STORY COUNTY CONSERVATION

Story County Conservation Board - McFarland Park 56461 180th St. - Ames, Iowa 50010-9451
Phone (515) 232-2516 - Fax (515)232-6989 - Email: conservation@storycounty.com
www.storycountyconservation.org

Memorandum

To: Story County Conservation Board

Through: Michael D. Cox, Director

From: Luke Feilmeier, Park Ranger

Date: July 13, 2020

Re: Consideration of Plans for the Hickory Grove Park Road Resurfacing Project

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The attached design plan set for resurfacing the asphalt portions of road at Hickory Grove Park. The road is in very poor condition. This project will also provide additional parking at the main boat ramp to help alleviate congestion. These plans were put together in partnership with Story County Engineers Office and the project is budgeted in FY21. We will set a bid opening date of August 4, 2020.

Staff urges your approval and recommendation to the Story County Board of Supervisors to approve the plans and release them for competitive bids.

Approval	Disapproval
Date	Date

Story County Conservation Board HMA RESURFACING Proj. No. SCCB-2020-01

Letting Date AUGUST 3, 2020

PROJECT TRAFFIC CONTROL PLAN

THE ROAD UP TO THE CAMPGROUND ENTRANCE WILL BE OPEN TO ONE LANE TRAFFIC DURING CONSTRUCTION HOURS AND REOPENED TO TWO LANE TRAFFIC AT THE END OF EACH WORK DAY, AND THE ROAD PAST THE CAMPGROUND ENTRANCE WILL BE CLOSED TO TRAFFIC FOR THE DURATION OF CONSTRUCTION ACTIVITIES. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08 OF THE CURRENT STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130.

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.

UTILITIES INFORMATION

UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR SHOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION STARTING DATE AND SUBSEQUENT WORK IN THE AREA.

ALLIANT ENERGY: 319-286-1315
COLO TELEPHONE CO: 641-377-2202
CONSUMERS ENERGY: 641-754-1642
IRUA: 641-792-7011
WINSTREAM: 1-800-289-1901

CONTRACTOR SHALL CALL ONE CALL AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. ONE CALL 1-800-292-8989

IOWA DEPARTMENT OF TRANSPORTATION

Highway Division

PLANS OF PROPOSED IMPROVEMENT FOR THE

STORY COUNTY CONSERVATION BOARD HMA RESURFACING

ON INTERIOR ROADS, AT HICKORY GROVE PARK, SECTION 24, R83N, T22W

Refer to Proposal Form for a list of applicable specifications.

Scales: As Noted

Project No. SCCB-2020-01

INDEX OF SHEETS

105-3 10-18-96

No.	Description
A.01	TITLE SHEET
B.01	TYPICAL SECTIONS SHEET
C.01	QUANTITY INFORMATION SHEET
D.01	PROJECT OVERVIEW SHEET
D.02	BOAT LAUNCH AREA PLAN VIEW SHEET
D.03	BEACH PARKING AREA PLAN VIEW SHEET

MILEAGE SUMMARY

105-1 10-22-96

Div.	Location	Lin. Ft.	Miles
I	STA. 0+00.00 TO STA. 23+16.00	2,316.00	0.438
I	STA. 1000+00.00 TO STA. 1002+58.00	258.00	0.049
I	STA. 2000+00.00 TO STA. 2002+18.00	218.00	0.041
I	STA. 3000+00.00 TO STA. 3001+89.00	189.00	0.036
I	STA. 4000+00.00 TO STA. 4001+41.00	141.00	0.027
	Total	3,122.00	0.591

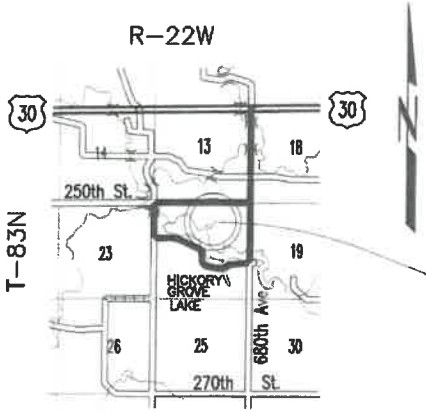
It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. These areas shall not impact wetlands or "Waters Of The U.S." No payment for 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.

