

A

B

C

D



LOCATION MAP



VICINITY MAP

SHEET DESIGNATIONS:
000 - NOTES
100 - PLANS
200 - ELEVATIONS
300 - SECTIONS
400 - ENLARGED PLANS
500 - DETAILS
600 - SCHEDULES

DRAWING INDEX

SHEET NO.	DRAWING NO.	DRAWING TITLE
GENERAL		
1	G-001	TITLE SHEET, LOCATION AND VICINITY MAPS, DRAWING INDEX
2	G-002	GENERAL CIVIL NOTES AND LEGEND
3	G-003	GENERAL STRUCTURAL NOTES
4	G-004	ABBREVIATIONS
5	G-005	ABBREVIATIONS AND SYMBOLS
6	G-100	PROJECT KEY PLAN
7	G-101	PROJECT SEQUENCING, STAGING AND ACCESS PLAN
8	G-200	HYDRAULIC PROFILE
9	G-201	HYDRAULIC PROFILE CONTINUED
DEMOLITION AND SUBGRADE IMPROVEMENTS		
10	D-101	EXISTING CANAL AND ROCK ALTERATION PLAN STA 42+75 TO STA 50+00
11	D-102	EXISTING CANAL AND ROCK ALTERATION PLAN STA 50+00 TO STA 57+00
12	D-103	EXISTING CANAL AND ROCK ALTERATION PLAN STA 57+00 TO STA 64+00
13	D-104	EXISTING CANAL AND ROCK ALTERATION PLAN STA 64+00 TO STA 71+00
14	D-105	EXISTING CANAL AND ROCK ALTERATION PLAN STA 71+00 TO STA 77+75
15	D-501	DEMOLITION DETAILS
16	D-502	ROCK REMOVAL EXAMPLE PHOTOGRAPHS
CIVIL		
17	C-100	ALIGNMENT DATA - TANGENT AND CURVE TABLES
18	C-101	PLAN AND PROFILE STA 42+75 TO STA 50+00
19	C-102	PLAN AND PROFILE STA 50+00 TO STA 57+00
20	C-103	PLAN AND PROFILE STA 57+00 TO STA 64+00
21	C-104	PLAN AND PROFILE STA 64+00 TO STA 71+00
22	C-105	PLAN AND PROFILE STA 71+00 TO STA 77+75
23	C-301	CANAL SECTIONS SHEET 1
24	C-302	CANAL SECTIONS SHEET 2
25	C-303	CANAL SECTIONS SHEET 3
26	C-501	LINER DETAILS SHEET 1
27	C-502	LINER DETAILS SHEET 2
28	C-503	LINER DETAILS SHEET 3
29	C-504	WALL REPLACEMENT EXAMPLE PHOTOGRAPHS
30	C-505	ROCK STOCKPILE MAINTENANCE DETAILS

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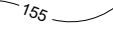
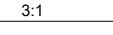
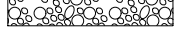
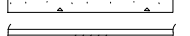
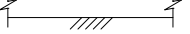
GENERAL SITE NOTES:

1. SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS ARE BASE MAPS PROVIDED BY QUADRANT CONSULTING, MARCH 2016. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS, INCLUDING BUT NOT LIMITED TO ROCK STOCKPILE PRESENCE AND DIMENSIONS ALONG CANAL BANKS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
2. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
3. HORIZONTAL DATUM: NAD83, IDAHO STATE PLANE, CENTRAL ZONE, US FEET.
4. VERTICAL DATUM: NAVD88.
5. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
6. FOR LOCATION OF CONTROL POINT ON STRUCTURES, SEE STRUCTURAL DRAWINGS.
7. COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
8. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
9. PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
10. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
11. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
12. ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE OR ARE EXPOSED BEDROCK SHALL BE COVERED WITH GRASS AND MULCH.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. IF REQUIRED, CONTRACTOR SHALL OBTAIN A SWPPP FROM THE RELEVANT REGULATORY AGENCY.
14. CONTRACTOR SHALL IMPLEMENT SEDIMENT AND EROSION CONTROL BEST MANAGEMENT PRACTICES TO REDUCE THE POTENTIAL FOR SEDIMENT TO LEAVE THE PROJECT SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN TO ENGINEER FOR REVIEW (INFORMATIONAL SUBMITTAL).
15. CONTRACTOR SHALL PROTECT ALL EXISTING POWER POLES AND OVERHEAD UTILITIES. ALL EQUIPMENT SHALL MAINTAIN A MINIMUM OF 10 FEET OF CLEARANCE HORIZONTALLY AND VERTICALLY FROM ALL ACTIVE OVERHEAD POWERLINES, OR MORE AS MAY BE REQUIRED BY THE UTILITY OWNER OR FOR SAFETY. FOLLOW ALL STATE AND FEDERAL (OSHA) LAWS.
16. THESE PLANS DO NOT INCLUDE NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK RELATING TO CONSTRUCTION, ERECTION, METHODS, BRACING, SHORING, RIGGING, GUYS, ROCK FALL PROTECTION, SCAFFOLDING, FORMWORK, AND OTHER WORK RELATED TO SAFELY PERFORMING THE WORK SHOWN.
17. TYPICAL DETAILS AS SHOWN ON THE DRAWINGS ARE INTENDED TO APPLY TO ALL SIMILAR SITUATIONS OCCURRING ON THE PROJECT, WHETHER OR NOT THEY ARE KEYED IN EACH LOCATION. CONSULT WITH ENGINEER FOR INTERPRETATION OF APPLICABILITY OF TYPICAL DETAILS.
18. CONTRACTOR SHALL PARTICIPATE IN A PRE-CONSTRUCTION MEETING WITH OWNER AND ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY AND SUBMISSION OF SUBMITTALS.
19. SHOULD A CONFLICT EXIST BETWEEN THE DESIGN DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT DETERMINED BY THE ENGINEER WILL GOVERN CONSTRUCTION.
20. PHOTOGRAPHS SHOWN ON SHEETS D-502 AND C-504 WERE TAKEN IN MARCH 2023. PHOTOGRAPHS SHOWN ON SHEET C-505 WERE TAKEN IN APRIL 2025.
21. AERIAL IMAGERY IS SHOWN FOR REFERENCE ONLY AND MAY NOT REFLECT EXISTING GROUND CONDITIONS AT THE TIME OF CONSTRUCTION.

GENERAL NOTE:

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE LEGEND AND SYMBOLS SHOWN MAY BE USED ON THIS PROJECT.

CIVIL LEGEND

EXISTING	THIS CONTRACT	
		SPOT ELEVATION
		CONTOUR LINE
		EMBANKMENT AND SLOPE
		DRAINAGEWAY OR DITCH
	 OR 	CATCH BASIN OR INLET
	 OR 	TRENCH DRAIN
	 OR 	SIGN
	 OR 	MANHOLE
		ELECTRICAL MANHOLE
		ELECTRIC HANDHOLE
		POST OR GUARD POST
		GUY ANCHOR
		FIRE HYDRANT
		UTILITY POLE
		LIGHT POLE
		BENCH MARK
		SURVEY CONTROL POINT OR POINT OF INTERSECTION
		BRUSH/TREE LINE
		TREE
		PROPERTY LINE
		CENTER LINE, BUILDING, ROAD, ETC.
		STAGING OR WORK AREA LIMITS
		STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES
		BORING LOCATION AND NUMBER
		TEST PIT LOCATION AND NUMBER
		PIEZOMETER LOCATION AND NUMBER
		DEMOLITION
		STRUCTURE, BUILDING OR FACILITY
		ASPHALT CONCRETE PAVEMENT
		GRAVEL SURFACING
		CONCRETE PAVEMENT
		CURB
		CURB AND GUTTER
		SINGLE SWING GATE
		DOUBLE SWING GATE
		SLIDING GATE
		GUARD RAIL
		CHAIN LINK FENCE
		ARCHITECTURAL FENCE

YARD PIPING LEGEND

EXISTING	THIS CONTRACT
	PIPING < 30" DIAMETER PIPING ≥ 30" DIAMETER
	EXISTING PIPE TO BE ABANDONED EXISTING PIPE TO BE REMOVED
	NON-FREEZE HOSE VALVE (V-X) X = NO. IN SPECIFICATIONS
	NON-FREEZE HOSE VALVE WITH HOSE RACK (V-X) X = NO. IN SPECIFICATIONS
	INDICATOR POST VALVE GATE VALVE AND VALVE BOX
	BUTTERFLY VALVE AND VALVE BOX PLUG VALVE AND VALVE BOX
	FLEXIBLE COUPLING 90° ELBOW UP
	90° ELBOW DOWN BEND < 90° UP
	BEND < 90° DOWN CONCENTRIC REDUCER
	CAP OR PLUG CLEANOUT
	FIRE HYDRANT

EROSION CONTROL LEGEND

COVER PRACTICES	SYMBOL
TEMPORARY SEEDING	
MULCHING AND MATTING	
CLEAR PLASTIC COVERING	
BUFFER ZONES	
PERMANENT SEEDING AND PLANTING	
CONSTRUCTION ENTRANCE	
INTERCEPTOR DIKE	
INTERCEPTOR SWALE	
CHECK DAMS	
OUTLET PROTECTION / RIPRAP	
FILTER FENCE	
STRAW BALE BARRIER (BIOFILTER)	
SEDIMENT TRAP (OR SUMP)	
SEDIMENT POND OR BASIN	

		JACOBS ENGINEERING GROUP 999 MAIN ST., STE 1200 BOISE, ID 83702							
		CANAL IMPROVEMENTS PROJECT STA 42+75 THRU STA 78+00 NORTH SIDE CANAL COMPANY JEROME, IDAHO							
GENERAL GENERAL CIVIL NOTES AND LEGEND		NO.	DATE	REVISION		BY	APVD		
		DSGN			CHK	APVD			
				DR	B BUTTERFIELD	P ROBINSON			
				C WEBSTER					
									D STOKER
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"									
DATE		MAY 2025							
PROJ		D3737000							
DWG		G-002							
SHEET		2 of 30							

1

2

3

4

5

6

ABBREVIATIONS

A

AMMETER, AMPERES, AWNINGS

AB

ANCHOR BOLT, ABOVE

ABDN

ABANDON

AC

ACOUSTICAL, ACOUSTICAL CEILING

AC

ALTERNATING CURRENT

AC

ASPHALTIC CONCRETE

ACFL

ACCESS FLOORING

ACI

AMERICAN CONCRETE INSTITUTE

ACMU

ACOUSTICAL CONCRETE MASONRY UNIT, ACOUSTICAL CMU

ACP

ACOUSTICAL PANELS

ACST

ACOUSTICAL

ACT

ACOUSTICAL TILE

AD

AREA DRAIN

ADDL

ADDITIONAL

ADJ

ADJACENT

ADW

DRY WEATHER AVERAGE

AFD

ADJUSTABLE FREQUENCY DRIVE

AFF

ABOVE FINISHED FLOOR

AFG

ABOVE FINISHED GRADE

AG

ACOUSTICAL, ACOUSTICAL GLASS

AGGR

AGGREGATE

AHR

ANCHOR

AISC

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

AJ

ADJUSTABLE

AL

ALUMINUM

ALKY

ALKALINITY

ALTN/ALT

ALTERNATE

AM

AUTO-MANUAL

AMRD

ACOUSTICAL METAL ROOF DECKING

ANDZ

ANODIZE

APPROX

APPROXIMATE

APVD

APPROVED

ARCH

ARCHITECTURAL

AR

ANALOG RELAY

AS

AS SELECTED

ATS

AUTOMATIC TRANSFER SWITCH

AUTO

AUTOMATIC

AUX

AUXILIARY

AVG

AVERAGE

AWW

WET WEATHER AVERAGE

@

AT

B

BELL

BAL

BALANCE

BETW

BETWEEN

BF

BLIND FLANGE, BOTTOM FACE

BFV

BUTTERFLY VALVE

BL

BASELINE

BFP

BACKFLOW PREVENTER

BLDG

BUILDING

BLK

BLOCK

BM

BEAM, BENCHMARK

BO

BOTTOM OF

B.O.B.

