

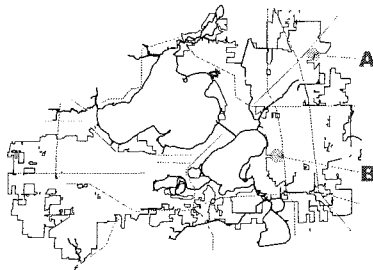
Exhibit A

CITY OF MADISON

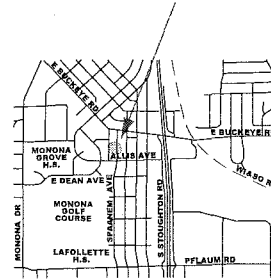
FACILITIES MANAGEMENT & SUSTAINABILITY
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT FOR
PUBLIC SAFETY RADIO SYSTEM 2016

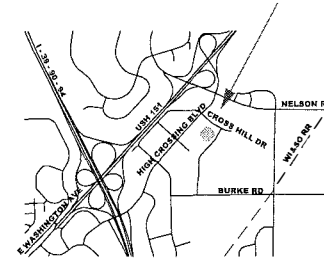
PROJECT NO 45019 CONTRACT NO 7773



GENERAL LOCATION MAP



**A. PROJECT LOCATION
3518 CROSS HILL DR**




**B. PROJECT LOCATION
4724 SPAANEM AVE**

SHEET INDEX

- SHEET 1 PROJECT COVER SHEET
- SHEET 2 CROSS HILL DR. SITE & EROSION CONTROL PLAN
- SHEET 3 CROSS HILL DR. CONSTRUCTION, GRADING PLAN
- SHEET 4 CROSS HILL DR. ELECTRICAL GROUNDING PLAN
- SHEET 5 SPAANEM AVE. PLANS AND DETAILS

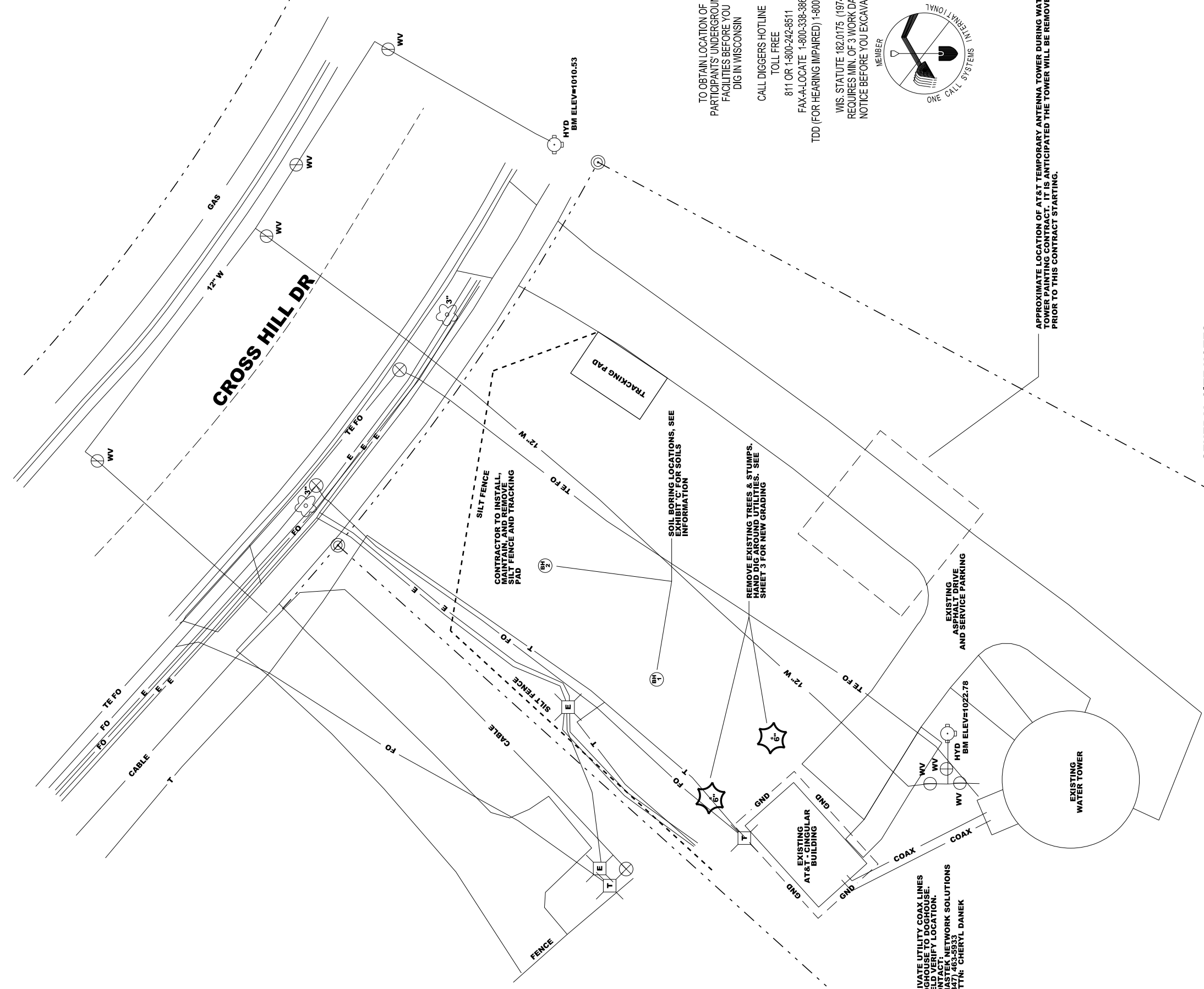
CONTRACTOR SHALL ALSO REVIEW THE FOLLOWING EXHIBITS FOR ADDITIONAL INFORMATION:

