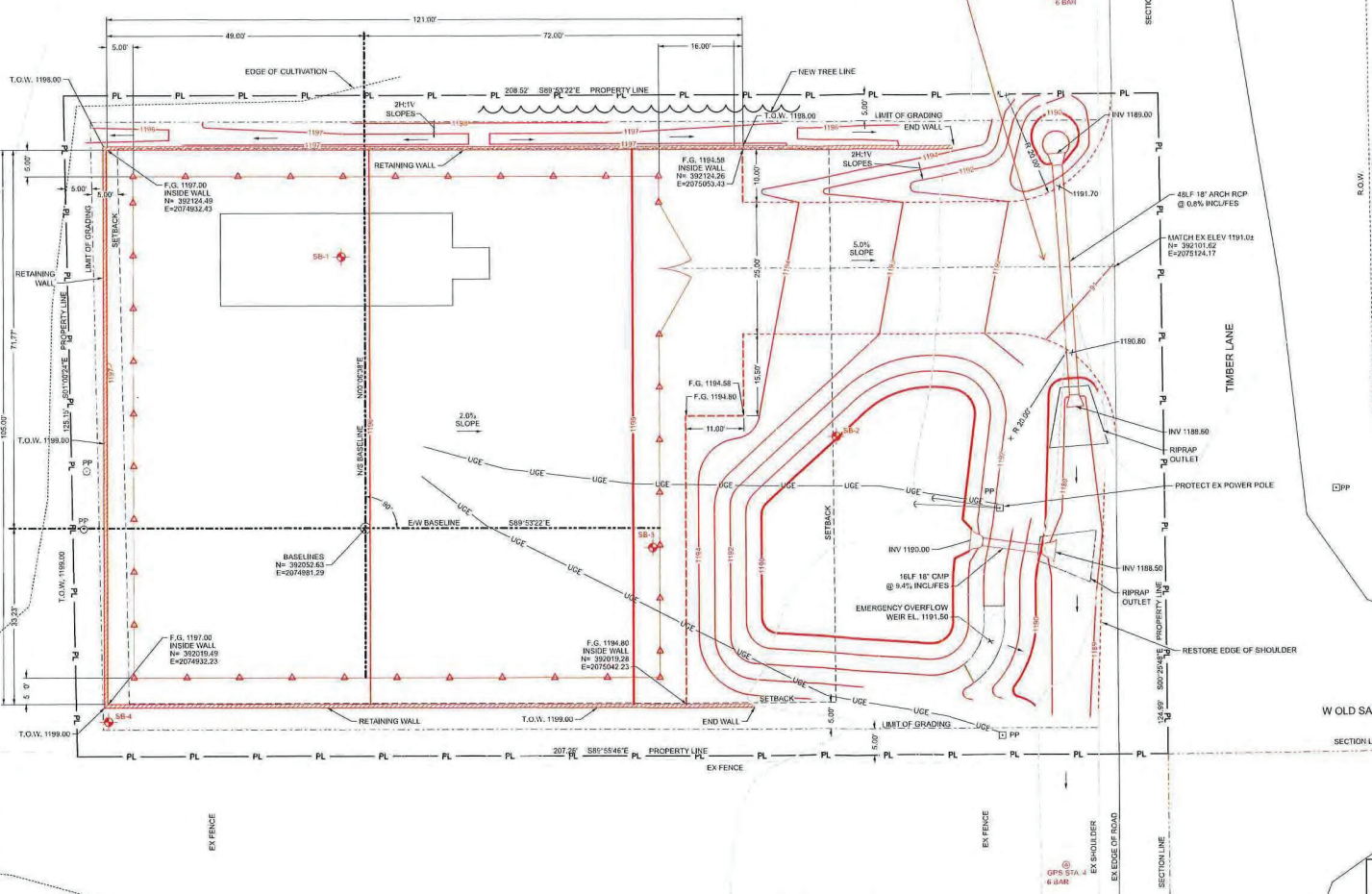


TIMBER LANE SUBSTATION
 4017 TIMBER LANE
 CROSS PLAINS, WI 53528
 DANE COUNTY

New Driveway Location



CONTROL
 HORIZONTAL DATUM - HARPNAW14-SF
 (SPN) (HANN) WISCONSIN STATE PLANE,
 SOUTH ZONE, US FOOT

VERTICAL DATUM - UNKNOWN
 BENCHMARKS MUST BE ESTABLISHED
 BEFORE COMMENCING CONSTRUCTION ACTIVITIES

LEGEND

- SECTION LINE
- RIGHT OF WAY (R.O.W.)
- PROPERTY LINE
- BUILDING SETBACK
- EX OVERHEAD POWER
- EX UNDERGROUND POWER
- EX POWER POLE & GUY WIRE
- EX TELEPHONE LINE
- EX TREE LINE
- EX FENCE
- EX DRIVEWAY LINE
- EX CONTOUR
- PROPOSED CONTOUR
- PROPOSED DRIVE GRADUAL
- PROPOSED RETAINING WALL
- PROPOSED GRADING LIMIT
- APPROX. SOIL BORING LOCATION

SCALE: 1"=10'

GENERAL NOTES

- ALL GRADE ELEVATIONS AND PROPOSED CONTOURS ARE AT FINAL GRADE (F.G.).
- REMOVE ALL STONE & GRAVEL TO A DEPTH OF 18" FROM SURFACE OF SUBSISTE.
- ALL SLOPES 3:1 MAXIMUM UNLESS NOTED.
- TOPSOIL WILL BE PLACED AROUND SUBSISTE PERIMETER AND AREAS WHERE SHRUBS WILL BE PLANTED TO BRING UP TO FINAL GRADE AND EXCESS PURCHASED AND REMOVED FROM SITE BY THE CONTRACTOR.
