





































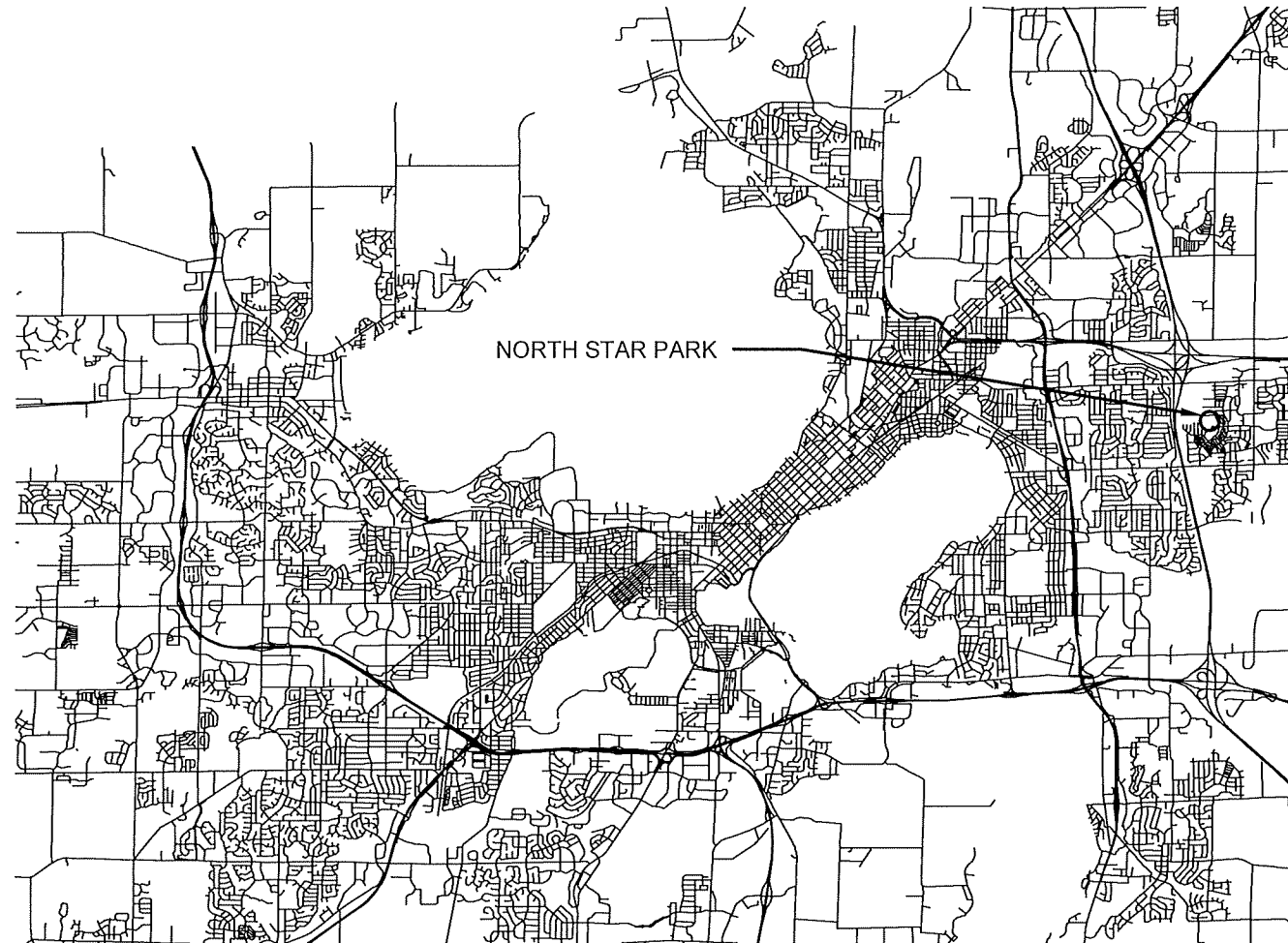


LEGEND

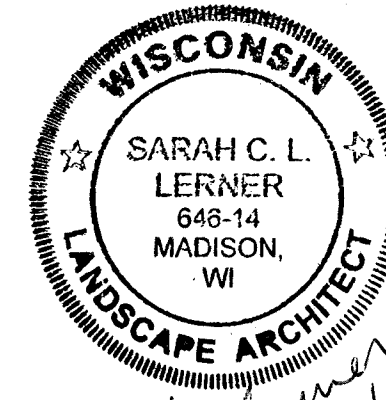
-  EX. ELECTRICAL HAND HOLE
-  EX. ELECTRICAL PEDESTAL
-  EX. TELEPHONE PEDESTAL
-  EX. TREE
-  EX. WATER HYDRANT
-  EX. WATER VALVE
-  EX. PROPERTY LINE
-  EX. EASEMENT
-  EX. FENCE LINE
-  EX. TREE LINE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. ABANDONED UTILITY
-  EX. ELECTRIC
-  EX. FIBER OPTIC
-  EX. NATURAL GAS
-  EX. OVERHEAD LINE
-  EX. SANITARY SEWER
-  EX. STORM SEWER
-  EX. CABLE TV
-  EX. UNDERGROUND TELEPHONE
-  EX. WATER LINE
-  EX. GRAVEL
-  EX. CONCRETE
-  PRO. H INLET
-  PRO. SPOT ELEVATION
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  PRO. FENCE
-  PRO. GRADING LIMITS
-  PRO. SILT SOCK
-  PRO. CONSTRUCTION FENCE
-  PRO. STORM SEWER
-  PRO. ASPHALT
-  PRO. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. BOULDER RETAINING WALL
-  REMOVE EX. TOPSOIL

**NORTH STAR
DOG PARK
439 MILKY WAY
MADISON, WI 53718**

**17162-51-130, 17123-51-130, 17365-51,
19011-51-130, 12646-86-140**



DESIGNED BY:



Sarah Lerner
8/29/19

City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703



PROJECT:

**NORTH STAR
DOG PARK**

**439 MILKY WAY
MADISON, WI 53718**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

SHEET SCHEDULE

Sheet #	Sheet Title
1.0	Existing Conditions
2.0	Demolition and Protection Plan
3.0	Site Plan
4.0	Erosion Control Plan
5.0	Overall Grading Plan
5.1	Parking Lot Grading Plan
6.0	Storm Sewer Utility Plan
7.0	Fence Details
8.0	Pavement Section
9.0	Design Calculations

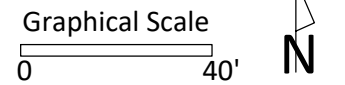
ITEM	DATE
ADVERTISED TO BID: SCL	08/29/2019

PUBLIC WORKS PROJECT #:

8441

SHEET TITLE:

SHEET NUMBER:



PROJECT:

