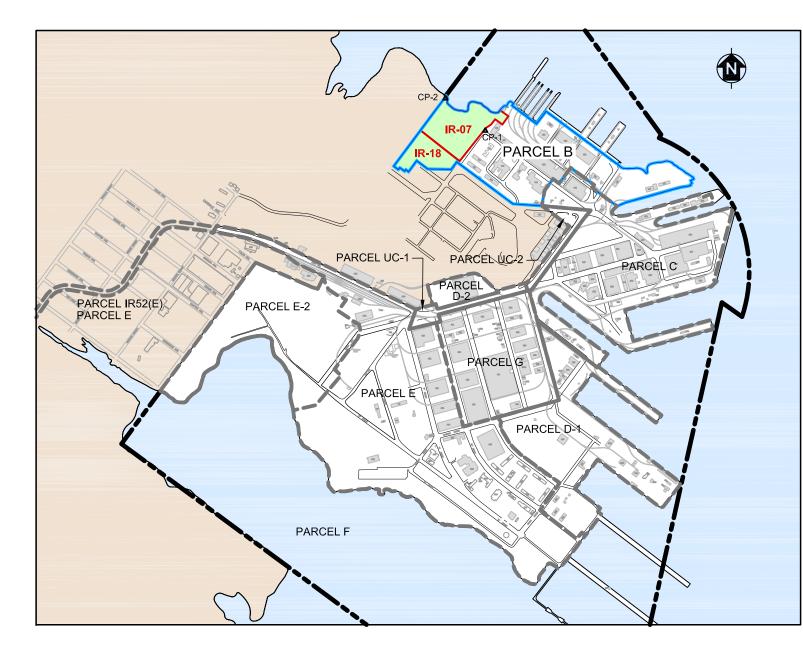
ATTACHMENT 1 DESIGN CONSTRUCTION DRAWINGS

HUNTERS POINT SHIPYARD SAN FRANCISCO, CALIFORNIA **INSTALLATION RESTORATION SITES 7 AND 18** SOIL COVER AND SHORELINE REVETMENT **DRAFT DESIGN DRAWINGS**

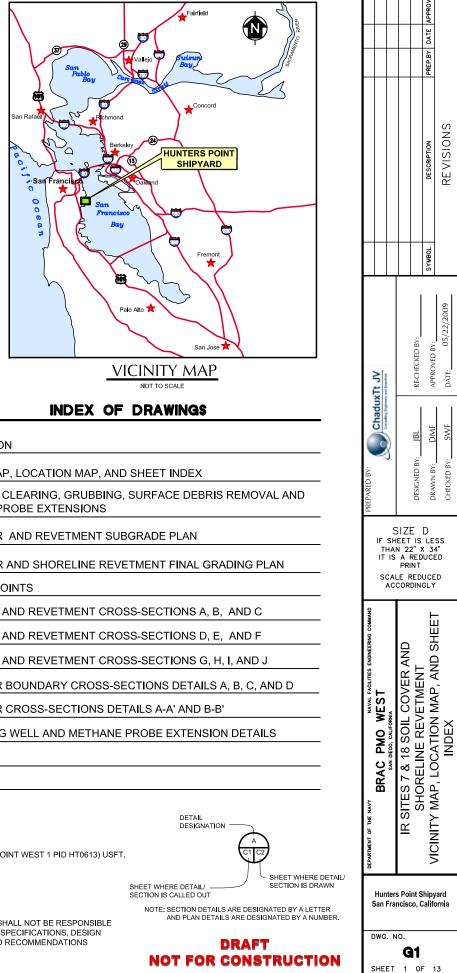


LOCATION MAP

| 600' | 0 | 600 | 1200' |
|------|--------|-----------|-------|
| | SCALE: | 1" = 600' | |

| SURVEY CONTROL POINTS | | | | | | |
|-----------------------|------------|-----------|-----------|--|--|--|
| Control Point | Easting | Northing | Elevation | | | |
| CP-1 | 1460168.99 | 453718.89 | 11.76 | | | |
| CP-2 | 1459671.50 | 454121.67 | 5.81 | | | |
| | | | | | | |

NOTE: OFF-SITE TOPOGRAPHY HAS BEEN SHOWN AS REFERENCED BUT HAS NOT BEEN TIED TO THE SITE TOPOGRAPHY. EXISTING TOPOGRAPHY ESTIMATED PRECISION ± 1' DUE TO MINOR REGRADING OF THE SITE FOLLOWING AS SHOWN BASELINE SURVEY.



| DWG | DESCRIPTION |
|--------|---|
| G1 | VICINITY MAP, LOCATION |
| C1 | SITE PLAN - CLEARING, (WELL AND PROBE EXTEI |
| C2 | SOIL COVER AND REVE |
| C3 | SOIL COVER AND SHORE |
| C4 | CONTROL POINTS |
| C5 | SHORELINE AND REVET |
| C6 | SHORELINE AND REVET |
| C7 | SHORELINE AND REVET |
| C8 | SOIL COVER BOUNDARY |
| C9 | SOIL COVER CROSS-SEC |
| C10 | MONITORING WELL AND |
| C11 | DETAILS I |
| C12 | DETAILS II |
| | |

