

LOS OSOS WETLAND ENHANCEMENT PROJECT

95% DESIGN SUBMITTAL



VICINITY MAP
N.T.S. (GOOGLE)



REGIONAL MAP
N.T.S. (GOOGLE)

GENERAL NOTES

- TOPOGRAPHIC MAPPING WAS PERFORMED BY: WATERWAYS CONSULTING, INC. 509A SWIFT STREET, SANTA CRUZ, CA 95060. SURVEY DATE: MARCH 21, 2017 AND MAY 19, 2020.
- ELEVATION DATUM: GPS TIES TO NAVD88 USING THE LEICA GEOSYSTEMS SMARTNET GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) NETWORK.
- BASIS OF BEARINGS: GPS TIES TO NAD83 CALIFORNIA STATE PLANE, ZONE V USING THE LEICA GEOSYSTEMS SMARTNET GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) NETWORK.
- AERIAL PHOTO SOURCE: AUTOCAD CIVIL 3D 2019 GEOLOCATION MAP.
- CONTOURS SHOWN ARE BASED ON LIDAR WHERE NOTED. ELEVATIONS ON PROFILES AND SECTIONS ARE BASED ON TOPOGRAPHIC MAPPING UNLESS OTHERWISE NOTED. CONTOUR INTERVAL IS NOTED PER PLAN. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
- LIDAR SOURCE: 2017 USGS CONED TOPOBATHYMETRIC MODEL.
- THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES ARE NOT SHOWN HEREON.
- THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES WERE COMPILED FROM RECORD INFORMATION. THE LOCATION OF THESE LINES IS SUBJECT TO CHANGE, PENDING THE RESULTS OF A COMPLETE BOUNDARY SURVEY.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE 2018 EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").
- THESE DESIGNS ARE INCOMPLETE WITHOUT THE FINAL STAMPED TECHNICAL SPECIFICATIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO TECHNICAL SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.

ABBREVIATIONS

APPROX	APPROXIMATE
AVG	AVERAGE
CC	CONCRETE
CY	CUBIC YARDS
DIA	DIAMETER
(E)	EXISTING
EG	EXISTING GROUND
ELEV	ELEVATION
DI	DRAINAGE INLET
FG	FINISHED GRADE
FT	FEET
IN.	INCH
INV	INVERT
LF	LINEAR FEET
MIN	MINIMUM
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
POC	POINT OF CONNECTION
RC	RELATIVE COMPACTION
RSP	ROCK SLOPE PROTECTION
SCH	SCHEDULE
SPK	SPIKE
SQ FT	SQUARE FOOT
T	TREE
TBD	TO BE DETERMINED
TYP	TYPICAL
UNK	UNKNOWN
WSE	WATER SURFACE ELEVATION
YR	YEAR

TREE SPECIES

A	ALDER
BM	BIGLEAF MAPLE
C	COTTONWOOD
CYP	CYPRESS
DF	DOUGLAS FIR
EUC	EUCALYPTUS
M	MAPLE
MAD	MADRONE
O	OAK
R	REDWOOD
RC	RED CEDAR
T	TREE (SPECIES UNKNOWN)
W	WILLOW
WF	WHITE FIR

PROJECT DESCRIPTION

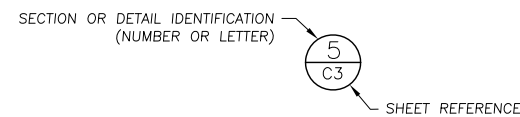
THESE DRAWINGS PROVIDE 95% LEVEL DETAILS FOR WETLAND HABITAT ENHANCEMENT AT THE LOS OSOS WETLAND CREEK PRESERVE. THIS PROJECT WILL BE PHASED OVER TWO YEARS TO ALLOW FOR REMOVAL OF ALL ELECTRICAL UTILITY INFRASTRUCTURE BY OTHERS. RESTORATION ACTIVITIES AND THEIR ASSOCIATED PHASES INCLUDE:

- DEMOLITION OF ABANDONED BUILDINGS (PHASE 1)
- DEMOLITION AND DECOMMISSIONING OF AN ABANDONED RESIDENTIAL WELL (PHASE 1)
- DEMOLITION OF CULVERTS (PHASE 1)
- CONSTRUCTION OF A ROCKED FORD CREEK CROSSING (PHASE 1)
- LEVEE BREACHING (PHASE 1)
- ROAD DECOMMISSIONING (PHASE 2)

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C5	ROCKED FORD SITE PLAN
C6	LEVEE BREACH GRADING PROFILE AND SECTIONS
C7	DETAILS
C8	GENERAL NOTES

SECTION AND DETAIL CONVENTION



*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
PRIOR TO ANY CONSTRUCTION WORK 1-800-227-2600

DRAFT
NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS
RESOURCE CONSERVATION
DISTRICT

COVER

LOS OSOS WETLAND
ENHANCEMENT
95% DESIGN SUBMITTAL

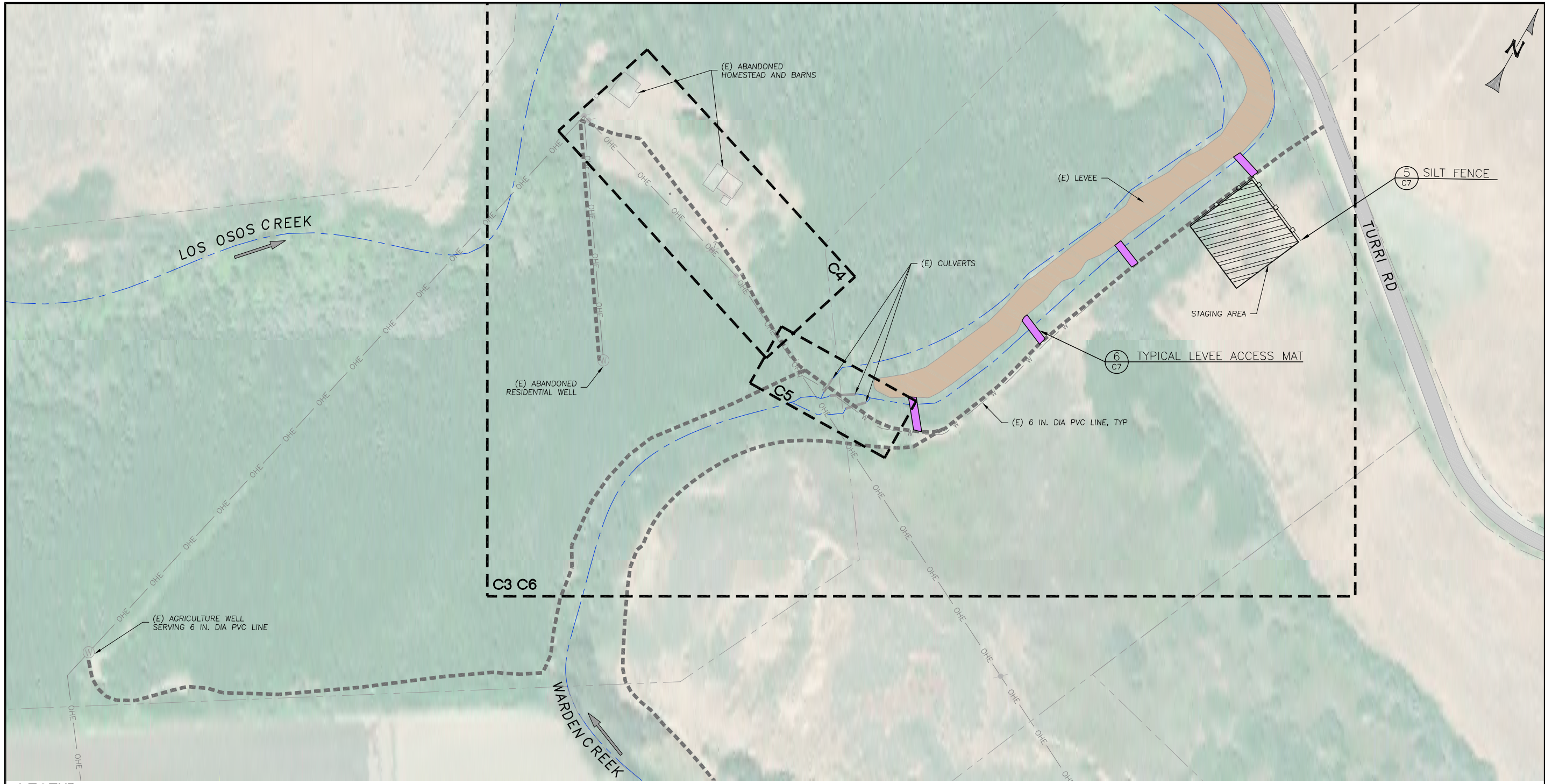
DESIGNED BY: J.H./B.T.
DRAWN BY: M.M.
CHECKED BY: M.W.W.
DATE: 5/21/2021
JOB NO.: 16-073