*NORTH STAR
 DOG PARK*

*439 MILKY WAY
 MADISON, WI 53718*

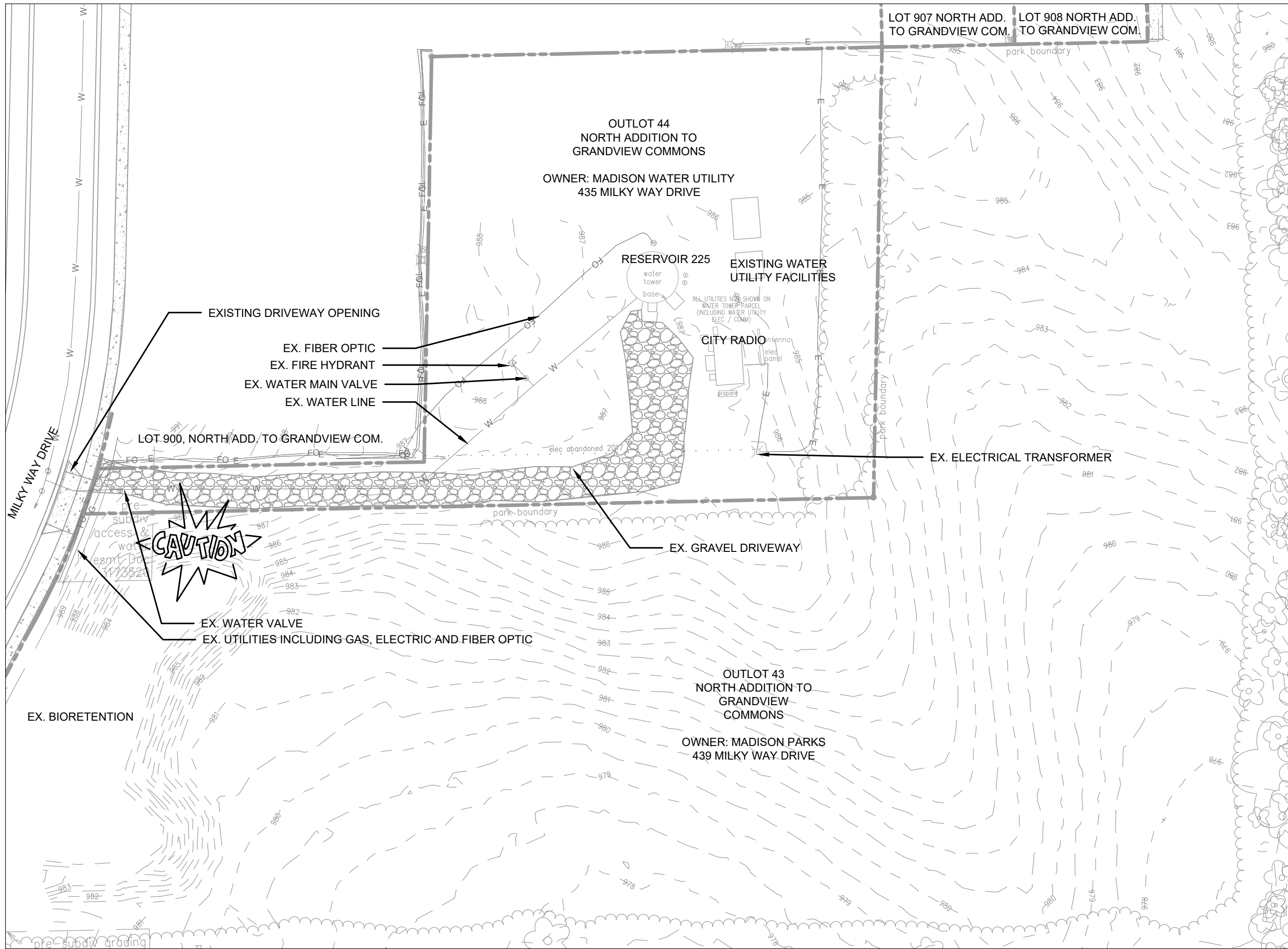
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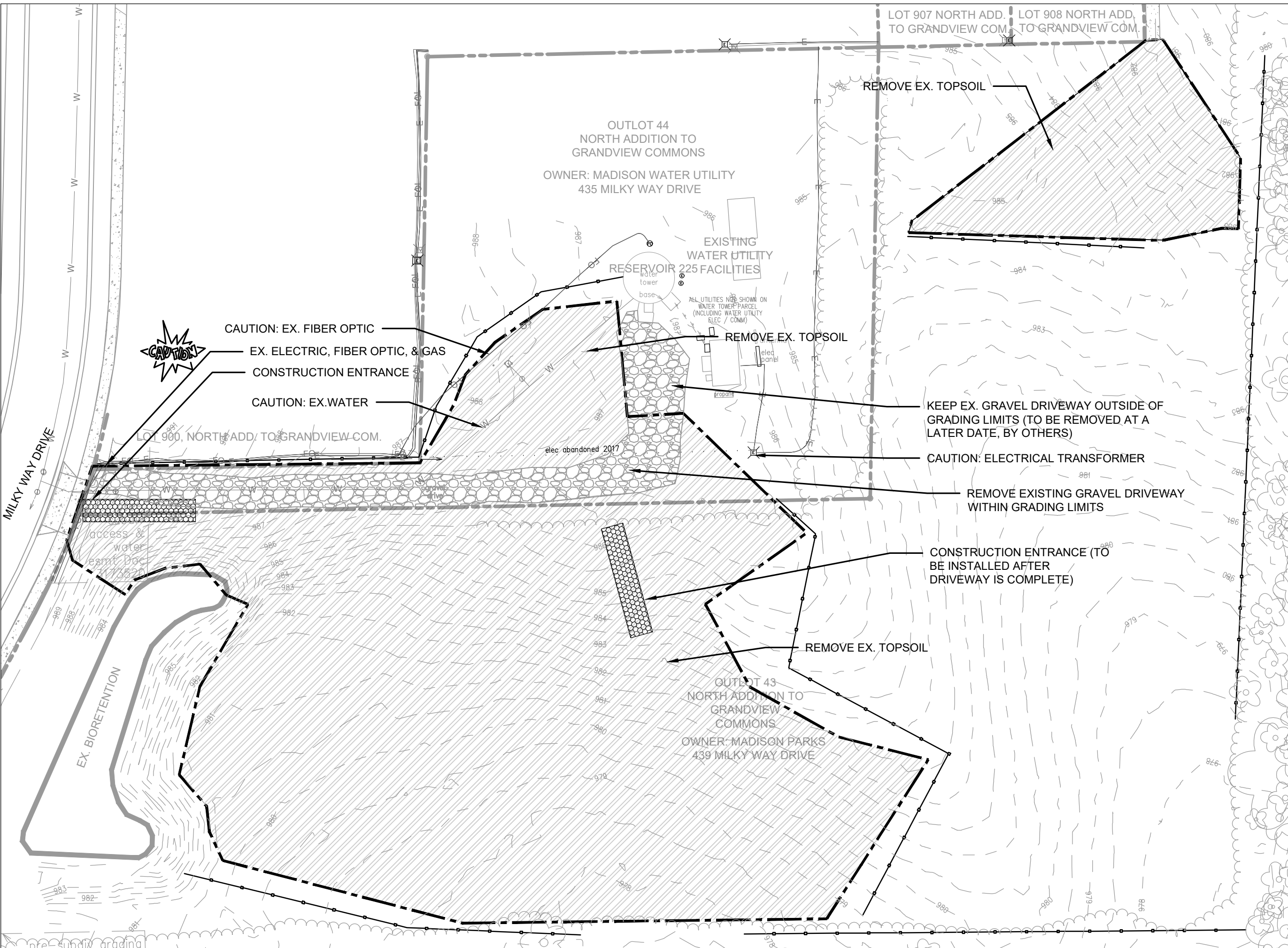
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PUBLIC WORKS PROJECT #:
8441

