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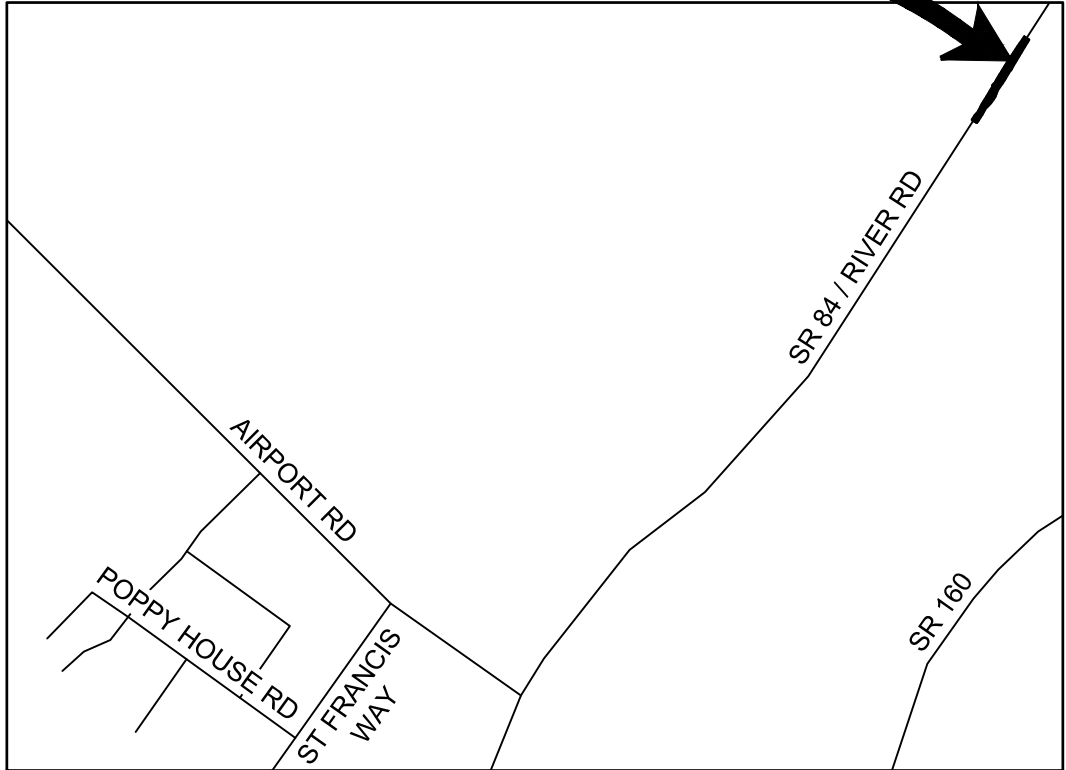
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

ON STATE ROUTE 84
SOLANO COUNTY, CA

TO BE SUPPLEMENTED BY CALIFORNIA
DEPARTMENT OF TRANSPORTATION
STANDARD PLANS AND SPECIFICATIONS
DATED 2023

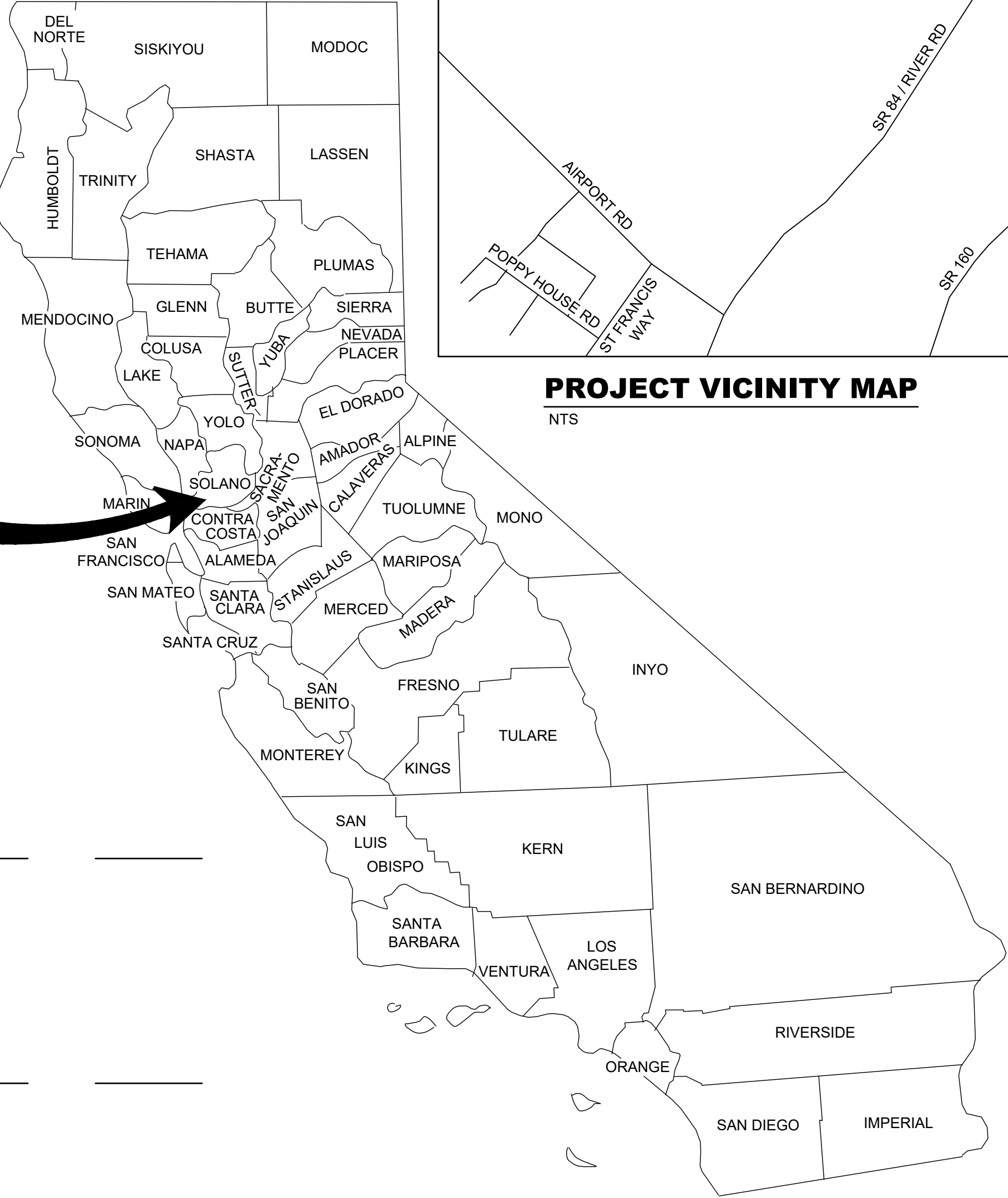
HORIZONTAL DATUM:
THE HORIZONTAL DATUM IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (NAD 83), ZONE 2 (0402) DERIVED FROM RTK GPS TIES TO PUBLISHED NGS SURVEY POINTS ISELTON RESET 1970 (P.I.D. JS1817), SHAG (P.I.D. AE9858), B 474 (P.I.D. JS2048), AND DROUIN RM 2 (P.I.D. JS1926), UPDATED TO EPOCH 2017.50 USING THE HTDP UTILITY TOOL FROM THE NGS GEODETIC TOOL KIT. COORDINATES AND DISTANCES ARE GRID VALUES, TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES BY THE PROJECT SPECIFIC SCALE FACTOR OF 1.00003224.

VERTICAL DATUM:
VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) DERIVED FROM RTK GPS TIES TO DROUIN RM 2 (P.I.D. JS1926) WITH A PUBLISHED ELEVATION OF 133.70 FEET.

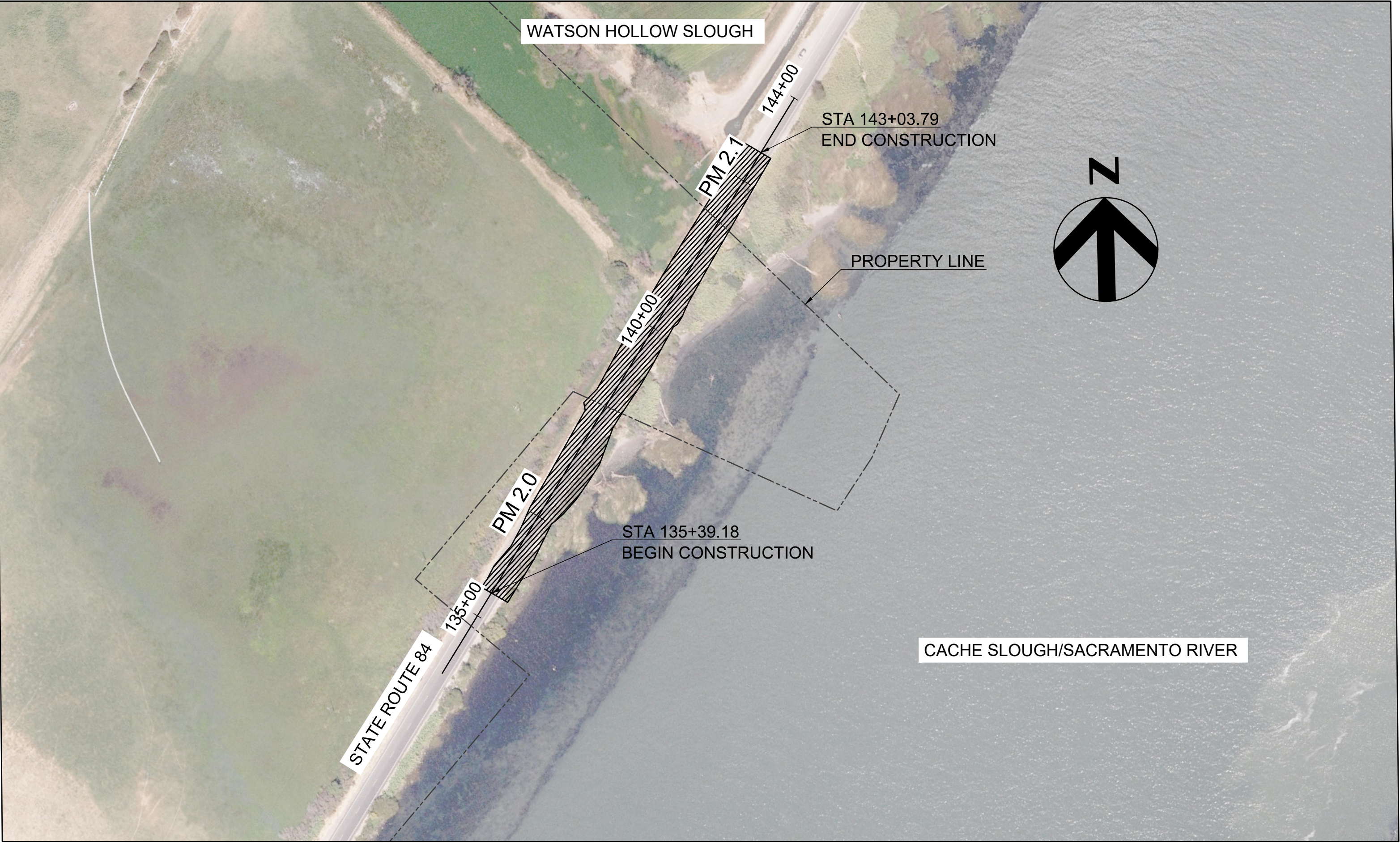


PROJECT VICINITY MAP
NTS

PROJECT VICINITY



CALIFORNIA STATE MAP
NTS



LOCATION MAP
NTS

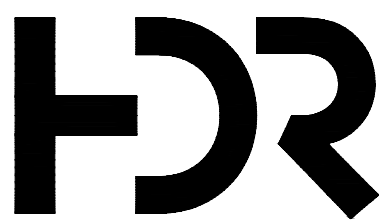
APPROVED:

NAME
TITLE

REVIEWED:

NAME
TITLE

65% NOT FOR CONSTRUCTION



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	D. JABBOUR
DESIGNED BY	T. CRANE
DRAWN BY	T. CRANE
CHECKED BY	H. QUAN
TECHNICAL LEAD	G. ARMSTRONG
DATE	MAY 29, 2024
PROJECT NUMBER	10364495



CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

TITLE SHEET AND LOCATION MAP



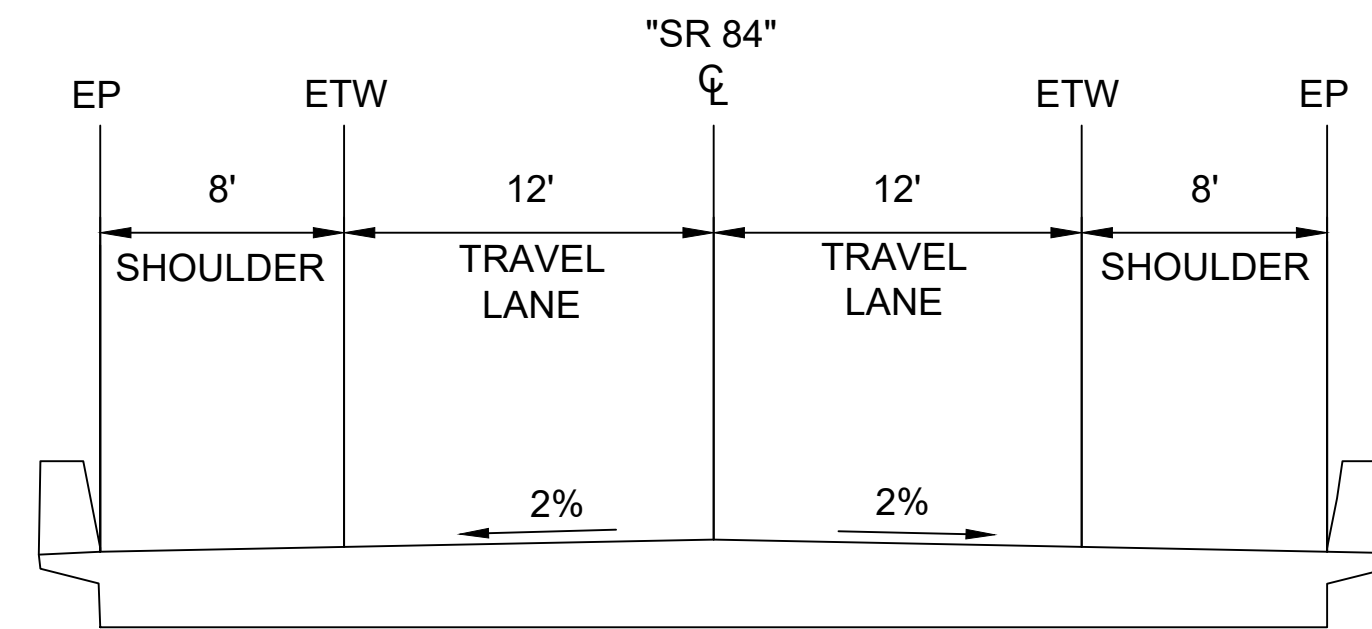
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SCALE | AS NOTED

SHEET

T-1

HDR_WR.cdb
C:\PWORKING\wes01\10364495ab001.dwg - 4/5/2024 2:37:18 PM

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS
2. EXACT LOCATIONS AND TYPES OF GUARD RAILING ARE SHOWN ON THE LAYOUT SHEET
3. REFER TO BRIDGE GENERAL PLAN FOR EXACT BRIDGE SECTION DETAILS AND PAVEMENT STRUCTURE SECTIONS

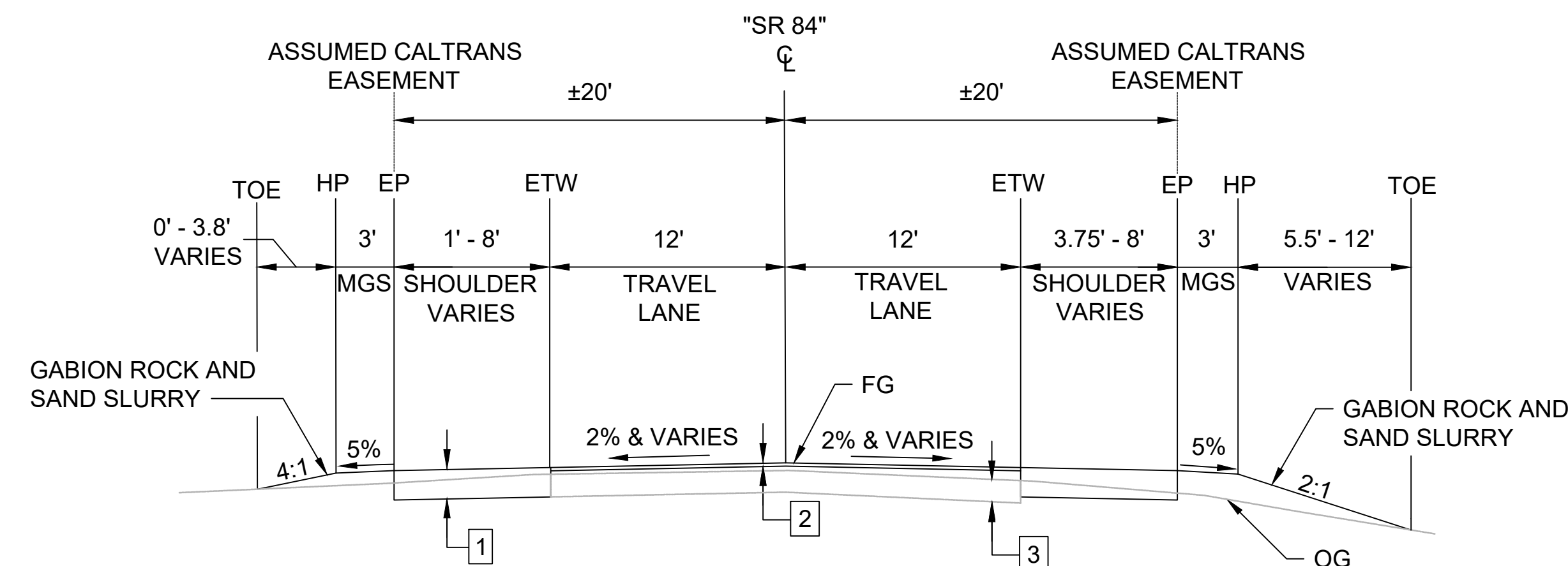


STA 138+92.28 TO STA 139+53.28
NOT TO SCALE

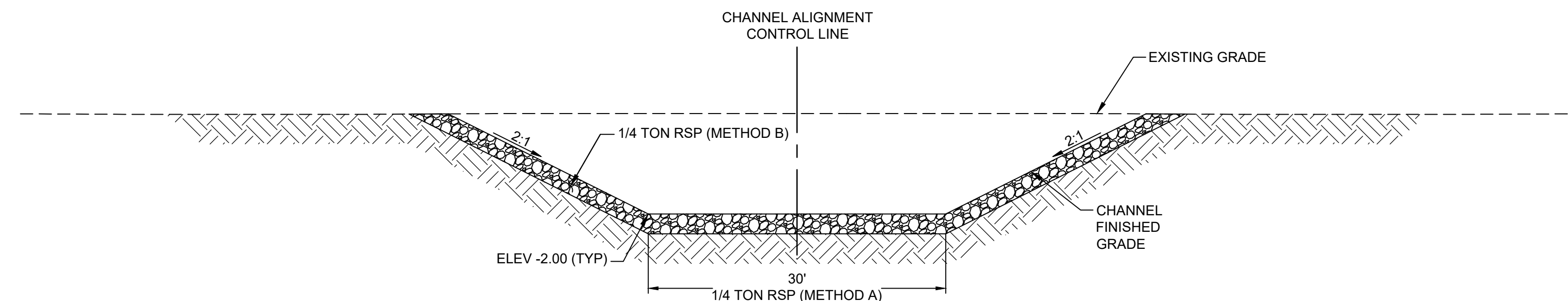
ADT (2013)	D	
ADT (2033)	T	
DHV	V	55
ESAL	TI	8 (ASSUMED)
	R	5 (ASSUMED)