STANDARD ROAD PLANS

105-4 10-15-11

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
PV-3	04-16-19	SAFETY EDGE
PV-202	04-21-20	HOT MIX ASPHALT RESURFACING
PR-201	10-21-14	RUNOUTS FOR RESURFACING
PR-202	10-21-14	NOTCHES FOR RESURFACING (WITH OR WITHOUT RUNOUT)
TC-213	10-15-19	LANE CLOSURE WITH FLAGGERS
TC-252	04-21-20	ROUTES CLOSED TO TRAFFIC



IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

PROJECT LOCATION

ON INTERIOR ROADS, AT HICKORY GROVE PARK, SECTION 24, R83N, T22W

Location Map Scale
0 0.5 1.0 1.5 miles

DESIGN DATA RURAL

2015 AADT <400 V.P.D.
Design: Standard Traffic

Accepted by

Conservation Director Date

Accepted by

Story County Conservation Board Date

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signed: Tyler Sparks Date: 7-6-20

My license renewal date is December 31, 2020

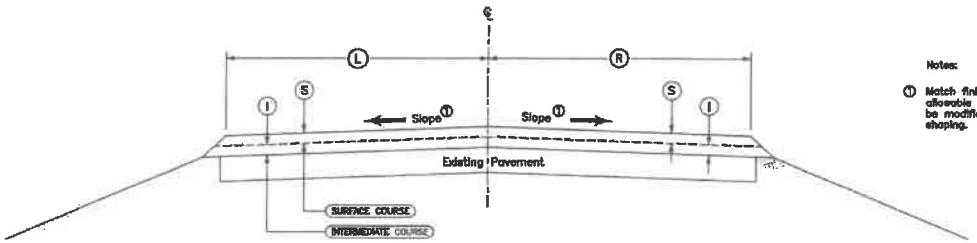
Pages or sheets covered by this seal:
(Entire submission unless specified here)

Approved Story County Board of Supervisors

PROJ No. SCCB-2020-01

TYPICAL SECTIONS SHEET

2602
Modified



Notes:

① Match finished slope to existing pavement, except that the maximum allowable slope is 3.0%, minimum allowable slope is 2.0%. Section may be modified as directed by the Engineer through areas of special shaping.

LOCATION			S	I	L	R
ROAD IDENTIFICATION	STATION TO STATION		Inches	Inches	Feet	Feet
Main Road	0+00.00	6+75.00	1½	1½	11.0	11.0
Main Road	6+75.00	23+16.00	1½	1½	10.0	10.0
Boat Launch–Rigging Lane	1000+00.00	1002+58.00	1½	1½	6.5	6.5
Boat Launch–Entrance Lane	2000+00.00	2002+18.00	1½	1½	6.5	6.5
Boat Launch–Exit Lane	3000+00.00	3001+89.00	1½	1½	6.5	6.5
Beach Road	4000+00.00	4001+41.00	1½	1½	10.0	10.0

TYPICAL CROSS SECTION
HMA RESURFACING

Full–Depth Patching Details

Modified

STATION to STATION	SIDE	LENGTH	WIDTH	DEPTH	COMMENTS
1+08.0 to 1+60.0	Both	52.0'	24.0'	6"	138.7 sy
3001+50.0 to 3001+77.7	Both	27.7'	var.	6"	44.8 sy
4000+09.0 to 4001+20.1	Rt.	128.9'	20.0'	6"	288.7 sy

Removal of Pavement

Modified

STATION to STATION	LENGTH	WIDTH	DEPTH	SAWCUT	COMMENTS
23+16.0 to 23+52.0	36.0'	20.0'	6"	20.0'	80.8 sy
1000+00.0 to 1000+50.0	50.0'	var.	6"	88.7'	156.1 sy
2001+52.0 to 2002+18.0 Rt.	166.0'	var.	6"	60.0'	75.7 sy

