

Appendix B. Restoration Design

The map displays the project location in Coquille, Oregon. A callout map at the top right shows the region around Portland, Oregon, with an arrow pointing to Coquille. The main map shows the Pacific Ocean to the west, the Coquille River flowing through the area, and the project site marked with a rectangle. A north arrow is located in the bottom right corner.

LEGEND		PROPOSED	
	TREE	 100'	MAJOR CONTOUR
	MAJOR CONTOURS		MINOR CONTOUR
	MINOR CONTOURS		CONSTRUCTION LIMITS
	PROPERTY LINE		CENTERLINE
	FENCE		SILT/EXCLUSION FENCE
			RIPARIAN REVEGETATION
			AREA TO BE FILLED

SHEET INDEX

SHT NUMBER	DWG NUMBER	SHT DESCRIPTION			
GENERAL			19	C17	NEW NORTH-SOUTH CANAL AND BERM 2
01	001	TITLE, VICINITY, PROJECT AREA, LEGEND AND INDEX	20	C18	(NOT USED)
02	002	ABBREVIATIONS AND NOTES	21	C19	CHINA CAMP CREEK CANAL FILL
CANAL			22	C20	CHINA CAMP CREEK CANAL BERM 1
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04	002	PLANNED MODIFICATIONS - NORTH	24	C22	CHINA CAMP CREEK CANAL BERM 3
05	003	PLANNED MODIFICATIONS - SOUTH	25	C23	INTERIOR CANAL FILL 1A
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09	007	EROSION CONTROL DETAILS	29	C27	INTERIOR CANAL FILL 2B
10	008	EAST CANAL BERM 1 AND WEST CANAL BERM 1	30	C28	TYPICAL CROSS SECTIONS
11	009	WEST CANAL BERM 2	31	C29	FENCE DETAILS
12	010	WEST CANAL BERM 3	32	C30	COORDINATE TABLES CHANNEL LAYOUT 1
13	011	WEST CANAL BERM 4	33	C31	COORDINATE TABLES CHANNEL LAYOUT 2
14	012	NORTH CANAL BERM 1	34	C32	GUN CLUB TIDAL DEPRESSIONS PLAN
15	015	(NOT USED)	35	C33	GUN CLUB TIDAL DEPRESSIONS DETAILS
16	014	NORTH CANAL BERM 3	36	C34	GUN CLUB TIDAL DEPRESSIONS LAYOUT COORDINATES
17	015	(NOT USED)	37	C35	CULVERT AND TIDE GATE PLAN AND SECTION
18	016	NEW NORTH-SOUTH CANAL AND BERM 1	38	C36	VEGETATION MOUNDS DETAILS & COORDINATE TABLE

A diagram of a section symbol, which is a circle with a horizontal line through its center. The upper half of the circle is filled with a diagonal hatching pattern. Two arrows point from the text labels to the symbol: one points to the hatched upper half, and the other points to the lower half.

SHEET OR DETAIL

SHEET WHERE SECTION/DETAIL SHOWN

FINAL DESIGN

NOTES

GENERAL

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING REQUIREMENTS SET FORTH IN THE PERMITS OBTAINED FOR THIS PROJECT. THE CONTRACTOR SHALL MAINTAIN A COPY OF ALL PERMITS ON-SITE DURING CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE CONDITIONS AND THE SAFETY OF HUMAN LIFE DURING THE COURSE OF CONSTRUCTION. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY DURING THE PERIOD OF CONSTRUCTION AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
3. THE CONTRACTOR SHALL KEEP JOB SITE AREA CLEAN, HAZARD-FREE, AND PROPERLY DISPOSE OF ALL DEBRIS, RUBBISH, AND CONSTRUCTION WASTE. ALL DISTURBED AREAS ARE TO BE REHABILITATED PER FINAL GRADING SPECIFICATIONS OR AT DIRECTION OF CAR.
4. THE CONTRACTOR SHALL INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE.

SURVEY CONTROL AND CONSTRUCTION LIMITS

1. EXISTING GROUND ELEVATION DATA IS FROM THE COMBINED LIDAR (DOGAMI 2008) AND 2013 TOPOGRAPHIC SURVEY (ESTABROOK 2013). ALL MAPPING IS PROJECTED TO NAD83 STATE PLANE, OREGON SOUTH, UNITS OF US FEET. ALL ELEVATIONS ARE RELATIVE TO NAVD83 IN UNITS OF FEET. SURVEY CONTROL POINTS ARE PROVIDED FROM SURVEY PERFORMED BY ESTABROOK LAND SURVEYING IN 2013.
2. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION AND IS THE MEASURED HORIZONTAL DISTANCE.
3. CONSTRUCTION LIMITS, CENTERLINE AND OFFSET STAKING TO BE PERFORMED BY THE CONTRACTOR.
4. ALL CONSTRUCTION ACTIVITY, INCLUDING STAGING AND STOCKPILING, SHALL BE CONFINED TO THE PARCELS AS SHOWN IN THESE PLANS. CONTRACTOR SHALL ADHERE TO CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING REQUIRED DISTAL BENCH-MARKS, CONTROL LINES AND LEVELS. DO NOT DISTURB, EXCAVATE OR WORK BEYOND PROJECT LIMITS WITHOUT WRITTEN PERMISSION FROM CAR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING OREGON UTILITY NOTIFICATION CENTER AT 800.332.2344 AND SECURING A UTILITY LOCATE PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING MARKINGS.
6. CONTRACTOR TO INSTALL TEMPORARY FENCING WHEREVER NEEDED TO ENSURE CATTLE DO NOT ENTER THE WORKSITE.

ENVIRONMENTAL PROTECTION

1. CONTRACTOR WILL BE REQUIRED TO OBTAIN CONSTRUCTION HPDES PERMIT.
2. CONTRACTOR IS RESPONSIBLE FOR ADHERING TO WATER QUALITY STANDARDS AND SPECIFICATIONS. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED AND PROVIDED BY CONTRACTOR. SILT CURTAIN AND SILT FENCING ARE MINIMUM REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY BE REQUIRED AT CONTRACTORS DISPOSE TO MEET HPDES, THE SEDIMENT AND EROSION CONTROL PLAN, AND HPDES PERMIT REQUIREMENTS.
3. IF POTENTIAL HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CAR SHOULD BE CONTACTED IMMEDIATELY.
4. WORK WITHIN THE CMW OF CHINA CAMP CREEK WILL BE PERFORMED DURING THE IN-WATER WORK WINDOW FROM JULY 15 TO SEPT 15 OR AS APPROVED BY ODFW.

SEDIMENT AND EROSION CONTROL

1. CONTRACTOR IS REQUIRED TO PREPARE AND SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY THE CAR PRIOR TO COMMENCING WORK.
2. SEDIMENT CONTROL MEASURES SUCH AS SILT CURTAINS OR BARRIERS IN THE CHANALS ARE REQUIRED TO FUNCTION THROUGHOUT ALL TIDAL CYCLES AND ANTICIPATED DISTURBANCES AND MUST REMAIN IN PLACE UNTIL EXCAVATION OR FILL WORK IS COMPLETE FOR EACH LOCATION.
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO EACH CONSTRUCTION ELEMENT AND MAINTAIN THROUGHOUT DURATION OF FOR EACH ELEMENT WORK.

