



LAKE BERRYESSA RECREATION AREAS IMPROVEMENT PROJECT MONTICELLO SHORES

60% DESIGN DRAWINGS

JULY 2015

PRELIMINARY
NOT FOR
CONSTRUCTION

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| SHEET No. | DESCRIPTION |
|----------------|---|
| GENERAL | |
| LB-MSRA-G01 | GENERAL - COVER SHEET |
| LB-MSRA-G02 | GENERAL - INDEX SHEET |
| LB-MSRA-G03 | GENERAL - LOCATION, VICINITY, & KEY MAP |
| LB-MSRA-G04 | GENERAL - NOTES |
| LB-MSRA-G05 | GENERAL - SYMBOLS |
| LB-MSRA-G06 | GENERAL - ABBREVIATIONS |

| SHEET No. | DESCRIPTION |
|-------------------------|--------------------------------------|
| CIVIL SITE PLANS | |
| LB-MSRA-CP01 | CIVIL - SITE PLAN I |
| LB-MSRA-CP02 | CIVIL - SITE PLAN II |
| LB-MSRA-CP03 | CIVIL - SITE PLAN III |
| LB-MSRA-CP04 | CIVIL - SITE PLAN IV |
| LB-MSRA-CP05 | CIVIL - SITE PLAN V |
| LB-MSRA-CP06 | CIVIL - SITE PLAN VI |
| LB-MSRA-CP07 | CIVIL - SITE PLAN VII |
| LB-MSRA-CP08 | CIVIL - SITE PLAN VIII |
| LB-MSRA-CP09 | CIVIL - SITE PLAN IX |
| LB-MSRA-CP10 | CIVIL - SITE PLAN X |
| LB-MSRA-CP11 | CIVIL - SITE PLAN XI |
| LB-MSRA-CP12 | CIVIL - SITE PLAN XII |
| LB-MSRA-CP13 | CIVIL - SITE PLAN XIII |
| LB-MSRA-CD01 | CIVIL - GRADING AND ROAD DETAILS I |
| LB-MSRA-CD02 | CIVIL - GRADING AND ROAD DETAILS II |
| LB-MSRA-CD03 | CIVIL - GRADING AND ROAD DETAILS III |
| LB-MSRA-CD04 | NOT USED |
| LB-MSRA-CD05 | NOT USED |
| LB-MSRA-CD06 | NOT USED |
| LB-MSRA-CD07 | NOT USED |
| LB-MSRA-CD08 | NOT USED |
| LB-MSRA-CD09 | NOT USED |
| LB-MSRA-CD10 | NOT USED |
| LB-MSRA-CD11 | NOT USED |
| LB-MSRA-CD12 | CIVIL - GRADING AND ROAD DETAIL XII |

| SHEET No. | DESCRIPTION |
|-----------------------|----------------------------|
| INFRASTRUCTURE | |
| LB-MSRA-IP01 | INFRASTRUCTURE - PLAN I |
| LB-MSRA-IP02 | INFRASTRUCTURE - PLAN II |
| LB-MSRA-IP03 | INFRASTRUCTURE - PLAN III |
| LB-MSRA-IP04 | INFRASTRUCTURE - PLAN IV |
| LB-MSRA-IP05 | INFRASTRUCTURE - PLAN V |
| LB-MSRA-IP06 | INFRASTRUCTURE - PLAN VI |
| LB-MSRA-IP07 | INFRASTRUCTURE - PLAN VII |
| LB-MSRA-IP08 | INFRASTRUCTURE - PLAN VIII |
| LB-MSRA-IP09 | INFRASTRUCTURE - PLAN IX |
| LB-MSRA-IP10 | INFRASTRUCTURE - PLAN X |
| LB-MSRA-IP11 | INFRASTRUCTURE - PLAN XI |
| LB-MSRA-IP12 | INFRASTRUCTURE - PLAN XII |
| LB-MSRA-IP13 | INFRASTRUCTURE - PLAN XIII |

| SHEET No. | DESCRIPTION |
|-----------------------|---|
| INFRASTRUCTURE | |
| LB-MSRA-IS01 | NOT USED |
| LB-MSRA-IS02 | NOT USED |
| LB-MSRA-IS03 | NOT USED |
| LB-MSRA-IS04 | NOT USED |
| LB-MSRA-IS05 | NOT USED |
| LB-MSRA-IS06 | INFRASTRUCTURE - SEWER DETAILS VI |
| LB-MSRA-IS07 | NOT USED |
| LB-MSRA-IS08 | NOT USED |
| LB-MSRA-IS09 | INFRASTRUCTURE - SEWER DETAILS IX |
| LB-MSRA-ISS01 | INFRASTRUCTURE - STRUCTURAL GENERAL NOTES, ABBREVIATIONS, & DETAILS |
| LB-MSRA-ISS02 | INFRASTRUCTURE - STRUCTURAL PLANS, SECTIONS, & DETAILS |
| LB-MSRA-IW01 | INFRASTRUCTURE - WATER DETAIL I |
| LB-MSRA-IW02 | INFRASTRUCTURE - WATER DETAIL II |
| LB-MSRA-IW03 | INFRASTRUCTURE - WATER DETAIL III |
| LB-MSRA-IW04 | INFRASTRUCTURE - WATER DETAIL IV |
| LB-MSRA-IW05 | INFRASTRUCTURE - WATER DETAIL V |
| LB-MSRA-IW06 | INFRASTRUCTURE - WATER DETAIL VI |
| LB-MSRA-IW07 | INFRASTRUCTURE - WATER DETAIL VII |
| LB-MSRA-IW08 | INFRASTRUCTURE - WATER DETAIL VIII |
| LB-MSRA-IW09 | INFRASTRUCTURE - WATER DETAIL IX |
| LB-MSRA-IW10 | INFRASTRUCTURE - WATER DETAIL X |
| LB-MSRA-IE01 | INFRASTRUCTURE - ELECTRICAL LEGEND |
| LB-MSRA-IE02 | INFRASTRUCTURE - ELECTRICAL DETAIL |
| LB-MSRA-IE03 | INFRASTRUCTURE -MS-PNL-6 ONELINE |
| LB-MSRA-IE04 | INFRASTRUCTURE - MS-PNL-9 ONELINE |
| LB-MSRA-IE05 | INFRASTRUCTURE - CABLE SCHEDULES I |

LEGEND

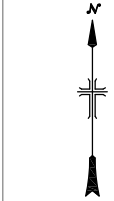
Area: Lake Berryessa ——— Drawing Number
 Subarea: Monticello Shores ——— Discipline
 Recreation Area

Subarea Designations

| | |
|------|-----------------------------------|
| PCRA | Putah Canyon Recreation Area |
| MSRA | Monticello Shores Recreation Area |
| BPRA | Berryessa Point Recreation Area |
| SFRA | Spanish Flat Recreation Area |
| SCRA | Steele Canyon Recreation Area |

Discipline Legend

| | |
|-----|-----------------------------------|
| G | General |
| CP | Civil Site Plan |
| CD | Civil Grading & Road Details |
| CR | Civil Boat Launch & Ramp Details |
| IP | Infrastructure Plans |
| IS | Infrastructure Sewer Details |
| ISS | Infrastructure Sewer Structural |
| IW | Infrastructure Water Details |
| IE | Infrastructure Electrical Details |



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CENTRAL CALIFORNIA AREA OFFICE
LAKE BERRYESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

DRAWN _____ CONTRACTOR _____

ACCEPTED _____
NAME _____
TITLE _____

STATION NAME (CITY, ST) _____ YYYY-MM-DD _____

**MONTICELLO SHORES
INDEX SHEET**

LB-MSRA-G02
SHEET X OF X

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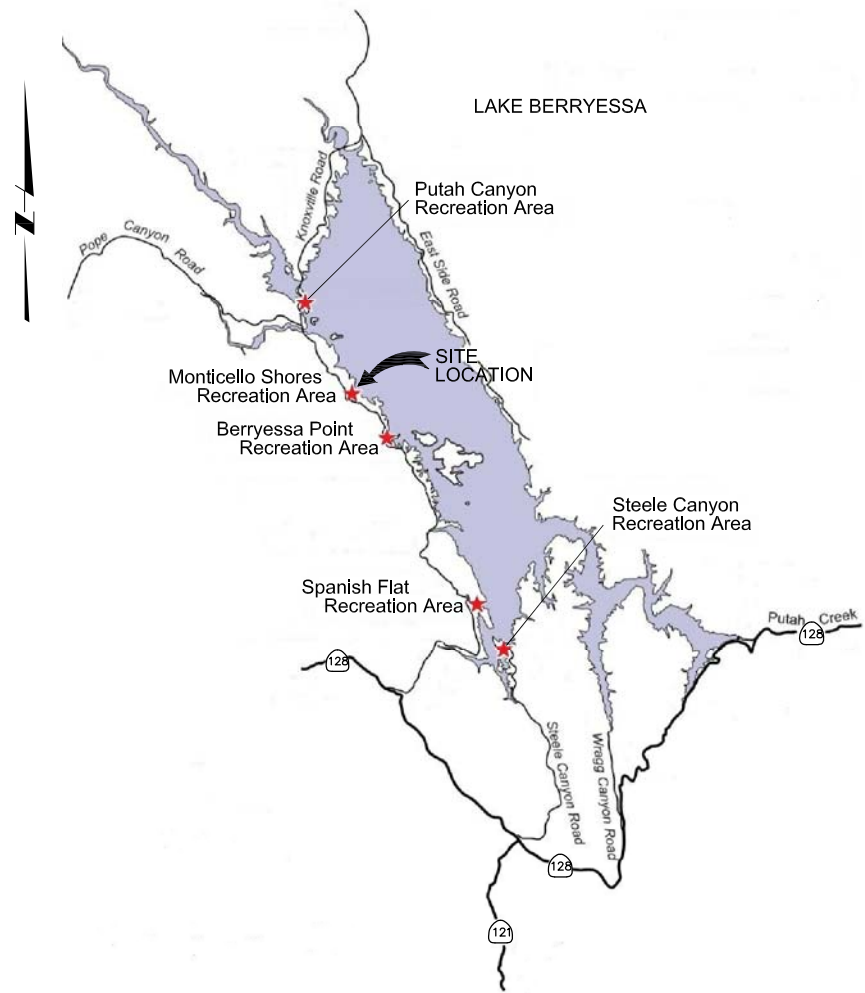
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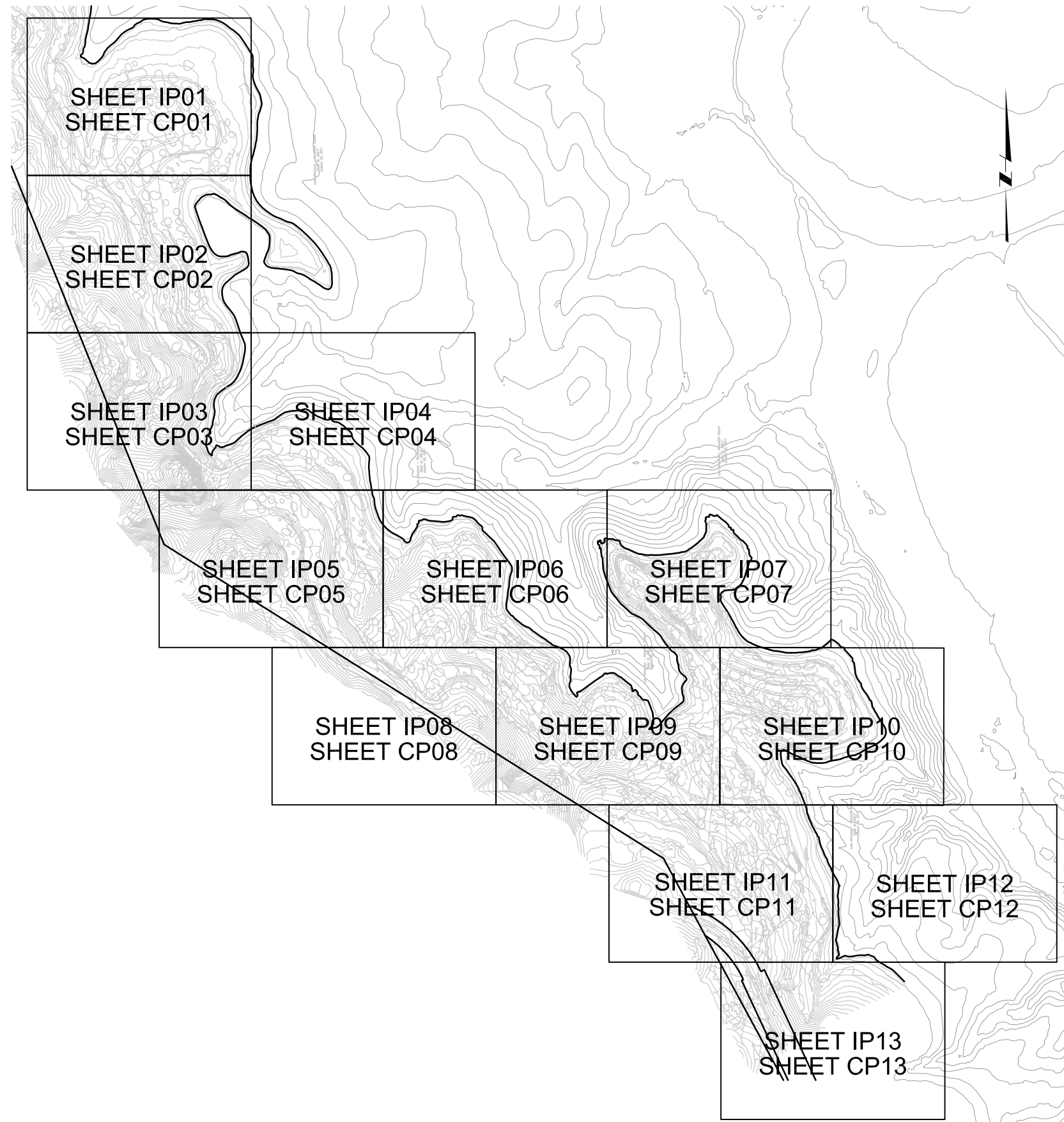
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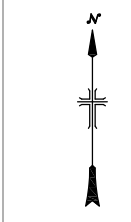
LOCATION MAP
N.T.S.



VICINITY MAP
N.T.S.



KEY MAP
N.T.S.



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CONTRACTOR

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TITLE

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**MONTICELLO SHORES
LOCATION, VICINITY,
& KEY MAP**

LB-MSRA-G03
SHEET X OF X

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GENERAL NOTES:

- GENERAL NOTES APPLY TO ALL SHEETS, EXCEPT WHERE MORE SPECIFIC REQUIREMENTS ARE PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL THE EXISTING ITEMS WITHIN OR ADJACENT TO THE WORK OR THAT MAY BE DISTURBED BY THE WORK (AND THEIR CURRENT CONDITION). IF NECESSARY, CONTRACTOR SHALL SEEK WRITTEN CLARIFICATION FROM THE CONTRACT OFFICER.
- UNLESS OTHERWISE NOTED, THE LOCATION, SIZE AND MATERIAL OF EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT SITE ARE NOT SHOWN ON THESE PLANS.
- UNLESS OTHERWISE NOTED, ALL EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT SITE ARE INACTIVE & SHALL BE REMOVED OR ABANDONED IN PLACE, WHERE REMOVAL OR ABANDONMENT ARE REQUIRED FOR INSTALLATION OF NEW FACILITIES.
- ALL WORK (OTHER THAN SURVEYING AND MONITORING) SHALL BE RESTRICTED TO THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS, UNLESS DEPICTED OTHERWISE. THE LIMITS OF DISTURBANCE ARE THE LIMITS OF THE TEMPORARY CONSTRUCTION EASEMENT.
- MAINTAIN ACCESS TO ALL PROPERTIES ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
- THE CONTRACTOR SHALL RESTORE ALL DAMAGED OR DISTURBED AREAS TO THEIR ORIGINAL CONDITION AFTER COMPLETION OF THE WORK.
- ALL EXCESS MATERIALS AND SPOIL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN OFF-SITE LOCATION, ACCORDING TO ALL APPLICABLE LAWS AND REGULATIONS.
- MECHANICAL EQUIPMENT USED ON THIS PROJECT SHALL BE SELECTED TO MINIMIZE DAMAGE TO THE ROADS USED AS TRUCK ROUTES TO BRING MATERIAL AND EQUIPMENT TO THE PROJECT. REPLACE DAMAGED ASPHALT CONCRETE (A.C.) PAVEMENT AND CONCRETE PAVEMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THE REQUIRED INSPECTIONS. THE PRESENCE OR ABSENCE OF A PROJECT REPRESENTATIVE OR OTHER INSPECTOR WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE PROPER PERFORMANCE OF THE WORK.
- THE TERM "ACCEPTABLE TO THE ENGINEER" SHALL MEAN WRITTEN ACCEPTANCE BY THE CONTRACT OFFICER IS TO BE RECEIVED BY THE CONTRACTOR BEFORE WORK IS STARTED. OWNER (USBR) MAY BE USED INTERCHANGEABLY FOR ENGINEER AND CONTRACT OFFICER.
- SEE INDIVIDUAL DRAWINGS FOR ADDITIONAL ABBREVIATIONS, SYMBOLS, LEGENDS, NOTES, DETAILS, AND OTHER REQUIREMENTS, IF ANY. NOT ALL OF THESE ITEMS AND/OR "STANDARD" DETAILS SHOWN MAY BE APPLICABLE TO THIS PROJECT. UNLESS OTHERWISE NOTED, IN ALL CASES, THE INFORMATION SHOWN ON INDIVIDUAL DRAWINGS SHALL GOVERN OVER ANY GENERAL INFORMATION.
- UNLESS NOTED OTHERWISE, ALL WORK SHOWN IN THESE DOCUMENTS IS NEW AND TO BE PERFORMED UNDER THIS CONTRACT. WORK UNDER THIS CONTRACT IS NORMALLY SHOWN IN HEAVY LINES.

HEALTH AND SAFETY NOTES:

- COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL. THIS SHALL INCLUDE BUT IS NOT LIMITED TO, THE SHORING OF TRENCHES, VENTILATION OF CONFINED SPACES, CONFORMANCE TO TRAFFIC CONTROL REQUIREMENTS INCLUDING THE PROVISION AND MAINTENANCE OF BARRICADES AND THE PREPARATION AND IMPLEMENTATION OF TRAFFIC CONTROL PLANS AS REQUIRED. THE STRICTEST HEALTH AND SAFETY REGULATIONS SHALL APPLY.
- ALL HEALTH AND SAFETY PROTECTION MEASURES SHALL BE INSTALLED AND FUNCTIONAL AT THE SITE PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR SHALL MAINTAIN ALL HEALTH AND SAFETY MEASURES UNTIL FINAL COMPLETION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBSERVING AND MEETING ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY CHAINLINK FENCING AND/OR TRENCH PLATES AT THE END OF EACH DAY TO PREVENT PEOPLE AND WILDLIFE FROM ENTERING THE TRENCH.

ENVIRONMENTAL PROTECTION AND EROSION, STORM WATER AND SEDIMENTATION CONTROL NOTES:

- EXCEPT AS NOTED, THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION, STORM WATER "SWPPP" AND SEDIMENTATION CONTROL AND ENVIRONMENTAL PROTECTION MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL RELATED PERMITS.
- ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE INSTALLED AND FUNCTIONAL AT THE SITE PRIOR TO PERFORMING ANY WORK, UNLESS NOTED. THE CONTRACTOR SHALL MAINTAIN ALL ENVIRONMENTAL PROTECTION MEASURES UNTIL FINAL COMPLETION.
- SOIL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SPECIFICATIONS, ENVIRONMENTAL PROTECTION MEASURES.
- ALL EXISTING DRAINAGE FEATURES SHALL BE PROPERLY PROTECTED.

DEMOLITION AND REMOVAL NOTES:

- ALL DEMOLITION AND REMOVAL WORK SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO THE NEED TO COORDINATE WITH EXISTING FACILITIES AND MAINTAIN ACCESS. CONTRACTOR SHALL ENSURE PUBLIC SAFETY DURING ALL ASPECTS OF DEMOLITION WORK.
- ALL ITEMS WITHIN THE AREA SLATED FOR DEMOLITION OR REMOVAL ARE NOT WARRANTED TO BE SHOWN.

MEASUREMENT COORDINATES, & STATIONING NOTES:

- WRITTEN DISTANCES AND ELEVATIONS SHALL GOVERN OVER SCALED DISTANCES AND ELEVATIONS.
- DETAILS & DRAWINGS IDENTIFIED AS NTS (NOT-TO-SCALE) SHALL NOT BE SCALED IF DIMENSIONS ARE NOT PROVIDED.
- PIPE LENGTHS SHOWN IN PROFILE OR PLAN ARE APPROXIMATE AND MAY VARY UP TO 5 PERCENT OF INDICATED LENGTH.
- DIMENSIONS OF EXISTING STRUCTURES, PIPING, PAVING AND OTHER NON-STRUCTURAL ITEMS ARE APPROXIMATE. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND REPORT ALL MAJOR DISCREPANCIES TO THE CONTRACT OFFICER AT LEAST 7 WORKING DAYS IN ADVANCE OF CONSTRUCTION IN THE AREA.
- STATIONING SHOWN ON THESE DRAWINGS IS HORIZONTAL STATIONING MEASURED ON A LEVEL PLANE.
- DISCREPANCIES BETWEEN COORDINATES, BEARINGS, LENGTHS, AND STATIONING SHALL BE RESOLVED IN THE FOLLOWING ORDER OF PRECEDENCE:
 - COORDINATES
 - BEARINGS AND LENGTHS
 - STATIONING



STA. CDM SMITH
YYYY-MM-DD
105904.230.019
ACCEPTED:
NAME, PROF. ABRF

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**MONTICELLO SHORES
GENERAL NOTES**

LB-MSRA-G04
SHEET X OF X

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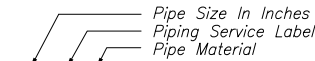
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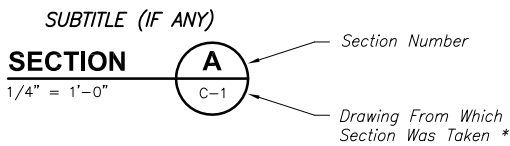
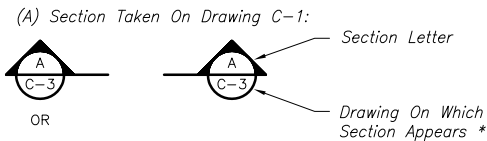
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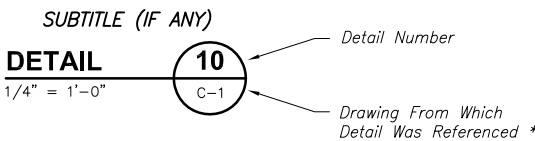
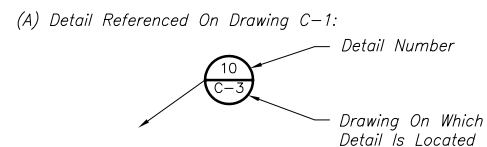
PIPE CODE



SECTION IDENTIFICATION

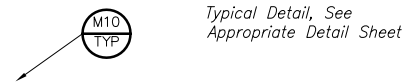


DETAIL IDENTIFICATION



* Note: If Section Or Detail Appears On The Same Drawing As The Call-Out, The Drawing Number Is Replaced With A Dash.

TYPICAL DETAILS



Typ In The Bottom Or End Of A Callout Indicates A Typical Detail. Refer To All Typical Detail Sheets In Different Disciplines. Typical Details May Not Be Shown In Numerical Order, Review All Sheets.

SYMBOL

FEATURE

| | |
|--|--|
| | Key Note |
| | Column Or Wall Tag And Line Numbers And Letters Are Used |
| | Northing And Easting Coordinates |
| | Soil Boring And Tag |
| | Existing Contour And Elevation |
| | New Contour And Elevation |
| | Spot Elevation |
| | Existing Facility (Lighter Line Work) |
| | New Or Modified Existing Facility (Darker Line Work) |
| | Existing Vegetation |
| | North Arrow |
| | Camp Site Sewer Drop |
| | Water/Electric Service Connection |

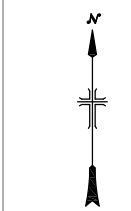
SYMBOL

FEATURE

| | |
|--|---|
| | Existing Light Pole |
| | Existing Overhead Electric |
| | Existing Utility Pole Or Valve |
| | Overhead Line |
| | New Fire Hydrant |
| | Yard Hydrant |
| | Drain Inlet |
| | Existing Fencing |
| | New Fencing |
| | 100' Buffer Zone |
| | Existing Water |
| | Flood Preclude |
| | Boundary Easement |
| | Demolition Of Existing Improvement |
| | Cap End/Cut End |
| | Check Valve |
| | Ball Valve |
| | Plug Valve |
| | Cleanout |
| | Manhole |
| | AVAR FM |
| | AIRVAC |
| | Blowoff Valve FM |
| | Blowoff Valve Water |
| | Butterfly Valve |
| | Gate Valve |
| | Lateral Number (See Infrastructure Plans) |

| | | | |
|--|-----------------------|--|-------------------------|
| | Standard Picnic Table | | Accessible Picnic Table |
| | Fire Ring | | Pedestal grill |
| | Park Model | | Cabin |
| | Accessible Park Model | | Accessible Cabin |
| | Yurt | | Tent Cabin |
| | Accessible Yurt | | Accessible Tent Cabin |
| | Tent Site | | |
| | Accessible Tent Site | | |

| | | | |
|--|-----------------------------------|--|---|
| | Scarify Soil | | Grating Span Direction Where Applicable |
| | Sand | | Checked Plate |
| | Aggregate Base, Class 2 Permeable | | Concrete |
| | Structural Fill | | Pavement Or Sidewalk (Section) |
| | Undisturbed Earth | | Impermeable Material |
| | Drain Rock | | Asphalt Concrete Pavement (Plan) |
| | Paved Road/Gravel Shoulder | | Storm Water Control Area |
| | Gravel Road | | |



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MONTICELLO SHORES SYMBOLS

LB-MSRA-G05

SHEET X OF X

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ABBREVIATIONS


| | |
|----------|--|
| Ø | DIAMETER |
| # | NUMBER |
| @ | AT |
| △ | CENTRAL ANGLE |
| AB | ANCHOR BOLT, AGGREGATE BASE |
| ABC | AGGREGATE BASE COURSE |
| ABDN | ABANDON |
| ABV | ABOVE |
| AC | ASPHALTIC CONCRETE |
| A/C | AIR CONDITIONING |
| ADDL | ADDITIONAL |
| ADJ | ADJUSTABLE, ADJACENT |
| AFF | ABOVE FINISH FLOOR |
| AFG | ABOVE FINISH GRADE |
| AGG/AG | AGGREGATE |
| AHU | AIR HANDLING UNIT |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| AIT | ANALYTICAL (ANALYSIS) INDICATING TRANSMITTER |
| AL, ALUM | ALUMINUM |
| ALT | ALTERNATE, ALTERNATIVE, ALTERNATING |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| APPROX | APPROXIMATELY |
| ARCH | ARCHITECTURAL |
| ARND | AROUND |
| ARV | AIR VACUUM RELEASE VALVE |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| ASPH | ASPHALT CONCRETE |
| ASSY | ASSEMBLY |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAGE |
| AWWA | AMERICAN WATER WORKS ASSOCIATION |
| BC | BOLT CIRCLE, BEGIN CURVE |
| B/C | BASE OF CURB OR CONCRETE |
| BCV | BALL CHECK VALVE |
| BD | BOARD |
| BEL | BELOW |
| BEV | BEVEL(ED) |
| BF | BLIND FLANGE |
| BFP | BACKFLOW PREVENTER |
| BFV | BUTTERFLY VALVE |
| BGS | BELOW GROUND SURFACE |
| BHP | BRAKE HORSE POWER |
| BITUM | BITUMINOUS |
| BLDG | BUILDING |
| BLK | BLOCK(ING) |
| BM | BENCHMARK |
| BO | BLOWOFF, BOTTOM OF, BOTTOM OUTLET |
| BOD | BOTTOM OF DUCT |
| BOF | BOTTOM OF FOOTING |
| BPV | BACK PRESSURE VALVE |
| BR | BRASS |
| BRP | BRASS PIPE |
| BRZ | BRONZE |
| BS | BOTH SIDES |
| BTWN | BETWEEN |
| BV | BALL VALVE |
| BVC | BEGIN VERTICAL CURVE |
| BW | BUTT WELD |
| C | CUT |
| CATV | CABLE TV |
| CB | CATCH BASIN, CIRCUIT BREAKER |
| CBC | CALIFORNIA BUILDING CODE |
| CCP | CONCRETE CYLINDER PIPE |
| CCW | COUNTER CLOCK WISE |
| CDPH | CALIFORNIA DEPARTMENT OF PUBLIC HEALTH |
| CF | CUBIC FEET |
| CFE | CAP FOR FUTURE |
| CFM | CUBIC FEET PER MINUTE |
| CFS | CUBIC FEET PER SECOND |
| CHAM | CHAMFER |
| CHEM | CHEMICAL |
| CHK | CHECKERED, CHECK |
| CHK PL | CHECKERED PLATE |
| CI | CAST IRON |
| CIR | CIRCLE, CIRCUIT |
| CIRC | CIRCUMFERENTIAL |
| CLR | CLEAR |
| CJ | CONSTRUCTION JOINT, CONTROL JOINT |
| C/L | CHAIN LINK |
| CL2 | CLASS 2 |
| CL | CENTER LINE, CLASS, LEAN CLAY WITH SAND |
| CLR | CHLORINE RESIDUAL (ANALYZER), CLEAR(ANCE) |
| CLSM | CONTROLLED LOW STRENGTH MATERIAL |
| CM | CENTIMETER |
| CM(P) | CORRUGATED METAL (PIPE) |
| CMU | CONCRETE MASONRY UNIT |
| CO | CLEANOUT, COMPANY |
| COMM | COMMUNICATION(S) |
| COMP | COMPACTION (COMPACTED), COMPRESSIBLE |

| | |
|-----------------|--|
| CON | CONSTANT, CONCENTRIC |
| CONC | CONCRETE |
| COND | CONDUIT, CONDITION |
| CONT | CONTINUOUS, CONTINUATION, CONTINUED |
| COORD | COORDINATION |
| CORR | CORRUGATED |
| CP | CATHODIC PROTECTION |
| CPLG | COUPLING (ER) |
| CPU | CENTRAL PROCESSING UNIT |
| CPVC(P) | CHLORINATED POLYVINYLCHLORIDE (PIPE) |
| CR | CHEMICAL RESISTANT COATING |
| CSP | CARBON STEEL PIPE |
| CTR | CENTER (ED) |
| CTRL | CONTROL |
| CTS | CALCIUM THIOSULFATE |
| CU | CUBIC, COPPER |
| CU FT | CUBIC FEET |
| CUP | COPPER PIPE |
| CV | CHECK VALVE, CONTROL VALVE, CONTROL VARIABLE |
| CW | COLD WATER (DOMESTIC POTABLE), CLOCK WISE |
| CY | CUBIC YARD |
| D | DRAIN, DEMOLITION, DEEP, DEPTH |
| DBL | DOUBLE |
| DEG | DEGREE |
| DEMO | DEMOLITION |
| DEPT | DEPARTMENT |
| DET | DETAIL |
| DI | DROP INLET, DUCTILE IRON |
| DIA, DIA | DIAMETER |
| DIEL | DIELECTRIC |
| DIM | DIMENSION |
| DI(P) | DUCTILE IRON (PIPE) |
| DL | DRAIN LINE |
| DN | DOWN |
| DMPRF | DAMPROOFING |
| DR | DRIVE |
| DTL | DETAIL |
| DWG | DRAWING |
| (E) | EXISTING, ELEVATION |
| E | ELECTRICAL, EASTING, EAST |
| EA | EACH |
| EC | END CURVE, EMPTY CONDUIT |
| ECC | ECCENTRIC |
| ED | EQUIPMENT DRAIN |
| EDB | ELECTRICAL DUCT BANK |
| EG | EXISTING GRADE |
| EL | ELEVATION |
| E/L | EASEMENT LINE |
| ELEC | ELECTRIC(AL) |
| ELEV | ELEVATOR, ELEVATION |
| ELL, EL | ELBOW(S) |
| EMBED | EMBEDMENT |
| EOP | EDGE OF PAVEMENT |
| EP | ELECTRICAL PANEL, EXPLOSION PROOF, EDGE OF PAVEMENT |
| EPDM | ETHYLENE PROPYLENE DIENE MONOMER |
| EQ | EQUAL |
| EQPT, EQUIP | EQUIPMENT |
| ES | EACH SIDE |
| ESH, ESW | EMERGENCY SHOWER AND EYEWASH |
| EW | EACH WAY |
| EX, EXIST, EXST | EXISTING |
| EXT | EXTERIOR, EXTENSION |
| (F) | FUTURE |
| F'C | CONCRETE COMPRESSIVE STRENGTH |
| F'M | MASONRY COMPRESSIVE PRISM STRENGTH |
| FAB | FABRICATE(D)(TION) |
| FC | FLEXIBLE COUPLING, FACE OF CURB, FLEXIBLE CONNECTION |
| FCA | FLANGE COUPLING ADAPTER |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FDN | FOUNDATION |
| FE | FIRE EXTINGUISHER AND CABINET, FLOW ELEMENT |
| FF | FINISHED FLOOR |
| FG | FINISH GRADE, FIBERGLASS |
| FH | FIRE HYDRANT |
| FIG | FIGURE |
| FIT | FLOW INDICATING TRANSMITTER |
| FL | FLOOR(ING) |
| FLA | FULL LOAD AMPERE |
| FLEX | FLEXIBLE |
| FLG | FLANGE(D) |
| FM | FORCE MAIN, FLOW METER |
| FND | FOUNDATION |
| FNPT, FPT | FEMALE NATIONAL PIPE THREAD |
| FO | FIBER OPTIC |
| FOC | FACE OF CONCRETE, FACE OF CURB |
| FPM | FEET PER MINUTE |
| FPS | FEET PER SECOND |
| FRP | FIBERGLASS REINFORCED PLASTIC |
| FT | FOOT, FEET |
| FTG | FOOTING, FITTING |
| FUT | FUTURE |

| | |
|------------|---|
| FV | FUEL VENT (DIESEL), FIELD VERIFY |
| FWY | FREEWAY |
| G | GATE, GENERAL, GROUND, GAS |
| GA, GA | GAGE, GAUGE |
| GAL | GALLONS |
| GALV | GALVANIZED |
| GASP | GALVANIZED STEEL PIPE |
| GC | GENERAL CONTRACTOR, GROOVED COUPLING, CLAYEY GRAVEL |
| GD | GUTTER DRAIN |
| GEN | GENERATOR, GENERAL |
| GFI, GF | GROUND FAULT INTERRUPTER (ING) |
| GI | GALVANIZED IRON |
| GND | GROUND |
| GP | POORLY GRADED GRAVEL WITH CLAY AND SAND |
| GPM | GALLONS PER MINUTE |
| GR | GRADE |
| GRTG | GRATING |
| GV | GATE VALVE |
| GW | GROUNDWATER |
| H | HIGH, HEIGHT |
| HB | HOSE BIBB |
| HDG | HOT DIP GALVANIZE(D) |
| HDR | HEADER |
| HDPPE | HIGH DENSITY POLYETHYLENE |
| HDWR | HARDWARE |
| HEX | HEXAGON(AL) |
| HF | HOSE FAUCET |
| HGL | HYDRAULIC GRADE LINE |
| HMC | HARNESSED MECHANICAL COUPLING |
| HMJ | HARNESSED MECHANICAL JOINT |
| HP | HORSE POWER, HIGH POINT |
| HV | HOSE VALVE, HVAC SYSTEM, HIGH VOLTAGE |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| HWL | HIGH WATER LEVEL |
| HWS | HIGH WATER SURFACE |
| HYD | HYDRAULIC, HYDRANT |
| IBC | INTERNATIONAL BUILDING CODE |
| ID | INNER DIAMETER |
| IE | INVERT ELEVATION |
| IF, IFC | INSIDE FACE |
| IN | INCH, INLET |
| INCL | INCLUDING |
| INST | INSTALL |
| INSTR | INSTRUMENTATION, INSTRUMENT |
| INSUL | INSULATE(ION), INSULATING |
| INT | INTERIOR, INTERNAL |
| INV | INVERT |
| IRR, IRRIG | IRRIGATION |
| JB | JUNCTION BOX |
| JF | JOINT FILLER |
| JT | JOINT |
| KO | KNOCKOUT |
| KV | KILOVOLT |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATT |
| L | LENGTH |
| LB(S) | POUND(S) |
| LE | LEVEL ELECTRODE, LEVEL ELEMENT |
| LF | LINEAR FEET, LIGHT FIXTURE |
| LI | LEVEL INDICATOR |
| LIT | LEVEL INDICATING TRANSMITTER |
| LOC | LOCATION |
| LONG | LONGITUDINAL |
| LP | LOW POINT, LIGHT POLE |
| LR | LONG RADIUS |
| LSA | AIR LEVEL SENSOR (BUBBLER) |
| LT | LEFT, LIGHT |
| LVR | LOUVER |
| LWL | LOW WATER LEVEL |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MECH | MECHANICAL |
| MED | MEDIUM |
| MFR | MANUFACTURER |
| MG | MILLION GALLONS |
| MGD | MILLION GALLONS PER DAY |
| MH | MANHOLE |
| MIN | MINIMUM, MINUTE |
| MISC | MISCELLANEOUS EQUIPMENT |
| MJ | MECHANICAL JOINT |
| ML | SANDY SILT |
| MM | MILLIMETER |
| MOV | MOTOR OPERATED VALVE |
| MP | METERING PUMP |
| MSL | MEAN SEA LEVEL |
| MTL | METAL |
| MTR | MOTOR, MITER |

