

VENOY-DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

PART OF THE ROUGE RIVER AOC WAYNE COUNTY HABITAT RESTORATION PROJECT
WAYNE COUNTY, MICHIGAN

FOR BIDDING - DECEMBER, 2021



PREPARED BY:



WITH:



VENOY-DORSEY PARK
WAYNE COUNTY, MI
NOT TO SCALE



PROJECT LOCATION MAP
NOT TO SCALE



PROJECT VICINITY MAP
NOT TO SCALE

DRAWING INDEX

1. COVER SHEET
2. EXISTING CONDITIONS - OVERVIEW
3. EXISTING CONDITIONS - ZONE A
4. EXISTING CONDITIONS - ZONE B
5. EXISTING CONDITIONS - ZONE C
6. EXISTING CONDITIONS - NOTES
7. SITE PREPARATION PLAN
8. DEMOLITION PLAN - WEST
9. DEMOLITION PLAN - EAST
10. PROPOSED CONDITIONS - OVERVIEW
11. PROPOSED CONDITIONS - ZONE A
12. PROPOSED CONDITIONS - ZONE B
13. PROPOSED CONDITIONS - ZONE C
14. PROPOSED CONDITIONS - ZONE D
15. PROPOSED CONDITIONS - STREAMBANK STABILIZATION
16. RESTORED GRAVEL LOT 1
17. RESTORED GRAVEL LOT 2
18. PROPOSED CONDITIONS - PAVING 1
19. PROPOSED CONDITIONS - PAVING 2
20. PROPOSED CONDITIONS - PAVING 3
21. PROPOSED CONDITIONS - PAVING 4
22. PROPOSED CONDITIONS - ADA ACCESSIBLE RAMP
23. REVEGETATION PLAN - OVERVIEW
24. REVEGETATION PLAN - WEST
25. REVEGETATION PLAN - EAST
26. CROSS SECTIONS
27. DETAILS - GENERAL
28. DETAILS - STAIRS
29. DETAILS - BIORETENTION
30. DETAILS - PARKING
31. DETAILS - REVEGETATION 1
32. DETAILS - REVEGETATION 2
33. WAYNE COUNTY EXHIBITS



ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENYO DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES

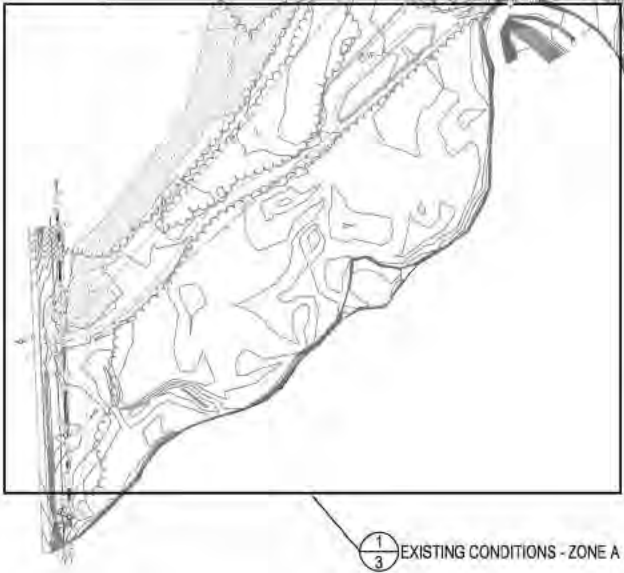
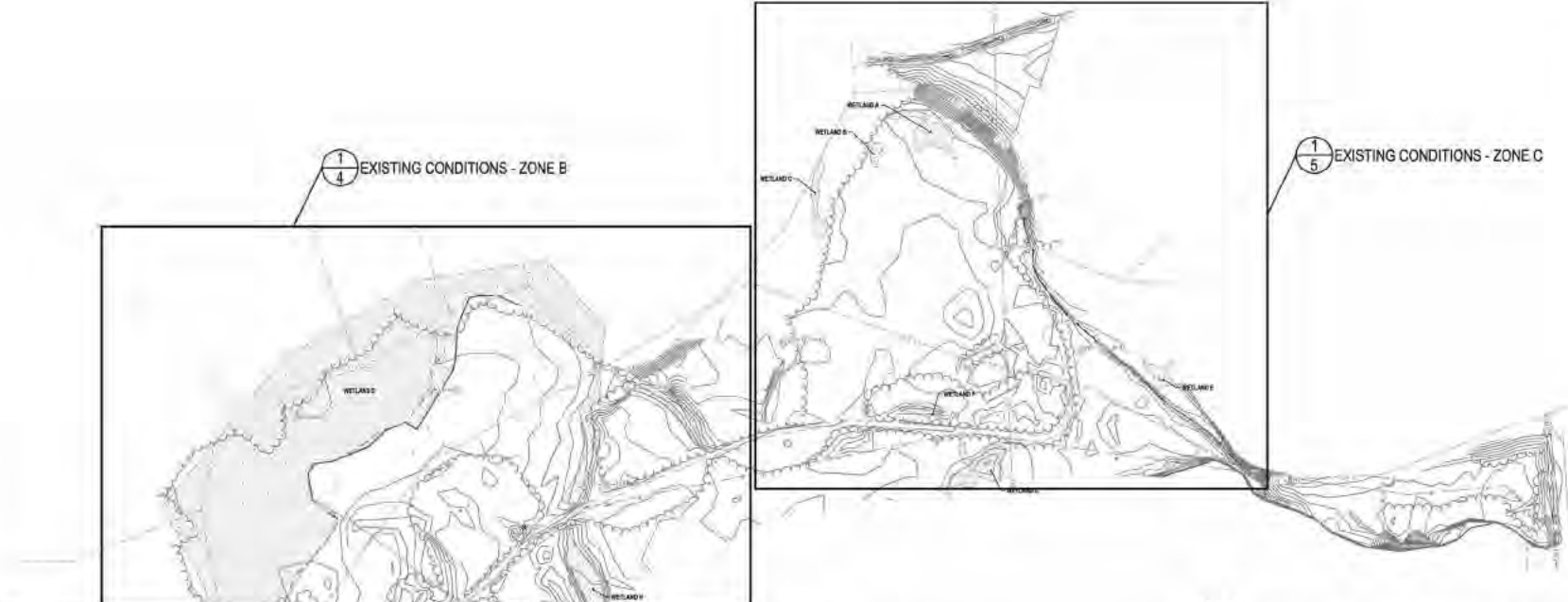
WAYNE COUNTY, MICHIGAN

FOR REVIEW: 11-2011
 AGENCY REVIEW: 10-2011
 CLEARANCE/COMPLIANCE APPROVED: 10-2011

2011-10-28
 OF PROJECT NUMBER: 10-2011-001
 DESIGNED BY: [Signature] CHECKED BY: [Signature]
 DRAWN BY: [Signature] APPROVED BY: [Signature]

EXISTING CONDITIONS - OVERVIEW

SCALE 1" = 100' @ 20" x 34"



EXISTING SITE CONDITIONS

1. CONTRACTOR SHALL BECOME FAMILIAR WITH ALL EXISTING SITE CONDITIONS PRIOR TO STARTING WORK.
2. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THE PERFORMANCE OF THE WORK IS REQUIRED WITHIN THE ROUGE RIVER SYSTEM AND FLOODPLAIN AND THAT THE ROUGE RIVER WATER LEVEL FLUCTUATES.
3. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THEY HAVE TAKEN INTO ACCOUNT THE POTENTIAL FOR ANY WATER LEVEL CHANGES THAT MIGHT OCCUR IN COSTING, SCHEDULING, AND FEASIBILITY OF PERFORMING THE CONTRACT WORK UNDER THE PREVAILING ENVIRONMENTAL CONDITIONS. THEREFORE THE CONTRACTOR ACKNOWLEDGES THAT ANY FLUCTUATION IN WATER LEVELS, FLOODING, OR INUNDATION DURING THE COURSE OF THE PROJECT IS LIKELY AND DOES NOT CONSTITUTE A CHANGE IN CONDITIONS OR AN UNFORESEEN SITE CONDITION.
4. THE CONTRACTOR SHALL BE FULLY AWARE OF THE ROUGE RIVER HYDROLOGY AND CURRENT WEATHER CONDITIONS SO THAT WORK CAN BE SECURED AND PROTECTED AT ALL TIMES, SO THAT SAFE JOB SITE WORKING CONDITIONS ARE MAINTAINED AND SO THAT SOIL EROSION IS CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE PERMITS AND ENVIRONMENTAL LAWS.
5. THE CONTRACTOR ACKNOWLEDGES THAT DELAYS IN THE START OF, OR COMPLETION OF, WORK DUE TO FLUCTUATIONS IN WATER LEVEL THROUGHOUT THE DURATION OF THE PROJECT SHALL NOT CONSTITUTE A CHANGE IN CONDITIONS NOR SHALL BE A BASIS FOR ANY EXTENSION OF TIME OR DAMAGES. IF THE CONTRACTOR SHALL BE UNAVOIDABLY DELAYED IN BEGINNING OR FULFILLING THIS CONTRACT BY REASONS OF CHANGING WATER LEVELS, STORMS, INUNDATION OR FLOODS, THE CONTRACTOR SHALL HAVE NO VALID CLAIM FOR DAMAGES, BUT SHALL IN SUCH CASE BE ENTITLED TO AN EXTENSION OF TIME AS THE ENGINEER SHALL ADJUDGE TO BE JUST AND REASONABLE, PROVIDED THAT FORMAL CLAIM FOR AN EXTENSION OF TIME IS MADE IN WRITING BY THE CONTRACTOR WITHIN 14 DAYS OF THE ALLEGED DELAY.
6. THE ENGINEER RESERVES THE RIGHT TO SUSPEND WORK ACTIVITIES WHEN IT IS IN THE BEST INTEREST OF THE PROJECT TO DO SO DUE TO WEATHER, FLOW, OR WATER LEVEL CONDITIONS. THE DIRECTION TO SUSPEND WORK ACTIVITIES SHALL BE SUBMITTED TO THE CONTRACTOR, BY THE ENGINEER, IN WRITING. SUCH SUSPENSION SHALL NOT BE BASIS FOR CLAIM FOR ADDITIONAL COST BUT CAN BE BASIS FOR EXTENSION OF TIME.
7. THE CONTRACTOR SHALL RESEARCH AVAILABLE INFORMATION AND PERFORM ITS OWN INDEPENDENT INVESTIGATIONS AS NEEDED IN AN EFFORT TO FULLY UNDERSTAND ENVIRONMENTAL CONDITIONS ASSOCIATED WITH THE PROJECT SITE. THE CONTRACTOR SHALL UNDERSTAND THE SITE CONDITIONS THAT WILL AFFECT THE COST, SCHEDULE, OR PERFORMANCE OF WORK IN ADVANCE OF STARTING SUCH WORK.
8. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY MIDWESTERN CONSULTING, INC. SURVEY CONDUCTED ON AUGUST 13, 2020.
9. ALL ELEVATIONS SHOWN ARE IN NAVD83 DATUM.
10. CONTRACTOR TO CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO PROJECT TEAM PRIOR TO COMMENCING WORK ACTIVITIES.
11. SEDIMENT SAMPLE LABORATORY DATA IS AVAILABLE UPON REQUEST.
12. FULL TREE INVENTORY IS AVAILABLE UPON REQUEST.
13. BENCHMARK INFORMATION SHOWN ON THIS SHEET.

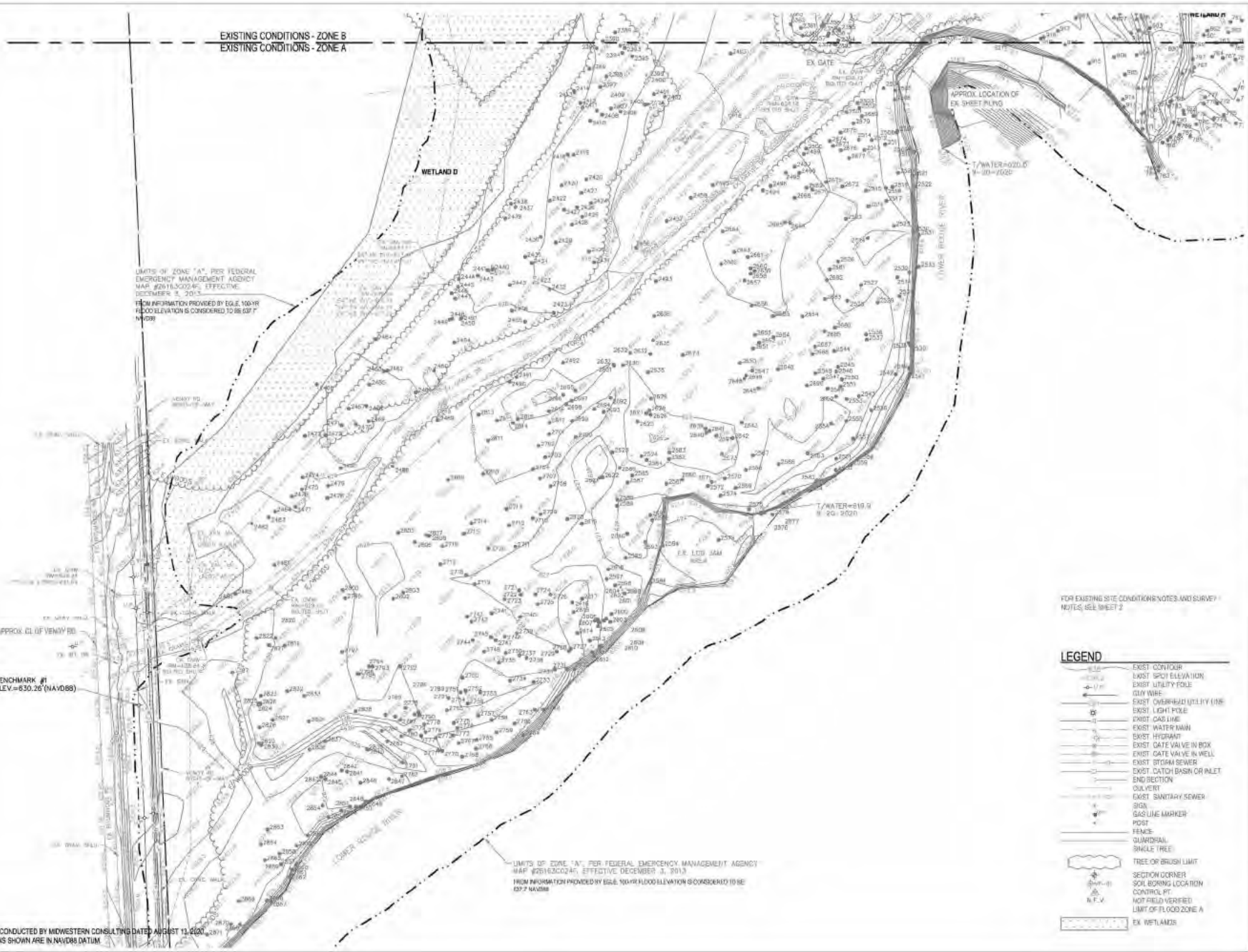
NOTES

THE PROPERTY DEPICTED HEREON LIES WITHIN FLOODPLAIN ZONE "A", PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) COMMUNITY MAP #26183C024F, EFFECTIVE DECEMBER 3, 2013

THE NEWLY CONSTRUCTED WATER LINE DEPICTED RUNNING EAST-WEST THROUGH THE PARK IS NOT FIELD VERIFIED. ALL VISIBLE GATE VALVE AND WELLS HAVE BEEN LOCATED, HOWEVER THE LIDS ARE BOLTED SHUT AND PIPE SIZES AND DIRECTIONS CANNOT BE INDEPENDANTLY VERIFIED.

BENCHMARKS

- BENCHMARK #1** - TOP OF SPIKE IN THE WEST FACE OF A UTILITY POLE, LOCATED ALONG THE EAST SIDE OF VENOY RD, +/-38 FEET EAST OF THE EDGE OF PAVEMENT, +/-60 FEET SOUTH OF PARK ENTRANCE (GRAVEL DR.), +/-20 FEET WEST OF THE FACE OF A CONCRETE WALK. (SHEET 2)
 ELEVATION = 630.26' (NAVD83 DATUM)
- BENCHMARK #2** - TOP OF SPIKE IN THE NORTH FACE OF A 25' BLACK WALNUT TREE (TAG #723), LOCATED +/-110 FEET SOUTHEAST OF A GRAVEL DRIVE, +/-172 FEET SOUTH-WEST OF CONTROL POINT #19. (SHEET 3)
 ELEVATION = 629.44' (NAVD83 DATUM)
- BENCHMARK #3** - TOP OF MAIN STEAMER VALVE OF A HYDRANT LOCATED ALONG THE SOUTH SIDE OF DORSEY ROAD, +/- 5 FEET SOUTH OF THE EDGE OF PAVEMENT, +/- 127 FEET NORTHWEST OF CONTROL POINT #22, +/- 48 FEET EAST OF A UTILITY POLE. (SHEET 4)
 ELEVATION = 644.98' (NAVD83 DATUM)
- BENCHMARK #4** - TOP OF BENCHMARK IN NORTHWEST FACE OF A 24' OAK TREE (TAG #419), LOCATED +/-48 FEET EAST OF CONTROL POINT #21, +/-86 FEET NORTH OF THE NORTHEAST CORNER OF A TENNIS COURT, +/-145 FEET NORTHWEST OF A GRAVEL DRIVE. (SHEET 4)
 ELEVATION = 626.20' (NAVD83)



EXISTING CONDITIONS - ZONE B
EXISTING CONDITIONS - ZONE A

LIMITS OF ZONE "A", PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #26162C024E, EFFECTIVE DECEMBER 3, 2013
FROM INFORMATION PROVIDED BY EGLE 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 637' NAVD83

LIMITS OF ZONE "A", PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #26162C024E, EFFECTIVE DECEMBER 3, 2013
FROM INFORMATION PROVIDED BY EGLE 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 637' NAVD83

BASE SURVEY CONDUCTED BY MIDWESTERN CONSULTING DATED AUGUST 11, 2009
ALL ELEVATIONS SHOWN ARE IN NAVD83 DATUM

FOR EXISTING SITE CONDITIONS, NOTES, AND SURVEY NOTES, SEE SHEET 2

LEGEND

- EXIST. CONTOUR
- EXIST. SPOT ELEVATION
- EXIST. UTILITY POLE
- EXIST. OVERHEAD UTILITY LINE
- EXIST. LIGHT POLE
- EXIST. WATER MAIN
- EXIST. HYDRANT
- EXIST. GATE VALVE IN BOX
- EXIST. GATE VALVE IN WELL
- EXIST. STORM SEWER
- EXIST. CATCH BASIN OR INLET
- END SECTION
- EXIST. SANITARY SEWER
- SIGN
- GAS LINE MARKER
- POST
- FENCE
- GUARDRAIL
- SINGLE TREE
- TREE OR BRUSH LIMIT
- SECTION CORNER
- SOL BORING LOCATION
- CONTROL POINT
- NOT FIELD VERIFIED
- LIMIT OF FLOOD ZONE A
- EX. WETLANDS

ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION

ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD:	11-2021
AGENCY REVIEW:	06-2021
SECURANCE/LOAN PERMIT APP:	10-2021
2011-028	
ECT PROJECT NUMBER:	
DESIGNED BY:	AND CHECKED BY:
DRAWN BY:	AND APPROVED BY:

EXISTING CONDITIONS - ZONE A

SCALE: 1" = 87' @ 21" x 34"

NORTH

SHEET NUMBER **3**

FOR EXISTING SITE CONDITIONS NOTES AND SURVEY NOTES, SEE SHEET J

LEGEND

- EXIST. CONTOUR
- EXIST. SPOT ELEVATION
- EXIST. UTILITY POLE
- GUY WIRE
- EXIST. OVERHEAD UTILITY LINE
- EXIST. LIGHT POLE
- EXIST. GAS LINE
- EXIST. WATER MAIN
- EXIST. FIREWALL
- EXIST. GATE VALVE IN BOX
- EXIST. GATE VALVE IN WELL
- EXIST. STORM SEWER
- EXIST. CATCH BASIN OR INLET
- SHD SECTION
- SHD VERT
- EXIST. SANITARY SEWER
- SEWER
- GAS LINE MARKER
- POST
- FENCE
- SHRUBS
- SINGLE TREE
- TREE OR BRUSH LIMIT
- SECTION CORNER
- SOIL BORING LOCATION
- CONTROL PC
- NOT FIELD VERIFIED
- LIMIT OF FLOOD ZONE A
- EV. WETLANDS

SITE MAY BE PARTICULARLY WET IN SPRING DUE TO OVERFLOW OF WETLAND D CAUSING SHEET FLOW ACROSS SITE TOWARDS ROUGE RIVER

LIMITS OF ZONE "A" PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #2016-0024F, EFFECTIVE DECEMBER 3, 2013 FROM INFORMATION PROVIDED BY EGLE 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 637.7 NAVD88

LIMITS OF ZONE "A" PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #2016-0024F, EFFECTIVE DECEMBER 3, 2013 FROM INFORMATION PROVIDED BY EGLE 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 637.7 NAVD88

BENCHMARK #2
ELEV. = 629.44' (NAVD88)

EXISTING CONDITIONS - ZONE B
EXISTING CONDITIONS - ZONE A

BASE SURVEY CONDUCTED BY MIDWESTERN CONSULTING DATED AUGUST 13, 2020
ALL ELEVATIONS SHOWN ARE IN NAVD88 DATUM

LIMITS OF ZONE "A" PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #2016-0024F, EFFECTIVE DECEMBER 3, 2013 FROM INFORMATION PROVIDED BY EGLE 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 637.7 NAVD88



ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

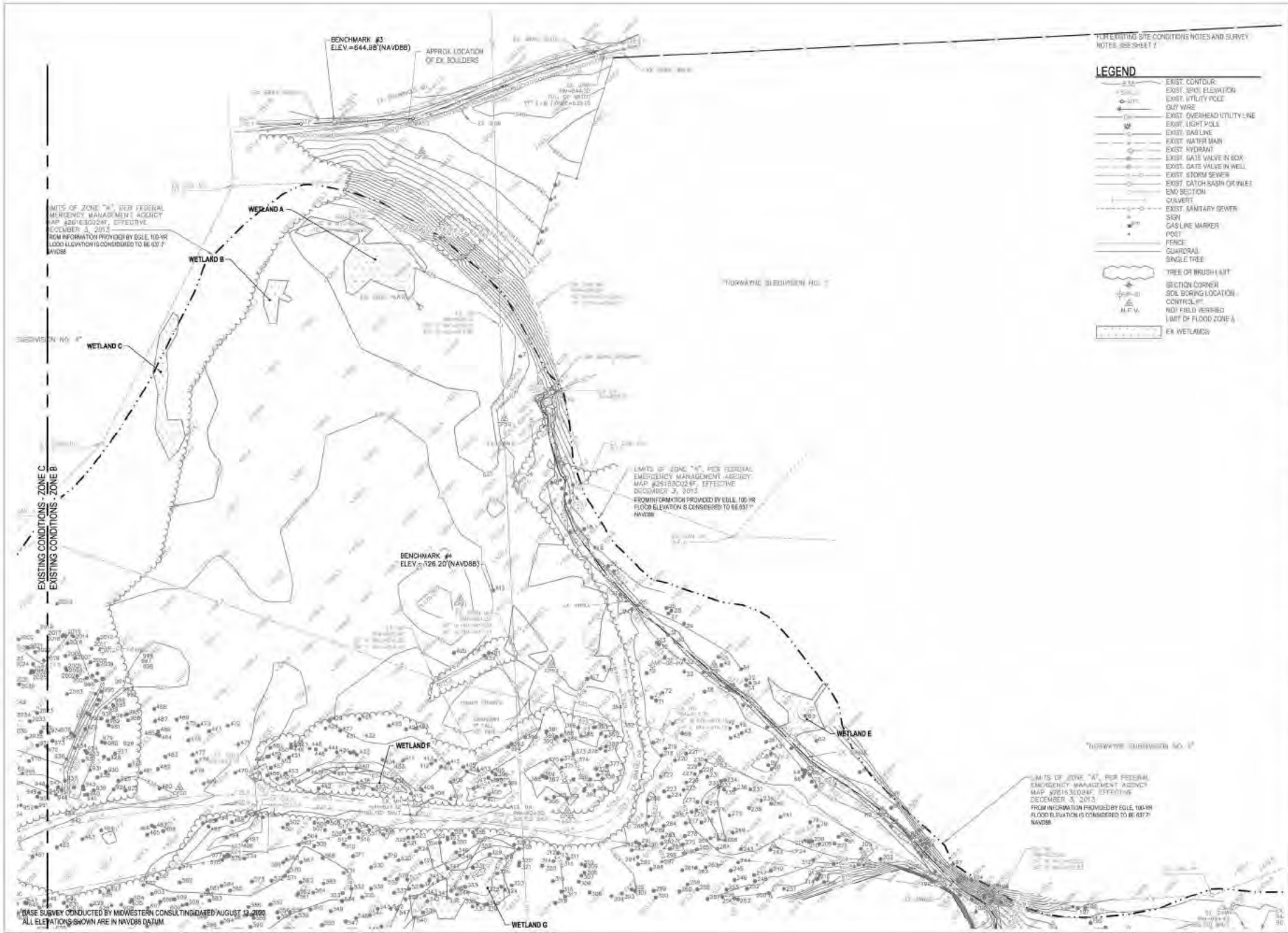
ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD	10-2021
AGENCY REVIEW	10-2021
DISSEMINATION PERMIT APP	10-2021
2011-020	
ECT PROJECT NUMBER	
DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY

SHEET TITLE
EXISTING CONDITIONS - ZONE B

SCALE: 1" = 60' @ 22" x 34"

NORTH SHEET NUMBER
4



FOR EXISTING SITE CONDITIONS NOTES AND SURVEY NOTES, SEE SHEET 7

LEGEND

- EXIST. CONTOUR
- EXIST. SPOT ELEVATION
- EXIST. UTILITY POLE
- OUT WIRE
- EXIST. OVERHEAD UTILITY LINE
- EXIST. LIGHT POLE
- EXIST. SIGNAL LINE
- EXIST. WATER MAIN
- EXIST. HYDRANT
- EXIST. GATE VALVE IN BOX
- EXIST. GATE VALVE IN WELL
- EXIST. STORM SEWER
- EXIST. CATCH BASIN OR INLET
- EMO SECTION
- CONVERT
- EXIST. SANITARY SEWER
- POST
- GAS LINE MARKER
- FENCE
- GUARDRAIL
- SINGLE TREE
- TREE OR BRUSH CLUMP
- SECTION CORNER
- SOIL BORING LOCATION
- CONTROL
- NOV FIELD TERRACE
- LIMIT OF FLOOD ZONE A
- EXIST. WETLANDS

LIMITS OF ZONE "A", PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #251830024P, EFFECTIVE DECEMBER 3, 2013. FROM INFORMATION PROVIDED BY ELLI, 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 837.7 NAVD83.

