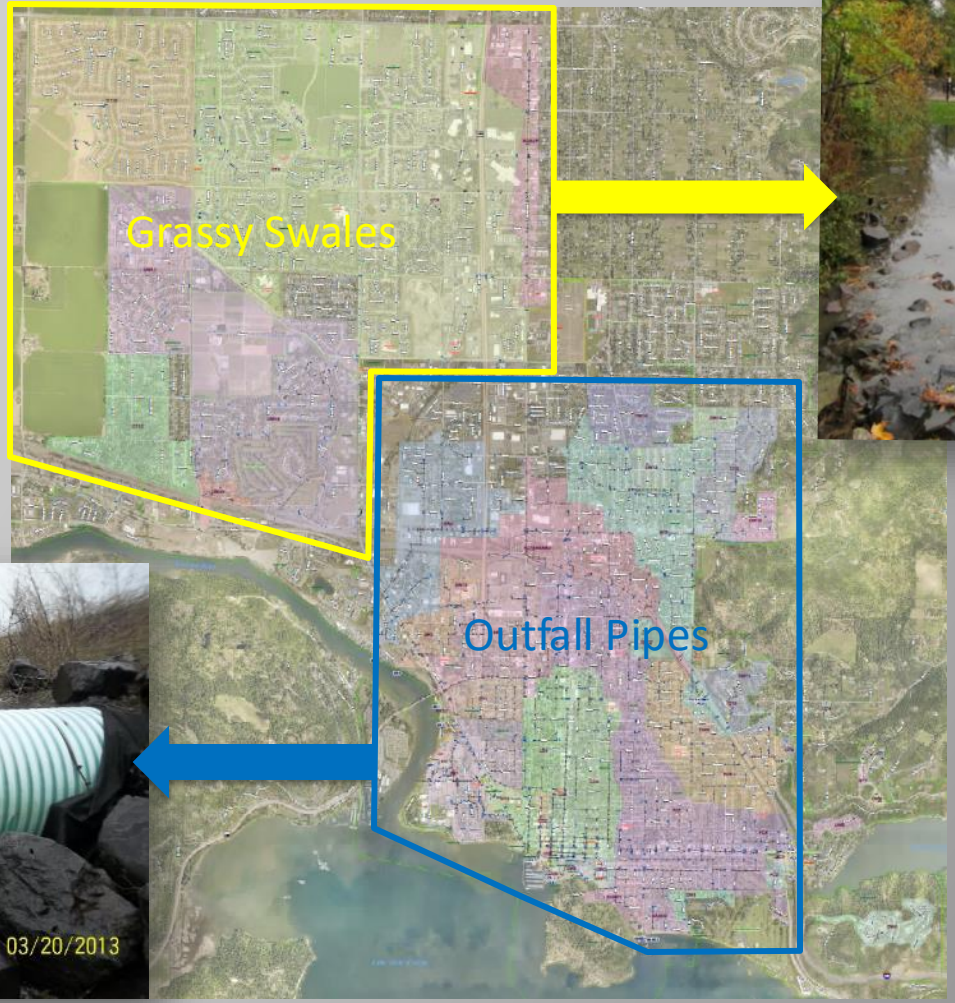
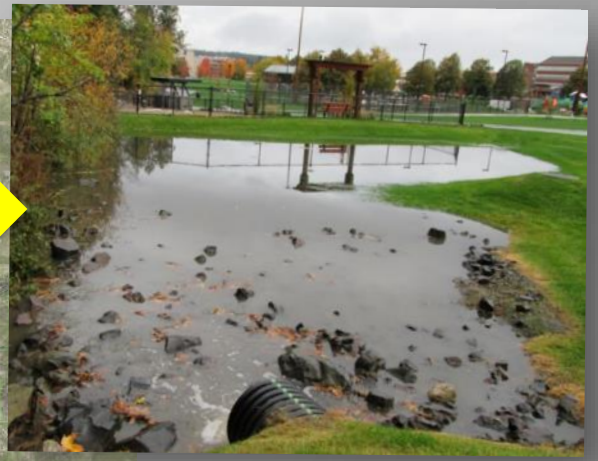
City of Coeur d'Alene
Stormwater Outfall Volume Reduction Program

