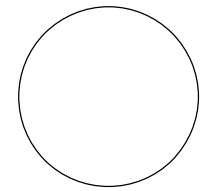


PROJECT LOCATION

CONSULTANT:



IOWA DEPARTMENT OF  
NATURAL RESOURCES

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



PROJECT LOCATION MAP

FSH CLEANING STATION FOR:

MCINTOSH WOODS STATE PARK

CERRO GORDO COUNTY

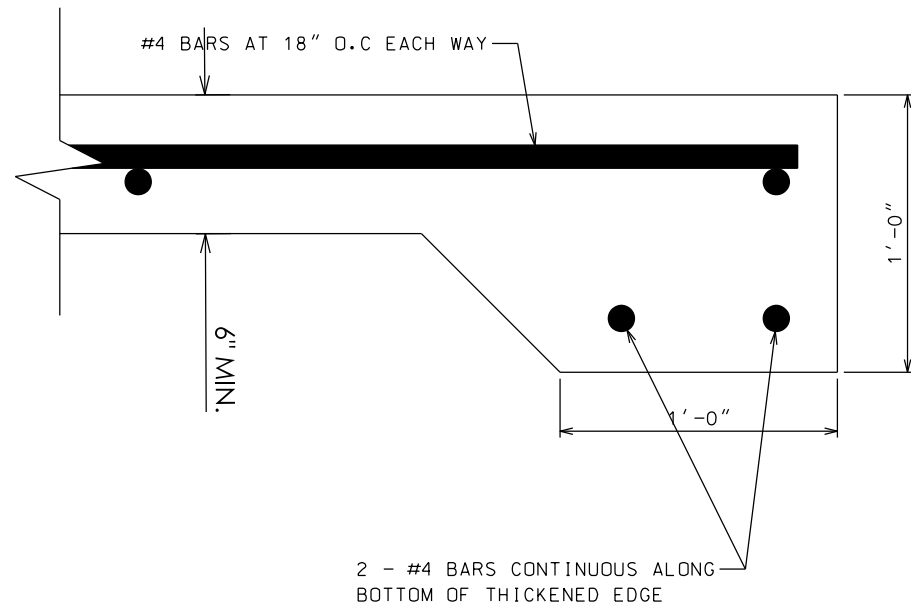
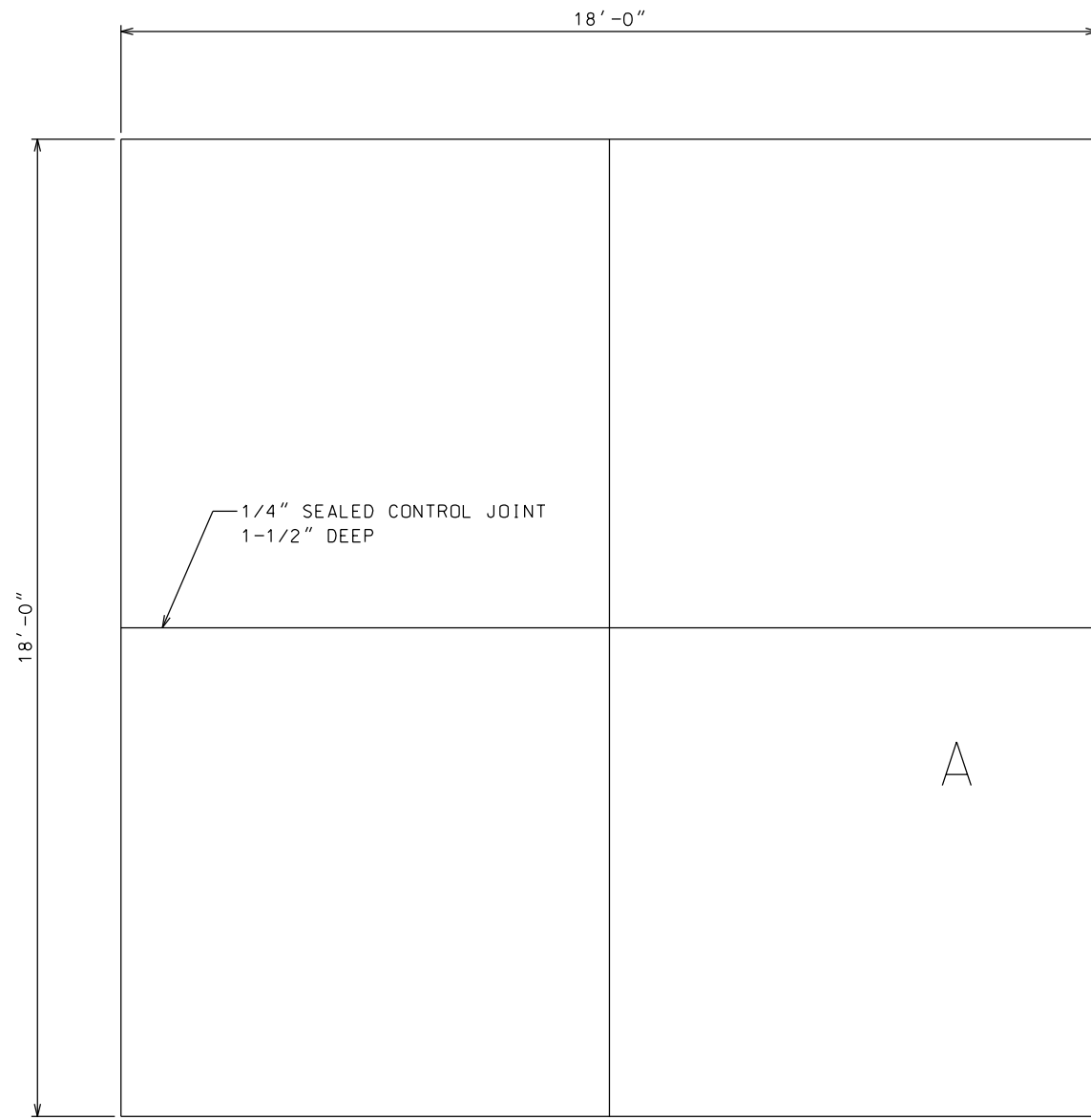
NO.	BY	REVISION
DATE		

