

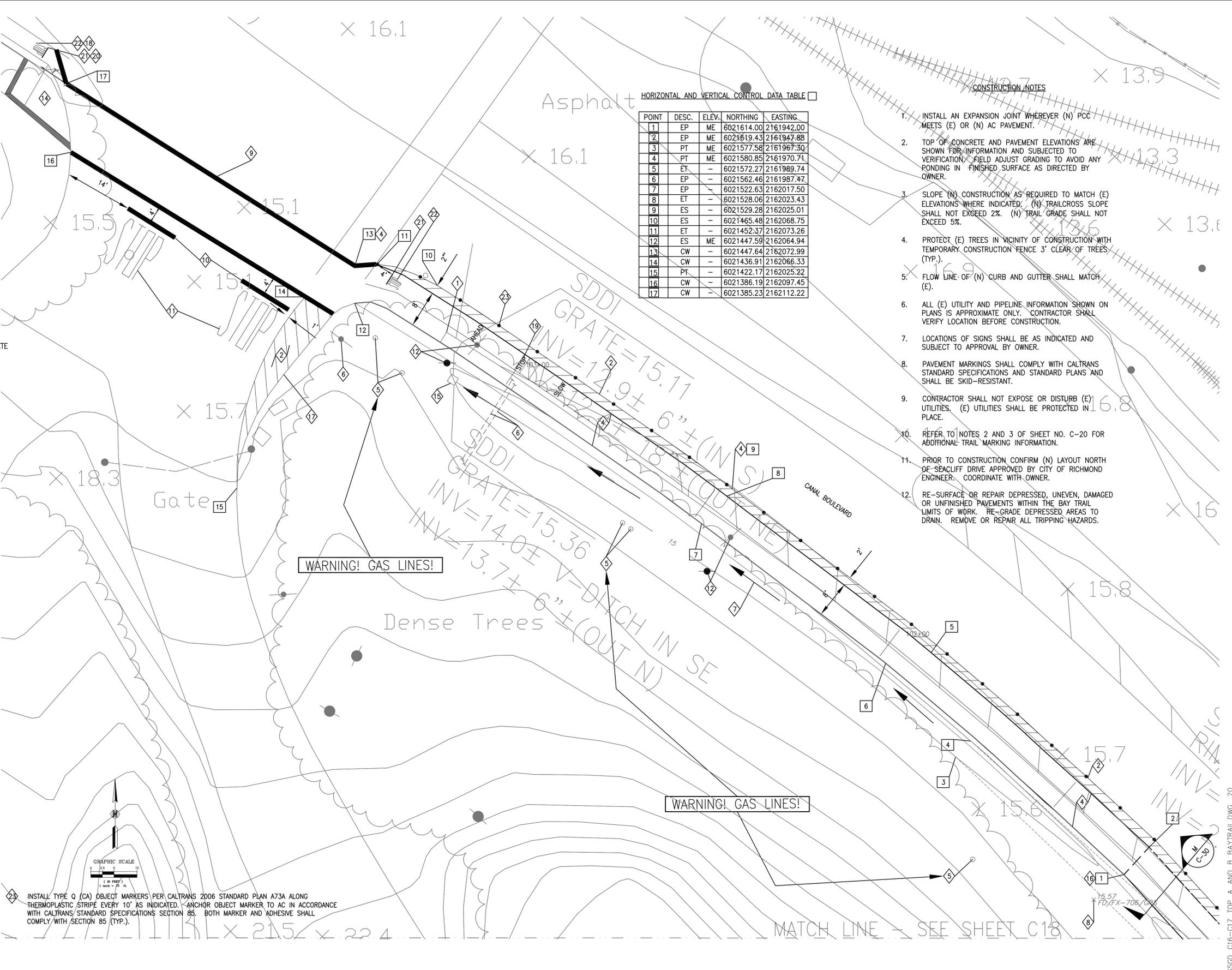
LEGEND ABBREVIATIONS

NOTE: FOR BALANCE OF LEGEND AND ABBREVIATIONS SEE BASE PLAN

- CONFORMANCE LINE AC ASPHALT CONCRETE
- TRAIL SHOULDER BC BEGINNING OF CURB
- CL CONTOUR LINE
- (N) CONSTRUCTION CR CURB RAMP
- CW CROSS WALK
- STATIONING LINE E EXISTING
- (E) SITE FEATURES EC END OF CURB
- ED EDGE OF DRAINAGE DITCH
- (E) FENCE EG EDGE OF GRAVEL
- SLOPE EL EDGE OF LANDING
- EP EDGE OF PAVEMENT
- ER END OF RAMP
- (N) CONTOUR LINE ES EDGE OF TRAIL SHOULDER
- VEGETATION DRIP LINE ET EDGE OF TRAIL
- (E) CONTOUR LINE GB GRADE BREAK
- (N) SIGN ME MATCH EXISTING
- (E) SIGN N NEW
- (N) OBJECT MARKER PCC PORTLAND CEMENT CONCRETE
- PLM PIPE LINE MARKER
- PT REFERENCE POINT
- S SIGN
- SD STORM DRAIN
- SDDI STORM DRAIN DROP INLET
- TOC TOP OF CURB

SITE PLAN KEY NOTES

- 1 REPLACE SDDI GRATE WITH (N) BICYCLE SAFE GRATE.
- 2 PAINT 4" WIDE THERMOPLASTIC STRIPE AND 4" WIDE THERMOPLASTIC MARKINGS ON 12" CENTERS AS INDICATED.
- 3 NOT USED.
- 4 PAINT 4" WIDE WHITE THERMOPLASTIC STRIPE AS INDICATED.
- 5 PROTECT GAS PIPING AND MARKERS IN PLACE - DO NOT DISTURB. LOCATIONS SHOWN ARE APPROXIMATE.
