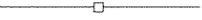
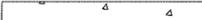
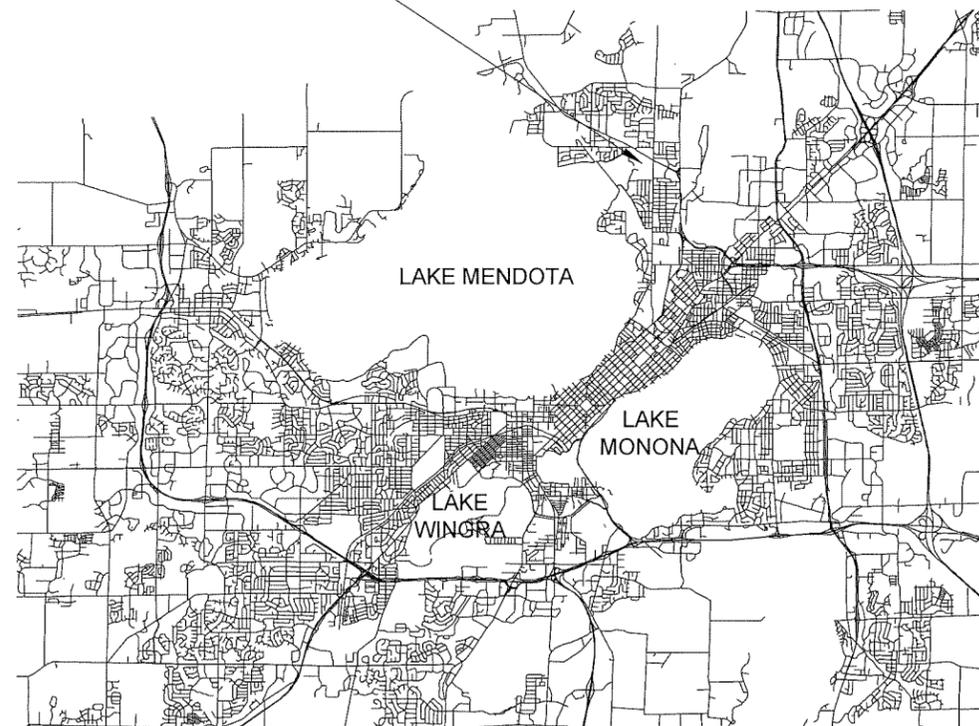


LEGEND

-  EX. LIGHT
-  EX. TREE
-  EX. WATER HYDRANT
-  EX. WATER VALVE
-  EX. STORM STRUCTURE
-  EX. ELECTRICAL TRANSFORMER
-  EX. PROPERTY LINE
-  EX. EASEMENT
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. ELECTRIC
-  EX. STORM SEWER
-  EX. WATER UTILITY
-  EX. WATER LEVEL (LAKE LEVEL)
-  EX. CONCRETE
-  PRO. SPOT ELEVATION
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  PRO. GRADING LIMITS
-  PRO. SILT SOCK
-  PRO. TURBIDITY BARRIER
-  PRO. CONSTRUCTION FENCE
-  PRO. ASPHALT
-  PRO. CONCRETE
-  PRO. LIGHT RIPRAP - GLACIAL FIELD STONE
-  REMOVE EX. TOPSOIL
-  REMOVE EX. ASPHALT
-  REMOVE EX. CONCRETE

**WARNER LAGOON PIER AND
ICE ACCESS
2930 N. SHERMAN AVENUE
MUNIS NO. 12774-51-130**

PROJECT LOCATION



DESIGNED BY:



City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703

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SHEET SCHEDULE

- Sheet 1.0 Project Location and Site Access
- Sheet 2.0 Existing Conditions
- Sheet 3.0 Demolition and Protection Plan
- Sheet 4.0 Site Plan
- Sheet 5.0 Grading Plan
- Sheet 6.0 Concrete Launch Details
- Sheet 6.1 Fishing Pier Concrete Abutment Details
- Sheet 7.0 Grading Computations

PROJECT:

*WARNER LAGOON
PIER AND ICE ACCESS*

*WARNER PARK
2930 N. SHERMAN AVE.
MADISON, WI
53704*

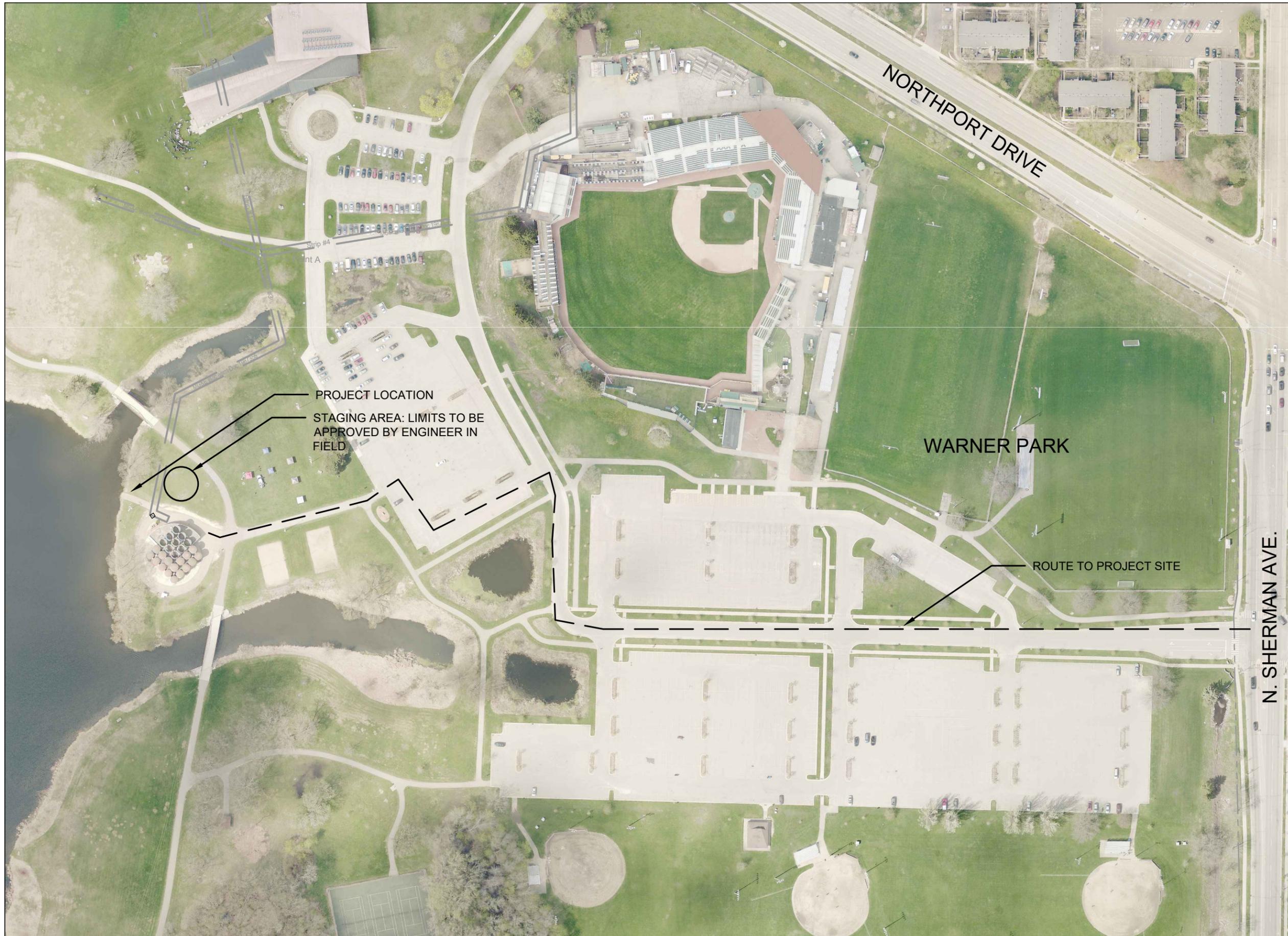
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
ADVERTISED TO BID	2020-02-13

PUBLIC WORKS PROJECT #:
9428

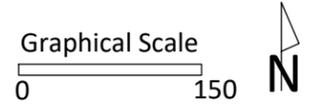
SHEET TITLE:
COVER SHEET

SHEET NUMBER:



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PROJECT:
**WARNER LAGOON
 PIER AND ICE ACCESS**

PROJECT ADDRESS:
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 2930 N SHERMAN AVE
 MADISON, WI 53704**

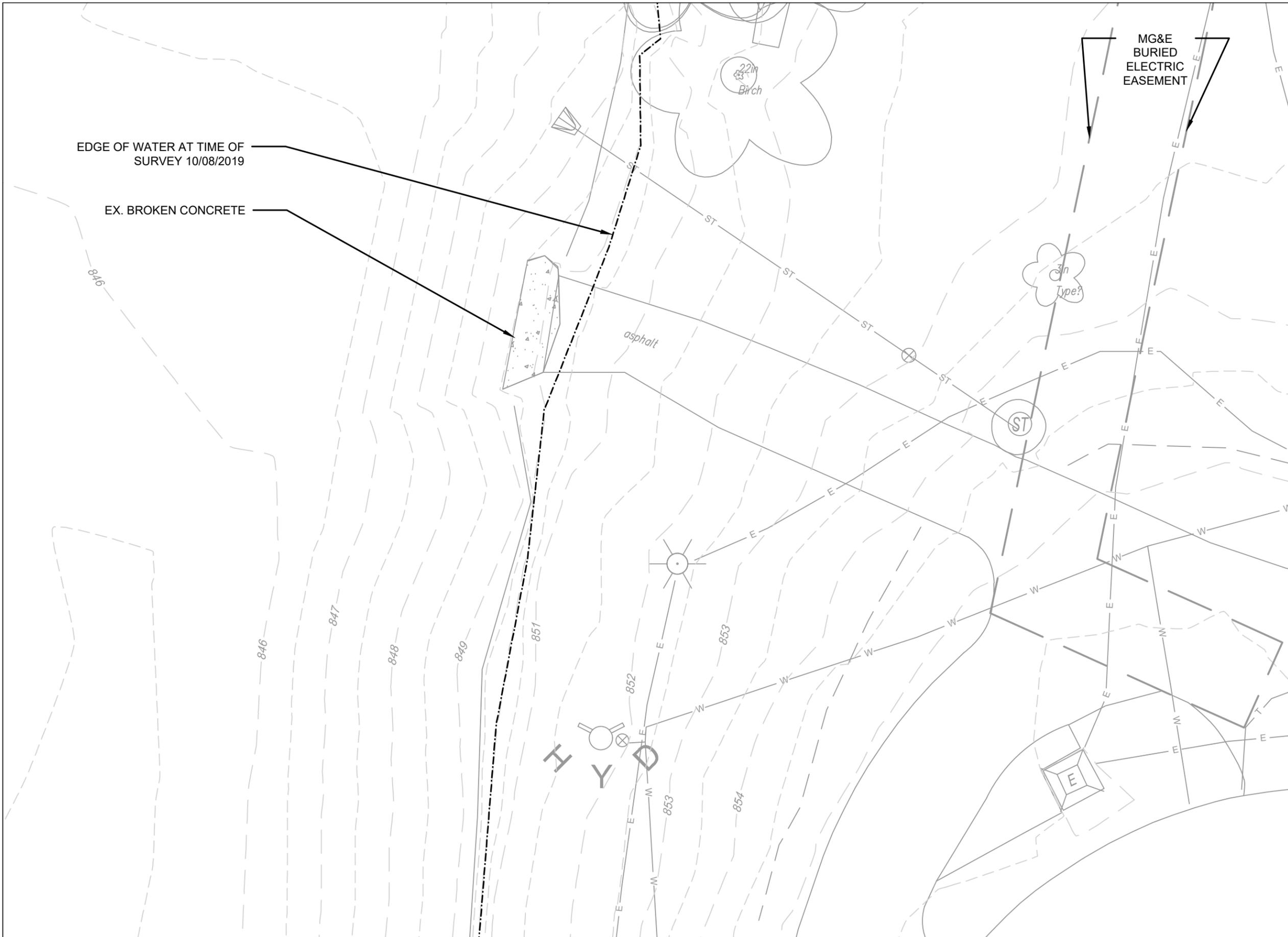
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9428