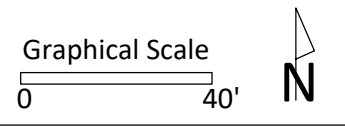
SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
1.0





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PROJECT:
NORTH STAR DOG PARK

**439 MILKY WAY
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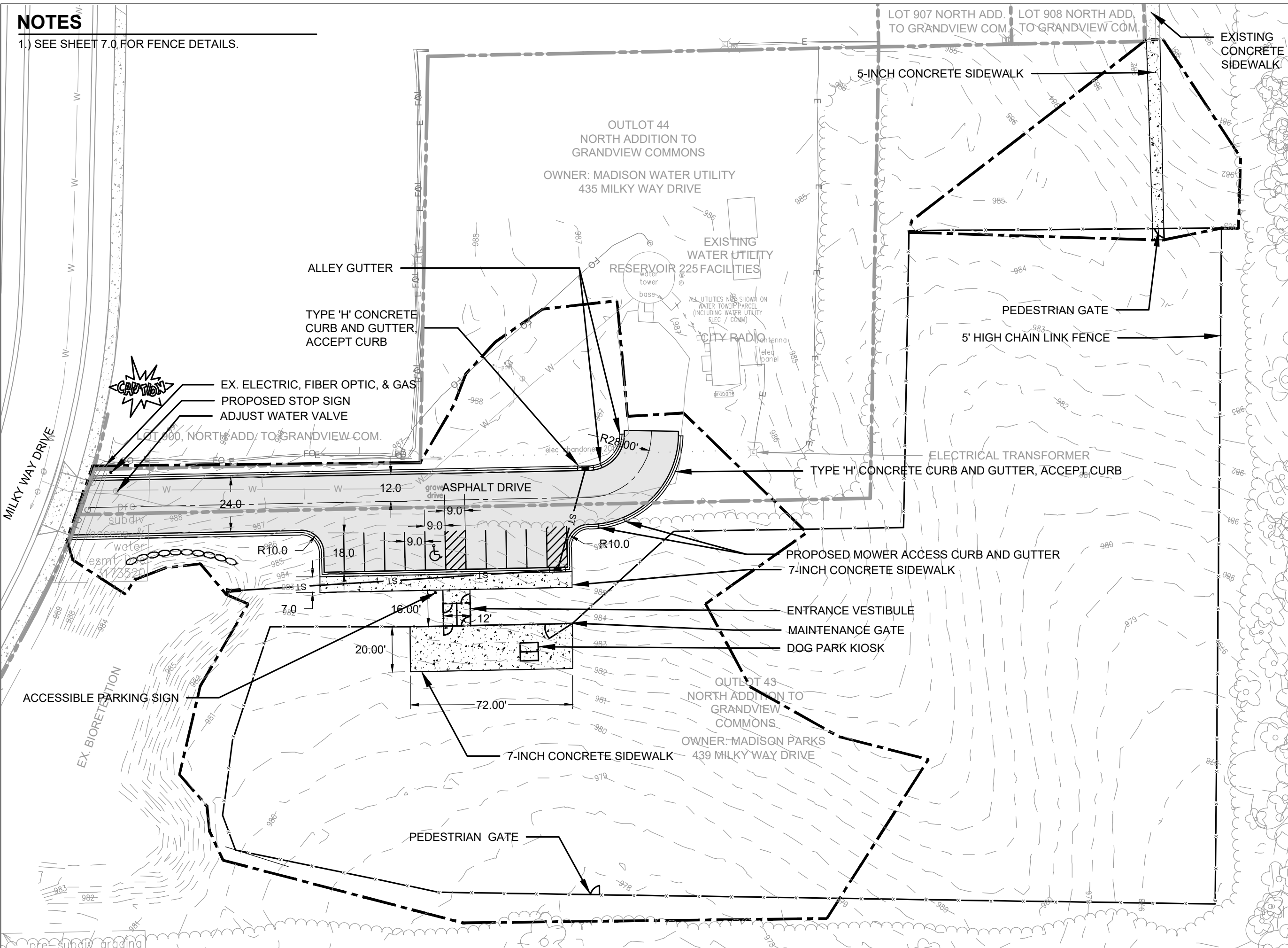
PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

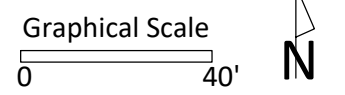
SHEET NUMBER:
2.0

NOTES

1.) SEE SHEET 7.0 FOR FENCE DETAILS.



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PROJECT:
NORTH STAR DOG PARK

