

OGDEN BAY NORTH RUN WETLANDS



**OWNER: STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
515 EAST 5300 SOUTH
OGDEN, UTAH 84405**

SHEET SET ASSEMBLY ORDER

SHEET DESIGNATOR	BINDING ORDER	SHEET TITLE
COVER SHEET	1	CV 01
OVERALL CIVIL SITE PLAN	2	CP 01
PLAN VIEW	3	PV 01
PLAN VIEW	4	PV 02
DETAIL SHEET	5	DT 01



A REPRESENTATIVE LOCATION FOR PROJECT IS LOCATED AT
LATITUDE/LONGITUDE 41°13'12" NORTH X 112°10'07" WEST

**LOCAL MAP
NOT TO SCALE**



**CIVIL DESIGN ENGINEER:
EQUINOX ENGINEERING
POST OFFICE BOX 612
WEST JORDAN, UTAH 84084
(801) 739-8218**



**UTAH MAP
NOT TO SCALE**

**PROJECT
LOCATION**

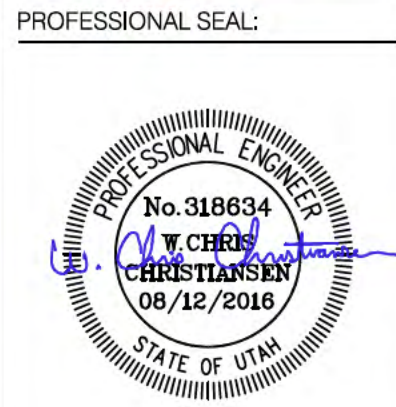


**VICINITY MAP
NOT TO SCALE**

**PROJECT
LOCATION**



**SITE MAP
NOT TO SCALE**



PROJECT IDENTIFICATION:
**OGDEN BAY
NORTH RUN
WETLANDS**

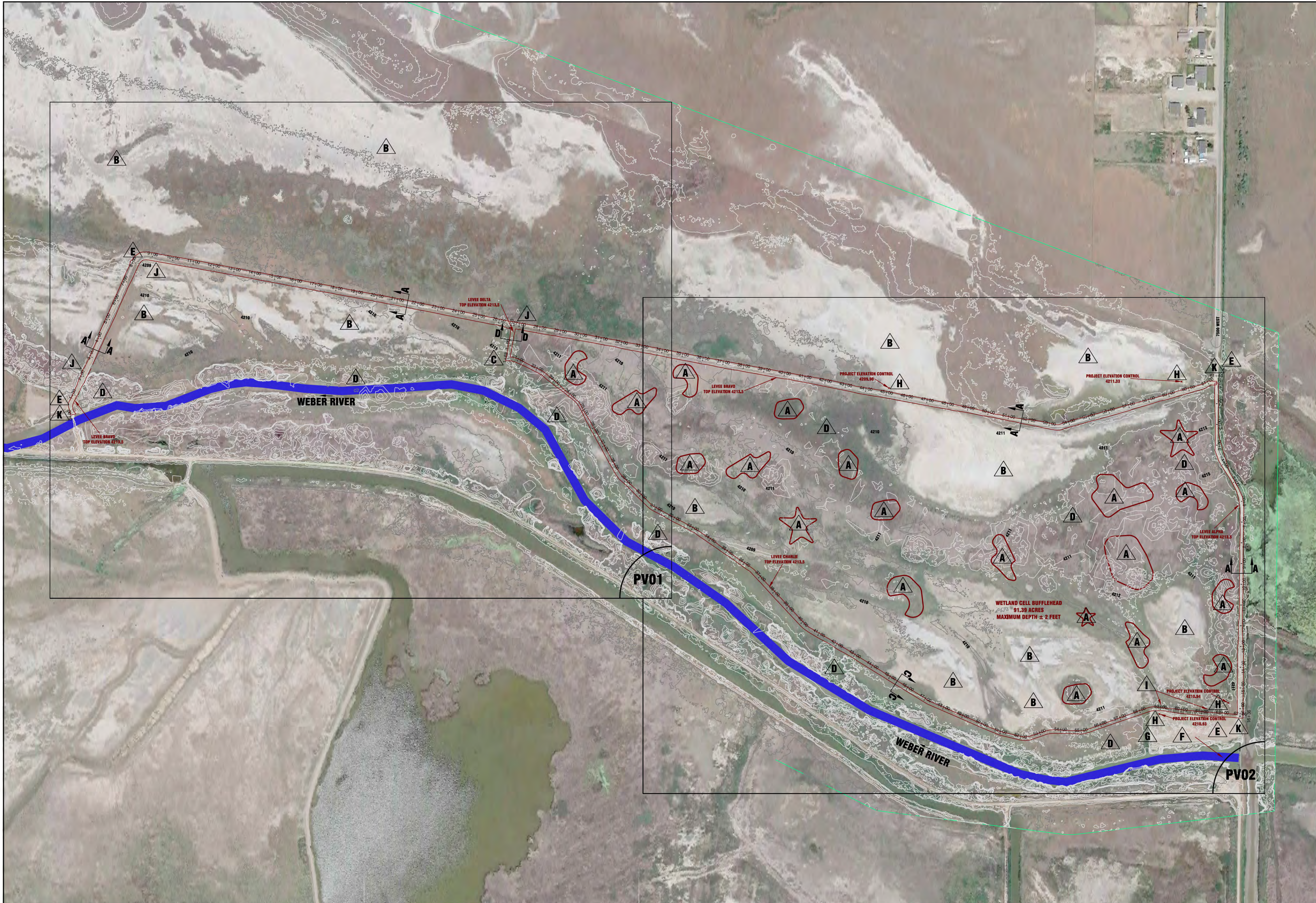
PROJECT OWNER:
**STATE OF UTAH
DEPARTMENT OF
NATURAL
RESOURCES
515 EAST
5300 SOUTH
OGDEN, UTAH
84405**