| | |
|-----------|---|
| (N) | NEW |
| N | NORTH, NORMAL, NEUTRAL, NORTHING |
| NA, N/A | NOT APPLICABLE |
| NBRID | NAPA BERRYESSA RESORT IMPROVEMENT DISTRICT |
| NC | NORMALLY CLOSED, NON COMBUSTIBLE |
| NDV | NEEDLE VALVE |
| NIP | NIPPLE |
| NO | NORMALLY OPEN, NUMBER |
| NOM | NOMINAL |
| NPS | NATIONAL PIPE SIZE |
| NPT | NATIONAL PIPE THREAD |
| NSG | NON-SHRINK GROUT |
| NTS | NOT TO SCALE |
| O/ | OVER |
| OB | WELL OVERBOARD FLOW |
| OC, O.C. | ON CENTER |
| OD, O.D. | OUTSIDE DIAMETER |
| OF, O/F | OVERFLOW |
| OHE | OVERHEAD ELECTRICAL |
| OHU | OVERHEAD UTILITY |
| OPNG | OPENING |
| ORG | ORGANIZATIONAL |
| P | PUMP, PAVEMENT |
| PA | PRESSURE AREA |
| PC | PORTLAND CEMENT |
| PE (P) | POLYETHYLENE (PIPE), PLAIN END |
| PERP | PERPENDICULAR |
| PG | PRESSURE GAUGE |
| PG&E | PACIFIC GAS AND ELECTRIC |
| PH | HYDROGEN ION MEASURE |
| PI | PRESSURE INDICATOR |
| PL | PLATE |
| P/L OR PL | PROPERTY LINE |
| PLC | PROGRAMMABLE LOGIC CONTROLLER |
| PLYWD | PLYWOOD |
| PP | POWER POLE |
| PR | PAIR, INSTRUMENT CABLE PAIR |
| PRCST | PRE-CAST |
| PRV | PRESSURE (REGULATING, RELIEF, REDUCING) VALVE |
| PS | PRESSURE SWITCH, PUMP STATION |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| PT | POINT, PRESSURE TREATED, PRESSURE TRANSDUCER |
| PTD | PAINTED |
| PVCH | POLYVINYL CHLORIDE HOSE |
| PVC(P) | POLYVINYL CHLORIDE (PIPE) |
| PVMT | PAVEMENT |
| QCV | QUICK COUPLING VALVE |
| QSD | QUALIFIED SWPPP DEVELOPER |
| R OR RAD | RADIUS |
| RD | ROAD |
| RED | REDUCE(R) |
| REINF | REINFORCE(D, ING, MENT) |
| REL | RELATIVE |
| REQD | REQUIRED |
| RFD | RECESSED FLOOR DRAIN |
| RPM | REVOLUTIONS PER MINUTE |
| RFRD | RECLAMATION RECREATION FACILITY DESIGN GUIDELINES |
| RT | RIGHT |
| RTU | REMOTE TERMINAL UNIT |
| RW | RECYCLED WATER |
| RWD | REDWOOD |
| RWV | RECYCLED WATER VALVE |
| S | STRUCTURAL, START, STOP SIGN, SOUTH |
| SAM | SAMPLE WATER |
| SC | CLAYEY SAND GRAVEL |
| SCH(ED) | SCHEDULE |
| SCL | STEEL CEMENT MORTAR LINED |
| SCLP | STEEL CEMENT MORTAR LINED AND PAINTED PIPE |
| SD | STORM DRAIN |
| SDDI | STORM DRAIN DROP INLET |
| SDCO | STORM DRAIN CLEAN OUT |
| SDDW | STORM DRAIN DRY WELL |
| SDJB | STORM DRAIN JUNCTION BOX |
| SECT | SECTION |
| SELC | STEEL EPOXY LINED AND COATED |
| SELM | STEEL EPOXY LINED AND MORTAR COATED |
| SF | SQUARE FEET |
| SH | SODIUM HYPOCHLORITE |
| SHT | SHEET |
| SIM | SIMILAR |
| SKL | SKYLIGHT |
| SL | SLOPE |
| SMLC | STEEL CEMENT MORTAR LINED AND COATED PIPE |
| SOG | SLAB ON GRADE |
| SOV | SOLENOID VALVE, SHUT OFF VALVE |
| SP | POORLY GRADED SAND WITH CLAY AND GRAVEL, STATIC PRESSURE, STAND PIPE, SPARE |
| SPEC | SPECIFICATION(S), SPECIFIED |
| SQ | SQUARE |
| SQ FT | SQUARE FEET |

| | |
|----------|---|
| SS | SANITARY SEWER, STAINLESS STEEL |
| SSMH | SANITARY SEWER MANHOLE |
| SST | STAINLESS STEEL |
| ST | STREET |
| ST | SELF TAPPING |
| STA | STATION |
| STL | STEEL |
| STRUCT | STRUCTURE (AL) |
| SWPPP | STORM WATER POLLUTION PREVENTION PLAN |
| T | TOP, TANK |
| T&B | TOP AND BOTTOM |
| TBD | TO BE DETERMINED |
| TBG | TUBING |
| TBM | TEMPORARY BENCH MARK |
| TC | TOP OF CURB, TOP OF CONCRETE |
| TDC | TRENCH DRAIN |
| TELE | TELEPHONE |
| TEMP | TEMPERATURE, TEMPERED, TEMPORARY |
| TG | TOP OF GRATE |
| THD | THREAD(ED) |
| THK | THICK(NESS) |
| THRU | THROUGH |
| TB | TRUST BLOCK |
| TJ | TOOLED JOINT |
| TM | THERMAL MAGNETIC |
| T.O. | TOP OF |
| TOC | TOP OF CONCRETE, TOP OF CURB |
| TOP | TOP OF PAVEMENT, TOP OF PIPE |
| TOR | TOP OF RESERVOIR |
| TOS | TOP OF SLAB |
| TOW | TOP OF WALL |
| TPZ | TREE PROTECTION ZONE |
| TRANS | TRANSFORMER |
| TRD | THREADED |
| T/S | TOP OF SWALE |
| TV | TELEVISION |
| TW | TREATED WATER, TOP OF WALL |
| TYP, TYP | TYPICAL |
| UBC | UNIFORM BUILDING CODE |
| UG | UNDERGROUND |
| UNO | UNLESS NOTED OTHERWISE |
| V | VENT, VALVE, VOLT(S)(AGE) |
| VAR | VARIABLE |
| VB | VALVE BOX |
| VERT | VERTICAL |
| VF | VENT FAN |
| VFD | VARIABLE FREQUENCY DRIVE |
| VFF | VAULT FINISH FLOOR |
| VIF | VERIFY IN FIELD |
| VP | VENT PIPE |
| VR | VENT RISER |
| VRV | VACUUM RELIEF VALVE |
| W | WATER, WIDE, WATTS, WEST, WIDTH |
| W/ | WITH |
| W/A | WHERE APPLICABLE |
| WL | WATER LEVEL |
| WM | WATER MAIN, WATER METER |
| WMS | WIRE MESH SCREEN |
| W/O | WITHOUT |
| WS | WATER STOP, WATER SURFACE, WATER SUPPLY |
| WSE | WATER SURFACE ELEVATION |
| WT | WEIGHT |
| WV | WATER VALVE |
| WWF | WELDED WIRE FABRIC |
| XFMR | TRANSFORMER |



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Managing Water in the West

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BUREAU OF RECLAMATION
CENTRAL CALIFORNIA AREA OFFICE
LANE BERRYESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYY-MM-DD

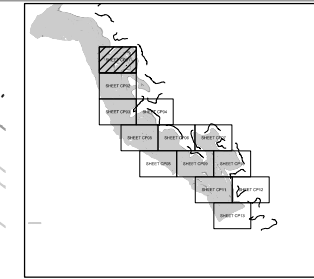
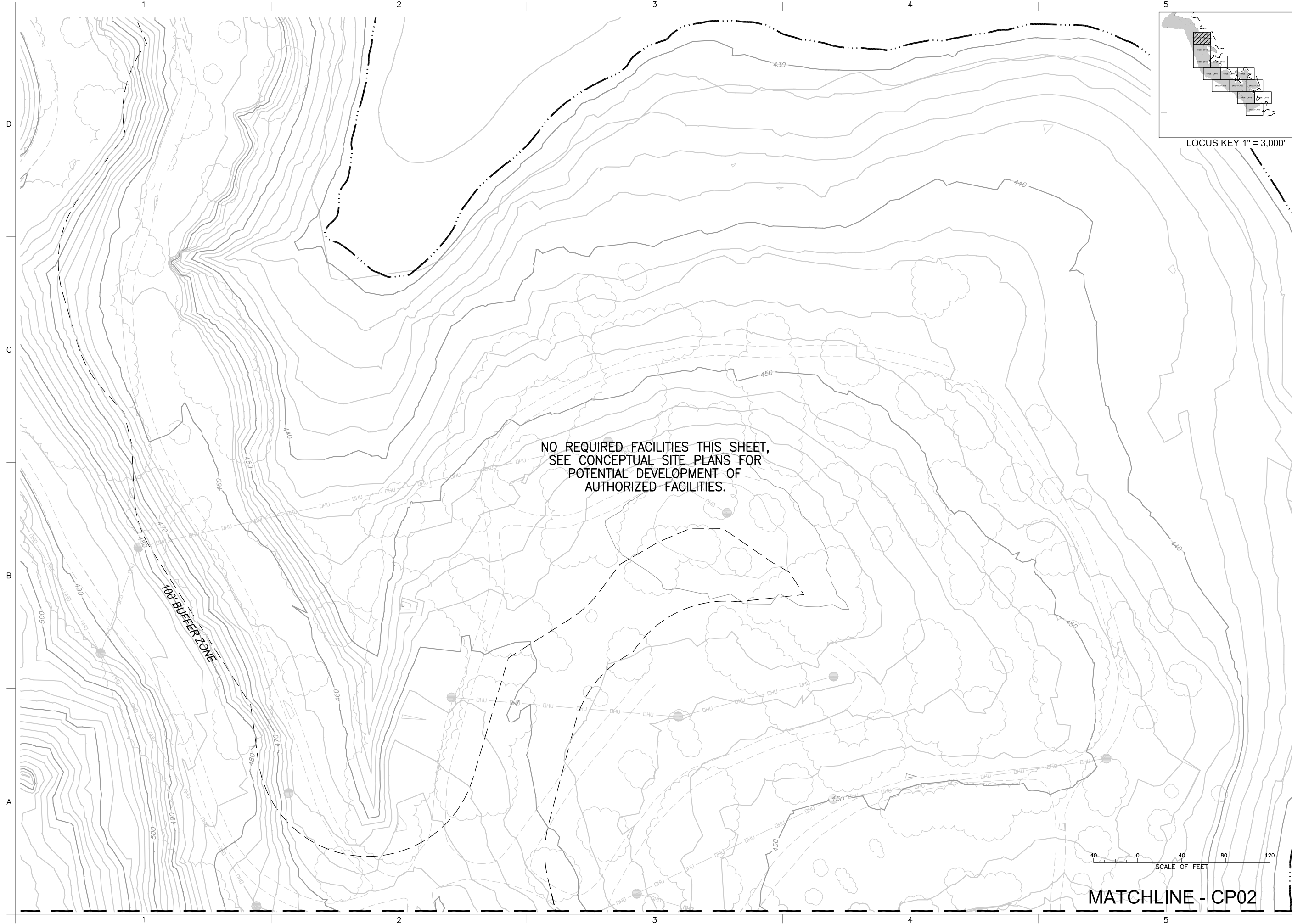
MONTICELLO SHORES
ABBREVIATIONS

LB-MSRA-G06
SHEET X OF X

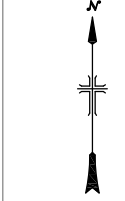
STA. CDM SMITH
YYY-MM-DD
10594.2350.019

YYY-MM-DD
ACCEPTED:
NAME, PROF. ABR

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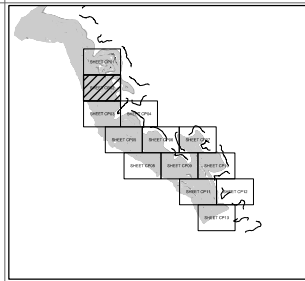
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**MONTICELLO SHORES
SITE PLAN I**

LB-MSRA-CP01
SHEET X OF X

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108994.230.019

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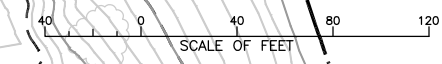


LOCUS KEY 1" = 3,000'

MATCHLINE - CP01

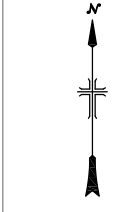
NO REQUIRED FACILITIES THIS SHEET,
SEE CONCEPTUAL SITE PLANS FOR
POTENTIAL DEVELOPMENT OF
AUTHORIZED FACILITIES.

100' BUFFER ZONE



MATCHLINE - CP03

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DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
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Compiled from photography: 201163
Date of photography: October 20, 2011

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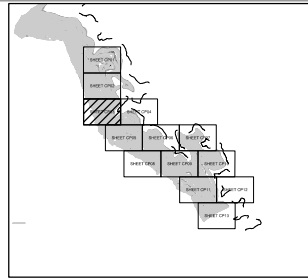
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NAME
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STATION NAME (CITY, ST) YYYY-MM-DD

MONTICELLO SHORES
SITE PLAN II

LB-MSRA-CP02
SHEET X OF X

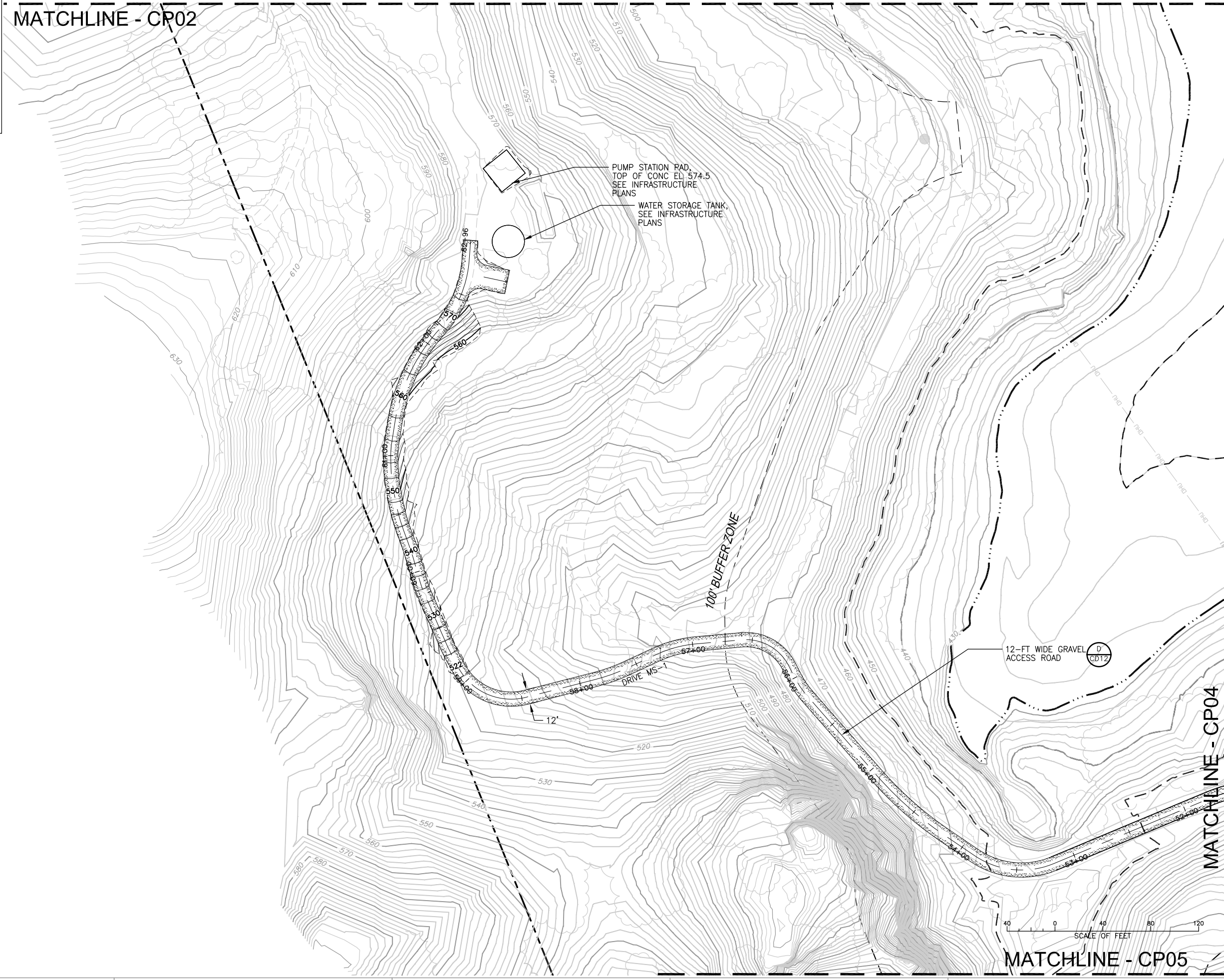
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NAME, PROF. ABBR. ACCEPTED: 100994.230.019

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LOCUS KEY 1" = 3,000'

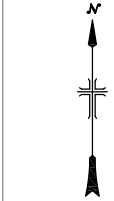
MATCHLINE - CP02



MATCHLINE - CP04

MATCHLINE - CP05

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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE

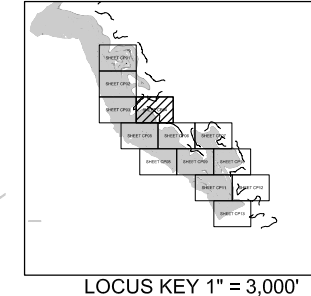
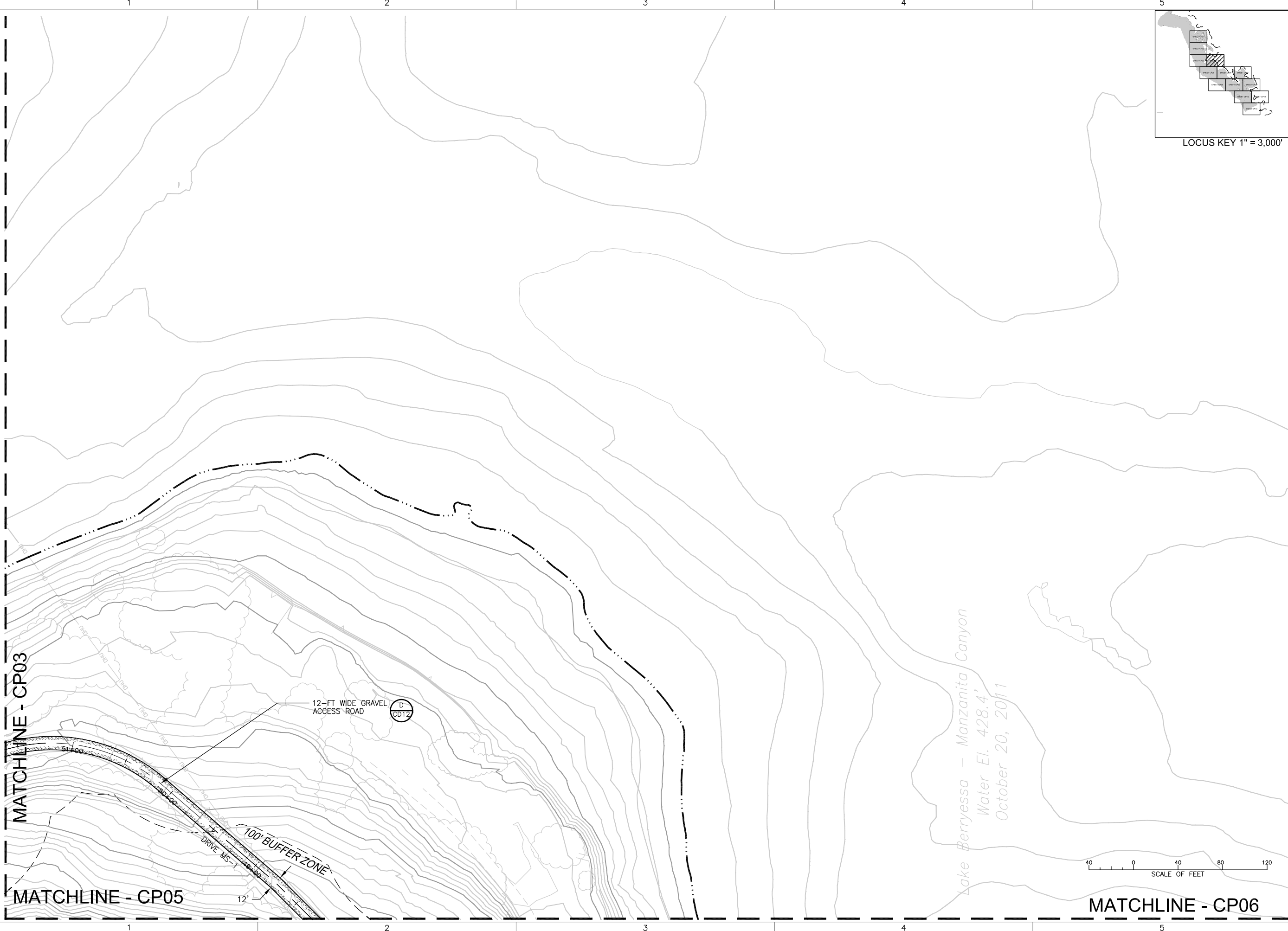
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
SITE PLAN III**

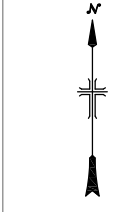
LB-MSRA-CP03
SHEET X OF X

Yyyy-MM-DD
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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

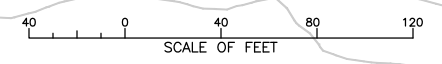
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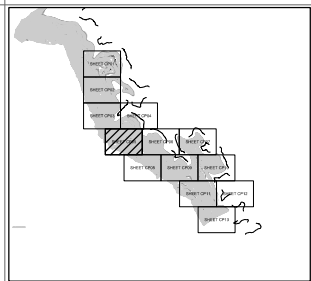
**MONTICELLO SHORES
SITE PLAN IV**

LB-MSRA-CP04
SHEET X OF X



MATCHLINE - CP06

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LOCUS KEY 1" = 3,000'

MATCHLINE - CP03

MATCHLINE - CP04

30' X 30' STRUCTURE FOR GROUND WATER WELL AND TREATMENT WITH PARKING
FFE: 506' SEE INFRASTRUCTURE PLANS

DRIVE MS-2

12-FT WIDE GRAVEL ACCESS ROAD

D
CD12

100' BUFFER ZONE

100' BUFFER ZONE

MATCHLINE - CP06

MATCHLINE - CP08

⊕ ALWAYS THINK SAFETY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
CENTRAL CALIFORNIA AREA OFFICE
LANE BERRIESTA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

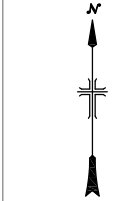
SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

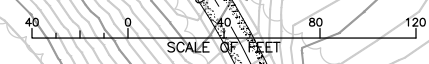
CONTRACTOR
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
SITE PLAN V**

LB-MSRA-CP05
SHEET X OF X



Yyyy-mm-dd
ACCEPTED:
NAME, PROF. ABRV
STA. CDM SMITH
100994.230.019



1 2 3 4 5

D

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B

A

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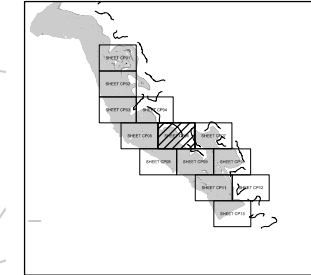
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MATCHLINE - CP04

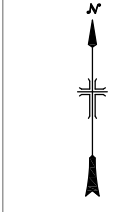
MATCHLINE - CP05

MATCHLINE - CP08



LOCUS KEY 1" = 3,000'

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Managing Water in the West



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LANE BERRIESTA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

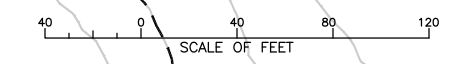
CONTRACTOR
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
SITE PLAN VI**

LB-MSRA-CP06
SHEET X OF X

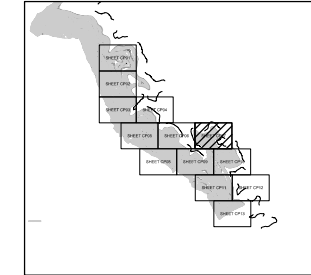
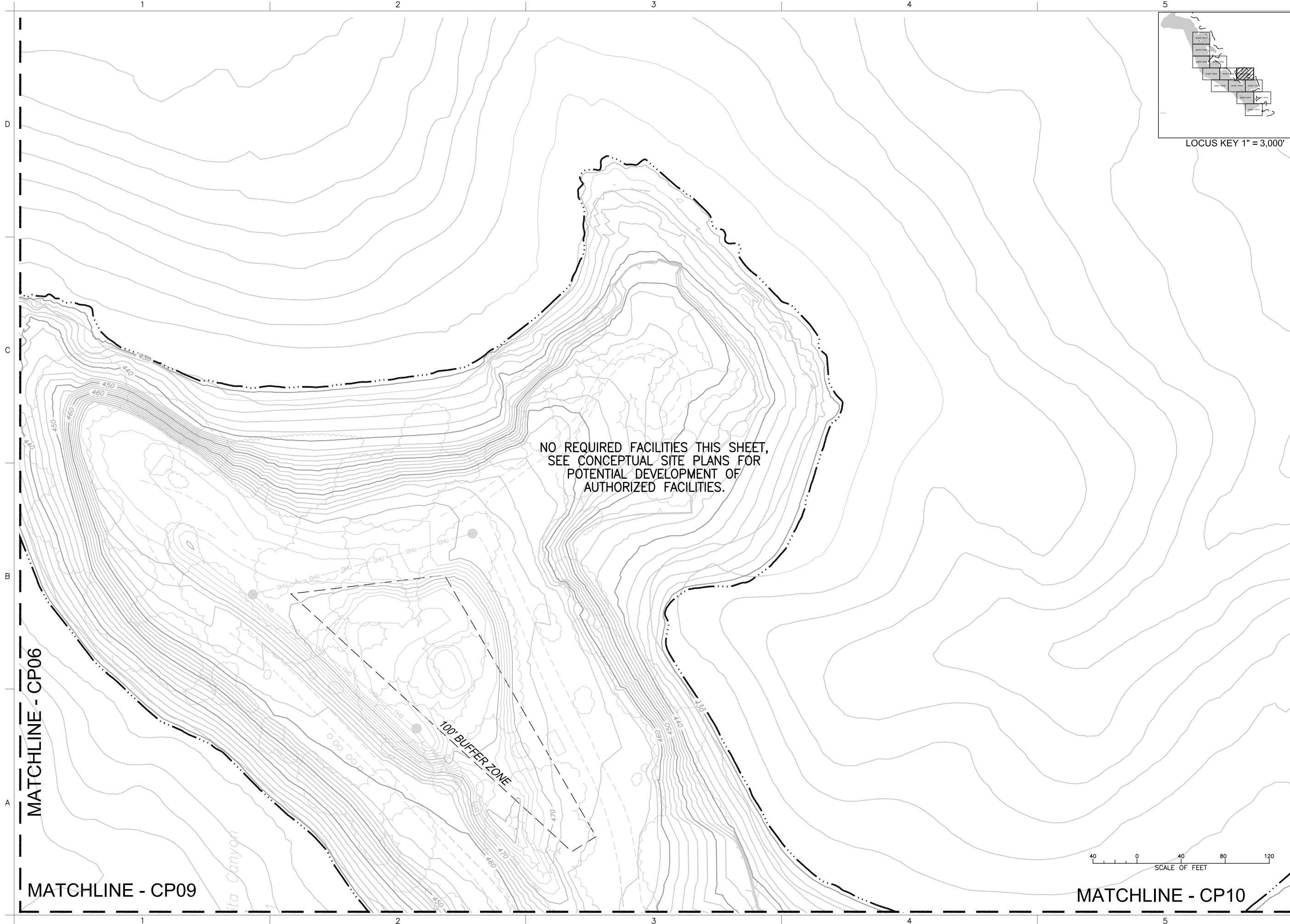
NO REQUIRED FACILITIES THIS SHEET,
SEE CONCEPTUAL SITE PLANS FOR
POTENTIAL DEVELOPMENT OF
AUTHORIZED FACILITIES.

100' BUFFER ZONE

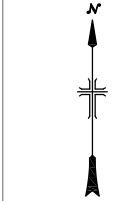


MATCHLINE - CP09

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CENTRAL CALIFORNIA AREA OFFICE
LAKE BERRESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

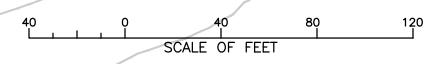
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ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
SITE PLAN VII**

LB-MSRA-CP07
SHEET X OF X



MATCHLINE - CP10

MATCHLINE - CP09

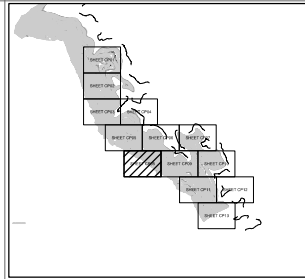
MATCHLINE - CP06

ita Canyon

100' BUFFER ZONE

NO REQUIRED FACILITIES THIS SHEET,
SEE CONCEPTUAL SITE PLANS FOR
POTENTIAL DEVELOPMENT OF
AUTHORIZED FACILITIES.

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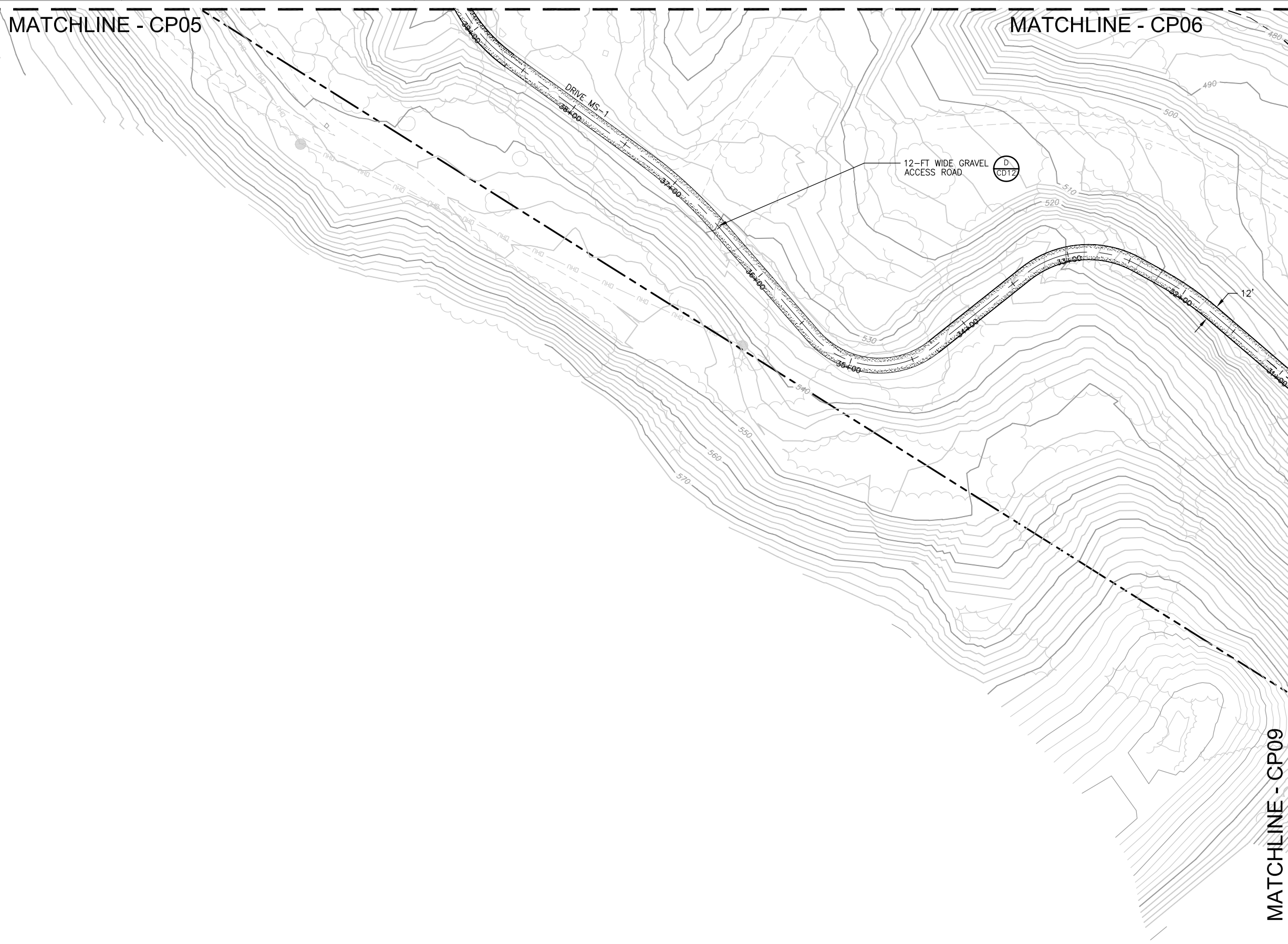


LOCUS KEY 1" = 3,000'

MATCHLINE - CP05

MATCHLINE - CP06

MATCHLINE - CP09



12-FT WIDE GRAVEL ACCESS ROAD

D CD12

RECLAMATION
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CENTRAL CALIFORNIA AREA OFFICE
LANE BERRESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

DRAWN

CONTRACTOR

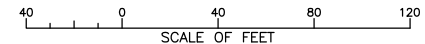
ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
SITE PLAN VIII**