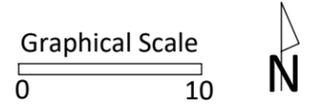
SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

SHEET NUMBER:
1.0



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PROJECT:
WARNER LAGOON
PIER AND ICE ACCESS

PROJECT ADDRESS:
WARNER PARK
2930 N SHERMAN AVE
MADISON, WI 53704

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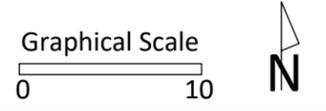
PUBLIC WORKS PROJECT #:
9428

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
2.0

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PROJECT:
**WARNER LAGOON
 PIER AND ICE ACCESS**

PROJECT ADDRESS:
**WARNER PARK
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 MADISON, WI 53704**

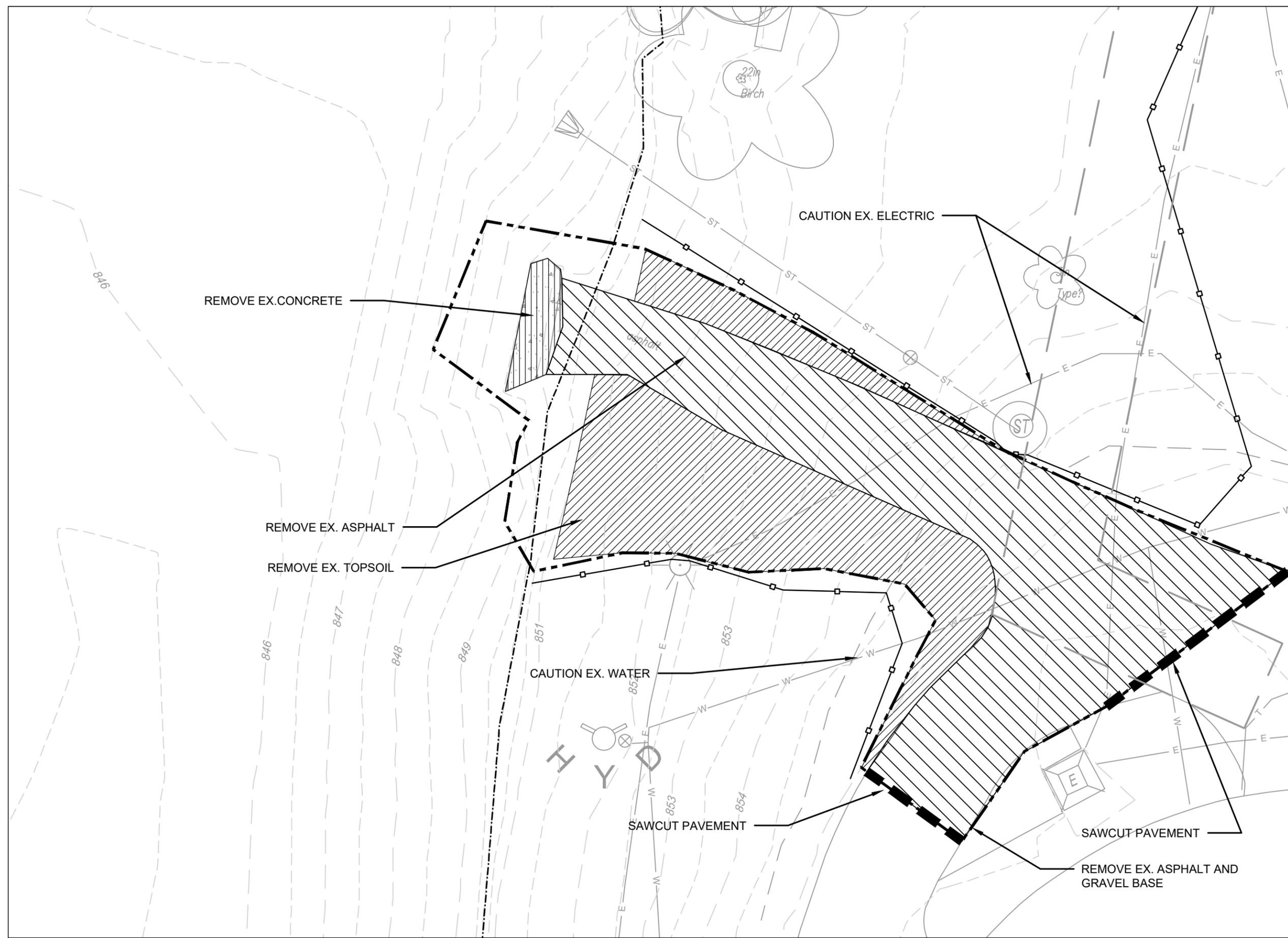
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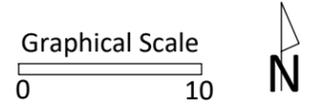
SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:
3.0



