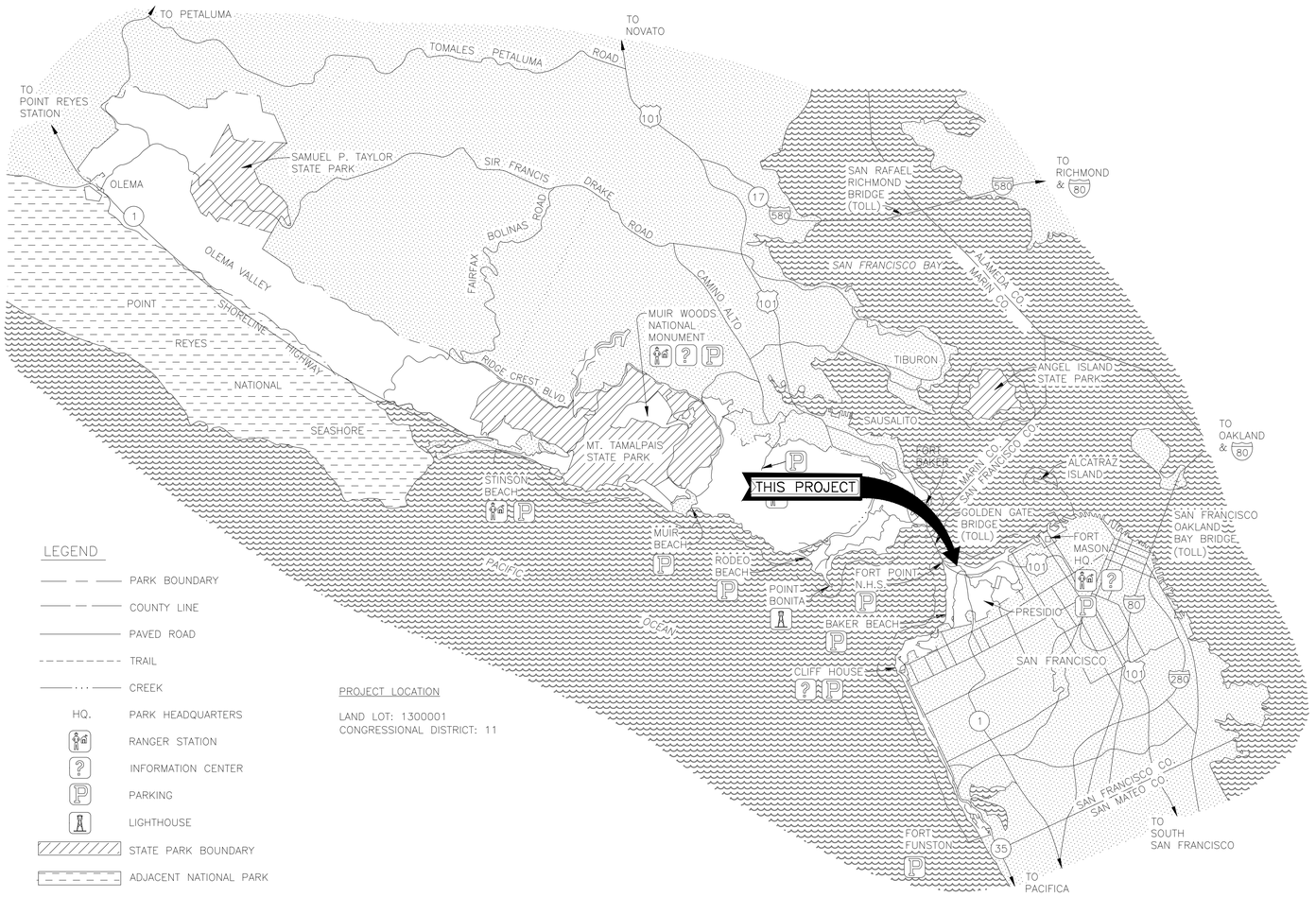
PRESIDIO OF SAN FRANCISCO
LONG AVENUE RECONSTRUCTION PROJECT
SAN FRANCISCO, CALIFORNIA

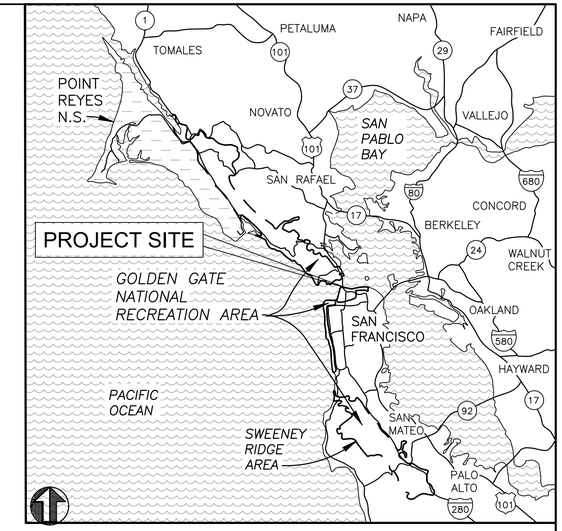


LEGEND

- PARK BOUNDARY
- COUNTY LINE
- PAVED ROAD
- TRAIL
- CREEK
- HQ. PARK HEADQUARTERS
- RANGER STATION
- INFORMATION CENTER
- PARKING
- LIGHTHOUSE
- STATE PARK BOUNDARY
- ADJACENT NATIONAL PARK

PROJECT LOCATION

LAND LOT: 1300001
CONGRESSIONAL DISTRICT: 11



VICINITY MAP

INDEX OF DRAWINGS

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		COVER SHEET
1	G1	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
2	C1	PROJECT OVERVIEW
3	C2	DEMOLITION PLAN, SHEET 1 OF 2
4	C3	DEMOLITION PLAN, SHEET 2 OF 2
5	C4	PLAZA AREA LAYOUT
6	C5	PLAZA AREA PAVING AND GRADING PLAN
7	C6	PAVING AND GRADING DETAILS, SHEET 1 OF 2
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10	C9	ROADWAY PLAN AND PROFILE, SHEET 1 OF 2
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12	C11	ROADWAY CROSS SECTIONS
13	C12	STANDARD DETAILS, SHEET 1 OF 3
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15	C14	STANDARD DETAILS, SHEET 3 OF 3
16	C15	SIGNAGE AND PAVEMENT MARKING DETAILS
17	C16	TREE, FENCEPOST, AND DRAINAGE CHANNEL TABLES
18	C17	EXISTING DRAINAGE CHANNEL CONDITION PHOTOGRAPHS

PROJ. NO. 186401

MARK	SHEET	REVISION	DATE	INITIAL

A/E FIRM - A/E CONTRACT NUMBER

CONSTRUCTION DRAWINGS

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
DENVER SERVICE CENTER

TITLE OF DRAWING
LONG AVENUE
LOCATION WITHIN PARK
PRESIDIO OF SAN FRANCISCO
NAME OF PARK
GOLDEN GATE NATIONAL RECREATIONAL AREA

REGION: PACIFIC | COUNTY: SAN FRANCISCO | STATE: CALIFORNIA

DRAWING NO. 641 187495
PKG. NO. 186401
SHEET 1 OF 16

Jul 23, 2025 – 10:44pm
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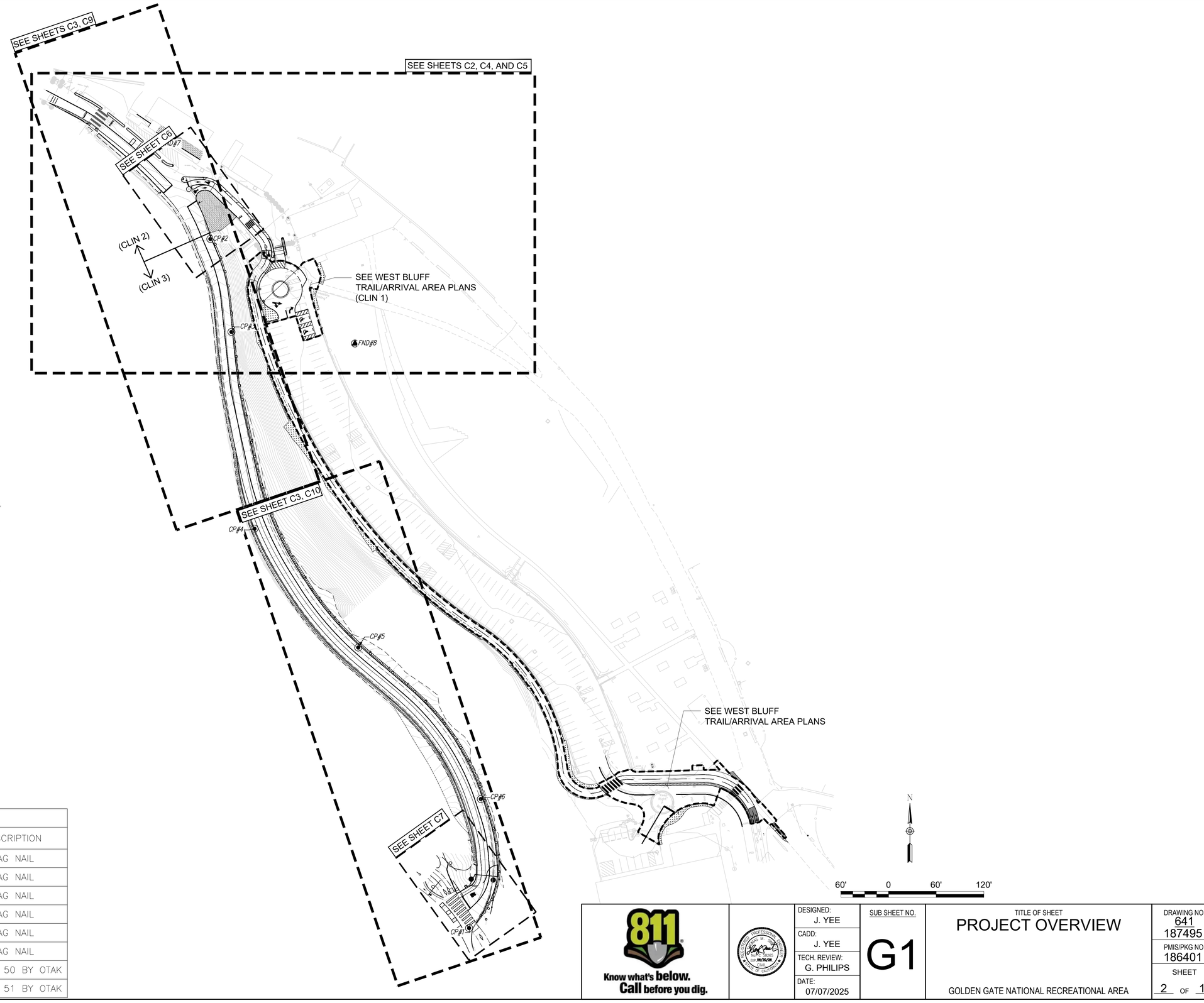

NOTES:

1. HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF 1983 (2011), CALIFORNIA COORDINATE SYSTEM ZONE 3, EPOCH 2010.00, PER ADJOINING SURVEY PERFORMED BY OTAK, INC. (OTAK) ON 12/10/22. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES.

2. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER THE ABOVEREFERENCED OTAK, SURVEY. BENCHMARK IS AECOM FOUND POINT 7 (FND#7), ALSO BEING OTAK CONTROL POINT 50, HAVING AN ELEVATION OF 14.48 FEET.

3. SURVEY DATES: AUGUST 29-30, 2024.

SYMBOLS:

- ● = BOLLARD
- (C) = COMMUNICATION MANHOLE
- (SS) = SANITARY SEWER MANHOLE
- —o— = SIGN - SINGLE POST
- SDI = STORM DRAIN AREA DRAIN SQUARE
- (SD) = STORM DRAIN MANHOLE
- (MH) = UTILITY MANHOLE
- WV = WATER VALVE

CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2121883.132	5992575.906	87.574	MAG NAIL
2	2122751.430	5992250.061	21.678	MAG NAIL
3	2122634.280	5992276.638	29.570	MAG NAIL
4	2122386.397	5992305.649	44.888	MAG NAIL
5	2122236.644	5992436.279	58.570	MAG NAIL
6	2122045.733	5992590.749	75.397	MAG NAIL
7	2122871.459	5992184.945	14.480	FND PT 50 BY OTAK
8	2122619.749	5992432.211	26.248	FND PT 51 BY OTAK

811 Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. G1

TITLE OF SHEET
PROJECT OVERVIEW

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 2 OF 19

Jul 23, 2025 – 10:44pm
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GENERAL NOTES

1. PROJECT COORDINATES ARE CALIFORNIA STATE PLANE, ZONE 3, NAD83(2011) BASED ON CONTROL POINTS IN DRAWING GGN1601_XTOPO_13-110 CRISSY, SUPPLIED BY NPS. PROJECT ELEVATIONS ARE NAVD88, BASED ON CONTROL SUPPLIED BY NPS IN ABOVE DRAWING.

   SURVEY DATES: AUGUST 29 & 30, 2024.

2. CONTRACTOR TO SUPPLY AND INSTALL ALL APPURTENANCES NECESSARY TO COMPLETE CONSTRUCTION.

3. CONTRACTOR SHALL OBTAIN CLEARANCE FROM NPS 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION.

4. THE CONTRACTOR SHALL MARK ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING LANDLORD. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE THE SERVICES OF A UTILITY LOCATOR TO FIND AND LOCATE ALL KNOWN UTILITIES IN THE AREA; IT WILL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO TRENCH WITH CAUTION, ANY LIVE UTILITIES HIT DURING CONSTRUCTION WILL THE RESPONSIBILITY OF OWNER TO REPAIR.

5. THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE CONSTRUCTION OF THE NEW IMPROVEMENTS CONNECTING TO OR IN THE VICINITY OF SAME.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES, MONUMENTS, OTHER SURVEY MARKERS, STREET SIGNS, AND ANY OTHER IMPORTANT OBJECTS ON THE JOB SITE.

7. ALL EROSION CONTROL SHALL BE PLACED AS SPECIFIED ON THESE PLANS OR AS DETERMINED BY THE ENGINEER.

8. CONTRACTOR TO LAYOUT ALL UTILITIES AND ASSOCIATED STRUCTURES PRIOR TO COMMENCING EXCAVATION AND NOTIFY ENGINEER OF ANY CONFLICTS.

9. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF ANY UNDERGROUND UTILITY SHOWN ON THE DRAWINGS IS NOT WARRANTED. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR SUB-SURFACE CONDITIONS.