LIMITS OF ZONE "A", PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #251830024P, EFFECTIVE DECEMBER 3, 2013. FROM INFORMATION PROVIDED BY ELLI, 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 837.7 NAVD83.

LIMITS OF ZONE "A", PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP #251830024P, EFFECTIVE DECEMBER 3, 2013. FROM INFORMATION PROVIDED BY ELLI, 100-YR FLOOD ELEVATION IS CONSIDERED TO BE 837.7 NAVD83.

BASE SURVEY CONDUCTED BY MIDWESTERN CONSULTING DATED AUGUST 14, 2010. ALL ELEVATIONS SHOWN ARE IN NAVD83 DATUM.

ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION



ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD: 11-2011
AGENCY REVIEW: 06-2011
DISSEMINATION PERMIT APP: 10-2011

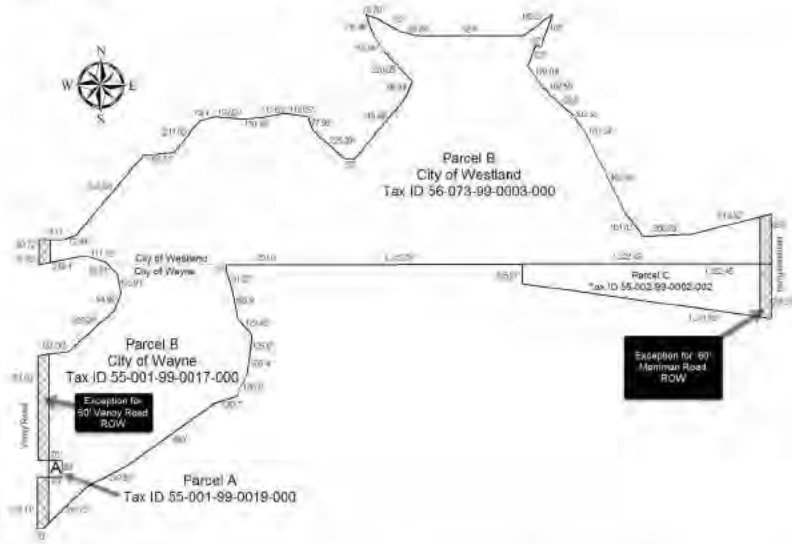
2011-028
ECT PROJECT NUMBER
AAS DESIGNED BY AAS CHECKED BY
SDO DRAWN BY JMO APPROVED BY

SHEET TITLE
EXISTING CONDITIONS - ZONE C

SCALE: 1" = 87' @ 22" x 34"

NORTH SHEET NUMBER
5

PARCEL GRAPHIC



PARCEL DESCRIPTION

PARCEL A
ALL THAT PART OF THE SOUTHWEST 1/4 OF SECTION 27, TOWNSHIP 2 SOUTH, RANGE 3 EAST, CITY OF WAYNE, WAYNE COUNTY, MICHIGAN THE FOLLOWING PARCEL OF LAND DESCRIBED AS:

COMMENCING AT A POINT IN THE NORTH AND SOUTH 1/4 LINE OF SECTION 27, WHICH LINE IS ALSO THE CENTER LINE OF VENOY ROAD, WHICH POINT IS DISTANT SOUTH 00 DEG 28 MIN 15 SEC, WEST 1012.34 FEET FROM THE CENTER OF SAID SECTION 27; THENCE SOUTH 89 DEG 34 MIN 40 SEC, EAST 60.0 FEET TO THE POINT OF BEGINNING; THENCE SOUTHWEST 86 DEG 48 MIN 48 SEC, EAST 10.00 FEET; THENCE SOUTH 00 DEG 25 MIN 15 SEC, WEST 39 FEET; THENCE NORTH 30 DEG 34 MIN 45 SEC, WEST 70 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC, EAST 60 FEET TO THE POINT OF BEGINNING. THE ABOVE DESCRIBED CONTAINS 0.229 AC. (77.3 1/4) ACRES OF LAND, MORE OR LESS.

PARCEL B
PART OF NORTH 1/2 OF SECTION 27 DESCRIBED AS:

BEGINNING AT THE EAST QUARTER CORNER OF SAID SECTION 27; THENCE NORTH 80 DEG 58 MIN 25 SEC, WEST 122.41 FEET; AND SOUTH 89 DEG 41 MIN 02 SEC, WEST 159.81 FEET; AND NORTH 89 DEG 22 MIN 12 SEC, WEST 251.80 FEET ALONG THE EAST AND WEST QUARTER LINE OF SAID SECTION 27; THENCE SOUTH 00 DEG 28 MIN 36 SEC, WEST 23.0 FEET; THENCE SOUTH 11 DEG 51 MIN 38 SEC, EAST 11.37 FEET; THENCE SOUTH 11 DEG 13 MIN 34 SEC, EAST 15.04 FEET; THENCE SOUTH 4 DEG 22 MIN 13 SEC, EAST 100.42 FEET; THENCE SOUTH 06 DEG 48 MIN 37 SEC, WEST 156.80 FEET; THENCE SOUTH 9 DEG 16 MIN 03 SEC, WEST 155.40 FEET; THENCE SOUTH 25 DEG 45 MIN 12 SEC, WEST 16.47 FEET; THENCE SOUTH 71 DEG 30 MIN 21 SEC, WEST 130.74 FEET; THENCE SOUTH 54 DEG 12 MIN 36 SEC, WEST 380.1 FEET; THENCE SOUTH 52 DEG 31 MIN 36 SEC, WEST 242.52 FEET; THENCE SOUTH 44 DEG 20 MIN 21 SEC, WEST 319.72 FEET; THENCE NORTH 86 DEG 38 MIN 34 SEC, WEST 230.4 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC, EAST 270.14 FEET ALONG THE WEST LINE OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SAID SECTION 27; THENCE SOUTH 89 DEG 34 MIN 40 SEC, EAST 150.00 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC,

EAST 80.00 FEET; THENCE NORTH 89 DEG 34 MIN 40 SEC, WEST 150.00 FEET; THENCE NORTH 30 DEG 25 MIN 15 SEC, EAST 60.00 FEET ALONG THE WEST LINE OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SAID SECTION 27; THENCE NORTH 61 DEG 55 MIN 22 SEC, EAST 161.08 FEET; THENCE NORTH 48 DEG 19 MIN 21 SEC, EAST 205.28 FEET; THENCE NORTH 30 DEG 20 MIN 38 SEC, EAST 94.28 FEET; THENCE NORTH 31 DEG 45 MIN 48 SEC, WEST 165.11 FEET; THENCE NORTH 48 DEG 27 MIN 50 SEC, WEST 89.81 FEET; THENCE NORTH 32 DEG 02 MIN 54 SEC, WEST 111.22 FEET; THENCE SOUTH 79 DEG 18 MIN 43 SEC, WEST 494.40 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC, EAST 60.00 FEET ALONG THE WEST LINE OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SAID SECTION 27; THENCE NORTH 00 DEG 23 MIN 00 SEC, EAST 36.72 FEET ALONG THE WEST LINE OF THE EAST HALF OF THE NORTHWEST QUARTER OF SAID SECTION 27; THENCE SOUTH 89 DEG 34 MIN 40 SEC, EAST 150.00 FEET; THENCE NORTH 48 DEG 19 MIN 21 SEC, EAST 124.81 FEET; THENCE NORTH 36 DEG 55 MIN 12 SEC, EAST 547.04 FEET; THENCE NORTH 42 DEG 21 MIN 57 SEC, EAST 166.51 FEET; THENCE NORTH 39 DEG 27 MIN 50 SEC, EAST 211.25 FEET; THENCE NORTH 15 DEG 49 MIN 45 SEC, EAST 104.00 FEET; THENCE NORTH 15 DEG 45 MIN 04 SEC, EAST 150.58 FEET; THENCE NORTH 44 DEG 48 MIN 21 SEC, EAST 104.40 FEET; THENCE NORTH 19 DEG 49 MIN 34 SEC, EAST 116.51 FEET; THENCE SOUTH 42 DEG 44 MIN 11 SEC, EAST 14.66 FEET; THENCE SOUTH 18 DEG 51 MIN 48 SEC, EAST 77.80 FEET; THENCE SOUTH 4 DEG 22 MIN 13 SEC, EAST 225.59 FEET; THENCE EAST 59.60 FEET; THENCE NORTH 44 DEG 21 MIN 37 SEC, EAST 175.60 FEET; THENCE NORTH 21 DEG 38 MIN 32 SEC, EAST 175.60 FEET; THENCE NORTH 42 DEG 48 MIN 21 SEC, WEST 220.55 FEET; THENCE NORTH 32 DEG 38 MIN 02 SEC, WEST 122.36 FEET; THENCE NORTH 20 DEG 38 MIN 46 SEC, WEST 176.40 FEET; THENCE SOUTH 06 DEG 09 MIN 16 SEC, EAST 320.70 FEET; THENCE SOUTH 42 DEG 48 MIN 21 SEC, EAST 122.36 FEET; THENCE SOUTH 71 DEG 30 MIN 21 SEC, WEST 130.74 FEET; THENCE SOUTH 54 DEG 12 MIN 36 SEC, WEST 380.1 FEET; THENCE SOUTH 52 DEG 31 MIN 36 SEC, WEST 242.52 FEET; THENCE SOUTH 44 DEG 20 MIN 21 SEC, WEST 319.72 FEET; THENCE NORTH 86 DEG 38 MIN 34 SEC, WEST 230.4 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC, EAST 270.14 FEET ALONG THE WEST LINE OF THE EAST HALF OF THE SOUTHWEST QUARTER OF SAID SECTION 27; THENCE SOUTH 89 DEG 34 MIN 40 SEC, EAST 150.00 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC,

PARCEL C
THAT PART OF THE SOUTHEAST 1/4 OF SECTION 27, TOWN 2 SOUTH, RANGE 3 EAST, CITY OF WAYNE, WAYNE COUNTY, MICHIGAN, DESCRIBED AS:

BEGINNING AT THE EAST 1/4 CORNER OF SAID SECTION 27 AND PROCEEDING THENCE SOUTH 67 DEG 09 MIN 31 SEC, WEST 132.28 FEET ALONG THE EAST AND WEST 1/4 LINE TO THE NORTHEAST CORNER OF VENOY ROAD, SECTION 10 & 12 AND 10, PARK 74; THENCE SOUTH 01 DEG 50 MIN 39 SEC, EAST 104.87 FEET ALONG THE EAST LINE OF SAID SUBDIVISION; THENCE SOUTH 34 DEG 22 MIN 38 SEC, EAST 131.53 FEET TO THE EAST LINE OF SECTION 27; THENCE NORTH 00 DEG 20 MIN 24 SEC, WEST 282.2 FEET TO THE POINT OF BEGINNING EXCLUDING THE EAST 80 FEET THEREOF AND SUBJECT TO THE RIGHTS OF THE PUBLIC IN THE EXISTING 80'-4" OF WAY OF MERRIMAN ROAD.

THAT PORTION OF THE ABOVE DESCRIBED PROPERTY, NOT SUBJECT TO THE RIGHTS OF THE PUBLIC, CONTAINS AN AREA OF 1.7-1.78 ACRES, MORE OR LESS.

THENCE SOUTH 89 DEG 34 MIN 40 SEC, EAST 150.00 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC, EAST 60.00 FEET; THENCE SOUTH 89 DEG 34 MIN 40 SEC, EAST 150.00 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC,

QUIT CLAIM DEED INFORMATION

Barbara J. Tompkins
Wayne County Register of Deeds
201708120
501001172 41 of 41 (Page 1 of 1)
-17 MAY-19 10:12:47

QUIT CLAIM DEED

THE COUNTY OF WAYNE, MICHIGAN BOARD OF COUNTY ROAD COMMISSIONERS, in its official capacity as the duly constituted governing body corporate with its duties, rights and obligations assumed by the County of Wayne, pursuant to County Charter Sections 8.1(2), 4.31 and 4.5(2) and with offices at 400 Monroe, Detroit, Michigan 48226, hereby does hereby certify that it is "Owner" QUIT CLAIMING to the COUNTY OF WAYNE, MICHIGAN, interest after related to an "Owner" with office at 400 Crowwood, Detroit, Michigan 48226 (related property described as:

ALL THAT PART OF THE SOUTHWEST 1/4 OF SECTION 27, TOWNSHIP 2 SOUTH, RANGE 3 EAST, CITY OF WAYNE, WAYNE COUNTY, MICHIGAN THE FOLLOWING PARCEL OF LAND DESCRIBED AS:

COMMENCING AT A POINT IN THE NORTH AND SOUTH 1/4 LINE OF SECTION 27, WHICH LINE IS ALSO THE CENTER LINE OF VENOY ROAD, WHICH POINT IS DISTANT SOUTH 1012.34 FEET FROM THE CENTER OF SAID SECTION 27; THENCE SOUTH 89 DEG 34 MIN 40 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 89 DEG 34 MIN 40 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00 DEG 28 MIN 15 SEC, WEST 39 FEET; THENCE NORTH 30 DEG 34 MIN 45 SEC, WEST 70 FEET; THENCE NORTH 00 DEG 28 MIN 15 SEC, EAST 60 FEET TO THE POINT OF BEGINNING. THE ABOVE DESCRIBED CONTAINS 0.229 AC. (77.3 1/4) ACRES OF LAND, MORE OR LESS. TAX ID 55-001-99-0019-000.

together with all improvements located thereon and therein, if any, and all appurtenant easements, servitudes, and appurtenances (hereinafter including in this quit claim deed) and for the full consideration of \$100 (\$100.00 Dollars) Dollars from Paul Zask, Treasurer (the present is MCL 207.505 (4), MCL 207.506, MCL 207.509(3), and MCL 207.524(3)).

Grantor grants in Grantee the right to purchase all available air under section 118 of the Michigan Land Transfer Act, being Act No. 289 of Public Acts of 1967.

This Property may be located within the vicinity of (limited or farm operation, generally accepted agricultural and management practices which may generally apply, state, federal, and other statutory conditions may be filed and be governed by the Michigan Right-to-Farm Act.

SIGNATURES CONTINUED ON NEXT PAGE

(QUIT CLAIM DEED)
GRANTOR: COUNTY OF WAYNE (MICHIGAN) BOARD OF COUNTY ROAD COMMISSIONERS
GRANTEE: COUNTY OF WAYNE, MICHIGAN
Dated this 8th day of May, 2017

CHARTER COUNTY OF WAYNE, MICHIGAN
By: *[Signature]*
Print Name: *[Signature]*
Title: Deputy Clerk

FILED IN MICHIGAN 1
COUNTY OF WAYNE 1

Subscribed and sworn to before me this 8th day of May, 2017
Notary Public, Wayne County, Michigan
Commission Expires: *[Signature]*
Acting in Wayne County, Michigan

Phone Note: (1) The name of each person to be signed this document shall be legibly printed (typed or stamped) upon this instrument immediately beneath the signature of each person. (2) If the required act is performed outside the State of Michigan, the acknowledgment must show not only the date and actual location, if any, of the person making the acknowledgment, but also the actual date of the person performing the act outside the State of Michigan shall be attached to this deed.

Tax ID No. 55-001-99-0019-000
Instruments drafted on January 24, 2017 by and without opinion of IDE: Paul A. Zask, Wayne County Department of Public Services - Engineering/Records, 400 Monroe Street, Suite 300, Detroit, Michigan 48226.

When recorded, return to and send real estate taxes to: Elizabeth Keller, Wayne County Department of Public Services, Parks Division, 33175 Ard Arizer Trail, Westland, MI 48185.

ECT Environmental Consulting & Technology, Inc.
CITY OF WAYNE
RESTORATION
Alliance of Rouge Communities
Wayne County parks

ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION
VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD: 15-001
AGENCY REVIEW: 16-001
EASEMENTS/JOINT PERMIT: APP: 16-001
2017-10-26
OFF PROJECT MANAGER: *[Signature]*
AS DESIGNED BY: *[Signature]* CHECKED BY: *[Signature]*
DESIGNED BY: *[Signature]* APPROVED BY: *[Signature]*

SHEET FILE
EXISTING CONDITIONS - NOTES

SCALE: "AS-IS"
SOUTH SHEET NUMBER 6



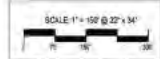
ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR REVIEW:	14-001
AGENCY REVIEW:	06-001
ISSUANCE/DATE PERMIT APPL.:	02-001
2011/000	
ECT PROJECT NUMBER:	
DESIGNED BY:	CHKD BY:
SD DOWN BY:	APP'D BY:

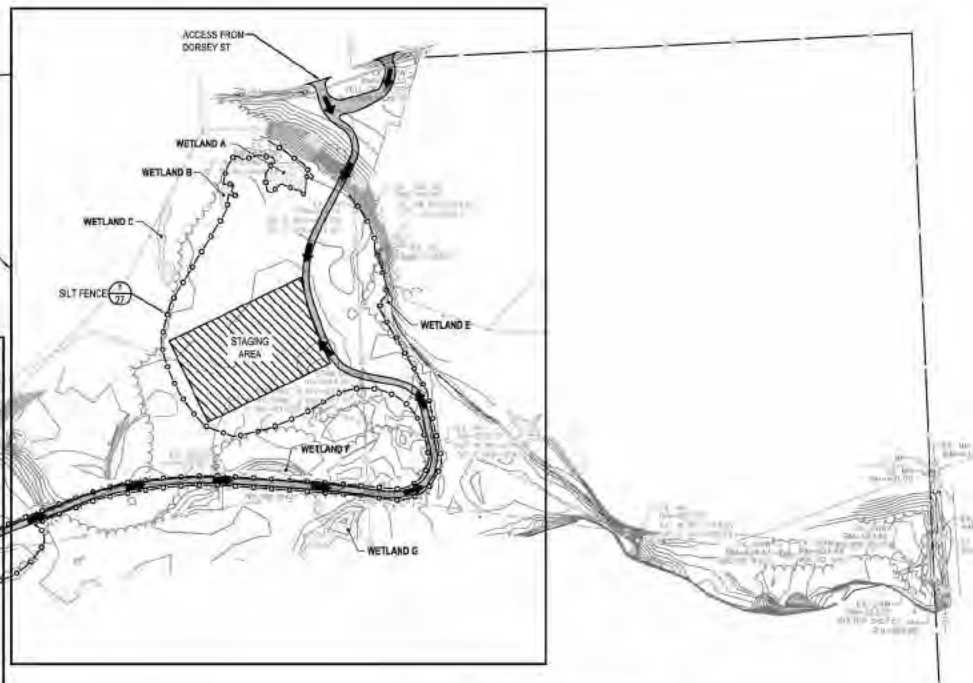
SHEET TITLE
SITE PREPARATION PLAN



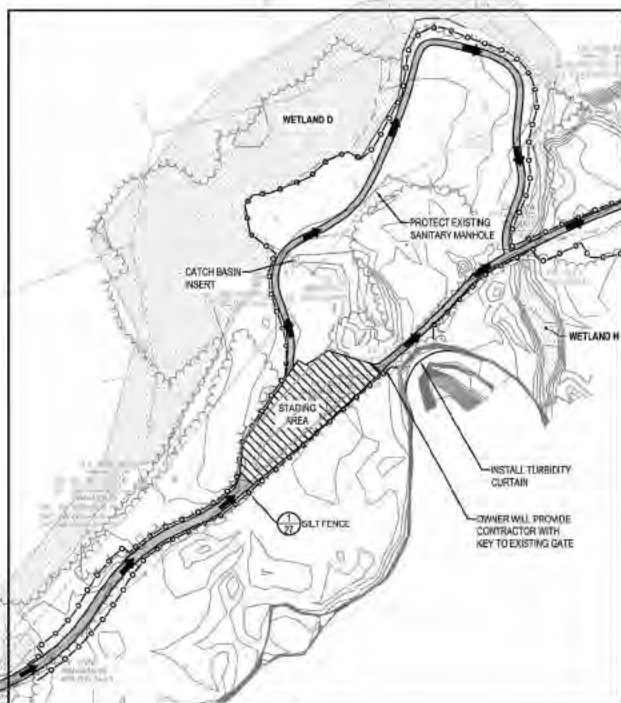
LEGEND

- EXIST. CATCH BASIN
- EXIST. UTILITY POLE
- EXIST. WIRE
- EXIST. OVERHEAD UTILITY LINE
- EXIST. WATER MAIN
- EXIST. CATCH BASIN OR INLET
- QUICKEST
- WISH
- SINGLE TREE
- TREE OR BRUSH LIMIT
- EX. WETLAND
- PROPOSED STAGING AREA
- PROPOSED ACCESS PATH
- PROPOSED SLT FENCING

DEMOLITION PLAN - EAST 1/9



SEE SHEETS 8 AND 9 FOR PROPOSED TREE REMOVALS
FOR NOTES ON STAGING ACCESS, SOIL EROSION CONTROL, TRAFFIC CONTROL, CONSTRUCTION SEQUENCING, AND OTHER MISCELLANEOUS NOTES, SEE SHEET 8



DEMOLITION PLAN - WEST 1/8

TEMPORARY CONSTRUCTION SIGN

WHITE BACKGROUND

BLACK LETTERING

Rouge River AOC Venoy-Dorsey Park Habitat Restoration Project

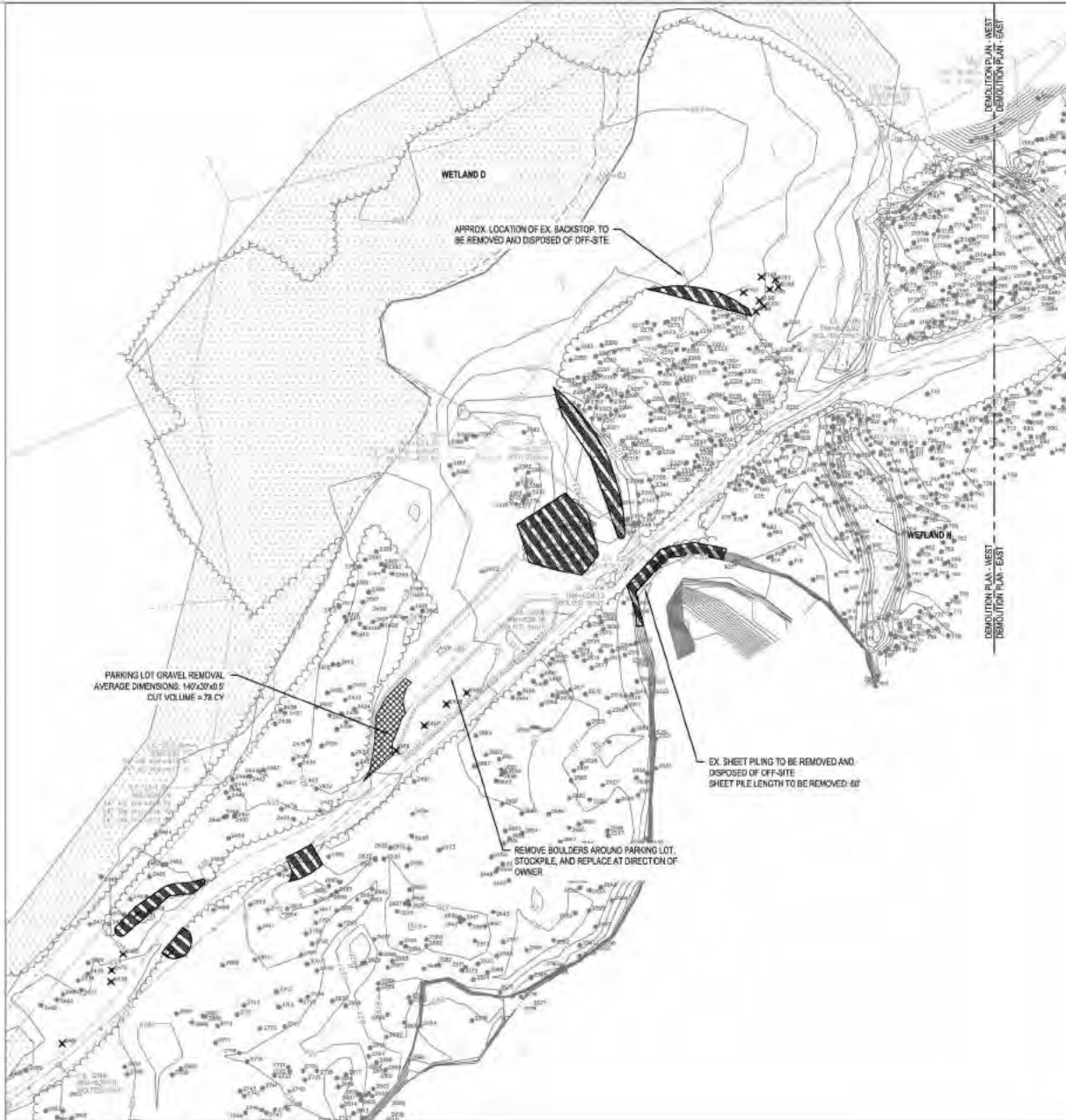
Alliance of Rouge Communities

This project is funded by the U.S. Environmental Protection Agency Great Lakes National Program Office through a grant awarded to the Alliance of Rouge Communities. A portion of a \$1,834,000.00 Great Lakes Restoration Initiative Grant (Grant No. 00E02830) funded project design and implementation.