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PROJECT:
**WARNER LAGOON
 PIER AND ICE ACCESS**

PROJECT ADDRESS:
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 2930 N SHERMAN AVE
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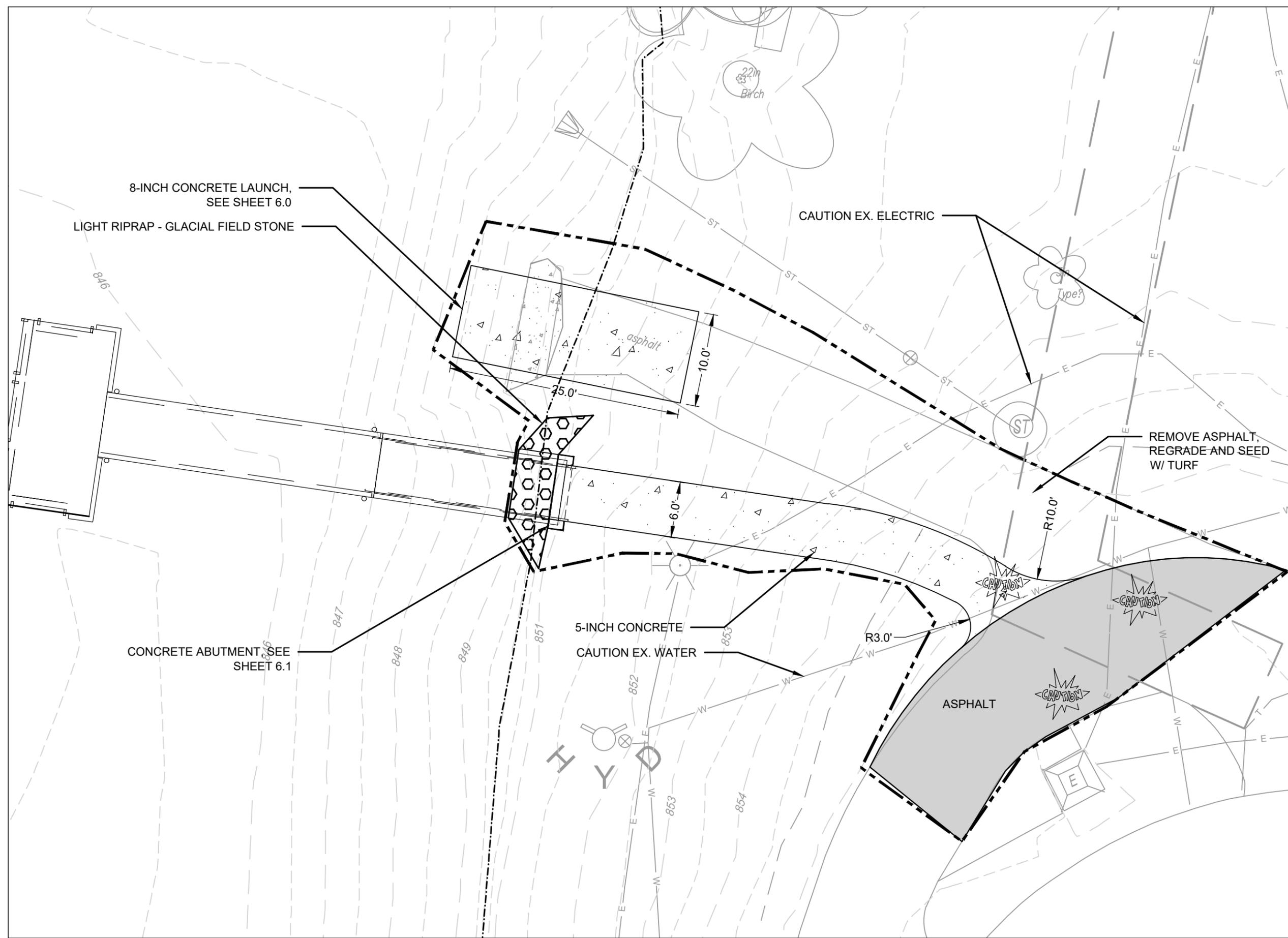
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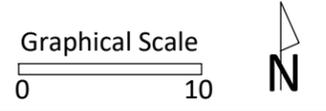
PUBLIC WORKS PROJECT #:
9428