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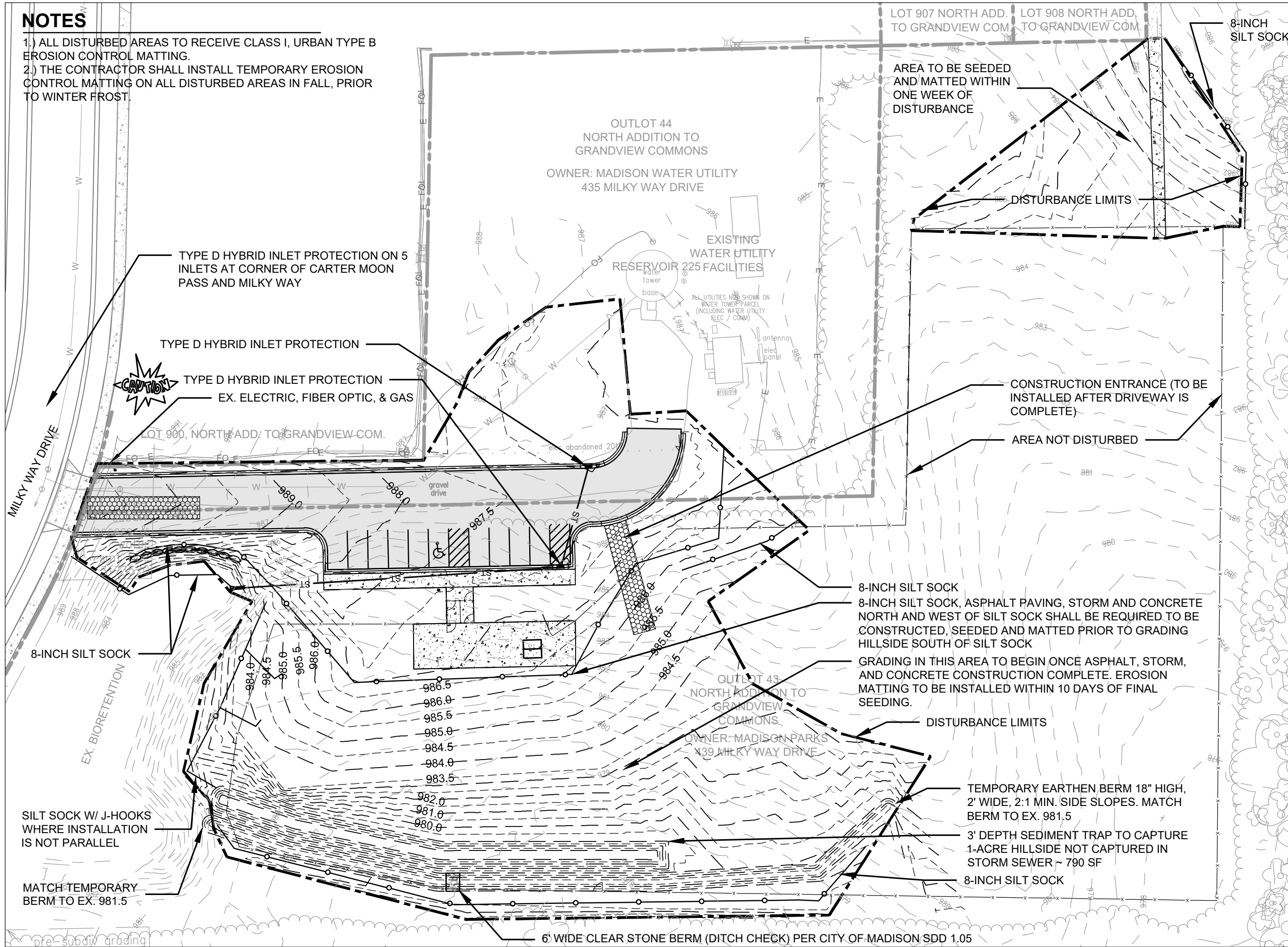
PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
SITE PLAN

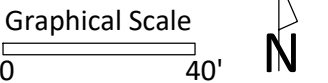
SHEET NUMBER:
3.0

NOTES

- 1.) ALL DISTURBED AREAS TO RECEIVE CLASS I, URBAN TYPE B EROSION CONTROL MATTING.
- 2.) THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MATTING ON ALL DISTURBED AREAS IN FALL, PRIOR TO WINTER FROST.



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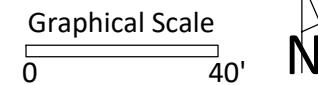
PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
EROSION CONTROL PLAN

SHEET NUMBER:
4.0

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play
**MADISON
 PARKS**



PROJECT:

*NORTH STAR
 DOG PARK*

*439 MILKY WAY
 MADISON, WI 53718*

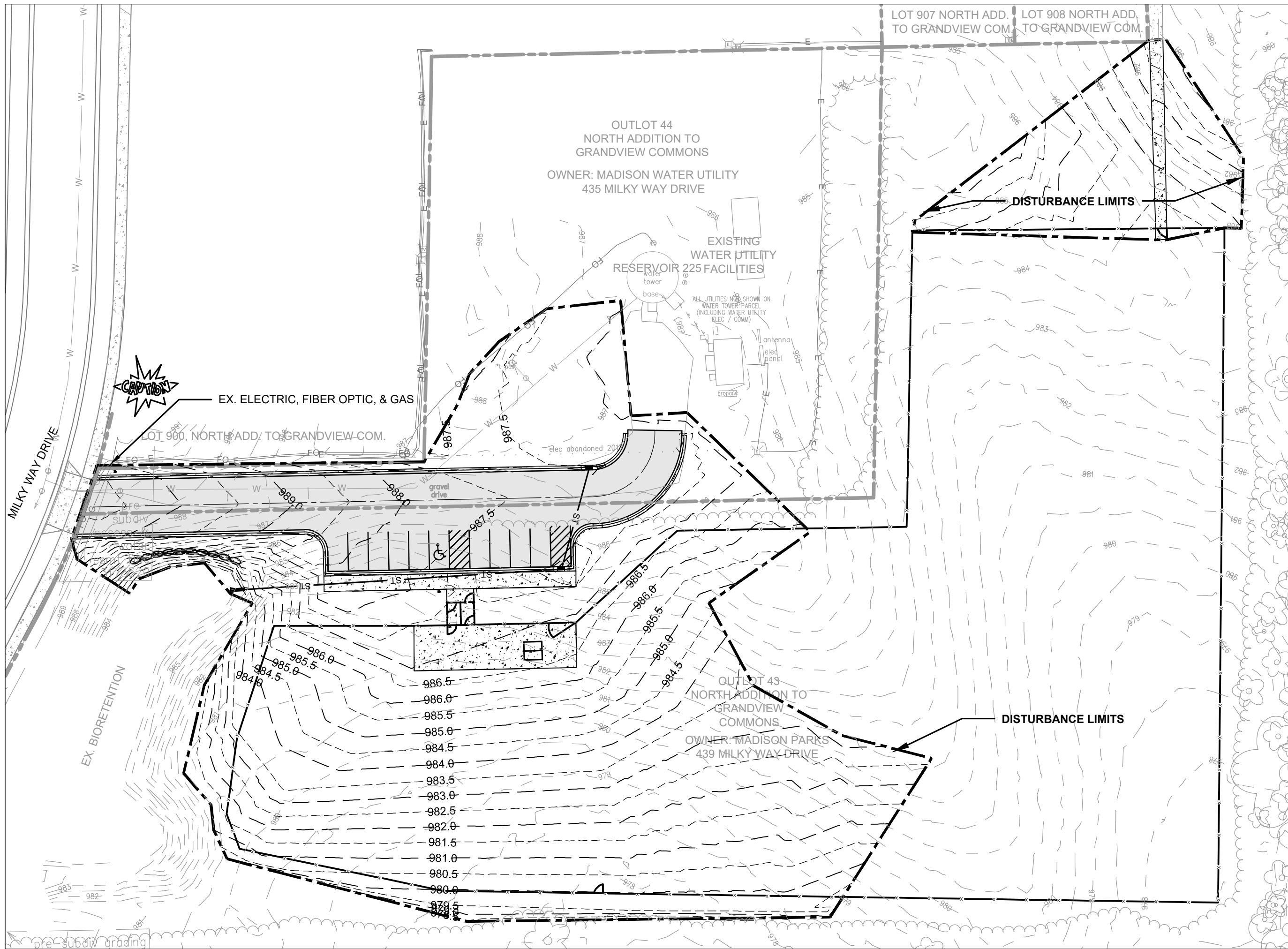
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ITEM	DATE
ADVERTISED TO BID: SCL	08/29/2019

PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
*OVERALL
 GRADING PLAN*

SHEET NUMBER:
5.0

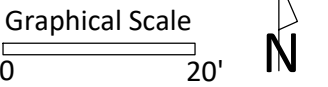


NOTES

1.) AT THE TIME OF DESIGN, LOT 900 IS CURRENTLY UNDER CONSTRUCTION, THE CONTRACTOR SHALL GRADE A SWALE FROM THE SOUTHEAST LOT CORNER OF LOT 900 TO THE TOP OF CURB TO ENSURE POSITE DRAINAGE FROM THE RESIDENTIAL PROPERTY TO THE INLETS WITHIN THE PARKING LOT.

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play
**MADISON
 PARKS**



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**NORTH STAR
 DOG PARK**

**439 MILKY WAY
 MADISON, WI 53718**

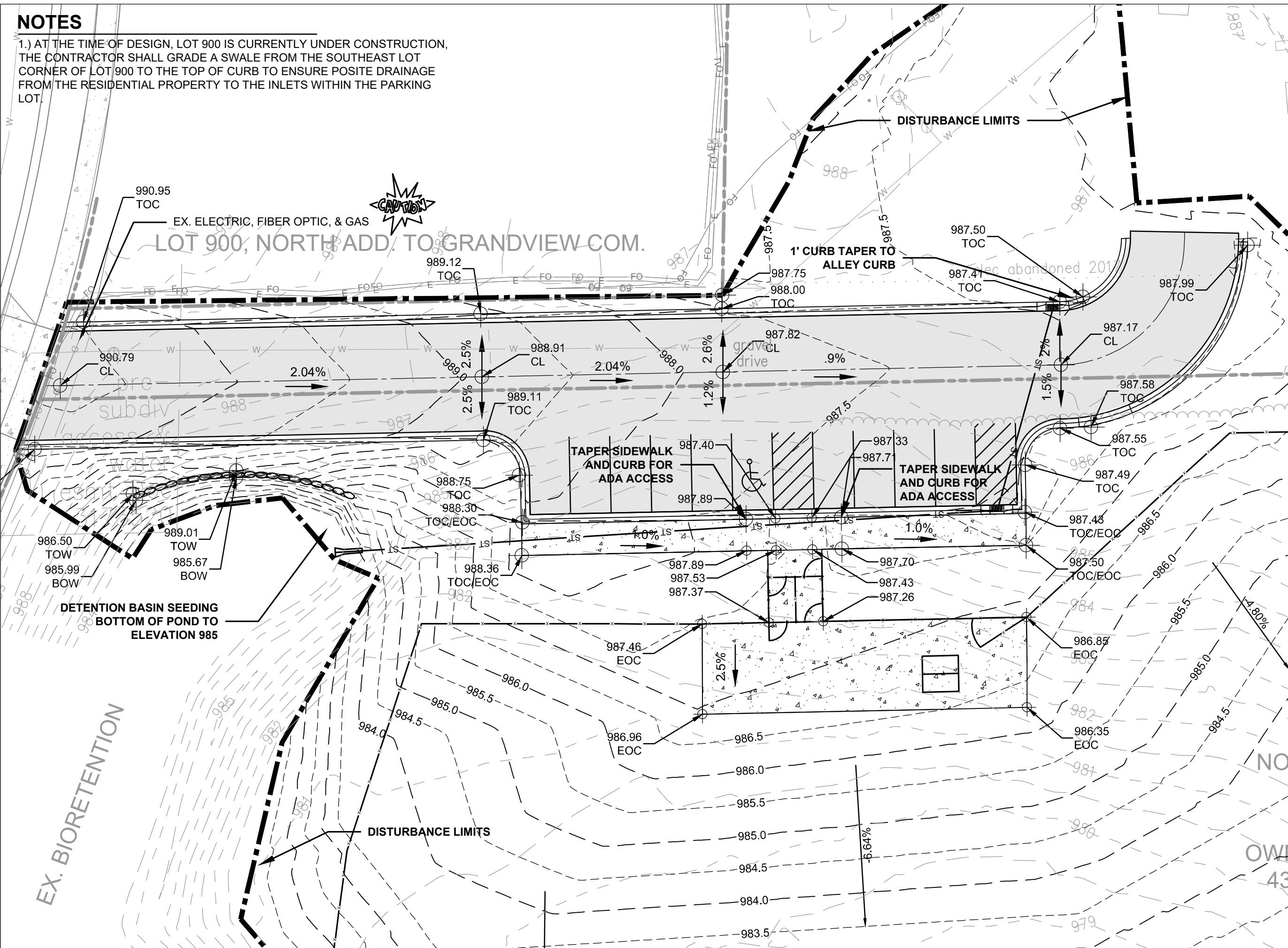
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ITEM	DATE
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PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
**PARKING LOT
 GRADING PLAN**