BOTTOM OF BEAM

BLL

BOTTOM LOWER LAYER

BOD

BOTTOM OF DUCT

BOP

BOTTOM OF PIPE

BOT

BOTTOM

BRG

BEARING

BRK

BRICK

BRKR

BREAKER

BSP

BLACK STEEL PIPE

BUL

BOTTOM UPPER LAYER

BV

BALL VALVE, BLOCK VENT

BVC

BEGINNING OF VERTICAL CURVE

C

CONDUIT, CASEMENT

°C

DEGREE CELSIUS

C TO C

CENTER TO CENTER

CAB

CABINET

CB

CATCH BASIN, CIRCUIT BREAKER

CC

CENTER OF CIRCLE

CC

CONTROL CABLE

CCP

CENTRAL CONTROL PANEL

CCS

CENTRAL CONTROL SYSTEM

CDF

CONTROLLED DENSITY FILL

CE

CONSTRUCTION ENTRANCE

CFM

CUBIC FEET PER MINUTE

CFS

CUBIC FEET PER SECOND

CHEM

CHEMICAL

CHKD

CHECKERED

CI

CAST IRON

CIP

CAST IRON PIPE, CAST IN PLACE

CIP

CULVERT INLET PROTECTION

CISP

CAST IRON SOIL PIPE

CJ

CONSTRUCTION JOINT

CKT

CIRCUIT

CL

CENTERLINE

CLDI

CEMENT LINED DUCTILE IRON

CLSF

CONTROLLED LOW STRENGTH FILL

CLG

CEILING

CLR

CLEAR, CLEARANCE

CLSM

CONTROLLED LOW STRENGTH MATERIAL

CMP

CENTRAL MONITORING PANEL

CMP

CORRUGATED METAL PIPE

CMU

CONCRETE MASONRY UNIT

CNTR

COUNTER

CO

CLEANOUT, CARBON MONOXIDE

COL

COLUMN, COLOR

CONC

CONCRETE

COND

CONDENSATE

CONDTN

CONDITIONED

CONN

CONNECTION

CONSTR

CONSTRUCTION

CONT

CONTINUED, CONTINUOUS, CONTINUATION

CONTR

CONTRACTOR

COORD

COORDINATE

COP

COPPER

CP

CENTER PIVOT

CP-X

CONTROL PANEL NO. X

CPLG

COUPLING

CPRSR

COMPRESSOR

CPT

CONTROL POWER TRANSFORMER, CARPET

CPVC

CHLORINATED PVC

CR

CONTROL RELAY

CRS

COLD ROLLED STEEL

CRS

CONSTRUCTION ROAD STABILIZATION

CT

CERAMIC TILE

CT

CURRENT TRANSFORMER

CTC

COMPUTER TERMINAL CABINET

CTR

CENTER

CTRD

CENTERED

CTSK

COUNTERSUNK

CU

CUBIC

CU FT

CUBIC FOOT

CU IN

CUBIC INCH

CUH

COPPER TUBING, HARD DRAWN

CV

CHECK VALVE

CWR

CABINET DOOR MOUNTED WASTE RECEPTACLE

CY, CU YD

CUBIC YARD

CWS

CLEAN WATER SERVICES

D

DEEP, DRAIN

d

PENNY NAIL SIZE

DA

DUAL ACTION

DAS

DATA ACQUISITION SYSTEM

DBA

DEFORMED BAR ANCHOR

DBL

DOUBLE

DC

DIRECT CURRENT

DEG

DEGREE

DET

DETAIL

DF

DOUGLAS FIR, DRINKING FOUNTAIN

DDI

DROP INLET

DH

DOUBLE HUNG

DI

DUCTILE IRON

DIA

DIAMETER

DIAG

DIAGONAL

DIP

DUCTILE IRON PIPE

DIR

DIRECTION

DISCH

DISCHARGE

DL

DEAD LOAD

DN

DOWN

DO

DISSOLVED OXYGEN

DOL

DIRECT-ON-LINE

DP, DPNL

DISTRIBUTION PANEL

DR

DOOR

DS

DOWNSPOUT

DWG

DRAWING

DWL

DOWEL

△

DELTA

E

EAST, EMPTY

EA

EACH, EXHAUST AIR

EB, EBCT

EMPTY BED CONTACT TIME

ECC

ECCENTRIC

EE

EMERGENCY EYEWASH

EDF

EGG-SHAPED DIGESTER FACILITY

EF

EACH FACE, EXHAUST FAN

EFF

EFFICIENCY, EFFICIENT

EFL

EFFLUENT

EIFS

EXTERIOR INSULATION AND FINISH SYSTEM

EL

ELEVATION

ELB

ELBOW

ELC

ELECTRICAL LOAD CENTER

ELEC

ELECTRIC, ELECTRICAL

ENGR

ENGINEER

EOP

EDGE OF PAVEMENT

ESC

EROSION AND SEDIMENT CONTROL

EP

EXPLOSION PROOF, EDGE OF PAVING

EQL

EQUAL

EQL SP

EQUALLY SPACED

EQPT

EQUIPMENT

ESC

EROSION AND SEDIMENT CONTROL

ETM

ELAPSED TIME METER

EVC

END OF VERTICAL CURVE

EW

EACH WAY

EWC

ELECTRIC WATER COOLER

EXH

EXHAUST

EXP

EXPANSION, EXPOSED

EXP AB

EXPANSION ANCHOR BOLT

EXP JT

EXPANSION JOINT

EXST, EXIST

EXISTING

EXT

EXTERIOR

° F

DEGREE FAHRENHEIT

FB

FLAT BAR

F, FU

FUSE

F, FX

FIXED

FAP

FIRE ALARM PANEL

FC

FLEXIBLE CONDUIT

FCA

FLANGED COUPLING ADAPTER

FCL2

FREE CHLORINE RESIDUAL

FCO

FLOOR CLEANOUT

FCTY

FACTORY

FD

FLOOR DRAIN

FDN

FOUNDATION

FDR

FEEDER

FEXT

FIRE EXTINGUISHER

FF

FINISHED FLOOR

FG

FINISH GRADE, FLOAT GLASS

FH

FLAT HEAD

FHY

FIRE HYDRANT

FIG

FIGURE

FL

FLOW LINE

FLG

FLANGE

FL

FLOOR

FLEX

FLEXIBLE

FLH

FLAT HEAD

FLTR

FILTER

FLUOR

FLUORESCENT

JT

FINISH

FOB

FLAT ON BOTTOM

FOT

FLAT ON TOP

FP

FIELD PANEL

FPM

FEET PER MINUTE

FR

FORWARD REVERSE

FRP

FIBERGLASS REINFORCED PLASTIC

FSHS

FOLDING SHOWER SEAT

FT

FOOT OR FEET

FTG

FOOTING

FU

FIXTURE UNIT

FVNR

FULL VOLTAGE NON-REVERSING

FVR

FULL VOLTAGE REVERSING

FWD

FORWARD

G, GND

GROUND

GA

GAUGE

GAL

GALLON

GALV

GALVANIZED

GB

GYPSUM BOARD

GC

GROOVED COUPLING

GCMU

GLAZED CONCRETE MASONRY UNITS

GFA

GROOVED FLANGE ADAPTER

GFI

GROUND FAULT INTERRUPTER

GFR

GROUND FAULT RELAY

GH

GREENHOUSE

GL

GLASS

GPD

GALLONS PER DAY

GPH

GALLONS PER HOUR

GPM

GALLONS PER MINUTE

GPS

GLOBAL POSITION SYSTEM

GRTG

GRATING

GSB

GYPSUM SOFFIT BOARD

GSP

GALVANIZED STEEL PIPE

GV

GATE VALVE

GVL

GRAVEL

GWB

GYPSUM WALLBOARD

GYP

GYPSUM

H

HIGH, HORN OR HOWLER

H2S

HYDROGEN SULFIDE

H.A.S.

HEADED ANCHOR STUD

HC

HOLLOW CORE WOOD

HCL

HYDROCHLORIC ACID

HDNR

HARDENER

HDNS

HARDNESS

HDR

HEADER

HDW

HARDWARE

HGL

HYDRAULIC GRADE LINE

HK

HOOK

HGT

HEIGHT

HH

HANDHOLE

HID

HIGH INTENSITY DISCHARGE

HK

HOOK

HM

HOLLOW METAL

HOA

HAND-OFF-AUTO

HOR

HAND-OFF-REMOTE

HORIZ

HORIZONTAL

HP

HORSEPOWER

HPT

HIGH POINT

HPU

HYDRAULIC POWER UNIT

HR

HOSE RACK, HANDRAIL

HV

HOSE VALVE

HVAC

HEATING, VENTILATING AND AIR CONDITIONING

HWL

HIGH WATER LEVEL

IC

INTERRUPTING CAPACITY

ID

INDUCED DRAFT, INSIDE DIAMETER

IE

INVERT ELEVATION

I.F.

INSIDE FACE

IG

INSULATING, INSULATING GLASS

IN

INCH

INCAND

INCANDESCENT

INFL

INFLUENT

INJS

INJECTIONS

INST

INSTANTANEOUS

INSTM

INSTRUMENT, INSTRUMENTATION

INSUL

INSULATION

INVT

INVERT

IP

INLET PROTECTION, INSTRUMENTATION PANEL

IRRIG

IRRIGATION

ITG

INSULATED TEMPERED GLASS

ITX

ISOLATION TRANSFORMER

IU

INTAKE UNIT

IW

IRRIGATION WELL

J

JALOUSIE

JA

JAL-AWNING

JB

JUNCTION BOX

JAN

JANITOR

JCT

JUNCTION

JT

JOINT

K

KEY GROUP, KEY INTERLOCK

KIP

THOUSAND POUNDS

KIT

KITCHEN

K-PL

KICKPLATE

kPa

KILOPASCAL

KSK

KITCHEN SINK

KV

KILOVOLTS

KVA

KILOVOLT AMPERES

KVAR

KILOVOLT AMPERES REACTIVE

KW

KILOWATT

L

ANGLE, LENGTH

LA

LIGHTNING ARRESTER

LAB

LABORATORY

LAM

LAMINATE

LAT

LATITUDE

LB

POUND

LC

LIGHTING CONTACTOR

LD

COMBINATION LOUVER/DAMPER

LDG

LOADING DOCK

LEL

LOWER EXPLOSIVE LIMIT

LF

LINEAR FEET

LG

LONG

LH

LEFT HAND

LL

LIVE LOAD

LHR

LEFT HAND REVERSE

LLH

LONG LEG HORIZONTAL

LLV

LONG LEG VERTICAL

LNTL

LINTEL

LONG

LONGITUDINAL

LOS

LOCK-OUT STOP PUSHBUTTON

LP

LIGHT POLE, LIGHTING PANEL, LOCAL PANEL

LPT

LOW POINT

LR

LATCHING RELAY

LR

LOCAL-REMOTE

LR

LONG RADIUS

LS

LABORATORY SINK

LT

LEFT

LTG, LTS

LIGHTS OR LIGHTING

LTX

LIGHTING TRANSFORMER

LWL

LOW WATER LEVEL

MA

MANUAL-AUTO

MAS

MASONRY

MATL

MATERIAL

MAX

MAXIMUM

MB

MACHINE BOLT

MC

MASONRY CLEARANCE

MC

MODULATE-CLOSE

MCC

MOTOR CONTROL CENTER

MCJ

MASONRY CONTROL JOINT

MDO

MEDIUM DENSITY OVERLAY

MECH

MECHANICAL

MFD

MANUFACTURED

MFR

MANUFACTURER

MGD

MILLION GALLONS PER DAY

MH

MANHOLE, MOUNTING HEIGHT

MIN

MINIMUM

MISC

MISCELLANEOUS

MJ

MECHANICAL JOINT

MLO

MAIN LUGS ONLY

MMDW

DRY WEATHER MAXIMUM MONTH

MMP

MECHANICAL MOUNTING PANEL

MMWW

WET WEATHER MAXIMUM MONTH

MO

MANUAL OPERABLE, MASONRY OPENING

MP

METAL PANEL

MPa

MEGAPASCAL

MPU

MULTIPURPOSE UNIT

MS

MANUFACTURER'S STANDARD

MSC

MANUFACTURER SUPPLIED CABLE

MSR

GROUPED MOTOR CONTROL

MT

MOUNT

MTD

MOUNTED

MTG

MOUNTING

MTS

MANUAL TRANSFER SWITCH

MTS

MILL TYPE STEEL PIPE

MU

MULCHING

MV

MERCURY VAPOR

MWS

MAXIMUM WATER SURFACE

N

NORTH, NEUTRAL

NA

NOT APPLICABLE

NA

NON-AUTOMATIC

NC

NORMALLY CLOSED

NEUT

NEUTRAL

NG

NATURAL GAS

NGVD

NATIONAL GEODETIC VERTICAL DATUM

NIC

NOT IN CONTRACT

N.O.

NORMALLY OPEN

NO., #

NUMBER

NOM

NOMINAL

NP

NON-PROTECTED

NPT

NATIONAL PIPE THREADS

NS

NON-SHRINK

NTS

NOT TO SCALE

O2

OXYGEN

O TO O

OUT TO OUT

OA

OVERALL, ODOROUS AIR

OC

ON CENTER

OC

OPEN-CLOSE (O)

OCA

OPEN-CLOSE-AUTO

OCR

OPEN-CLOSE-REMOTE

OD

OUTSIDE DIAMETER, OVERFLOW DRAIN

O.F.

OUTSIDE FACE

OFCl

OWNER FURNISHED, CONTRACTOR INSTALLED

OFOI

OWNER FURNISHED, OWNER INSTALLED

OL

OVERLOAD RELAY

OO

ON-OFF

OOA

ON-OFF-AUTO

OOR

ON-OFF-REMOTE

OP

OPAQUE PANEL, OUTLET PROTECTION

OPER

OPERATOR

OPNG

OPENING

OPP

OPPOSITE

OSA

OUTSIDE AIR

OSC

OPEN-STOP-CLOSE

OSD

OPEN SITE DRAIN

OWSJ

OPEN WEB STEEL JOIST

OZ

OUNCE

P

PROJECTED

P

PILASTER, PIPE

PAVT

PAVER TILE

PB

PUSHBUTTON SWITCH

PC

POINT OF CURVE, PHOTOCELL

PC

PRECAST CONCRETE PANEL

PCCP

PRESTRESSED CONCRETE CYLINDER PIPE

PCV

PRESSURE CONTROL VALVE

PE

PLAIN END

PED

PEDESTAL, PEDESTRIAN

PEP

POLYETHYLENE PIPE

PEN.

PENETRATION

PFC

POUNDS PER CUBIC FOOT

PH

PENTHOUSE

pH

HYDROGEN ION CONCENTRATION

PH

PHASE

PI

POINT OF INTERSECTION

PIT

PILOT TUBE TEST STATION

PJF

PREMOULDED JOINT FILLER

PL

PLATE (STEEL)

PL

PROPERTY LINE

PLAM

PLASTIC LAMINATE

PLAS

PLASTER, PLASTIC

PLC

PROGRAMMABLE LOGIC CONTROLLER

PLYWD

PLYWOOD

PN

POINT NUMBER

PNL

PANEL

PP

POWER POLE

P-P

PUSH-PULL

PPL

POLYPROPYLENE LINED

PR

PAIR

PRC

POINT OF REVERSE CURVE

PRCST

PRECAST

PREFAB

PREFABRICATION

PRES

PRESSURE

PRI

PRIMARY

PRM

PERMANENT REFERENCED MARKER

PROJ

PROJECTION

PROP

PROPERTY

PS

PLASTIC SHEET, POLYCARBONATE SHEET

PS

PAINT SYSTEM

PSF

POUNDS PER SQUARE FOOT

PSI

POUNDS PER SQUARE INCH

PSIG

POUNDS PER SQUARE INCH, GAUGE

PT

POINT OF TANGENCY

PT

POTENTIAL TRANSFORMER

PT

PRESSURE TREATED

PTD

PAPER TOWEL DISPENSER

PTN

PARTITION

PV

PLUG VALVE

PVC

POLYVINYL CHLORIDE

PVI

POINT OF VERTICAL INTERSECTION

PVMT

PAVEMENT

PVT

POINT OF VERTICAL TANGENCY

QAA

AVERAGE FLOW

QMM

MAXIMUM 30 DAY FLOW

QPI

PEAK INSTANTANEOUS FLOW

QPP

PEAK PUMPING FLOW

QT

QUARRY TILE

R

RISER

R OR RAD

RADIUS

RA

RETURN AIR

RC

REINFORCED CONCRETE

RCP

REINFORCED CONCRETE PIPE

RCPT

RECEPTACLE

RD

ROAD, ROOF DRAIN

RDCR

REDUCER

RDW

REDWOOD

RECIR

RECIRCULATION

REF

REFER OR REFERENCE

REFR

REFRIGERATE, REFRIGERANT

REINF

REINFORCED, REINFORCING, REINFORCE

REQD

REQUIRED

RESIL

RESILIENT

RFS

ROLL-UP FIRE SHUTTER

RH

RIGHT HAND

RH

ROD HOLE

RHR

RIGHT HAND REVERSE

RL

RAIN LEADER

RLD

RAIN LOAD

RLS

RUBBER LINED STEEL

RM

ROOM

RO

ROUGH OPENING

ROL

RAISE-OFF-LOWER

RPM

REVOLUTIONS PER MINUTE

RR

RIPRAP

NOTES:

1. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

GENERAL NOTE:

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CANAL IMPROVEMENTS PROJECT
STA 42+75 THRU STA 78+00
NORTH SIDE CANAL COMPANY
JEROME, IDAHO