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

C1 1 OF 8

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f:\engineering\16-073 los osos wetland\16-073 OVERVIEW.DWG - 5/21/2021 8:59 AM



LEGEND	
	(E) THALWEG
	GUY LINE
	POWER POLE
	PARCEL BOUNDARY (APPROX)
	(E) OVERHEAD POWER LINES
	(E) 6 IN. DIA PVC PIPE
	SILT FENCE
	EXISTING ACCESS
	(E) PUBLIC ROAD
	(E) LEVEE
	LEVEE ACCESS MAT
	STAGING AREAS
	(E) CMP CULVERT
	(E) WELL

OVERVIEW, ACCESS, AND STAGING PLAN
SCALE: 1" = 100'

ACCESS AND STAGING AREA NOTES

1. UTILIZE ONLY THE APPROVED ACCESS POINTS, AS SHOWN ON THE DRAWINGS. MATERIALS SHALL BE STOCKPILED WITHIN AN EXISTING FLAT AND PREVIOUSLY DISTURBED AREA.
2. ACCESS PLAN IS SCHEMATIC. CONTRACTOR SHALL SUBMIT A SITE ACCESS PLAN FOR APPROVAL BY THE ENGINEER.
3. THE DOWNSLOPE PERIMETER OF STAGING OR STOCKPILE AREAS SHALL BE CONTAINED WITH SILT FENCE OR FIBER ROLLS. SUPPLY EROSION CONTROL MATERIALS AND COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSTALLATION BY OTHERS.
4. ALL EQUIPMENT AND MATERIALS SHALL BE STORED, MAINTAINED, AND REFUELED IN A DESIGNATED PORTION OF THE STAGING AREA.
5. MAINTAIN AND PROTECT EXISTING DRAINAGE FEATURES.

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PRIOR TO ANY CONSTRUCTION WORK 1-800-227-2800

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OVERVIEW,
ACCESS, AND
STAGING PLAN

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LEGEND

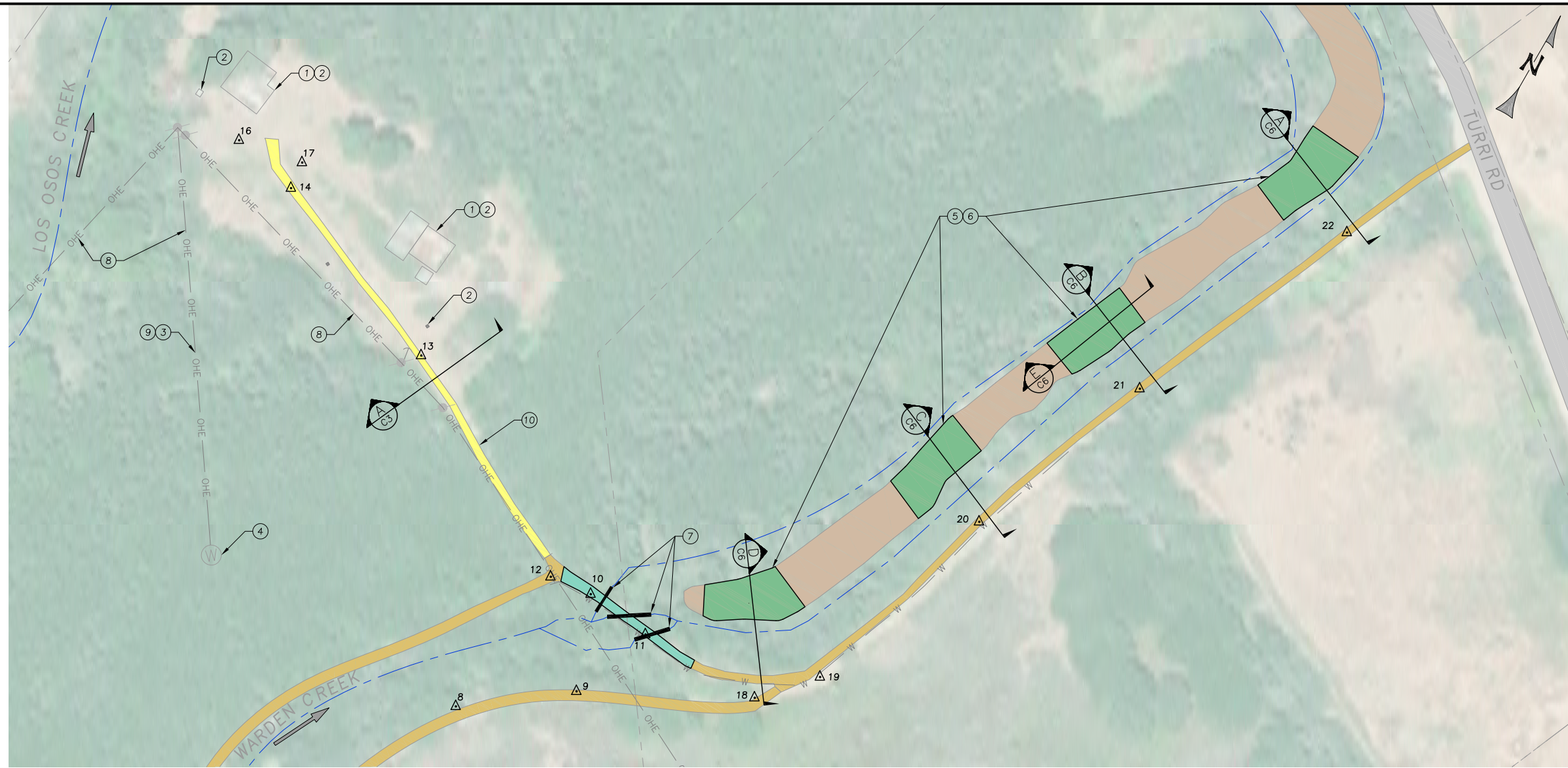
- (E) THALWEG
- SURVEY CONTROL POINT
- DEMOLITION KEY NOTE
- PARCEL BOUNDARY (APPROX)
- (E) OVERHEAD POWER LINES
- (E) 6 IN. DIA PVC PIPE
- (E) PAVED ROAD
- (E) GRAVEL ROAD TO REMAIN
- DECOMMISSION GRAVEL ROAD
- (E) LEVEE
- LEVEE BREACH
- (N) FORD CROSSING
- (E) CMP CULVERT
- (E) INACTIVE WELL
- (E) BUILDING/STRUCTURE

NOTES

1. BUILDING OUTLINES SHOWN ARE APPROXIMATE, VERIFY DIMENSIONS AND LOCATIONS IN FIELD.
2. LEVEE DIMENSIONS SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO WORK.
3. SUPPLY SEED FOR INSTALLATION BY OTHERS FOR ALL SOILS DISTURBED IN PHASE 1.
4. SUPPLY AND INSTALL SEED AND MULCH FOR ALL SOILS DISTURBED IN PHASE 2.

CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.	DESC.
8	2316008.76'	5723398.80'	30.84'	SPIKE
9	2316090.11'	5723506.27'	32.24'	REBAR
10	2316191.21'	5723466.11'	20.44'	REBAR
11	2316182.82'	5723541.02'	19.82'	SPIKE
12	2316185.65'	5723418.05'	17.84'	SPIKE
13	2316326.18'	5723171.18'	22.38'	SPIKE
14	2316414.66'	5722953.48'	38.45'	SPIKE
16	2316431.85'	5722877.07'	42.72'	REBAR
17	2316445.37'	5722949.93'	47.07'	REBAR
18	2316182.69'	5723680.86'	28.52'	SPIKE
19	2316238.80'	5723732.14'	26.46'	SPIKE
20	2316475.95'	5723799.02'	21.78'	SPIKE
21	2316692.67'	5723879.43'	15.87'	SPIKE
22	2316957.31'	5723991.80'	15.45'	SPIKE



DEMOLITION AND LEVEE BREACH PLAN

SCALE: 1" = 70'

PHASE 1 DEMOLITION SEQUENCING KEY NOTES

- ① PERFORM ASBESTOS ABATEMENT MEASURES FOR ALL BUILDINGS AND STRUCTURES BEING DEMOLISHED USING LICENSED ABATEMENT CONTRACTORS.
- ② DEMOLISH STRUCTURES, FOUNDATIONS, AND OTHER MISCELLANEOUS IRRIGATION AND TELECOMMUNICATIONS FEATURES.
- ③ CLEAR A 12 FT WIDE PATH TO THE EXISTING WELL FOR WELL DECOMMISSIONING. STOCKPILE CLEARED VEGETATION TO PLACE BACK ON ROAD AFTER DECOMMISSIONING.
- ④ DECOMMISSION WELL PER THE CALIFORNIA DEPARTMENT OF WATER RESOURCES REQUIREMENTS USING A SPECIALTY WELL DRILLING CONTRACTOR.
- ⑤ CLEAR AND GRUB VEGETATION FROM THE BREACH LOCATIONS AND PLACE THIS MATERIAL IN CHANNEL DOWNSTREAM OF BREACH AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
- ⑥ BREACH LEVEES AND PLACE EXCAVATED MATERIAL IN HOMESTEAD AREA, SEE SHEET C4.
- ⑦ GRUB VEGETATION AROUND ROAD CROSSING, AND DEMOLISH CULVERTS CLEAR, SEE SHEET C5.
- ⑧ REMOVAL OF UTILITY POLES AND OVERHEAD WIRES WILL BE PERFORMED BY OTHERS PRIOR TO PHASE 2.

PHASE 2 DEMOLITION SEQUENCING KEY NOTES

- ⑨ DECOMMISSION ACCESS ROAD FROM HOMESTEAD TO THE WELL BY RIPPING COMPACTED SOILS TO A 6-IN. DEPTH AND COVERING WITH SLASH CLEARED FROM THE ROAD BY OTHERS IN PHASE 1.
- ⑩ DECOMMISSION ROAD FROM HOMESTEAD TO THE FORD CROSSING AND REGRADE, SEE SHEET C4.

EROSION CONTROL SEED MIX

COMMON NAME	BOTANICAL NAME	POUNDS PER ACRE
CUCAMONGA BROME	BROMUS CARINATUS/CUCAMONGA'	20
SMALL FESCUE	FESTUCA MICROSTACHYS	8
FOOTHILL/TREE CLOVER	TRIFOLIUM CILIATUM	4

*** CALL BEFORE YOU DIG ***

CONTACT UNDERGROUND SERVICE ALERT (USA)
PRIOR TO ANY CONSTRUCTION WORK 1-800-227-2600

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PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT

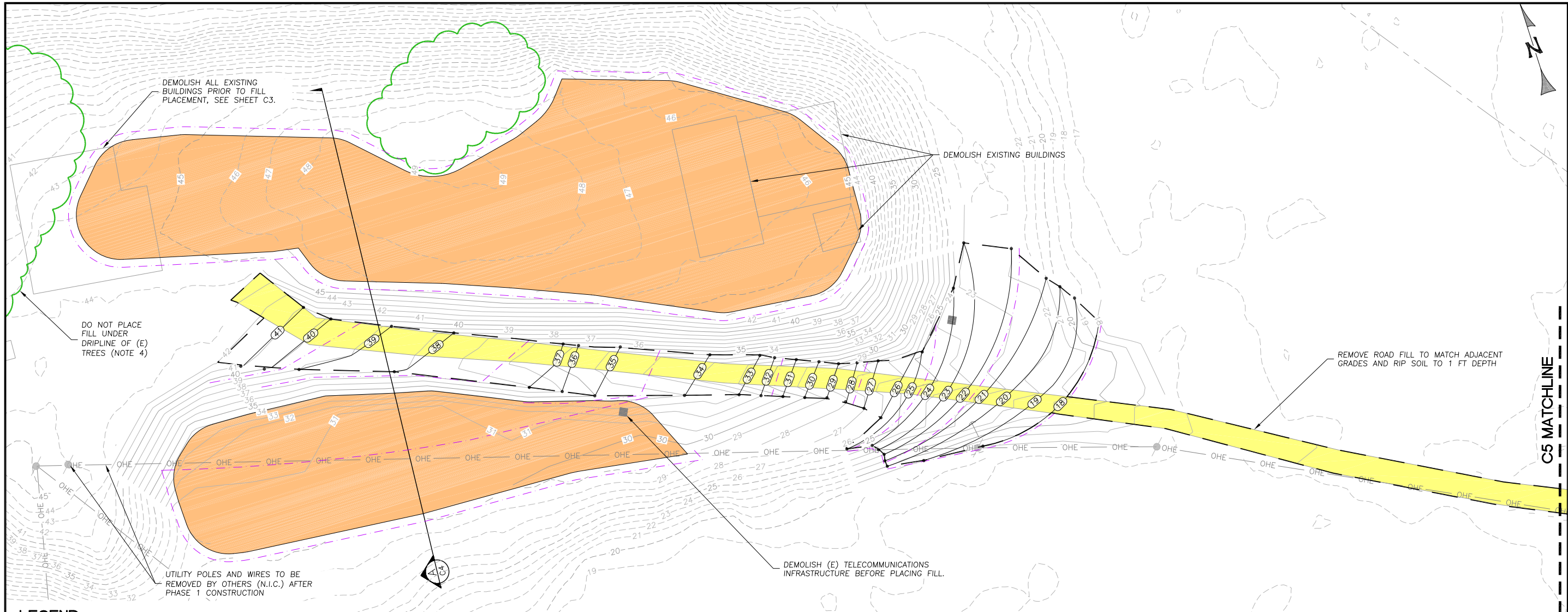
DEMOLITION AND LEVEE BREACH PLAN

LOS OSOS WETLAND ENHANCEMENT 95% DESIGN SUBMITTAL

DESIGNED BY: J.H./B.T.
DRAWN BY: M.M.
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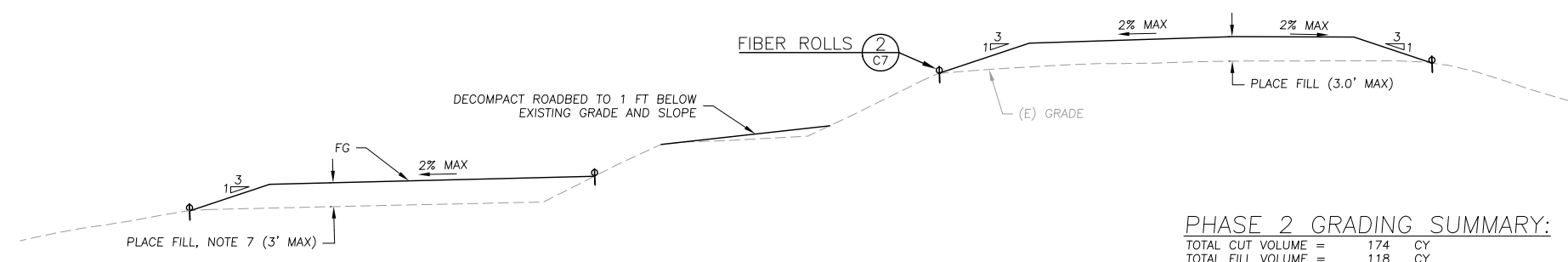
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LEGEND