TYPICAL PAVEMENT STRUCTURE SECTION

- 1 6" HMA TYPE A
16" AB (CLASS 2)
- 2 2" COLD PLANE
2" MIN. HMA TYPE 2 OVERLAY
- 3 EXISTING STRUCTURAL SECTION
ASSUMED 6" HMA / 16" AB



STA 135+39.18 TO STA 138+92.28
STA 139+53.28 TO STA 143+03.79
NOT TO SCALE



STA 0+96.49 TO STA 03+43.08
NOT TO SCALE

65% NOT FOR CONSTRUCTION



			PROJECT MANAGER	D. JABBOUR
			DESIGNED BY	T. CRANE
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			TECHNICAL LEAD	G. ARMSTRONG
			DATE	APRIL 5, 2024
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10364495



TYPICAL SECTIONS



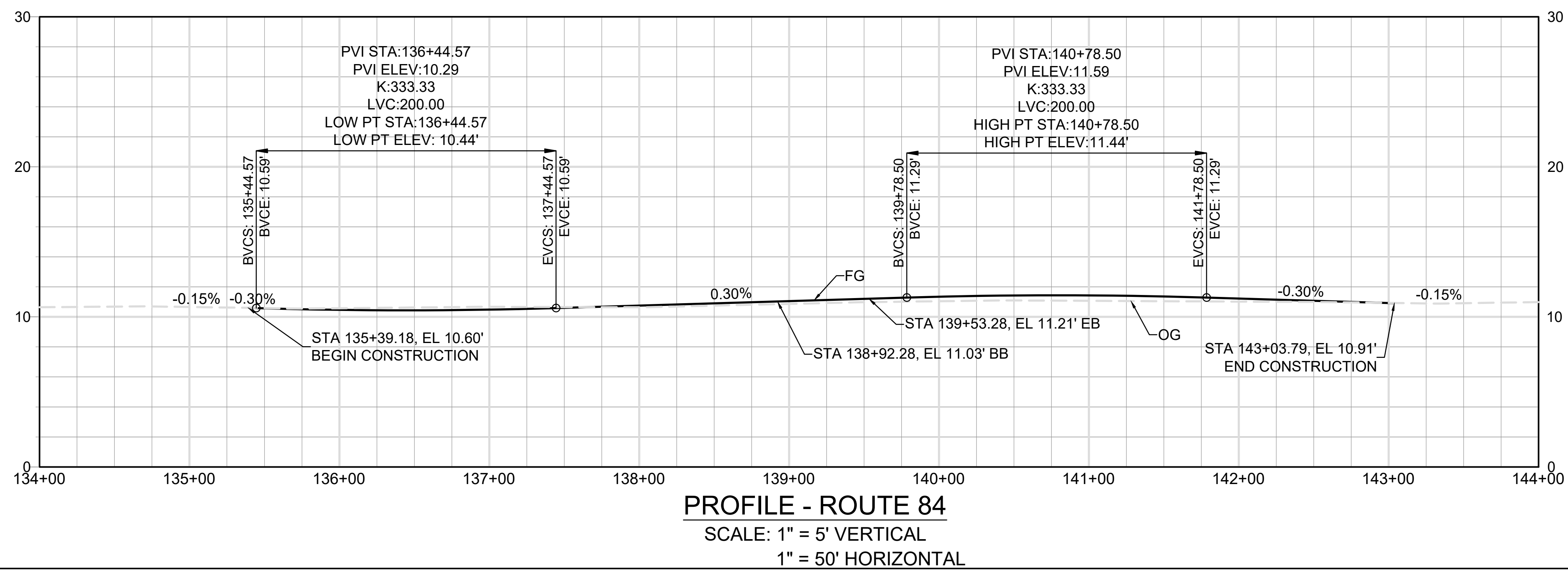
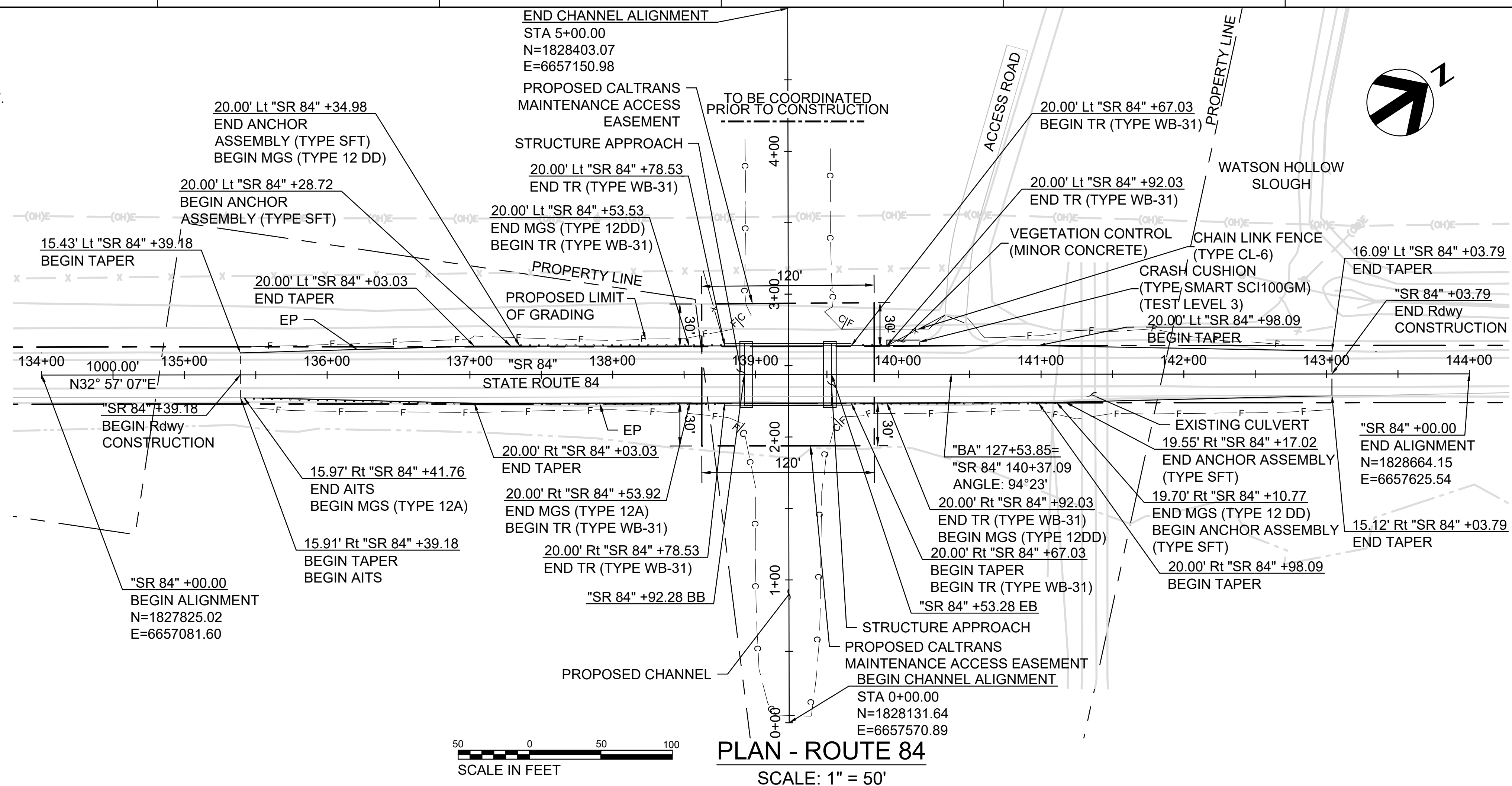
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SHEET

X-1

HDR-MStandard.ctb
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- NOTES:**
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. EXISTING TREES/BRUSH NOT SHOWN ON LAYOUT SHEET.



DESIGN SPEED: 55 MPH
POSTED SPEED: 45 MPH

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PROJECT MANAGER		D. JABBOUR
DESIGNED BY	T. CRANE	
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TECHNICAL LEAD	G. ARMSTRONG	
DATE	MAY 29, 2024	
PROJECT NUMBER	10364495	



CACHE SLOUGH MITIGATION BANK WATER CROSSING STRUCTURE

LAYOUT AND PROFILE

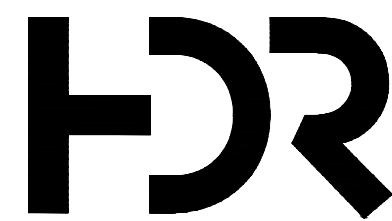
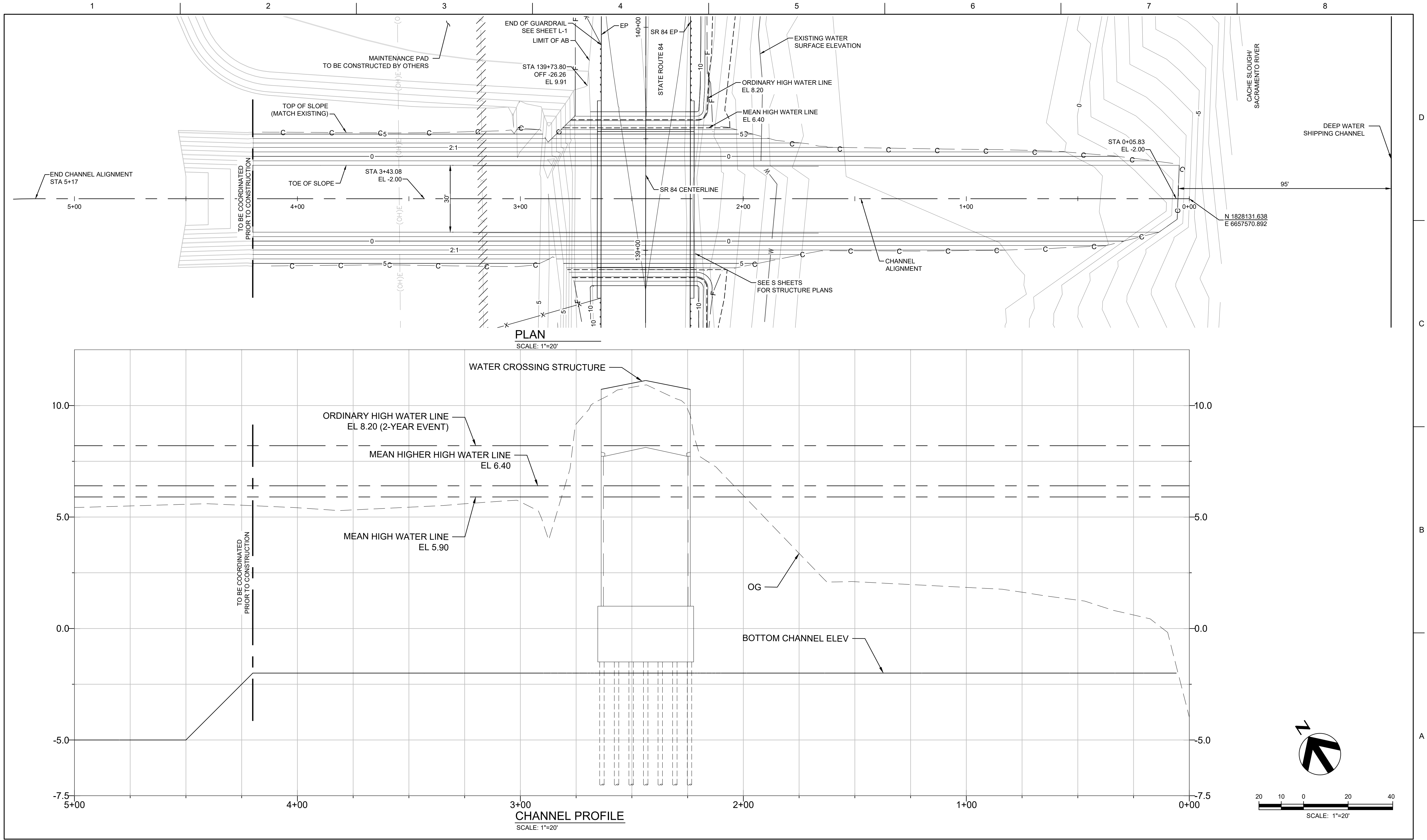


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SHEET

-1

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ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	D. JABBOUR
DESIGNED BY	T. CRANE
DRAWN BY	T. CRANE
CHECKED BY	H. QUAN
TECHNICAL LEAD	G. ARMSTRONG
DATE	MAY 29, 2024
PROJECT NUMBER	10364495



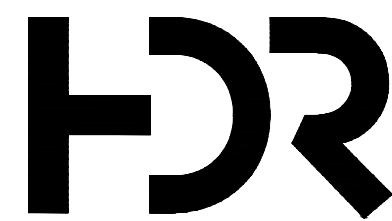
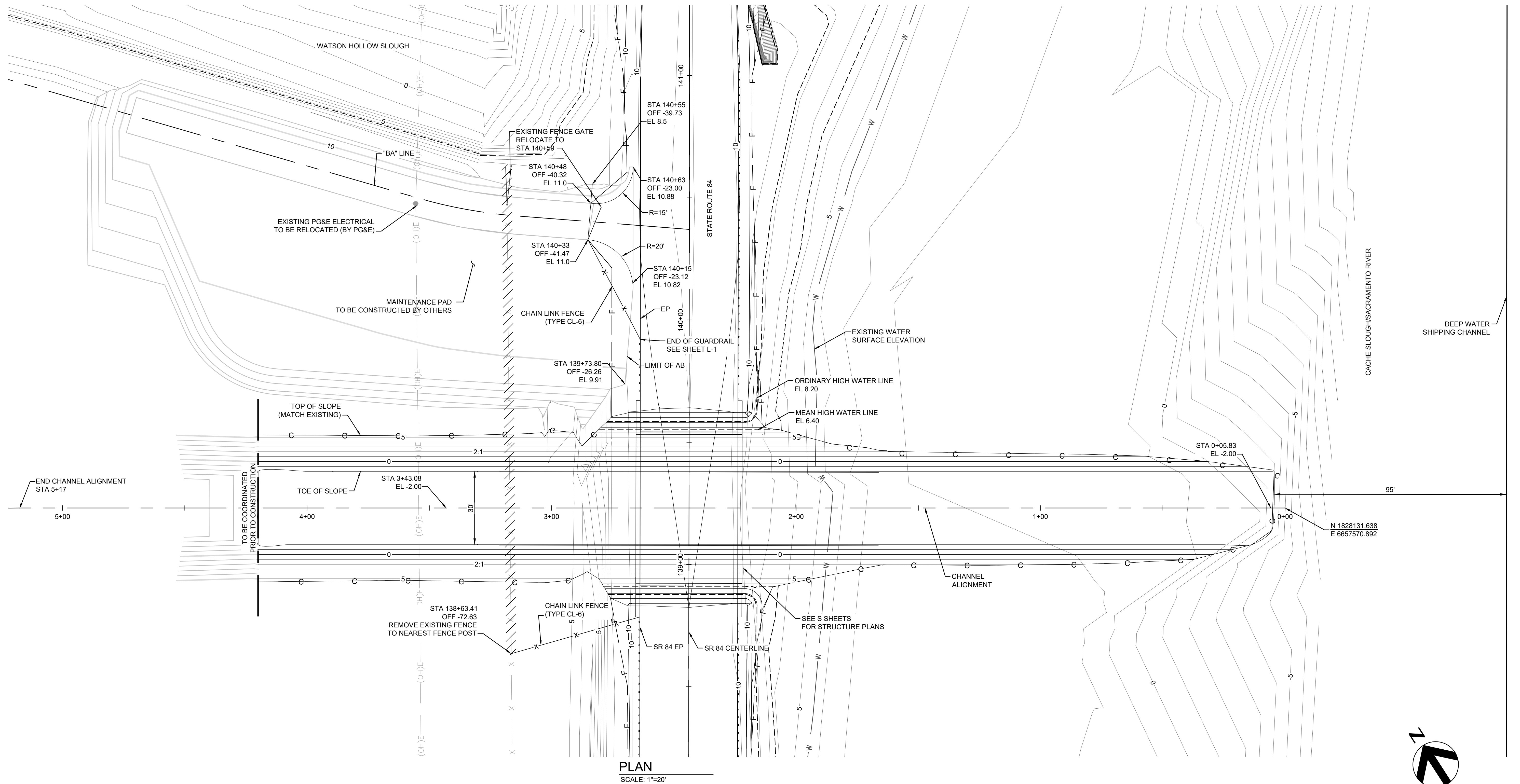
CACHE SLOUGH MITIGATION BANK WATER CROSSING STRUCTURE LAYOUT AND PROFILE



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SCALE AS SHOWN

SHEET
L-2

HDR_WR.cab
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ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	D. JABBOUR
DESIGNED BY	D. TEAK
DRAWN BY	A. JACKSON
CHECKED BY	B. KRCELIC
TECHNICAL LEAD	D. TEAK
DATE	FEBRUARY 5, 2024
PROJECT NUMBER	10364495