SITE EARTHWORK AND GRADING

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE EARTHWORK AND GRADING ACTIVITIES. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB SITE CONDITIONS WITH APPROVAL BY THE CAR. SIGNIFICANT DEVIATIONS FROM THESE PLANS SHALL BE COORDINATED WITH THE ENGINEER OF RECORD AND SHALL BE DOCUMENTED FOR INCLUSION IN AS-BUILT DRAWINGS TO BE PREPARED BY CONTRACTOR AT COMPLETION OF PROJECT.
2. EXCAVATED SOILS THAT MEET REQUIREMENTS MAY BE REUSED ON-SITE AS SHOWN AS LONG AS MEETING THE REQUIREMENTS. FINAL GRADING OF REUSED MATERIAL SHALL BE APPROVED BY CAR.
3. EXISTING SOILS ARE LIKELY TO BE SOFT AND SATURATED, AND LIKELY TO NOT SUPPORT CONVENTIONAL CONSTRUCTION EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL ACCESS MEASURES REQUIRED TO KEEP CONSTRUCTION ON SCHEDULE. THESE INCLUDE AND ARE NOT LIMITED TO ADEQUATE DEWATERING, SOIL REINFORCEMENT PADS AND SOIL STABILIZATION MATS, AND/OR TEMP GEOTEXTILE AND GRVEL ACCESS ROADS, USE OF LOW IMPACT TIRES, AND SPECIALIZED CONSTRUCTION EQUIPMENT.

TEMPORARY CONSTRUCTION FACILITIES

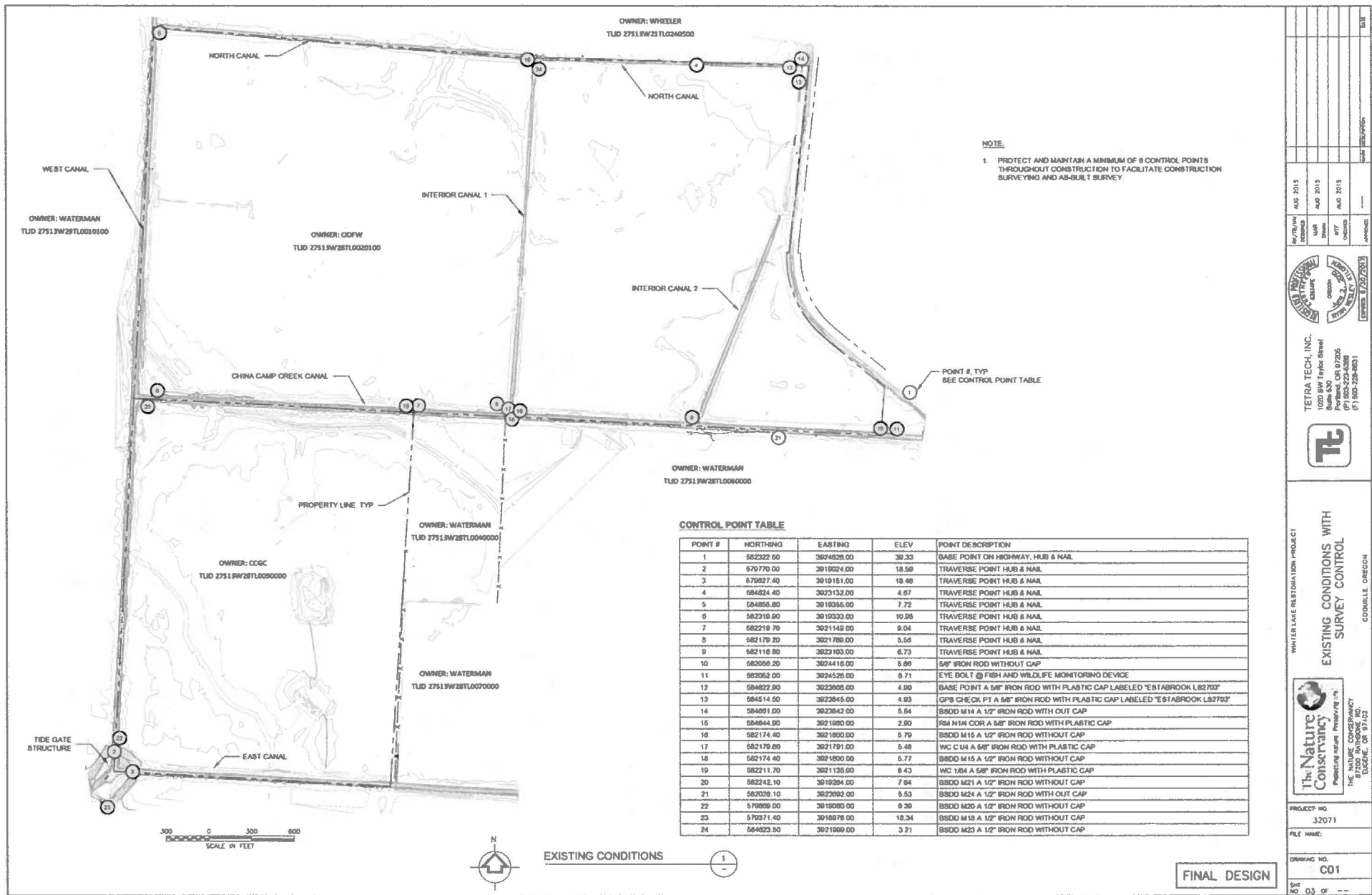
1. ALL TEMPORARY UTILITIES AND FACILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. A CONSTRUCTION TRAILER IS NOT REQUIRED. SITE MAY NOT HAVE EXISTING POTABLE WATER OR ELECTRICITY CONNECTIONS. ANY USE OF POTABLE WATER OR ELECTRICITY FROM EXISTING CONNECTIONS ON SITE MUST BE COORDINATED WITH LANDOWNER THROUGH WRITTEN AGREEMENT PRIOR TO USE. A CHEMICAL TOILET OF SUITABLE TYPE SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT ALL TIMES.

