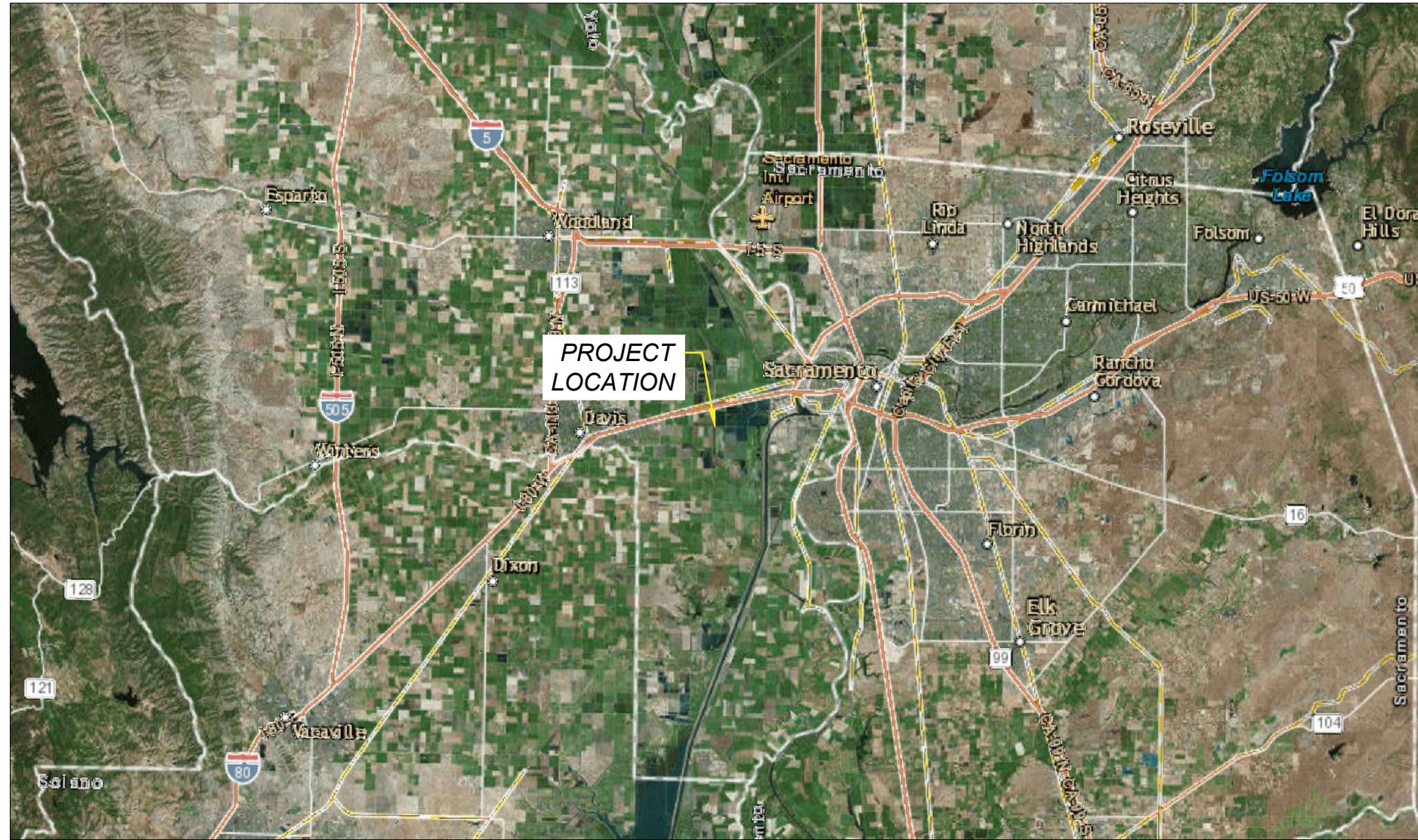


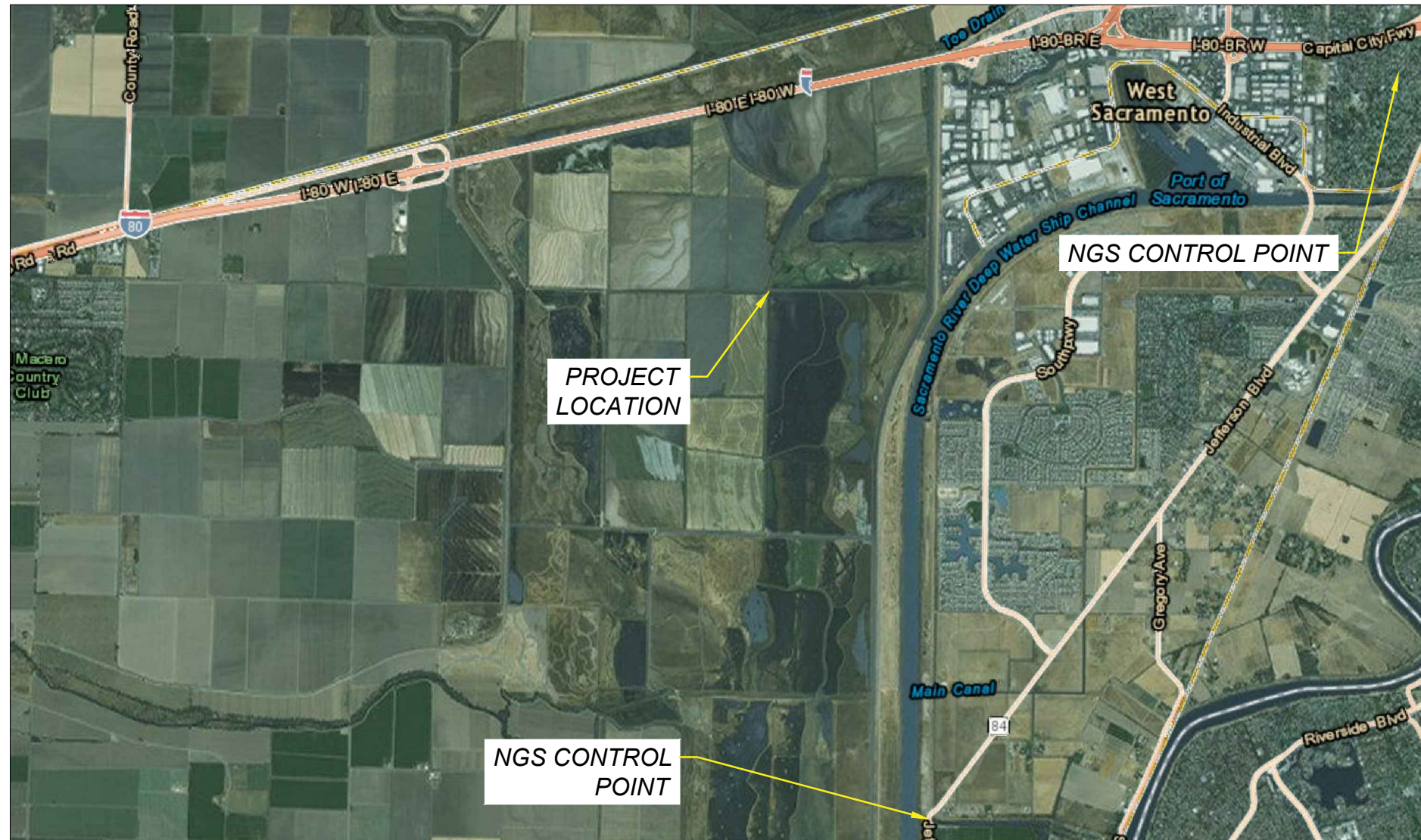
YOLO BYPASS WILDLIFE AREA HABITAT AND DRAINAGE
IMPROVEMENTS PROJECT

METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA

PREPARED BY:
CBEC ECO ENGINEERING



PROJECT LOCATION MAP




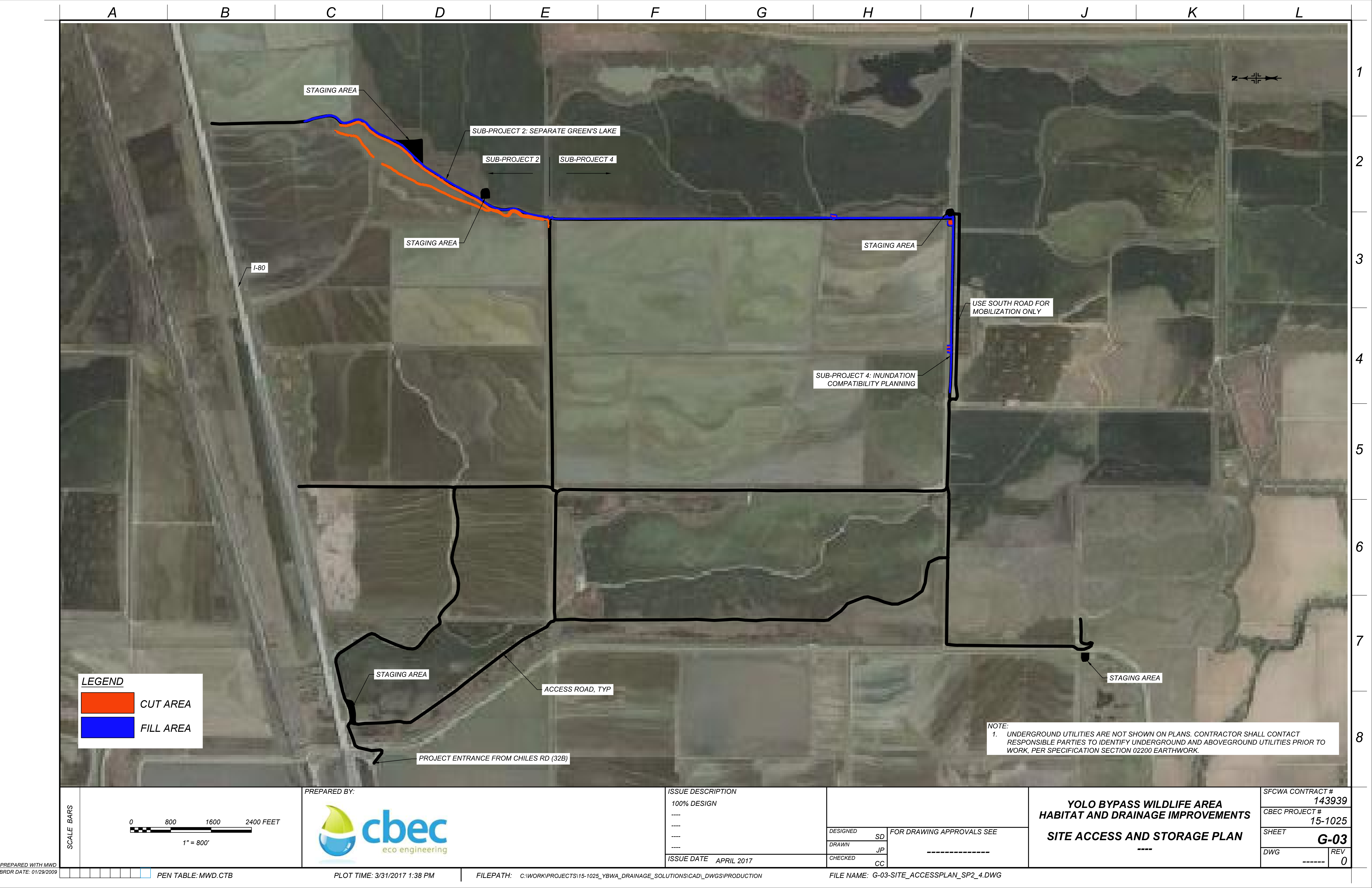
SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
G-01	COVER
G-02	SHEET LAYOUT PLAN
G-03	SITE ACCESS AND STORAGE PLAN
01	SUB-PROJECT 4 - EAST WEST ROAD STATION 0 TO 12+00
02	SUB-PROJECT 4 - EAST WEST ROAD STATION 12+00 TO 24+00
03	SUB-PROJECT 4 - EAST WEST ROAD STATION 24+00 TO 36+00
04	SUB-PROJECT 4 - NORTH SOUTH ROAD STATION 36+00 TO 47+25
05	SUB-PROJECT 4 - NORTH SOUTH ROAD STATION 47+25 TO 59+00
06	SUB-PROJECT 4 - NORTH SOUTH ROAD STATION 59+00 TO 71+00
07	SUB-PROJECT 4 - NORTH SOUTH ROAD STATION 71+00 TO 82+50
08	SUB-PROJECT 4 - NORTH SOUTH ROAD STATION 82+50 TO 94+00
09	SUB-PROJECT 4 - NORTH SOUTH ROAD STATION 94+00 TO 106+00
10	SUB-PROJECT 4 - NORTH SOUTH ROAD STATION 106+00 TO 118+00
11	SUB-PROJECT 2 - GREEN'S LAKE STATION 118+25 TO 130+50
12	SUB-PROJECT 2 - GREEN'S LAKE STATION 130+50 TO 142+25
13	SUB-PROJECT 2 - GREEN'S LAKE STATION 142+25 TO 153+50
14	SUB-PROJECT 2 - GREEN'S LAKE STATION 153+50 TO 166+50
15	SUB-PROJECT 2 - GREEN'S LAKE POND IMPROVEMENTS 1
16	SUB-PROJECT 2 - GREEN'S LAKE POND IMPROVEMENTS 2
17	SUB-PROJECT 2 - GREEN'S LAKE STATION 166+50 TO END
18	SUB-PROJECT 2 - GREEN'S LAKE DITCH IMPROVEMENTS
19	SUB-PROJECT_4_2 ALIGNMENT GEOMETRY TABLE
20	SUB-PROJECT 4 - PUMP STATION PLAN
21	SUB-PROJECT 2 - GREEN'S LAKE DETAIL PLAN
22	SUB-PROJECT 4 - NORTH SOUTH ROAD GRADING AND CULVERT SECTIONS
23	SUB-PROJECT 2 - GREEN'S LAKE GRADING AND CULVERT SECTIONS
24	TYPICAL DETAILS 1
25	TYPICAL DETAILS 2
E2.1	OVERALL ELECTRICAL PLAN
E2.2	OVERHEAD POLE LINE CONSTRUCTION
E2.3	OVERHEAD POLE LINE CONSTRUCTION - ELECTRICAL SITE PLAN
E2.4	NEW PUMP STATION DETAILS

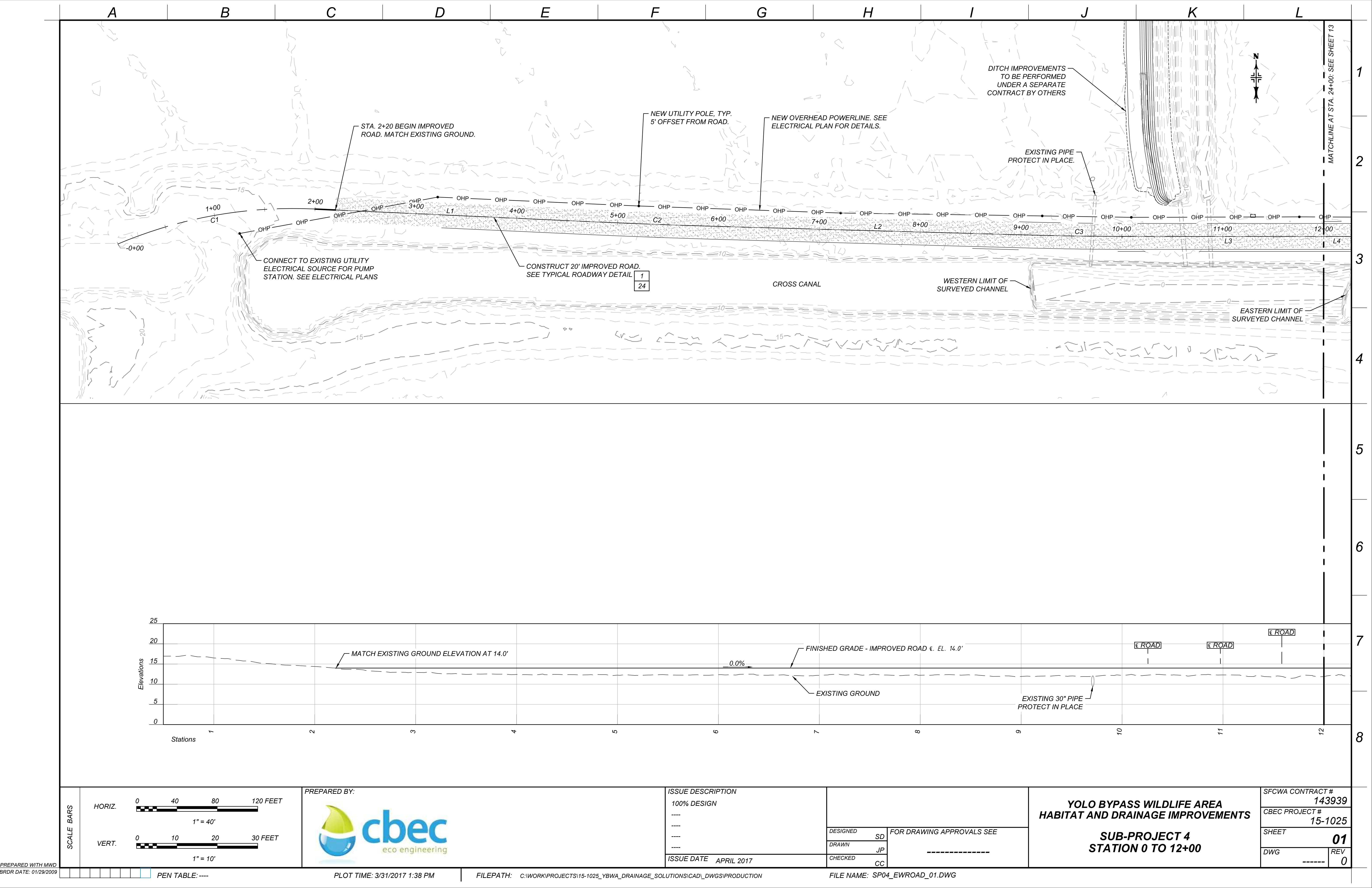
EARTHWORK SUMMARY TABLE			
SUB-PROJECT NO.	CUT (BCY)	FILL (CCY)	NET (BCY)
4	1724	14988	18260 <FILL>
2	38186	15227	17883 <CUT>
	39910	30215	377 <CUT>

- NOTES:
- EARTHWORK VALUES ACCOUNT FOR A 25% SHRINKAGE FACTOR (I.E., BCY *0.75 = CCY).
 - FILL VALUES DO NOT INCLUDE THE VOLUME OF CRUSHED AGGREGATE BASE FOR ROAD PAVING, ESTIMATED AT 9,270 CY
 - EARTHWORK VALUES SHOWN ARE APPROXIMATE. BASED ON MATERIAL QUALITY AND SHRINKAGE CHARACTERISTICS ENCOUNTERED, CONTRACTOR MAY NEED TO ADJUST EXCAVATION TO BALANCE CUT AND FILL. ANY ADJUSTMENTS TO GRADING MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO BEING IMPLEMENTED.



SCALE BARS	<div>080016002400 FEET</div> <div>1" = 800'</div>	<div>PREPARED BY:</div> <div><div>cbec</div><div>eco engineering</div></div>	<div>ISSUE DESCRIPTION</div> <div>100% DESIGN</div> <div>----</div> <div>----</div> <div>----</div> <div>ISSUE DATE APRIL 2017</div>	<div>FOR DRAWING APPROVALS SEE</div> <div>-----</div>		<div>YOLO BYPASS WILDLIFE AREA</div> <div>HABITAT AND DRAINAGE IMPROVEMENTS</div> <div>SHEET LAYOUT PLAN</div> <div>----</div>	SFCWA CONTRACT #		143939	
							CBEC PROJECT #		15-1025	
							SHEET		G-02	
							DWG	-----	REV	0
							PREPARED WITH MWD BRDR DATE: 01/29/2009			
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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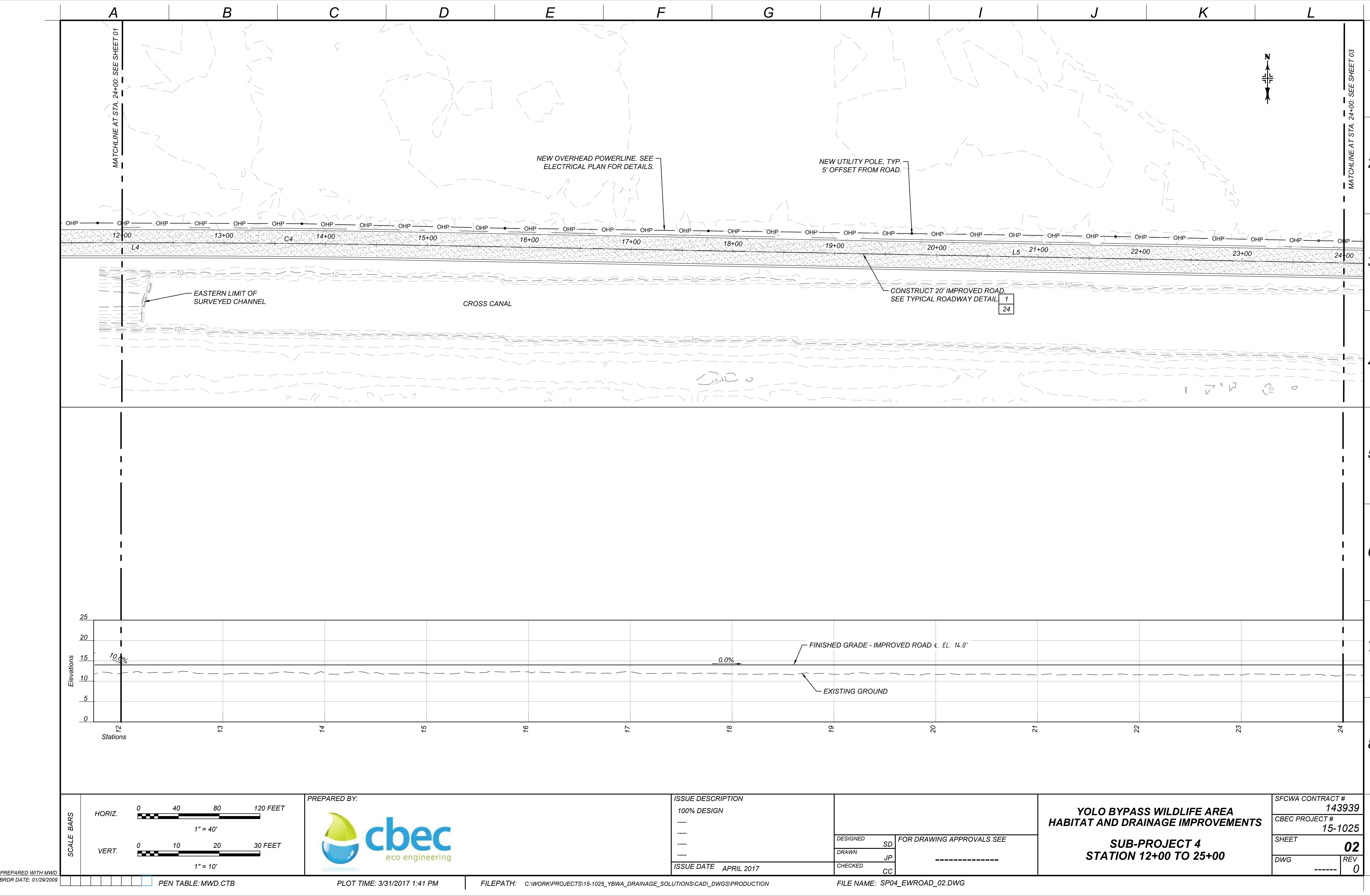
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BRDR DATE: 01/29/2009