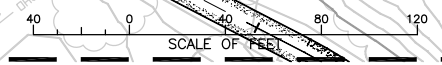
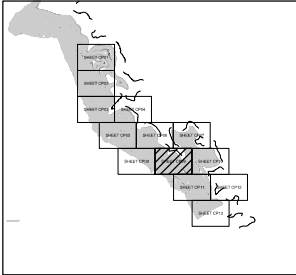
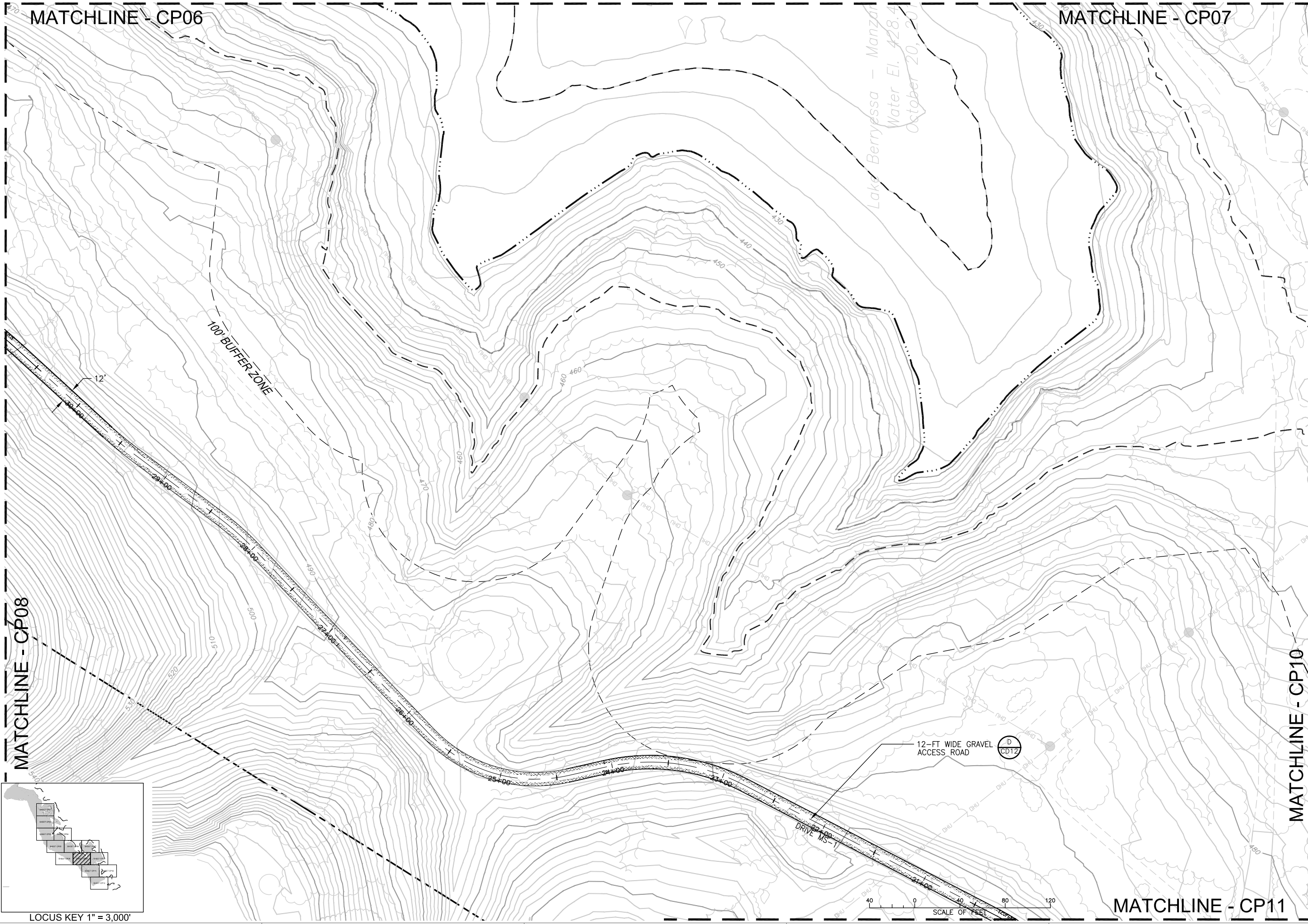
LB-MSRA-CP08

SHEET X OF X

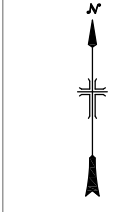


Yyyy-MM-DD
ACCEPTED:
NAME, PROF. ABBR
STA. CDM SMITH
108998.2330.019

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LAKE BERRYESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE

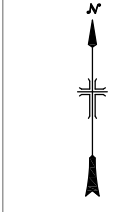
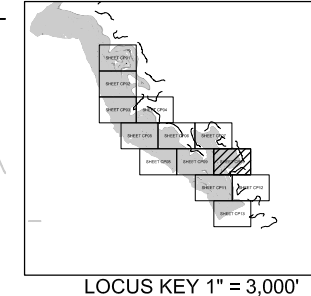
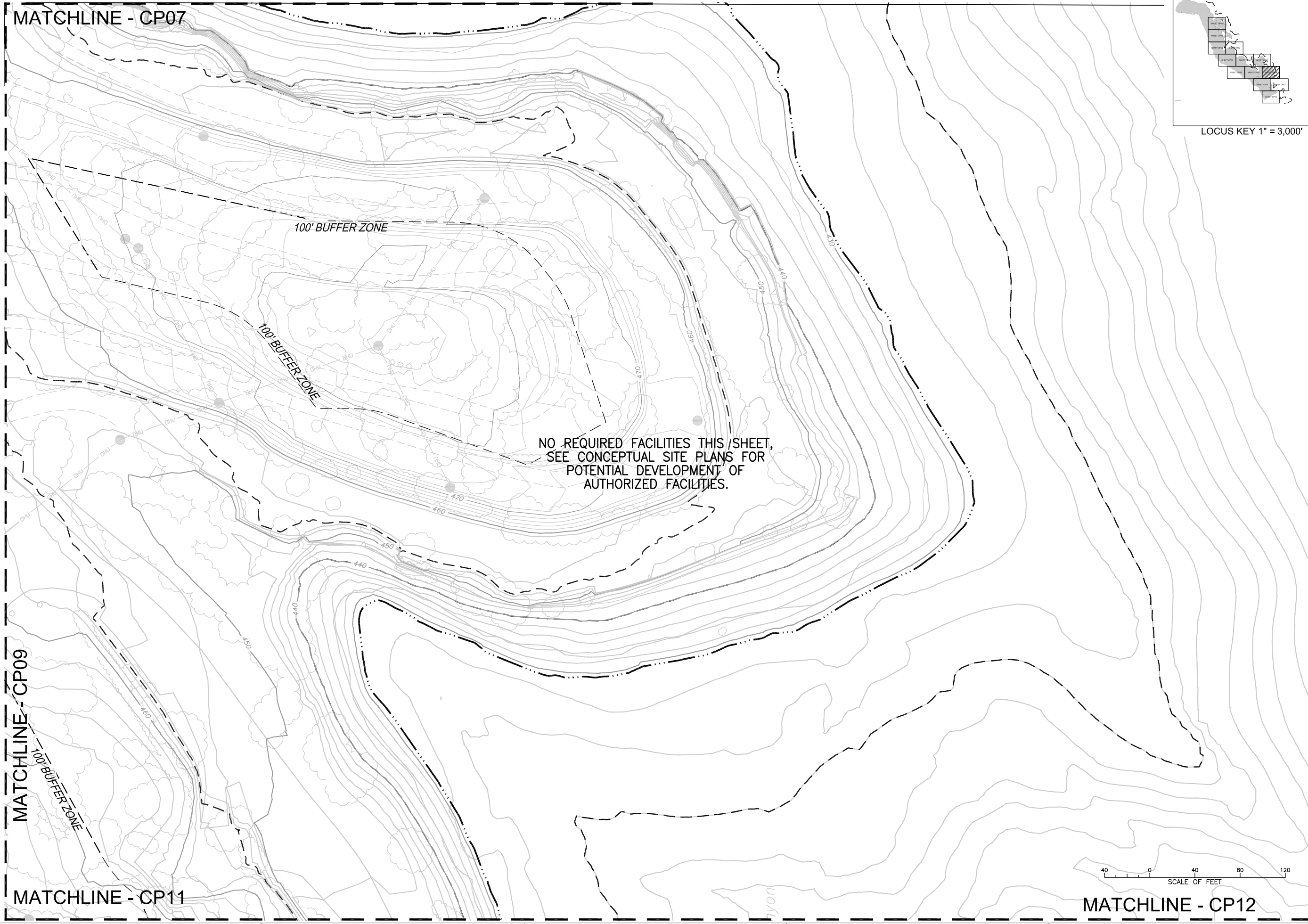
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
SITE PLAN IX**

LB-MSRA-CP09
SHEET X OF X

XXXX-MM-DD
NAME, PROF. ABR.
STA. CDM SMITH
100994.2330.019

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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

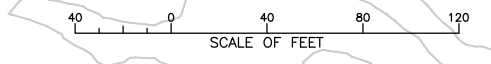
CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
SITE PLAN X**

LB-MSRA-CP10
SHEET X OF X



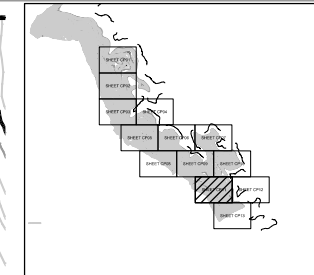
MATCHLINE - CP12

Yyyy-MM-DD
NAME, PROF. ABRV
STA. CDM SMITH
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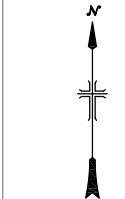
MATCHLINE - CP09

MATCHLINE - CP10

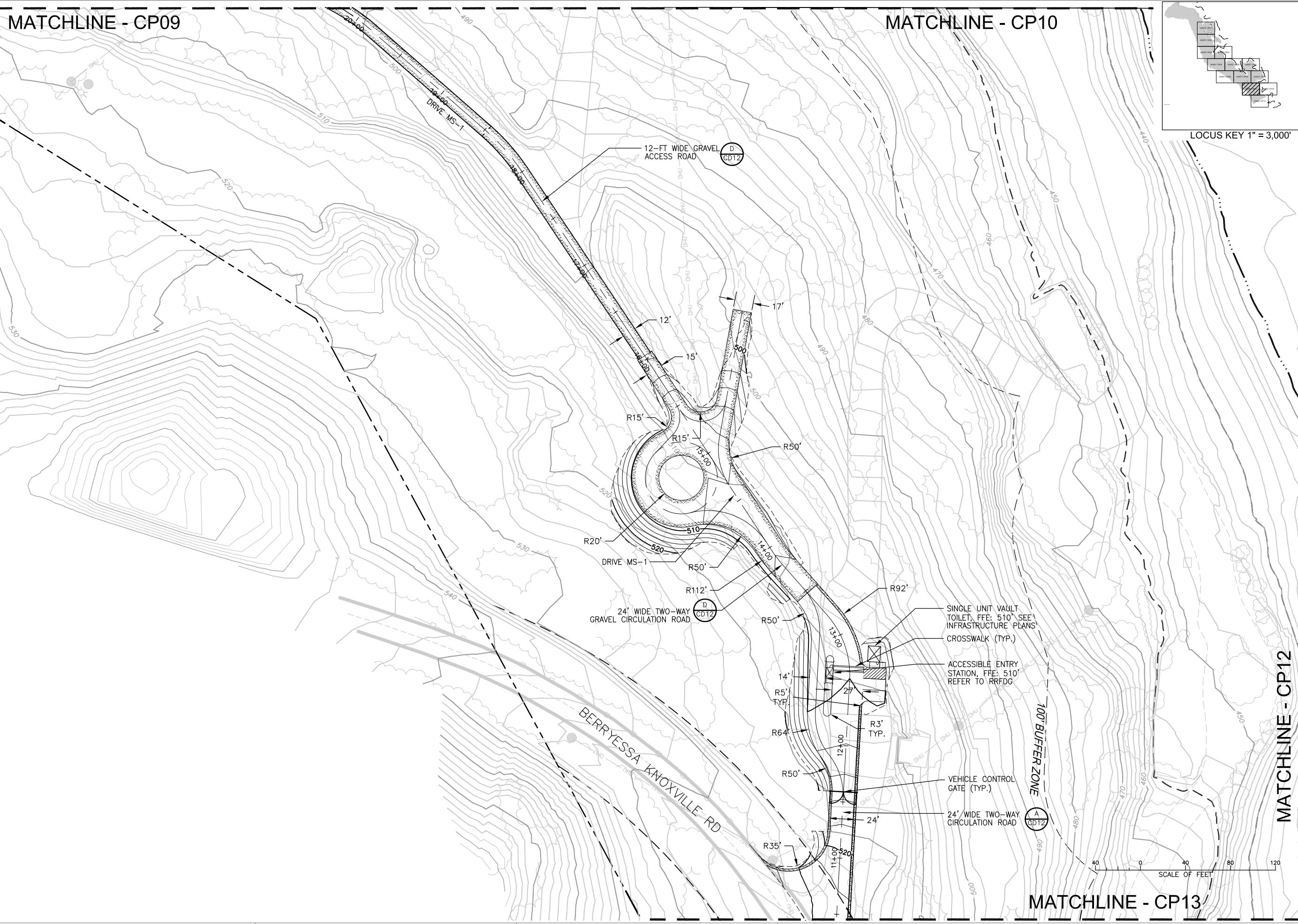


LOCUS KEY 1" = 3,000'

RECLAMATION
Managing Water in the West



STATION NAME (CITY, ST) YYY-MM-DD
STA. CDM SMITH 100994.2350.019
NAME, PROF. ABR. YYY-MM-DD



MATCHLINE - CP12

MATCHLINE - CP13

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LANE BERRYESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR
ACCEPTED NAME TITLE
STATION NAME (CITY, ST) YYY-MM-DD

**MONTICELLO SHORES
SITE PLAN XI**

LB-MSRA-CP11
SHEET X OF X



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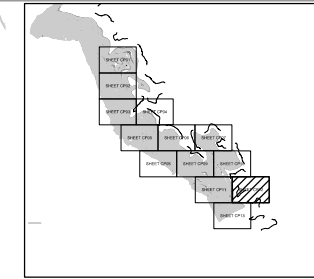
MATCHLINE - CP10

MATCHLINE - CP11

MATCHLINE - CP13

Lake Berryessa - Manzanita
Water El. 428.4'
October 20, 2011

NO REQUIRED FACILITIES THIS SHEET,
SEE CONCEPTUAL SITE PLANS FOR
POTENTIAL DEVELOPMENT OF
AUTHORIZED FACILITIES.



RECLAMATION
Managing Water in the West



Yyyy-MM-DD
NAME, PROF. ABRV
STA, CDM SMITH
100998.2330.019

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CENTRAL CALIFORNIA AREA OFFICE
LAKE BERRYESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

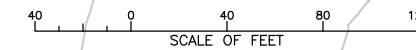
CONTRACTOR

ACCEPTED
NAME
TITLE

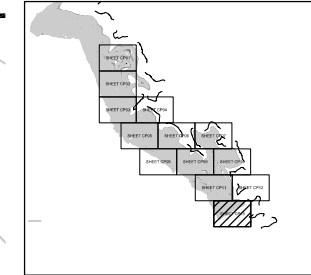
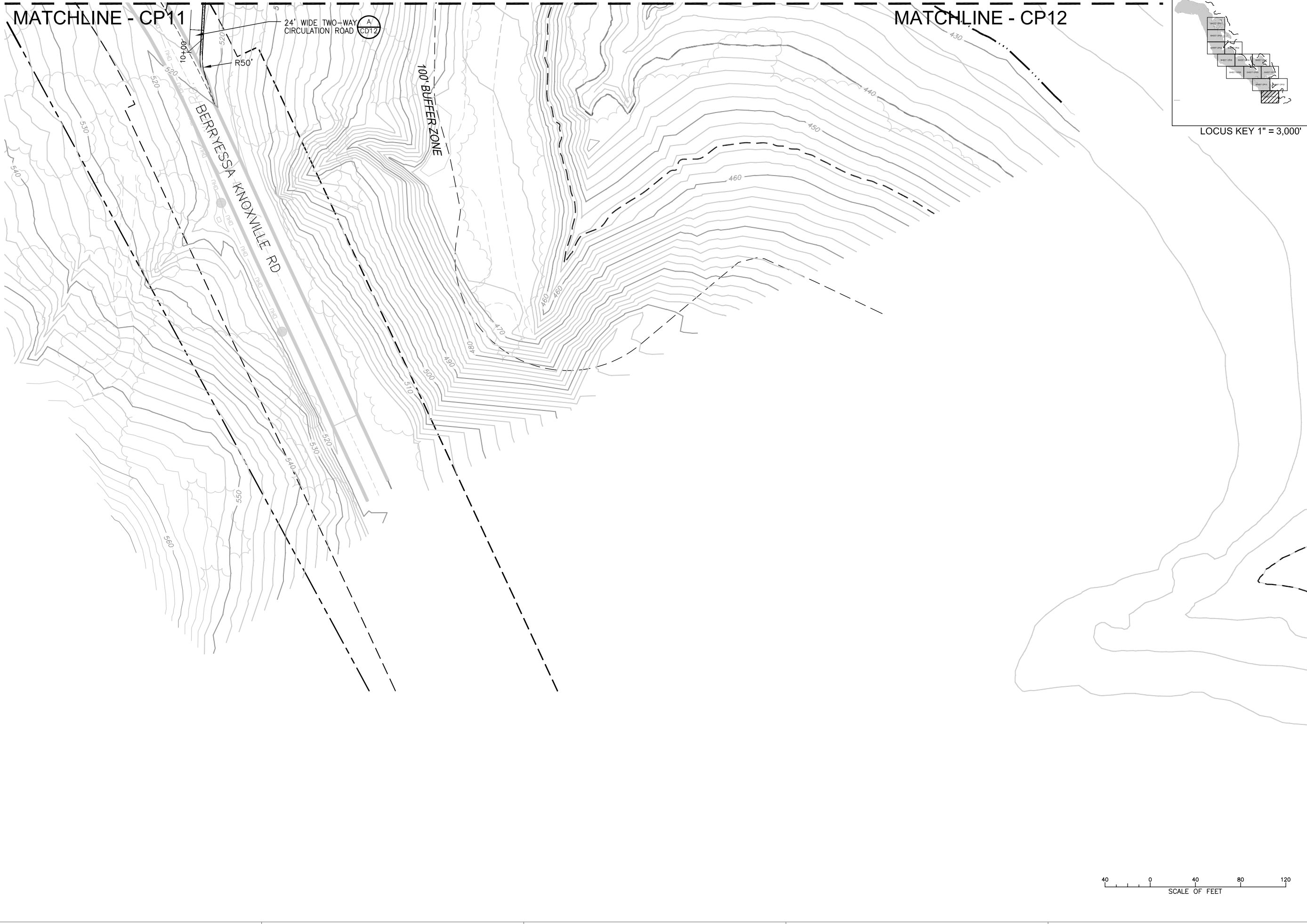
STATION NAME (CITY, ST) Yyyy-MM-DD

MONTICELLO SHORES
SITE PLAN XII

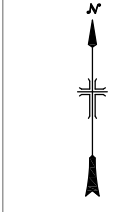
LB-MSRA-CP12
SHEET X OF X



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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

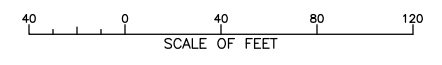
CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

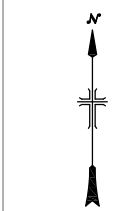
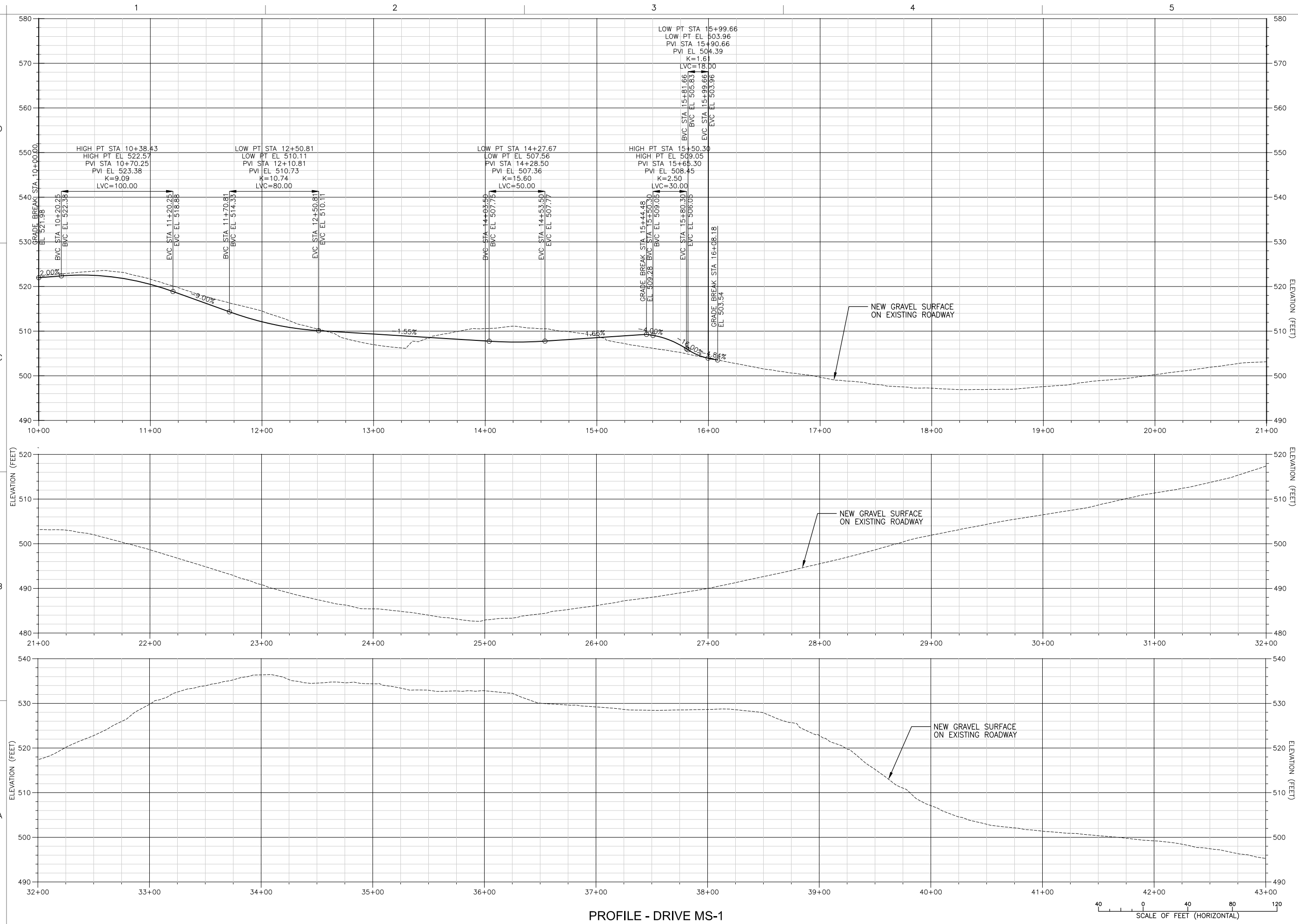
**MONTICELLO SHORES
SITE PLAN XIII**

LB-MSRA-CP13
SHEET X OF X



STA. CDM SMITH
100998.230.019
YYYY-MM-DD
ACCEPTED:
NAME, PROF. ABRB

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LANE BERRESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

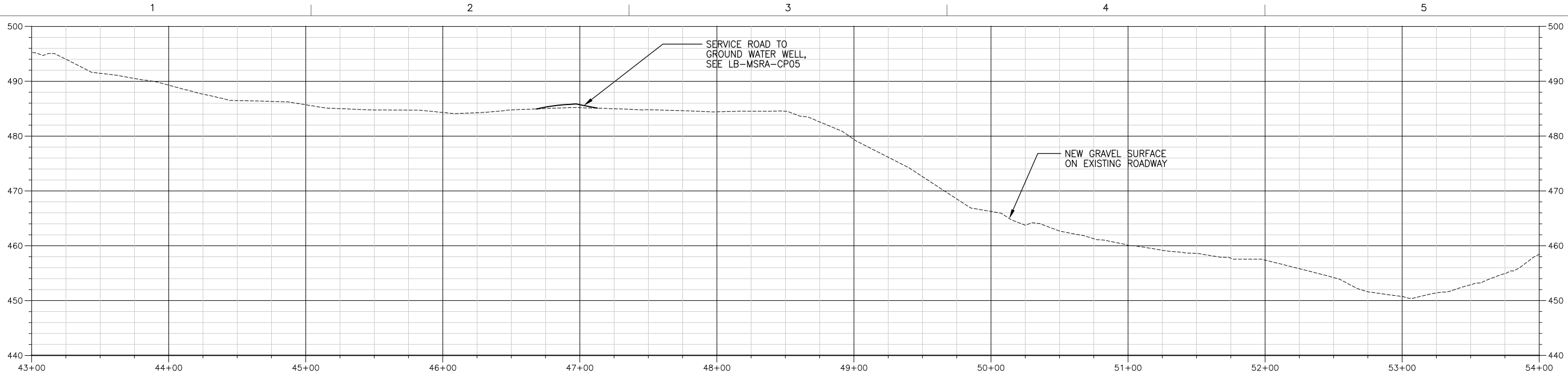
CONTRACTOR
DRAWN
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYY-MM-DD

**MONTICELLO SHORES
GRADING AND ROAD
DETAILS I**

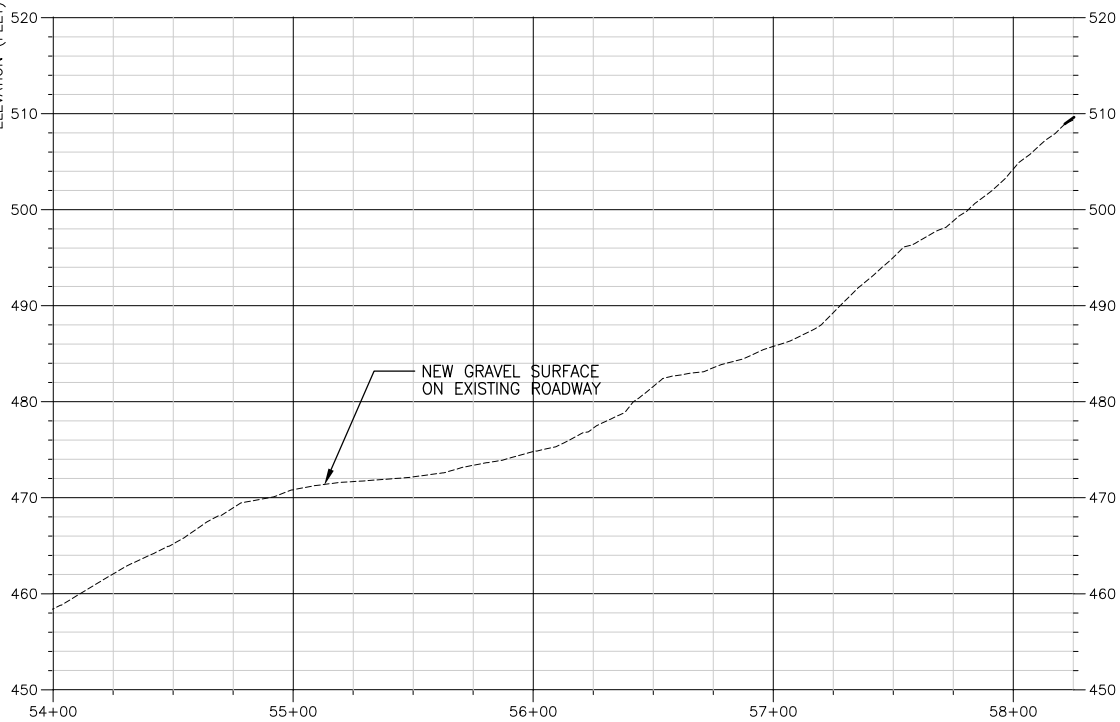
LB-MSRA-CD01

STA. COM SMITH
10899a.230.019
ACCEPTED:
NAME, PROF. ABR

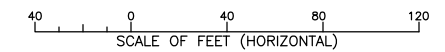
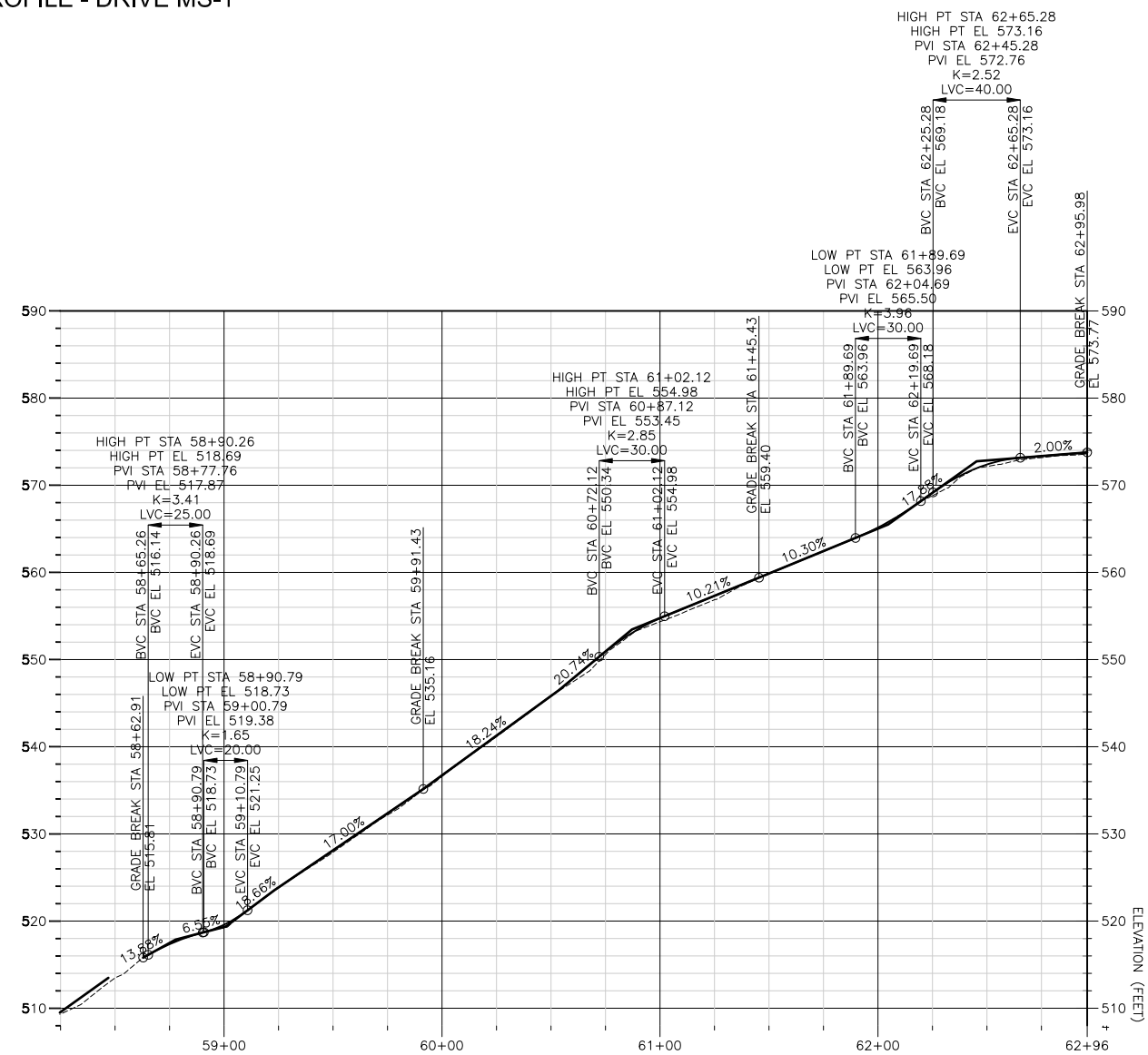
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PROFILE - DRIVE MS-1



PROFILE - DRIVE MS-1



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CENTRAL CALIFORNIA AREA OFFICE
LANE BERRERSSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

DRAWN _____ CONTRACTOR _____
ACCEPTED _____
NAME _____ TITLE _____
STATION NAME (CITY, ST) _____ YYYY-MM-DD _____

**MONTICELLO SHORES
GRADING AND ROAD
DETAILS II**

LB-MSRA-CD02

STA. CDM SMITH
10899A.230.019
YYYY-MM-DD
ACCEPTED:
NAME, PROF. ABRB

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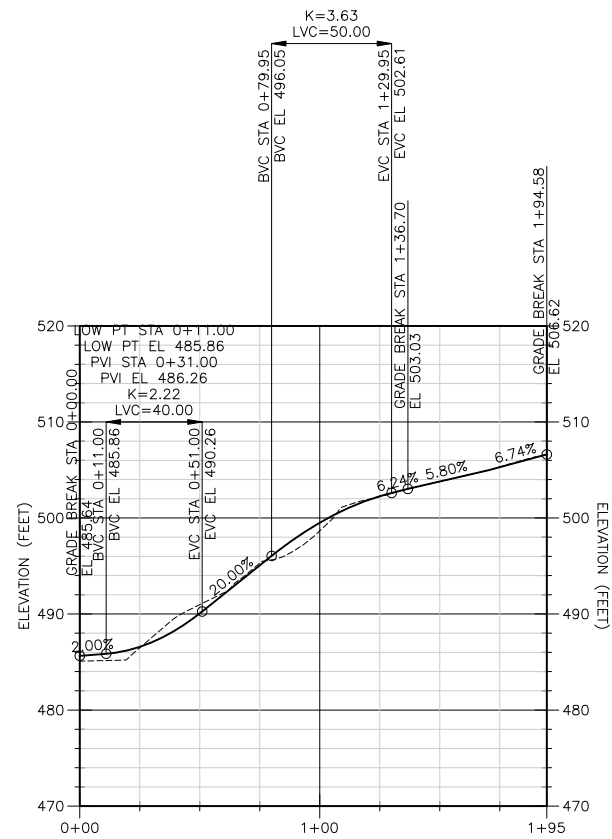
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2

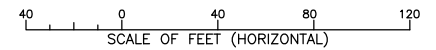
3

4

5



PROFILE - DRIVE MS-2



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BUREAU OF RECLAMATION
CENTRAL CALIFORNIA AREA OFFICE
LANE BERRESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED

NAME

TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
GRADING AND ROAD
DETAILS III**

LB-MSRA-CD03

ACCEPTED: YYYYY-MM-DD
NAME, PROF. ABBR. STA, CDM SMITH
10899A.230.019

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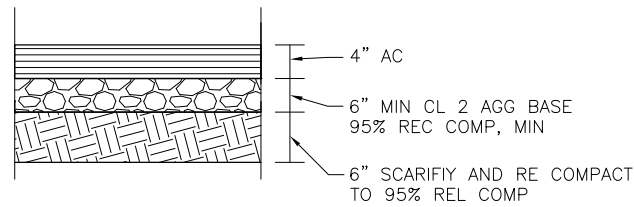
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2

3

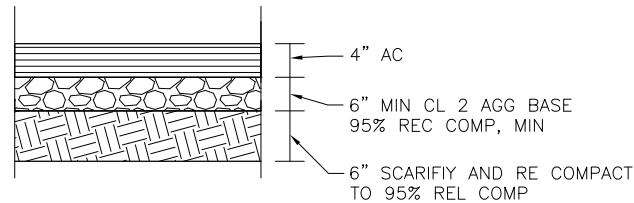
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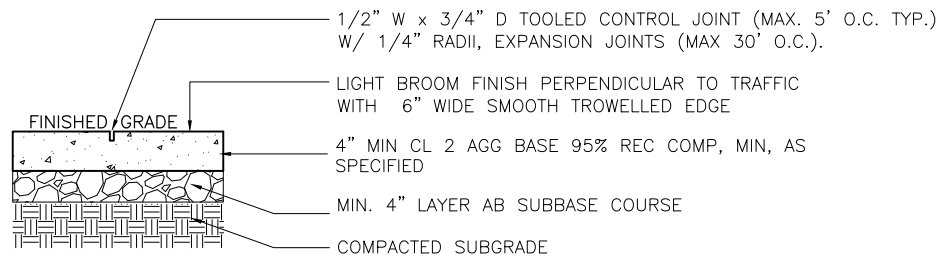
TYPICAL ACCESS DRIVE PAVEMENT

DETAIL
NTS (A)



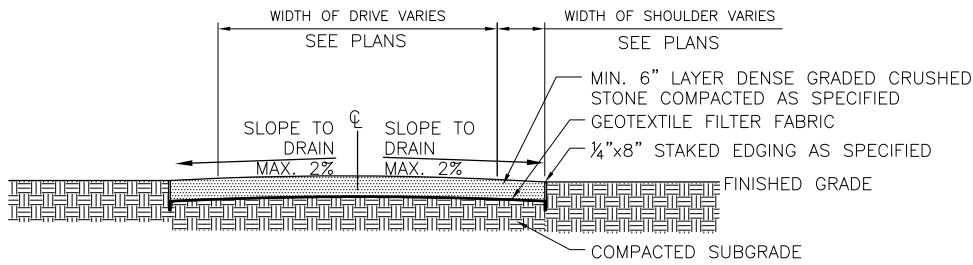
TYPICAL PARKING AREA PAVEMENT

DETAIL
NTS (B)



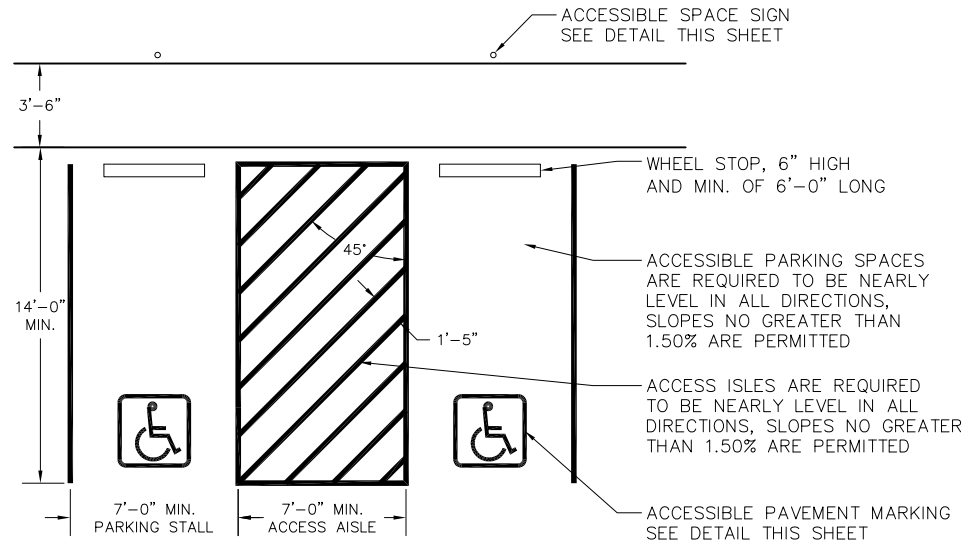
TYPICAL WALKWAY PAVEMENT

DETAIL
NTS (C)