SHEET NUMBER:
5.1



STORM SCHEDULE

North Star Dog Park Storm Schedule

PIPE LENGTHS, SLOPES, AND TYPE

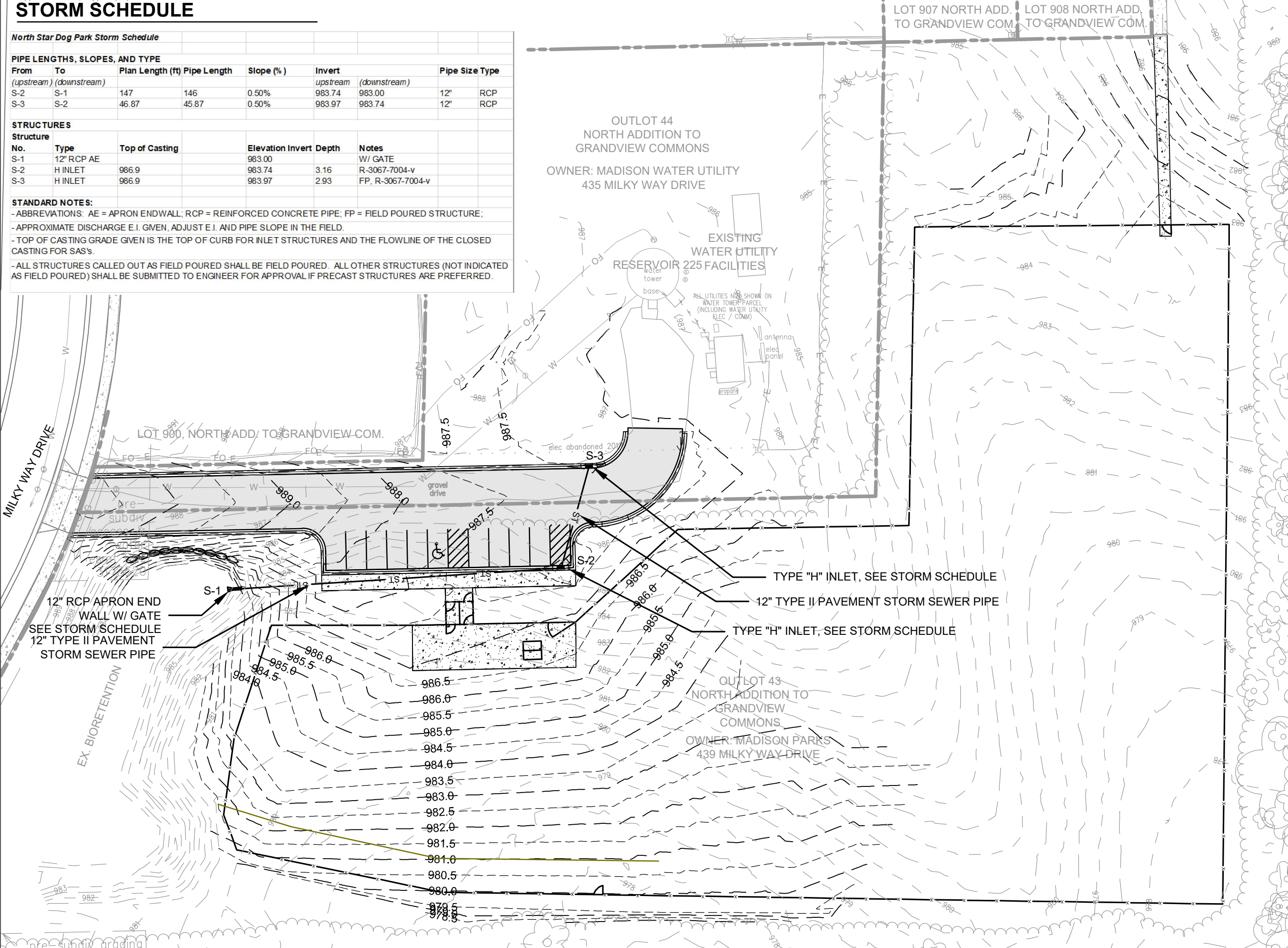
From (upstream)	To (downstream)	Plan Length (ft)	Pipe Length	Slope (%)	Invert upstream	Invert (downstream)	Pipe Size	Type
S-2	S-1	147	146	0.50%	983.74	983.00	12"	RCP
S-3	S-2	46.87	45.87	0.50%	983.97	983.74	12"	RCP

STRUCTURES

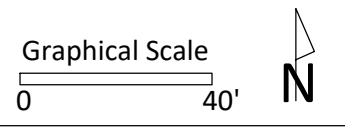
Structure No.	Type	Top of Casting	Elevation Invert	Depth	Notes
S-1	12" RCP AE		983.00		W/ GATE
S-2	H INLET	986.9	983.74	3.16	R-3067-7004-v
S-3	H INLET	986.9	983.97	2.93	FP, R-3067-7004-v

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; FP = FIELD POURED STRUCTURE;
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS'S.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED.



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PROJECT:
NORTH STAR DOG PARK

**439 MILKY WAY
 MADISON, WI 53718**

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ITEM	DATE
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PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
STORM SEWER UTILITY PLAN