ABBREVIATIONS

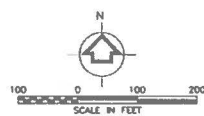
AC	ACRE
BMP	BEST MANAGEMENT PRACTICE(S)
BSDD	BEAVER SLOUGH DRAINAGE DISTRICT
BTM	BOTTOM
CAR	CONTRACTING AGENCY REPRESENTATIVE, THE NATURE CONSERVANCY (TNC)
CCOC	CHINA CAMP CREEK CLUB, INC.
CYD	CUBIC YARDS
DEPT	DEPARTMENT
DIA, D	DIAMETER
DWS	DEBRIS, WASTES, SEDIMENTS
DWG	DRAWINGS
E	EASTING
EG	EXISTING GROUND
EL, ELEV	ELEVATION
FQ	FINISHED GROUND
FT	FOOT OR FEET
HORIZ	HORIZONTAL
IN	INCH OR INCHES
LWD	LARGE WOODY DEBRIS
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH, NORTHING
NAD83	NORTH AMERICAN DATUM OF 1983
NAVD83	NORTH AMERICAN VERTICAL DATUM OF 1988
NO	NUMBER
NOMA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NTS	NOT TO SCALE
OC	ON CENTER
ODOT	OR DEPT OF TRANSPORTATION
ODFW	OR DEPT OF FISH AND WILDLIFE
OWH	ORDINARY HIGH WATER
PC	PRIMARY CHANNEL
PT	POINT
RM	REFERENCE MONUMENT
STA	STATION
SHT	SECONDARY CHANNEL
SPEC	SPECIFICATION(S)
SS	SIDE-SLOPE
SD	SQUARE
STD	STANDARD
TSD	TO BE DEVELOPED; TO BE DETERMINED
TEMP	TEMPORARY
TUD	TAX LOT IDENTIFIER
TTP	TYPICAL
USACE	UNITED STATES ARMY CORPS OF ENGINEERS
USFWS	UNITED STATES FISH AND WILDLIFE SERVICE
VERT	VERTICAL
W	WITH
WC	WITHNESS CORNER
W/O	WITHOUT
•	DEGREE
°	AT
!	NUMBER

 TETRA TECH, INC. 1000 SW 14th Street Suite 630 Portland, OR 97205 (503) 225-0388 (503) 225-0381	
 The Nature Conservancy THE NATURE CONSERVANCY 8700 JEFFERSON BL DALLAS, TX 75202	
PROJECT NO. 32071	
FILE NUMBER	
OFFICIAL NO. G02	
DATE 02	
BY ---	

FINAL DESIGN

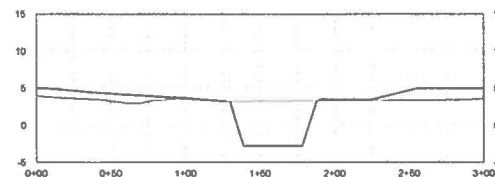






NORTH FILL AREA LAYOUT
SCALE: 1"=100'

NOTE:
FILL AREA MAY HAVE SOME TOPOGRAPHIC
VARIABILITY BETWEEN ELEV 5.0' TO 6.0'



SECTION - NORTH FILL AREA
HORZ 1"=40'; VERT 1"=8'

FINAL DESIGN

DATE	BY	CHKD	APPD
AUG 2013	WAB	WAB	WAB
AUG 2013	WAB	WAB	WAB
AUG 2013	WAB	WAB	WAB

PROJECT NO. 32071

FILE NAME:

DRAWING NO. C04

SHEET NO. 06 OF 11

PROJECT TITLE: WINTER LAKE RESTORATION PROJECT

PROJECT NAME: NORTH FILL AREA LAYOUT AND COORDINATES

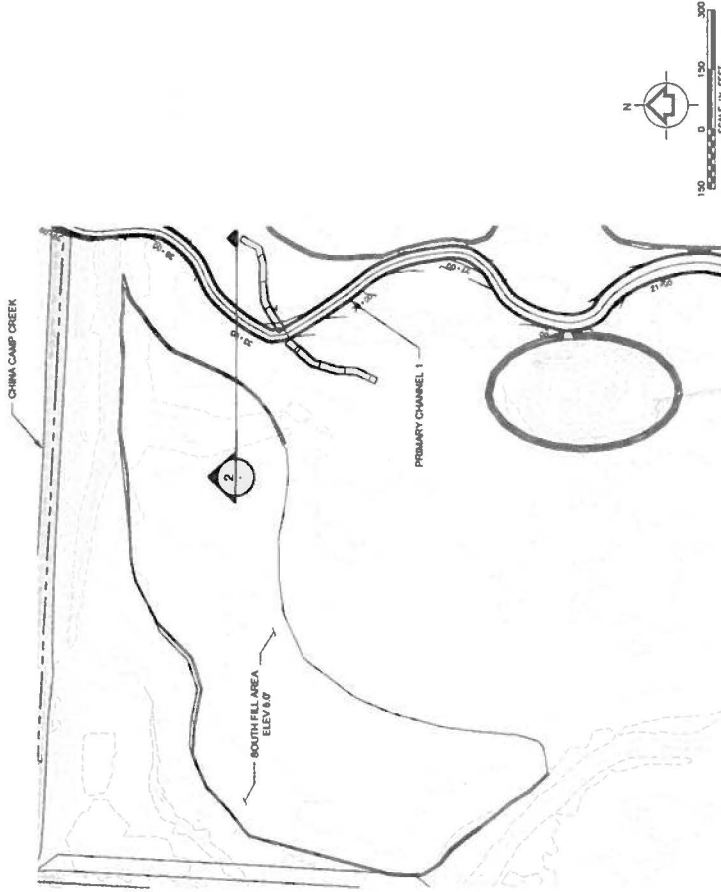
LOCATION: COQUILLE, OREGON

DESIGNED BY: TETRA TECH, INC.

1020 SW Taylor Street
Portland, OR 97205
(P) 503-223-4008
(F) 503-228-4001

THE NATURE CONSERVANCY
Protecting Nature. Preserving Life.
1165 N. NATURE CONSERVANCY
97500 N. NATURE RD.
EUGENE, OR 97402

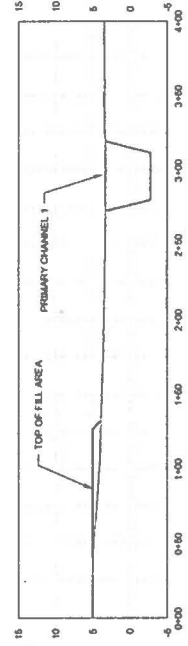
FINAL DESIGN



NOTE:
FILL AREA MAY HAVE SOME TOPOGRAPHIC
VARIABILITY BETWEEN ELEV 5.0' TO 6.0'.

SOUTH FILL/GRAZING
AREA LAYOUT
SCALE: 1"=150'

1

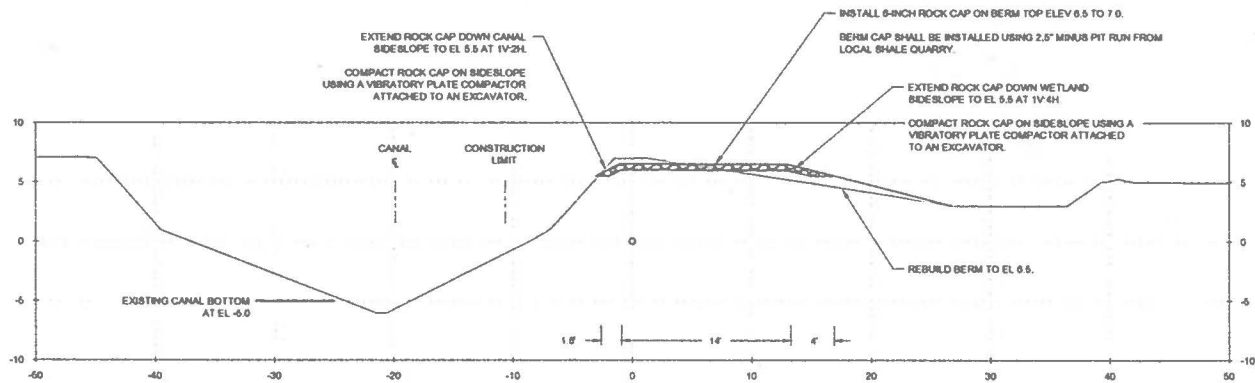


SECTION - SOUTH FILL
HORIZ 1"=40' VERT 1"=5'