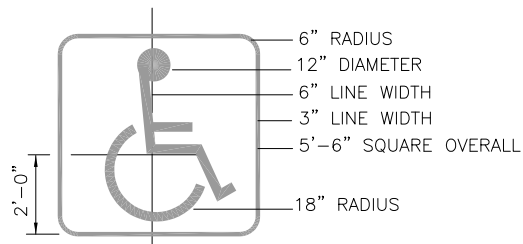
GRADED CRUSHED AGGREGATE STONE

DETAIL
NTS (D)



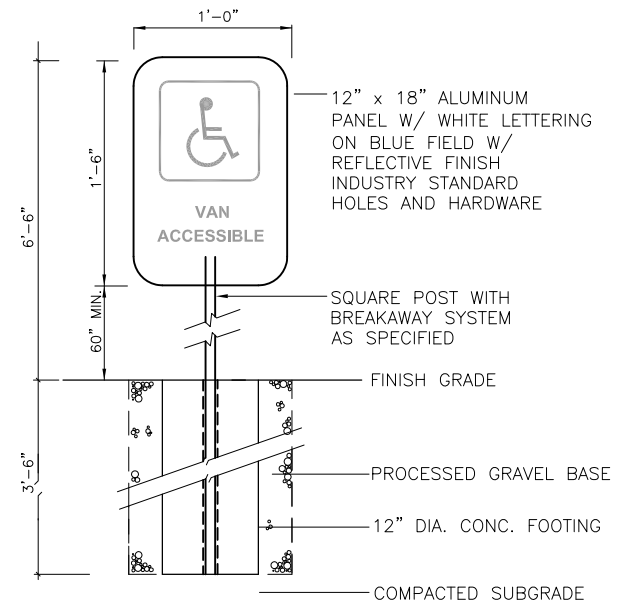
TYPICAL ACCESSIBLE PARKING LAYOUT

DETAIL
NTS (E)



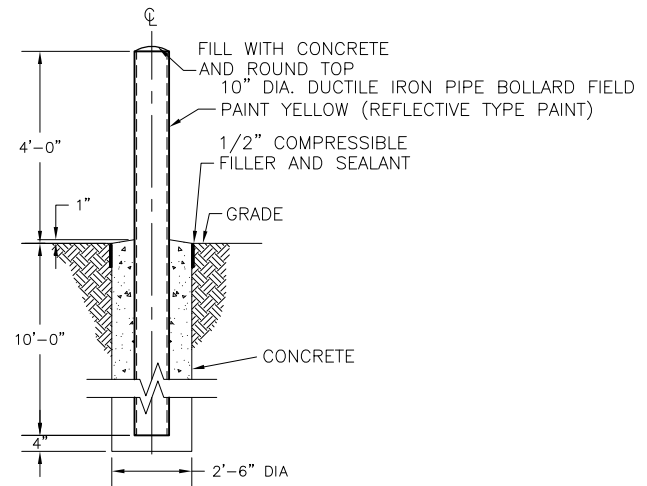
TYPICAL ACCESSIBLE PAVEMENT SYMBOL

DETAIL
NTS (F)



TYPICAL ACCESSIBLE PARKING SIGN

DETAIL
NTS (G)



BOLLARD

DETAIL
NTS (H)



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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

DRAWN _____ CONTRACTOR
ACCEPTED _____
NAME _____ TITLE _____
STATION NAME (CITY, ST) _____ YYYY-MM-DD _____

**MONTICELLO SHORES
GRADING AND ROAD
DETAILS XII**

LB-MSRA-CD12

1

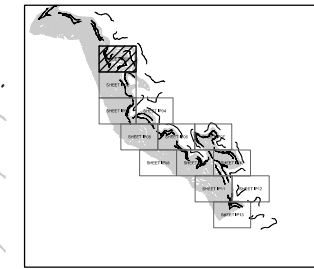
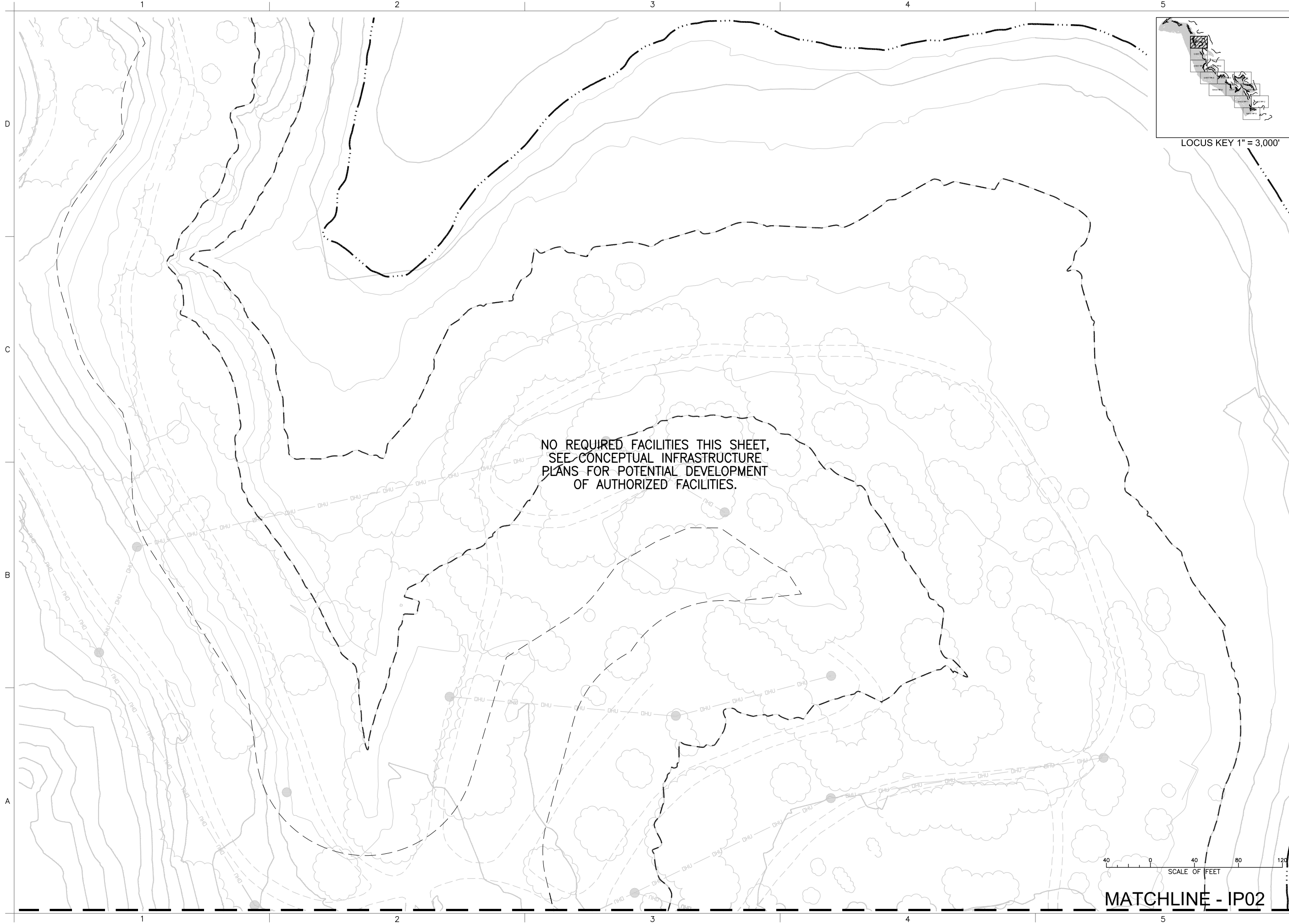
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3

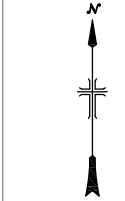
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5

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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

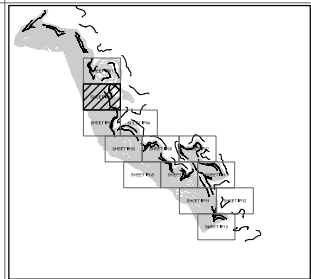
**MONTICELLO SHORES
INFRASTRUCTURE PLAN I**

LB-MSRA-IP01
SHEET X OF X

XXXX-MM-DD
NAME, PROF. ABBR
STA. CDM SMITH
108998.2330.019

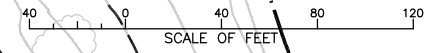
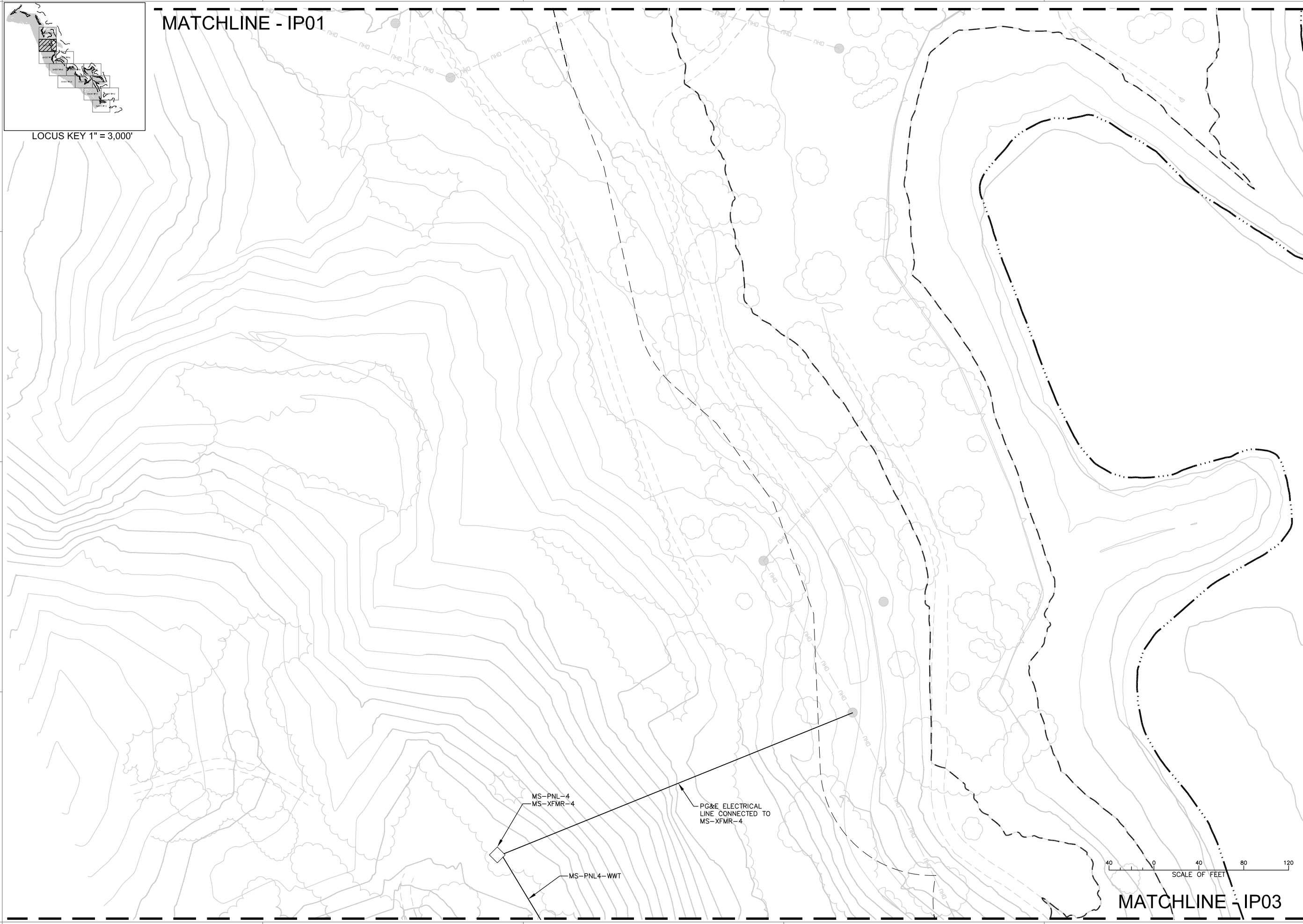
MATCHLINE - IP02

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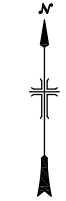
LOCUS KEY 1" = 3,000'

MATCHLINE - IP01



MATCHLINE - IP03

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Yyyy-MM-DD
NAME, PROF. ABBR

STA, CDM SMITH
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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

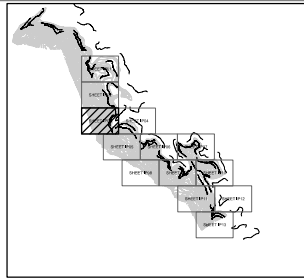
ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) Yyyy-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN II**

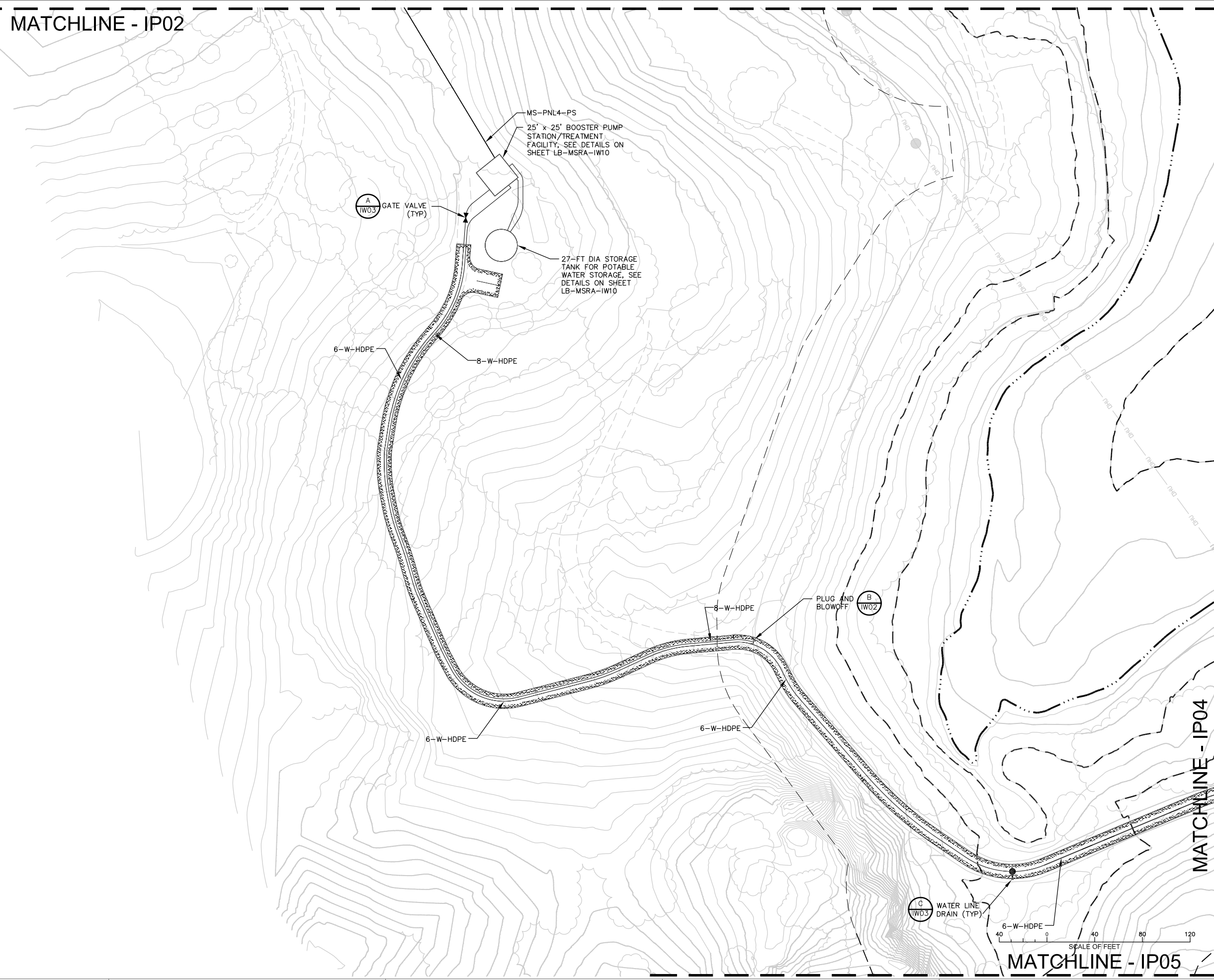
LB-MSRA-IP02
SHEET X OF X

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LOCUS KEY 1" = 3,000'

MATCHLINE - IP02



MS-PNL4-PS
25' x 25' BOOSTER PUMP
STATION/TREATMENT
FACILITY, SEE DETAILS ON
SHEET LB-MSRA-IW10

A
TW03
GATE VALVE
(TYP)

27-FT DIA STORAGE
TANK FOR POTABLE
WATER STORAGE, SEE
DETAILS ON SHEET
LB-MSRA-IW10

6-W-HDPE

8-W-HDPE

8-W-HDPE

B
TW02
PLUG AND
BLOWOFF

6-W-HDPE

6-W-HDPE

C
TW03
WATER LINE
DRAIN (TYP)

6-W-HDPE
SCALE OF FEET
0 40 80 120

MATCHLINE - IP05

MATCHLINE - IP04

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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE

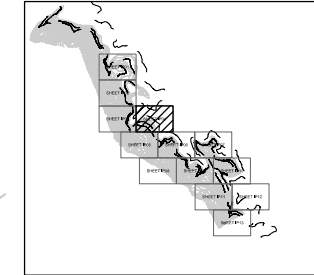
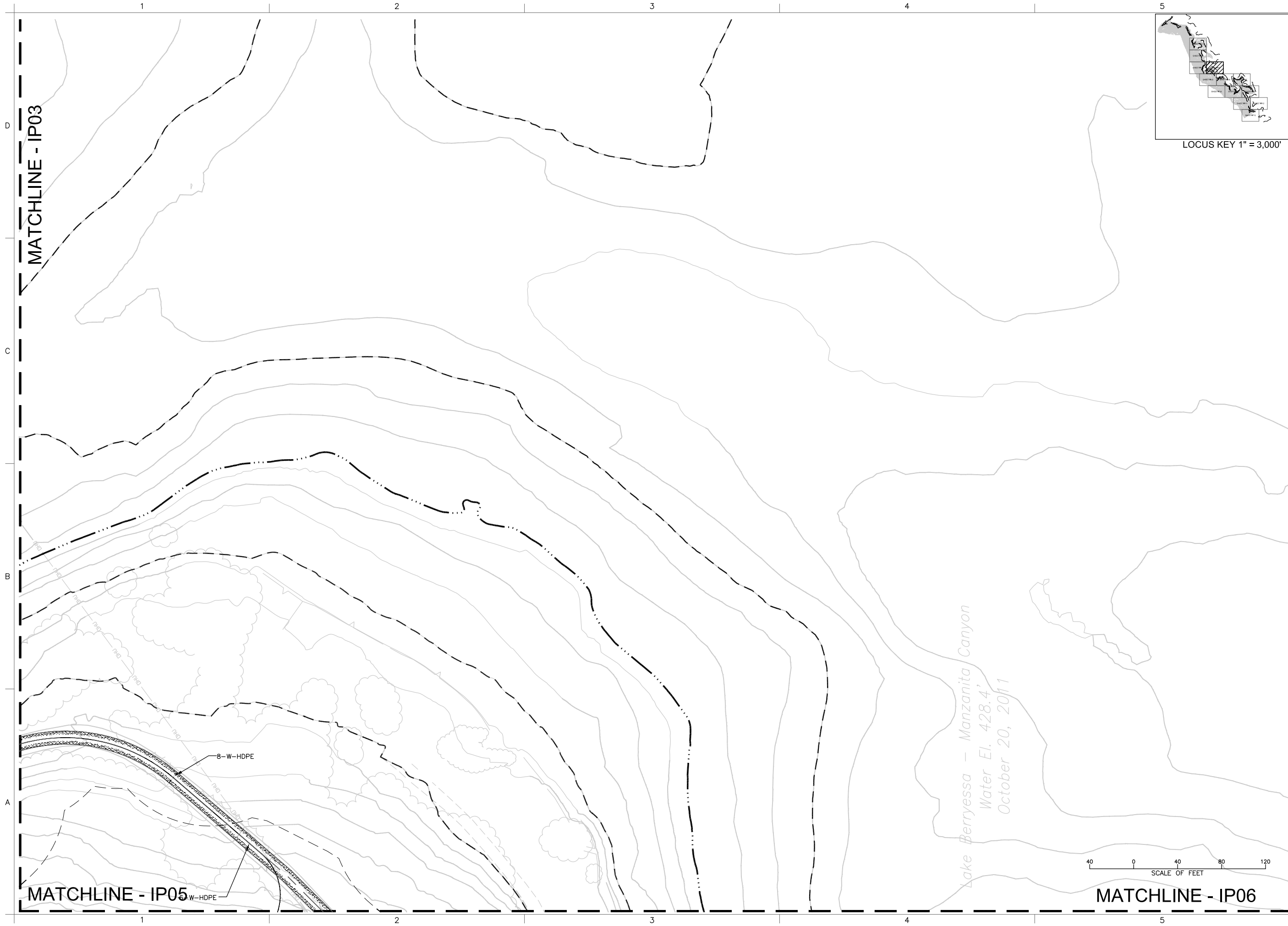
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN III**

LB-MSRA-IP03
SHEET X OF X

Yyyy-MM-DD
NAME, PROF. ABBR
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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

DRAWN

CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN IV**

LB-MSRA-IP04
SHEET X OF X

MATCHLINE - IP03

MATCHLINE - IP05

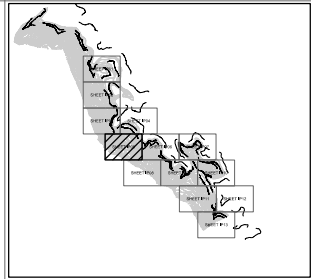
MATCHLINE - IP06

Lake Berryessa - Manzanita Canyon
Water El. 428.4'
October 20, 2011

8-W-HDPE

8-W-HDPE

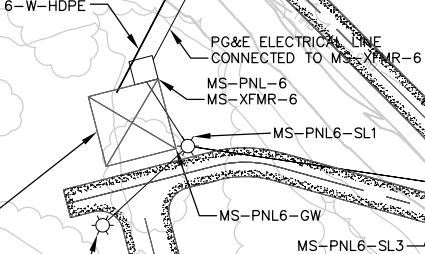
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MATCHLINE - IP03

MATCHLINE - IP04

30 FT x 30 FT PAD FOR GROUNDWATER WELL AND TREATMENT WITH PARKING SEE DETAILS ON SHEET LB-MSRA-IW08



6-W-HDPE
PG&E ELECTRICAL LINE CONNECTED TO MS-XFMR-6
MS-PNL-6
MS-XFMR-6
MS-PNL6-SL1
MS-PNL6-GW
MS-PNL6-SL3
MS-PNL6-SL2

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NAME, PROF. ABBR. 108994.230.019

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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED

NAME

TITLE

STATION NAME (CITY, ST)

YYY-MM-DD

CONTRACTOR

ACCEPTED

NAME

TITLE

STATION NAME (CITY, ST)

YYY-MM-DD

MONTICELLO SHORES
INFRASTRUCTURE PLAN V

LB-MSRA-IP05
SHEET X OF X

SCALE 1" = 40 FEET

MATCHLINE - IP08

MATCHLINE - IP06

1

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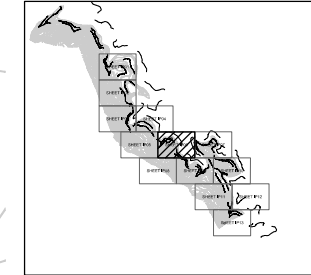
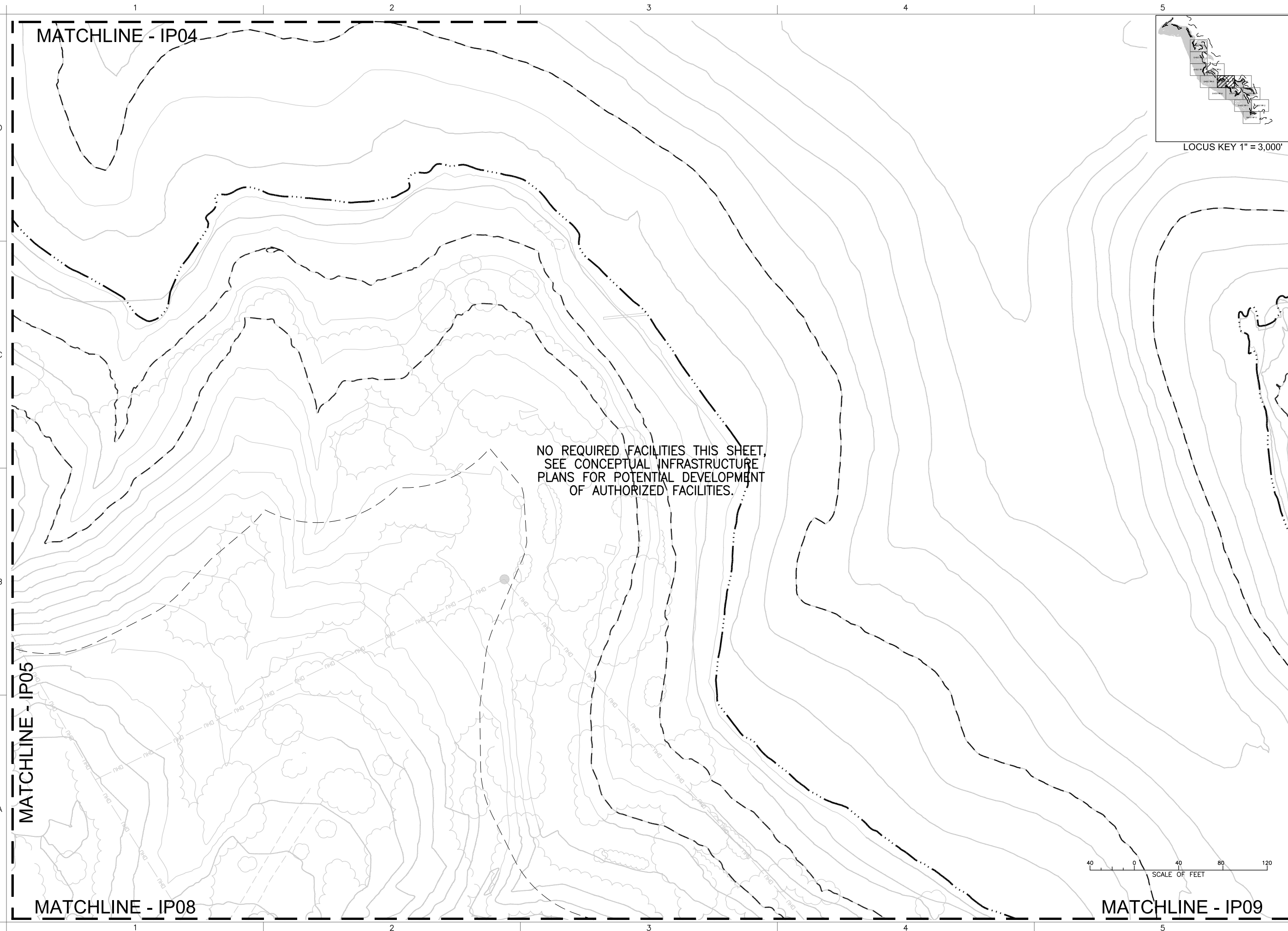
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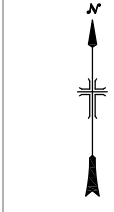
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RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE

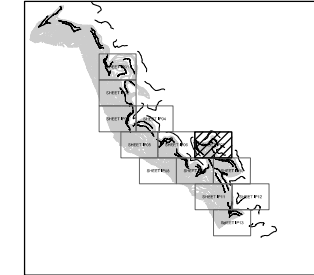
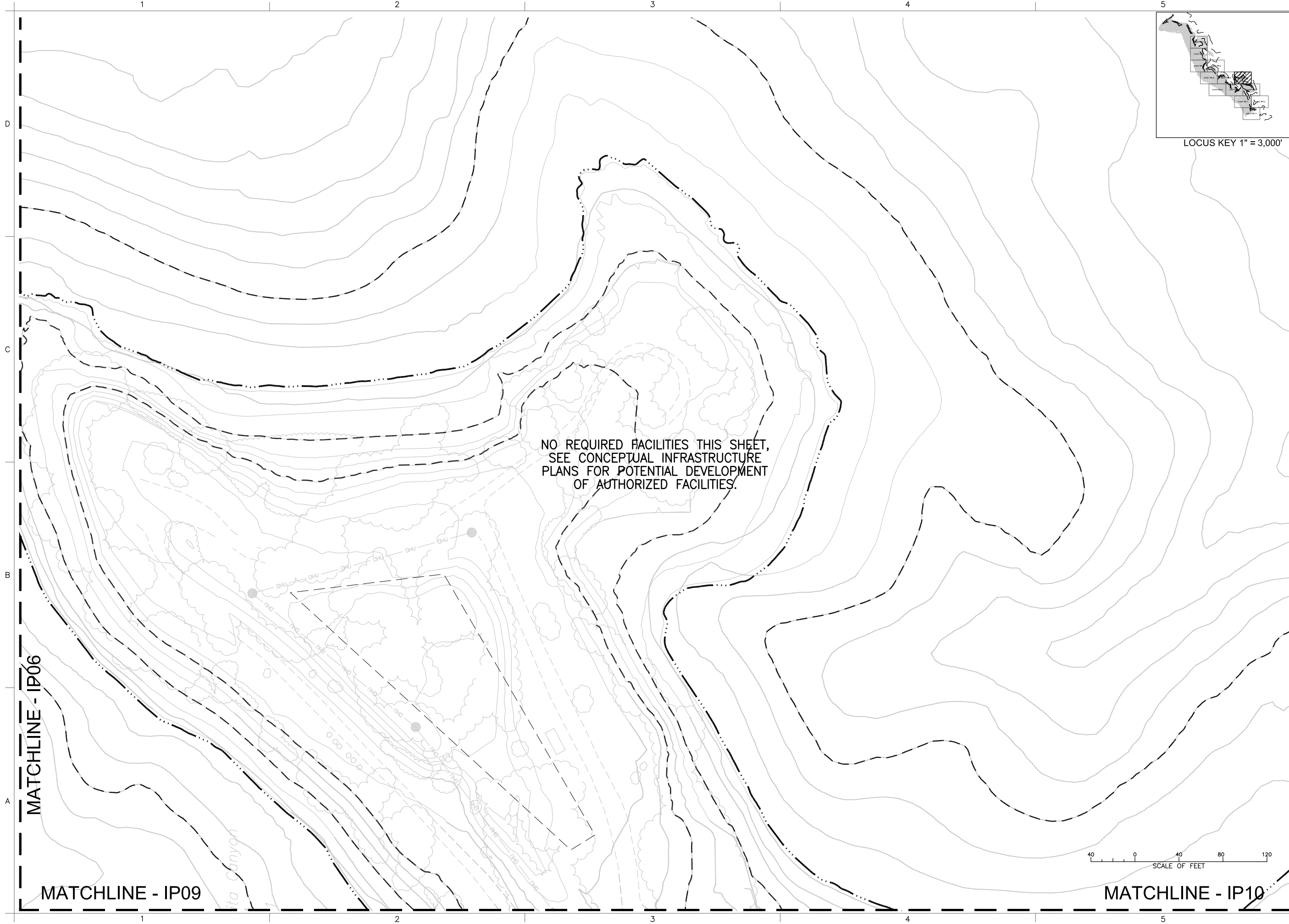
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN VI**

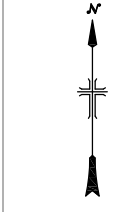
LB-MSRA-IP06
SHEET X OF X

XXXX-MM-DD
STA. CDM SMITH
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ACCEPTED:
NAME, PROF. ABBR

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LOCUS KEY 1" = 3,000'



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RECREATION AREA
DEVELOPMENT PLANS 60%

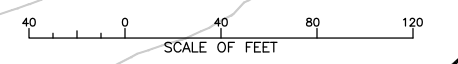
SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

| | | | |
|-------------------------|--|------------|--|
| DRAWN | | CONTRACTOR | |
| ACCEPTED | | NAME | |
| TITLE | | TITLE | |
| STATION NAME (CITY, ST) | | YYYY-MM-DD | |

**MONTICELLO SHORES
INFRASTRUCTURE PLAN VII**

LB-MSRA-IP07
SHEET X OF X



MATCHLINE - IP10

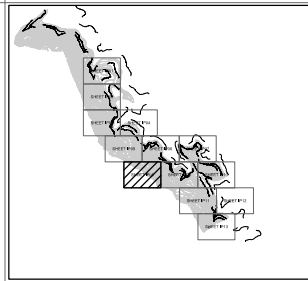
MATCHLINE - IP09

MATCHLINE - IP06

ita Canyon

NO REQUIRED FACILITIES THIS SHEET,
SEE CONCEPTUAL INFRASTRUCTURE
PLANS FOR POTENTIAL DEVELOPMENT
OF AUTHORIZED FACILITIES.

