INDIANA DEPARTMENT OF NATURAL RESOURCES
WILLIAMS DAM FISH AND WILDLIFE AREA
SPICE VALLEY PUBLIC ACCESS SITE
LAWRENCE COUNTY

1" = 5000'

DRIVING DIRECTIONS:
From Indianapolis, take Indiana State Road 37 South to 16th Street in Bedford. Turn right onto 16th Street and then in 0.2 miles turn left onto Williams Road/ Indiana State Road 450 West. Take Indiana State Road 450 W approximately 8.5 miles to the site.
DEMONSTRATION PLAN
Indiana Dept. of Natural Resources
Public Access Sites
Improvement Projects

510 SYDS
TOPSOIL STRIPPING
FOR SHOULDER WORK

2,508 SYDS
GRAVEL DEMOLITION

WHITE RIVER

GRAVEL DEMOLITION AREA

SHOULDER TOPSOIL REMOVAL

DEMOLITION NOTES:
1. EXISTING CONCRETE PADS AND APRONS TO REMAIN.
2. GRAVEL SURFACE TO BE POTHOLED FOR TOTAL ROCK DEPTH,
SCRAPE A NOMINAL 1/2" DEPTH, AND PATCHED WHERE
NECESSARY PRIOR TO ANY HMA SURFACE PLACEMENT.
COORDINATE WITH SITE MANAGER FOR WASTE DISPOSAL AREA.

VS ENGINEERING, INC.
203 Main Street
Evansville, Indiana 47708
Phone: (812) 401-3030
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4726 North High School Rd
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Fax: (317) 263-4737
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07/20/2018

07/20/2018

18-3909

C 4.3
1,255 SYDS MEDIUM DUTY HMA
1,025 SYDS HEAVY DUTY HMA
GRADE GRASS SHOULDER TO PAVEMENT EDGE. GRADE TO DRAIN TO RIVER.
PAVEMENT EDGE COINCIDES WITH R/W ±2.0'
243 SYDS GRAVEL

WHITE RIVER

HEAVY DUTY HMA PAVING
MEDIUM DUTY HMA PAVING
SHOULDER BACKFILL
DIRECTION OF SURFACE RUNOFF

GENERAL NOTES:
1. EXISTING CONCRETE APRONS AND PADS TO REMAIN.
2. MATCH EXISTING GRADES AND DRAINAGE PATTERNS.
3. SEE SHEET C 4.6 FOR SECTION A-A.

PAVING AND PATCHING PLAN
Indiana Dept. of Natural Resources
Public Access Sites
Improvement Projects

SCALE: As Noted
DATE: 07/20/2018
DRAWN BY: JKS
PROJECT#: 18-3909
DRAWING: C 4.4
GENERAL NOTES:
1. SEE SHEET C 13.5 FOR ADA STALL STRIPING AND SIGNAGE REQUIREMENTS.
2. NOMINAL PARKING WITH BOAT TRAILERS IS 12’ WIDE BY 40’ DEEP AT A 45° SKEW.

PAVEMENT MARKING PLAN
Indiana Dept. of Natural Resources
Public Access Sites
Improvement Projects

SCALE: As Noted
DATE: 07/20/2018
DRAWN BY: JKL
PROJECT#: 18-3909
DRAWING: C 4.5
GENERAL NOTES:
1. SR 450 IS A MAXIMUM 24' WIDE ASPHALT ROADWAY WITH TWO LANES, NO CURB, AND GRASS SHOULDERS.
2. SR 450 IS SUPER ELEVATED ALONG THE PROJECT FRONTAGE.
3. PROPOSED IMPROVEMENTS PROVIDE A NOMINAL 8' GRASS SHOULDERS.
4. HIGHWAY DRAINAGE CONTINUES HISTORIC PATTERN OF DRAINING OFF THE PAVEMENT TO THE SOUTH AND ACROSS IDNR PUBLIC ACCESS SITE TO WHITE RIVER.
1' GRIND OFF EXISTING 1 3/4" SURFACE AND REPAVE WITH REPAIR.