- EXCESS MATERIAL SHALL BE HAULED OFF AND DISPOSED OFF SITE.
- BRING ENTIRE SUBSISTE TO WITHIN 6" TO 8" OF FINAL GRADE WITH APPROVED FILL (AS PER WPAJ SPECIFICATION #008.5).
- ENTIRE SITE MUST BE PROOF-ROLLED WITH A FULLY LOADED DUMP TRUCK OR SCRAPER. IF SOFT AREAS ARE DETECTED AND NOT IMPROVED WITH REPEATED PROOF-ROLLING, THE SUBGRADE SHOULD BE STABILIZED AND/OR UNDERCRUT AND SUBGRADE RE-ESTABLISHED PRIOR TO PLACEMENT OF APPROVED FILL. SUBGRADE MAY BE STABILIZED WITH INDIVIDUAL 1/4" LAYERS OF CLEAR COARSE STONE (1/2" DIAMETER) WORKED INTO THE SUBGRADE.
- CONTRACTOR SHALL FILL SUBSTATION UP TO FINAL GRADE WITH A 6" TO 8" LAYER OF COMPACTED 3/4" CRUSHED LIMESTONE.
- REMOVE EXISTING SUBSTATION FENCE AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE SOLID WASTE DISPOSAL REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION HIGHWAY PERMIT OBTAINED BY WISCONSIN POWER AND LIGHT CO. THE CONTRACTOR SHALL HAVE A COPY OF THIS PERMIT ON THE CONSTRUCTION SITE AT ALL TIMES WHEN CONSTRUCTION IS IN PROGRESS.