- 'EXHIBIT B' = FOOTING AND FOUNDATION CONSTRUCTION PLANS
- 'EXHIBIT C' = SOIL BORING REPORT
- 'EXHIBIT D' = COMMUNICATION BUILDING PLAN SET
- 'EXHIBIT E' = MOTOROLA STANDARDS AND GUIDELINES FOR COMMUNICATION SITES
- 'EXHIBIT F' = GENERAC EXTERNAL GENERATOR INFORMATION
- 'EXHIBIT G' = OTHER RELATED OWNER SPECIFICATIONS

PUBLIC IMPROVEMENT PROJECT APPROVED:	PUBLIC IMPROVEMENT DESIGN APPROVED BY: 
RESOLUTION: 16-00471	CITY ENGINEER
FILE ID: 43191	DATE 8/23/16
DATED: JUNE 23, 2016	
BY THE COMMON COUNCIL OF MADISON, WISCONSIN	

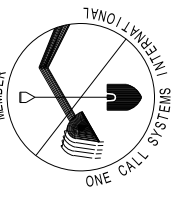
CP #3CRO
 N=507486.9880
 E=48223.9768
 ELEV=1006.4170

CP #1CRO
 N=507380.1740
 E=48223.9768
 ELEV=1007.1490



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
 CALL DIGGERS HOTLINE TOLL FREE
 811 OR 1-800-242-8511
 FAX-A-LOCATE 1-800-338-3860
 TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

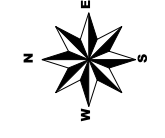


APPROXIMATE LOCATION OF AT&T TEMPORARY ANTENNA TOWER DURING WATER TOWER PAINTING CONTRACT. IT IS ANTICIPATED THE TOWER WILL BE REMOVED PRIOR TO THIS CONTRACT STARTING.

PRIVATE UTILITY COAX LINES DOGHOUSE TO DOGHOUSE. VERIFY LOCATION. CONTACT: MASTEK NETWORK SOLUTIONS (847) 463-5933 ATTN: CHERYL DANEK

GENERAL SITE NOTES:

1. CONTRACTOR SHALL INSTALL, MAINTAIN, AND REMOVE ALL EROSION CONTROL MEASURES DURING THE COURSE OF THIS CONTRACT.
2. CONTRACTOR SHALL STOCKPILE ANY EXCAVATED TOPSOIL ON SITE AND USE AS NEEDED FOR FINAL GRADING.
3. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF EXCESS SOILS AND DEBRIS CAUSED BY THE REQUIRED EXCAVATION.
4. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE AROUND EXCAVATION UNTIL BACKFILL OPERATIONS ARE COMPLETE.