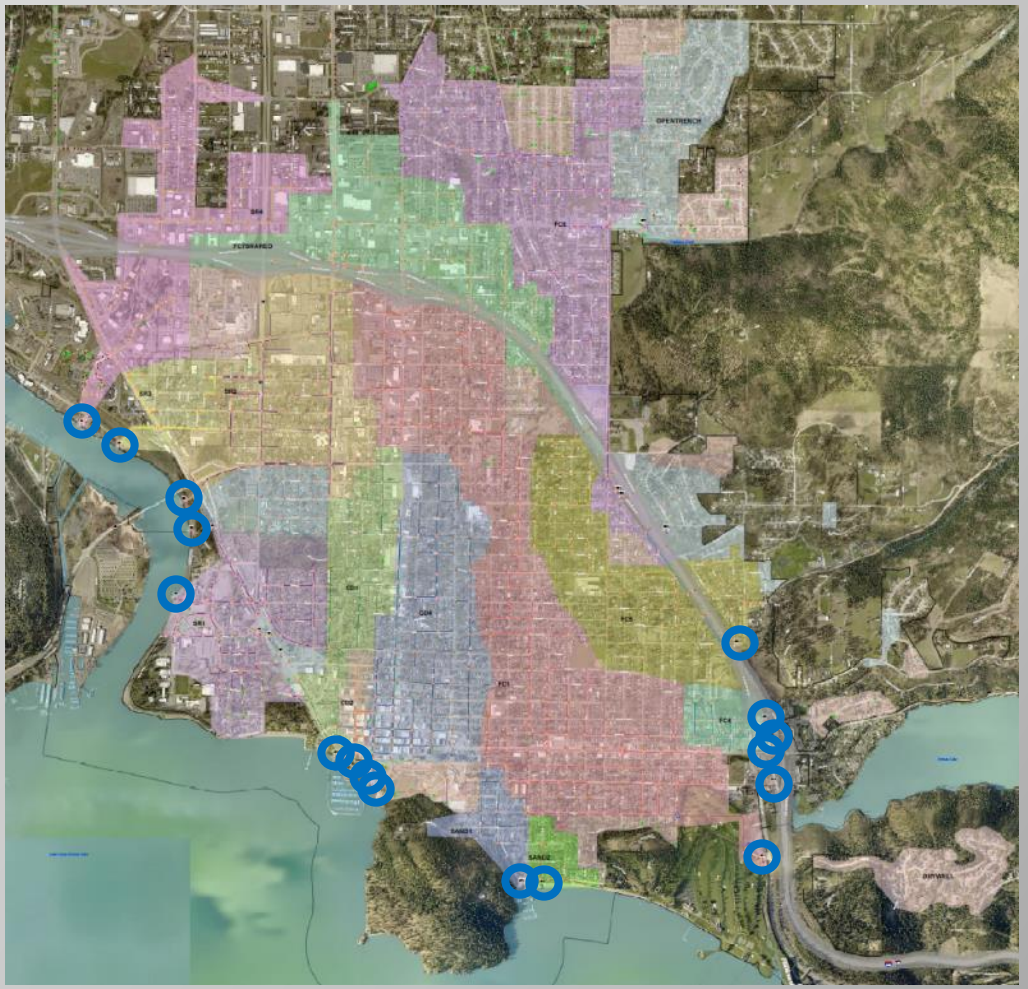
2025

City of Coeur d'Alene IDAHO





City of
Coeur d'Alene
IDAHO



Hard Piped Stormwater Basins and Outfall Locations

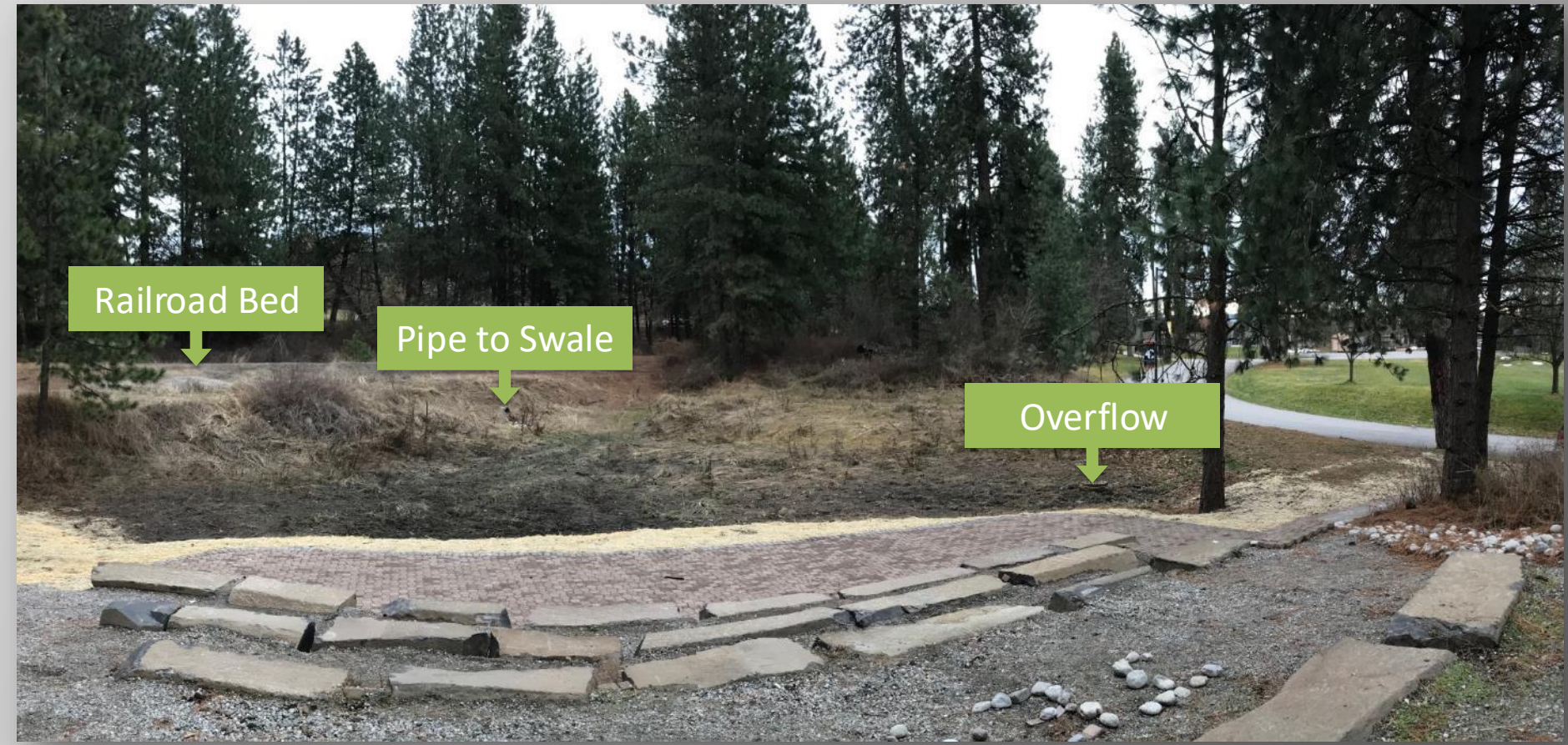
City of Coeur d'Alene IDAHO

Stormwater Outfall Volume Reduction Program

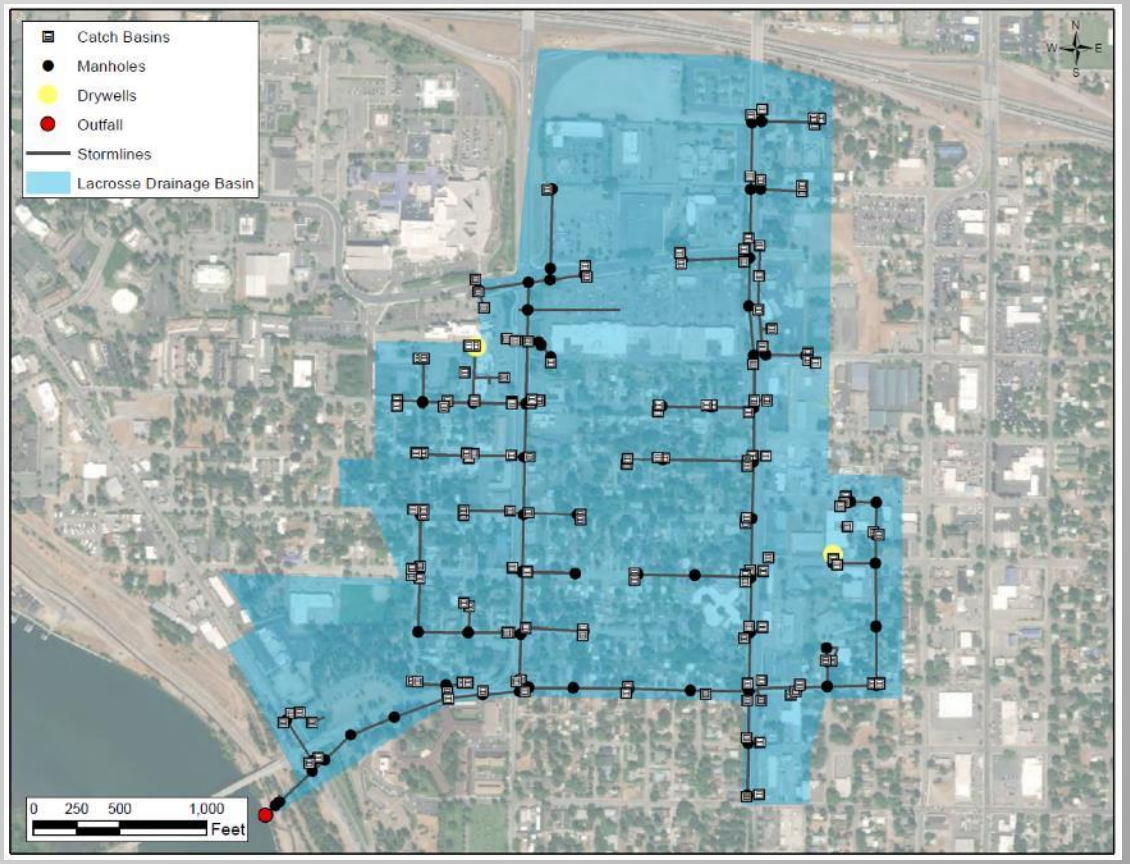
Outdoor Classroom Swale

16 Acres, 2018

City of Coeur d'Alene IDAHO


Railroad Bed
Pipe to Swale
Overflow

US-95/Northwest Boulevard Swale



210 Acres, 2020

City of Coeur d'Alene IDAHO


GARRET NANCOLAS
CITY ACHIEVEMENT AWARD
Presented to
CITY OF COEUR D'ALENE
Stormwater Outfall Volume Reduction Program
2021 AIC ANNUAL CONFERENCE
Creating Quality Cities