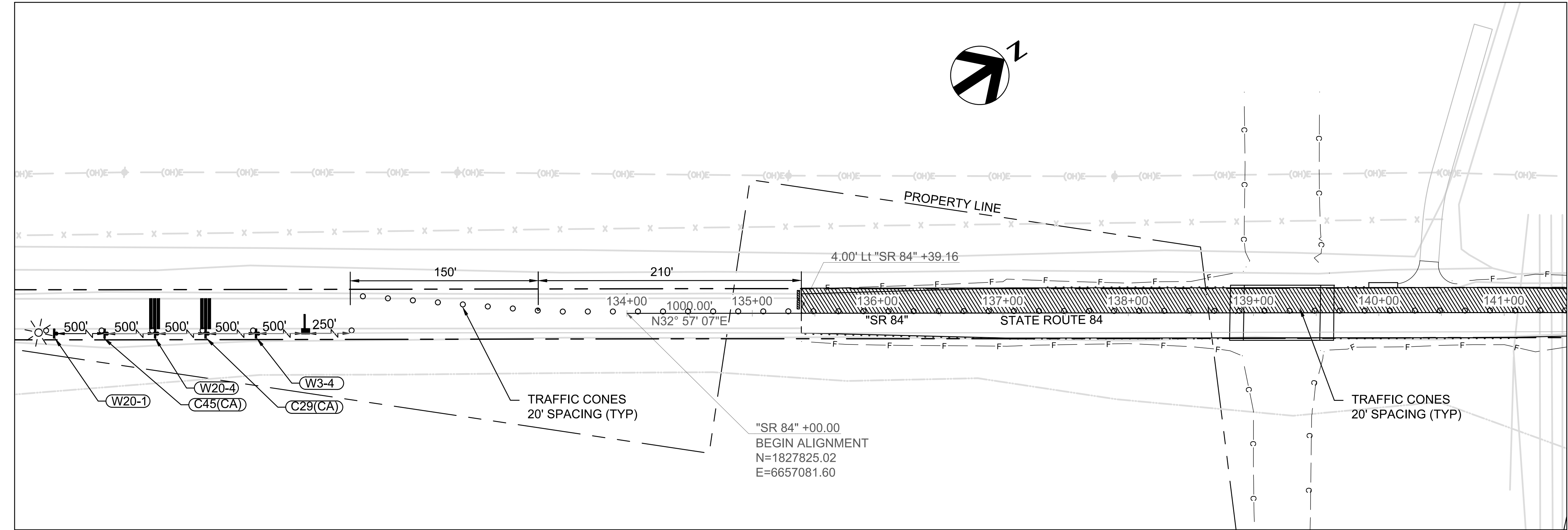
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE
GRADING AND FENCE PLAN



FILENAME 10364495ha001.dwg
SCALE AS SHOWN

SHEET
G-1

HDR_WR.cdb
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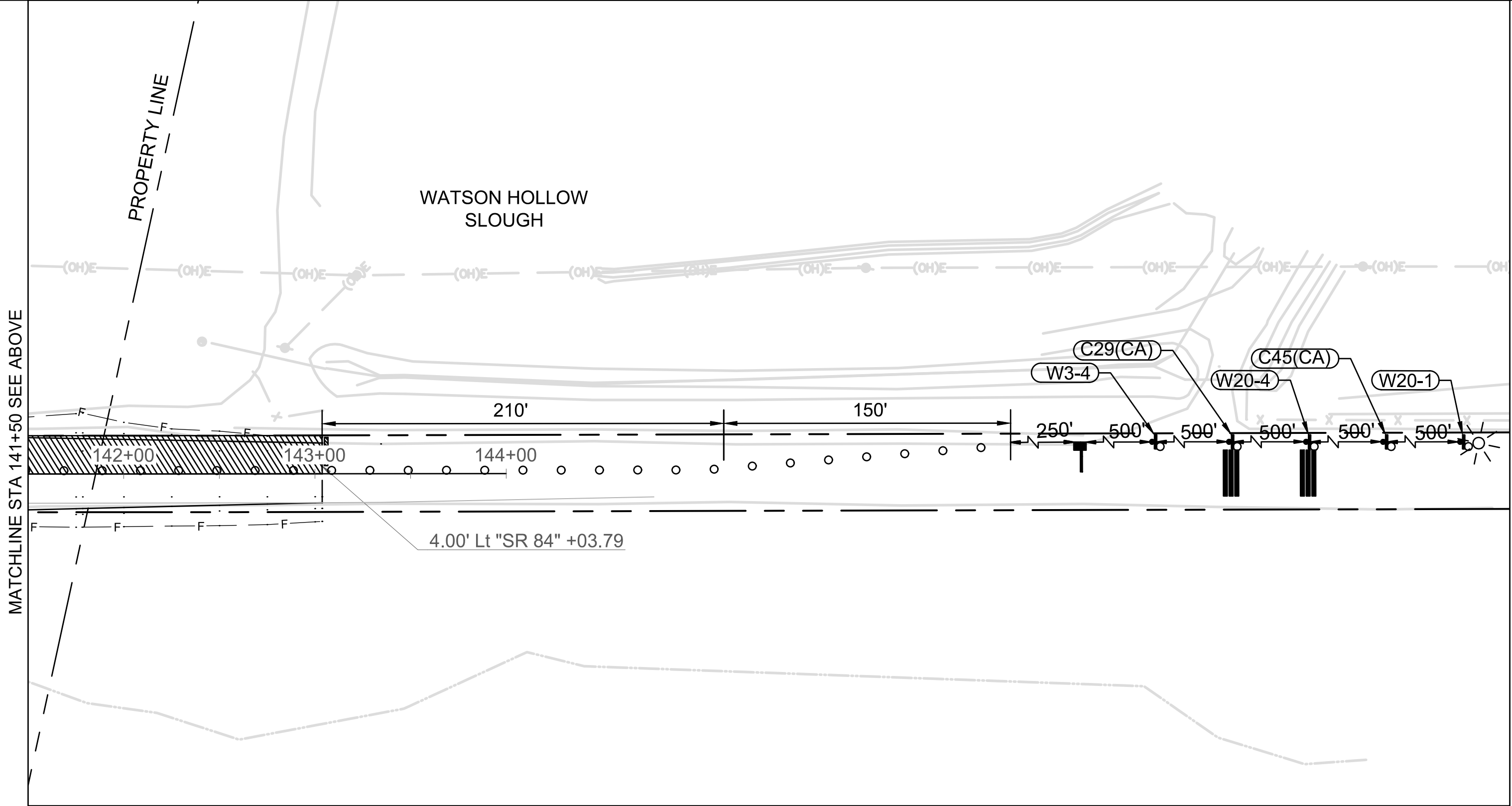


- NOTES:
- APPROXIMATE 40' EASEMENT IS CENTERED ABOUT THE EXISTING ROAD CENTERLINE.
 - EXISTING TREES/BRUSH NOT SHOWN ON LAYOUT SHEET.

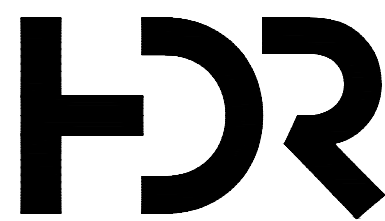
- STAGE 1:
- ONE-WAY REVERSIBLE TRAFFIC CONTROL, WARNING SIGNS, RUMBLE STRIPS, AND FLAGGERS TO BE PLACED PER CALTRANS STD PLANS T9 AND T13.
 - SAWCUT, CONDUCT ROADWAY EXCAVATION AND REMOVE BASE AND SURFACING.
 - CONSTRUCT ROADWAY-RELATED WORK ON NORTH SIDE OF SR 84.

- LEGEND:
- WORK ZONE
 - TRAFFIC CONE
 - TYPE III BARRICADE
 - WARNING SIGN
 - WARNING SIGN No.
 - PORTABLE TRANSVERSE RUMBLE STRIP ARRAY
 - AUTOMATED FLAGGER ASSISTANCE DEVICE
 - PORTABLE FLASHING BEACON

PLAN - ROUTE 84
SCALE: 1" = 50'



65% NOT FOR CONSTRUCTION



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CHECKED BY	H. QUAN
TECHNICAL LEAD	G. ARMSTRONG
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PROJECT NUMBER	10364495



CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

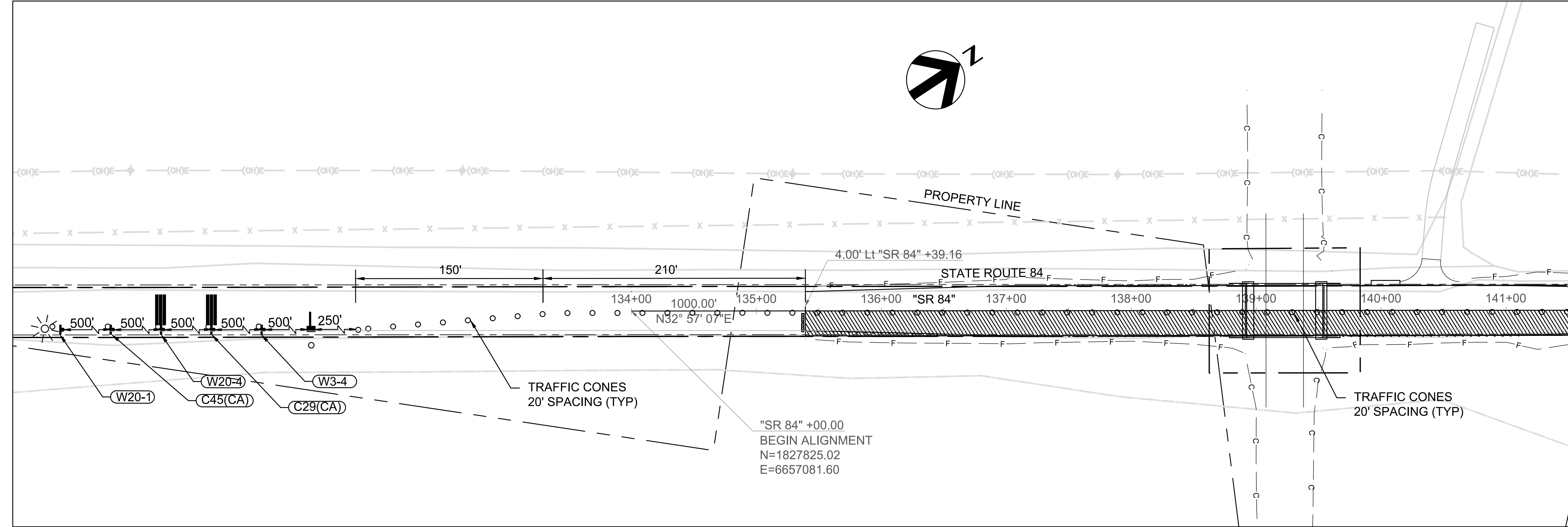
STAGE CONSTRUCTION
STAGE 1



FILENAME 10364495ma001.dwg
SCALE AS NOTED

SHEET
SC-1

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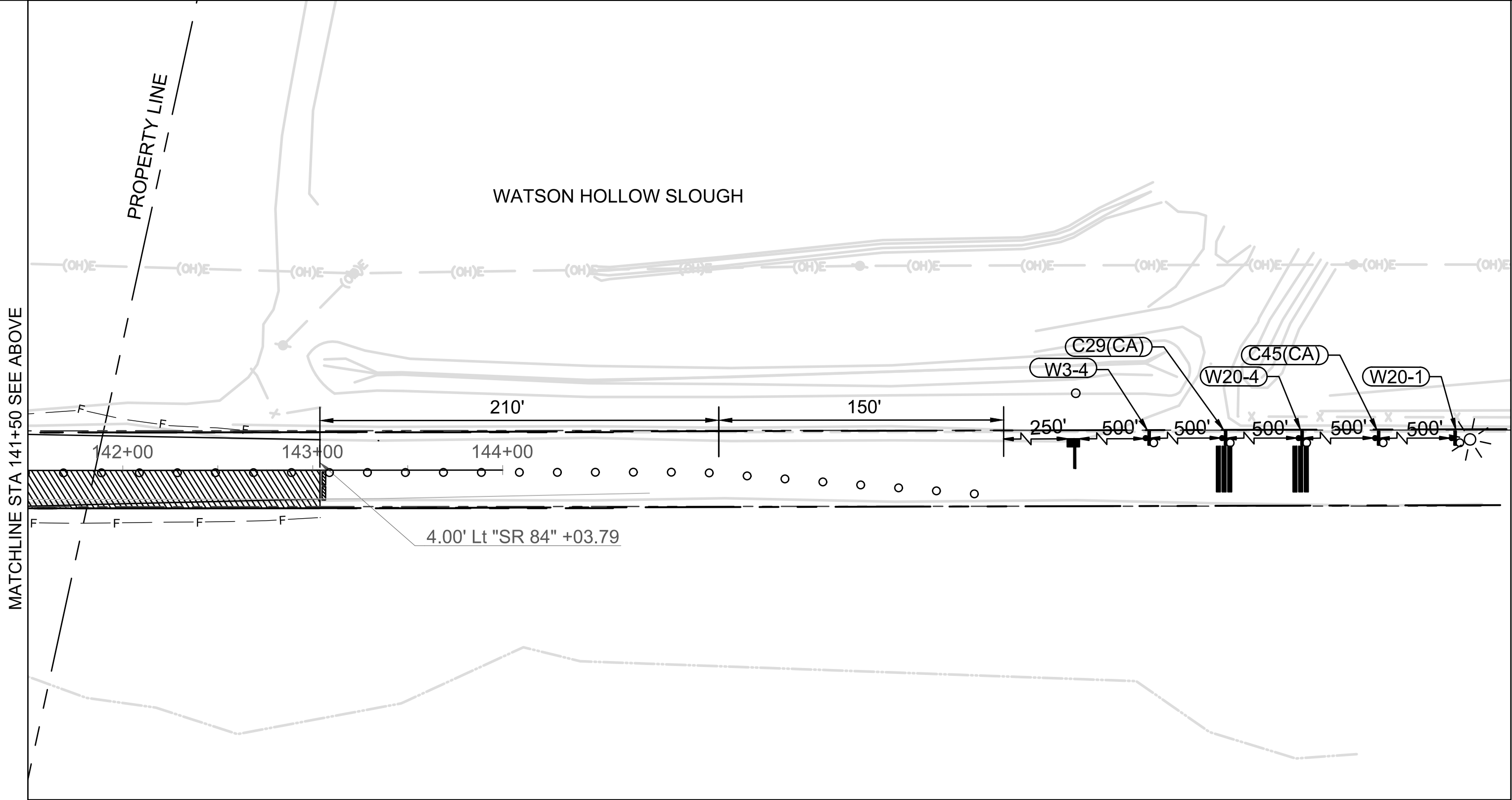


- NOTES:
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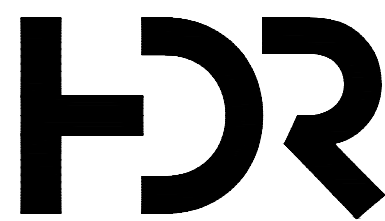
- STAGE 1:
- ONE-WAY REVERSIBLE TRAFFIC CONTROL, WARNING SIGNS, RUMBLE STRIPS, AND FLAGGERS TO BE PLACED PER CALTRANS STD PLANS T9 AND T13.
 - SAWCUT, CONDUCT ROADWAY EXCAVATION AND REMOVE BASE AND SURFACING.
 - CONSTRUCT ROADWAY-RELATED WORK ON NORTH SIDE OF SR 84.
 - DURING NIGHTTIME, TEMPORARY TRAFFIC CONTROL SIGNALS SHALL BE USED.

- LEGEND:
- WORK ZONE
 - TRAFFIC CONE
 - TYPE III BARRICADE
 - WARNING SIGN
 - WARNING SIGN No.
 - PORTABLE TRANSVERSE RUMBLE STRIP ARRAY
 - AUTOMATED FLAGGER ASSISTANCE DEVICE
 - PORTABLE FLASHING BEACON

PLAN - ROUTE 84
SCALE: 1" = 50'



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CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

STAGE CONSTRUCTION
STAGE 2



FILENAME 10364495ma002.dwg
SCALE AS NOTED

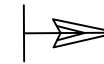
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SC-2

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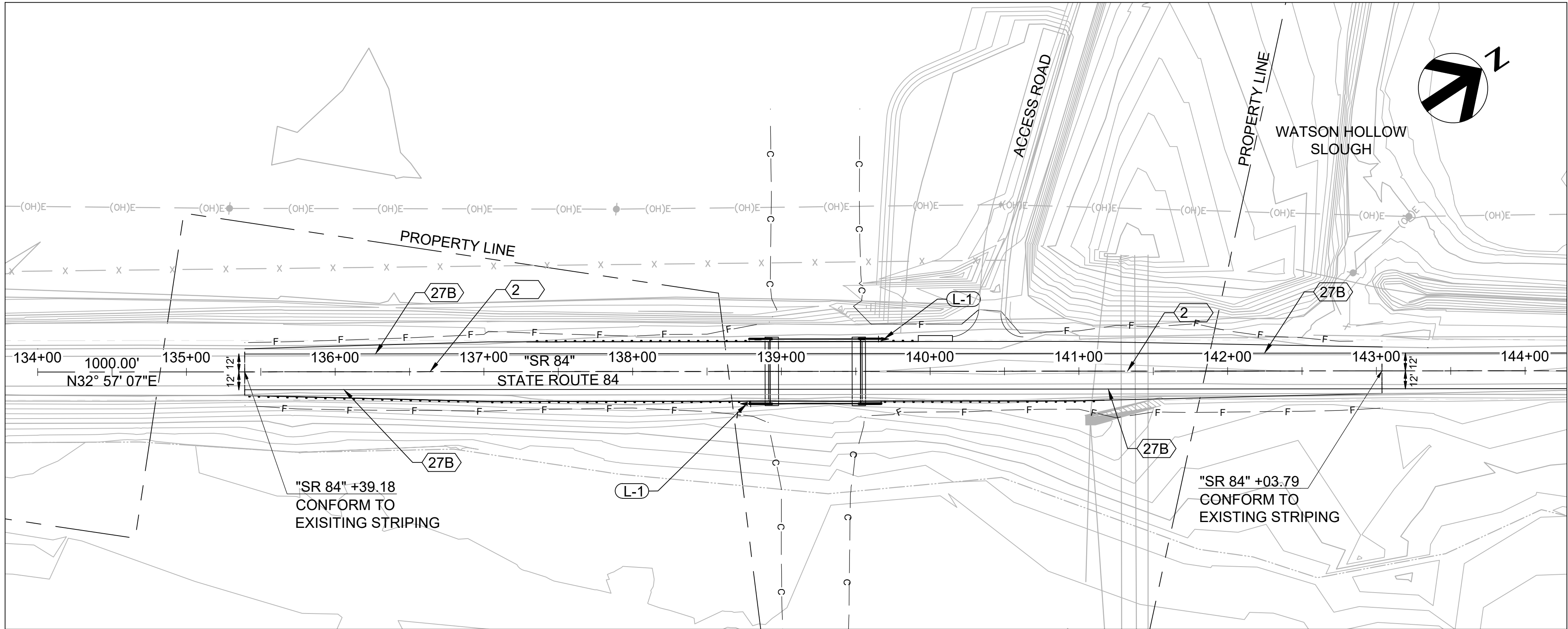
LEGEND

