Appendix A. Project Location Map

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

CONSULTANT DESIGN MANAGER | CALTRANS DESIGN OVERSIGHT APPROVAL | REGISTRATION No. | LICENSE Exp DATE | DATE SIGNED

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

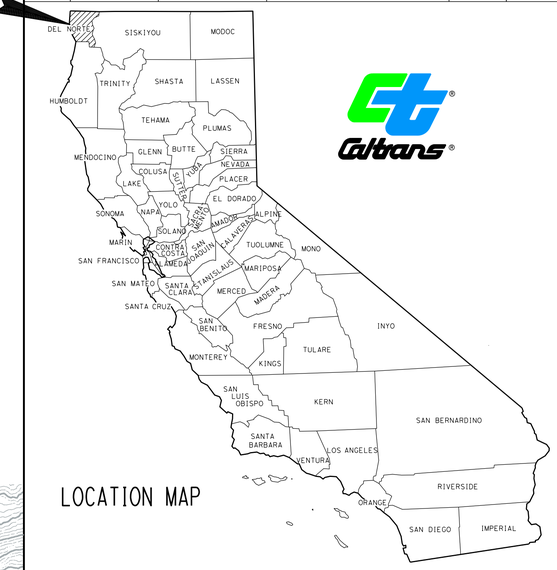
STATE HIGHWAY

IN DEL NORTE COUNTY
NEAR CRESCENT CITY
FROM WILSON CREEK BRIDGE TO
DAMNATION CREEK TRAILHEAD

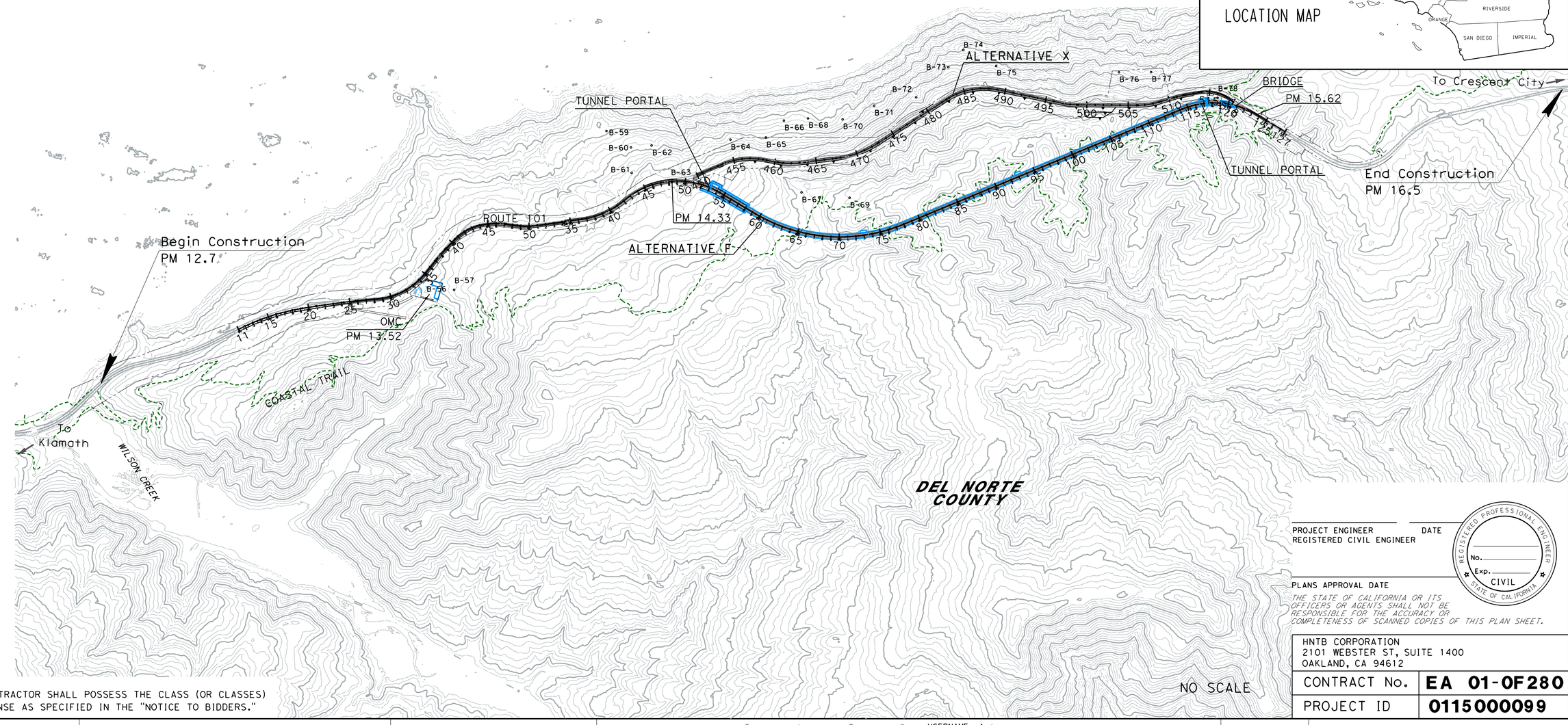
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2018

GEOMETRIC APPROVAL DRAWINGS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	12.7/16.5		



LOCATION MAP



THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HNTB CORPORATION
2101 WEBSTER ST, SUITE 1400
OAKLAND, CA 94612

CONTRACT No.	EA 01-0F280
PROJECT ID	0115000099

LAST REVISION 00-00-00

DATE PLOTTED => 2023-10-19
TIME PLOTTED => 8:41:42 AM

BORDER LAST REVISED 10/4/2013 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => bwong | DGN FILE => 0115000099ab001.dgn | UNIT 0000 | PROJECT NUMBER & PHASE 00000000000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	12.7/16.5		