	LIDAR (E) CONTOURS 1 FT INTERVAL
	(E) CONTOURS BY WW 1 FT INTERVAL
	(N) CONTOURS 1 FT INTERVAL
	(E) THALWEG
	(E) GUY LINE
	(E) POWER POLE
	(E) TELECOMMUNICATIONS FEATURE
	PARCEL BOUNDARY (APPROX)
	(E) EDGE OF ROAD
	(E) OVERHEAD POWER LINES
	(N) FIBER ROLL
	PHASE 2 GRADING EXTENT
	FILL PLACEMENT AREA
	DECOMMISSIONED GRAVEL ROAD

HOMESTEAD GRADING PLAN
 SCALE: 1" = 20'



TYPICAL FILL PLACEMENT GRADING SECTION
 SCALE: 1" = 10'

PHASE 2 GRADING SUMMARY:
 TOTAL CUT VOLUME = 174 CY
 TOTAL FILL VOLUME = 118 CY

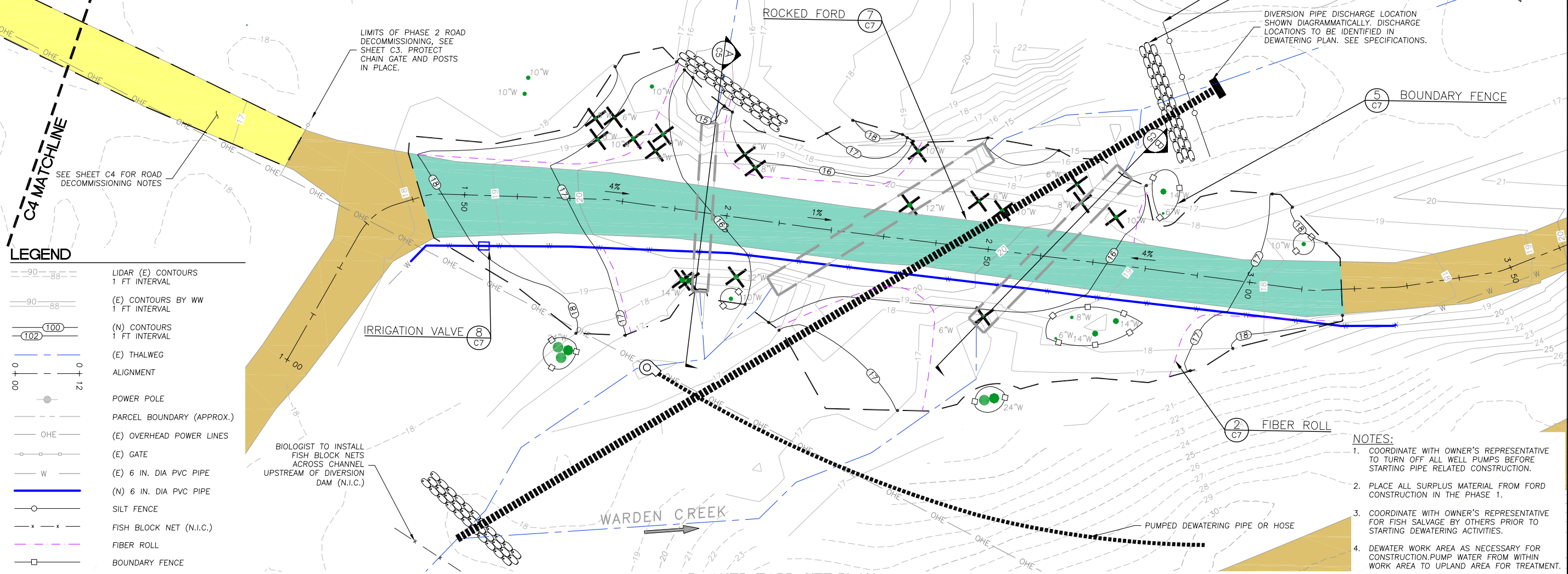
- NOTES:**
- DEMOLISH ALL EXISTING BUILDINGS PRIOR TO FILL PLACEMENT, SEE SHEET C3.
 - PLACE SURPLUS EXCAVATED MATERIALS FROM THE LEVEE BREACH AND FORD CROSSING IN THE FILL PLACEMENT AREAS SHOWN.
 - PROTECT (E) ACCESS ROAD FOR WORK BY OTHERS THAT WILL OCCUR BETWEEN PHASE 1 AND PHASE 2 DEMOLITION.
 - DECOMMISSION ROAD FROM HOMESTEAD TO THE FORD CROSSING AS FOLLOWS:
 - REGRADE ROAD BETWEEN TOP AND BASE OF HILL PER THE GRADING PLAN.0.2
 - BETWEEN THE BASE OF THE HILL AND THE FORD CROSSING, REMOVE ROAD FILL MATERIALS TO MATCH ADJACENT GRADES AND RIP COMPACTED SOIL TO 1 FT DEPTH.
 - SLOPE ALL GRADING AREAS TO DRAIN WITHOUT CREATING ANY AREAS OF POTENTIAL PONDING OR CONCENTRATED FLOW. TRACKWALK ALL EXPOSED SOILS WITHIN THE LIMITS OF GRADING. ALL TRACK MARKS SHALL BE ORIENTED PERPENDICULAR TO THE SLOPE.
 - PLACE EXCESS MATERIAL GENERATED FROM PHASE 2 ROAD DECOMMISSIONING IN LOWER FILL PLACEMENT AREA.
 - SEED AND MULCH ALL DISTURBED SOILS FOLLOWING CONSTRUCTION ACTIVITIES.

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f:\engineering\16-073 los osos wetland\16-073 HOMESTEAD GRADING.DWG - 5/21/2021 9:00 AM

TREE REMOVAL SUMMARY

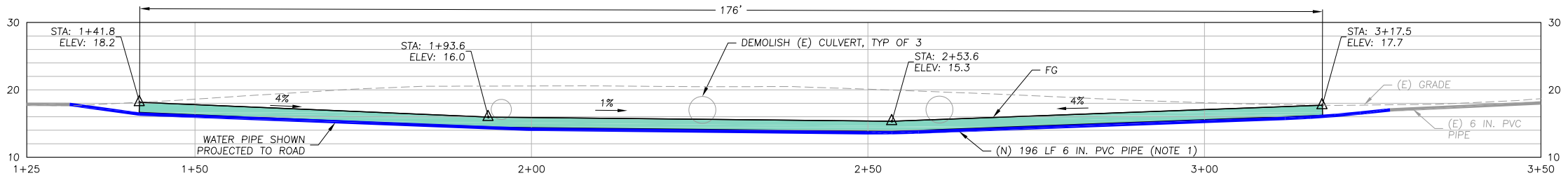
TREE SPECIES	SYMBOL	DBH	QUANTITY
WILLOW	W	14"	2
WILLOW	W	12"	2
WILLOW	W	10"	5
WILLOW	W	8"	4
WILLOW	W	6"	6



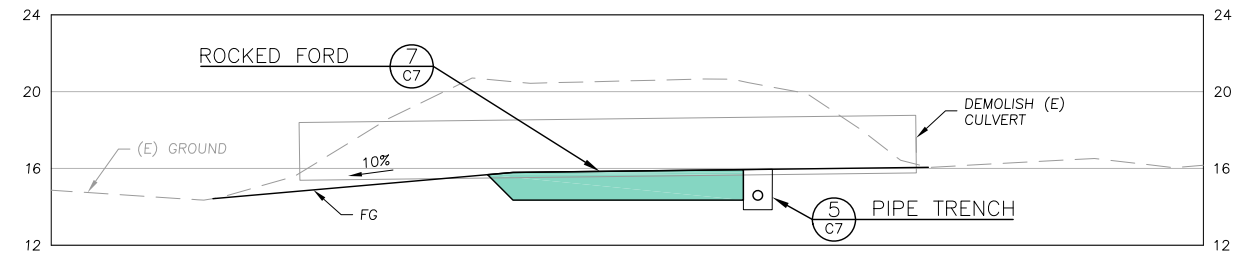
LEGEND

- LIDAR (E) CONTOURS 1 FT INTERVAL
- (E) CONTOURS BY WW 1 FT INTERVAL
- (N) CONTOURS 1 FT INTERVAL
- (E) THALWEG ALIGNMENT
- POWER POLE
- PARCEL BOUNDARY (APPROX.)
- (E) OVERHEAD POWER LINES
- (E) GATE
- (E) 6 IN. DIA PVC PIPE
- (N) 6 IN. DIA PVC PIPE
- SILT FENCE
- FISH BLOCK NET (N.I.C.)
- FIBER ROLL
- BOUNDARY FENCE
- (E) EDGE OF ROAD
- (E) CMP CULVERT
- GRADING EXTENT
- DIVERSION PIPE
- DEWATERING PIPE
- (E) GRAVEL ROAD TO REMAIN
- DECOMMISSIONED GRAVEL ROAD
- (N) FORD CROSSING
- DIVERSION PUMP
- (E) TREE
- (E) TREE TO BE REMOVED