Innovation
Idea
Award
City of
Coeur d'Alene
Stormwater Pollution
Prevention
2021 Award


GREEN INFRASTRUCTURE: COMMUNITY SUPPORT | REGULATING PFAS
The Official Publication of StormCon
August 2021 | www.stormh2o.com
STORMWATER
The Journal for Surface Water and Erosion Control Professionals
Climate Resilient Design
8 steps to success
+
Outfall reduction in Idaho
Tips for managing pests and plants
Stormwater drainage in SoCal

Lacrosse Ave Swale

60 Acres, 2022

City of Coeur d'Alene IDAHO

Leading Idaho Initiative

Coeur d'Alene Lake Phosphorus Reduction Projects

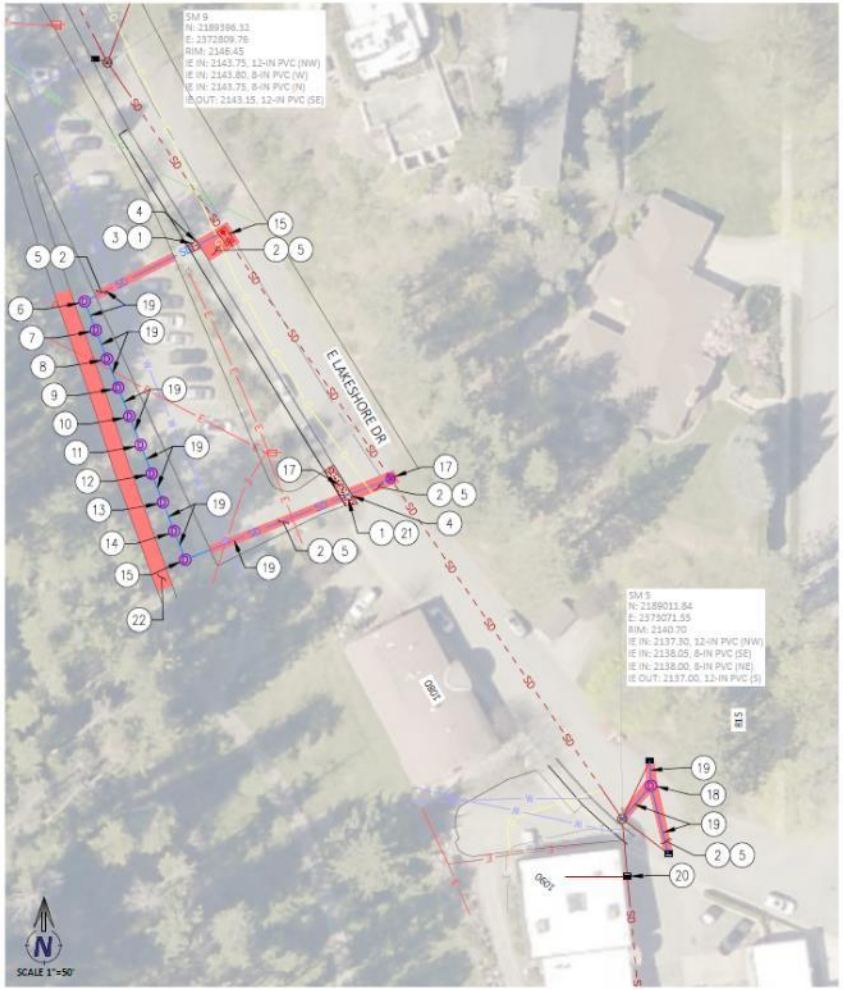
Project Ranking	Project Name	Applicant
1	City of Coeur d'Alene Stormwater Outfall Volume Reduction - Sanders Beach	City of Coeur d'Alene
2	City of Kellogg Sustainable Stormwater Improvements – Outfall to Bunker Creek	City of Kellogg
3	Coeur of d'Alene Stormwater Outfall Volume Reduction - Independence Point	City of Coeur d'Alene
4	City of Kellogg Sustainable Stormwater Improvements - North Kellogg Outfall	City of Kellogg
5	Northside Stormwater Drainage Improvements - Marmot Trail Road	East Side Highway District
6	Coeur d'Alene River Stabilization	Kootenai-Shoshone Soil and Water Conservation District (SWCD)
7	St. Joe River Reduction of Phosphate	Benewah SWCD
8	City of Coeur d'Alene Stormwater Outfall Volume Reduction - Mullan Ave	City of Coeur d'Alene
9	Mica Creek Watershed Agricultural Sediment Reduction and Improvement Project Phase 2	Kootenai-Shoshone SWCD
10	City of Kellogg Sustainable Stormwater Improvements - Hill Street Outfall	City of Kellogg
11	City of Plummer and Stimson Lumber Company Municipal Wastewater Reuse Project	City of Plummer