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
4.0



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PROJECT:
**WARNER LAGOON
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PROJECT ADDRESS:
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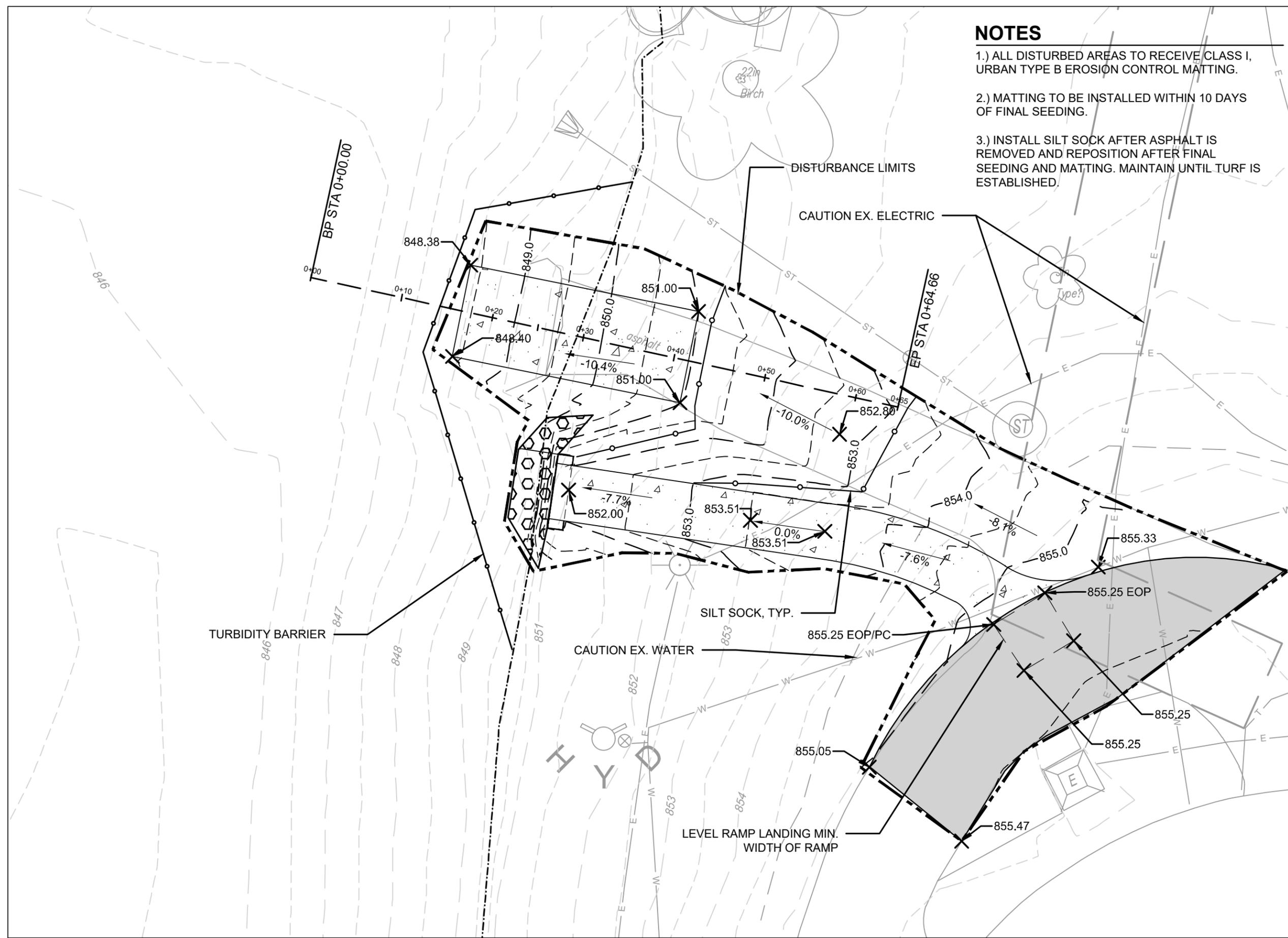
PUBLIC WORKS PROJECT #:
9428

SHEET TITLE: **GRADING AND
 EROSION CONTROL
 PLAN**

SHEET NUMBER:
5.0

NOTES

- 1.) ALL DISTURBED AREAS TO RECEIVE CLASS I, URBAN TYPE B EROSION CONTROL MATTING.
- 2.) MATTING TO BE INSTALLED WITHIN 10 DAYS OF FINAL SEEDING.
- 3.) INSTALL SILT SOCK AFTER ASPHALT IS REMOVED AND REPOSITION AFTER FINAL SEEDING AND MATTING. MAINTAIN UNTIL TURF IS ESTABLISHED.



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PROJECT:
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 PIER AND ICE ACCESS**