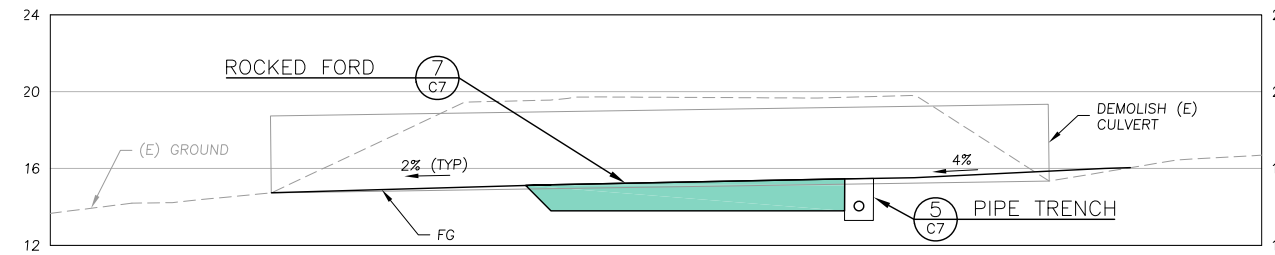
- ### NOTES:
- COORDINATE WITH OWNER'S REPRESENTATIVE TO TURN OFF ALL WELL PUMPS BEFORE STARTING PIPE RELATED CONSTRUCTION.
 - PLACE ALL SURPLUS MATERIAL FROM FORD CONSTRUCTION IN THE PHASE 1.
 - COORDINATE WITH OWNER'S REPRESENTATIVE FOR FISH SALVAGE BY OTHERS PRIOR TO STARTING DEWATERING ACTIVITIES.
 - DEWATER WORK AREA AS NECESSARY FOR CONSTRUCTION. PUMP WATER FROM WITHIN WORK AREA TO UPLAND AREA FOR TREATMENT.



ROCKED FORD PROFILE
SCALE: 1" = 10'



ROCKED FORD GRADING SECTION (A)
SCALE: 1" = 5'



ROCKED FORD GRADING SECTION (B)
SCALE: 1" = 5'

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PRIOR TO ANY CONSTRUCTION WORK 1-800-227-2800

DRAFT
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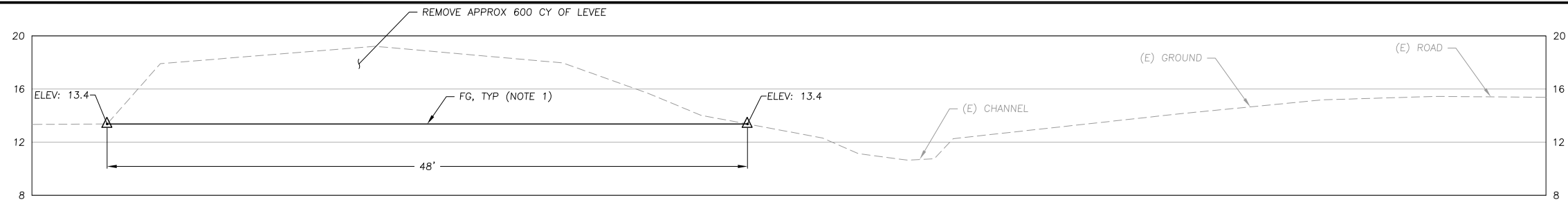
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ROCKED FORD SITE PLAN

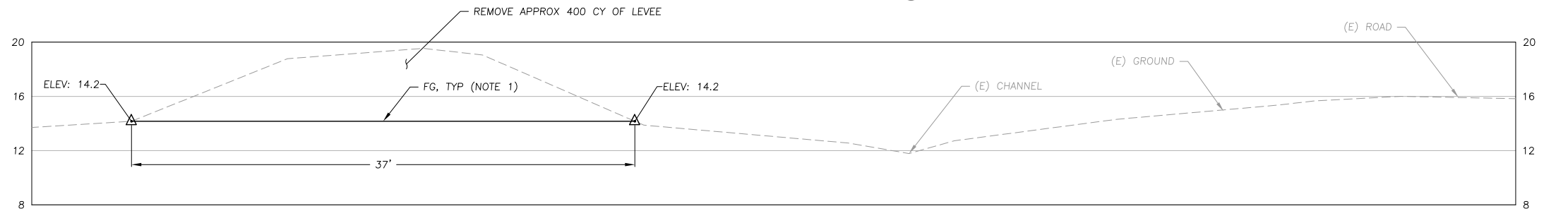
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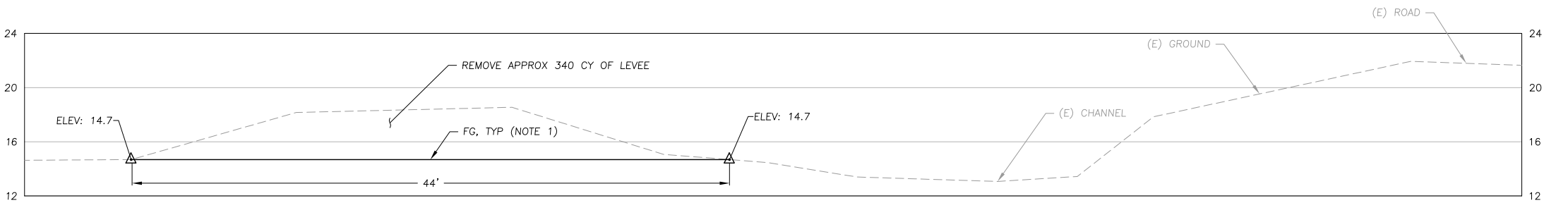
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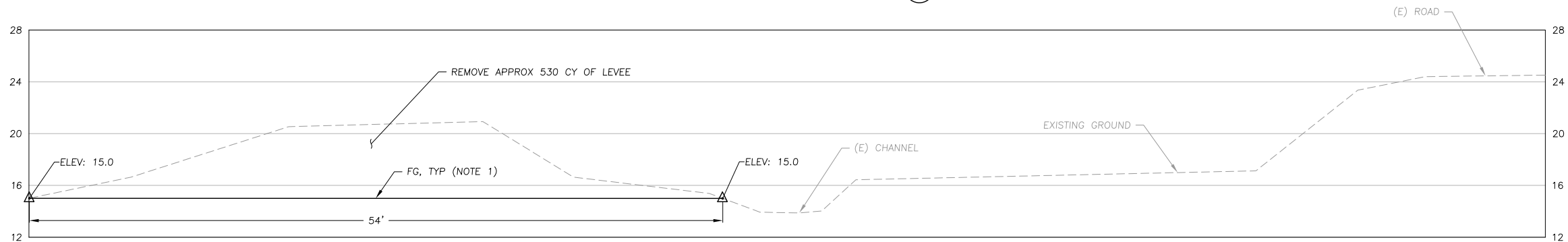
LEVEE REMOVAL SECTION A
SCALE: 1" = 5'