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LOCUS KEY 1" = 3,000'

MATCHLINE - IP05

MATCHLINE - IP06

MATCHLINE - IP09

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Managing Water in the West



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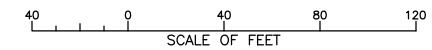
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
CENTRAL CALIFORNIA AREA OFFICE
LAKE BERRESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR
DRAWN
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN VIII**

LB-MSRA-IP08
SHEET X OF X



1 2 3 4 5

D

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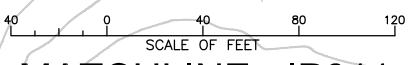
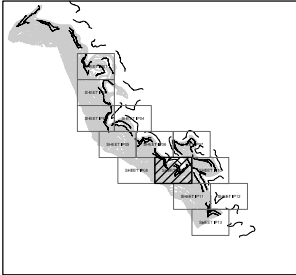
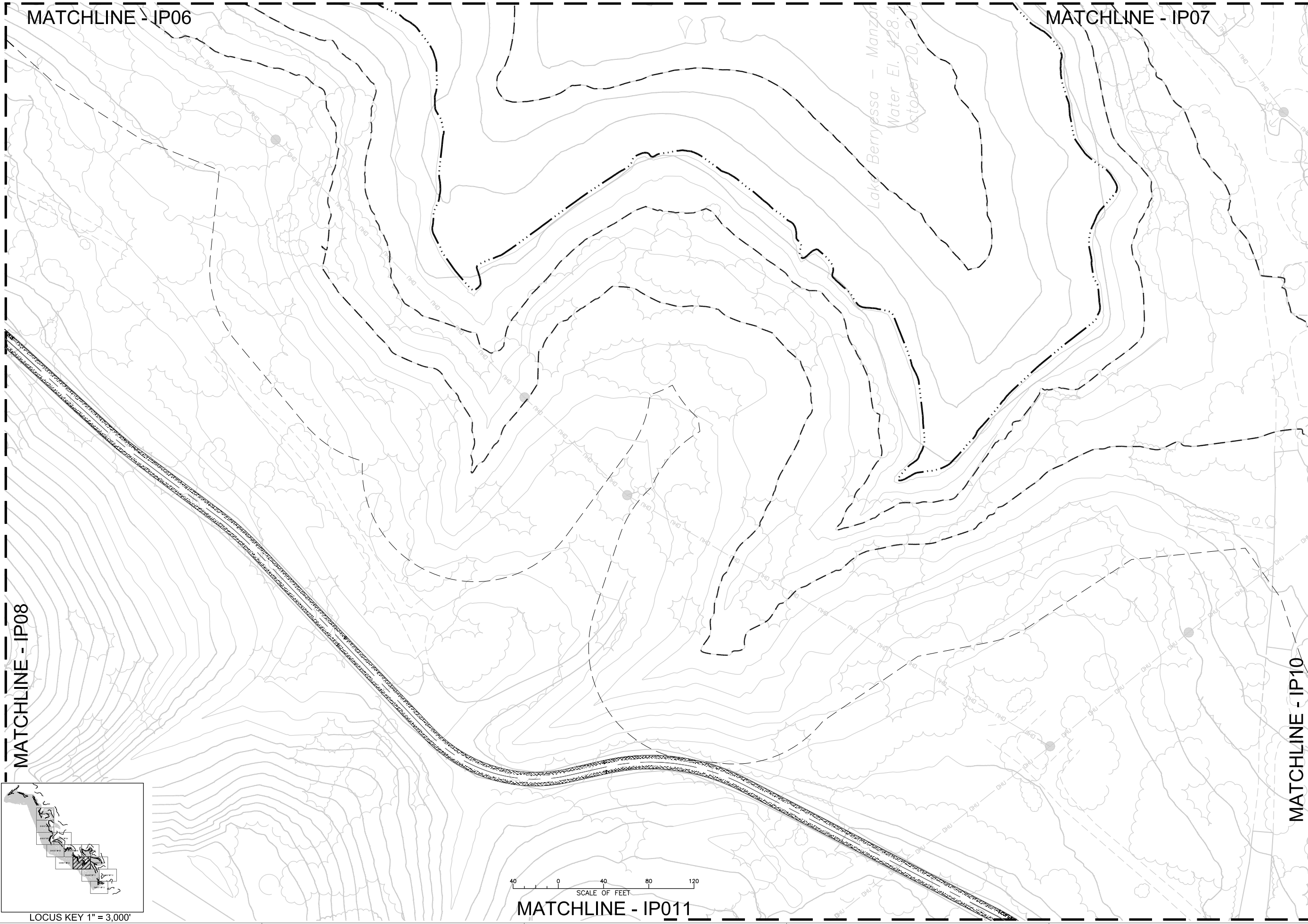
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B

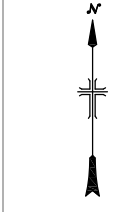
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YYYY-MM-DD
STA. CDM SMITH
108998.2330.019
ACCEPTED:
NAME, PROF. ABR

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LAKE BERRYESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%
SHEET X OF X

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR

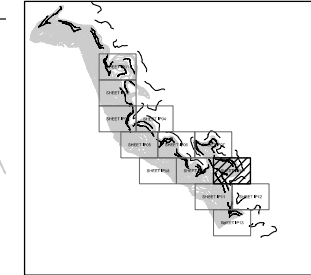
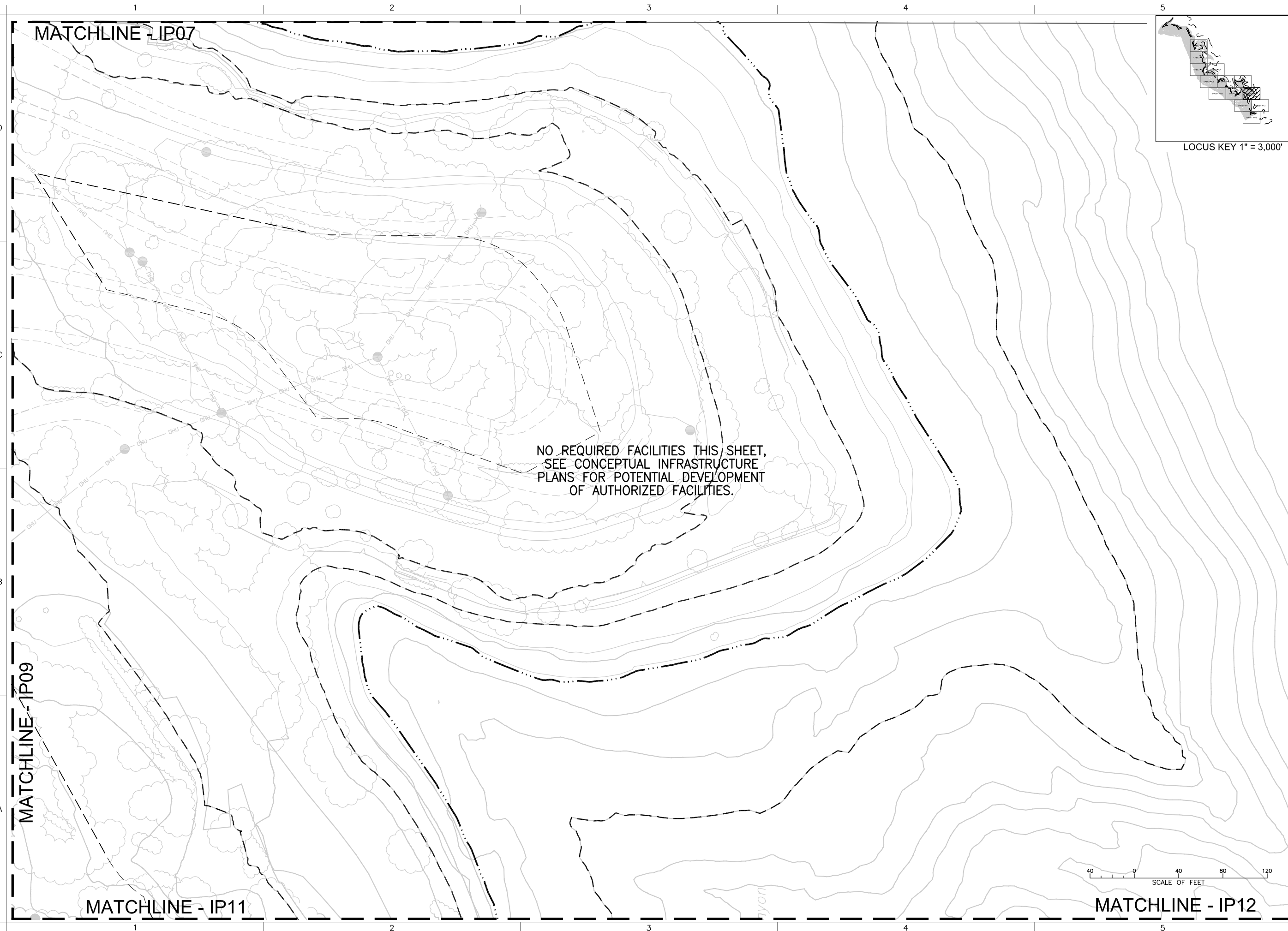
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NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN IX**

LB-MSRA-IP09
SHEET X OF X

YYYY-MM-DD
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NAME, PROF. ABBR
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108998.2330.019

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DEVELOPMENT PLANS 60%

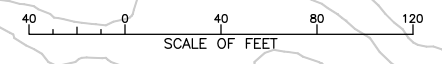
SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

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DRAWN
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN X**

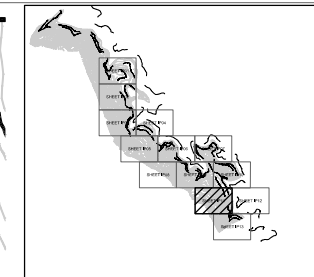
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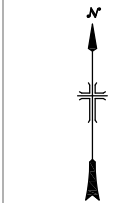
MATCHLINE - IP09

MATCHLINE - IP10



LOCUS KEY 1" = 3,000'

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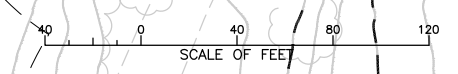
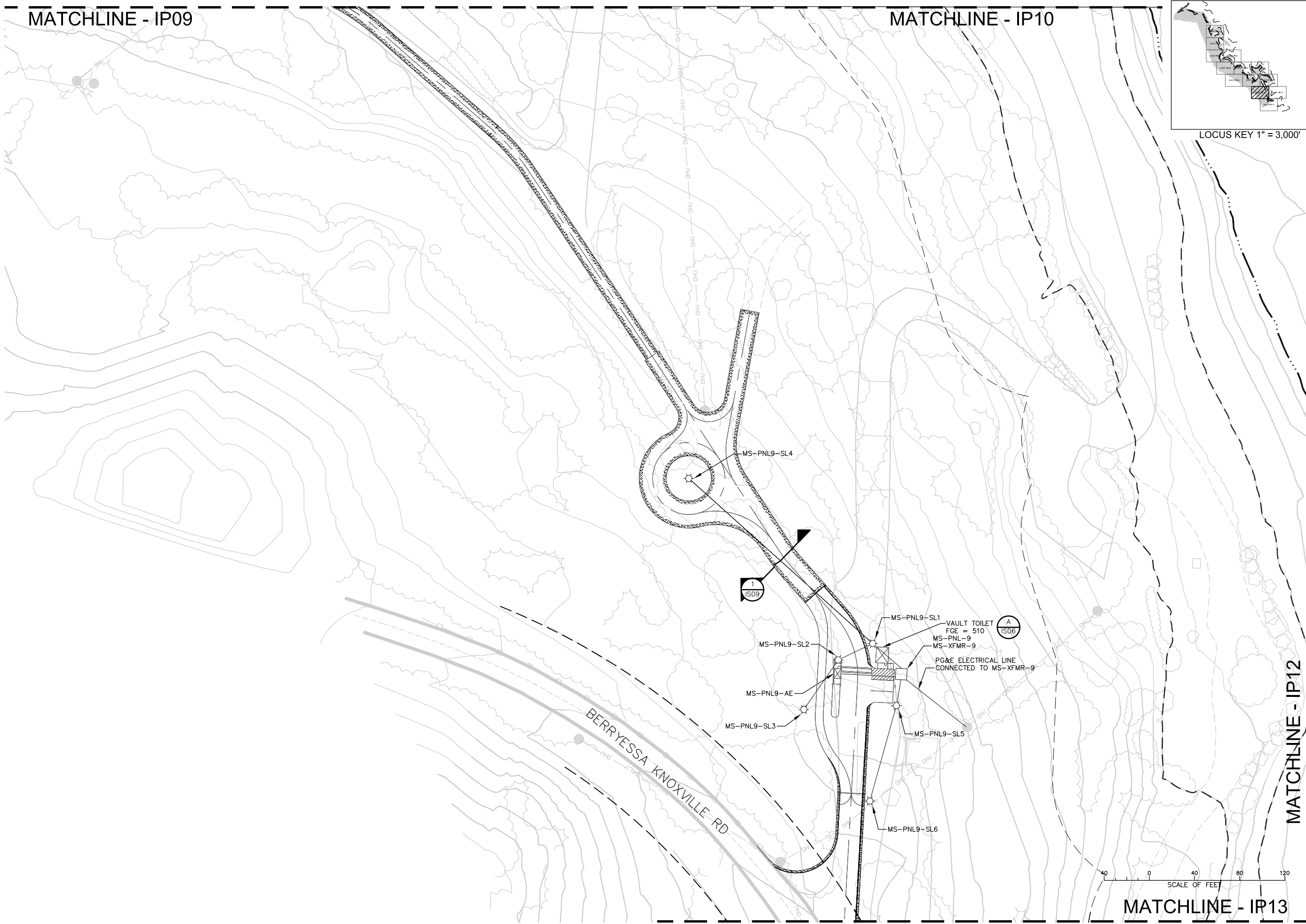
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SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
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TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
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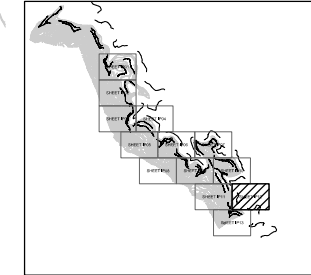
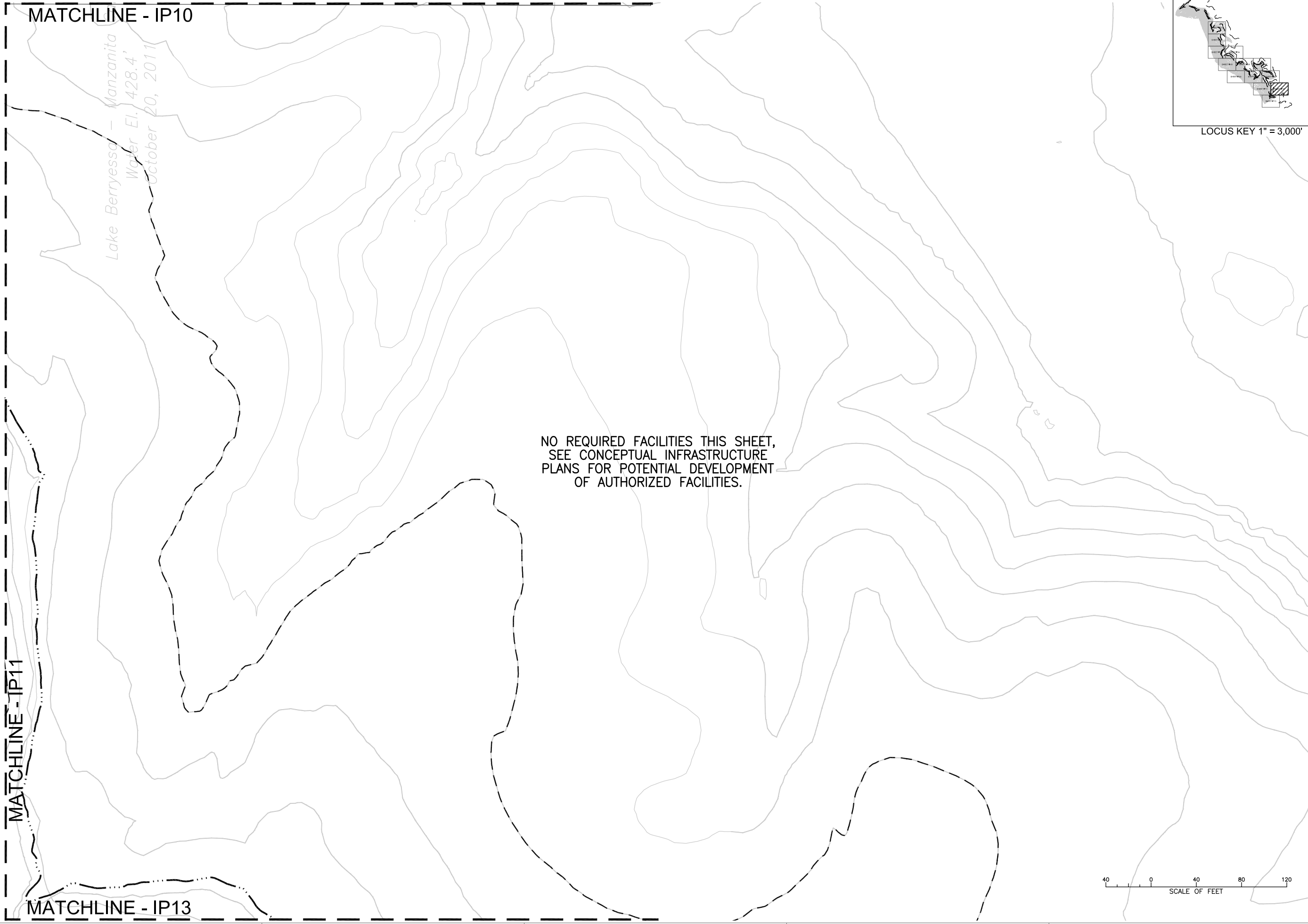
**MONTICELLO SHORES
INFRASTRUCTURE PLAN XI**

LB-MSRA-IP11
SHEET X OF X

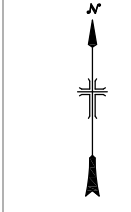


MATCHLINE - IP13

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SURVEY NOTES

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HORIZONTAL DATUM: NAD 1983
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TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
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CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
INFRASTRUCTURE PLAN XII**

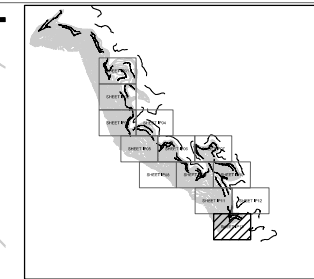
LB-MSRA-IP12
SHEET X OF X

Yyyy-MM-DD
NAME, PROF. ABBR
STA, CDM SMITH
100998.230.019

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MATCHLINE - IP11

MATCHLINE - IP12



LOCUS KEY 1" = 3,000'

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NO REQUIRED FACILITIES THIS SHEET,
SEE CONCEPTUAL INFRASTRUCTURE
PLANS FOR POTENTIAL DEVELOPMENT
OF AUTHORIZED FACILITIES.

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SURVEY NOTES

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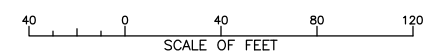
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NAME
TITLE

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**MONTICELLO SHORES
INFRASTRUCTURE PLAN XIII**

LB-MSRA-IP13
SHEET X OF X



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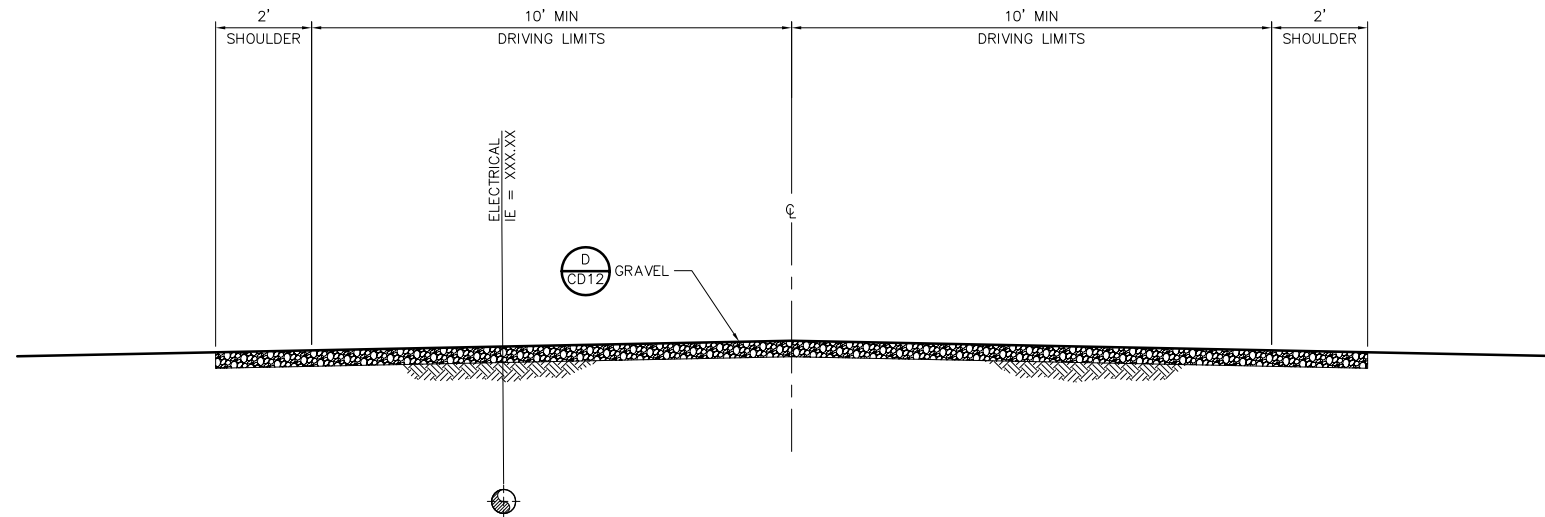
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2

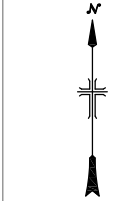
3

4

5



SECTION 1
1" = 2' IP11



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SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
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**MONTICELLO SHORES
SEWER DETAILS IX**

LB-MSRA-IS09
SHEET X OF X

YYYY-MM-DD
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YYYY-MM-DD
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1

2

3

4

5

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A. GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE (IBC).
- ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH MECHANICAL & ELECTRICAL DRAWINGS, SHOP DRAWINGS AND THE PROJECT SPECIFICATIONS. COORDINATE REGLETS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS EMBEDDED OR PASSED THROUGH CONCRETE STRUCTURES WITH ALL OTHER PROJECT DOCUMENTS. PENETRATIONS THROUGH WALLS OR SLABS LESS THAN 12" IN DIAMETER MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. REFER TO THE RELEVANT DRAWINGS OR SPECIFICATIONS FOR SIZES AND LOCATIONS.
- LOCATE CONDUIT IN MIDDLE THIRD OF SLAB.
- NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED SIZES.
- USE PERTINENT STANDARD DETAILS SHOWN, EVEN THOUGH THEY MAY NOT BE CALLED OUT AT LOCATIONS WHERE THEY APPLY.
- INSTALL ALL SPECIFIED PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS NOTED OTHERWISE.

B. DESIGN LOADS

- LATERAL:
 - SEISMIC:
 - Ss = 2.26
 - S1 = 0.91
 - SITE CLASS: D
 - Fa = 1.0
 - Fv = 1.5
 - Sps = 1.51
 - S2 = 0.91
 - RISK CATEGORY: I
 - le = 1.0
 - lp = 1.0 UNLESS OTHERWISE NOTED
 - SEISMIC DESIGN CATEGORY: D
 - WIND:
 - BASIC WIND SPEED: 100 mph
 - SURFACE ROUGHNESS: D
 - EXPOSURE: D
 - RISK CATEGORY: I

C. CAST-IN-PLACE CONCRETE NOTES

- REINFORCED CONCRETE SHALL CONFORM TO ACI 318-11.
- MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, UNO:
 - CAST-IN-PLACE STRUCTURAL CONCRETE (CLASS D): f'c = 4000 psi
 - SIDEWALKS, PAVEMENT, CONCRETE ENCASUREMENT (CLASS B): f'c = 3000 psi
- REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATION A615, GRADE 60. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REINFORCING STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CRSI MANUAL OF STANDARD PRACTICE.
- REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CLEAR CONCRETE COVER, UNO:

| CONDITION | COVER |
|---|--------|
| UNFORMED SURFACES IN CONTACT WITH EARTH | 3" |
| FORMED SURFACES EXPOSED TO EARTH, WATER, OR WEATHER | 2" |
| FORMED SURFACES NOT EXPOSED TO EARTH, WATER OR WEATHER: | 1 1/2" |
- ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE 3/4-IN CHAMFER, UNO.
- WRITTEN SPACING AND LOCATION OF REINFORCING SHALL TAKE PRECEDENCE OVER DEPICTED SPACING AND LOCATION.

D. CONCRETE ANCHOR AND DOWEL NOTES

- CAST-IN ANCHORS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554, GR 36, UNO.
- POST-INSTALLED ANCHORS SHALL BE 36 ksi MIN GALVANIZED CARBON STEEL. ADHESIVE DOWELS SHALL BE 60 ksi REINFORCING STEEL CONFORMING TO ASTM A615. POST-INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPROPRIATE ICC OR IAPMO EVALUATION SERVICE REPORT. ONLY ANCHORS OR ADHESIVES WITH CURRENT ICC OR IAPMO EVALUATION SERVICE REPORTS FOR USE IN CRACKED CONCRETE SHALL BE USED. SEE SPEC SECTION 05500 FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL LOCATE EXISTING CONCRETE REINFORCEMENT USING NON-DESTRUCTIVE METHODS PRIOR TO DRILLING HOLES FOR POST-INSTALLED ANCHORS OR DOWELS. ADJUST SPACING OF ANCHORS TO MISS EXISTING REINFORCING. THE TOTAL NUMBER OF ANCHORS OR DOWELS PROVIDED SHALL BE EQUAL TO WHAT IS SHOWN ON THE DRAWINGS.
- EXPANSION OR UNDERCUT ANCHORS SHALL NOT BE USED FOR VIBRATORY LOADS, UNO.

E. CONCRETE JOINT NOTES

- INTENTIONALLY ROUGHEN THE SURFACES OF CONSTRUCTION JOINTS AND WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE TO A CONCRETE SURFACE PROFILE (CSP) 9 PER ICRI GUIDELINE 03732 WITH 1/4" MINIMUM AMPLITUDE. THIS ROUGHENED SURFACE MAY BE ACCOMPLISHED BY RAKING THE PLASTIC CONCRETE OR BY BUSHHAMMERING OR CHISELING HARDENED CONCRETE SURFACES. THOROUGHLY CLEAN JOINT SURFACES OF LOOSE OR WEAKENED MATERIALS BY WATERBLASTING OR SANDBLASTING. SATURATE SURFACE WITH WATER 12 HOURS BEFORE AND AGAIN IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.

F. DEFERRED SUBMITTALS

- THE FOLLOWING PORTIONS OF THE PROJECT ARE DEFERRED SUBMITTAL ITEMS AND HAVE NOT BEEN DESIGNED BY THE ENGINEER OF RECORD:
 - EQUIPMENT ANCHORAGE
 - PIPE SUPPORTS NOT DETAILED ON DRAWINGS
 - BELOW GRADE VAULTS
 - FISH CLEANING STATION SHELTER
 - VAULT TOILET STRUCTURES
- CALCULATIONS AND SHOP DRAWINGS FOR DEFERRED SUBMITTAL ITEMS SHALL BE PREPARED AND SEALED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- CALCULATIONS AND SHOP DRAWINGS FOR EQUIPMENT ANCHORAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW DURING THE CONSTRUCTION PHASE OF THE PROJECT.
- DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE ENGINEER OF RECORD HAS REVIEWED THE SUBMITTAL DOCUMENTS AND INDICATED THAT THEY HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE STRUCTURE.

STRUCTURAL ABBREVIATIONS:

| | | | | | |
|-----------|--|---------|-------------------------------|---------|--------------------------|
| Ø | DIAMETER | f'c | CONCRETE COMPRESSIVE STRENGTH | PJF | PREMOLDED JOINT FILLER |
| AB | ANCHOR BOLT | fy | REINFORCEMENT YIELD STRENGTH | PL | PLATE |
| ADDL | ADDITIONAL | FDN | FOUNDATION | PFAB | PRE-FABRICATED |
| AL | ALUMINUM | FF | FINISHED FLOOR | PT | POINT |
| ALT | ALTERNATE(ING) | FG | FINISHED GRADE | PVC | POLY VINYL CHLORIDE |
| APPROX | APPROXIMATE(LY) | FIG | FIGURE | | |
| ARND | AROUND | FIN | FINISH (ED) | RAD | RADIUS |
| ASTM | AMERICAN SOCIETY FOR TESTING & MATERIALS | FL | FLOOR | REF | REFERENCE / REFER |
| | | FS | FAR SIDE | REIN | REINFORCE (D, ING) |
| | | FTG | FOOTING | REQD | REQUIRED |
| | | | | REV | REVISION |
| BGS | BELOW GROUND SURFACE | GA | GAGE | RO | ROUGH OPENING |
| BLDG | BUILDING | GALV | GALVANIZED | RT | RIGHT |
| BLK | BLOCK(ING) | GALVS | GALVANIZED STEEL | | |
| B.O. | BOTTOM OF | GRATING | GRATING | SC | SLIP CRITICAL |
| BOS | BOTTOM OF STEEL | | | SEC(T) | SECTION |
| BOT | BOTTOM | HDR | HEADER | SHT | SHEET |
| BTWN | BETWEEN | H | HEIGHT | SIM | SIMILAR |
| | | HOR(IZ) | HORIZONTAL | SL | SLOPE |
| CJ | CONSTRUCTION JOINT | HP | HIGH POINT | SP | SPACE(S, ED) |
| CJP | COMPLETE JOINT PENETRATION | HSB | HIGH STRENGTH BOLTS | SPCG | SPACING |
| CL, ☉ | CENTERLINE | | | SPEC | SPECIFICATION, SPECIFIED |
| CLR | CLEAR | ICC | INTERNATIONAL CODE COUNCIL | SQ | SQUARE |
| COL | COLUMN | ID | INSIDE DIAMETER | SST | STAINLESS STEEL |
| CONC | CONCRETE | IE | INVERT ELEVATION | STD | STANDARD |
| CONN | CONNECTION | I.F. | INSIDE FACE | STL | STEEL |
| CONST | CONSTRUCTION | INFO | INFORMATION | STRUC | STRUCTURE(S, URAL) |
| CONT | CONTINUOUS | INT | INTERIOR | SYM | SYMMETRICAL |
| CSP | CONCRETE SURFACE PROFILE | INV | INVERT | | |
| CTJ | CONTROL JOINT | | | t | THICK(NESS) |
| CTR | CENTER (ED) | ld | DEVELOPMENT LENGTH | T&B | TOP AND BOTTOM |
| | | LG | LONG | TBD | TO BE DETERMINED |
| db | BAR DIAMETER | LLH | LONG LEG HORIZONTAL | THK | THICK(NESS) |
| D | DEEP / DEPTH | LLV | LONG LEG VERTICAL | T.O. | TOP OF |
| DEMO | DEMOLITION | LNTL | LINTEL | TOC | TOP OF CONCRETE |
| DET | DETAIL | LONG. | LONGITUDINAL | TOS | TOP OF STEEL |
| DIA | DIAMETER | LP | LOW POINT | T.O.W. | TOP OF WALL |
| DIAG | DIAGONAL | LT | LEFT | TRNSV | TRANSVERSE |
| DIM | DIMENSION | | | TYP | TYPICAL |
| DL | DEAD LOAD | MATL | MATERIAL | | |
| DN | DOWN | MAX | MAXIMUM | UNO | UNLESS NOTED OTHERWISE |
| DO. | DITTO | MECH | MECHANICAL | VERT(S) | VERTICAL |
| DWG(S) | DRAWING(S) | MFR | MANUFACTURER | | |
| DWL(S) | DOWEL(S) | MIN | MINIMUM | W | WIDE |
| | | MTL | METAL | W/ | WITH |
| EA | EACH | (N) | NEW | W/O | WITHOUT |
| EB | EXPANSION BOLT | NOM | NOMINAL | WD | WIDTH / WOOD |
| ECC | ECCENTRIC | NS | NEAR SIDE | WP | WORKING POINT |
| EF | EACH FACE | NSG | NON-SHRINK GROUT | WT | WEIGHT |
| EL | ELEVATION | NTS | NOT TO SCALE | WWF | WELDED WIRE FABRIC |
| EMBED | EMBEDMENT | | | | |
| EQ | EQUAL (LY) | O/E | OR EQUAL | | |
| EQPT | EQUIPMENT | OC | ON CENTER | | |
| EQUIV | EQUIVALENT | OD | OUTSIDE DIAMETER | | |
| ES | EACH SIDE | O.F | OUTSIDE FACE | | |
| ETC | ETCETERA | OPNG(S) | OPENING(S) | | |
| EW | EACH WAY | OPP | OPPOSITE | | |
| EXP | EXPANSION | OPP HD | OPPOSITE HAND | | |
| EXST, (E) | EXISTING | OPT | OPTION (AL) | | |
| EXT | EXTERIOR | | | | |

ABBREVIATION NOTES:

- ABBREVIATIONS AND DESIGNATIONS FOR STEEL MEMBERS MAY BE FOUND IN THE CURRENT MANUAL OF STEEL CONSTRUCTION BY AISC.
- ABBREVIATIONS AND DESIGNATIONS FOR ALUMINUM MEMBERS MAY BE FOUND IN THE CURRENT MANUAL OF ALUMINUM STANDARDS AND DATA BY THE ALUMINUM ASSOCIATION, INC.
- WELDING SYMBOLS AND ABBREVIATIONS MAY BE FOUND IN AWS 1.1 & 1.4.
- ABBREVIATIONS LISTED ARE FOR USE WITH STRUCTURAL DRAWINGS ONLY. SOME ABBREVIATIONS LISTED MAY NOT BE USED ON THE PLANS.

LEGEND:

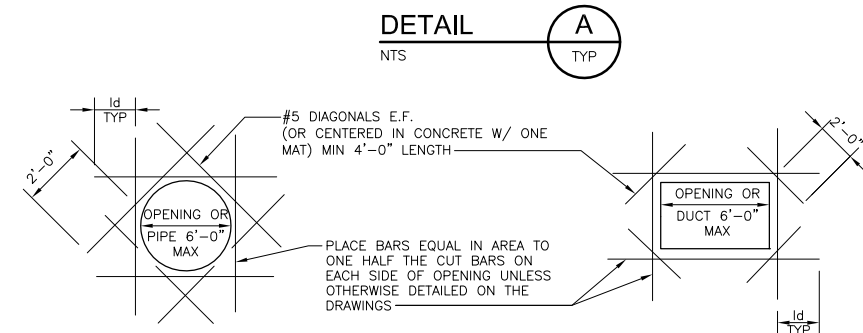
| | | | |
|--------------------------|--|----------------------------|--|
| CONCRETE FILL / CONCRETE | | UNDISTURBED EARTH | |
| GROUT | | STRUCTURAL FILL / BACKFILL | |

| REINF SIZE | ld (INCHES) FOR A STRAIGHT BAR | | LAP SPLICE LENGTH | |
|------------|--------------------------------|------------|-------------------|------------|
| | TOP BAR | OTHER BARS | TOP BAR | OTHER BARS |
| # 3 | 20 | 14 | 25 | 18 |
| # 4 | 26 | 19 | 34 | 24 |
| # 5 | 32 | 23 | 42 | 30 |
| # 6 | 39 | 28 | 50 | 36 |
| # 7 | 45 | 32 | 58 | 42 |
| # 8 | 52 | 37 | 62 | 48 |
| # 9 | 58 | 41 | 75 | 54 |
| # 10 | 64 | 46 | 83 | 60 |

NOTES:

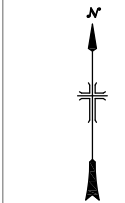
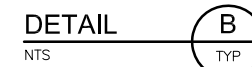
- ld = DEVELOPMENT LENGTH, db = BAR DIAMETER
- TOP BAR IS ANY HORIZONTAL BAR IN WALLS AND SLABS WITH MORE THAN 12" CONCRETE CAST IN ONE LIFT BENEATH IT. HORIZONTAL BARS IN WALLS SHALL BE CONSIDERED AS TOP BARS. VERTICAL BARS IN WALLS MAY BE CONSIDERED AS OTHER BARS.
- SPLICES IN HORIZONTAL BARS SHALL BE STAGGERED.
- WHEN LAPPING DIFFERENT SIZE BARS USE LENGTH BASED ON LARGER BAR DIAMETER, UNO.

DEVELOPMENT LENGTH AND LAP SPLICE LENGTH (UNO)



- ld = DEVELOPMENT LENGTH: PROVIDE STD HOOK IF FULL DEVELOPMENT LENGTH IS NOT POSSIBLE.
- REINFORCING STEEL IS TO BE CARRIED ACROSS ALL CONSTRUCTION JOINTS.
- DETAIL IS TYP FOR ALL OPENINGS GREATER THAN 10 INCHES AND LESS THAN OR EQUAL TO 6 FEET IN THE LARGER DIMENSION IN CONCRETE WALLS AND SLABS UNLESS OTHERWISE DETAILED ON THE DRAWINGS.
- EXTRA BARS ARE NOT REQUIRED AT AN OPENING EDGE PARALLEL TO AND WITHIN 6 INCHES OF A WALL OR BEAM.

EXTRA REINFORCEMENT AT OPENINGS



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LANE BERRERSSA (CALIFORNIA)

RECREATION AREA

DEVELOPMENT PLANS 60%

DETAILS

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2 - U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.

Topography by American Photogrammetry Services
Compiled from photography: 201163
Date of photography: October 20, 2011

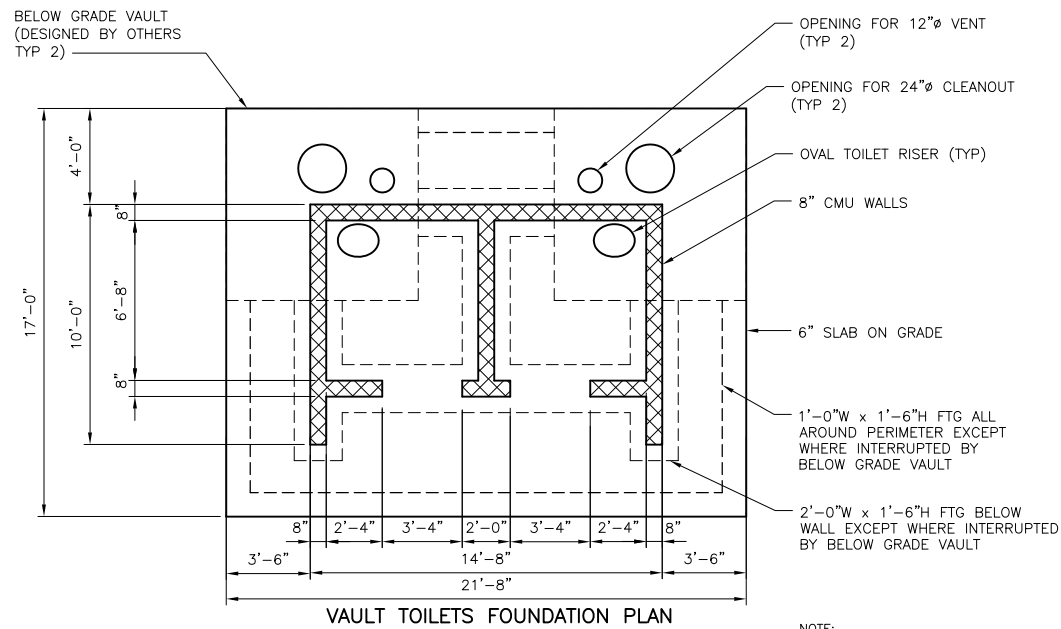
CONTRACTOR

ACCEPTED NAME TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
STRUC. GENERAL NOTES,
ABBREVIATIONS, & DETAILS**

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VAULT TOILETS FOUNDATION PLAN

DETAIL
 1/4" = 1'-0"
 A

NOTE:

1. WHERE THE BOTTOM OF BELOW GRADE VAULTS ARE AT ELEVATION 455.00' OR LOWER THEY SHALL BE DESIGNED TO RESIST BUOYANT FORCES ASSUMING WATER AT ELEVATION 455.00'. USE LOAD COMBINATIONS IN ACCORDANCE WITH ASCE 7-10 SECTION 2.4.