Full–Depth HMA Paving

Modified

STATION to STATION	LENGTH	WIDTH	THICKNESS			CLASS 10 EXCAV.	SPEC. BACKFILL	
			BASE	INTER.	OVERLAY	CY	CY	COMMENTS
0+73.1 to 1+98.3	125.2'	var.	3"	1½"	1½"	15.1	15.1	136.1 sy (right side)
1000+00.0 to 1000+46.0	46.0'	var.	3"	3"	3"	17.3	17.3	156.1 sy (boat ramp entrance)
1002+74.6 to 1003+53.7	79.1'	40.0'	3"	1½"	1½"	39.1	39.1	351.8 sy (lower boat parking)
3000+95.0 to 3001+68.0	var.	42.0'	3"	1½"	1½"	46.9	46.9	419.3 sy (upper boat parking)

Class 10 Excavation

Modified

STATION to STATION	LENGTH	WIDTH	DEPTH	CY	COMMENTS
0+73.1 to 1+98.3	125.2'	var.	7"	26.5	
1000+00.0 to 1000+46.0	46.0'	var.	10"	15.0	
1002+74.6 to 1003+53.7	79.1'	40.0'	7"	68.4	
3000+95.0 to 3001+68.0	var.	42.0'	7"	81.5	

FILE LOCATION: B:\AUTOCAD\PROJECTS\RESURFAC\2020 HENDRY GROVE RESURFACING\DWG\BASE.DWG

STORY COUNTY CONSERVATION BOARD

PROJ No. SCCB-2020-01

QUANTITY INFORMATION SHEET

ESTIMATED PROJECT QUANTITIES OF QUANTITIES (1 DIVISION PROJECT)

100-1A

ITEM	ITEM CODE	ITEM	UNIT	TOTAL
1	2102-0425071	SPECIAL BACKFILL	CY	118.4
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	191.4
3	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	0.6
4	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	472.2
5	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	3.0
6	2214-5145150	PAVEMENT SCARIFICATION	SY	17.3
7	2303-1131500	HMA, ST, BASE COURSE, 1/2 IN. MIX	SY	1083.3
8	2303-1132500	HMA, ST, INTERMEDIATE COURSE, 1/2 IN. MIX	SY	8,540.9
9	2303-1133500	HMA, ST, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION	SY	8,540.9
10	2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 IN. DIA.	LF	40.0
11	2510-6745850	REMOVAL OF PAVEMENT	SY	312.6
12	2527-9263112	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	STA	5.0
13	2528-8445110	TRAFFIC CONTROL	LS	1.0
14	2528-8445113	FLAGGER	EACH	6.0
15	2533-4980005	MOBILIZATION	LS	1.0

GENERAL NOTES

Story County will mark out scarification and removal sawcuts prior to construction.

Unless otherwise directed or authorized, all hot mix asphalt and other bituminous materials which are not specifically addressed or described in the contract documents shall become the property of the Contractor.

The Contractor, in accordance with current rules and regulations of the Iowa Department of Natural Resources, may:

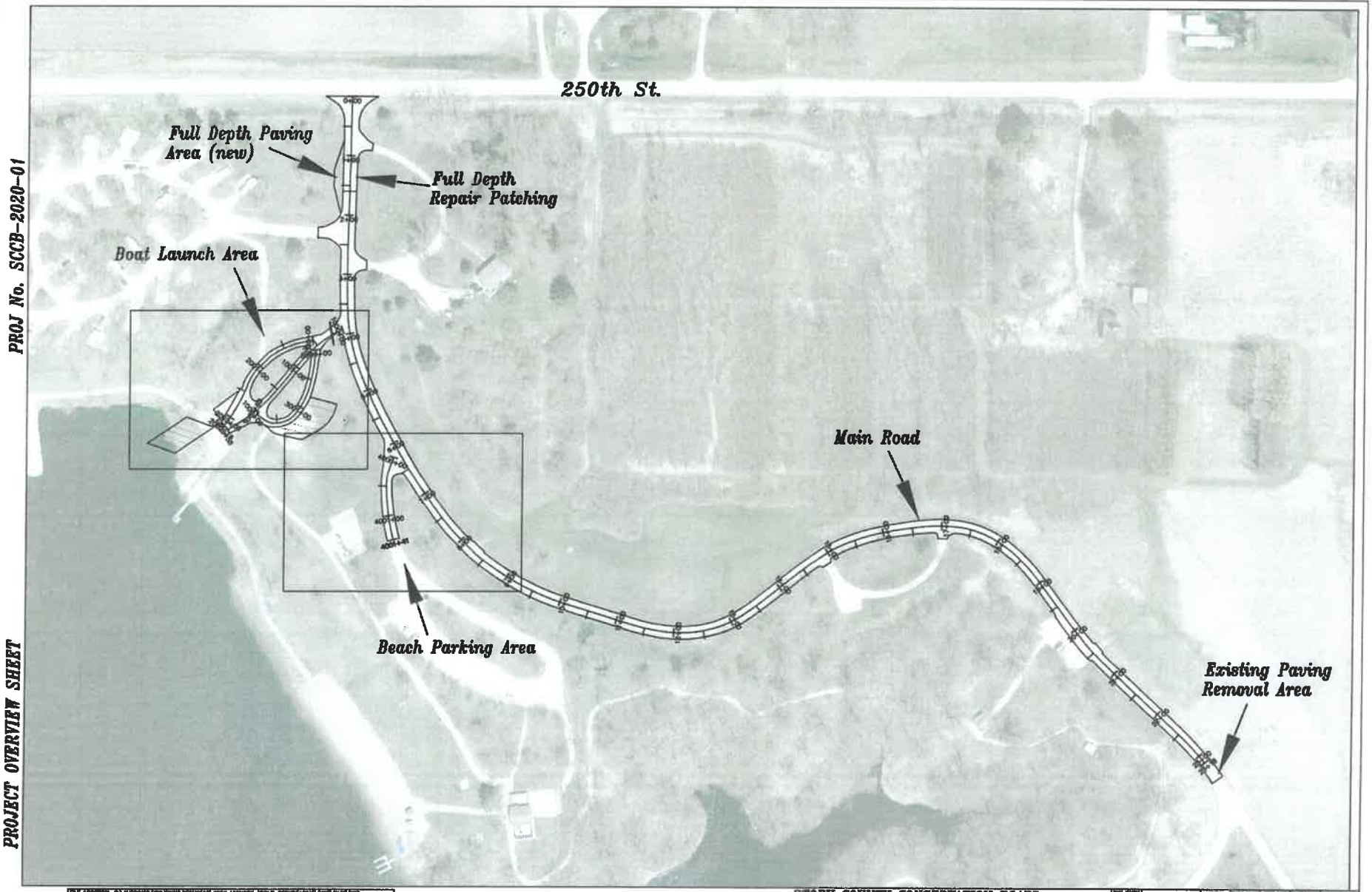
1. With the approval of the Contracting Authority, blend or otherwise process the material for use with shoulder or special backfill aggregate, for use on the project.
2. With the approval of the Contracting Authority, place with material in areas designated by the Contracting Authority as Soil Aggregate Subbase without extra charge.
3. Remove the material from the project and stockpile for the contractor's future use.

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
1.	Item for 4" subbase under full-depth paving areas. See tabulation on Sheet B.01 for details. Includes finish grading for paving. Type A Compaction is required.
2.	Excavation for full depth parking lots, parking lane at Park entrance, and boat ramp entrance widening. Plan quantity is based on approximately 2.4 CY of fill (30% shrink factor) and 191.4 CY of cut. Contractor to waste approx. 189.0 CY of material to achieve dirt balance. Any excess material may be stockpiled at Hickory Grove Park with location approved by the Contracting Authority. No payment for overhaul will be made. Type A Compaction is required in fill areas. This item includes stripping, stockpiling, and spreading topsoil. Topsoil to be spread to a minimum 4" on all disturbed areas from catch points to edge of road. Slopes to be finished smooth to allow for seeding.
3.	Item is for entire project with variable width lanes.
4.-5.	See Plan View Detail sheets for location and tabulation on Sheet B.01 for stationing and quantities.
6.	Scarification is located at Sta. 1002+58 where HMA abuts existing PCC boat ramp. To be marked out by County prior to construction. Quantity is estimated at 6 feet wide by 26 feet long.
7.	Item for areas that require full depth paving. See tabulations on Sheet B.01 for details.
8.-9.	QMA does not apply. Each item quantity is for a 1½" lift of Standard Traffic design overlay with variable width lanes for entire the project. Quantity includes roads of varying widths and radii of various sizes. Safety Edge shall be used on both lifts. See Standard Road Plan PV-3 for details. Tack coat is incidental to this item.
10.	Culvert installation at Sta. 1000+25.00 on the boat ramp area entrance. County will stake and grade prior to installation.
11.	Item for the removal and disposal of existing HMA paving. Existing pavement is 2" HMA and 4" of asphalt treated base. See tabulation on Sheet B.01 for details. Cost of sawcuts included in item bid price.
12.	Item for painting parking stalls. Five lines, 50 feet long in each of two parking areas, as shown on Sheet D.02 for quantity total. County to mark out lines prior to painting.
13.	See Project Traffic Control Plan on Sheet A.01 for traffic control notes, and refer to TC Standard Road Plans for further details. Access to campgrounds must be maintained at all times.
14.	Flaggers to be used when working at the beginning of project. Campground access must be maintained at all times.