SCALE: 1" = 20'
 11 x 17'

CP #3CRO
 N=507466.9880
 E=48223.9768
 ELEV=1007.1470

PLANTING SCHEDULE: ITEMS SHOWN ON PLAN ARE
 ESTIMATED AT FULL MATURITY

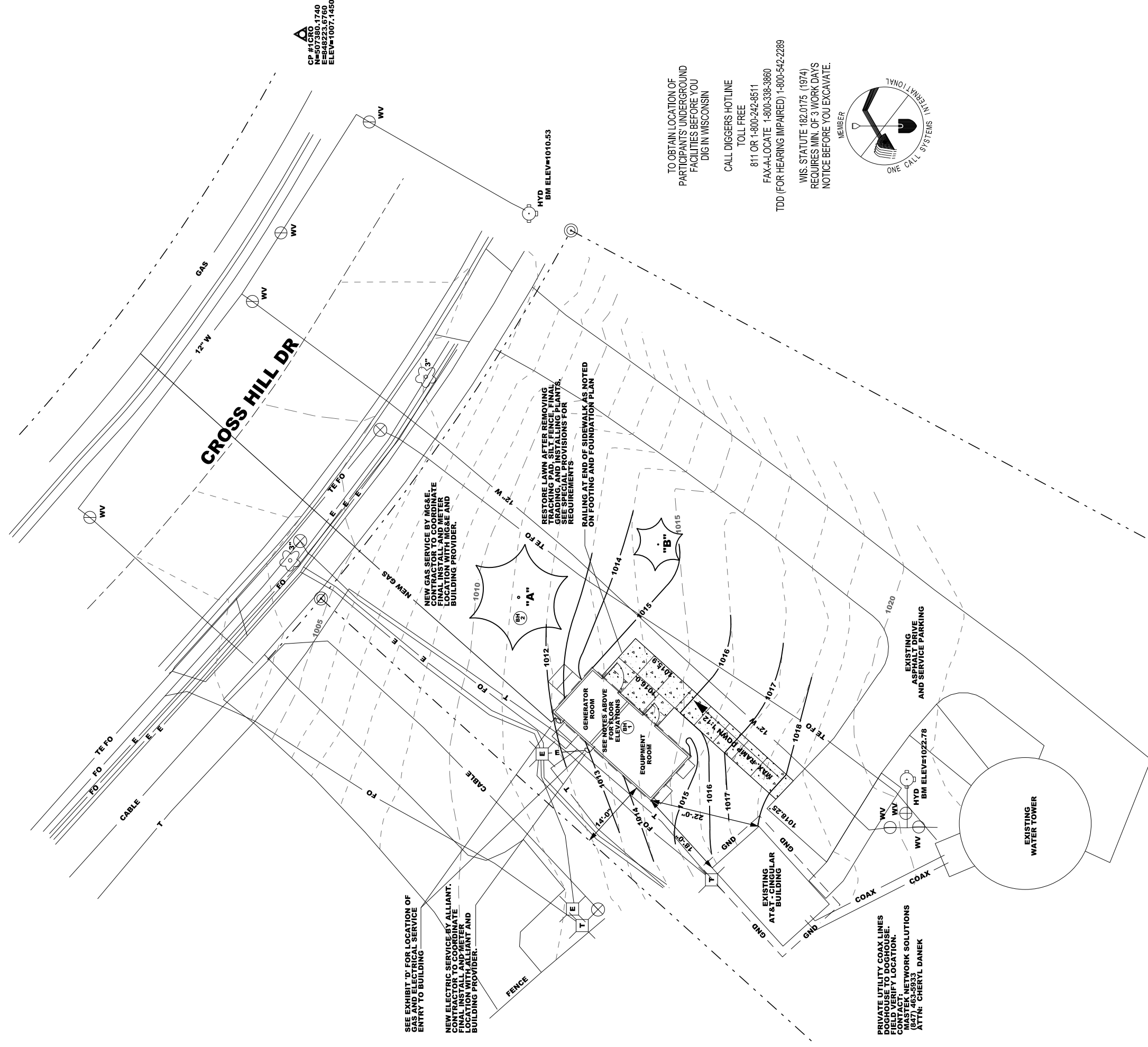
"A", ONE EACH
 MALUS 'CARDINAL', CARDINAL CRABAPPLE
 2" DIA, BB