10. CONTRACTOR RESPONSIBLE FOR SEQUENCING OF WORK TO AVOID CONFLICTS.

11. CONTRACTOR RESPONSIBLE TO ENSURE EROSION CONTROL AND TRAFFIC CONTROL BARRICADES AND SIGNAGE ARE ERECTED AND IN-PLACE AT THE END OF EACH WORK DAY

EROSION CONTROL NOTES.

1. EROSION CONTROL MEASURES SHALL CONSIST OF BEST MANAGEMENT PRACTICES (BMPS) FOR STORM WATER DISCHARGES, INCLUDING SILT FENCING, BARRIER PROTECTORS, STRAW BALES, TEMPORARY SOIL RETENTION BLANKETS, EXCELSIOR DRAINAGE FILTERS, SEDIMENT TRAPS AND BERMS.

2. BERMS AND EXCELSIOR DRAINAGE FILTERS SHALL BE USED TO FORM SEDIMENT TRAPS AND CONTROL RUN-ON AND RUN-OFF INTO OTHER AREAS, INCLUDING ACCESS ROADS AND STAGING AREAS.

3. EROSION CONTROL MEASURES SHALL BE USED TO CONTAIN ONLY DIRECT PRECIPITATION IN CONSTRUCTION ZONE. CONTAINED WATER SHALL BE ALLOWED TO PERCOLATE INTO GROUND OR DRAIN SLOWLY THROUGH DRAINAGE FILTER SEDIMENT TRAPS.

4. EARTHEN SEDIMENT TRAPS OR HOLDING PONDS SHALL NOT BE USED UNLESS ACCEPTED BY CONTRACTING OFFICER.

5. REDUCE RUNOFF VELOCITY AND DIRECT SURFACE RUNOFF AROUND AND AWAY FROM FUEL CONTAINMENT, STORAGE, AND BORROW AREAS.

6. DIVERT SURFACE RUNOFF AROUND AND AWAY FROM CUT AND FILL SLOPES.

7. PLACE DRAINAGE FILTERS AROUND CATCH BASINS TO CREATE SEDIMENT TRAPS TO CONTROL RUN-OFF FROM CONSTRUCTION AREA.

8. EXCESS WATER USED FOR DUST CONTROL SHALL BE CONTAINED WITHIN DEMOLITION AREAS BY EROSION CONTROL MEASURES.

9. CONTRACTOR SHALL PREVENT DEPOSITION OF MATERIALS ONTO PAVED AREAS. CONTRACTOR SHALL INSPECT PAVED AREAS FOR DEPOSITED MATERIALS WEEKLY AND REMOVE MATERIALS IMMEDIATELY.

10. FURNISH, INSTALL, MAINTAIN, AND OPERATE NECESSARY CONTROL MEASURES AND OTHER EQUIPMENT NECESSARY TO PREVENT EROSION AS DESCRIBED IN APPROVED UNDER-AN-ACRE POLLUTION PREVENTION PLAN (UPPP).

11. BEFORE WORK BEGINS, SUFFICIENT EQUIPMENT SHALL BE AVAILABLE ON SITE TO ASSURE OPERATION AND ADEQUACY OF EROSION CONTROL SYSTEM CAN BE MAINTAINED.

ABBREVIATIONS:

AC	ASPHALTIC CONCRETE
APPROX.	APPROXIMATE
AWG	AMERICAN WIRE GAUGE
BC	BOTTOM OF CURB
BMP	BEST MANAGEMENT PRACTICE
BLDG	BUILDING
BOC	BACK OF CURB
BS	BOTTOM OF STEP
C	CONDUIT
CB	CATCH BASIN
CLIN	CONTRACT LINE ITEM NUMBER
COMM	COMMUNICATIONS
CONC	CONCRETE
CONT.	CONTINUOUS
CP	CONTROL POINT
CPPL	CORREGATED PLASTIC PIPE LINED
C&G	CURB & GUTTER
DEC	DECIDUOUS
DIA	DIAMETER
DWP	DETECTABLE WARNING PAD
ELEV	ELEVATION
(E)	EXISTING
EOP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOWLINE (OF CURB)
FOC	FRONT OF CURB
G	GUTTER
HDPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
ME	MATCH EXISTING
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
(N)	NEW
O.C.	ON CENTER
PED	PEDESTRIAN
SD	STORM DRAIN
SS	STAINLESS STEEL
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
TC	TOP OF CURB
TS	TOP OF STEP
TYP	TYPICAL
UNK	UNKNOWN
UPPP	UNDER-AN-ACRE POLLUTION PREVENTION PLAN

SYMBOLS

△	SURVEY CONTROL POINT
●	FOUND EXISTING MONUMENT
◯	SEWER MANHOLE
○—	SEWER CLEAN OUT
◯	STORM MANHOLE
▥	CATCH BASIN
∽	LINE CONTINUES
	FIRE HYDRANT
⋈	WATER VALVE
Ⓜ	WATER METER
HB	HOSE BIB
ICV	IRRIGATION CONTROL VALVE
—○—	UTILITY POLE
	LIGHT POLE
←—	GUY ANCHOR
Ⓜ	ELECTRIC METER
Ⓙ	ELECTRIC JUNCTION BOX
◯	COMMUNICATION MANHOLE
Ⓙ	COMMUNICATION JUNCTION BOX
	SIGN
•	BOLLARD
TC	TRASH CAN
BBQ	COOKING GRILL
	PICNIC TABLE
	HANDICAPPED PARKING
	BIKE LANE
	DECIDUOUS TREE
S S	UNDERGROUND SEWER LINE
SD	UNDERGROUND STORM LINE
W	UNDERGROUND WATER LINE
UE	UNDERGROUND ELECTRIC LINE
UT	UNDERGROUND PHONE LINE
G	UNDERGROUND NATURAL GAS LINE
o	FENCE LINE
OHL	OVERHEAD UTILITY LINE
SD / SD	CULVERT (VARIOUS SIZES)
	BRUSH LINE
	ROCK OUTCROPPING
	ROCK OUTCROPPING
50	MAJOR (5') CONTOUR LINE WITH ELEVATION
51	MINOR (1') CONTOUR LINE WITH ELEVATION

Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C1

TITLE OF SHEET
GENERAL NOTES, ABBREVIATIONS, AND LEGEND

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO.	641 187495
PMIS/PKG NO.	186401
SHEET	3 OF 19

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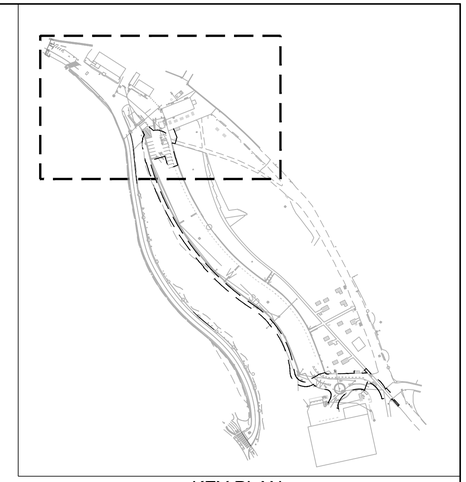

KEY PLAN

PROTECT (E) SWING SWING GATES

REMOVE AND SALVAGE (E) WHEEL STOPS

PROTECT-IN-PLACE (E) COMM MH

PROTECT-IN-PLACE (E) BENCHES

PROTECT-IN-PLACE (E) INFORMATIONAL SIGN

REMOVE (E) BRICK SURFACING

PROTECT (E) CONCRETE LANDING

PROTECT (E) BRICK SURFACING

REMOVE (E) GUARDRAILS AND POSTS

PROTECT-IN-PLACE (E) POLE

PROTECT-IN-PLACE (E) MONUMENT (BRASS CAP) AND SURROUNDING PAVEMENT/BRICKS

PROTECT-IN-PLACE (E) FH

PROTECT-IN-PLACE (E) 6" CONCRETE WALL

SALVAGE AND REINSTALL (E) TRASH RECEPTACLE

SAWCUT (E) PAVEMENT

PROTECT (E) BOLLARDS (TYP)

REMOVE AND REPLACE (E) GATE LOOPS

PROTECT-IN-PLACE (E) SD INLET

REMOVE (E) CONCRETE ISLAND, VEHICLE GATES AND KEY-PAD/SUPPORT ARMS (SALVAGE ONE GATE OPERATOR AND RETURN ONE TO NPS AND SALVAGE BOTH KEY-PADS FOR REINSTALLATION ON NEW SUPPORT ARMS)

PROTECT (E) BOLLARDS (TYP)

REMOVE (E) BOLLARDS

(CLIN 1)

(CLIN 1) LIMITS OF WORK

SALVAGE AND RESET (E) CONCRETE WHEEL STOPS ON AND ALONG EDGE OF PAVEMENT

SALVAGE (E) SPEED LIMIT (R2-1) AND "NARROW ROAD" SIGN PANELS AND RESET ONTO POSTS AT (N) SIGN POST LOCATION

PROTECT-IN-PLACE (E) SSMH

SALVAGE (E) STOP (R1-1) AND NO RIGHT TURN (R3-1) SIGN BLADES AND RESET ONTO POSTS AT (N) SIGN POST LOCATION

REMOVE (E) WHEEL STOPS

PROTECT (E) BUILDING, RAMPS, DUMPSTER ENCLOSURE, AND BOLLARDS IN NON-SHADED AREAS

NOTES:
1. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

LEGEND

- GRIND AND OVERLAY (E) ASPHALT
- REMOVE (E) ASPHALT
- STRIP (E) TOPSOIL
- REMOVE (E) VEGETATION
- REMOVE AND REPLACE (E) DRAINAGE CHANNEL
- (E) CONCRETE
- (E) BRICK

N

20' 0 20' 40'

PLAN

Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C2

TITLE OF SHEET
DEMOLITION PLAN
SHEET 1 OF 2
CLIN 2

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 4 OF 19

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"ROAD CLOSED" SIGN (MUTCD R11-2)
"DETOUR" SIGN WITH ARROW POINTING EASTERLY (MUTCD M4-10)
PROJECT IDENTIFICATION SIGN

LOCATE BARRICADES ALONG EDGE OF EXISTING CROSSWALK AND MOUNT TEMPORARY SIGNS

END OF (E) GUARDRAIL

PROTECT (E) MH

REMOVE (E) GUARDRAIL

END OF (E) GUARDRAIL

(CLIN 2) (CLIN 3)

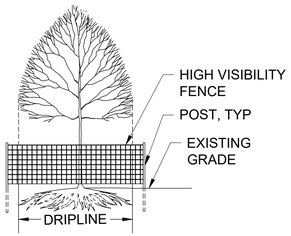
0+00.00 0+50.00 1+00.00 1+50.00 2+00.00 2+50.00 3+00.00 3+50.00 4+00.00

(E) EOP

REMOVE AND REPLACE (E) FENCE

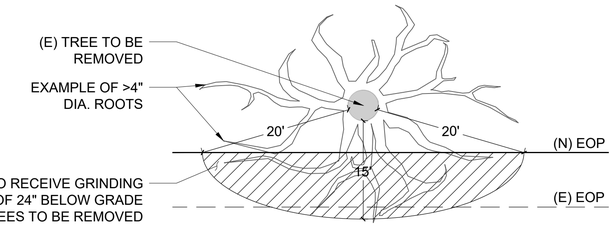
MATCH LINE STA A-A

NOTES:
1. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

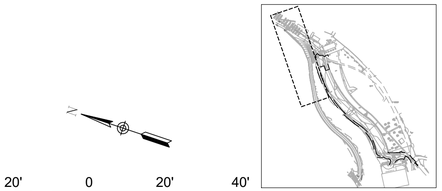


NOTES:
1. PROTECTION FENCING SHALL BE PLACED AT CANOPY DRIPLINE.
2. EXISTING ROOT ZONES SHALL BE PROTECTED DURING CONSTRUCTION.

TREE PROTECTION FENCING
NTS
1 / C3



TYPICAL EXTENT OF ROOT GRINDING
NTS
2 / C3



PLAN

APPROXIMATE LOCATION OF EXPOSED VCP (TO BE PROTECTED)

MATCH LINE STA A-A

4+00.00 4+50.00 5+00.00 5+50.00 6+00.00 6+50.00 7+00.00 7+50.00 8+00.00 8+50.00 9+00.00 9+50.00 9+83.78

PROTECT (E) MH

(E) EOP

REMOVE AND REPLACE (E) FENCE

END OF (E) POST AND CABLE FENCE REMOVAL

END OF (E) GUARDRAIL

END OF (E) POST AND CABLE FENCE REMOVAL

REMOVE (E) GUARDRAIL

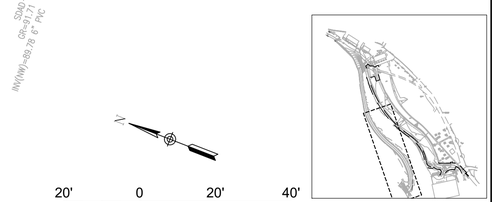
PROTECT (E) MH

END OF (E) GUARDRAIL

LOCATE BARRICADES ALONG EDGE OF EXISTING CROSSWALK AND MOUNT TEMPORARY SIGNS

"ROAD CLOSED" SIGN (MUTCD R11-2)
"DETOUR" SIGN WITH ARROW POINTING EASTERLY (MUTCD M4-10)
PROJECT IDENTIFICATION SIGN

8 / C14 SAWCUT LINE AND PAVEMENT TRANSITION



PLAN

LEGEND

- GRIND AND OVERLAY (E) ASPHALT
- REMOVE (E) ASPHALT
- CLEARING & GRUBBING
- REMOVE (E) DRAINAGE CHANNEL
- STRIP (E) TOPSOIL AND STOCKPILE FOR FUTURE US
- (E) FENCE
- (E) GUARDRAIL
- (E) WOODEN FENCE
- (E) TREE TO BE PROTECTED-IN-PLACE
- (E) TREE TO BE REMOVED, SEE DETAIL 2/C3
- (E) TREE LOCATION NUMBER, SEE SHEET C15
- A (E) DRAINAGE CHANNEL PHOTOGRAPH LABEL, SEE SHEET C17

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DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C3

TITLE OF SHEET
DEMOLITION PLAN
SHEET 2 OF 2
CLIN 3

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 5 OF 19

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(N) THERMOPLASTIC RUMBLE BARS

C1 (TYP)