REGISTERED CIVIL ENGINEER DATE

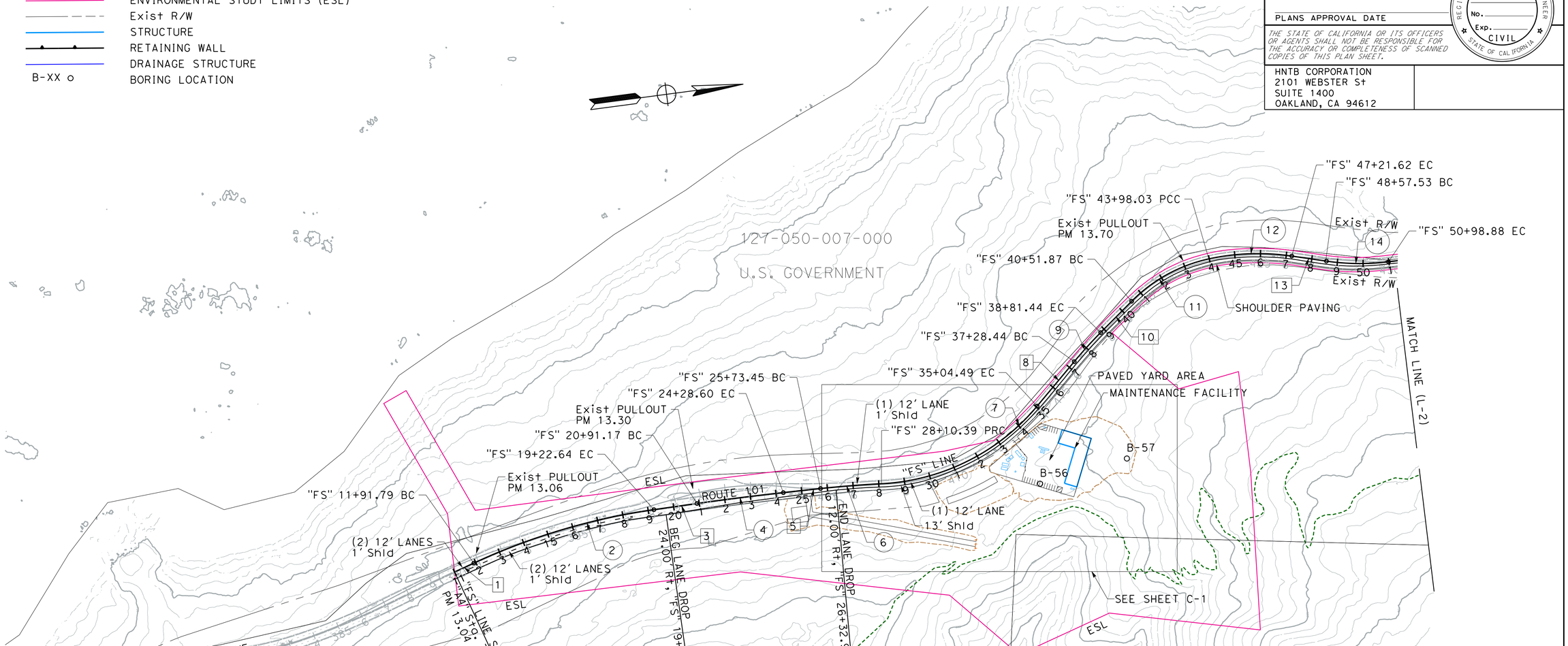
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

HNTB CORPORATION
2101 WEBSTER St
SUITE 1400
OAKLAND, CA 94612

LEGEND:

- CUT/FILL LINE
- COASTAL TRAIL
- ENVIRONMENTAL STUDY LIMITS (ESL)
- Exist R/W
- STRUCTURE
- RETAINING WALL
- DRAINAGE STRUCTURE
- B-XX o BORING LOCATION



LINE DATA

No. [#]	LENGTH	DIRECTION
1	82.19	N 24°54'50" W
3	168.53	N 8°09'51" W
5	144.85	N 6°13'51" W
8	224.38	N 50°10'51" W
10	170.43	N 45°19'29" W
13	135.91	N 8°19'55" E

CURVE DATA

No. (#)	R	Δ	T	L
2	2500.00	16°44'59"	368.05	730.85
4	10000.00	1°56'00"	168.73	337.42
6	4000.00	3°23'38"	118.51	236.95
7	840.00	47°20'38"	368.24	694.10
9	1800.00	4°51'22"	76.33	152.56
11	600.00	33°03'22"	178.05	346.16
12	900.00	20°36'02"	163.56	323.59
14	900.00	15°21'54"	121.41	241.35

LAYOUT

ALTERNATIVE F

SCALE: 1" = 200'

L-1

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION | DATE PLOTTED => $DATE
00-00-00 | TIME PLOTTED => $TIME