"B", ONE EACH
 MALUS 'PARRSI', PINK PRINCESS CRABAPPLE
 1-1/2" DIA, BB

FLOOR ELEVATIONS:
 REFER TO 'APPENDIX B' FOR STRUCTURAL PLANS AND DETAILS

FINISHED FLOOR OF PRE-FAB BUILDING
 SITE = 1016.1
 STRUCTURAL = 1016.1

FINISHED FLOOR OF FOUNDATION FOR THIS CONTRACT
 SITE = 1015.5
 STRUCTURAL = 1015.5



CP #1CRO
 N=507380.1740
 E=48223.9768
 ELEV=1007.1480

SEE EXHIBIT 'D' FOR LOCATION OF
 GAS AND ELECTRICAL SERVICE
 ENTRY TO BUILDING

NEW ELECTRIC SERVICE BY ALLIANT.
 CONTRACTOR TO COORDINATE
 FINAL INSTALL AND METER
 LOCATION WITH ALLIANT AND
 BUILDING PROVIDER.

NEW GAS SERVICE BY MG&E.
 CONTRACTOR TO COORDINATE
 FINAL INSTALL AND METER
 LOCATION WITH MG&E AND
 BUILDING PROVIDER.

RESTORE LAWN AFTER REMOVING
 TRACKING PAD, SILT FENCE, FINAL
 GRADING, AND INSTALLING PLANTS.
 SEE PROVISIONS FOR
 REQUIREMENTS

RAILING AT END OF SIDEWALK AS NOTED
 ON FOOTING AND FOUNDATION PLAN

GENERATOR ROOM
 SEE NOTES ABOVE
 FOR FLOOR
 ELEVATIONS

EQUIPMENT ROOM

PRIVATE UTILITY COAX LINES
 DOGHOUSE TO DOGHOUSE.
 VERIFY LOCATION.
 CONTACT:
 MASTEK NETWORK SOLUTIONS
 (847) 463-5933
 ATTN: CHERYL DANEK

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

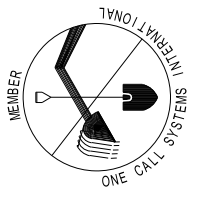
CALL DIGGERS HOTLINE
 TOLL FREE

811 OR 1-800-242-8511

FAX-A-LOCATE 1-800-338-3860

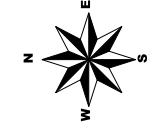
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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



CONSTRUCTION NOTES:

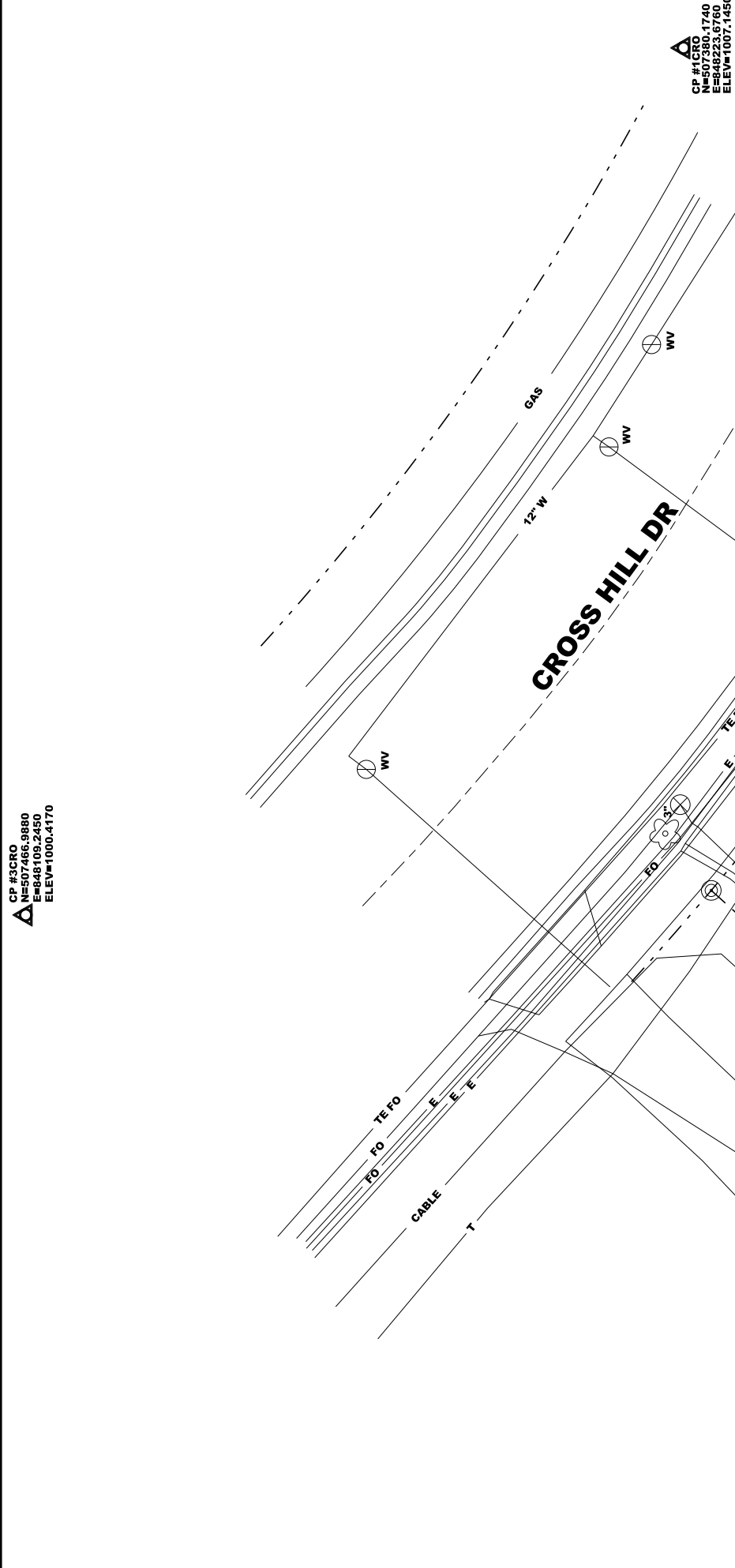
1. PREFABRICATED BUILDING BY OTHERS, SHOWN FOR REFERENCE ONLY.
2. CONTRACTOR TO INSTALL FOOTING AND FOUNDATION FOR PREFABRICATED BUILDING. SEE EXHIBIT 'B' FOR PLANS, SPECIFICATIONS, AND STRUCTURAL CALCULATIONS.
3. FOUNDATION SHALL BE 14'-0" OFF OF AND PARALLEL TO THE WESTERLY PROPERTY LINE AS SHOWN.
4. CONTRACTOR SHALL NOT INSTALL SIDEWALK, FINAL GRADES, SEEDING/MATTING, AND LANDSCAPING UNTIL THE PREFABRICATED BUILDING (BY OTHERS) HAS BEEN SET ON AND FASTENED TO THE FOUNDATION.
5. NEW TREES SHALL BE MINIMUM OF 14'-0" EITHER SIDE OF 12" WATER MAIN.
6. CONTRACTOR SHALL RE-USE STOCKPILED TOP SOIL WHEN RE-GRADING SITE. MINIMUM OF 6" COVER OVER FILL MATERIAL. DISBURSE EXCESS OR PROVIDE ADDITIONAL TOP SOIL AS NEEDED.



SCALE: 1" = 20'
 11 x 17'

TE BLDG FOUNDATION CROSS HILL DRIVE	CITY ENGINEERING MUNIS 45019
SITE CONSTRUCTION AND GRADING PLAN	
3	

CP #3CR0
 N=507486.9880
 E=48233.9768
 ELEV=1006.4170



CP #1CR0
 N=507380.1740
 E=48233.9768
 ELEV=1007.1480

HYD
 BM ELEV=1010.53

COVERED TEST WELL FOR GROUNDING
 SYSTEM, OF 4, SEE SECTION 4.4.1.8
 AND FIGURE 4.2.1

PROVIDE PRE-GROUNDED
 GENERATOR GROUNDING

FOOTING REBAR FOR
 REFERENCE ONLY, SEE
 STRUCTURAL DETAILS
 IN EXHIBIT 'B'

GROUNDING RING SHOWN DASHED
 NEW OUTSIDE OF
 FOOTING SHOWN SOLID

GROUNDING ROD, TYP. OF 2, SEE
 FIGURES 4.4.1.5, 4.4.1.6, 4.4.1.7,
 AND FIGURE 4.11 THROUGH PAGE 4-14.