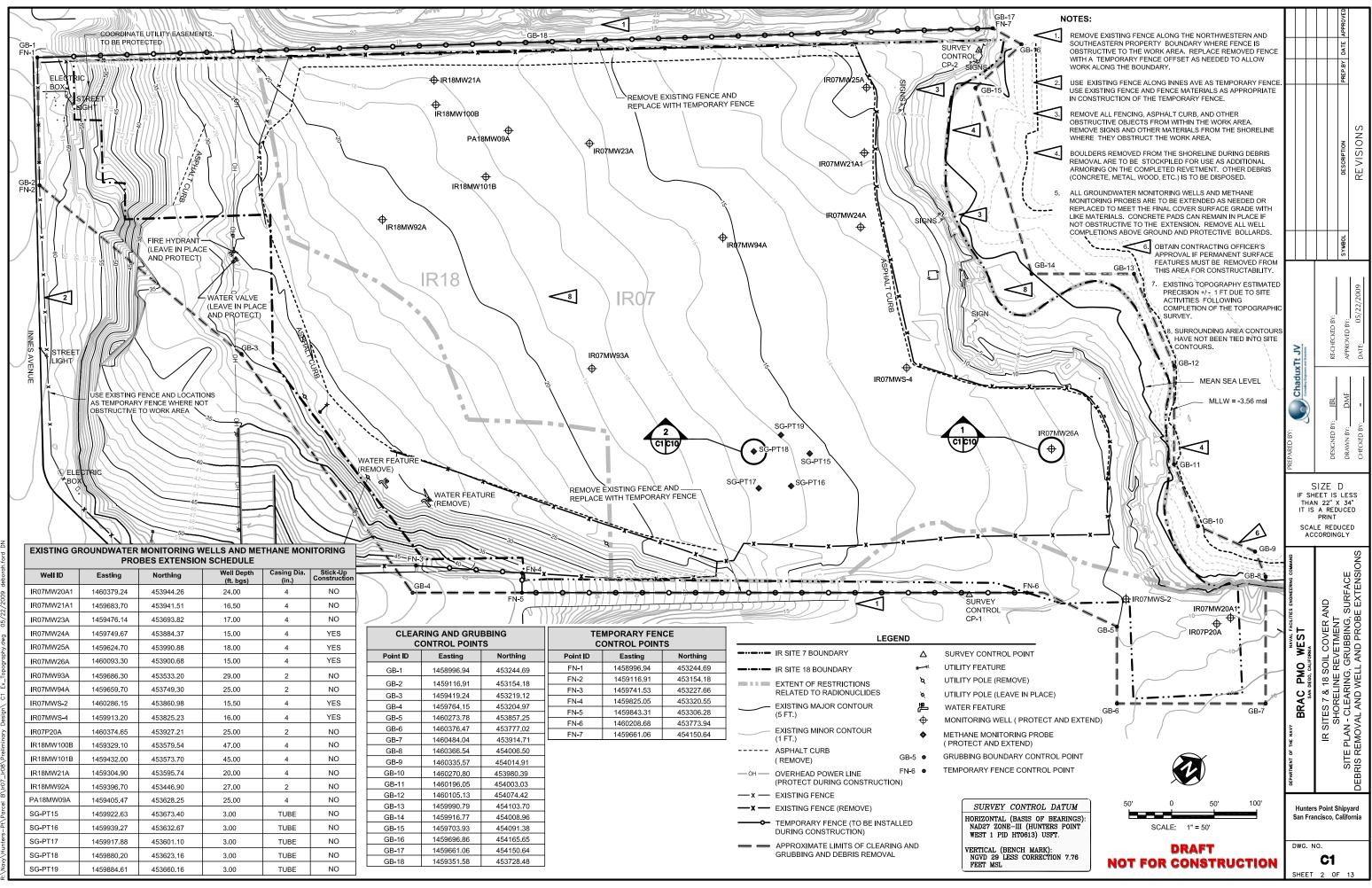
BASIS OF BEARINGS AND ELEVATION

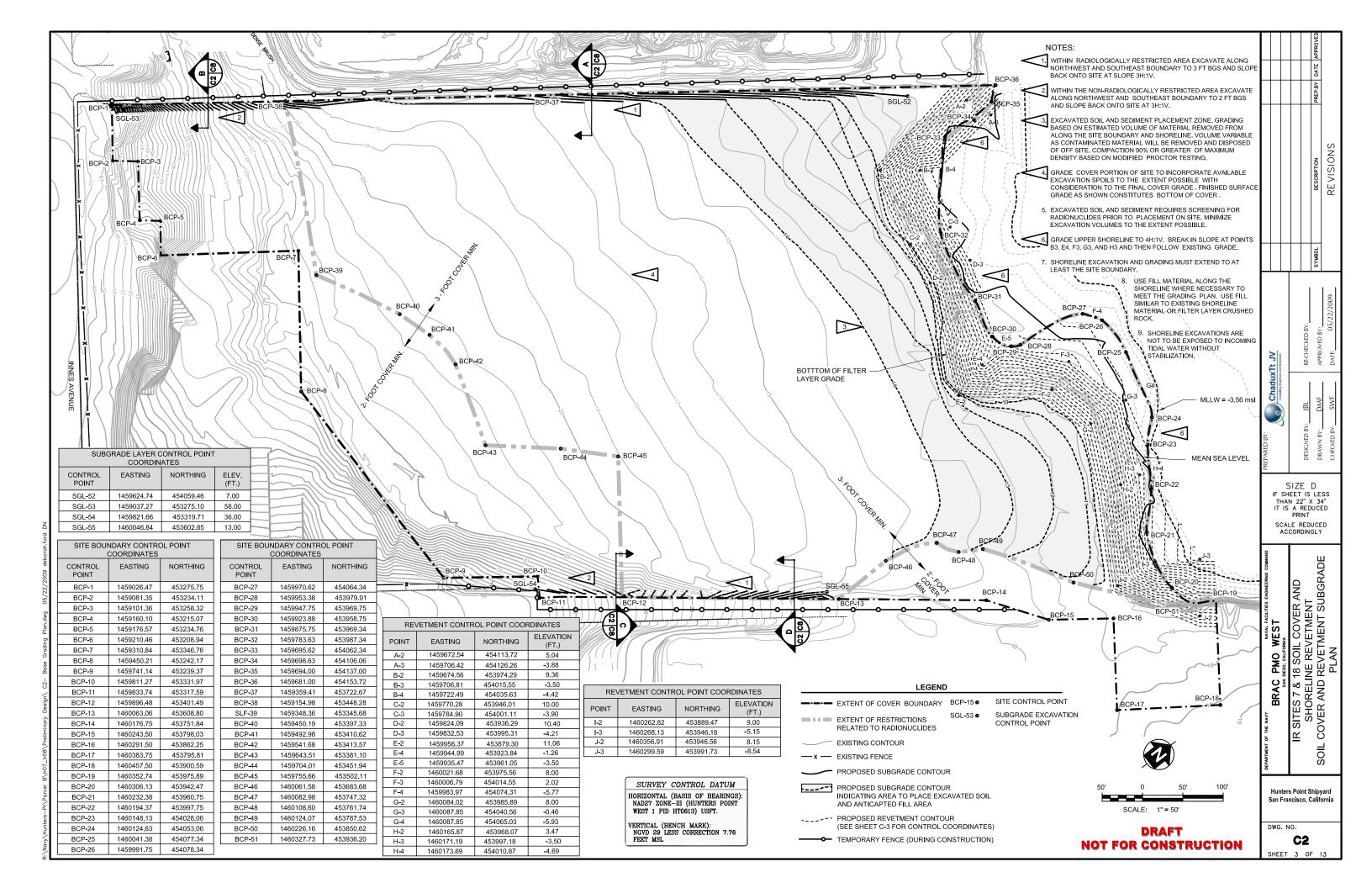
HORIZONTAL: NAD 1927 ZONE-III (HUNTERS POINT WEST 1 PID HT0613) USFT. VERTICAL

NGVD 29 LESS CORRECTION 7 76 FEET MSL

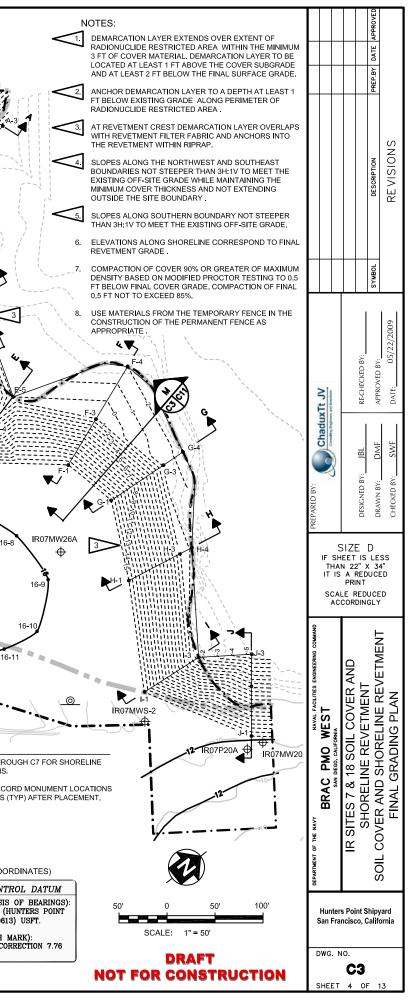
LIMITS OF RESPONSIBILITY

THE DESIGNER AND ITS SUBCONTRACTORS SHALL NOT BE RESPONSIBLE FOR VARIANCES FROM THE CONSTRUCTION SPECIFICATIONS, DESIGN DRAWINGS, AND OTHER REQUIREMENTS AND RECOMMENDATIONS UNAPPROVED BY THE DESIGNER.