- 6 PROTECT (E) UTILITY AND UTILITY MARKERS IN PLACE - DO NOT DISTURB. LOCATIONS SHOWN ARE APPROXIMATE.
- 7 DRAINAGE DITCH FLOW LINE DIRECTION. GRADE TO DRAIN TO (E) SDDI.
- 8 PROTECT IN PLACE.
- 9 PAINT 12" WIDE WHITE SKID RESISTANT THERMOPLASTIC CROSSWALK MARKINGS.
- 10 PAINT 12" WIDE WHITE THERMOPLASTIC STOP LINE.
- 11 PAINT WHITE THERMOPLASTIC WORD "STOP" IN ACCORDANCE WITH 2006 CALTRANS STD. PLAN A24D, PAVEMENT MARKINGS - WORDS. PAVEMENT MARKING SHALL BE PERPENDICULAR TO AND CENTERED WITHIN TRAVELLED WAY. SEPERATE PAVEMENT MARKING AND STOP LINE BY 2'. ORIENT PAVEMENT MARKING AS SHOWN.
- 12 RELOCATE (E) SIGN 5' FROM EDGE OF SHOULDER. DO NOT INSTALL SIGN IN FLOW LINE OF DRAINAGE DITCH. INSTALL PER DETAIL B, SHEET C-28.
- 13 NOT USED.
- 14 CONSTRUCT (N) CURB RAMP PER DETAIL E, SHEET C-28.
- 15 (E) SDDI. PROTECT IN PLACE.
- 16 END OF (N) PAVEMENT CONSTRUCTION. CONFORM (N) PAVEMENT TO (E). PAINT EDGE OF (E) PAVEMENT TO DESIGNATE EDGE OF TRAIL AS INDICATED.
- 17 EDGE OF (E) PAVEMENT.
- 18 PAINT WHITE THERMOPLASTIC SKID RESISTANT "SLOW STOP AHEAD" IN ACCORDANCE WITH CALTRANS 2006 STANDARD PLAN A24D. CHARACTERS SHALL BE CENTERED WITHIN THE BIKE LANE AND ORIENTED FOR READING IN DIRECTION