CONNECT FOOTING REBAR TO GROUNDING
 RING ONCE ON UPPER FOOTING AND ONCE
 ON LOWER FOOTING, SEE SECTION 4.4.1.5
 AND FIGURE 4.17. ENSURE CONNECTION IS
 MADE TO ALL REBAR AND REMAINS BONDED TO REBAR DURING
 THE CONCRETE POUR

PROPOSED ANTENNA CABLING BY OTHERS
 SHOWN DASHED, VERIFY REQUIREMENTS
 AND PROVIDE PRE-GROUNDED CONNECTION

EXISTING ASPHALT DRIVE
 AND SERVICE PARKING

HYD
 BM ELEV=1022.78

EXISTING
 WATER TOWER

PROVIDE GROUNDED
 ELECTRICAL SERVICE

FENCE

CONTRACTOR SHALL USE CAUTION
 WHEN LAYING THE GROUNDING RING
 ADJACENT TO OTHER UTILITIES.
 IF ANY OTHER UTILITIES ARE FOUND,
 THE GROUNDING RING SHALL BE
 NOT OVERLAP GROUNDING RING
 WITH OTHER UTILITIES.

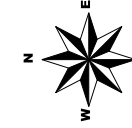
PRIVATE UTILITY COAX LINES
 DOGHOUSE TO DOGHOUSE.
 VERIFY LOCATION.
 CONTACT:
 MASTEK NETWORK SOLUTIONS
 (847) 463-5933
 ATTN: CHERYL DANEK

EXISTING
 AT&T CIRCULAR
 BUILDING

PROVIDE GROUNDED
 ELECTRICAL SERVICE

ELECTRICAL GROUNDING NOTES:

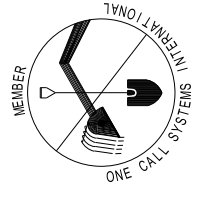
1. CONTRACTOR SHALL SPECIFICALLY REFERENCE CHAPTER 4 OF EXHIBIT 'E' FOR ALL REFERENCED GROUNDING DETAILS AND SPECIFICATIONS.



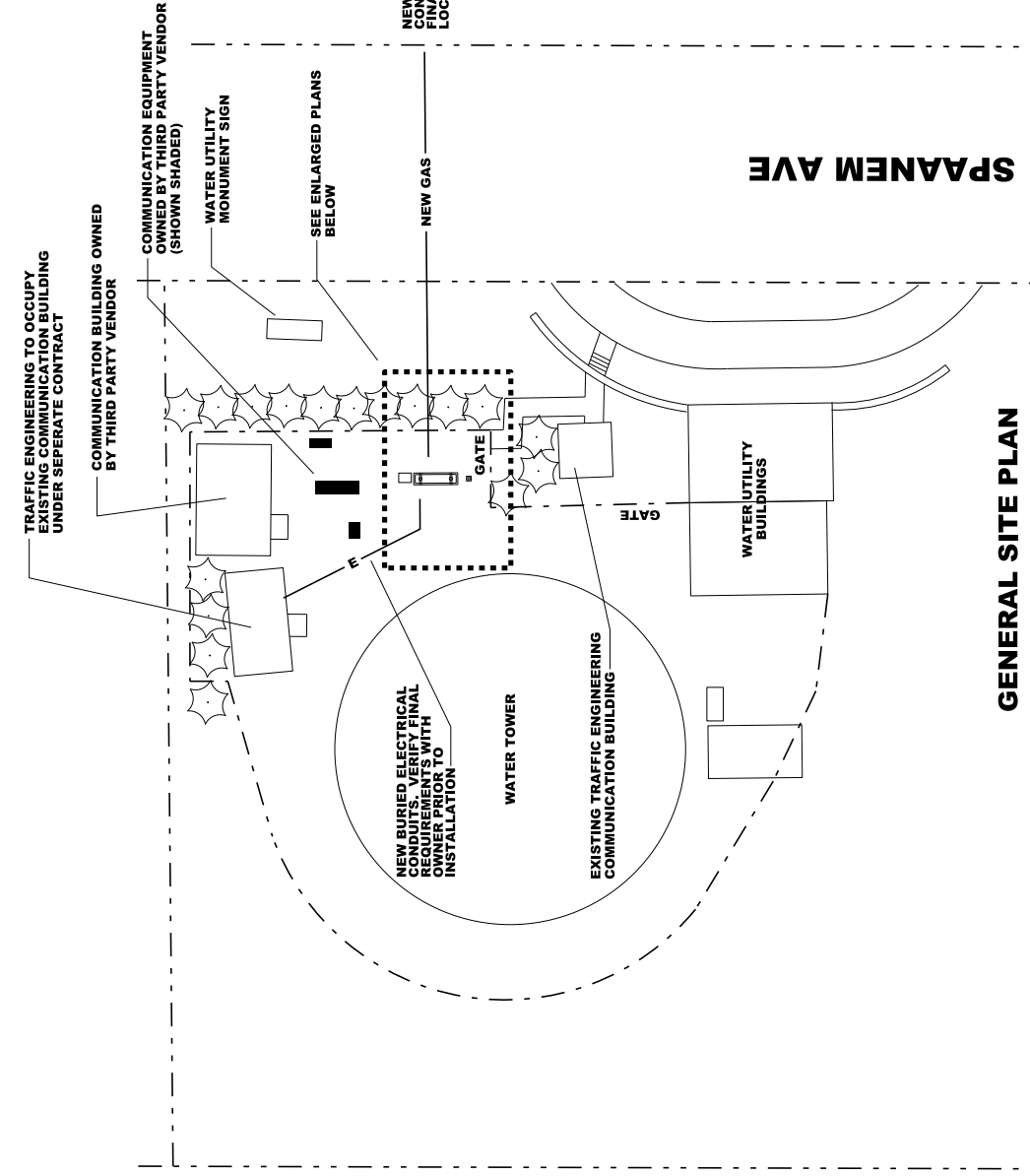
SCALE:
 11 x 17: 1" = 20'