Sanders Beach/11th Street Marina Outfall

76 Acres, 2023

City of Coeur d'Alene IDAHO

City of
Coeur d'Alene
IDAHO



KEY NOTES:

1. REMOVAL OF CURB & SIDEWALK
2. REMOVAL OF ASPHALT
3. 4" SIDEWALK SEE DETAIL 1/12
4. 6" VERTICAL CURB (NO GUTTER) SEE DETAIL 4/12
5. PLANTMIX PAVEMENT REPLACEMENT SEE DETAIL 2/12
6. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
   N: 2189274.83
   E: 2372798.19
   RIM: 2147.35
   IE IN: 2141.04 (NE)
   IE OUT: 2141.04 (S)
7. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
   N: 2189260.25
   E: 2372803.88
   RIM: 2147.22
   IE IN: 2141.04 (N)
   IE OUT: 2141.04 (S)
8. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
   N: 2189245.67
   E: 2372809.57
   RIM: 2147.08
   IE IN: 2141.04 (N)
   IE OUT: 2141.04 (S)
9. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
   N: 2189231.09
   E: 2372815.26
   RIM: 2146.93
   IE IN: 2141.04 (N)
   IE OUT: 2141.04 (S)
10. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
    N: 2189216.51
    E: 2372820.94
    RIM: 2146.82
    IE IN: 2141.04 (N)
    IE OUT: 2141.04 (S)
11. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
    N: 2189201.93
    E: 2372826.63
    RIM: 2146.79
    IE IN: 2141.04 (N)
    IE OUT: 2141.04 (S)
12. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
    N: 2189187.35
    E: 2372832.32
    RIM: 2146.75
    IE IN: 2141.04 (N)
    IE OUT: 2141.04 (S)
13. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
    N: 2189172.77
    E: 2372838.01
    RIM: 2146.70
    IE IN: 2141.04 (N)
    IE OUT: 2141.04 (S)
14. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
    N: 2189158.19
    E: 2372843.69
    RIM: 2146.65
    IE IN: 2141.04 (N)
    IE OUT: 2141.04 (S)
15. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
    N: 2189143.61
    E: 2372849.38
    RIM: 2142.20
    IE IN: 2141.04 (N)
    IE OUT: 2141.04 (S)
16. INSTALL SEDIMENT AND OIL TRAP. SEE DETAIL 1/11
    N: 2189310.02
    E: 2372868.52
    RIM: 2144.85
    IE IN: 2141.83 (N)
    IE OUT: 2141.04 (SW)
    IE OUT: 2141.04 (S)
17. INSTALL STANDARD MANHOLE. SEE DETAIL 2/15
    N: 2189184.88
    E: 2372953.73
    RIM: 2142.82
    IE IN: 2139.92 (N)
    IE IN: 2139.92 (W)
    IE OUT: 2139.92 (S)
18. INSTALL DRYWELL TYPE 'B1'. SEE DETAIL 1/10
    N: 2189028.71
    E: 2373086.14
    RIM: 2139.23
    IE IN: 2138.21 (S)
    IE IN: 2138.80 (N)
    IE OUT: 2138.11 (W)
19. INSTALL 12" PIPE. SEE DETAIL 1/15
20. RETAIN & PROTECT EXISTING CATCH BASIN
21. INSTALL STANDARD DRIVEWAY APPROACH AND SIDEWALK PER CITY DETAIL. SEE DETAIL 1/13

GENERAL NOTES:

1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN APPROXIMATELY ONLY PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL UTILITY COMPANIES OF THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MAY OCCUR BY FAILURE TO EXACTLY LOCATE AND PROTECT ALL UTILITIES.

