

CITY OF MADISON

CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

SHEET NO. PROJECT OVERVIEW SHEET NO. SHEET NO. GRADING PLAN **EROSION CONTROL PLAN** SHEET NO PLANTING PLAN SHEET NO. SHEET NO.

CONVEYANCE & EROSION CONTROL PLAN+PROFILE

WATER MAIN RELOCATION PLAN+PROFILE

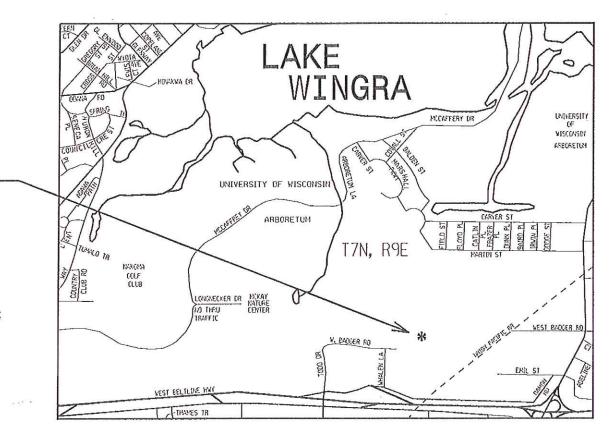
TOPOGRAPHIC SURVEY - BURSE SURVEY & ENGINEERING INC. 1 OF 2 TOPOGRAPHIC SURVEY - BURSE SURVEY & ENGINEERING INC. 2 OF 2

PROJECT LOCATION

TREATMENT STRUCTURE PLAN VIEW 13-15 TREATMENT STRUCTURE DETAILS

CHAIN LINK FENCE AND GATE DETAILS

ARBORETUM POND #3



UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS AND ARE SHOWN FOR REFERENCE ONLY, LOCATIONS MAY VARY IN FIELD, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE EVERY PRECAUTION TO AVOID EXISTING UTILITIES.