MARK	DATE	DESCRIPTION

PROJECT #: **UT-51-01**
SUBMITTAL #: **102**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/12/2016**

SHEET TITLE:
COVER SHEET

SHEET IDENTIFIER:
CV 01
BINDING
ORDER **01**



PROJECT IDENTIFICATION:
**OGDEN BAY
NORTH RUN
WETLANDS**

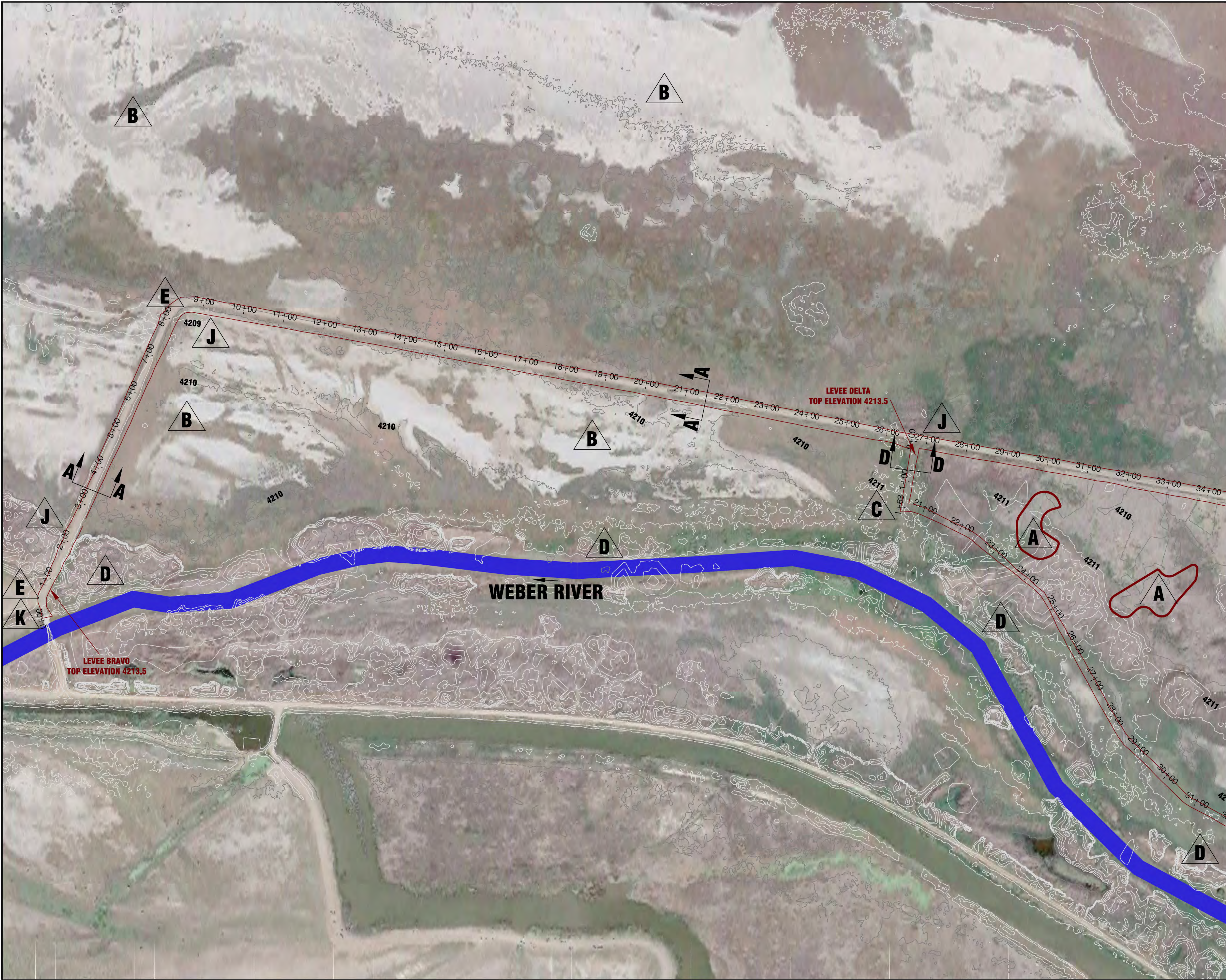
PROJECT OWNER:
**STATE OF UTAH
DEPARTMENT OF
NATURAL
RESOURCES
515 EAST
5300 SOUTH
OGDEN, UTAH
84405**