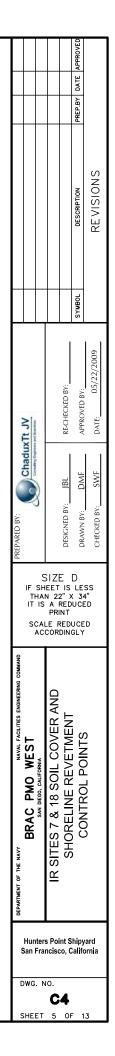


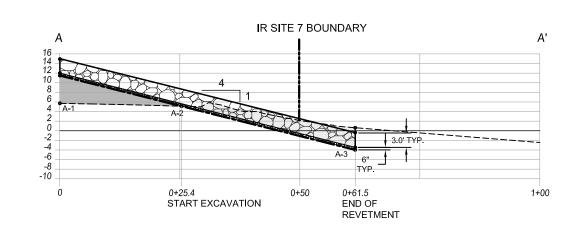
| SPHUT STOLES STO | | |
|--|--|--|
| 24-1 25-1 25-1 25-1 25-1 25-1 25-1 25-1 25 | 1 21-1 21-2 21-2 21-2 21-2 21-3 PA18MW09A IR07MW23A ↓ IR07MW23A ↓ I | 17-1 16-1 15-2 15-3 |
| | 9 1 26-2 26-2 26-2 26-2 26-2 26-3 1 1 1 1 1 1 1 1 1 1 1 1 1 | IR07MW21A1 19-3 19-3 10-3 |
| | 25-4 25-4 24-3 | 21-6 18-2 17-5 16-5 |
| | | 20-5 21-7 21-7 21-7 21-7 21-7 21-7 21-7 21-7 |
| REVETMENT CONTROL POINT COORDINATES | | 23-4 22-5 20-6 20-6 20-6 20-6 20-6 20-6 20-6 20-6 |
| POINT EASTING NORTHING ELEVATION (FT.) | x - x - x | 9 19-8 19-8 19-8 19-8 19-8 19-8 19-8 19- |
| A-1 1459648.27 454104.74 15.00 A-3 1459706.42 454126.26 -0.38 B-1 1459669.87 453968.27 15.00 | | |
| B-3 1459706.81 454015.55 0.00 B-4 1459722.49 454035.63 -0.92 | DRAINAGE SWALE CONTROL POINT COORDINATES | NOTES (cont.) |
| C-1 1459769.00 453941.19 15.00 C-3 1459784.90 454001.11 -0.40 C-4 145000.02 45002.02 4000.02 | POINT EASTING NORTHING ELEVATION FT. | DRAINAGE SWALE SLOPES 3H:1V ON SIDE FACING UPGRADIENT AND 10H:1V ON SIDE FACING DOWNGRADIENT. 10. REFER TO C5 THROU CROSS SECTIONS. |
| D-1 1459823.63 453933.06 12.00 D-3 1459832.53 453995.31 -0.71 E-1 1459956.62 453878.33 15.00 | DS-1 1459169.98 453390.68 27.40 DS-2 1459209.43 453386.50 27.43 | PLACE COMPOSITE TURF REINFORCED MATTING (CTRM) ALONG WATERCOURSE TO ELEVATION 1 FT ABOVE WATER COURSE. |
| E-4 1459944.99 453973.33 13.00 E-5 1459945.47 453961.05 0.00 | DS-3 1459347.70 453339.84 26.00 7 7 11 11 DS-4 1459771.01 453384.65 25.51 25.51 25.51 25.51 | 1 1 011 |
| F-1 1460026.69 453962.45 15.00 F-3 1460006.79 454014.55 1.02 | DS-5 1459988.70 453515.24 20.00 | LEGEND |
| F-41459983.97454074.31-2.27G-11460083.25453974.9115.00 | REVETMENT CROSS SECTION LOCATION | EXTENT OF COVER BOUNDARY A-1 • REVETMENT CONTROL POINT EXTENT OF RESTRICTIONS 22-5 • FINAL COVER CONTROL POINT (SEE SHEET C4 FOR COOR |
| G-3 1460087.85 454040.56 -1.46 G-4 1460087.85 454065.03 -2.43 U/4 140004044 15000044 150000 | CROSS SECTION SHEET CROSS SECTION SHEET A C-5 F C-6 | RELATED TO RADIONUCLIDES ϕ MONITORING WELL SURVEY CONTR |
| H-1 1460160.41 453938.16 15.00 H-3 1460171.19 453997.18 0.00 L14 4100172.00 4100172.00 1.40 | A C-5 F C-6 B C-5 G C-7 C C-5 H C-7 | EXISTING CONTOUR METHANE MONITORING PROBE HORIZONTAL (BASIS NAD27 ZONE-III (HU WEST 1 PID HT0613 PROPOSED FINAL COVER CONTOUR IIIIIIIIIIIIIIII DRAINAGE SWALE WEST 1 PID HT0613 |
| H-4 1460173.69 454010.87 -1.19 I-1 1460261.91 453879.72 15.00 I-3 1460268.13 453946.18 -1.65 | D C-6 I C-7 E C-6 J C-7 | VERTICAL (BENCH M NGVD 29 LESS COR |
| I-3 1460208.13 453940.18 -1.05 J-1 1460366.54 453939.02 15.00 J-3 146029.59 453991.73 -5.04 | | COMPOSITE TURF REINFORCED DS-1 DRAINAGE CONTROL POINT |
| | | MATTING (CTRM) |



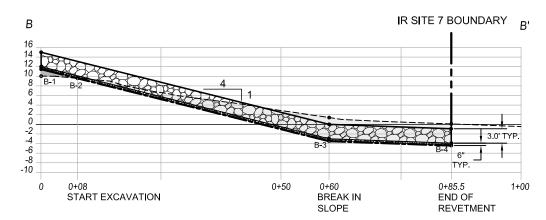
| ADDITIONAL REVETMENT BOUNDARY CONTROL POINT COORDINATES | | | | | | | |
|--|------------|-----------|-----------|--|--|--|--|
| POINT | EASTING | NORTHING | ELEVATION | | | | |
| 15-1 | 1459520.68 | 453921.63 | 15.00 | | | | |
| 15-2 | 1459598.04 | 454005.55 | 15.00 | | | | |
| 15-3 | 1459635.06 | 454060.88 | 15.00 | | | | |
| 15-4 | 1459649.00 | 454102.60 | 15.00 | | | | |
| 16-1 | 1459498.70 | 453889.15 | 16.00 | | | | |
| 16-2 | 1459554.22 | 453925.04 | 16.00 | | | | |
| 16-3 | 1459613.74 | 453919.42 | 16.00 | | | | |
| 16-4 | 1459786.16 | 453901.18 | 16.00 | | | | |
| 16-5 | 1459906.78 | 453874.85 | 16.00 | | | | |
| 16-6 | 1459981.12 | 453855.29 | 16.00 | | | | |
| 16-7 | 1460007.31 | 453859.17 | 16.00 | | | | |
| 16-8 | 1460051.68 | 453874.67 | 16.00 | | | | |
| 16-9 | 1460107.81 | 453872.50 | 16.00 | | | | |
| 16-10 | 1460143.12 | 453830.20 | 16.00 | | | | |
| 16-11 | 1460136.64 | 453791.86 | 16.00 | | | | |
| 16-12 | 1460075.35 | 453658.66 | 16.00 | | | | |
| 17-1 | 1459432.35 | 453803.90 | 17.00 | | | | |
| 17-2 | 1459490.07 | 453833.78 | 17.00 | | | | |
| 17-3 | 1459588.62 | 453838.87 | 17.00 | | | | |
| 17-4 | 1459717.87 | 453827.97 | 17.00 | | | | |
| 17-5 | 1459837.97 | 453813.87 | 17.00 | | | | |
| 17-6 | 1460036.90 | 453782.85 | 17.00 | | | | |
| 17-7 | 1460058.39 | 453771.68 | 17.00 | | | | |
| 17-8 | 1460068.91 | 453755.49 | 17.00 | | | | |
| 17-9 | 1460062.66 | 453714.03 | 17.00 | | | | |
| 17-10 | 1460056.49 | 453652.90 | 17.00 | | | | |
| 18-1 | 1459393.06 | 453753.40 | 18.00 | | | | |
| 18-2 | 1459720.03 | 453743.38 | 18.00 | | | | |
| 18-3 | 1459914.16 | 453730.30 | 18.00 | | | | |
| 18-4 | 1460004.30 | 453706.46 | 18.00 | | | | |
| 18-5 | 1460014.51 | 453699.19 | 18.00 | | | | |
| 18-6 | 1460024.20 | 453673.62 | 18.00 | | | | |
| 18-7 | 1460026.72 | 453599.13 | 18.00 | | | | |
| 19-1 | 1459365.11 | 453710.21 | 19.00 | | | | |
| 19-2 | 1459502.15 | 453699.99 | 19.00 | | | | |
| 19-3 | 1459548.38 | 453692.75 | 19.00 | | | | |
| 19-4 | 1459808.48 | 453660.72 | 19.00 | | | | |
| 19-5 | 1459916.67 | 453644.22 | 19.00 | | | | |
| 19-6 | 1459967.32 | 453620.60 | 19.00 | | | | |
| 19-7 | 1459987.56 | 453603.61 | 19.00 | | | | |
| 19-8 | 1460003.67 | 453583.53 | 19.00 | | | | |
| 19-9 | 1460011.65 | 453563.23 | 19.00 | | | | |