CITY PROJECT NO. 53W1035 CITY CONTRACT NO.6855

PUBLIC IMPROVEMENT PROJECT APPROVED

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

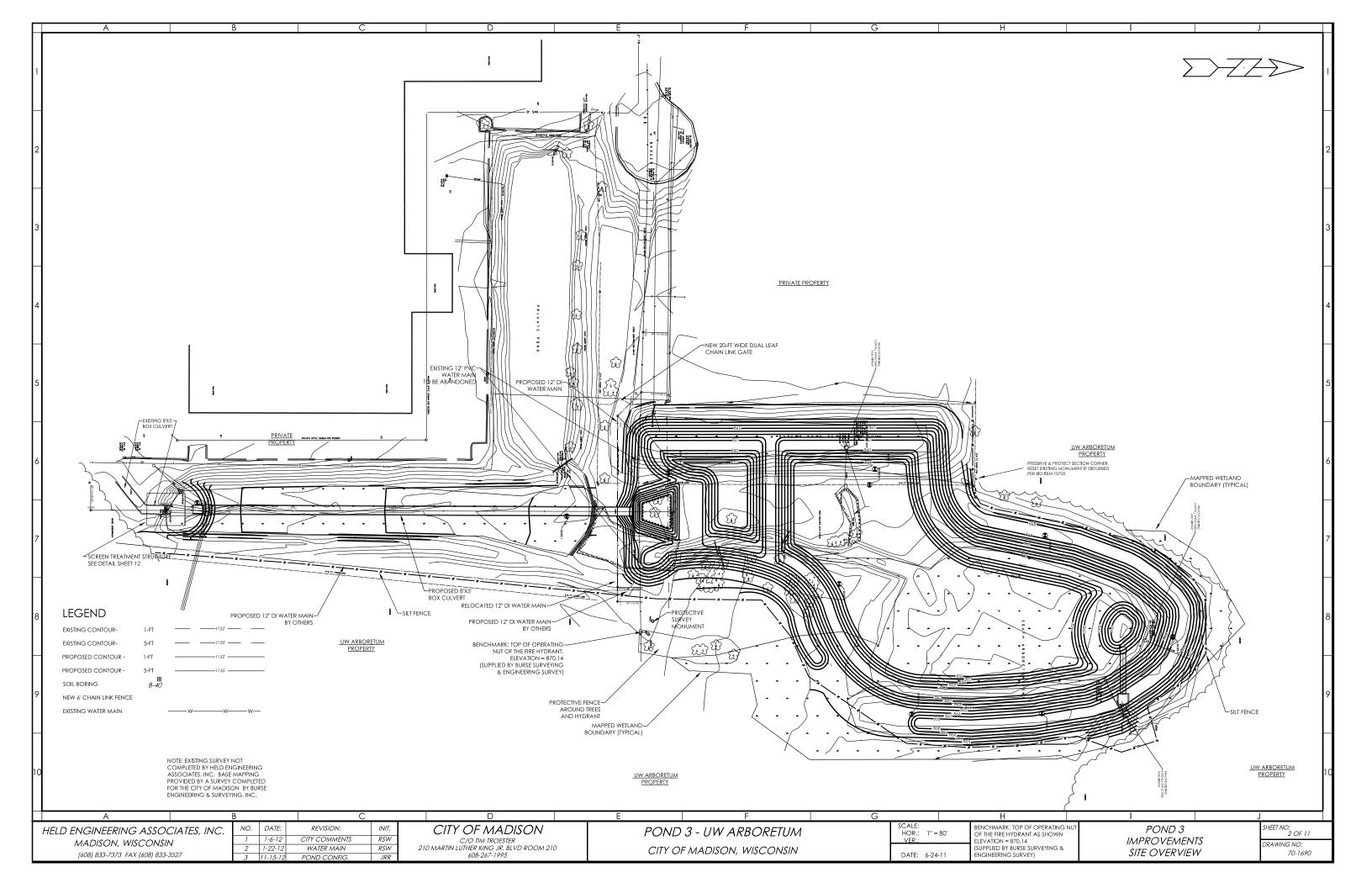
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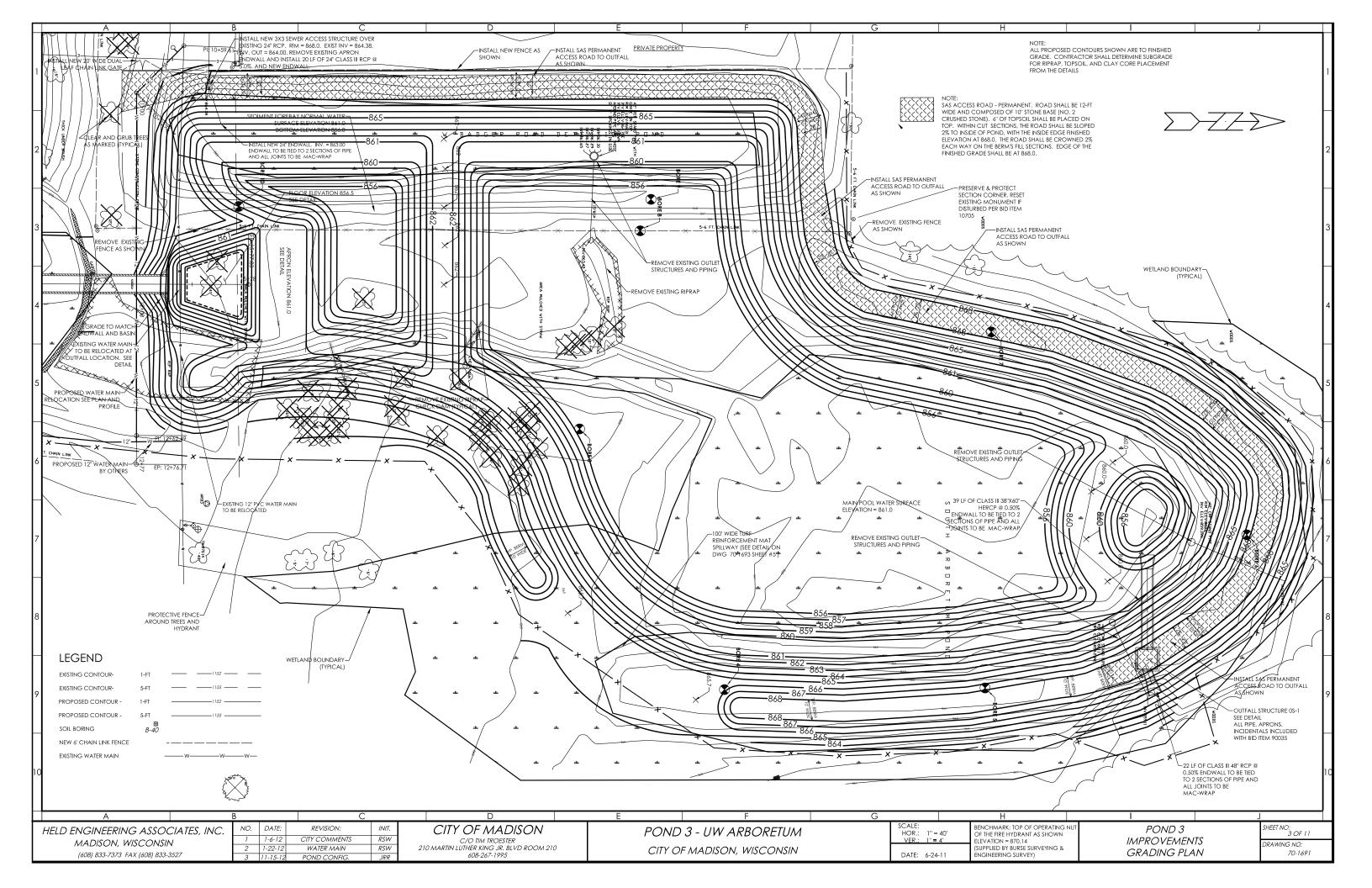
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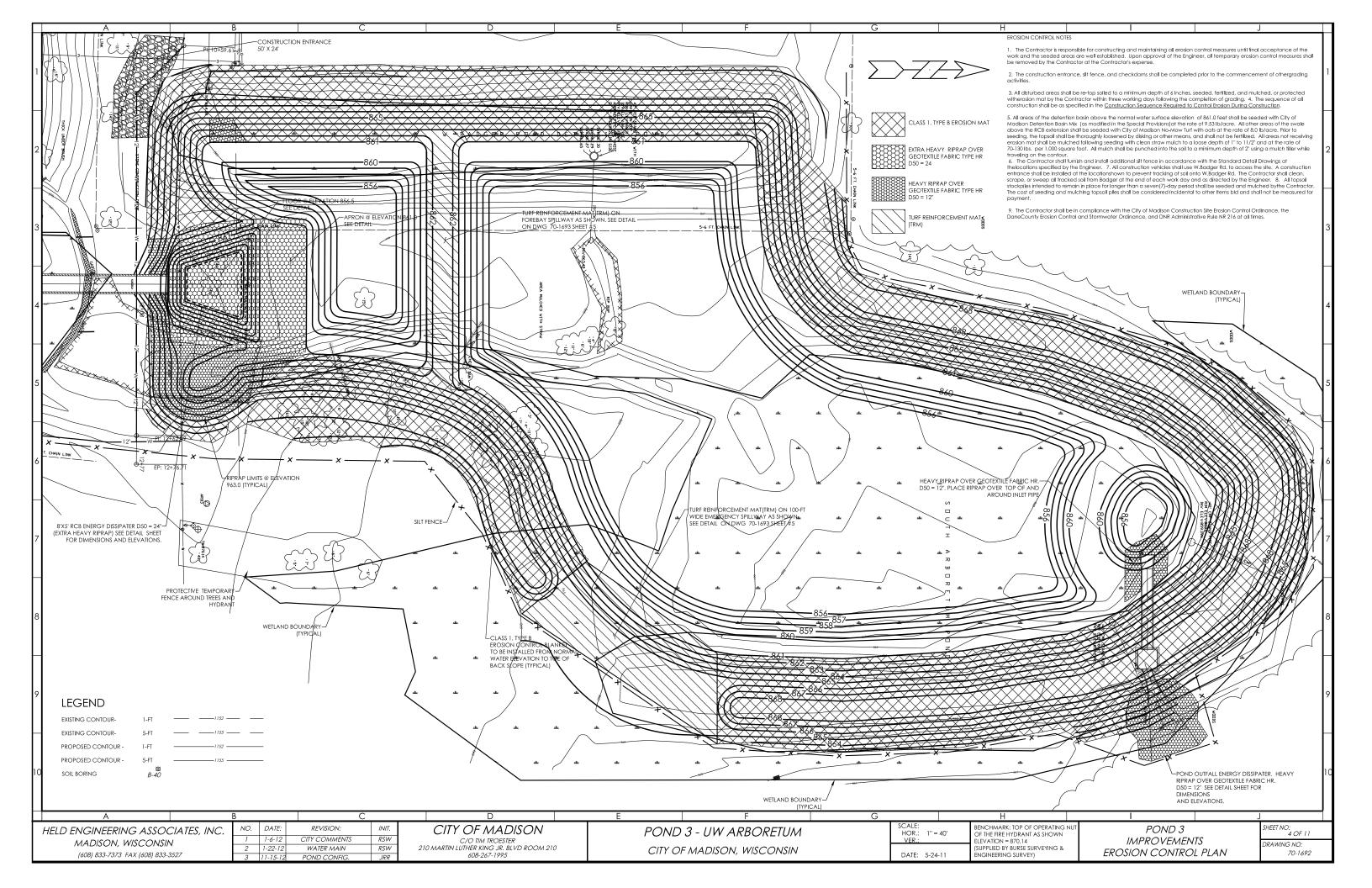
SHEETS 12-15