BORDER LAST REVISED 7/2/2010

USERNAME => $USER
DGN FILE => $REQUEST

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 00000000001

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	12.7/16.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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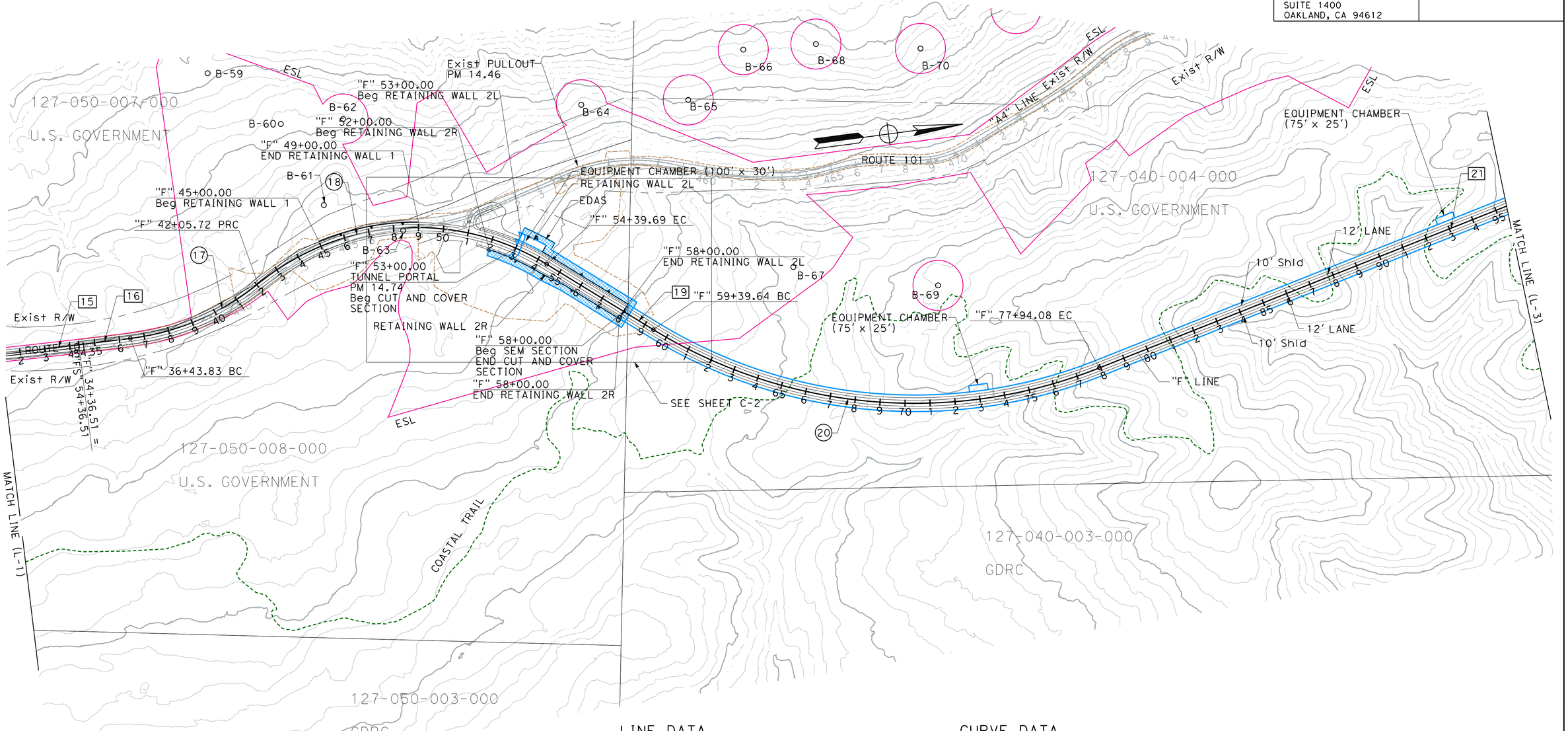
HNTB CORPORATION
2101 WEBSTER St
SUITE 1400
OAKLAND, CA 94612

LEGEND:

- CUT/FILL LINE
- COASTAL TRAIL
- ENVIRONMENTAL STUDY LIMITS (ESL)
- Exist R/W
- STRUCTURE
- RETAINING WALL
- DRAINAGE STRUCTURE
- B-XX o BORING LOCATION



LINE DATA

No. [#]	LENGTH	DIRECTION
15	337.63'	N 07°01'59" W
16	544.95'	N 07°01'59" W
19	499.95'	N 31°28'30" E
21	3636.31'	N 21°39'03" W

CURVE DATA

No. (#)	R	Δ	T	L
17	1000.00'	32°11'37"	288.57'	561.88'
18	1000.00'	70°42'06"	709.37'	1233.98'
20	2000.00'	53°07'32"	999.90'	1854.44'

LAYOUT

ALTERNATIVE F

SCALE: 1" = 200'

L-2

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

DATE PLOTTED => $DATE

TIME PLOTTED => $TIME

BORDER LAST REVISED 7/2/2010

USERNAME => $USER

DGN FILE => $REQUEST

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 00000000001

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	12.7/16.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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LEGEND:

- CUT/FILL LINE
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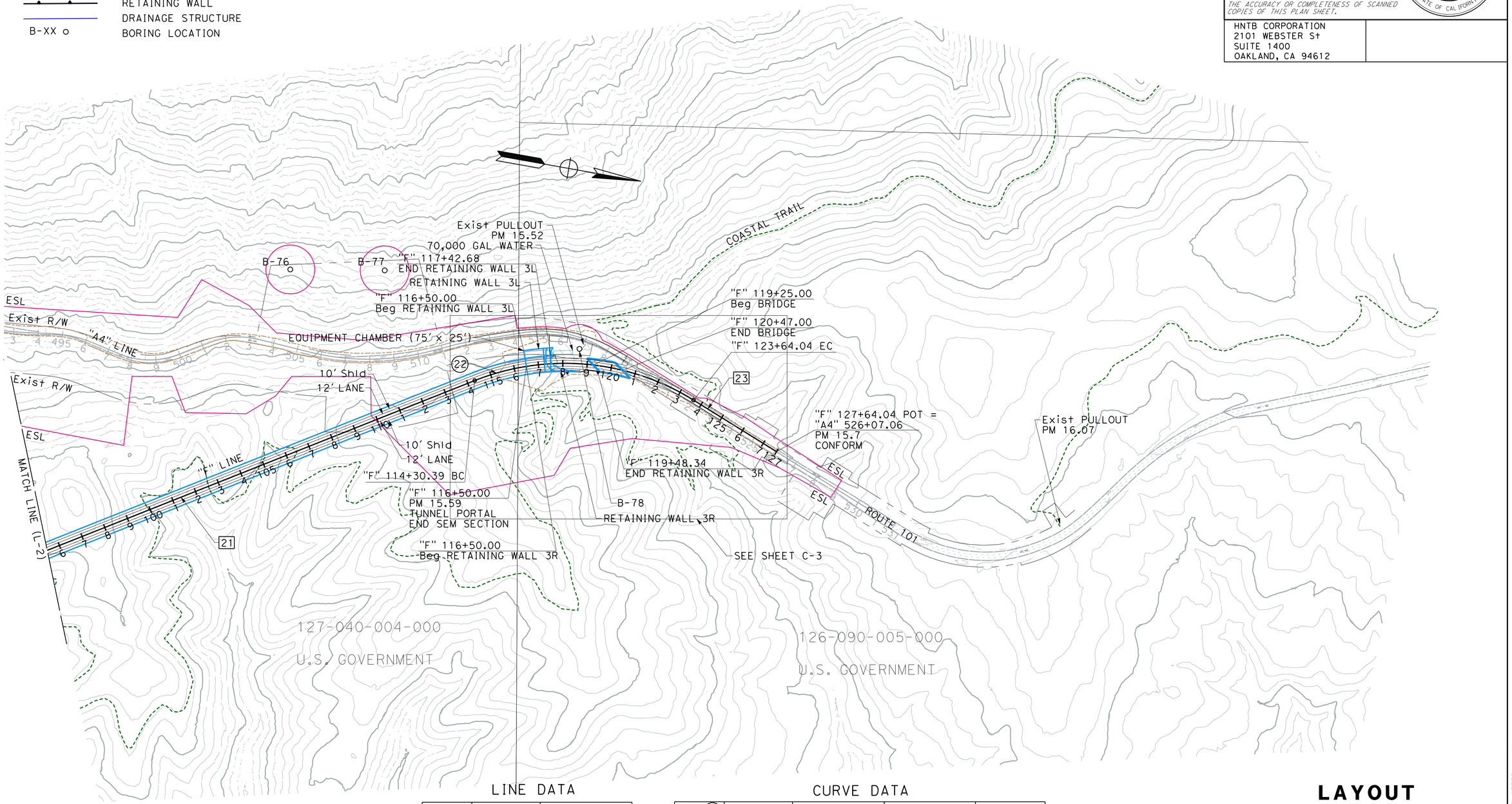