- XX

PAVEMENT DELINATION DETAIL
- L-X

OBJECT MARKER DETAIL No.
- 

OBJECT MARKER SYMBOL

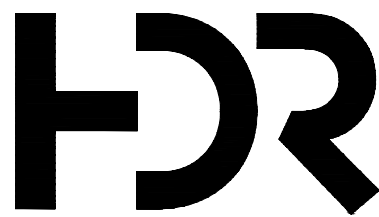


PLAN - ROUTE 84
SCALE: 1" = 50'

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DIRECTION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)		YELLOW PAVEMENT MARKER (RETROREFLECTIVE)	OBJECT MARKER (TYPE L-1)
				6”			
				WHITE	(BROKEN 8-4) YELLOW		
				LF	LF	EA	EA
PD-1	"SR 84" STA 135+39.18 TO "SR 84" 143+03.79	EB/WB	2		765	32	
PD-1	"SR 84" STA 135+39.18 TO "SR 84" 143+03.79	WB	27B	765			
PD-1	"SR 84" STA 135+39.18 TO "SR 84" 143+03.79	EB	27B	765			
PD-1	"SR 84" STA 138+80.87	EB					1
PD-1	"SR 84" STA 139+64.65	WB					1
TOTALS				1,530	765	32	2

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PROJECT NUMBER	10364495



CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

PAVEMENT DELINEATION
PLAN AND QUANTITIES



FILENAME | 10364495na001.dwg
SCALE | AS NOTED

SHEET
PD-1

HDR_WR.dwg
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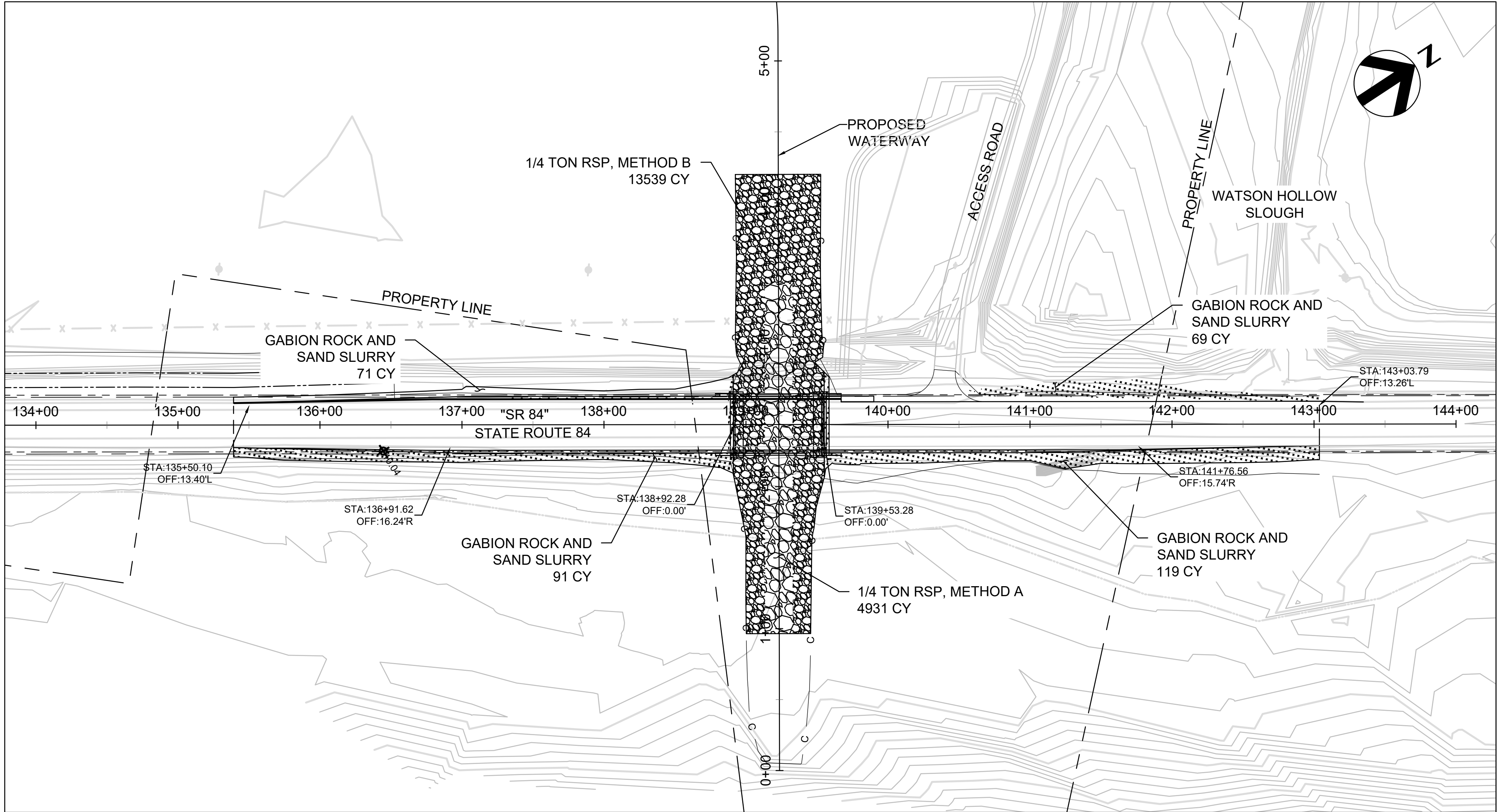
NOTES:
1. FOR ACCURATE RIGHT OF WAY DATA,
CONTACT RIGHT OF WAY ENGINEERING
AT THE DISTRICT OFFICE.

LEGEND

GABION ROCK AND SAND SLURRY

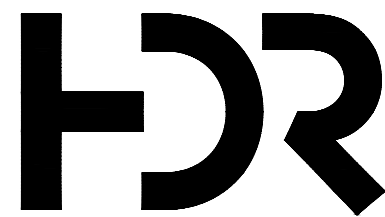
ROCK SLOPE PROTECTION (1/4 TON, METHOD A)

ROCK SLOPE PROTECTION (1/4 TON, METHOD B)



PLAN - ROUTE 84
SCALE: 1" = 50'

65% NOT FOR CONSTRUCTION



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	D. JABBOUR
DESIGNED BY	T. CRANE
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TECHNICAL LEAD	G. ARMSTRONG
DATE	APRIL 5, 2024
PROJECT NUMBER	10364495



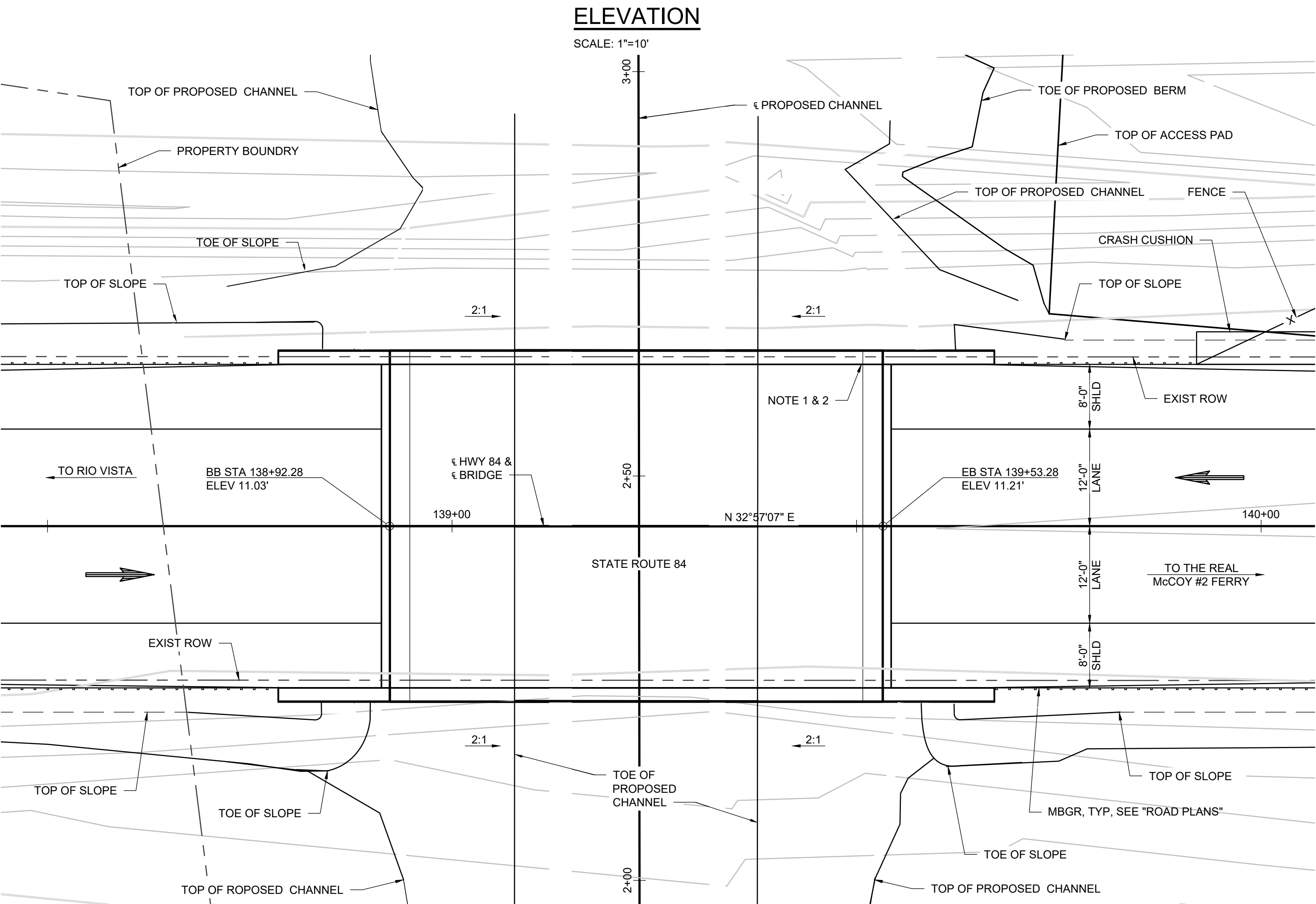
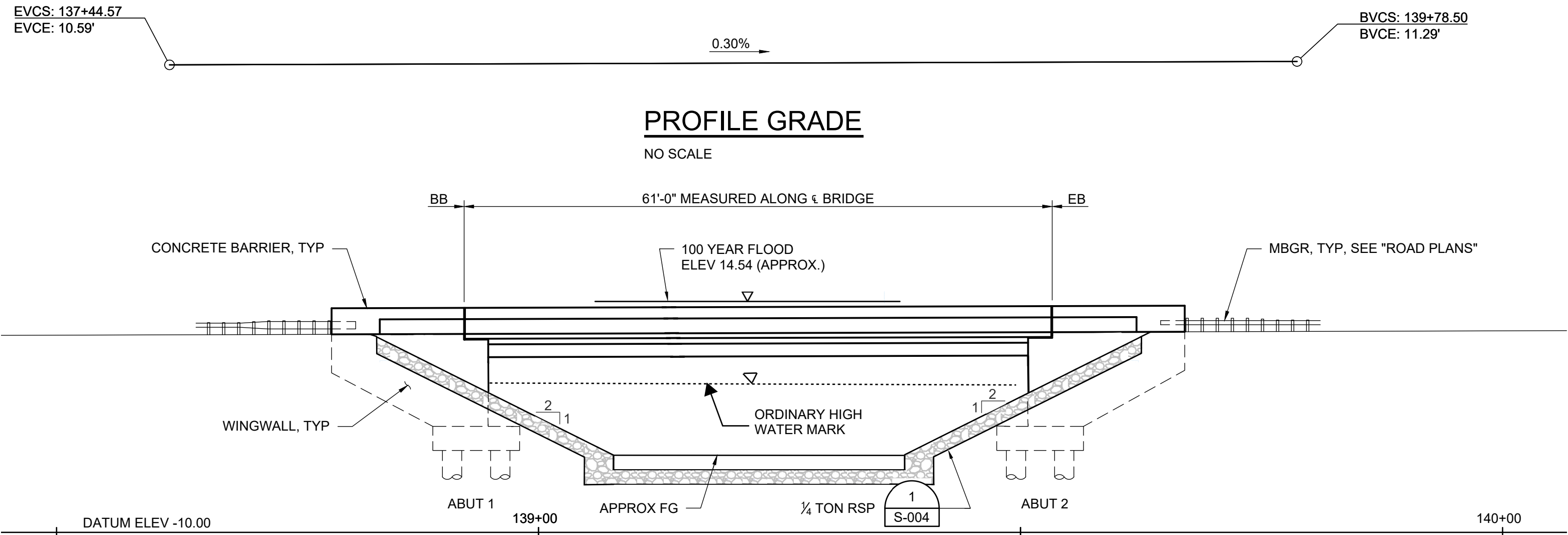
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

EROSION CONTROL



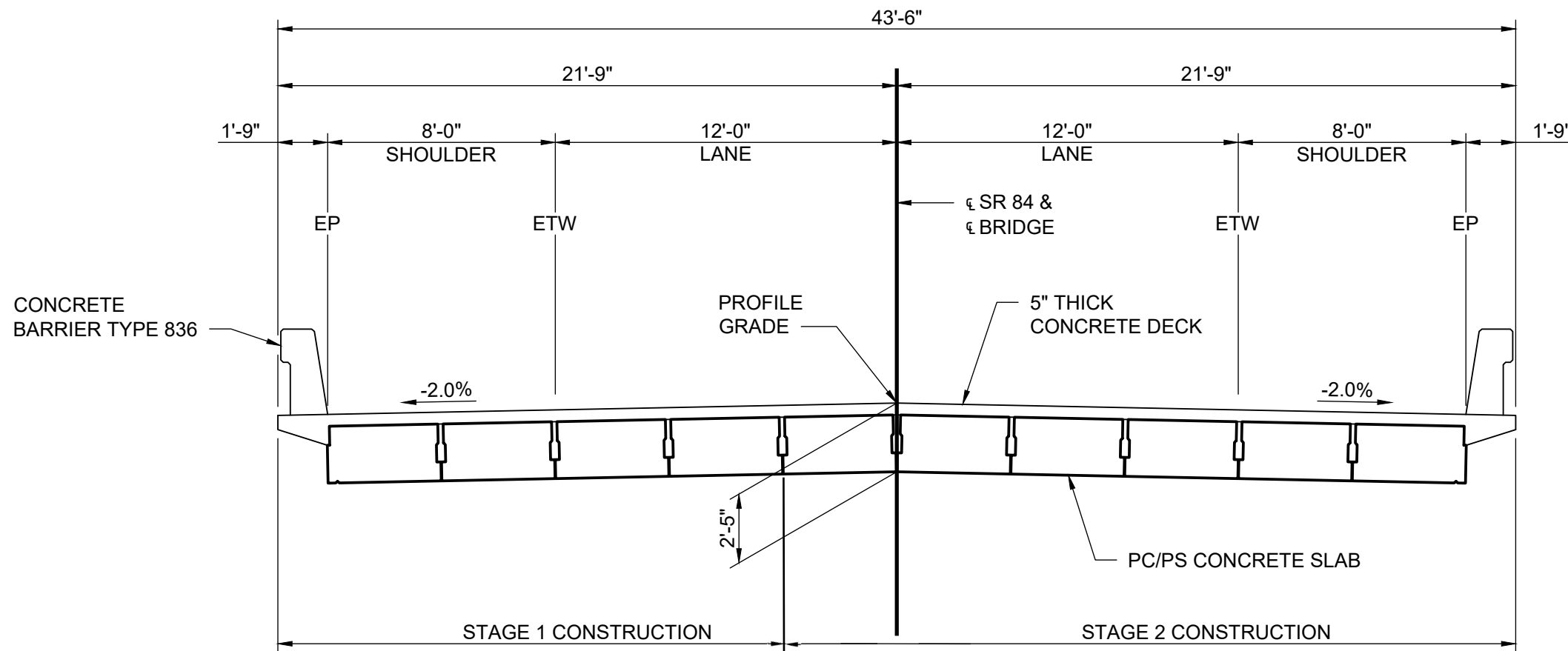
FILENAME | 10364495te001.dwg
SCALE | AS NOTED

SHEET
EC-1



PLAN

SCALE: 1"=10'



TYPICAL SECTION

SCALE: 1"=5'

INDEX TO PLANS

S-001	GENERAL PLAN
S-002	DECK CONTOURS
S-003	FOUNDATION PLAN
S-004	TYPICAL ABUTMENT LAYOUT
S-005	ABUTMENT DETAILS NO. 1
S-006	ABUTMENT DETAILS NO. 2
S-007	TYPICAL SECTION
S-008	PRECAST PRESTRESSED CONCRETE SLAB DETAILS NO. 1
S-009	PRECAST PRESTRESSED CONCRETE SLAB DETAILS NO. 2

**CALTRANS STANDARD
PLANS DATED 2023**

A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RANGE = 2")
B11-79	CONCRETE BARRIER TYPE 836 DETAILS NO. 1
B11-80	CONCRETE BARRIER TYPE 836 DETAILS NO. 2

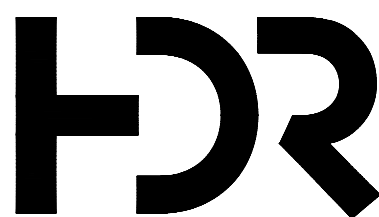
STANDARD PLAN SHEET NO.

DETAIL NO.

NOTES:

1. PAINT "BRIDGE NO. XX-XXXX" AND
YEAR OF CONSTRUCTION.
2. REFER TO "ROAD PLANS" FOR ROADWAY IMPROVEMENTS
NOT SHOWN ON THIS DRAWING.