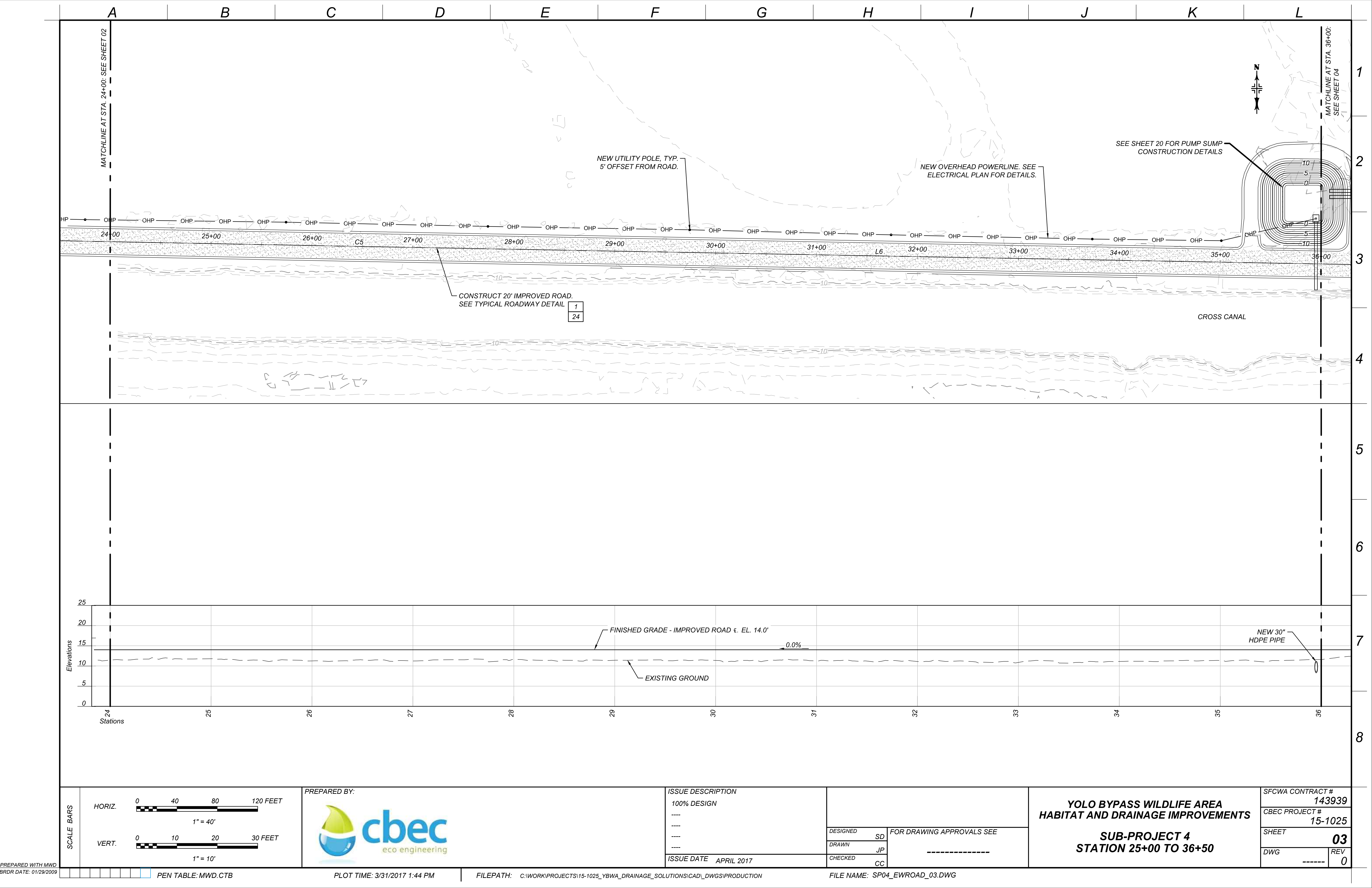
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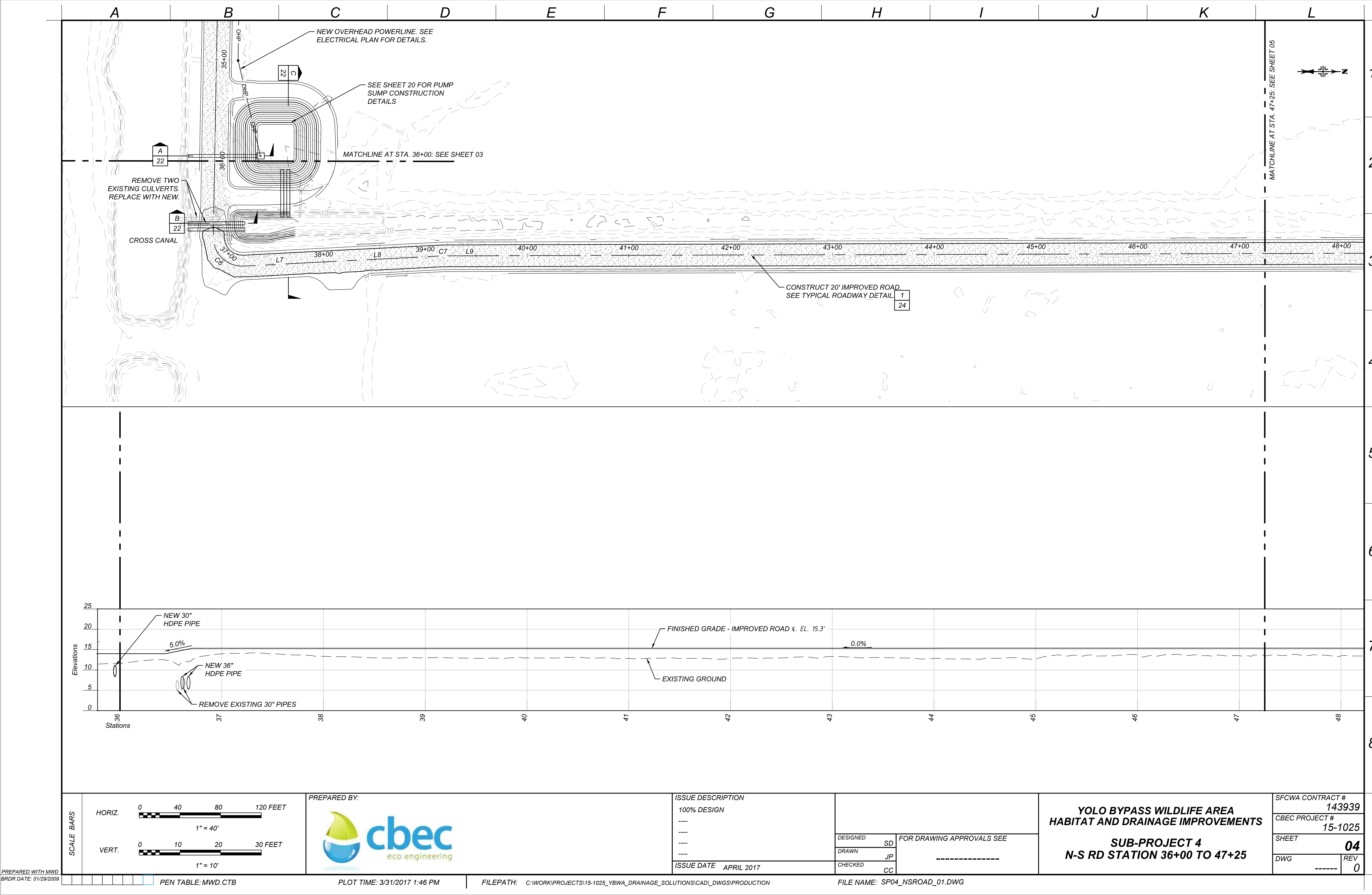
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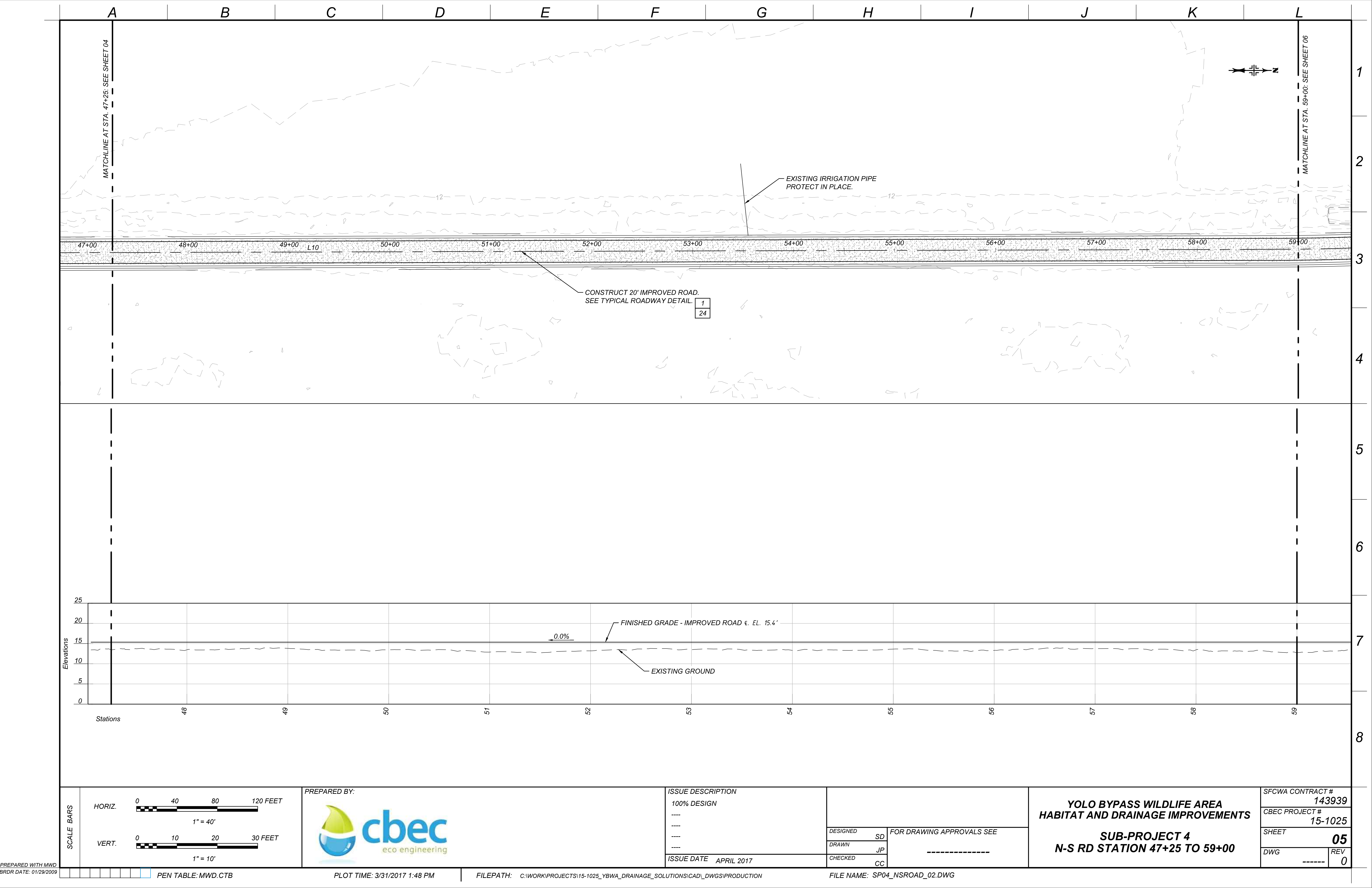
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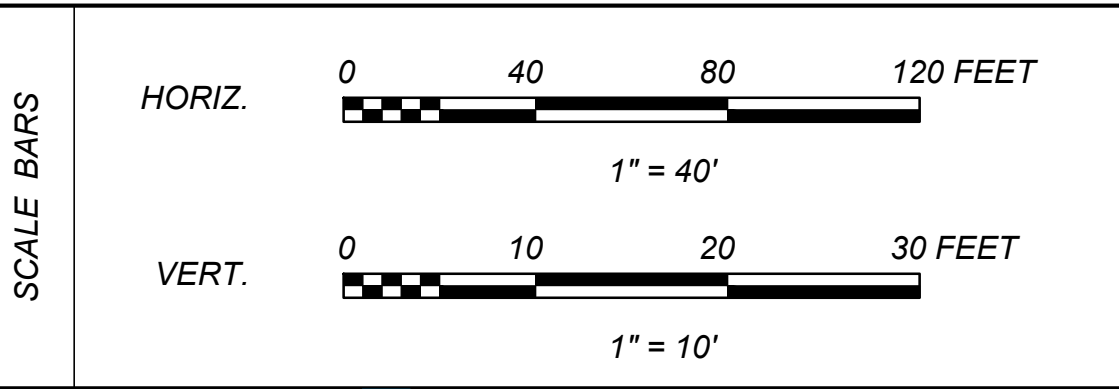








PREPARED WITH MWD
BRDR DATE: 01/29/2009



PREPARED BY:



ISSUE DESCRIPTION

100% DESIGN

ISSUE DATE APRIL 2017

DESIGNED

SD

DRAWN

JP

CHECKED

CC

FOR DRAWING APPROVALS SEE

**YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS**

**SUB-PROJECT 4
N-S RD STATION 47+25 TO 59+00**

SFCWA CONTRACT #

143939

CBEC PROJECT #

15-1025

SHEET

05

DWG

REV

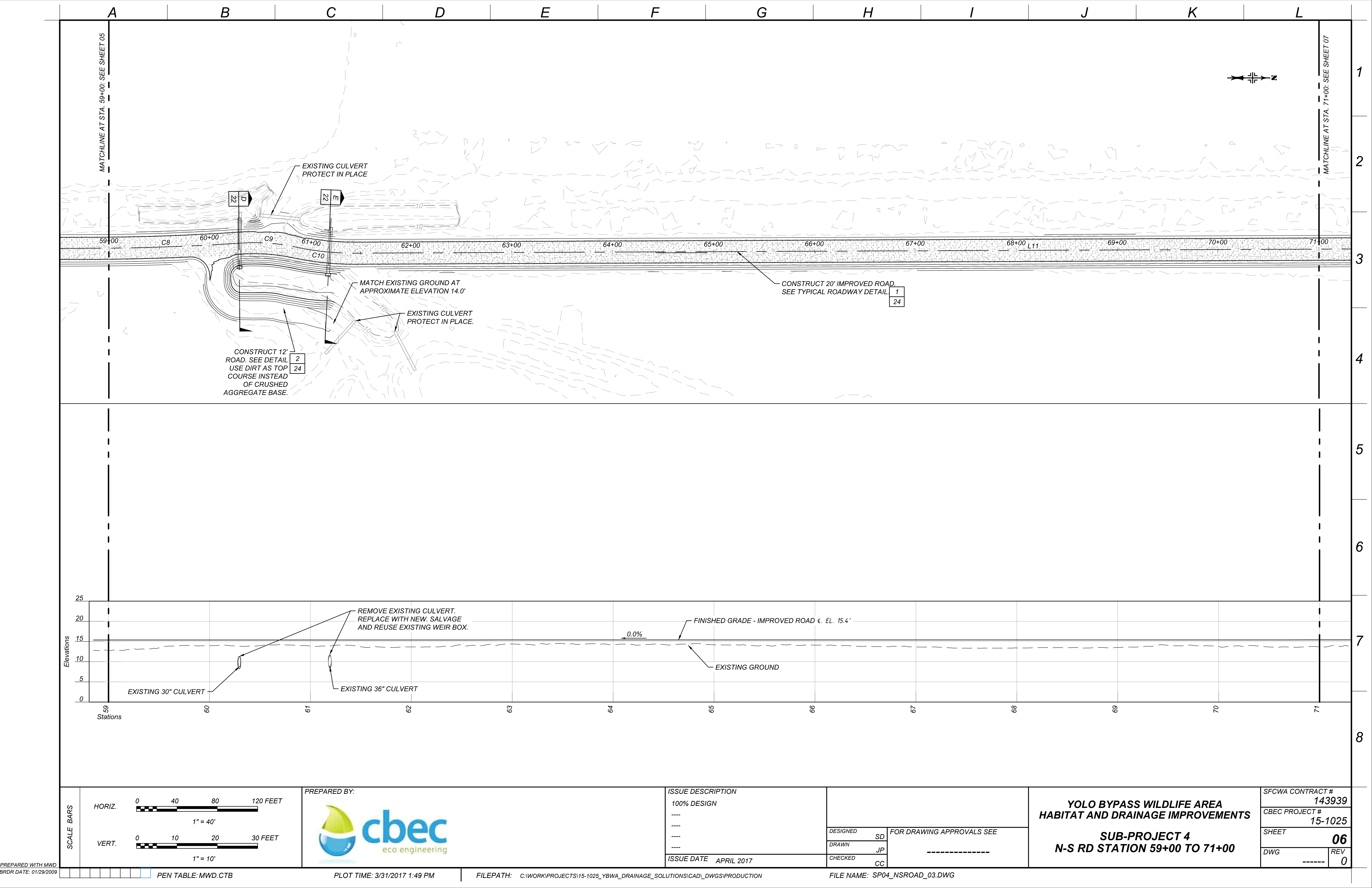
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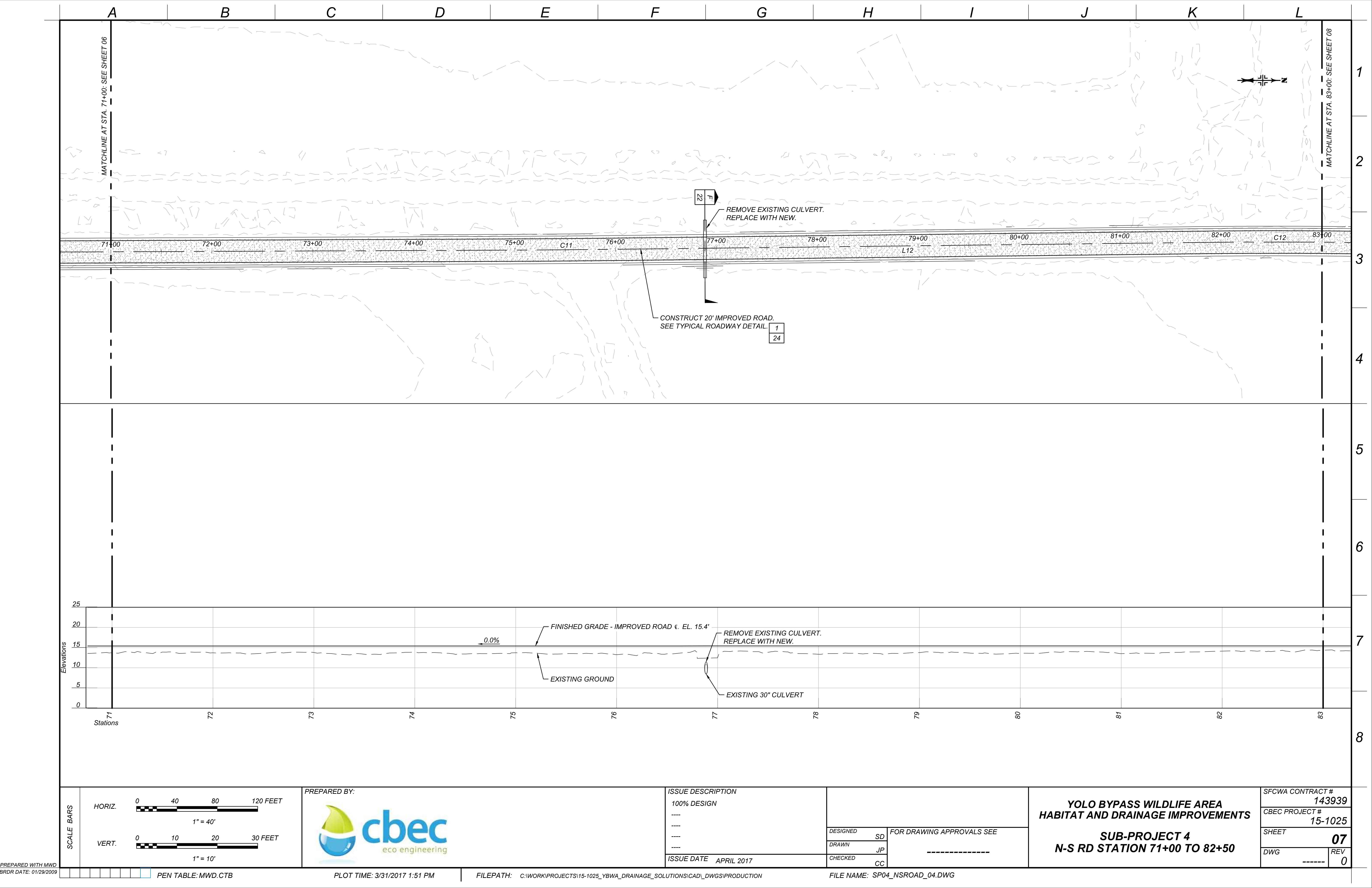
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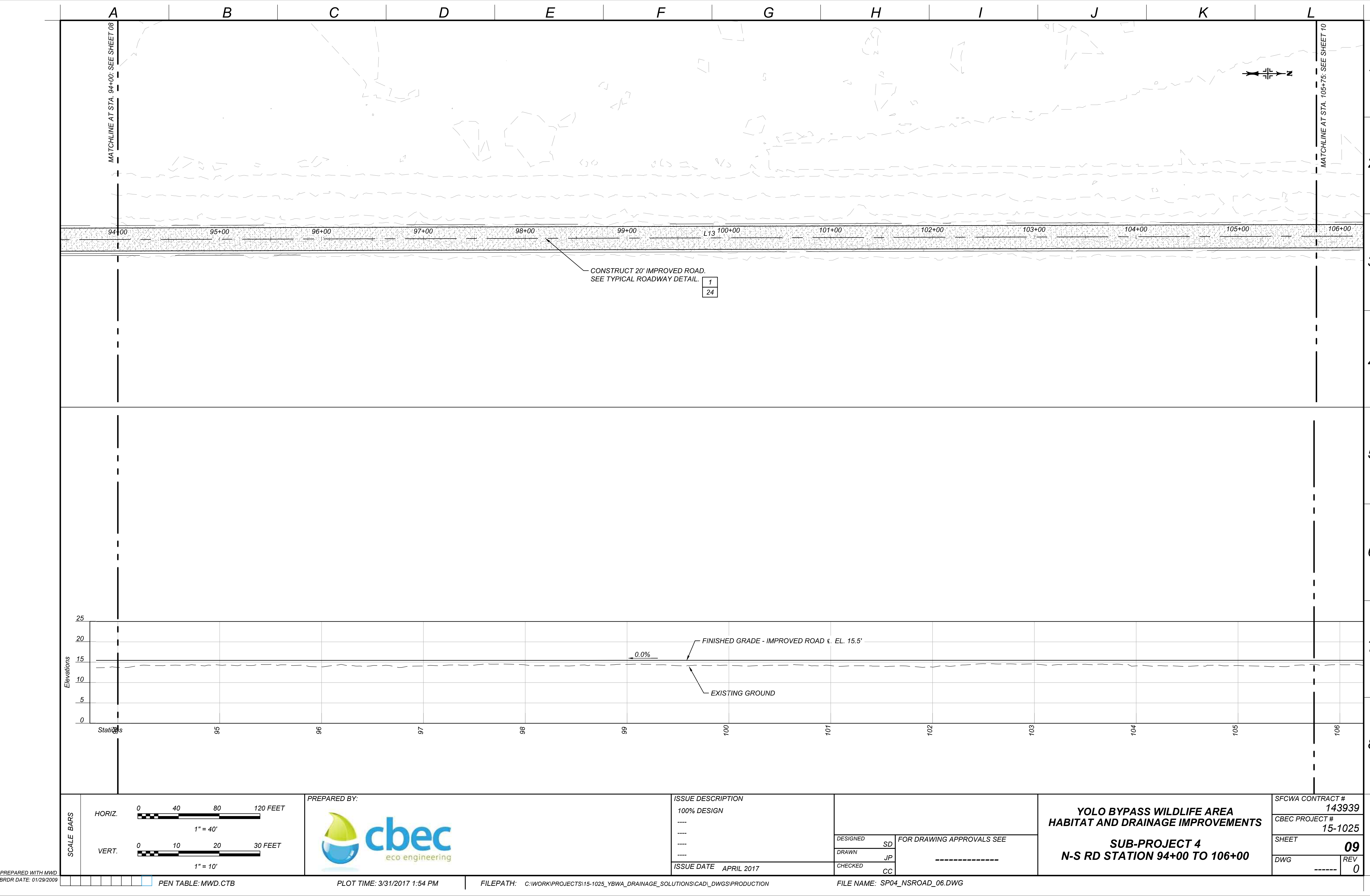
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PREPARED WITH MWD
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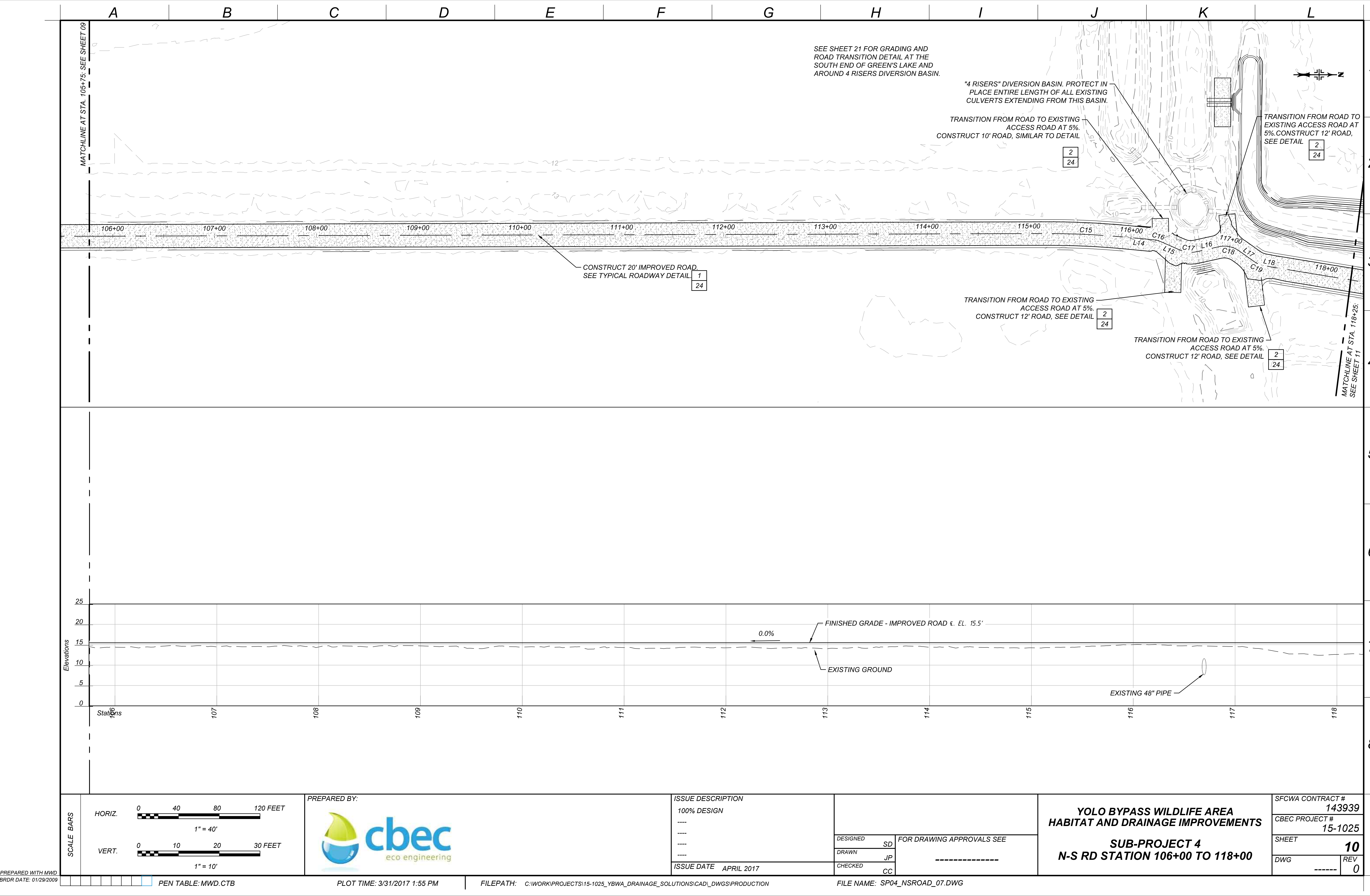
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FILE NAME: SP04_NSROAD_06.DWG