CONSTRUCTION NOTES

THE METHODS OF SITE PREPARATION WILL DEPEND ON THE WEATHER CONDITIONS BEFORE AND DURING CONSTRUCTION. CONTRACTOR MUST FOLLOW THE RECOMMENDATIONS FROM GEOTECHNICAL ENGINEERING OF CRATION AND ANALYSIS, TIMBER LANE SUBSTATION REBUILD, 4017 TIMBER LANE, CROSS PLAINS, WISCONSIN, PREPARED BY XXXX, DATED X-X-22, PROJECT NO. XXXXXXXXX. THE FOLLOWING ARE GENERAL RECOMMENDATIONS:

- THE SITE TOPSOIL SHALL BE STRIPPED OF VEGETATION TO A DEPTH OF 6 INCHES OR TO SUCH GREATER DEPTH AS MAY BE NECESSARY TO REMOVE ROOTS AND OTHER ORGANIC MATTER. (SEE GEOTECHNICAL REPORT)
- PRIOR TO PLACEMENT OF FILL, THE SUBGRADE SHALL BE PROOF-ROLLED WITH A FULLY LOADED TRAILER-ABLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 20 TONS. UNSUITABLE AREAS OBSERVED SHALL BE IMPROVED BY COMPACTION, BY REPLACEMENT WITH SUITABLE COMPACTED FILL MATERIAL OR OTHER METHODS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- ANY MATERIAL IN THE SUBGRADE INCAPABLE OF COMPACTION TO DENSITIES SPECIFIED SHALL BE REMOVED/ REPLACED WITH ACCEPTABLE MATERIAL.
- ENGINEER FILL SHALL CONSIST OF A GRANULAR MATERIAL WHICH CONTAINS LESS THAN 8% PASSING #200 SIEVE AND LESS THAN 40% PASSING THE #40 SIEVE. MATERIAL OF THIS TYPE IS LOW IN FROST SUSCEPTIBILITY AND IS RELATIVELY FREE DRAINING.
- FILLS AND EMBANKMENTS SHALL BE CONSTRUCTED IN UNIFORM LIFTS OR LAYERS NOT GREATER THAN 6 INCHES OF LOOSE FILL AND PARALLEL TO THE FINISHED SURFACE.
- COMPACT FILL MATERIAL IN LIFTS NOT EXCEEDING 6 INCHES UNCOMPACTED THICKNESS TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698). MAINTAIN MOISTURE CONTENT WITHIN PLUS OR MINUS 2% OF THE OPTIMUM DETERMINED FOR MAXIMUM DENSITY. DO NOT PLACE, SPREAD OR COMPACT FILL MATERIAL DURING WET OR UNFAVORABLE WEATHER CONDITIONS. WET GRANULAR MATERIALS THOROUGHLY DURING OR IMMEDIATELY PRIOR TO COMPACTION.
- FINISH FILL, EXCAVATED, AND OTHER DISTURBED AREAS TO UNIFORM GRADE AND SECTION NORMALLY OBTAINABLE WITH A BLUE GRADER. FINISH GRADE TO A NEAT APPEARANCE AND PROVIDE POSITIVE DRAINAGE. ALLOWABLE TEMPLATE TOLERANCE = 0.10 FT.

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WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511

DIGGERS HOTLINE

EMERGENCY ONLY: (262) 432-7910 OR (877) 500-9592

WISCONSIN POWER AND LIGHT COMPANY

TIMBER LANE SUBSTATION
 4017 TIMBER LANE
 CROSS PLAINS, WI 53528
 DANE COUNTY

NEW

FOR CLIENT REVIEW

Date: 03-25-2022

NO.	DATE	REVISION	BY	CHKD	APPD



TIMBER LANE SUBSTATION
 GRADING PLAN
 SE 1/4 OF SE 1/4 OF SECTION 13, T7N, R7E
 TOWN OF CROSS PLAINS, DANE COUNTY, WISCONSIN

SCALE: 1"=10'