PROJECT ADDRESS:
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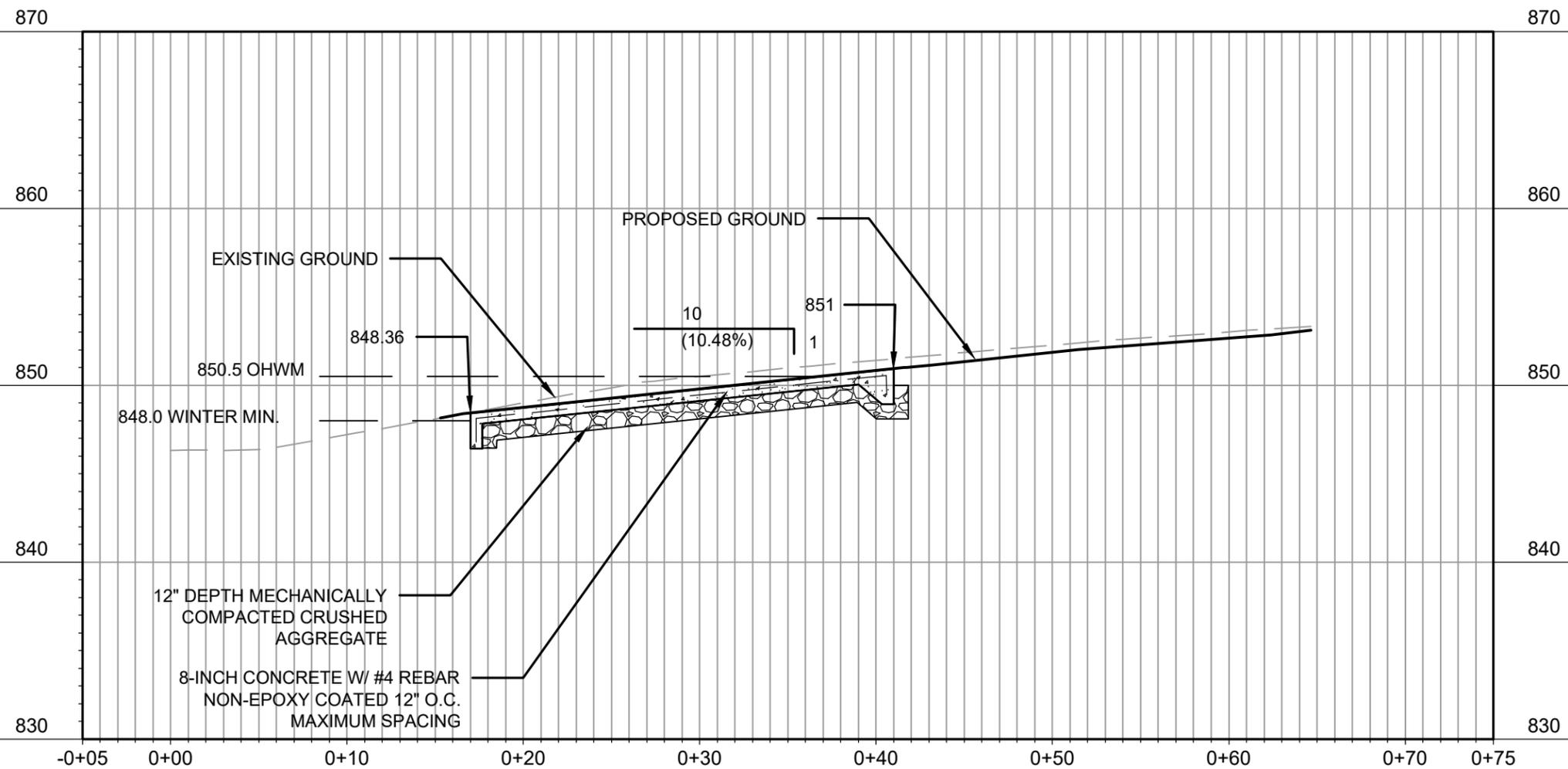
ITEM	DATE
ADVERTISED TO BID	2020-02-13

PUBLIC WORKS PROJECT #:
9428

SHEET TITLE:
**CONCRETE LAUNCH -
 DETAILS**

SHEET NUMBER:
6.0

ICE ACCESS DETAIL



Station



PROJECT:
**WARNER LAGOON
PIER AND ICE ACCESS**

PROJECT ADDRESS:
**WARNER PARK
2930 N SHERMAN AVE
MADISON, WI 53704**

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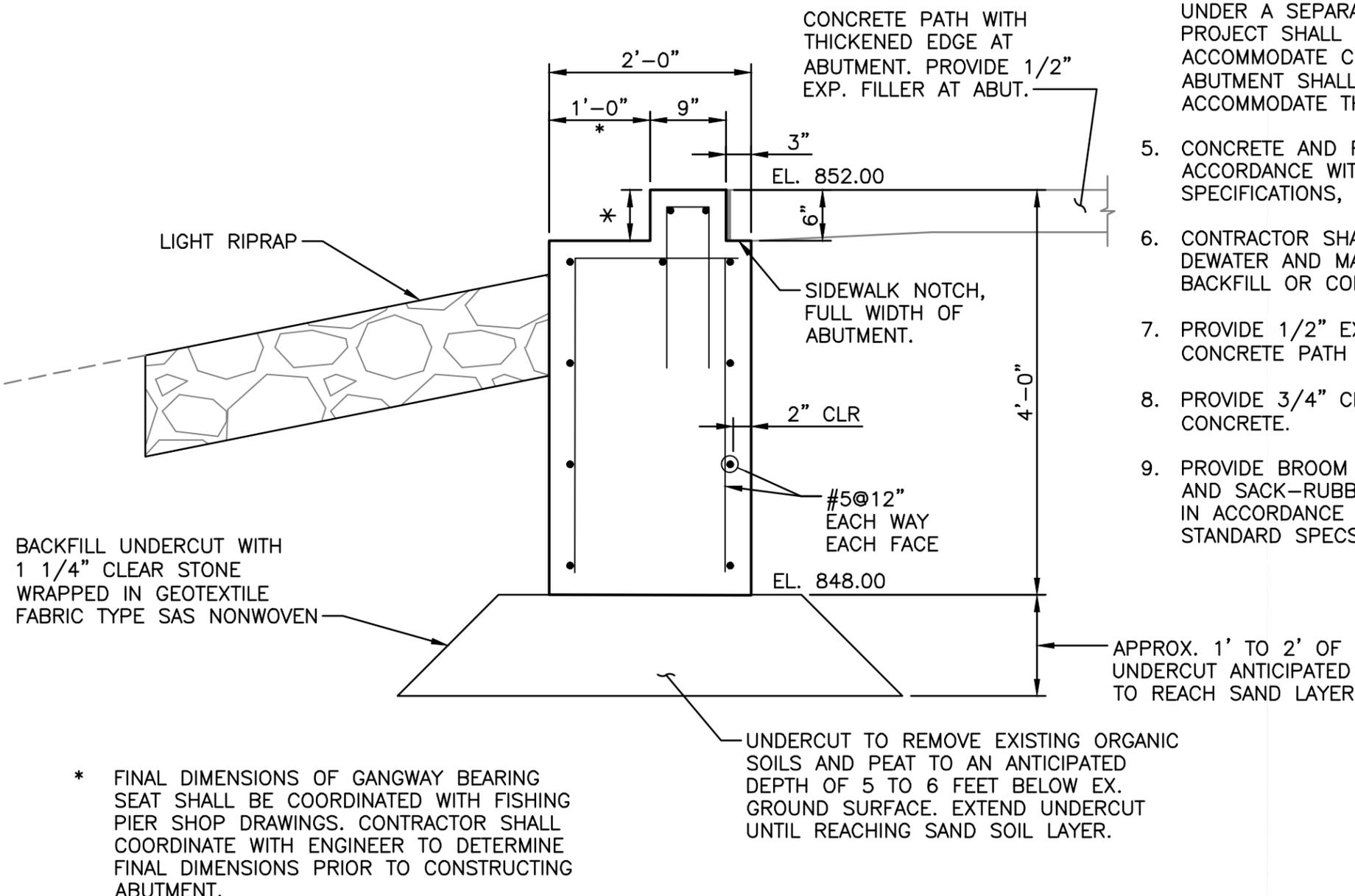
PUBLIC WORKS PROJECT #:
9428