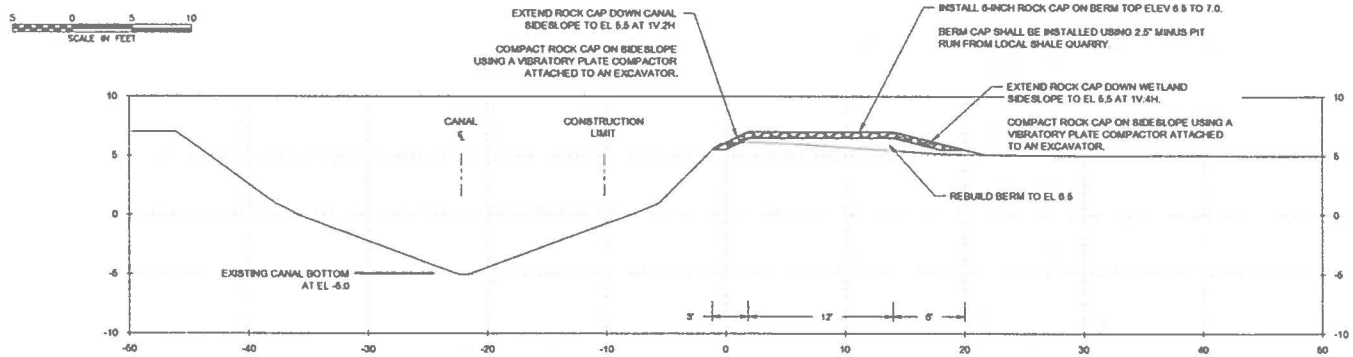
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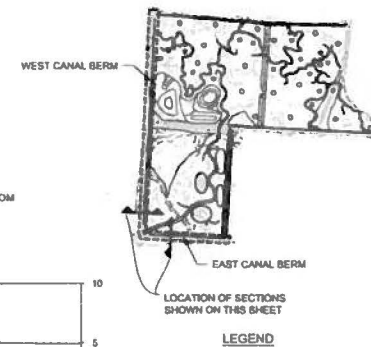
- FINAL DESIGN**



SECTION - EAST CANAL BERM 1
HORZ 1"=5'; VERT 1"=5'



SECTION - WEST CANAL BERM 1
HORZ 1"=5'; VERT 1"=5'



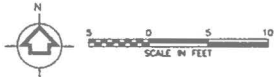
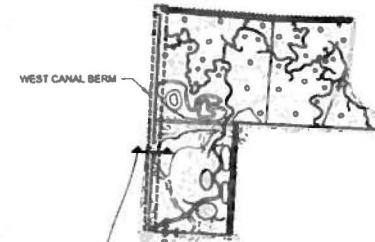
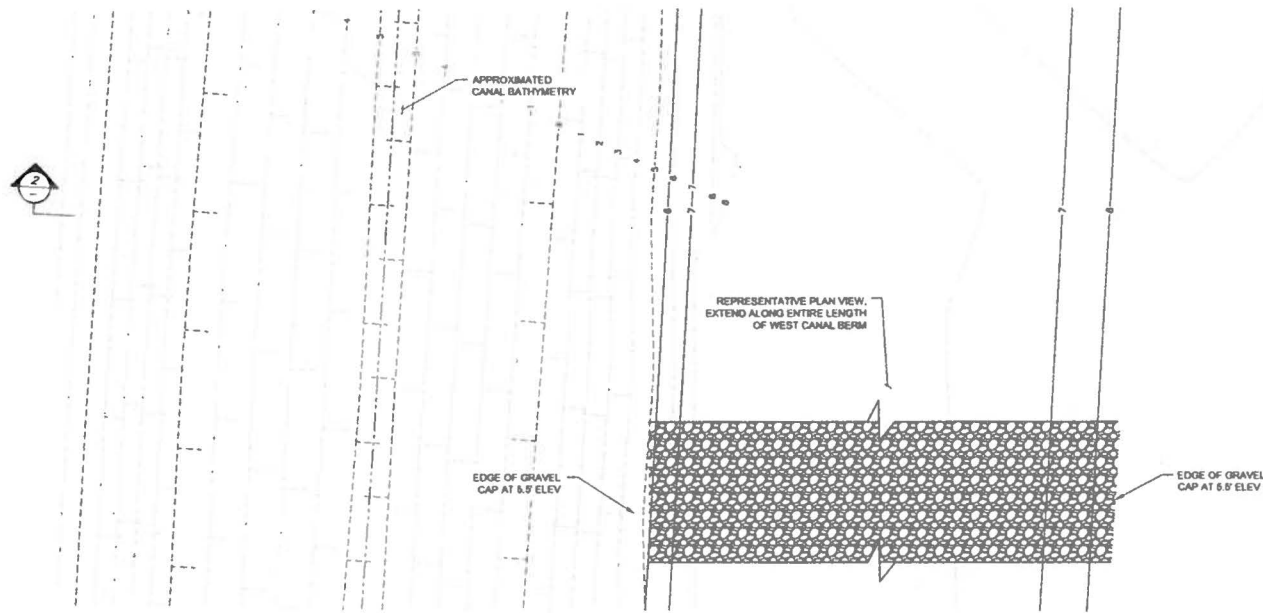
DATE: 8/20/2013	
DESIGNED BY: J. RYAN	CHECKED BY: J. RYAN
DATE: 8/20/2013	DATE: 8/20/2013
PROJECT NO: 32071	FILE NAME: C08
DRAWING NO: C08	
SHEET NO: 10 OF 11	

WATER LAKE REGIONAL PROJECT
EAST CANAL BERM 1 AND
WEST CANAL BERM 1
COQUILLE, OREGON

TETRA TECH, INC.
1020 SW Taylor Street
Bainbridge, OR 97106
(P) 503-229-0308
(F) 503-229-0301