1 C15 (N) CROSSWALK STRIPING

REPLACE (E) BRICK WITH ASPHALT PAVEMENT

3 C14 (N) FLUSH CURB

GRADE (E) VEGETATED/EARTH TO ACHIEVE A 4" MAX DROP FROM ADJACENT (E) CONCRETE WALKWAY

NO PARKING STRIPING WITH 3' INTERIOR STRIPING SPACING — 12 C15

3 C14 (N) FLUSH CURB

4 C13 (N) PLASTIC BOLLARD

VERTICAL CURB AND RAISED ISLANDS — 2 C14, 3 C14

CONTRACTOR TO PROTECT (E) EXPOSED BRICK DURING PAVING OPERATIONS

INSTALL (N) STOP SIGN, MUTCD R1-1

(N) THERMOPLASTIC RUMBLE BARS

12 C15 NO PARKING STRIPING WITH 5' INTERIOR STRIPING SPACING

(N) CONCRETE MEDIAN ISLAND (TYP)

RESET (E) CONCRETE WHEEL STOPS ON AND ALONG EDGE OF PAVEMENT (TYP)

LANE LINE — 11 C15

NO EXIT/NO PARKING SIGN, MUTCD R26 (CA)

INSTALL (N) STOP SIGN, MUTCD R1-1
SIGNPOST TO BE INSTALLED IN (N) DRAINAGE CHANNEL AND POST LENGTH TO BE ADJUSTED SO THAT THE SIGNBLADE IS ABOVE ADJACENT EOP AS SHOWN ON DETAIL 4/C15

STOP BAR — 3 C15

8 C15 (N) BIKE/PED CROSSING PAVEMENT MARKING

1 C8 ACCESS CONTROL ARM IMPROVEMENTS AND CURBING

INSTALL SALVAGED STOP (R1-1) AND NO RIGHT TURN (R3-1) SIGN BLADES ON (N) SIGN POST

(N) DOUBLE YELLOW CENTERLINE STRIPING — 10 C15

4 C13 (N) PLASTIC BOLLARD

RELOCATED VEHICULAR GATE

RELOCATED CARD READER KEY PAD AND NEW PEDESTAL CONTRACTOR TO LOCATE AND AVOID (E) WATER LINE

(CLIN 1) LIMITS OF WORK

(CLIN 1)

(CLIN 2)

(CLIN 3)

Exposed Waterline

Conc. Seawall

Conc. Seawall

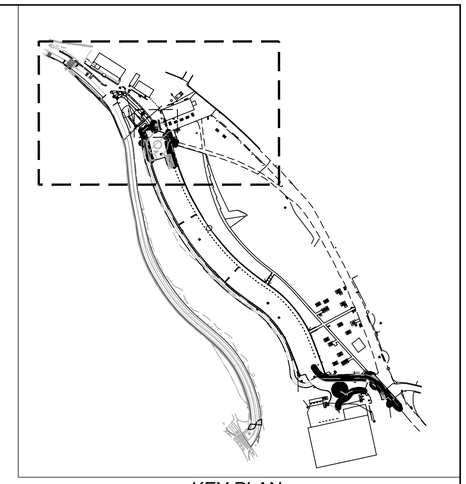
#701

Plaque

"Accessible Parking"

#51 FND#8

CP#3



KEY PLAN

NOTES:
1. ALL DIMENSIONS ARE MEASURED TO FOC, AND CENTER OF PAVEMENT LINES AND CURVE RADII ARE MEASURED TO BOC.
2. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

LEGEND

PLANTED AREA TO BE DECOMPACTED, COVERED WITH SALVAGED TOPSOIL AND SEEDED WITH NPS-PROVIDED SEED. INSTALL EROSION CONTROL BLANKET AND FIBER ROLLS AT TOP, MIDDLE AND BOTTOM

(N) AC PAVEMENT (2" GRIND AND OVERLAY)

(E) BRICK TO BE PROTECTED-IN-PLACE

CURVE TABLE			
Curve #	Length	Radius	Delta
C1	3.14'	1.00'	179°59'49"
C4	24.09'	525.35'	002°37'39"
C5	24.05'	523.35'	002°37'58"
C6	24.01'	699.64'	001°57'59"
C7	23.94'	697.64'	001°57'59"
C8	11.76'	15.50'	043°27'40"
C9	13.27'	17.50'	043°27'40"
C10	9.69'	3.24'	171°28'24"
C11	4.76'	9.50'	028°40'44"
C12	19.03'	41.50'	026°16'25"
C13	3.68'	2.00'	105°30'56"
C14	3.16'	2.00'	090°38'35"
C15	8.38'	19.50'	024°37'22"
C16	12.97'	34.50'	021°32'31"

CURVE TABLE			
Curve #	Length	Radius	Delta
C17	1.76'	0.60'	168°12'35"
C18	44.48'	272.27'	009°21'35"
C20	14.37'	12.52'	065°47'42"
C21	22.10'	32.19'	039°19'52"
C22	24.22'	35.19'	039°26'33"
C23	9.93'	100.00'	005°41'15"
C24	9.93'	100.00'	005°41'15"
C25	7.88'	30.00'	015°03'30"
C26	9.49'	36.00'	015°06'34"
C27	10.30'	39.00'	015°07'50"
C28	8.59'	30.00'	016°24'33"
C29	19.18'	36.50'	030°06'04"
C30	9.06'	38.50'	013°28'33"

Line Table		
Line #	Length	Delta
L3	25.00'	N51°51'W
L4	25.00'	N51°51'W
L1	20.54'	N62°17'W
L2	20.51'	S62°17'E

N

20' 0 20' 40'

PLAN

811 Know what's below. Call before you dig.

DESIGNED: J. YEE
CADD: J. YEE
TECH. REVIEW: G. PHILIPS
DATE: 07/07/2025

SUB SHEET NO. C4

TITLE OF SHEET
PLAZA AREA LAYOUT
CLIN 2

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 6 OF 19

Jul 23, 2025 - 10:45pm
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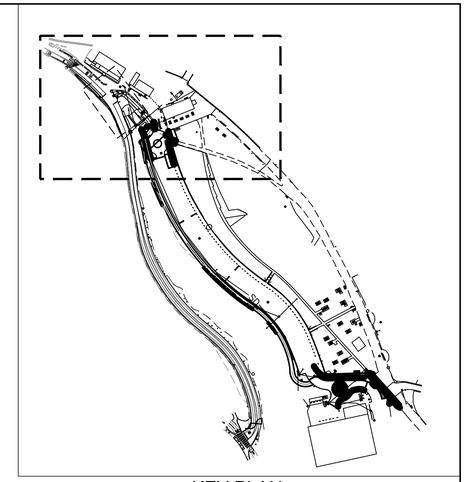

KEY PLAN

ENLARGED VIEW, SEE SHEET C6

PLANTED AREA TO BE DECOMPACTED, COVERED WITH SALVAGED TOPSOIL AND SEEDED WITH NPS-PROVIDED SEED AND EROSION CONTROL BLANKET AND FIBER ROLLS AT TOP, MIDDLE AND BOTTOM

PLANTED AREA TO BE DECOMPACTED, COVERED WITH SALVAGED TOPSOIL AND SEEDED WITH NPS-PROVIDED SEED. INSTALL EROSION CONTROL BLANKET AND FIBER ROLLS AT TOP, MIDDLE AND BOTTOM

(CLIN 1)

(CLIN 1) LIMITS OF WORK

(CLIN 2)

(CLIN 3)

NOTES:
1. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

LEGEND

X.XX% FLOW ARROW

PLANTED AREA TO BE DECOMPACTED, COVERED WITH SALVAGED TOPSOIL AND SEEDED WITH NPS-PROVIDED SEED. INSTALL EROSION CONTROL BLANKET AND FIBER ROLLS AT TOP, MIDDLE AND BOTTOM

(E) BRICK

N

20' 0 20' 40'

PLAN

Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C5

TITLE OF SHEET
PLAZA AREA PAVING AND GRADING PLAN
CLIN 2

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 7 OF 19

Jul 23, 2025 – 10:45pm
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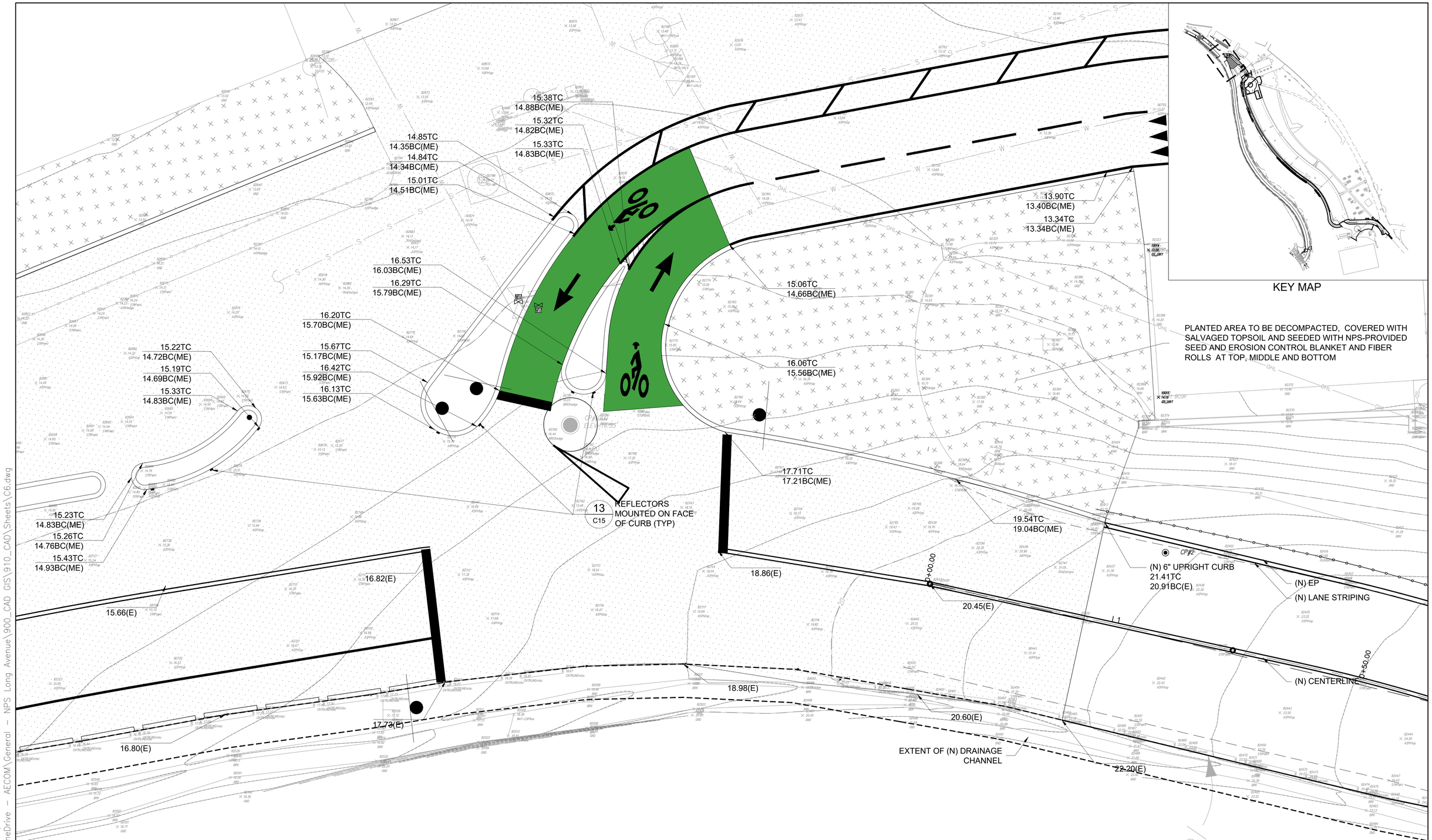

PLAN

NOTES:
1. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C6

TITLE OF SHEET
PAVING AND GRADING DETAILS (CLIN 2) SHEET 1 OF 2

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO.	641 187495
PMIS/PKG NO.	186401
SHEET	8 OF 19

Jul 23, 2025 - 10:45pm
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79.73

(N) EP

(N) LANE STRIPING, SEE DETAIL 11/C15

80.85

(N) FENCELINE

(N) GUARDRAIL

DOUBLE-YELLOW STRIPED CENTERLINE, SEE DETAIL 10/C15

81.03

(N) SWING ARM GATE AND RECEIVER POST 3/C13

83.31

77.84(E)

EXTENT OF (N) DRAINAGE CHANNEL

(E) RUMBLE STRIPS

(E) SWING ARM GATE

83.46

78.93(E)

(N) BICYCLE LANE STRIPING

(N) EP

(N) LANE STRIPING, SEE DETAIL 11/C15

80.45(E)

82.60

START OF MOUNTABLE CURB AND GUTTER 5/C14

81.16(E)

81.84(E)

83.48

82.47(E)

85.30

(N) SWING ARM GATE AND RECEIVER POST 3/C13

83.29(E)

84.37(E)

PLANTED AREA TO BE DECOMPACTED, COVERED WITH SALVAGED TOPSOIL AND SEEDED WITH NPS-PROVIDED SEED. INSTALL EROSION CONTROL BLANKET AND FIBER ROLLS AT TOP, MIDDLE AND BOTTOM

84.75

89.95TC
88.45BC

89.55TC
89.05BC

2/C13 INSTALL 24"X24" BUBBLER OVER (E) 10" PVC SD PIPE
RIM ELEV = 86.20
INV ELEV = 84.6± (ME)

85.75(E)
86.15(E)

86.07

89.85TC
89.35BC

END OF MOUNTABLE CURB AND GUTTER, START OF 3' TRANSITION TO 6" UPRIGHT CURB 87.24(E) 5/C14

86.24

88.97(E)
89.05TC
88.55BC

(N) STOP BAR STRIPING

6" UPRIGHT CURB (TYP)

3/C12 GUARDRAIL END TREATMENT

88.79(E)

87.65(E)

87.04(E)

REMOVE AND REPAVE TO CONFORM TO (E) CONCRETE (ELEV 89.08)

89.12(E)

89.10(E)

88.52(E)

CP #1

(E) SD INLET
GR=91.71
INV(NW)=89.78 6" PVC

PLAN

KEY PLAN

NOTES:
1. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

5' 0 5' 10'