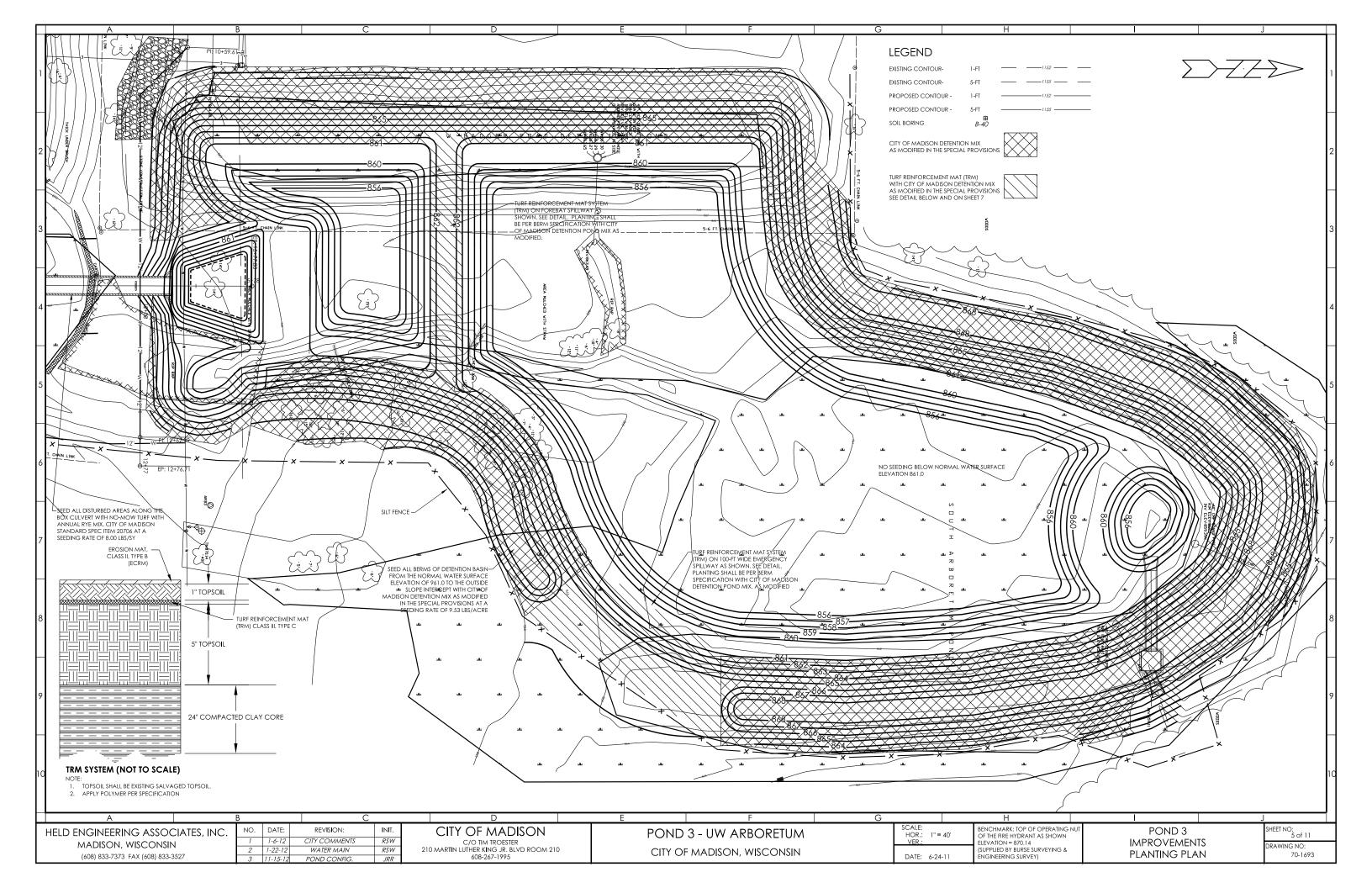
5HEETS 2-9 Revised 11/15/12 JR

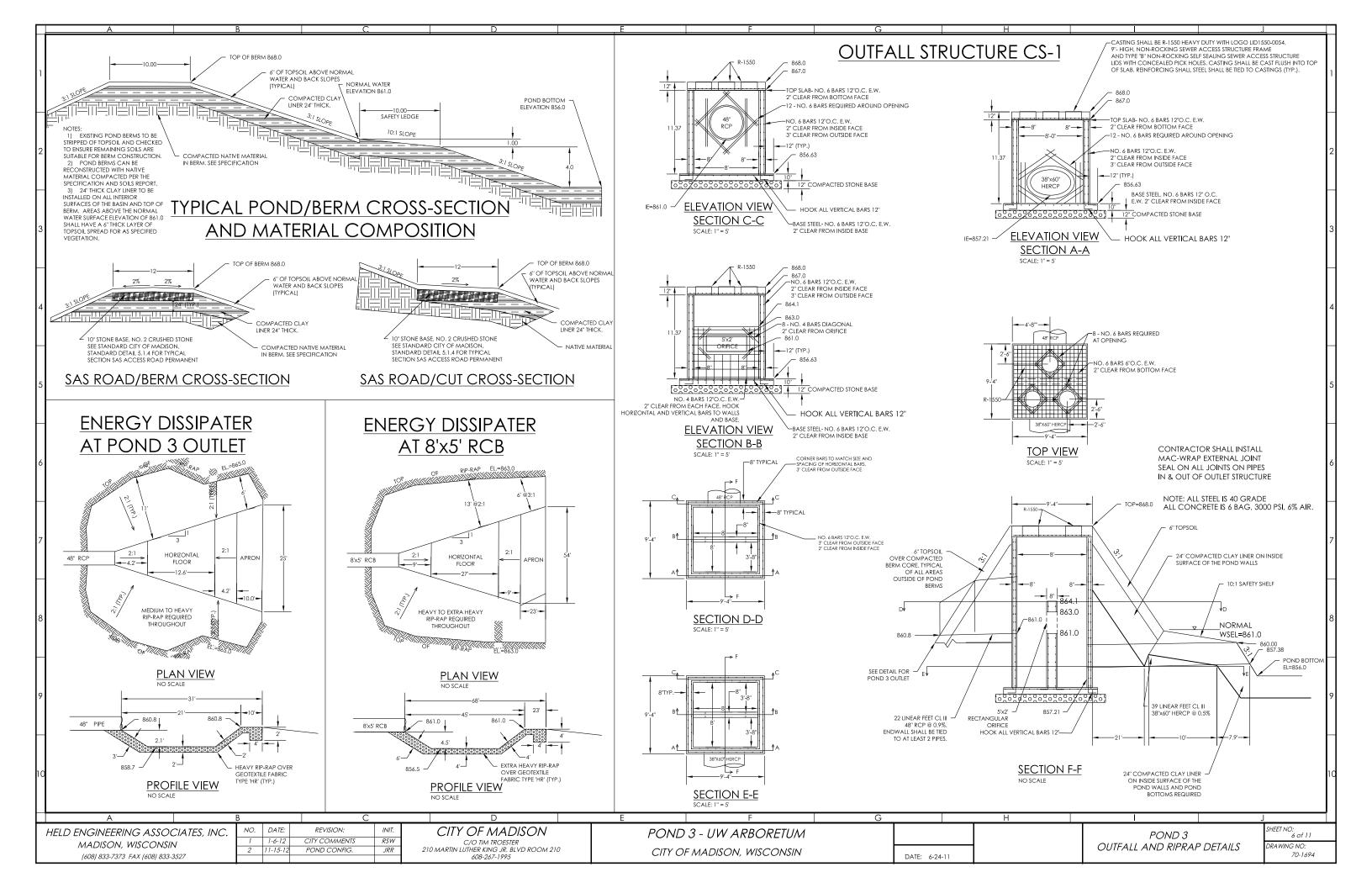
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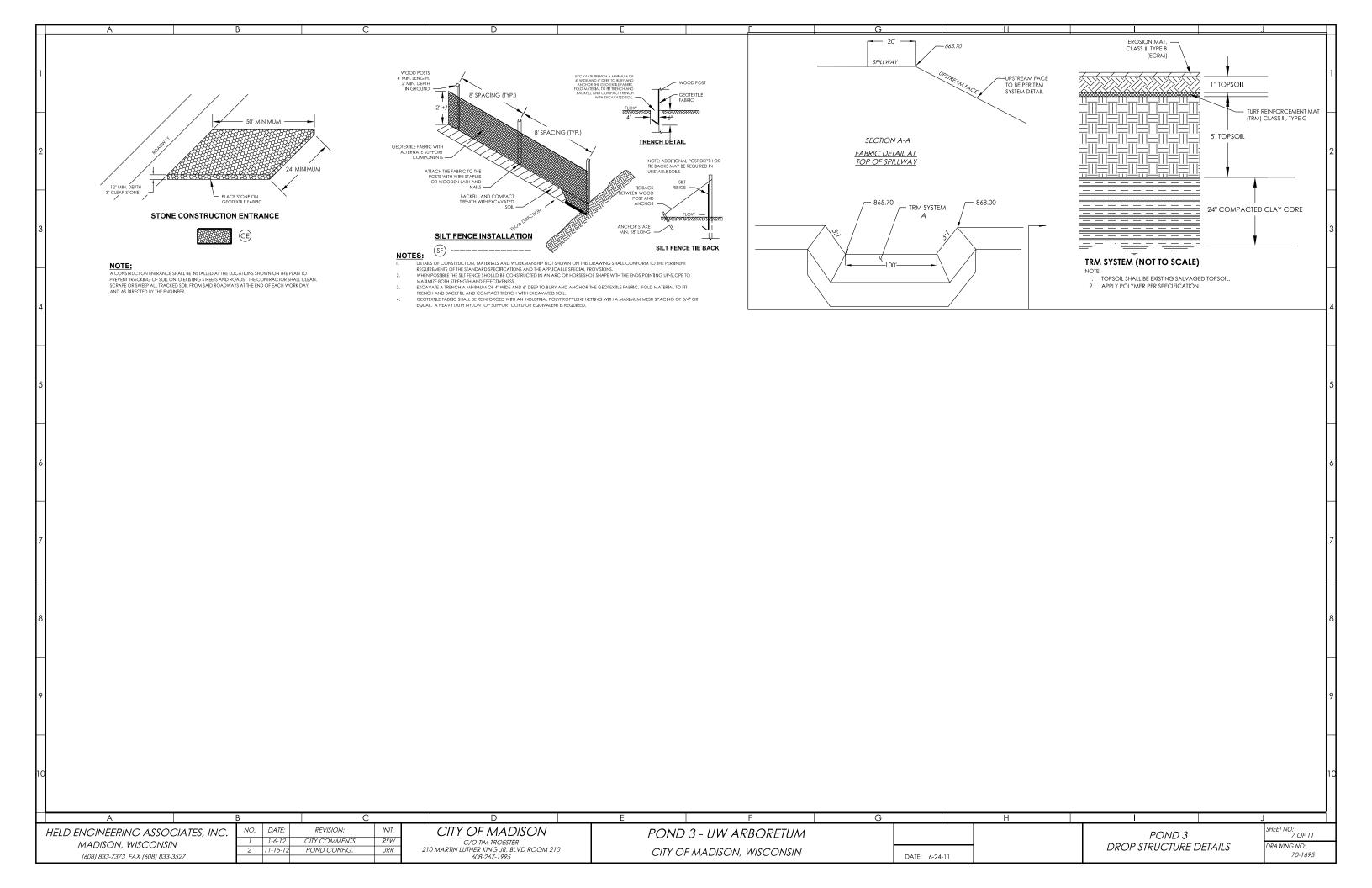