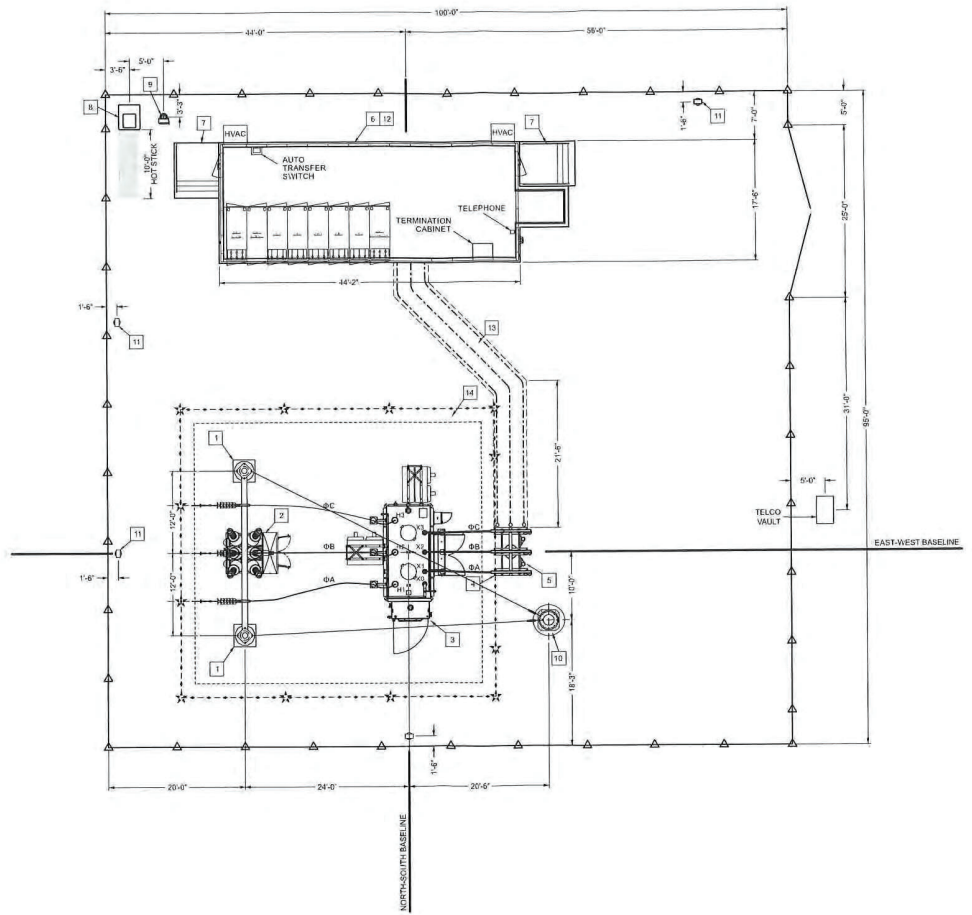
16097-02-02

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EQUIPMENT SCHEDULE		
ITEM	DESCRIPTION	DRAWING
1	LEAD END STRUCTURE	08-01
2	HIGH SIDE CIRCUIT BREAKER	08-02
3	POWER TRANSFORMER	08-03
4	BUS TERMINATION STRUCTURE (200KA)	08-04
5	POWER CABLE ASSEMBLY	08-05
6	METALCLAD SWITCHGEAR	05-01
7	STAIRS	08-06
8	INDUCENT TRANSFORMER	08-07
9	SAFETY SWITCH	08-07
10	STATIC POLE	08-08
11	MAINTENANCE FLOODLIGHT	08-09
12	TELEPHONE AND SUMP PUMP ASSEMBLY	08-13
13	DUCT BANK	03-27
14	OIL CONTAINMENT SYSTEM	03-23