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THE NATURE CONSERVANCY
67200 NATURE RD
EUGENE, OR 97402

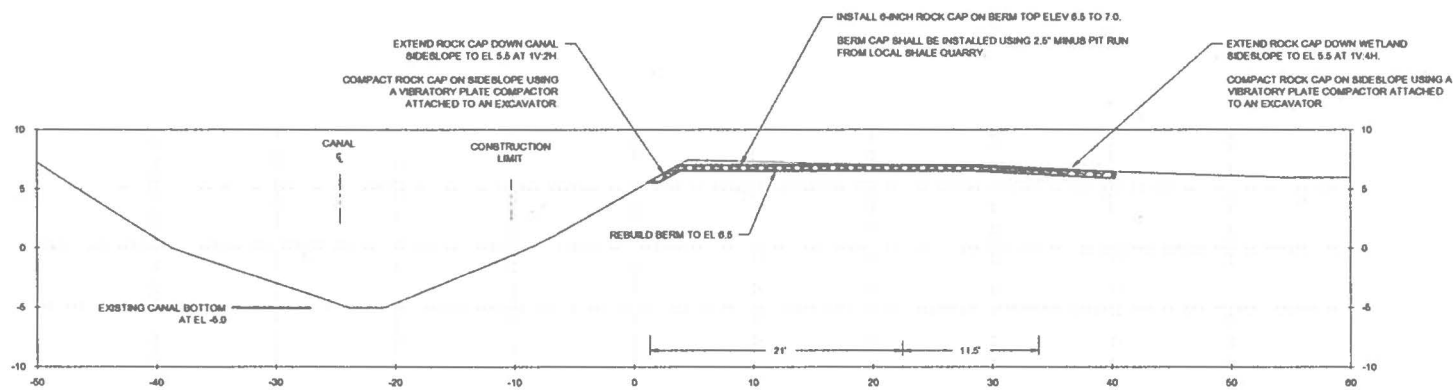
FINAL DESIGN



PLAN - WEST CANAL BERM 2

SCALE: 1"=5'

1
C03



SECTION - WEST CANAL BERM 2

HORIZ 1"=5'; VERT 1"=5'

2
C03

FINAL DESIGN

DATE	BY	CHKD	APP'D
AUG 2015	WSP	WSP	WSP
AUG 2015	WSP	WSP	WSP
AUG 2015	WSP	WSP	WSP

PROJECT NO. 32071

FILE NAME: C09

DRAWING NO. C09

SHEET NO. 11 OF 11

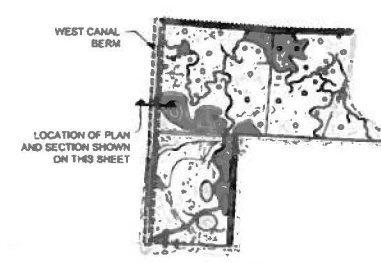
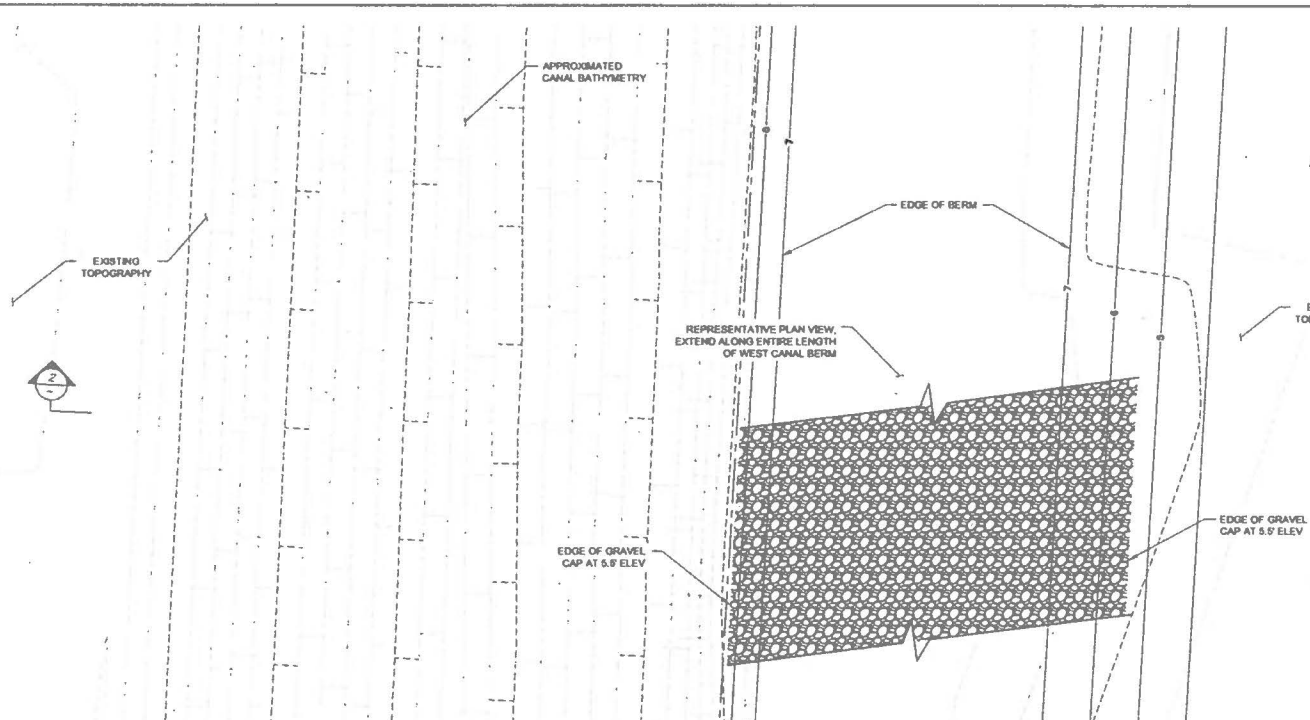
PROJECT: WINTER LAKE RESTORATION PROJECT

WEST CANAL BERM 2

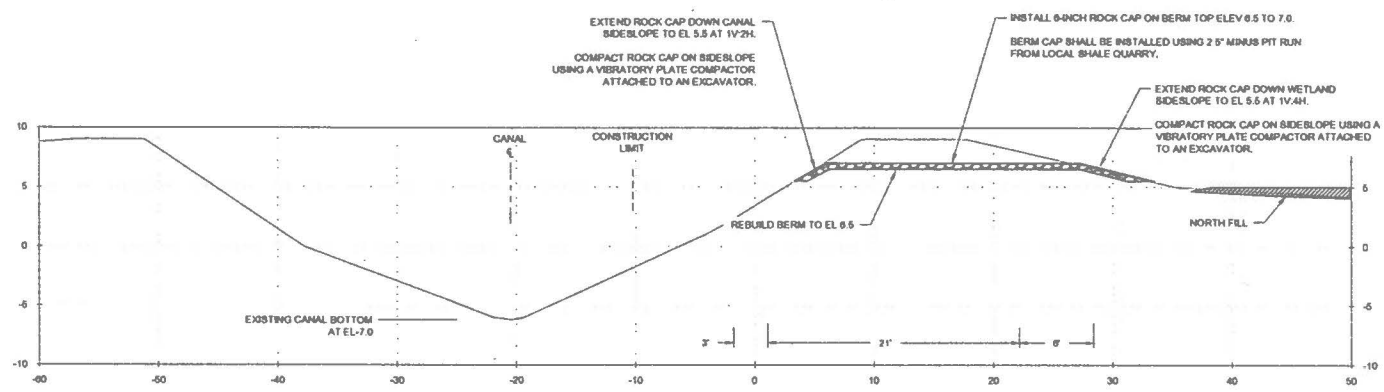
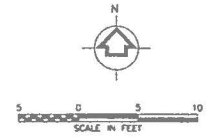
COOS BAY, OREGON

TETRA TECH, INC.
1000 NE Oregon Street
Portland, OR 97205
(503) 255-5388
(503) 255-5381

THE NATURE CONSERVANCY
Protecting Nature Preserving Life
87700 INVERBOURNE RD.
COOS BAY, OR 97422