LINE DATA

No. #	LENGTH	DIRECTION
21	3636.31′	N 21°39′03" W
23	400.00′	N 31°50′37" E

CURVE DATA

No. (#)	R	Δ	T	L
22	1000.00′	53°29′40"	503.98′	933.65′

LAYOUT

ALTERNATIVE F

SCALE: 1" = 200′

L-3

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION: DATE PLOTTED => $DATE
00-00-00 TIME PLOTTED => $TIME

BORDER LAST REVISED 7/2/2010 | USERNAME => $USER | DGN FILE => $REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 00000000001

Appendix B. Consultant-prepared Structures APS Checklist

Consultant Prepared Advance Planning Study (APS) Checklist

Date: 2/2/2024	Consultant Firm (for structures): HNTB		Phone No: 212-594-9717
Designed by: Raymond Sandiford			Phone No: 212-594-9717
EA: 01-0F280	County: DN	Rte: 101	KP(PM) 12.0-15.5
Project Description: The Last Chance Grade Project proposes improvements to US Highway 101 located in southern Del Norte County between Wlison Creek and Crescent City.			
Bridge No(s): F-1	Bridge Name(s): F-Alignment tunnel OMC Building		
Total number of bridges in project: 1		APS Alternative Letter or Number (if more than one): 1	
Purpose of this APS:	Initial APS Cost & Feasibility ☒	Revised scope ☐	Update cost ☐

Part A Items to collect and considerations prior to beginning the APS

All items listed in Part A are to be made available and submitted if requested by the Liaison Engineer.
(Mark **N/A** if not applicable)

- ☒ Preliminary profile grade of proposed structure.
- ☒ Typical section of the proposed structure. (Including barrier type, sidewalks, cross slope %, etc.)
- ☒ Grades or spot elevations of roadway below the structure.
- N/A Typical section of roadway below the structure. (Including shoulders, gutters, embankment slope.)
- ☒ Site map: including horizontal alignment of new structure and the roadway below, topo, contours, etc.
- N/A Stage construction or detour plan for traffic on the structure.
  (number of lanes to remain open, Temp Railing, etc.)
- N/A Stage construction or detour plan for the roadway below the structure.
  (falsework openings for each stage and any restrictions.)
- N/A "As Built" plans for existing structures.
- N/A Future widening plans of upper and lower roadway (verify with Route Concept Report).
- ☒ Site aerial photograph (at the proposed structure).
- ☒ Environmental and/or permit requirements (areas of potential impact, construction windows, etc.)
- ☒ Overhead and underground utility plans
- N/A Any other information that you feel is necessary to complete the study. (Other concerns that may affect the APS: local agency requirements such as aesthetics, improvements in vicinity of structure, airspace usage, other obstructions, etc.)

Consultant Prepared Advance Planning Study (APS) Checklist

Part B Considerations during the APS design and cost estimate preparation

1.	Has this project been discussed with:	the OSFP Liaison Engineer?	Yes ☒ No ☐
		the Caltrans District Project Manager?	Yes ☒ No ☐
		the roadway consultant?	Yes ☒ No ☐
2.	Have the Caltrans Structures Maintenance records been reviewed?		Yes ☒ No ☒
	If the records recommend any work for the structure, is it included in the APS?		Yes ☐ No ☒
3.	Are there special aesthetic considerations?		Yes ☒ No ☐
4.	(Widenings and Modifications)		
	Has this project been reviewed for seismic retrofit requirements?		Yes ☒ No ☐
	Are seismic retrofit requirements included in the APS?		Yes ☐ No ☒
5.	Any special Railroad requirements?		Yes No X
	Shoofly required?		Yes ☐ No ☒
	Cost of shoofly included as a separate item in the project cost estimate?		Yes ☐ No ☒
6.	Any special foundation requirements, including scour critical work, special excavation such as Type A, Type D, and/or hazardous or contaminated material?		Yes ☐ No ☒
7.	Any special construction requirements, including limited site accessibility or seasonal work?		Yes ☒ No ☐
8.	Other items to be included in the cost such as slope paving, approach slabs, and/or adjacent retaining walls?		Yes ☒ No ☐
9.	Remove existing bridge? Total Deck Area:		Yes ☐ No ☒
10.	Any other unusual or special requirements?		Yes ☒ No ☐
11.	Provide and attach a consultant prepared Design Memo to summarize and document any important assumptions, discussions, decisions, unusual items, local agency requirements such as aesthetics, improvements in vicinity of the structure, airspace usage, other obstructions, or any items noted above.	Summary attached?	Yes ☒ No ☐

Designer: (Printed Name)	Designer's Signature:	Date:
Raymond E. Sandiford		2/2/2024