SHEET TITLE:
**FISHING PIER
CONCRETE ABUTMENT
DETAILS**

SHEET NUMBER:
6.1

GENERAL NOTES:

1. REFER TO SITE PLAN FOR FISHING PIER ABUTMENT LAYOUT.
2. SITE PLAN AND GRADING PLAN HAVE BEEN DESIGNED BY CITY OF MADISON PARKS DIVISION. FISHING PIER AND ABUTMENT HAVE BEEN DESIGNED BY STRAND ASSOCIATES, INC.
3. A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT AND IS INCLUDED IN THE PROJECT SPECIFICATIONS FOR REFERENCE.
4. THE CITY SHALL PROCURE THE FISHING PIER AND GANGWAY UNDER A SEPARATE CONTRACT. CONTRACTOR FOR THIS PROJECT SHALL CONSTRUCT CONCRETE ABUTMENT TO ACCOMMODATE CITY'S FISHING PIER. FINAL DIMENSIONS OF ABUTMENT SHALL BE ADJUSTED AS REQUIRED TO ACCOMMODATE THE FISHING PIER GANGWAY DIMENSIONS.
5. CONCRETE AND REINFORCEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS, PART III.
6. CONTRACTOR SHALL TAKE MEASURES AS REQUIRED TO DEWATER AND MAINTAIN A DRY EXCAVATION BEFORE PLACING BACKFILL OR CONCRETE.
7. PROVIDE 1/2" EXP. JOINT FILLER VERTICALLY BETWEEN CONCRETE PATH AND ABUTMENT.
8. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.
9. PROVIDE BROOM FINISH ON HORIZONTAL CONCRETE SURFACES AND SACK-RUBBED FINISH ON EXPOSED VERTICAL SURFACES IN ACCORDANCE WITH SECTION 502.3.7.3 OF THE WISDOT STANDARD SPECS.



FISHING PIER ABUTMENT DETAIL

NO SCALE



Warner Lagoon Pier and Ice Access

City of Madison Public Works Contract
Date Revised: 1/17/2020

Notes:

Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

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 Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	604.07	0.50	302.04	11.2	0%	11.2
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	604.07	varies	115.65	4.3	0%	4.3
1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	604.07	varies	-84.37	-3.1	0%	-3.1
1.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	604.07	-0.50	-302.04	-11.2	0%	-11.2
2.1	Grass to 5-inch Concrete	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	290.00	0.50	145.00	5.4	0%	5.4
2.2	Grass to 5-inch Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-8inch	290.00	varies	35.81	1.3	0%	1.3
2.3	Grass to 5-inch Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-8inch	290.00	varies	-102.06	-3.8	0%	-3.8
2.4	Grass to 5-inch Concrete	Concrete Place	Place 5" of concrete	n/a	n/a	290.00	-0.42	-121.80	-4.5	0%	-4.5
2.5	Grass to 5-inch Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	290.00	-0.25	-72.50	-2.7	0%	-2.7
3.1	Grass to Concrete Launch	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	17.37	0.50	8.69	0.3	0%	0.3
3.2	Grass to Concrete Launch	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-1.67'	17.37	varies	32.15	1.2	0%	1.2
3.3	Grass to Concrete Launch	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-1.67'	17.37	varies	0.00	0.0	0%	0.0
3.4	Grass to Concrete Launch	Concrete Place	Place 8" of concrete	n/a	n/a	17.37	-0.67	-11.64	-0.4	0%	-0.4
3.5	Grass to Concrete Launch	Gravel Place (Concrete)	Place 1' of gravel	n/a	n/a	17.13	-1.00	-17.13	-0.6	0%	-0.6
4.1	Asphalt to Asphalt	Pavement Excavate	Strip 1' of Asphalt and Gravel	n/a	n/a	502.33	1.00	502.33	18.6	0%	18.6
4.2	Asphalt to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-1'	Pro-1'	502.33	varies	17.58	0.7	0%	0.7
4.3	Asphalt to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-1'	Pro-1'	502.33	varies	-1.40	-0.1	0%	-0.1
4.4	Asphalt to Asphalt	Gravel Place	Place 9" of gravel	n/a	n/a	502.33	-0.75	-376.75	-14.0	0%	-14.0
4.5	Asphalt to Asphalt	Asphalt Place	Place 3" of asphalt	n/a	n/a	502.33	-0.25	-125.58	-4.7	0%	-4.7
5.1	Asphalt to Concrete Ice Access	Pavement Excavate	Strip 1' of Asphalt and Gravel	n/a	n/a	125.61	1.00	125.61	4.7	0%	4.7
5.2	Asphalt to Concrete Ice Access	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-1'	Pro-1.67'	125.61	varies	165.81	6.1	0%	6.1
5.3	Asphalt to Concrete Ice Access	Subsoil Place	Fill subsoil to proposed subgrade	Ex-1'	Pro-1.67'	125.61	varies	0.00	0.0	0%	0.0
5.4	Asphalt to Concrete Ice Access	Concrete Place	Place 8" of concrete	n/a	n/a	125.61	-0.67	-84.16	-3.1	0%	-3.1
5.5	Asphalt to Concrete Ice Access	Gravel Place (Concrete)	Place 1' of gravel	n/a	n/a	125.61	-1.00	-125.61	-4.7	0%	-4.7