HMH engineering
3882 N. Schreiber Way, Suite 104
Coeur d'Alene, ID 83815
(208) 635-5825

11TH STREET STORMWATER PROJECT
CITY OF COEUR D'ALENE
CIVIL (C)
E LAKESHORE DR

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

AGENCY REVIEW

1" SCALE: (11X17 ONLY)

dwg: m21014 c-101 plan.dwg
PROJECT NO: M21014
DRAWN BY: B. SOUVENIR
CHECKED BY: J. SHAW
DATE: 2023/02/07

REVISIONS

NO.	DATE	BY	DESCRIPTION

AREA #5

DRAWING: C-106
SHEET: 09 OF 15

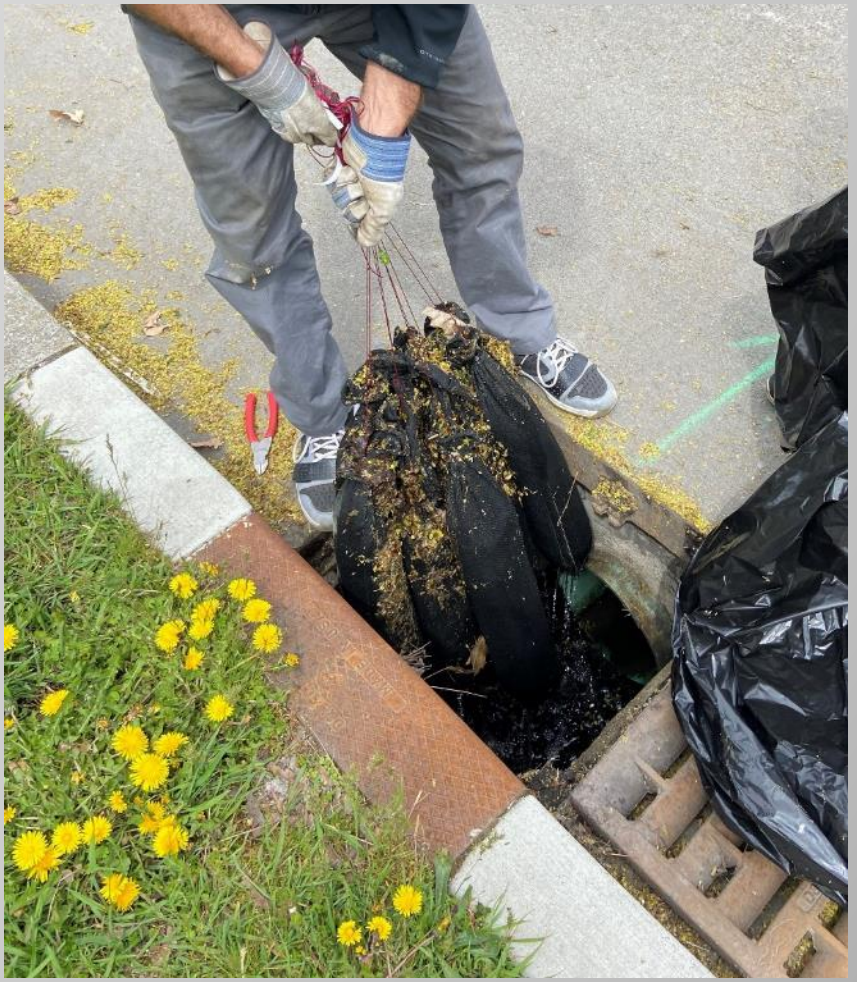
Plot Date: 2/7/2023 11:17 AM | Plotted By: Brandi Souvenir
Path: Z:\DOCUMENTS\PROJECTS\2021\M21014 CDA SAND\05 BEACH STORMWATER\CAD\PLAN SHEETS\M21014 C-101 PLAN.DWG