| ADDITIONAL REVETMENT BOUNDARY CONTROL POINT COORDINATES | | | | | | | |
|--|------------|-----------|-----------|--|--|--|--|
| POINT | EASTING | NORTHING | ELEVATION | | | | |
| 20-1 | 1459220.06 | 453534.21 | 20.00 | | | | |
| 20-2 | 1459320.94 | 453636.06 | 20.00 | | | | |
| 20-3 | 1459460.27 | 453652.11 | 20.00 | | | | |
| 20-4 | 1459527.12 | 453648.09 | 20.00 | | | | |
| 20-5 | 1459798.05 | 453605.24 | 20.00 | | | | |
| 20-6 | 1459965.66 | 453560.11 | 20.00 | | | | |
| 20-7 | 1459999.24 | 453546.18 | 20.00 | | | | |
| 21-1 | 1459195.51 | 453486.80 | 21.00 | | | | |
| 21-2 | 1459245.79 | 453519.42 | 21.00 | | | | |
| 21-3 | 1459368.76 | 453577.09 | 21.00 | | | | |
| 21-4 | 1459462.80 | 453600.02 | 21.00 | | | | |
| 21-5 | 1459527.97 | 453602.01 | 21.00 | | | | |
| 21-6 | 1459633.58 | 453590.31 | 21.00 | | | | |
| 21-7 | 1459796.10 | 453561.37 | 21.00 | | | | |
| 21-8 | 1459988.09 | 453532.65 | 21.00 | | | | |
| 22-1 | 1459180.07 | 453463.88 | 22.00 | | | | |
| 22-2 | 1459390.84 | 453521.86 | 22.00 | | | | |
| 22-3 | 1459494.17 | 453541.55 | 22.00 | | | | |
| 22-4 | 1459535.33 | 453543.17 | 22.00 | | | | |
| 22-5 | 1459905.43 | 453501.33 | 22.00 | | | | |
| 22-6 | 1459979.74 | 453518.09 | 22.00 | | | | |
| 23-1 | 1459160.56 | 453440.29 | 23.00 | | | | |
| 23-2 | 1459386.27 | 453475.43 | 23.00 | | | | |
| 23-3 | 1459542.26 | 453490.87 | 23.00 | | | | |
| 23 - 4 | 1459864.99 | 453458.90 | 23.00 | | | | |
| 23 - 5 | 1459975.16 | 453509.34 | 23.00 | | | | |
| 24-1 | 1459153.99 | 453430.19 | 24.00 | | | | |
| 24-2 | 1459230.88 | 453435.41 | 24.00 | | | | |
| 24-3 | 1459550.50 | 453437.92 | 24.00 | | | | |
| 24-4 | 1459806.98 | 453434.21 | 24.00 | | | | |
| 24-5 | 1459879.87 | 453443.41 | 24.00 | | | | |
| 24 - 6 | 1459965.77 | 453499.12 | 24.00 | | | | |
| 25-1 | 1459145.58 | 453418.93 | 25.00 | | | | |
| 25-2 | 1459230.41 | 453423.80 | 25.00 | | | | |
| 25-3 | 1459377.01 | 453393.57 | 25.00 | | | | |
| 25-4 | 1459501.67 | 453385.79 | 25.00 | | | | |
| 26-5 | 1459759.83 | 453408.33 | 25.00 | | | | |
| 25-6 | 1459815.85 | 453402.89 | 25.00 | | | | |
| 26-1 | 1459254.10 | 453391.12 | 26.00 | | | | |
| 26-2 | 1459343.27 | 453349.78 | 26.00 | | | | |
| 26-3 | 1459421.08 | 453330.25 | 26.00 | | | | |
| 26 - 4 | 1459648.81 | 453333.20 | 26.00 | | | | |
| 26 - 5 | 1459741.55 | 453348.98 | 26.00 | | | | |
| 26-6 | 1459791.40 | 453372.70 | 26.00 | | | | |





| | | | ELEVATION | | | | |
|-------|------------|-----------|-------------------|------------------|------------------------|---------------------------|--|
| POINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER | |
| A-1 | 1459648.27 | 454104.74 | 1.71 | 15.00 | 12.00 | 11.50 | |
| A-2 | 1459672.54 | 454113.72 | 5.04 | - | - | - | |
| A-3 | 1459706.42 | 454126.26 | 0.62 | -0.38 | -3.38 | -3.88 | |



REVETMENT

| | | | ELEVATION | | | |
|-------|------------|-----------|-------------------|------------------|------------------------|---------------------------|
| POINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER |
| B-1 | 1459669.87 | 453968.27 | 10.04 | 15.00 | 12.00 | 11.50 |
| B-2 | 1459674.56 | 453974.29 | 9.36 | | - | - |
| B-3 | 1459706.81 | 454015.55 | 1.41 | 0.00 | -3.00 | -3.50 |
| B-4 | 1459722.49 | 454035.63 | 0.08 | -0.92 | -3.92 | -4.42 |

| | | | ELEVATION | | | |
|-------|------------|-----------|-------------------|------------------|------------------------|---------------------------|
| POINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER |
| C-1 | 1459769.00 | 453941.19 | 10.67 | 15.00 | 12.00 | 11.50 |
| C-2 | 1459770.28 | 453946.01 | 10.00 | | - | - |
| C-3 | 1459784.90 | 454001.11 | 0.60 | -0.40 | -3.40 | -3.90 |

NOTE:

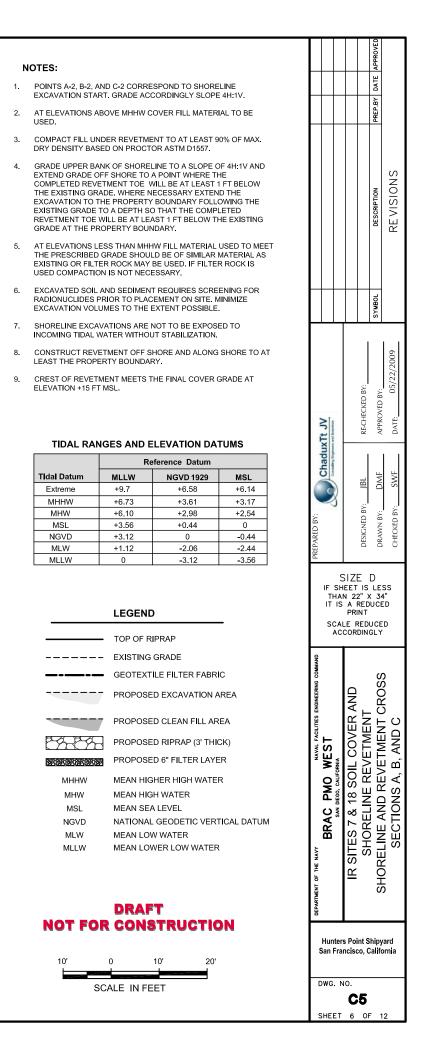
ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

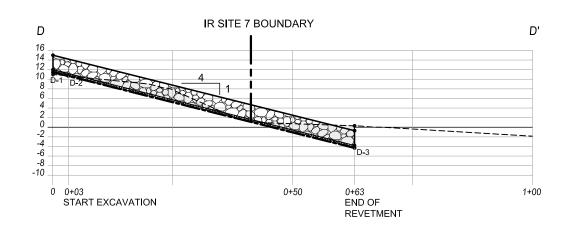
С

C-1

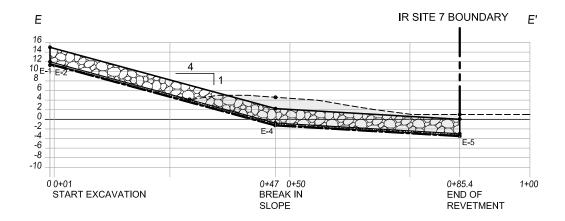
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16 14