MARK	DATE	DESCRIPTION

PROJECT #: **UT-51-01**
SUBMITTAL #: **102**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/12/2016**

SHEET TITLE:
**OVERALL CIVIL
SITE PLAN**

SHEET IDENTIFIER:
CP 01
BINDING
ORDER **02**



LEGEND

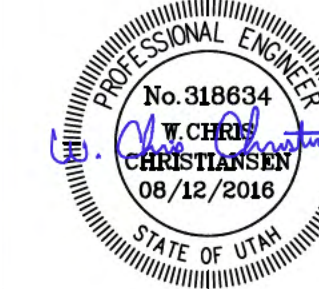
- 4205** EXISTING MAJOR CONTOUR
- 4211** EXISTING MINOR CONTOUR
- WEBER RIVER**
- PROPOSED LEVEE BOUNDARIES**
- A** LOAFING ISLAND/MOSAIC RELIEF. CONTRACTOR TO PROVIDE RANDOM SHAPED LOAFING ISLANDS/MOSAIC RELIEF PER DETAILS E/1 & E/2 SHEET DT01. SHAPES SHOWN ARE A GENERAL GUIDE - CONTRACTOR TO USE ARTISTIC LIBERTY TO CREATE RANDOM SHAPES AT RANDOM INTERVALS.
- B** SALTWATER PLAYA - NO BORROW AREA
- C** LEVEE CHARLIE BEGINS AT STATION 20+50. LEVEE SECTION FROM 0+00 TO 20+50 DELETED FROM THIS PROJECT AND TO BE CONSTRUCTED BY OTHERS AFTER THE COMPLETION OF THIS PROJECT
- D** INITIAL BORROW AREA. EXISTING DREDGED AND BERM MATERIAL ALONG NORTH SIDE OF WEBER RIVER SHALL BE USED AS FILL MATERIAL IF SUITABLE. ANY PORTION OF THE EXISTING DREDGED AND BERM MATERIAL THAT IS NOT SUITABLE FOR FILL MATERIAL SHALL BE ENTIRELY USED FOR CREATION OF LOAFING ISLANDS/MOSAIC RELIEF. THE INTENT IS TO REMOVE ALL BERM MATERIAL AWAY FROM THE RIVERS EDGE.
- E** GRAVEL STOCKPILE AREA
- F** EXISTING PARKING LOT TO REMAIN. PRESERVE AND PROTECT.
- G** EXISTING CHANNEL TO REMAIN AND BE USED AS AN INLET/OUTLET FOR FUTURE WATER CONTROL STRUCTURE WHICH WILL BE INSTALLED BY OTHERS.
- H** PROJECT ELEVATION CONTROL HUB
- I** BORROW AREA NORTH OF PARKING LOT SHALL BE FILLED WITH BORROW MATERIAL - FILLED MATERIAL DOES NOT NEED TO BE COMPACTED. FINISH GRADE SHALL BE $\pm 4"$ OF EXISTING NATURAL UNDISTURBED GROUND ELEVATION
- J** EXISTING CULVERTS SHALL BE REMOVED. CARE SHALL BE TAKEN TO NOT DESTROY PIPE DURING REMOVAL. PIPE SHALL BE PLACED ADJACENT TO THE WORK SITE FAR ENOUGH AWAY TO NOT INTERFERE WITH THE CONTRACT WORK. PIPE SHALL BE REMOVED BY OTHERS AFTER COMPLETION OF WORK ASSOCIATED WITH THIS CONTRACT.
- K** CONTRACTOR TO PROVIDE EARTHEN ROADWAY RAMP THAT WILL TRANSITION FROM LEVEE TOP TO NATURAL GROUND AT A SLOPE OF 10V:1H OR LESS STEEP - THE INTENT IS TO ALLOW FOR SAFE VEHICLE PASSAGE. THE RAMP SHALL BE A MINIMUM OF 14 FEET WIDE WITH A MINIMUM TRANSITION RADIUS OF 16 FEET FROM THE RAMP TO THE LEVEE TOP

PREPARER:

EQUINOX
ENGINEERING



PROFESSIONAL SEAL:



PROJECT IDENTIFICATION:

**OGDEN BAY
NORTH RUN
WETLANDS**

PROJECT OWNER:

**STATE OF UTAH
DEPARTMENT OF
NATURAL
RESOURCES
515 EAST
5300 SOUTH
OGDEN, UTAH
84405**

MARK	DATE	DESCRIPTION

PROJECT #: **UT-51-01**
SUBMITTAL #: **102**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/12/2016**

SHEET TITLE:

PLAN VIEW

SHEET IDENTIFIER:

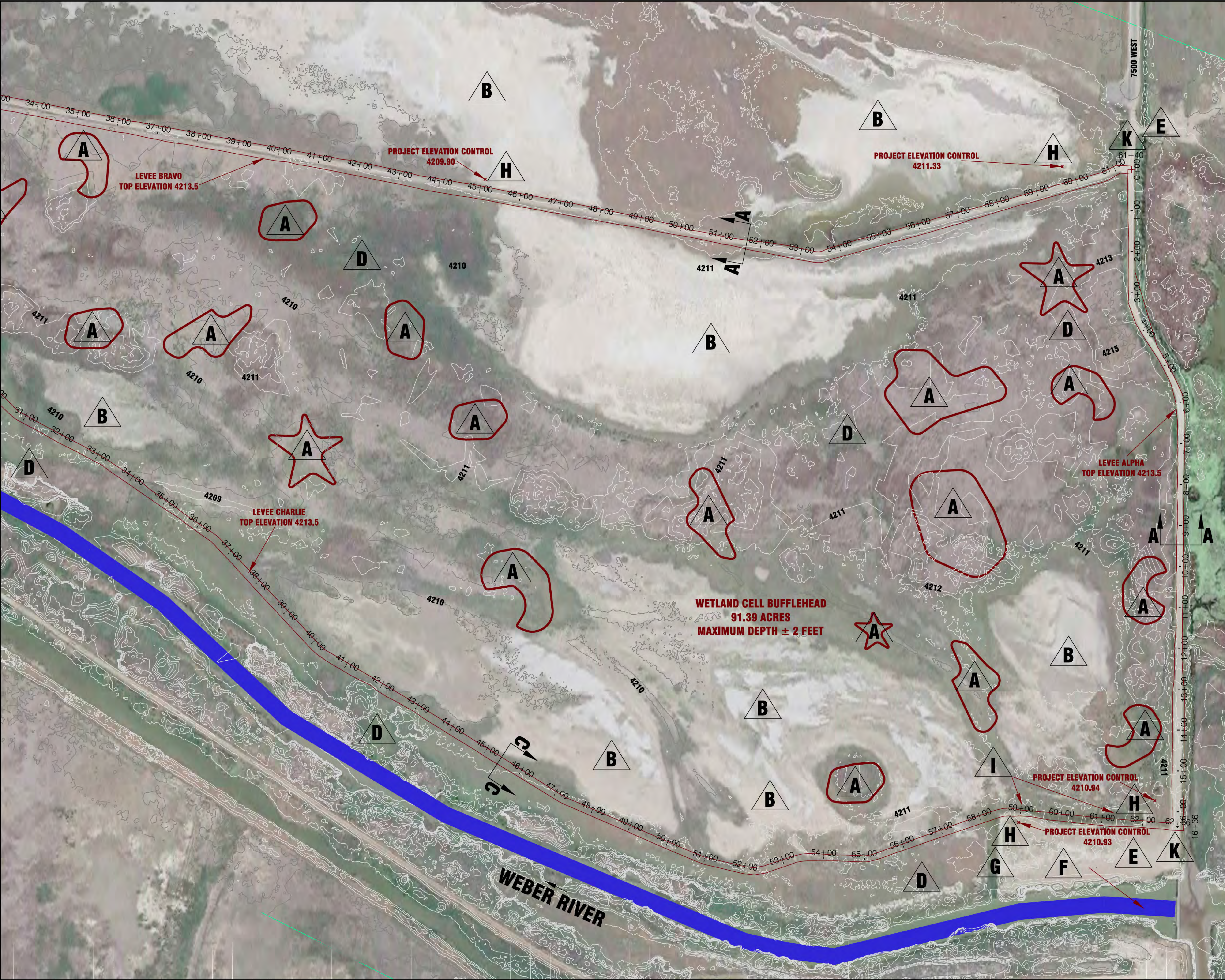
PV 01

BINDING
ORDER **03**



0 50' 100' 200'
Scale: 1" = 110'