City of
Coeur d'Alene
IDAHO

Mullan Ave Outfall

12 Acres, 2023

City of Coeur d'Alene IDAHO



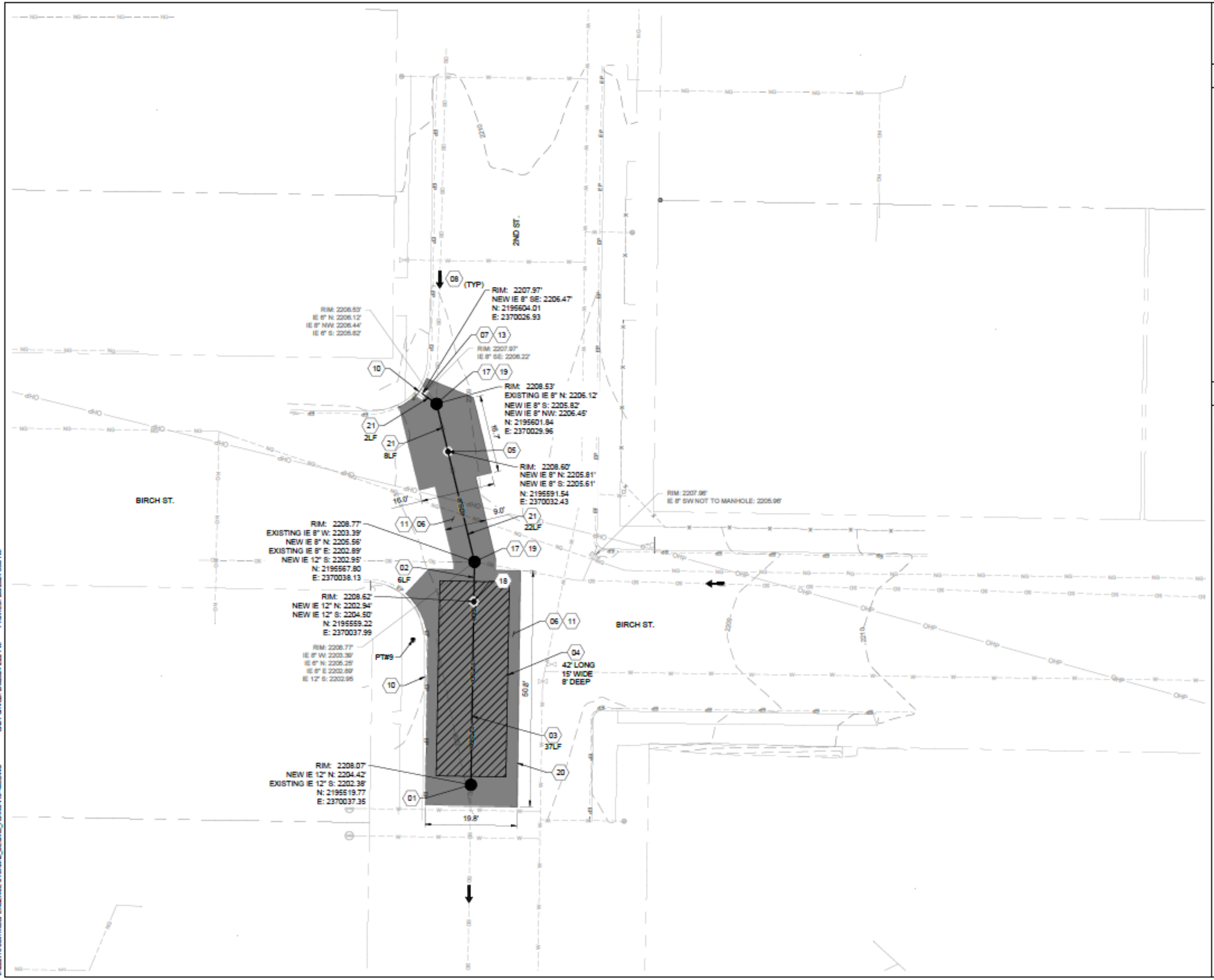
Biochar Sock Experiment

City of Coeur d'Alene IDAHO

Independence Point Outfall

65 Acres, 2024

City of Coeur d'Alene IDAHO



GENERAL SHEET NOTES

1. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION, CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. FURNISH MATERIALS WHERE "INSTALL", "PLACE" OR "CONSTRUCT" IS REQUIRED UNLESS NOTED OTHERWISE.
3. AREAS DISTURBED BY CONSTRUCTION WHERE SURFACE REPAIR IS NOT INDICATED SHALL BE RESTORED TO CONDITIONS FOUND PRIOR TO CONSTRUCTION. THIS COST SHALL BE INCIDENTAL TO THE CONTRACT.
4. ALL PROPOSED BOUNDARIES OF CONSTRUCTION THAT ARE PAVEMENT OR CONCRETE SHALL BE SAWCUT, LEAVING A CLEAN VERTICAL EDGE. MATCH NEW CLEAN VERTICAL EDGE. MATCH NEW MATERIALS TO SAWCUT EDGE.
5. RETAIN AND PROTECT ALL UNDERGROUND UTILITIES AND ALL SURFACE ITEMS (MAILBOXES, FIRE HYDRANTS, SIGNS, POWER POLES, WATER METERS, LANDSCAPE ETC). RESTORE ANY DISTURBED ITEMS OR AREAS TO PRE CONSTRUCTION CONDITION.
6. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS PRIOR TO PROCEEDING AND NOTIFY ENGINEER IF CONFLICTS EXIST.

SHEET KEYNOTES

01	INSTALL STANDARD MANHOLE: RE: B2/C-503 & SS-5/C-502
02	INSTALL 12" STORM PIPE; RE: SPECS AND SD-8/C-501
03	INSTALL 12" PERFORATED STORM PIPE WITH TRANSITION ON ENDS TO CONNECT TO EXISTING PIPES OR MANHOLES; RE: SPECS AND SD-8/C-501
04	CONSTRUCT INFILTRATION TRENCH; RE: A2/C-503
05	INSTALL TYPE B DRYWELL: RE: SD-6B/C-501
06	ASPHALT REPAIR, TYPE B; RE: M-11/C-501
07	INSTALL CATCH BASIN TYPE 1; RE: SD-1/C-502
08	CONTRACTOR TO MAINTAIN EXISTING STORM FLOW PATH INDICATED ON PLANS
10	RETAIN & PROTECT EXISTING CURB, GUTTER, AND SIDEWALK
11	REMOVE EXISTING ASPHALT & REGRADE
13	REMOVE EXISTING CATCH BASIN INLET
17	REMOVE EXISTING MANHOLE
18	INSTALL TYPE A DRYWELL WITHIN INFILTRATION TRENCH; RE: SD-6A/C-501
19	INSTALL INTERCEPTING SEDIMENTATION & DISTRIBUTION MANHOLE; RE: A3/C-503
20	PAVEMENT REMOVAL LIMITS
21	INSTALL 8" STORM PIPE; RE: SPECS AND SD-8/C-501