EXISTING PAVEMENT EDGE TO BE SAW CUT BY CONTRACTOR

ALL EXISTING BITUMINOUS SURFACES THAT MEET WITH THE NEW BITUMINOUS SURFACES SHALL BE CLEANED AND COVERED WITH ASPHALT EMULSION TACK (AE-T) PER INDOT STANDARDS. (MAY BE DELETED BY THE ENGINEER)

MILLING SHALL CONFORM TO SEC. 306 OF INDOT SPECS.

ASPHALT JOINT DETAIL

NTS

MATCH EXISTING GRAVEL DEPTH

TYPE II SUBGRADE TREATMENT
(6" OF THE SUBGRADE EXCAVATED AND REPLACED WITH COARSE AGGREGATE NO. 53)

GRAVEL PATCH & REPAIR

NTS

MATERIALS, PAY ITEMS, AND STANDARDS SHALL MEET 2018 INDIANA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, UNLESS NOTED OTHERWISE.

DETAIL SHEET
Indiana Dept. of Natural Resources
Public Access Sites
Improvement Projects

SCALE: As Noted
DATE: 07/20/2018
DRAWN BY: JKS
PROJECT#: 18-3909
DRAWING: C 13.1
REMOVE EXISTING GRAVEL SURFACE 1/2"

330 LB/SY HMA BASE, TYPE C, 19.0mm

MINIMUM 192.5 LB/SY HMA INTERMEDIATE*, TYPE C, 12.5mm

ASPHALT EMULSION TACK (AE-T) PER INDOT STANDARDS BETWEEN BITUMINOUS LAYERS (MAY BE DELETED BY THE ENGINEER)

0.5" 1.75"

PATCH EXISTING GRAVEL AREAS THAT FAIL PROOF ROLL AS PER SHEET C 13.1

PROVIDE AGGREGATE SHOULDER WEDGE TO MATCH GRADE BEYOND PAVING LIMITS OF EXISTING GRAVEL AREA.

3 1

MILLING SHALL CONFORM TO SEC. 306 OF INDOT SPECS.

CRACK REPAIR AND FILLING SHALL CONFORM TO SEC. 408 OF INDOT SPECS.

*IN AREAS OF EXISTING ASPHALT AND/OR CONCRETE TO BE MILLED AND RESURFACED, 192.5 LB/SYD HMA INTERMEDIATE, TYPE C, 12.5 mm SHALL BE USED FOR FINAL SURFACE.

CONTRACTOR SHALL REPAIR ALL PAVEMENT CRACKS EQUAL TO OR GREATER THAN 1/4" IN WIDTH WITHIN EXISTING ASPHALT.

HMA SURFACING OF EXISTING AGGREGATE

MATERIALS, PAY ITEMS, AND STANDARDS SHALL MEET 2018 INDIANA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, UNLESS NOTED OTHERWISE.
330 LB/SY HMA BASE, TYPE C, 25.0mm

330 LB/SY HMA BASE, TYPE C, 25.0mm

220 LB/SY HMA INTERMEDIATE, TYPE C, 19.0mm

ASPHALT EMULSION TACK (AE-T) PER INDOT STANDARDS BETWEEN BITUMINOUS LAYERS (MAY BE DELETED BY THE ENGINEER)

TYPE II SUBGRADE TREATMENT*
(6" OF THE SUBGRADE EXCAVATED AND REPLACED WITH COARSE AGGREGATE NO. 53)

* IF SUBGRADE FAILS PROOF ROLLING, REPLACE SUBGRADE TREATMENT II WITH TYPE IV SUBGRADE TREATMENT.

STANDARD AND MEDIUM DUTY HMA PAVEMENT

MATERIALS, PAY ITEMS, AND STANDARDS SHALL MEET 2018 INDIANA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, UNLESS NOTED OTHERWISE.