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



LEGEND

- 4205 EXISTING MAJOR CONTOUR
- 4211 EXISTING MINOR CONTOUR
- WEBER RIVER
- PROPOSED LEVEE BOUNDARIES
- A LOADING ISLAND/MOSAIC RELIEF. CONTRACTOR TO PROVIDE RANDOM SHAPED LOADING ISLANDS/MOSAIC RELIEF PER DETAILS E/1 & E/2 SHEET DT01. SHAPES SHOWN ARE A GENERAL GUIDE - CONTRACTOR TO USE ARTISTIC LIBERTY TO CREATE RANDOM SHAPES AT RANDOM INTERVALS.
- B SALTWATER PLAYA - NO BORROW AREA
- C LEVEE CHARLIE BEGINS AT STATION 20+50. LEVEE SECTION FROM 0+00 TO 20+50 DELETED FROM THIS PROJECT AND TO BE CONSTRUCTED BY OTHERS AFTER THE COMPLETION OF THIS PROJECT
- D INITIAL BORROW AREA. EXISTING DREDGED AND BERM MATERIAL ALONG NORTH SIDE OF WEBER RIVER SHALL BE USED AS FILL MATERIAL IF SUITABLE. ANY PORTION OF THE EXISTING DREDGED AND BERM MATERIAL THAT IS NOT SUITABLE FOR FILL MATERIAL SHALL BE ENTIRELY USED FOR CREATION OF LOADING ISLANDS/MOSAIC RELIEF. THE INTENT IS TO REMOVE ALL BERM MATERIAL AWAY FROM THE RIVERS EDGE.
- E GRAVEL STOCKPILE AREA
- F EXISTING PARKING LOT TO REMAIN. PRESERVE AND PROTECT.
- G EXISTING CHANNEL TO REMAIN AND BE USED AS AN INLET/OUTLET FOR FUTURE WATER CONTROL STRUCTURE WHICH WILL BE INSTALLED BY OTHERS.
- H PROJECT ELEVATION CONTROL HUB
- I BORROW DEPRESSION NORTH OF PARKING LOT SHALL BE FILLED WITH BORROW MATERIAL - FILLED MATERIAL DOES NOT NEED TO BE COMPACTED. FINISH GRADE SHALL BE $\pm 4"$ OF EXISTING NATURAL UNDISTURBED GROUND ELEVATION
- J EXISTING CULVERTS SHALL BE REMOVED. CARE SHALL BE TAKEN TO NOT DESTROY PIPE DURING REMOVAL. PIPE SHALL BE PLACED ADJACENT TO THE WORK SITE FAR ENOUGH AWAY TO NOT INTERFERE WITH THE CONTRACT WORK. PIPE SHALL BE REMOVED BY OTHERS AFTER COMPLETION OF WORK ASSOCIATED WITH THIS CONTRACT.
- K CONTRACTOR TO PROVIDE EARTHEN ROADWAY RAMP THAT WILL TRANSITION FROM LEVEE TOP TO NATURAL GROUND AT A SLOPE OF 10V:1H OR LESS STEEP - THE INTENT IS TO ALLOW FOR SAFE VEHICLE PASSAGE. THE RAMP SHALL BE A MINIMUM OF 14 FEET WIDE WITH A MINIMUM TRANSITION RADIUS OF 16 FEET FROM THE RAMP TO THE LEVEE TOP

PREPARED BY:
EQUINOX ENGINEERING

PROFESSIONAL SEAL:
No. 318634
V. CHESN
08/12/2016
STATE OF UTAH

PROJECT IDENTIFICATION:
OGDEN BAY NORTH RUN WETLANDS

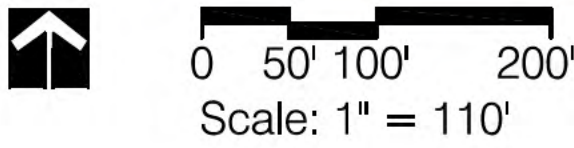
PROJECT OWNER:
**STATE OF UTAH
DEPARTMENT OF
NATURAL
RESOURCES
515 EAST
5300 SOUTH
OGDEN, UTAH
84405**

MARK	DATE	DESCRIPTION

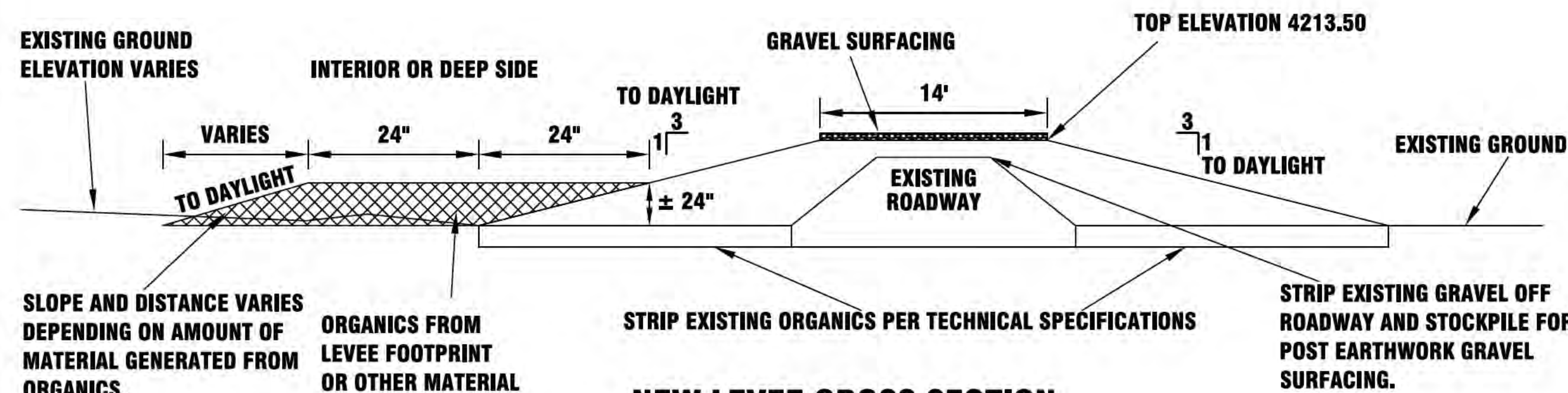
PROJECT #: **UT-51-01**
SUBMITTAL #: **102**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/12/2016**