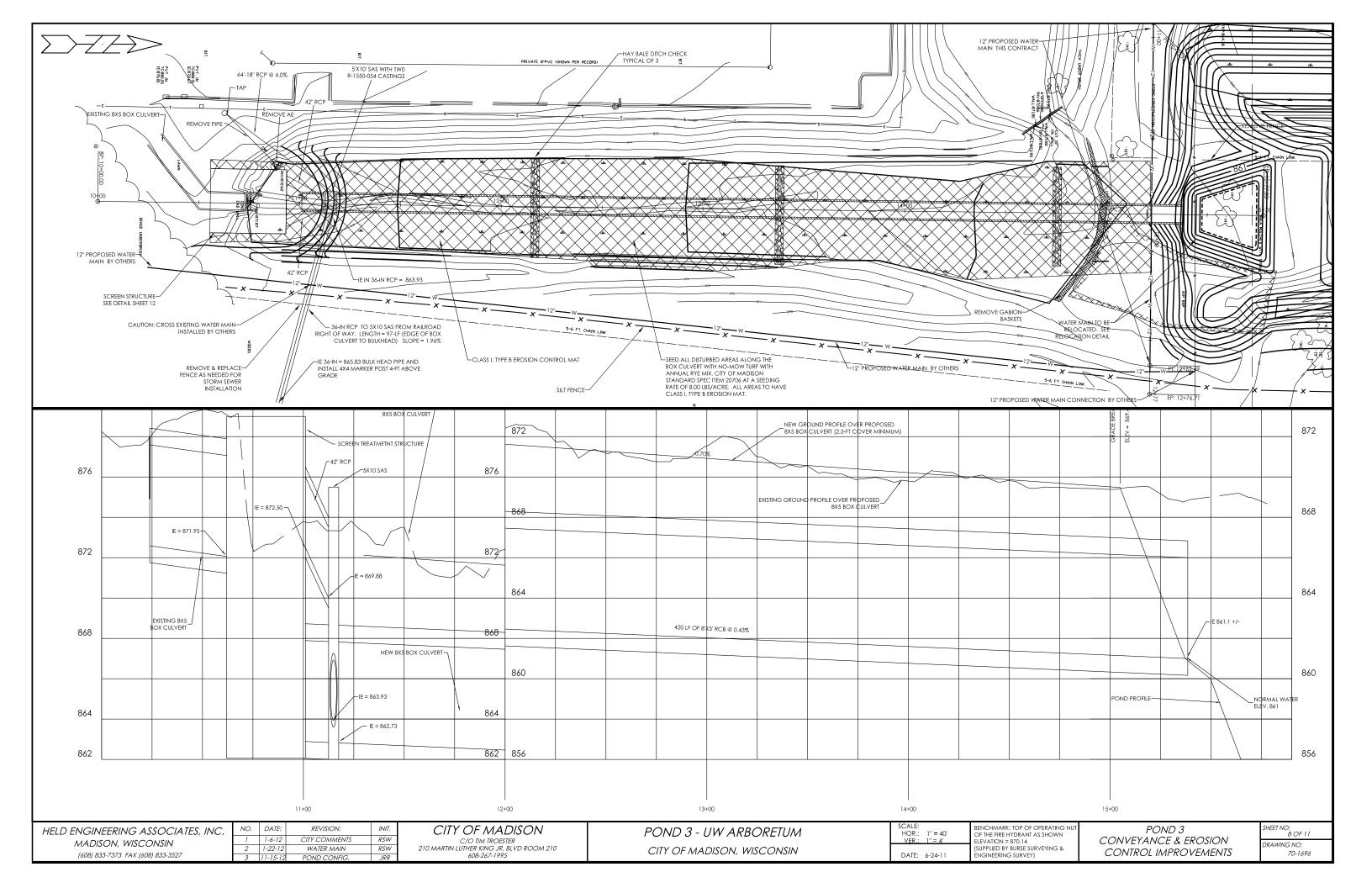


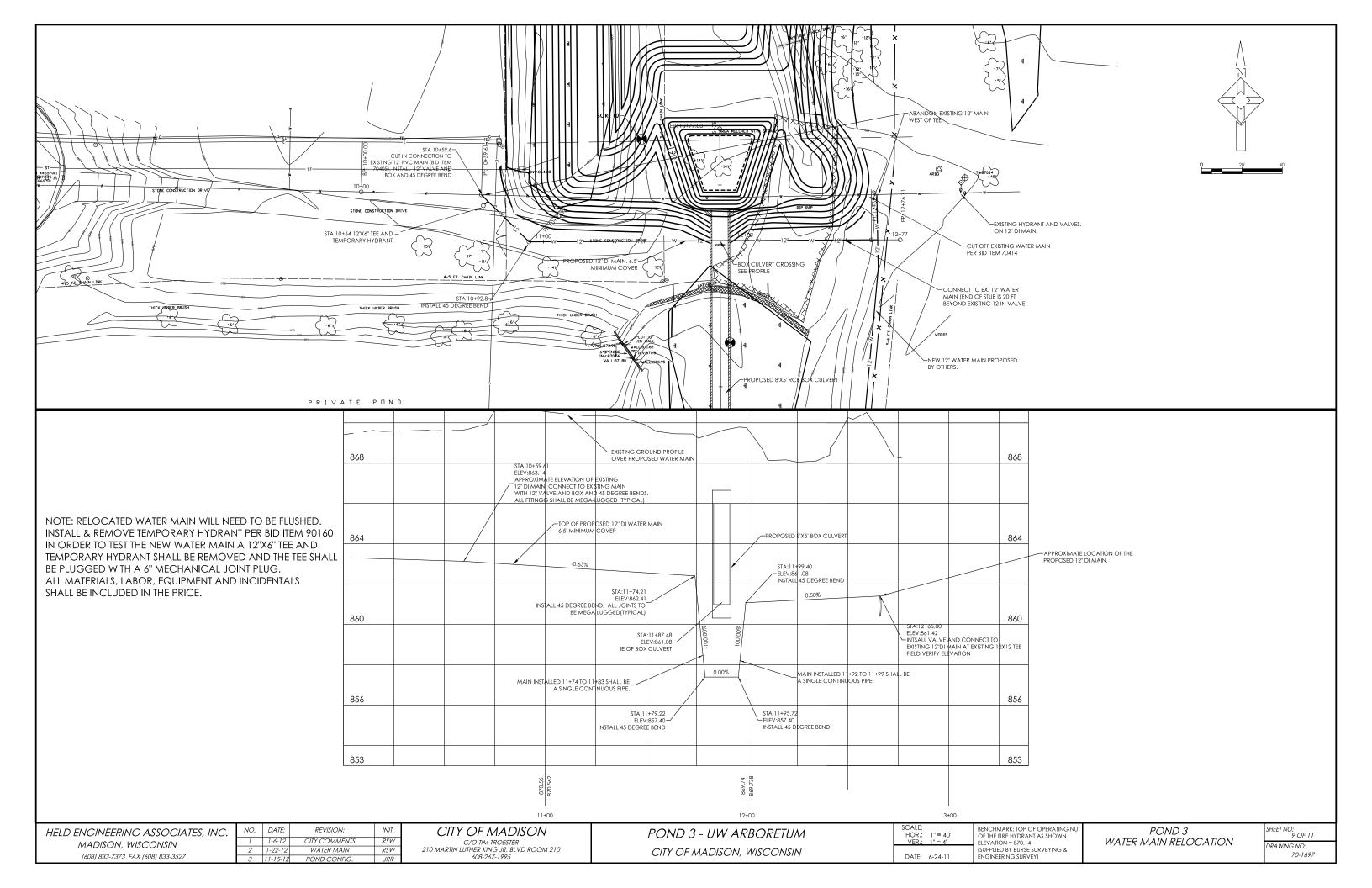


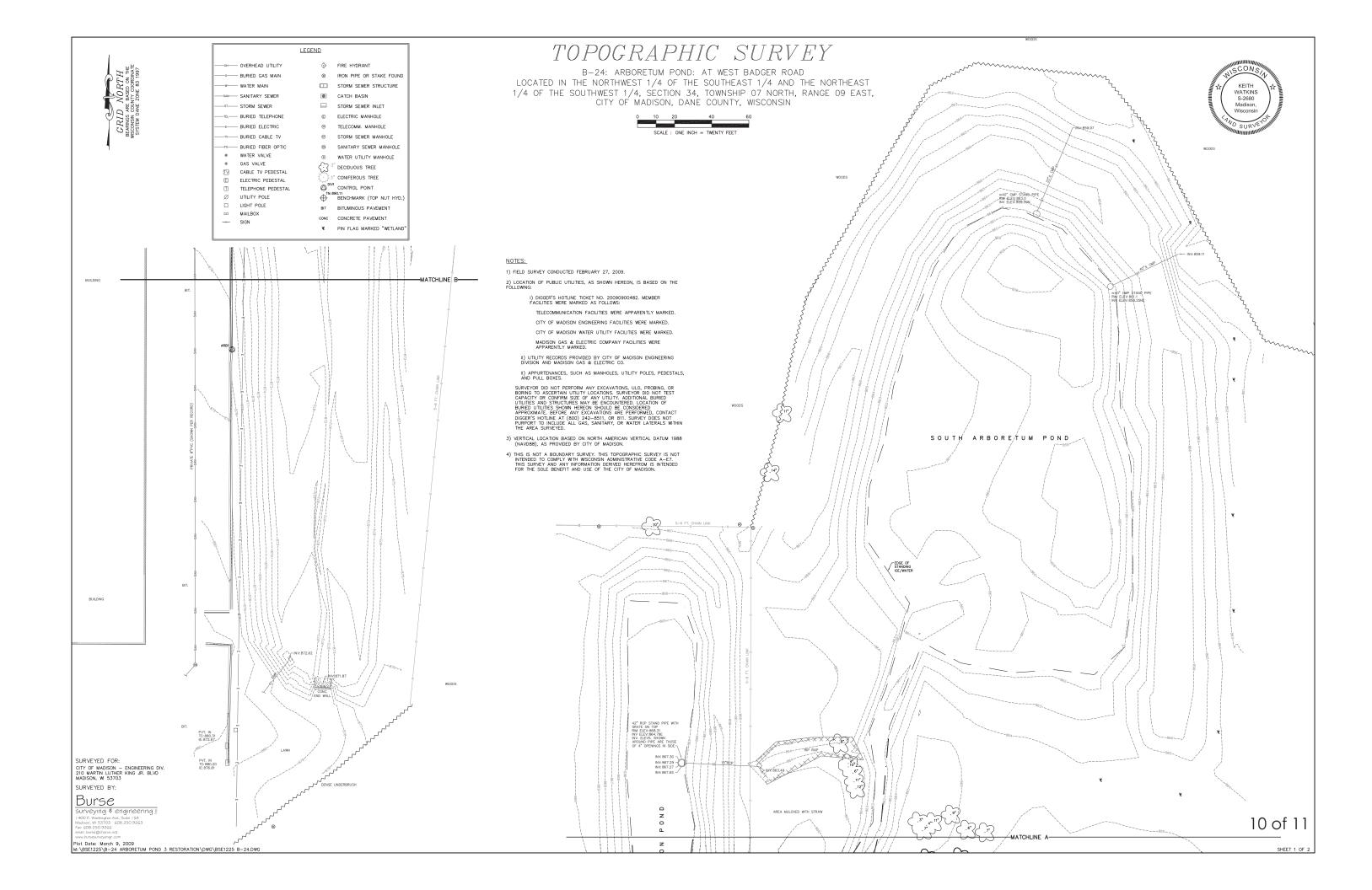


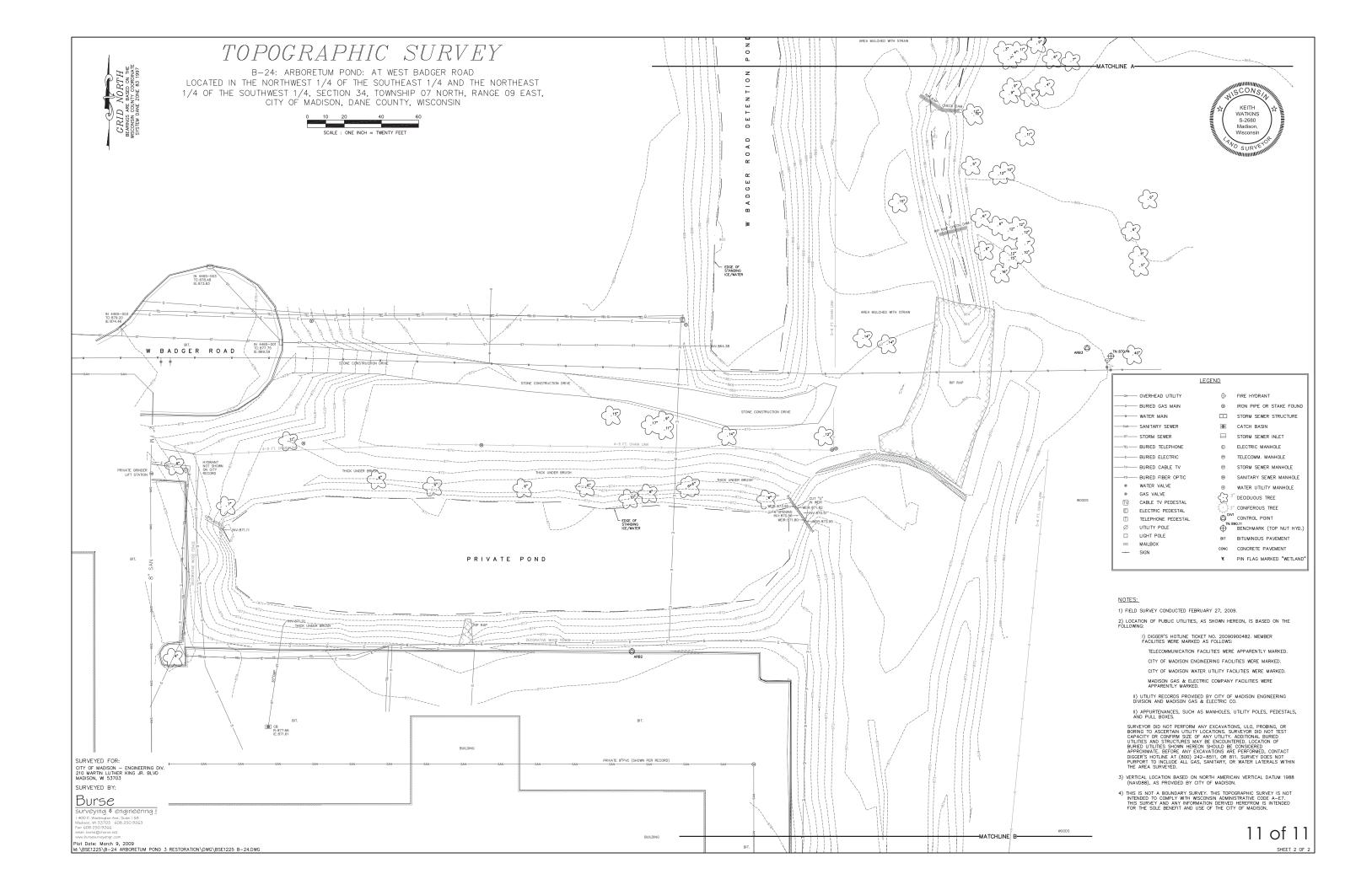


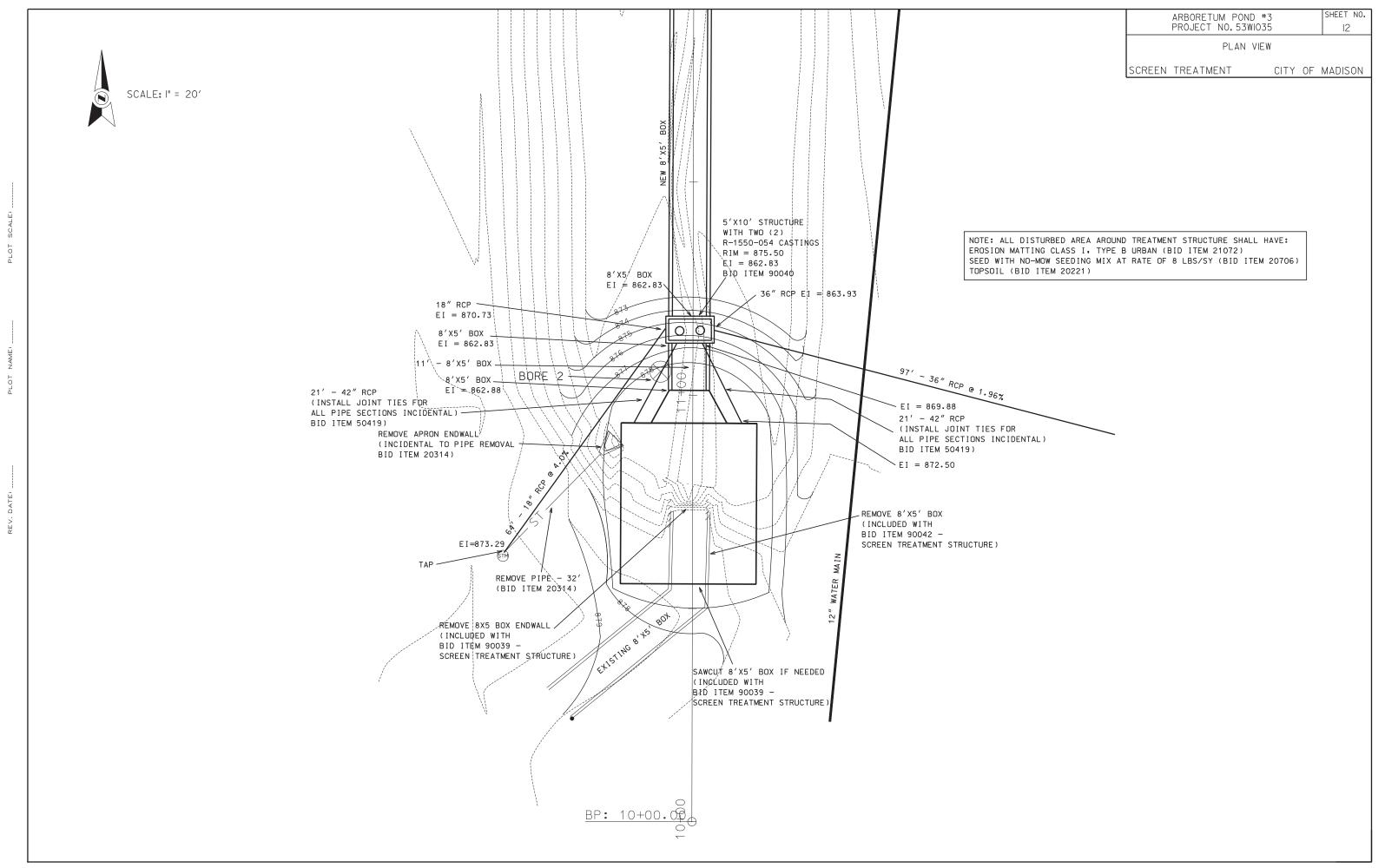


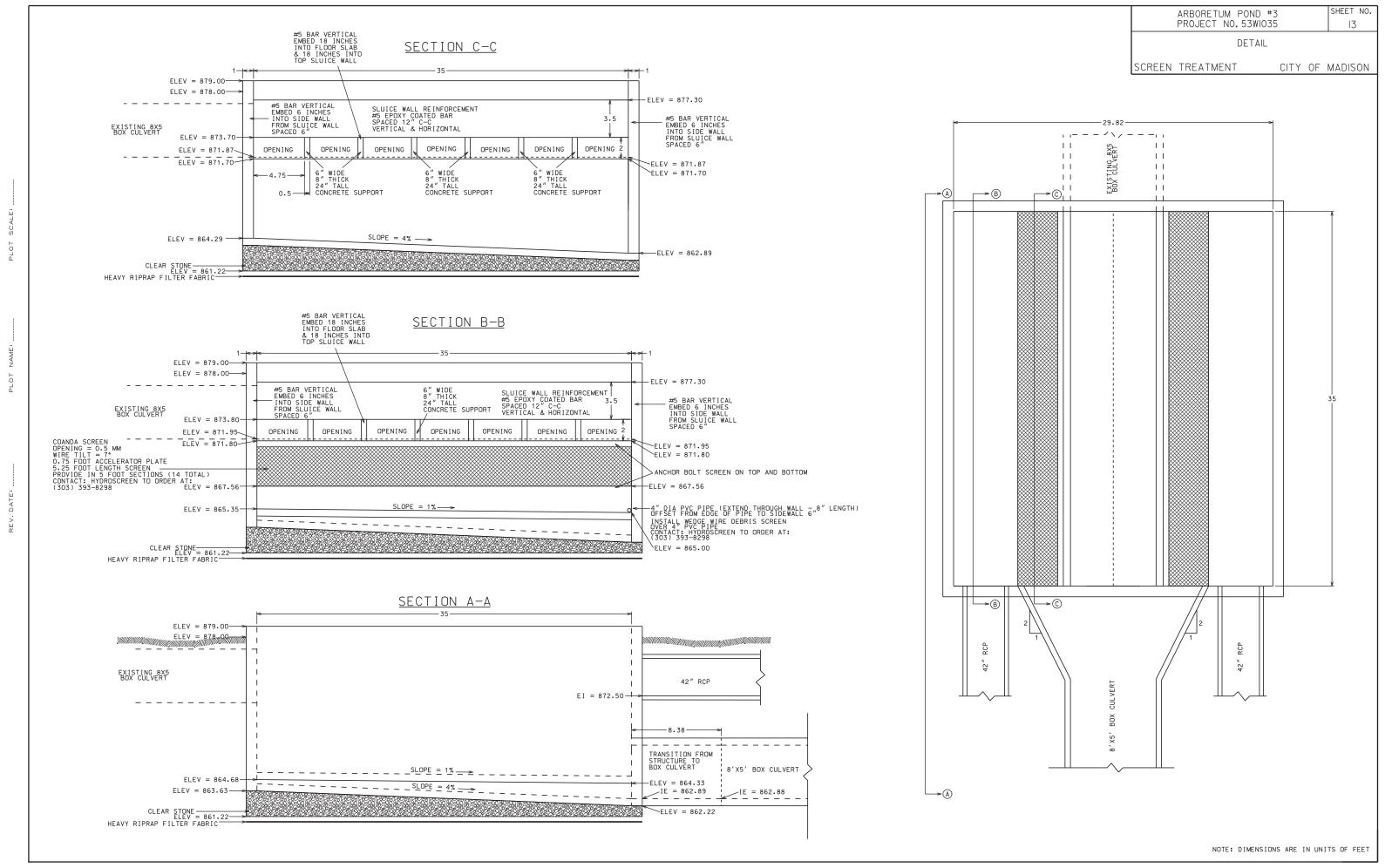




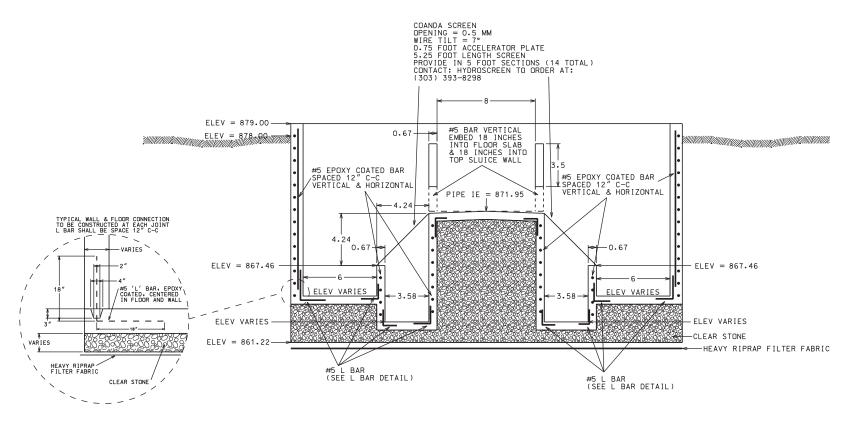


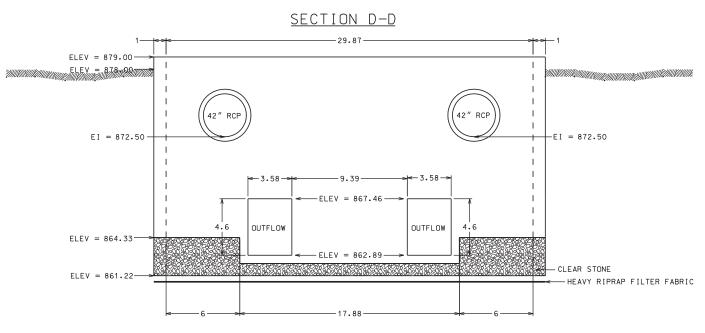


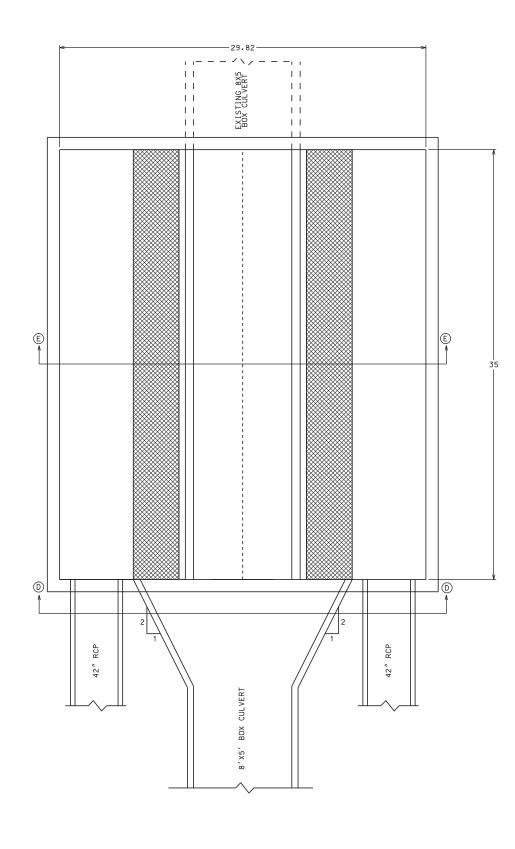




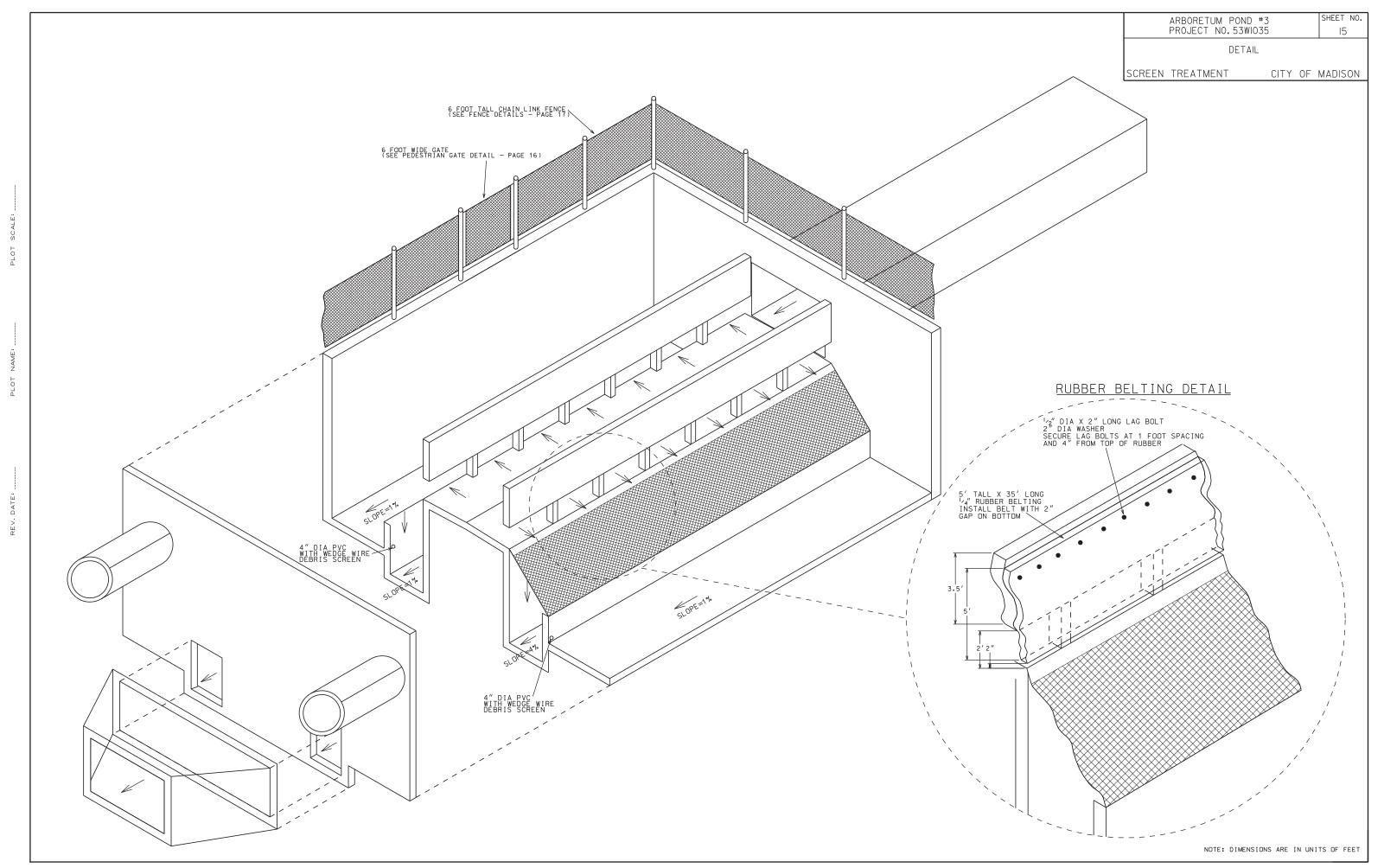
<u>SECTION E-E</u>

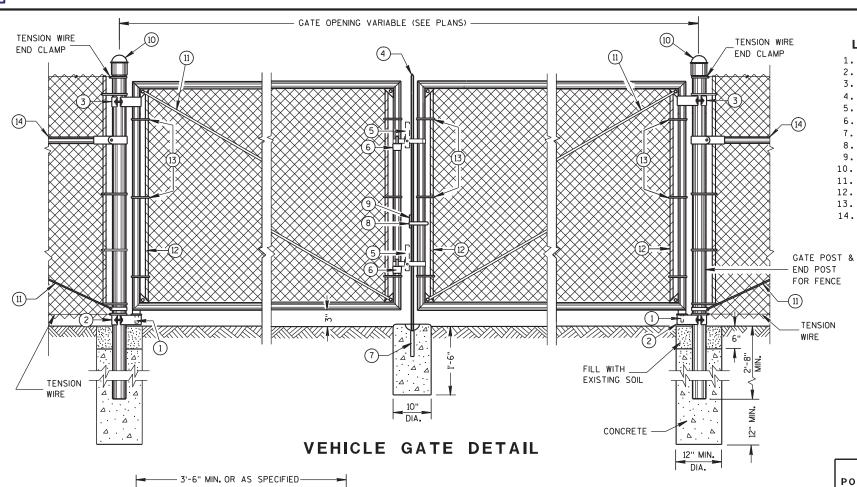






NOTE: DIMENSIONS ARE IN UNITS OF FEET