Engineer: **ECT** Environmental Consulting & Technology, Inc. Contractor: (Insert Logo Here)

SIGN DIMENSIONS: 1200 mm x 2400 mm x 19 mm (approx. 4' x 8' x ¾")
PLYWOOD PANEL (APA RATED A-B GRADE-EXTERIOR)

SIGN LOCATION TO BE DETERMINED IN FIELD WITH OWNER PRIOR TO CONSTRUCTION



PROPOSED TREE REMOVALS

TAG#	DBH	COMMON NAME	GENUS/ SPECIES	STEMS	SCORE	LM	INV	BAT HABITAT
1	8	Box Elder	Acer negundo	tw				Unknown
2	15	White Mulberry	Morus alba	tw	50%		X	Unknown
421	8	White Mulberry	Morus alba	tw			X	Unknown
422	8	White Mulberry	Morus alba				X	
592	20	Cottonwood	Populus deltoides					
2182	20	Northern Hackberry	Celtis occidentalis			X		
2184	26	Northern Hackberry	Celtis occidentalis					
2195	13	Northern Hackberry	Celtis occidentalis					
2196	19	Northern Hackberry	Celtis occidentalis			X		
2197	16	Black Cherry	Prunus serotina					X
2204	17	Northern Hackberry	Celtis occidentalis					
2199	15	Northern Hackberry	Celtis occidentalis					
2200	16	Northern Hackberry	Celtis occidentalis					
2456	18	White Mulberry	Morus alba				X	
2457	8	Hawthorn	Crataegus	tw				
2458	20	Black Walnut	Juglans nigra	tw		X		
2459	9	Hawthorn	Crataegus	tw	40%			
2469	8	Box Elder	Acer negundo					
2470	11	Northern Hackberry	Celtis occidentalis					
2478	9	Hawthorn	Crataegus					
2479	8	Hawthorn	Crataegus	tw				
2480	13	Hawthorn	Crataegus	tw	60%			
2481	10	Hawthorn	Crataegus	tw				
2489	6	Black Walnut	Juglans nigra					
Tree Removals <12"		10						
Tree Removals 12+"		14						
Bat Habitat Trees		1-3						

FOR NOTES ON STAGING/ACCESS, SOIL EROSION CONTROL, TRAFFIC CONTROL, CONSTRUCTION SEQUENCING, AND OTHER MISCELLANEOUS NOTES, SEE SHEET 8.

1 DEMOLITION PLAN - WEST
SCALE: 1"=40'

ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION

Wetland Protection

Alliance of Rouge Communities **GOES TO PROTECT**

Wayne County **parks**

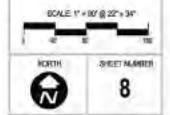
ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

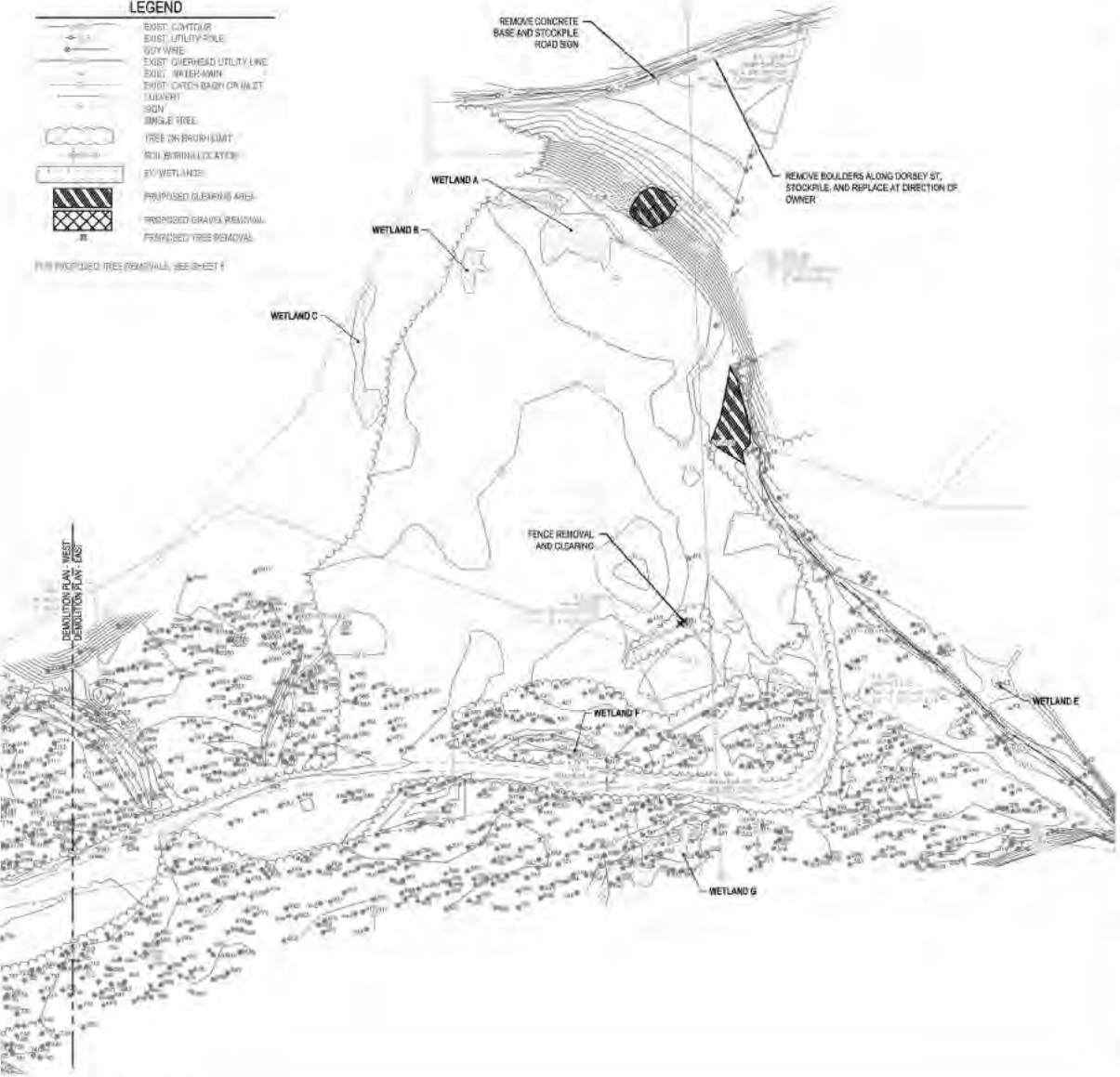
ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR REVIEW	11-2021
AGENCY REVIEW	09-2021
CLEARANCE/LOST PERMIT APP.	10-2021
2011-0208	
ECT PROJECT NUMBER	
DESIGNED BY	AND CHECKED BY
DRAWN BY	AND APPROVED BY

SHEET TITLE
DEMOLITION PLAN - WEST



- LEGEND**
- EXIST. CONTROL
 - EXIST. UTILITY/SOLE
 - QUIRY WIRE
 - EXIST. OVERHEAD UTILITY LINE
 - EXIST. WATER MAIN
 - EXIST. CATCH BASIN OR INLET
 - TOUGHER
 - SDN
 - SINGLE TREE
 - (TREE OR BROWN LIMIT)
 - (R3) BIRNALL CATION
 - WETLANDS
 - PROPOSED CLEARING AREA
 - PROPOSED GRAVEL PAD/PAVILION
 - PROPOSED TREE REMOVAL



DEMOLITION PLAN - EAST
SCALE: 1" = 10'

STAGING ACCESS NOTES:

1. EQUIPMENT ACCESS AND STAGING AND MATERIALS STORAGE CAN OCCUR WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE TO DESIGNATED STAGING AREAS. NO ADDITIONAL VEGETATION CLEARING FOR ACCESS OR STAGING IS PERMITTED WITHOUT APPROVAL OF THE ENGINEER AND OWNER.
2. NO MATERIAL STORAGE OR EQUIPMENT STAGING IS PERMITTED ON ANY PORTION OF VENOY RD OR DORSEY ST INCLUDING AREAS CLOSED TO TRAFFIC.
3. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OVER EXISTING ASPHALT TO PREVENT PHYSICAL DAMAGE OR CHEMICAL DAMAGE FROM LEAKING PETROLEUM PRODUCTS. REPAIR OF DAMAGED ROAD SHALL BE AT CONTRACTOR'S EXPENSE UNLESS SPECIFICALLY ACCOUNTED FOR UNDER CONTRACT DVS SITE RESTORATION LINE ITEM.

SOIL EROSION CONTROL NOTES:

4. ACCORDANCE WITH RULE 1709 PROMULGATED UNDER THE AUTHORITY OF PART 11, SOIL EROSION AND SEDIMENT CONTROL, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, AND IN ADDITION TO THE INFORMATION IN THE PROJECT PLANS AND SPECIFICATIONS, THE FOLLOWING GENERAL CONDITIONS APPLY TO THE EARTH CHANGE AUTHORIZED BY THIS DOCUMENT.
 1. CONSTRUCT AND COMPLETE EARTH CHANGES IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PERMIT AND 24 HOUR MANNER THAT LIMITS THE EXPOSED AREA OF DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.
 2. TEMPORARY OR PERMANENT CONTROL MEASURES SHALL BE INSTALLED TO CONVEY WATER AROUND, THROUGH OR FROM THE EARTH CHANGE AT A NON-EROSIVE VELOCITY.
 3. REMOVE SEDIMENT CAUSED BY ACCELERATED SOIL EROSION FROM RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH CHANGE.
 4. INSTALL TEMPORARY SOIL EROSION AND SEDIMENTATION MEASURES BEFORE OR UPON COMMENCEMENT OF THE EARTH CHANGE ACTIVITY AND MAINTAIN THE MEASURES ON A DAILY BASIS. REMOVE TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. STABILIZED MEANS THE ESTABLISHMENT OF VEGETATION OR THE PROPER PLACEMENT GRADINGS OR COVERING OF SOIL TO ENSURE ITS RESISTANCE TO SOIL EROSION (SLIDING, OR OTHER EARTH MOVEMENT).
 5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SITE DRAINAGE.
 6. CONTRACTOR IS RESPONSIBLE TO PROTECT ADJACENT WATER COURSES FROM THE DISCHARGE OF SEDIMENT DURING CONSTRUCTION.
 7. INSTALL PERMANENT EROSION CONTROL MEASURES WITHIN 5 DAYS OF COMPLETING FINAL GRADING OR MAINTAIN TEMPORARY MEASURES UNTIL PERMANENT MEASURES ARE INSTALLED.
 8. SILT FENCE TO BE INSTALLED AROUND ALL STOCKPILE AREAS.
 9. APPLY TEMPORARY EROSION CONTROL ON EXPOSED SOILS DURING WET WEATHER AND WHEN SITE IS INACTIVE FOR MORE THAN 24 HOURS.
 10. DO NOT CONSTRUCT DURING HIGH FLOW OR WET WEATHER.
 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING LANDSCAPING DURING THE WARRANTY PERIOD.
 12. PROTECT ALL DRAIN INLETS WITH SEDIMENT FILTERS.
 13. EXISTING LOW AREAS TO BE USED FOR STORMWATER DETENTION AND SETTLING DURING CONSTRUCTION.
 14. INSTALL TEMPORARY INLET FILTERS AT ALL ADJACENT AND DOWN-DRAINING STORM WATER INLETS, CATCH BASINS AND MANHOLES THAT MAY BE IMPACTED. CATCH BASIN INLET FILTERS SHALL BE MAINTAINED CLEAN AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. IF A FILTER HAS HOLES OR IS INUNDATED WITH SEDIMENT, THE FILTER WILL REQUIRE REPLACEMENT.
 15. INSTALL AN ANTI-TRACKING PAD AT THE SITE ENTRY AND EXIT(S). THE ANTI-TRACKING PAD SHOULD BE CONSTRUCTED OF GEOTEXTILE FABRIC WITH LIMESTONE OVER IT.
 16. SILT FENCE AND/OR TURBIDITY BARRIER SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. IF REPAIR OR REPLACEMENT IS NECESSARY, IT SHALL BE PERFORMED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. MAINTENANCE INCLUDES THE REMOVAL OF BUILD UP SEDIMENT. CONTRACTOR SHALL REMOVE, REPLACE IF IT FAILS. ADDITIONALLY, THE CONTRACTOR SHALL REINSTALL ANY PORTION OF THE FENCING BARRIER DAMAGED BY CONSTRUCTION MACHINERY.
 17. PLACE STOCKPILES AND OTHER SPILL PILES AWAY FROM THE DRAINAGE SYSTEM TO MINIMIZE SEDIMENT TRANSPORT. IF THE STOCKPILE AND/OR SPILL PILE MUST REMAIN ON SITE OVERNIGHT, OR IF THE WEATHER CONDITIONS INDICATE THE CHANCE FOR PRECIPITATION, IT COVER THE PILE WITH WATER RESISTANT BULK MATERIAL TO PREVENT EROSION AND/OR (1) INSTALL SILT FENCING AROUND THE BASE OF THE PILE TO PREVENT TRANSPORT OF SEDIMENT TO THE STORM WATER SYSTEM, OR APPLY OTHER CONTROL METHODS APPROPRIATE TO THE SITE. CONTROL MEASURES TO GUARD AGAINST WIND EROSION MUST ALSO BE EMPLOYED, SUCH AS WETTING OR COVERING THE STOCKPILES. KEEP AS FEW STOCKPILES AS POSSIBLE DURING THE COURSE OF THE PROJECT.
 18. THROUGHOUT THE CONSTRUCTION PERIOD, ALL WASTE TRACKERS ONTO EXISTING ROADS FROM THE SITE DUE TO CONSTRUCTION SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.
 19. SEEDING OR OTHER STABILIZATION SHALL BE REQUIRED IMMEDIATELY TO AREAS WHICH HAVE BEEN DAMAGED BY RUNOFF.
 20. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL ON THE SITE THROUGHOUT THE DURATION OF THE CONSTRUCTION PROCESS.

TRAFFIC CONTROL NOTES:

1. CONTRACTOR TO INSTALL DIRECTIONAL SIGNAGE AND DO NOT ENTER SIGNAGE TO ROUTE PUBLIC AND PROTECT WORK ZONE. CONTRACTOR WILL NOTIFY PUBLIC OF CLOSURES OR RESTRICTIONS.
2. OWNER WILL PROVIDE CONTRACTOR KEY TO EXISTING GATE. CONTRACTOR MAY INSTALL ADDITIONAL GATE AT FRONT OF PARK AS NECESSARY TO PROTECT EQUIPMENT AND MATERIALS. TO BE REMOVED AT COMPLETION OF PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EQUIPMENT AND MATERIALS.

CONSTRUCTION SEQUENCING NOTES:

1. DUE TO PERMANENT AND TEMPORARY, NO IN-STREAM WORK SHALL OCCUR BETWEEN MARCH 15 AND JUNE 15.
2. STREAM BANK MUST BE ISOLATED FROM STREAM FLOW ALONG A OVERPORTION OF STREAM BEFORE ANY IN-STREAM WORK BEGINS.
3. TURBIDITY CURTAIN IS REQUIRED TO BE INSTALLED.

CLEARING AND GRUBBING NOTES:

1. REVIEW CLEARING LIMITS AND TREE REMOVALS WITH PROJECT ENGINEER PRIOR TO BEGINNING WORK.
2. AREAS MARKED FOR CLEARING REPRESENT AREAS TO BE CLEARED OF TREES LESS THAN 6" DBH, Felled TREES, SHRUBS, VEGETATION, STUMPS, LOGS, BRUSH, ROOTS, UNDERGROWTH, TRASH, AND OTHER DISCARDED MATERIALS. TREES WITH DBH GREATER THAN 6" TO REMAIN UNLESS CALLED OUT FOR REMOVAL ON DEMOLITION SHEETS.
3. ALL SILT FENCE AND PROTECTIVE FENCE SHALL BE INSTALLED PRIOR TO CLEARING OPERATIONS. ALL FENCING SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT. FENCING SHALL BE REMOVED ONLY UPON APPROVAL BY ENGINEER.
4. ALL PLANT MATERIAL NOT MARKED FOR REMOVAL SHALL BE DISTURBED AS LITTLE AS POSSIBLE DURING THE CLEARING AND CONSTRUCTION OPERATIONS. NO EXCAVATION SHALL BE DONE WITHIN THE BUFFER LINE (LIMIT OF OVERHANGING BRANCHES) OF TREES TO BE SAVED, UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. THE LOWER BRANCHES OF ALL TREES TO REMAIN SHALL NOT BE REMOVED, OR DAMAGED BY CONSTRUCTION EQUIPMENT. AVOID COMPACTION OF ROOTS.
5. HYDRO AND/OR SIMILAR CLEARING EQUIPMENT SHALL NOT BE PERMITTED ON SITE.

MISCELLANEOUS NOTES:

1. CONSTRUCTION MUST BE UNDERWAY AND COMPLETED DURING THE DRY PERIOD OF THE WETLANDS. IF THE AREAS DO NOT DRY OUT, THE CONSTRUCTION SHALL BE DONE ON EQUIPMENT MATS TO PREVENT COMPACTION OF THE SOIL.
2. DURING REMOVAL OR REPAIR OF EXISTING STRUCTURES, EVERY PRECAUTION SHALL BE TAKEN TO PREVENT DEBRIS FROM ENTERING ANY WATERCOURSE. ANY DEBRIS REACHING THE WATERCOURSE DURING THE REMOVAL AND/OR RECONSTRUCTION OF THE STRUCTURE SHALL BE IMMEDIATELY RETRIEVED FROM THE WATER. ALL MATERIAL SHALL BE DEPOSITED IN AN ACCEPTABLE MANNER CONSISTENT WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
3. NO WORK SHALL BE DONE IN THE STREAM DURING PERIODS OF ABOVE-NORMAL FLOWS EXCEPT AS NECESSARY TO PREVENT EROSION.
4. IF THE PROJECT, OR ANY PORTION OF THE PROJECT, IS STOPPED AND LEFT INCOMPLETE FOR ANY LENGTH OF TIME (OTHER THAN THAT ENDORSED BY A NORMAL WORKSCHEDULE) PROTECTIVE PROVISION SHALL BE TAKEN TO PROTECT THE INCOMPLETE WORK FROM EROSION, INCLUDING THE PLACEMENT OF TEMPORARY GRAVEL BAG RIPRAP, TEMPORARY SEED AND MULCH, OR OTHER ACCEPTABLE TEMPORARY PROTECTION.
5. PRIOR TO THE INITIATION OF ANY PERMITTED CONSTRUCTION ACTIVITIES, A SEDIMENTATION BARRIER SHALL BE CONSTRUCTED IMMEDIATELY DOWN GRADIENT OF THE CONSTRUCTION SITE. SEDIMENTATION BARRIERS SHALL BE SPECIFICALLY DESIGNED TO HANDLE THE SEDIMENT TYPE, LOAD, WATER DEPTH, AND FLOW CONDITIONS OF EACH CONSTRUCTION SITE THROUGHOUT THE ANTICIPATED TIME OF CONSTRUCTION AND UNSATURABLE SITE CONDITIONS. THE SEDIMENTATION BARRIER SHALL BE MAINTAINED IN GOOD WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT. UPON PROJECT COMPLETION, THE ACCUMULATED MATERIALS SHALL BE REMOVED AND DISPOSED OF AT AN UPLAND (NON-WETLAND, NON-FLOODPLAIN) SITE AND STABILIZED WITH SEED AND MULCH. THE SEDIMENTATION BARRIER SHALL THEN BE REMOVED IN ITS ENTIRETY AND THE AREA RESTORED TO ITS ORIGINAL CONFIGURATION AND COVER.
6. NO IN-STREAM WORKING SHALL OCCUR BETWEEN MARCH 15 AND JUNE 15 IF ANY CALIBER WORK THAT THIS POINT IS ACTIVE WITHOUT THE USE OF SILT CURTAINS TO SEGREGATE DEFINED WORK ZONES. WITH PROGRESSION OF WORK WITHIN ONE ZONE AT A TIME, IF SUCH WORK OCCURS THE PERMITEE SHALL CONTACT EGE 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND SUBMIT A PLAN DRAWING INDICATING SILT CURTAIN LAYOUT AND THE SEGREGATION OF WORK AREAS.

ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION

Wetland Delineation

Alliance of Rouge Communities

Wayne County parks

ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR BIDDING: 10-0611
AGENCY REVIEW: 10-0611
DESIGNANCE/COM/PERM/APP: 10-0611

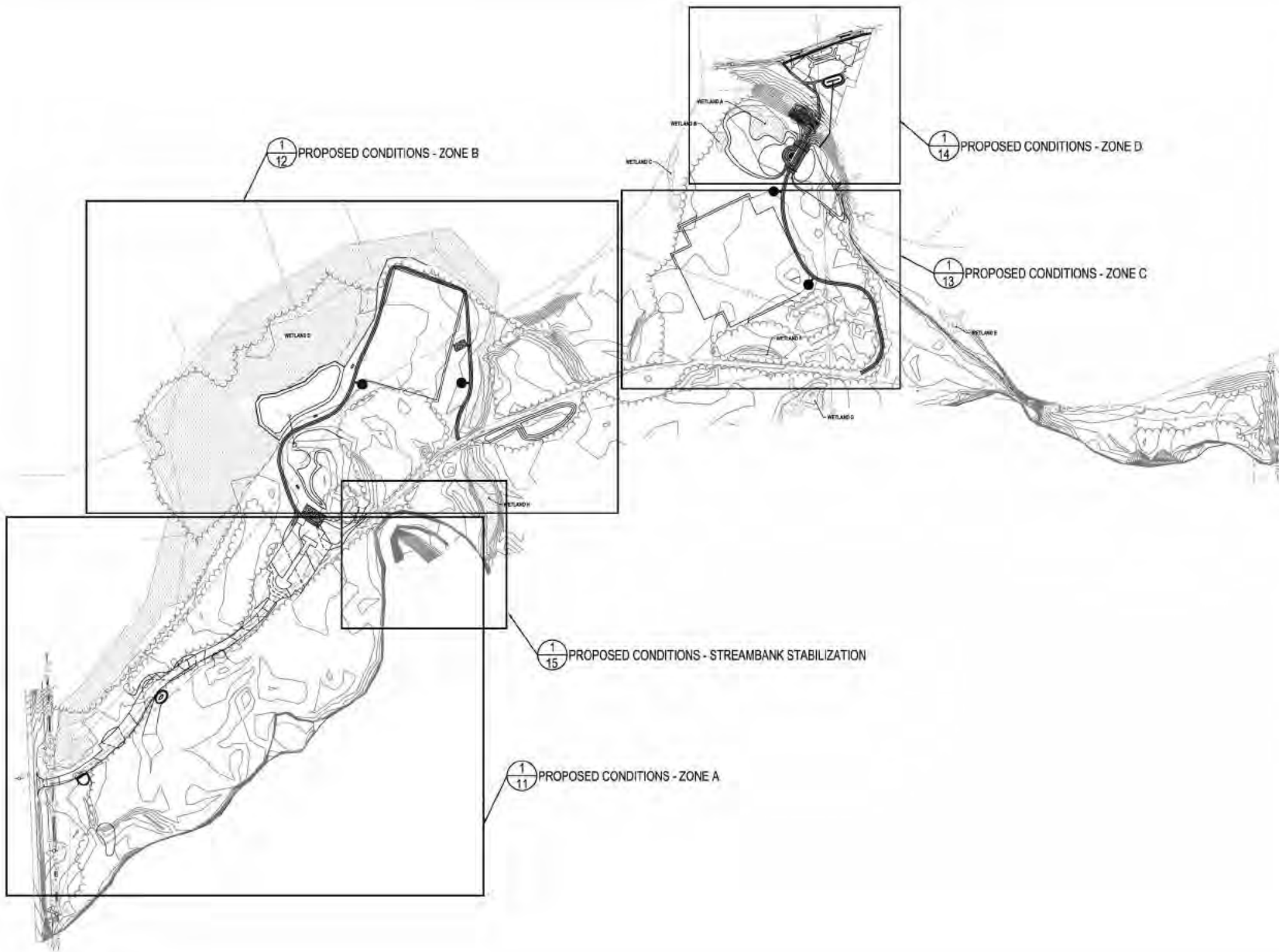
2011-10-20
DATE PROJECT NUMBER
APP DESIGNED BY: APP CHECKED BY:
DESIGNED BY: APPROVED BY:

SHEET TITLE
DEMOLITION PLAN - EAST

SCALE: 1" = 10' @ 22" x 34"

SOUTH

SHEET NUMBER
9



ECT Environmental Consulting & Technology, Inc.