SHEET TITLE:
PLAN VIEW

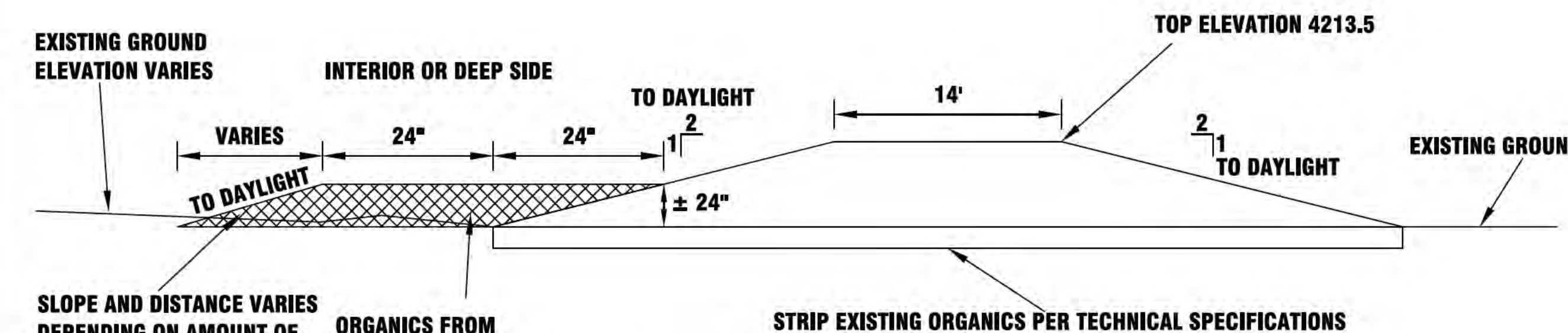
SHEET IDENTIFIER:
PV 02
BINDING ORDER **04**



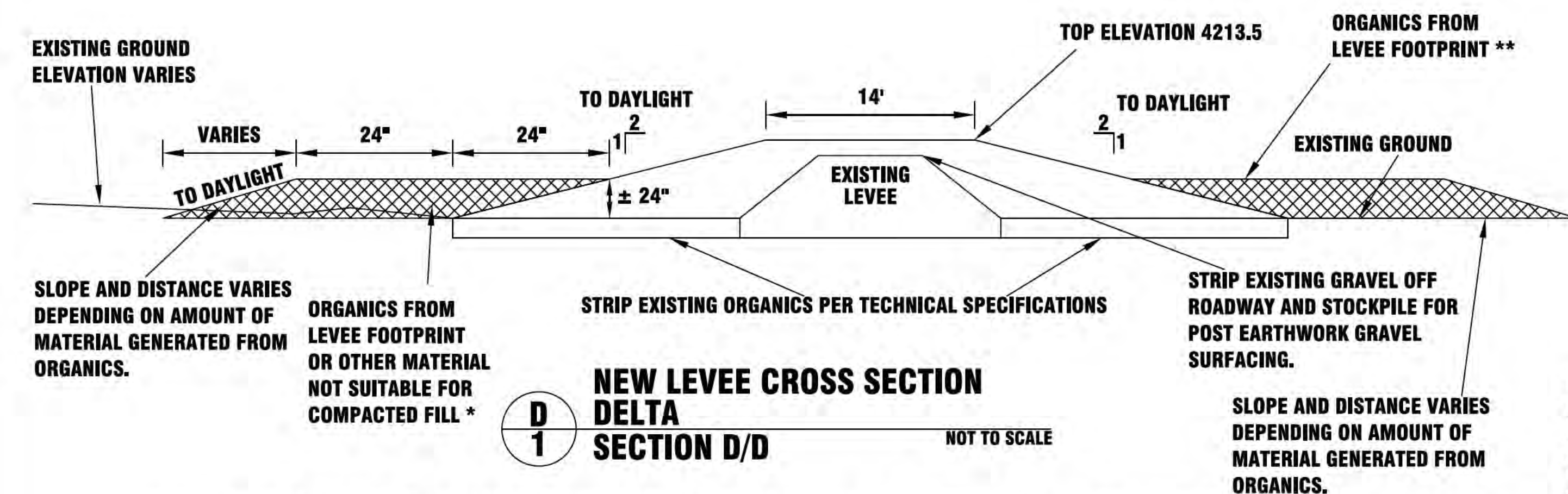
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