GENERAL

ABBREVIATIONS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

DATE

MAY 2025

PROJ

D3737000

DWG

G-004

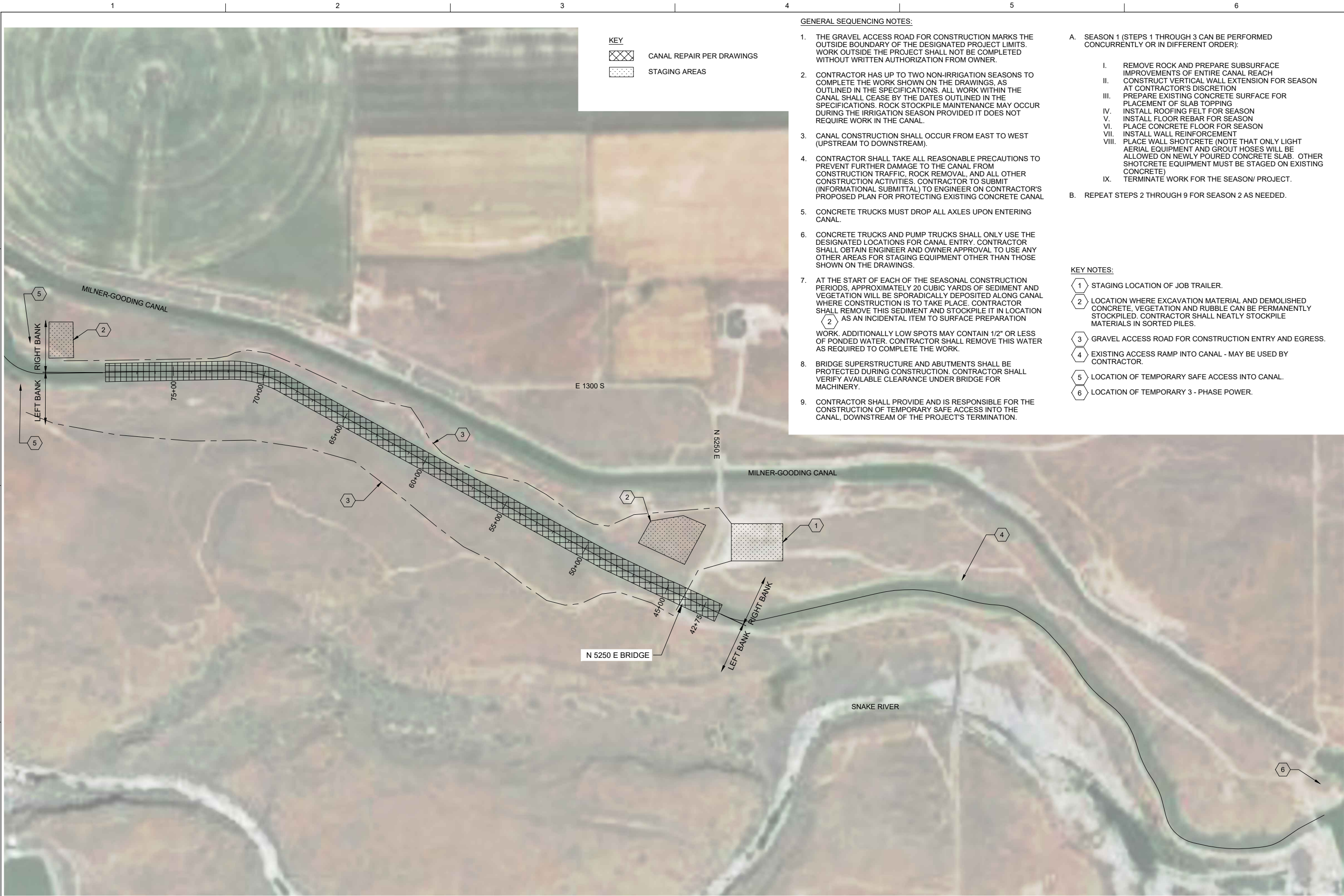
SHEET

4 of 30

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GENERAL SEQUENCING NOTES:

1. THE GRAVEL ACCESS ROAD FOR CONSTRUCTION MARKS THE OUTSIDE BOUNDARY OF THE DESIGNATED PROJECT LIMITS. WORK OUTSIDE THE PROJECT SHALL NOT BE COMPLETED WITHOUT WRITTEN AUTHORIZATION FROM OWNER.
2. CONTRACTOR HAS UP TO TWO NON-IRRIGATION SEASONS TO COMPLETE THE WORK SHOWN ON THE DRAWINGS, AS OUTLINED IN THE SPECIFICATIONS. ALL WORK WITHIN THE CANAL SHALL CEASE BY THE DATES OUTLINED IN THE SPECIFICATIONS. ROCK STOCKPILE MAINTENANCE MAY OCCUR DURING THE IRRIGATION SEASON PROVIDED IT DOES NOT REQUIRE WORK IN THE CANAL.
3. CANAL CONSTRUCTION SHALL OCCUR FROM EAST TO WEST (UPSTREAM TO DOWNSTREAM).
4. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT FURTHER DAMAGE TO THE CANAL FROM CONSTRUCTION TRAFFIC, ROCK REMOVAL, AND ALL OTHER CONSTRUCTION ACTIVITIES. CONTRACTOR TO SUBMIT (INFORMATIONAL SUBMITTAL) TO ENGINEER ON CONTRACTOR'S PROPOSED PLAN FOR PROTECTING EXISTING CONCRETE CANAL.
5. CONCRETE TRUCKS MUST DROP ALL AXLES UPON ENTERING CANAL.
6. CONCRETE TRUCKS AND PUMP TRUCKS SHALL ONLY USE THE DESIGNATED LOCATIONS FOR CANAL ENTRY. CONTRACTOR SHALL OBTAIN ENGINEER AND OWNER APPROVAL TO USE ANY OTHER AREAS FOR STAGING EQUIPMENT OTHER THAN THOSE SHOWN ON THE DRAWINGS.
7. AT THE START OF EACH OF THE SEASONAL CONSTRUCTION PERIODS, APPROXIMATELY 20 CUBIC YARDS OF SEDIMENT AND VEGETATION WILL BE SPORADICALLY DEPOSITED ALONG CANAL WHERE CONSTRUCTION IS TO TAKE PLACE. CONTRACTOR SHALL REMOVE THIS SEDIMENT AND STOCKPILE IT IN LOCATION AS AN INCIDENTAL ITEM TO SURFACE PREPARATION

2

WORK. ADDITIONALLY LOW SPOTS MAY CONTAIN 1/2" OR LESS OF PONDED WATER. CONTRACTOR SHALL REMOVE THIS WATER AS REQUIRED TO COMPLETE THE WORK.
8. BRIDGE SUPERSTRUCTURE AND ABUTMENTS SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL VERIFY AVAILABLE CLEARANCE UNDER BRIDGE FOR MACHINERY.
9. CONTRACTOR SHALL PROVIDE AND IS RESPONSIBLE FOR THE CONSTRUCTION OF TEMPORARY SAFE ACCESS INTO THE CANAL, DOWNSTREAM OF THE PROJECT'S TERMINATION.

- A. SEASON 1 (STEPS 1 THROUGH 3 CAN BE PERFORMED CONCURRENTLY OR IN DIFFERENT ORDER):
- I. REMOVE ROCK AND PREPARE SUBSURFACE IMPROVEMENTS OF ENTIRE CANAL REACH
 - II. CONSTRUCT VERTICAL WALL EXTENSION FOR SEASON AT CONTRACTOR'S DISCRETION
 - III. PREPARE EXISTING CONCRETE SURFACE FOR PLACEMENT OF SLAB TOPPING
 - IV. INSTALL ROOFING FELT FOR SEASON
 - V. INSTALL FLOOR REBAR FOR SEASON
 - VI. PLACE CONCRETE FLOOR FOR SEASON
 - VII. INSTALL WALL REINFORCEMENT
 - VIII. PLACE WALL SHOTCRETE (NOTE THAT ONLY LIGHT AERIAL EQUIPMENT AND GROUT HOSES WILL BE ALLOWED ON NEWLY POURED CONCRETE SLAB. OTHER SHOTCRETE EQUIPMENT MUST BE STAGED ON EXISTING CONCRETE)
 - IX. TERMINATE WORK FOR THE SEASON/ PROJECT.
- B. REPEAT STEPS 2 THROUGH 9 FOR SEASON 2 AS NEEDED.

KEY NOTES:

- 1 STAGING LOCATION OF JOB TRAILER.
- 2 LOCATION WHERE EXCAVATION MATERIAL AND DEMOLISHED CONCRETE, VEGETATION AND RUBBLE CAN BE PERMANENTLY STOCKPILED. CONTRACTOR SHALL NEATLY STOCKPILE MATERIALS IN SORTED PILES.
- 3 GRAVEL ACCESS ROAD FOR CONSTRUCTION ENTRY AND EGRESS.
- 4 EXISTING ACCESS RAMP INTO CANAL - MAY BE USED BY CONTRACTOR.
- 5 LOCATION OF TEMPORARY SAFE ACCESS INTO CANAL.
- 6 LOCATION OF TEMPORARY 3 - PHASE POWER.

PROJECT SEQUENCING, STAGING, AND ACCESS PLAN

1" = 250'



Jacobs

GENERAL
PROJECT SEQUENCING, STAGING,
AND ACCESS PLAN

JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CANAL IMPROVEMENTS PROJECT
STA 42+75 THRU STA 78+00
NORTH SIDE CANAL COMPANY
JEROME, IDAHO

NO.	DATE	DSGN

C WEBSTER

DR

P ROBINSON

BY

APVD

D STOKER

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE MAY 2025

PROJ D3737000

DWG G-101

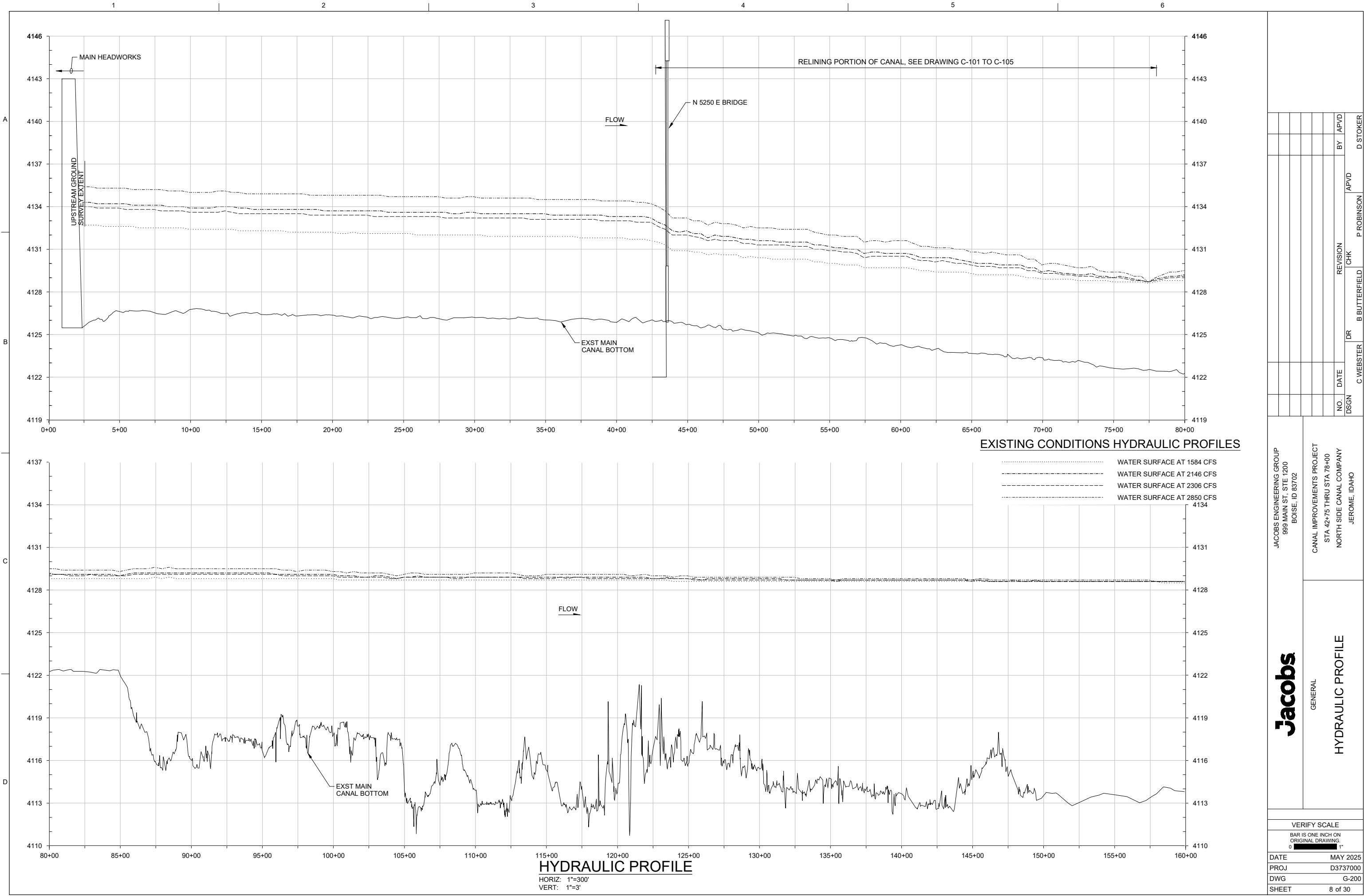
SHEET 7 of 30

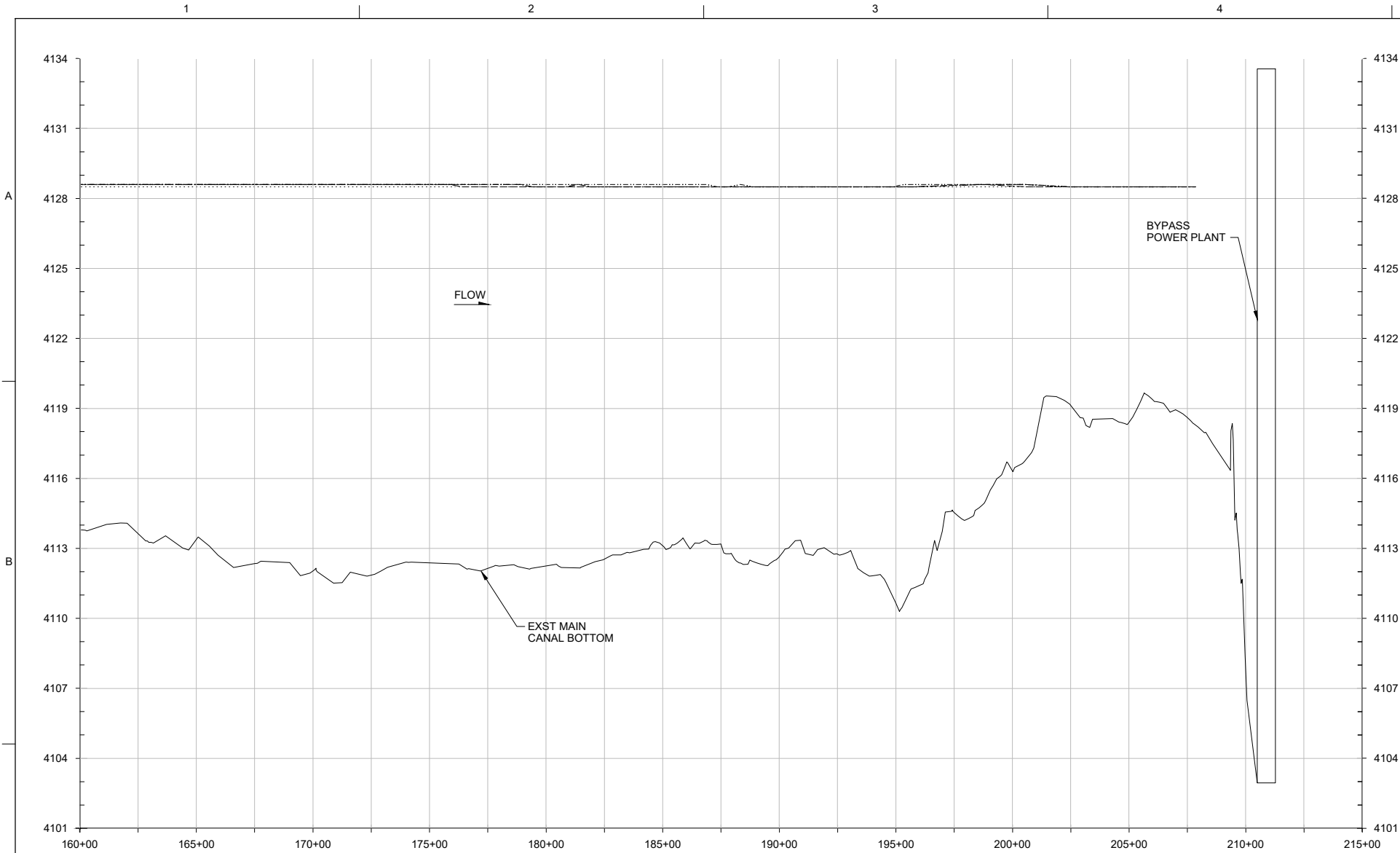
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HYDRAULIC PROFILE - CONTINUED
HORIZ: 1"=300'
VERT: 1"=3'