OF TRAVEL. EACH CHARACTER SHALL BE 4" WIDE AND 24" TALL SEPERATED BY 1". THE CHARACTER "I" SHALL BE 1" WIDE. MARKINGS SHALL START 50' IN ADVANCE OF END OF BIKE LANE. SPACING BETWEEN WORDS SHALL BE 4'.
- 19 PAINT WHITE THERMOPLASTIC SKID RESISTANT "SLOW STOP AHEAD" IN ACCORDANCE WITH CALTRANS 2006 STANDARD PLAN A24D. CHARACTERS SHALL BE CENTERED WITHIN 4' WIDE NORTH BOUND TRAIL LANE AND ORIENTED FOR READING IN DIRECTION OF TRAVEL. EACH CHARACTER SHALL BE 4" WIDE AND 24" TALL SEPERATED BY 1". THE CHARACTER "I" SHALL BE 1" WIDE. MARKINGS SHALL START 50' IN ADVANCE OF STOP LINE. SPACING BETWEEN WORDS SHALL BE 10'.
- 20 END OF BIKE LANE
- 21 PAINT 12" WIDE WHITE SKID RESISTANT STOP LINE, 3' LONG CENTERED IN BIKE LANE.
- 22 PAINT WHITE THERMOPLASTIC WORD "STOP" IN ACCORDANCE WITH 2006 CALTRANS STD. PLAN A24D, PAVEMENT MARKINGS - WORDS. PAVEMENT MARKING SHALL BE PERPENDICULAR TO AND CENTERED WITHIN TRAVELLED WAY. SEPERATE PAVEMENT MARKING AND STOP LINE BY 2'. ORIENT PAVEMENT MARKING AS SHOWN. CHARACTERS SHALL BE CENTERED WITHIN THE BIKE LANE AND ORIENTED FOR READING IN DIRECTION OF TRAVEL. EACH CHARACTER SHALL BE 6" WIDE AND 36" TALL, SEPERATED BY 3'.