STATION NAME (CITY, ST) STA. CDM SMITH
 YYY-MM-DD
 NAME, PROF. ABRR 500906230.019
 ACCEPTED:

ALWAYS THINK SAFETY

U.S. DEPARTMENT OF THE INTERIOR
 BUREAU OF RECLAMATION
 CENTRAL CALIFORNIA AREA OFFICE
 LAKE BERRESSA (CALIFORNIA)
RECREATION AREA
 DEVELOPMENT PLANS 60%
 DETAILS

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
 ZONE 2 - U.S. SURVEY FEET
 HORIZONTAL DATUM: NAD 1983
 VERTICAL DATUM: NAVD 1988
 TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
 BATHYMETRIC CONTOUR INTERVAL: 10 FT.
 Topography by American Photomapping Services
 Compiled from photography: 201163
 Date of photography: October 20, 2011

CONTRACTOR
 DRAWN

ACCEPTED
 NAME
 TITLE
 STATION NAME (CITY, ST) YYY-MM-DD

**MONTICELLO SHORES
 STRUCTURAL PLANS,
 SECTIONS, AND DETAILS**

1

2

3

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5

PIPE CROSSING NOTES:

1. WATER AND SEWER MAINS SHALL BE SEPARATED IN ACCORDANCE WITH STATE OF CALIFORNIA REQUIREMENTS IN ORDER TO PROTECT PUBLIC WATER SYSTEMS FROM POSSIBLE CONTAMINATION. ALL DISTANCES ARE MEASURED PERPENDICULARLY FROM THE OUTSIDE OF THE SEWER MAIN TO THE OUTSIDE OF THE WATER MAIN. REFER TO DETAILS D, E, & F ON SHEET IW03 FOR GRAPHICAL REPRESENTATION. SEPARATION REQUIREMENTS ARE AS FOLLOWS:
 - A. A WATER MAIN SHALL NOT BE PLACED:
 - I. WITHIN 10 FEET, HORIZONTAL DISTANCE, AND LESS THAN 2 FEET VERTICAL DISTANCE, ABOVE THE TOP OF A SEWER MAIN UNLESS EXTRA PROTECTION IS PROVIDED. EXTRA PROTECTION SHALL CONSIST OF CONSTRUCTING THE SEWER MAIN WITH MECHANICAL JOINT DUCTILE IRON PIPE OR WITH SLIP-JOINT DUCTILE IRON PIPE IF JOINT RESTRAINT IS PROVIDED. ALTERNATE EXTRA PROTECTION SHALL CONSIST OF ENCASING BOTH THE WATER AND SEWER MAINS IN AT LEAST 6 INCHES OF CONCRETE FOR AT LEAST 10 FEET BEYOND THE AREA COVERED BY THIS SUBSECTION.
 - B. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SEWER MANHOLE. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND MANHOLES SHALL BE 8 FEET, MEASURED FROM THE CENTER OF THE MANHOLE.
 - C. THE SEPARATION REQUIREMENTS DO NOT APPLY TO BUILDING, PLUMBING, OR INDIVIDUAL HOUSE SERVICE CONNECTIONS.
2. ALL BURIED WATER PIPING TO HAVE 3 FEET MINIMUM COVER, EXCEPT WHERE NOTED.
3. COORDINATE WITH USBR FOR ASSISTANCE IN LOCATING EXISTING SITE UTILITIES.
4. EXISTING UTILITIES SHALL BE FIELD LOCATED, PROTECTED, AND SUPPORTED AS REQUIRED DURING PIPELINE OR OTHER UNDERGROUND CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE CONTRACTING OFFICER OR UTILITY OWNER. WHEN THE PIPELINE CROSSES BENEATH EXISTING UTILITIES, SPECIFIED PIPELINE EMBEDMENT MATERIAL SHALL EXTEND FROM BENEATH THE NEW PIPELINE TO AN ELEVATION OF 6" ABOVE THE CROSSED UTILITY.
5. REPAIR OR REPLACEMENT WORK ON EXISTING UTILITIES, INCLUDING OVERHEAD POWER LINES AND POLES, SHALL BE PERFORMED BY THE UTILITY OWNER. ALL COSTS ASSOCIATED WITH REPAIR, AND/OR REPLACEMENT OF EXISTING UTILITIES DUE TO CONTRACTORS ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL EXISTING UTILITIES MUST REMAIN IN SERVICE DURING AND AFTER CONSTRUCTION OR UNTIL DIRECTED BY THE CONTRACTING OFFICER.
7. ANY KNOWN SEWERS, WATER MAINS, TELEPHONE CONDUITS, ELECTRIC CABLES, AND OTHER UNDERGROUND STRUCTURES ARE SHOWN ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE OR DISCOVERED. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION AND QUANTITIES OF UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR BUT IS NOT GUARANTEED TO BE EITHER CORRECT OR COMPLETE AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATION AS NECESSARY TO VERIFY ITS CORRECTNESS AND COMPLETENESS.

GENERAL UTILITY NOTES:

1. RETURN ALL DISTURBED SURFACE FEATURES TO ITS ORIGINAL CONDITION OR AS CALLED FOR ON THE CONTRACT DOCUMENTS, WHICHEVER IS MORE STRINGENT. ANY DISTURBANCES TO PROPERTY NOT OWNED BY THE USBR SHALL REQUIRE THE CONTRACTOR TO NOTIFY THE CONTRACTING OFFICER AND EACH PROPERTY OWNER A MIN. 72 HOURS IN ADVANCE. ANY IMPACTED PROPERTY SHALL BE RESTORED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION WITHIN AREA.
2. WHEN CONTRACTOR DESIRES ANY CHANGES TO SLOPE OF PIPES CREATING HIGH OR LOW POINTS WITHIN THE PIPELINE, THE CONTRACTING OFFICER MUST BE NOTIFIED.
3. MAKE EXPLORATORY EXCAVATIONS AT ALL LOCATIONS WHERE PROPOSED WORK CROSSES, CONNECTS TO, OR RUNS ADJACENT TO EXISTING UTILITIES. THE EXPLORATORY EXCAVATION SHALL BE MADE SUFFICIENTLY IN ADVANCE OF THE WORK, SO AS NOT TO DELAY CONSTRUCTION. IF THERE IS A CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF THE CONFLICT'S LOCATION, ELEVATION, UTILITY TYPE AND SIZE.
4. RESIDENTIAL AND COMMERCIAL SERVICE CONNECTIONS INCLUDING TELEPHONE, ELECTRICAL, GAS, WATER, SEWER ARE NOT ALWAYS SHOWN. FIELD VERIFY LOCATIONS PRIOR TO NEW WORK.
5. SCHEDULE ALL EXISTING UTILITY LINE SHUTDOWNS WITH CONTRACTING OFFICER.
6. INSTALL TRACER WIRE AND WARNING TAPE ALONG ENTIRE LENGTH OF NEW WATERLINES.
7. ALL PLASTIC PIPE AND FITTINGS MUST BEAR THE SEAL (NSF-PW) OF THE NATIONAL SANITATION FOUNDATION.
8. ALL MATERIALS (CHEMICAL, SEALANTS, GASKETS, PIPE, ETC...) THAT COME INTO CONTACT WITH WATER OR A WATER TREATMENT CHEMICAL SHALL CONFORM TO ANSI/NSF STANDARD 61. CONFORMANCE WILL BE DETERMINED BY PROPER ANSI LABELING OF THE PRODUCT.
9. CONSTRUCTION MATERIALS AND PRODUCTS USED IN THE WATER SYSTEM SHALL BE LEAD FREE.
10. WATER LINES SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C605-94 STANDARD. ON BURIED PIPING, THE AREA AROUND FITTINGS MUST REMAIN EXPOSED, NOT BACKFILLED, IN ORDER TO VISUALLY OBSERVE IF FITTINGS ARE LEAKING DURING TESTING.
11. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL MEET ?. BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED AS CLOSE AS PRACTICABLE TO ALL SERVICE CONNECTIONS.
12. PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES SHALL CONFORM TO THE CURRENT STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION, AMERICAN NATIONAL STANDARDS INSTITUTE, OR FEDERAL GOVERNMENT.
13. ALL NEW, CLEANED, OR REPAIRED ELEMENTS, INCLUDING WATER STORAGE TANKS, WATER LINES, FITTINGS, VALVES, FIRE HYDRANTS, ETC., OF THE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA REQUIREMENTS.
14. ALL HOSE BIBBS SHALL BE PROTECTED AGAINST BACK SIPHONAGE WITH AN ATMOSPHERIC VACUUM BREAKER.
15. ALL FITTINGS AND HYDRANT LATERALS TO BE RESTRAINED.



STA. COM SMITH
105904.2530.019
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YYYY-MM-DD

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BUREAU OF RECLAMATION

CENTRAL CALIFORNIA AREA OFFICE
LANE BERRYESSA (CALIFORNIA)

RECREATION AREA
DEVELOPMENT PLANS 60%

CONTRACTOR
DRAWN

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
WATER DETAILS I**

LB-MSRA-IW01

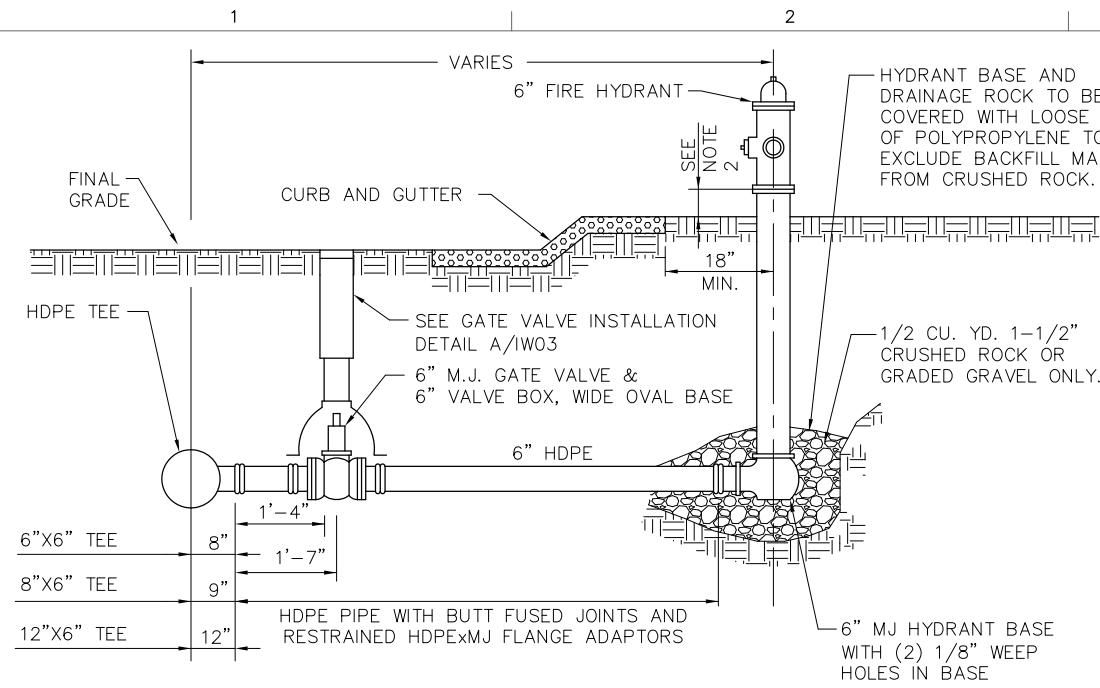
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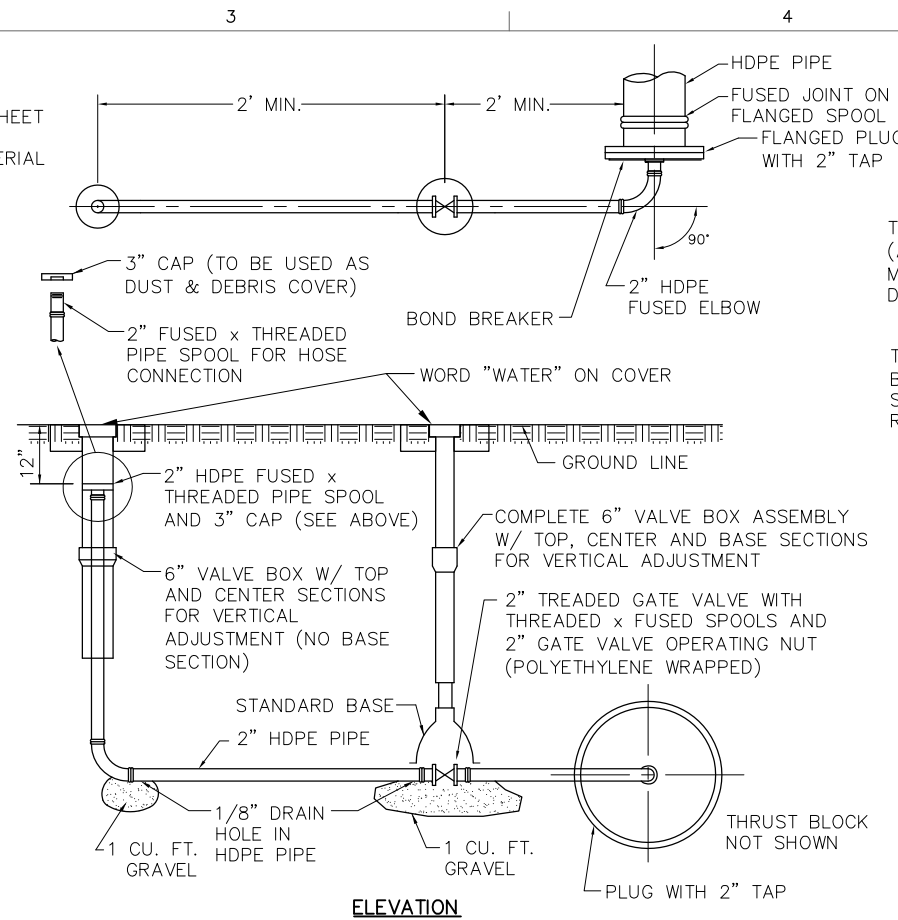
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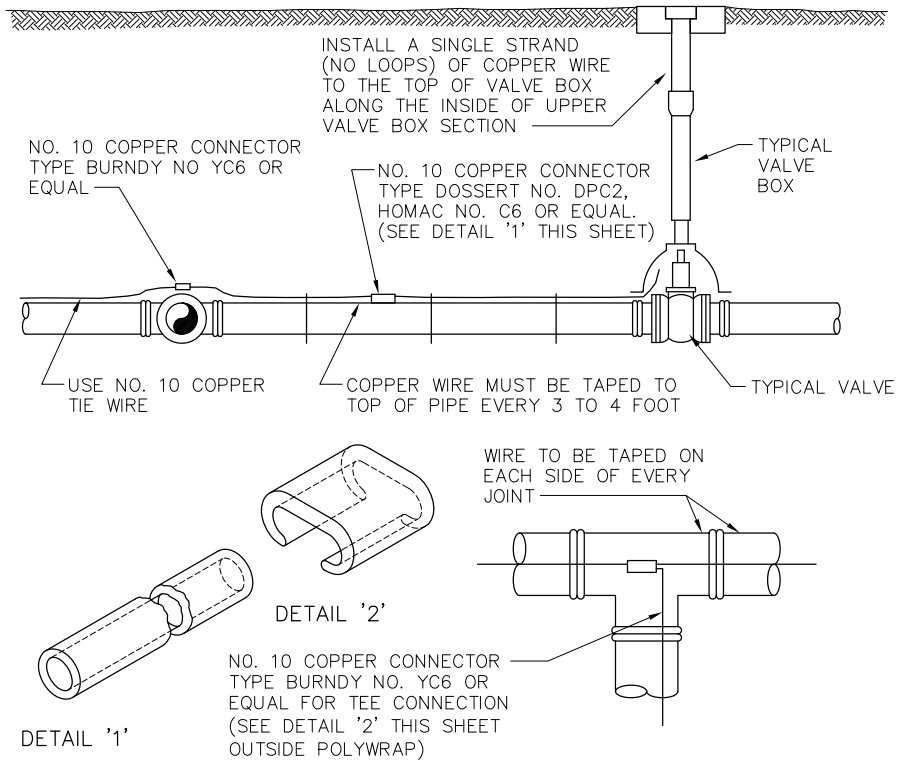
NOTES:

1. FIRE HYDRANT SHALL BE "MUELLER SUPER CENTURION MODEL A-421". PUMPER AND HOSE CONNECTIONS AS STATED IN NOTE 5. "AMERICAN FLOW CONTROL AMERICAN DARLING MARK 73-2" OR AN APPROVED EQUAL IS ALSO ACCEPTABLE.
2. FIRE HYDRANT FLANGE ELEVATION SHALL BE SET A MINIMUM OF 3-INCHES ABOVE THE FINAL GRADE AND A MAXIMUM OF 6-INCHES ABOVE FINAL GRADE.
3. THE FIRE HYDRANT SHALL BE VERTICAL.
4. FIRE HYDRANTS TO BE PAINTED WITH A 10 MIL. THICK SHOP COAT OF YELLOW COLOR, HEAVY DUTY ALKYD ENAMEL PAINT, CONFORMING TO FEDERAL COLOR NO. 13538 SPECIFICATIONS.
5. PUMPER AND HOSE CONNECTIONS SHALL BE PER "NATIONAL STANDARD SPECIFICATION" PUMPER NOZZLE: 4 1/2" - THREADS, 5 3/4" O.D.; 4 THREADS PER INCH; HOSE NOZZLE: 2 1/2" - THREADS, 3 1/16" O.D.; 7 1/2" THREADS PER INCH.

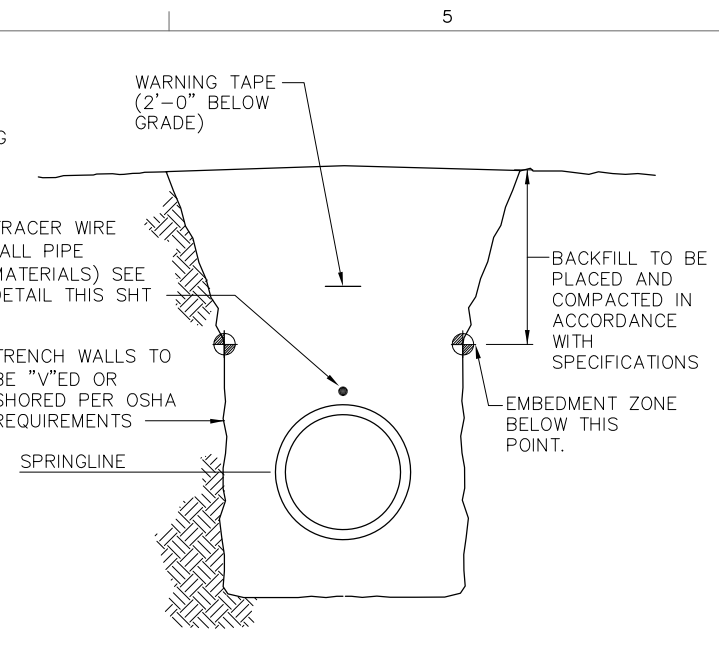
FIRE HYDRANT
NO SCALE



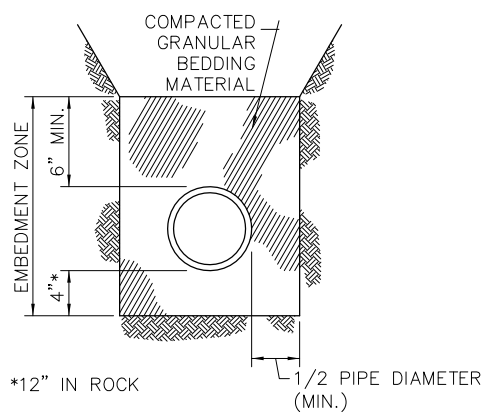
END PLUG BLOW-OFF
NO SCALE



TRACER WIRE
NO SCALE



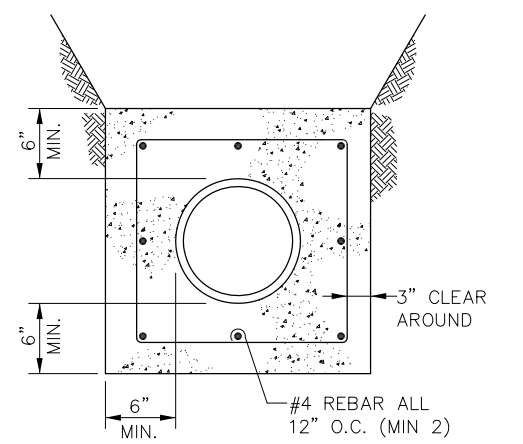
TYPICAL TRENCH
NO SCALE



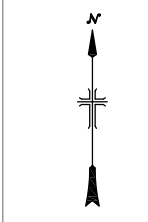
CLASS D TRENCH BACKFILL
NO SCALE



- NOTES:**
1. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.



TYPICAL CONCRETE ENCASEMENT
NO SCALE



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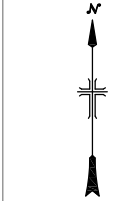
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
CENTRAL CALIFORNIA AREA OFFICE
LANE BERRYSSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

CONTRACTOR _____
DRAWN _____
ACCEPTED NAME TITLE _____
STATION NAME (CITY, ST) _____

MONTICELLO SHORES WATER DETAILS II

LB-MSRA-IW02

STA. COM SMITH
105904.2530.019
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105904.2330.019
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LANE BERRYESSA (CALIFORNIA)

RECREATION AREA
DEVELOPMENT PLANS 60%

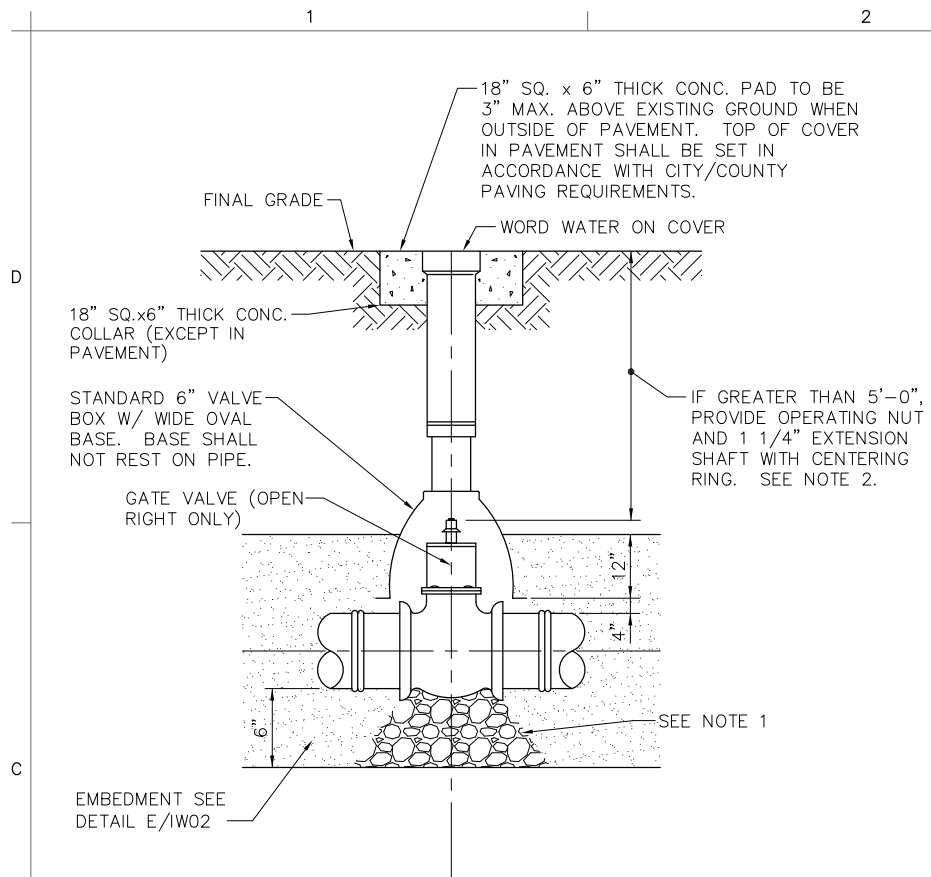
CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

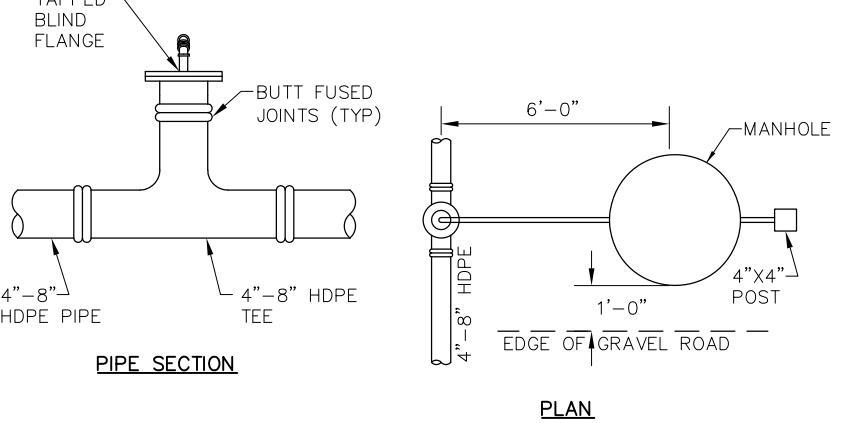
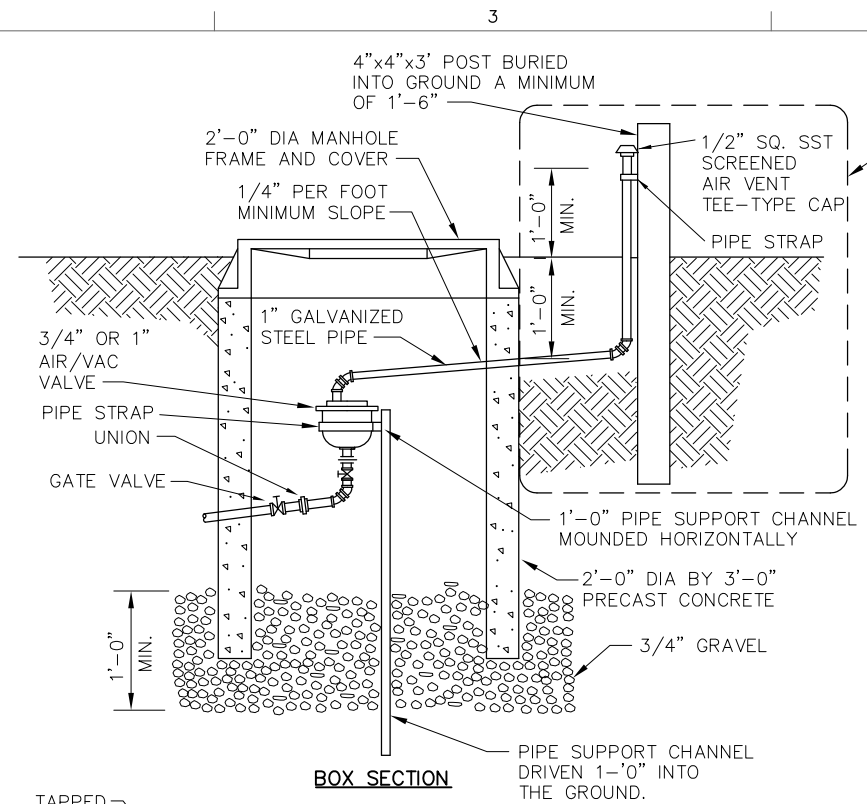
MONTICELLO SHORES
WATER DETAILS III

LB-MSRA-IW03

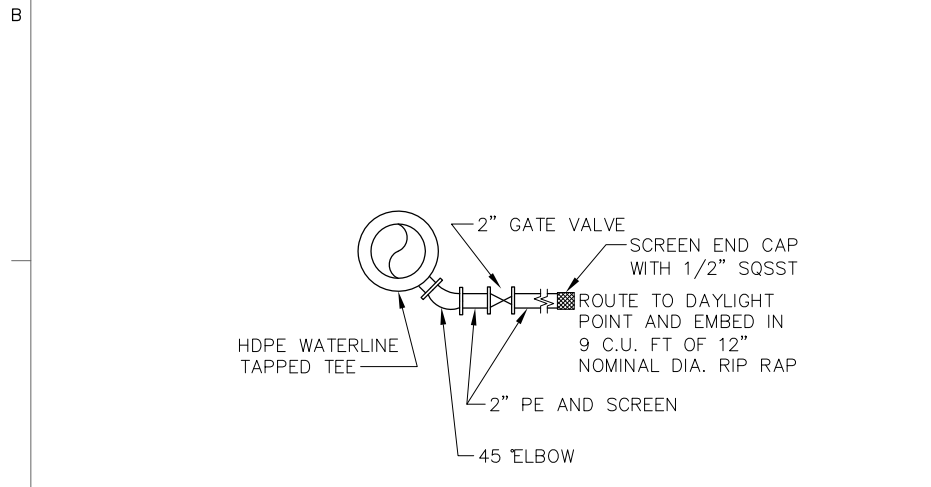


- NOTES:
- CARE SHALL BE TAKEN WHEN INSTALLING VALVES TO ASSURE PROPER SUPPORT OF THE VALVE. 3/4" CRUSHED ROCK SHALL BE INSTALLED UNDER THE VALVE TO PROVIDE PROPER SUPPORT.
 - OPERATING NUTS SHALL NOT BE SET CLOSER THAN THREE (3) FEET TO FINAL GRADE OR DEEPER THEN FIVE (5) FEET FROM FINAL GRADE. OPERATOR EXTENSIONS SHALL BE CONNECTED TO VALVE OPERATOR USING SET SCREW.
 - GATE VALVE SHALL BE POLYETHYLENE WRAPPED.

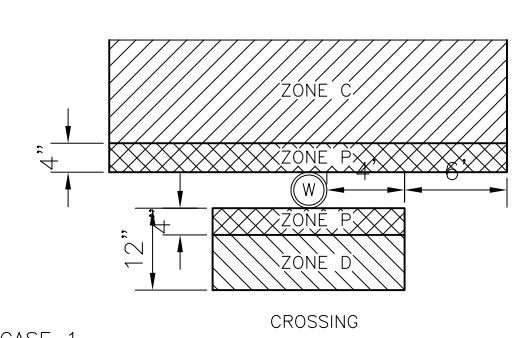
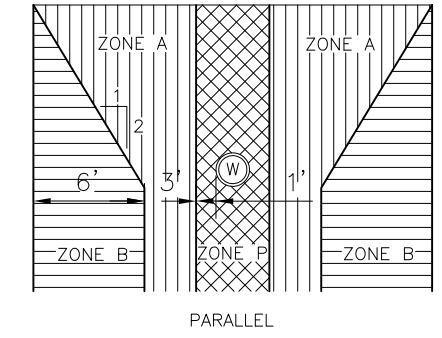
GATE VALVE INSTALLATION
NO SCALE



3/4" & 1" AIR/VAC VALVE AND VAULT
NO SCALE

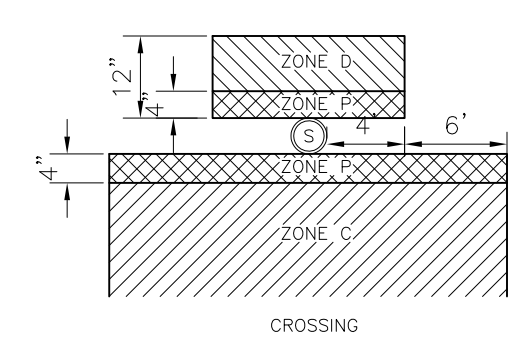
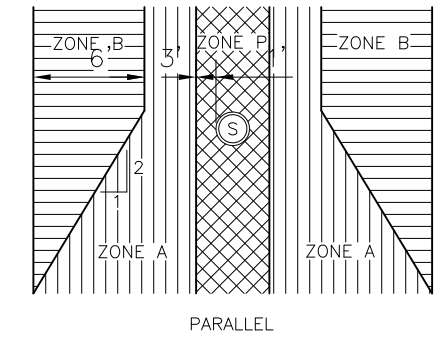


WATER LINE DRAIN
NO SCALE



CASE 1
NEW SEWER MAIN
FIGURE 1

ZONE P IS A PROHIBITED ZONE.
SECTION 64630(E)(2) CALIFORNIA
ADMINISTRATIVE CODE, TITLE 22.



CASE 2
NEW WATER MAIN
FIGURE 2

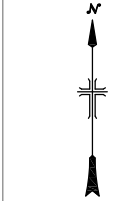
ZONE P IS A PROHIBITED ZONE.
SECTION 64630(E)(2) CALIFORNIA
ADMINISTRATIVE CODE, TITLE 22.