PLAN - WEST CANAL BERM 3
SCALE: 1"=5'



PROFILE - WEST CANAL BERM 3
HORZ 1"=5'; VERT 1"=5'

FINAL DESIGN

DATE	DESCRIPTION
AUG 2015	DESIGNED
AUG 2015	CHECKED
AUG 2015	APPROVED

PROJECT NO. 32071

FILE NAME:

DRAWING NO. C10

SHEET NO. 12 OF 12

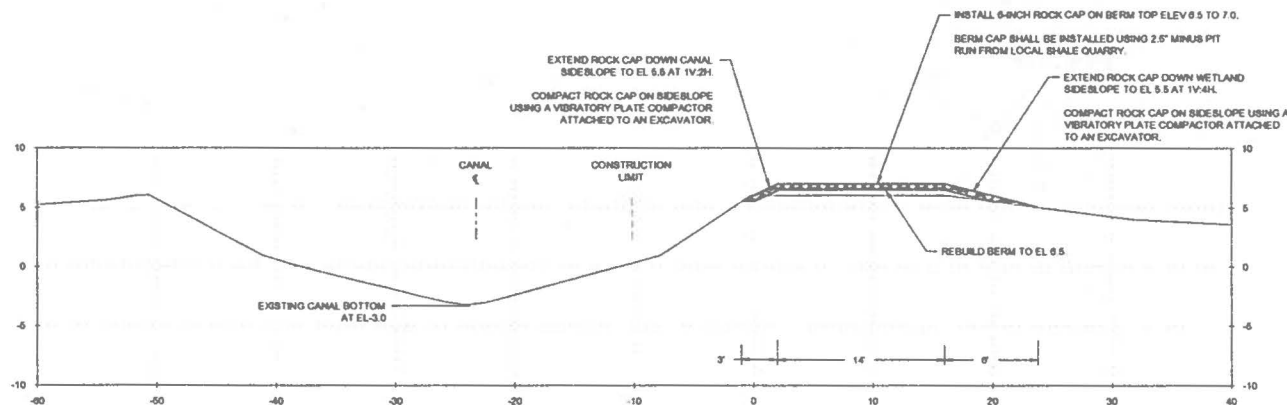
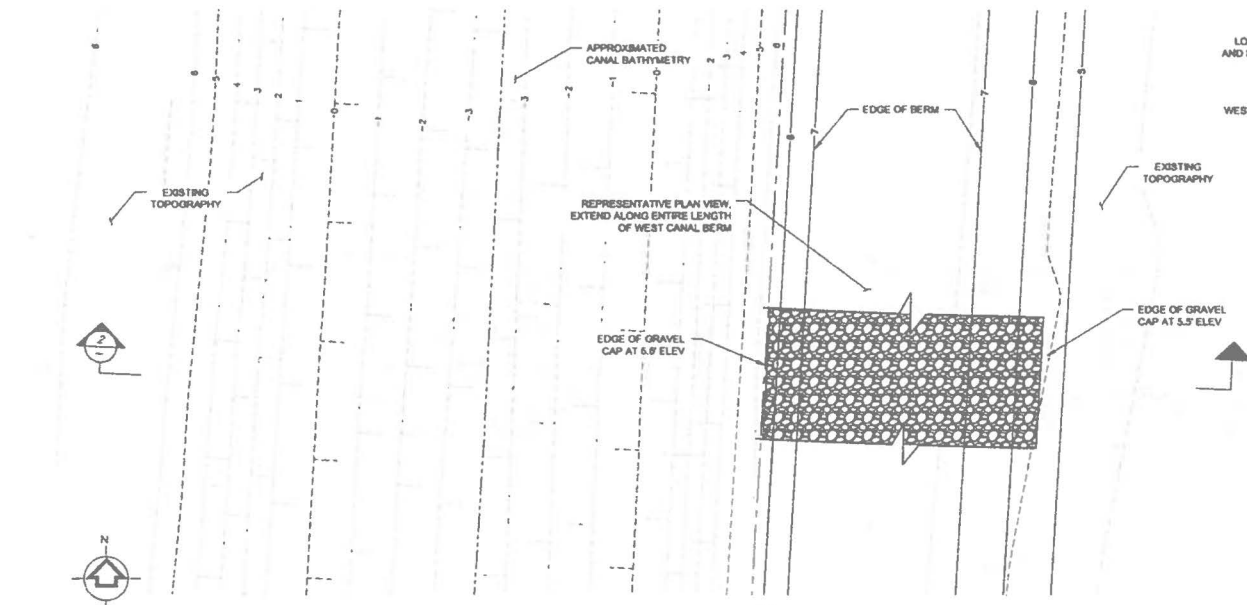
PROJECT: WINTER LAKE RESTORATION PROJECT

WEST CANAL BERM 3

COQUILLE, OREGON

TETRA TECH, INC.
1020 SW Taylor Street
Bella Vista
Portland, OR 97205
(P) 503-224-4388
(F) 503-224-4381

THE NATURE CONSERVANCY
PUBLISHING NATURE PRESERVING L.L.C.
THE NATURE CONSERVANCY
87500 WATSON RD.
EUGENE, OR 97402



FINAL DESIGN

DATE	10/20/2015	BY	WJL	CHKD	WJL	DATE	10/20/2015	BY	WJL	CHKD	WJL
DATE	10/20/2015	BY	WJL	CHKD	WJL	DATE	10/20/2015	BY	WJL	CHKD	WJL
DATE	10/20/2015	BY	WJL	CHKD	WJL	DATE	10/20/2015	BY	WJL	CHKD	WJL

WATER LAKE RESTORATION PROJECT

WEST CANAL BERM 4

COQUILLE, OREGON

TETRA TECH, INC.

10000 SW Taylor Street

Portland, OR 97205

Phone: (503) 225-8801

Fax: (503) 225-8801

THE NATURE CONSERVANCY

THE NATURE CONSERVANCY

9 LUGEN, OR 97122

PROJECT NO.