Circled Lakes RESTORATION



ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR DESIGN: 11-2011
AGENCY REVIEW: 06-2012
CLEARANCE/JOINT PERMIT APP: 02-2013

2011-020
CITY PROJECT NUMBER:
DESIGNED BY: [blank] AND CHECKED BY: [blank]
DRAWN BY: [blank] AND APPROVED BY: [blank]

SHEET TITLE

PROPOSED CONDITIONS - OVERVIEW

SCALE: 1" = 10' @ 20" x 34"

NORTH
SHEET NUMBER
10

PROPOSED CONDITIONS - ZONE B
 PROPOSED CONDITIONS - ZONE A

WETLAND INVASIVE SPECIES TREATMENT AREA

WETLAND D

PARKING AREA 2

BIORETENTION SEED MIX 0.02 AC

FOR STREAMBANK WORK SEE SHEET 15

APPROXIMATE LOCATION OF EX SHEET PLUMB

BIORETENTION SEED MIX 0.05 AC

BIORETENTION SEED MIX 0.02 AC

BIORETENTION SEED MIX 0.02 AC

PARKING AREA 1

WOODY INVASIVE SPECIES TREATMENT AREA

OWNER'S RESPONSIBILITY FOR FEDERAL ENDORSEMENT MANAGEMENT ACTION PLAN FOR BIORETENTION SEED MIX (SEE SHEET 15) FROM INFORMATION PROVIDED BY SCALE, NO IN-PLACE ELEVATION IS CONSIDERED TO BE 60' TYPICAL

APPROX. G. OF VEHICULAR APPROACH

CONTRACTOR TO VERIFY APPROACH CLEAR LOCATION PRIOR TO CONSTRUCTION

INVASIVE SPECIES TREATMENT NOTES:

1. THE INVASIVE SPECIES TREATMENT WORK ASSOCIATED WITH THIS PROJECT INCLUDES TWO GENERAL ACTIVITIES:
 - WETLAND INVASIVE SPECIES TREATMENT WITHIN WETLAND D INCLUDING PURSUIT, NON-NATIVE CATTAILS, AND OTHER WETLAND INVASIVE SPECIES
 - WOODY INVASIVE SPECIES TREATMENT SOUTH OF GRAVEL DRIVE INCLUDING HONEYSUCKLE, BUCKTHORN, AND OTHER WOODY INVASIVE SPECIES
2. FOLLOW UP TREATMENTS ARE INCLUDED IN THIS PROJECT WORK. SEE SPECIFICATIONS
3. "WOODY INVASIVE SPECIES TREATMENT AREA" IS PREDOMINANTLY A WOODED AREA WITH NATIVE, NON-INVASIVE AND INVASIVE SPECIES. WITHIN THIS AREA THE FOLLOWING SPECIES WILL BE TARGETED FOR REMOVAL:
 - BUCKTHORN
 - HONEYSUCKLE
 - AUTUMN OLIVE
 - RUSSIAN OLIVE
 - TREE OF HEAVEN
 - GARLIC MUSTARD
4. CONTRACTOR AND ENGINEER/ECOLOGIST TO WALK THE INVASIVE SPECIES REMOVAL AREA TO IDENTIFY PLANTS TO BE REMOVED. ENGINEER/ECOLOGIST TO PROVIDE APPROVAL FOR REMOVALS
5. ALL PERMITS FOR INVASIVE SPECIES WORK TO BE ACQUIRED BY THE CONTRACTOR PRIOR TO START OF WORK
6. AREAS OF REMOVAL TO BE REVEGETATED. SEE REVEGETATION PLANS
7. ALL SITE IMPROVEMENTS, EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED DURING INVASIVE TREATMENT WORK.

LEGEND

- EXIST. VARIETY
- EXIST. VEHICULAR
- EXIST. OVERHEAD UTILITY LINE
- EXIST. GAS LINE
- EXIST. WATER MAIN
- EXIST. GATE VALVE/BOX
- EXIST. GATE VALVE/WELL
- EXIST. STORM SEWER
- EXIST. DRAINAGE BASIN OR PILE
- EXIST. SECTION
- EXIST. SANITARY SEWER
- EXIST. TREE
- EXIST. SINGLE TREE
- EXIST. BUSH
- EXIST. FENCED WOODS
- EXIST. FLOODED ZONE A
- EXIST. WETLAND
- PRO. CONCRETE PLACEMENT
- PRO. ASPHALT PAVEMENT
- PRO. BIORETENTION SEED MIX - SEE SHEET 15
- PRO. BIORETENTION AREA
- PRO. INVASIVE SPECIES REMOVAL
- PRO. CONCRETE PLACEMENT
- PRO. ASPHALT PAVEMENT
- PRO. BIORETENTION SEED MIX - SEE SHEET 15

ECT Environmental Consulting & Technology, Inc.

CITY OF WAYNE
 RESTORATION

ALLIANCE OF TRAILS COMMUNITIES
 GIVES TO PROTECT

Wayne County
 parks

ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR BIDDING	10/2023
AGENCY REVIEW	10/2023
ISSUANCE/DATE PERMIT APPL.	10/2023
DATE PROJECT NUMBER	202314228
DESIGNED BY	AS
CHECKED BY	AS
DRAWN BY	AS
APPROVED BY	AS

PROPOSED CONDITIONS - ZONE A

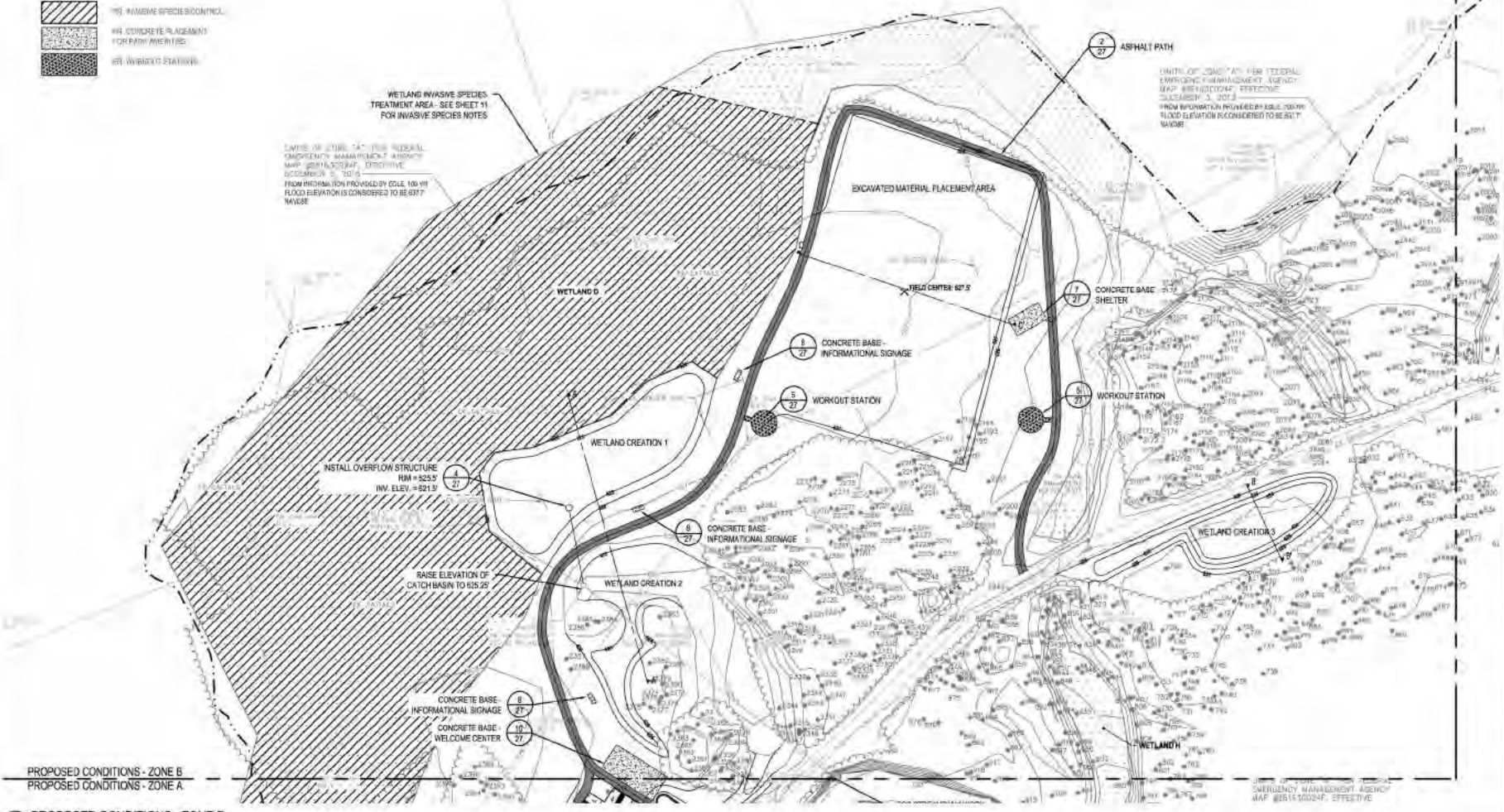
SCALE: 1" = 60' @ 22" x 34"

NORTH

SHEET NUMBER

11

- LEGEND**
- EXIST. CONTOUR
 - EXIST. WATER MAIN
 - EXIST. STATE WATER MAIN
 - EXIST. STORM SEWER
 - EXIST. SATCH BASIN OR INLET
 - 2ND SECTION
 - 3/4 SECTION
 - EXIST. SANITARY SEWER
 - EXIST. GAS LINE MARKER
 - WRENCH HOLE
 - TRAIL OR BRUSH CLEAT
 - NOT FIELD VERIFIED LIMIT OF FLOOD ZONE A
 - WETLAND
 - W1 CONTOUR
 - W2 ASPHALT PATH
 - W3 BIODIVERSITY AREA
 - W4 INVASIVE SPECIES CONTROL
 - W5 CONCRETE PLACEMENT FOR PUMP WEIR/PIES
 - W6 WOODPILE STRUCTURE



PROPOSED CONDITIONS - ZONE B
PROPOSED CONDITIONS - ZONE C



ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD	11-2021
AGENCY REVIEW	10-2021
RELEASE/COM/PERM/APP	10-2021
2011-2021	
DOT PROJECT NUMBER	
DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY

SHEET TITLE
PROPOSED CONDITIONS - ZONE B

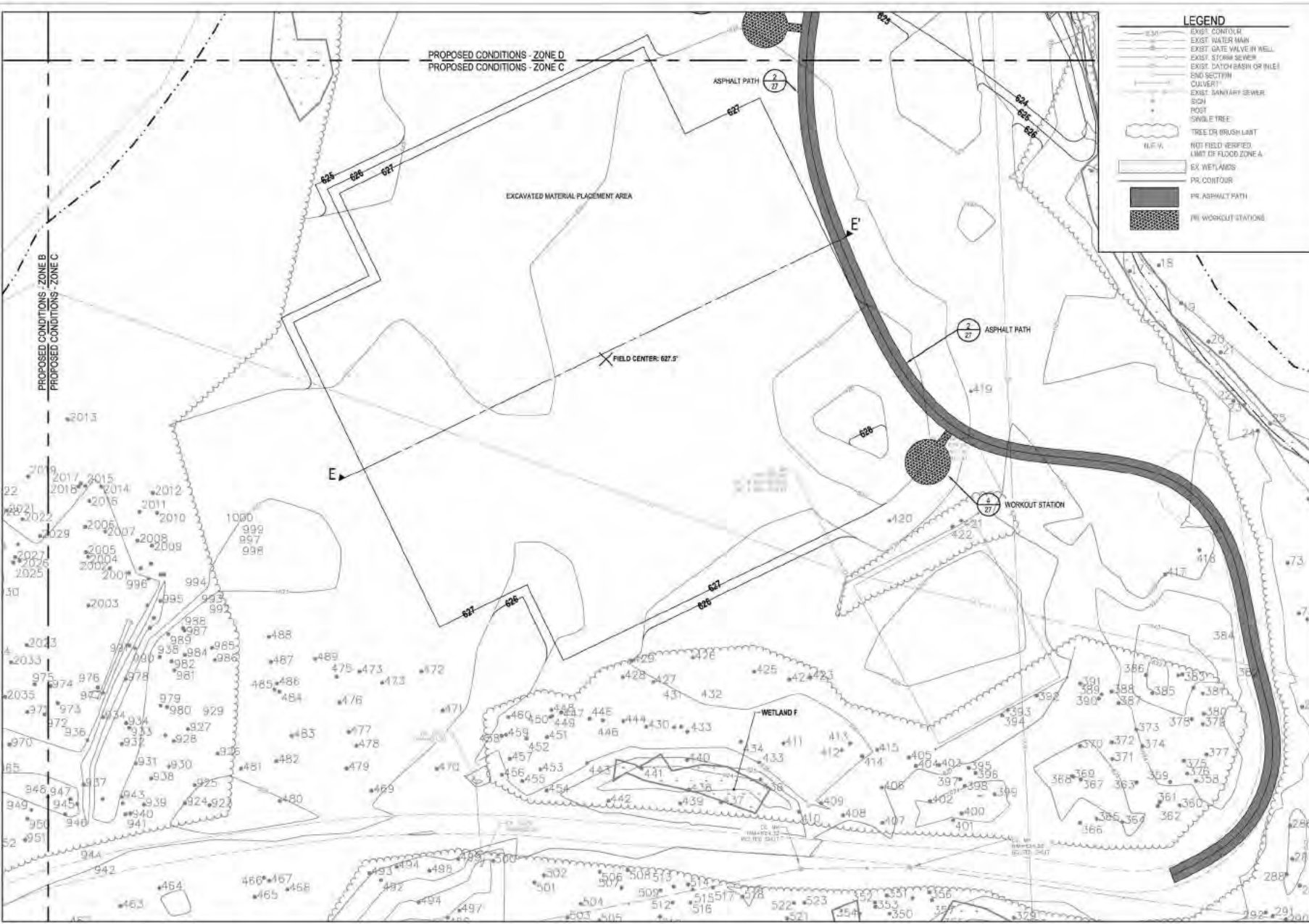
SCALE: 1" = 67' @ 22" x 34"

NORTH

SHEET NUMBER
12

PROPOSED CONDITIONS - ZONE B
PROPOSED CONDITIONS - ZONE A
PROPOSED CONDITIONS - ZONE B

UNIT OF SCALE: 1" = 67' @ 22" x 34"
EMERGENCY MANAGEMENT AGENCY
MAP #261510024F, EFFECTIVE



ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION

ROUGE RIVER WATERSHED

ALLIANCE of Rouge Communities **JOIN TO PROTECT**

Wayne County **parks**

ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD	11-2011
AGENCY REVIEW	10-2011
CLEARANCE/JOINT PERMIT APP.	10-2011
2011-028	
DOT PROJECT NUMBER	
ADD DESIGNED BY	ADD CHECKED BY
DRAWN BY	APPROVED BY

SHEET TITLE

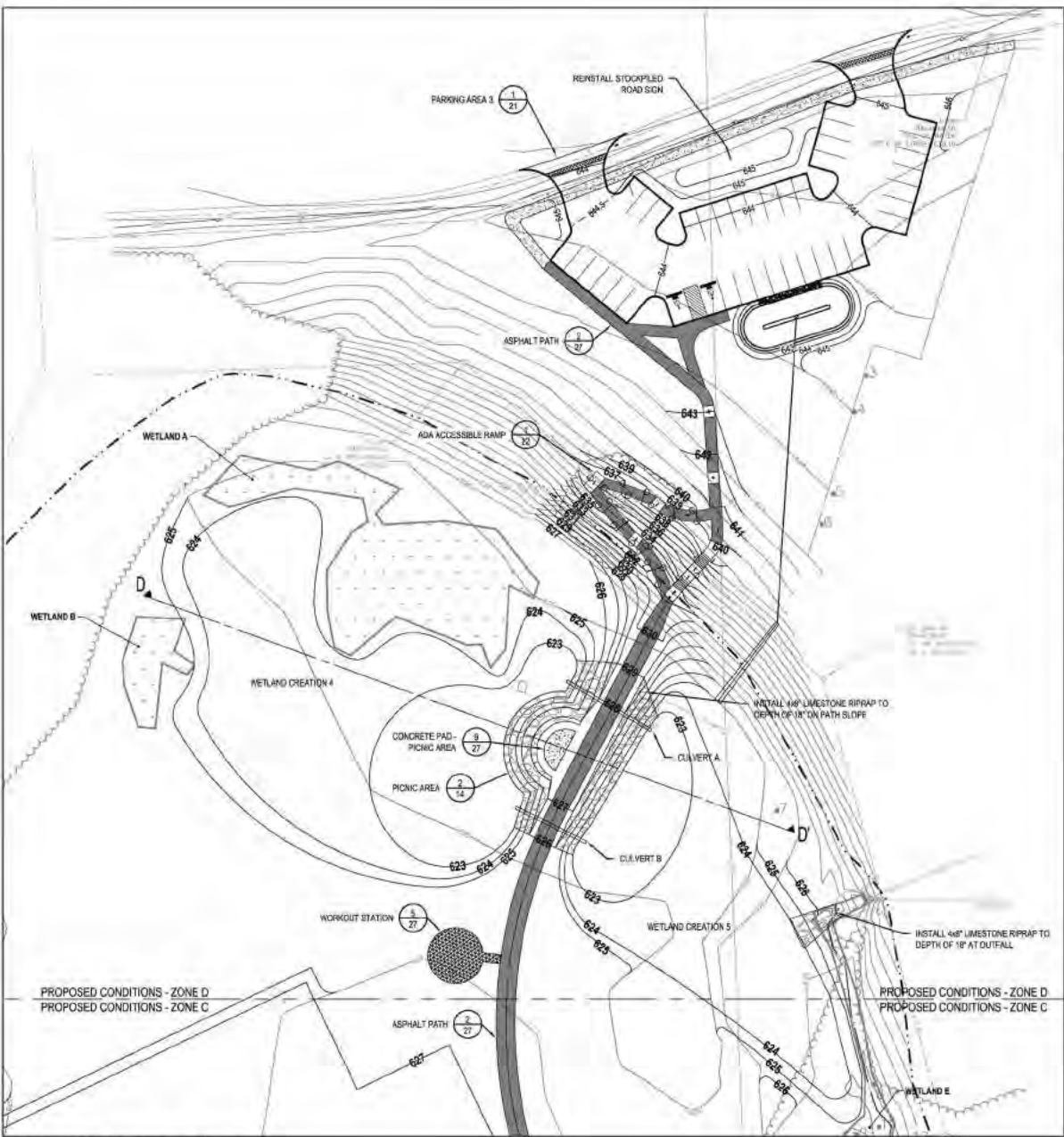
PROPOSED CONDITIONS - ZONE C

SCALE: 1" = 30' @ 22" x 34"

NORTH

SHEET NUMBER **13**

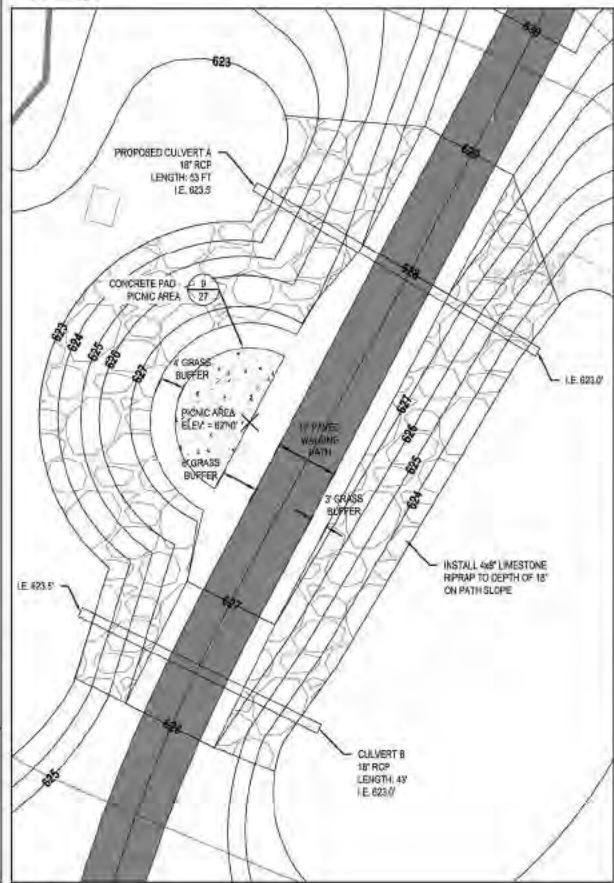
1 15 PROPOSED CONDITIONS - ZONE C



1 PROPOSED CONDITIONS - ZONE D
SCALE: 1" = 30'

LEGEND

- EXIST. 60" DIA. CURB
- EXIST. 48" DIA. CURB
- EXIST. DATE W/IN. IN WELL
- EXIST. 1" IN CORR. SLOPE
- EXIST. DITCH MARK OR 18" x 18" EMB. SECTION
- CULVERT
- EXIST. SANITARY SEWER
- SIGN
- POST
- TRIPLE TREE
- THREE LANE BRIDGE
- NOT FIELD VERIFIED
- LINE OF FLOOD EDGE
- 18" PLANK
- FR 1" CONTOUR
- FR 1/2" CONTOUR
- FR CURB
- FR ASPHALT PATH
- FR BIOWETLAND AREA
- FR BIOWETLAND PLACEMENT FOR MARK ANTIMES
- FR RIPRAP PLACEMENT
- FR VORWOLFE STATION



2 PICNIC AREA
SCALE: 1" = 10'

ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION

Wetland Mitigation Bank

Alliance of Rouge Communities
GOING TO PROTECT

Wayne County
parks

**ROUGE RIVER WATERSHED
AOC-WAYNE COUNTY
HABITAT RESTORATION**

**VENYO DORSEY PARK WETLAND
AND FISH HABITAT
STRUCTURES PROJECT**

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD	11-2021
AGENCY REVIEW	10-2021
ISSUANCE/COMPLIMENT APP.	10-2021
20111-0226	
ECT PROJECT NUMBER	AND
DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY

SHEET TITLE
PROPOSED CONDITIONS - ZONE D

SCALE: "VARIES"

NOTED SHEET NUMBER
14



ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR BIDDING: 10-2021
AGENCY REVIEW: 10-2021
DISSEMINATION PERMIT APP: 10-2021

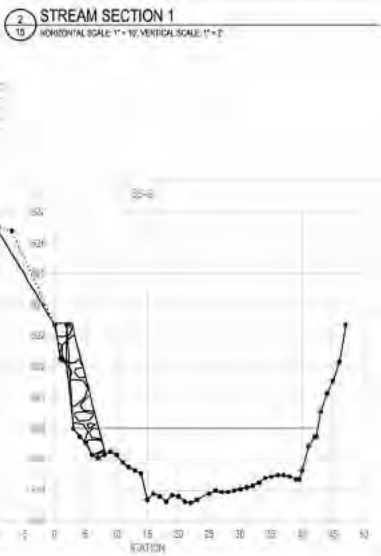
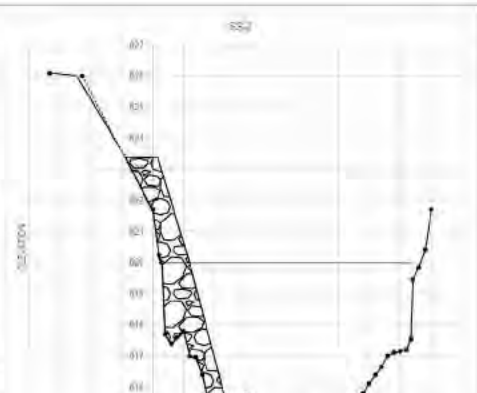
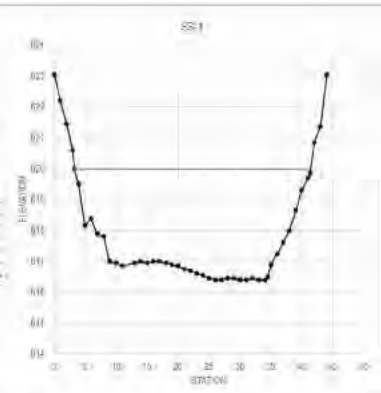
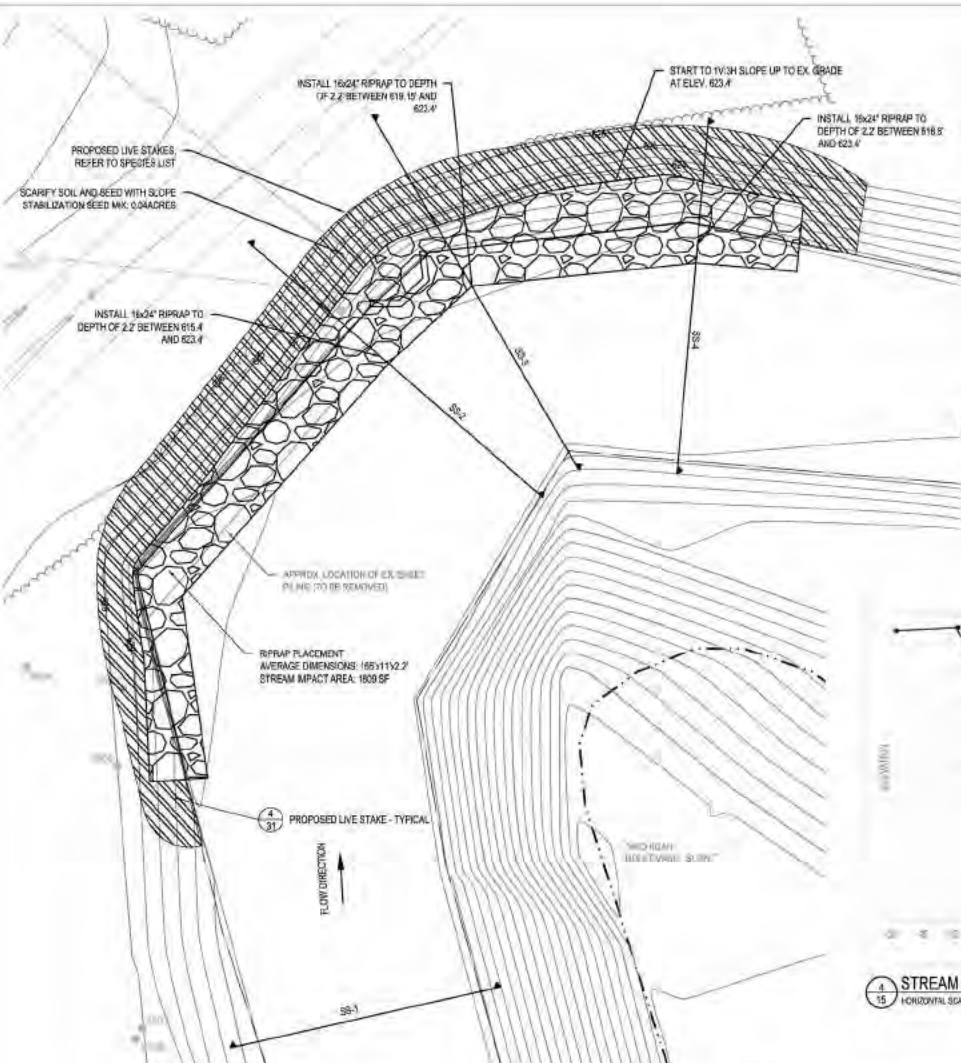
DATE: 08/24/21
BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

SHEET TITLE

PROPOSED CONDITIONS - STREAMBANK STABILIZATION

SCALE: 1" = 37' @ 22" x 34"

SOUTH SHEET NUMBER: 15



1 PROPOSED CONDITIONS - STREAMBANK STABILIZATION
SCALE: 1" = 37'

NOTE: SOIL REMOVED FOR GRADINGS OF STREAMBANK STABILIZATION AREA SHALL BE DISPOSED OF OFF-SITE IN A TYPE II LANDFILL.