- LEGEND:**
- ▲ FENCE POST
 - ☆ SAFETY MARKER
 - OIL CONTAINMENT BARRIER BOOM
 - - - OIL CONTAINMENT AGGREGATE EXTENTS

NEW

FOR PERMIT

Date: 03-25-2022

SEED FILE: 005-09-01
 REV: 00 DATE: 05-03-2020

NO	DATE	REVISION	BY	CHKD	APPD

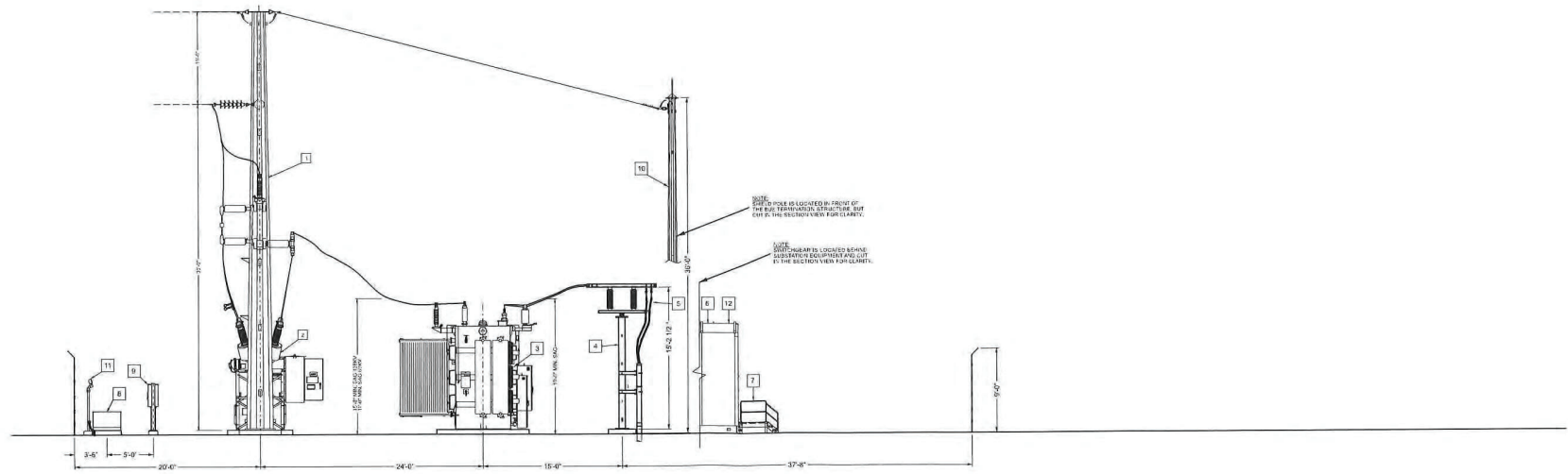
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WISCONSIN POWER AND LIGHT COMPANY
 TIMBER LANE SUBSTATION CROSS PLAINS, WI
 SUBSTATION PLAN VIEW

SCALE: 1/8" = 1'-0" 16097-06-01

ITEM	DESCRIPTION	DRAWING
1	DEAD END STRUCTURE	06-01
2	HIGH SIDE CIRCUIT BREAKER	06-02
3	POWER TRANSFORMER	06-03
4	BUS TERMINATION STRUCTURE (V000A)	06-04
5	POWER CABLE ASSEMBLY	06-05
6	15 KVA LOAD SWITCHGEAR	05-01
7	STAIRS	06-06
8	PADMOUNT TRANSFORMER	06-07
9	SAFETY SWITCH	06-07
10	STATIC POLE	06-08
11	MAINTENANCE FLOODLIGHT	06-09
12	TELEPHONE AND CUMP PUMP ASSEMBLY	06-10
13	DUCT BANK	03-77
14	OIL CONTAINMENT SYSTEM	03-77



(A) EQUIPMENT ELEVATION

16097-06-02.dwg
 24-MAR-2022
 Project: 16097-06-02.dwg
 File: \\us.com\alltag\projects\16097-06-02.dwg