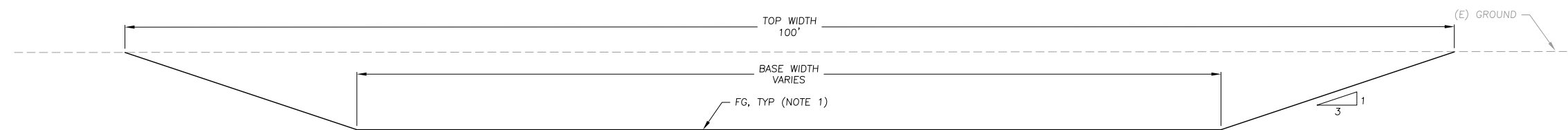
LEVEE REMOVAL SECTION B
SCALE: 1" = 5'



LEVEE REMOVAL SECTION C
SCALE: 1" = 5'



LEVEE REMOVAL SECTION D
SCALE: 1" = 5'



TYPICAL LEVEE REMOVAL PROFILE E
SCALE: 1" = 5'

- NOTES:**
1. FINISHED GRADE SHOWN FLAT FOR CLARITY. CONTRACTOR SHALL GRADE BREACH BOTTOM TO DRAIN.
 2. LEVEE DIMENSIONS SHOWN ARE APPROXIMATE AND TO BE VERIFIED BY CONTRACTOR PRIOR TO WORK.