811 Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C7

TITLE OF SHEET
PAVING AND GRADING DETAILS (CLIN 3) SHEET 2 OF 2

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 9 OF 19

Jul 23, 2025 - 10:46pm
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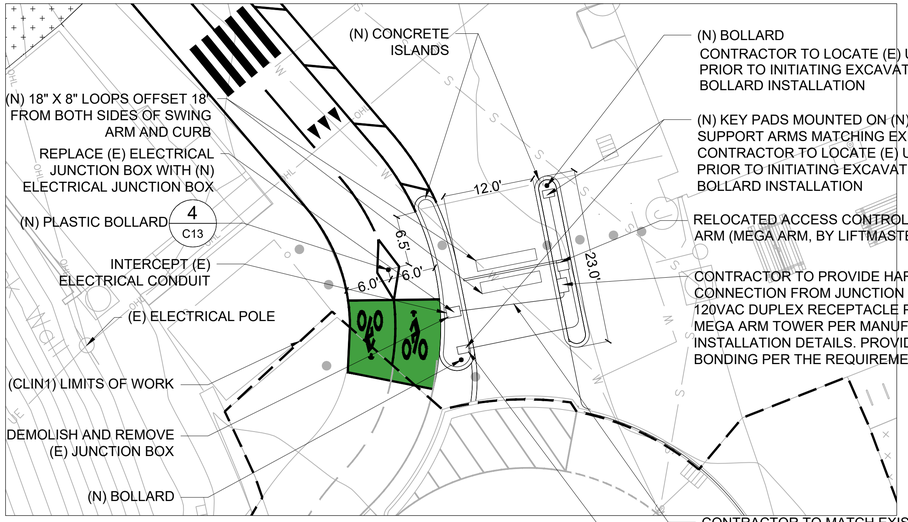


PLAN
SCALE: 1"=10'

(N) BOLLARD
CONTRACTOR TO LOCATE (E) UTILITIES PRIOR TO INITIATING EXCAVATION OR BOLLARD INSTALLATION

(N) KEY PADS MOUNTED ON (N) KEYPAD SUPPORT ARMS MATCHING EXISTING CONTRACTOR TO LOCATE (E) UTILITIES PRIOR TO INITIATING EXCAVATION OR BOLLARD INSTALLATION

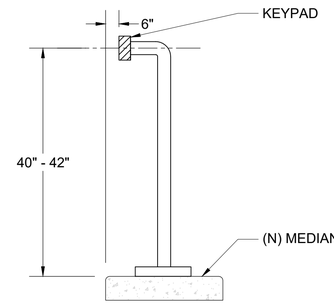
RELOCATED ACCESS CONTROL ARM (MEGA ARM, BY LIFTMASTER)

CONTRACTOR TO PROVIDE HARDWIRED CONNECTION FROM JUNCTION BOX TO POWER 120VAC DUPLEX RECEPTACLE PROVIDED INSIDE MEGA ARM TOWER PER MANUFACTURER INSTALLATION DETAILS. PROVIDE GROUNDING AND BONDING PER THE REQUIREMETNS IN CEC 250

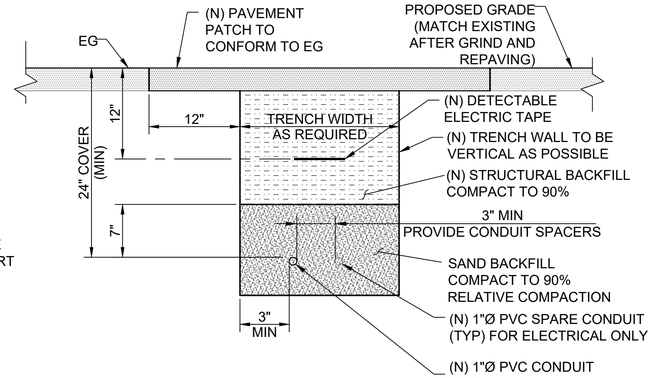
CONTRACTOR TO MATCH EXISTING WIRE SIZE (14AWG OR LARGER). SPLICE AND EXTEND FEEDER TO (N) JUNCTION BOX LOCATION IN A 1" PVC CONDUIT BURIED 18" UNDERGROUND MIN.

CONTRACTOR TO PROVIDE LOW VOLTAGE CONTROL WIRING AND ALUMINUM SUPPORT PEDESTALS FOR KEYPADS PER MANUFACTURER'S DETAILS. PROVIDE 1"C

ACCESS CONTROL ARM IMPROVEMENTS AND CURBING — 1 C8
N.T.S.

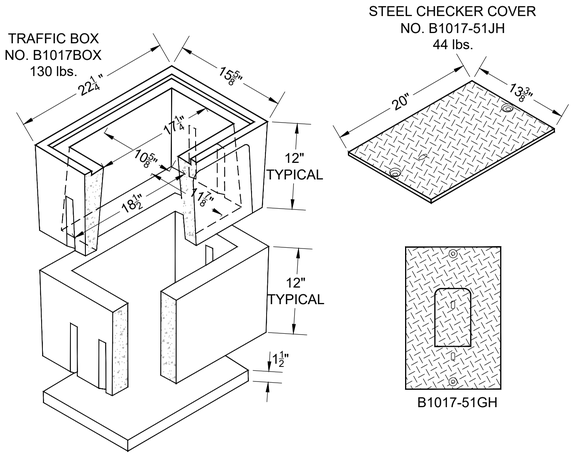


KEY PAD SUPPORT — 2 C8
N.T.S.



ELECTRICAL CONDUIT TRENCH SECTION — 3 C8
N.T.S.

TRAFFIC BOX
CALTRANS NO. 3-1/2T STATE SPECS



A HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTLING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS AND WEIGHT SHOWN

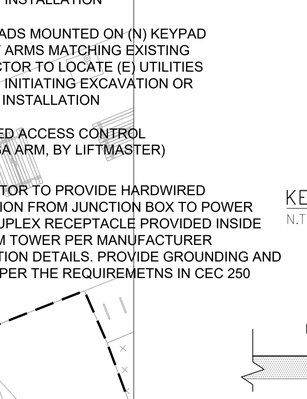
ORDERING CODE	ITEM	APPROX. SHIPPING WEIGHT	DESCRIPTION
B1017BOX	BOX	130	B1017 UTILITY BOX (10⅝"x17¼") H/20 LOADING - 20 PER PALLET
B1017-51JH	COVER	44	STEEL CHECKER PLATE, H/20, BOLT DOWN
B1017-51GH	COVER	46	STEEL CHECKER PLATE, H/20 WITH READING LID 5" x 8"
B1017X12	EXTENSION	129	12" REINFORCED CONCRETE H/20 LOADING - 20 PER PALLET
B9SL	SLAB	32	REINFORCED CONCRETE 13¾" x 19⅝"
GALVANIZING AVAILABLE ON ALL STEEL COVERS			

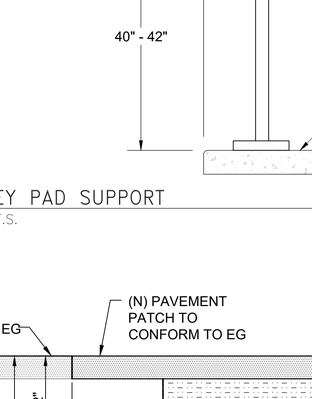
ELECTRICAL JUNCTION BOX (TRAFFIC-RATED) — 4 C8
N.T.S.

CONTROL CABINET

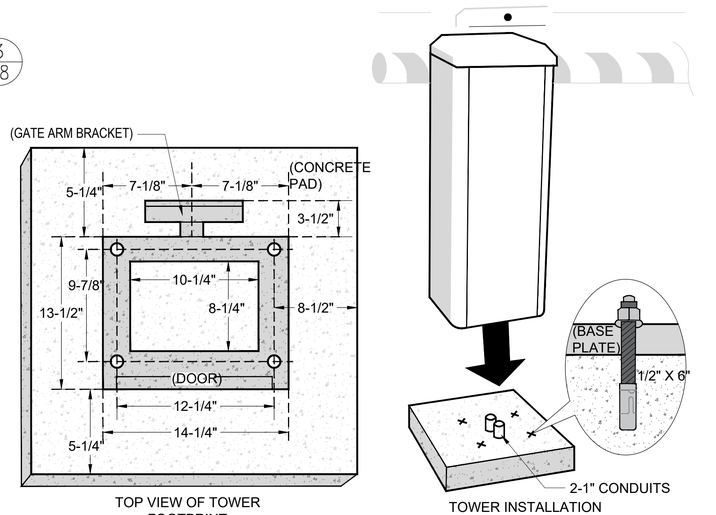
KEYPAD

ACCESS CONTROL ARM AND KEYPAD — 5 C8
N.T.S.


POLE


PANEL

ELECTRICAL TIE-IN AT POLE/PANEL — 6 C8
N.T.S.



SWING BARRIER TOWER FOOTPRINT AND INSTALLATION — 7 C8
NTS

NOTES:
1. ALL BOLTS AND FITTINGS TO BE STAINLESS STEEL

811 Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C8

TITLE OF SHEET
UTILITY PLAN

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO.	641 187495
PMIS/PKG NO.	186401
SHEET	10 OF 19

Jul 23, 2025 - 10:46pm
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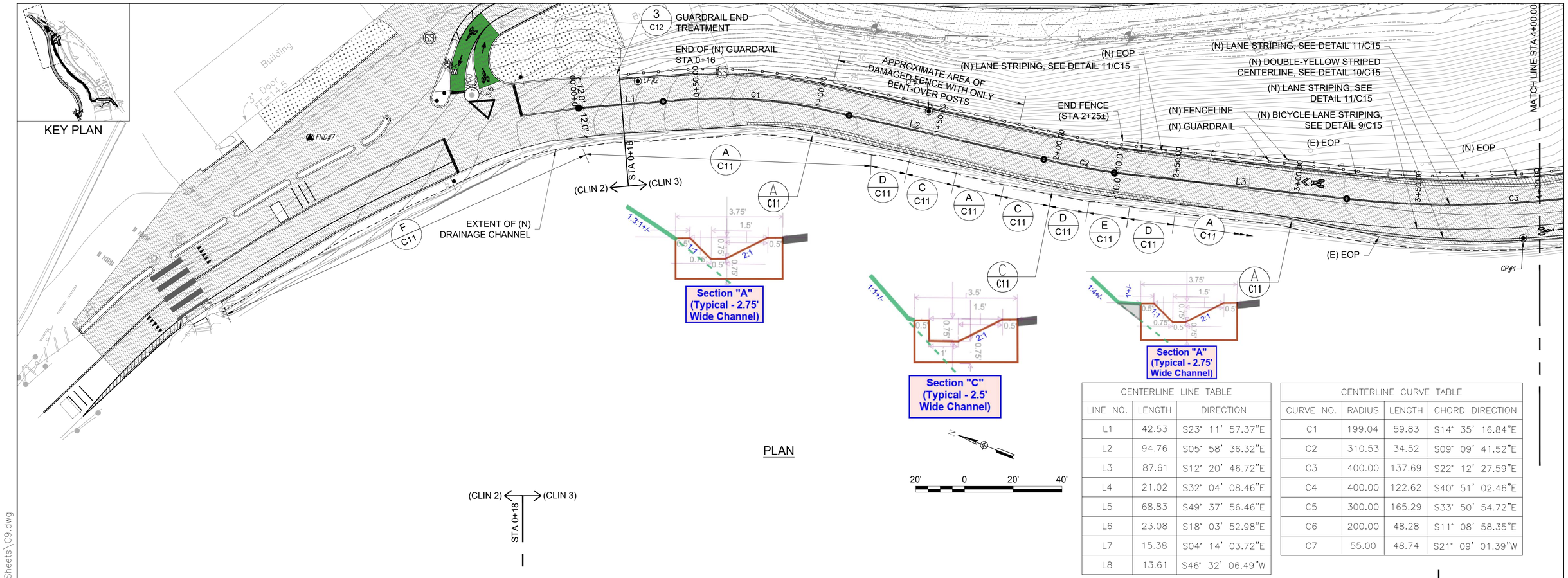
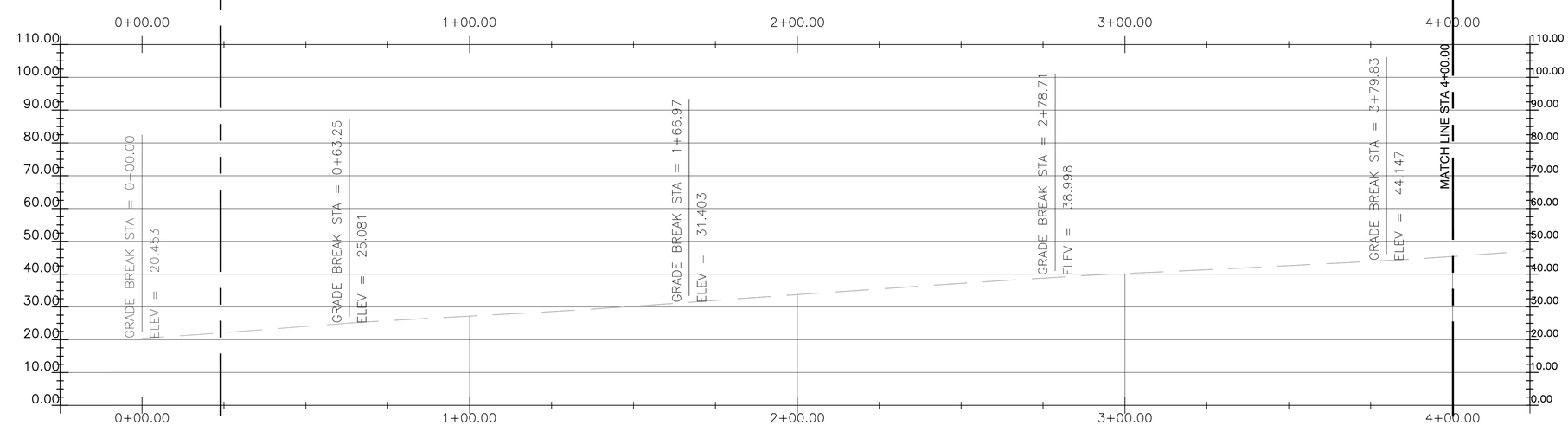


CENTERLINE LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	42.53	S23° 11' 57.37"E
L2	94.76	S05° 58' 36.32"E
L3	87.61	S12° 20' 46.72"E
L4	21.02	S32° 04' 08.46"E
L5	68.83	S49° 37' 56.46"E
L6	23.08	S18° 03' 52.98"E
L7	15.38	S04° 14' 03.72"E
L8	13.61	S46° 32' 06.49"W

CENTERLINE CURVE TABLE			
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION
C1	199.04	59.83	S14° 35' 16.84"E
C2	310.53	34.52	S09° 09' 41.52"E
C3	400.00	137.69	S22° 12' 27.59"E
C4	400.00	122.62	S40° 51' 02.46"E
C5	300.00	165.29	S33° 50' 54.72"E
C6	200.00	48.28	S11° 08' 58.35"E
C7	55.00	48.74	S21° 09' 01.39"W



PROFILE

NOTES:
1. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

LEGEND

DRAINAGE CHANNEL TYPICAL SECTION

(N) AC PAVEMENT (4" AC/5" AB)

(N) AC PAVEMENT (2" GRIND AND OVERLAY)

811 Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C9

TITLE OF SHEET
ROADWAY PLAN AND PROFILE (CLIN 3)
SHEET 1 OF 2
GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 11 OF 19