LEGEND

- EXIST. CONTOUR
- EXIST. SPOT ELEVATION
- EXIST. WATER MAIN
- EXIST. DATE WALL IN WALL
- EXIST. CATCH BASIN OR INLET
- CULVERT
- SINGLE TREE
- TREE OR BRUSH LIMIT
- EXIST. WATER MAIN DATE OF SURVEY (1/13/2000)
- LIMITS OF FLOOD ZONE A
- PROPOSED RIPRAP PLACEMENT
- LIVE STAKES
- PROPOSED CONTOUR

LIVE STAKE INSTALLATION

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING
100		ALNUS INCANUS	RED ALDER	4" HT.	2' O.C.
100		CORNUS AMOMUM	SILKY DOGWOOD	4" HT.	2' O.C.
100		CORNUS SERICEA	RED-OSIER DOGWOOD	4" HT.	2' O.C.
100		SALIX INTERIOR	SANDBAR WILLOW	4" HT.	2' O.C.

NOTE: PLANT LIVE STAKES SPECIES IN GROUPS OF 3-7 AT 2FT. O.C. THROUGHOUT STABILIZATION AREA AS DRAWN. SPECIES SHALL BE EVENLY DISTRIBUTED THROUGHOUT PLANTING LIMITS TO MAXIMIZE DIVERSITY.

WATER SOILING STABILIZATION SEED MIX SHALL BE PROVIDED BY:

OR APPROVED EQUAL:

WE'RE CONNECTING

www.wereconnecting.com

PHONE: 248-460-4000

EMAIL: info@wereconnecting.com

SLOPE STABILIZATION SEED MIX

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

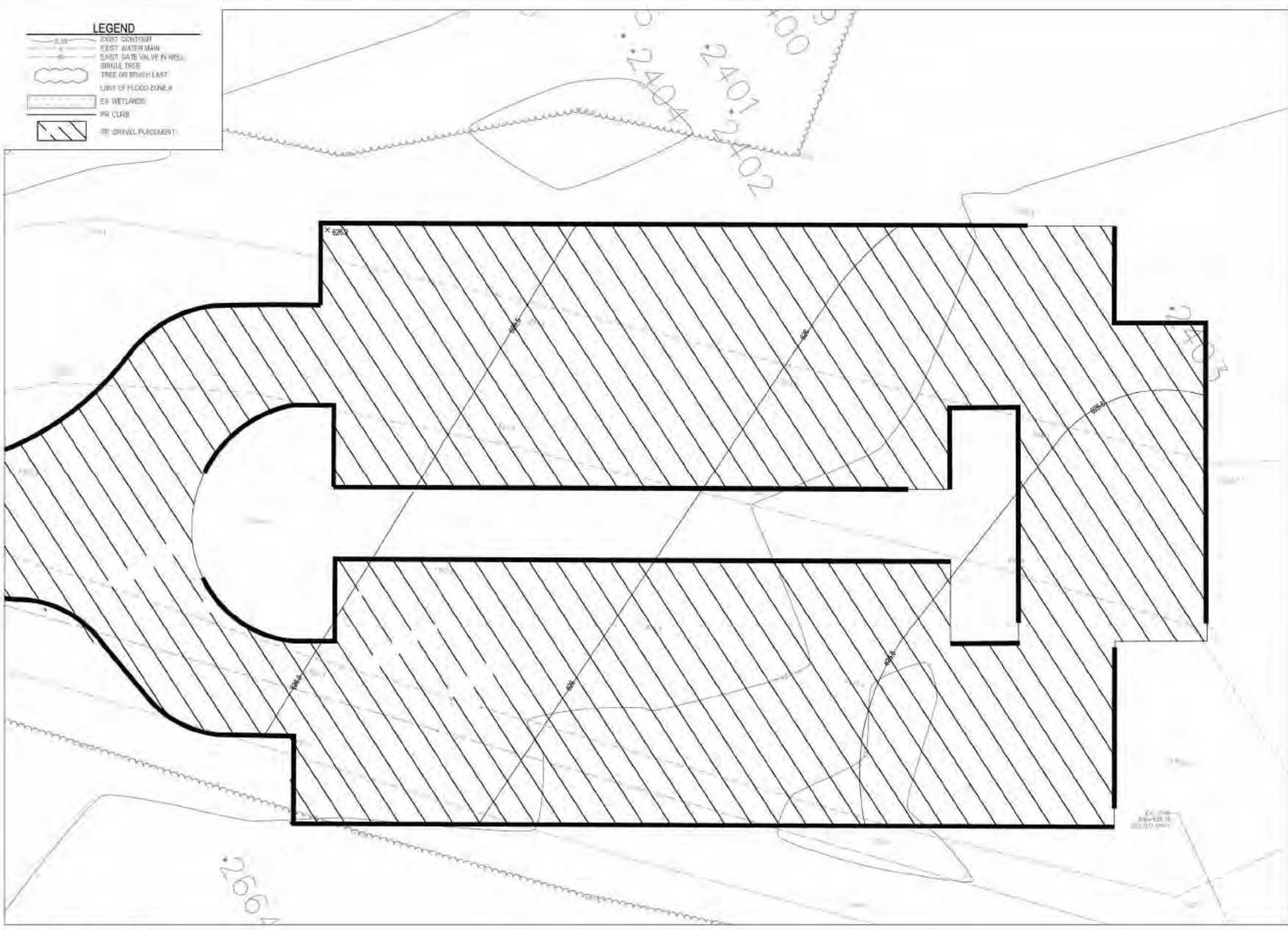
1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

1/4" seed mix - 40% by volume

- LEGEND**
- EXIST. CONTOUR
 - EXIST. WATER MAIN
 - EXIST. 24" E. VALVE IN WELL
 - BRUSH TREE
 - TREE OR BRUSH LIMIT
 - LIMIT OF FLOOD ZONE #
 - EX WETLANDS
 - PR CURB
 - RE (GRAVEL PLACEMENT)



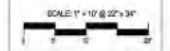
**ROUGE RIVER
WATERSHED
AOC-
WAYNE COUNTY
HABITAT
RESTORATION**

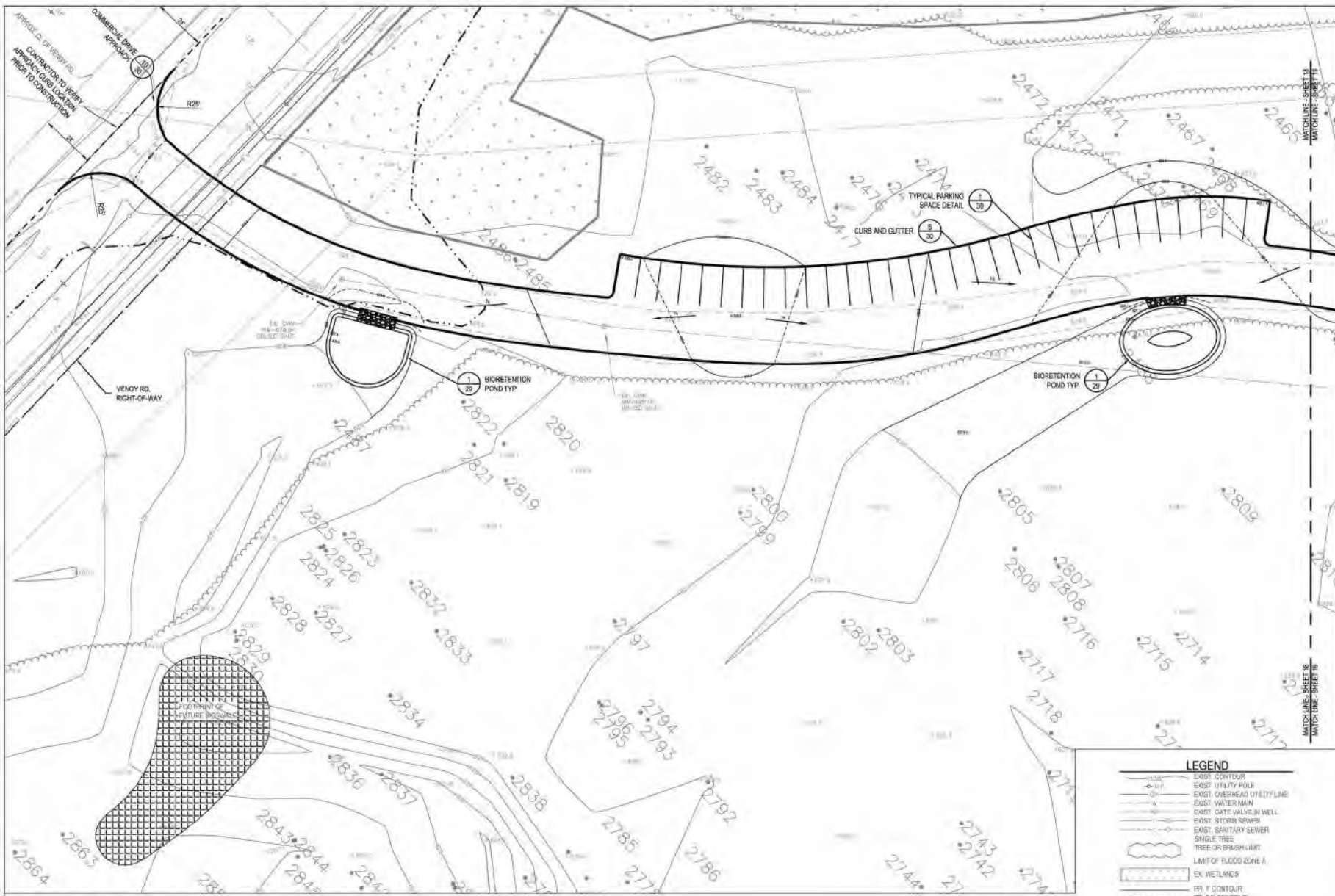
**VENOY DORSEY
PARK WETLAND
AND FISH
HABITAT
STRUCTURES
PROJECT**

ALLIANCE OF ROUGE
COMMUNITIES
WAYNE COUNTY,
MICHIGAN

FOR REVIEW:	11-2011
AGENCY REVIEW:	10-2011
RELEASE/ISSUE JOINT PERMIT APP:	10-2011
2011-028	
ECT PROJECT NUMBER	
DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY

SHEET TITLE
**RESTORED
GRAVEL LOT 2**





18 PARKING AREA 1, BIOSWALE 1 AND 2
SCALE: 1" = 20'

LEGEND

- EXIST. CONTOUR
- EXIST. UTILITY POLE
- EXIST. OVERHEAD UTILITY LINE
- EXIST. WATER MAIN
- EXIST. GATE VALVE SH WELL
- EXIST. STORM SEWER
- EXIST. SANITARY SEWER
- SINGLE TREE
- TREE OR BRUSH CLUMP
- LIMIT OF FLOOD ZONE A
- EX. WETLANDS
- PR. 1' CONTOUR
- PR. 0.5' CONTOUR
- PR. CURB
- PR. BIORETENTION POND

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ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

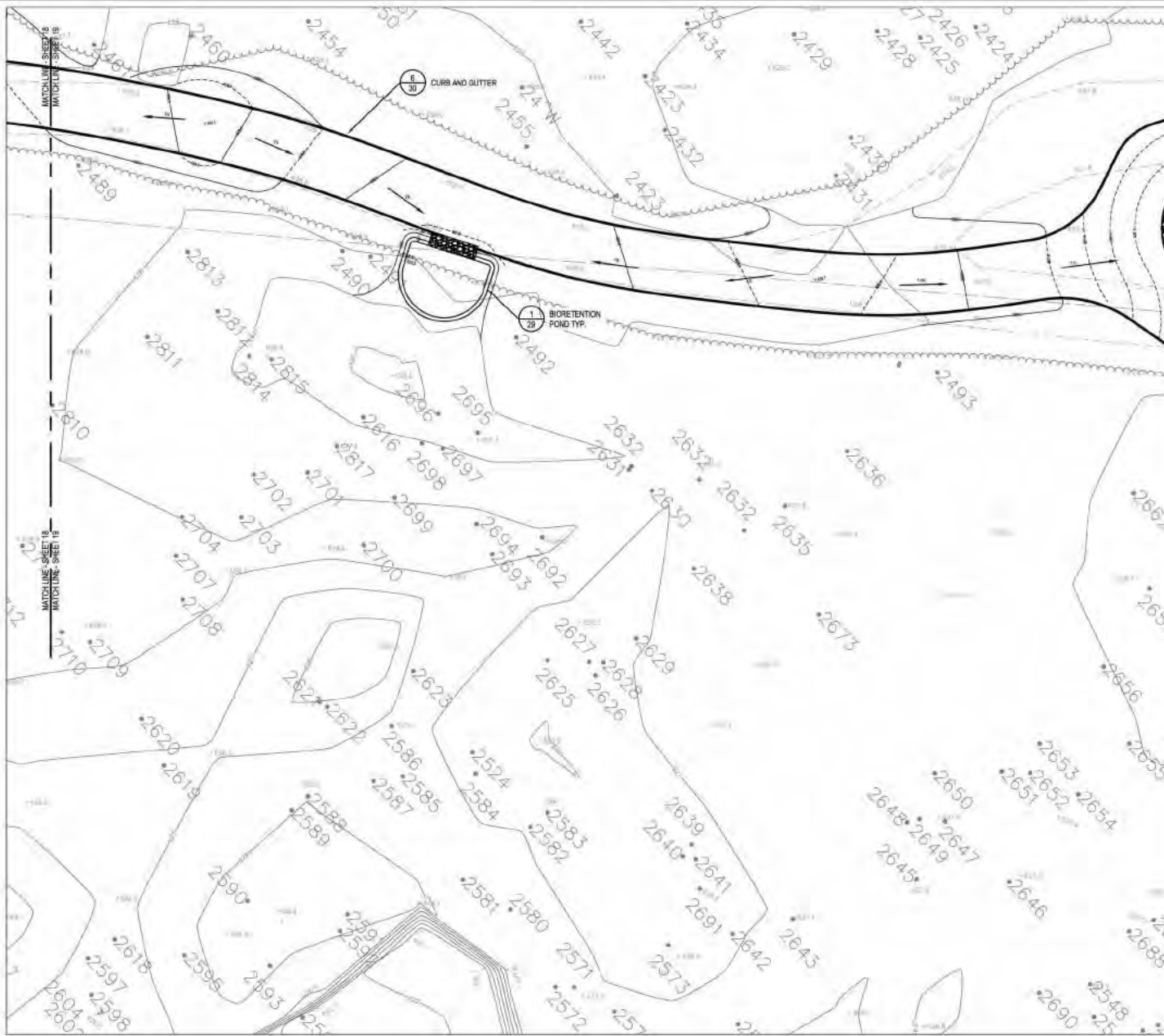
FOR RECORD	11-2011
AGENCY REVIEW	10-2011
ISSUANCE/CONTRACT PERMIT APP.	10-2011
ECT PROJECT NUMBER	20111-029
DESIGNED BY	AND
CHECKED BY	AND
DRAWN BY	AND
APPROVED BY	AND

SHEET TITLE
PROPOSED CONDITIONS - PAVING 1

SCALE: 1" = 20' @ 22" x 34"

NORTH

SHEET NUMBER
18



LEGEND

	EXIST. CONTOUR
	EXIST. UTILITY POLE
	EXIST. OVERHEAD UTILITY LINE
	EXIST. WATER MAIN
	EXIST. GATE VALVE OR WELL
	EXIST. STORM SEWER
	EXIST. SANITARY SEWER
	SINGLE TREE
	TREE OR BRUSH LIMIT
	LIMIT OF FLOOD ZONE A
	EX. WETLANDS
	PR 1 CONTOUR
	PR 1.5 CONTOUR
	PR CURB
	PR BIORETENTION AREA

1 BIOSWALE 3
SCALE: 1" = 20'

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Great Lakes RESTORATION

Wayne County parks

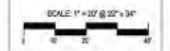
ROUGE RIVER WATSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

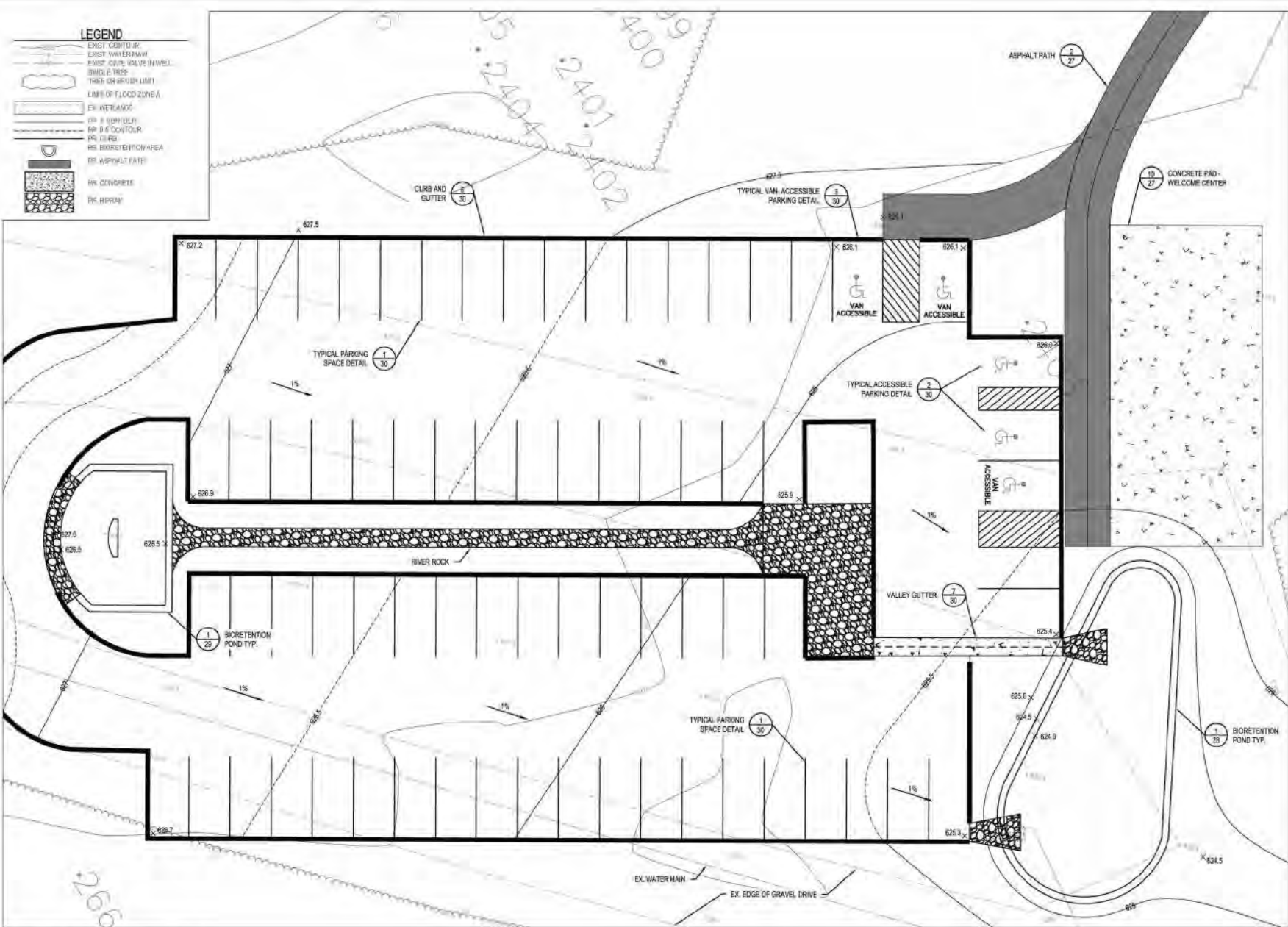
FOR RECORD:	11-2021
AGENCY REVIEW:	10-2021
REGISTRATION/COMMIT PERMIT APP:	10-2021
20111-0228	
DOT PROJECT NUMBER:	
DESIGNED BY:	CHECKED BY:
DRAWN BY:	APPROVED BY:

SHEET TITLE
PROPOSED CONDITIONS - PAVING 2



NORTH

SHEET NUMBER
19



20 PARKING AREA 2, BIOSWALE 4 AND 5
SCALE: 1" = 10'

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Great Lakes RESTORATION

ROUGE RIVER WATERSHED RESTORATION

Wayne County parks

ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR RECORD:	11-2011
AGENCY REVIEW:	05-2011
EGS/SPACE/CONF/PERMIT APP:	10-2011
2011-0208	
DOT PROJECT NUMBER:	
AND DESIGNED BY:	AND CHECKED BY:
AND DRAWN BY:	AND APPROVED BY:

SHEET TITLE
PROPOSED CONDITIONS - PAVING 3

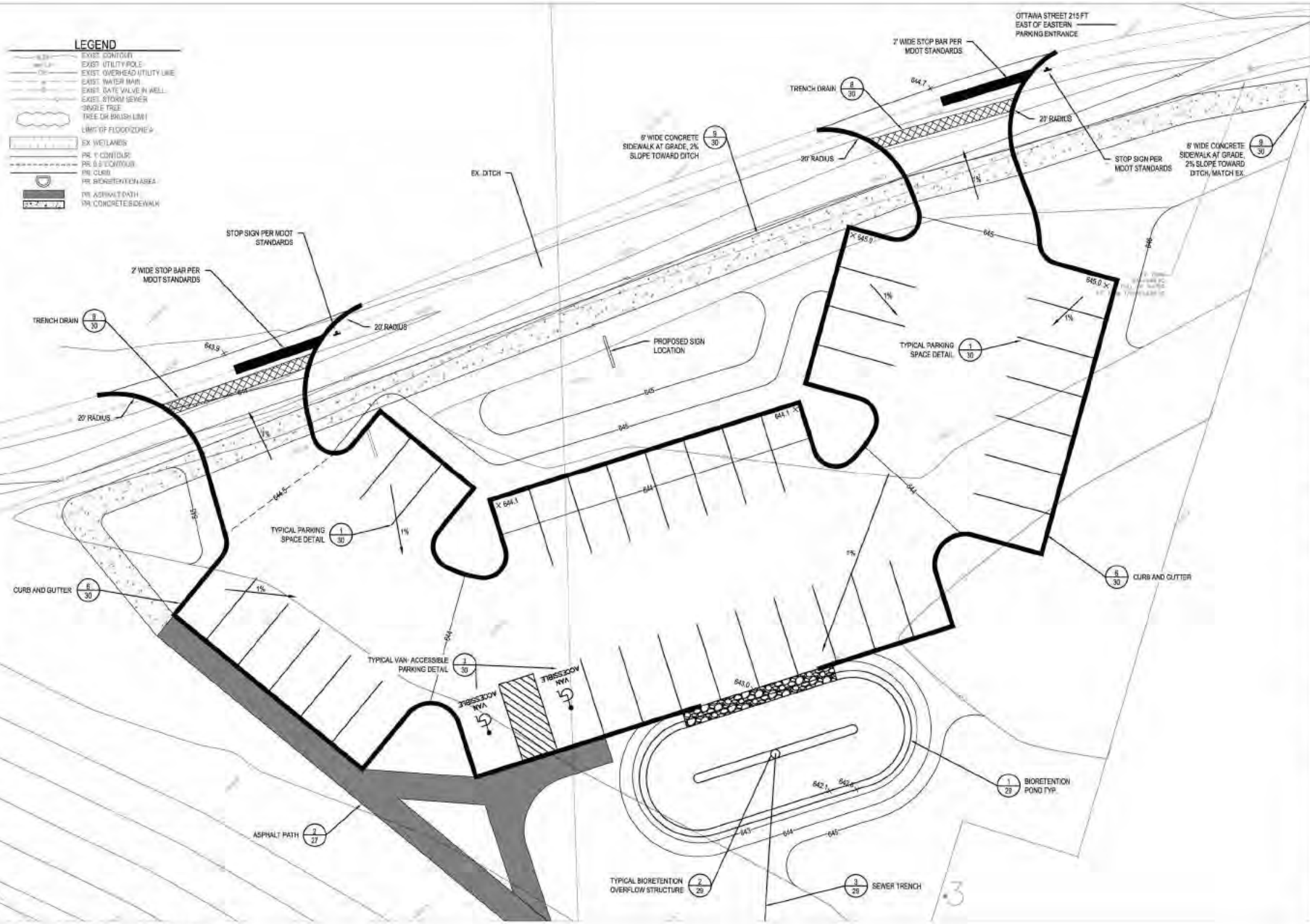
SCALE: 1" = 10' @ 22" x 31"