DRAWN BY: PROJECT NUMBER:  
23-03-17-04

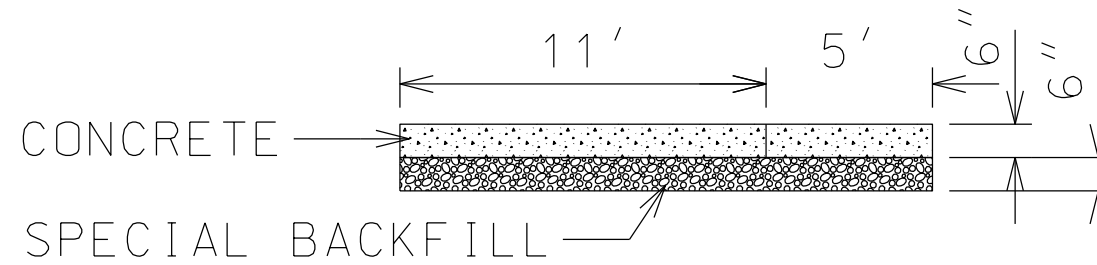
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**A.02**



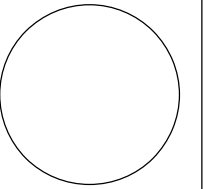
**CONCRETE PAD DETAIL**  
NOT TO SCALE



**CONCRETE PARKING PAD DETAIL**

NOT TO SCALE

CONSULTANT:



**IOWA DEPARTMENT OF  
NATURAL RESOURCES**

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



TYPICAL CROSS SECTIONS AND DETAILS

FSH CLEANING STATION FOR:

MCINTOSH WOODS STATE PARK

CERRO GORDO COUNTY

NO.	BY	REVISION

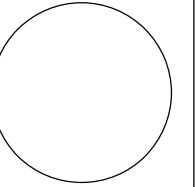
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23-03-17-04

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SHEET No:

**B.01**

CONSULTANT:



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



TYPICAL CROSS SECTIONS AND DETAILS

FSH CLEANING STATION FOR:  
MCINTOSH WOODS STATE PARK

CERRO GORDO COUNTY

NO.	BY	REVISION

DRAWN BY: PROJECT NUMBER:  
23-03-17-04

CHK'D BY: DATE:

SHEET No:

**B.02**

MUTCD R7-8  
SOLID GREEN LEGEND  
AND BORDER  
REFLECTIVE WHITE  
BACKGROUND  
WHITE ACCESSIBILITY  
SYMBOL ON  
BLUE BACKGROUND

MUTCD R7-8P  
SOLID GREEN LEGEND  
AND BORDER  
REFLECTIVE WHITE  
BACKGROUND  
REQUIRED FOR VAN  
ACCESSIBLE  
SPACES ONLY

SQUARE POST 2-1/4 IN.

SQUARE ANCHOR BASE  
2-1/2 IN. LOCATED AT TOP  
OF BOLLARD (IF  
EQUIPPED) OR TOP OF  
GROUND SURFACE

USE 6" PIPE BOLLARD  
FILLED W/CONCRETE  
AND PAINTED TRAFFIC  
YELLOW ONLY WHEN  
SIGN IS IN PAVED AREA  
OR SIDEWALK

SLOPE TOP OF  
CONCRETE

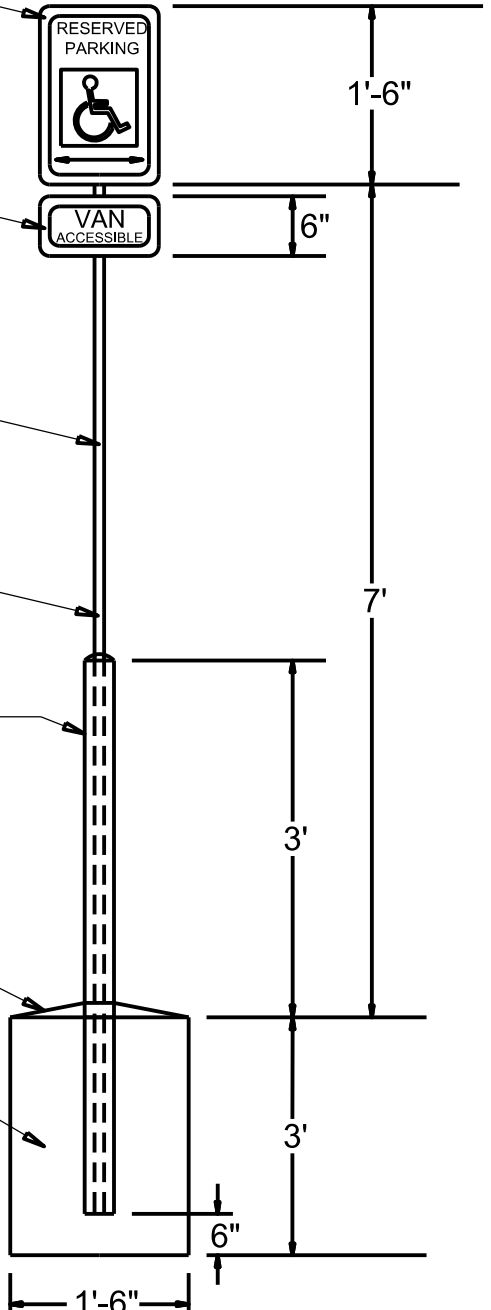
GROUND/PAVING  
SURFACE

3500 P.S.I. P.C.  
CONCRETE  
(WHEN PIPE  
BOLLARD IS NOT  
INSTALLED,  
FOUNDATION  
NOT REQUIRED)

**NOTES**

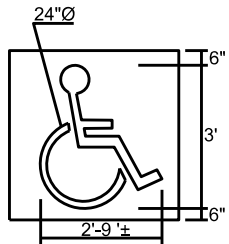
1. 12"x18" ACCESSIBILITY SIGN (R7-8) SHALL BE MOUNTED 7' FROM FINISH GRADE TO BOTTOM EDGE OF SIGN FACE. MOUNTING HEIGHT MAY BE REDUCED TO 5' IF PLACED IN A LANDSCAPE AREA IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