Appendix C. Planning Cost Estimates

GENERAL PLAN - ADVANCED PLANNING ESTIMATE

[ ] GENERAL PLAN ESTIMATE [X] ADVANCE PLANNING ESTIMATE

		IN EST:	11/22/2023
		OUT EST:	11/22/2023
BRIDGE NAME:	Alternative F - Tunnel		
BRIDGE NUMBER:	n/a	**DISTRICT:**	01
TYPE:	SEM, Single, Two-Lane Tunnel	**CO:**	DN
EA:	01-0F280	**RTE:**	101
PROJECT ID:	01.1500.0099	**PM:**	12.7/16.5
ACCELERATED BRIDGE PROJECT:	NO	**DEPTH**	n/a
		LENGTH (FT)	6,000' Tunnel & 500' Approach Struct.
DESIGN SECTION:	Consultant	**WIDTH**	66.25' (Average Ht)
# OF STRUCTURES IN PROJECT :	1	**AREA (SF)**	397,500
		EST. NO.	
PRICES BY :	R. Sandiford	**COST INDEX:**	
PRICES CHECKED BY :	J. Kovac	**DATE:**	11/22/2023
QUANTITIES BY:	R. Sandiford	**DATE:**	11/22/2023

	CONTRACT ITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
1	MOBILIZATION/DEMOBILIZATION	Tunnel	LS	1	$ 10,000,000.00	$ 10,000,000
2	SITE PREPARATION	Tunnel	LS	1	$ 5,000,000.00	$ 5,000,000
3	SOUTH APP. STRUCT. - RETAINING WALL 1	Tunnel	SF	4,500	$ 350.00	$ 1,575,000
4	SOUTH APP. STRUCT. - SECANT PILES WALL (INCL. 2L & 2R)	Tunnel	LF	45,486	$ 1,000.00	$ 45,486,000
5	SOUTH APP. STRUCT. - INTERIOR SLABS	Tunnel	CY	10,000	$ 1,500.00	$ 15,000,000
6	SOUTH APP. STRUCT. - FINISHED INTERIOR WALLS	Tunnel	CY	12,500	$ 1,500.00	$ 18,750,000
7	SOUTH APP. STRUCT. - EXCAVATION	Tunnel	CY	281,667	$ 60.00	$ 16,900,020
8	SOUTH APP. STRUCT. - COLLAPSIBLE COLUMNS (INCL. 2L & 2R	Tunnel	LF	107,143	$ 150.00	$ 16,071,450
9	SOUTH PORTAL - ARCH TREATMENT	Tunnel	LS	1	$ 10,000,000.00	$ 10,000,000
10	TUNNEL - SEM MUCKING	Tunnel	CY	737,100	$ 715.00	$ 527,026,500
11	TUNNEL - INITIAL LINING - FLASHCRETE	Tunnel	SF	1,447,875	$ 28.00	$ 40,540,500
12	TUNNEL - ROCK BOLTS	Tunnel	EA	13,406	$ 330.00	$ 4,423,980
13	TUNNEL - WATERPROOFING	Tunnel	SF	965,250	$ 17.00	$ 16,409,250
14	TUNNEL - FINAL LINING	Tunnel	CY	71,500	$ 1,375.00	$ 98,312,500
15	TUNNEL - INTERIOR CONCRETE	Tunnel	CY	29,250	$ 1,375.00	$ 40,218,750
16	NORTH PORTAL - EXCAVATION - ROCK REMOVAL	Tunnel	CY	40,000	$ 150.00	$ 6,000,000
17	NORTH PORTAL - SLOPE STABILIZATION	Tunnel	SF	47,400	$ 50.00	$ 2,370,000
18	NORTH PORTAL - 100' CIP TUNNEL EXTENSION	Tunnel	CY	721	$ 1,500.00	$ 1,081,500
19	NORTH PORTAL - ARCH TREATMENT	Tunnel	LS	1	$ 4,000,000.00	$ 4,000,000
20	GROUND IMPROVEMENT/MITIGATION	Tunnel	LS	1	$ 50,000,000.00	$ 50,000,000
21	ELECTRICAL	Tunnel	LS	1	$ 27,000,000.00	$ 27,000,000
22	MECHANICAL	Tunnel	LS	1	$ 20,000,000.00	$ 20,000,000
23	OMC FACILITY	Tunnel	LS	1	$ 77,000,000.00	$ 77,000,000
24						$ -
25						$ -

Comments:

SUBTOTAL		$ 1,053,165,450
TIME RELATED OVERHEAD		$ -
MOBILIZATION	Included above	$ -
SUBTOTAL BRIDGE ITEMS		$ 1,053,165,450
CONTINGENCIES	30%	$ 315,949,635
BRIDGE TOTAL COST		$ 1,369,115,085
COST PER SQ. FT		$ 3,444
REMOVAL (CONTINGENCIES INCL.)		$ -
WORK BY UTILITY FORCES		$ -
GRAND TOTAL		$ 1,369,115,085
BUDGET ESTIMATE AS OF		**$ 1,369,116,000**

	TYPE	UNIT	QUANTITY
REMOVAL		SQFT	

ESCALATION TO MIDPOINT OF CONSTRUCTION

Year	Escalation	
2023-2024	1.049	$ 1,369,115,085
2024-2025	1.038	$ 1,436,201,724
2025-2026	1.038	$ 1,490,777,390
2026-2033	1.298	$ 1,547,426,930
		$ 2,009,054,071

Appendix D. Construction Working Days

Alignment F-4 - APS Construction Schedule

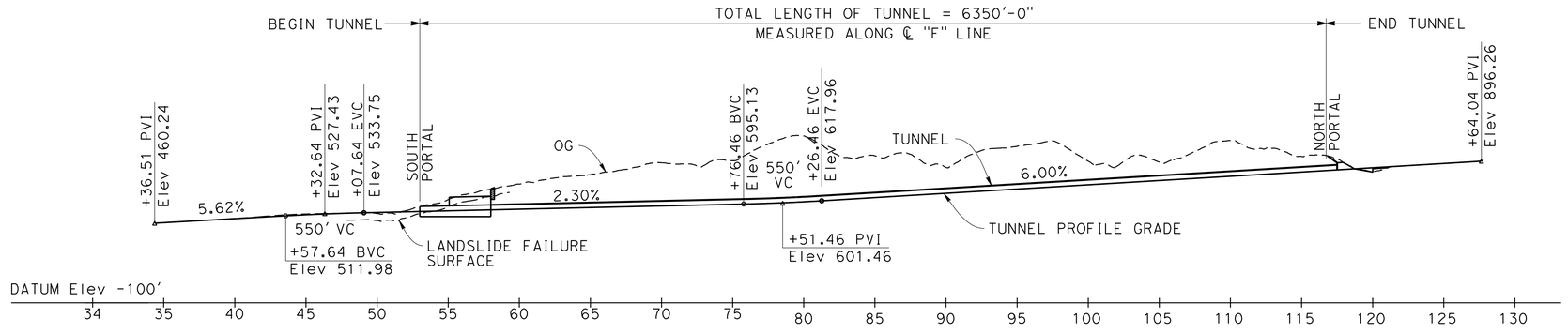
Activity	1				2				3				4				5				6				7			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Mobilization																												
South Approach Structure and Portal																												
North Access Bridge																												
North Portal																												
SEM from South (8ft/Day 580 days)												(9,300 /6ft per day = 775 work days															
SEM from North (8ft/Day 580 days)												(9,300 /6ft per day = 775 work days															
Portal Construction Finishes																												
Roadway and Interior Concrete																												
Mech/Elect/Comms/Lighting																												
Tunnel Commissioning																												
Demobilization																												