EXISTING CONDITIONS HYDRAULIC PROFILES

.....	WATER SURFACE AT 1584 CFS
-----	WATER SURFACE AT 2146 CFS
-----	WATER SURFACE AT 2306 CFS
.....	WATER SURFACE AT 2850 CFS



GENERAL
HYDRAULIC PROFILE
CONTINUED

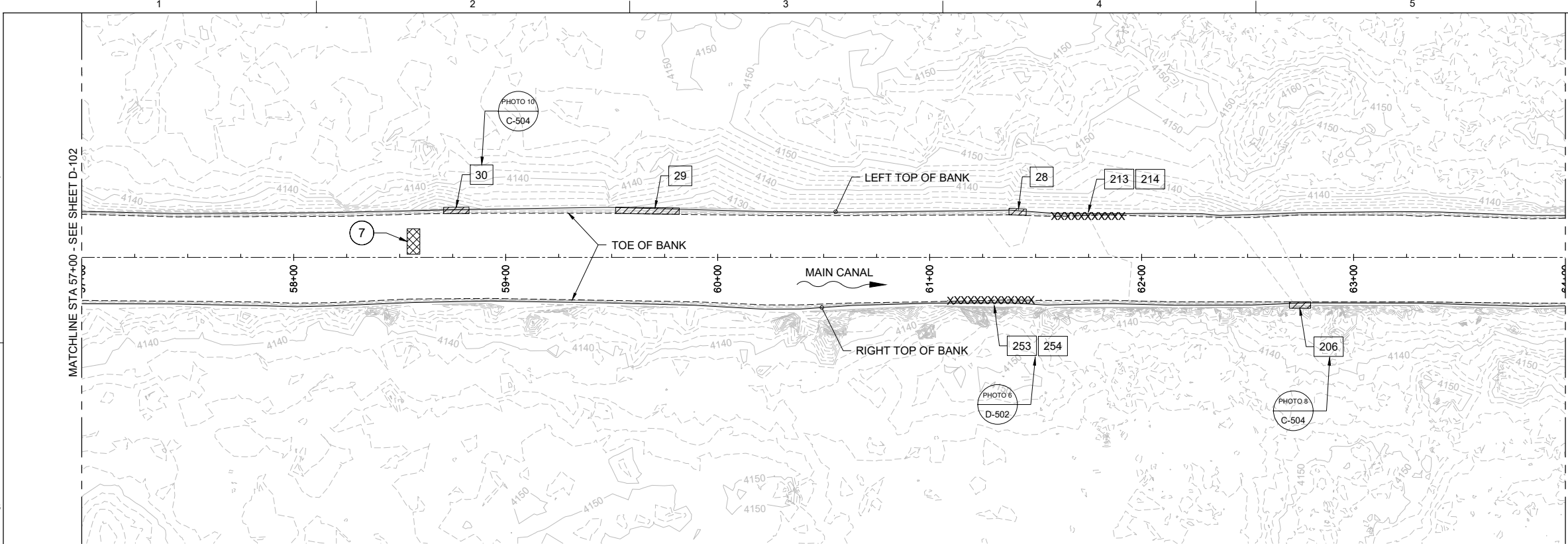
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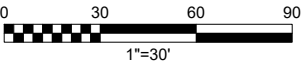
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NO.	DATE	DR	CHK	REVISION	BY	APVD

C WEBSTER
B BUTTERFIELD
P ROBINSON
D STOKER



PLAN
1" = 30'



- NOTES:
- SEE DETAIL 2/D-501 FOR SUBSURFACE IMPROVEMENT DETAIL.
 - SEE DETAIL 1/C-503 FOR WALL REPLACEMENT DETAIL.
 - SEE DETAIL 1/D-501 FOR ROCK REMOVAL DETAIL.
 - REMOVE ALL ORGANICS WHICH INTERFERE WITH CANAL'S CROSS SECTION. SEE SHEET D-502 FOR EXAMPLE PHOTOS.
 - REMOVE ALL LOOSE ROCK BEHIND CANAL WALL. SEE SHEET D-502 FOR EXAMPLE PHOTOS.
 - WORK ITEMS LOCATED BY ONE STATION ARE CENTERED ON THAT STATION. WORK ITEMS LOCATED BY TWO STATIONS EXTEND THE APPROXIMATE LENGTH BETWEEN THE TWO STATIONS.
 - DIMENSIONS LISTED IN TABLE ARE APPROXIMATE ONLY AND NOT INTENDED TO SUPERSEDE WORK REQUIREMENTS SHOWN IN DETAILS.

LEGEND



SUBSURFACE IMPROVEMENT



WALL REPLACEMENT



ROCK REMOVAL

Subsurface Improvement Station / Offset Table					
PN	Station (FT)	Offset (FT) (-=LEFT) (+=RIGHT)	Length (FT)	Width (FT)	Area (SF)
7	58+56.58	-7.46	6	12	72

Right Wall Replacement Station Table				
PN	Station (FT)	Length (FT)	Height (FT)	Area (SF)
###	62+74.71	10	8	80

Left Wall Replacement Station Table				
PN	Station (FT)	Length (FT)	Height (FT)	Area (SF)
30	58+76.77	12	8	96
29	59+66.85	30	8	240
28	61+41.56	8	8	64

Right Rock Removal Station Table					
PN	Station (FT)	Length (FT)	Height (FT)	Depth (FT)	Volume (CY)
253	61+09.25	38.43	3	2	8.5
254	61+47.68				

Left Rock Removal Station Table					
PN	Station (FT)	Length (FT)	Height (FT)	Depth (FT)	Volume (CY)
214	61+58.28	33.35	3	2	7.4
213	61+91.63				

Jacobs

CIVIL
EXISTING CANAL AND ROCK
ALTERATION PLAN
STA 57+00 TO STA 64+00

JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CANAL IMPROVEMENTS PROJECT
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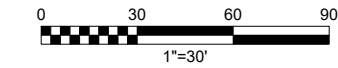
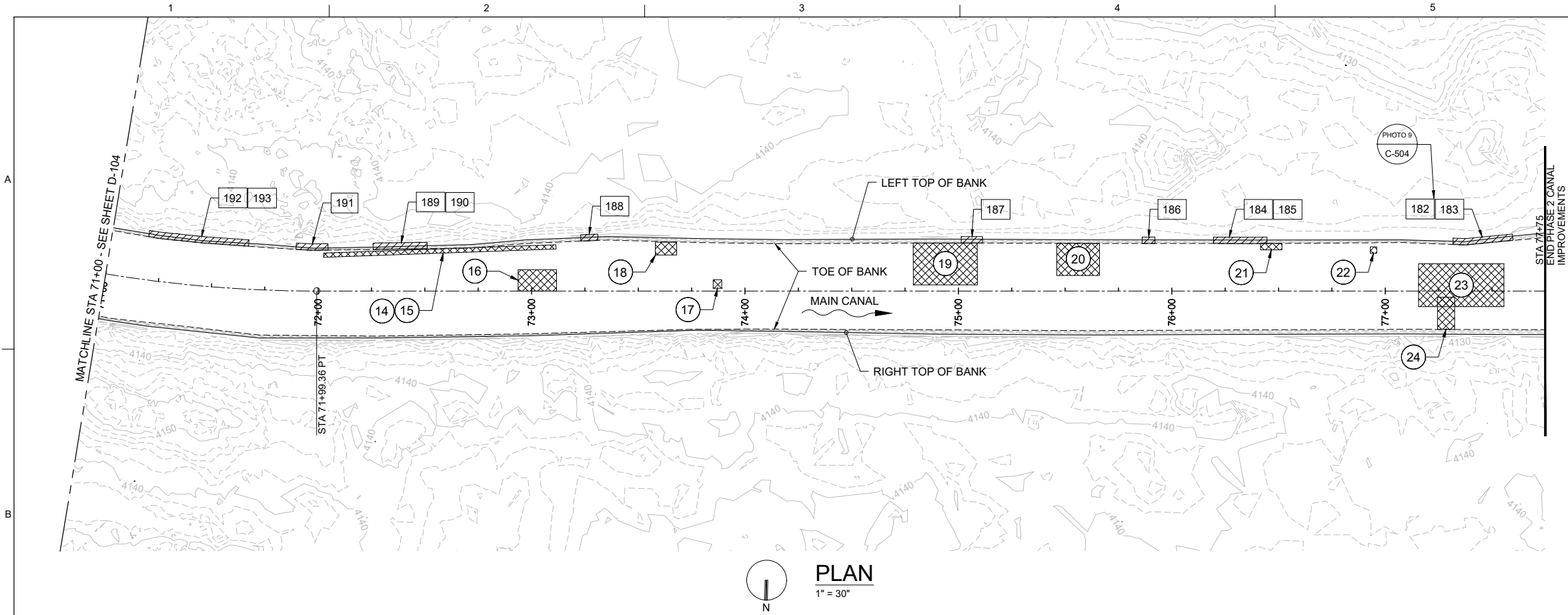
NO.	DATE	DSGN	DR	REVISION	CHK	APVD

C WEBSTER

B BUTTERFIELD
P ROBINSON
D STOKER

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VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	1"
DATE	MAY 2025
PROJ	D3737000
DWG	D-103
SHEET	12 of 30



- NOTES:
- SEE DETAIL 2/D-501 FOR SUBSURFACE IMPROVEMENT DETAIL.
 - SEE DETAIL 1/C-503 FOR WALL REPLACEMENT DETAIL.
 - SEE DETAIL 1/D-501 FOR ROCK REMOVAL DETAIL.
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LEGEND

-  SUBSURFACE IMPROVEMENT
-  WALL REPLACEMENT
-  ROCK REMOVAL

Subsurface Improvement Station / Offset Table					
PN	Station (FT)	Offset (FT) (-=LEFT +=RIGHT)	Length (FT)	Width (FT)	Area (SF)
14	72+01.90	-16.89	109.6	2	219
15	73+11.50	-20.75			
16	73+02.73	-5.04			
17	73+87.10	-3.33	4	4	16
18	73+63.08	-19.91	10	6	60
19	74+93.90	-12.89	30	20	600
20	75+56.16	-16.46	20	15	300
21	76+46.66	-20.84	10	3	30
22	76+94.51	-19.22	3	3	9
23	77+35.65	-2.78	40	20	800
24	77+28.52	10.36	8	15	120

Left Wall Replacement Station Table					
PN	Station (FT)	Length (FT)	Height (FT)	Area (SF)	
193	71+17.76	48.58	8	389	
192	71+66.34				
191	71+97.08				
190	72+25.79	25.4	8	203	
189	72+51.19				
188	73+27.15				
187	75+06.37	10	8	80	
186	75+89.20	4	8	32	
185	76+19.62	25.02	8	200	
184	76+44.64				
183	77+31.53				
182	77+60.09	28.56	8	228	

JACOBS ENGINEERING GROUP
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BOISE, ID 83702

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NORTH SIDE CANAL COMPANY
JEROME, IDAHO

JACOBS
CIVIL
EXISTING CANAL AND ROCK
ALTERATION PLAN
STA 71+00 TO STA 77+75

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE MAY 2025

PROJ D3737000

DWG D-105

SHEET 14 of 30

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NO. DATE DSGN

DR

C WEBSTER

CHK

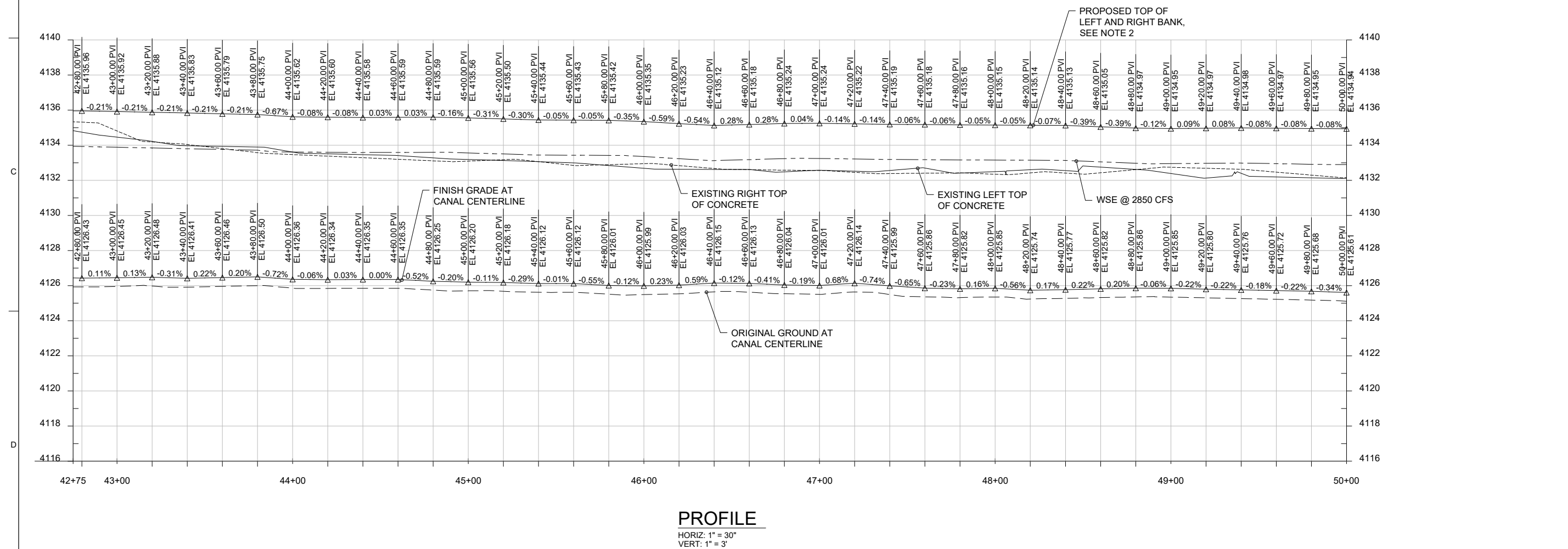
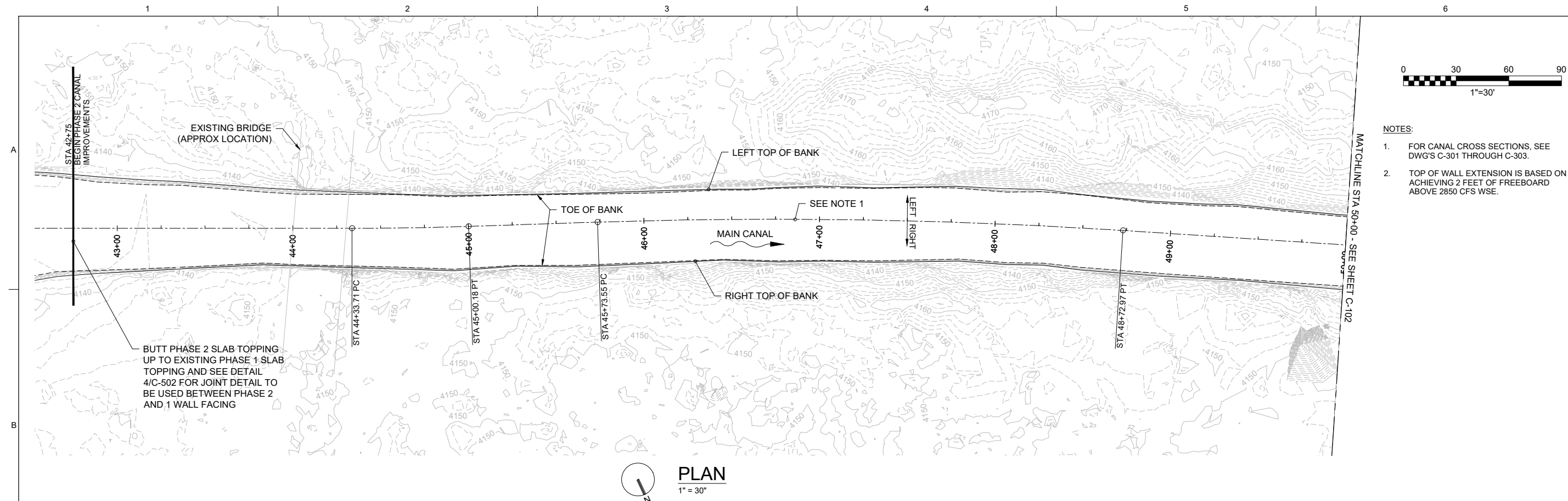
P ROBINSON