**NEW LEVEE CROSS SECTION
ALPHA/BRAVO
SECTION A/A**
NOT TO SCALE

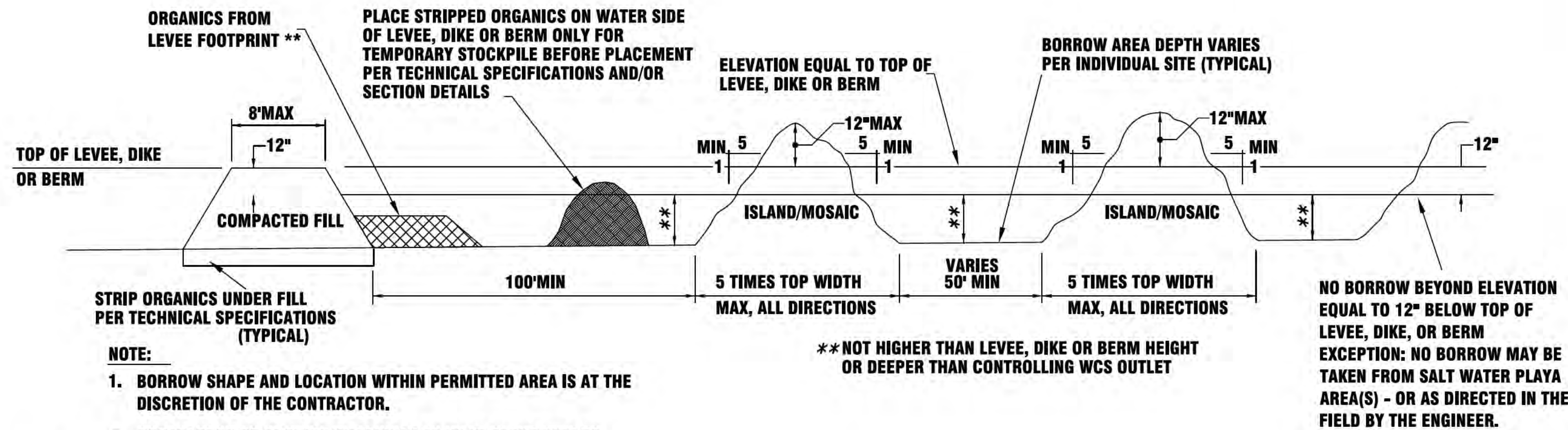


**NEW LEVEE CROSS SECTION
CHARLIE
SECTION C/C**
NOT TO SCALE

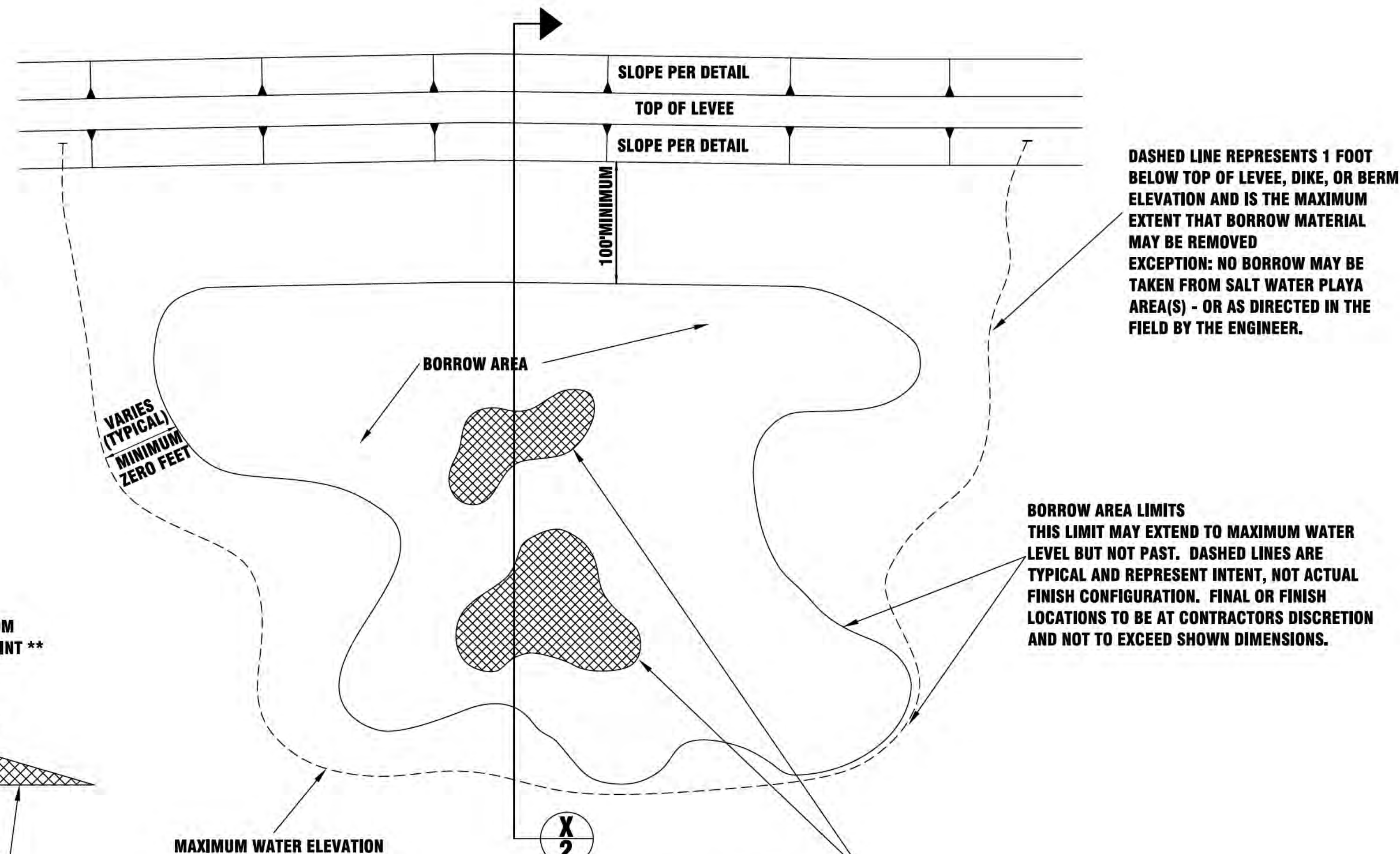


**NEW LEVEE CROSS SECTION
DELTA
SECTION D/D**
NOT TO SCALE

* ORGANICS SHALL BE STOCKPILED AWAY FROM THE TOE OF THE LEVEE FAR ENOUGH TO KEEP THEM FROM BEING INCORPORATED INTO THE COMPACTED FILL. AFTER SHAPING ORGANICS MATERIAL SHALL BE PLACED AGAINST THE TOE OF THE NEWLY CONSTRUCTED LEVEE TO ASSIST WITH WAVE AND WIND EROSION. MATERIAL SHALL BE PLACED WITH A 2' OVERLAP TO A DEPTH OF $\pm 24"$ AND SLOPED AT A 5V:1H AWAY FROM THE LEVEE TO A VARIABLE DISTANCE THAT WILL BE DETERMINED IN THE FIELD BASED ON THE AMOUNT OF ORGANICS AVAILABLE.



**TYPICAL BORROW SECTION
ELEVATION VIEW**
NOT TO SCALE



**TYPICAL BORROW SECTION
PLAN VIEW**
NOT TO SCALE