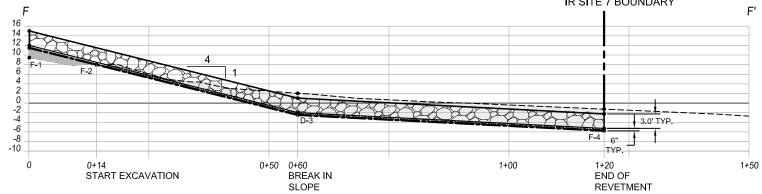




| | | | ELEVATION | | | |
|-------|------------|-----------|-------------------|------------------|------------------------|---------------------------|
| POINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER |
| D-1 | 1459823.63 | 453933.06 | 11.00 | 15.00 | 12.00 | 11.50 |
| D-2 | 1459824.09 | 453936.29 | 10.40 | - | - | - |
| D-3 | 1459832.53 | 453995.31 | 0.30 | -0.71 | -3.71 | -4.21 |



| | | | ELEVATION | | | | |
|-------|------------|-----------|-------------------|------------------|------------------------|---------------------------|--|
| POINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER | |
| E-1 | 1459956.62 | 453878.33 | 11.28 | 15.00 | 12.00 | 11.50 | |
| E-2 | 1459956.37 | 453879.30 | 11.06 | - | - | | |
| E-3 | 1459949.41 | 453906.53 | 4.16 | - | - | | |
| E-4 | 1459944.99 | 453923.84 | 4.59 | 2.23 | -0.76 | -1.26 | |
| E-5 | 1459935.47 | 453961.05 | 1.00 | 0.00 | -3.00 | -3.50 | |

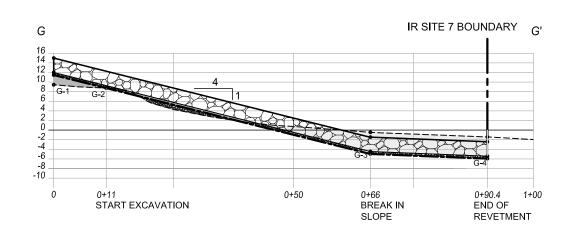


IR SITE 7 BOUNDARY

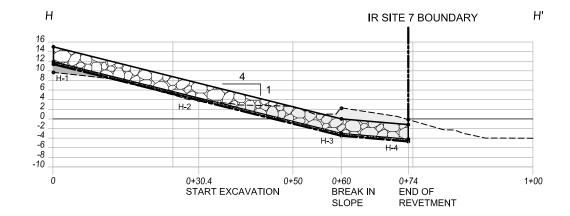
| | | | | | | | NOTES: | | | | | | APPROVED |
|--|-----------------------|----------|--|---|---------------------------------------|---------------------------------------|---|--|---|--|---|-------------|---------------------------|
| | | | | | | | | | | | | | |
| | | | | | | | 2. AT ELEVAT | FIONS ABOVE MH | HW COVER FILL MATERI | AL TO BE USED. | | | REP.BY |
| | TINO | | | | TTOLLOF | | | | | 0% OF MAX. | | | <u>u</u> |
| | ADE 11.00 10.40 | RIF 1 | PRAP FILTE 5.00 | R LAYER FILT | ER LAYER 11.50 | | EXTEND G REVETMEN GRADE. W PROPERTI DEPTH SO LEAST 1 F BOUNDAR' 5. AT ELEVAI THE PRES EXISTING (| RADE OFF SHOR NT TOE WILL BE HERE NECESSAF / BOUNDARY FOI THAT THE COMM F BELOW THE EX Y. TIONS LESS THAI CRIBED GRADE S DR FILTER ROCK | RE TO A POINT WHERE TH AT LEAST 1 FT BELOW TI YEXTEND THE EXCAVA LLOWING THE EXISTING "LETED REVETMENT TOO USTING GRADE AT THE P N MHHW FILL MATERIAL U SHOULD BE OF SIMILAR N MAY BE USED. IF FILTEF | IE COMPLETED HE EXISTING TION TO THE GRADE TO A WILL BE AT ROPERTY JSED TO MEET JATERIAL AS | | | DESCRIPTION RE VISIONS |
| | | | | | | | 6. EXCAVATE RADIONUC | ED SOIL AND SED | DIMENT REQUIRES SCREE | INIMIZE | | | |
| Image: transmission of the second state state of the second state of the second state of the se | | | | | | | 7. SHORELIN | E EXCAVATIONS | ARE NOT TO BE EXPOSE | | | | SYMBOL |
| | | | | | | | | | | SHORE TO AT | | | |
| | | | | | | | 9. CREST OF | REVETMENT ME | | GRADE AT | | | /22/2009 |
| | | | | | | | | LE | GEND | _ | | ED BY: | ^{BY:} |
| | TING | ТС | | POF BO | TTOM OF | | | | P OF RIPRAP | | 3 | CHECK | APPROVE |
| 15.9 2.23 -0.75 1.28 10.0 0.00 -3.00 -3.50 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA 10.0 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA PROPOSED FILTER LAVER PROPOSED FILTER | ADE | RI | PRAP FILTE | R LAYER FILT | ER LAYER | | | EXI | STING GRADE | | xTt. | RE RE | 4 A |
| 15.9 2.23 -0.75 1.28 10.0 0.00 -3.00 -3.50 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA 10.0 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA PROPOSED FILTER LAVER PROPOSED FILTER | | | | | | | | GEG | OTEXTILE FILTER FABR | liC | ladu | | |
| | | | | | | | | PRO | OPOSED EXCAVATION | AREA | 5 | BL | SWF |
| $\frac{1}{160002168} = \frac{1}{100002668} + \frac{1}{10001162} + \frac{1}{10000162} + \frac{1}{100000162} + \frac{1}{10000000000000} + \frac{1}{10000000000000000000000000000000000$ | | | | | | | | PRO | OPOSED CLEAN FILL AF | REA | | | |
| MHHW MEAN HIGHER HIGH WATER SIZE D MHW MEAN HIGH WATER MEAN HIGH WATER SIZE D MSQ MEAN SEA LEVEL MSQ NATIONAL GEODETIC VERTICAL DATUM MILW MEAN ALLOW WATER SIZE D MLW MEAN LOW WATER MLW MEAN LOW WATER SIZE D SIZE D MLW MEAN LOW WATER MLW MEAN LOW WATER SIZE D D | | | | | | | | | | | 5 | ED BY: | BY: |
| МННW MEAN HIGHER HIGH WATER SIZE D MHW MEAN HIGH WATER SIZE D MSL MEAN HIGH WATER SIZE D MSL MEAN SEA LEVEL SIZE D MUW MEAN SEA LEVEL SIZE D MUW MEAN ALGOW WATER SIZE D MLW MEAN LOW WATER SIZE D MILW MEAN LOW WATER SIZE D | | | | | | | | | | | IRED E | SIGNE | DRAWN BY CHECKED B |
| MHHW MAA HIGHER HILH WATER MHW MAA HIGHER HILH WATER MSL MEAN HIGH WATER MSL MEAN SEA LEVEL NGVD NATIONAL GEODETIC VERTICAL DATUM MLIW MEAN LOWER LOW WATER MILW MEAN LOWER LOW WATER SCALE REDUCED ELEVATION MILW MEAN LOWER LOW WATER | | | | | | | | | | | PREP/ | ة آ | σċ |
| MSL MEAN SEA LEVEL NGVD NATIONAL GEODETIC VERTICAL DATUM LIW MEAN LOWER LOW WATER MLW MEAN LOWER LOW WATER SCALE REQUEEL SCALE REQUEEL POINT EXISTING ELEVATION F1 1480026.80 453962.45 9.46 15.00 12.00 11.50 F2 1480021.88 453962.45 9.46 15.00 12.00 11.50 1.0 | | | | | | | | | | л | | |) |
| NGU NATIONAL GEODETIC VE TICAL DATUM MLW IT IS A REDUCED SCALE REDUCED | | | | | | | | | | | IF SH | HEET IS | LESS |
| MLW MEAN LOW WATER SALE PEDUER MLW MEAN LOW WATER SALE PEDUER SALE PEDUER MLW MEAN LOW WATER MLW MEAN LOW WATER SALE PEDUER SALE PEDUER POINT AG0026.69 45307.63 8.60 1460006.79 454014.55 2.02 1.02 1.120 -5.27 NTE: ELEVATION ARE IN FEET ABOVE MEAN SEA LEVEL. Tible LEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNE ARIA 12.02.02.02.02.02.02.02.02.02.02.02.02.02 | | | | | | | | | | TICAL DATUM | | S A REDU | |
| POINT EASTING NORTHING EXISTING TUDO OF GRADE POINT EXISTING TUDO OF GRADE BOTTOM OF FILTER LAYER BOTTOM OF FILTER LAYER Of OF FILTER LAYER Of OF FILT | | | | | | | | | | २ | | | |
| POINT EASTING NORTHING EXISTING TOP OF BOTTOM OF F-1 1460026.69 453962.45 9.46 15.00 12.00 11.50 F-2 1460026.89 453975.56 8.00 - - - - F-3 1460026.89 453975.56 8.00 - | | | | | | | | | | | | | |
| F-2 1460021.68 453975.56 8.00 | [| | | | | TOP OF | | BOTTOM OF | | | ERING COM | | SSC |
| F-2 1460002.188 453975.56 8.00 | - | | | | OIVADE | | | | R | | ENGINE | AN | CR |
| F-4 1459983.97 454074.31 -1.27 -2.27 -5.77 NOTE: ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL. Image: Construction of the second secon | ŀ | F-2 | 1460021.68 | 453975.56 | 8.00 | - | | - | _ | | ILITIES | ER L | Ĕ |
| NOTE: ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL. IDAL RANGES AND ELEVATION DATUMS TIDAL RANGES AND ELEVATION DATUMS Image: Sea Level. | ŀ | | | | | | | | | | | No N | AND |
| Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 DCALE DWG. NO. | L | 1 | 193903.97 | +3+074.31 | -1.27 | -2.21 | -0.27 | -5.11 | | | | ЧС | ЧЦ |
| Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 DCALE IN FEET | | | | | | | | | | | , in the second s | N N | Ъ П |
| Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -356 SCALE IN FEET DWG. NO. | | | | | | | | | | | ۳ ۵ | N 18 | D R NS |
| Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 DCALE IN EEET | | | TIONS ARE IN FE | ET ABOVE ME | AN SEA LEVEL. | | | | | | | с ВЦ | NE AND R ECTIONS |
| Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -356 SCALE IN FEET DWG. NO. | | | | | | | | | | | BR | S 7 | ШN |
| Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -356 SCALE IN FEET DWG. NO. | | | | | | | | | | | | E H | S |
| Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.46 MLW 0 -3.56 DCALE IN FEET | | | TIDAL RAN | GES AND EL | EVATION DAT | UMS | | | | | OF THE - | R S | łor |
| Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.46 MLW 0 -3.12 -3.56 | | | | | | | | | | | TMENT | | Ϋ́ |
| Extreme +9.7 +6.58 +6.14 MH-W +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.12 -3.56 | | Г | | Refe | | | | | DBAET | | PAR | 1 | |
| WHTWW 4-5.73 4-3.61 4-3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MUW 0 -3.56 DWG. NO. | | | Tidal Datum | MLLW | | | | | DIMATI | | ä | | |
| MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 SCALE IN FEET | | | Tidal Datum Extreme | MLLW +9.7 | +6.58 | +6.14 | N | | | ΓΙΟΝ | × | | |
| NGVD +5.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.12 -3.56 | | - | Tidal Datum Extreme MHHW | MLLW +9.7 +6.73 | +6.58 +3.61 | +6.14 +3.17 | N | | | ΓΙΟΝ | Hunter | | |
| | | - | Tidal Datum Extreme MHHW MHW MSL | MLLW +9.7 +6.73 +6.10 +3.56 | +6.58 +3.61 +2.98 +0.44 | +6.14 +3.17 +2.54 0 | N | OT FOR | CONSTRUCT | | Hunter | | |
| MILLAV 0 - 5.12 - 5.00 SCALE IN FEET C6 | | - | Tidal Datum Extreme MHHW MHW MSL NGVD | MLLW +9.7 +6.73 +6.10 +3.56 +3.12 | +6.58 +3.61 +2.98 +0.44 0 | +6.14 +3.17 +2.54 0 -0.44 | N | OT FOR | CONSTRUCT | | Hunter San Fra | ancisco, Ca | |