BY

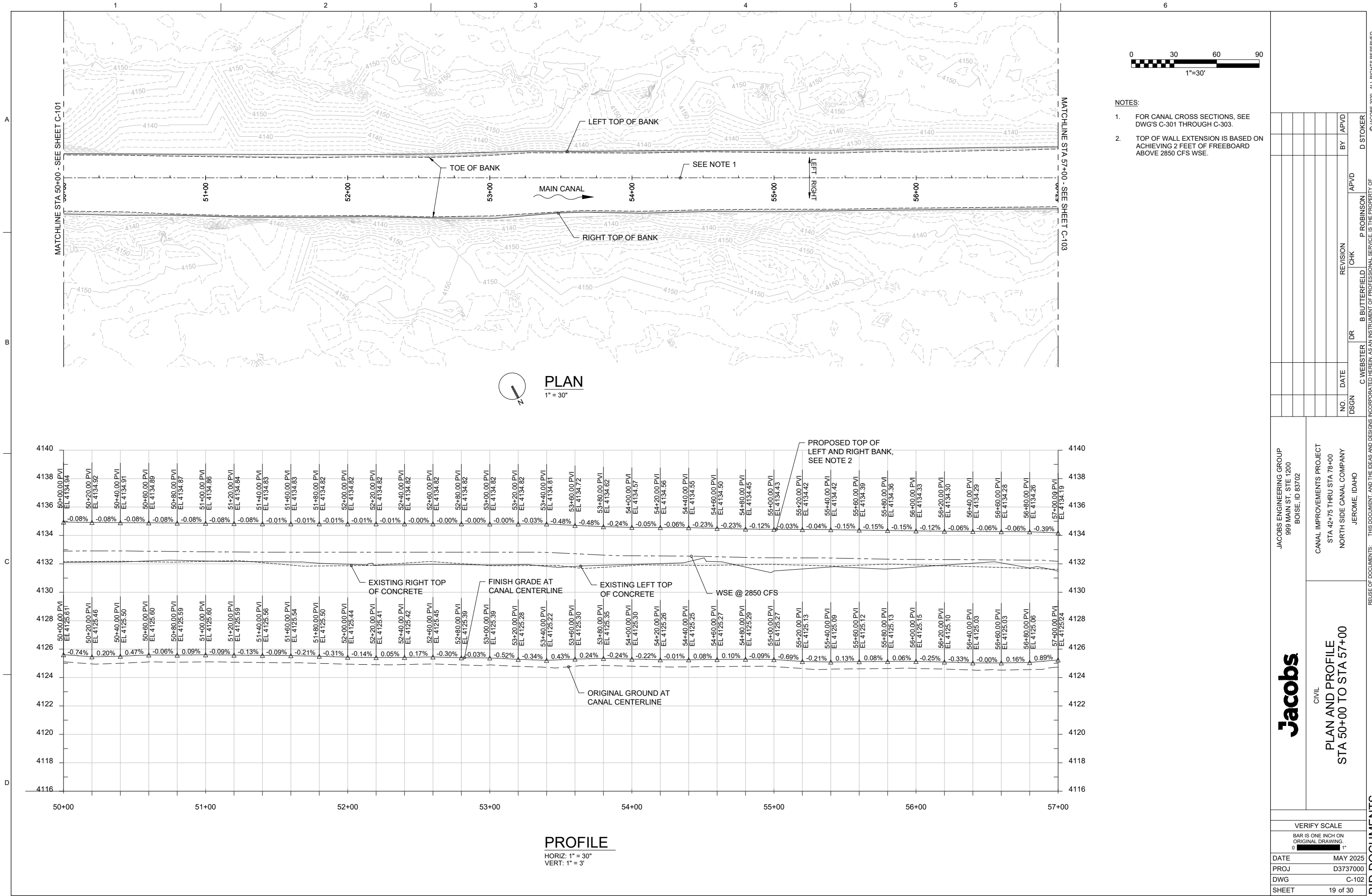
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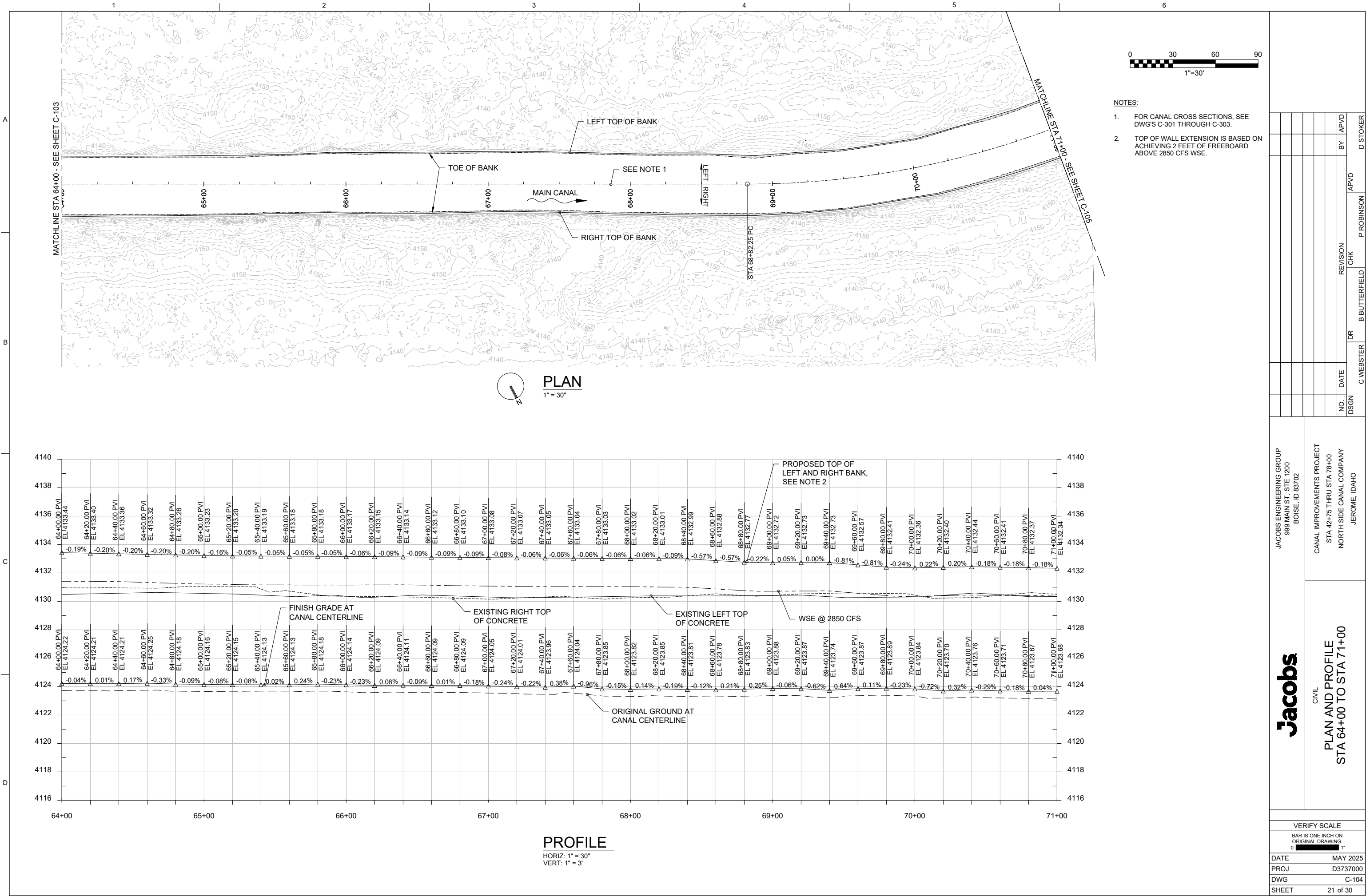
D STOKER

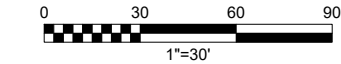
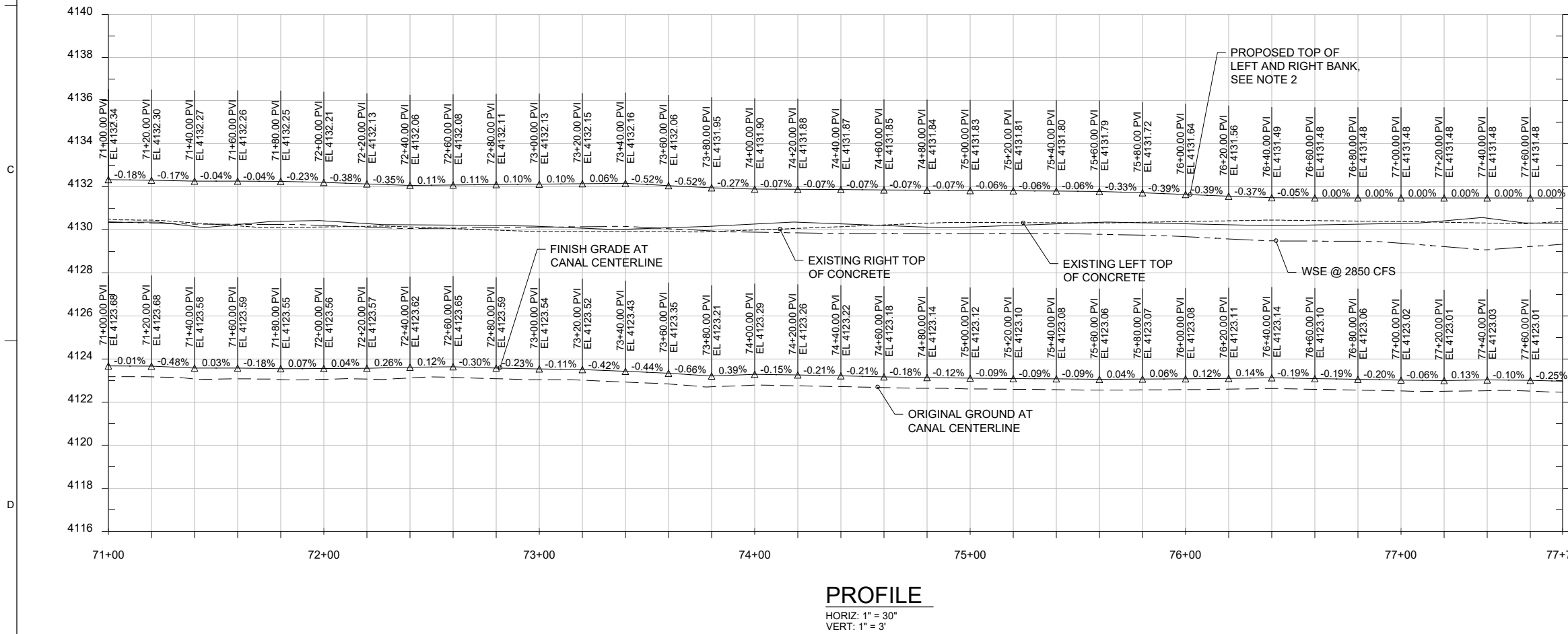
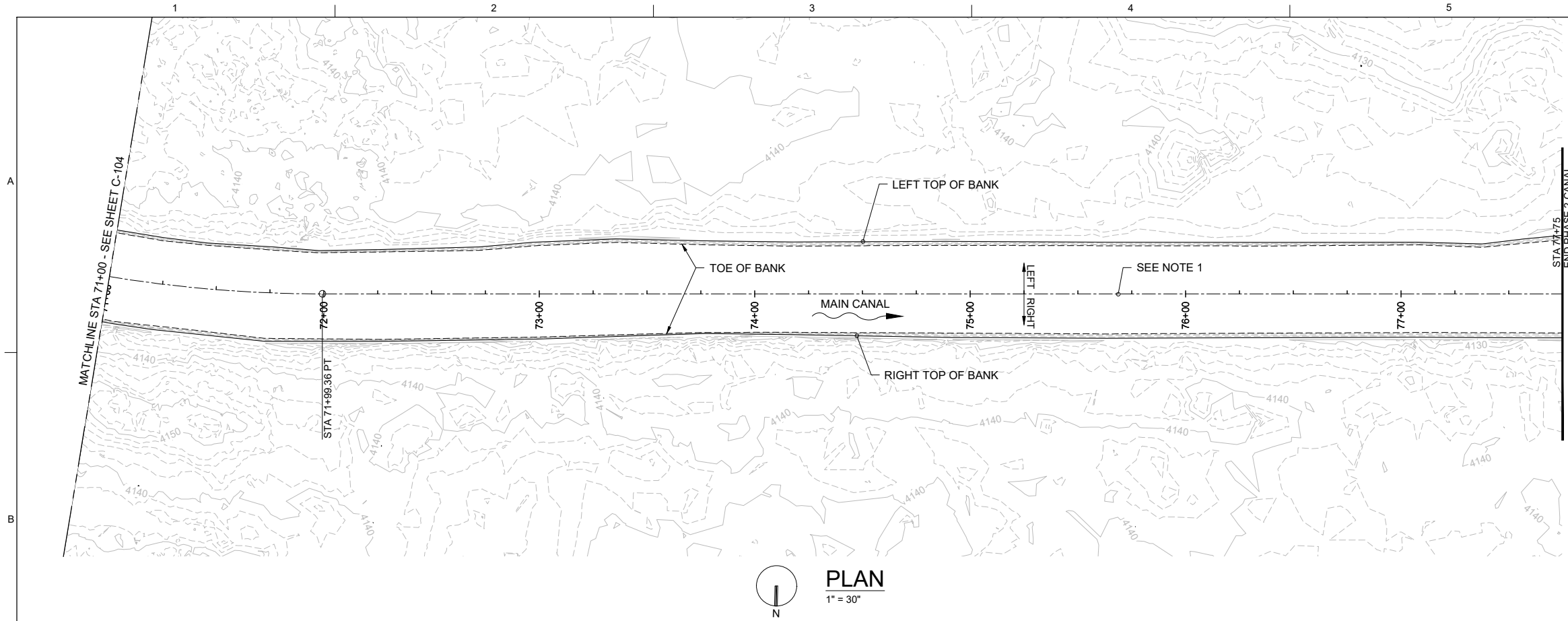
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JACOBS CIVIL PLAN AND PROFILE STA 42+75 TO STA 50+00	JACOBS ENGINEERING GROUP 999 MAIN ST. STE 1200 BOISE, ID 83702 CANAL IMPROVEMENTS PROJECT STA 42+75 THRU STA 78+00 NORTH SIDE CANAL COMPANY JEROME IDAHO	NO.	DATE	REVISION	APVD																
		DSGN		CHK																	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0"  1"																					
DATE		MAY 2025																			
PROJ		D3737000																			
DWG		C-101																			
SHEET		18 of 30																			
		C WEBSTER		DR		B BUTTERFIELD		P ROBINSON		D STOKER											