Appendix E. Structure APS Plan

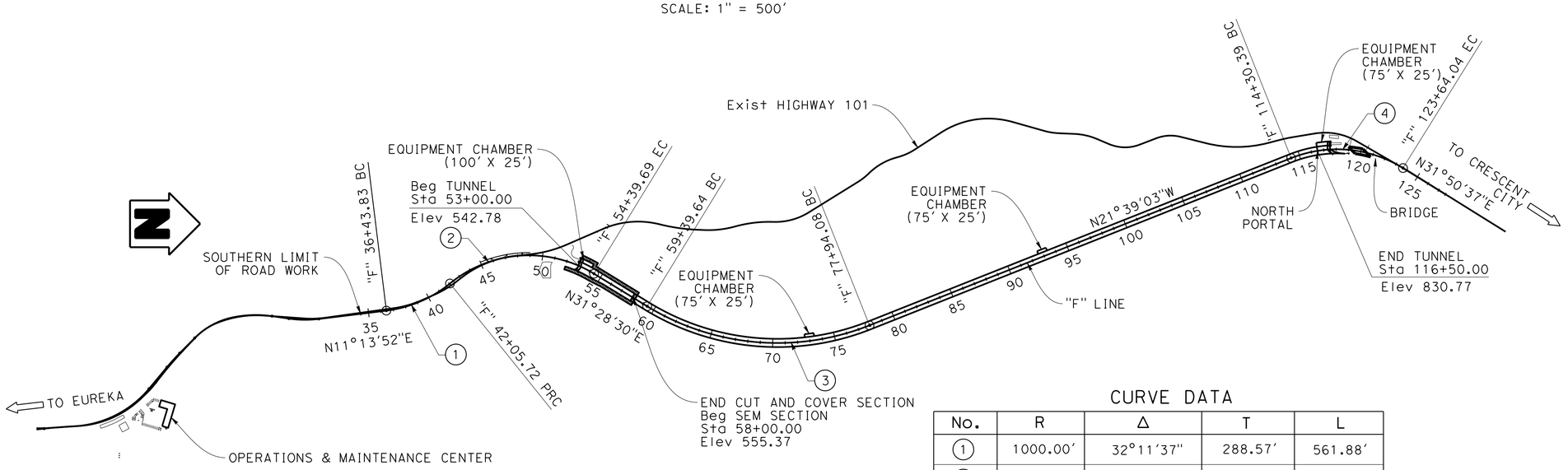
PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
01	DN	101	12.7/16.5

HNTB CORPORATION
2101 WEBSTER St, Ste 1400
OAKLAND, CA 94612



DEVELOPED PROFILE
SCALE: 1" = 500'



PLAN
SCALE: 1" = 500'

CURVE DATA

No.	R	Δ	T	L
1	1000.00'	32°11'37"	288.57'	561.88'
2	1000.00'	70°42'06"	709.37'	1233.98'
3	2000.00'	53°07'32"	999.90'	1854.44'
4	1000.00'	53°29'40"	503.98'	933.65'

NOTES:

1. Linings for sequentially mined tunnel - An initial shotcrete lining of approximately 6 inches thickness (or 12 inches thickness with combination of lattice girders if necessary), temporary rock bolts, a high density polyethylene (HDPE) waterproof lining, and then a final lining of 24 inches of cast-in-place reinforced concrete. Concrete compressive strength - 5,000 psi minimum.
2. Interior concrete will be either cast-in-place concrete or a combination of cast-in-place and precast concrete. Concrete compressive strength - 5,000 psi minimum.
3. Tunnel drains southward to the south portal to a sump pit.

DATE OF ESTIMATE	11-22-2023
BRIDGE REMOVAL	= N/A
STRUCTURE HEIGHT	= 66'-3"
LENGTH	= 6,350'-0"
WIDTH	= 116'-7"
AREA	= 397,500 SF
COST/LF INCLUDING TRO, MOBILIZATION & 30% CONTINGENCY	= $3,312
TOTAL COST	= $1,316,456,813

X
DESIGN OVERSIGHT
X
SIGN OFF DATE

DESIGNED BY	R. SANDIFORD	DATE	11/22/23
DRAWN BY	B. WONG	DATE	11/22/23
CHECKED BY	M. AMINI	DATE	11/22/23
APPROVED	J. LITZINGER	DATE	11/22/23

J. LITZINGER
PROJECT ENGINEER

PLANNING STUDY
LCG ALT F TUNNEL

BRIDGE NO. X	UNIT: X
SCALE: X	PROJECT NUMBER & PHASE: 0115000099

CONTRACT NO.: EA 01-0F280

ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 7/16/10)