65% NOT FOR CONSTRUCTION



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DATE	MAY 29, 2024
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**CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE**

GENERAL PLAN

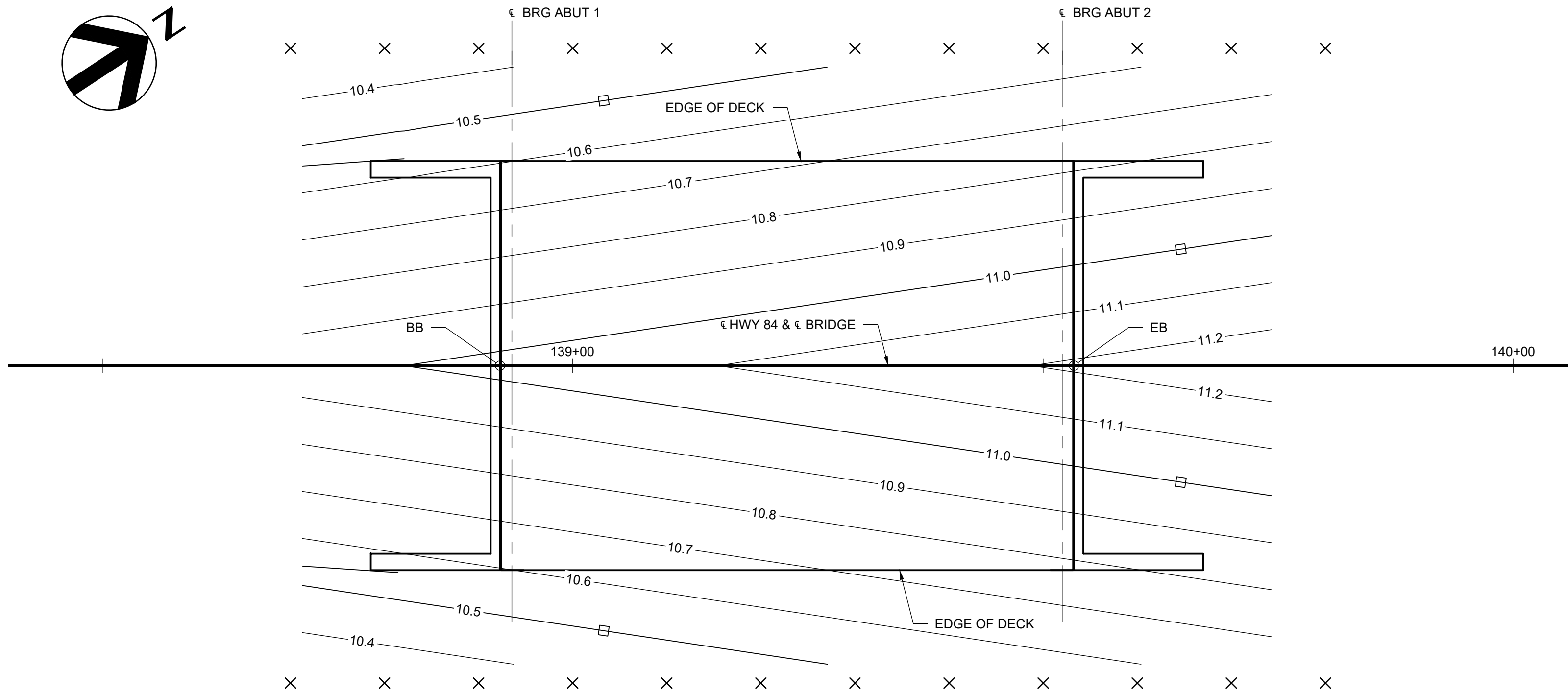


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SCALE | AS NOTED

SHEET
S-001

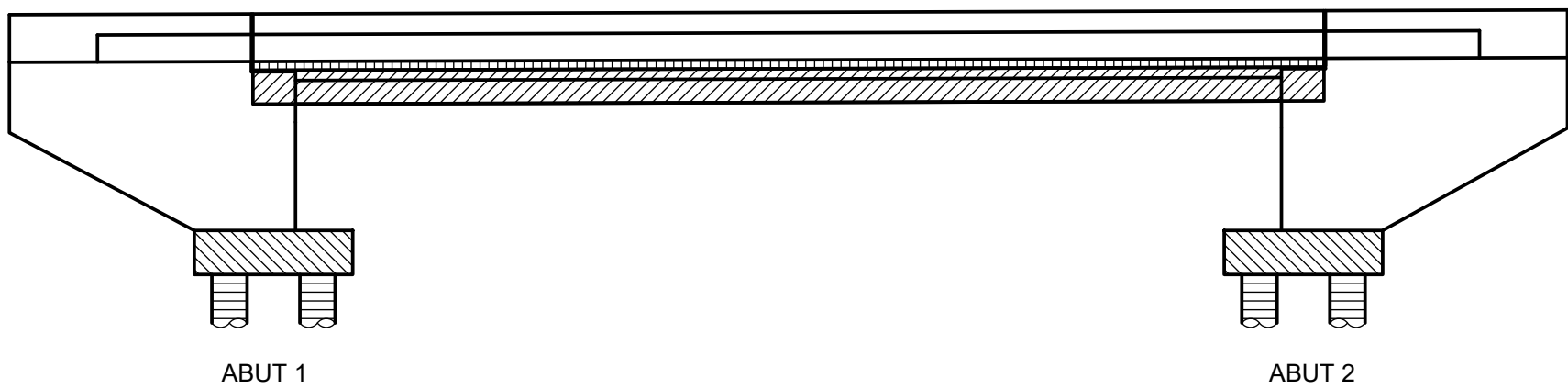
NOTES:

- 1. CONTOURS DO NOT INCLUDE CAMBER OR ALLOWANCE FOR FALSEWORK SETTLEMENT.
- 2. CONTOUR INTERVAL = 0.1'.
- 3. □ - INDICATES 0.5' CONTOURS.
- 4. X - INDICATES 10' INTERVALS MEASURED ALONG "½ BRIDGE".



QUANTITIES:

STRUCTURE EXCAVATION (BRIDGE)	263	CY
STRUCTURE BACKFILL (BRIDGE)	143	CY
24" CISS CONCRETE PILING	1,372	LF
STRUCTURAL CONCRETE, BRIDGE FOOTING	77	CY
STRUCTURAL CONCRETE, BRIDGE	159	CY
FURNISH PRECAST PRESTRESSED CONCRETE SLAB	2,440	SF
ERECT PRECAST PRESTRESSED CONCRETE DECK UNIT	10	EA
BAR REINFORCING STEEL (BRIDGE)	21,000	LB
JOINT SEAL (MR=1/2")m	87	LF
CONCRETE BARRIER (836)	186	LF
MISCELLANEOUS METAL (BRIDGE)	500	LB



NOTES:

- STRUCTURAL CONCRETE, BRIDGE ($f_c = 4,000$ PSI @ 28 DAYS)
- STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) ($f_c = 5,000$ PSI @ 28 DAYS)
- STRUCTURAL PRECAST CONCRETE, ($f_c =$ SEE "PRECAST PRESTRESSED CONCRETE SLAB DETAILS" SHEET S-009)
- STRUCTURAL CONCRETE, BRIDGE FOOTING ($f_c = 4,000$ PSI @ 28 DAYS)
- STRUCTURAL CONCRETE, BRIDGE PILES ($f_c = 4,000$ PSI @ 28 DAYS)

CONCRETE STRENGTH AND TYPE LIMITS

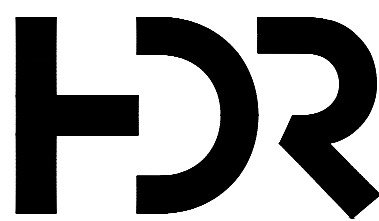
NO SCALE

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION AND THE CALTRANS AMENDMENTS, PREFACE DATED DEC 2008.
SEISMIC DESIGN:	CALTRANS SEISMIC DESIGN CRITERIA (SDS), VERSION 1.4 JULY 2005.
DEAD LOAD:	INCLUDES 35 PSF FOR FUTURE WEARING SURFACE.
LIVE LOAD:	HL-93 AND PERMIT DESIGN LOAD.
SEISMIC LOADING:	DESIGN ARS CURVE, SEE "GEOTECHNICAL" (SOIL PROFILE TYPE D) MAGNITUDE = 6.8 ± 0.25 SPECTRUM PEAK ROCK ACCELERATION = $0.26g$.
REINF CONCRETE:	$f_y = 60,000$ PSI $f_c = 3,600$ PSI, UNLESS NOTED OTHERWISE $n = 8$
PRESTRESSED CONCRETE:	SEE "PRESTRESSING NOTES" ON PRECAST PRESTRESSED CONCRETE SLAB DETAILS" SHEET S-009.
GROUT:	SEE "PRESTRESSING NOTES" ON PRECAST PRESTRESSED CONCRETE SLAB DETAILS" SHEET S-009.
PILES:	SEE "PILE DATA TABLE" ON "FOUNDATION PLAN" SHEET S-003.
GEOTECHNICAL:	SEE "GEOTECHNICAL DESIGN REPORT"

65% NOT FOR CONSTRUCTION



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DATE	MAY 29, 2024
PROJECT NUMBER	10364495



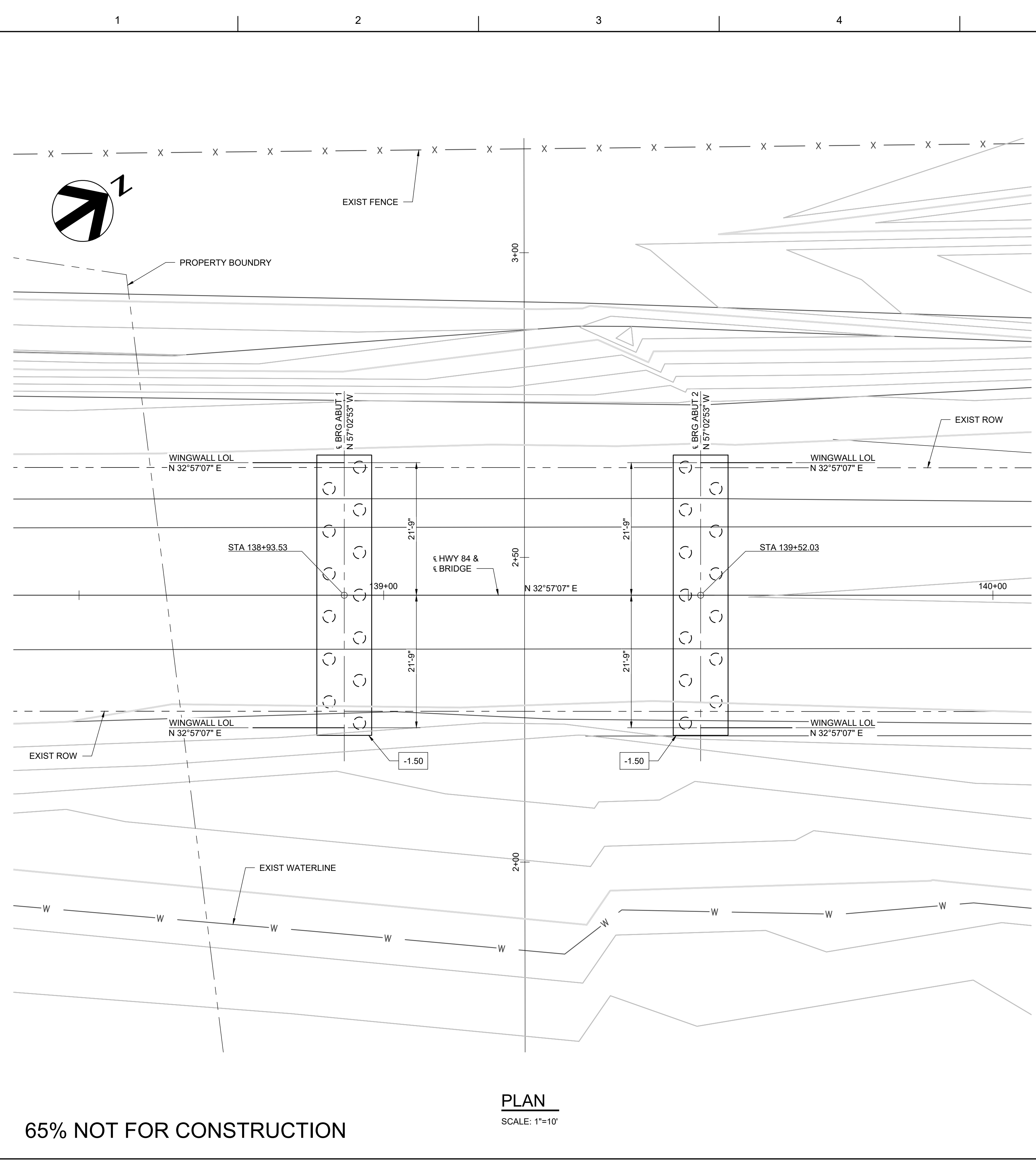
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

DECK CONTOURS

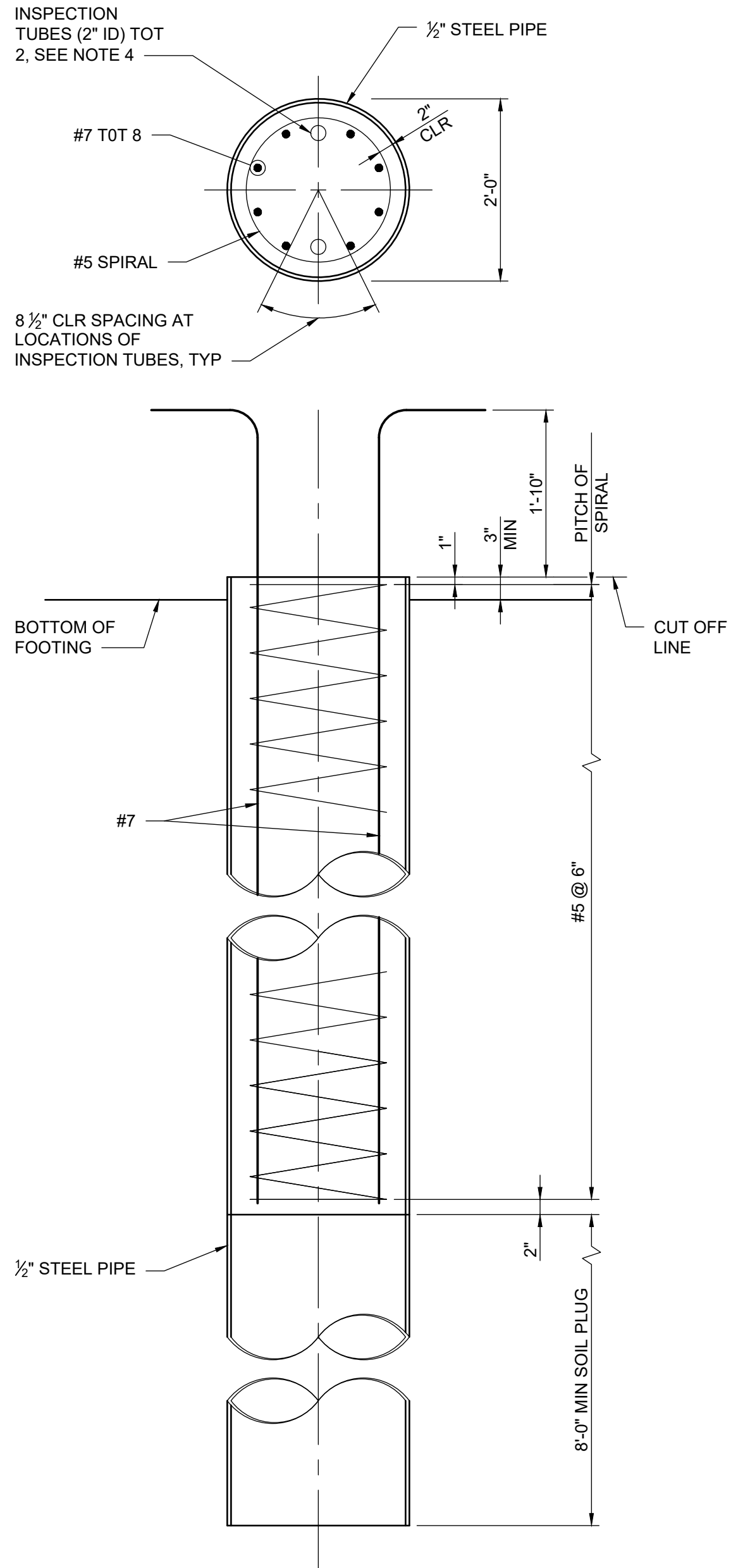


FILENAME	S-002.dwg
SCALE	AS NOTED

SHEET	S-002
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PILE NOTES:

- REINFORCEMENT EXTENDING INTO FOOTING SHALL BE HOOKED AS SHOWN TO PROVIDE CLEARANCE TO TOP OF FOOTING.
- LAPPED SPLICES IN SPIRAL PILE REINFORCEMENT SHALL BE LAPPED AT LEAST 80 WIRE/BAR DIAMETERS. SPIRAL PILE REINFORCEMENT AT SPLICES AND AT ENDS SHALL BE TERMINATED WITH A 135° HOOK WITH A 6" TAIL HOOKED AROUND A LONGITUDINAL BAR.
- PILES SHALL BE EXTENDED ONLY IN ACCORDANCE WITH DETAILS SHOWN IN THE PROJECT PLANS.
- THE INSPECTION TUBES COULD BE OMITTED IF THE CONCRETE IS POURED IN DRY CONDITION.

PILE DATA TABLE					
LOCATION	TYPE	NOMINAL RESISTANCE		CUT-OFF ELEV	TIP ELEV
		COMPRESSION	TENSION		
ABUT 1	24" CISS	220 KIPS	0	-1.25	-54.0
ABUT 2	24" CISS	220 KIPS	0	-1.25	-54.0

HYDROLOGIC SUMMARY:

FLOOD EVENT	WATER ELEV
100 YR	14.33 (APPROX.)
10 YR	6.77 (APPROX.)

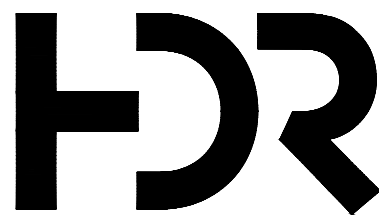
SEE "STORM DRAINAGE MASTER PLAN" PREPARED BY MBK ENGINEERING.

NOTES:

- CONTOURS SHOWN ARE EXISTING GROUND.
- SEE "ROAD PLANS" FOR TYPE AND LOCATIONS OF ALL EXISTING AND PROPOSED UTILITIES.
- LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. VERIFY LOCATIONS OF ALL AFFECTED UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.
- TOPOGRAPHIC SURVEY AND INFORMATION PROVIDED BY COUNTY.

LEGEND:

- INDICATES BOTTOM OF FOOTING ELEVATION.
- INDICATES STRUCTURE INSTALLED UNDER THIS CONTRACT.
- INDICATES EXISTING FEATURES.
- INDICATES CISS PILE.