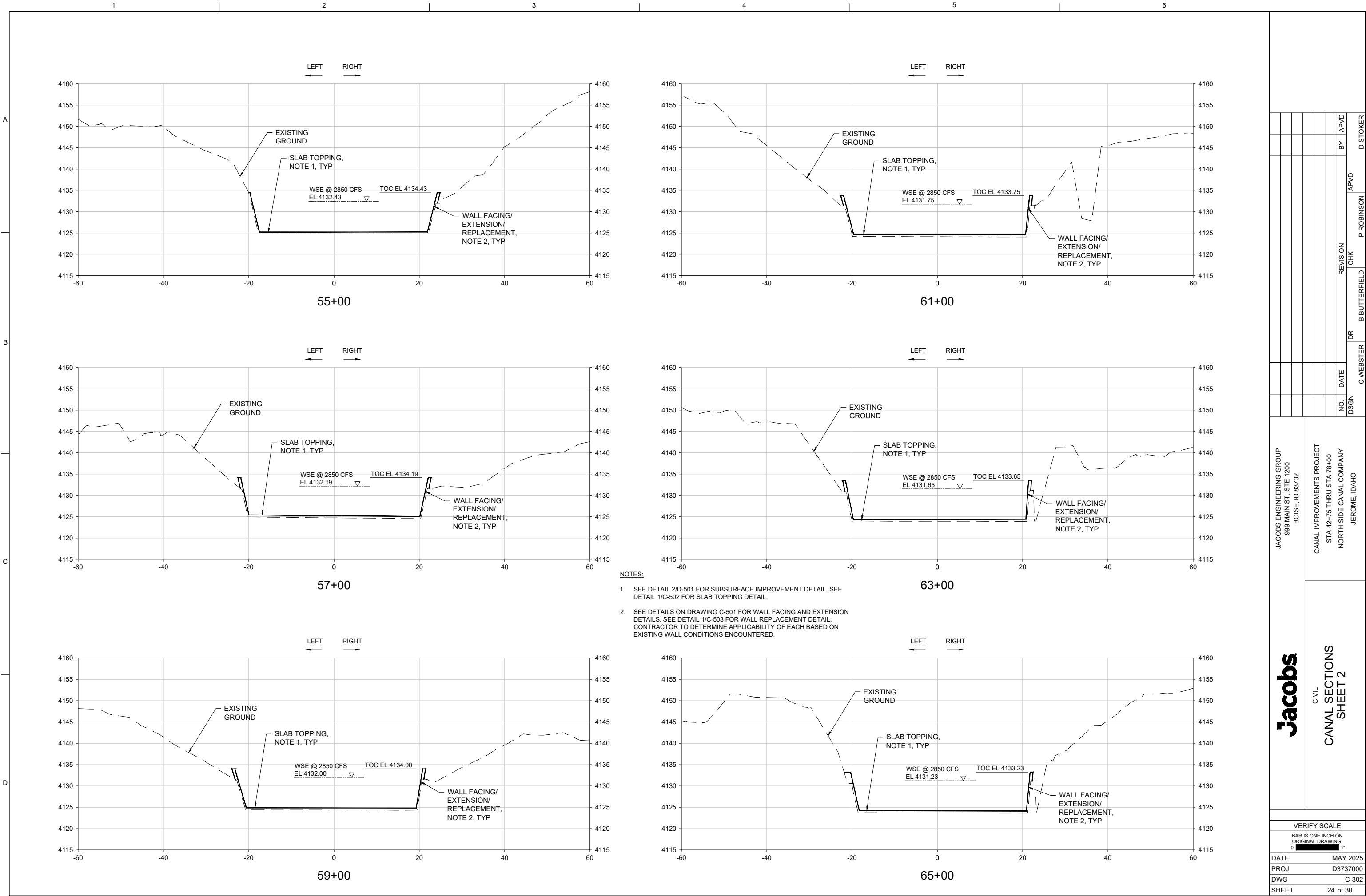




NOTES:

- FOR CANAL CROSS SECTIONS, SEE DWG'S C-301 THROUGH C-303.
- TOP OF WALL EXTENSION IS BASED ON ACHIEVING 2 FEET OF FREEBOARD ABOVE 2850 CFS WSE.
- SEE DETAILS 2, 3, 4 & 5 ON DRAWING C-503 FOR END OF PROJECT/SEASON SLAB TOPPING AND WALL FACING LINER DETAILS.

JACOBS ENGINEERING GROUP 999 MAIN ST., STE 1200 BOISE, ID 83702		CANAL IMPROVEMENTS PROJECT STA 42+75 THRU STA 78+00 NORTH SIDE CANAL COMPANY JEROME, IDAHO		C WEBSTER		B BUTTERFIELD		P ROBINSON		D STOKER	
NO.		DATE		DSGN		DR		REVISION		BY	
APVD		APVD		APVD		APVD		APVD		APVD	
VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE		PROJ		DWG		SHEET	
MAY 2025		D3737000		C-105		22 of 30		FILENAME: 005-C-105_D3737000.dwg		BID DOCUMENTS	



←

→

LEFT

RIGHT

4160

4155

4150

4145

4140

4135

4130

4125

4120

4115

60

40

20

0

-20

-40

-60

EXISTING GROUND

SLAB TOPPING,
NOTE 1, TYP

WSE @ 2850 CFS
EL 4131.65

TOC EL 4133.65

WALL FACING/
EXTENSION/
REPLACEMENT,
NOTE 2, TYP

63+00

←

→

LEFT

RIGHT

4160

4155

4150

4145

4140

4135

4130

4125

4120

4115

60

40

20

0

-20

-40

-60

EXISTING GROUND

SLAB TOPPING,
NOTE 1, TYP

WSE @ 2850 CFS
EL 4132.00

TOC EL 4134.00

WALL FACING/
EXTENSION/
REPLACEMENT,
NOTE 2, TYP

59+00

←

→

LEFT

RIGHT

4160

4155

4150

4145

4140

4135

4130

4125

4120

4115

60

40

20

0

-20

-40

-60

EXISTING GROUND

SLAB TOPPING,
NOTE 1, TYP

WSE @ 2850 CFS
EL 4131.23

TOC EL 4133.23

WALL FACING/
EXTENSION/
REPLACEMENT,
NOTE 2, TYP

65+00

NOTES:

1. SEE DETAIL 2/D-501 FOR SUBSURFACE IMPROVEMENT DETAIL. SEE DETAIL 1/C-502 FOR SLAB TOPPING DETAIL.

2. SEE DETAILS ON DRAWING C-501 FOR WALL FACING AND EXTENSION DETAILS. SEE DETAIL 1/C-503 FOR WALL REPLACEMENT DETAIL. CONTRACTOR TO DETERMINE APPLICABILITY OF EACH BASED ON EXISTING WALL CONDITIONS ENCOUNTERED.

JACOBS

CIVIL

CANAL SECTIONS
SHEET 2

JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CANAL IMPROVEMENTS PROJECT
STA 42+75 THRU STA 78+00
NORTH SIDE CANAL COMPANY
JEROME, IDAHO

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE

MAY 2025

PROJ

D3737000

DWG

C-302

SHEET

24 of 30

DR

NO.

DATE

REVISION

CHK

APVD

BY

APVD

C WEBSTER

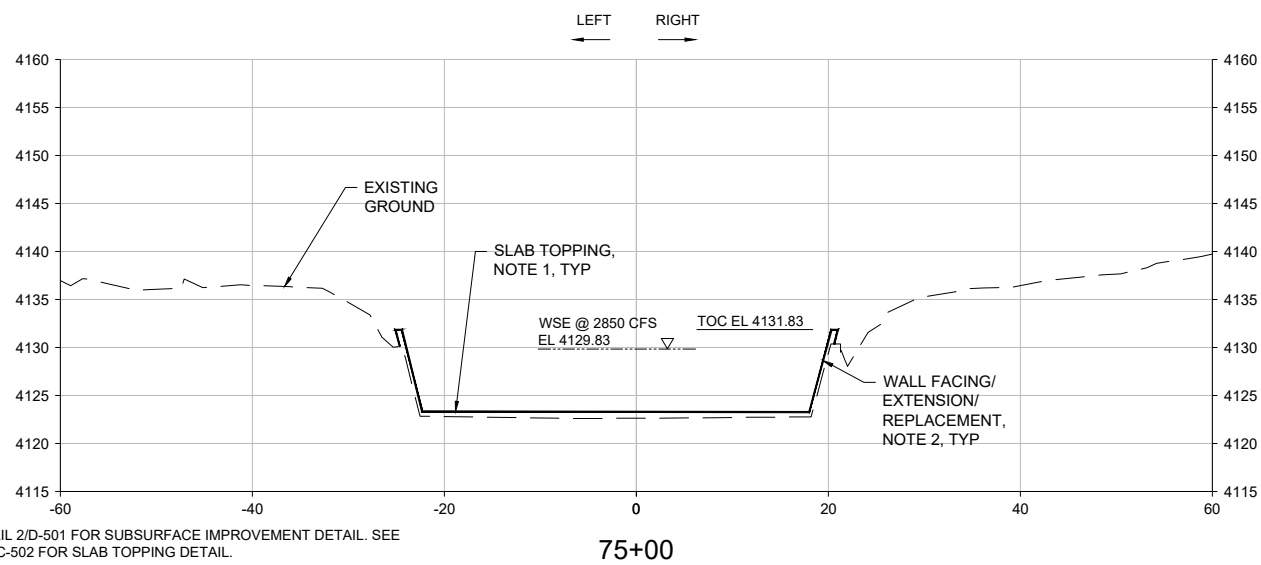
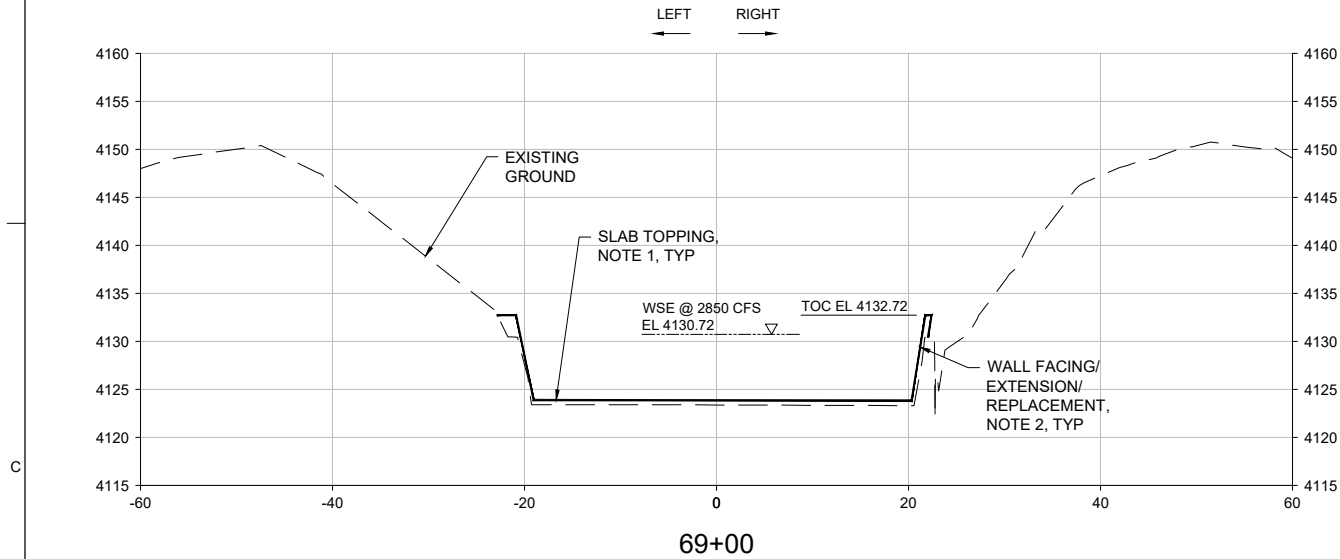
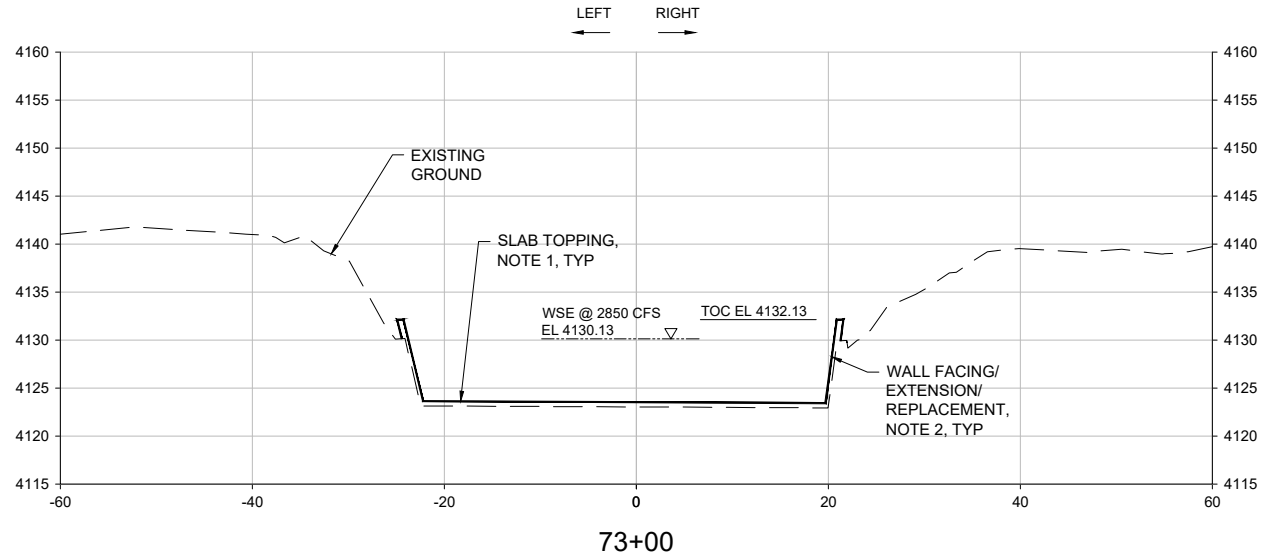
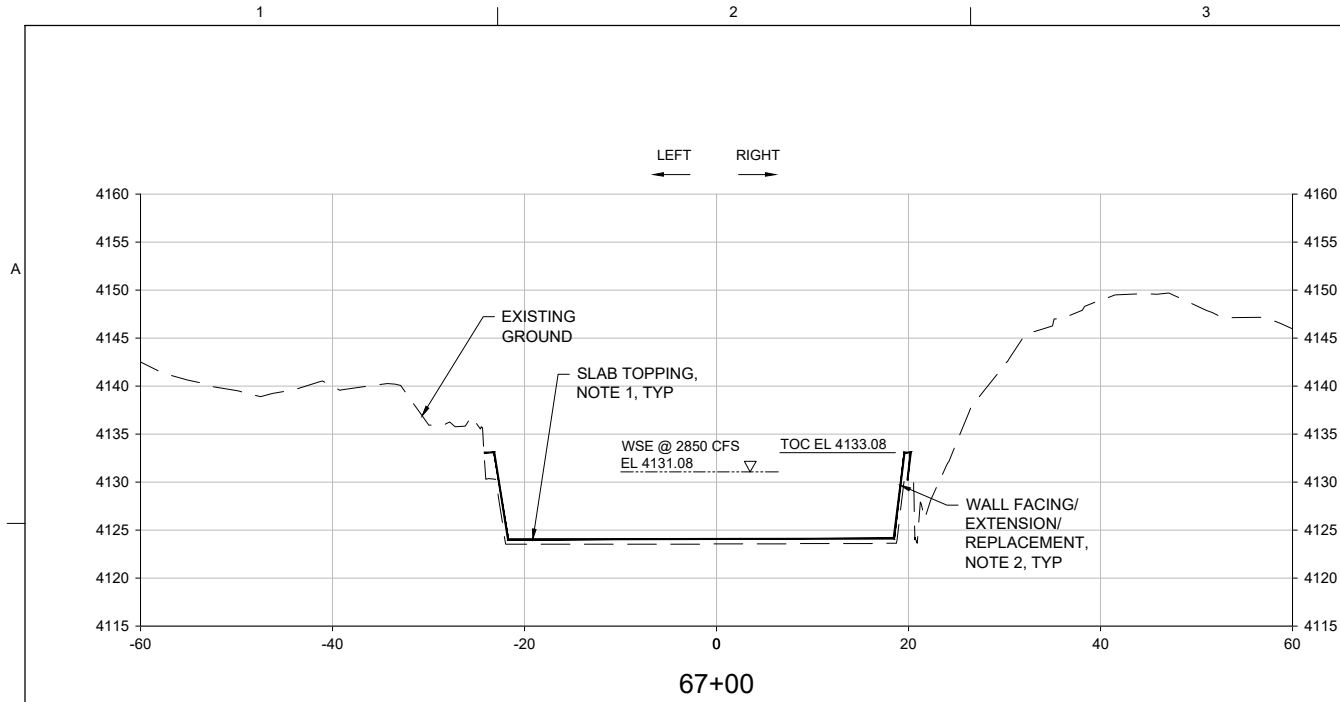
B BUTTERFIELD