[Signature]
07/20/2018

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DETAILED SHEET
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SCALE: As Noted
DATE: 07/20/2018
DRAWN BY: JKS
PROJECT #: 18-3909
DRAWING: C.13.3
440 LB/SY HMA BASE, TYPE C, 25.0mm

440 LB/SY HMA BASE, TYPE C, 25.0mm

330 LB/SY HMA INTERMEDIATE, TYPE C, 19.0mm

ASPHALT EMULSION TACK (AE-T) PER INDOT STANDARDS BETWEEN BITUMINOUS LAYERS (MAY BE DELETED BY THE ENGINEER)

TYPE IC SUBGRADE TREATMENT*
(12" OF THE SUBGRADE EXCAVATED AND REPLACED WITH COARSE AGGREGATE NO. 53)

* IF SUBGRADE FAILS PROOF ROLLING, REPLACE SUBGRADE TREATMENT IC WITH TYPE IV SUBGRADE TREATMENT.

HEAVY DUTY HMA PAVEMENT

MATERIALS, PAY ITEMS, AND STANDARDS SHALL MEET 2018 INDIANA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, UNLESS NOTED OTHERWISE.
NOTE:
1. REFLECTIVE BLUE BACKGROUND WHITE LETTERING AND SYMBOL LETTERING MINIMUM 1" HEIGHT.
2. SIGN TO BE MOUNTED ON 2" METAL POST.
3. ONE SIGN PER ACCESSIBLE SPACE.
4. VAN ACCESSIBLE SIGN TO BE MOUNTED BELOW STANDARD ACCESSIBLE SIGN WHERE SPECIFIED ON PLANS, COLORING TO MATCH.
5. SEE DETAIL SHEET C 13.6 FOR ADA SIGN MOUNTING

ADA PARKING SIGN (TYP.)

N Ts

GENERAL NOTES:
1. PAVEMENT MARKINGS ARE TYPICAL 4" WIDTH FOR STRIPING AND ADA SYMBOL.
2. TRAFFIC PAINT APPLICATIONS REQUIRE A MINIMUM OF TWO COATS.
3. ADA STRIPING SHALL BE BLUE AS PER IAC 5-16-9.
4. PASSENGER VEHICLES MAY SHARE THE VAN LOADING ACCESS AISLE WHEN ADJACENT TO EACH OTHER.
5. SLOPES WITHIN THE PARKING STALL, ACCESS AISLE, AND PATH OF TRAVEL SHALL NOT EXCEED 2.0% SLOPES. RAMPS SHALL NOT EXCEED 12:1 SLOPES WITH A MAXIMUM DISTANCE OF 6'-0".

CURB STOP 2.5' OFF OF EDGE OF PAVEMENT (TYP.)

ADA PARKING STALL (CAR)

CURB STOP 2.5' OFF OF EDGE OF PAVEMENT (TYP.)

ADA PARKING STALL (VAN)

CURB STOP 2.5' OFF OF EDGE OF PAVEMENT (TYP.)

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SCALE: As Noted
DATE: 07/20/2018
DRAWN BY: JKS
PROJECT #: 18-3909
DRAWING: C 13.5
NOTE:
1. REFLECTIVE WHITE BACKGROUND RED LETTERING AND SYMBOL LETTERING MINIMUM 1" HEIGHT.
2. SIGN TO BE MOUNTED ON 2" METAL POST.
3. ONE SIGN PER SPACE.
4. SEE DETAIL SHEET C 13.6 FOR SIGN MOUNTING REQUIREMENTS.

NO PARKING SIGN (TYP.)

SIGN POST MOUNTING (TYP.)

MATERIALS, PAY ITEMS, AND STANDARDS SHALL MEET 2018 INDIANA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, UNLESS NOTED OTHERWISE.