PROJ No. SCCB-2020-01

PROJECT OVERVIEW SHEET



STORY COUNTY CONSERVATION BOARD

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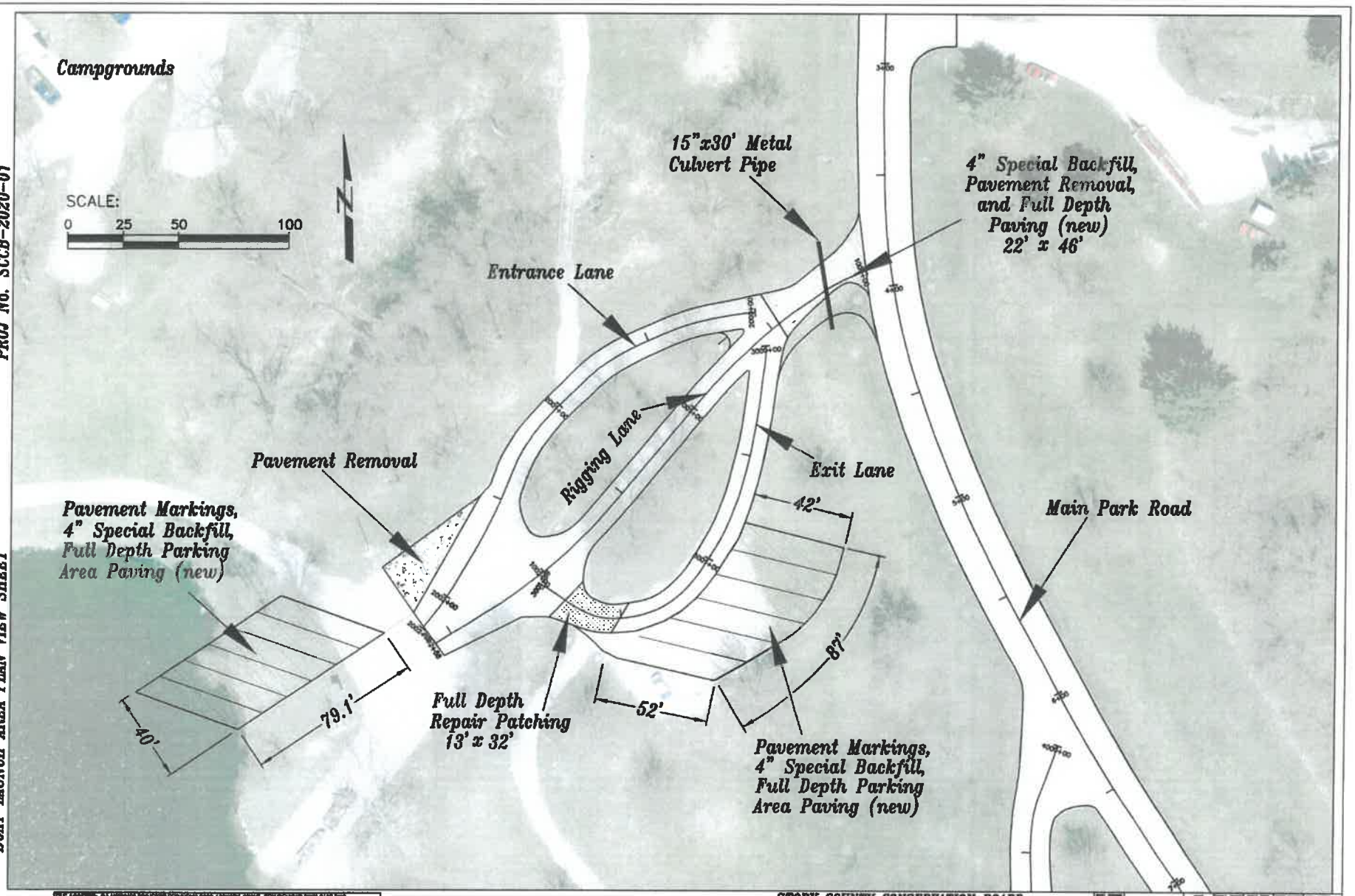
BOAT LAUNCH AREA PLAN VIEW SHEET