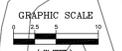


HORIZONTAL AND VERTICAL CONTROL DATA TABLE

POINT	DESC.	ELEV.	NORTHING	EASTING
1	EP	ME	6021614.00	2161942.00
2	EP	ME	6021619.43	2161947.88
3	PT	ME	6021577.58	2161967.30
4	PT	ME	6021580.85	2161970.71
5	ET	-	6021572.27	2161989.74
6	EP	-	6021562.46	2161987.47
7	EP	-	6021522.63	2162017.50
8	ET	-	6021528.06	2162023.43
9	ES	-	6021529.28	2162025.01
10	ES	-	6021465.48	2162068.75
11	ET	-	6021452.37	2162073.26
12	ES	ME	6021447.59	2162064.94
13	CW	-	6021447.64	2162072.99
14	CW	-	6021436.91	2162066.33
15	PT	-	6021422.17	2162025.22
16	CW	-	6021386.19	2162097.45
17	CW	-	6021385.23	2162112.22

CONSTRUCTION NOTES

1. INSTALL AN EXPANSION JOINT WHEREVER (N) PCC MEETS (E) OR (N) AC PAVEMENT.
2. TOP OF CONCRETE AND PAVEMENT ELEVATIONS ARE SHOWN FOR INFORMATION AND SUBJECT TO VERIFICATION. FIELD ADJUST GRADING TO AVOID ANY FONDING IN FINISHED SURFACE AS DIRECTED BY OWNER.
3. SLOPE (N) CONSTRUCTION AS REQUIRED TO MATCH (E) ELEVATIONS WHERE INDICATED. (N) TRAILCROSS SLOPE SHALL NOT EXCEED 2%. (N) TRAIL GRADE SHALL NOT EXCEED 5%.
4. PROTECT (E) TREES IN VICINITY OF CONSTRUCTION WITH TEMPORARY CONSTRUCTION FENCE 3' CLEAR OF TREES (TYP.).
5. FLOW LINE OF (N) CURB AND GUTTER SHALL MATCH (E).
6. ALL (E) UTILITY AND PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATION BEFORE CONSTRUCTION.
7. LOCATIONS OF SIGNS SHALL BE AS INDICATED AND SUBJECT TO APPROVAL BY OWNER.
8. PAVEMENT MARKINGS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS AND SHALL BE SKID-RESISTANT.
9. CONTRACTOR SHALL NOT EXPOSE OR DISTURB (E) UTILITIES. (E) UTILITIES SHALL BE PROTECTED IN PLACE.
10. REFER TO NOTES 2 AND 3 OF SHEET NO. C-20 FOR ADDITIONAL TRAIL MARKING INFORMATION.
11. PRIOR TO CONSTRUCTION CONFIRM (N) LAYOUT NORTH OF SEACLIFF DRIVE APPROVED BY CITY OF RICHMOND ENGINEER. COORDINATE WITH OWNER.
12. RE-SURFACE OR REPAIR DEPRESSED, UNEVEN, DAMAGED OR UNFINISHED PAVEMENTS WITHIN THE BAY TRAIL LIMITS OF WORK. RE-GRADE DEPRESSED AREAS TO DRAIN. REMOVE OR REPAIR ALL TRIPPING HAZARDS.



INSTALL TYPE O (CA) OBJECT MARKERS PER CALTRANS 2006 STANDARD PLAN A73A ALONG THERMOPLASTIC STRIPE EVERY 10' AS INDICATED. ANCHOR OBJECT MARKER TO AC IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS SECTION 85. BOTH MARKER AND ADHESIVE SHALL COMPLY WITH SECTION 85 (TYP.).

BENCHMARK ELEV.  
See General Notes  
APN:

**INSIGHT**  
Environmental, Engineering and Construction, Inc.

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(DBA GEOFON, INC.)  
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PHONE: (916) 923-3335  
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PROJECT:  
**BAY TRAIL PLAN  
FORMER SHIPYARD 3**  
PORT OF RICHMOND, CALIFORNIA.

DWG. TITLE:  
STRIPING, SIGNAGE, GRADING, AND  
DRAINAGE PLAN - NORTH OF  
SEACLIFF DRIVE - NORTH

DESIGNED: DN  
DRAWN: AM  
CHECKED: D. RATHNAYAKE, P.E.  
SUBMITTED: DAVID MARKS, P.G. RCE:



REVISION:

No.	DATE	BY	Description

DATE: 06-27-08  
SHEET NO:  
C-17

LEGEND

NOTE: FOR BALANCE OF LEGEND SEE BASE PLAN

- CONFORMANCE LINE
- TRAIL SHOULDER
- (N) CONSTRUCTION
- 62 + 00  
--- STATIONING LINE
- (E) SITE FEATURES
- x-x- (E) FENCE
- SLOPE
- 18.60  
--- (N) CONTOUR LINE
- VEGETATION DRIP LINE
- 15  
--- (E) CONTOUR LINE
- (N) SIGN
- (E) SIGN
- (N) DECOMPOSED GRANITE
- (N) OBJECT MARKER

ABBREVIATIONS

NOTE: FOR BALANCE OF ABBREVIATIONS SEE BASE PLAN

- AC ASPHALT CONCRETE
- BC BEGINNING OF CURB
- E EXISTING
- EC END OF CURB
- EDD EDGE OF DRAINAGE DITCH
- EP EDGE OF PAVEMENT
- ES EDGE OF TRAIL SHOULDER
- ET EDGE OF TRAIL
- GB GRADE BREAK
- ME MATCH EXISTING
- N NEW
- PLM PIPE LINE MARKER
- TOC TOP OF CURB