P ROBINSON

D STOKER

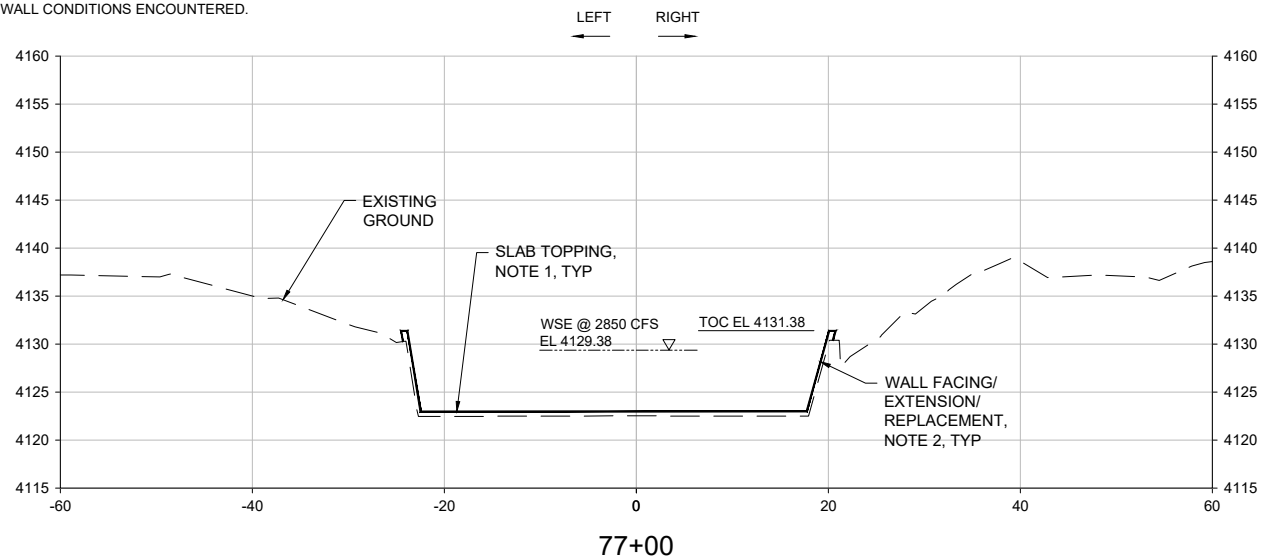
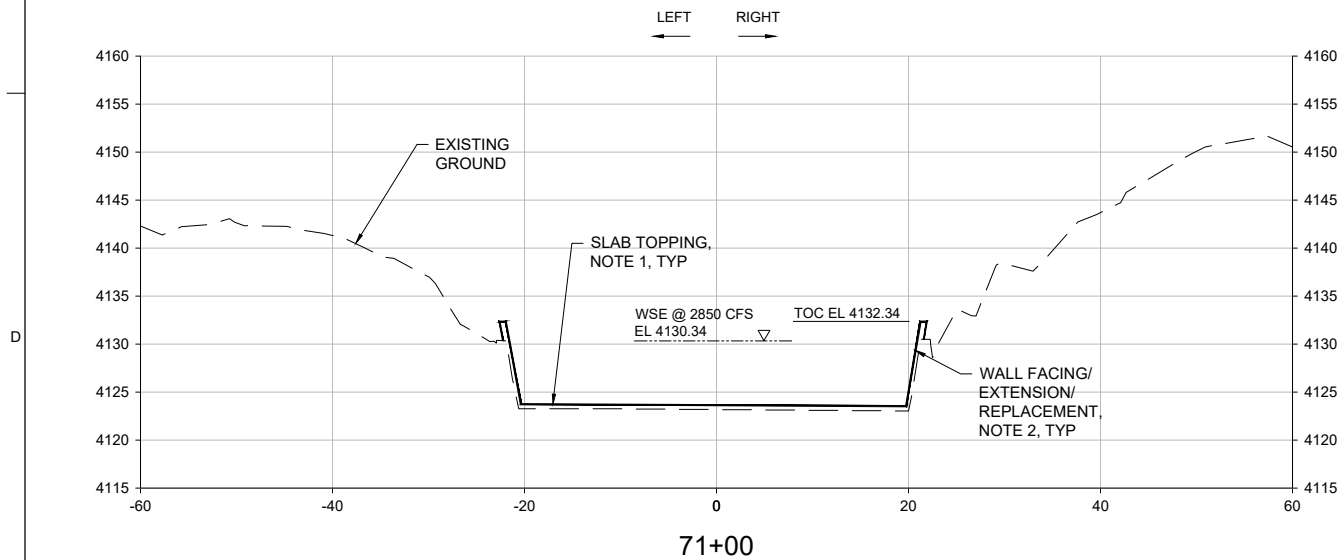
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NOTES:

- SEE DETAIL 2/D-501 FOR SUBSURFACE IMPROVEMENT DETAIL. SEE DETAIL 1/C-502 FOR SLAB TOPPING DETAIL.
- SEE DETAILS ON DRAWING C-501 FOR WALL FACING AND EXTENSION DETAILS. SEE DETAIL 1/C-503 FOR WALL REPLACEMENT DETAIL. CONTRACTOR TO DETERMINE APPLICABILITY OF EACH BASED ON EXISTING WALL CONDITIONS ENCOUNTERED.



JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CANAL IMPROVEMENTS PROJECT
STA 42+75 THRU STA 78+00
NORTH SIDE CANAL COMPANY
JEROME, IDAHO

JACOBS
CIVIL
CANAL SECTIONS
SHEET 3

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
DATE MAY 2025
PROJ D3737000
DWG C-303
SHEET 25 of 30

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P ROBINSON
B BUTTERFIELD
C WEBSTER
D STOKER
APVD BY APVD
CHK
REVISION
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1

2

3

4

5

6

KEYED DETAIL NOTES:

1. EXST CONCRETE WALL/SLAB WITH SURFACE PREP

2. EXTEND SHOTCRETE TO COVER LINER. MINIMUM 3" THICKNESS

3. 1 1/2" MIN CLEAR, 2" MAX, TYP

4. WWF4x4 W4.0xW4.0

5. 4" THICK SHOTCRETE WALL FACING SEE DETAIL 2 & 3/ C-502 FOR ANCHOR. FOR JOINTING, SEE

6. #4 @ 1'6" O.C. WITH 6" ADHESIVE EMBEDMENT.

7. #4@12"

8. #4 HORIZONTAL TYP AT EACH ANCHOR ROW

9. PREPARE EXISTING CONCRETE FOR EXTENSION.

10. PROVIDE STEEL POULTRY FENCE FABRIC AS NEEDED FOR SHOTCRETE STABILIZATION.

11. ANCHORS PER DETAIL 3/C-502.

8"

6"±

TOP OF BANK

VARIES, SEE PROFILE

ANCHOR AT TOP WALL

ANCHOR AT MID HEIGHT

ANCHOR AT WALL BASE

ROCK RUBBLE AND BASALT

SLAB TOPPING

1

C-502

11

6

7

9

10

11

VERTICAL WALL FACING WITHOUT BACKSIDE SURFACE

1

NTS

KEYED DETAIL NOTES:

1. EXST CONCRETE WALL/SLAB WITH SURFACE PREP

2. SHOTCRETE WALL EXTENSION ANCHORED INTO EXISTING WALL AND ROCK FACE.

3. 1 1/2" MIN CLEAR, 2" MAX, TYP

4. WWF4x4 W4.0xW4.0

5. 4" THICK SHOTCRETE WALL FACING SEE DETAIL 2 & 3/ C-502 FOR ANCHOR. FOR JOINTING, SEE

6. #4 @ 1'6" O.C. WITH 6" ADHESIVE EMBEDMENT.

7. #4@12"

8. #4 HORIZONTAL TYP AT EACH ANCHOR ROW

9. PREPARE EXISTING CONCRETE FOR EXTENSION.

10. PROVIDE STEEL POULTRY FENCE FABRIC AS NEEDED FOR SHOTCRETE STABILIZATION.

11. #4 GALVANIZED ROCK DOWELS SPACED AT 8'-0" WITH AN EMBEDMENT OF 5'-0" INTO ROCK. PROVIDE 3/4" HOLE AND SET ANCHORS WITH POLYESTER RESIN. EACH WALL EXTENSION SEGMENT SHALL HAVE A MINIMUM OF (2) ROCK ANCHORS TYP.

12. ANCHORS PER DETAIL 3/C-502.

30" MAX

6" MIN

TOP OF BANK

VARIES, SEE PROFILE

ANCHOR AT TOP WALL

ANCHOR AT MID HEIGHT

ANCHOR AT WALL BASE

ROCK

SLAB TOPPING

1

C-502

11

6

7

9

10

12

WALL FACING WITH EXTENSION ANCHORED DIRECTLY INTO ROCK

2

NTS

KEYED DETAIL NOTES:

1. EXST CONCRETE WALL/SLAB WITH SURFACE PREP

2. SHOTCRETE WALL EXTENSION ANCHORED INTO EXISTING WALL AND SHOTCRETE FILLER LAYER OVER ROCK.

3. 1 1/2" MIN CLEAR, 2" MAX, TYP

4. WWF4x4 W4.0xW4.0

5. 4" THICK SHOTCRETE WALL FACING SEE DETAIL 2 & 3/ C-502 FOR ANCHOR. FOR JOINTING, SEE

6. #4 @ 1'6" O.C. WITH 6" ADHESIVE EMBEDMENT.

7. #4@12"

8. 2 INCH SHOTCRETE LAYER DIRECTLY AGAINST ROCK FACE.

9. #4 HORIZONTAL TYP AT EACH ANCHOR ROW

10. PREPARE EXISTING CONCRETE FOR EXTENSION.

11. PROVIDE STEEL POULTRY FENCE FABRIC AS NEEDED FOR SHOTCRETE STABILIZATION.

12. #4 GALVANIZED ROCK DOWELS SPACED AT 8'-0" WITH AN EMBEDMENT OF 5'-0" INTO ROCK. PROVIDE 3/4" HOLE AND SET ANCHORS WITH POLYESTER RESIN. EACH WALL EXTENSION SEGMENT SHALL HAVE A MINIMUM OF (2) ROCK ANCHORS TYP.

13. ANCHORS PER DETAIL 3/C-502.

30" MAX

6" MIN

TOP OF BANK

VARIES, SEE PROFILE

ANCHOR AT TOP WALL

ANCHOR AT MID HEIGHT

ANCHOR AT WALL BASE

ROCK

SLAB TOPPING

1

C-502

11

6

7

9

10

13

WALL FACING WITH EXTENSION ANCHORED TO SHOTCRETE FILLER OVER ROCK

3

NTS

JACOBS

CIVIL

LINER DETAILS SHEET 1

JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CANAL IMPROVEMENTS PROJECT
STA 42+75 THRU STA 78+00
NORTH SIDE CANAL COMPANY
JEROME, IDAHO