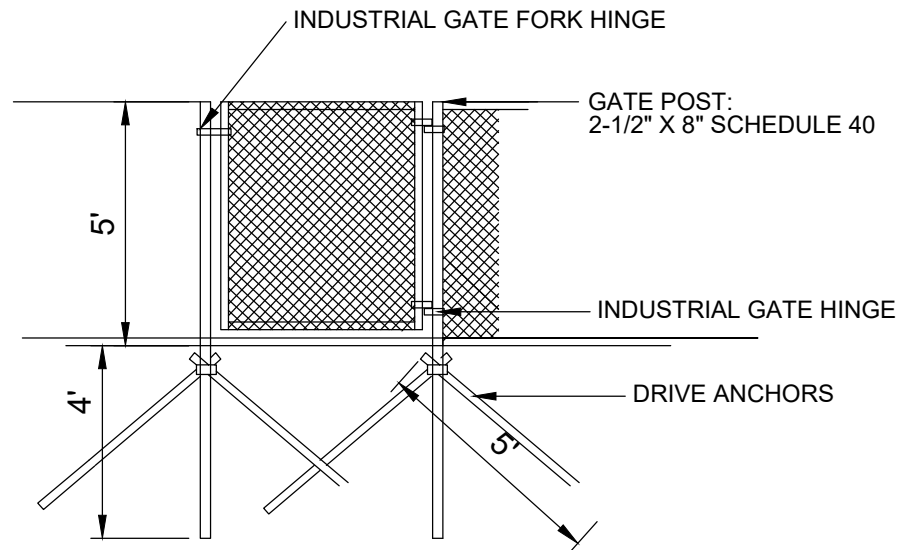
SHEET NUMBER:
6.0

NOTES

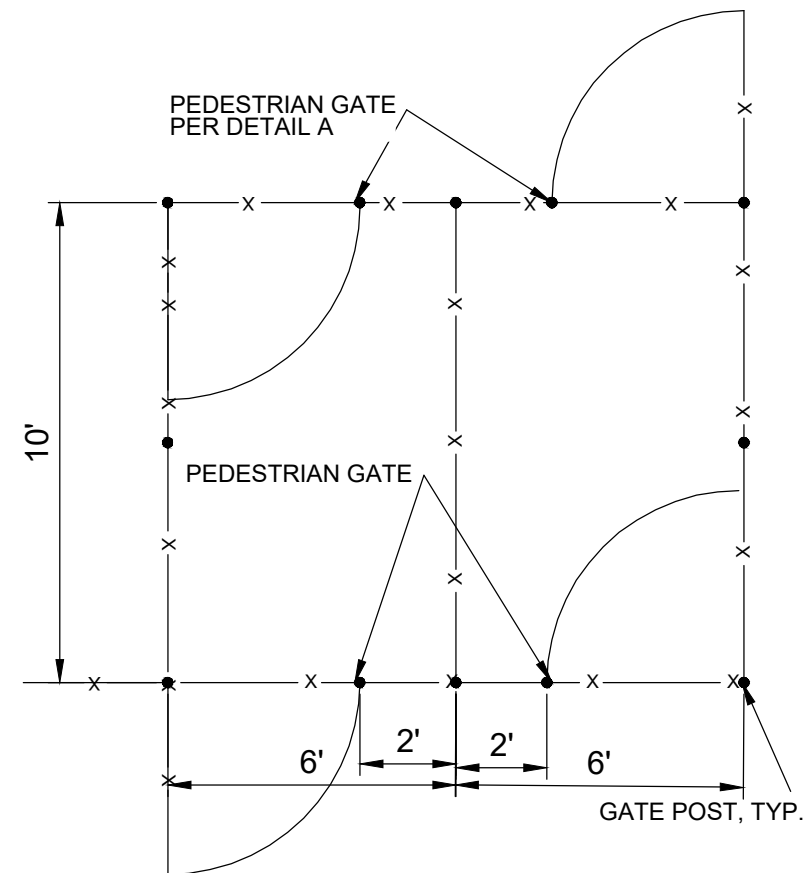
1.) PATCH AROUND POSTS WITH HYDRAULIC CEMENT.

	Height	Mesh	Gauge	Selvage	Finish
Fabric	5'-0"	2"	10	KK	Aluminized

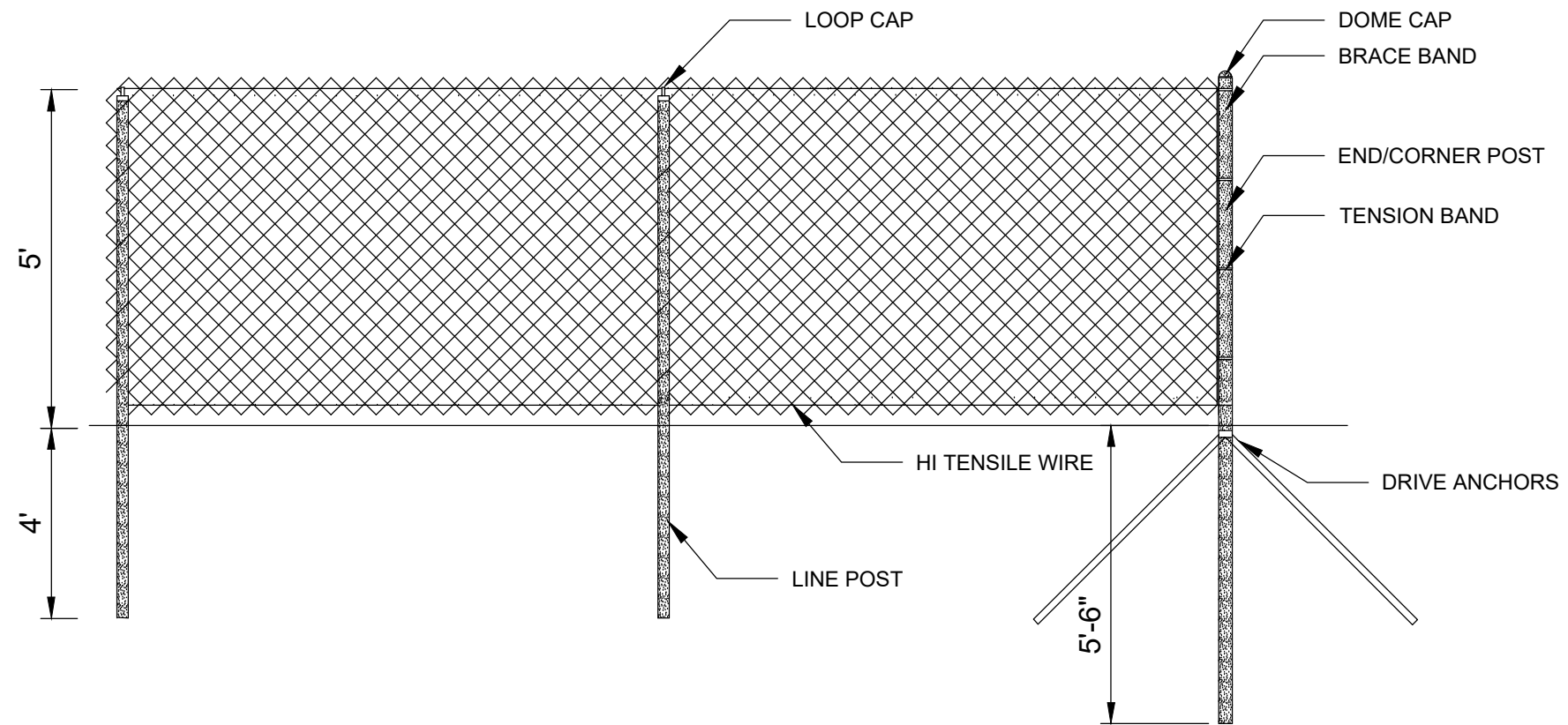
	O.D.	Wall	lbs/ft	Length	Type
Gate Posts	2.5"	0.154	3.65	10.5'	Sch. 40
Gate Frame	2"	0.145	2.72		Sch. 40
End/Corner Post	2.5"	0.154	3.65	10.5'	Sch. 40
Line Posts	2"	0.145	2.72	8'	Sch. 40
Rails	1 5/8"	0.14	2.27		



A PEDESTRIAN GATE
NTS



B ENTRANCE VESTIBULE LAYOUT
NTS



C FENCE SECTION DETAIL
NTS

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PROJECT:

**NORTH STAR
DOG PARK**

**439 MILKY WAY
MADISON, WI 53718**

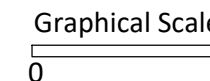
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PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
FENCE DETAILS

SHEET NUMBER:
7.0



PROJECT:

**NORTH STAR
 DOG PARK**

**439 MILKY WAY
 MADISON, WI 53718**

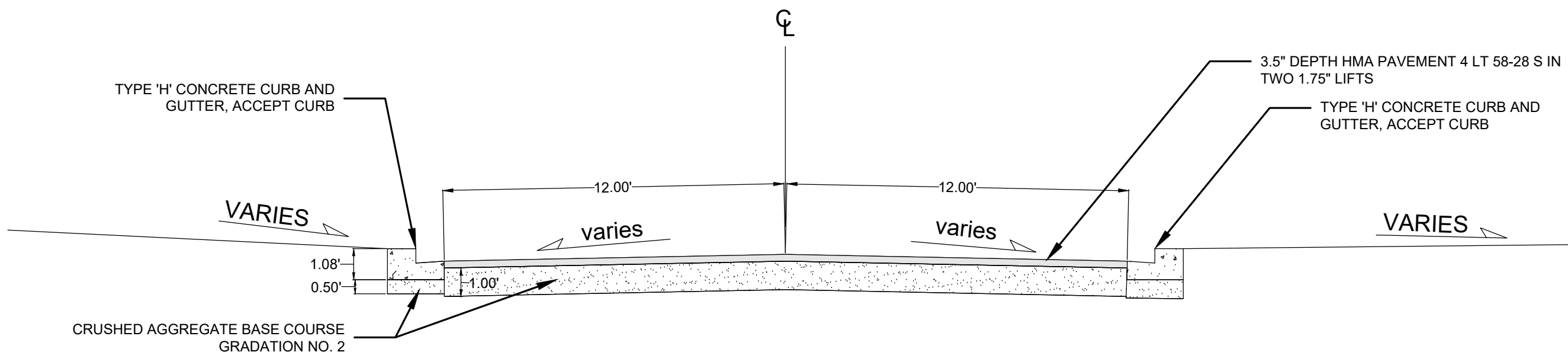
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ITEM	DATE
ADVISOR/ENGINEER/PROJ. NO./SCL	08/20/2019

PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
**PAVEMENT
 SECTION**

SHEET NUMBER:
8.0



(A) DRIVEWAY PAVEMENT CROSS SECTION

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	Grass to Asphalt	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	4920	0.50	2460	91.1	0%	91.1
1.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-15.5in	4920	varies	34.29	1.3	0%	1.3
1.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-15.5in	4920	varies	-6570.06	-243.3	0%	-243.3
1.4	Grass to Asphalt	Gravel Place	Place 1' depth gravel base	n/a	n/a	4920	-1.00	-4920	-182.2	0%	-182.2
1.5	Grass to Asphalt	Asphalt Place	Place 3.5" asphalt	n/a	n/a	4920	-0.29	-1432	-53.0	0%	-53.0
2.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	55015	0.50	27507.50	1018.8	0%	1018.8
2.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	55015	varies	3418.81	126.6	0%	126.6
2.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	55015	varies	-112617.04	-4171.0	0%	-4171.0
2.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	55015	-0.50	-27507.50	-1018.8	0%	-1018.8
3.1	Grass to 5-inch Concrete	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	490	0.50	245	9.1	0%	9.1
3.2	Grass to 5-inch Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-8inch	490	varies	77.31	2.9	0%	2.9
3.3	Grass to 5-inch Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-8inch	490	varies	-10	-0.4	0%	-0.4
3.4	Grass to 5-inch Concrete	Concrete Place	Place 5" of concrete	n/a	n/a	490	-0.42	-204	-7.6	0%	-7.6
3.5	Grass to 5-inch Concrete	Gravel Place	Place 3" of gravel	n/a	n/a	490	-0.25	-123	-4.5	0%	-4.5
4.1	Grass to 7-inch Concrete	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	2416	0.50	1208	44.7	0%	44.7
4.2	Grass to 7-inch Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-10inch	2416	varies	0.00	0.0	0%	0.0
4.3	Grass to 7-inch Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-10inch	2416	varies	-10386	-384.7	0%	-384.7
4.4	Grass to 7-inch Concrete	Concrete Place	Place 5" of concrete	n/a	n/a	2416	-0.58	-1409	-52.2	0%	-52.2
4.5	Grass to 7-inch Concrete	Gravel Place	Place 3" of gravel	n/a	n/a	2416	-0.25	-604	-22.4	0%	-22.4
5.1	Grass to Curb	Topsoil Excavate	Strip 6" topsoil	Ex-6in	Pro-18in	817	0.50	408	15.1	0%	15.1
5.2	Grass to Curb	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-18in	817	varies	23.42	0.9	0%	0.9
5.3	Grass to Curb	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-18in	817	varies	-1020	-37.8	0%	-37.8
5.4	Grass to Curb	Curb Place	Place 12" concrete curb	n/a	n/a	817	-1.00	-817	-30.2	0%	-30.2
5.5	Grass to Curb	Gravel Place	Place 6" of gravel	n/a	n/a	817	-0.50	-408	-15.1	0%	-15.1
6.1	Gravel to Curb	Topsoil Excavate	Strip 6" topsoil	Ex-9in	Pro-18in	308	0.75	231	8.6	0%	8.6
6.2	Gravel to Curb	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-9in	Pro-18in	308	varies	23.07	0.9	0%	0.9
6.3	Gravel to Curb	Subsoil Place	Fill subsoil to proposed subgrade	Ex-9in	Pro-18in	308	varies	-81	-3.0	0%	-3.0
6.4	Gravel to Curb	Curb Place	Place 12" concrete curb	n/a	n/a	308	-1.00	-308	-11.4	0%	-11.4
6.5	Gravel to Curb	Gravel Place	Place 6" of gravel	n/a	n/a	308	-0.50	-154	-5.7	0%	-5.7
7.1	Gravel to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	148	0.50	74	2.7	0%	2.7
7.2	Gravel to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6inch	Pro-6inch	148	varies	0	0.0	0%	0.0
7.3	Gravel to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6inch	Pro-6inch	148	varies	-215	-8.0	0%	-8.0
7.4	Gravel to Grass	Topsoil Place	Place 6" of topsoil	n/a	n/a	148	-0.50	-74	-2.7	0%	-2.7
8.1	Gravel to Asphalt	Gravel Excavate	Strip 9" of gravel	n/a	n/a	3583	0.75	2687	99.5	0%	99.5
8.2	Gravel to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-15.5in	3583	varies	14.47	0.5	0%	0.5
8.3	Gravel to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-15.5in	3583	varies	-2316.51	-85.8	0%	-85.8
8.4	Gravel to Asphalt	Gravel Place	Place 1' depth gravel base	n/a	n/a	3583	-1.00	-3583	-132.7	0%	-132.7
8.5	Gravel to Asphalt	Asphalt Place	Place 3.5" asphalt	n/a	n/a	3583	-0.29	-1043	-38.6	0%	-38.6

North Star Dog Park

City of Madison Public Works Contract

Date Revised: 8/7/2019

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-91.6
Subsoil Excavate	133.0
Subsoil Place	-4933.9
Topsoil Excavate	1190.1
Topsoil Place	-1021.5
Concrete Place	-59.8
Gravel Place	-362.7
Grand Total	-5146.3

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	1323	CY	= Subsoil Excavate + Topsoil Excavate
90009 Fill Borrow (Place)	4801	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	6117	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	725	tons	= (Gravel Place) * -2 ton/cubic yard
Pavement 4 LT 58-28 S	197.9	tons	= Asphalt Place * -2.16 ton/cubic yard

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ITEM DATE
ADVERTISED TO BID: SCL 08/29/2019

PUBLIC WORKS PROJECT #:
8441

SHEET TITLE:
**DESIGN
CALCULATIONS**

SHEET NUMBER:
9.0