ISSUE	DATE	DESCRIPTION

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TECHNICAL LEAD	G. ARMSTRONG
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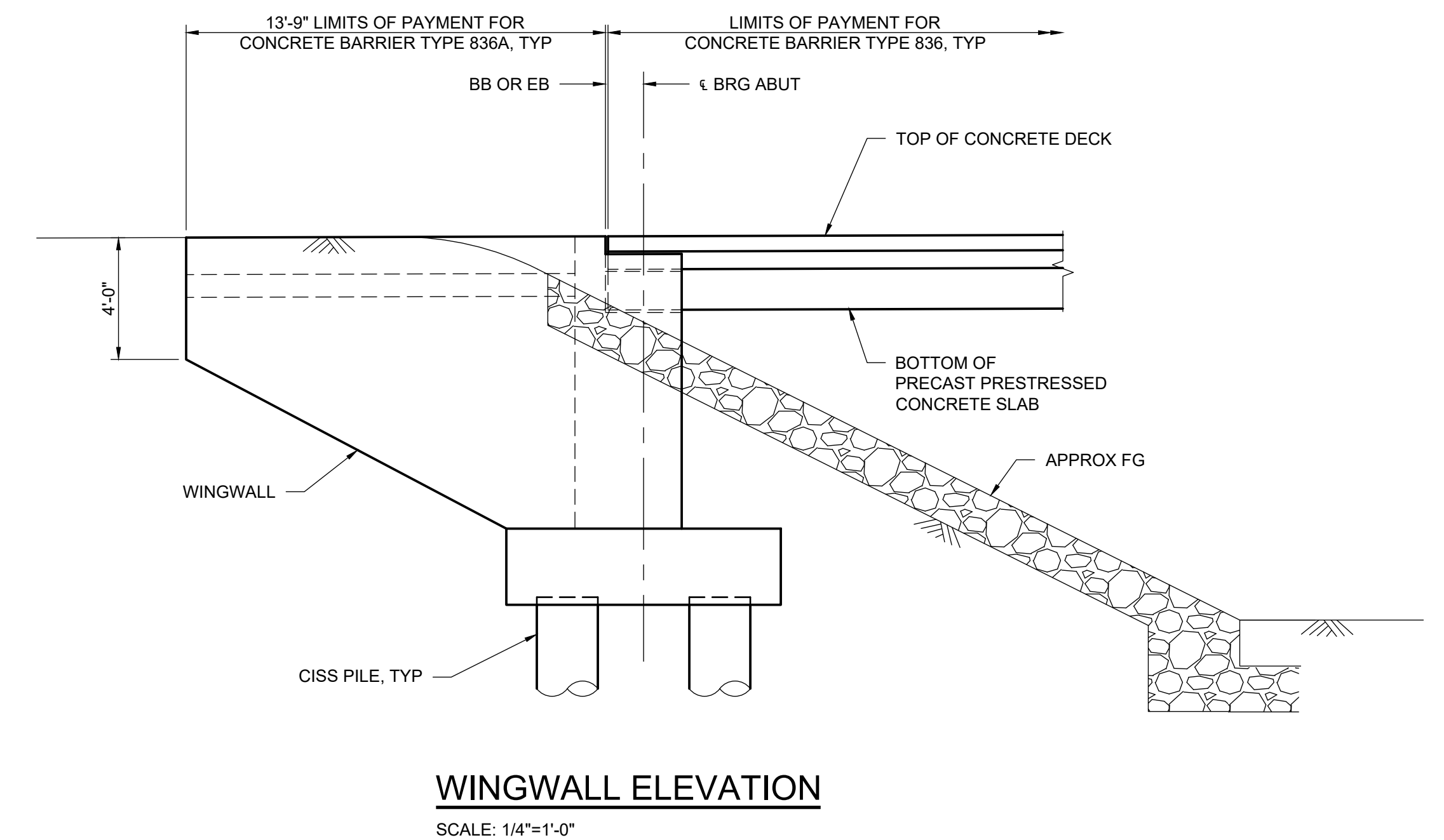
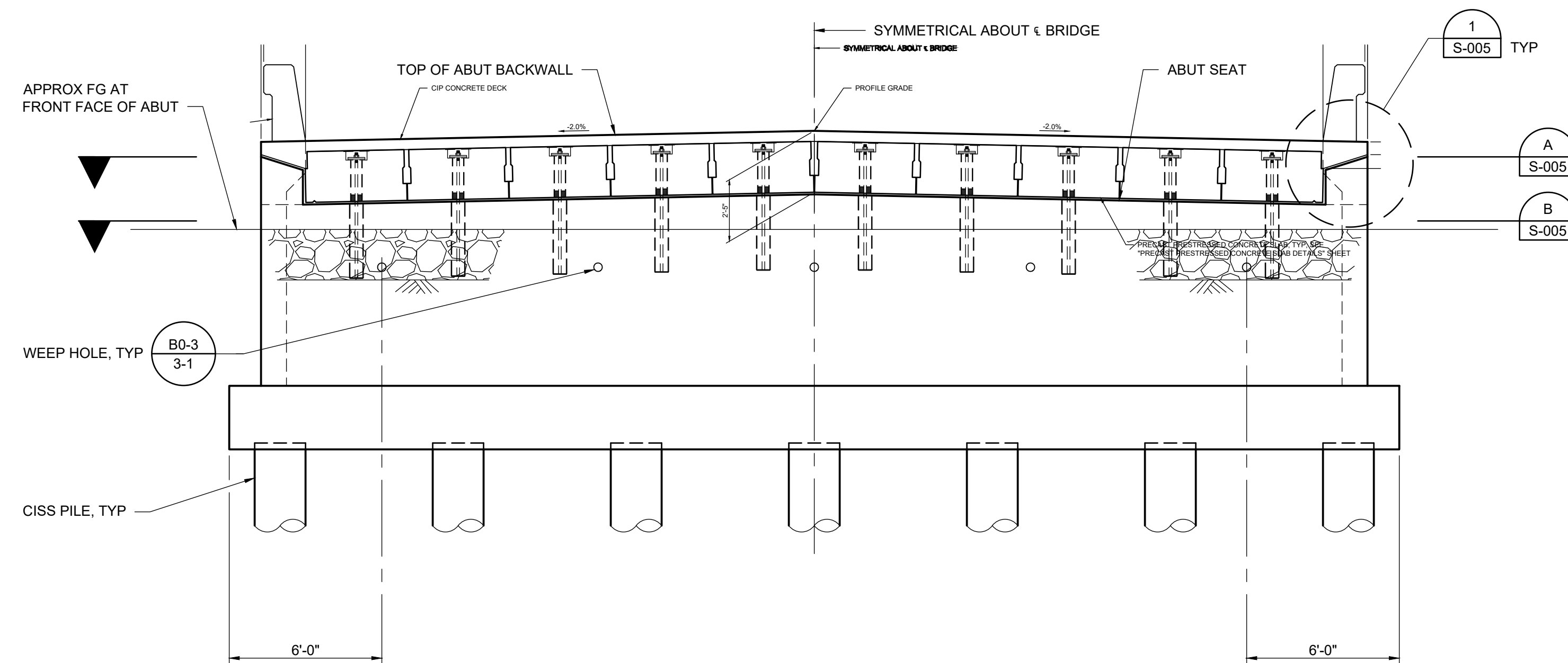
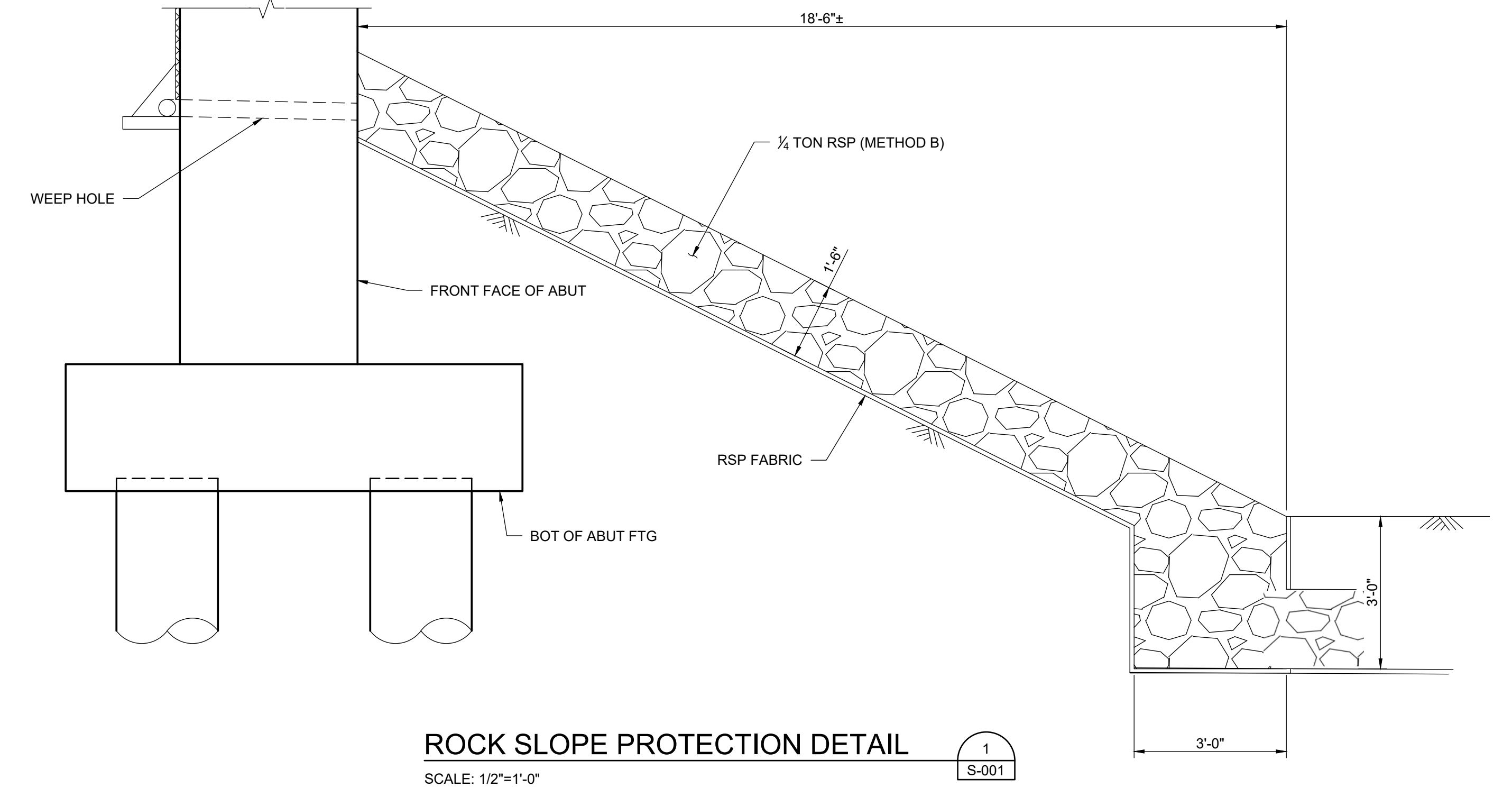
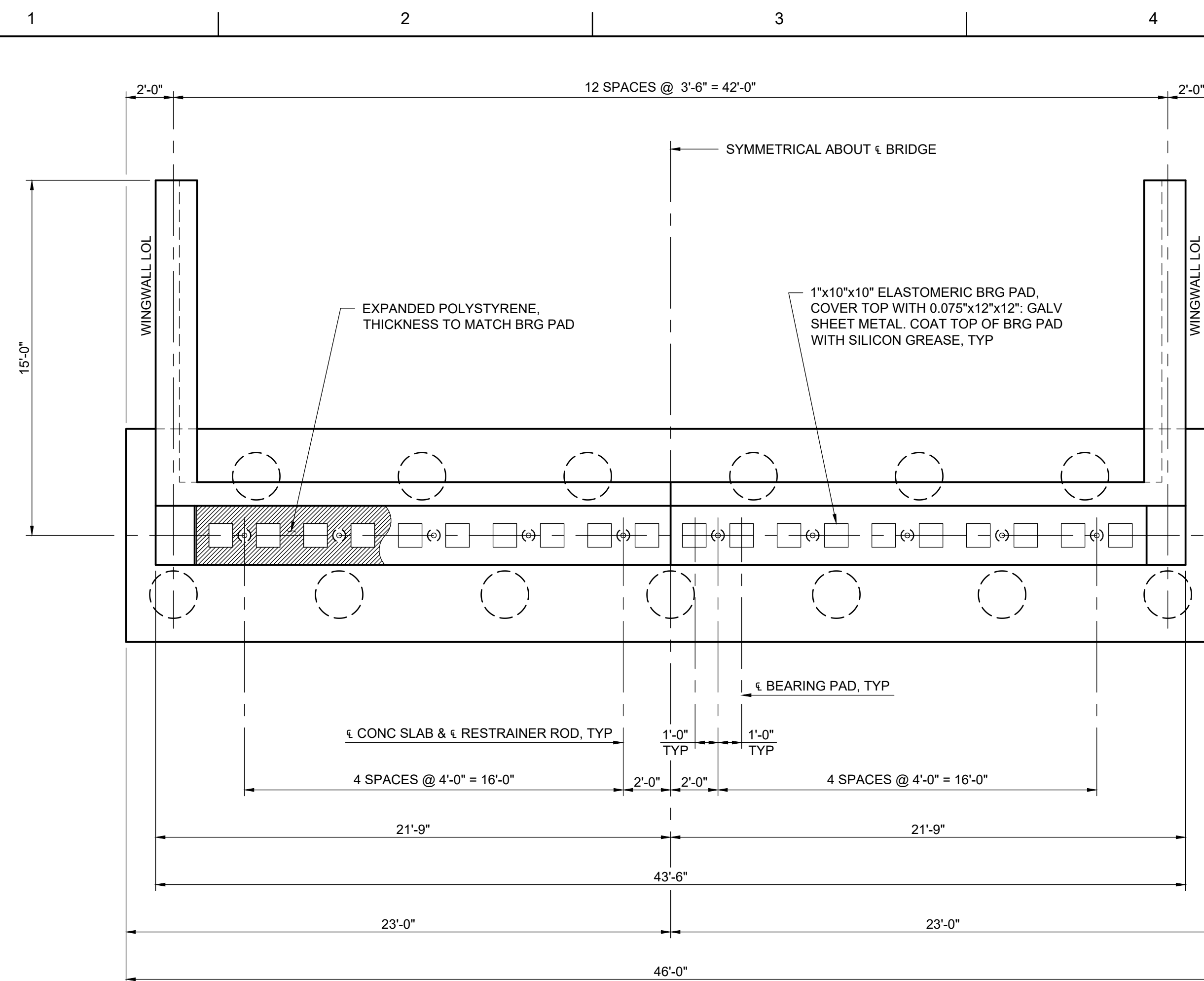
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

FOUNDATION PLAN

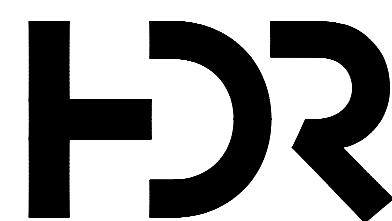


FILENAME | S-003.dwg
SCALE | AS NOTED

SHEET
S-003



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[illegible]