NOTE: CONFIGURATION IS FOR CONCEPTUAL REPRESENTATION ONLY. ACTUAL ALIGNMENT OR SHAPE WILL VARY BASED ON EXISTING CONDITION PER INDIVIDUAL SITE. CONTRACTOR TO USE SHAPES SHOWN IN PLAN VIEW AS A GUIDE-THE FINISHED CONFIGURATION SHOULD BE SIMILAR TO THE SHAPES AND LOCATION SHOWN.

LOADING ISLANDS/MOSAIC RELIEF ISLANDS MAY BE CONSTRUCTED OF MATERIAL NOT SUITABLE FOR COMPACTED FILL. ISLANDS SHALL NOT BE COMPACTED AND HEIGHT SHALL NOT EXCEED 12" ABOVE THE TOP OF LEVEE, DIKE, OR BERM.

DASHED LINE REPRESENTS 1 FOOT BELOW TOP OF LEVEE, DIKE, OR BERM ELEVATION AND IS THE MAXIMUM EXTENT THAT BORROW MATERIAL MAY BE REMOVED. EXCEPTION: NO BORROW MAY BE TAKEN FROM SALT WATER PLAYA AREA(S) - OR AS DIRECTED IN THE FIELD BY THE ENGINEER.

BORROW AREA LIMITS THIS LIMIT MAY EXTEND TO MAXIMUM WATER LEVEL BUT NOT PAST. DASHED LINES ARE TYPICAL AND REPRESENT INTENT, NOT ACTUAL FINISH CONFIGURATION. FINAL OR FINISH LOCATIONS TO BE AT CONTRACTORS DISCRETION AND NOT TO EXCEED SHOWN DIMENSIONS.