SCALE BARS	HORIZ.		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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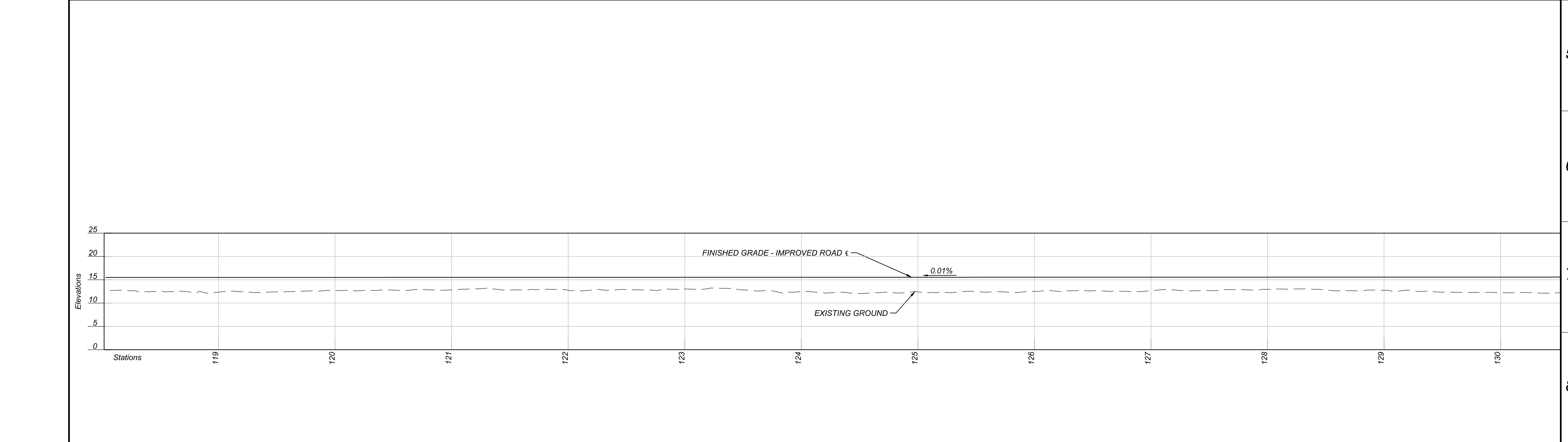
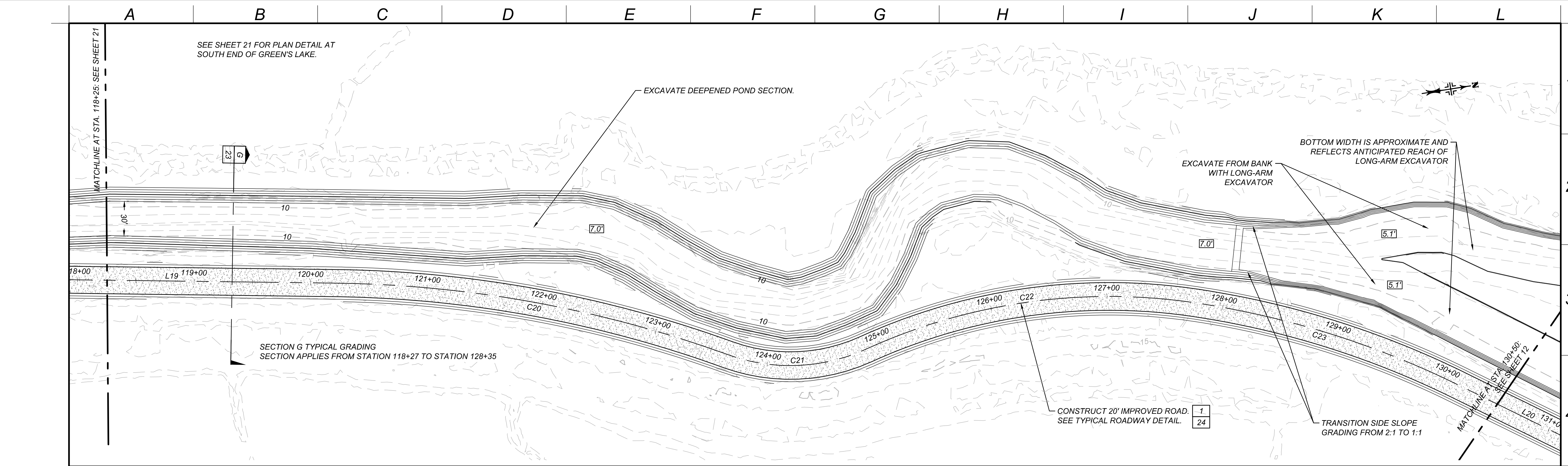
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BRDR DATE: 01/29/2009

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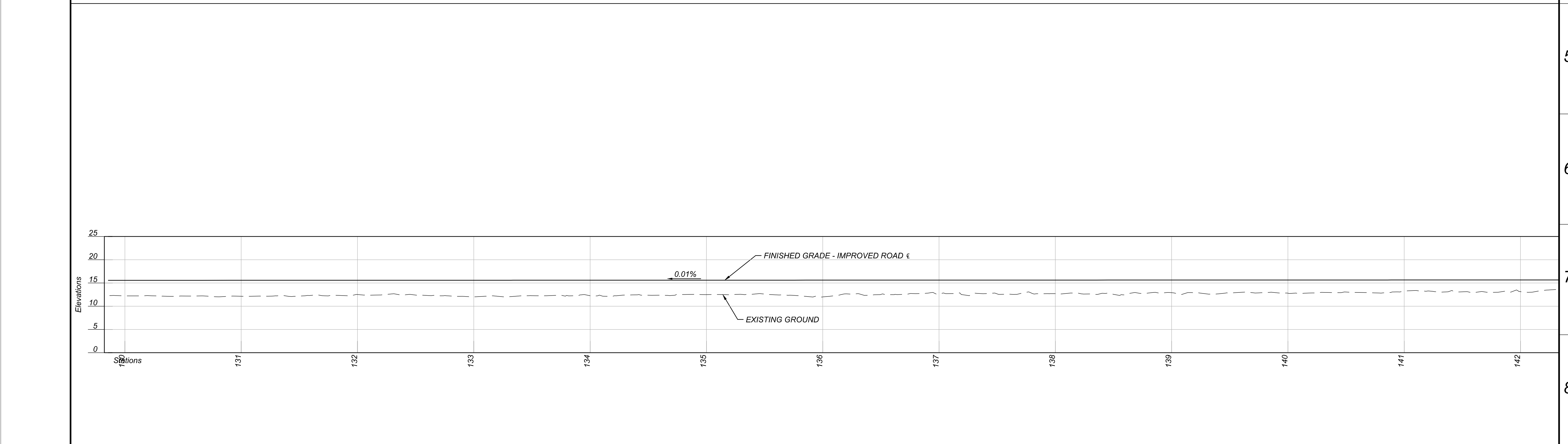
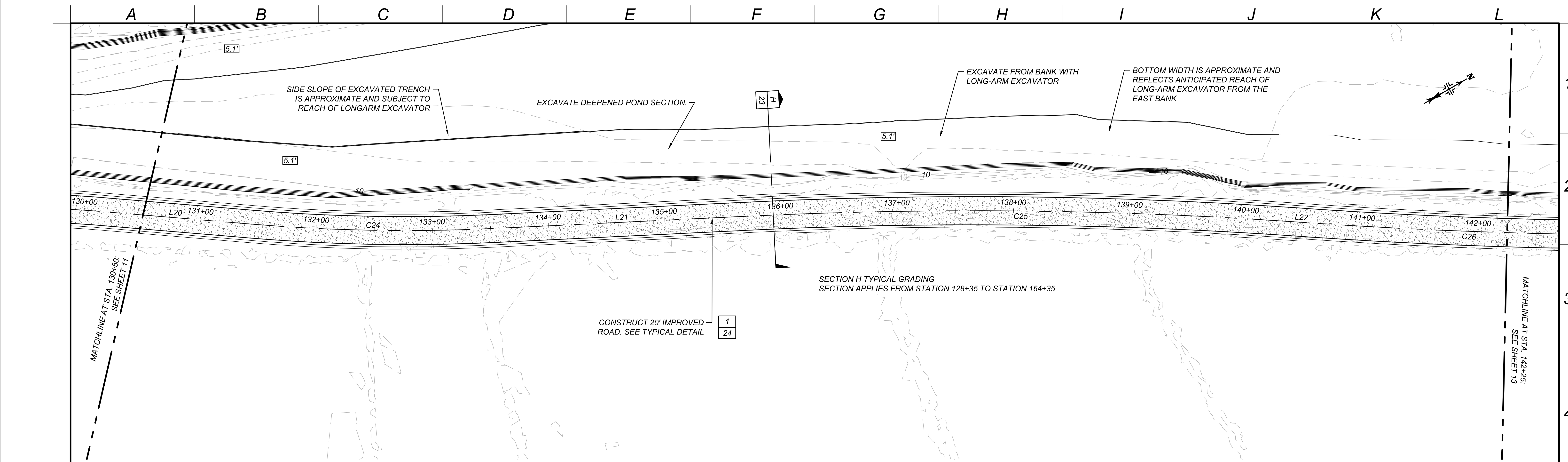
FILE NAME: SP04_NSROAD_07.DWG



SCALE BARS	HORIZ.	0	40	80	120 FEET
		1" = 40'			

VERT.	0	10	20	30 FEET	
	1" = 10'				

PREPARED BY: 					
ISSUE DESCRIPTION 100% DESIGN ----- ----- -----					
ISSUE DATE APRIL 2017					
DESIGNED SD			FOR DRAWING APPROVALS SEE		
DRAWN JP			-----		
CHECKED CC					
YOLO BYPASS WILDLIFE AREA HABITAT AND DRAINAGE IMPROVEMENTS SUB-PROJECT 2 GL STATION 118+25 TO 130+50					
SFCWA CONTRACT # 143939					
CBEC PROJECT # 15-1025					
SHEET 11					
DWG ----- REV 0					
PREPARED WITH MWD BRDR DATE: 01/29/2009					
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FILE NAME: SP02_GREENSLAKE_01.DWG					



SCALE BARS

HORIZ.

0 40 80 120 FEET


1" = 40'

VERT.

0 10 20 30 FEET

1" = 10'

PREPARED BY:



cbec
eco engineering

ISSUE DESCRIPTION

100% DESIGN

ISSUE DATE

APRIL 2017

DESIGNED

SD

FOR DRAWING APPROVALS SEE

DRAWN

JP

CHECKED

CC

YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS

SUB-PROJECT 2
GL STATION 130+50 TO 142+25

SFCWA CONTRACT #

143939

CBEC PROJECT #

15-1025

SHEET

12

DWG

REV

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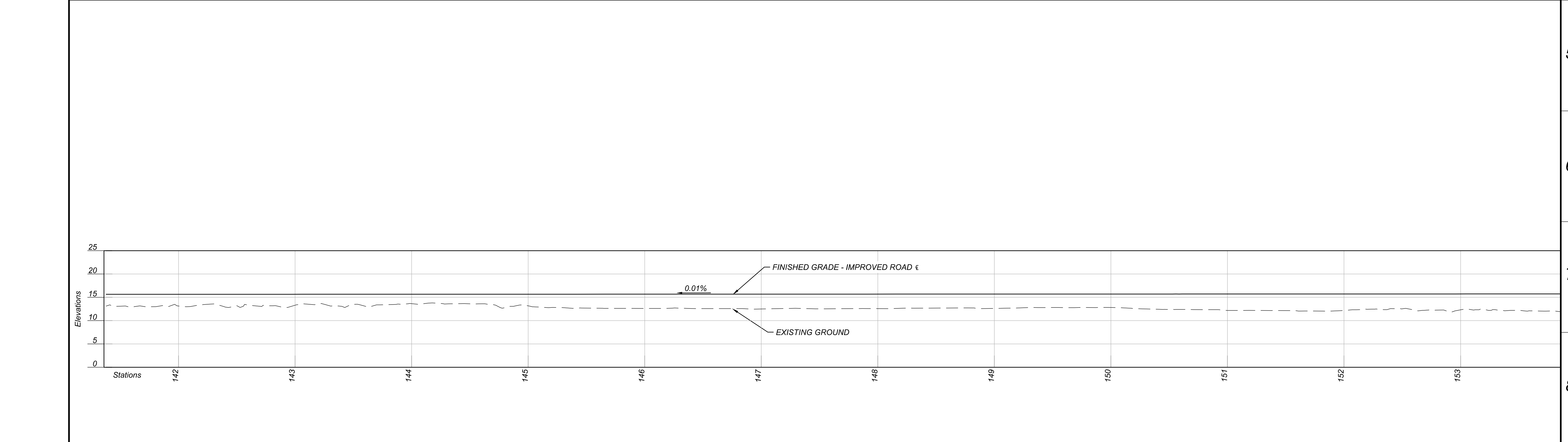
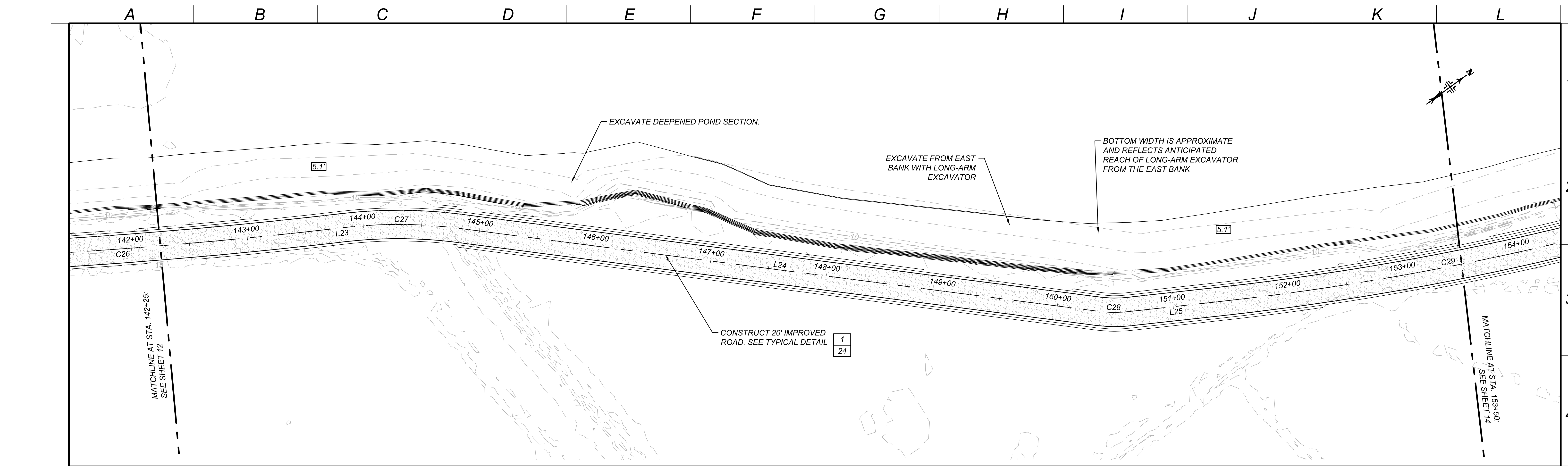
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FILE NAME: SP02_GREENSLAKE_02.DWG



SCALE BARS

HORIZ.

0 40 80 120 FEET

1" = 40'

VERT.