HORIZONTAL AND VERTICAL CONTROL DATA TABLE

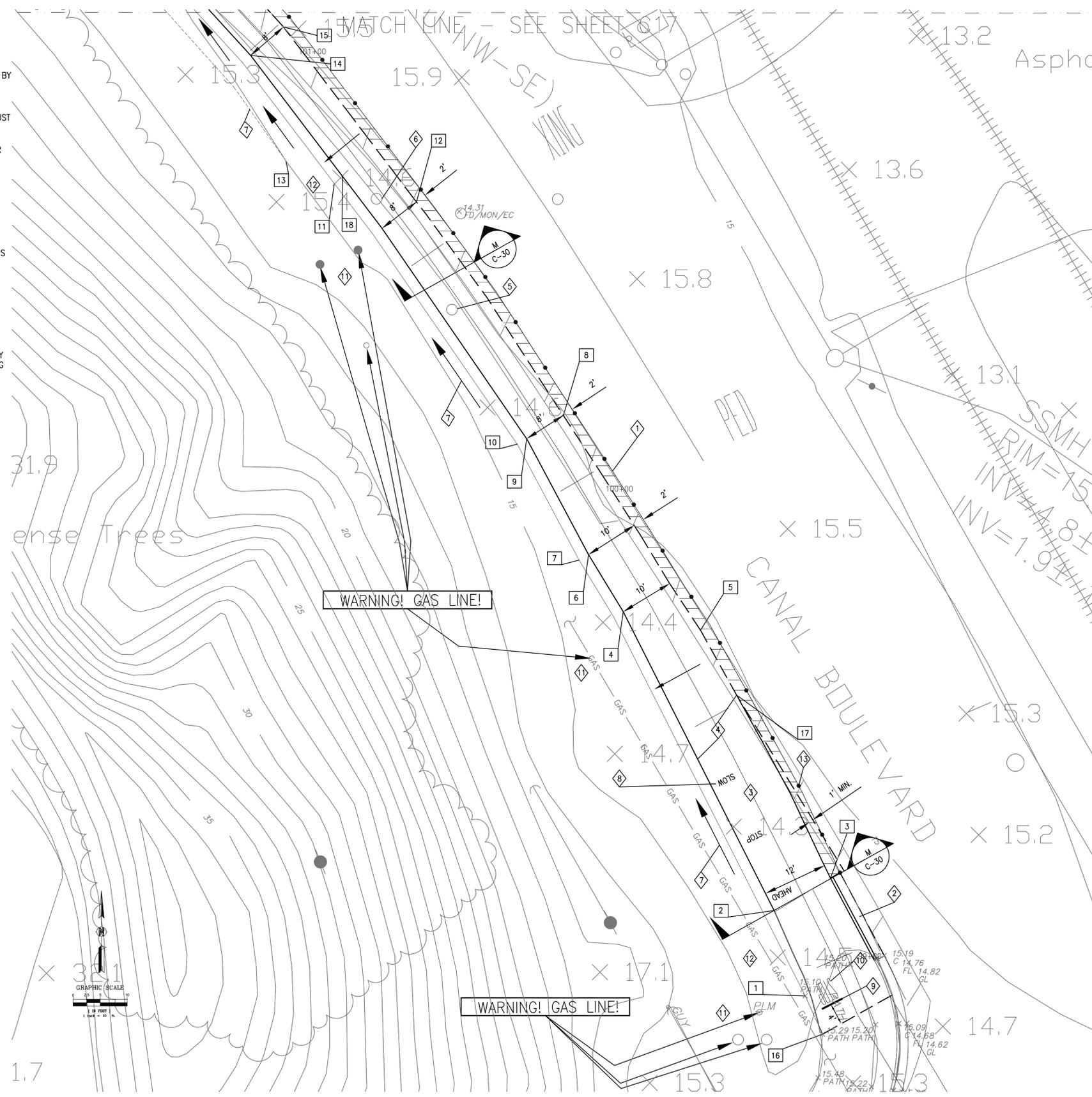
POINT	DESC.	ELEV.	NORTHING	EASTING
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2	EP	-	6021730.37	2161763.25
3	EP	ME	6021740.79	2161769.19
4	EP	-	6021702.53	2161818.16
5	EP	ME	6021716.79	2161814.77
6	EP	14.8	6021696.13	2161828.63
7	ES	14.76	6021694.39	2161827.64
8	EP	ME	6021691.48	2161854.22
9	EP	14.79	6021684.73	2161849.96
10	ES	14.75	6021682.99	2161848.96
11	ES	14.6	6021649.21	2161896.85
12	EP	ME	6021664.37	2161893.46
13	EDD	15.0	6021640.29	2161900.96
14	EP	-	6021633.76	2161920.40
15	EP	ME	6021639.80	2161925.62
16	EP/ES	ME	6021739.32	2161740.51
17	EP	ME	6021731.53	2161788.14
18	EP	14.64	6021650.67	2161898.22