SHEET 7 OF 12

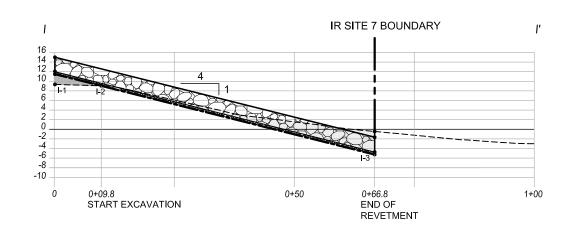
| | Reference Datum | | | | | | |
|-------------|-----------------|-----------|-------|--|--|--|--|
| Tidal Datum | MLLW | NGVD 1929 | MSL | | | | |
| Extreme | +9.7 | +6.58 | +6.14 | | | | |
| MHHW | +6.73 | +3.61 | +3.17 | | | | |
| MHW | +6.10 | +2.98 | +2.54 | | | | |
| MSL | +3.56 | +0.44 | 0 | | | | |
| NGVD | +3.12 | 0 | -0.44 | | | | |
| MLW | +1.12 | -2.06 | -2.44 | | | | |
| MLLW | 0 | -3.12 | -3.56 | | | | |

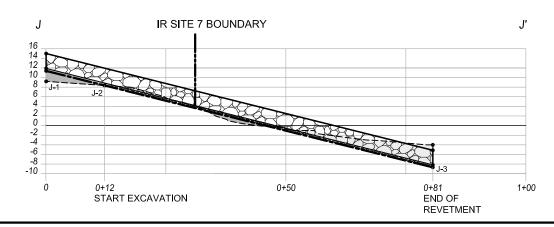


| | POINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF | BOTTOM OF |
|---|--------------|------------|-----------|-------------------|------------------|--------------|--------------|
| | | | | GRADE | | FILTER LATER | FILTER LATER |
| | G-1 | 1460083.25 | 453974.91 | 9.45 | 15.00 | 12.00 | 11.50 |
| | G - 2 | 1460084.02 | 453985.89 | 8.00 | | - | - |
| [| G - 3 | 1460087.85 | 454040.56 | -0.46 | -1.46 | -4.46 | -4.96 |
| [| G-4 | 1460087.85 | 454065.03 | -1.43 | -2.43 | -5.43 | -5.93 |



| | | | | | ELEVATION | | | | |
|---|------|------------|-----------|-------------------|------------------|------------------------|---------------------------|--|--|
| P | OINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER | | |
| F | 1-1 | 1460160.41 | 453938.16 | 9.67 | 15.00 | 12.00 | 11.50 | | |
| F | 1-2 | 1460165.87 | 453968.07 | 3.47 | | - | _ | | |
| F | +-3 | 1460171.19 | 453997.18 | 2.21 | 0.00 | -3.00 | -3.50 | | |
| F | 1-4 | 1460173.69 | 454010.87 | -0.19 | -1.19 | -4.19 | -4.69 | | |





| | | | | ELEVATION | | | | |
|------|------------|-----------|-------------------|------------------|------------------------|---------------------------|--|--|
| POIN | T EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER | | |
| I-1 | 1460261.91 | 453879.72 | 9.35 | 15.00 | 12.00 | 11.50 | | |
| I-2 | 1460262.82 | 453889.47 | 9.00 | | - | - | | |
| I-3 | 1460268.13 | 453946.18 | -0.65 | -1.65 | -4.65 | -5.15 | | |

| | | | ELEVATION | | | | |
|--------------|------------|-----------|-------------------|------------------|------------------------|---------------------------|--|
| POINT | EASTING | NORTHING | EXISTING GRADE | TOP OF RIPRAP | TOP OF FILTER LAYER | BOTTOM OF FILTER LAYER | |
| J-1 | 1460366.54 | 453939.02 | 9.21 | 15.00 | 12.00 | 11.50 | |
| J - 2 | 1460356.91 | 453946.56 | 8.15 | - | | - | |
| J-3 | 1460299.59 | 453991.73 | -4.04 | -5.04 | -8.04 | -8.54 | |

NOTE: ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

NOTES:

- 1. POINTS G-2, H-2, I-2, AND J-2 CORRESPOND TO SHORELINE EXCAVATION START. GRADE ACCORDINGLY SLOPE 4H:1V.
- 2. AT ELEVATIONS ABOVE MHHW COVER FILL MATERIAL TO BE USED.
- 3. COMPACT FILL UNDER REVETMENT TO AT LEAST 90% OF MAX. DRY DENSITY BASED ON PROCTOR ASTM D1557.
- 4. GRADE UPPER BANK OF SHORELINE TO A SLOPE OF 4H:1V AND EXTEND GRADE OFF SHORE TO A POINT WHERE THE COMPLETED REVETMENT TOE WILL BE AT LEAST 1 FT BELOW THE EXISTING GRADE. WHERE NECESSARY EXTEND THE EXCAVATION TO THE PROPERTY BOUNDARY FOLLOWING THE EXISTING GRADE TO A DEPTH SO THAT THE COMPLETED REVETMENT TOE WILL BE AT LEAST 1 FT BELOW THE EXISTING GRADE AT THE PROPERTY BOUNDARY.
- AT ELEVATIONS LESS THAN MHHW FILL MATERIAL USED TO MEET THE PRESCRIBED GRADE SHOULD BE OF SIMILAR MATERIAL AS EXISTING OR FILTER ROCK MAY BE USED. IF FILTER ROCK IS USED COMPACTION IS NOT NECESSARY.
- 6. EXCAVATED SOIL AND SEDIMENT REQUIRES SCREENING FOR RADIONUCLIDES PRIOR TO PLACEMENT ON SITE. MINIMIZE EXCAVATION VOLUMES TO THE EXTENT POSSIBLE.
- 7. SHORELINE EXCAVATIONS ARE NOT TO BE EXPOSED TO INCOMING TIDAL WATER WITHOUT STABILIZATION.
- 8. CONSTRUCT REVETMENT OFF SHORE AND ALONG SHORE TO AT LEAST THE PROPERTY BOUNDARY.
- 9. CREST OF REVETMENT MEETS THE FINAL COVER GRADE AT ELEVATION +15 FT MSL.

TIDAL RANGES AND ELEVATION DATUMS

| | Reference Datum | | | | | |
|-------------|-----------------|-----------|-------|--|--|--|
| Tidal Datum | MLLW | NGVD 1929 | MSL | | | |
| Extreme | +9.7 | +6.58 | +6.14 | | | |
| MHHW | +6.73 | +3.61 | +3.17 | | | |
| MHW | +6.10 | +2.98 | +2.54 | | | |
| MSL | +3.56 | +0.44 | 0 | | | |
| NGVD | +3.12 | 0 | -0.44 | | | |
| MLW | +1.12 | -2.06 | -2.44 | | | |
| MLLW | 0 | -3.12 | -3.56 | | | |

| MHW | +6.10 | +2.98 | +2.54 | | | | | |
|------|----------------|--------|-------|--|--|--|--|--|
| MSL | +3.56 | +0.44 | 0 | | | | | |
| NGVD | +3.12 | 0 | -0.44 | | | | | |
| MLW | +1.12 | -2.06 | -2.44 | | | | | |
| MLLW | 0 | -3.12 | -3.56 | | | | | |
| | LEGEN | 1D | _ | | | | | |
| | - TOP OF | RIPRAP | | | | | | |
| | EXISTING GRADE | | | | | | | |

P

22-22-

MHHW MHW MSL NGVD MLW MLLW

GEOTEXTILE FILTER FABRIC

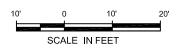
PROPOSED EXCAVATION AREA

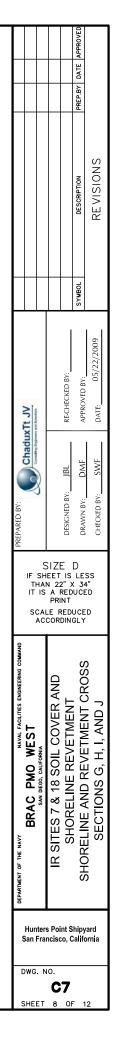
PROPOSED CLEAN FILL AREA

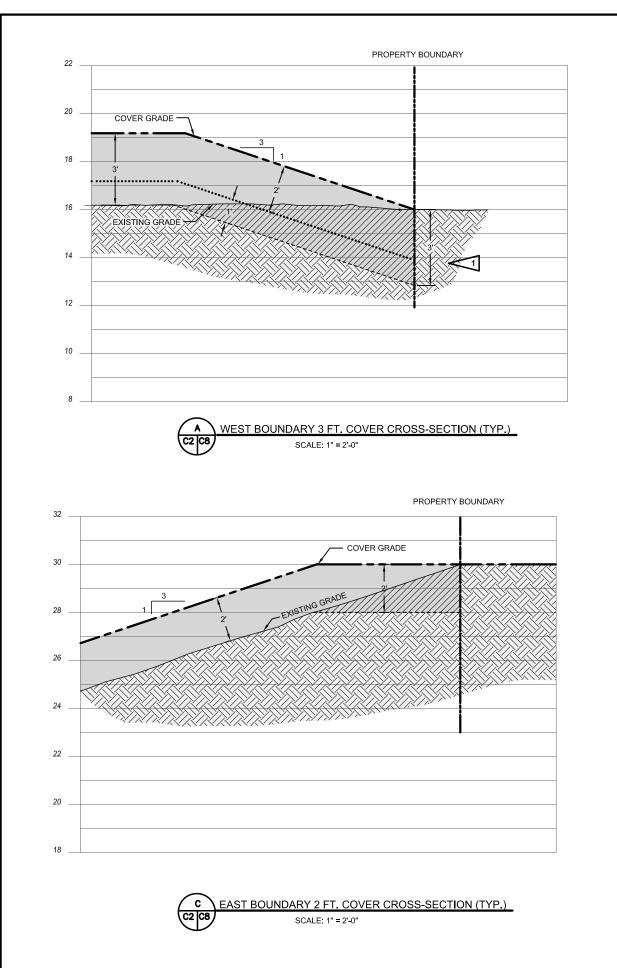
PROPOSED RIPRAP (3' THICK) PROPOSED 6" FILTER LAYER

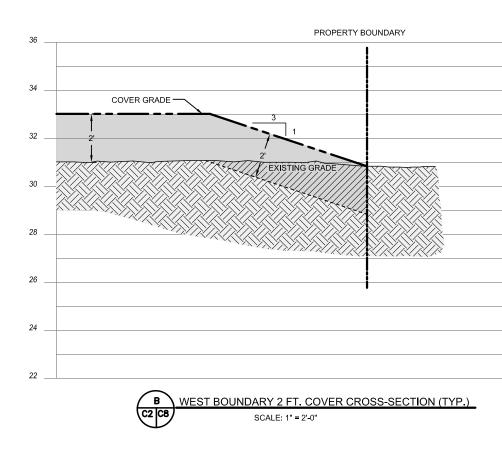
MEAN HIGHER HIGH WATER MEAN HIGH WATER MEAN SEA LEVEL NATIONAL GEODETIC VERTICAL DATUM MEAN LOW WATER MEAN LOWER LOW WATER

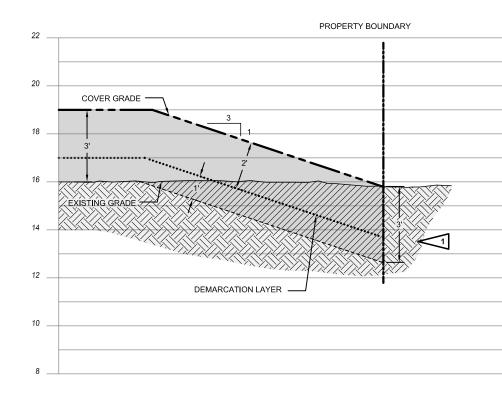
DRAFT NOT FOR CONSTRUCTION











D EAST BOUNDARY 3 FT. COVER CROSS-SECTION (TYP.) C2 C8 SCALE: 1" = 2'-0"



| L | Ε | G | E | Ν | D |
|---|---|---|---|---|---|
| | | | | | |

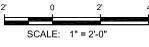
| \sim | EXISTING SURFACE |
|---------------------------|---------------------|
| • • • • • • • • • • • • • | DEMARCATION LAYER |
| ~`.~ | FINAL COVER SURFACE |
| | EXCAVATION SURFACE |
| | EXISTING |
| | PROPOSED COVER FILL |
| | PROPOSED EXCAVATION |