32071

FILE NAME

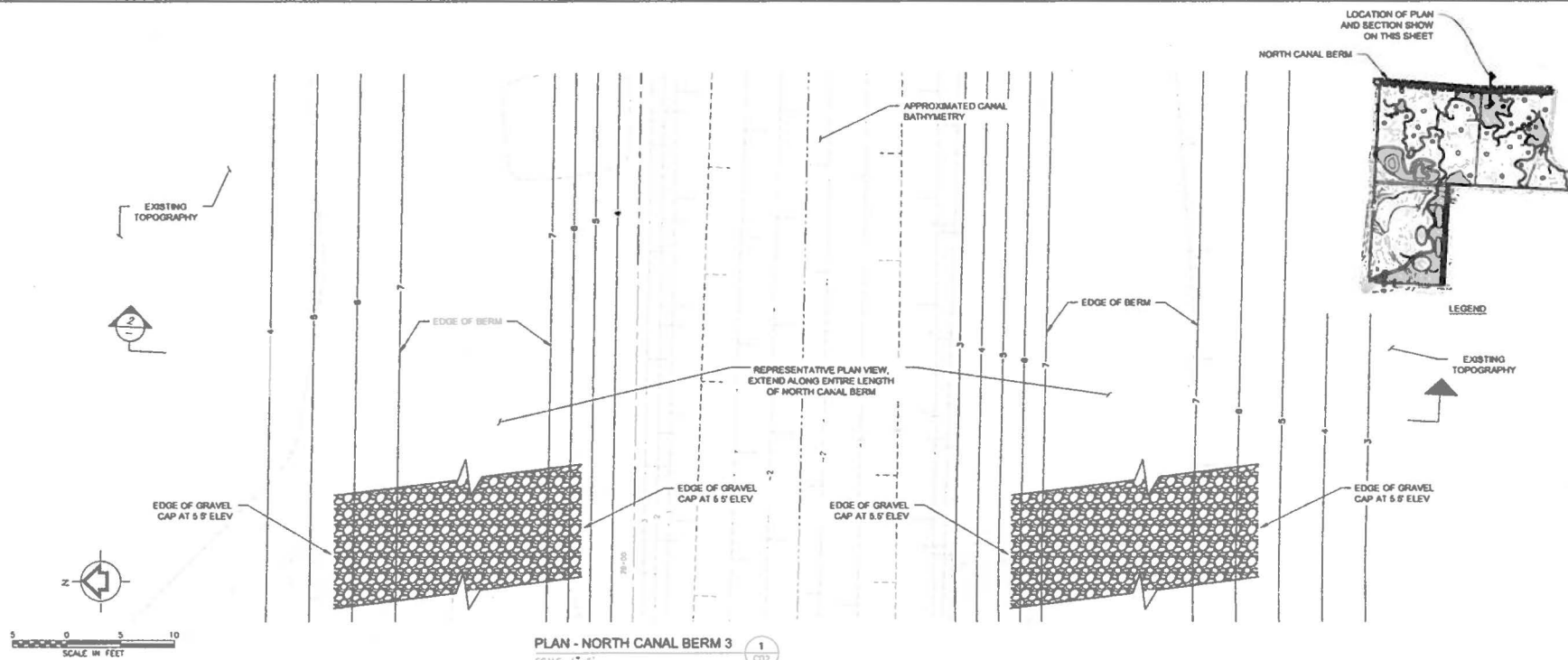
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C11

SHEET

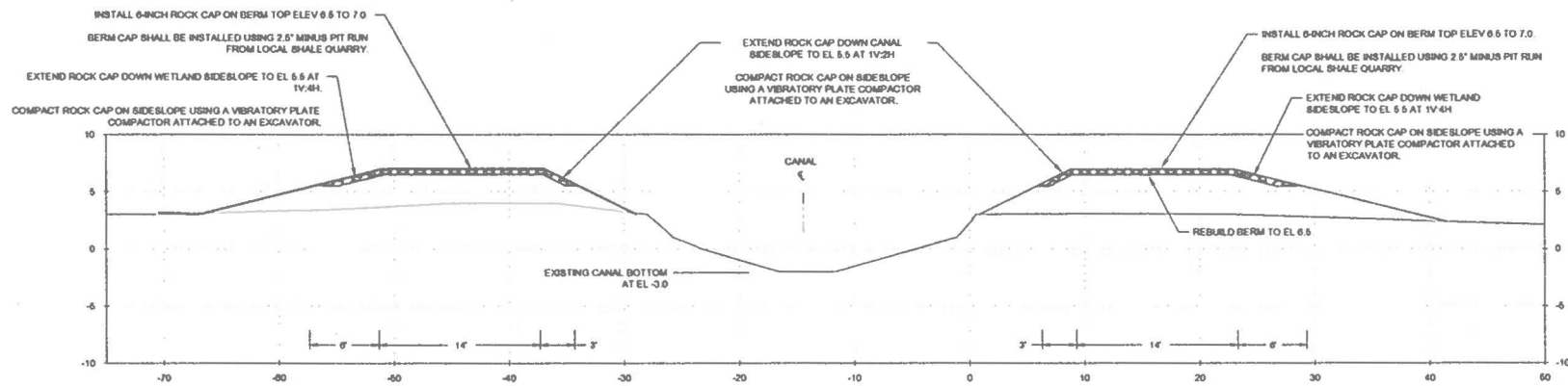
NO. 13 OF 13

P:\Projects\32071 - Miller Lake\CD\Sheet\North Canal\North Canal\North Canal.dwg 15/06/2015



PLAN - NORTH CANAL BERM 3
SCALE: 1"=5'

1
C02



SECTION - NORTH CANAL BERM 3
HORIZ 1"=5', VERT 1"=5'

2
C02

FINAL DESIGN

DATE	BY	CHK	APP
AUG 2015	WAR	WAR	
AUG 2015	WAR	WAR	
AUG 2015	WAR	WAR	
AUG 2015	WAR	WAR	

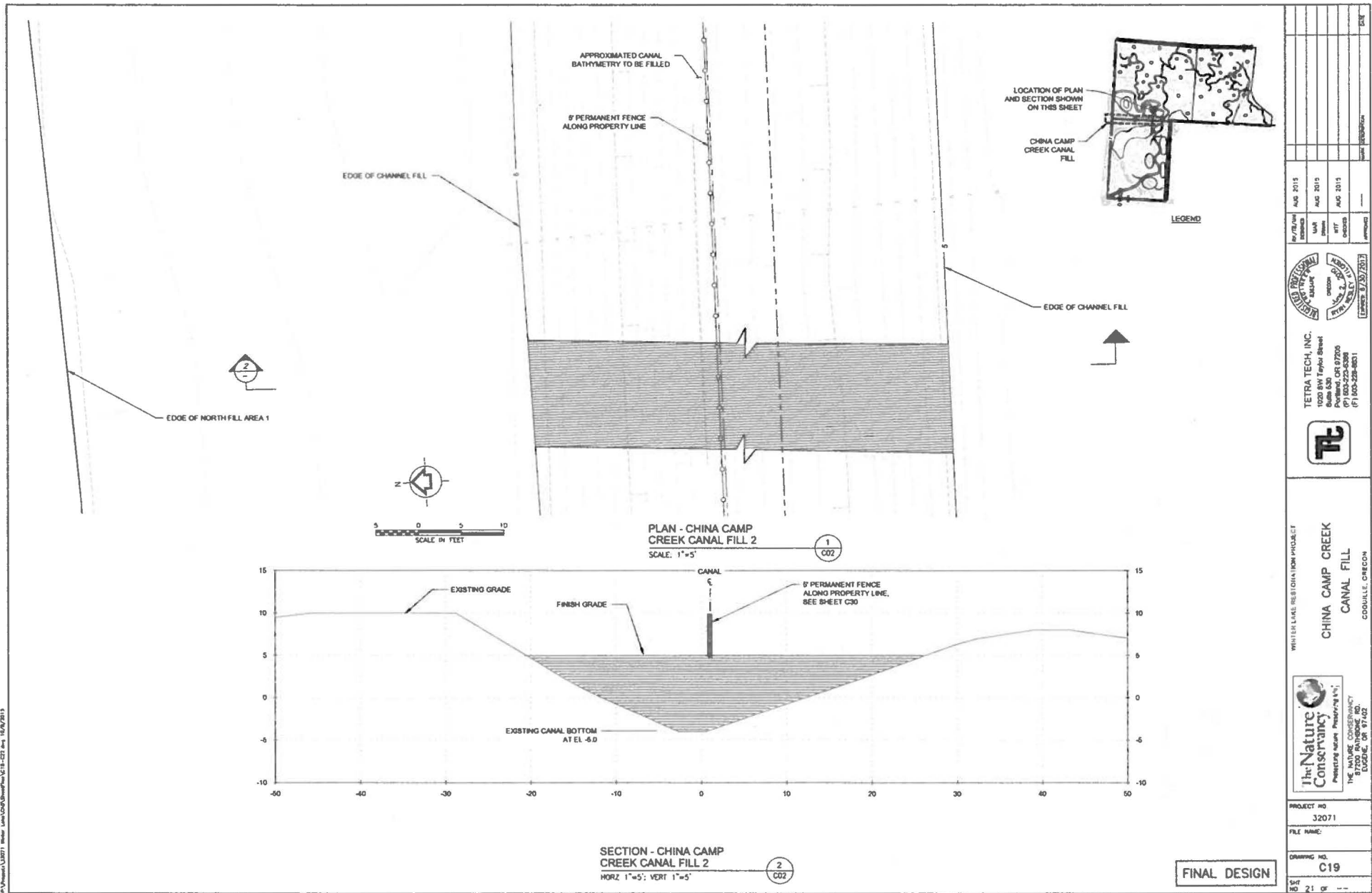
PROJECT NO. 32071
FILE NAME: C14
DRAWING NO. C14
SHEET NO. 16 OF 16