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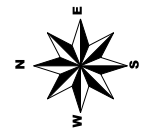
WIS. STATUTE 182.0175 (1974)
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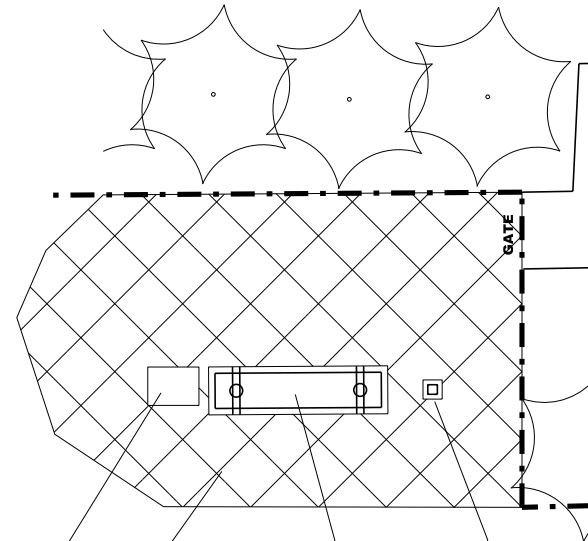
NEW GAS SERVICE BY MG&E. CONTRACTOR SHALL VERIFY FINAL INSTALL AND METER LOCATION WITH MG&E



GENERAL SITE PLAN
SCALE: 1" = 40'

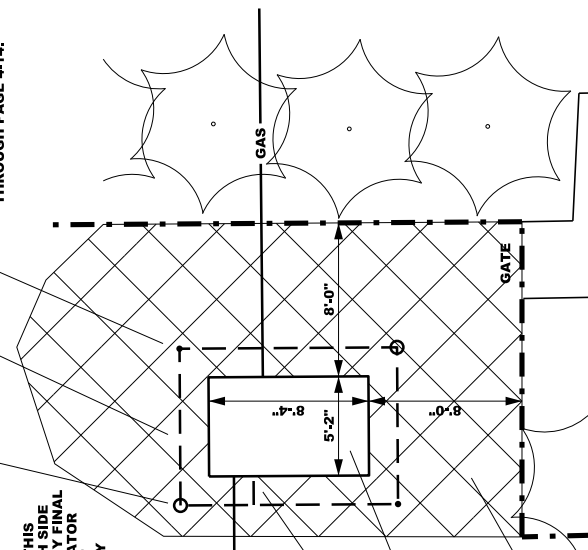


- REMOVE EXISTING 24"x32" CONCRETE BASE, AND GALVANIZED COVER
- REMOVE AND STOCK PILE EXISTING MOUNTING STONE FOR REUSE (SHOWN CROSS HATCHED)
- NOTE:
ALL REMOVALS SHALL INCLUDE REMOVING EXISTING CONDUITS MINIMUM OF 12" BELOW GRADE AND CAPPING REMAINDER
- REMOVE EXISTING STEEL FRAME AND SUPPORT TUBES TO MINIMUM 12" BELOW GRADE
- REMOVE EXISTING 6"x6" STEEL TUBE BASE AND MOUNTING PLATE. MINIMUM 12" BELOW GRADE