2. BOLLARD MAY BE OMITTED IF INSTALLED IN LANDSCAPE AREAS. WHEN INSTALLED IN LANDSCAPE AREAS, MOUNTING POST SHALL BE DRIVEN A MINIMUM OF 3' BELOW FINISHED GRADE. ALTERNATE MOUNTING POSTS MUST BE APPROVED BY THE FIELD INSPECTOR PRIOR TO CONSTRUCTION.
3. SIGNAGE SHALL BE INSTALLED IN FRONT OF EACH ACCESSIBLE SPACE, CENTERED ON THE WIDTH OF THE SPACE.
4. REFER TO AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES (ADAAG), LATEST EDITION, FOR REQUIRED NUMBER OF ACCESSIBLE SPACE. PER ADAAG, ONE VAN ACCESSIBLE SPACE SHALL BE PROVIDED, MINIMUM, WITH ADDITIONAL VAN ACCESSIBLE SPACES PER ADAAG REQUIREMENTS.
5. ALL SIGNAGE SHALL BE ENGINEER GRADE .080 ALUMINUM REFLECTIVE SIGN MEETING THE REQUIREMENTS OF THE MUTCD AND ADAAG.

**ADA SIGN DETAIL  
NOT TO SCALE**

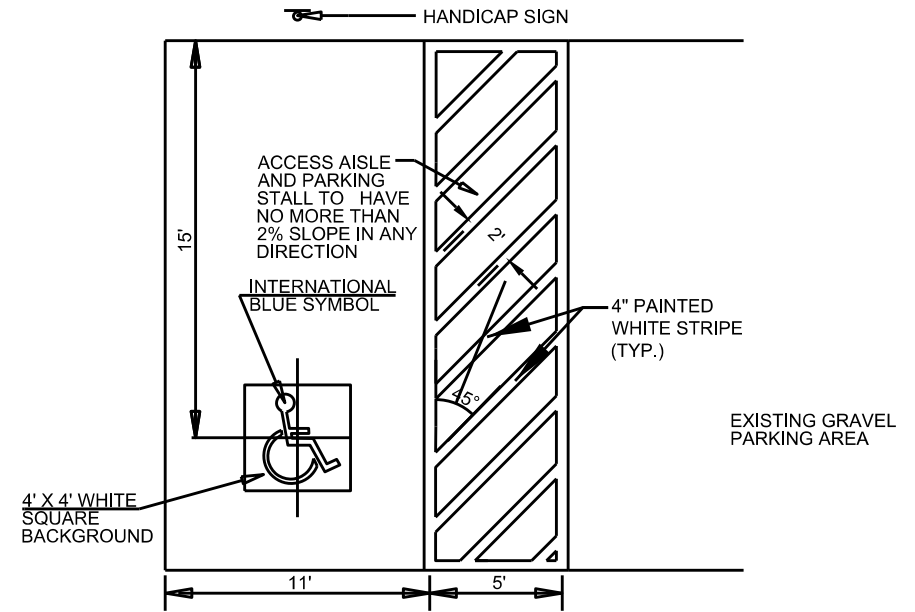


**PAVEMENT MARKINGS  
FOR PARKING STALLS  
DETAIL**

NOT TO SCALE



**HANDICAP PARKING  
PAVEMENT MARKING  
NOT TO SCALE**



ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	Mobilization	Lump Sum	1
2	Fish Cleaning Table	Each	1
3	Reinforced Concrete Pad	SY	36
4	Concrete Parking Pad	SY	37
5	Pavement Marking	Lump Sum	1
6	ADA Sign	Each	1
7	Special Backfill	Tons	24
8	Water Connection	Lump Sum	1
9	Electrical Connection	Lump Sum	1
10	Sanitary Connection	Lump Sum	1
11	Structure Removal and Reinstallation	Lump Sum	1
12	Site Restoration	Lump Sum	1