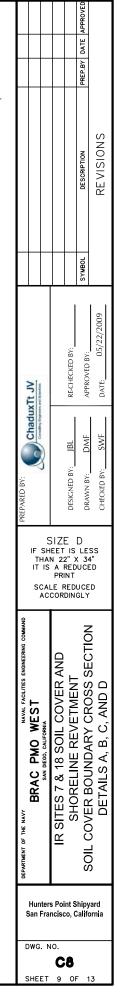
TIDAL RANGES AND ELEVATION DATUMS

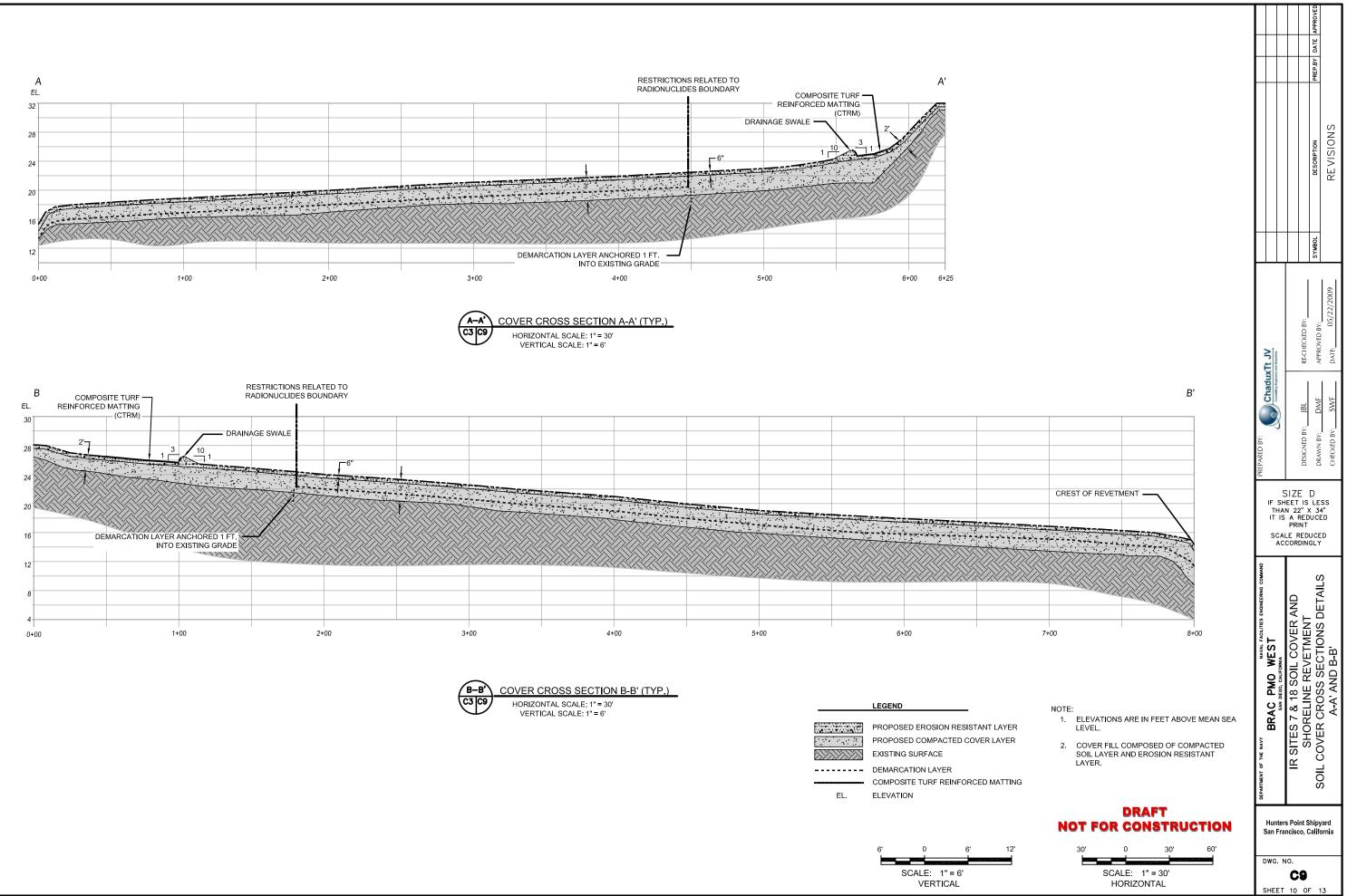
| | | Reference Datum | | | | | | |
|-------------|-------------------|-----------------|-------|--|--|--|--|--|
| Tidal Datum | MLLW NGVD 1929 MS | | | | | | | |
| Extreme | +9.7 | +6.58 | +6.14 | | | | | |
| MHHW | +6.73 | +3.61 | +3.17 | | | | | |
| MHW | +6.10 | +2.98 | +2.54 | | | | | |
| MSL | +3.56 | +0.44 | 0 | | | | | |
| NGVD | +3.12 | 0 | -0.44 | | | | | |
| MLW | +1.12 | -2.06 | -2.44 | | | | | |
| MLLW | 0 | -3.12 | -3.56 | | | | | |

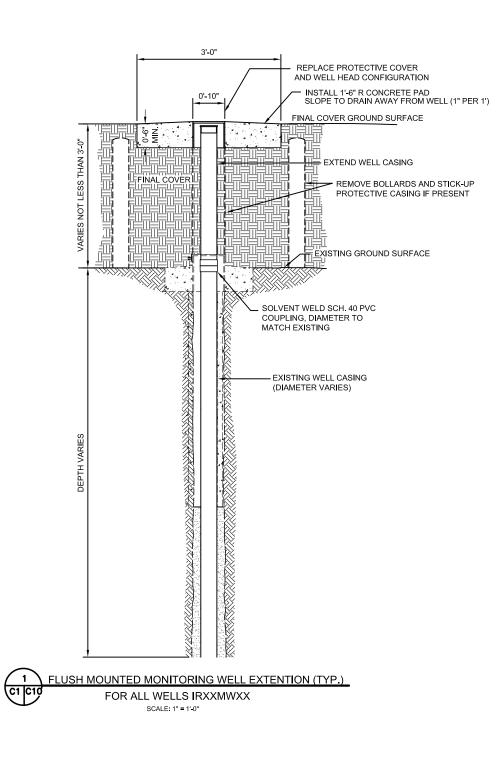
ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

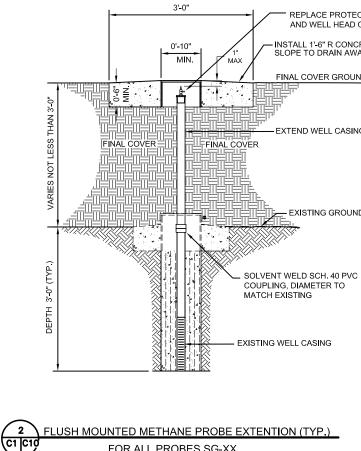
DRAFT **NOT FOR CONSTRUCTION**















| ECTIVE COVER D CONFIGURATION CRETE PAD VAY FROM WELL (1" 1 JND SURFACE NG ND SURFACE C | ΡΕR 1') | IF THA IS A COMMUND | OIL COVER AND Diama is a standard in the control of |
|---|---|--|--|
| NOTE: 1. 2. | PROTECT GROUNDWATER MONITORING WELLS AND METHANE MONITORING PROBES AS NECESSARY DURING CONSTRUCTION OF THE COVER. REMOVE CONCRETE PADS AND/OR FLUSH MOUNTED PROTECTIVE CASING IF OBSTRUCTIVE TO THE EXTENSION COUPLING. | DEPARTMENT OF THE NAVY BRAC PMO WES SAN DEGO, CALIFORNIA | IR SITES 7 & 18 SOIL COVER AND SHORELINE REVETMENT MONITORING WELL AND METHAN MONITORING PROBE EXTENSION DET |
| 2' 1 | DRAFT NOT FOR CONSTRUCTION | San Fra | s Point Shipyard ncisco, California 10. C10 11 OF 13 |