CONSTRUCTION NOTES

1. INSTALL AN EXPANSION JOINT WHEREVER (N) PCC MEETS (E) OR (N) AC PAVEMENT.
2. TOP OF CONCRETE AND PAVEMENT ELEVATIONS ARE SHOWN FOR INFORMATION AND SUBJECT TO VERIFICATION. FIELD ADJUST GRADING TO AVOID ANY PONDING IN FINISHED SURFACE AS DIRECTED BY OWNER.
3. SLOPE (N) CONSTRUCTION AS REQUIRED TO MATCH (E) ELEVATIONS WHERE INDICATED. (N) TRAILCROSS SLOPE SHALL NOT EXCEED 2%. (N) TRAIL GRADE SHALL NOT EXCEED 5%. FIELD ADJUST ELEVATIONS AS NECESSARY TO MEET (N) CONSTRUCTION CRITERIA.
4. PROTECT (E) TREES IN VICINITY OF CONSTRUCTION WITH TEMPORARY CONSTRUCTION FENCE 3' CLEAR OF TREES (TYP.).
5. FLOW LINE OF (N) CURB AND GUTTER SHALL MATCH (E).
6. ALL (E) UTILITY AND PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS BEFORE CONSTRUCTION.
7. LOCATIONS OF SIGNS SHALL BE AS INDICATED AND SUBJECT TO APPROVAL BY OWNER.
8. PAVEMENT MARKINGS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS AND SHALL BE SKID-RESISTANT EXCEPT WHERE INDICATED.
9. (N) AC SHALL BE FLUSH WITH (N) PCC CURB RAMP.
10. REFER TO NOTES 2 AND 3 OF SHEET NO. C-20 FOR ADDITIONAL TRAIL MARKING INFORMATION.
11. PRIOR TO CONSTRUCTION CONFIRM (N) LAYOUT NORTH OF SEACLIFF DRIVE APPROVED BY CITY OF RICHMOND ENGINEER. COORDINATE WITH OWNER.
12. RE-SURFACE OR REPAIR DEPRESSED, UNEVEN, DAMAGED OR UNFINISHED PAVEMENTS WITHIN THE BAY TRAIL LIMITS OF WORK. RE-GRADE DEPRESSED AREAS TO DRAIN. REMOVE OR REPAIR ALL TRIPPING HAZARDS.