Jul 23, 2025 - 10:46pm
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(N) GUARDRAIL
(N) FENCELINE
(N) EOP
(N) LANE STRIPING, SEE DETAIL 11/C15
(N) DOUBLE-YELLOW STRIPED CENTERLINE, SEE DETAIL 10/C15
(N) LANE STRIPING, SEE DETAIL 11/C15
(N) EOP
EXTENT OF SURVEY (TYP)
(N) BICYCLE LANE STRIPING, SEE DETAIL 9/C15
EXTENT OF (N) DRAINAGE CHANNEL
(E) EOP
(E) EOP
MATCH LINE STA 4+00.00
(N) SWING BARRIER GATE 3/C13
PROTECT-IN-PLACE (E) POST AND CABLE FENCE
END OF (N) FENCE STA 9+55
KEY PLAN
3/C12 GUARDRAIL END TREATMENT
END OF (N) GUARDRAIL STA 9+84
A/C11

Section "A" (Typical - 2.75' Wide Channel)
Section "A" (Typical - 2.75' Wide Channel) LOW=EOP+5.5'

PLAN

20' 0 20' 40'

CENTERLINE LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	42.53	S23° 11' 57.37"E
L2	94.76	S05° 58' 36.32"E
L3	87.61	S12° 20' 46.72"E
L4	21.02	S32° 04' 08.46"E
L5	68.83	S49° 37' 56.46"E
L6	23.08	S18° 03' 52.98"E
L7	15.38	S04° 14' 03.72"E
L8	13.61	S46° 32' 06.49"W

CENTERLINE CURVE TABLE			
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION
C1	199.04	59.83	S14° 35' 16.84"E
C2	310.53	34.52	S09° 09' 41.52"E
C3	400.00	137.69	S22° 12' 27.59"E
C4	400.00	122.62	S40° 51' 02.46"E
C5	300.00	165.29	S33° 50' 54.72"E
C6	200.00	48.28	S11° 08' 58.35"E
C7	55.00	48.74	S21° 09' 01.39"W

PROFILE

4+00.00 5+00.00 6+00.00 7+00.00 8+00.00 9+00.00 10+00.00

GRADE BREAK STA = 4+81.20 ELEV = 51.593
GRADE BREAK STA = 5+83.58 ELEV = 58.305
GRADE BREAK STA = 6+83.99 ELEV = 65.096
GRADE BREAK STA = 7+85.92 ELEV = 72.058
GRADE BREAK STA = 8+86.04 ELEV = 79.266
GRADE BREAK STA = 9+83.78 ELEV = 87.596

LEGEND

C11 DRAINAGE CHANNEL TYPICAL SECTION

(N) AC PAVEMENT (4" AC/5" AB)

(N) AC PAVEMENT (2" GRIND AND OVERLAY)

NOTES:
1. SEE SHEET G1 FOR SURVEY CONTROL POINT INFORMATION.

Know what's below. Call before you dig.

DESIGNED: J. YEE
CADD: J. YEE
TECH. REVIEW: G. PHILIPS
DATE: 07/07/2025

SUB SHEET NO. C10

TITLE OF SHEET
ROADWAY PLAN AND PROFILE (CLIN 3) SHEET 2 OF 2

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 12 OF 19

Jul 23, 2025 - 10:47pm
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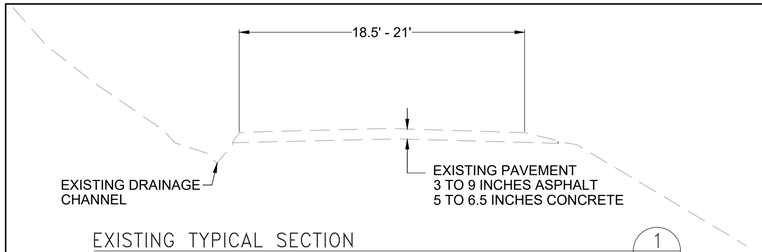
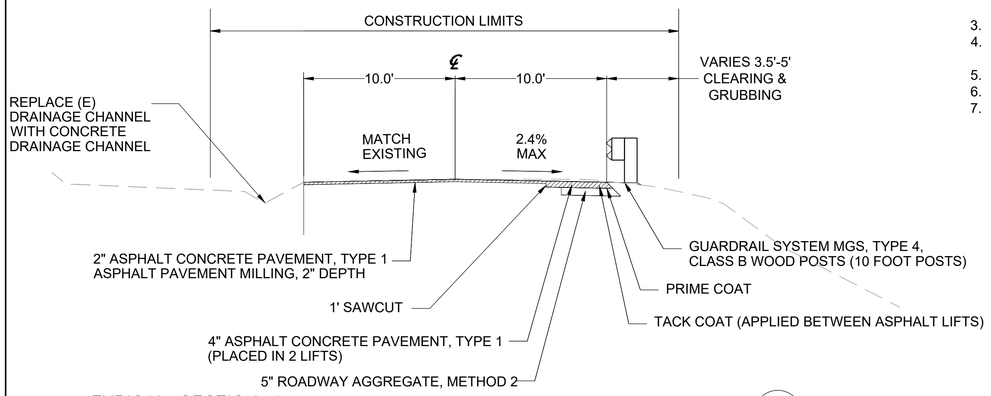
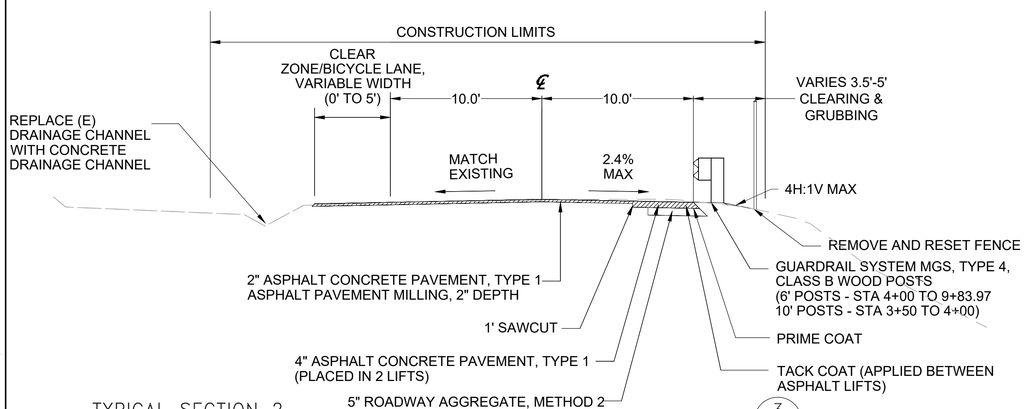


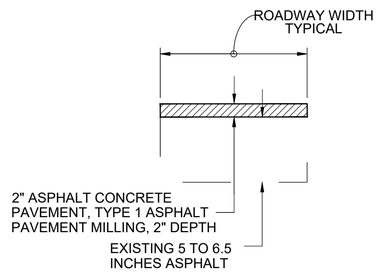
EXISTING TYPICAL SECTION — NTS — 1 C11



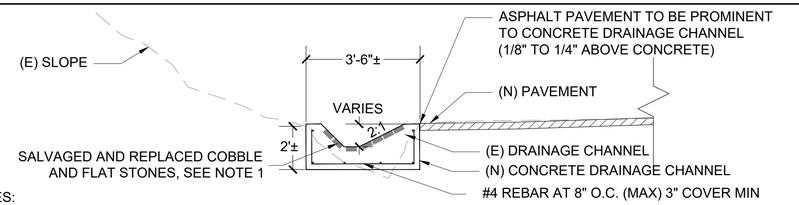
TYPICAL SECTION 1 — STA 0+00 TO 3+00 — 2 C11



TYPICAL SECTION 2 — STA 3+00 TO 9+81 — 3 C11



TYPICAL PAVEMENT SECTION – MILL AND OVERLAY — NTS — 4 C11

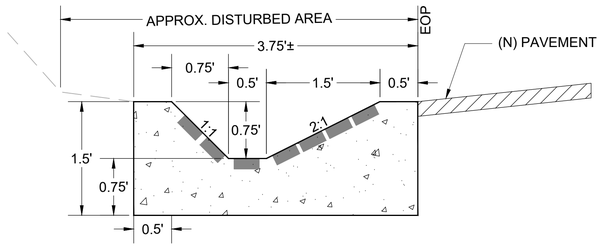


NOTES:
1. COBBLE CHANNEL WILL BE REHABILITATED CONSISTENT WITH SECRETARY OF INTERIOR REHABILITATION STANDARD 6 (WHERE THE SEVERITY OF DETERIORATION REQUIRES REPLACEMENT OF A DISTINCTIVE FEATURE, THE NEW FEATURE SHALL MATCH THE OLD IN DESIGN, COLOR, TEXTURE, AND OTHER VISUAL QUALITIES AND, WHERE POSSIBLE, MATERIALS).
2. CONTRACTOR TO DEMOLISH THE EXISTING DRAINAGE CHANNEL; REMOVE CONCRETE FROM STONE COBBLES; RINSE; AND, COLLECT ALL EXISTING STONE COBBLES FOR EXAMINATION AND EVALUATION FOR ACCEPTABLENESS FOR SALVAGE/REUSE IN THE NEW DRAINAGE CHANNEL. MINIMUM DIMENSION FOR STONE COBBLE REUSE IS 2" AND STONE COBBLE MATERIAL MUST BE COMPETENT AND INCLUDE NO CRACKS.
3. ORIENT STONE COBBLES TO HAVE LONG DIMENSION RUNNING PARALLEL WITH DRAINAGE CHANNEL.
4. STONE COBBLES TO BE PLACED ON 3-SIDES OF DRAINAGE CHANNEL, EXCEPT FOR 2', 2.25' AND 2.5' WIDE CHANNELS, WHERE STONE COBBLES TO ONLY BE PLACED ON BOTTOM AND ROAD SIDES (NO COBBLES PLACED ON VERTICAL BACK WALL).
5. PLACE STONE COBBLES ON A MIN. OF 1" THICK MORTAR WITH 1/2-1" BETWEEN STONES.
6. SETTING MORTAR UNDER STONES TO BE PLACED ON ROUGHEND CONCRETE FINISH.
7. DRAINAGE CHANNEL EDGE ALONG ROADSIDE AND HILLSIDE TO BE CONCRETE (NOT MORTAR).

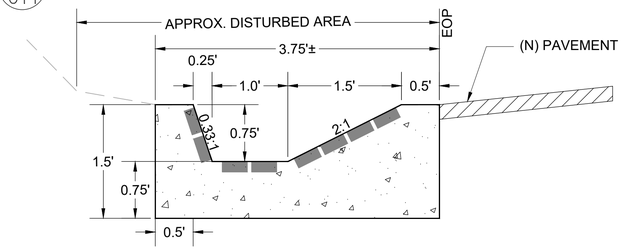
TYPICAL DRAINAGE CHANNEL SECTION — NTS — 5 C11

DRAINAGE CHANNEL SECTIONS		
STA	SECTION	AVERAGE APPROX. DISTURBED AREA BEYOND EOP (FT)
0+00 TO 1+25	A	4.5
1+25 TO 1+40	D	3.5
1+40 TO 1+60	C	4
1+60 TO 1+80	A	4.5
1+80 TO 2+00	C	4
2+00 TO 2+15	D	3.5
2+15 TO 2+30	E	3.5
2+30 TO 2+50	D	4
2+50 TO 9+15	A	6

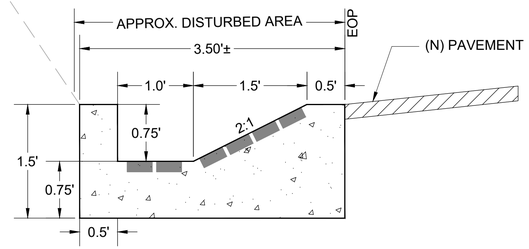
(N) DRAINAGE CHANNEL SECTION LOCATIONS — NTS — 6 C11



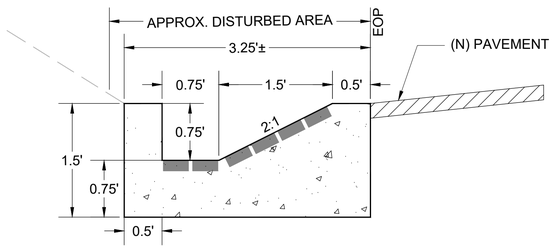
TYPICAL 2.75' WIDE CHANNEL — NTS — A C11



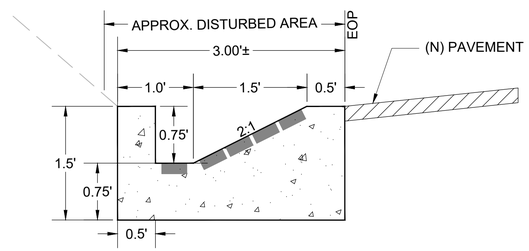
INCREASED CAPACITY 2.75' WIDE CHANNEL — NTS — B C11



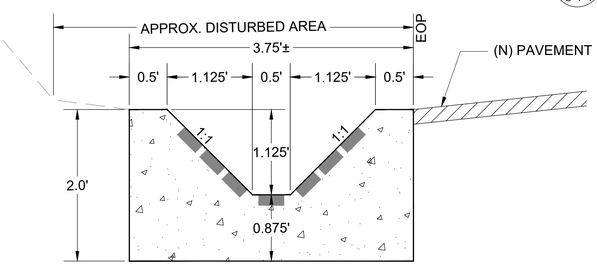
TYPICAL 2.5' WIDE CHANNEL — NTS — C C11



TYPICAL 2.25' WIDE CHANNEL — NTS — D C11



TYPICAL 2' WIDE CHANNEL — NTS — E C11



DEEPER 2.75' WIDE CHANNEL — NTS — F C11

Know what's below. Call before you dig.