0 10 20 30 FEET

1" = 10'

PREPARED BY:

ISSUE DESCRIPTION

100% DESIGN

ISSUE DATE

APRIL 2017

DESIGNED

SD

FOR DRAWING APPROVALS SEE

DRAWN

JP

CHECKED

CC

YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS

SUB-PROJECT 2
GL STATION 142+25 TO 153+50

SFCWA CONTRACT #

143939

CBEC PROJECT #

15-1025

SHEET

13

DWG

REV

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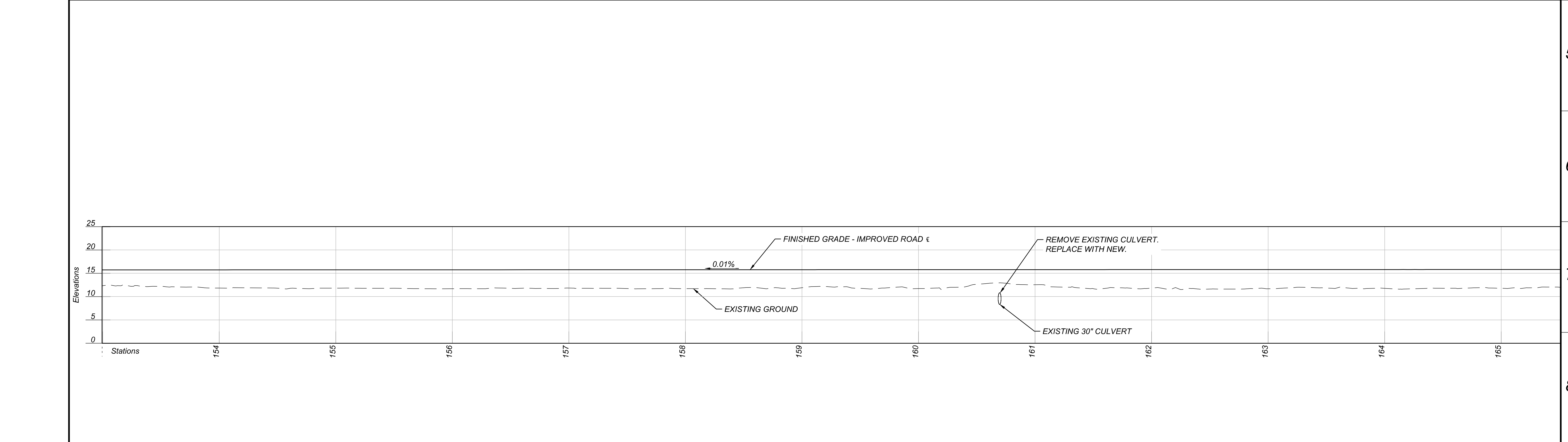
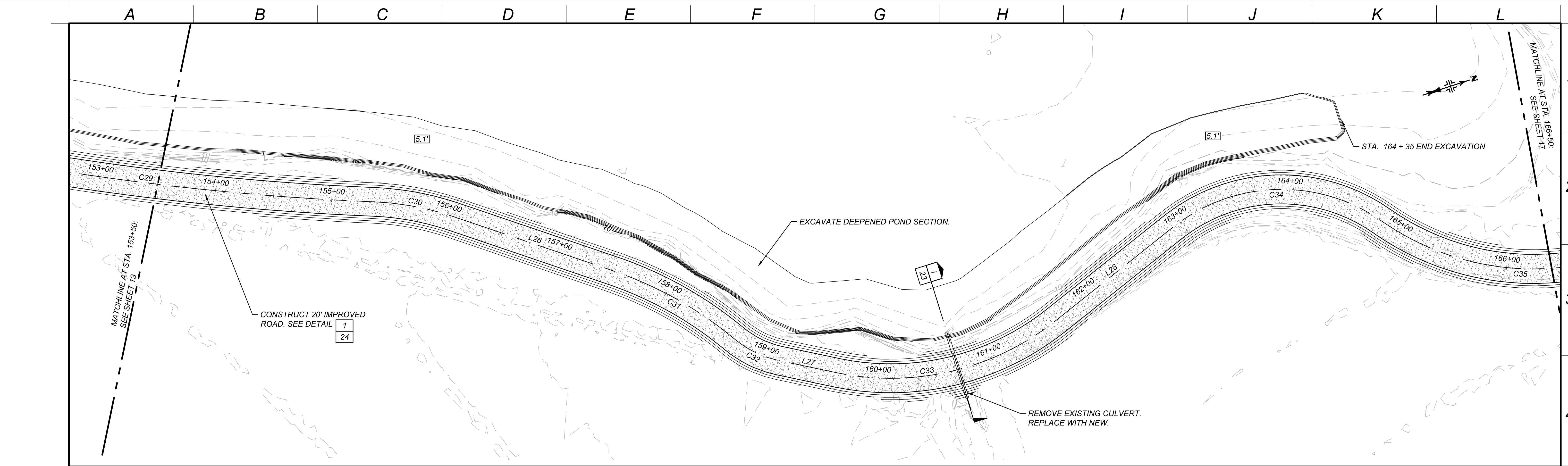
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FILE NAME: SP02_GREENSLAKE_03.DWG



SCALE BARS

HORIZ.

0 40 80 120 FEET


1" = 40'

VERT.

0 10 20 30 FEET

1" = 10'

PREPARED BY:



cbec
eco engineering

ISSUE DESCRIPTION

100% DESIGN

ISSUE DATE

APRIL 2017

DESIGNED

SD

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DRAWN

JP

CHECKED

CC

YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS

SUB-PROJECT 2
GL STATION 153+50 TO 166+50

SFCWA CONTRACT #

143939

CBEC PROJECT #

15-1025

SHEET

14

DWG

REV

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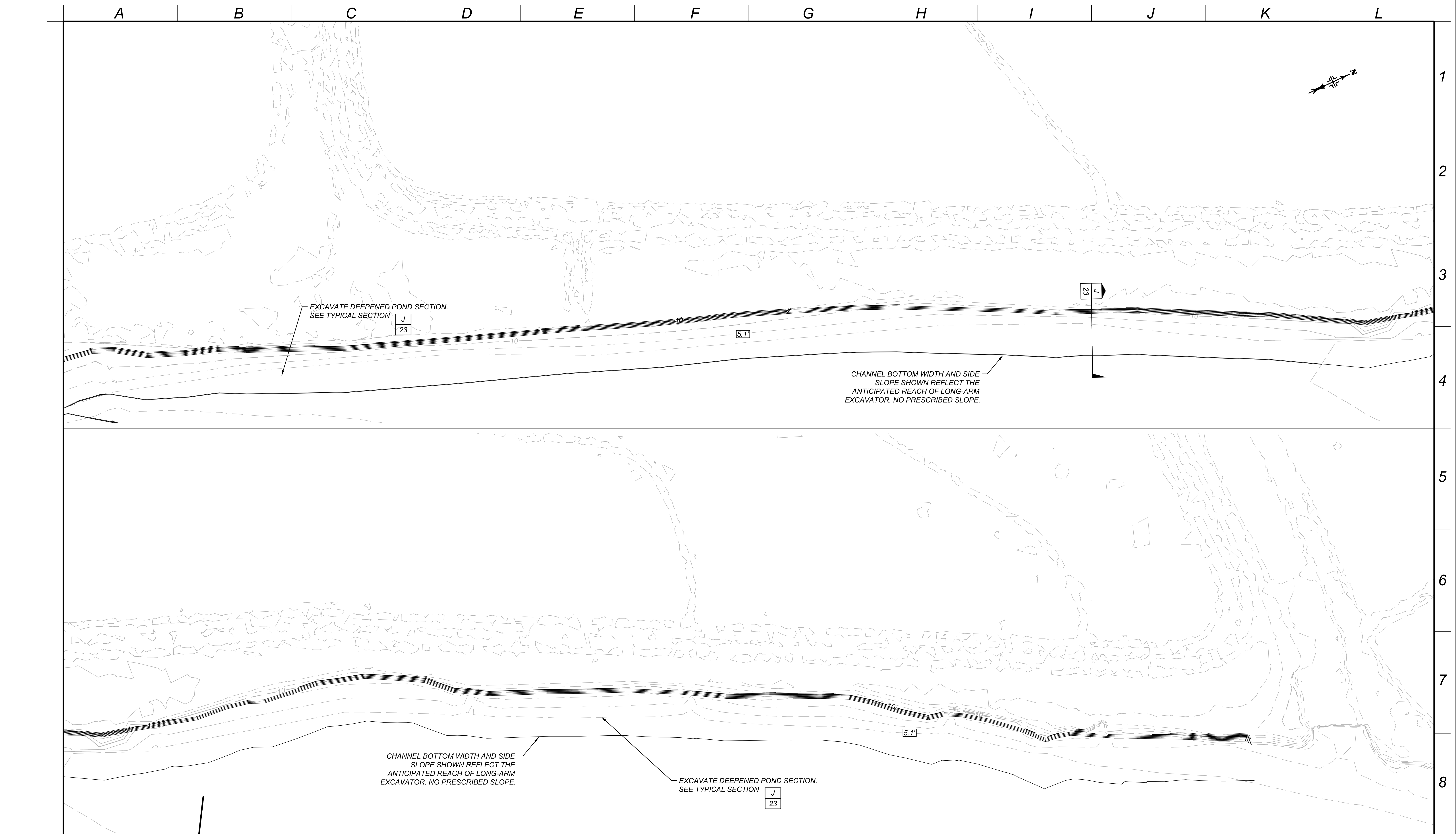
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FILE NAME: SP02_GREENSLAKE_04.DWG




SCALE BARS

04080120 FEET

1" = 40'

PREPARED BY:



ISSUE DESCRIPTION

100% DESIGN

ISSUE DATE

APRIL 2017

DESIGNED

SD

DRAWN

JP

CHECKED

CC

FOR DRAWING APPROVALS SEE

YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS

SUB-PROJECT 2
POND IMPROVEMENTS 01

SFCWA CONTRACT #

143939

CBEC PROJECT #

15-1025

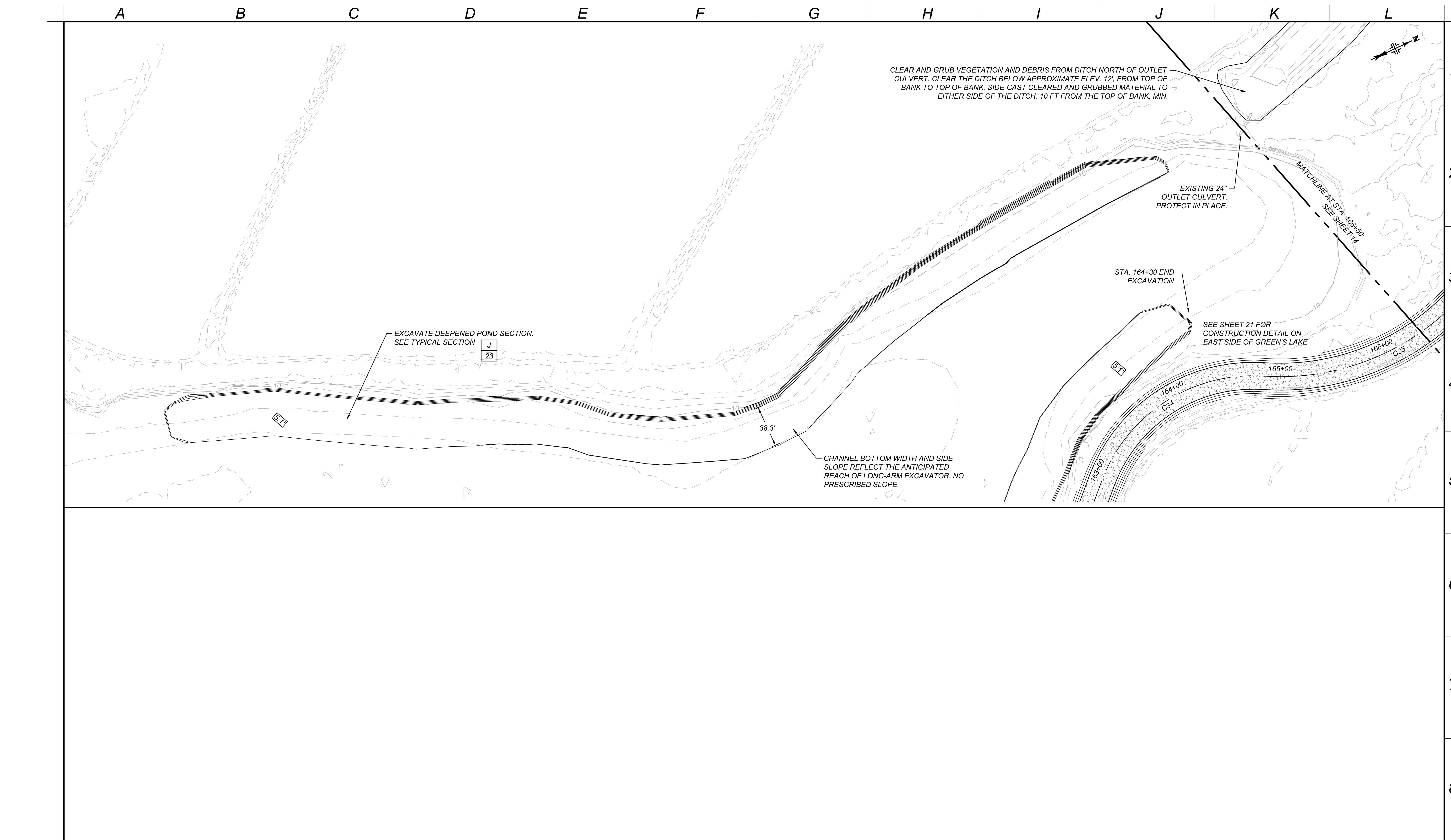
SHEET

15

DWG

REV

0



SCALE BARS

04080120 FEET

1" = 40'

PREPARED BY:

ISSUE DESCRIPTION

100% DESIGN

ISSUE DATE

APRIL 2017

DESIGNED

SD

DRAWN

JP

CHECKED

CC

FOR DRAWING APPROVALS SEE

YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS

SUB-PROJECT 2
POND IMPROVEMENTS 02

SFCWA CONTRACT #

143939

CBEC PROJECT #

15-1025

SHEET

16

DWG

REV

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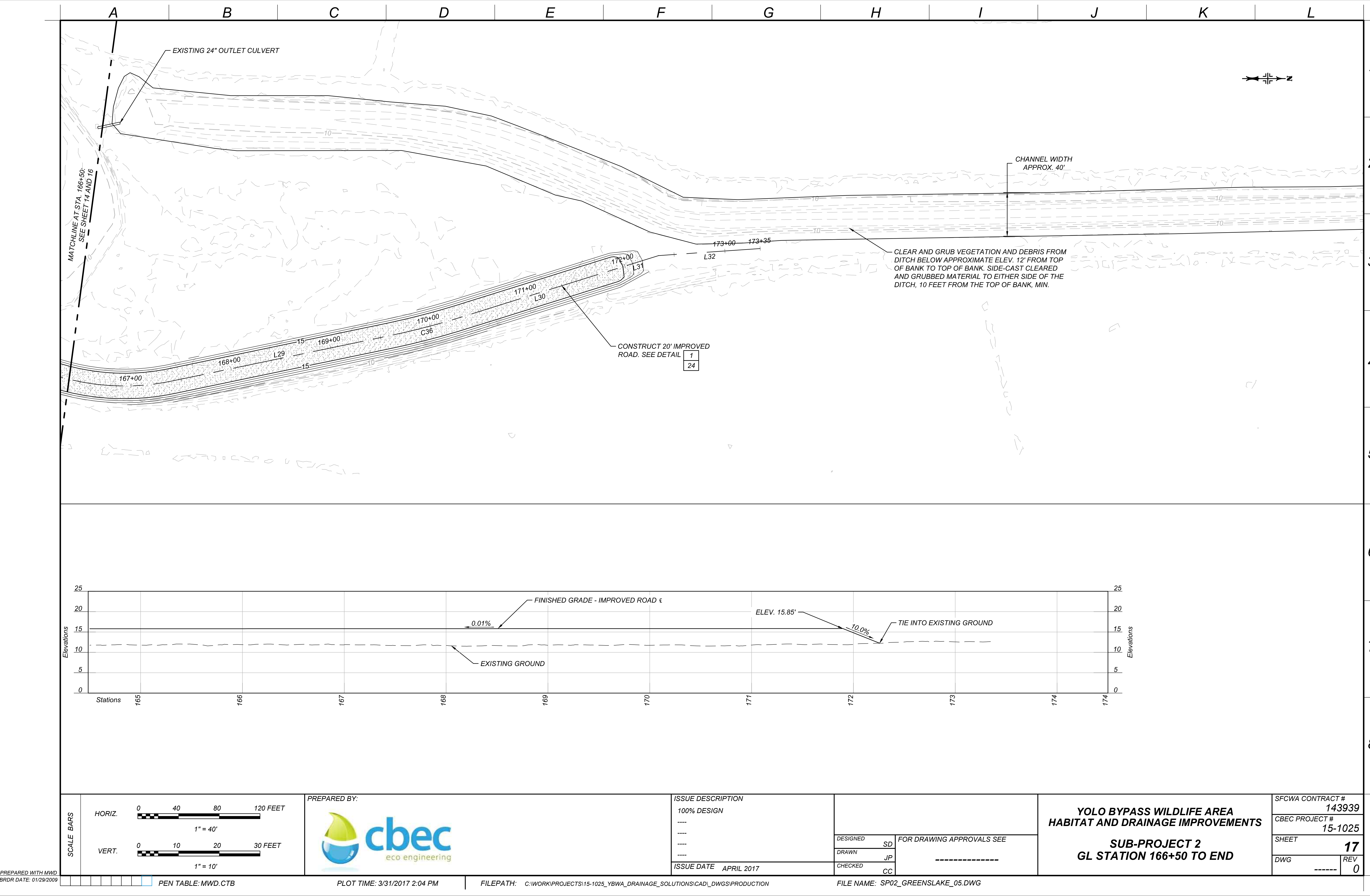
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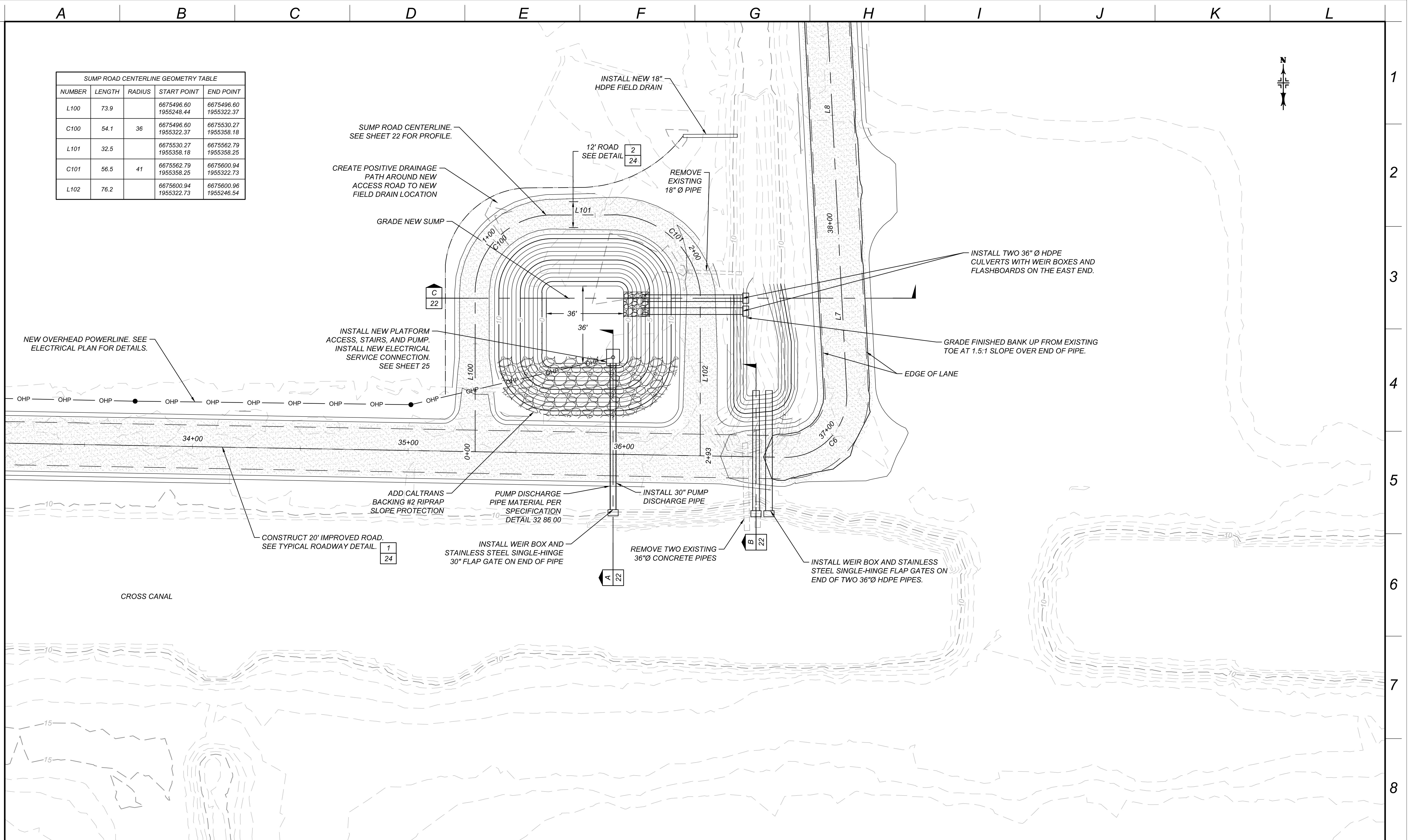
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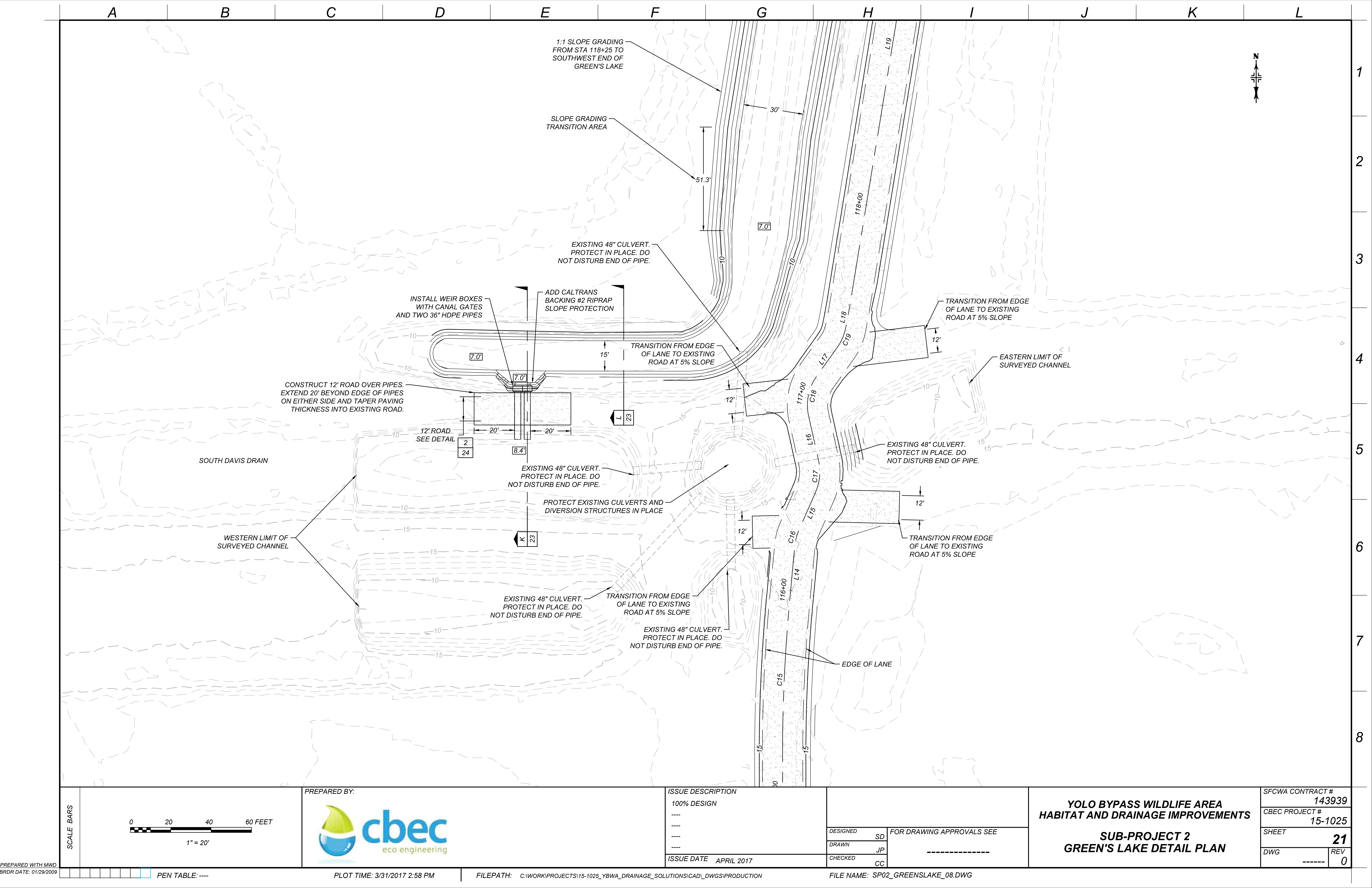
FILE NAME: SP02_GREENSLAKE_07.DWG