NOTES AND DEFINITIONS

- COMPRESSION JOINT - A PUSH-ON JOINT THAT SEALS BY MEANS OF THE COMPRESSION OF A RUBBER RING OR GASKET BETWEEN THE PIPE AND A BELL OF COUPLING.
- DIMENSIONS ARE FROM THE OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER LINE OR MANHOLE.
- FUSED JOINT - THE JOINING OF SECTIONS OF PIPE USING THERMAL OR CHEMICAL BONDING PROCESSES.
- GROUND WATER - SUBSURFACE WATER FOUND IN THE SATURATION ZONE.
- HEALTH AGENCY - THE STATE DEPARTMENT OF HEALTH SERVICES. FOR THOSE WATER SYSTEMS SUPPLYING LESS THAN 200 SERVICE CONNECTIONS, THE LOCAL HEALTH OFFICER SHALL ACT FOR THE DEPARTMENT OF HEALTH SERVICES.
- HOUSE LATERAL - A SEWER PIPE CONNECTING THE BUILDING DRAIN AND THE MAIN SEWER LINE.
- LOW HEAD WATER MAIN - ANY WATER MAIN WHICH HAS A PRESSURE OF 5 PSI OR LESS AT ANY TIME AT ANY POINT IN THE MAIN.
- MECHANICAL JOINT - BOLTED JOINT
- RATED WORKING WATER PRESSURE OR PRESSURE CLASS - A PIPE CLASSIFICATION SYSTEM BASED UPON INTERNAL WORKING PRESSURE OF THE FLUID IN THE PIPE, TYPE OF PIPE MATERIAL, AND THE THICKNESS OF THE PIPE WALL.
- SLEEVE - A PROTECTIVE TUBE OF STEEL WITH A WALL THICKNESS OF NOT LESS THAN ONE-FOURTH INCH INTO WHICH A PIPE IS INSERTED.
- WATER SUPPLIER - ANY PERSON WHO OWNS OR OPERATES A PUBLIC WATER SYSTEM

CROSSING OF WATER AND SEWER LINES
NO SCALE





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LANE BERRYSSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

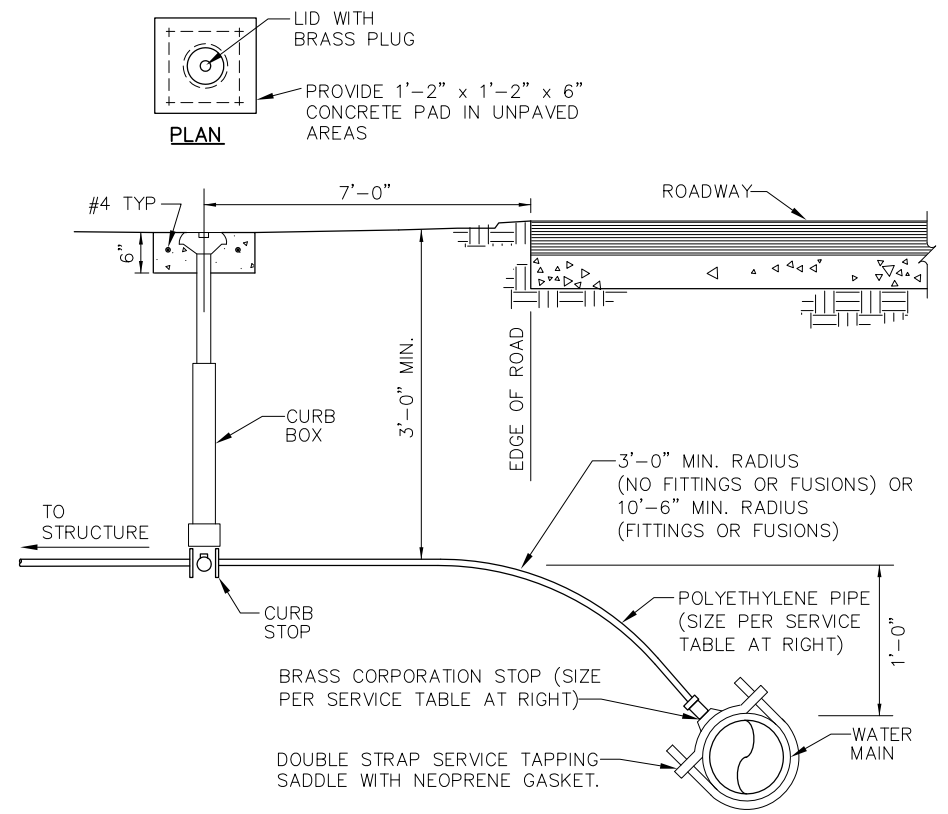


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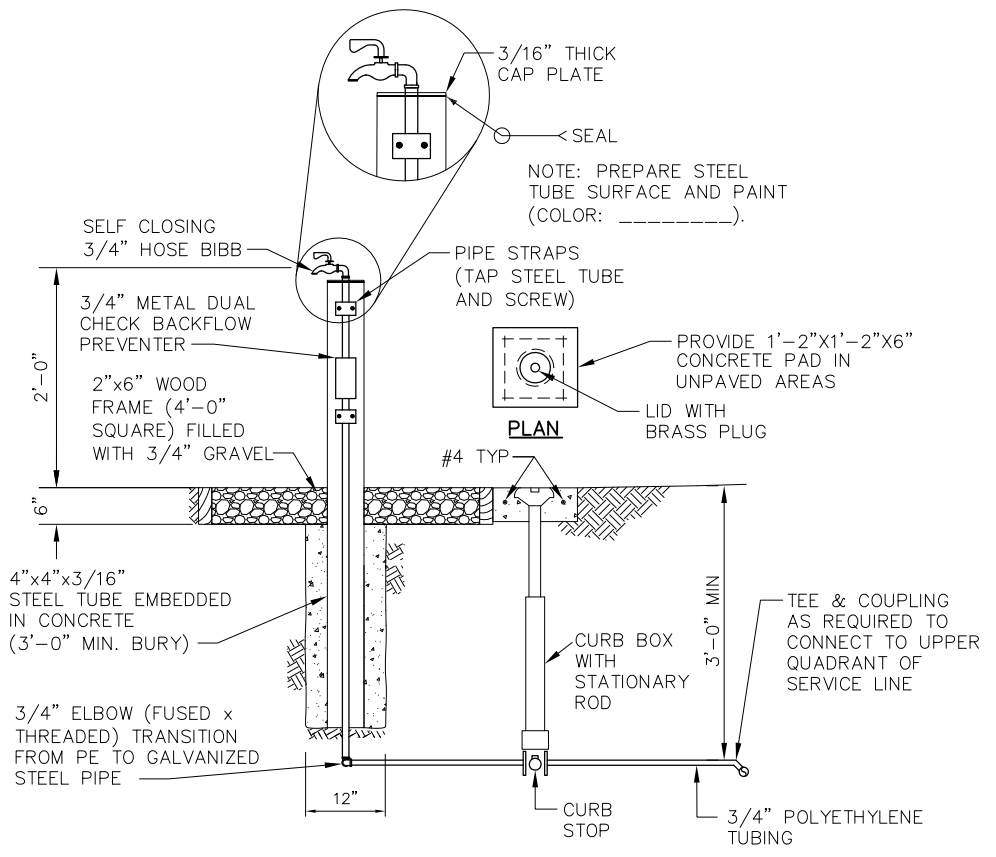
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YYYY-MM-DD

| WATER SERVICE SIZE TABLE | |
|--------------------------|--------------|
| FACILITY DESCRIPTION | SERVICE SIZE |
| PARK MODEL | 2" |
| CABIN | 2" |
| FISH CLEANING STATION | 1 3/4" |
| CONCESSIONAIRE BUILDING | 1 3/4" |
| RESTURANT | 1 3/4" |
| RETAIL STORE | 1 1/2" |
| COMFORT STATION | 2" |
| RV DUMP STATION | 3/4" |
| HOSE BIBB | 3/4" |
| YARD HYDRANT | 3/4" * |

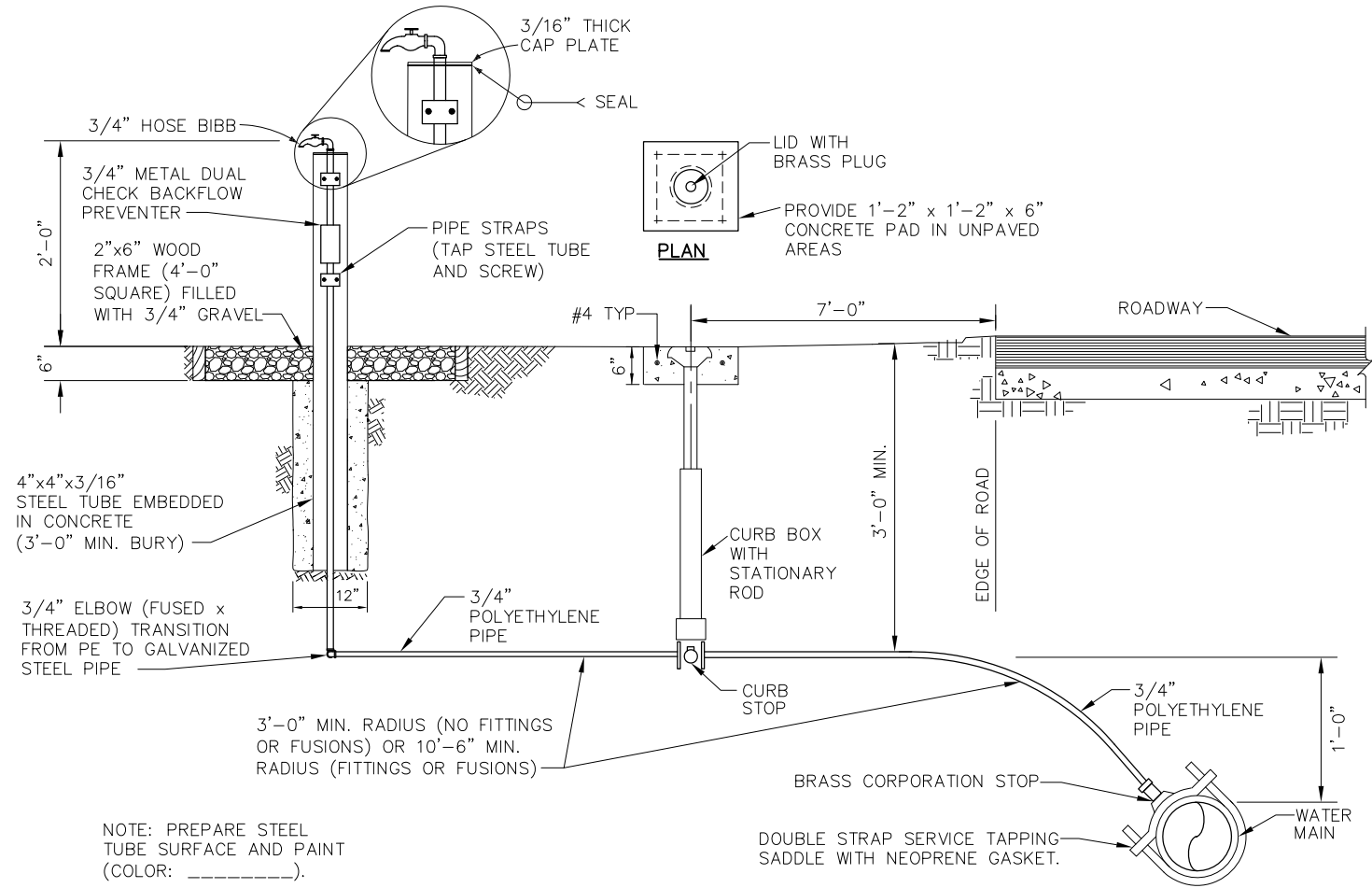
* UNLESS NOTED OTHERWISE ON PLANS



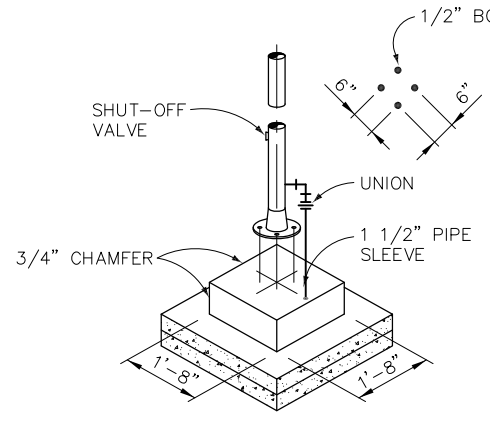
STRUCTURE WATER SERVICE
NO SCALE
A IW04



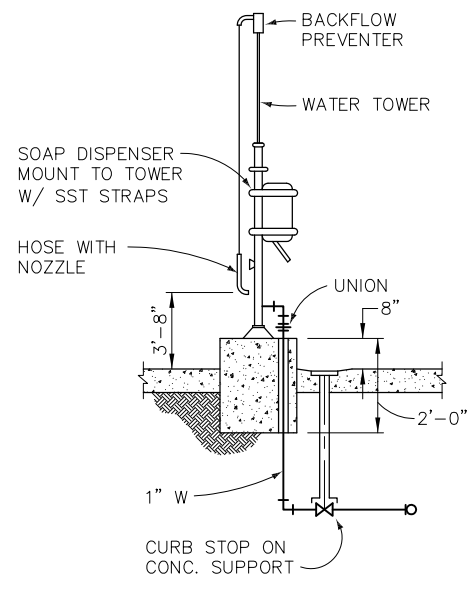
CAMPGROUND YARD HYDRANT
NO SCALE
B IW04



RV PEDESTAL WATER SERVICE
NO SCALE
C IW04



TOWER INSTALLATION



RV DUMP STATION WATER TOWER
NO SCALE
D IW04

NOTE: PREPARE STEEL TUBE SURFACE AND PAINT (COLOR: _____).

CONTRACTOR
DRAWN
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

MONTICELLO SHORES WATER DETAILS IV

LB-MSRA-IW04

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2

3

4

5

D

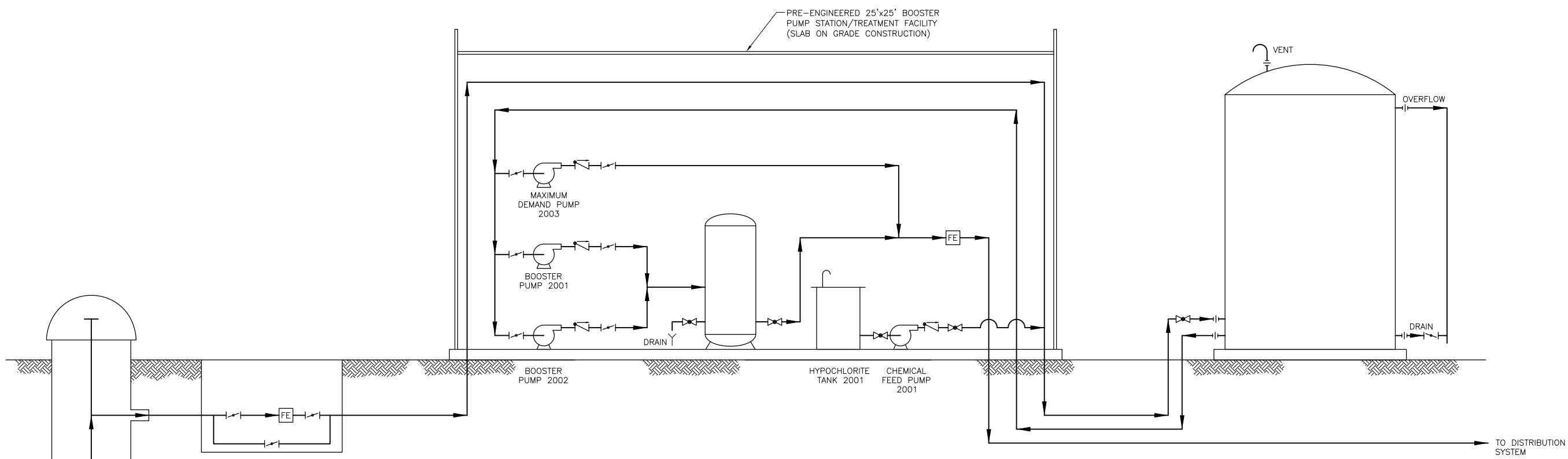
C

B

A



STA. COM. SMITH
105904.2330.019
YYYY-MM-DD
ACCEPTED:



PRE-ENGINEERED 25'x25' BOOSTER
PUMP STATION/TREATMENT FACILITY
(SLAB ON GRADE CONSTRUCTION)

MAXIMUM
DEMAND PUMP
2003

BOOSTER
PUMP
2001

BOOSTER
PUMP
2002

HYPOCHLORITE
TANK
2001

CHEMICAL
FEED PUMP
2001

VENT

OVERFLOW

DRAIN

TO DISTRIBUTION
SYSTEM

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DEVELOPMENT PLANS 60%

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NAME
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**MONTICELLO SHORES
WATER DETAILS V**

LB-MSRA-IW05

WELL WITH
PITLESS ADAPTOR
(SEE SHEET LB-MSRA-IP05)

METER VAULT
(SEE SHEET LB-MSRA-IP05)

MAXIMUM DEMAND/
BOOSTER PUMPS
(SEE SHEET LB-MSRA-IP03)

HYDROPNEUMATIC
TANK 2001
(SEE SHEET LB-MSRA-IP03)

HCL TABLET
FEEDER
(SEE SHEET LB-MSRA-IP03)

STORAGE
TANK 2001
(SEE SHEET LB-MSRA-IP03)

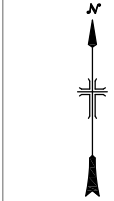
1

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LANE BERRYESSA (CALIFORNIA)

RECREATION AREA
DEVELOPMENT PLANS 60%

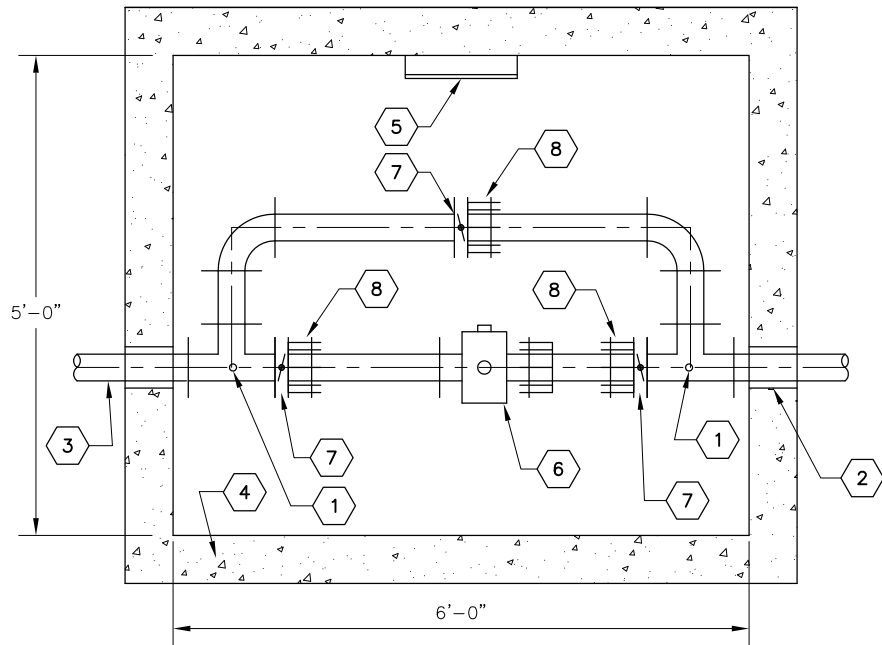
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ACCEPTED
NAME
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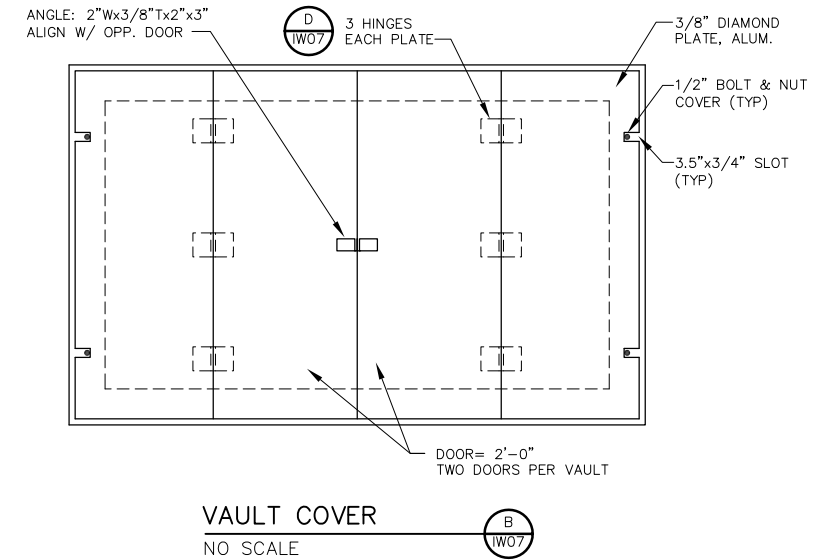
STATION NAME (CITY, ST) YYYY-MM-DD

MONTICELLO SHORES
WATER DETAILS VII

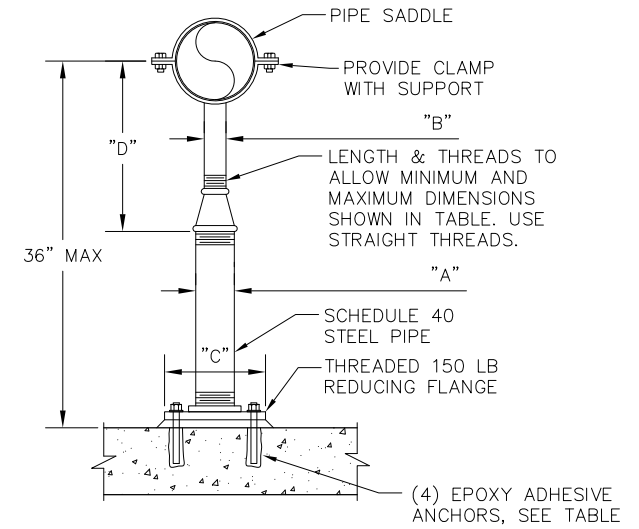
LB-MSRA-IW07



PLAN



VAULT COVER
NO SCALE



FLOOR PIPE SUPPORT SCHEDULE
DIMENSIONS IN INCHES

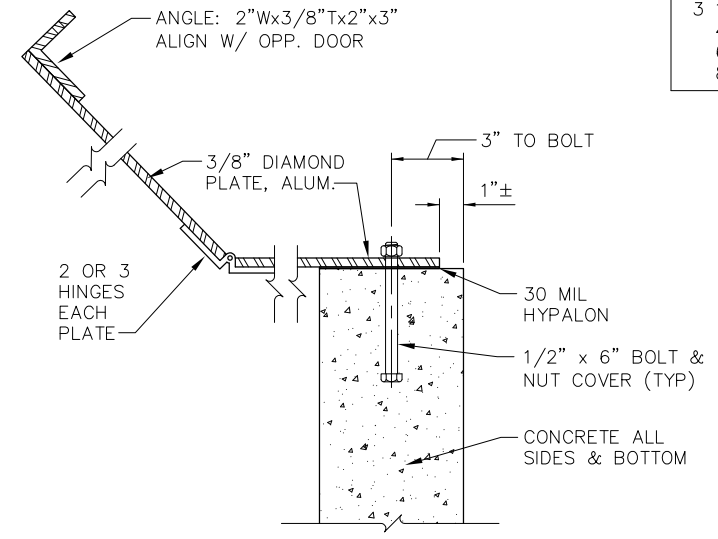
| PIPE SIZE | "A" | "B" | "C" | "D" | | ANCHORS | |
|-----------|-------|-------|-----|---------|---------|---------|-------|
| | | | | MINIMUM | MAXIMUM | DIA | EMBED |
| ≤ 2 1/2 | 2 1/2 | 1 1/2 | 9 | 8 | 13 | 5/8 | 5 |
| 3 | 2 1/2 | 1 1/2 | 9 | 8 1/2 | 13 1/2 | 5/8 | 5 |
| 3 1/2 | 2 1/2 | 1 1/2 | 9 | 8 1/2 | 13 1/2 | 5/8 | 5 |
| 4 | 3 | 2 1/2 | 9 | 9 1/2 | 14 | 5/8 | 5 |
| 6 | 3 | 2 1/2 | 9 | 10 1/2 | 15 1/2 | 5/8 | 5 |
| 8 | 3 | 2 1/2 | 9 | 11 1/2 | 16 1/2 | 5/8 | 5 |

SPECIFIC NOTES:

- 1 1" TAP AND 1" AIR/VAC W/ 1/16" AIR RELEASE ASSEMBLY
- 2 SLEEVE AND CAULK OPENINGS AROUND PIPE PENETRATION, TYP.
- 3 4" HDPE PIPE
- 4 PRECAST CONCRETE BOX (6'x5' INSIDE DIMENSIONS)
- 5 LADDER RUNGS AT 12" ON CENTER. CAST IN VAULT WITH FIRST RUNG 3" BELOW TOP OF ROOF SLAB.
- 6 4" MAGNETIC FLOW METER (ROSEMONT MO. NO. 8700 OR OR APPROVED EQUAL)
- 7 4" BUTTERFLY VALVE
- 8 4" FLANGE COUPLING ADAPTER

GENERAL NOTES:

- 1. ALL VAULTS SHALL HAVE AN INSIDE HEIGHT OF 5'-0". PIPING CENTERLINES SHALL BE SET 1'-0" ABOVE FLOOR OF VAULT. INSIDE DIMENSION PRECAST CONCRETE VAULT MEETING ASTM C-478-64T. PRECAST MFR. TO DESIGN FOR H20-44 LOADING AND PROVIDE STAMPED PLANS BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA OF STRUCTURAL DESIGN 2 WEEKS PRIOR TO CONSTRUCTION. 6" MINIMUM WALL THICKNESS
- 2. ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED USING MEGA-LUGS INSIDE VAULT AND MEGA-LUGS OR CONCRETE THRUST BLOCKS OUTSIDE VAULT.
- 3. SEE TYPICAL VAULT TOP COVER DETAILS ON THIS SHEET.
- 4. PROVIDE CONCRETE FLOOR WITH 4" DRAIN FLUSH WITH FLOOR AND PIPE TO DAYLIGHT WHERE GROUND IS SLOPED. SLOPE FLOOR TOWARDS DRAIN.
- 5. USE TYPE V ASTM C150 PORTLAND CEMENT ON ALL VAULTS.

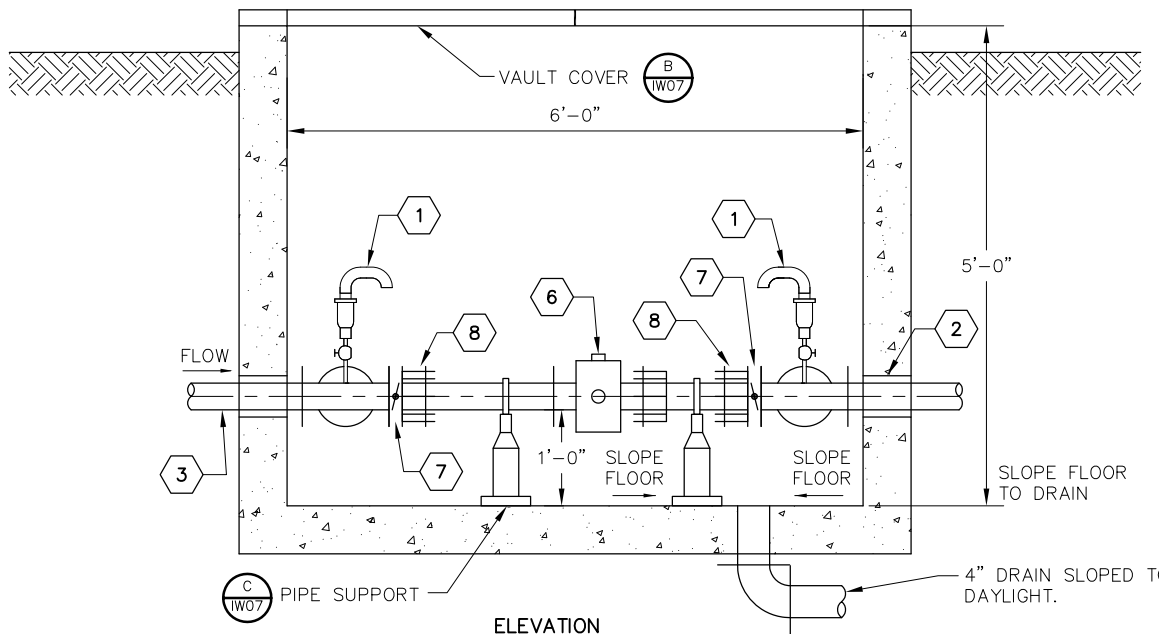


VAULT TOP HINGE
NO SCALE

NOTES:

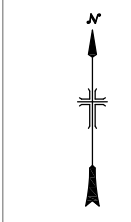
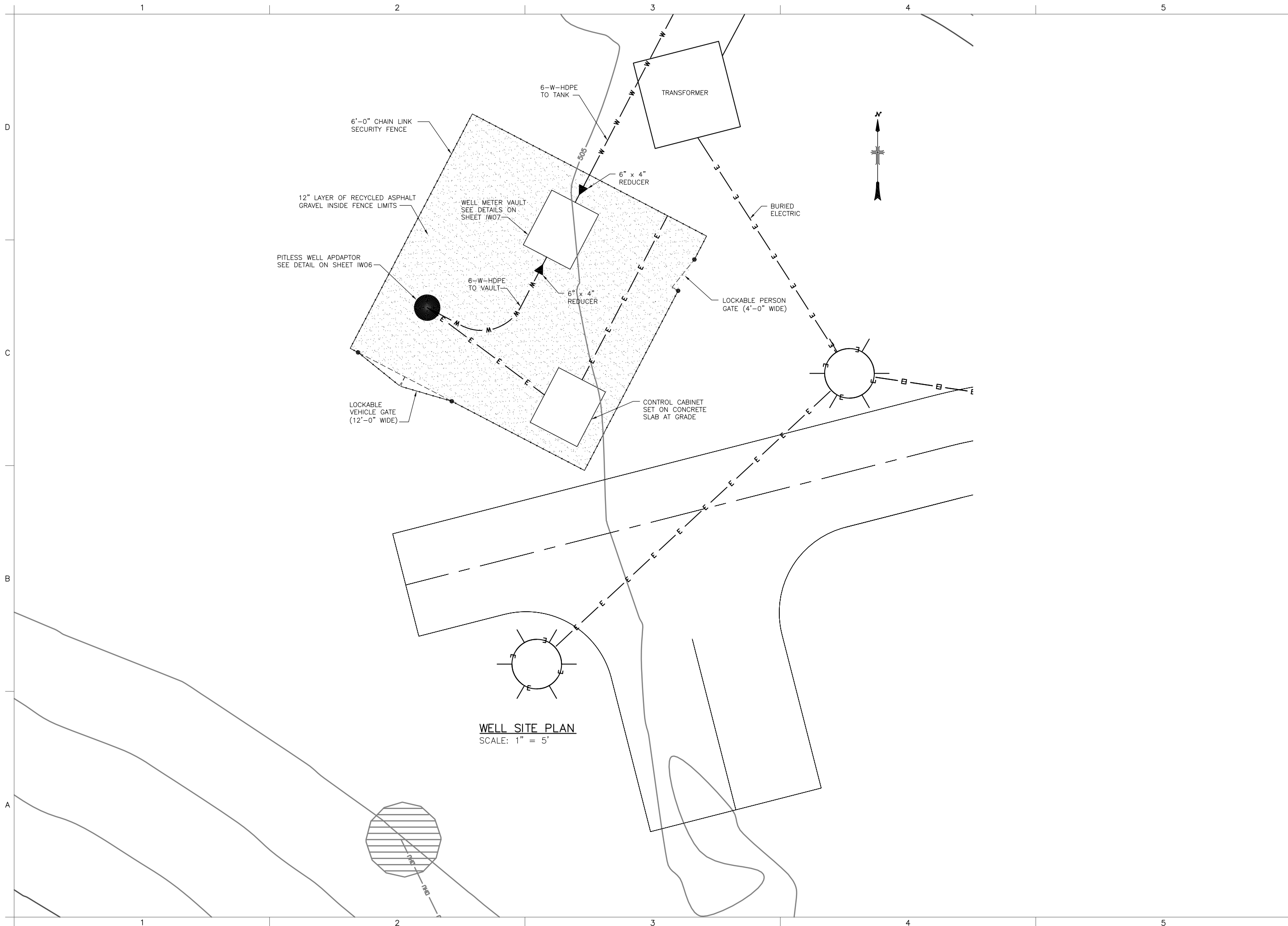
- 1. PIPE SUPPORT TO BE GALVANIZED AFTER FABRICATION

PIPE SUPPORT
NO SCALE



ELEVATION

WELL METER VAULT
NO SCALE



⊕ ALWAYS THINK SAFETY

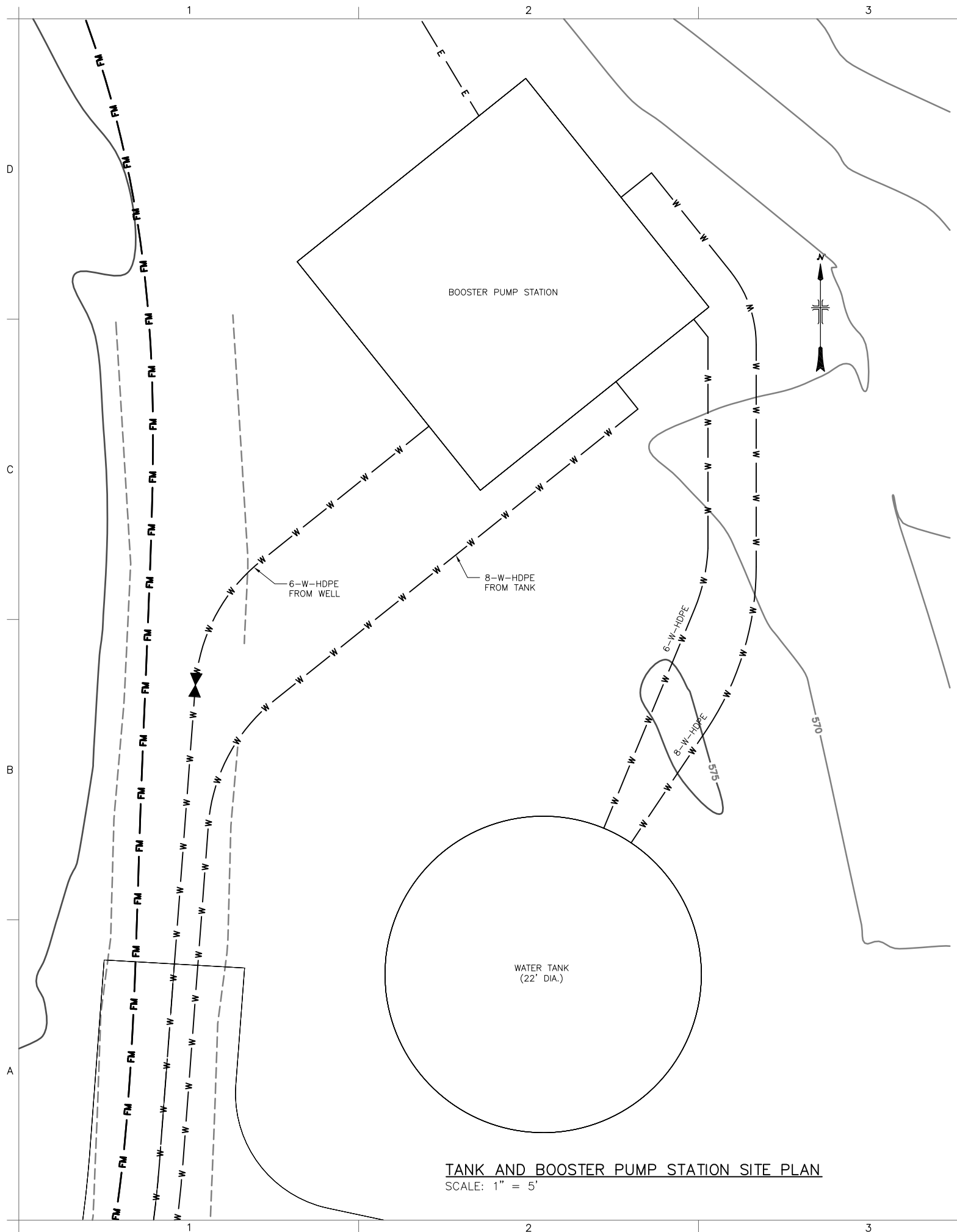
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CENTRAL CALIFORNIA AREA OFFICE
LANE BERRYESSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

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CONTRACTOR
DRAWN
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
WATER DETAILS VIII**

LB-MSRA-IW08



TANK AND BOOSTER PUMP STATION SITE PLAN
 SCALE: 1" = 5'



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RECREATION AREA
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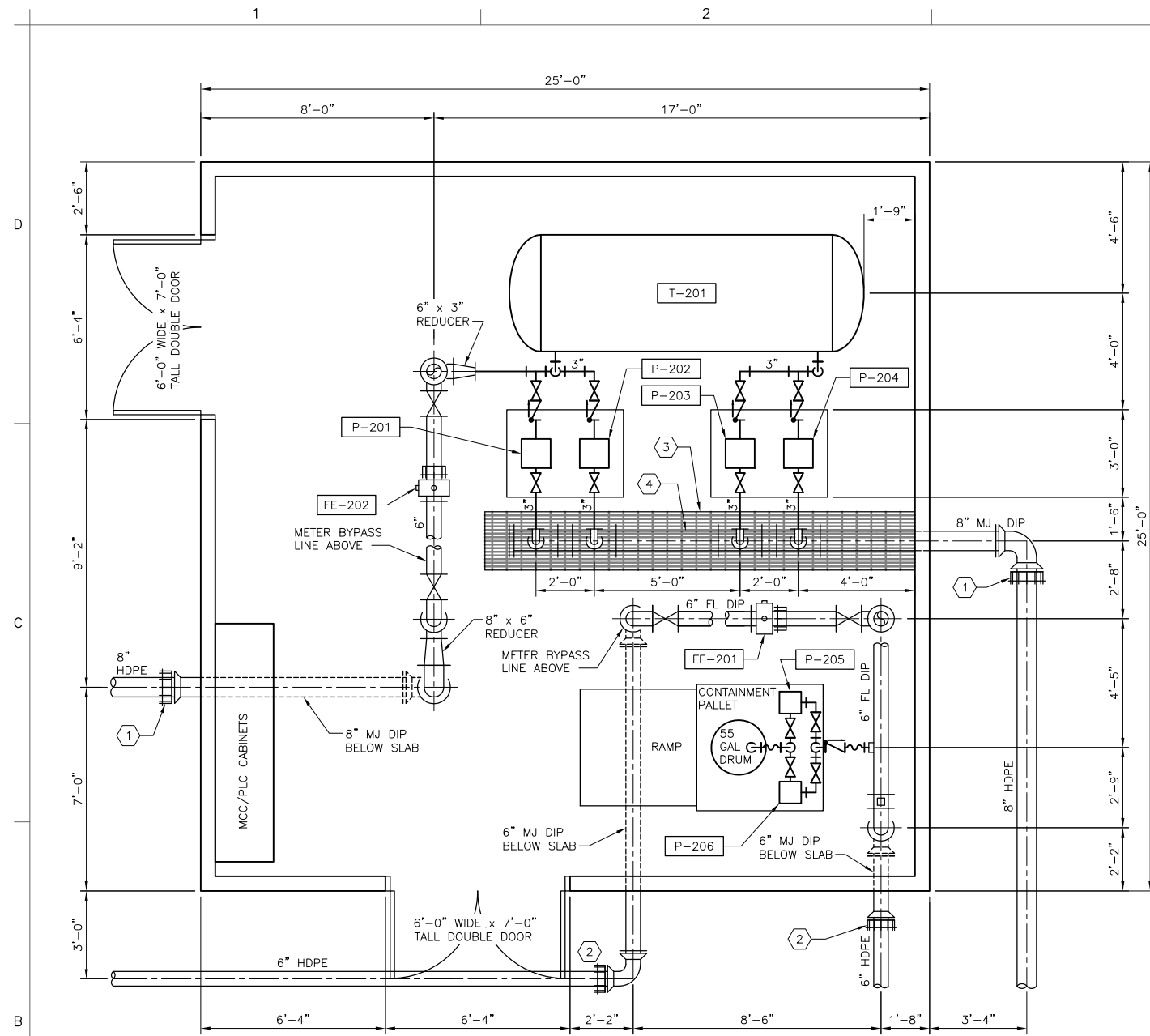
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STATION NAME (CITY, ST) YYYY-MM-DD