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CACHE SLOUGH MITIGATION BANK WATER CROSSING STRUCTURE

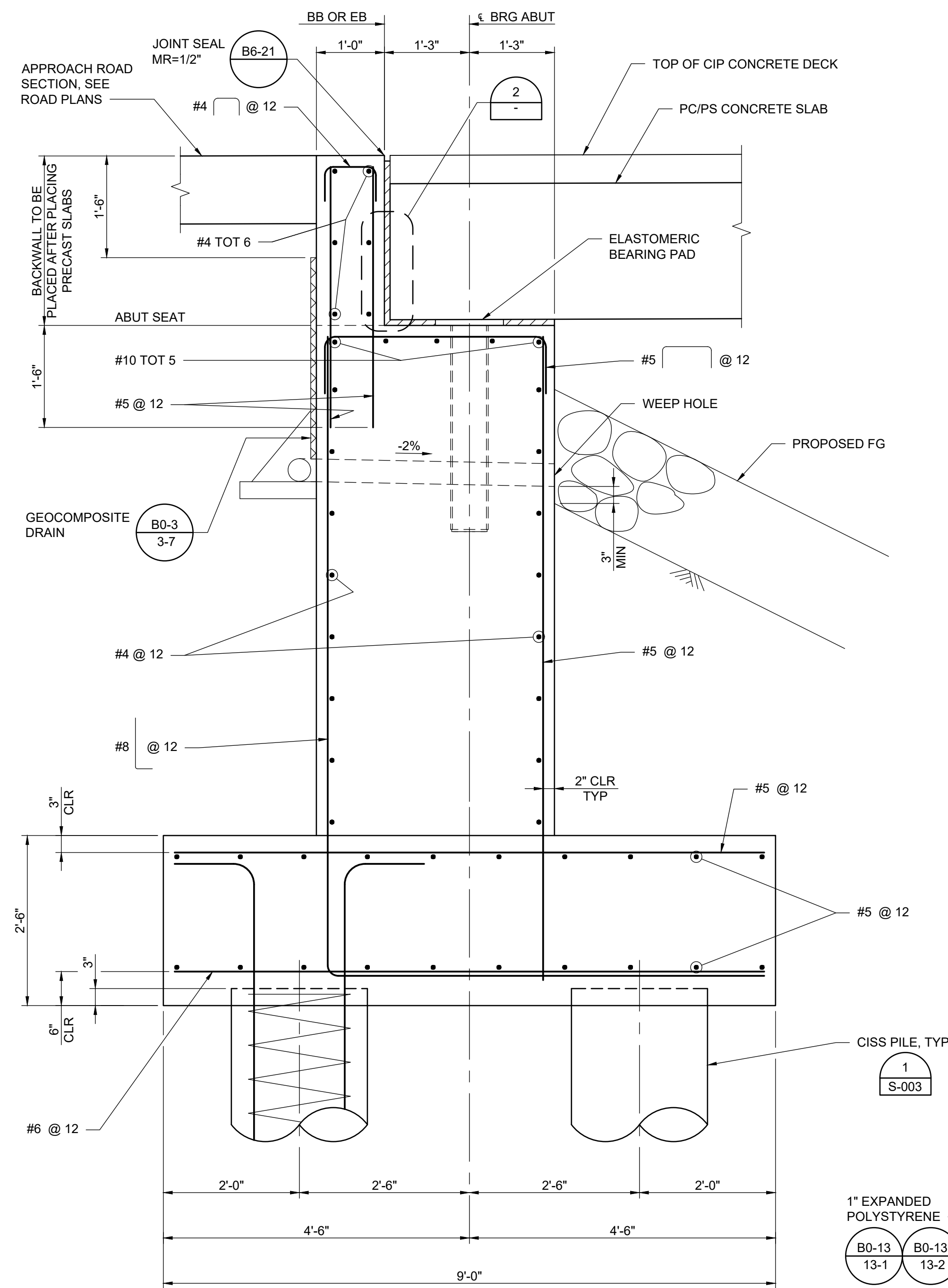
TYPICAL ABUTMENT LAYOUT



FILENAME	S-004.dwg
SCALE	AS NOTED

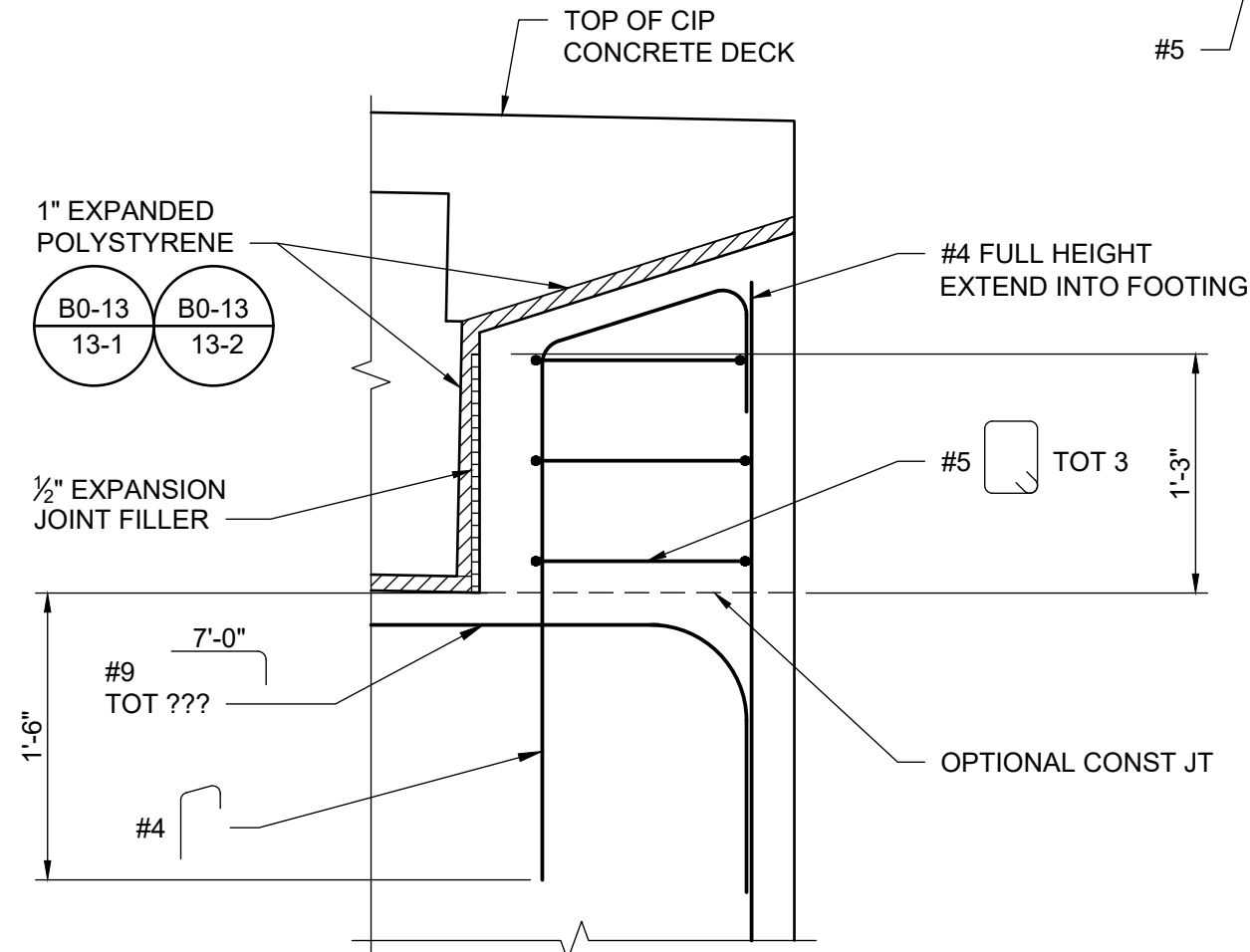
SHEET

S-004



TYPICAL SECTION

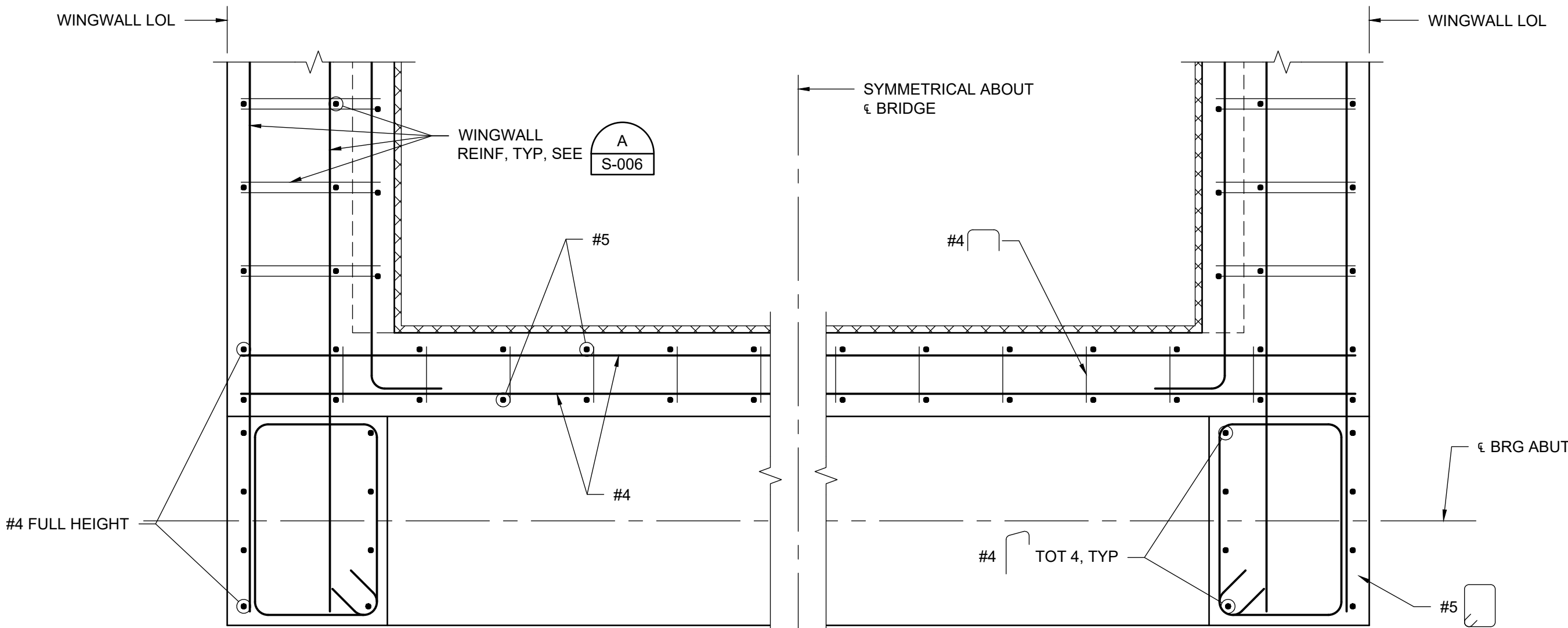
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NOTE: ABUTMENT REINF NOT SHOWN.

SHEAR KEY DETAIL

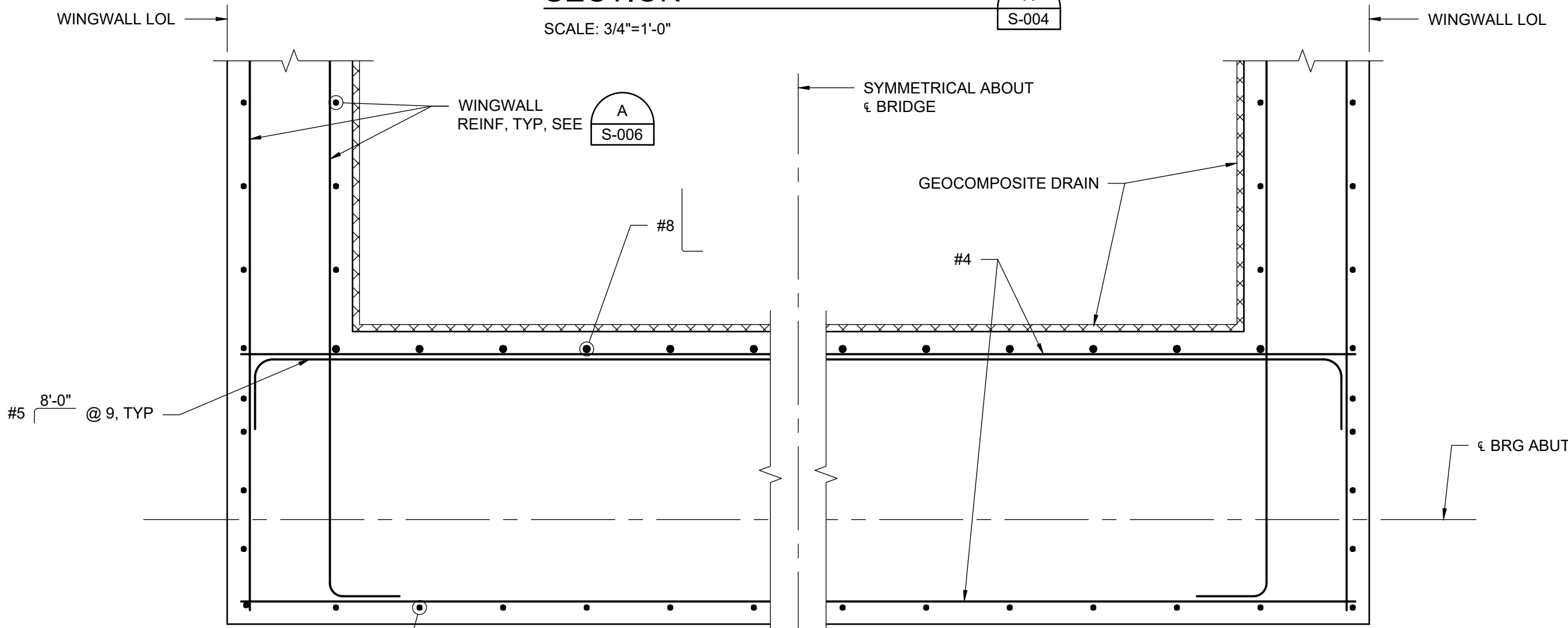
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NOTE: FOR ADDITIONAL INFORMATION, SEE SECTION B.

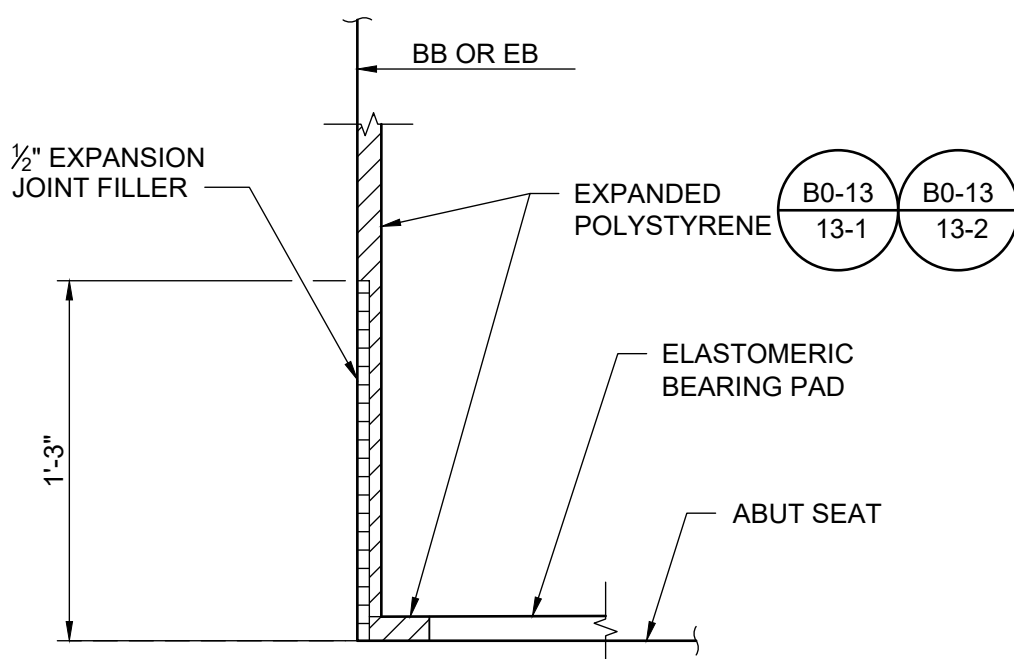
SECTION

SCALE: 3/4"=1'-0"



SECTION

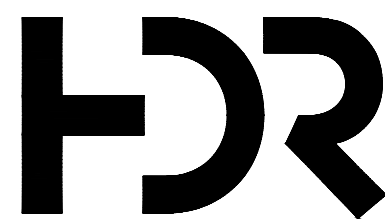
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DETAIL

NO SCALE

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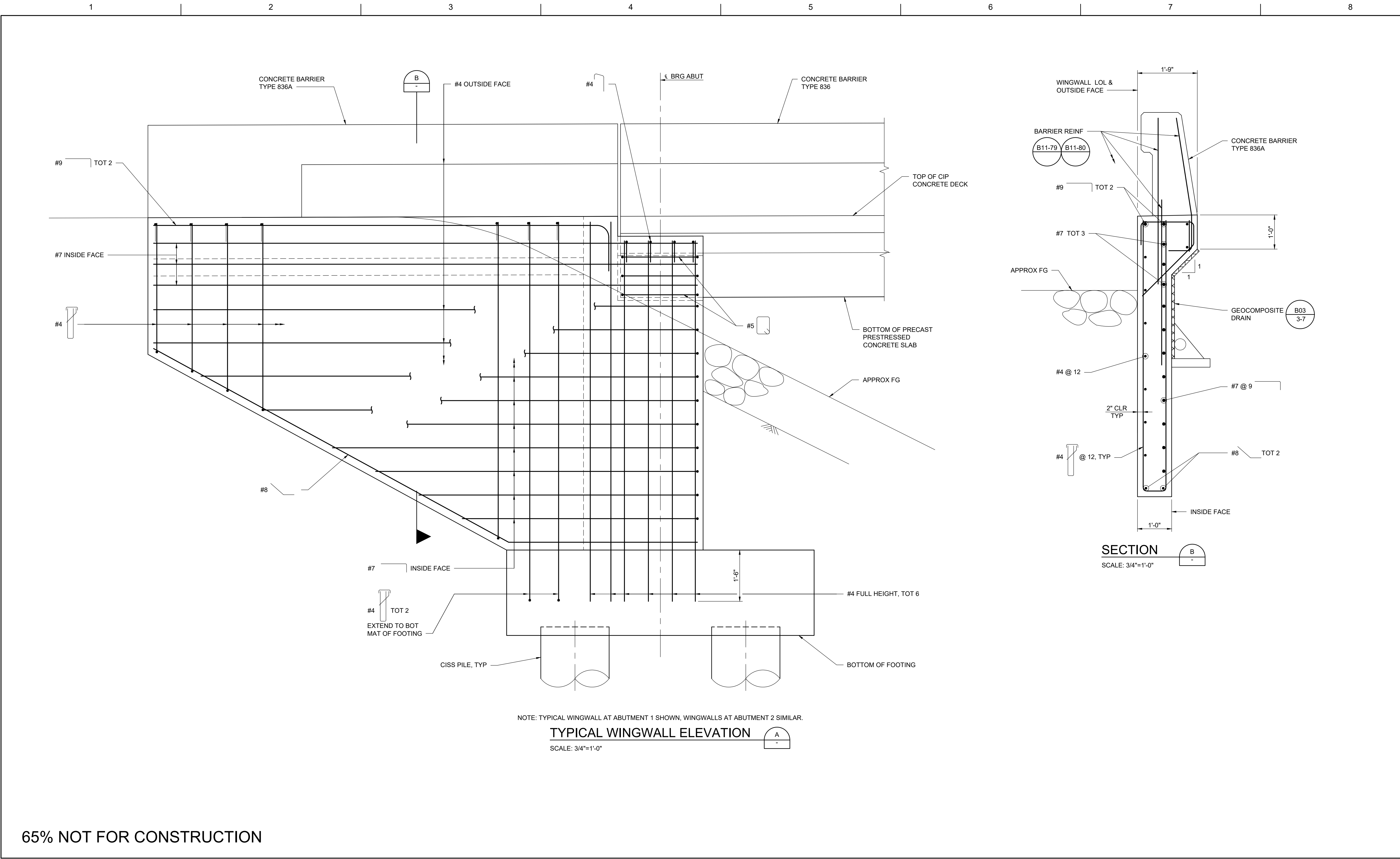
**CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE**