TENSION WIRE

GATE POST &

- END POST

FOR FENCE

TENSION

END CLAMP

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EOUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EOUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

GENERAL NOTES

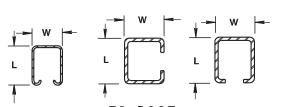
FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

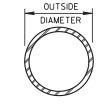
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.





SHEET 16

FS POST SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR FORMED STEEL FENCE POST

LEGEND

3. TOP HINGE

4. PLUNGER ROD 5. FULCRUM LATCH

6. FORK CATCH *

9. LOCK KEEPER 10. DOME TOPS

11. TRUSS RODS

12. TENSION BAR

13. TENSION BANDS 14. BRACE RAIL

7. PLUNGER ROD CATCH

8. LOCK KEEPER GUIDE

*NOT REQUIRED ON SINGLE

SWING PEDESTRIAN GATE

1. STRAIGHT PLUG
2. BOTTOM HINGE

POST TYPE	LENGTH (L)	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR ROUND STEEL FENCE POST

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 15 B 3-12

TENSION WIRE

END CLAMP

GATE POST &

TENSION

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CONCRETE

12" MIN.

FILL WITH

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

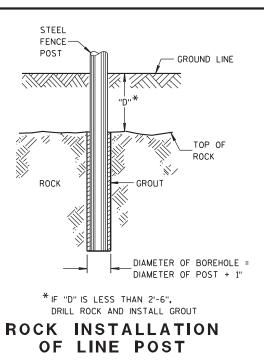
12" MIN.

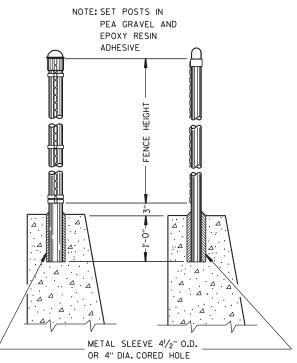
END POST

FOR FENCE

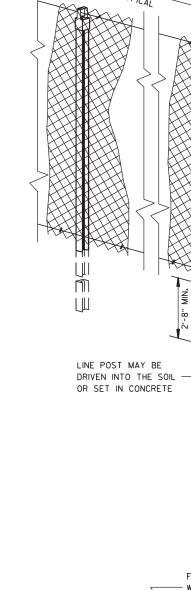
.D.D. 15 B 3-12a

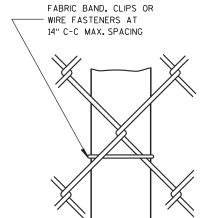












TENSION

WIRE

TRUSS ROD THREADED

FILL WITH

EXISTING SOIL

12" DIA.

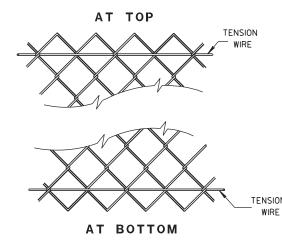
END, CORNER, ANGLE

INTERSECTION & INTERMEDIATE

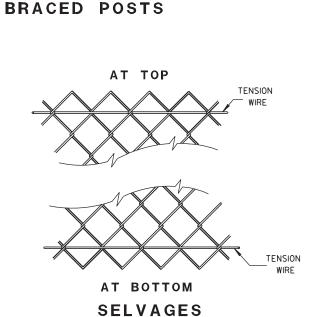
TAKE UP ADAPTER

BRACE CLAMP





B



TRUSS ROD

UP ADAPTER

TENSION WIRE END

TURNS TENSION WIRE

- CLAMPS OR MIN. 3

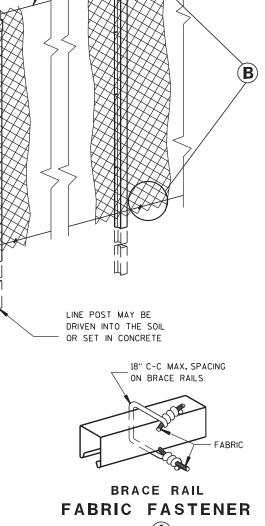
THREADED TAKE -

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BRACE

RAIL -

TYPICAL



FABRIC

FASTENER

BRACE

LINE

POST

TENSION WIRE

RAIL

SHEET 17





TENSION WIRE END CLAMP

FE	ENCE CHAIN LINK
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/19/2010	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWA	ENGINEER

3-12b

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