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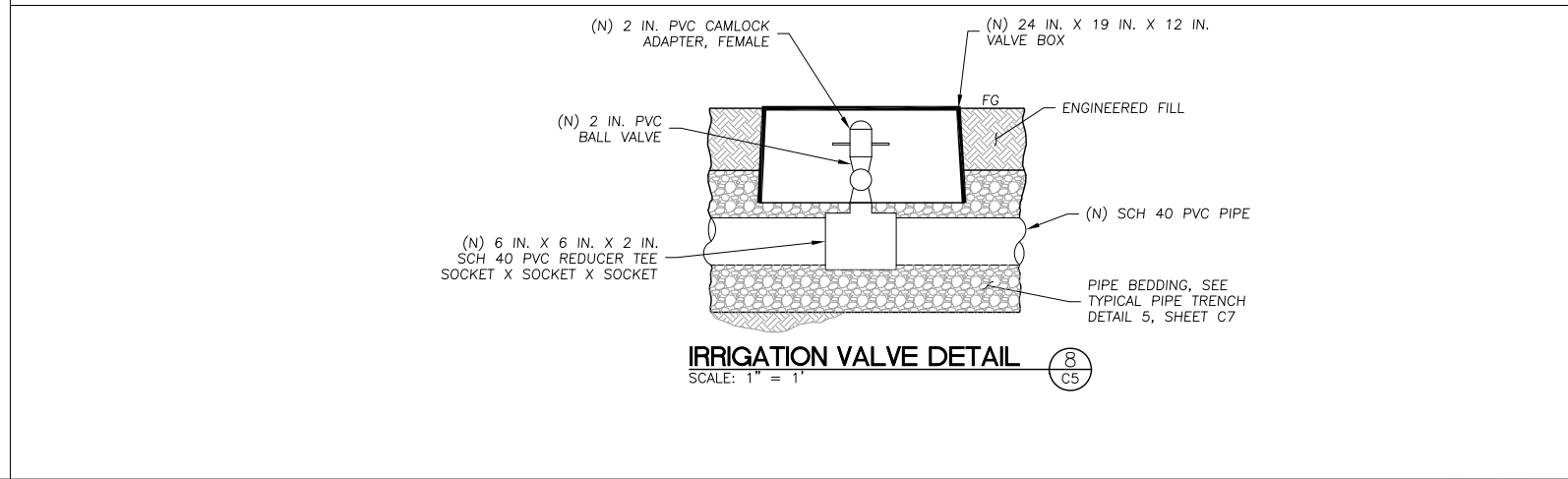
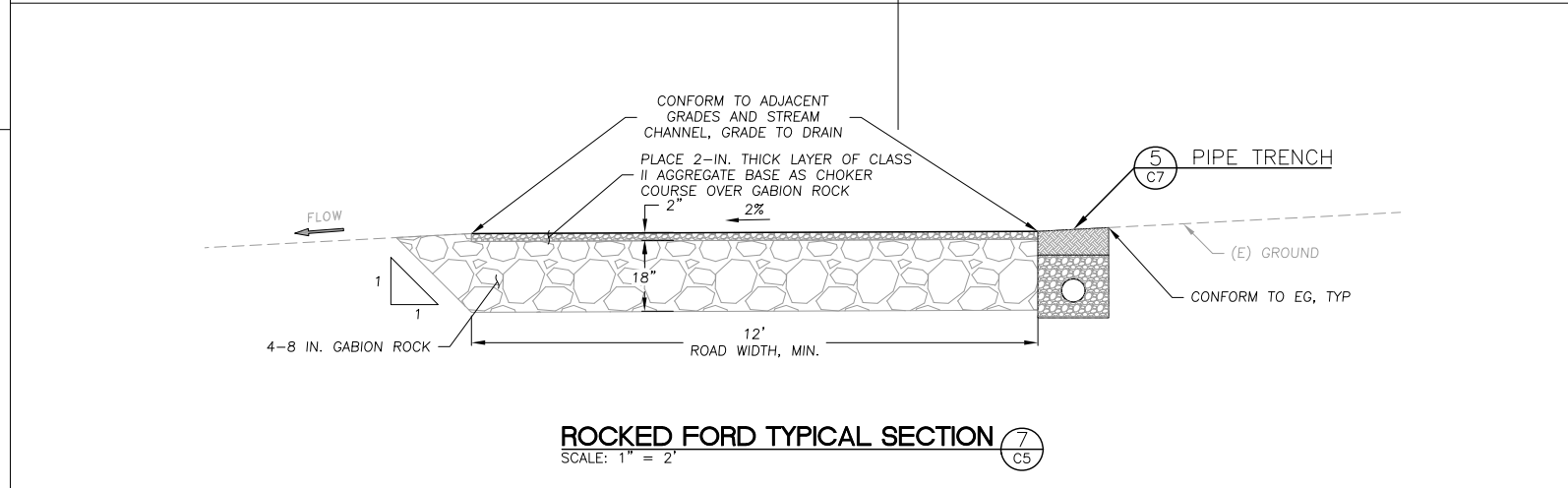
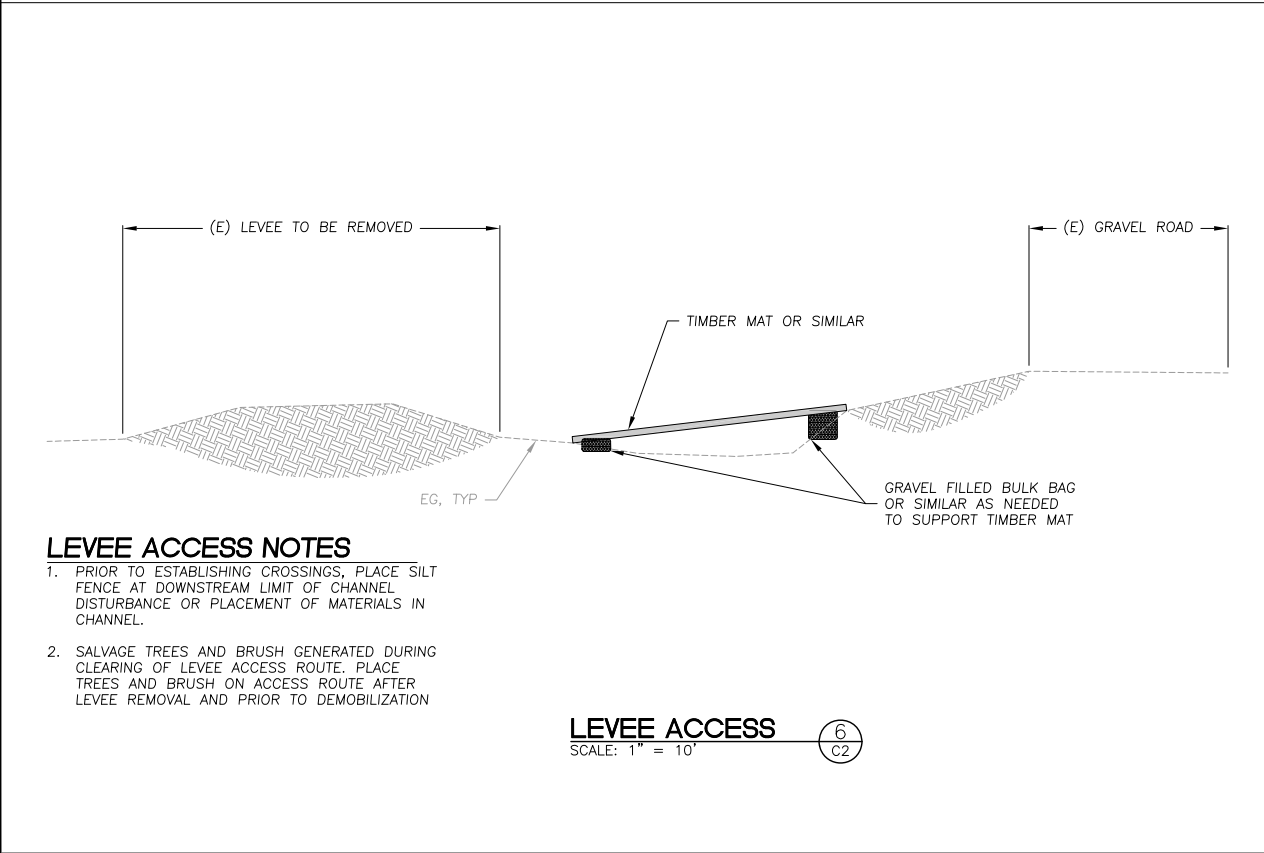
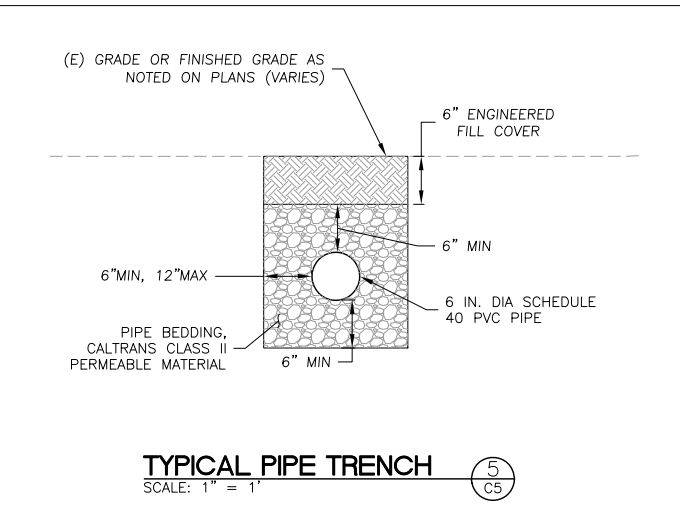
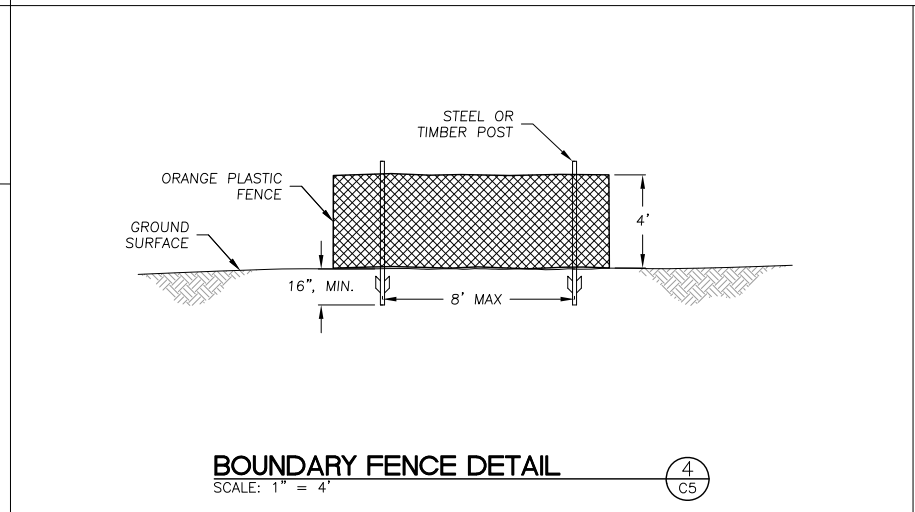
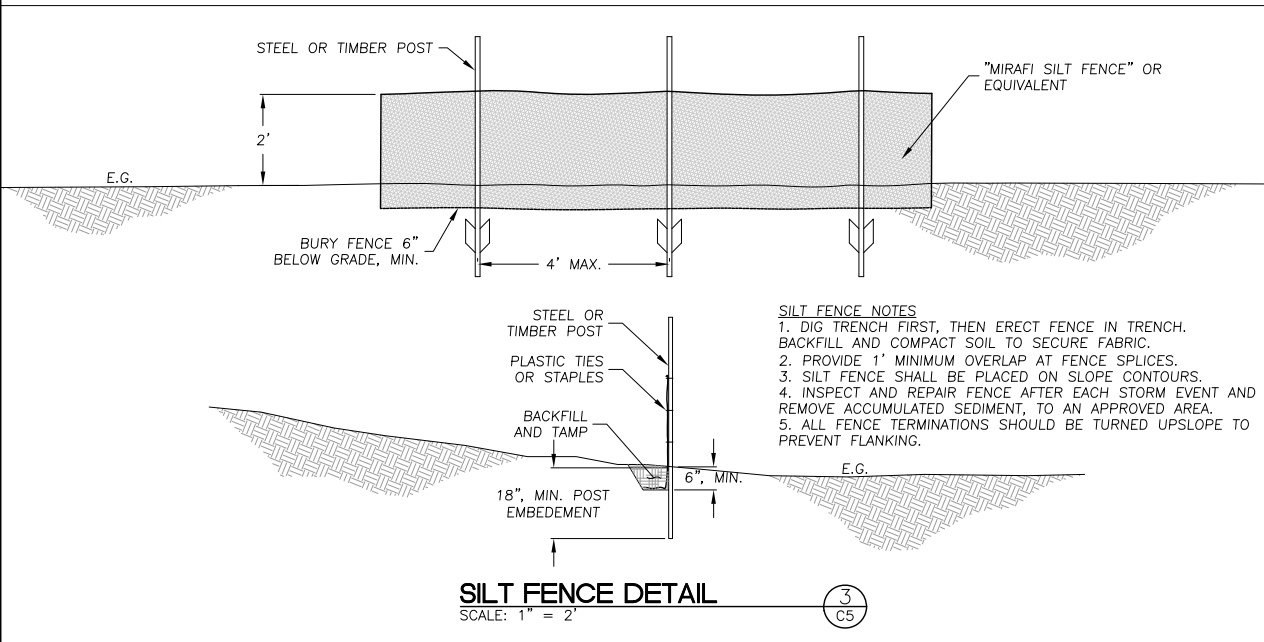
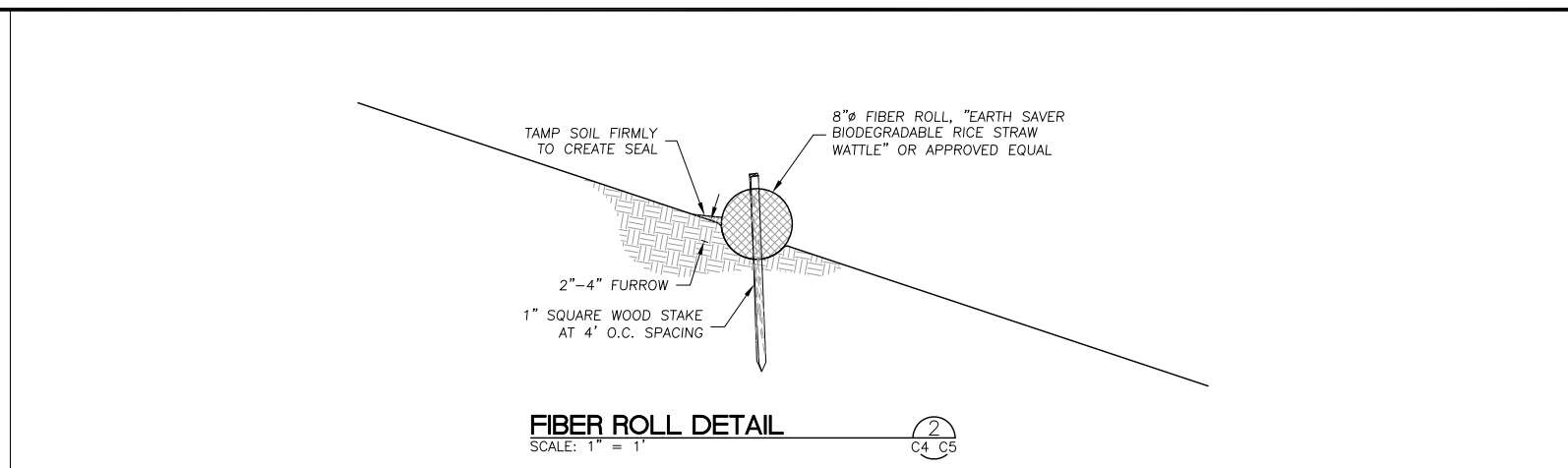
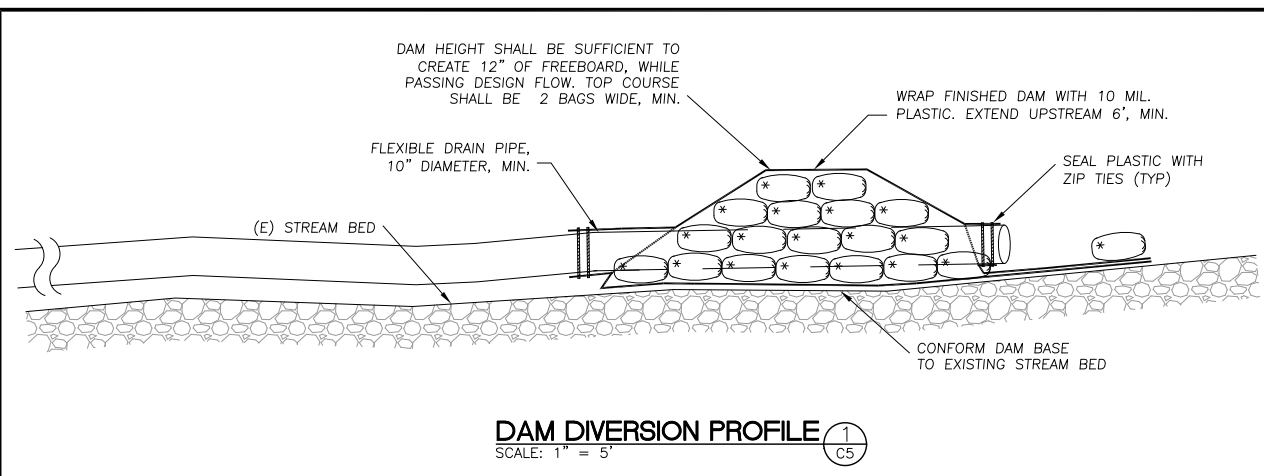
LEVEE BREACH GRADING PROFILE AND SECTIONS