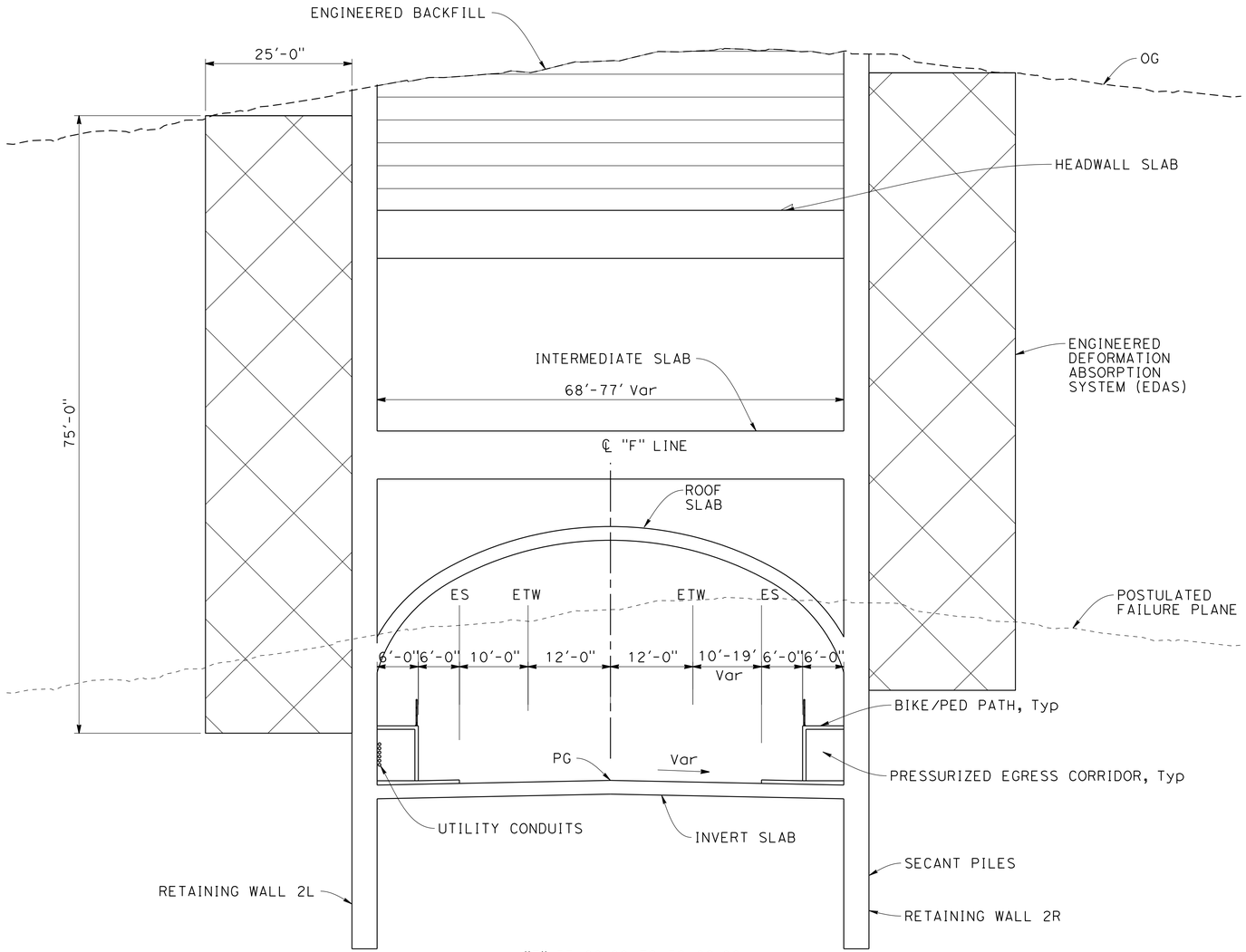
FILE => F1_TUNNEL.dgn

USERNAME => bwong DATE PLOTTED => 2024-01-31 TIME PLOTTED => 15:50:51

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
01	DN	101	12.7/16.5

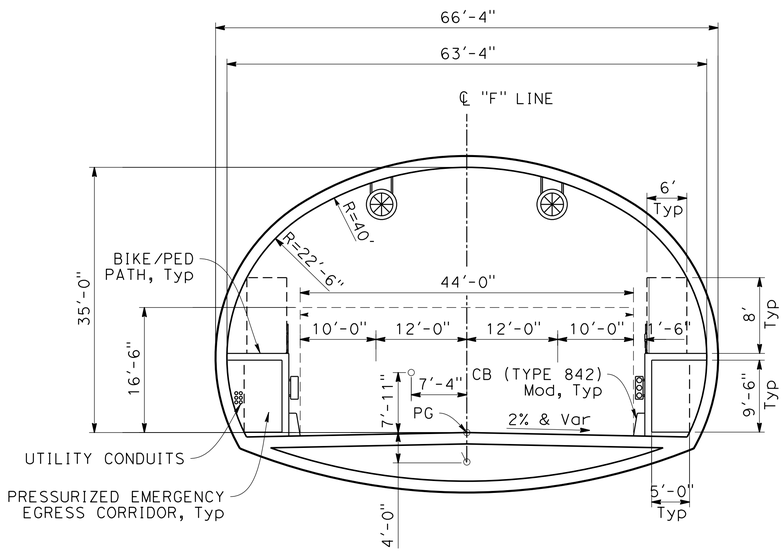
HNTB CORPORATION
2101 WEBSTER St, Ste 1400
OAKLAND, CA 94612



"F" 53+00.00 TO 58+00.00

CUT AND COVER / ENGINEERED DEFORMATION ABSORPTION SYSTEM

SCALE: 1" = 10'



"F" 58+00.00 TO 116+50.00

TUNNEL - SEM SECTION

SCALE: 1" = 10'

X
DESIGN OVERSIGHT

X
SIGN OFF DATE

DESIGNED BY	R. SANDIFORD	DATE	11/22/23
DRAWN BY	B. WONG	DATE	11/22/23
CHECKED BY	M. AMINI	DATE	11/22/23
APPROVED	J. LITZINGER	DATE	11/22/23