SITE PLAN KEY NOTES

- 1 PAINT 4" WIDE WHITE THERMOPLASTIC STRIPE AND 4" WIDE WHITE THERMOPLASTIC MARKINGS ON 12" CENTERS AS INDICATED.
- 2 INSTALL (N) PCC CURB AND GUTTER. MATCH (E) CURB AND GUTTER DIMENSIONS, REINFORCEMENT AND FINISH. (N) CURB AND GUTTER SHALL FIT FLUSH AGAINST (E) CURB AND GUTTER. INSTALL PREMOLDED EXPANSION JOINT FILLER STRIPS AT JOINTS. INSTALL 3-#4 DOWELS (REINFORCING STEEL) AT JOINTS MAINTAINING 3" OF CLEARANCE WITH SURFACE. CORE DRILL HOLES INTO (E) CURB AND GUTTER. EPOXY DOWELS INTO PLACE. SET TOP OF GUTTER SLOPE TO FIT SURFACE ELEVATION OF ADJACENT ROADWAY. DEPRESS CURB TO MEET (E) GRADE AT POINT 3.
- 3 CONSTRUCT (N) BAY TRAIL PER DETAIL M, SHEET C-30.
- 4 PAINT 4" WIDE WHITE THERMOPLASTIC STRIPE DESIGNATING EDGES OF BAY TRAIL.
- 5 EDMUB UTILITY BOX - PROTECT IN PLACE. CONFORM (N) TRAIL SURFACE ELEVATION TO UTILITY BOX RIM.
- 6 (E) UTILITY BOX - PROTECT IN PLACE. CONFORM (N) TRAIL SURFACE ELEVATION TO UTILITY BOX RIM.
- 7 REGRADE (E) DRAINAGE DITCH TO DRAIN TO (E) SD SHOWN ON SHEET C-17.
- 8 PAINT WHITE THERMOPLASTIC SKID RESISTANT "SLOW STOP AHEAD" IN ACCORDANCE WITH CALTRANS 2006 STANDARD PLAN A24D. CHARACTERS SHALL BE CENTERED WITHIN 6' WIDE SOUTH BOUND TRAIL LANE AND ORIENTED FOR READING IN DIRECTION OF TRAVEL. EACH CHARACTER SHALL BE 4" WIDE AND 24" TALL SEPERATED BY 1". THE CHARACTER "I" SHALL BE 1" WIDE. MARKINGS SHALL START 50' IN ADVANCE OF STOP LINE. SPACING BETWEEN WORDS SHALL BE 4'.
- 9 PAINT 12" WIDE WHITE SKID RESISTANT THERMOPLASTIC STOP LINE, 5' LONG CENTERED IN TRAIL LANE.
- 10 PAINT WHITE THERMOPLASTIC WORD "STOP" IN ACCORDANCE WITH 2006 CALTRANS STD. PLAN A24D. PAVEMENT MARKINGS - WORDS. PAVEMENT MARKINGS SHALL BE PERPENDICULAR TO AND CENTERED WITHIN TRAVELLED WAY. SEPERATE PAVEMENT MARKING AND STOP LINE BY 2'. ORIENT PAVEMENT MARKING AS SHOWN. CHARACTERS SHALL BE CENTERED WITHIN TRAIL LANE AND ORIENTED FOR READING IN DIRECTION OF TRAVEL. EACH CHARACTER SHALL BE 12" WIDE AND 72" TALL SEPERATED BY 3'.
- 11 PROTECT PIPELINES AND ASSOCIATED MARKERS IN PLACE.
- 12 TRIM BACK VEGETATION TO ENSURE SIGN VISIBILITY A MINIMUM OF 10' FROM EDGE OF (N) TRAIL.
- 13 INSTALL TYPE Q (CA) OBJECT MARKERS PER CALTRANS 2006 STANDARD PLAN A73A ALONG THERMOPLASTIC STRIPE EVERY 10' AS INDICATED. ANCHOR OBJECT MARKER TO AC IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS SECTION 85. BOTH MARKER AND ADHESIVE SHALL COMPLY WITH SECTION 85 (TYP.).



BENCHMARK ELEV.  
See General Notes

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FORMER SHIPYARD 3**  
PORT OF RICHMOND, CALIFORNIA.

DWG. TITLE:

STRIPING, SIGNAGE, GRADING, AND  
DRAINAGE PLAN - NORTH OF SEA  
CLIFF DRIVE - SOUTH

DESIGNED: DN  
DRAWN: AM  
CHECKED: D. RATHNAYAKE, P.E.  
SUBMITTED: DAVID MARKS, P.G.

SCALE:  
AS SHOWN

RCE:



REVISION:

No.	DATE	BY	Description

DATE: 06-27-08  
SHEET NO:  
C-18