SUMP ROAD CENTERLINE GEOMETRY TABLE				
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C100	54.1	36	6675496.60 1955322.37	6675530.27 1955358.18
L101	32.5		6675530.27 1955358.18	6675562.79 1955358.25
C101	56.5	41	6675562.79 1955358.25	6675600.94 1955322.73
L102	76.2		6675600.94 1955322.73	6675600.96 1955246.54

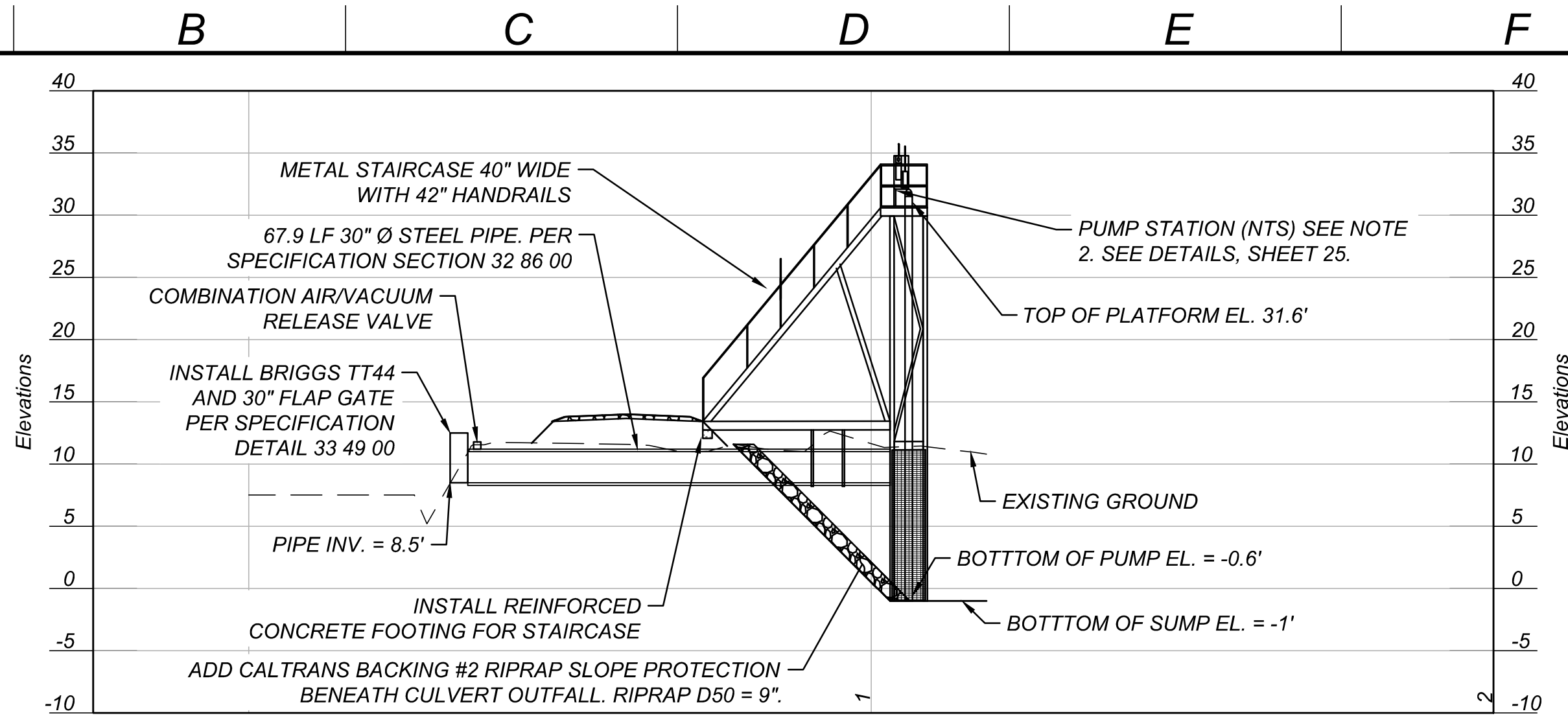


SCALE BARS			<div>PREPARED BY:</div> 		<div>ISSUE DESCRIPTION</div> <div>100% DESIGN</div> <div>----</div> <div>----</div> <div>----</div> <div>----</div> <div>ISSUE DATE APRIL 2017</div>		<div>DESIGNED SD</div> <div>DRAWN JP</div> <div>CHECKED CC</div> <div>FOR DRAWING APPROVALS SEE</div> <div>-----</div>		<div>YOLO BYPASS WILDLIFE AREA</div> <div>HABITAT AND DRAINAGE IMPROVEMENTS</div> <div> </div> <div>SUB-PROJECT 4</div> <div>PUMP STATION PLAN</div>		SFCWA CONTRACT #	
											143939	
											CBEC PROJECT #	
							15-1025					
SHEET		20		DWG		-----		REV		0		
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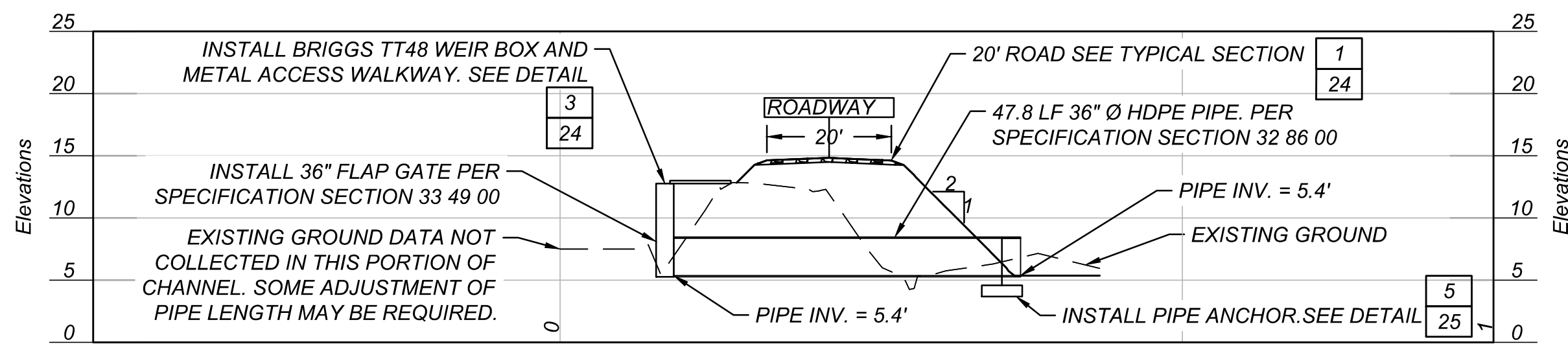


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							CBEC PROJECT # 15-1025	
							SHEET 21	
							DWG -----	REV 0
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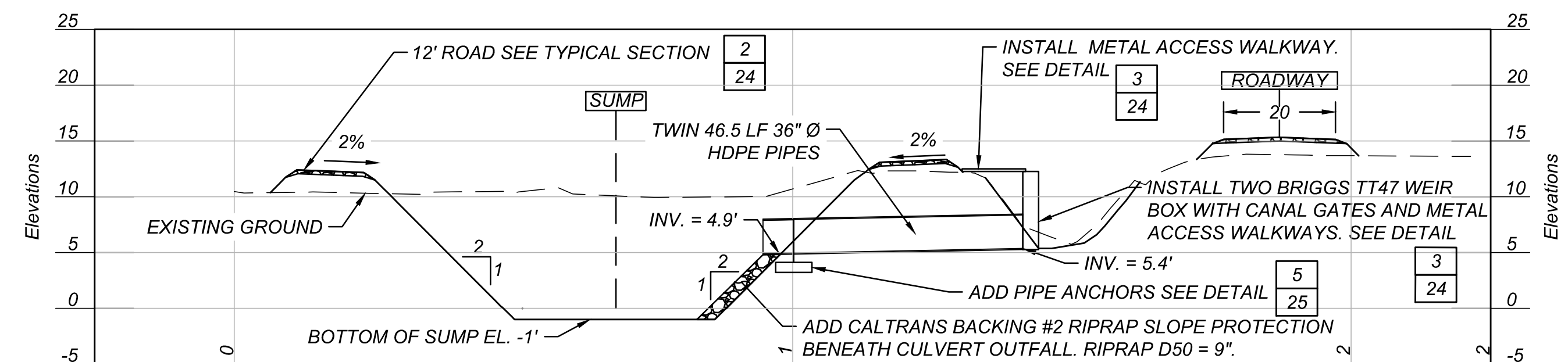
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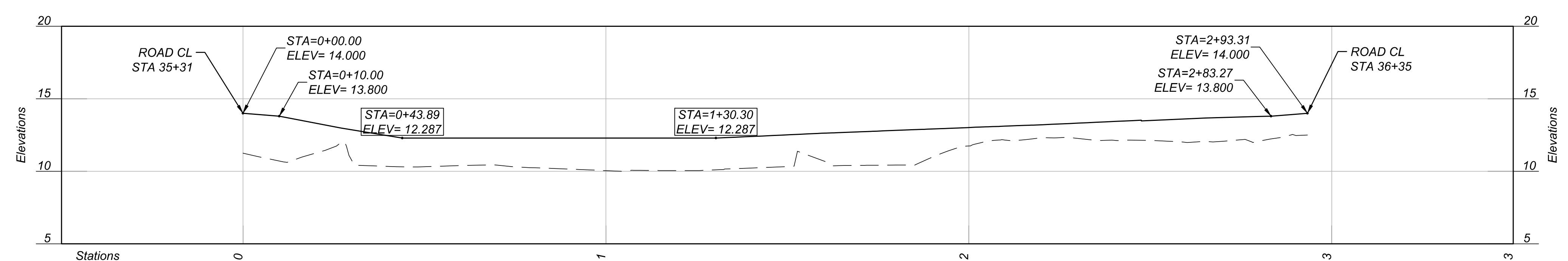
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SECTION B
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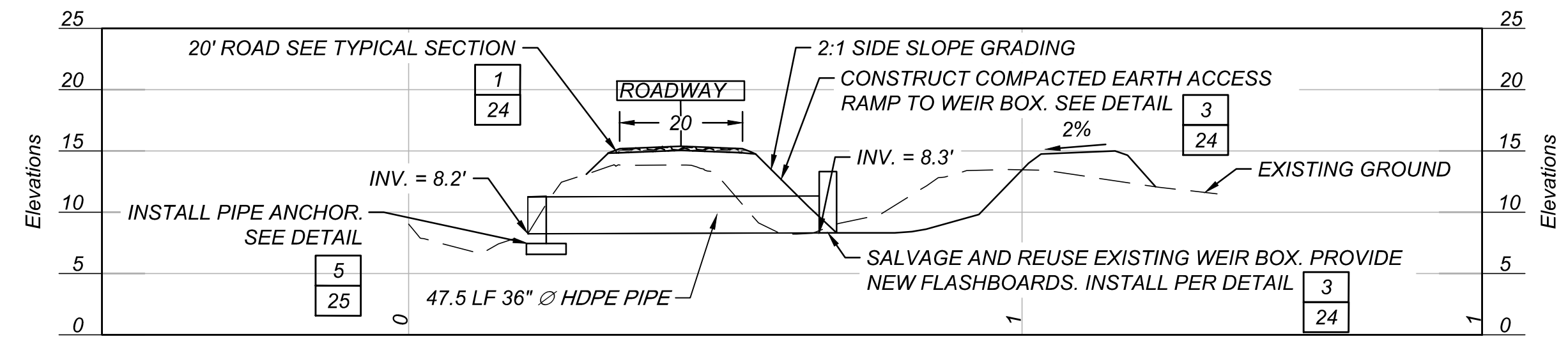


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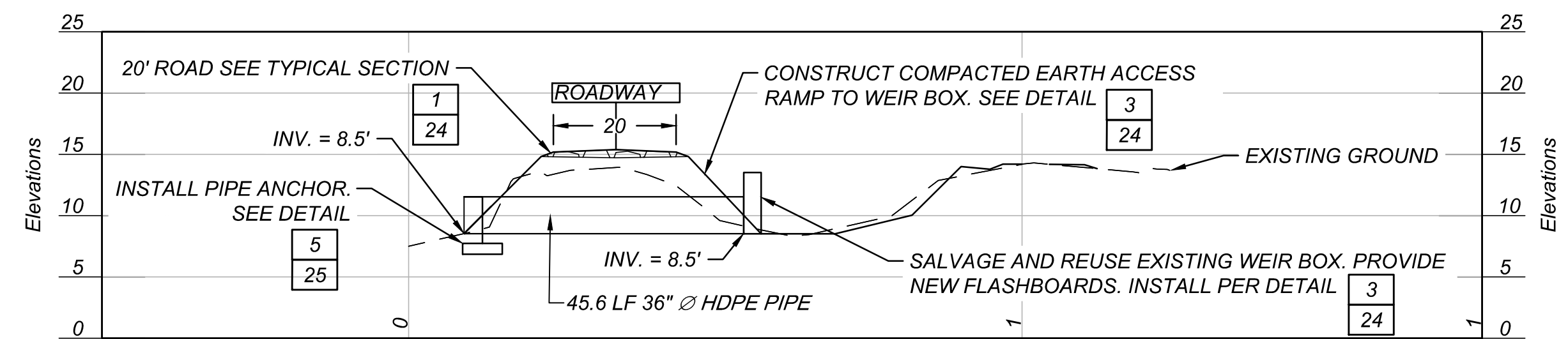


SUMP ROAD CL PROFILE

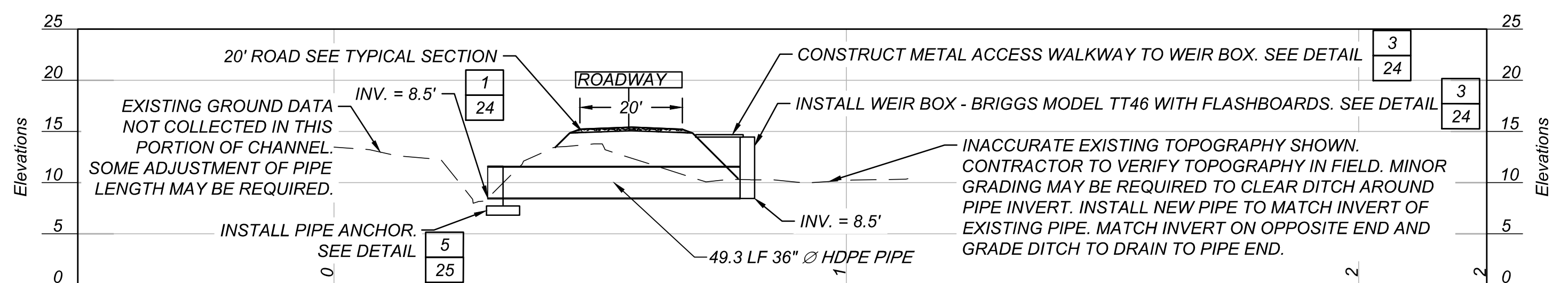
- NOTES:
1. INSTALL CULVERTS, WEIR BOXES AND WEIR BOX ACCESS DETAIL 3, SHEET 24.
 2. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW PUMP STATION STRUCTURE. PUMP STATION STRUCTURE SHALL BE DESIGNED BY A CALIFORNIA CERTIFIED STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT PUMP STATION STRUCTURE PLANS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.



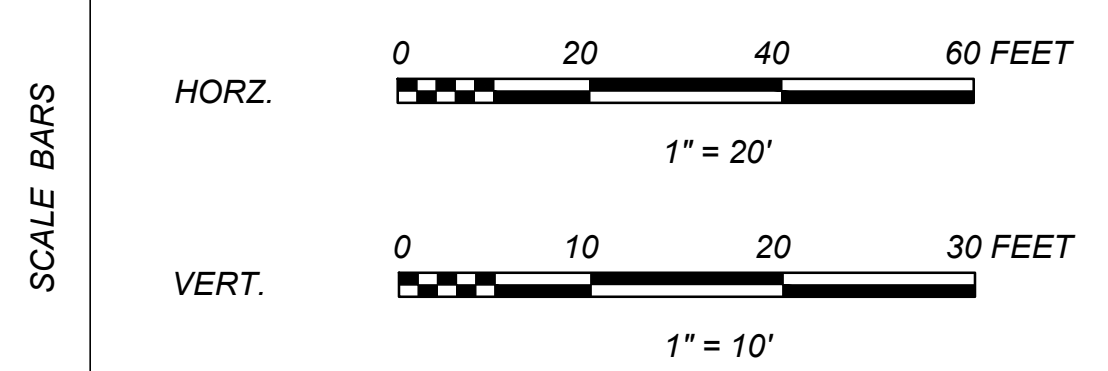
SECTION D
1" = 20'



SECTION E
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SECTION F
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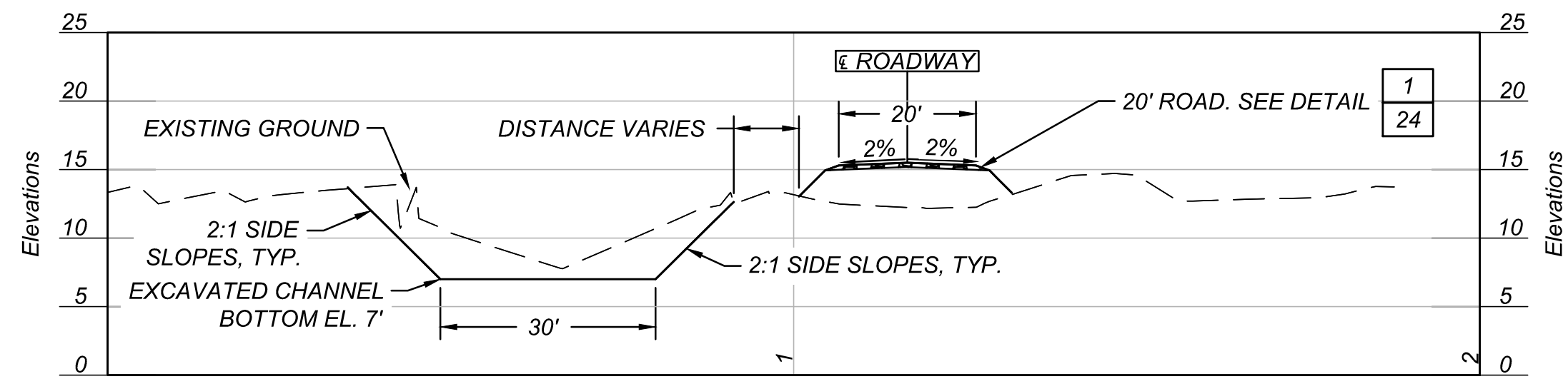


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CHECKED CC	
ISSUE DATE APRIL 2017	

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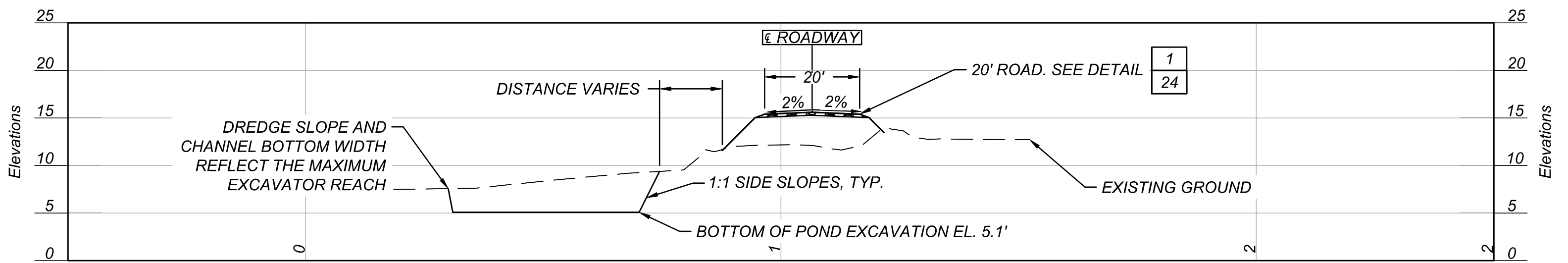
YOLO BYPASS WILDLIFE AREA HABITAT AND DRAINAGE IMPROVEMENTS
SUB-PROJECT 4 GRADING AND CULVERT SECTIONS

SFCWA CONTRACT #	143939
CBEC PROJECT #	15-1025
SHEET	22
DWG	REV 0



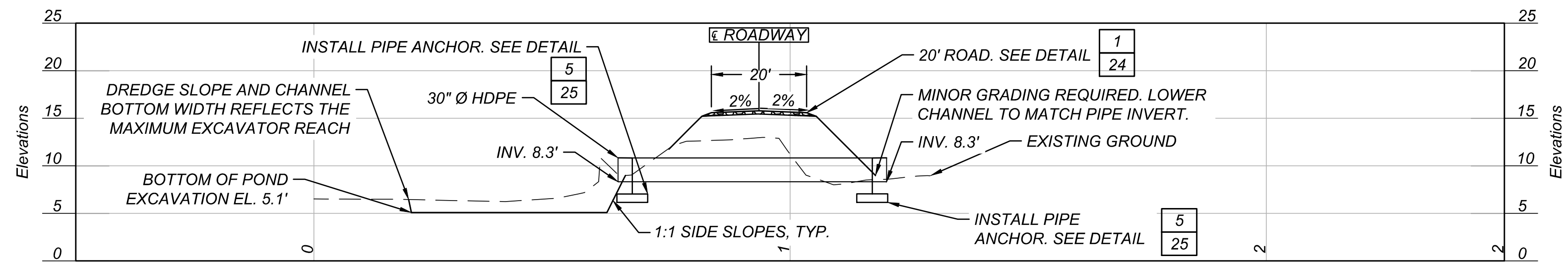
TYPICAL GRADING SECTION - GREENS LAKE EAST STA 118+27 TO 128+35
1" = 20'