J. LITZINGER
PROJECT ENGINEER

PLANNING STUDY

TUNNEL TYPICAL SECTIONS

BRIDGE NO. X	UNIT: X
SCALE: X	PROJECT NUMBER & PHASE: 0115000099

USERNAME => bwong DATE PLOTTED => 2024-01-31 TIME PLOTTED => 15:53:00

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
01	DN	101	12.7/16.5

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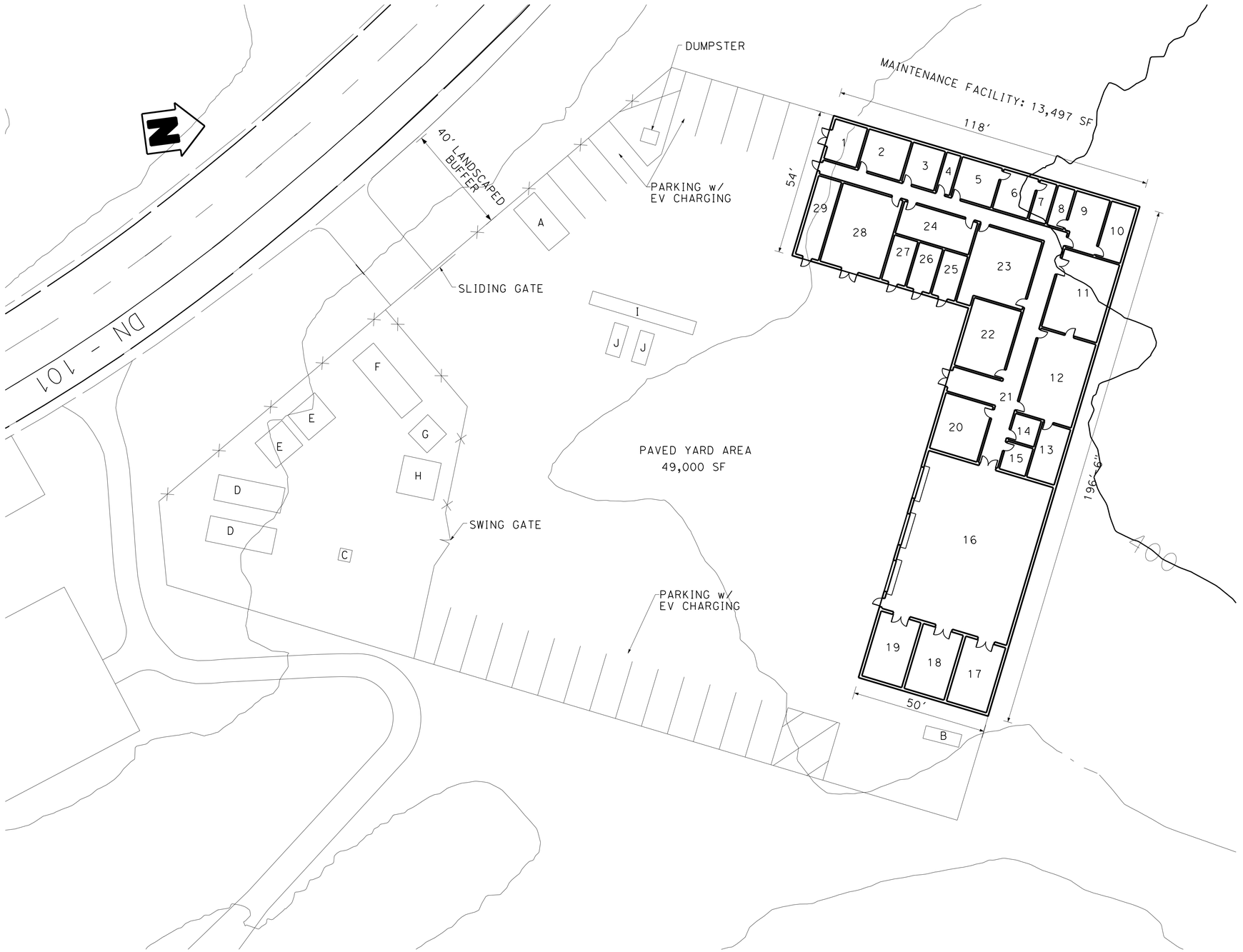
2101 WEBSTER St, Ste 1400
OAKLAND, CA 94612



PLAN
SCALE: 1" = 20'

OMC BUILDING

No.	DESCRIPTION	AREA
1	Hazmat Storage	187
2	Small Part Storage	248
3	Lamp Storage	187
4	Janitor's Closet	81
5	Women's Locker Room	233
6	Women's Restroom	202
7	Women's Shower	96
8	Men's Shower	96
9	Men's Locker Room	261
10	Men's Restroom	201
11	Comm/Server Room	635
12	Control Room	681
13	Conference Room	226
14	Shift Supervisor Room	99
15	Office Supply Room	106
16	Equip Storage Bays	2920
17	Electric Workshop	383
18	Electronic Workshop	383
19	Machine/Weld Workshop	383
20	Crew Office	388
21	Corridor	1305
22	Breakroom/Kitchen	472
23	HVAC/Equip Room	654
24	Electrical Room	347
25	Cone/Barrier Storage	154
26	Soap Storage	154
27	Fuses/Flares Storage	154
28	Misc Elect Storage	694
29	Fire Exting Storage	266

UTILITIES

No.	DESCRIPTION
A	15,000 gal Domestic Water
B	1,500 gal Propane
C	12.47 kV Junction Boxes
D	(2) 2.5 MW Diesel Generators
E	(2) 5,200 gal Diesel Tanks
F	Generator Paralleling Switchgear
G	480/277 V 3-phase Transformer
H	Generator Stepup Transformer
I	Fuel Island
J	(2) 2,000 gal Tanks (Diesel, Unld)
See Sht C-1	3,000 gal Septic Holding Tank - at Parking Lot
See Sht D-1	New PacifiCorp Substation - 1300' south of portal

DATE OF ESTIMATE 11-22-2023

BRIDGE REMOVAL = N/A

STRUCTURE HEIGHT = 12'-0"

LENGTH = 196'-6"

WIDTH = 118'-0"

AREA = 13,497 SF

COST/LF INCLUDING TRO, MOBILIZATION & 30% CONTINGENCY = $5,705

TOTAL COST = $77,000,000

X
DESIGN OVERSIGHT

X
SIGN OFF DATE

DESIGNED BY	J. HARDER	DATE	11/22/23
DRAWN BY	J. TRAUTMANN	DATE	11/22/23
CHECKED BY	M. AMINI	DATE	11/22/23
APPROVED	J. LITZINGER	DATE	11/22/23

J. LITZINGER
PROJECT ENGINEER

PLANNING STUDY

LCG ALT F OMC

BRIDGE NO. X	UNIT: X
SCALE: X	PROJECT NUMBER & PHASE: 0115000099

USERNAME => bwong DATE PLOTTED => 2023-11-30 TIME PLOTTED => 9:17:48