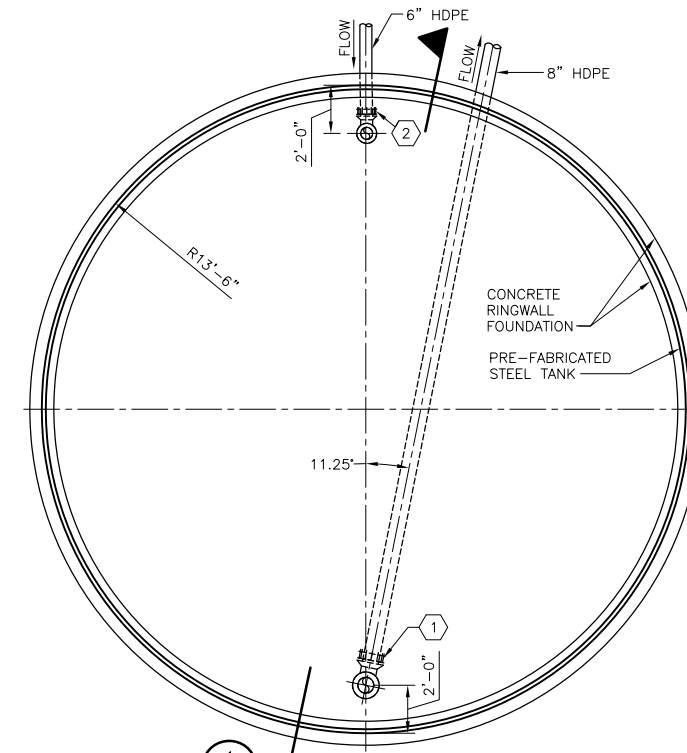
**MONTICELLO SHORES
 WATER DETAILS VIII**

LB-MSRA-IW09

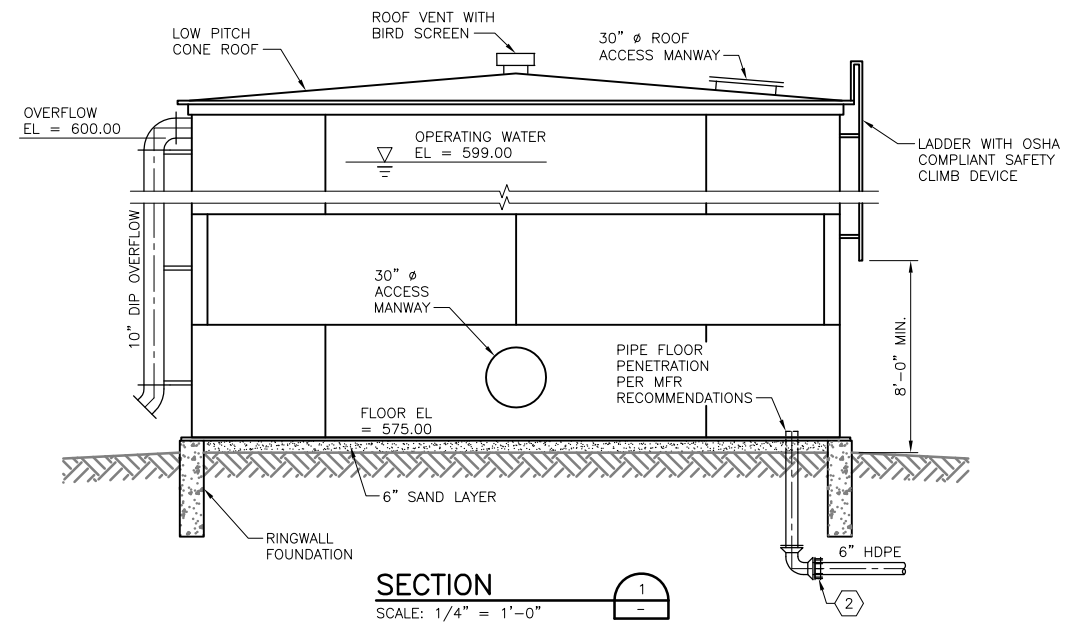


BOOSTER PUMP STATION FLOOR PLAN
SCALE: 3/8" = 1'-0"

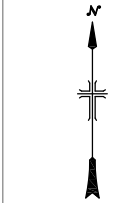
- GENERAL NOTES:**
- ALL BELOW SLAB OR GRADE PIPING TO BE MJ DIP UNLESS NOTED OTHERWISE.
 - ALL SINGLE LINE PIPING SHOWN SHALL BE PVC UNLESS NOTED OTHERWISE.
- SPECIFIC NOTES:**
- 8" MJ DIP TO HDPE RESTRAINED ADAPTOR COUPLING.
 - 6" MJ DIP TO HDPE RESTRAINED ADAPTOR COUPLING.
 - 2'-0" WIDE x 4'-0" DEEP PIPE TRENCH WITH GRATING COVER.
 - PIPING IN PIPE TRENCH TO BE FLANGED DIP.
 - PRE-FABRICATED METAL BUILDING.
- EQUIPMENT NOTES:**
- P-201 MAXIMUM DEMAND PUMP.
 - P-202 MAXIMUM DEMAND PUMP.
 - P-203 BOOSTER PUMP.
 - P-204 BOOSTER PUMP.
 - P-205 CHEMICAL FEED PUMP.
 - P-206 CHEMICAL FEED PUMP.
 - T-201 1100 GAL HYDROPNEUMATIC TANK.
 - FE-201 6" FLANGED MAGNETIC FLOW METER.
 - FE-202 6" FLANGED MAGNETIC FLOW METER.



WATER STORAGE TANK PLAN
SCALE: 1/4" = 1'-0"



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



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RECREATION AREA
DEVELOPMENT PLANS 60%

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NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
WATER DETAILS X**

LB-MSRA-IW10

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ONE-LINE SYMBOLOGY

CIRCUIT BREAKER (CB). RATING AND NO. OF POLES AS SHOWN. WHEN SPECIFIED TYPE, OTHER THAN MCCB, IS REQUIRED, X INDICATES TYPE, Y INDICATES TRIP FEATURES.

TYPES:
 MCCB - MOLDED CASE
 ICCB - INSULATED CASE
 LVP - LOW VOLTAGE POWER
 MCP - MOTOR CIRCUIT PROTECTOR
 (RATING PER CONNECTED LOAD)

TRIP FEATURES:
 L - LONG
 S - SHORT
 I - INSTANTANEOUS
 G - GROUND

GROUND FAULT PROTECTION

FUSE, SIZE, AND NUMBER OF FUSES AS NOTED

FUSED CUTOFF, CURRENT RATING, FUSE SIZE, AND NUMBER OF POLES AS NOTED

FUSIBLE SWITCH, CURRENT RATING, FUSE SIZE, AND QUANTITY AS NOTED

NON-FUSED SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED

INDICATES THAT ALL OR PART OF CIRCUIT MAY BE ROUTED IN DUCT BANK OR UNDERGROUND

DISCONNECT OR DRAWOUT CONNECTION

POLE MOUNTED LIGHT

RV, PARK MODEL POWER PEDESTAL. 50/30/20A

STANDARD SITES POWER PEDESTAL. 30/20A

CONCESSIONAIRE INSTALLED SERVICE. FOR CABINS, FISH CLEANING, COMFORT STATIONS, AND ALL OTHER SERVICES, AMPERAGE AS INDICATED.

TRANSFORMER

3-PHASE, 3-WIRE DELTA CONNECTION

3-PHASE, 4-WIRE GROUNDED WYE CONNECTION

SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED

ONE-LINE SYMBOLOGY

NON-MOTOR LOAD WITH DESIGN KVA, KW, OR AMP

VOLTAGE TRANSFORMER (VT OR PT)

CURRENT TRANSFORMER (CT)

UTILITY KWATT-HOUR METER PER UTILITY REQUIREMENTS

GROUND

LOW VOLTAGE SURGE PROTECTIVE DEVICE

POWER AND LIGHTING SYMBOLOGY

FUSED DISCONNECT OR SAFETY SWITCH, 3P, X INDICATES AMP RATING GREATER THAN 30A, Y INDICATES FUSE SIZE

SEPARATELY MOUNTED CIRCUIT BREAKER; SEE ELECTRICAL ONE-LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

CONTROL PANEL INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

CONTROL PANEL WITH DISCONNECT SWITCH INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

JUNCTION OR PULL BOX

PANELBOARD (250V TO 600V)

PANELBOARD (LESS THAN 250V)

ELECTRICAL EQUIPMENT ENCLOSURE: SWITCHBOARD, MOTOR CONTROL CENTER, CONTROL PANEL, TRANSFORMER OR OTHER EQUIPMENT AS INDICATED. ESTIMATED SIZE AS INDICATED. WHEN USED X INDICATES EQUIPMENT TYPE.

EQUIPMENT TYPES:
 ATS - AUTOMATIC TRANSFER SWITCH
 CP - CONTROL PANEL
 MTS - MANUAL TRANSFER SWITCH
 MCC - MOTOR CONTROL CENTER
 UPS - UNINTERRUPTABLE POWER SUPPLY
 VFD - VARIABLE FREQUENCY DRIVE
 SB - SWITCHBOARD
 SG - SWITCHGEAR
 T - TRANSFORMER

POWER AND LIGHTING SYMBOLOGY

POLE/STANCHION MOUNTED LUMINAIRE - LED

DOUBLE POLE/STANCHION MOUNTED LUMINAIRE - LED

CONDUIT AND WIRING SYMBOLOGY

CONDUIT TURNING UP

CONDUIT TURNING DOWN

HOME RUN TO PANEL, 2 #12, 1 #12G IN 3/4" UNLESS OTHERWISE NOTED

CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

FUTURE

CIRCUIT HASH MARKS (WHEN INDICATED); LONG, SHORT, SINGLE DOT, AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND, AND ISOLATED EQUIPMENT GROUND, RESPECTIVELY. #12 IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED.

CIRCUIT CONTINUATION

CONDUIT STUBBED OUT AND CAPPED

CORD AND PLUG CONNECTION

CONDUIT TAG OR CIRCUIT NUMBER - WIRE AND CONDUIT SIZE AS SPECIFIED IN CIRCUIT SCHEDULE ON THE SHEETS

GROUND CABLE

GROUND ROD

GROUND ROD IN TEST WELL

GROUND CONNECTION

SITE NAMING CONVENTION

(SITE)-(PANELBOARD #)-(TYPE)-(NUMBER)

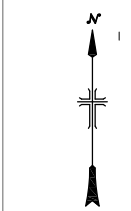
SITE

PC - PUTAH CANYON
 MS - MONTICELLO SHORES
 BP - BERRYESSA POINT
 SC - STEELE CANYON
 SF - SPANISH FLAT

TYPE

AE - ACCESSIBLE ENTRY
 BOAT - BOAT REPAIR OR SERVICE
 BOOST - BOOSTER PUMP
 CAB - CABIN
 CH - CAMP HOST SITE
 COB - CONCESSIONAIRE WITH BOAT REPAIR SHOP
 CON - CONCESSIONAIRE
 CS - COMFORT STATION
 DBS - DRY BOAT STORAGE
 EH - EMPLOYEE HOUSING
 FC - FISH CLEANING STATION
 FM - FLOATING MARINA
 FUEL - FUEL STORAGE OR DISPENSING
 GW - GROUND WATER PUMP
 MARINA - MARINA
 PM - PARK MODEL
 PS - PUMP STATION
 PLL - PARKING LOT LIGHT
 RV - RECREATIONAL VEHICLE SITE
 REST - RESTAURANT
 SS - STANDARD SITE WITH UTILITIES
 WWT - WASTE WATER TREATMENT FACILITY

- THIS IS A STANDARD ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SEE P&ID LEGEND SHEET FOR PROJECT-SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.



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 RECREATION AREA
 DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
 ZONE 2, U.S. SURVEY FEET
 HORIZONTAL DATUM: NAD 1983
 VERTICAL DATUM: NAVD 1988
 TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
 BATHYMETRIC CONTOUR INTERVAL: 10 FT.
 Topography by American Photomapping Services
 Compiled from photography: 201163
 Date of photography: October 20, 2011

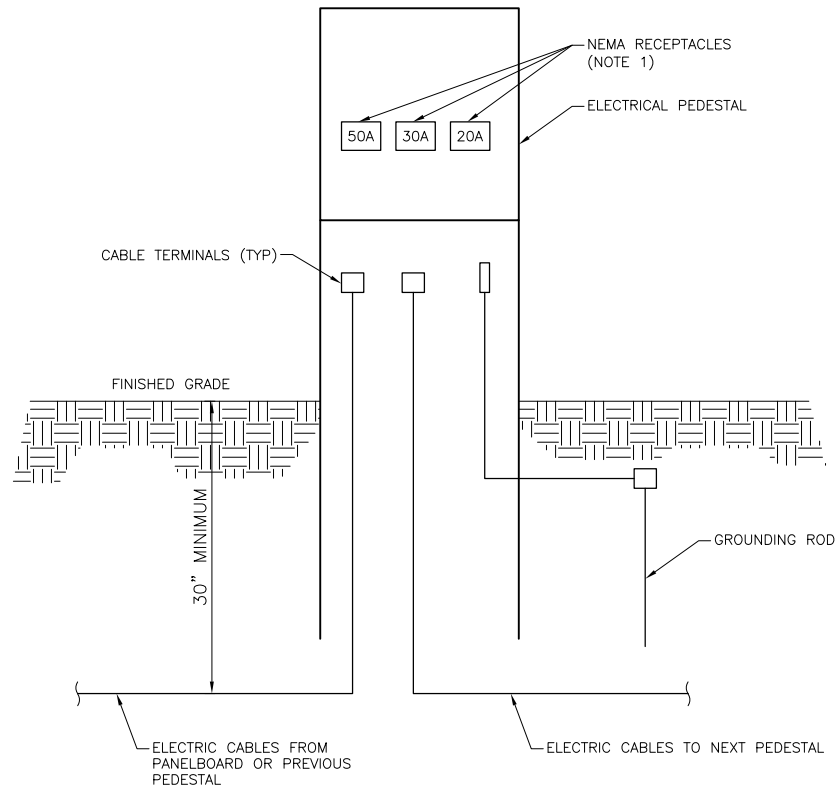
CONTRACTOR

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 NAME
 TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

MONTICELLO SHORES
 ELECTRICAL LEGEND

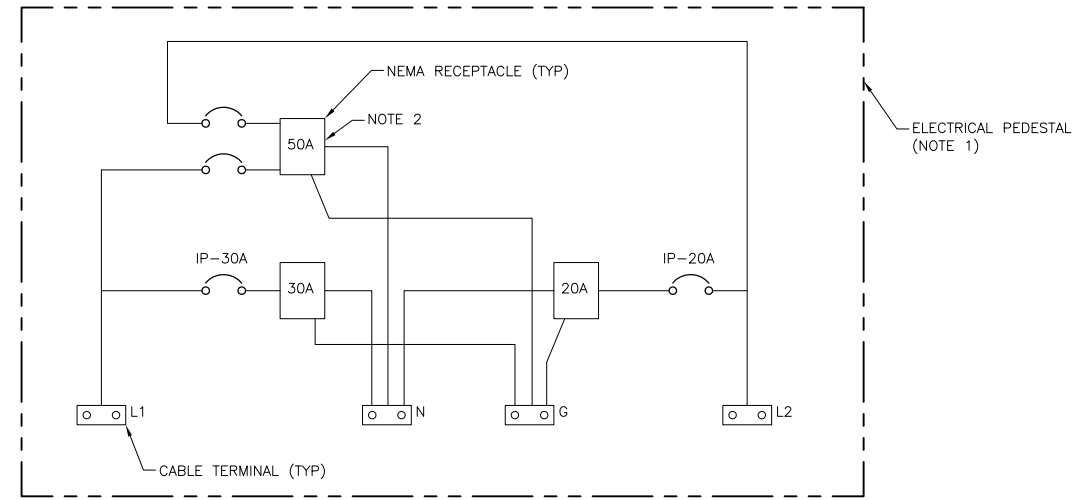
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NOTES:

1. NO 50A RECEPTACLE AT STANDARD SITES.

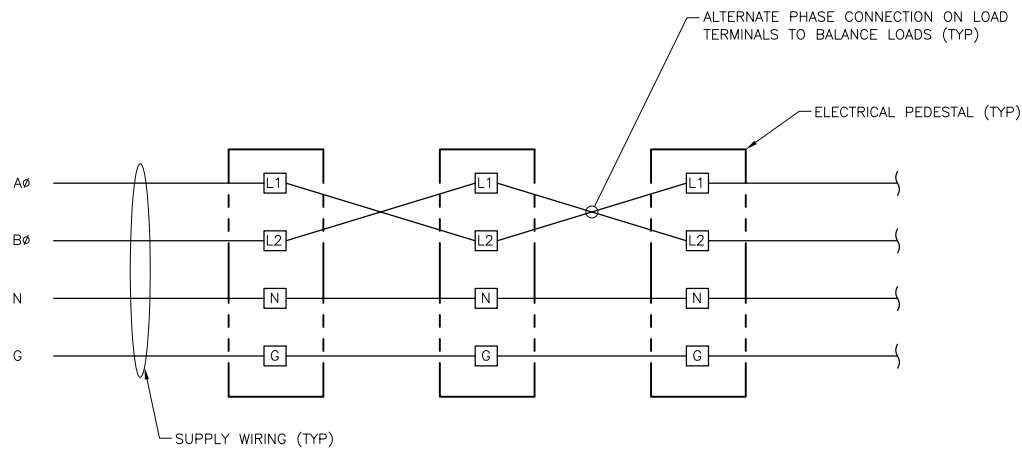
ELECTRICAL PEDESTAL
NO SCALE



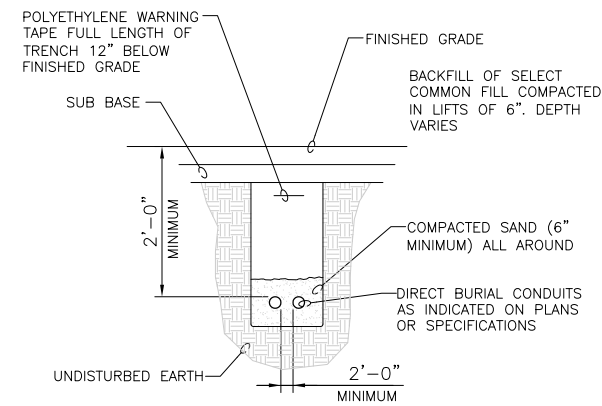
NOTES:

1. ELECTRICAL PEDESTAL IS ASSEMBLED BY MANUFACTURER.
2. 50A RECEPTACLE INCLUDED ONLY WHERE INDICATED.

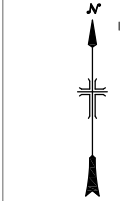
ELECTRIC PEDESTAL INTERNAL WIRING SCHEMATIC
NO SCALE



PEDESTAL-TO-PEDESTAL WIRING SCHEMATIC
NO SCALE



DIRECT-BURIED CONDUIT DETAIL
NO SCALE



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DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

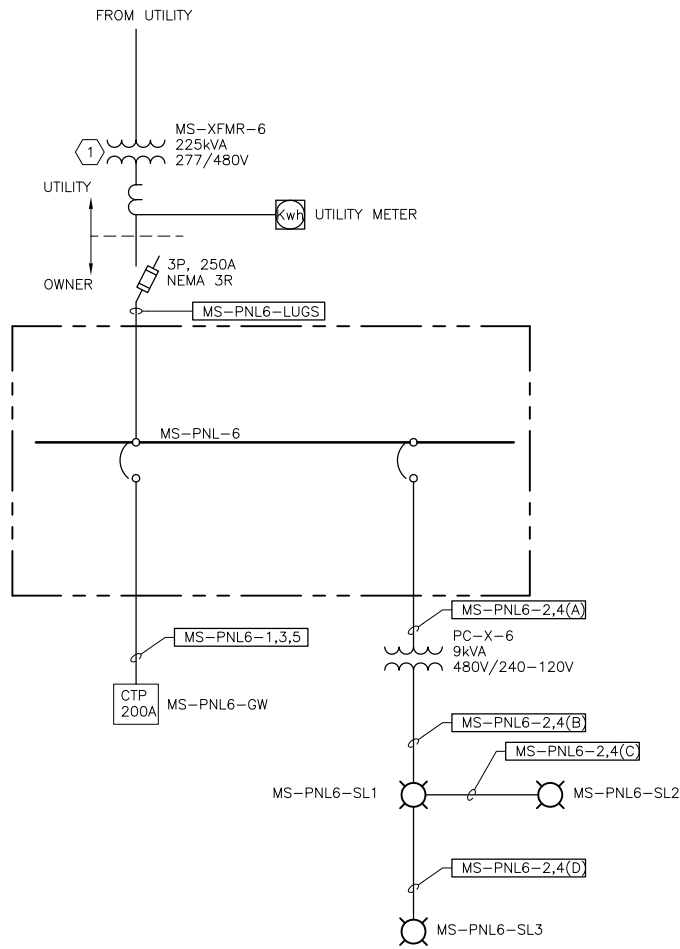
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MONTICELLO SHORES
ELECTRICAL DETAILS

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MS-PNL-6 ONELINE

| PANELBOARD: MS-PNL-6 | | | BUS: COPPER | | | | | MANS: | | | | | |
|----------------------|-------|-------|---------------------------|--------------|-----|-------|-----|-------|----------------------------------|-----------|------|------|-----|
| PHASE | "A" | "B" | SERVICE: 480/277, 3 PHASE | RATING: 250A | | | | | LOCATION: MONTICELLO SHORES PNL6 | PHASE | "A" | "B" | "C" |
| V.A. | V.A. | V.A. | MOUNTING: Outdoor NEMA 3R | P | BKR | CKT # | BKR | P | LOAD | V.A. | V.A. | V.A. | |
| 55426 | | | MS-PNL6-GW | 3 | 200 | 1 | 2 | 10 | MS-PNL6-SL1,2,3 | 720 | | | |
| | 55426 | | | - | - | 3 | 4 | - | | | 720 | | |
| | | 55426 | | - | - | 5 | 6 | | | | | | |
| | | | | | | 7 | 8 | | | | | | |
| | | | | | | 9 | 10 | | | | | | |
| | | | | | | 11 | 12 | | | | | | |
| | | | | | | 13 | 14 | | | | | | |
| | | | | | | 15 | 16 | | | | | | |
| | | | | | | 17 | 18 | | | | | | |
| 55426 | | | TOTAL "A" | 56146 | | | | | | TOTAL "A" | 720 | | |
| | 55426 | | TOTAL "B" | 56146 | | | | | | TOTAL "B" | | 720 | |
| | | 55426 | TOTAL "C" | 55426 | | | | | | TOTAL "C" | | | 0 |
| TOTAL LOAD = | | | | 167717 | | | | | | | | | |

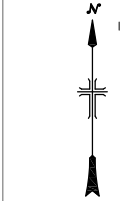
PANELBOARD MSCHEDULE MS-PNL-6

KEY NOTES

- SITE & SECURITY LIGHTING MAY NOT BE SHOWN ON ONE-LINES OR INFRASTRUCTURE PLAN.

KEY NOTES

- TRANSFORMER SIZE ESTIMATED. INSTALLED TRANSFORMER SIZE WILL BE DETERMINED BY PG&E.



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DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

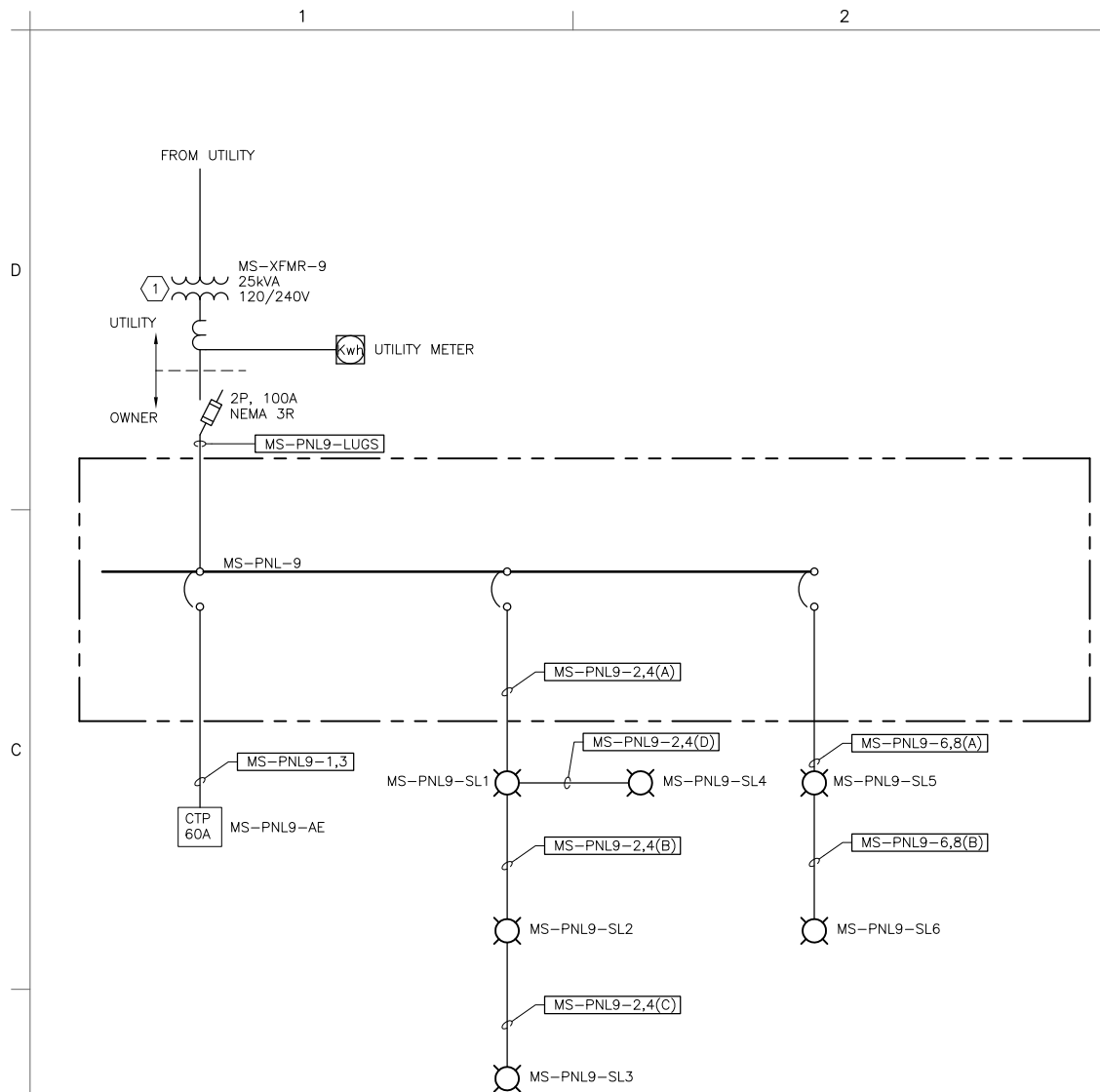
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**MONTICELLO SHORES
MS-PNL-6 ONELINE**

LB-MSRA-IE03

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MS-PNL-9 ONELINE

| PHASE | | PANELBOARD: MS-PNL-9 | BUS: COPPER | | MAINS: LUGS | | | | PHASE | | | |
|--------------|------|---------------------------|--------------|-----|-----------------------------------|----|-----|---|-------------------|------|------|--|
| "A" | "B" | SERVICE: 120/240, 1 PHASE | RATING: 100A | | LOCATION: MONTICELLO SHORES PNL 9 | | | | "A" | "B" | | |
| V.A. | V.A. | MOUNTING: Outdoor NEMA 3R | P | BKR | CKT # | | BKR | P | LOAD | V.A. | V.A. | |
| 7200 | - | MS-PNL9-AE | 2 | 60 | 1 | 2 | 10 | 2 | MS-PNL9-SL1,2,3,4 | 960 | 960 | |
| | 7200 | - | - | - | 3 | 4 | - | - | - | | 960 | |
| | | | | | 5 | 6 | 10 | 2 | MS-PNL9-SL5,6 | 480 | 480 | |
| | | | | | 7 | 8 | - | - | - | | 480 | |
| | | | | | 9 | 10 | | | | | | |
| | | | | | 11 | 12 | | | | | | |
| | | | | | 13 | 14 | | | | | | |
| | | | | | 15 | 16 | | | | | | |
| | | | | | 17 | 18 | | | | | | |
| 7200 | | TOTAL "A" | | | 8640 | | | | TOTAL "A" | 1440 | | |
| | 7200 | TOTAL "B" | | | 8640 | | | | TOTAL "B" | | 1440 | |
| TOTAL LOAD = | | | | | 17280 | | | | | | | |

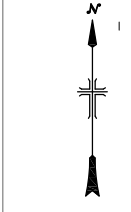
PANELBOARD SCHEDULE MS-PNL-9

KEY NOTES

1. SITE & SECURITY LIGHTING MAY NOT BE SHOWN ON ONE-LINES OR INFRASTRUCTURE PLAN.

KEY NOTES

① TRANSFORMER SIZE ESTIMATED INSTALLED TRANSFORMER SIZE WILL BE DETERMINED BY PG&E.



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 RECREATION AREA
 DEVELOPMENT PLANS 60%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM
 ZONE 2, U.S. SURVEY FEET
 HORIZONTAL DATUM: NAD 1983
 VERTICAL DATUM: NAVD 1988
 TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
 BATHYMETRIC CONTOUR INTERVAL: 10 FT.
 Topography by American Photomapping Services
 Compiled from photography: 201163
 Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED
NAME
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
MS-PNL-9 ONELINE**

LB-MSRA-IE04

STA. COM SMITH
 105904.2330.019
 YYYY-MM-DD
 ACCEPTED:

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| 1 | | | | 2 | | 3 | | 4 | | 5 | | | | | |
|---------------------------|-------------|-------------------------|---------|--------------|-------------------------|---------|---------|------------------------|----------|------------------|-------------|-------------------------|--------------------|--------|----------|
| FROM EQUIPMENT | | | | TO EQUIPMENT | | | | | | | | | | | |
| Circuit Number | Tag | Name | Comment | Tag | Name | Comment | Service | Voltage(Ref) | Material | Circuit Makeup | Cable Type | Raceway Type | Voltage Drop(%) | Length | Revision |
| PANEL 6 (MS-PNL-6) | | | | | | | | | | | | | | | |
| MS-PNL6-LUGS | MS-XFMR-6 | MONTICELLO XFMR 6 | | MS-PNL-6 | MONTICELLO PANELBOARD 6 | | Power | 480/277, 3 ϕ , 4W | Copper | 3#3/0,#6G,2" | XHHW/XHHW-2 | Direct Bury PVC(Sch 80) | 0.14% | 20 | |
| MS-PNL6-1,3,5 | MS-PNL-6 | MONTICELLO PANELBOARD 6 | | MS-PNL6-GW | GROUND WATER STATION | | Power | 480/277, 3 ϕ , 4W | Copper | 3#3/0,#6G,2" | XHHW/XHHW-2 | Direct Bury PVC(Sch 80) | 0.09% | 20 | |
| MS-PNL6-2,4(A) | MS-PNL-6 | MONTICELLO PANELBOARD 6 | | MS-X-6 | LIGHTING TRANSFORMER | | Power | 120/240, 1 ϕ , 3W | Copper | 3#10,#10G,3/4" | XHHW/XHHW-2 | Direct Bury PVC(Sch 80) | 0.12% | 20 | |
| MS-PNL6-2,4(B) | MS-X-6 | LIGHTING TRANSFORMER | | MS-PNL6-SL1 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 3#10,#10G,3/4" | XHHW/XHHW-3 | Direct Bury PVC(Sch 80) | 0.12% | 40 | |
| MS-PNL6-2,4(C) | MS-PNL6-SL1 | SECURITY LIGHT | | MS-PNL6-SL2 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 3#10,#10G,3/4" | XHHW/XHHW-4 | Direct Bury PVC(Sch 80) | 0.06% | 80 | |
| MS-PNL6-2,4(D) | MS-PNL6-SL1 | SECURITY LIGHT | | MS-PNL6-SL3 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 3#10,#10G,3/4" | XHHW/XHHW-5 | Direct Bury PVC(Sch 80) | 0.02% | 40 | |
| | | | | | | | | | | | | | Total=0.32% | | |
| PANEL 9 (MS-PNL-9) | | | | | | | | | | | | | | | |
| MS-PNL9-LUGS | MS-XFMR-9 | MONTICELLO XFMR 9 | | MS-PNL-9 | MONTICELLO PANELBOARD 9 | | Power | 120/240, 1 ϕ , 3W | Copper | 3#2,#6G,2" | XHHW/XHHW-2 | Direct Bury PVC(Sch 80) | 0.39% | 20 | |
| MS-PNL9-1,3 | MS-PNL-9 | MONTICELLO PANELBOARD 9 | | MS-PNL9-AE | ACCESSIBLE ENTRY | | Power | 120/240, 1 ϕ , 3W | Copper | 3#3,#8G,2" | XHHW/XHHW-2 | Direct Bury PVC(Sch 80) | 0.74% | 60 | |
| MS-PNL9-2,4(A) | MS-PNL-9 | MONTICELLO PANELBOARD 9 | | MS-PNL9-SL1 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 2#10, #10G, 3/4" | XHHW/XHHW-2 | Direct Bury PVC(Sch 80) | 0.33% | 40 | |
| MS-PNL9-2,4(B) | MS-PNL9-SL1 | SECURITY LIGHT | | MS-PNL9-SL2 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 2#10, #10G, 3/4" | XHHW/XHHW-3 | Direct Bury PVC(Sch 80) | 0.17% | 40 | |
| MS-PNL9-2,4(C) | MS-PNL9-SL2 | SECURITY LIGHT | | MS-PNL9-SL3 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 2#10, #10G, 3/4" | XHHW/XHHW-4 | Direct Bury PVC(Sch 80) | 0.12% | 60 | |
| MS-PNL9-2,4(D) | MS-PNL9-SL1 | SECURITY LIGHT | | MS-PNL9-SL4 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 2#10, #10G, 3/4" | XHHW/XHHW-5 | Direct Bury PVC(Sch 80) | 0.41% | 200 | |
| MS-PNL9-6,8(A) | MS-PNL-9 | MONTICELLO PANELBOARD 9 | | MS-PNL9-SL5 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 2#10, #10G, 3/4" | XHHW/XHHW-5 | Direct Bury PVC(Sch 80) | 0.17% | 40 | |
| MS-PNL9-6,8(B) | MS-PNL9-SL5 | SECURITY LIGHT | | MS-PNL9-SL6 | SECURITY LIGHT | | Power | 120/240, 1 ϕ , 3W | Copper | 2#10, #10G, 3/4" | XHHW/XHHW-6 | Direct Bury PVC(Sch 80) | 0.17% | 80 | |



STA. COM. SMITH
105904.2530.019
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ACCEPTED:

⊕ ALWAYS THINK SAFETY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
CENTRAL CALIFORNIA AREA OFFICE
LANE BERRERSSA (CALIFORNIA)
RECREATION AREA
DEVELOPMENT PLANS 60%

SURVEY NOTES
CALIFORNIA STATE PLANE COORDINATE SYSTEM
ZONE 2, U.S. SURVEY FEET
HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.
BATHYMETRIC CONTOUR INTERVAL: 10 FT.
Topography by American Photomapping Services
Compiled from photography: 201163
Date of photography: October 20, 2011

CONTRACTOR
DRAWN
ACCEPTED
NAME
TITLE
STATION NAME (CITY, ST) YYYY-MM-DD

**MONTICELLO SHORES
CABLE SCHEDULES**

LB-MSRA-IE05