G
11



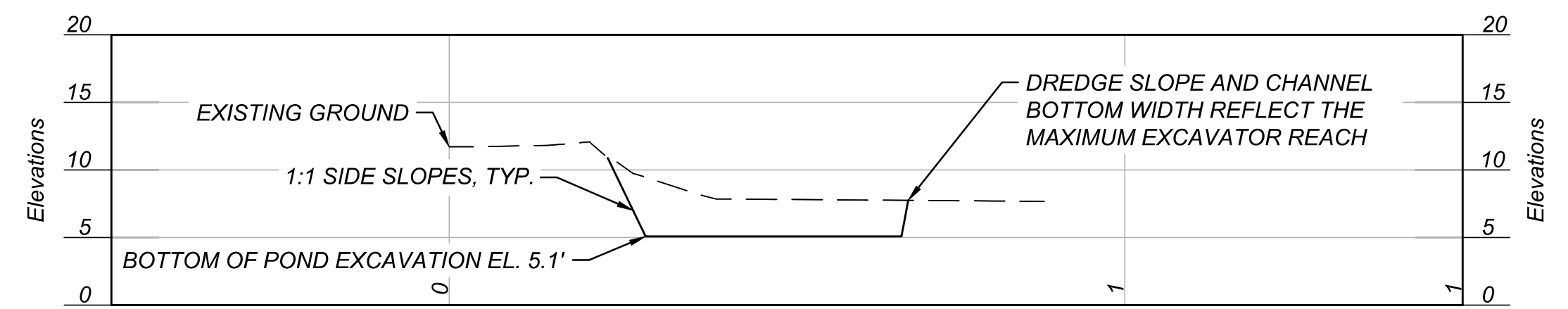
TYPICAL GRADING SECTION - GREENS LAKE EAST STA 128+35 TO 164+35
1" = 20'

H
12



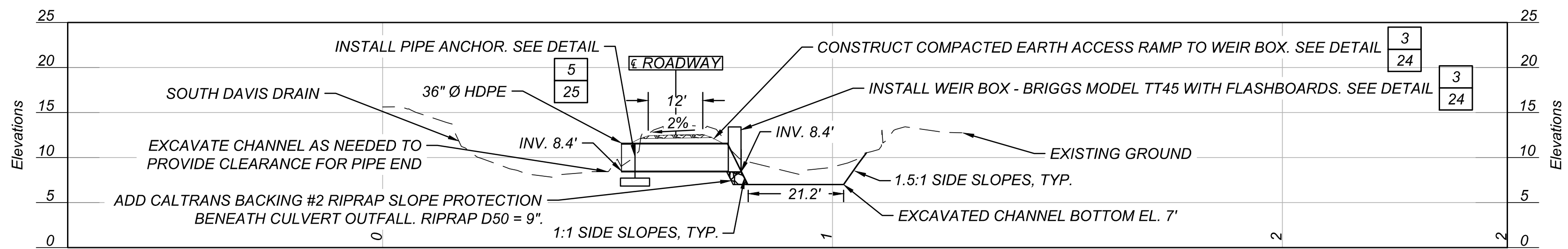
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I
14



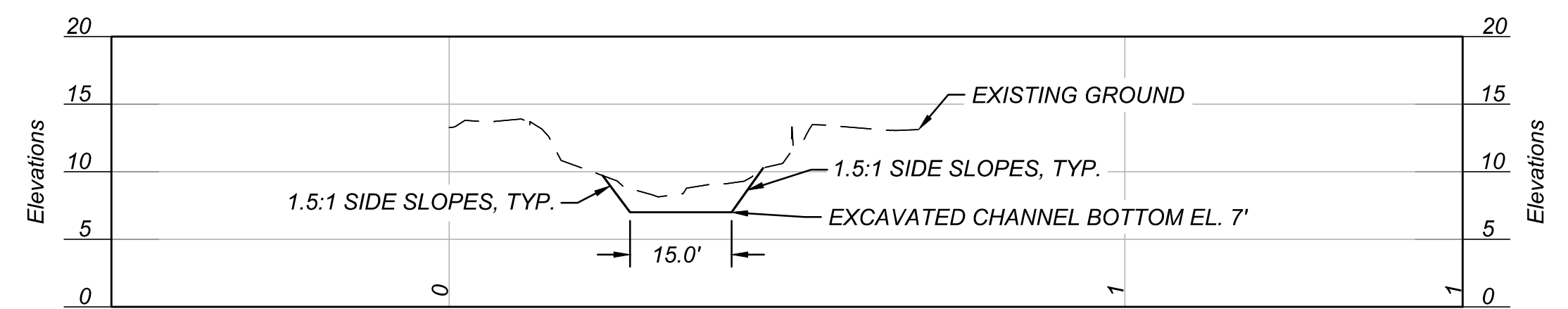
TYPICAL GRADING SECTION - GREENS LAKE WEST STA 128+35 TO 164+35
1" = 20'

J
15



SECTION
1" = 20'

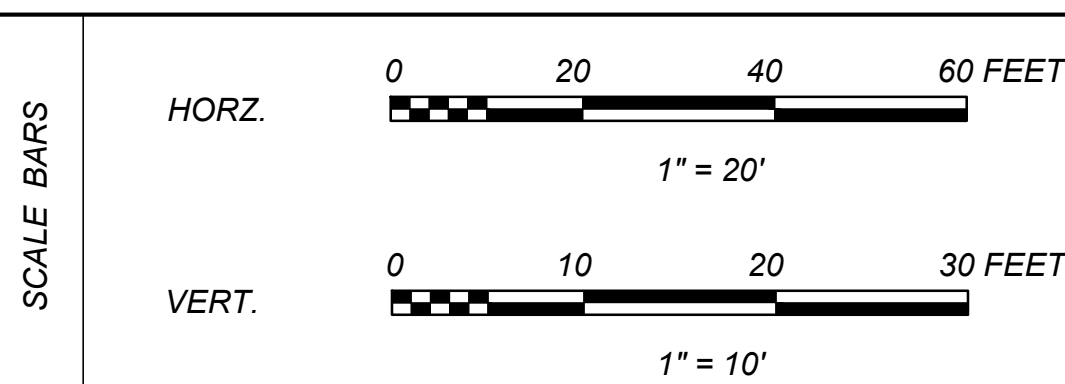
K
21



TYPICAL GRADING SECTION - GREENS LAKE FOOT TO STATION 117+55
1" = 20'

L
21

NOTES:
1. INSTALL CULVERTS, WEIR BOXES AND WEIR BOX ACCESS DETAIL 3, SHEET 24.



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ISSUE DESCRIPTION

100% DESIGN

ISSUE DATE APRIL 2017

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FOR DRAWING APPROVALS SEE

YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS

SUB-PROJECT 2
GL GRADING AND CULVERT SECTIONS

SFCWA CONTRACT #

143939

CBEC PROJECT #

15-1025

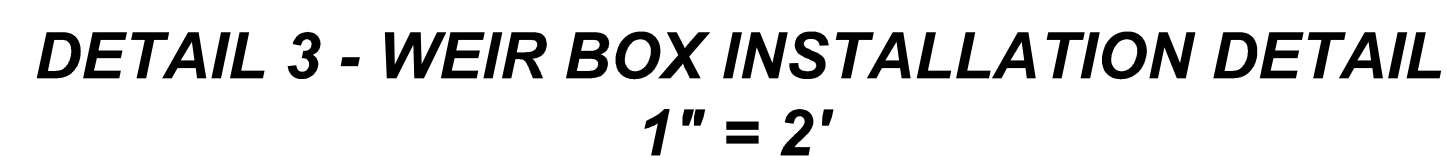
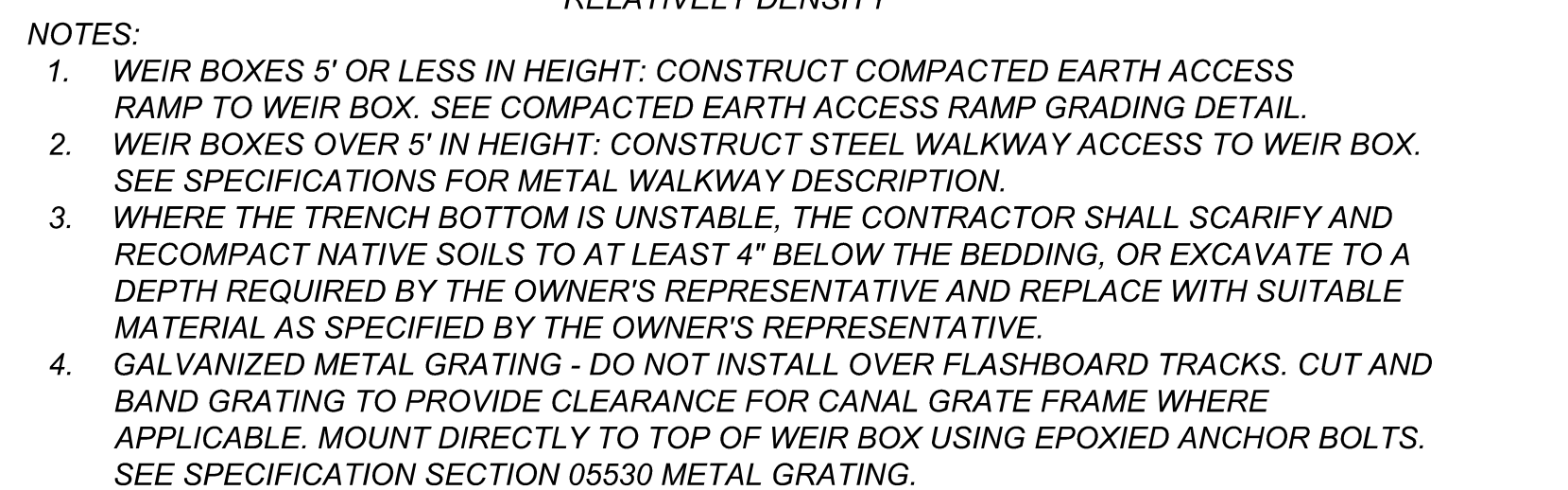
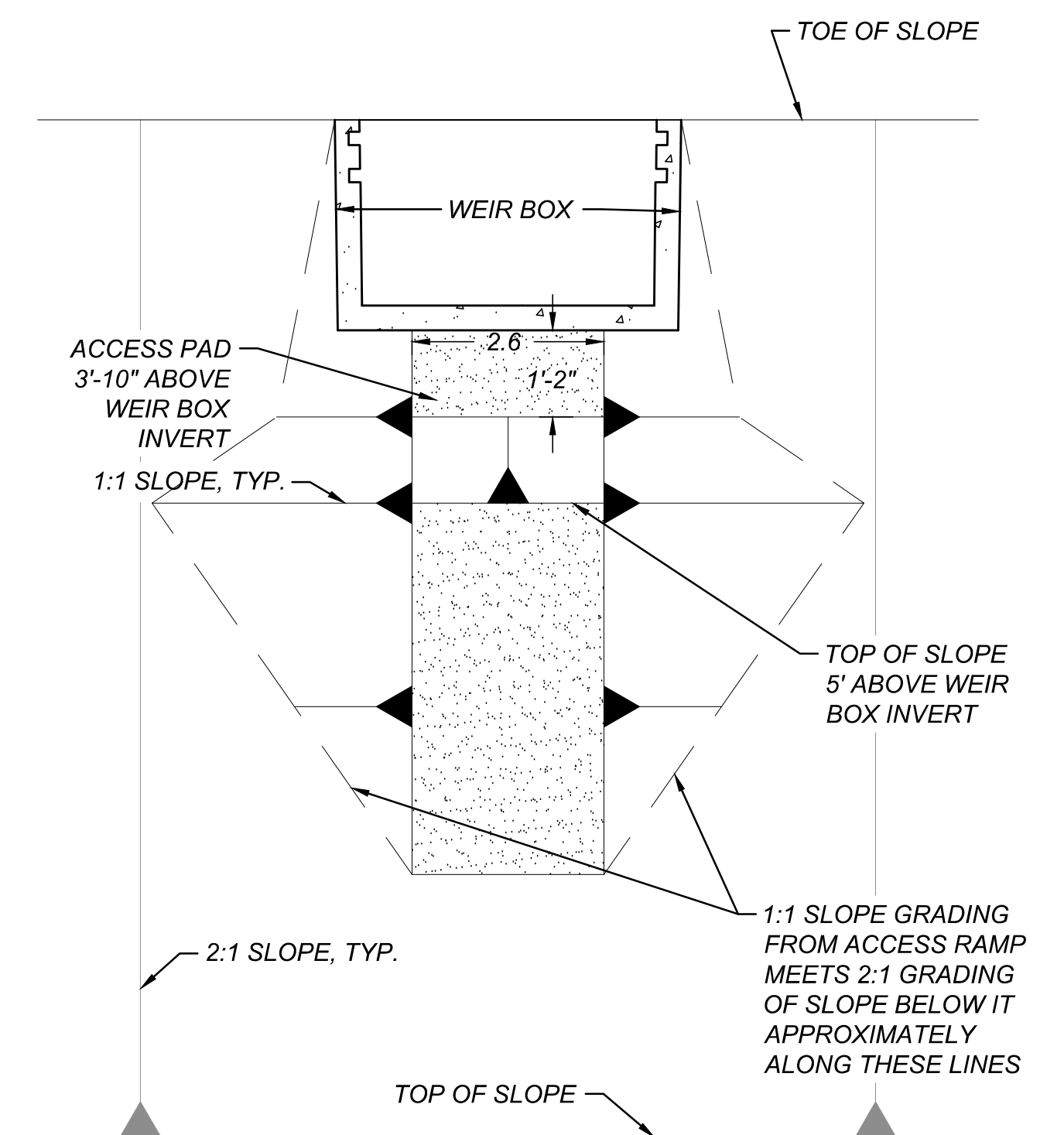
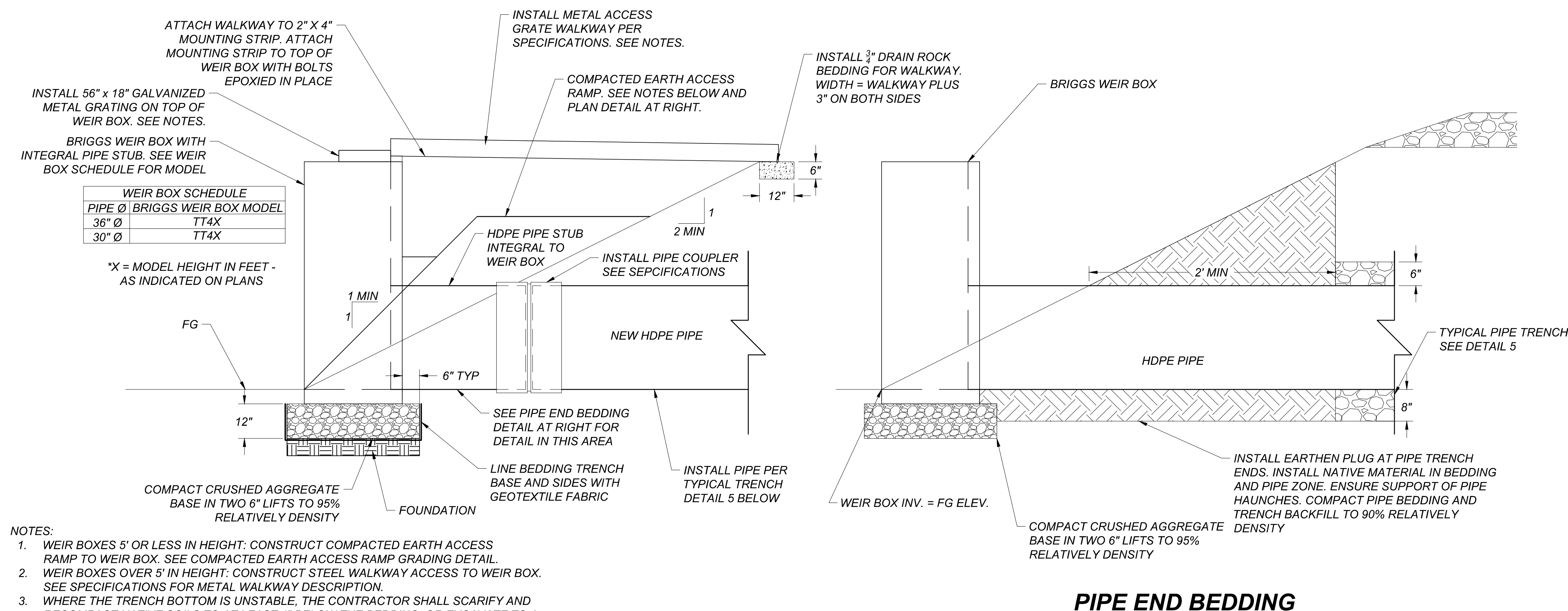
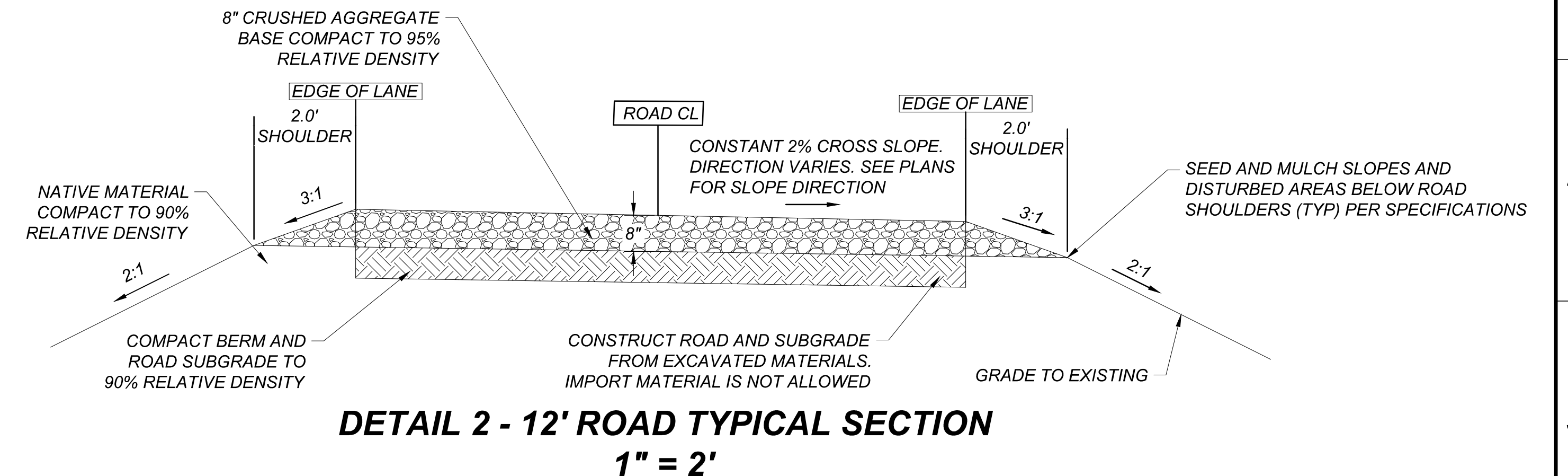
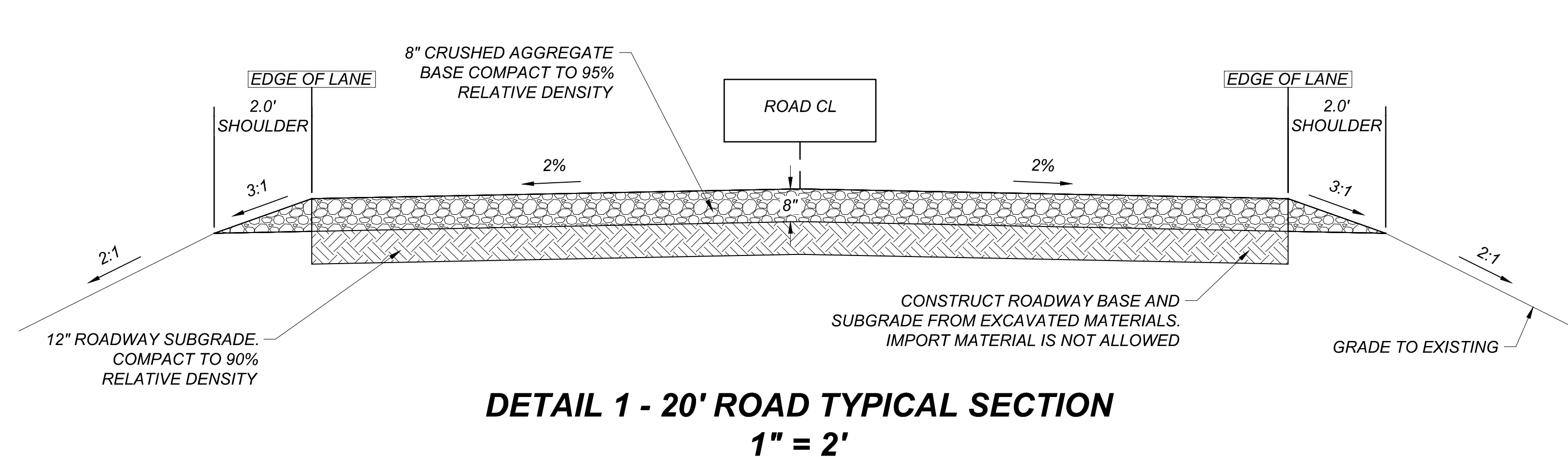
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23