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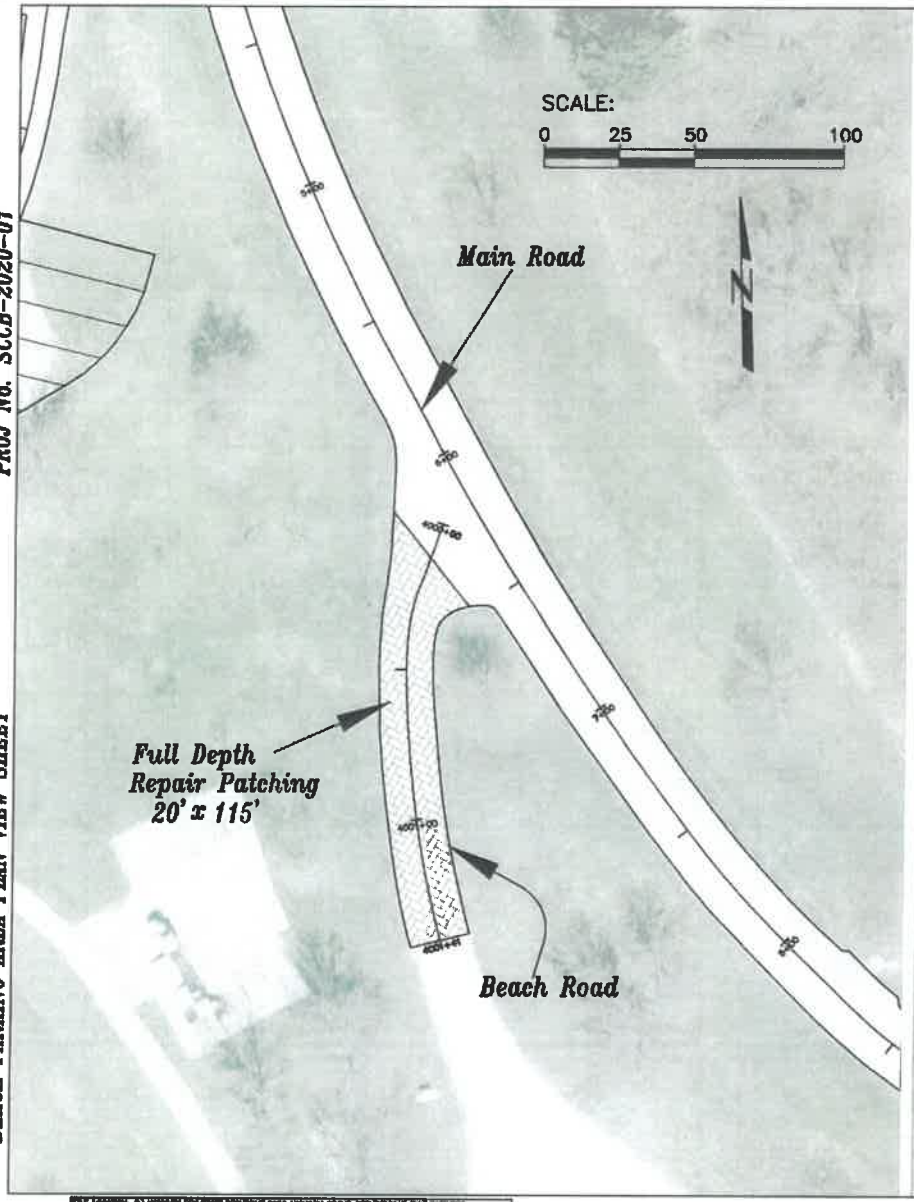