NORTH

SHEET NUMBER
20

LEGEND

---	EXIST. EIGHTH
---	EXIST. UTILITY POLE
---	EXIST. OVERHEAD UTILITY LINE
---	EXIST. WATER MAIN
---	EXIST. GATE VALVE IN WELL
---	EXIST. STORM SEWER
---	SINGLE TREE
---	TREE OR BRUSH LIMB
---	LIMIT OF FLOODZONE 5
---	EX. WETLANDS
---	PR. 1% CONTIGUOUS
---	PR. 0.5% CONTIGUOUS
---	PR. CURB
---	PR. BIORETENTION AREA
---	PR. ASPHALT DASH
---	PR. CONCRETE SIDEWALK



1 21 PARKING AREA 3, BIOSWALE 6 AND 7
SCALE: 1" = 30'

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Wayne County parks

ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

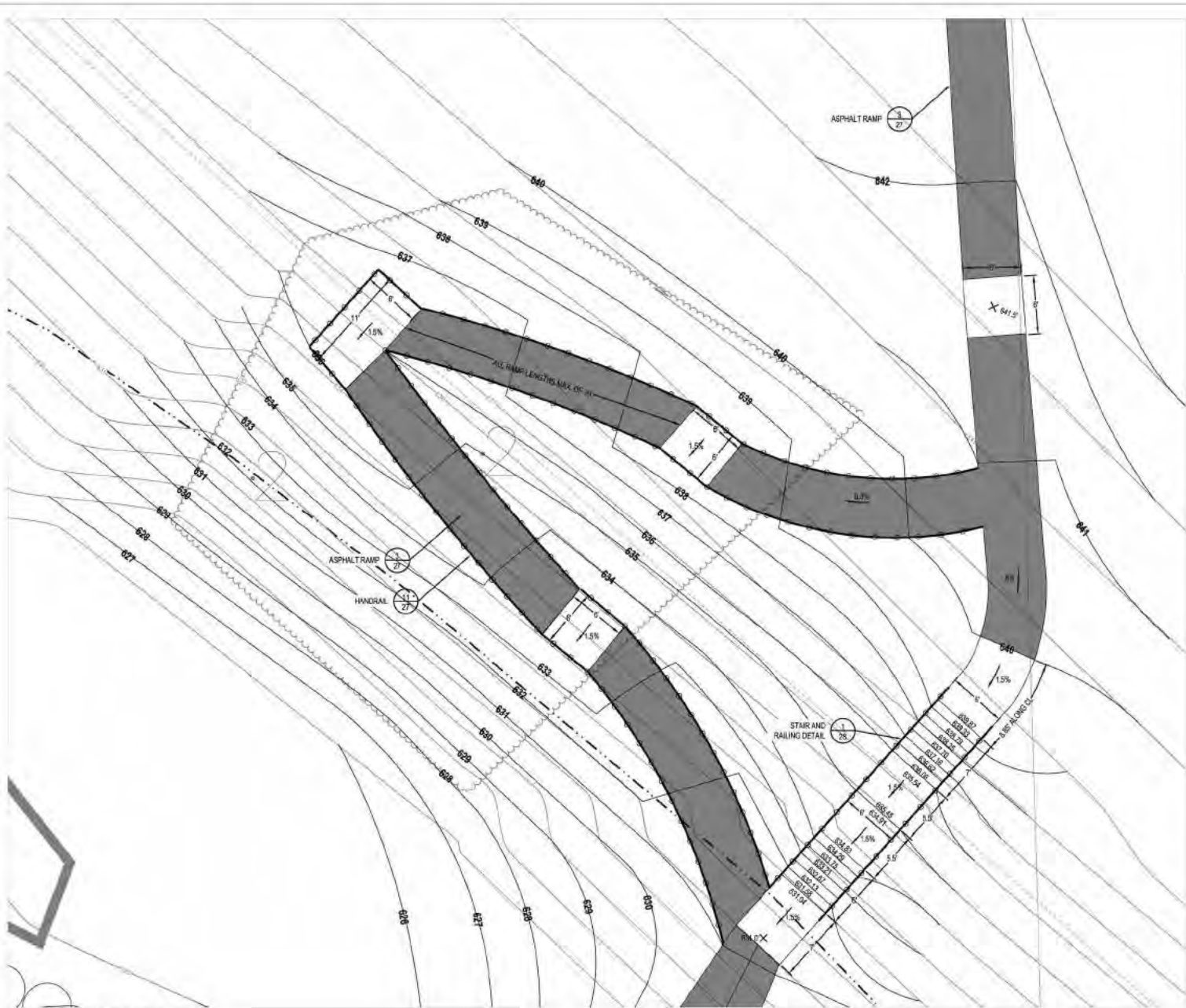
FOR BIDDING	11-2021
AGENCY REVIEW	10-2021
RELEASE/AGMT PERMIT APP.	10-2021
20111-0239	
ECT PROJECT MANAGER	AND
DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY

PROPOSED CONDITIONS - PAVING 4

SCALE: 1" = 10' @ 22" x 34"

NORTH

SHEET NUMBER
21



- LEGEND**
- EXIST. CONTOUR
 - EXIST. STORM SEWER
 - EXIST. SANITARY SEWER
 - SINGLE TREE
 - TREE OF BRUSH LIMIT
 - LIMIT OF FLOOD ZONE A
 - EX. WETLANDS
 - FR. 1' CHECKLINE
 - FR. HANDRAIL
 - FR. ASPHALT RAMP



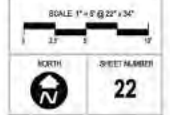
ROUGE RIVER WATSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

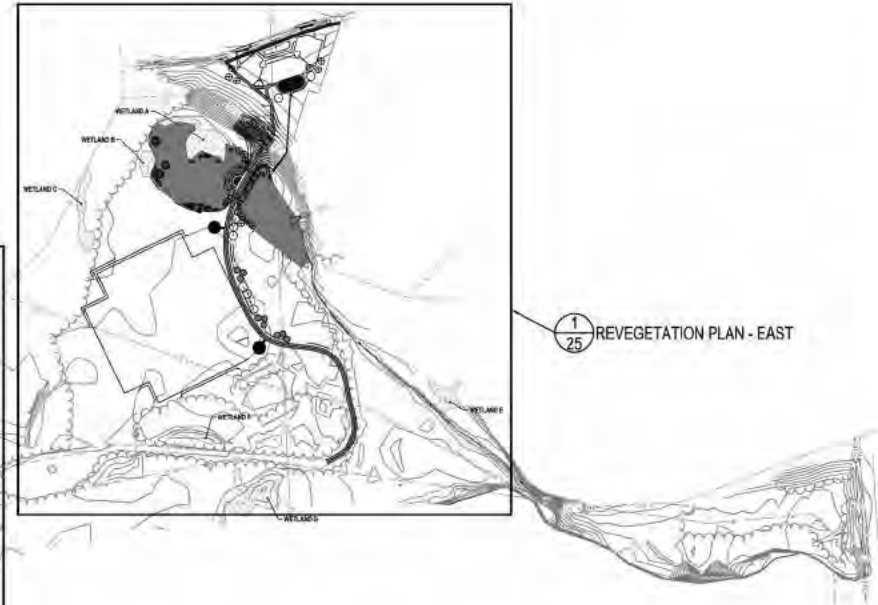
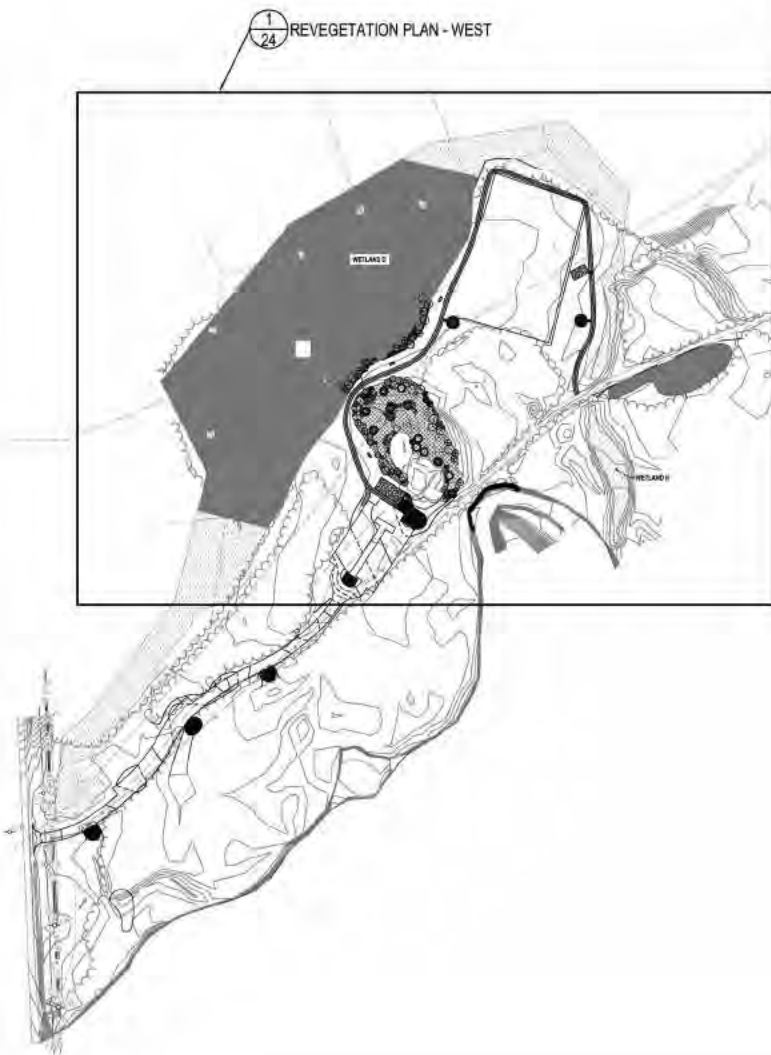
ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR REVIEW:	11-2011
AGENCY REVIEW:	05-2012
CLEARANCE/CONTR. PERMIT APP.	02-2012
2011-0208	
ECT PROJECT NUMBER:	
DESIGNED BY:	AND
CHECKED BY:	AND
DRAWN BY:	AND
APPROVED BY:	

SHEET TITLE
PROPOSED CONDITIONS - ADA ACCESSIBLE RAMP



ADA ACCESSIBLE RAMP
SCALE 1" = 10'



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ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR REVIEW: 11-2011
AGENCY REVIEW: 05-2012
CLEARANCE/JOINT PERMIT APP: 10-2012

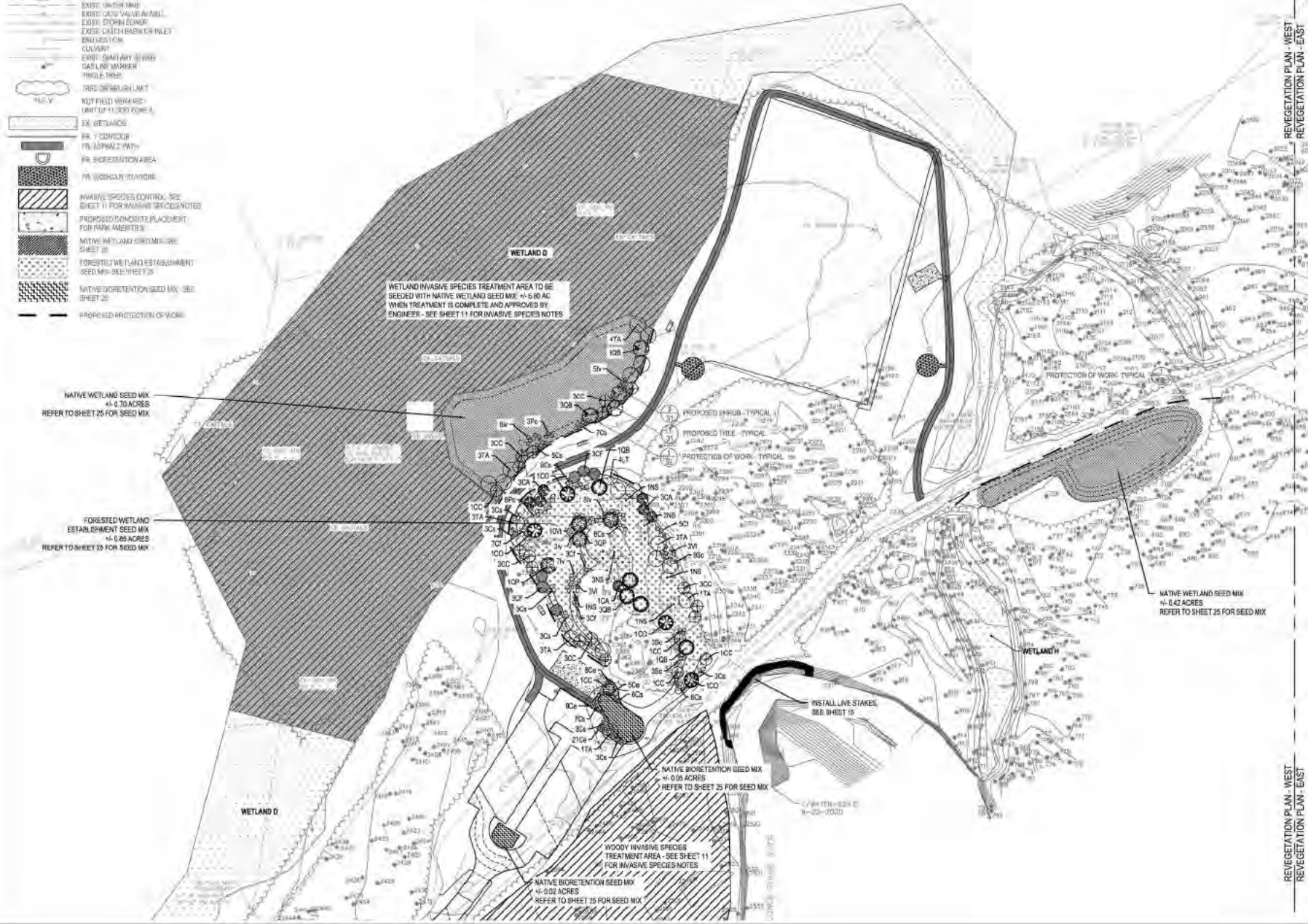
2011-0208
ECT PROJECT NUMBER
AND DESIGNED BY AND CHECKED BY
AND DRAWN BY AND APPROVED BY

SHEET TITLE
REVEGETATION PLAN - OVERVIEW

SCALE: 1" = 10' @ 21" x 34"

NORTH SHEET NUMBER
23

- LEGEND**
- EXIST. LOT/LINE
 - EXIST. WATER MAIN
 - EXIST. GATE VALVE ASSEMBLY
 - EXIST. STORM SEWER
 - EXIST. CATCH BASIN OR INLET
 - EXIST. 150' C&G
 - UTILITY
 - EXIST. SANITARY (3" DIA)
 - GAS LINE MARKER
 - TRIPLE TREE
 - RES. DETENTION LIMIT
 - WDT FIELD (8" DIA) RES. LIMIT OF 11,000 GPM @ 4'
 - EM. WETLAND
 - PR. 1' CONTOUR
 - PR. ASPHALT PATH
 - PR. BIOPRETENTION AREA
 - PR. (WOODEN) STAIRCASE
 - INVASIVE SPECIES CONTROL - SEE SHEET 11 FOR INVASIVE SPECIES NOTES
 - PROPOSED CONCRETE PLACEMENT FOR PARK AMENITIES
 - NATIVE WETLAND SEED MIX - SEE SHEET 25
 - FORESTED WETLAND ESTABLISHMENT SEED MIX - SEE SHEET 29
 - NATIVE BIOPRETENTION SEED MIX - SEE SHEET 25
 - PROPOSED PROTECTION OF WORK



REVEGETATION PLAN - WEST
REVEGETATION PLAN - EAST

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ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT RESTORATION STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

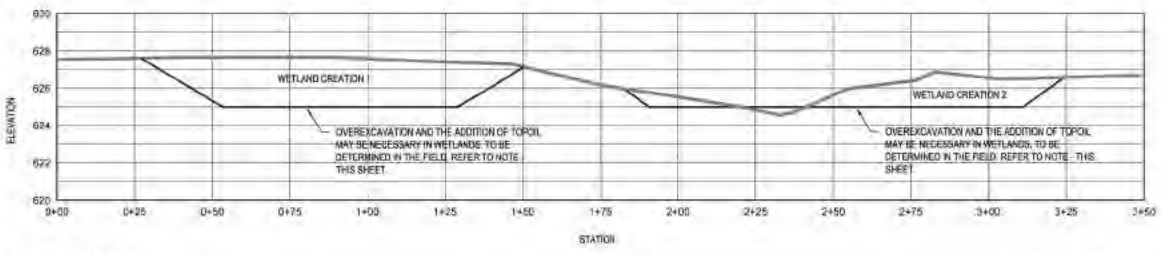
FOR RECORD:	15-2011
AGENCY REVIEW:	16-2021
CLEARANCE/JOB PERMIT APP:	16-2021
2011-0301 JOB PROJECT NUMBER:	
DESIGNED BY:	AW
CHECKED BY:	JMC
DRAWN BY:	JMC
APPROVED BY:	

**REVEGETATION PLAN - WEST
REVEGETATION PLAN - EAST**

SCALE: 1" = 50' @ 22" x 34"

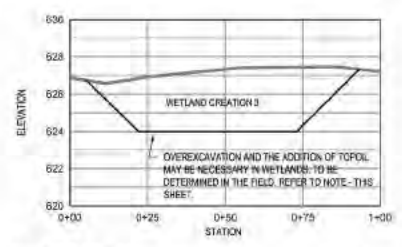
NORTH

24



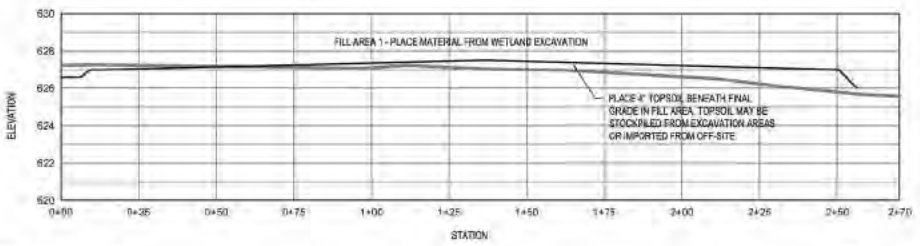
SECTION A-A'
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 0.2'

LEGEND
 EX: CONTOUR
 PR: CONTOUR



SECTION B-B'
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 0.2'

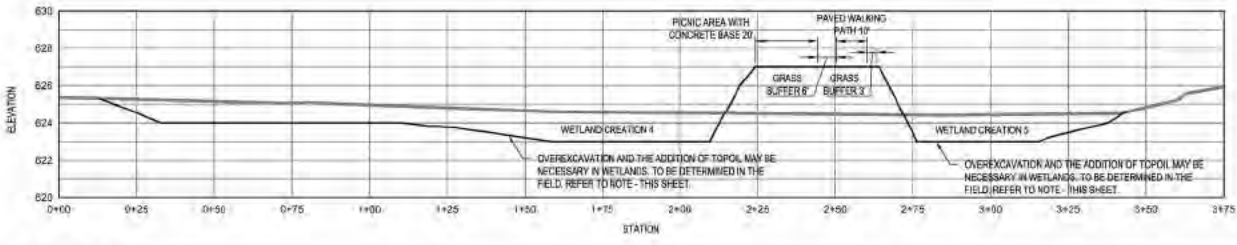
LEGEND
 EX: CONTOUR
 PR: CONTOUR



SECTION C-C'
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 0.2'

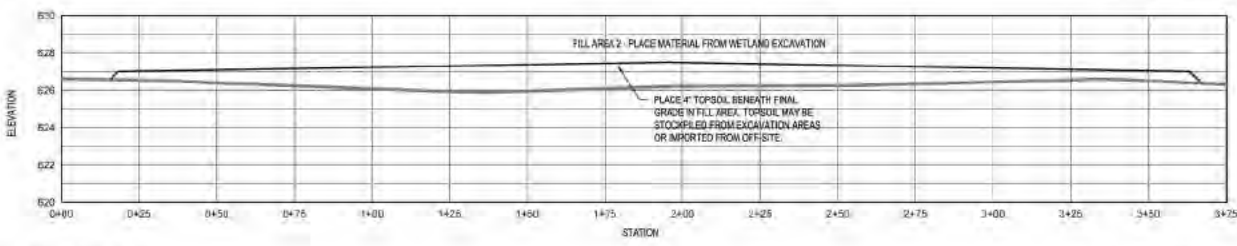
LEGEND
 EX: CONTOUR
 PR: CONTOUR

WETLAND TOPSOIL NOTE:
 THE CONTRACTOR SHALL NOTIFY ENGINEER/LANDSCAPE ECOLOGIST WHEN ROUGH WETLAND GRADES ARE MET AT THAT TIME THE ENGINEER/LANDSCAPE ECOLOGIST WILL DETERMINE IN THE FIELD IF ADDITIONAL TOPSOIL IS NECESSARY TO ACHIEVE DESIRED SOIL COMPOSITION. UP TO 4" OF TOPSOIL MAY BE USED, AS NEEDED AND INCORPORATED INTO THE SURFACE SOILS. CONTRACTOR SHALL ENSURE ALL TOPSOIL IS INCORPORATED INTO THE EXISTING SOIL, AND THAT FINAL GRADES ARE MET. TOPSOIL SHALL BE CLEAN, IMPORTED FROM OFF-SITE AND APPROVED BY ENGINEER/LANDSCAPE ECOLOGIST.



SECTION D-D'
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 0.2'

LEGEND
 EX: CONTOUR
 PR: CONTOUR



SECTION E-E'
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 0.2'

LEGEND
 EX: CONTOUR
 PR: CONTOUR



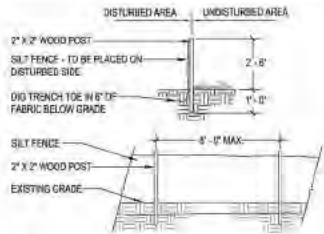
ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

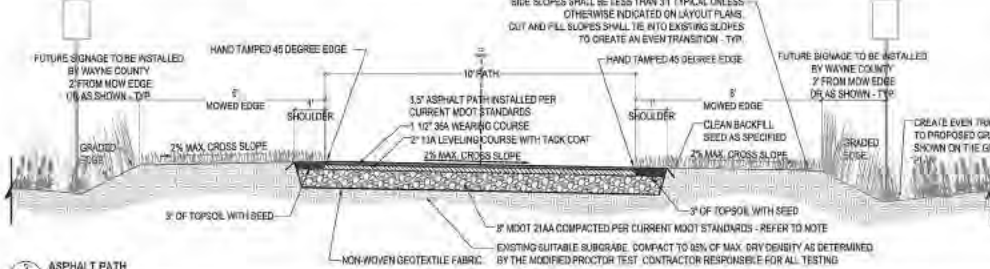
ALLIANCE OF ROUGE COMMUNITIES
 WAYNE COUNTY, MICHIGAN

FOR REVIEW:	03-01
AGENCY REVIEW:	06-01
SECURANCE/COM/PERM/APP:	09-01
DATE OF PROJECT CHANGE:	
DESIGNED BY:	AKS
CHECKED BY:	AKS
DRAWN BY:	AKS
APPROVED BY:	AKS

SHEET TITLE
CROSS SECTIONS

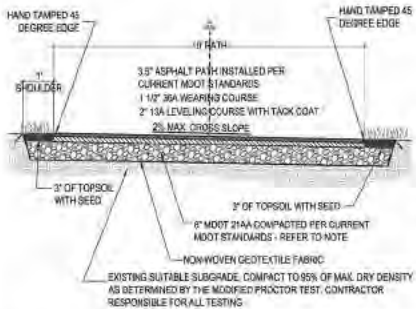


1 SILT FENCE
NOT TO SCALE

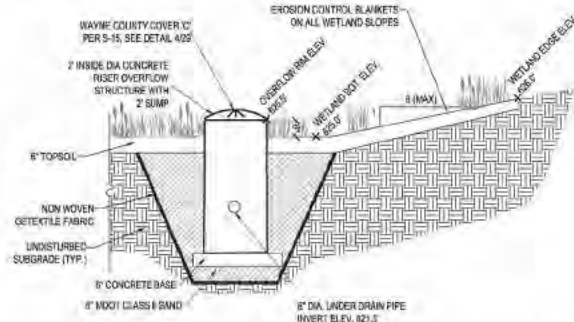


2 ASPHALT PATH
NOT TO SCALE

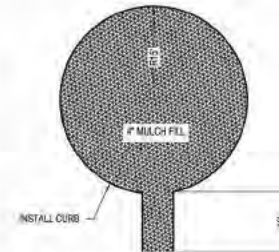
- NOTES:
1. ASPHALT PATH INSTALLED PER CURRENT MDOT STANDARDS
 2. LEVELING AND WEARING COURSES SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DENSITY AT THE OPTIMUM ASPHALT CONTENT AS DETERMINED BY THE MARSHALL TEST.
 3. AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM UNIT WEIGHT.
 4. EDGE OF ASPHALT SHALL BE HAND TAMPED TO 45 DEGREE.
 5. PATH MUST BE CONSTRUCTED SO THAT POSITIVE DRAINAGE AWAY FROM PATH IS ACHIEVED SUCH THAT WATER DOES NOT COLLECT ON THE PATH SURFACE AFTER CONSTRUCTION.
 6. UNSUITABLE SOILS, SUCH AS SILT OR CLAY, TOPSOIL, MARL, SILT OR OTHER UNSUITABLE MATERIALS SHALL BE UNDERCUT AND REPLACED WITH COMPACTED SAND SUBGRADE FILL WHERE INCIDENTAL TO ROUTING GRADING.
 7. EXISTING GRAVEL MATERIAL MAY BE RE-USED AND SWEETENED WITH PROPOSED BASE AGGREGATE, IF SUITABLE AND APPROVED BY ENGINEER.
 8. CROSS SLOPE DIRECTION VARIES. SEE PLANS FOR DIRECTION OF SLOPE.
 9. SHOULDERS TO MATCH CROSS SLOPE OF ASPHALT PATH.
 10. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.
 11. NO UTILITY SURFACE COVERS (PLATES, MANHOLES (E.G. WASTEWATER VALVE COVERS), ETC.) SHALL BE LOCATED WITHIN TRAIL AND SHALL BE MINIMUM 2 FEET FROM THE EDGE OF TRAIL.
 12. DO NOT DISTURB EXISTING WETLANDS.



