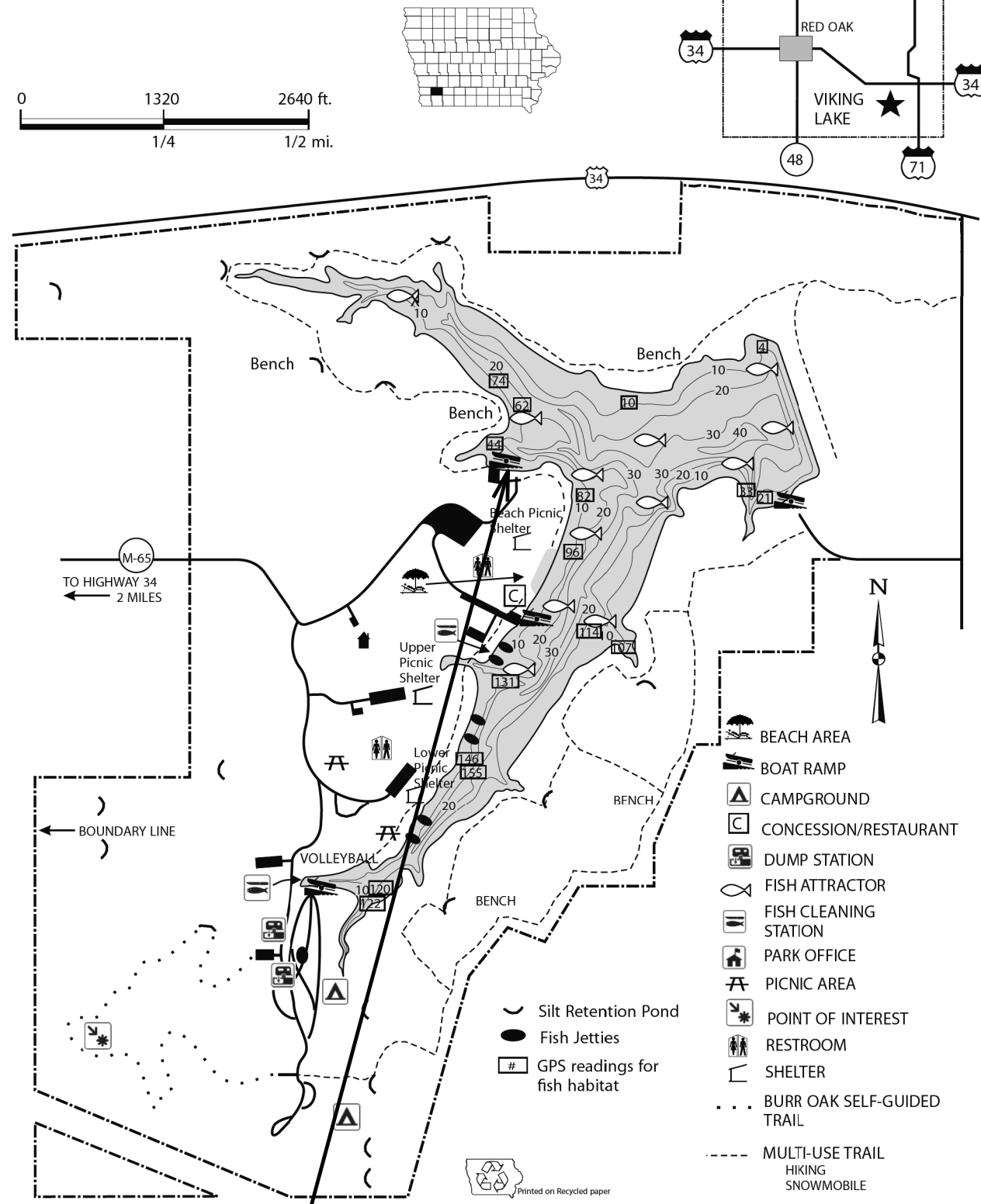
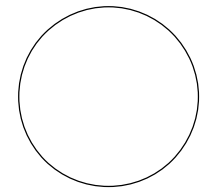


VIKING LAKE STATE PARK



PROJECT LOCATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



PROJECT LOCATION MAP

SEAWALL CONSTRUCTION FOR:

VIKING LAKE STATE PARK

MONTGOMERY COUNTY

NO. BY REVISION

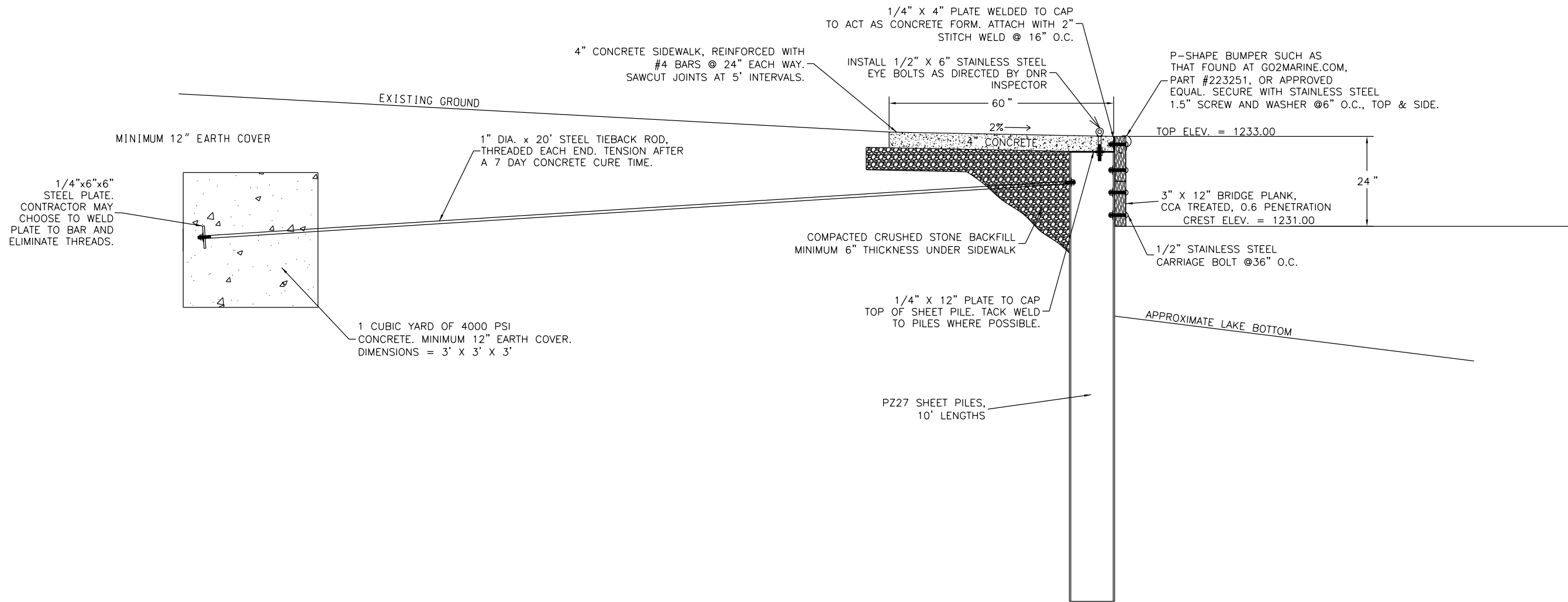
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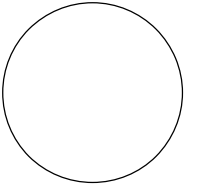
A.02

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NOT TO SCALE

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CROSS SECTION AND DETAILS

SEAWALL CONSTRUCTION FOR:

VIKING LAKE STATE PARK

MONTGOMERY COUNTY

NO.	BY	REVISION

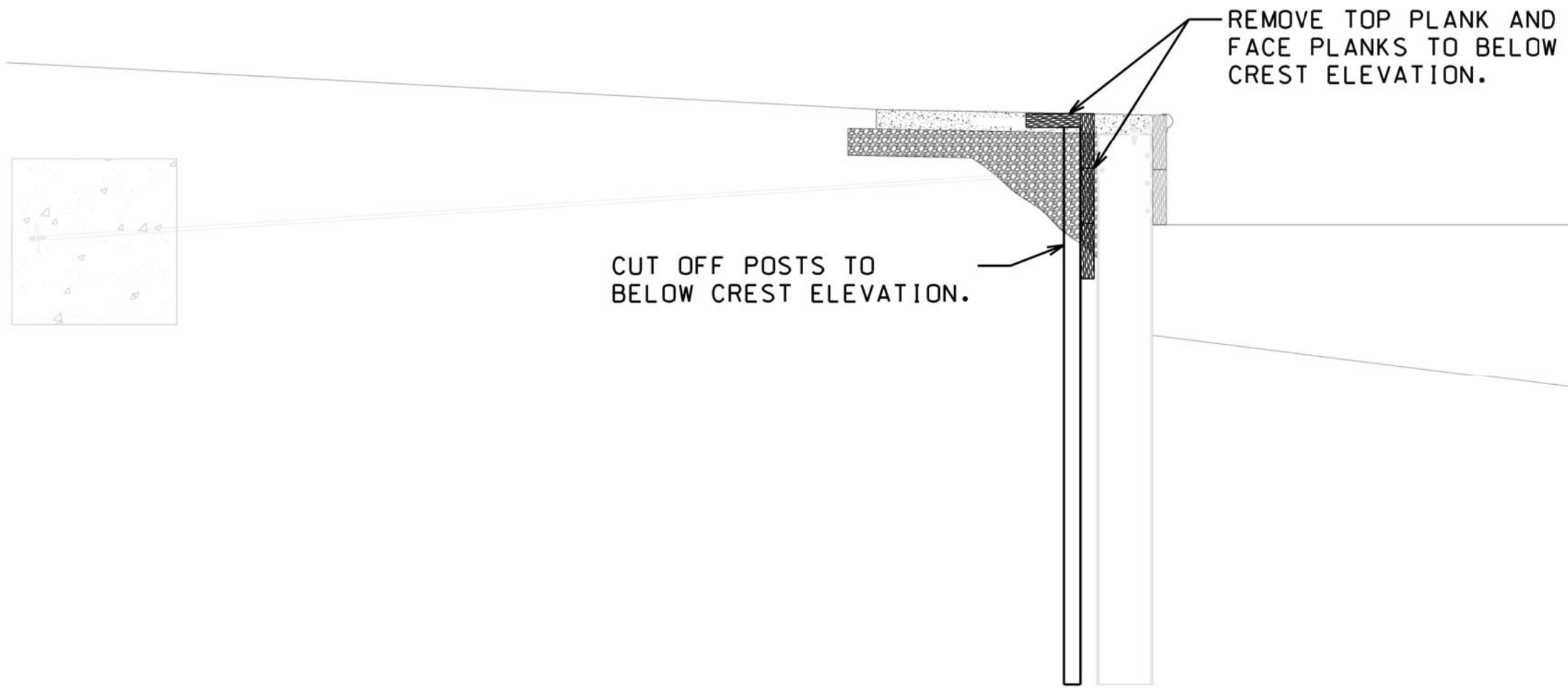
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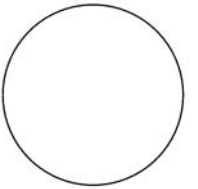


NOTES:
 ALL DEMOLITION WILL BE INCIDENTAL TO BID
 ITEM #1- MOBILIZATION.

ALL MATERIALS FROM DEMOLITION SHALL BECOME
 PROPERTY OF THE CONTRACTOR AND BE HAULED
 OFF SITE.

NOT TO SCALE

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 502 E. 9TH ST., DES MOINES, IA 50319-0034



DEMOLITION OF EXISTING SEAWALL

SEAWALL CONSTRUCTION FOR:
 VIKING LAKE STATE PARK
 MONTGOMERY COUNTY

NO.	BY	REVISION

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 18-04-69-01

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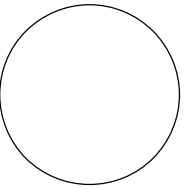
B.02

ESTIMATED PROJECT QUANTITIES			
ITEM NO.	ITEM	UNIT	TOTAL
1	MOBILIZATION	L.S.	1
2	PZ-27 SHEET PILING, 10 FT LENGTH	S.F.	4,470
3	PZ-90 SHEET PILING CONNECTOR, 10 FT LENGTH	EA.	4
4	CONCRETE DEADMAN ANCHORS W/1" X 20' TIEBACK RODS	EA.	10
5	CCA TREATED BRIDGE PLANKS, 3" X 12"	L.F.	850
6	DOCK EDGING, P-SHAPED	L.F.	425
7	PCC SIDEWALK, 4" DEPTH X 5' WIDTH	S.Y.	237
8	CLASS 'A' CRUSHED STONE	TONS	200
9	EYE BOLTS 1/2" X 6", 316 GRADE STAINLESS STEEL	EA.	82
10	SITE RESTORATION	L.S.	1