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
2	A. Removal and disposal of existing fish cleaning table shall be considered incidental to this bid item. B. New fish cleaning table shall be Quality Machine & Manufacturing Barracuda I 6096 w/2HP motor and lockable Winter cover, or approved equal. C. Utility locations through concrete pad shall be per Manufacturer's specifications.
3	A. Control joints shall be sealed, and are considered incidental to this bid item. B. Pad shall have a 1% crown. C. Removal of existing concrete pad and base material core out is considered incidental to this bid item.
4	A. Control joints shall be sealed, and are considered incidental to this bid item. B. Concrete shall be 6-inch depth over 6 inches of special backfill. C. Finished grade of concrete pad shall have a target grade of -1.5% and no more than -2%. D. Core out of approximately 1 foot of material shall be considered incidental to this bid item.
5-6	A. See details sheet B.02.
8	A. Includes all parts, supplies, materials, and labor to connect water to fish cleaning table.
9	A. Includes all conductors, conduit, supplies, materials, and labor to connect electric panel to fish cleaning table and structure. B. All conductors shall be sized per current NEC. C. Removal and replacement of canopy light area lights shall be considered incidental to this bid item. D. Canopy light (inside the roof) shall be - (1)Lithonia CNY LED canopy light 3500LM - 4000K CNY LED P1 40K MVOLT DDB M4, or approved equal. The fascia lights on the South and East sides shall be Wallpack Light (on fascia) - (2)Lithonia KAXW wallpack lights 3000LM - 4000K KAXW LED P1 4000K R4 MVOLT DDBXD, or approved equal. These shall be considered incidental to this bid item.
10	A. Includes all parts, supplies, material, and labor to connect septic tank to fish cleaning table. B. Sewer cleanout is considered incidental to this bid item, cover shall be Model 1400 KC as manufactured by Zurn Industries, Erie, PA, or approved equal.
12	A. Seed, fertilize, and mulch all disturbed areas. Work shall conform to current Iowa DOT Standard Specifications for Highway and Bridge Construction. B. Seed mix shall be IDOT permanent, urban.

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

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.

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.

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.

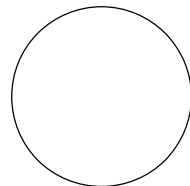
The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.

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.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

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.

CONSULTANT:



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



QUANTITIES AND GENERAL INFORMATION

FISH CLEANING STATION FOR:

MCINTOSH WOODS STATE PARK

CERRO GORDO COUNTY

NO. BY DATE REVISION

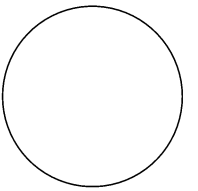
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SHEET NO.:

C.01

CONSULTANT:



IOWA DEPARTMENT OF  
NATURAL RESOURCES

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



SITE PLAN

FISH CLEANING STATION FOR:

MCINTOSH WOODS STATE PARK

CERRO GORDO COUNTY

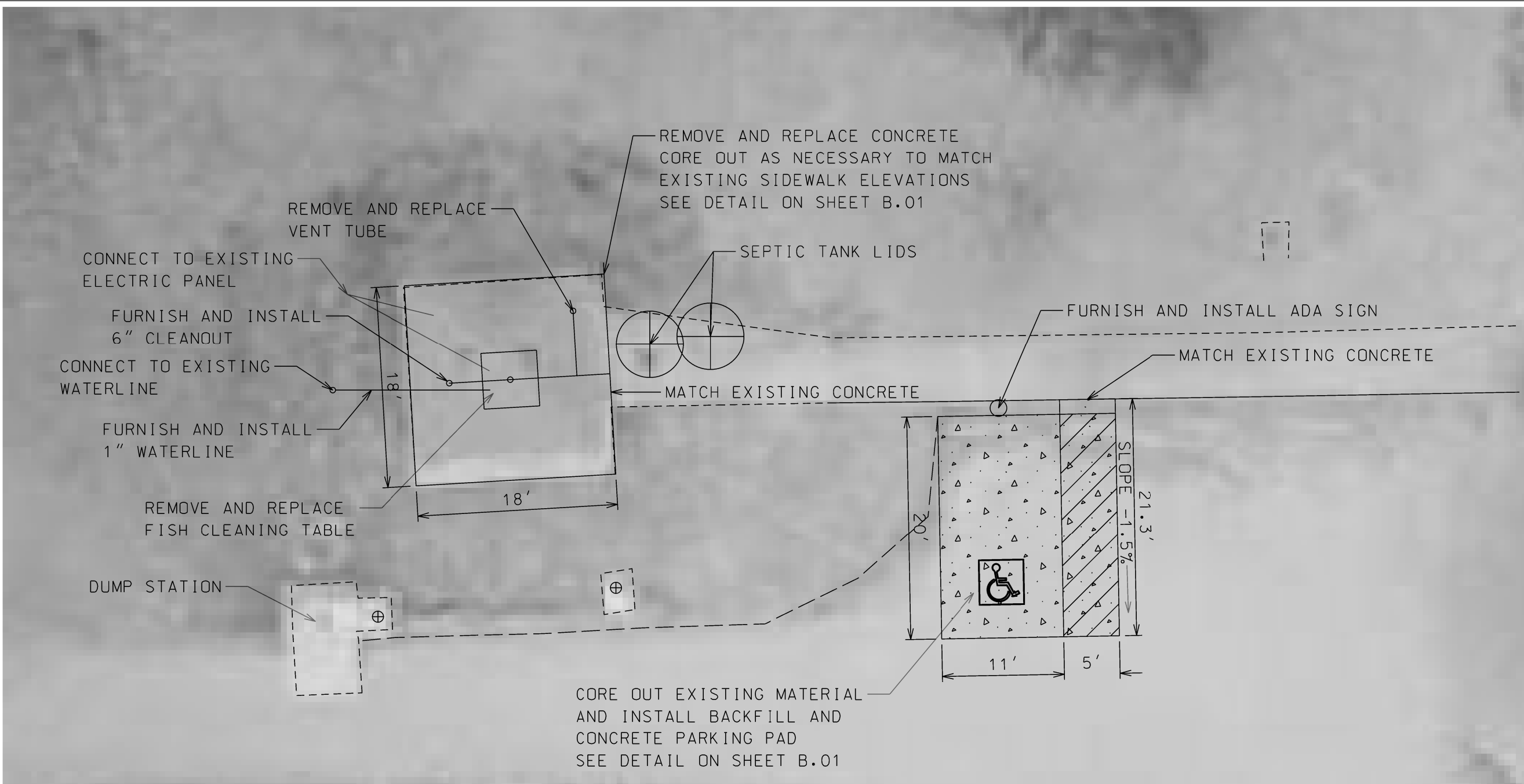
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23-03-17-04

CHK'D BY: DATE:

SHEET No:

**D.01**



NOTE:  
STRUCTURE IS SURFACE MOUNTED TO EXISTING SLAB.

NEW ANCHOR BOLTS SHALL BE 3/4" CAST-IN-PLACE OR EXPANDING ANCHORS.

NEW SEWER LINE SHALL BE 6" SCHEDULE 40 PVC.

CONTRACTOR SHALL KEEP THE SEWAGE DUMP STATION OPEN WITH THE EXCEPTION OF ANY NECESSARY CLOSURES AS APPROVED BY THE DNR PARK MANAGER OR DNR FIELD ENGINEER.

CONTRACTOR SHALL ENSURE THAT ELECTRIC SERVICE IS DE-ENERGIZED PRIOR TO COMMENCING WORK.