ABUTMENT DETAILS NO. 1

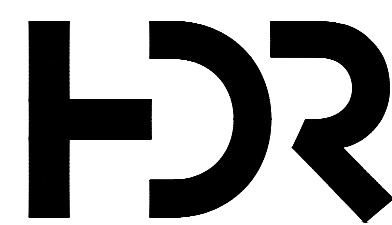


FILENAME | S-005.dwg
SCALE | AS NOTED

SHEET
S-005



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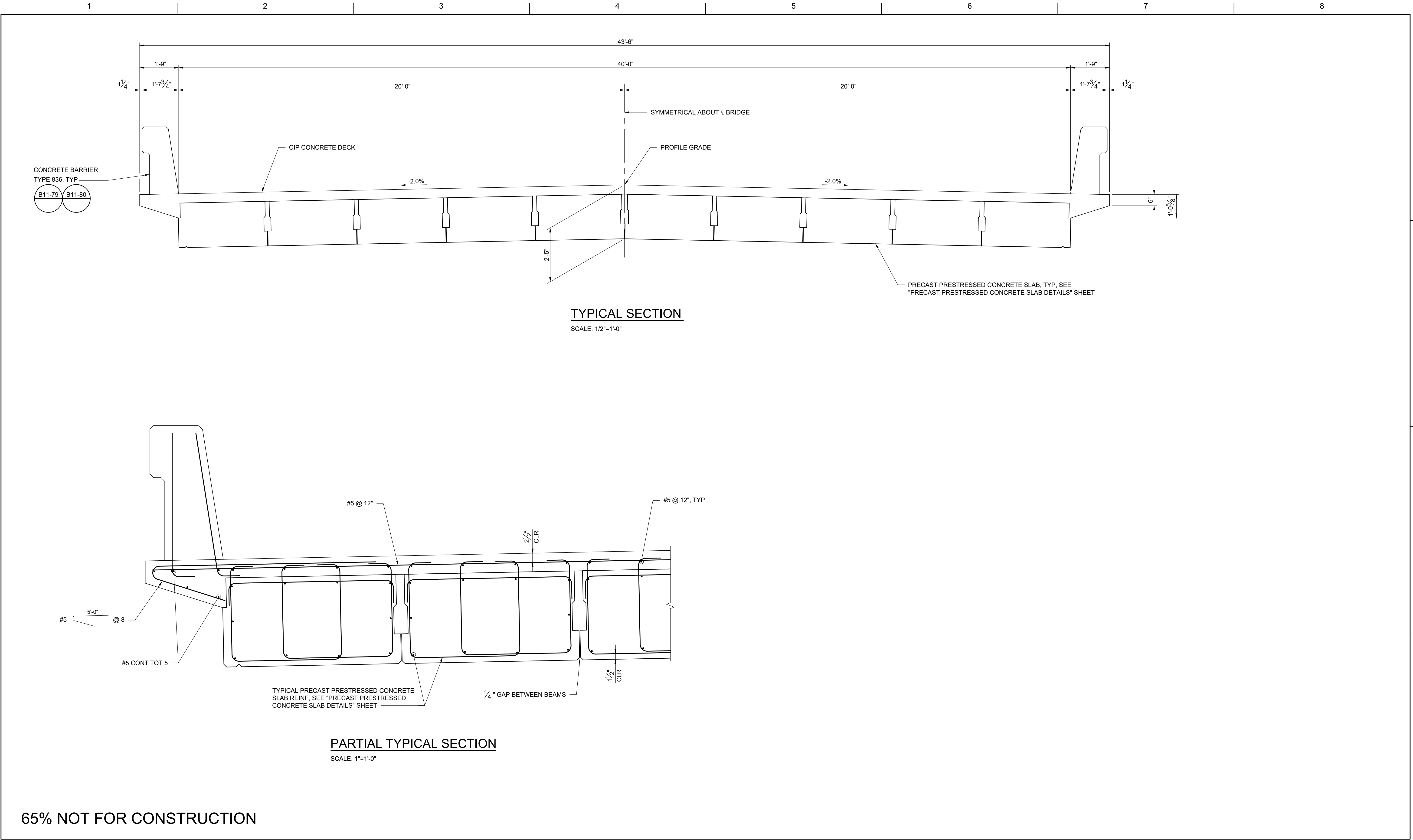
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

ABUTMENT DETAILS NO. 2

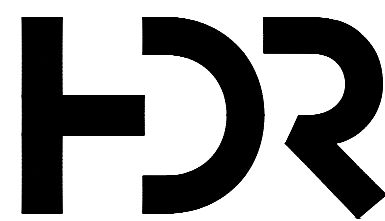


FILENAME S-006.dwg
SCALE AS NOTED

SHEET
S-006



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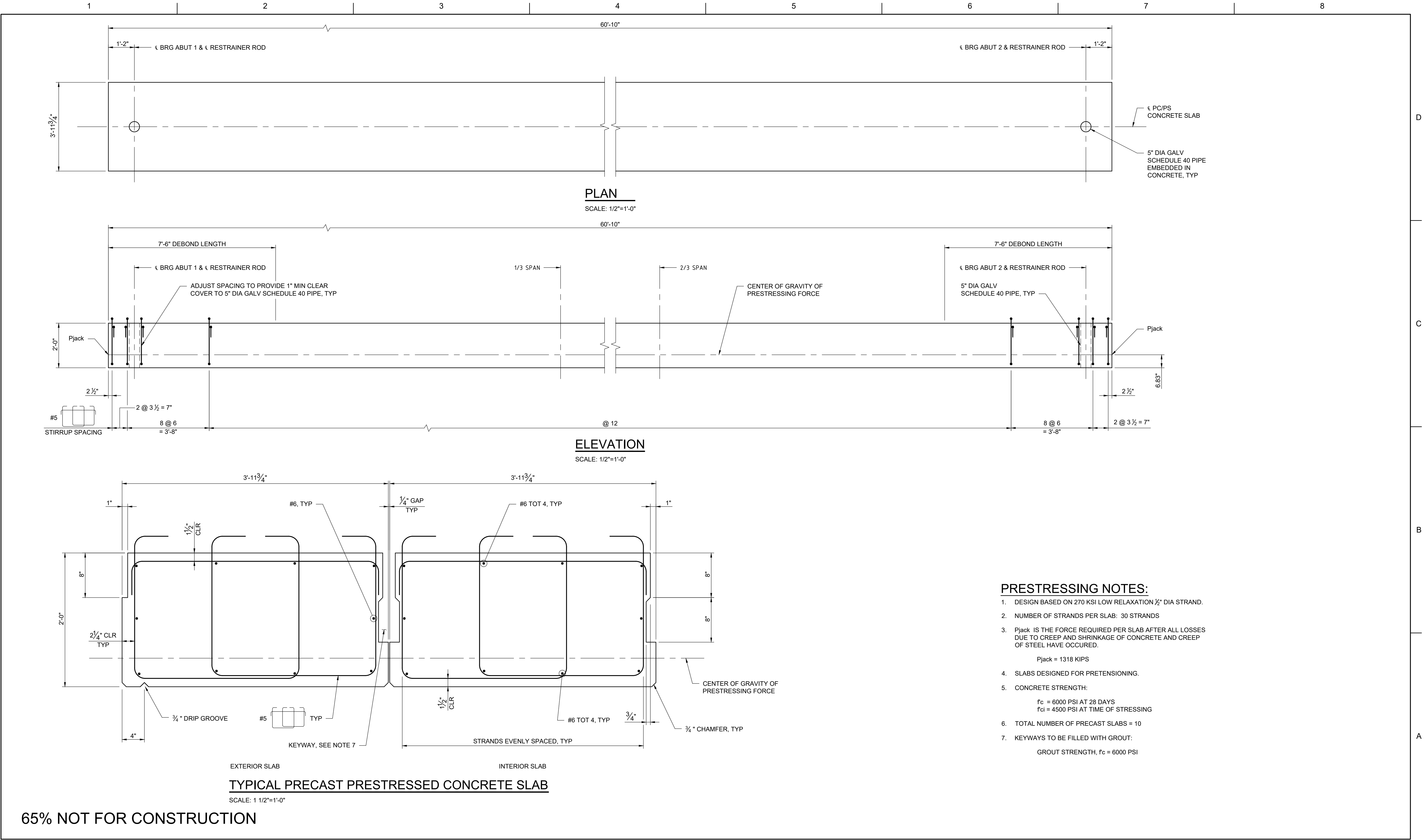
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

TYPICAL SECTION

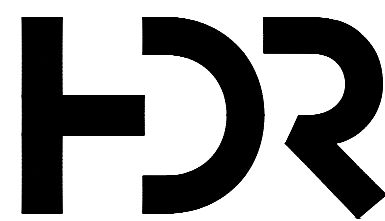


FILENAME | S-007.dwg
SCALE | AS NOTED

SHEET
S-007



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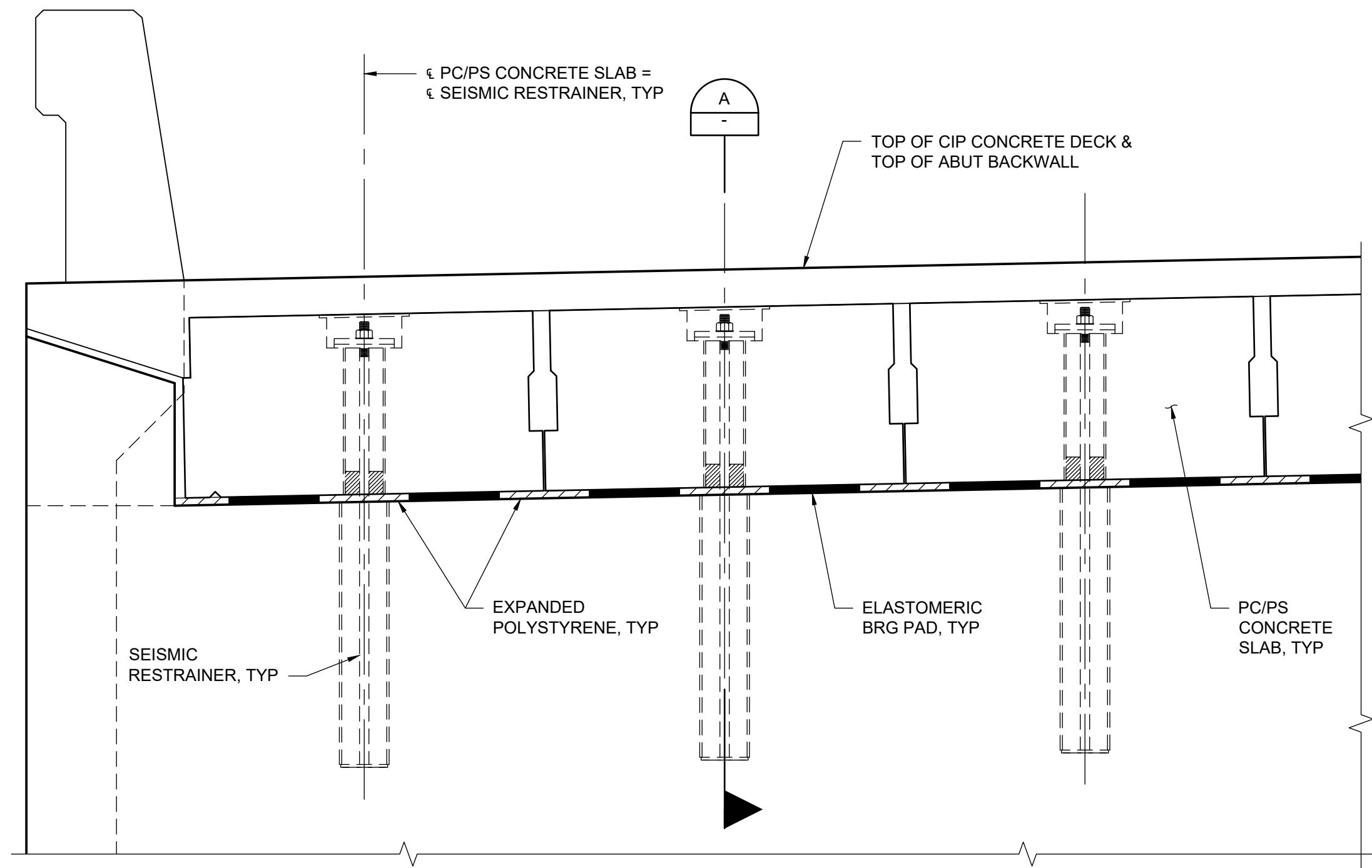
CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE

PRECAST PRESTRESSED CONCRETE SLAB
DETAILS NO. 1

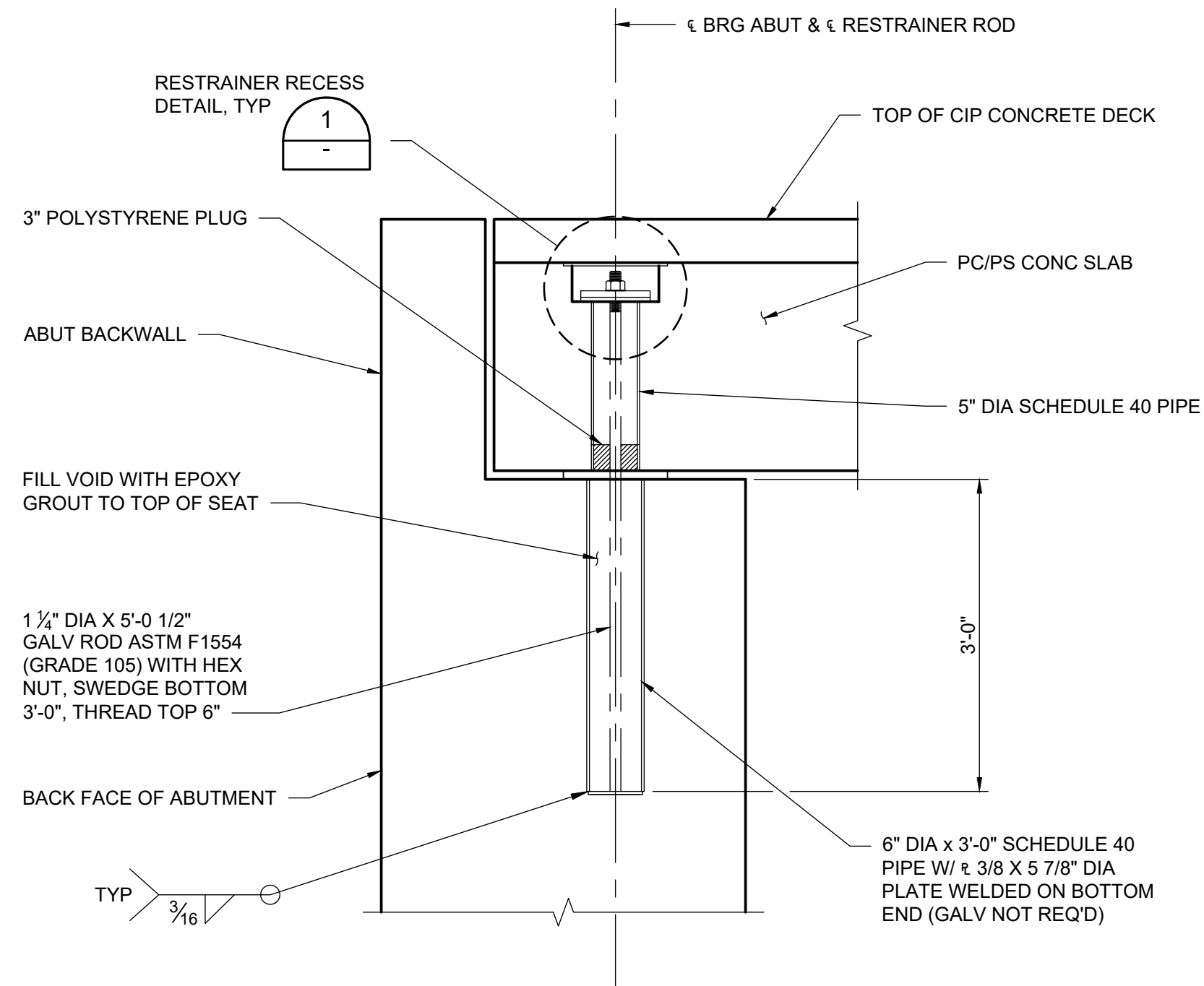


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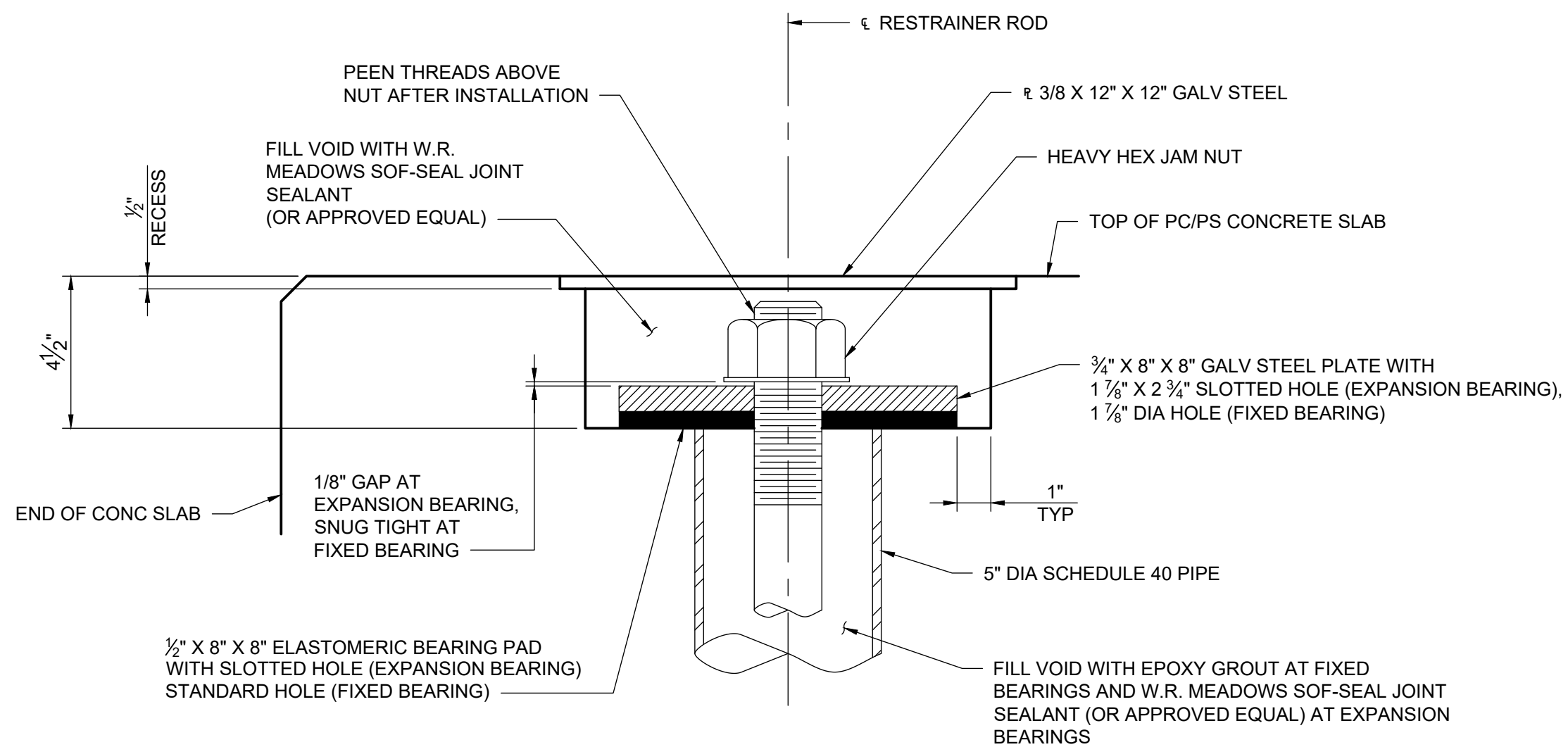
SHEET
S-008



PARTIAL ELEVATION - SEISMIC RESTRAINERS
SCALE: 3/4"=1'-0"

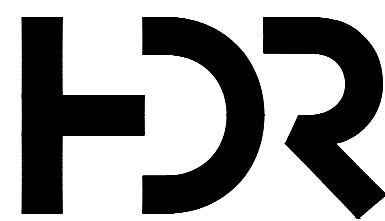


SECTION A-A
SCALE: 3/4"=1'-0"



RESTRAINER RECESS DETAIL
NO SCALE

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CACHE SLOUGH MITIGATION BANK
WATER CROSSING STRUCTURE
PRECAST PRESTRESSED CONCRETE SLAB
DETAILS NO. 2