Warner Lagoon Pier and Ice Access

City of Madison Public Works Contract
Date Revised: 1/17/2020

Notes:

Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

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)
6.1	Asphalt to Grass	Pavement Excavate	Strip 1' of Asphalt and Gravel	n/a	n/a	540.19	1.00	540.19	20.0	0%	20.0
6.2	Asphalt to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-1'	Pro-6inch	540.19	varies	2.91	0.1	0%	0.1
6.3	Asphalt to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-1'	Pro-6inch	540.19	varies	-118.47	-4.4	0%	-4.4
6.4	Asphalt to Grass	Topsoil Place	Place 6" of topsoil	n/a	n/a	540.19	-0.50	-270.10	-10.0	0%	-10.0
7.1	Ice Access to Ice Access	Pavement Excavate	Strip 8" of concrete	n/a	n/a	48.36	0.67	32.40	1.2	0%	1.2
7.2	Ice Access to Ice Access	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-8in	Pro-1.67'	48.36	varies	76.41	2.8	0%	2.8
7.3	Ice Access to Ice Access	Subsoil Place	Fill subsoil to proposed subgrade	Ex-8in	Pro-1.67'	48.36	varies	0.00	0.0	0%	0.0
7.4	Ice Access to Ice Access	Gravel Place (Concrete)	Place 1' of gravel	n/a	n/a	48.36	-1.00	-48.36	-1.8	0%	-1.8
7.5	Ice Access to Ice Access	Concrete Place	Place 8" of concrete	n/a	n/a	48.36	-0.67	-32.40	-1.2	0%	-1.2
8.1	Lake Bed to Ice Access	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex	Pro-1.67'	56.94	varies	107.14	4.0	0%	4.0
8.2	Lake Bed to Ice Access	Subsoil Place	Fill subsoil to proposed subgrade	Ex	Pro-1.67'	56.94	varies	0.00	0.0	0%	0.0
8.3	Lake Bed to Ice Access	Gravel Place (Concrete)	Place 1' of gravel	n/a	n/a	56.94	-1.00	-56.94	-2.1	0%	-2.1
8.4	Lake Bed to Ice Access	Concrete Place	Place 8" of concrete	n/a	n/a	56.94	-0.67	-38.15	-1.4	0%	-1.4
9.1	Asphalt to Concrete Walk	Pavement Excavate	Strip 1' of Asphalt and Gravel	n/a	n/a	27.00	1.00	27.00	1.0	0%	1.0
9.2	Asphalt to Concrete Walk	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-1'	Pro-8inch	27.00	varies	0.00	0.0	0%	0.0
9.3	Concrete Walk	Subsoil Place	Fill subsoil to proposed subgrade	Ex-1'	Pro-8inch	27.00	varies	-8.33	-0.3	0%	-0.3
9.4	Asphalt to Concrete Walk	Concrete Place	Place 5" of concrete	n/a	n/a	27.00	-0.42	-11.34	-0.4	0%	-0.4
9.5	Asphalt to Concrete Walk	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	27.00	-0.25	-6.75	-0.3	0%	-0.3
10.1	Grass to Asphalt	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	10.18	0.50	5.09	0.2	0%	0.2
10.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-1'	10.18	varies	6.40	0.2	0%	0.2
10.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-1'	10.18	varies	0.00	0.0	0%	0.0
10.4	Grass to Asphalt	Concrete Place	Place 9" of gravel	n/a	n/a	10.18	-0.75	-7.64	-0.3	0%	-0.3
10.5	Grass to Asphalt	Gravel Place (Concrete)	Place 3" of asphalt	n/a	n/a	10.18	-0.25	-2.55	-0.1	0%	-0.1

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	-4.7
Subsoil Excavate	20.5
Subsoil Place	-11.3
Topsoil Excavate	16.9
Topsoil Place	-21.2
Concrete Place	-10.7
Gravel Place	-14.0
Pavement Excavate	44.5
Gravel Place (Concrete)	-11.9
Grand Total	8.2

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	37	CY	= Subsoil Excavate + Topsoil Excavate + Pavement Excavate
20202 Fill - Borrow	-9	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	127	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	28	tons	= (Gravel Place) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	10.0	tons	= Asphalt Place * -2.16 ton/cubic yard

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PROJECT:
WARNER LAGOON PIER AND ICE ACCESS

PROJECT ADDRESS:
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ITEM DATE
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PUBLIC WORKS PROJECT #:
9428

SHEET TITLE:
GRADING COMPUTATIONS

SHEET NUMBER:
7.0