ESTIMATE REFERENCE INFORMATION	
ITEM NO.	DESCRIPTION
1	A. DEMOLITION OF EXISTING SEAWALL SHALL BE INCIDENTAL TO THIS BID ITEM.
2	A. 1/2" X 12" PLATE WELDED TO TOP OF PILING WILL BE INCIDENTAL TO SHEET PILING.
4	A. CONCRETE DEADMAN ANCHORS SHALL BE CONSIST OF ONE CUBIC YARD(3'X3'X3') OF 4,000 PSI CONCRETE. B. 1" X 20' TIEBACK RODS SHALL BE THREADED ON THE ENDS. C. WASHERS, NUTS AND PLATES USED FOR TENSIONING SHALL BE INCIDENTAL TO THIS ITEM.
5	A. CONTRACTOR SHALL SUPPLY 316 GRADE STAINLESS STEEL HARDWARE USED FOR FASTENING TREATED PLANKS TO SHEET PILES.
6	A. HARDWARE FOR MOUNTING DOCK EDGING SHALL BE STAINLESS STEEL AND CONSIDERED INCIDENTAL.
7	A. NO. 4 REBAR TO BE PLACED ON 2' CENTERS SHALL BE INCIDENTAL. B. 1/4" X 4" PLATE WELDED TO CAP SHALL BE INCIDENTAL TO CONCRETE.
9	A. CONTRACTOR TO FURNISH AND INSTALL FORGED SHOULDER EYE BOLTS MADE FROM 316 GRADE STAINLESS STEEL AS DIRECTED BY DNR INSPECTOR. A. NUTS AND WASHERS SHALL BE INCIDENTAL FOR EYE BOLTS SHALL BE INCIDENTAL.
10	A. SITE RESTORATION WILL INCLUDE: SHAPING, SEEDING, FERTILIZING AND MULCHING OF ALL AREAS DISTURBED BY CONSTRUCTION.

GENERAL NOTES	
<p>Verify actual locations and elevations with DNR Engineer.</p> <p>All work shall conform to and be performed in accordance with all applicable codes and ordinances.</p> <p>The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.</p> <p>The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.</p> <p>It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.</p> <p>The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.</p> <p>Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.</p> <p>The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.</p> <p>The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.</p>	

CONSULTANT:



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ENGINEERING SERVICES - WALLACE BUILDING
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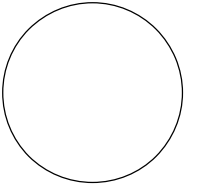
QUANTITIES AND GENERAL INFORMATION

SEAWALL CONSTRUCTION FOR:
VIKING LAKE STATE PARK
MONTGOMERY COUNTY

NO.	BY	REVISION
	DATE	
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		18-04-69-01
CHK'D BY:	DATE:	

SHEET NO: **C.01**

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



SITE PLAN

SEAWALL CONSTRUCTION FOR:

VIKING LAKE STATE PARK

MONTGOMERY COUNTY

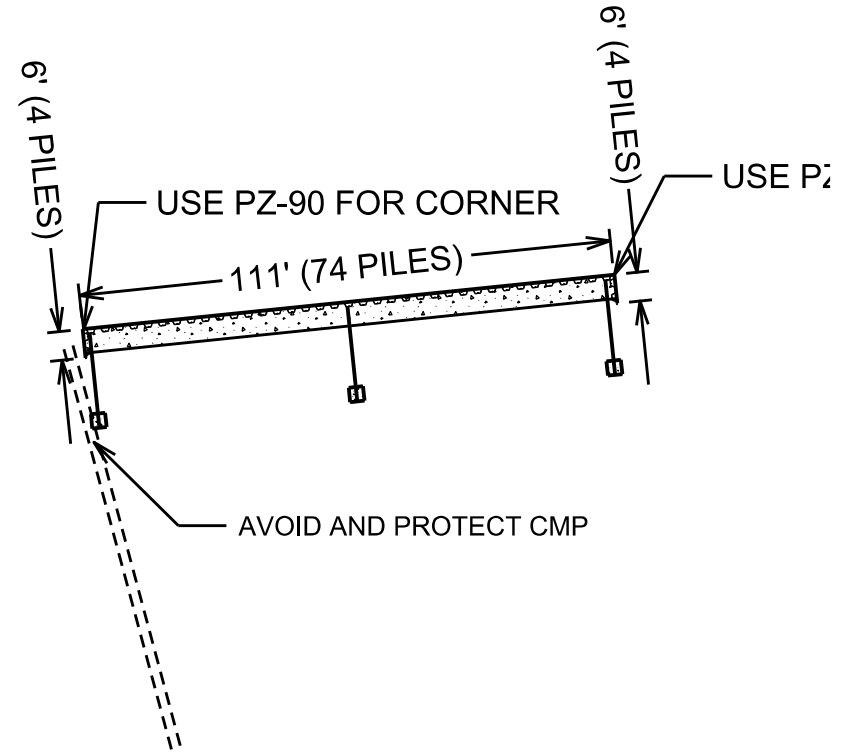
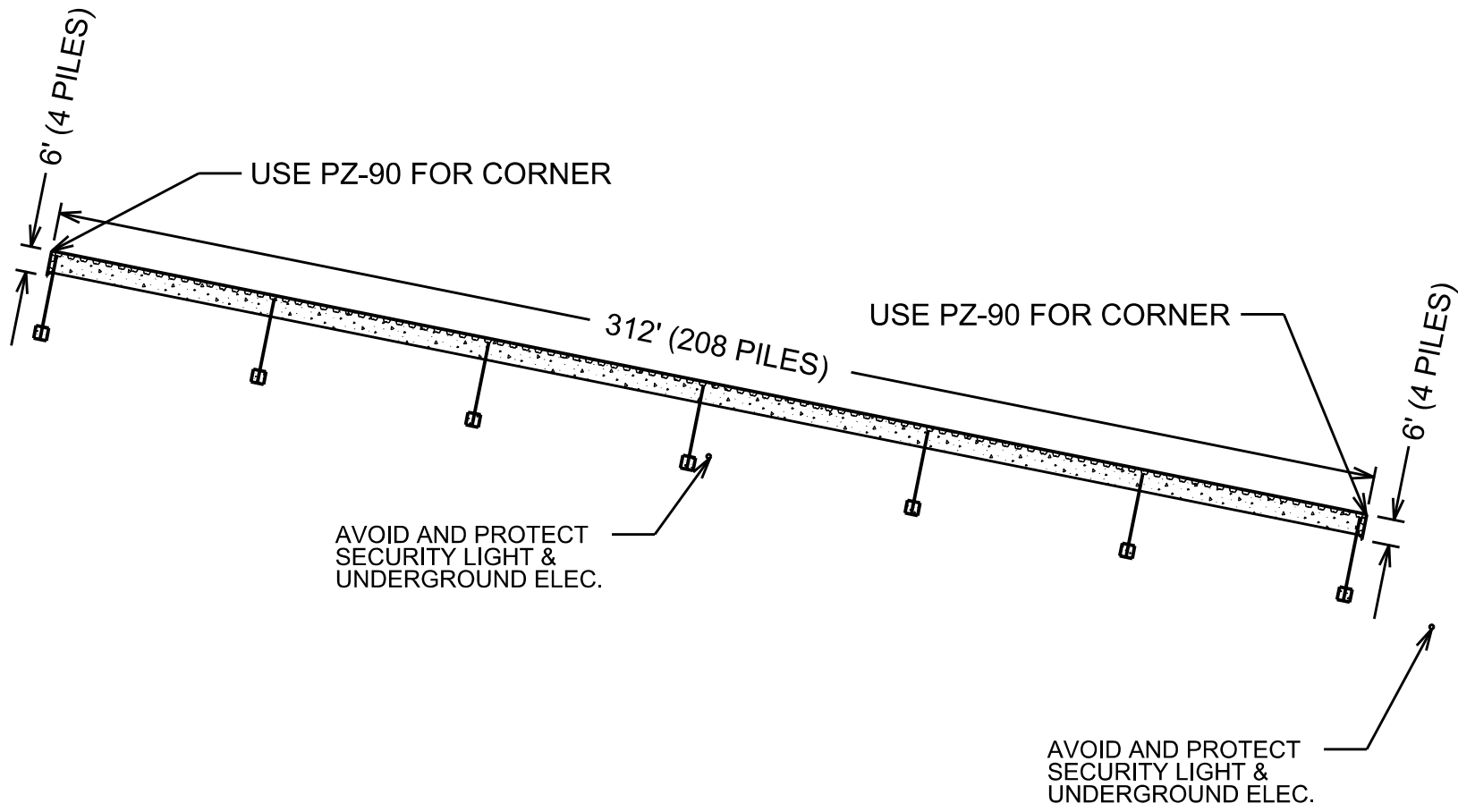
NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
18-04-69-01

CHK'D BY: DATE:

SHEET No:

D.01



NOTES:
DNR INSPECTOR WILL DETERMINE LINE FOR SHEET PILES.

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REPAIRED AND SEEDED,
FERTILIZED, AND MULCHED ACCORDING TO SPECIFICATIONS.