KELLER ASSOCIATES
601 Sherman Avenue, Suite 1
Coeur d'Alene, Idaho 83814
(208) 813-7603

95% Design Review Not For Construction
17638

NO.	REVISIONS	DATE

City of Coeur d'Alene IDAHO

INDEPENDENCE POINT STORMWATER IMPROVEMENTS

E. BIRCH AVE & N. 2ND ST

DRAWN: SMC CHECK: AJT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 220064
PAGE

SHEET NO. C-406

J:\220176 CDA INDEPENDENCE STORM\C_DESIGN_PLANS\-C-406.DWG LAST SAVED: 2/6/2024 2:22 PM PRINTED: 2/6/2024 3:50 PM

3rd Street Outfall

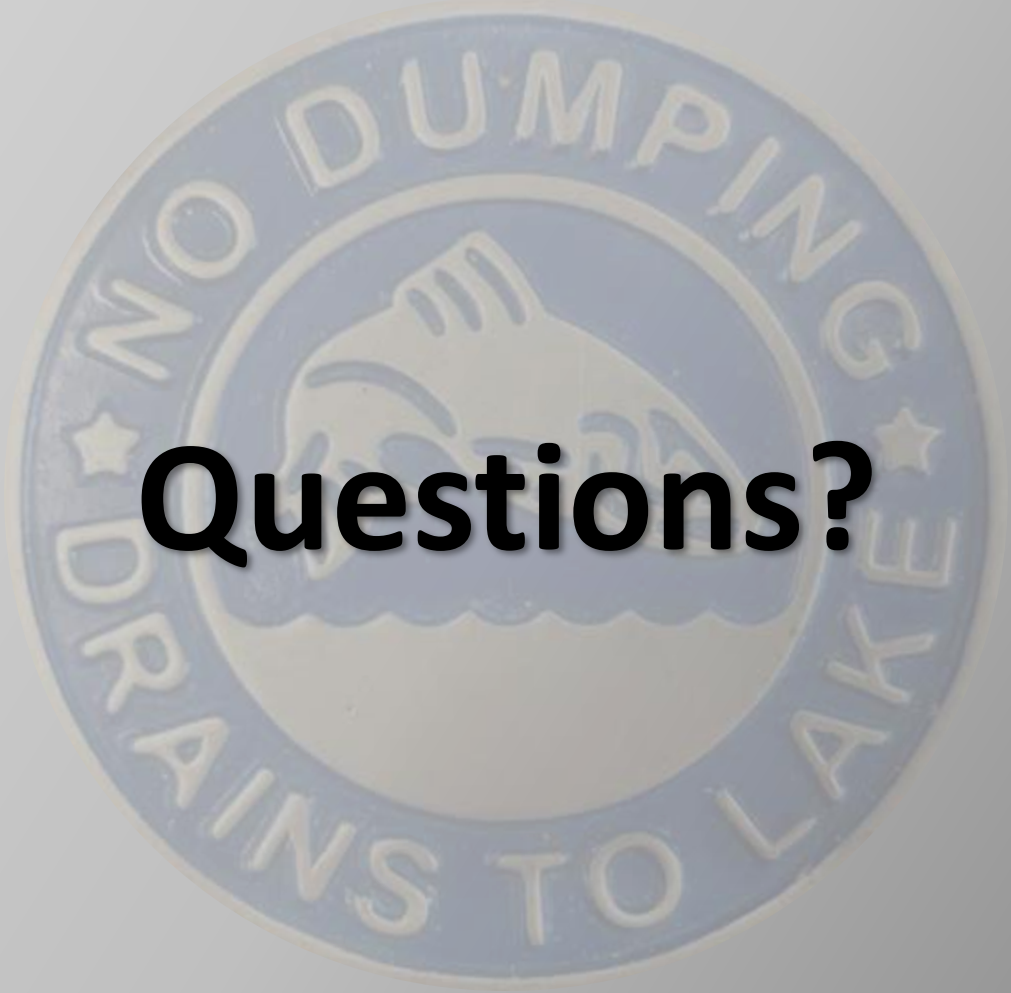
26 Acres, 2025

3rd Street Outfall

City of Coeur d'Alene IDAHO

Since 2018 the City of Coeur d'Alene has diverted stormwater flow to Coeur d'Alene Lake and the Spokane River totaling 13% of the hard pipe area!

City of Coeur d'Alene IDAHO



Questions?

City of Coeur d'Alene IDAHO