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

DATE MAY 2025

PROJ D3737000

DWG C-501

SHEET 26 of 30

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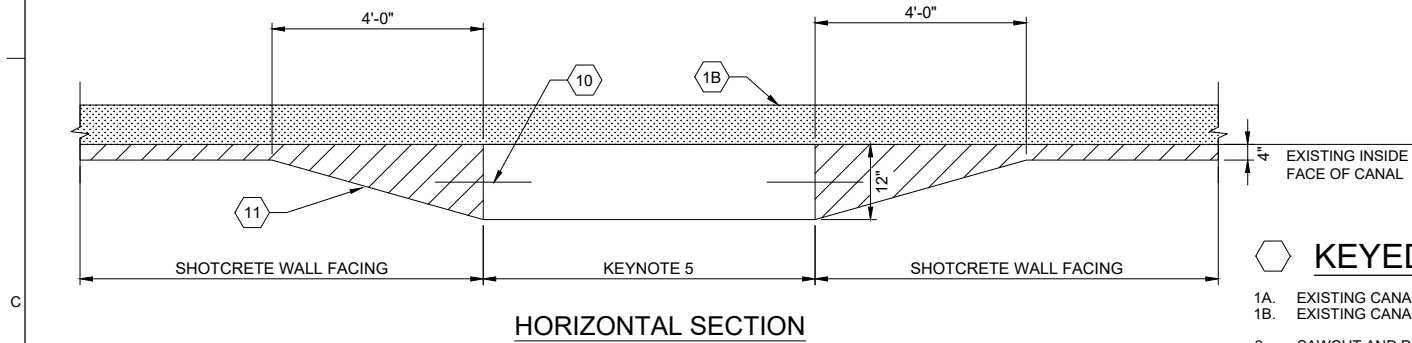
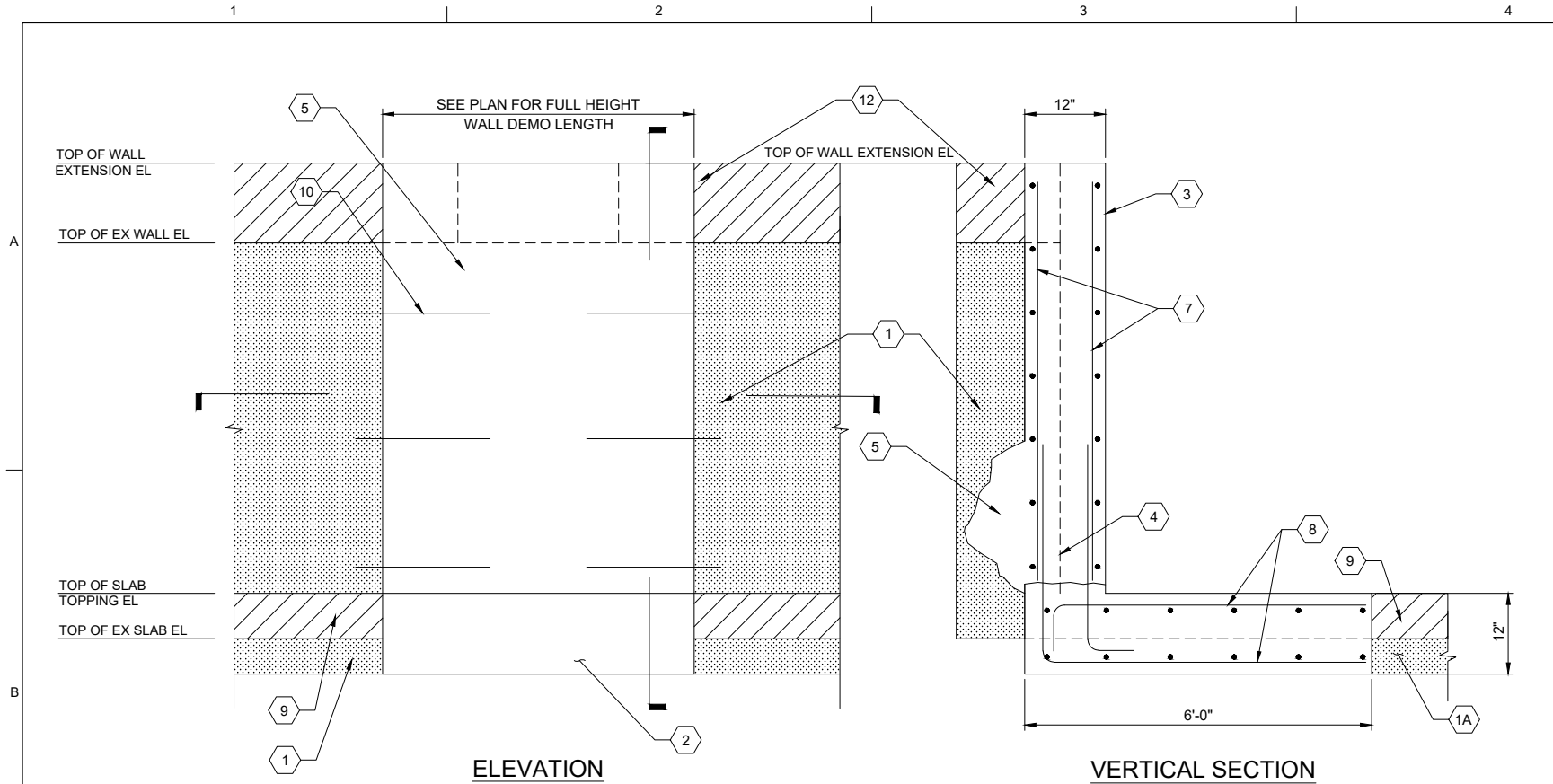
DR B BUTTERFIELD
C WEBSTER
NO. DATE DSGN

REVISION
CHK

APVD
BY

APVD
D STOKER

FILENAME: 005-C-501_D3737000.dwg



NOTE:

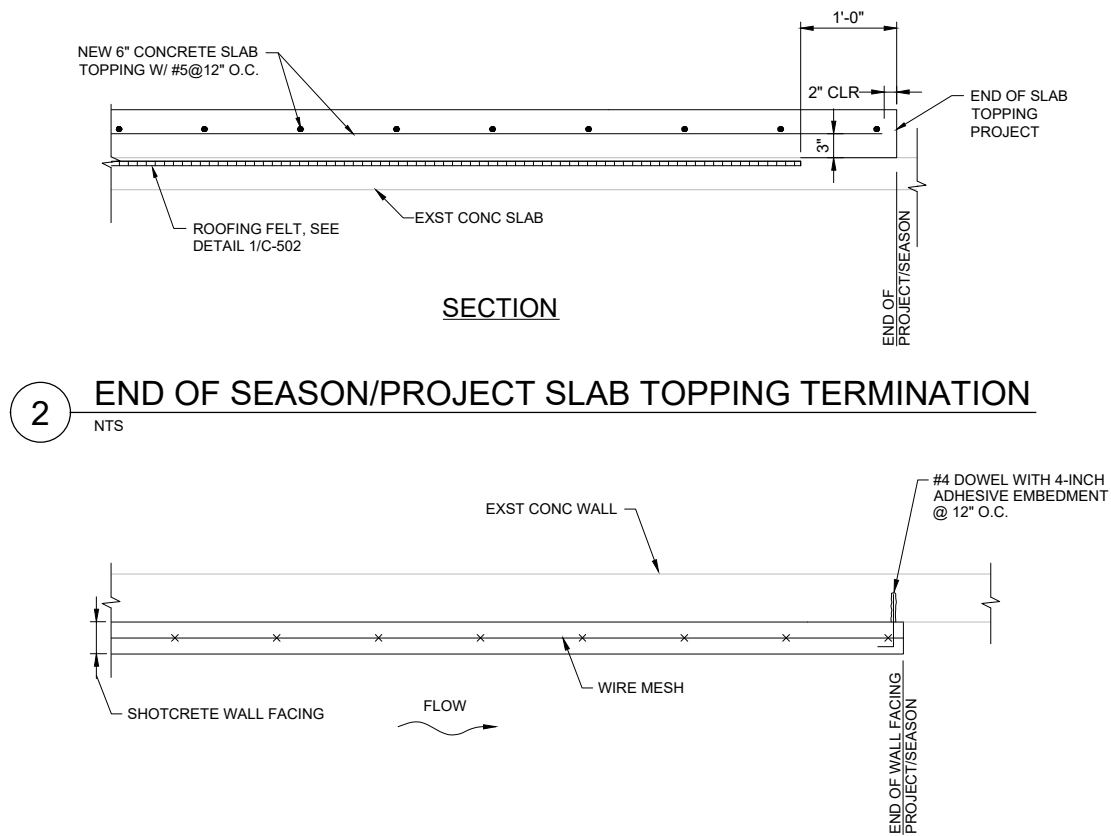
WALL SEGMENTS WITH SURFACE DEGRADATION DEEPER THAN 3", EXCESSIVE CRACKING AND LOOSE MATERIAL, OR SECTION LOSS SHALL RECEIVE WALL REPLACEMENT. SEE DRAWING C-504 FOR EXAMPLES OF WALL CONDITIONS NEEDING REPLACEMENT.

1 WALL REPLACEMENT DETAIL

NTS

D-501
C-301
C-302
C-303
D-101
D-102
D-103
D-104
D-105

VERTICAL SECTION



2 END OF SEASON/PROJECT SLAB TOPPING TERMINATION

NTS

3 END OF SEASON/PROJECT WALL FACING TERMINATION

NTS

KEYED DETAIL NOTES:

- 1A. EXISTING CANAL SLAB.
- 1B. EXISTING CANAL WALL.
2. SAWCUT AND DEMOLISH EXISTING SLAB FOR NEW WALL FOOTING.
3. FORM INSIDE FACE OF WALL 12" FROM FACE OF EXISTING WALL
4. WALL FACING (BEYOND).
5. WHERE EXISTING CANAL WALL IS UNSOUND, POUR NEW CAST-IN-PLACE FULL HEIGHT WALL REPLACEMENT DIRECTLY AGAINST EXISTING WALL WITH CONCRETE TO FILL VOIDS IN EXISTING WALL AFTER REMOVING LOOSE MATERIAL.
6. NOT USED.
7. #5 @ 12" OC VERTICAL AND HORIZONTAL WALL BARS EA FACE, TYP. PROVIDE VERTICAL DOWELS INTO FOOTING WITH LAP SPLICE EA FACE.
8. #5 @ 12 OC EW T&B FOOTING BARS, TYP.
9. CONCRETE SLAB TOPPING.
10. PROVIDE #4 X 4'-0" DOWELS IN JOINT BETWEEN CAST-IN-PLACE CONCRETE AND SHOTCRETE (HALF OF LENGTH EACH SIDE OF JOINT).
11. TRANSITION SHOTCRETE WALL FACING THICKNESS FROM 4" TO 12" AS SHOWN. SHOTCRETE REINFORCEMENT NOT SHOWN FOR CLARITY. PROVIDE A 2ND LAYER OF WELDED FABRIC (WWF) IN TRANSITION 2" CLEAR FROM THE INSIDE FACE OF SHOTCRETE.
12. WALL EXTENSION.

JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CANAL IMPROVEMENTS PROJECT
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NORTH SIDE CANAL COMPANY
JEROME, IDAHO

JACOBS
CIVIL
LINER DETAILS SHEET 3

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE MAY 2025

PROJ D3737000

DWG C-503

SHEET 28 of 30

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P ROBINSON

CHK

REVISION

DR

C WEBSTER

NO.

DATE

DSGN

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BY

APVD

D STOKER

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1

2

3

4

5

6

A

B

C

D

PN 203
D-102

PHOTO 7
NTS

PN 206
D-103

PHOTO 8
NTS

PN 182/183
D-105

PHOTO 9
NTS

PN 30
D-103

PHOTO 10
NTS

PN 204
D-102

PHOTO 11
NTS

LEGEND

WALL SEGMENT NEEDING REPLACEMENT

SHEET KEYNOTES

1. EXISTING WALL SECTION LOSS AT BOTTOM OF WALL

2. EXCESSIVE CRACKING AT EXISTING WALL

3. EXCESSIVE SURFACE DEGRADATION AT EXISTING WALL

4. EXISTING WALL SECTION LOSS IN CENTER OF WALL

5. CRACKED OR LOOSE CONCRETE AT TOP OF EXISTING WALL

6. THESE PHOTOS ARE EXAMPLES OF TYPES OF DAMAGE REQUIRING WALL REPLACEMENT. SEE PLANS D-101 THROUGH D-105 FOR ALL WALL REPLACEMENT LOCATIONS

JACOBS ENGINEERING GROUP
999 MAIN ST., STE 1200
BOISE, ID 83702

CIVIL

WALL REPLACEMENT
EXAMPLE PHOTOGRAPHS

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NORTH SIDE CANAL COMPANY
JEROME, IDAHO

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VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0

1"

DATE

MAY 2025

PROJ

D3737000

DWG

C-504

SHEET

29 of 30

NO.

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D STOKER

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PLAN VIEW FOR ROCK STOCKPILE MAINTENANCE

$$1'' = 100'$$

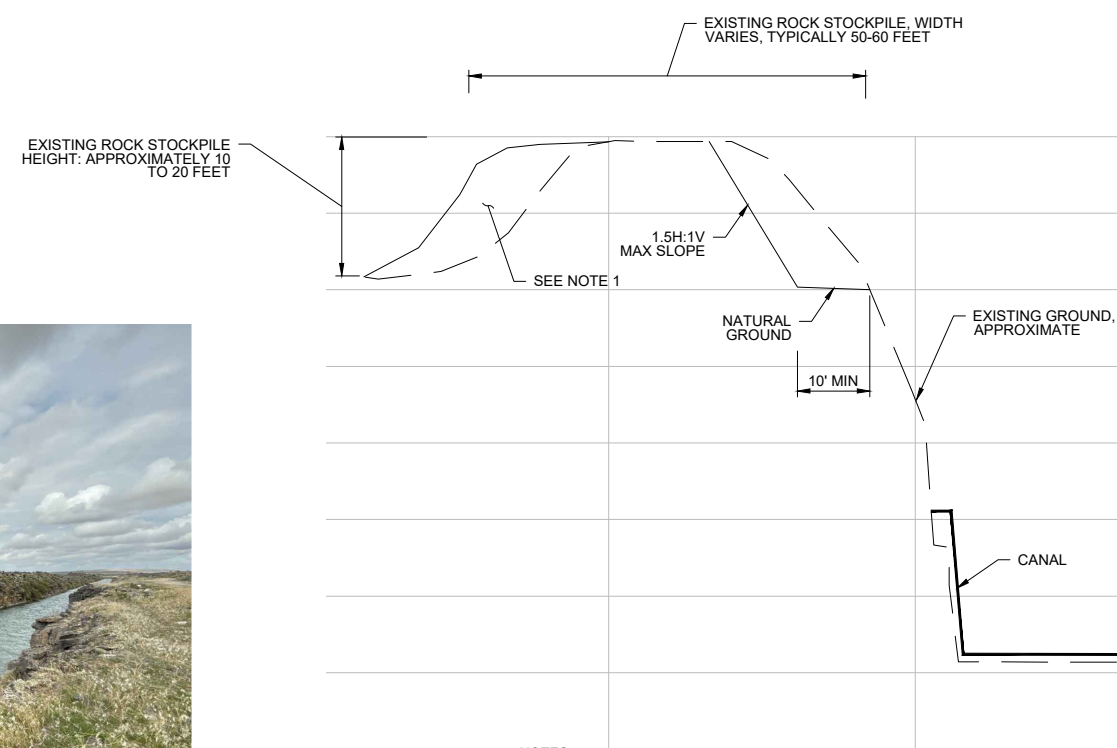

1 REPRESENTATIVE PHOTO OF EXISTING ROCK STOCKPILE ON SOUTH BANK. TAKEN AT APPROXIMATE STATION 70+00



2 REPRESENTATIVE PHOTO OF EXISTING ROCK STOCKPILE ON SOUTH BANK. TAKEN AT APPROXIMATE STATION 61+00



3 REPRESENTATIVE PHOTO OF EXISTING ROCK STOCKPILE ON SOUTH BANK. TAKEN AT APPROXIMATE STATION 45+00



NOTES:

1. RELOCATED PORTION OF ROCK STOCKPILE MAY BE ON BACKSIDE OF EXISTING STOCKPILE OR EXTENDED ALONG EASTERN/WESTERN ENDS OF EXISTING STOCKPILE.

1 SCHEMATIC ROCK STOCKPILE MAINTENANCE DETAIL

NTS

		JACOBS ENGINEERING GROUP 999 MAIN ST., STE 1200 BOISE, ID 83702							
		CANAL IMPROVEMENTS PROJECT STA 42+75 THRU STA 78+00 NORTH SIDE CANAL COMPANY JEROME, IDAHO							
CIVIL ROCK STOCKPILE MAINTENANCE DETAILS									
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0"  1"				NO.	DATE	REVISION		BY	APVD
DATE		MAY 2025		DSGN		DR	CHK		
PROJ		D3737000				C. WEBSTER	B. BUTTERFIELD	P. ROBINSON	
DWG		C-505							
SHEET		30 of 30							D. STOKER

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