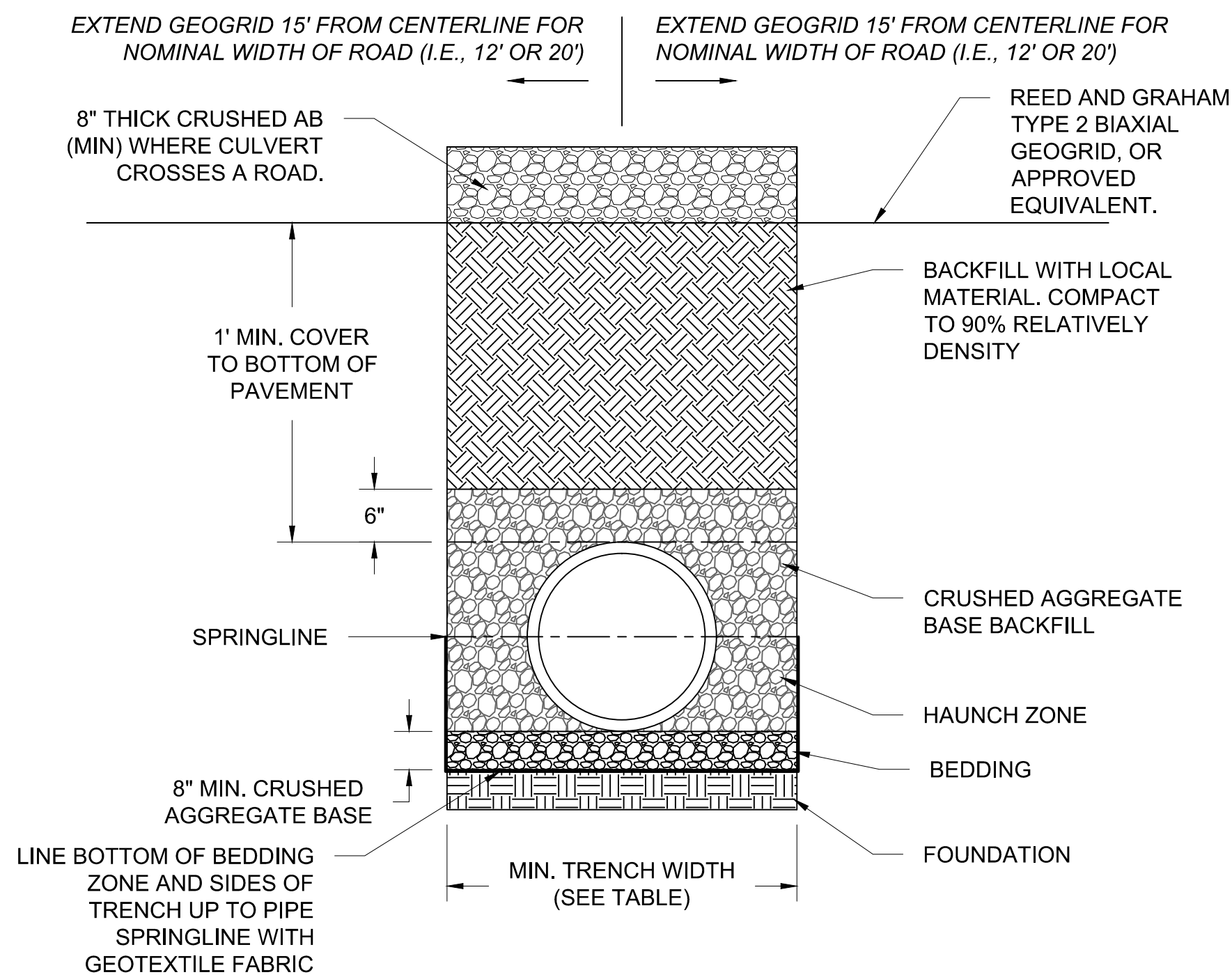
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A B C D E F G H I J K L



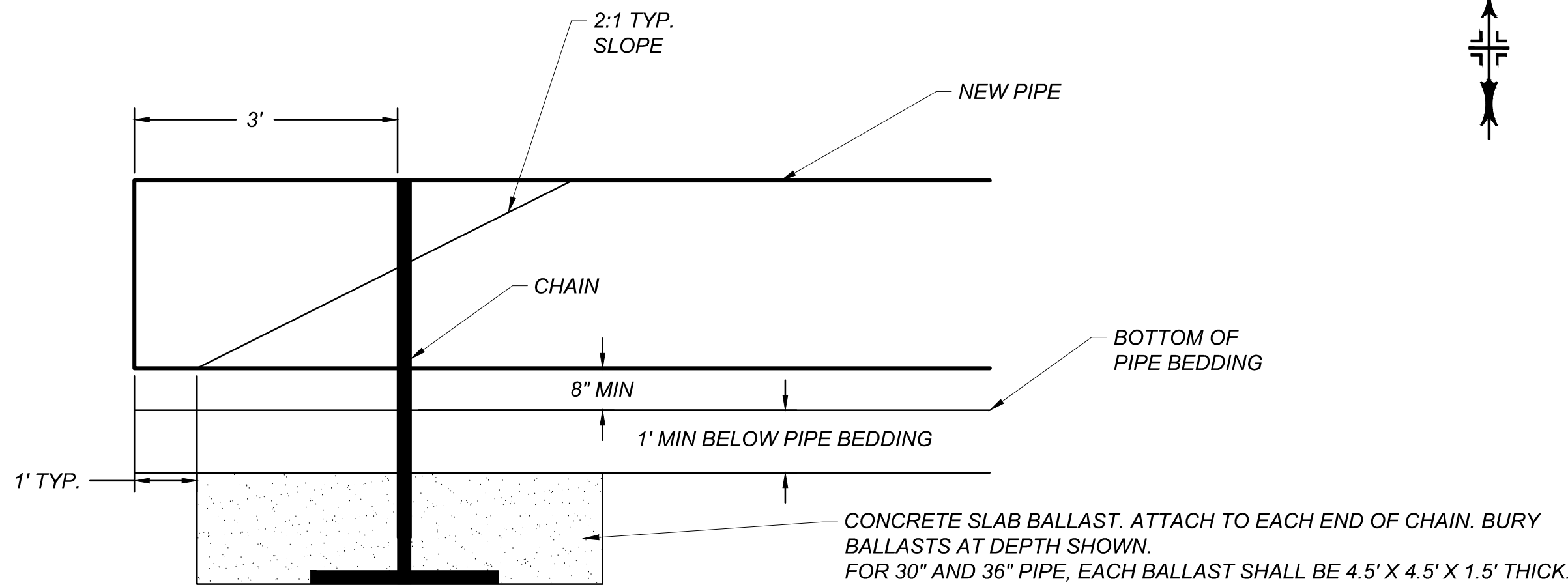
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
30"	54"
36"	64"

NOTES:

1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL SCARIFY AND RECOMPACT NATIVE SOILS TO AT LEAST 4" BELOW THE BEDDING, OR EXCAVATE TO A DEPTH REQUIRED BY THE OWNER'S REPRESENTATIVE AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE OWNER'S REPRESENTATIVE.
2. HAUNCH ZONE: COMPACT CRUSHED AGGREGATE BASE IN 8" LIFTS. MOISTURE CONDITION TO NEAR OPTIMUM AND COMPACT TO 95% RELATIVE COMPACTION UP TO THE SPRINGLINE OF THE PIPE.
3. GEOTEXTILE: INSTALL GEOTEXTILE WITH A MINIMUM GRAB STRENGTH OF 200 POUNDS (REED AND GRAHAM RG 200 OR EQUIVALENT). INSTALL GEOTEXTILE IN BASE AND SIDES OF TRENCH UP TO THE SPRINGLINE OF THE PIPE BETWEEN CRUSHED AGGREGATE BASE AND NATIVE SOILS.

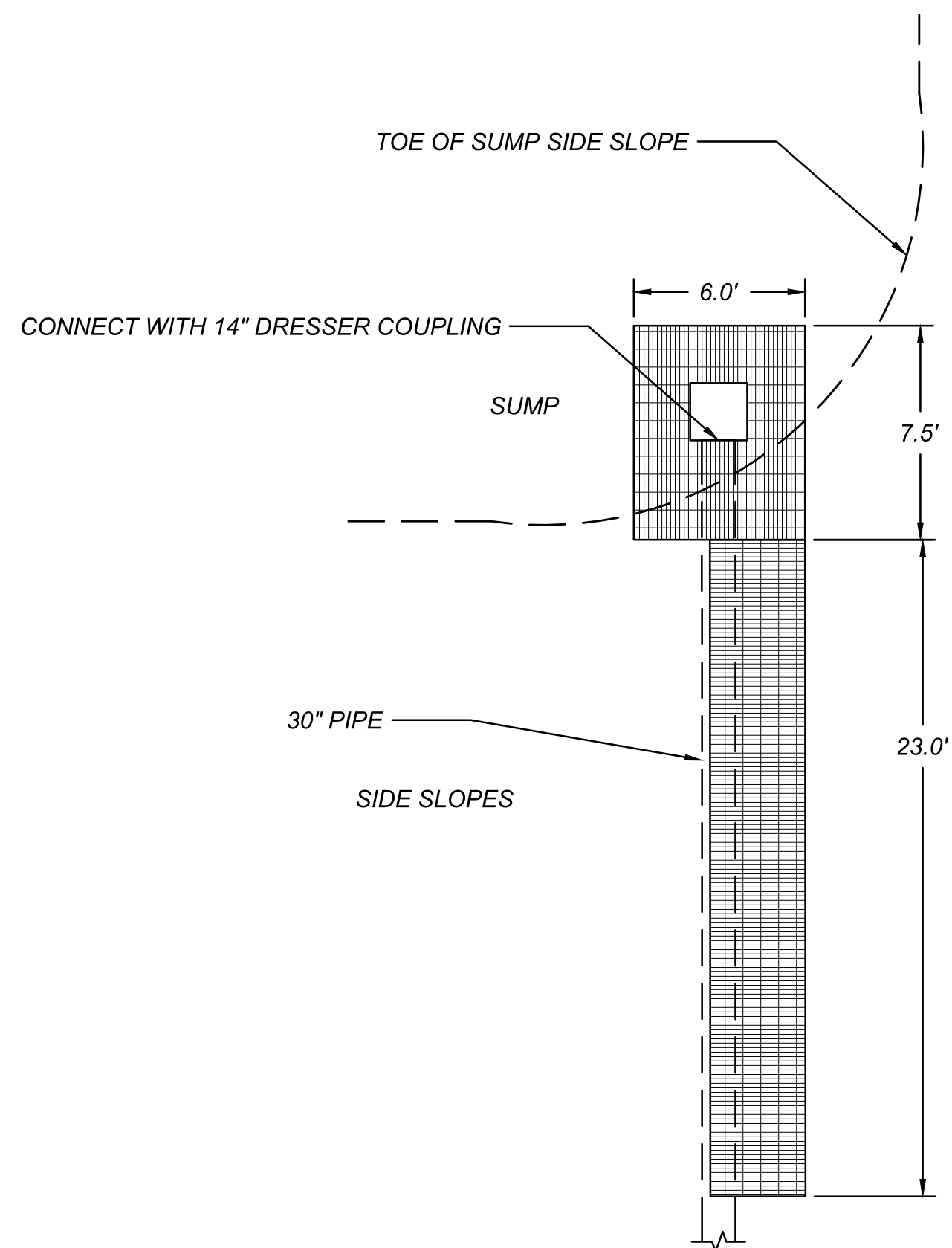
DETAIL 4 - TYPICAL HDPE CULVERT TRENCH
DETAIL



NOTES:

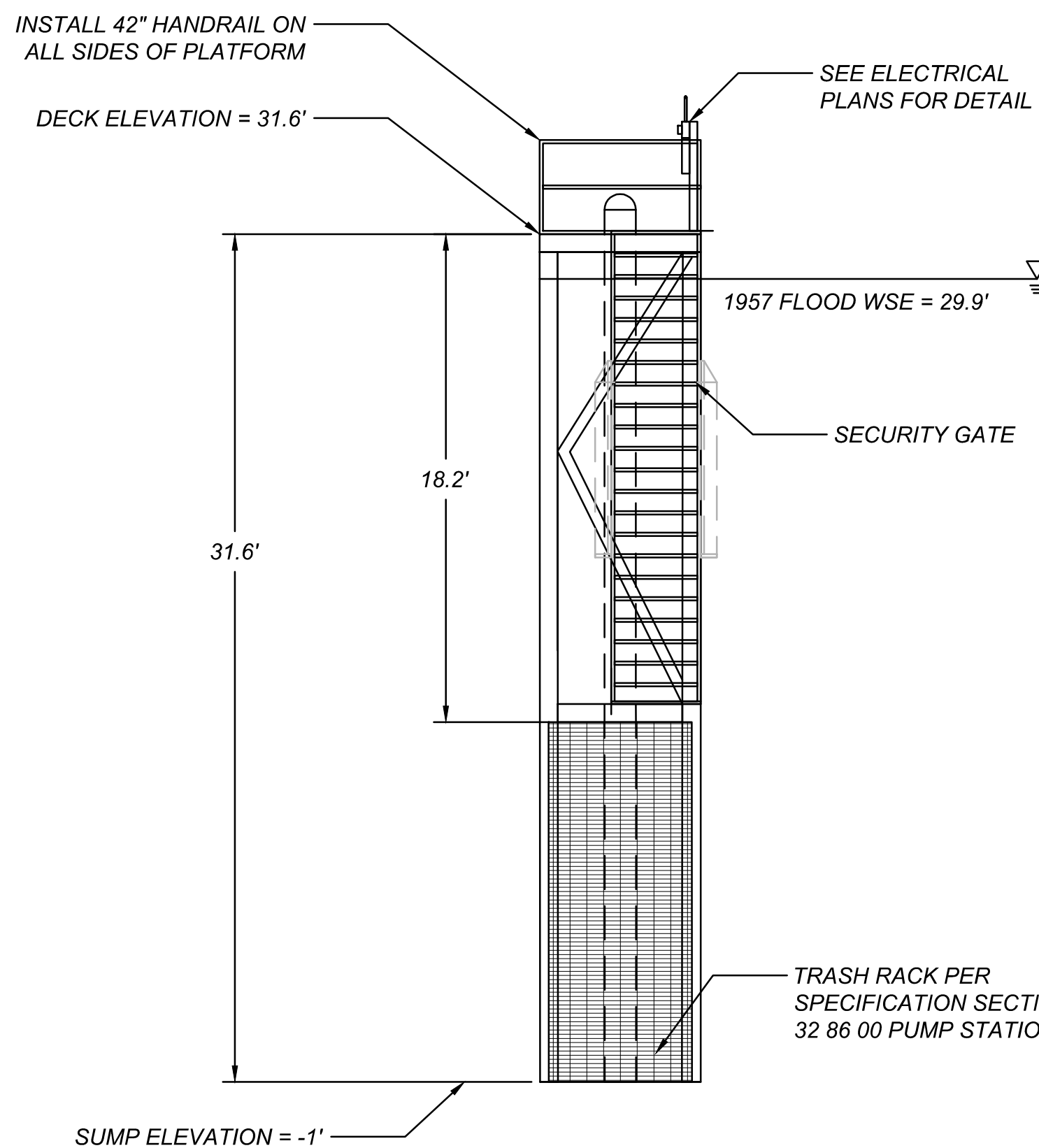
1. PIPE ANCHOR CHAIN SHALL BE 5/8" GRADE 80 ALLOY GALVANIZED CHAIN, MIN.
2. HANG CHAIN OVER PIPE END IN CORRUGATION VALLEY.
3. EMBED END OF CHAIN IN FULL THICKNESS OF CONCRETE. CURL 6" OF CHAIN IN A 2' DIAMETER CIRCLE AT BOTTOM OF EACH CONCRETE ANCHOR

DETAIL 5 - TYPICAL PIPE ANCHOR DETAIL

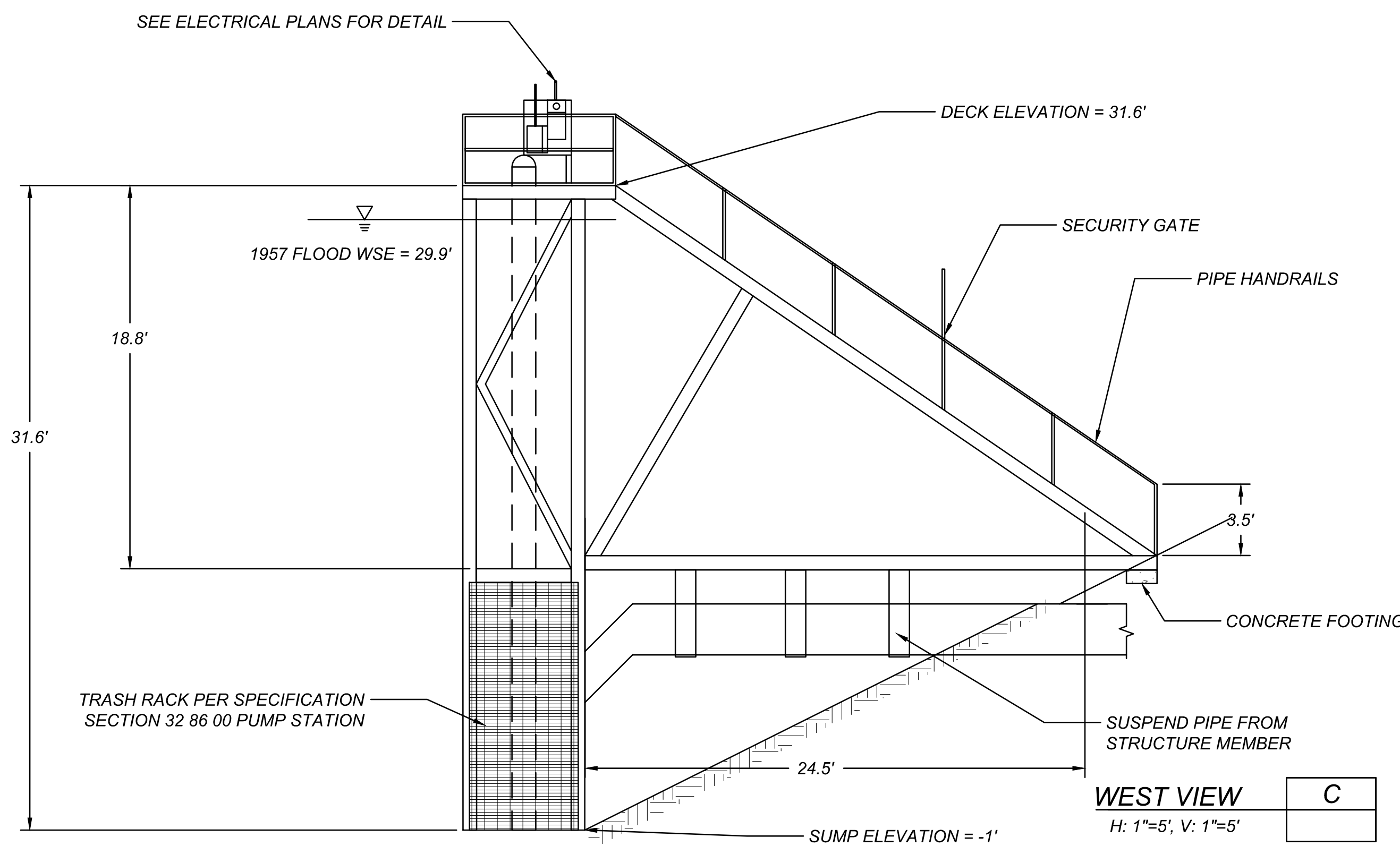


PLAN VIEW
H: 1"=5'

PREPARED BY:




SOUTH VIEW
H: 1"=5', V: 1"=5'

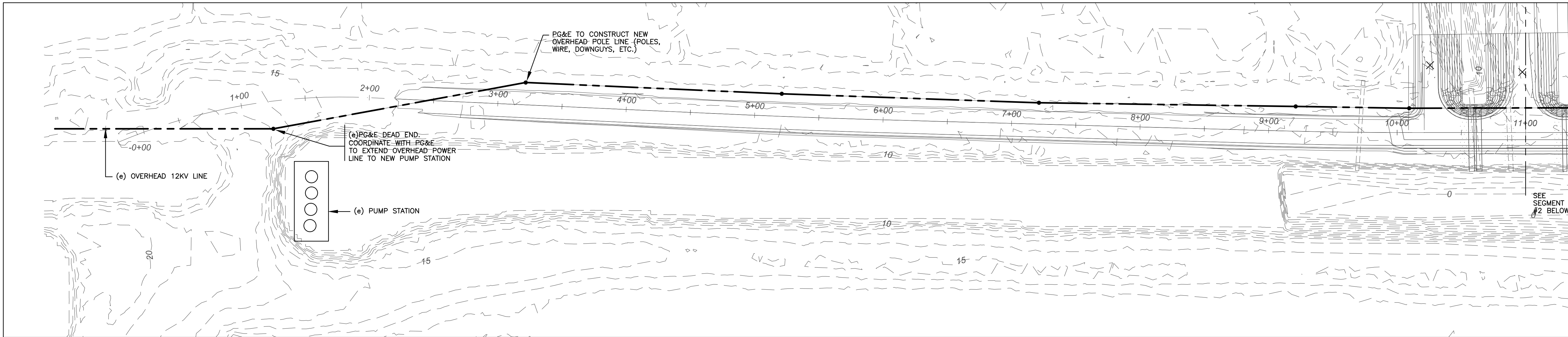


WEST VIEW
H: 1"=5', V: 1"=5'

DETAIL 6 - SUB-PROJECT 4 PUMP STATION

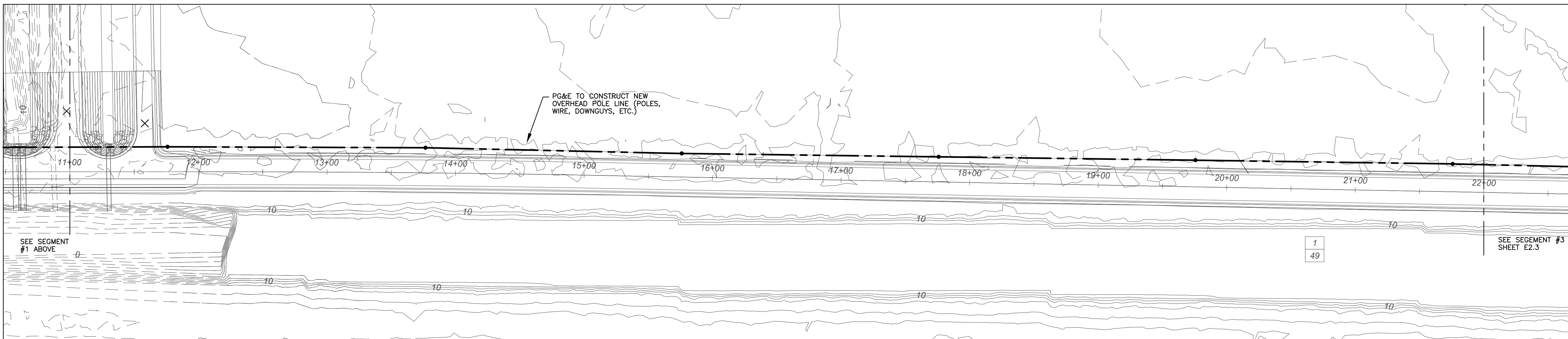
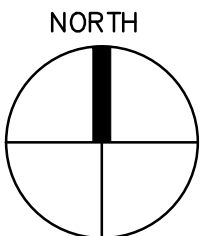
SCALE BARS	<div>PREPARED BY:</div> <div></div>	ISSUE DESCRIPTION		<div>DESIGNEDSD</div> <div>DRAWNJP</div> <div>CHECKEDCC</div>		<div>YOLO BYPASS WILDLIFE AREA</div> <div>HABITAT AND DRAINAGE IMPROVEMENTS</div> <div>TYPICAL DETAILS 2</div> <div>----</div>	SFCWA CONTRACT #
		100% DESIGN					CBEC PROJECT #
		----					15-1025
		----		SHEET			
----		ISSUE DATE APRIL 2017	FOR DRAWING APPROVALS SEE		25	DWG	REV
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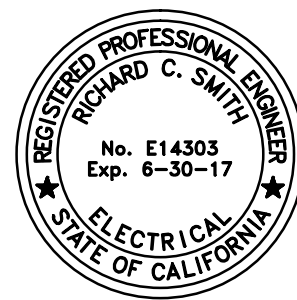
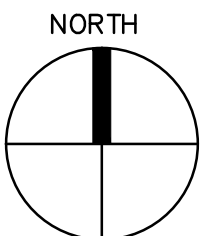
ELECTRICAL SITE PLAN (SEGMENT 1)