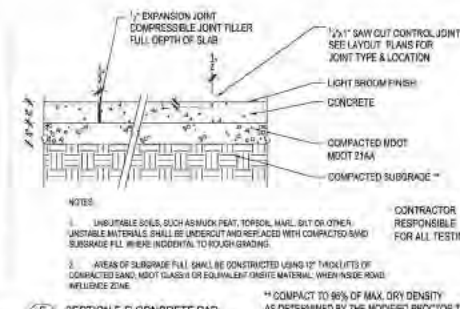
3 ASPHALT RAMP
NOT TO SCALE



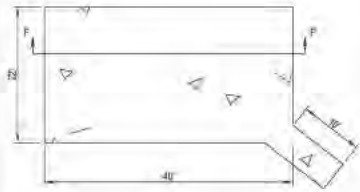
4 WETLAND OVERFLOW STRUCTURE
NOT TO SCALE



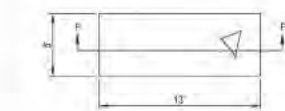
5 WORKOUT STATION (TYPICAL)
1" = 10"



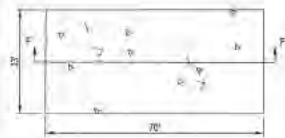
- NOTES:
1. UNSUITABLE SOILS, SUCH AS SILT OR CLAY, TOPSOIL, MARL, SILT OR OTHER UNSUITABLE MATERIALS SHALL BE UNDERCUT AND REPLACED WITH COMPACTED SAND SUBGRADE FILL WHERE INCIDENTAL TO ROUTING GRADING.
 2. AREA OF SUBGRADE FILL SHALL BE CONSTRUCTED USING 1/2 INCH THICK LIFTS OF COMPACTED SAND, MDOT CLASS 01 OR EQUIVALENT INERTIVE MATERIAL, WHEN INSIDE ROAD INFLUENCE ZONE.
 3. COMPACT TO 95% OF MAX. DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST.
- CONTRACTOR RESPONSIBLE FOR ALL TESTING



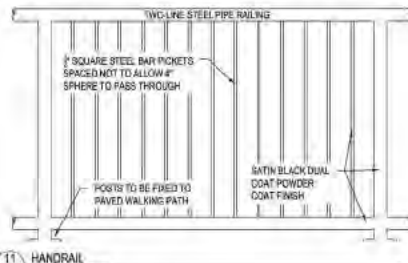
7 CONCRETE PAD - SHELTER
1" = 10"



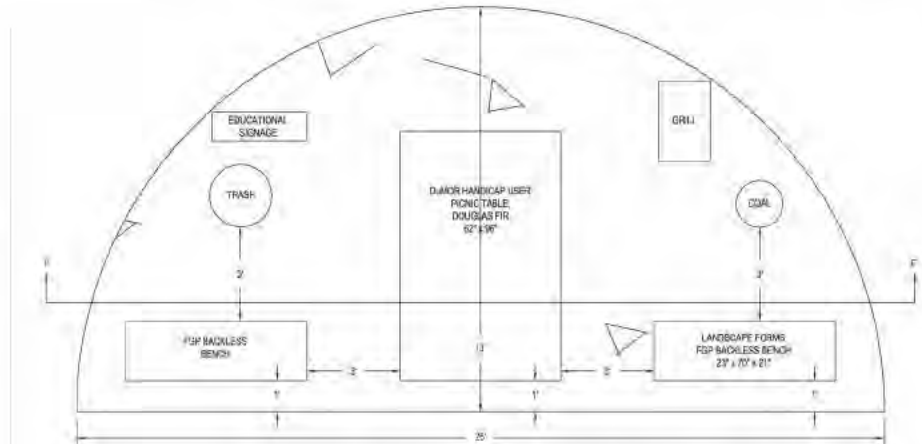
8 CONCRETE PAD - INFORMATIONAL SIGNAGE (TYPICAL)
1" = 5"



9 CONCRETE PAD - WELCOME CENTER
1" = 20"



10 HANDRAIL
NOT TO SCALE



11 CONCRETE PAD - PICNIC AREA (TYPICAL)
1" = 2"

ROUGE RIVER WATERSHED
AOC-
WAYNE COUNTY
HABITAT
RESTORATION

VENOY DORSEY PARK WETLAND
AND FISH
HABITAT
STRUCTURES
PROJECT

ALLIANCE OF ROUGE
COMMUNITIES
WAYNE COUNTY,
MICHIGAN

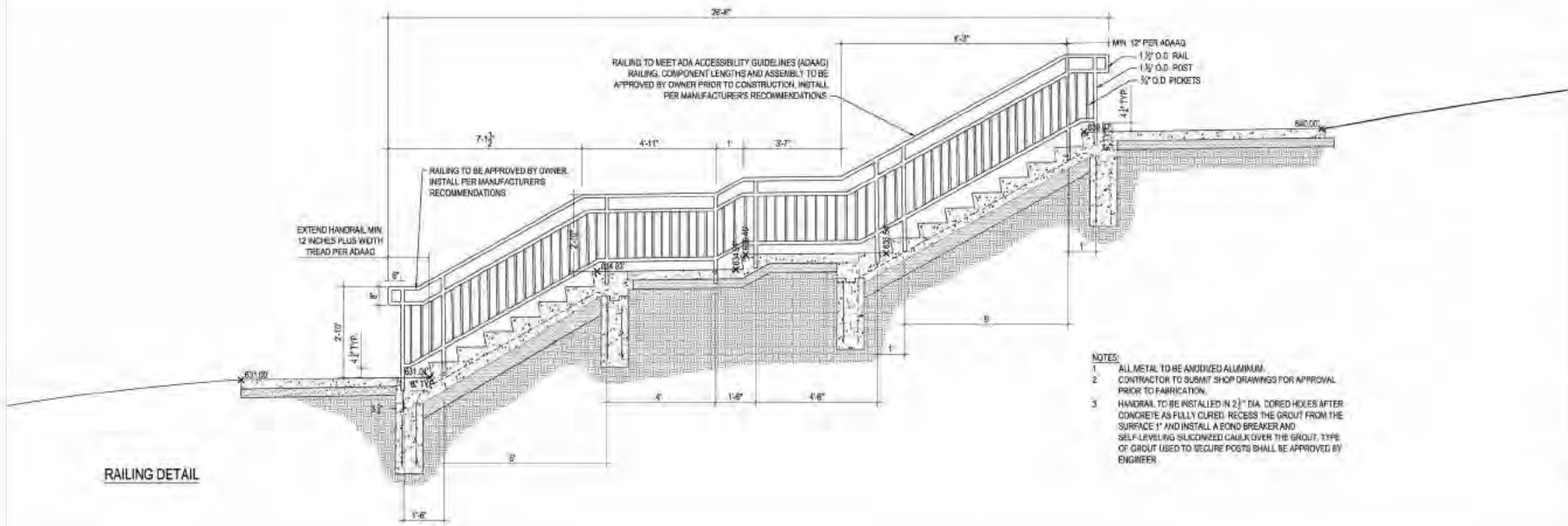
FOR BIDDING: 12/2024
AGENCY REVIEW: 05/2025
CONTRACT AGENCY REVIEW: 05/2025

ECT PROJECT NUMBER: 24-001
DESIGNED BY: [Signature]
DRAWN BY: [Signature]
APPROVED BY: [Signature]

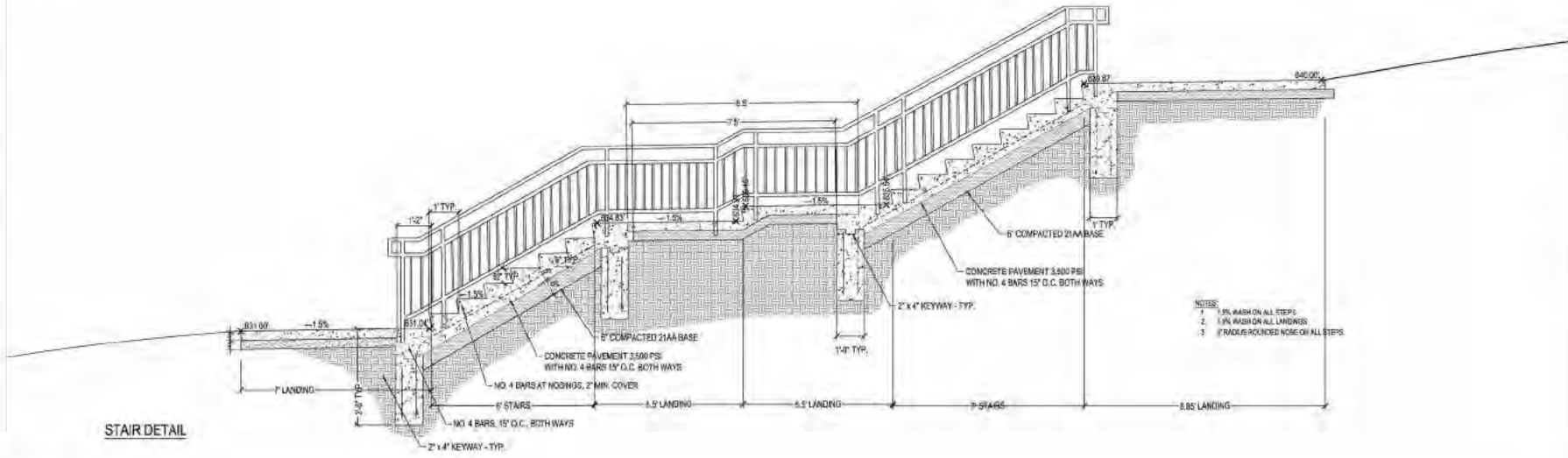
SHEET TITLE

DETAILS -
GENERAL

SCALE: "AS SHOWN"



RAILING DETAIL



STAIR DETAIL

STAIR AND RAILING DETAIL
NOT TO SCALE

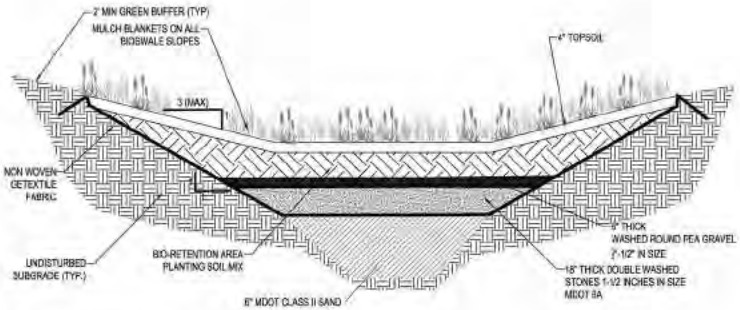
ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENOU DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

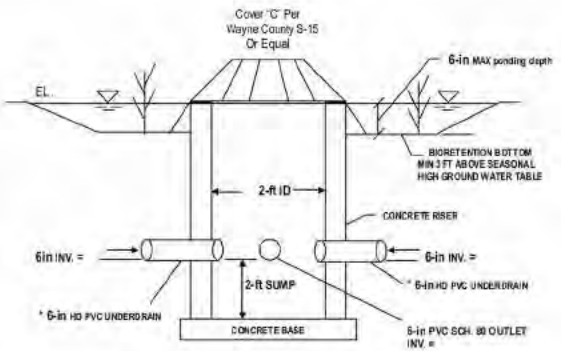
ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

FOR BIDDING	10/2021
AGENCY REVIEW	10/2021
RELEASE/COM/PERM. APP.	10/2021
DATE	2011-10-20
DESIGNED BY	AND
CHECKED BY	AND
DESIGNED BY	AND
CHECKED BY	AND

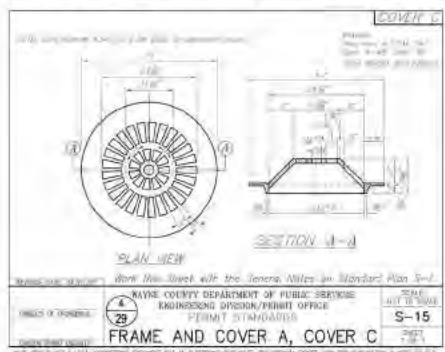
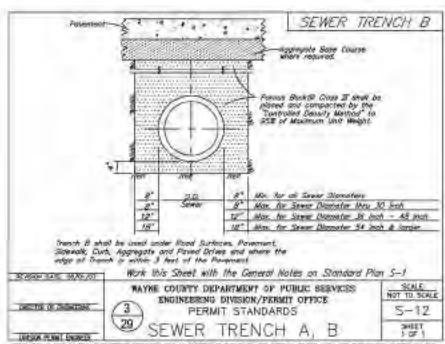
SHEET TITLE
DETAILS - STAIRS



1 BI-RETENTION POND TYP.
NOT TO SCALE



2 TYPICAL BI-RETENTION OVERFLOW STRUCTURE
NOT TO SCALE



4 FRAME AND COVER A, COVER C
NOT TO SCALE

Bioretention Catchment - Biowale 1			
	Area (sf)	C	AcC
Permeable	0.19	0.95	0.18
Impermeable	0.05	0.25	0.01
Total	0.24		0.19

Flow =	0.06 imp		
Area =	0.21 Area		
Flow =	0.06 imp		
Permeable	0.04		
Impermeable	0.02		
Total	0.06		

Bioretention	Elev.	Area (sf)	Volume (cf)	Total Volume (cf)
Flowing Storage	625.4	0	0	0
Storage	625.0	141	411.09	411.1
Total	625.0	141	411.09	411.1

Bioretention Catchment - Biowale 4			
	Area (sf)	C	AcC
Permeable	0.14	0.95	0.13
Impermeable	0.07	0.25	0.02
Total	0.21		0.15

Flow =	0.02 imp		
Area =	0.17 Area		
Flow =	0.02 imp		
Permeable	0.01		
Impermeable	0.01		
Total	0.02		

Bioretention	Elev.	Area (sf)	Volume (cf)	Total Volume (cf)
Flowing Storage	625.0	0	0	0
Storage	624.5	141	411.09	411.1
Total	624.5	141	411.09	411.1

Bioretention Catchment - Biowale 2			
	Area (sf)	C	AcC
Permeable	0.27	0.95	0.26
Impermeable	0.09	0.25	0.03
Total	0.36		0.29

Flow =	0.09 imp		
Area =	0.30 Area		
Flow =	0.09 imp		
Permeable	0.05		
Impermeable	0.04		
Total	0.09		

Bioretention	Elev.	Area (sf)	Volume (cf)	Total Volume (cf)
Flowing Storage	625.1	0	0	0
Storage	624.6	141	411.09	411.1
Total	624.6	141	411.09	411.1

Bioretention Catchment - Biowale 5			
	Area (sf)	C	AcC
Permeable	0.49	0.95	0.46
Impermeable	0.21	0.25	0.05
Total	0.70		0.52

Flow =	0.29 imp		
Area =	0.70 Area		
Flow =	0.29 imp		
Permeable	0.16		
Impermeable	0.13		
Total	0.29		

Bioretention	Elev.	Area (sf)	Volume (cf)	Total Volume (cf)
Flowing Storage	624.5	0	0	0
Storage	624.0	141	411.09	411.1
Total	624.0	141	411.09	411.1

Bioretention Catchment - Biowale 3			
	Area (sf)	C	AcC
Permeable	0.14	0.95	0.13
Impermeable	0.05	0.25	0.01
Total	0.19		0.14

Flow =	0.04 imp		
Area =	0.16 Area		
Flow =	0.04 imp		
Permeable	0.02		
Impermeable	0.02		
Total	0.04		

Bioretention	Elev.	Area (sf)	Volume (cf)	Total Volume (cf)
Flowing Storage	625.4	0	0	0
Storage	625.0	141	411.09	411.1
Total	625.0	141	411.09	411.1

Bioretention Catchment - Biowale 6			
	Area (sf)	C	AcC
Permeable	0.52	0.95	0.50
Impermeable	0.09	0.25	0.03
Total	0.61		0.53

Flow =	0.05 imp		
Area =	0.37 Area		
Flow =	0.05 imp		
Permeable	0.03		
Impermeable	0.02		
Total	0.05		

Bioretention	Elev.	Area (sf)	Volume (cf)	Total Volume (cf)
Flowing Storage	624.0	0	0	0
Storage	623.5	141	411.09	411.1
Total	623.5	141	411.09	411.1

ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION

ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

ALLIANCE of Rouge Communities

WAYS TO PROTECT

Wayne County **parks**

ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENJO DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES

WAYNE COUNTY, MICHIGAN

FOR REVIEW: 10.2021

AGENCY REVIEW: 10.2021

ISSUANCE/AMT PERMIT APP: 10.2021

2024

ECT PROJECT NUMBER: 102021

DESIGNED BY: AND CHECKED BY:

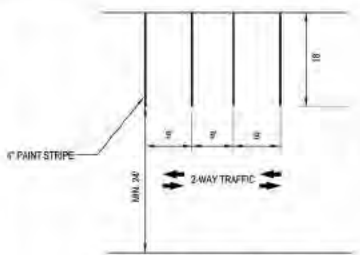
DRAWN BY: AND APPROVED BY:

SHEET TITLE: **DETAILS - BI-RETENTION**

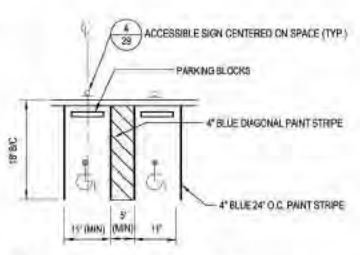
SCALE: "AS SHOWN"

NORTH

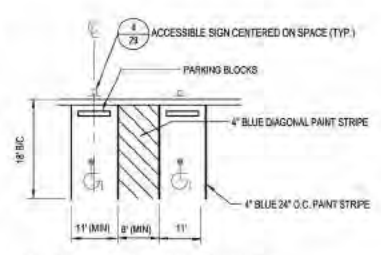
29



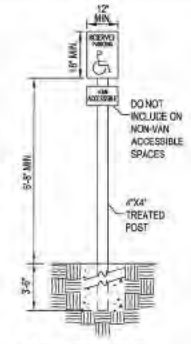
1 TYPICAL PARKING SPACE DETAIL
30 NOT TO SCALE



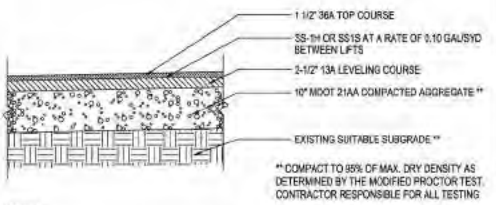
2 TYPICAL ACCESSIBLE PARKING DETAIL
30 NOT TO SCALE



3 TYPICAL VAN-ACCESSIBLE PARKING DETAIL
30 NOT TO SCALE

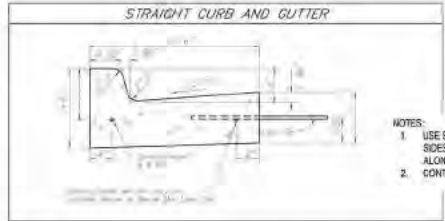


4 ACCESSIBLE SIGN
30 NOT TO SCALE



NOTES:
1. UNSUITABLE SOILS, SUCH AS MUCK PEAT, TOPSOIL, MARL, SILT OR OTHER UNSTABLE MATERIALS, SHALL BE UNDERCUT AND REPLACED WITH COMPACTED SAND SUBGRADE FILL WHERE INCIDENTAL TO ROUGH GRADING.
2. AREAS OF SUBGRADE FILL SHALL BE CONSTRUCTED USING 12\"/>

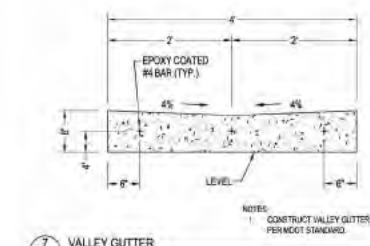
5 ASPHALT PAVEMENT DETAIL
30 NOT TO SCALE



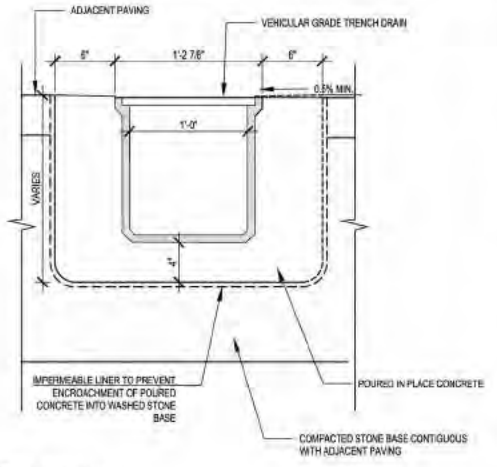
NOTES:
1. USE SPILL OUT GUTTER FOR NORTH AND WEST SIDES OF THE PARKING LOT. USE STANDARD ALONG THE EAST SIDE OF THE PARKING LOT.
2. CONTRACTOR RESPONSIBLE FOR ALL TESTING



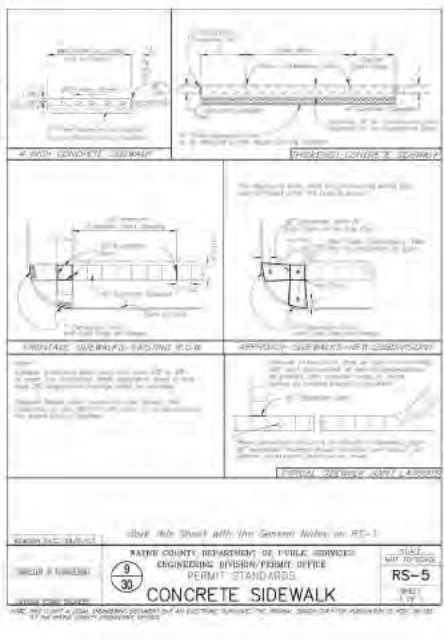
6 CURB AND CURB & GUTTER DETAILS
30 NOT TO SCALE



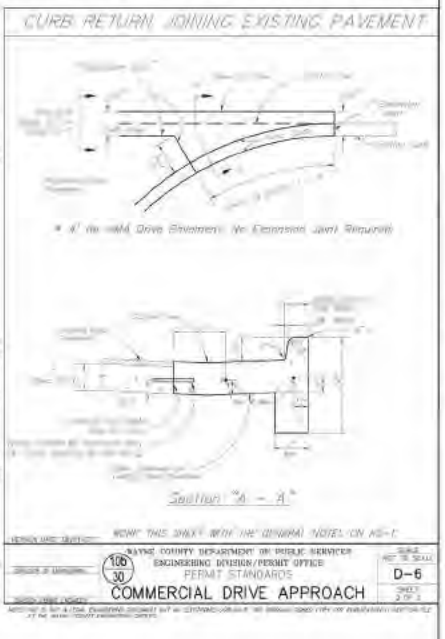
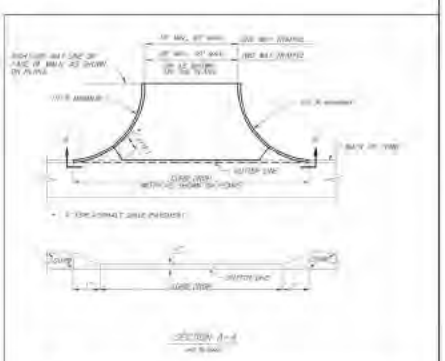
7 VALLEY GUTTER
30 NOT TO SCALE



8 TRENCH DRAIN
30 NOT TO SCALE



9 CONCRETE SIDEWALK
30 NOT TO SCALE



10 COMMERCIAL DRIVE APPROACH
30 NOT TO SCALE

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Great Lakes RESTORATION
Alliance of Rouge Communities
Wayne County parks

ROUGE RIVER WATERSHED AOC- WAYNE COUNTY HABITAT RESTORATION

VENJO DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

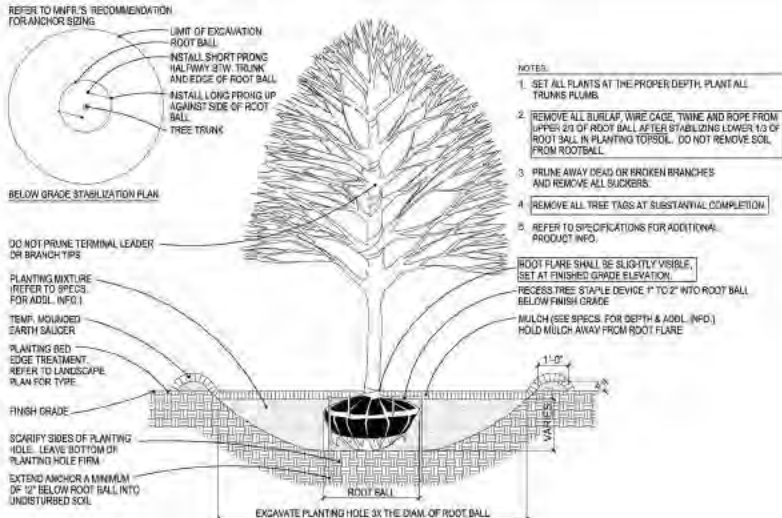
FOR REVIEW: 12-2011
AGENCY REVIEW: 06-2011
CLEARANCE/COMMIT APP: 02-2011

2013-04
EIT PROJECT NUMBER: 100-30
DESIGNED BY: []
CHECKED BY: []
DRAWN BY: []
APPROVED BY: []