DESIGNED: J. YEE
CADD: J. YEE
TECH. REVIEW: G. PHILIPS
DATE: 07/07/2025

SUB SHEET NO. C11

TITLE OF SHEET: ROADWAY CROSS SECTIONS

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 13 OF 19

Jul 23, 2025 – 10:47pm
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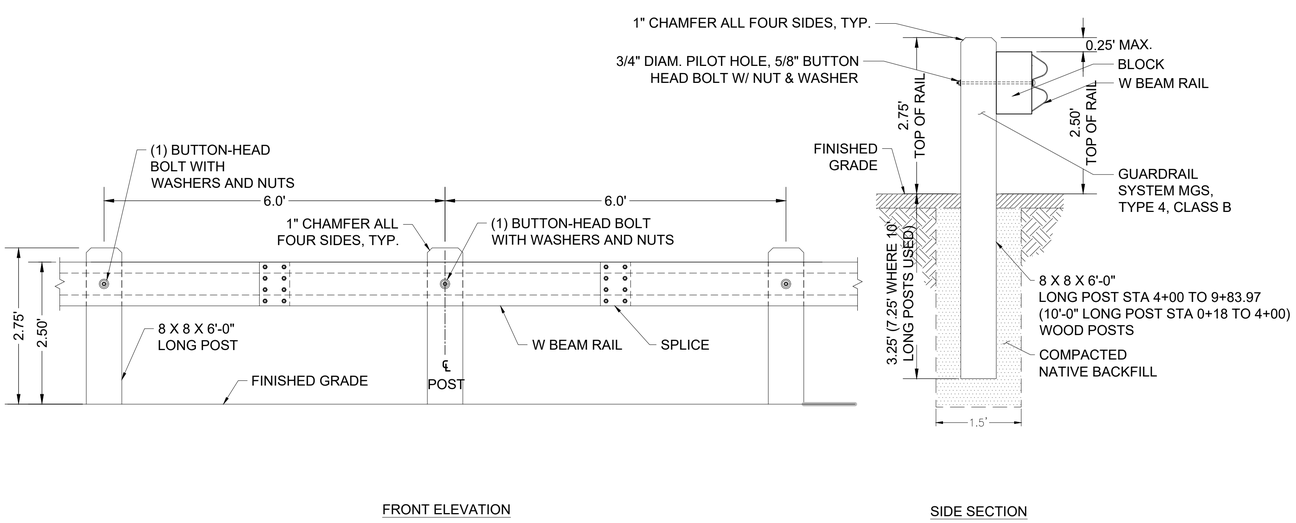


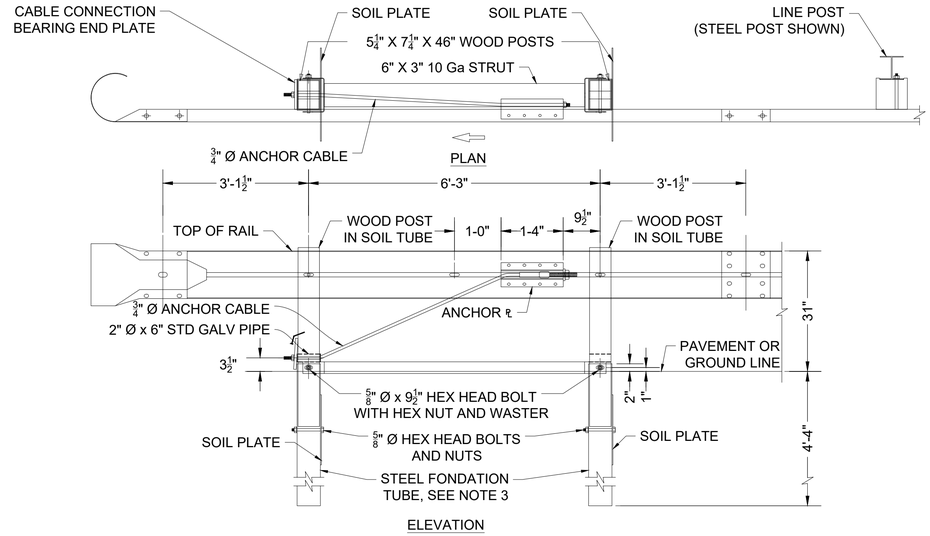
FRONT ELEVATION

SIDE SECTION

STANDARD GUARDRAIL

NTS

1 / C12



ELEVATION

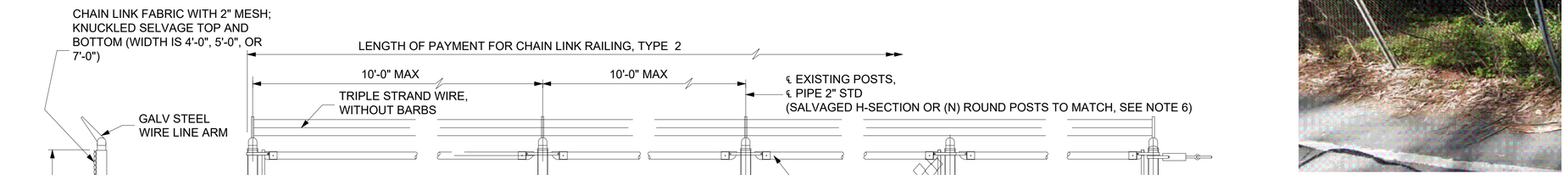
GUARDRAIL END TREATMENT

NTS

3 / C12

NOTES:

1. DETAIL TAKEN FROM CALTRANS STANDARD PLANS. SEE CALTRANS REVISED STANDARD PLAN RSP A77S1 [MIDWEST GUARDRAIL SYSTEM END ANCHOR ASSEMBLY (TYPE SFT-M)] FOR FURTHER DETAIL AND CONSTRUCTION NOTES.



CHAIN LINK FENCE

NTS

2 / C12

H-POST

NTS

3 / C12

CLOSE-UP OF FENCEPOST

NTS

4 / C12

NOTES:

1. POSTS MUST BE VERTICAL.
2. WHEN FENCE IS ON SLOPE, PLACE FABRIC PARALLEL TO SLOPE.
3. PROVIDE THIMBLES AT ALL CABLE LOOPS.
4. PEEN ALL ⅜"Ø BOLTS.
5. AT INTERMEDIATE POSTS ONLY, CONTRACTOR HAS THE OPTION OF EITHER ⅛"X2" STRAP OR ¼" ANCHOR PLATE WITH EYEBOLT.
6. REMOVE EXISTING FENCE AND SALVAGE POSTS WHERE FEASIBLE. EXISTING FENCE POST TYPES INCLUDE PIPE AND RAIL-TIE. ONLY PIPE IS SHOWN ON THESE PLANS. IF NEW POSTS ARE NEEDED, THEY SHALL BE STANDARD ROUND TYPE POSTS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
7. EXISTING BENT FENCE POSTS SHALL BE STRAIGHTENED WHERE FEASIBLE WITH MINIMAL METAL FATIGUE. BENT POSTS THAT ARE DETERMINED INFEASIBLE FOR STRAIGHTENING SHALL BE REMOVED AND REPLACED PER PROJECT SPECIFICATIONS.
8. ALL NEW POSTS AND FABRIC TO BE HOT-DIPPED GALVANIZED
9. CHAIN LINK FABRIC, ABOVE-FENCE METAL SUPPORTS, AND NON-BARBED WIRE STRANDS OF FENCE ARE TOO DETERIORATED AND/OR DEFORMED TO SALVAGE AND REPLACEMENTS WILL MATCH THE OLD IN SIZE, SCALE, FINISH, AND MATERIAL.

811 Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C12

TITLE OF SHEET
STANDARD DETAILS
SHEET 1 OF 3

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO.	641 187495
PMIS/PKG NO.	186401
SHEET	14 OF 19

Jul 23, 2025 - 10:47pm
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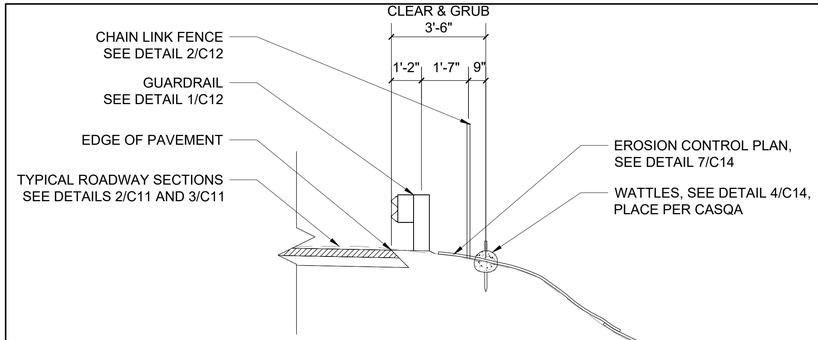
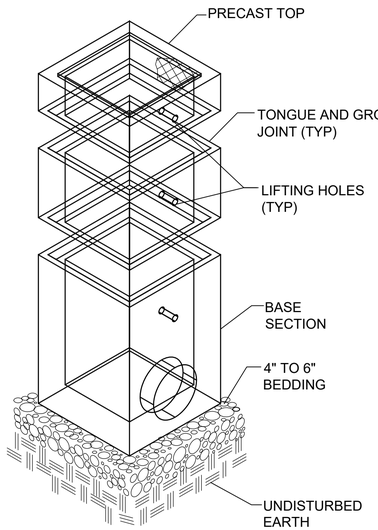


GUARDRAIL, FENCE, AND CLEARING & GRUBBING

NTS

1 C13



PRECAST BASE AND RISER SECTIONS
TYPICAL INSTALLATION

NOTES:

1. CONCRETE SHALL TEST TO 3000 PSI AT 28 DAYS.
2. FRAME, GRATE AND NOSING ANGLE SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION PER ASTM SPEC. A-123.
3. WEIGHT OF PRECAST TOP WITHOUT GRATE = 1000 LBS. WEIGHT OF GRATE = 109 LBS.
4. PRECAST BASE IS CENTRAL PRECAST MODEL-CP2424 WITH PIPE OPENINGS CAST IN, INSIDE DIMENSIONS ARE 24"x24".
5. FRAME AND GRATE TO BE TRAFFIC-RATED.

WALL SECTIONS

MODEL	ID	HEIGHT	LBS./IN.
CP2424WALL	24"x24"	12",18",24",30",36"	75.0

WALL SECTION WITH KNOCKOUTS

MODEL	ID	HEIGHT	LBS.
CP2424WK	24"x24"	30"	2250

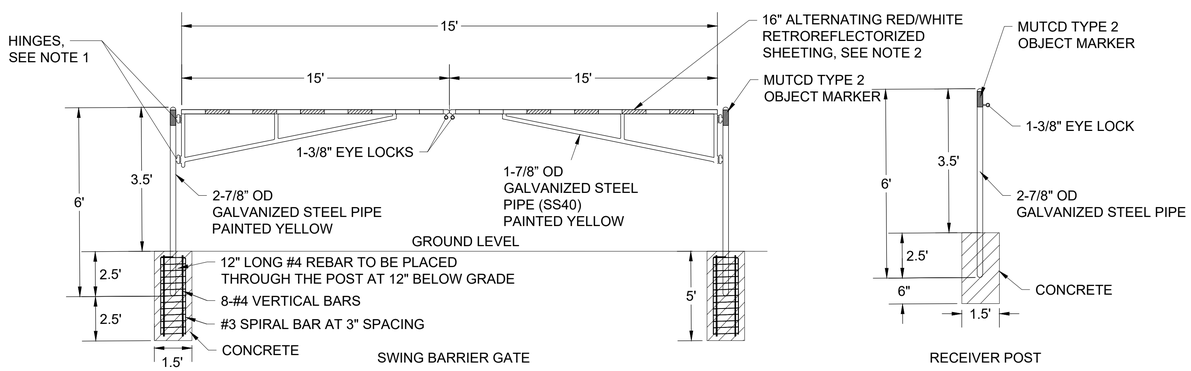
BASE SECTION WITH KNOCKOUTS

MODEL	ID	HEIGHT	LBS.
CP2424FLK	24"x24"	30"	3150

BUBBLER

NTS

2 C13



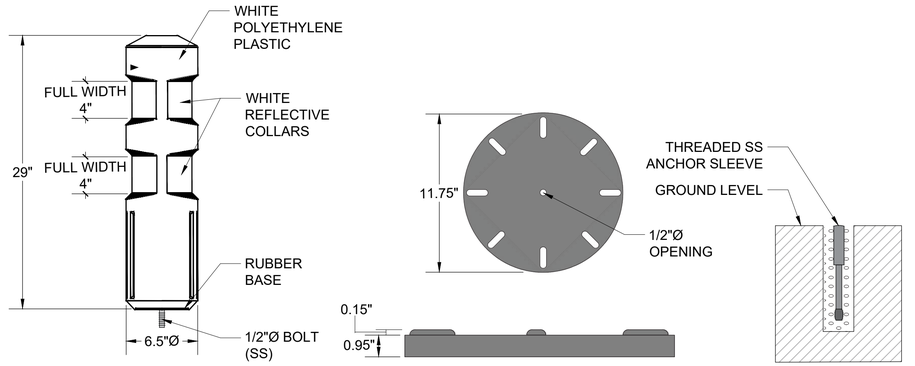
SWING BARRIER GATE AND RECEIVER POST

NTS

3 C13

NOTES:

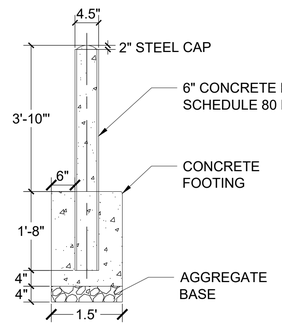
1. FOR BOTH SWING BARRIER GATES, CONTRACTOR TO INSTALL VERTICAL MEMBER AT POST/HINGES TO LIMIT GATES' RANGE OF RORATION TO DIRECTION OF TRAFFIC ONLY.
2. GATES SHALL BE FULLY REFLECTORIZED ON BOTH SIDES.