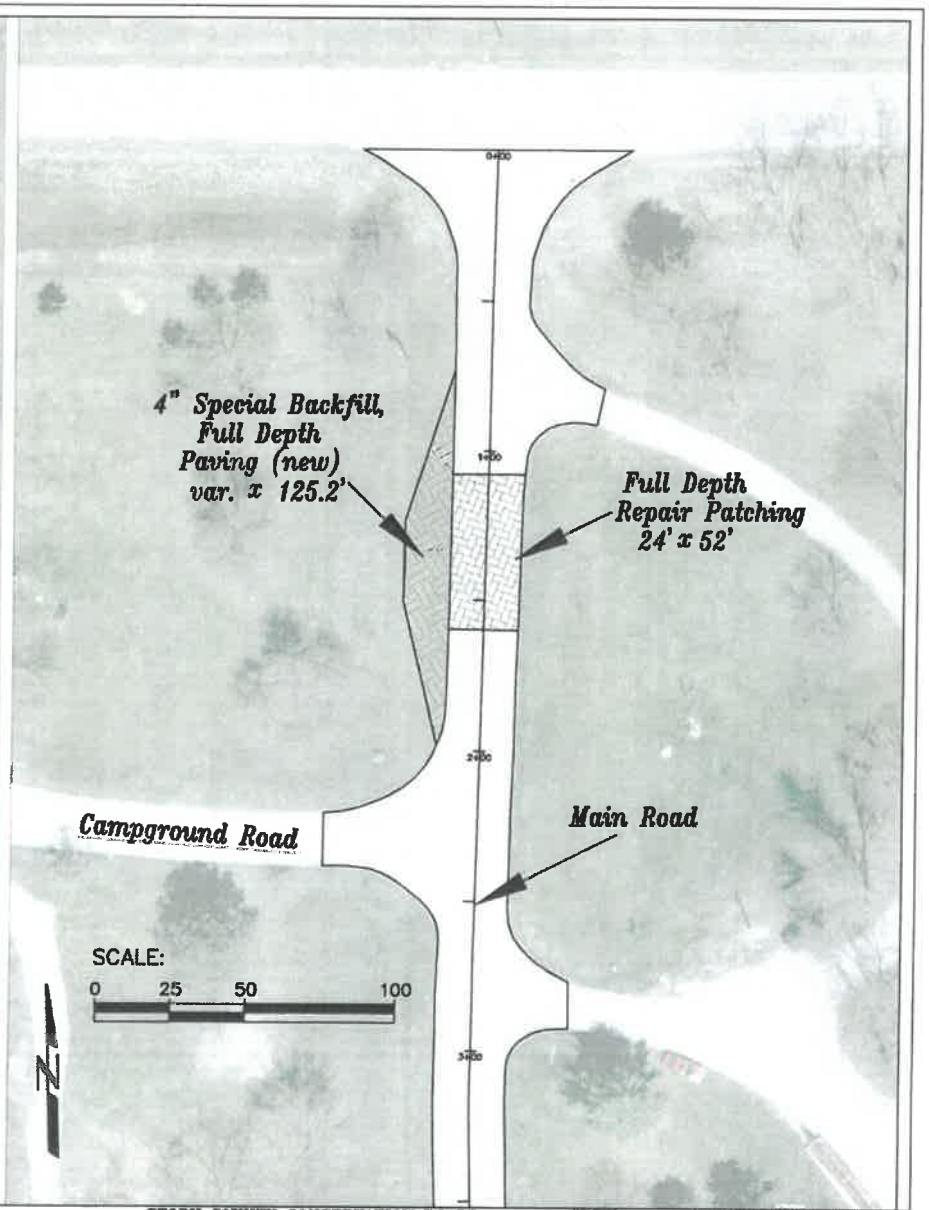
BEACH PARKING AREA PLAN VIEW SHEET





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