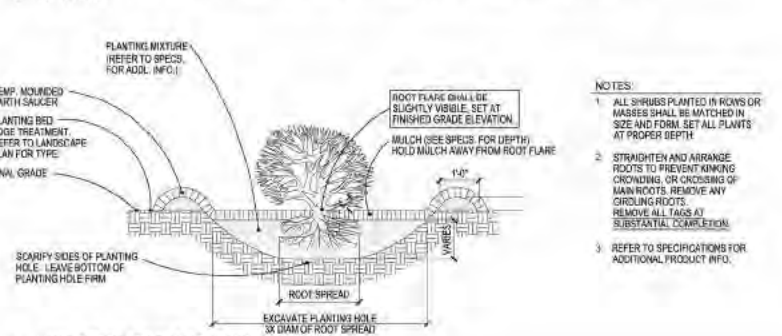
SHEET TITLE:
DETAILS - PARKING

SCALE: "VARIES"

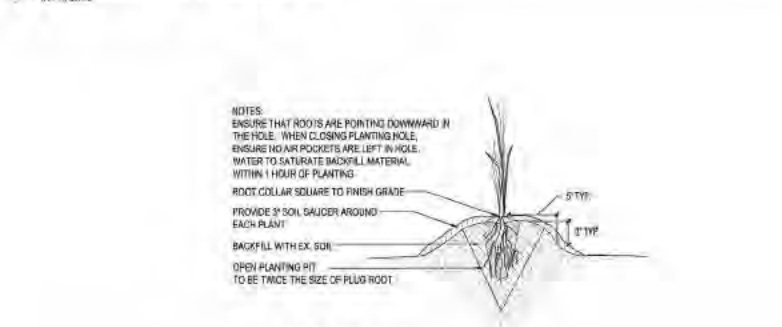
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SHEET NUMBER: **30**



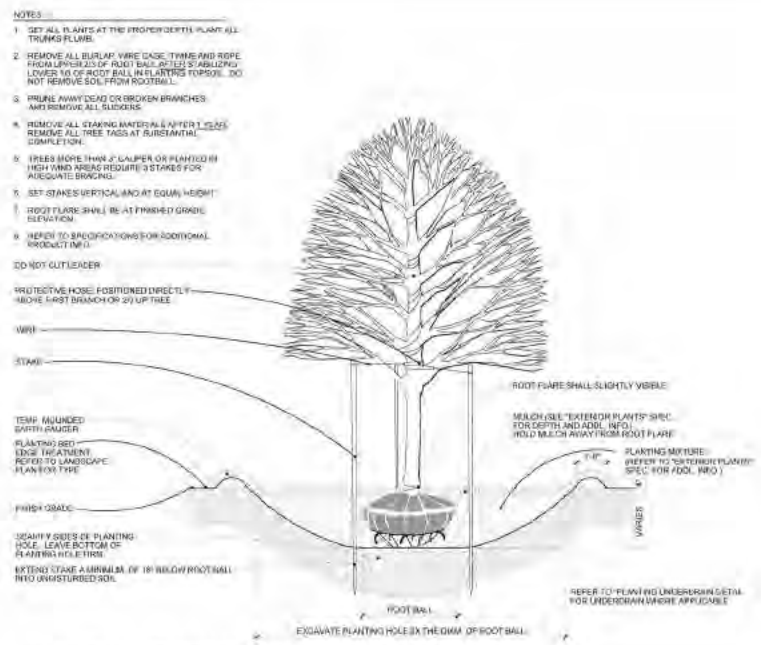
1 WAYNE COUNTY DECIDUOUS TREE PLANTING WITH BELOW GRADE STABILIZATION - B&B



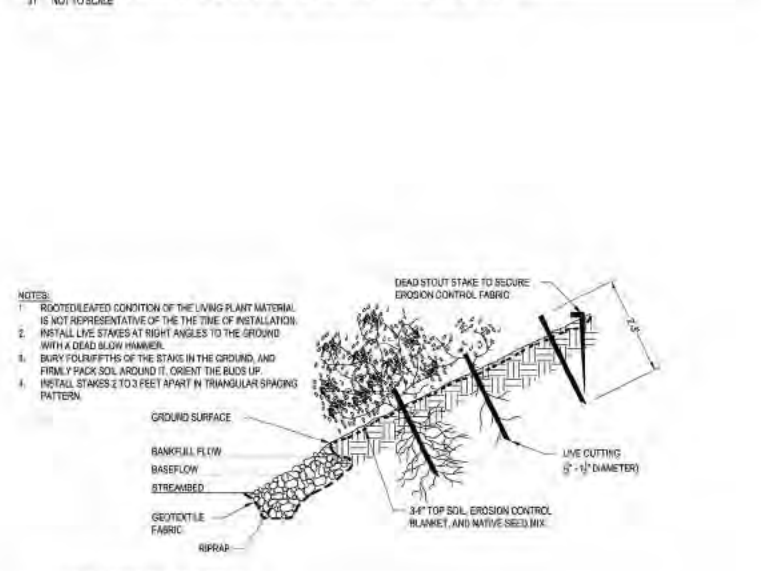
2 WAYNE COUNTY SHRUB PLANTING DETAIL



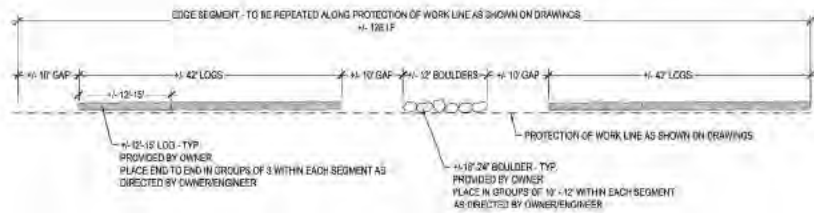
3 PLUG PLANTING



4 WAYNE COUNTY DECIDUOUS TREE PLANTING WITH TREE STAKES

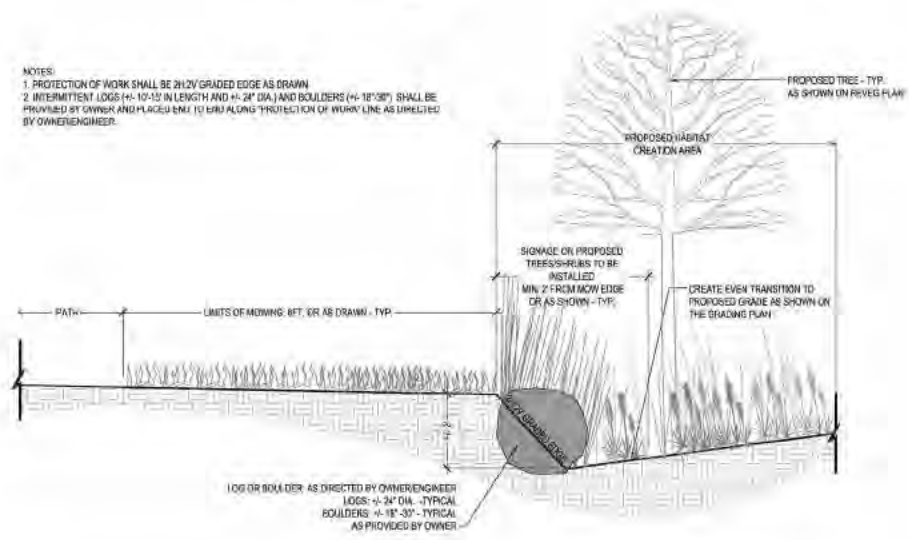


5 LIVE STAKE INSTALLATION



PLAN VIEW

- NOTES:
1. PROTECTION OF WORK SHALL BE 2H:2V GRADED EDGE AS DRAWN
 2. INTERMITTENT LOGS (± 12'-15' IN LENGTH AND ± 24" DIA.) AND BOULDERS (± 18"±30") SHALL BE PROVIDED BY OWNER AND PLACED ENL TO END ALONG PROTECTION OF WORK LINE AS DIRECTED BY OWNER/ENGINEER.



SECTION VIEW

1 PROTECTION OF WORK DETAIL

NOT TO SCALE

REVEGETATION NOTES

MAINTENANCE AND WARRANTY PERIOD

1. MAINTENANCE PERIOD: ENSURE THAT ALL TREES, SHRUBS, SEEDING, AND HERBACEOUS PLANTS INSTALLED UNDER THIS CONTRACT WILL BE HEALTHY AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR TWO (2) FULL GROWING SEASONS (MAY THROUGH OCTOBER) FROM DATE OF PLANTING/INSTALLATION ACCEPTANCE. THE CONTRACTOR SHALL RESPOND WITHIN TWO (2) WEEKS OF WRITTEN REQUESTS BY THE OWNER FOR REPLACEMENT OR REPAIR. IF THE CONTRACTOR FAILS TO RESPOND WITHIN THIS TIME, THE OWNER MAY PROCEED WITH REPLACEMENT WORK AND BILL THE CONTRACTOR.
2. WARRANTY PERIOD: ENSURE THAT ALL TREES, SHRUBS, SEEDING, AND HERBACEOUS PLANTS INSTALLED UNDER THIS CONTRACT WILL BE HEALTHY AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR ONE (1) FULL GROWING SEASON (MAY THROUGH OCTOBER) FROM DATE OF MAINTENANCE PERIOD ACCEPTANCE. THE CONTRACTOR SHALL RESPOND WITHIN TWO (2) WEEKS OF WRITTEN REQUESTS BY THE OWNER FOR REPLACEMENT OR REPAIR. IF THE CONTRACTOR FAILS TO RESPOND WITHIN THIS TIME, THE OWNER MAY PROCEED WITH REPLACEMENT WORK AND BILL THE CONTRACTOR.
3. ALL DELAYS IN COMPLETION OF PLANTING OPERATIONS WHICH EXTEND THE PLANTING INTO MORE THAN ONE PLANTING SEASON SHALL EXTEND THE WARRANTY PERIOD CORRESPONDINGLY.
4. REPLACEMENTS: AS SOON AS WEATHER CONDITIONS PERMIT, REPLACE, WITHOUT COST TO OWNER, ALL DEAD PLANTS AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE ENGINEER DURING AND AT THE END OF THE MAINTENANCE AND WARRANTY PERIODS.
5. PATCHY OR BARE AREAS (IN EXCESS OF 8 SQUARE FEET) WHERE SEED MIX FAILED TO CREATE SUFFICIENT DENSITY OF COVER SHALL BE RESEED BY HAND AT THE RECOMMENDED APPLICATION RATE AT NO ADDITIONAL COST TO OWNER.
6. INCORRECT MATERIALS: DURING WARRANTY PERIOD, REPLACE AT NO COST TO OWNER ALL PLANTS REVEALED AS BEING UNTRUE TO NAME. PROVIDE REPLACEMENTS OF A SIZE AND QUALITY TO MATCH THE PLANTED MATERIALS AT THE TIME THE MISTAKE IS DISCOVERED.
7. ALL PLANT STOCK SHALL BE WATERED BY THE CONTRACTOR TO ENSURE THE HEALTH AND VIGOR OF THE PLANTED MATERIALS. THE CONTRACTOR SHALL WATER AS NEEDED BASED ON NATURAL RAINFALL DURING THE MAINTENANCE AND WARRANTY PERIODS. WATERING SHALL CONTINUE SO SEEDLINGS DO NOT DRY OUT ONCE WATERING HAS BEGUN. THE WATERING SHALL BE DONE FROM SURFACE METHODS AT A PRESSURE NOT TO EXCEED THE INFILTRATION RATE OF THE SOIL, LIMITING RUNOFF DURING THE WATERING PERIOD. EACH AREA WILL BE WATERED WITH SUFFICIENT WATER TO COMPLETELY SATURATE THE ROOT ZONE. THE CONTRACTOR SHALL INSPECT ALL PLANTS FOR INSECT INFESTATION AND DAMAGE.
8. EROSION SHALL BE REPAIRED BY THE CONTRACTOR.
9. PROTECTION FROM TRAFFIC AND EROSION IN NEWLY SEEDING AREAS AND THE MITIGATION AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR. SAFETY FENCES AND/OR OTHER BARRIER METHODS WITH APPROPRIATE SIGNAGE MAY BE USED FOR ONE YEAR FROM COMPLETION OF CONSTRUCTION ACTIVITIES. ALL COSTS ASSOCIATED WITH THIS IS INCLUSIVE OF CONTRACTORS PRICES.
10. NOTIFY THE OWNER PRIOR TO AND FOLLOWING ANY MAINTENANCE ACTIVITY.
11. FINAL ACCEPTANCE OF WORK WILL BE SUBJECT TO ACCEPTANCE BY PROJECT MANAGER AND OWNER AT THE END OF WARRANTY PERIOD.

NATIVE PLANTINGS:

1. ALL PLANTS SHALL BE OF NATIVE PLANT MATERIAL OF GENOTYPES FROM THE NORTH CENTRAL STATES ONLY (IL, IN, IA, MI, OH), AND FROM A RECOGNIZED NURSERY OF THIS REGION. MICHIGAN SOURCES FOR SHRUBS, AND PLUGS SHALL BE LOCATED BEFORE BRANCHING OUT TO OTHER NORTH CENTRAL STATES. NATIVE PLANTINGS INCLUDE ALL SHRUBS AND PLUGS INSTALLED AS PART OF THIS PROJECT.
2. PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND MUST MEET APPLICABLE REQUIREMENTS OF ICRN AND ICRPC. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. PLANTS SHALL BE FREE OF DISEASE, INSECT PESTS, EXOS, OR LARVAE. PLANTS SHALL BE FREE OF WOUNDS, GIRDLING OR GROUND TRUNK SURFACE AND CENTER ROOTS AND SHALL NOT BE ROOT BOUND. INSPECT MAXIMUM STORAGE TIMES FOR PLANT STOCK.
3. NATIVE PLANTING AREAS SHALL BE INSTALLED AFTER MAY 15 (WHEN SOIL IS FREE OF FROST AND IN WORKABLE CONDITION), BUT BEFORE JUNE 30 OR AFTER SEPT. 1 BUT BEFORE OCTOBER 30 OR AS APPROVED BY THE LANDSCAPE ARCHITECT.
4. FURNISH PLANT SPECIES AND SIZES AS INDICATED ON THE PLANS. PLANT STOCK SHALL BE TRUE TO THEIR NAME (GENUS AND SPECIES), AS SPECIFIED. CULTIVARS AND SPECIMENS SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY LANDSCAPE ARCHITECT.
5. NATIVE PLANTINGS TO BE INSTALLED PER DETAILS.
6. REMOVE ALL CONTAINERS, TIES AND PACKAGING MATERIAL AND DISPOSE OF LEGALLY OFF-SITE.
7. WATER PLANT STOCK IMMEDIATELY AFTER PLANTING SUCH THAT ROOT ZONE IS THOROUGHLY MOIST. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP PLUGS ADEQUATELY WATERED, IF NECESSARY TO ENSURE THEIR SURVIVAL.
8. IF EROSION CONTROL BLANKET IS REQUIRED IN AREAS WHERE PLUGS ARE PRESENT, INSTALL EROSION CONTROL BLANKET AFTER SEEDING, BUT PRIOR TO PLANTING. EROSION CONTROL BLANKET SHALL BE INSTALLED WHERE THE CONTRACTOR FEELS IT NECESSARY TO STABILIZE THE SITE AT NO ADDITIONAL COST TO THE OWNER.
9. MULCH FOR TREES AND SHRUBS SHALL BE NATURAL DOUBLE SHREDDED HARDWOOD.

SEEDING:

1. SEED SHALL BE FRESH, CLEAN, NEW SEED OF NATIVE PLANT MATERIAL OF GENOTYPES FROM THE NORTH CENTRAL STATES ONLY (IL, IN, IA, MI, OH), AND FROM A RECOGNIZED NURSERY OF THIS REGION - REFER TO SPECIFICATION 10293.
2. NATIVE SEED AREAS SHALL BE SEEDS AFTER MAY 1, (WHEN SOIL IS FREE OF FROST AND IN WORKABLE CONDITION), BUT BEFORE JUNE 30 OR AFTER OCTOBER 1, BUT BEFORE NOVEMBER 30 (OR PRIOR TO FREEZE-UP) OR AS APPROVED BY THE LANDSCAPE ARCHITECT.
3. SEEDING PREPARATION: CUT ANY EXISTING VEGETATION TO 4" FOUR INCH HEIGHT AND APPLY HERBICIDE AS NECESSARY, REFER TO SPECIFICATIONS. PRIOR TO SOWING NATIVE SEED, LIGHTLY SCARIFY SO THAT THE BED IS SMOOTH AND FREE OF LARGE CLUMPS. SEED BED SHALL BE FIRM, BUT NOT COMPACT. SEED IMMEDIATELY AFTER SCARIFYING AND ENSURE GOOD SOIL TO SEED CONTACT. DO NOT FERTILIZE.
4. DO NOT SOW SEED WHERE STANDING WATER IS PRESENT.
5. SOW NATIVE SEED AT A SPECIES RATE OF POUNDS PER ACRE INDICATED ON THE DRAWING AND PER SUPPLIER'S RECOMMENDATIONS. LIGHTLY RAKE TO INCORPORATE SEED INTO SOIL. DO NOT COVER SEED MORE THAN 1/4 INCH WITH SOIL.
6. CONTRACTOR SHALL REPAIR DAMAGED VEGETATION AND AERATE SOIL OVER ROOT ZONE OF NEGATIVELY IMPACTED VEGETATION. RE-SEED ALL DISTURBED AREAS TO PRE-EXISTING CONDITIONS.

EXISTING SITE CONDITIONS:

1. CONTRACTOR SHALL BECOME FAMILIAR WITH ALL EXISTING SITE CONDITIONS PRIOR TO STARTING WORK.
2. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THE PERFORMANCE OF THE WORK IS REQUIRED WITHIN A RIVER SYSTEM AND FLOODPLAIN.
3. THE CONTRACTOR SHALL BE FULLY AWARE OF THE ROUGE RIVER HYDROLOGY AND CURRENT WEATHER CONDITIONS SO THAT WORK IN PROGRESS CAN BE SECURED AND PROTECTED, SO THAT ONE JOB SITE WORKING CONDITIONS ARE MAINTAINED, AND SO THAT SOIL EROSION IS MINIMIZED DURING AND FOLLOWING A RAIN EVENT.
4. ROUGE RIVER HAS A VERY SHORT RESPONSE TIME TO STORM RUNOFF.
5. THE CONTRACTOR ACKNOWLEDGES THAT DELAYS IN THE START OF OR COMPLETION OF WORK DUE TO TYPICAL SEASONAL RAINFALL AND DUE TO TYPICAL PERIODIC HIGH FLOWS IN THE ROUGE RIVER SHALL NOT CONSTITUTE A BASIS FOR ANY EXTENSION OF TIME OR DAMAGES. IF THE CONTRACTOR SHALL BE UNAVOIDABLY DELAYED IN BEGINNING OR FULFILLING THIS CONTRACT BY REASONS OF EXCESSIVE STORM OR FLOODS THE CONTRACTOR SHALL HAVE NO VALID CLAIM FOR DAMAGES, BUT THEY SHALL IN SUCH CASE BE ENTITLED TO AN EXTENSION OF TIME AS THE ENGINEER SHALL ADJUDGE TO BE JUST AND REASONABLE, PROVIDED THAT FORMAL CLAIM FOR AN EXTENSION OF TIME IS MADE IN WRITING BY THE CONTRACTOR WITHIN ONE YEAR OF THE ALLEGED DELAY.



ROUGE RIVER WATERSHED AOC-WAYNE COUNTY HABITAT RESTORATION

VENOY DORSEY PARK WETLAND AND FISH HABITAT STRUCTURES PROJECT

ALLIANCE OF ROUGE COMMUNITIES WAYNE COUNTY, MICHIGAN

FOR BIDDING	12-2023
AGENCY REVIEW	03-2024
CULMINANCE/JOINT PERMIT APP.	03-2024

100% ECT PROJECT NUMBER

DESIGNED BY: AAS CHECKED BY: AAS

DRAWN BY: JPC APPROVED BY: JPC

SHEET TITLE

DETAILS - REVEGETATION 2

SCALE: "1"=40'-0"

NORTH SHEET NUMBER

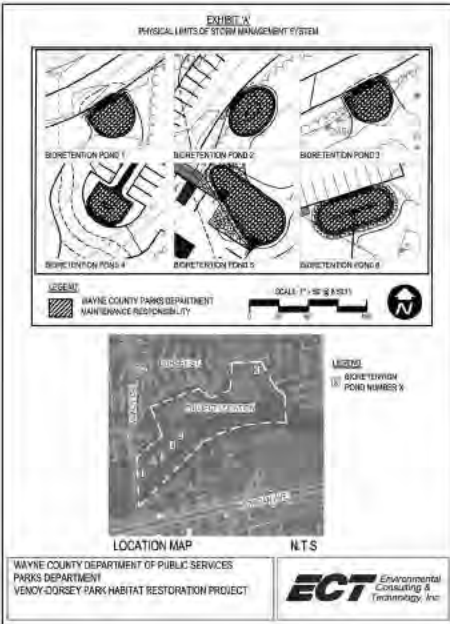


EXHIBIT B:

STORM WATER MANAGEMENT SYSTEM LONG-TERM MAINTENANCE SCHEDULE

PROPERTY IDENTIFICATION: Veno Dorsey Park
42-28404, -83-96307
Wayne, MI 48186

PROPERTY OWNER: Wayne County Department of Public Services Parks Department
331 75 Am Arden Trail
Westland, MI 48185
Contact: Mr. John Gundry
734-466-4504

A. PHYSICAL LIMITS OF THE STORM WATER MANAGEMENT SYSTEM

The storm water management system (SWMS) subject to this Long-Term Maintenance Plan (Plan) is depicted on Exhibit A to the Permit and includes without limitation bioretention area, overflow structures and outlet.

For purposes of this Plan, this storm water management system and all of its components as shown in Exhibit A is referred to as "Veno Dorsey Park Parking Lot SWMS".

B. TIME FRAME FOR LONG-TERM MAINTENANCE RESPONSIBILITY

Wayne County Department of Public Services Parks Department has assumed responsibility for maintaining the Veno Dorsey Park Parking Lot SWMS, including complying with applicable requirements until Wayne County releases the construction permit. Long-term maintenance responsibility for the Veno Dorsey Park Parking Lot SWMS commences when allowed by the maintenance permit issued by the Council. Long-Term Maintenance continues in perpetuity.

C. MANNER OF ENSURING MAINTENANCE RESPONSIBILITY

Wayne County Department of Public Services Parks Department has assumed responsibility for long-term maintenance of the Veno Dorsey Park Parking Lot SWMS. The resolution by which the Wayne County Department of Public Services Parks Department has assumed maintenance responsibility is attached to the permit as Exhibit C.

To ensure that Wayne County Department of Public Services Parks Department is maintained in perpetuity, the map of the physical limits of the storm water management system (Exhibit A) in this plan (Exhibit B), the resolution attached as Exhibit C, and the Maintenance Agreement by the Property Owner will be recorded with Wayne County Register of Deeds. Upon recording, a copy of the recorded document will be provided to the County.

D. LONG-TERM MAINTENANCE PLAN AND SCHEDULE

Maintenance activities to be performed include mowing invasive species, before they produce seed to prevent spread, on an as-needed basis; inspection for sediment/ debris accumulation and erosion, semi-annually; removal of sediment and debris, as needed; repair of erosion, as needed and seeding of paved surfaces, as needed. These activities will ensure that the storm water management system functions properly as designed. Chemicals will not be applied to the bioretentions and their buffer areas.

TABLE 1. STORMWATER MANAGEMENT SYSTEM LONG-TERM MAINTENANCE SCHEDULE

MAINTENANCE ACTIVITIES	SYSTEM COMPONENT		FREQUENCY
	BIORETENTION AREAS	OVERFLOW STRUCTURES / BUFFER AREAS	
MONITORING OR INSPECTION			
INSPECT FOR SEDIMENT ACCUMULATION / CLOGGING	X	X	ANNUALLY
INSPECT FOR FLOATABLE DEAD VEGETATION AND DEBRIS	X	X	ANNUALLY AND AFTER MAJOR STORM EVENTS
INSPECT FOR EROSION AND INTEGRITY OF BANKS AND BERMS	X		ANNUALLY AND AFTER MAJOR STORM EVENTS
INSPECT ALL COMPONENTS DURING WET WEATHER AND COMPARTE TO AS-BUILT PLANS	X	X	ANNUALLY PLANTINGS AFTER MAJOR STORM EVENTS
MONITOR PLANTING VEGETATION	X		2 TIMES A YEAR
ENSURE MEANS OF ACCESS FOR MAINTENANCE REMAINS CLEAR/OPEN	X	X	ANNUALLY
PREVENTATIVE MAINTENANCE AND REMEDIAL ACTIONS			
MOWING	X		UP TO 2 TIMES PER YEAR
REMOVE ACCUMULATED SEDIMENT	X	X	AS NEEDED
REMOVE FLOATABLES, DEAD VEGETATION AND DEBRIS	X	X	AS NEEDED
WEEDING OF INVASIVE PLANT SPECIES	X		EVERY MONTH
REPLACE LOW QUALITY, DRYING, OR DISEASED PLANTS	X		EVERY 6 MONTHS
REPLACING SOILS AND UNDERDRAINS AS NEEDED	X		EVERY 5 YEARS OR IF WATER ROUNDS 6 HOURS
FUTURE FERTILIZING AS NEEDED TO BE ORGANIC	X		SEASONAL
PRUNING, PINCHING, OR DEAD HEAD	X		EVERY SPRING
WATER PLANTINGS	X		AS NEEDED
MAKE ADJUSTMENTS/ REPAIRS TO ENSURE PROPER FUNCTIONING	X	X	AS NEEDED
STRUCTURAL REPAIRS	X		AS NEEDED
TEST SOILS FERTILITY	X		ANNUALLY