NEW

FOR CLIENT REVIEW

Date: 03-23-2022

DESIGNED BY	REVIEWED BY
DRAWN BY	CHECKED BY
DATE	DATE

NO.	DATE	DESCRIPTION	BY

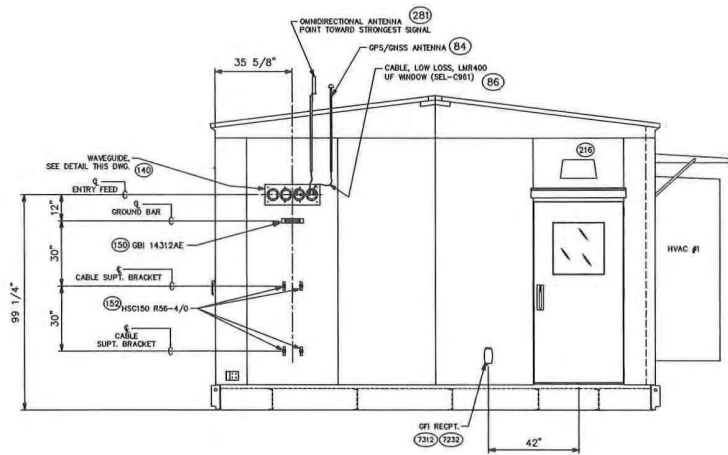
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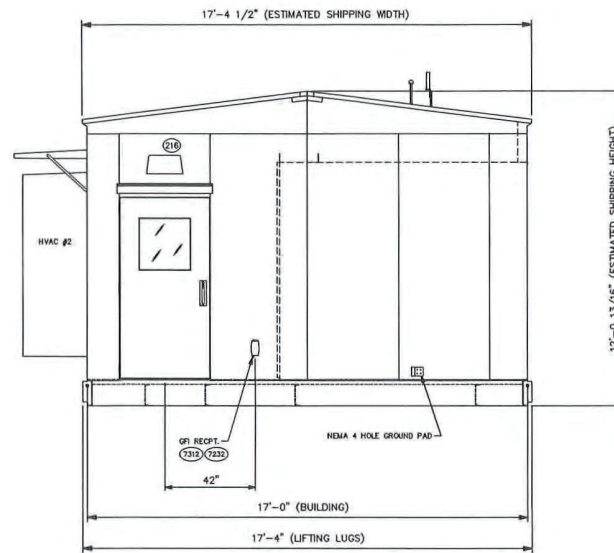
WISCONSIN POWER AND LIGHT COMPANY
 TIMBER LANE SUBSTATION CROSS PLAINS, WI
 SUBSTATION ELEVATION VIEW

SCALE: 3/16" = 1'-0"

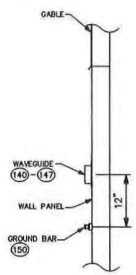
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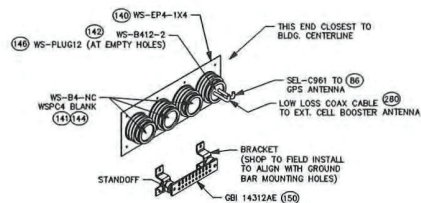
END VIEW "Y-Y"



END VIEW "Z-Z"

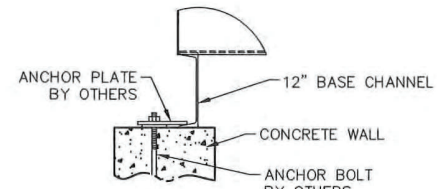


SECTION VIEW E-E
SCALE 2:1



WAVEGUIDE: EXTERIOR DETAIL

(LEFT END OF BLDG.)



ANCHOR DETAIL
(N.T.S.)

REV			
DATE			
BY			
CHKD			
APP'D			
DATE			
Corbett Power Center 3602 Duxbury Avenue Canton, MA 01921 Telephone: (617) 234-3500 Fax: (617) 234-8502			
 Energy Efficiency Solutions			
SCALE	JTC		
1/2" = 1'-0"	02/25/22		
BRANK	APPROVAL		
	02/25/22		3/15/22
ALLIANT ENERGY - WP-SEL TIMBER LAKE SUBSTATION ZTKV OUTDOOR SWITCHGEAR END ELEVATIONS			
DRAWING NO. P4451-01B			