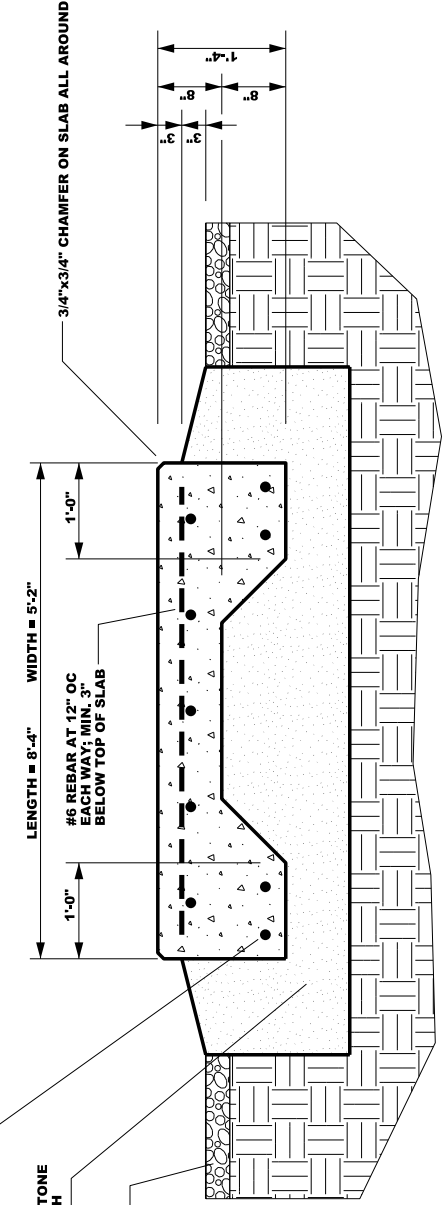
DEMOLITION PLAN
SCALE: 1" = 10'

- NOTE:
ORIENTATION OF GENERATOR FOR THIS DETAIL HAS AIR EXHAUST ON SOUTH SIDE OF PAD. CONTRACTOR SHALL VERIFY FINAL ORIENTATION OF EXTERNAL GENERATOR PRIOR TO BEGINNING WORK. ADJUST CONNECTION POINTS AS NECESSARY
- PROVIDE PRE-GROUNDED CONNECTION FOR GENERATOR GROUNDING
- NEW CONCRETE PAD FOR EXTERIOR GENERATOR. SEE TYPICAL CROSS SECTION BELOW
- PROVIDE NEW LANDSCAPE FABRIC AS NEEDED AROUND GENERATOR PAD AND REMOVAL AREAS TO EXISTING LANDSCAPING STONE



CONSTRUCTION PLAN
SCALE: 1" = 10'

- (2) #6 REBAR CONTINUOUS IN FOOTING OF SLAB. MIN 3" ABOVE BOTTOM OF FOOTING
- NEW 1'-1/2" CRUSHED STONE BASE COMPACTED WITH PLATE TAMPER
- REPLACE EXISTING LANDSCAPE STONE



TYPICAL SECTION THRU GENERATOR PAD
SCALE: 1" = 2'

- NOTES:**
1. CONTRACTOR SHALL SPECIFICALLY REFERENCE CHAPTER 4 OF EXHIBIT 'E' FOR ALL REFERENCED GROUNDING DETAILS AND SPECIFICATIONS.
 2. CONTRACTOR SHALL VERIFY AND INSTALL ALL ROUGH-IN AND EXHIBIT 'E' FOR ALL PRIOR TO POURING GENERATOR PAD.
 3. GENERATOR PAD SHALL BE AS DESIGNED WITH 2500 PSI CONCRETE OR BETTER. CONTRACTOR SHALL PROVIDE PROJECT MANAGER WITH 7 DAY AND 14 DAY TEST CYLINDER REPORTS.

TE GENERATOR PAD SPANEM AVENUE	CITY ENGINEERING MUNIS 45019
PLANS AND DETAILS	
5	

SCALE:
11 x 17: AS NOTED