WATER LAKE RESTORATION PROJECT
NORTH CANAL BERM 3
COQUILLE OREGON

TETRA TECH, INC.
1000 Taylor Street
Suite 200
Portland, OR 97205
(P) 503-225-5388
(F) 503-225-5831

THE NATURE CONSERVANCY
Preserving Nature Preserving You
87200 RAVENHOLE RD.
COQUILLE, OR 97422

P:\Users\j30571\OneDrive\Projects\China Camp Creek Canal Fill 2.dwg 11/07/2015



DATE	11/07/2015
DESIGNED BY	11/07/2015
CHECKED BY	11/07/2015
APPROVED BY	11/07/2015
PROJECT NO.	32071
FILE NAME	
DRAWING NO.	C19
SHEET NO.	21 OF --

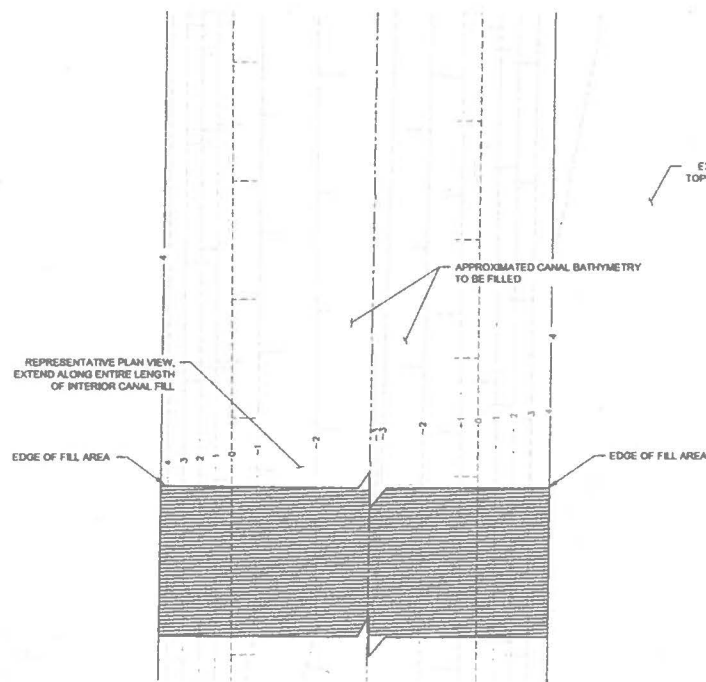
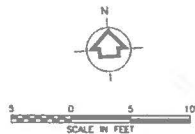
WHITELAKE RESTORATION PROJECT

CHINA CAMP CREEK CANAL FILL

COQUILLE, OREGON

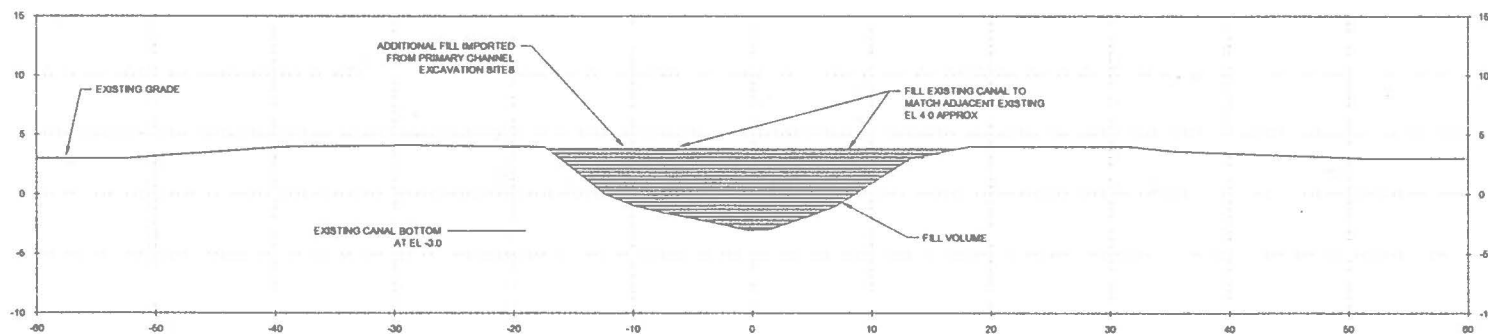
TETRA TECH, INC.
1020 SW Taylor Street
Bldg 630
Coquille, OR 97330
(503) 862-2224
(503) 862-2224-4001

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17500 N. WILSON RD.
EUGENE, OR 97402



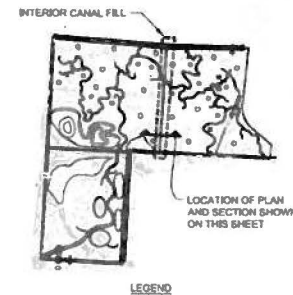
PLAN
INTERIOR CANAL FILL 1A
SCALE: 1"=5'

1
C02



SECTION
INTERIOR CANAL FILL 1A
HORZ 1"=5'; VERT 1"=5'

2
C02



Revised/Issued	DATE	BY	DESCRIPTION
	AUG 2015		
	AUG 2015		
	AUG 2015		
	AUG 2015		
TETRA TECH, INC. 1000 SW Taylor Street Suite 530 Portland, OR 97205 (P) 503-222-4300 (F) 503-222-8001			
WINTER LAKE RESTORATION PROJECT INTERIOR CANAL FILL 1A COQUILLE, OREGON			
PROJECT NO: 52071 FILE NAME: DRAWING NO: C23 SHEET NO: 25 OF --			
FINAL DESIGN			