SCALE: 1"=400'-0"

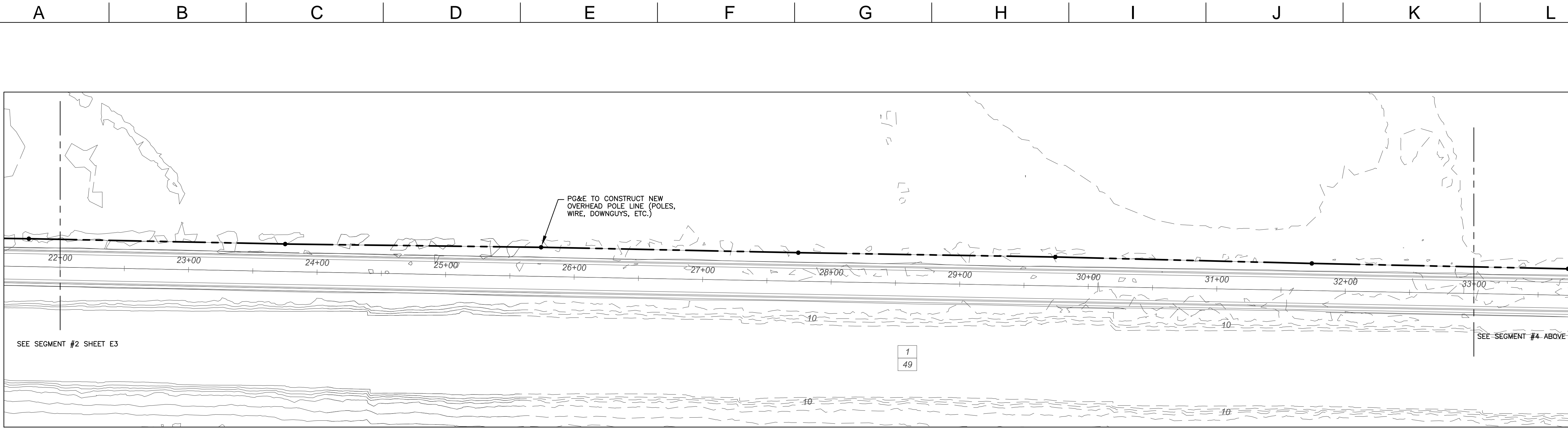


ELECTRICAL SITE PLAN (SEGMENT 2)

SCALE: 1"=400'-0"

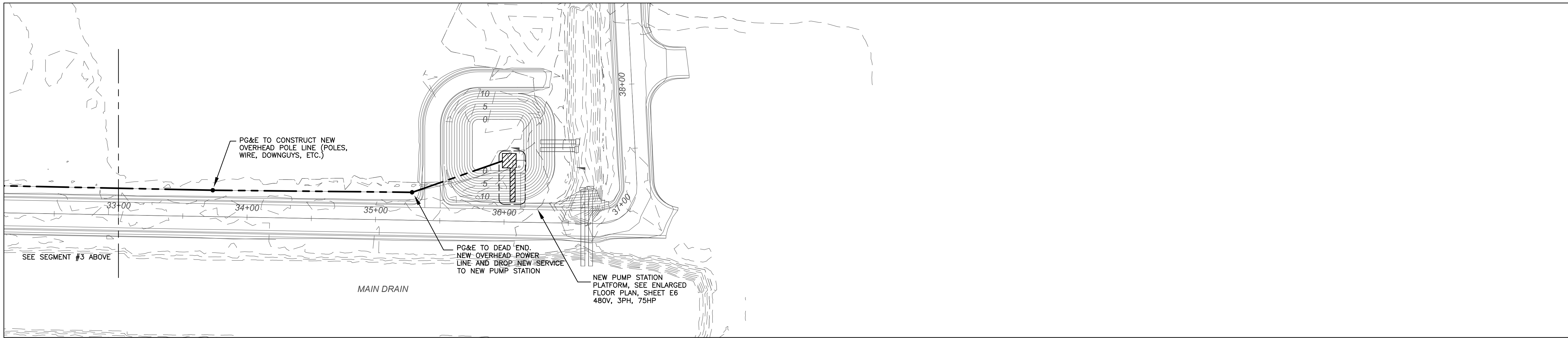
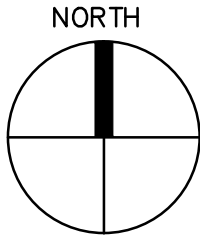


SCALE BARS		PREPARED BY:		HCS ENGINEERING, INC. CONSULTING ELECTRICAL ENGINEERS 4512 FEATHER RIVER DRIVE, SUITE F STOCKTON, CA 95219 (209)478-8270 E-MAIL ADDRESS — richard@hcs-eng.com PROJ. <u>2016.285</u> DES. <u>BA</u> ENG. <u>RCS</u>	ISSUE DESCRIPTION	PREPARED FOR:		YOLO BYPASS WILDLIFE AREA HABITAT AND DRAINAGE IMPROVEMENTS OVERHEAD POLE LINE CONSTRUCTION	SFCWA CONTRACT #
		100% SET					143939		
		----					CBEC PROJECT #		
		----					15-1025		
					DESIGNED	RCS	FOR DRAWING APPROVALS SEE	SHEET	E2.2
					DRAWN	GT		DWG	REV
					CHECKED	RCS	-----	0	
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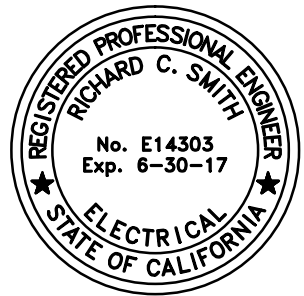
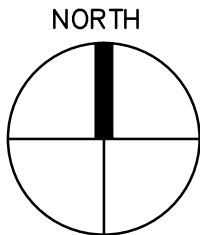
ELECTRICAL SITE PLAN (SEGMENT 3)

SCALE: 1"=400'-0"



ELECTRICAL SITE PLAN (SEGMENT 4)

SCALE: 1"=400'-0"



SCALE BARS



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PROJ. 2016.285 DES. BA ENG. RCS

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FOR DRAWING APPROVALS SEE

YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS
OVERHEAD POLE LINE CONSTRUCTION
ELECTRICAL SITE PLAN

SFCWA CONTRACT #
143939

CBEC PROJECT #
15-1025

SHEET
E2.3

DWG

REV
0

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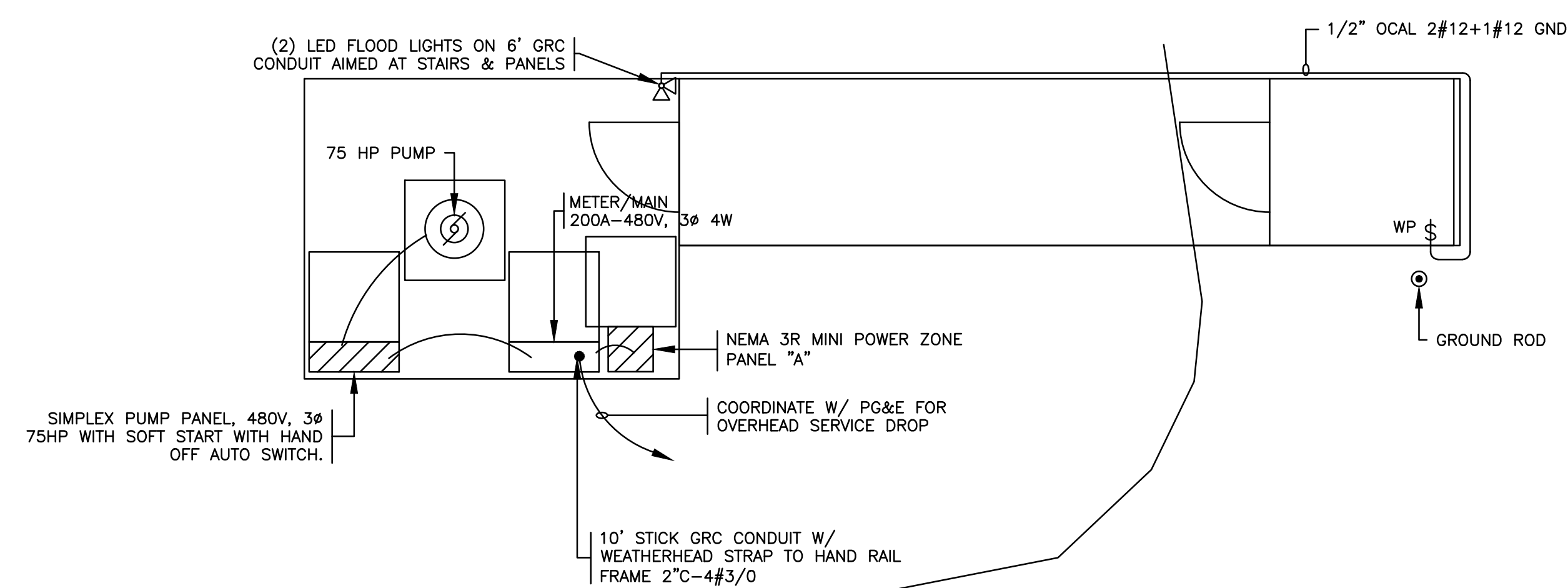
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UTILITY COORDINATION NOTE:

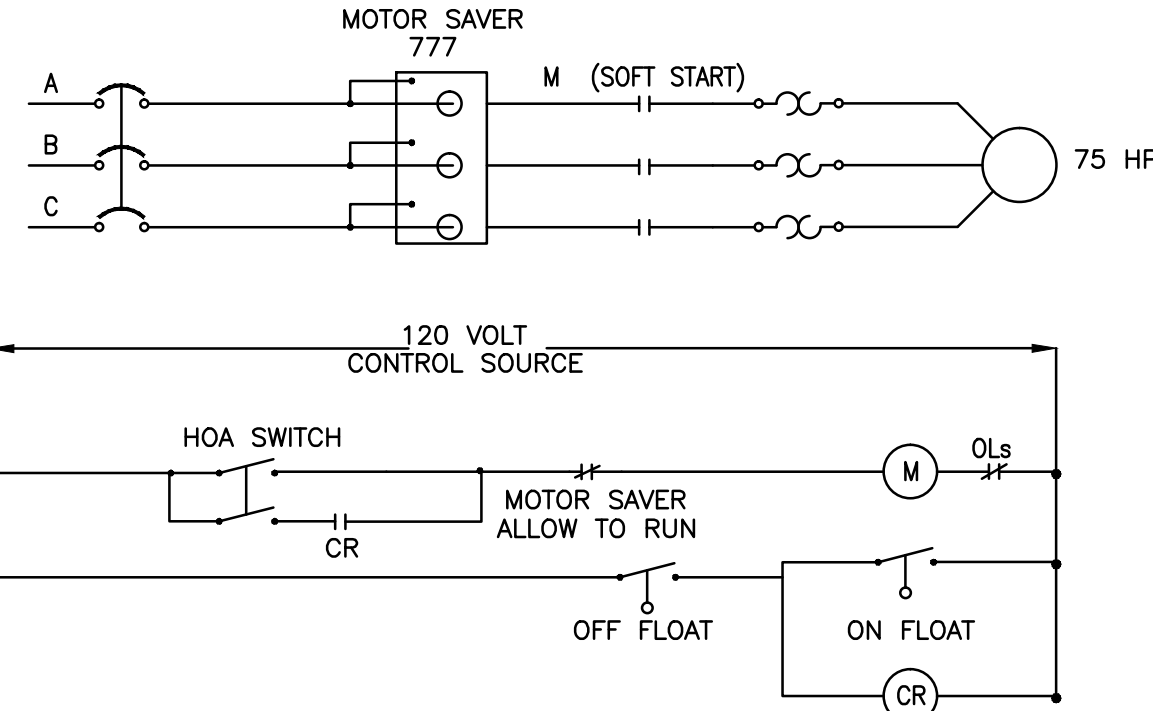
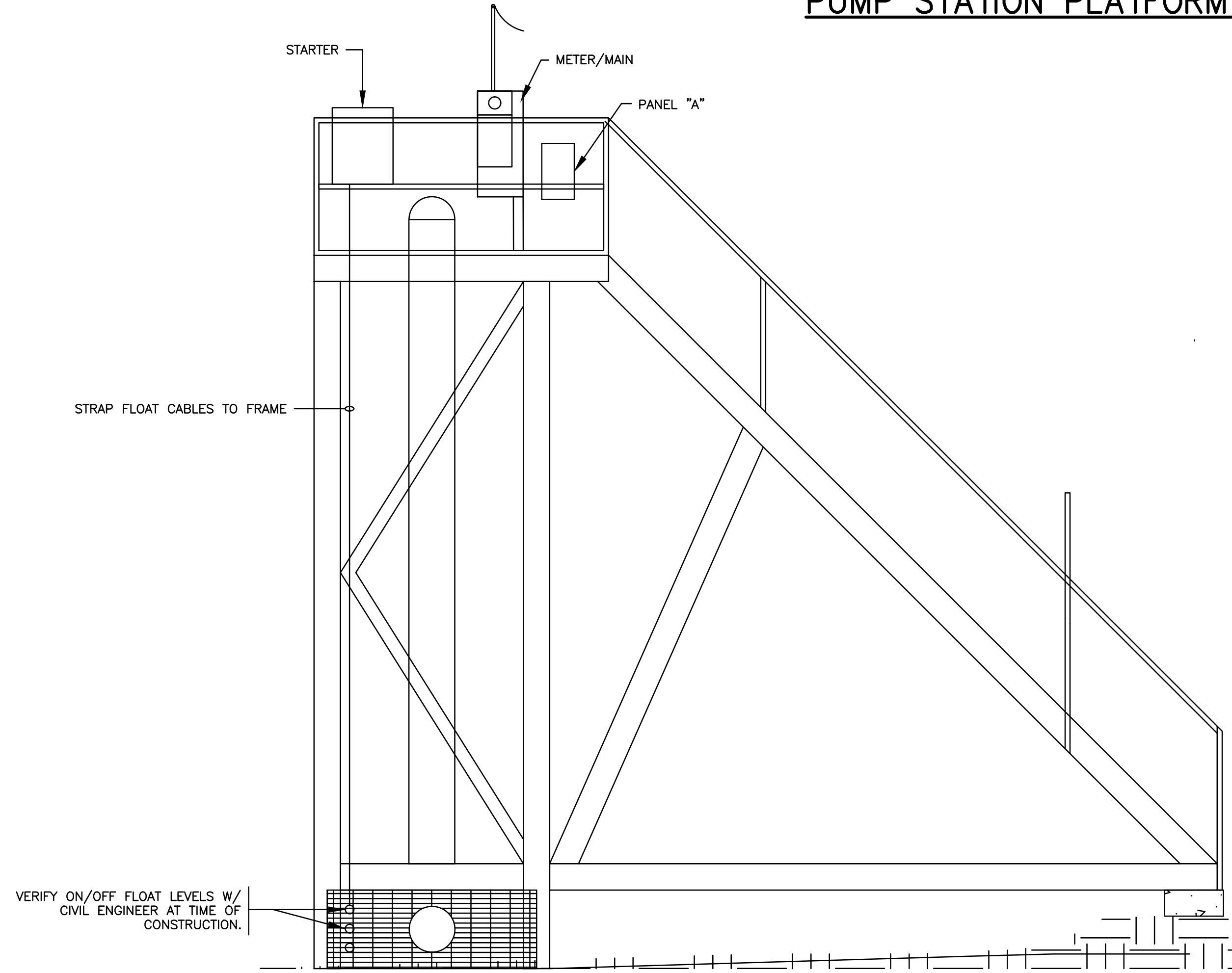
THE CONTRACTOR SHALL SUPPLY THE SERVICE PANEL, STARTERS, WIRING, ETC AS SHOWN HERE INCLUDING ALL LABOR, EQUIPMENT, NEW CONDUITS AND WIRE THAT COMPLY WITH BUILDING CODE, REQUIRED TO OPERATE THE PUMP. SERVICE PANEL SHALL BE PER SECTION 16342 AND CONSISTENT WITH SERVICE FOR TYPICAL AGRICULTURAL WATER PUMPING APPLICATIONS. APPURTENANCES SHALL INCLUDE AT A MINIMUM FLOAT SWITCH ASSEMBLY, STILLING TUBE, FLOAT BALL, RODS AND CONNECTORS NECESSARY FOR A COMPLETE OPERATING SYSTEM.

POWER DROP AND COORDINATION WITH PG&E WILL BE THE RESPONSIBILITY OF THE OWNER. SUPPLYING THE SERVICE PANEL AND POWER CONNECTION FROM THE PANEL TO THE MOTOR WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. A MOTOR SAVER SHALL BE INCORPORATED INTO THE ELECTRICAL SERVICE TO THE PUMP. OWNER IS RESPONSIBLE FOR ANY PERMITS, IF REQUIRED.



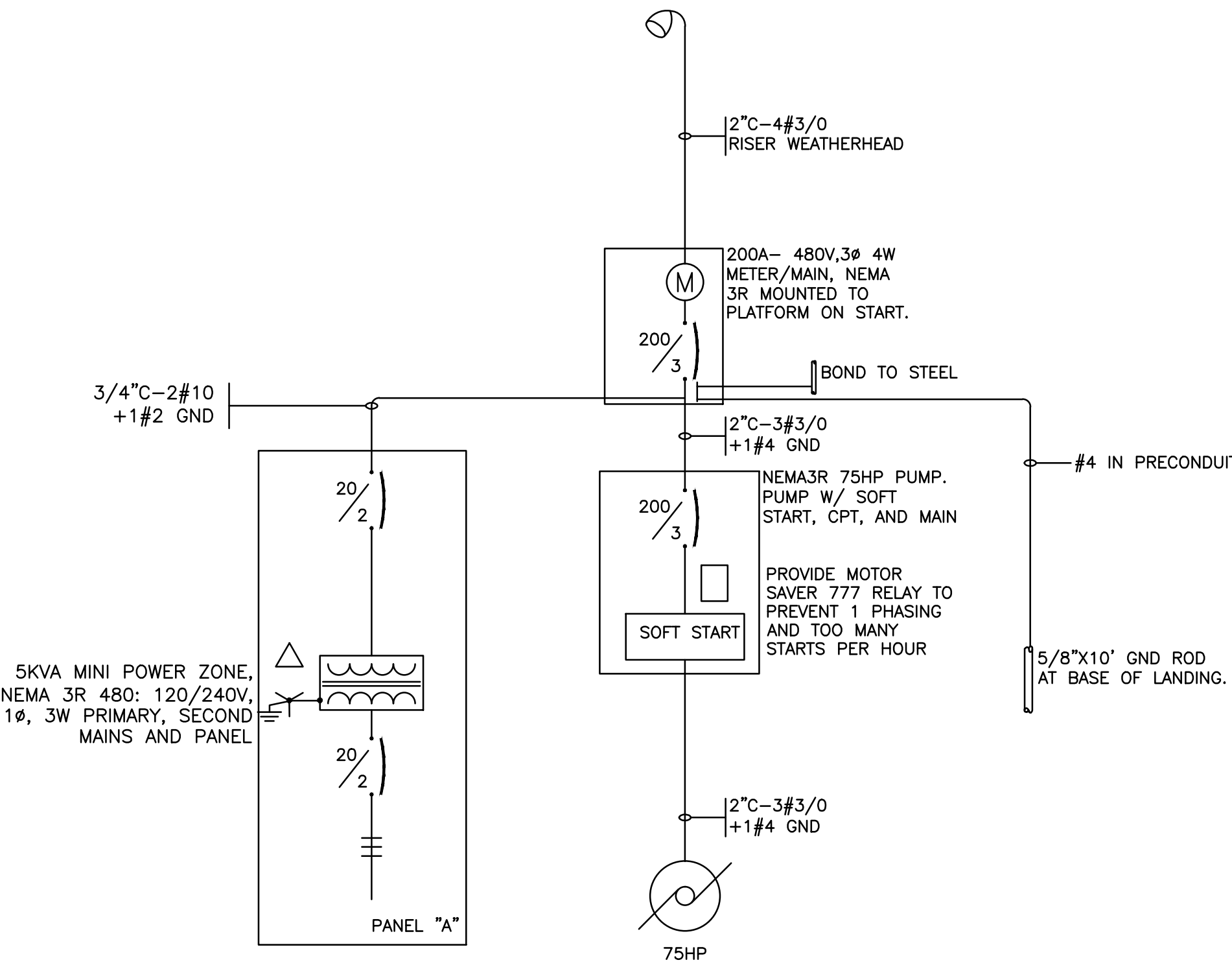
PUMP STATION PLATFORM ELECTRICAL PLAN

SCALE: 1/4"=1'-0"



CONTROL DIAGRAM

NTS



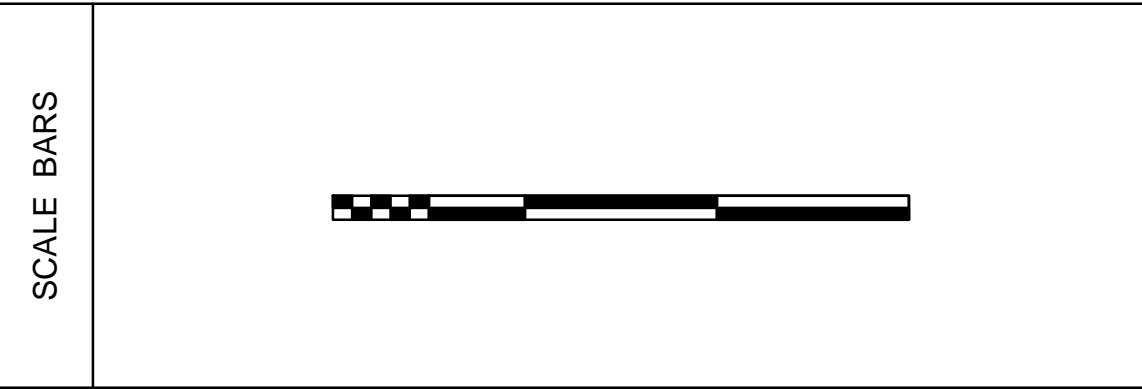
ONELINE DIAGRAM

SCALE: NTS

PANEL A							
TOTAL KVA : 0.3				CONNECT AMPS: 1.6A			
MOUNTING : NEMA 3R ON STRUT				VOLTAGE : 120/240V 1Ø 4W			
BUSSING : 20A2P MCB @480, 240				FEEDER : SEE ONE LINE DIAGRAM			
DESCRIPTION	LOAD	BRKR		BRKR	LOAD	DESCRIPTION	
LIGHTS	200	20/1	1	2	20/1	180	OUTLET
SPARE		20/1	3	4			
SPARE		20/1	5	6			
SPARE		20/1	7	8			
	200			VA	TOTAL	180	

PLATFORM ELECTRICAL SECTION

SCALE: 1"=20'-0"



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YOLO BYPASS WILDLIFE AREA
HABITAT AND DRAINAGE IMPROVEMENTS

NEW PUMP STATION DETAILS

SFCWA CONTRACT #
143939
CBEC PROJECT #
15-1025
SHEET
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DWG

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