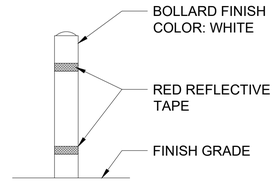
PLASTIC BOLLARD

NTS

4 C13



BOLLARD INSTALLATION SECTION

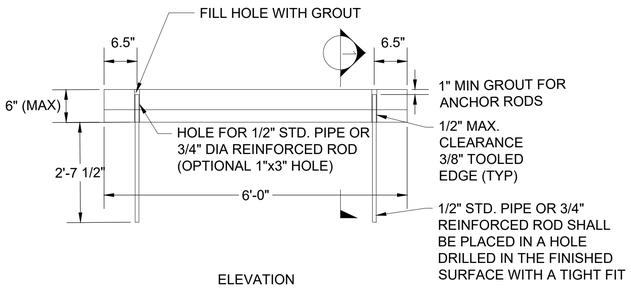


BOLLARD REFLECTIVE TAPE
& FINISH ELEVATION

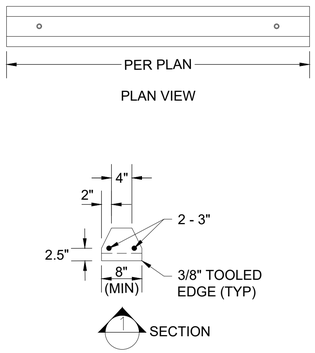
STEEL BOLLARD

NTS

5 C13



ELEVATION



PRECAST CONCRETE WHEEL STOP

NTS

6 C13

Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C13

TITLE OF SHEET
STANDARD DETAILS
SHEET 2 OF 3
CLIN 3

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495

PMIS/PKG NO. 186401

SHEET 15 OF 19

Jul 23, 2025 – 10:47pm
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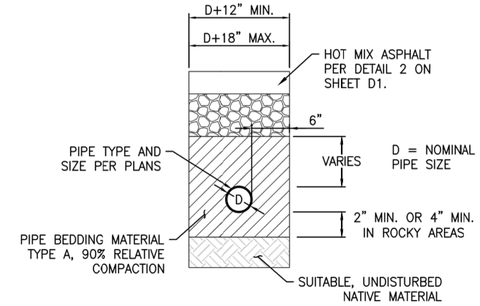
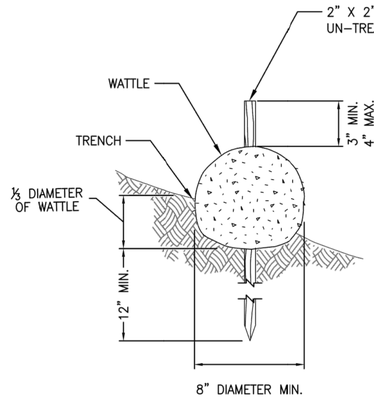


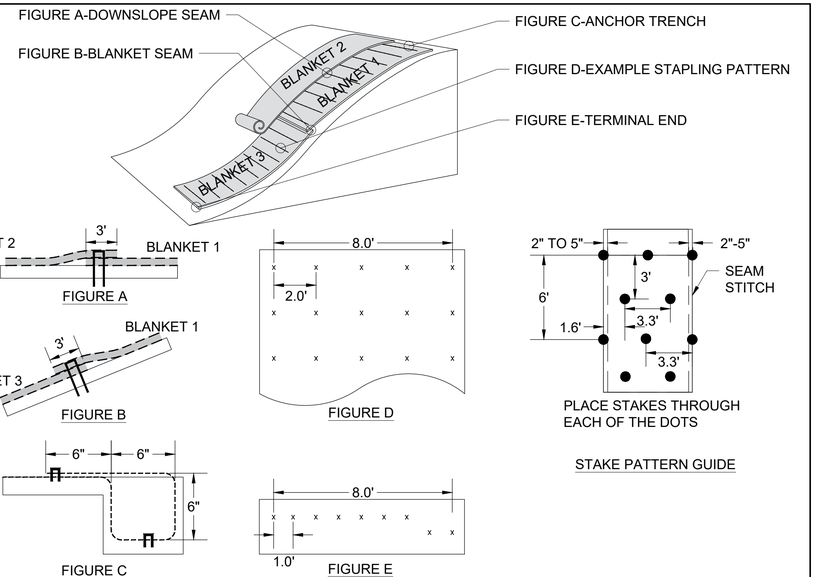
CULVERT TRENCH
NTS
1
C14



WATTLE NOTES:

1. INSTALL WATTLES ALONG CONTOURS.
2. SECURELY KNOT EACH END OF WATTLE. OVERLAP ADJACENT WATTLE ENDS 12" BEHIND ONE ANOTHER AND SECURELY TIE TOGETHER.
3. COMPACT EXCAVATED SOIL AND TRENCHES TO PREVENT UNDERCUTTING. ADDITIONAL STAKING MAY BE NECESSARY TO PREVENT UNDERCUTTING.
4. INSTALL WATTLE PERPENDICULAR TO FLOW ALONG CONTOURS.
5. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.

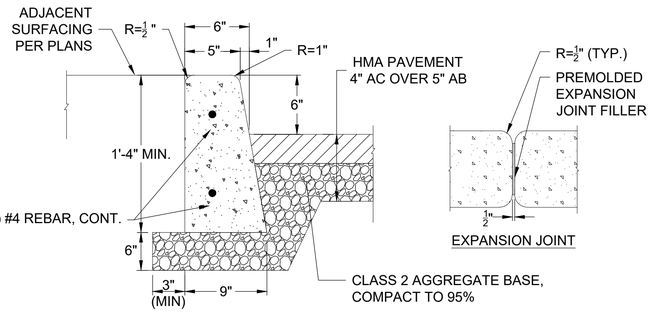
WATTLE
NTS
4
C14



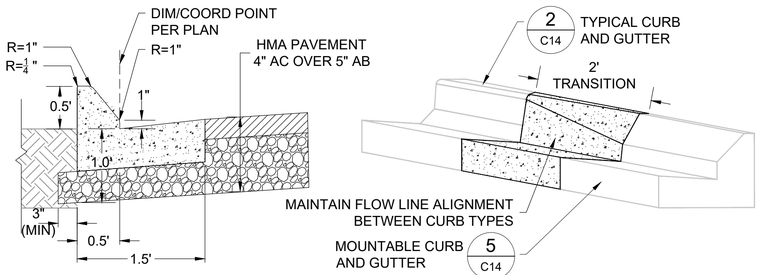
NOTES:

1. PRIOR TO PLANTING, CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKET ON ALL 2:1 SLOPES.
2. PREPARE SOIL AND APPLY EROSION CONTROL SEED MIX ACCORDING TO EROSION CONTROL AND GRADING SPECIFICATIONS.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 12" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH TO A RELATIVE COMPACTION OF NOT LESS THAN 90 PERCENT AFTER STAPLING/STAKING. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
4. ROLL THE BLANKETS DOWN THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.
5. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAKE PATTERN GUIDE (SEE INSET).
6. BLANKET EDGES AT THE TOE OF THE 2:1 SLOPE SHALL BE ANCHORED IN A TRENCH SUFFICIENT TO ACCOMMODATE ⅔ OF COIR LOG. BLANKET SHALL BE PLACED PRIOR TO PLACEMENT OF COIR LOG. DRIVE A 2"X2"X24" WOODEN STAKE THROUGH THE COIR LOG AND BLANKET, LEAVING 2" TO 4" OF STAKE EXPOSED. LOCATE WOODEN STAKES ACCORDING TO SPECIFICATIONS.
7. THE EDGES OF ADJOINING BLANKETS MUST BE STAKED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, LACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
8. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END-OVER-END (SHINGLE STYLE) WITH AN APPROXIAMTE 3" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
9. WOOD STAKES SHALL BE USED TO ANCHOR THE BLANKET. SEE SPECIFICATIONS FOR MATERIAL TYPE AND DIMENSIONS.

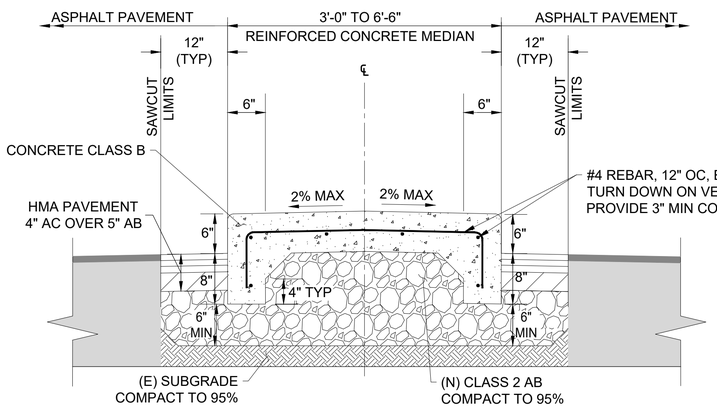
EROSION CONTROL BLANKET
NTS
7
C14



VERTICAL CURB
NTS
2
C14



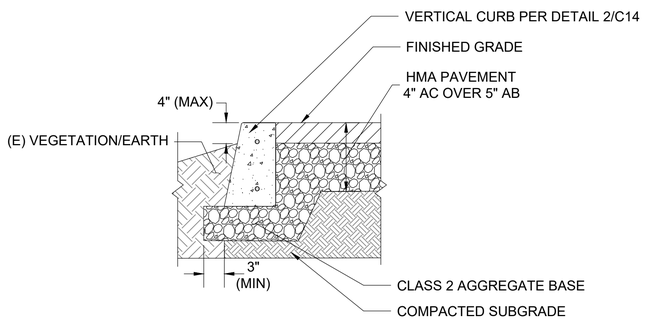
TRIANGULAR CURB
NTS
5
C14



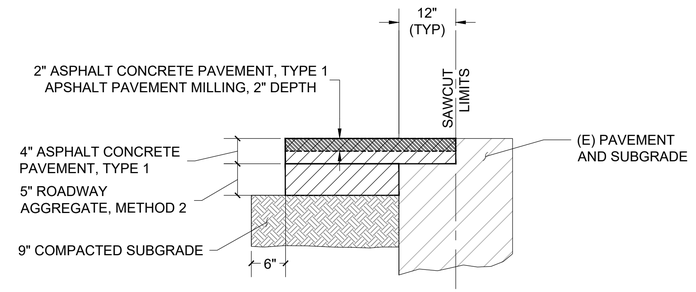
MEDIAN ISLAND
NTS
3
C14

NOTES:

1. PLACE JOINTS EVERY 10' OC.
2. MEDIAN TO BE CONSTRUCTED MONOLITHICALLY.



FLUSH CURB
NTS
6
C14



PAVEMENT TRANSITION
NTS
8
C14

NOTE

1. CONTRACTOR TO REMOVE EXISTING SUBGRADE TO 18" BELOW PROPOSED GRADE AND PLACE COMPACT SUITABLE STRUCTURAL BACKFILL UP TO BOTTOM OF PLANNED ROADWAY AGGREGATE.

811 Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025
SUB SHEET NO.	C14

TITLE OF SHEET
STANDARD DETAILS
SHEET 3 OF 3
CLIN 3
GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO.	641 187495
PMIS/PKG NO.	186401
SHEET	16 OF 19

Jul 23, 2025 - 10:47pm
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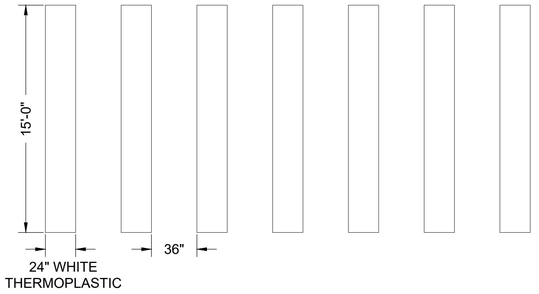
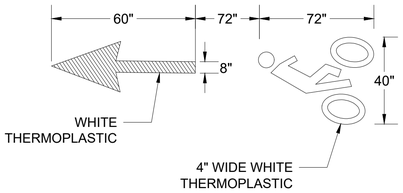


CROSSWALK STRIPING DETAIL — 1 C15

NTS

NOTES:

1. SPACES BETWEEN MARKINGS MUST BE PLACED IN WHEEL TRACKS OF EACH LANE
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

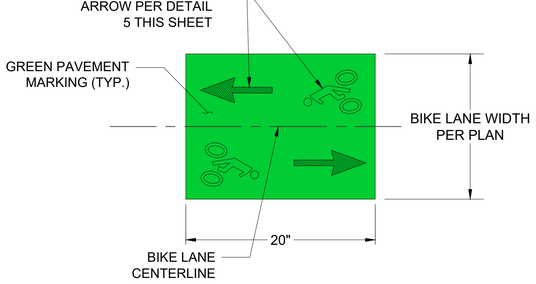


BIKE SYMBOL AND ARROW PAVEMENT MARKING — 5 C15

NTS

NOTE:

1. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

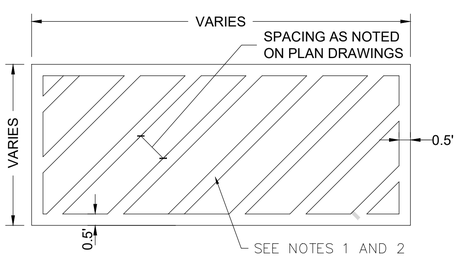


BIKE LANE PAVEMENT MARKING — 6 C15

NTS

NOTE:

1. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

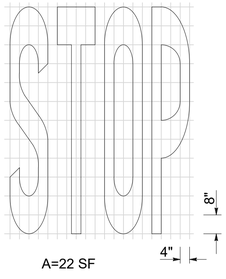


NO PARKING STRIPING — 12 C15

NTS

NOTES:

1. EXTERIOR STRIPING SHALL BE 6" WIDE WHITE THERMOPLASTIC
2. INTERIOR STRIPING SHALL BE 45° 4" WIDE WHITE THERMOPLASTIC.



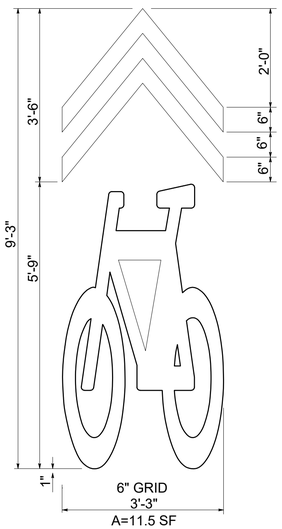
A=22 SF

STOP LEGEND — 2 C15

NTS

NOTES:

1. REFERENCE TAKEN FROM 2022 STANDARD PLAN A24D
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

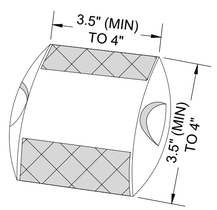


SHARED ROADWAY BICYCLE MARKING — 7 C15

NTS

NOTES:

1. REFERENCE TAKEN FROM 2022 STANDARD PLAN A24C
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

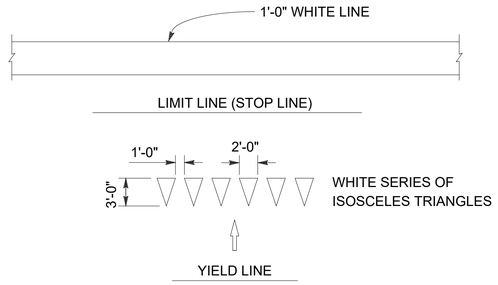


REFLECTOR — 13 C15

NTS

NOTE:

1. RAISED MARKINGS SHALL BE YELLOW, TWO-WAY REFLECTIVE, AND SIZED 3.5" (MIN) TO 4" FOR BOTH LENGTH AND WIDTH.



LIMIT LINE & YIELD LINE — 3 C15

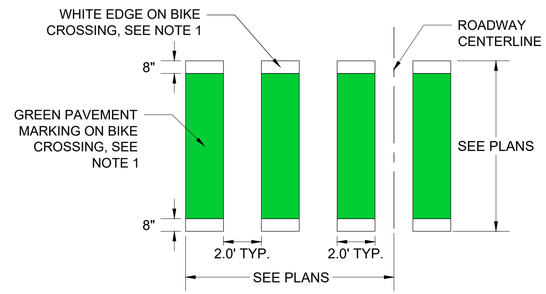
NTS

NOTES:

1. REFERENCE TAKEN FROM 2022 STANDARD PLAN A24G
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

NOTE:

1. PEDESTRIAN CROSSING SHALL BE SOLID WHITE PARKING.



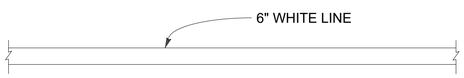
BIKE/PEDESTRIAN CROSSING PAVEMENT MARKING — 8 C15

NTS

NOTE:

1. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

DETAIL 39

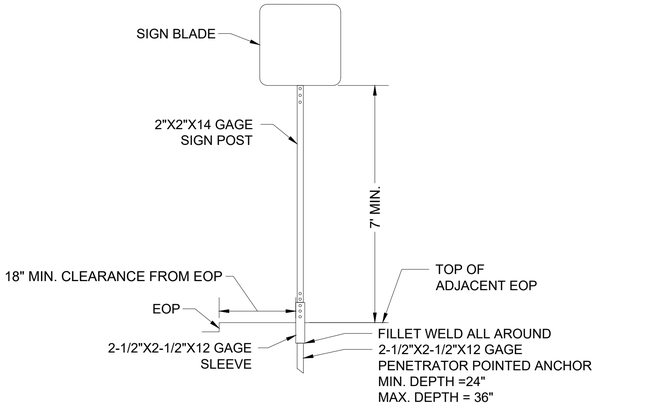


BIKE LANE LINE DETAILS — 9 C15

NTS

NOTES:

1. REFERENCE MODIFIED FROM 2022 STANDARD PLAN A20D
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC



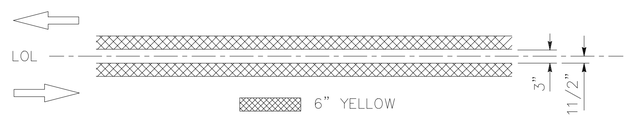
SIGN POLE — 4 C15

NTS

NOTES:

1. CUT POST TO MEET SPECIFIED HEIGHT

DETAIL 21



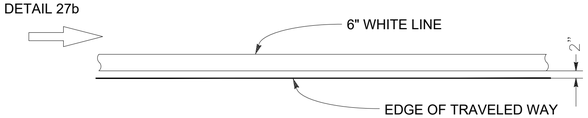
CENTERLINE STRIPING — 10 C15

NTS

NOTES:

1. REFERENCE TAKEN FROM 2022 STANDARD PLAN A20A
2. MINOR VARIATIONS IN DIMENSIONS MAY BE ACCEPTED BY THE ENGINEER
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

DETAIL 27b



RIGHT EDGE LANE LINE — 11 C15

NTS

NOTES:

1. REFERENCE TAKEN FROM 2022 STANDARD PLAN A20B
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE THERMOPLASTIC

Know what's below. Call before you dig.

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C15

TITLE OF SHEET: SIGNAGE AND PAVEMENT MARKING DETAILS

GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495

PMIS/PKG NO. 186401

SHEET 17 OF 19

Jul 23, 2025 - 10:47pm
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EXISTING IMPACTED TREES

TREE LOCATION #	APPROX. STA	DIAMETER	TREE TAG NO.	SPECIES[1]
1	2+63	22"		EUCALYPTUS
2	2+64	22"		SNAG
3	2+66	8		TOYON
4	2+67	10"		EUCALYPTUS
5	2+75	10"		
6	2+79	26"		
7	2+82	11"		
8	2+97	18"		
9	3+02	22"		
10	3+16	14", 10", 8", 6", 6", 6"	8735A	TOYON
11	3+35	27", 10"	8734A	EUCALYPTUS
12	3+42	27"	8733A	
13	3+45	6", 6"		TOYON
14	3+50	12", 12"	8732A	EUCALYPTUS
15	3+53	10"		
16	3+68	22", 9", 8"	8731A	
17	3+95	6		TOYON
18	4+08	10"		
19	4+43	13"		EUCALYPTUS
20	4+59	7"		
21	4+67	7"		TOYON
22	5+18	13", 8"		
23	5+37	9"	8726A	EUCALYPTUS
24	5+48	10", 8", 8", 6"	8725A	TOYON
25	5+96	23"	8724A	EUCALYPTUS
26	6+08	7"	8723A	TOYON
27	6+30	24", 11", 10", 9", 7", 7", 7", 6"	8722A	EUCALYPTUS
28	6+42	21", 20"	8721A	
29	6+58	15", 8"	8720A	TOYON
30	6+72	19"	8719A	EUCALYPTUS
31	6+87	10", 6", 6"	8718A	TOYON
32	7+00	12", 8"	8717A	
33	7+30	11", 9", 9", 7", 6"	8716A	
34	7+64	30"	8715A	EUCALYPTUS
35	7+69	9"	8714A	
36	7+94	8", 7", 6", 6", 6"	8712A	TOYON
37	8+04	87"	8713A	EUCALYPTUS
38	8+22	12", 9"	8712A	TOYON
39	8+31	8"		
40	8+78	26"	8711A	EUCALYPTUS
41	8+86	29"	8710A	

EXISTING FENCE POSTS

STA	POST TYPE H = H POST R = ROUND POST	NOTES
1+00	H	LOCATED AT END OF (E) GUARDRAIL
1+08	H	
1+17	H	
1+26	H	
1+35	H	
1+47	H	
1+65	H	
1+77	H	
1+85	H	5.5' HEIGHT (TO TOP OF POST)
1+94	R	5.5' HEIGHT (TO TOP OF POST)
1+99	H	
2+08	H	
2+17	H	
2+25	H	
2+34	R	
2+46	H	5.5' HEIGHT (TO TOP OF POST)
2+51	R	
2+63	H	
2+72	R	3" O.D. POST
2+75	R	
2+87	R	
2+96	H	5.5' HEIGHT (TO TOP OF POST)
3+00	H	
3+25	H	
3+35	R	
3+45	H	
3+50	H	
3+62	H	START OF MID-HEIGHT HORIZONTAL POST
3+75	R	7.5' HEIGHT (TO TOP OF POST)
3+85	H	END OF MID-HEIGHT HORIZONTAL POST
4+00	H	
4+12	H	
4+25	H	
4+37	H	
4+45	H	
4+50	H	
4+60	H	
4+72	H	
4+81	R	
4+91	H	
5+01	H	
5+13	H	
5+20	H	
5+25	H	
5+34	H	
5+43	H	
5+50	H	
5+60	H	
5+70	H	
5+80	H	
5+90	H	
6+00	H	
6+10	H	
6+20	H	
6+25	H	
6+37	H	
6+47	R	
6+50	R	
6+60	H	
6+70	H	
6+75	H	
6+84	H	
6+94	H	
7+00	H	
7+09	H	
7+19	H	

EXISTING FENCE POSTS

STA	POST TYPE H = H POST R = ROUND POST	NOTES
7+25	H	
7+35	H	
7+45	H	
7+50	H	
7+60	R	
7+70	R	
7+75	R	
7+84	R	
7+96	H	
8+00	H	
8+12	H	
8+22	H	
8+25	H	
8+35	H	
8+50	H	
8+60	H	
8+75	R	

CONDITION OF EXISTING DRAINAGE CHANNEL

STA	DRAINAGE CHANNEL WIDTH	DRAINAGE CHANNEL BOTTOM	STONE TYPE	STONE COVERAGE	STONE SIZE	NOTES
1+15	48"	12" FLAT BOTTOM	ROUND	<10% COVERAGE	4"-8"	
1+40						BARE DIRT
1+65			NO VISIBLE ROUND STONES		LARGE STONES	
1+90						ROADSIDE FACE OF DRAINAGE CHANNEL IS VERTICAL
2+15				10% COVERAGE		ROADSIDE FACE OF DRAINAGE CHANNEL IS NEAR VERTICAL, EXPOSED BEDROCK
2+40		18" FLAT BOTTOM			6"-12"	BRUSHED CONCRETE DRAINAGE CHANNEL SURFACE
2+65			ROUND AND RECTANGULAR	<25% COVERAGE		EXPOSED BEDROCK
2+90						ROADSIDE FACE OF DRAINAGE CHANNEL IS NEAR VERTICAL
3+15		12" FLAT BOTTOM				
3+40	36"					
3+65						
3+90				25% COVERAGE		
4+15			ROUND	50% COVERAGE		FLOWING WATER OBSERVED IN DRAINAGE CHANNEL
4+40	42"				4"-6"	CLAY PIPE (VCP) AT BOTTOM OF DRAINAGE CHANNEL
4+65	4'-0"		RECTANGULAR		6"-10"	
4+90			ROUND			
5+10						
5+40			RECTANGULAR			
5+65	3'-6"	V-SHAPED			8"-12"	
5+90		12" FLAT BOTTOM	ROUND		4"-6"	
6+15	36"					
6+40					8"-12"	
6+65					4"-6"	
6+90	48"				8"-10"	
7+15	36"	CONCRETE BOTTOM				
7+40					4"-10"	GROUT IN DRAINAGE CHANNEL
7+65					10"	BRUSHED CONCRETE DRAINAGE CHANNEL SURFACE
7+90	42"				<6"	
8+15			ROUND AND RECTANGULAR		4"-12"	
8+40			MOSTLY ROUND, SOME RECTANGULAR			2' DRAINAGE CHANNEL DEPTH
8+75	48"		ROUND			

NOTES:
1. EXISTING DRAINAGE CHANNEL INFORMATION WAS GATHERED DURING A FIELD ASSESSMENT PERFORMED ON DECEMBER 11, 2024

811 Know what's below. Call before you dig.

LICENSED PROFESSIONAL ENGINEER — JAMES M. YEE — No. 76295 — CIVIL — STATE OF CALIFORNIA — EXP. 06/30/26

DESIGNED:	J. YEE
CADD:	J. YEE
TECH. REVIEW:	G. PHILIPS
DATE:	07/07/2025

SUB SHEET NO. C16

TITLE OF SHEET
EXISTING TREE, FENCE, AND DRAINAGE CHANNEL TABLES
GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 18 OF 19

Jul 23, 2025 – 10:47pm
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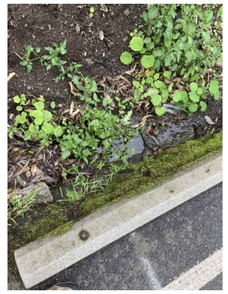
B

C

D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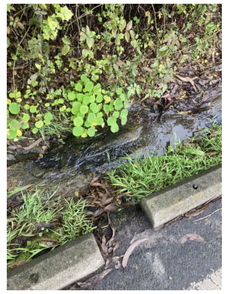
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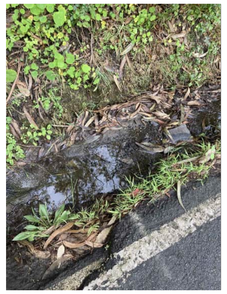
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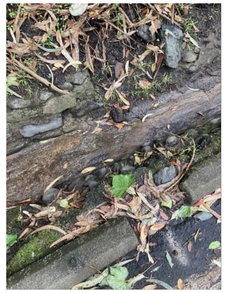
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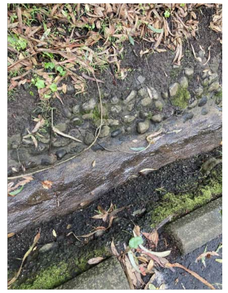
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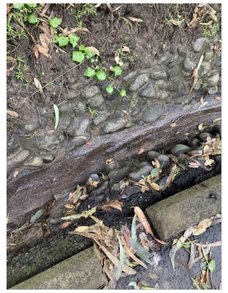
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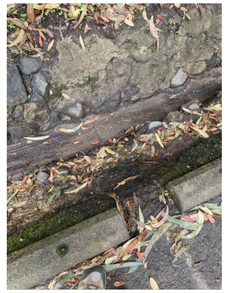
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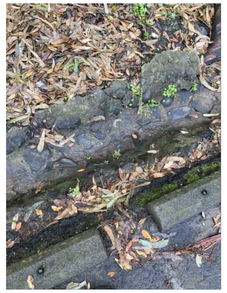
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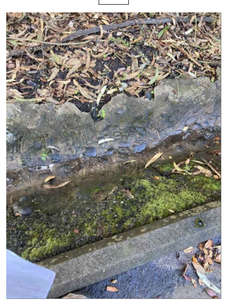
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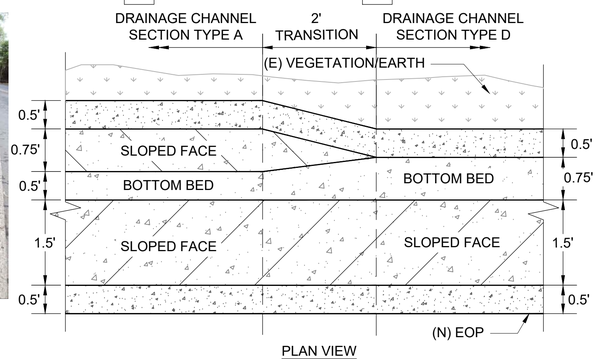
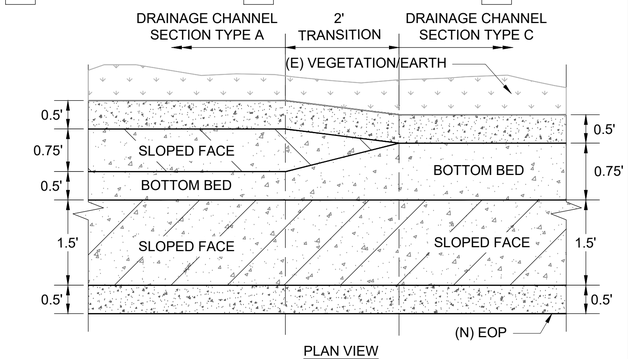


PLAN VIEW

TYPICAL DRAINAGE CHANNEL TRANSITION
TYPE A & D

1
C17



PLAN VIEW

TYPICAL DRAINAGE CHANNEL TRANSITION
TYPE A & C

2
C17

811 Know what's below. Call before you dig.

DESIGNED: J. YEE
CADD: J. YEE
TECH. REVIEW: G. PHILIPS
DATE: 07/07/2025

SUB SHEET NO.
C17

TITLE OF SHEET
EXISTING DRAINAGE CHANNEL CONDITION PHOTOGRAPHS
GOLDEN GATE NATIONAL RECREATIONAL AREA

DRAWING NO. 641 187495
PMIS/PKG NO. 186401
SHEET 19 OF 19

Jul 23, 2025 – 10:47pm
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