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f:\engineering\16-073 los osos wetland\16-073 Levee Sections.DWG - 5/21/2021 9:01 AM



f:\engineering\16-073 los osos wetland\16-073 Details.DWG - 5/21/2021 9:02 AM

GENERAL NOTES

1. NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OR A DESIGNATED REPRESENTATIVE SHALL OBSERVE THE CONSTRUCTION PROCESS, AS NECESSARY TO ENSURE PROPER INSTALLATION PROCEDURES.
2. EXISTING UNDERGROUND UTILITY LOCATIONS:
 - A. CALL UNDERGROUND SERVICE ALERT (1-800-642-2444) TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCING CONSTRUCTION.
 - B. PRIOR TO BEGINNING WORK, CONTACT ALL UTILITIES COMPANIES WITH REGARD TO WORKING OVER, UNDER, OR AROUND EXISTING FACILITIES AND TO OBTAIN INFORMATION REGARDING RESTRICTIONS THAT ARE REQUIRED TO PREVENT DAMAGE TO THE FACILITIES.
 - C. EXISTING UTILITY LOCATIONS SHOWN ARE COMPILED FROM INFORMATION SUPPLIED BY THE APPROPRIATE UTILITY AGENCIES AND FROM FIELD MEASUREMENTS TO ABOVE GROUND FEATURES READILY VISIBLE AT THE TIME OF SURVEY. LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND DEPTH OF UNDERGROUND UTILITIES.
 - D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES, AND ALL OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.
 - E. PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION, DISCOVER OR VERIFY THE ACTUAL DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND POTHOLE THOSE AREAS WHERE POTENTIAL CONFLICTS ARE LIKELY OR DATA IS OTHERWISE INCOMPLETE.
 - F. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF REPAIR/REPLACEMENT OF ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
 - G. UPON LEARNING OF THE EXISTENCE AND/OR LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY BY TELEPHONE AND IN WRITING.
 - H. UTILITY RELOCATIONS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT FACILITIES WILL BE PERFORMED BY THE UTILITY COMPANY, UNLESS OTHERWISE NOTED.
3. IF DISCREPANCIES ARE DISCOVERED BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION.
5. ANY TESTS, INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REQUIRED TESTS AND INSPECTIONS ARE PERFORMED.
6. PROJECT SCHEDULE: PRIOR TO COMMENCEMENT OF WORK, SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A DETAILED CONSTRUCTION SCHEDULE. DO NOT BEGIN ANY CONSTRUCTION WORK UNTIL THE PROJECT SCHEDULE AND WORK PLAN IS APPROVED BY THE ENGINEER. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL. PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, PERMITTING, INSTALLATION, AND MAINTENANCE OF ANY AND ALL TRAFFIC CONTROL MEASURES DEEMED NECESSARY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL SAFETY DURING CONSTRUCTION. ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA IN THE CONSTRUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.
9. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL. NEITHER THE PROFESSIONAL ACTIVITIES OF CONSULTANT NOR THE PRESENCE OF CONSULTANT OR HIS OR HER EMPLOYEES OR SUB-CONSULTANTS AT A CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR AND ITS SUBCONTRACTORS OF THEIR RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPLICABLE HEALTH OR SAFETY REQUIREMENTS OF ANY REGULATORY AGENCY OR OF STATE LAW.
10. MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL AS-BUILT DEVIATIONS FROM THE CONSTRUCTION AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS, FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.
11. MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. STORE ALL MATERIALS WITHIN APPROVED STAGING AREAS.
12. PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLY WITH ALL APPLICABLE PERMIT CONDITIONS AND REQUIREMENTS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT, UNLESS OTHERWISE SPECIFIED.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL SURVEY MONUMENTS OR PROPERTY CORNERS. DISTURBED MONUMENTS SHALL BE RESTORED BACK TO THEIR ORIGINAL LOCATION AND SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR AT THE SOLE EXPENSE OF THE CONTRACTOR.
15. TREE DIMENSIONS: TRUNK DIAMETERS SHOWN REPRESENT DIAMETER AT BREAST HEIGHT (DBH), MEASURED IN INCHES. DBH IS MEASURED 4.5 FT ABOVE GROUND FOR SINGLE TRUNKS AND TRUNKS THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND. THE DBH FOR TREES THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND MAY BE CONSOLIDATED INTO A SINGLE DBH BY TAKING THE SQUARE ROOT OF THE SUM OF ALL SQUARED STEM DBH'S, UNLESS OTHERWISE NOTED. WHERE TREES FORK NEAR BREAST HEIGHT, TRUNK DIAMETER IS MEASURED AT THE NARROWEST PART OF THE MAIN STEM BELOW THE FORK. FOR TREES ON A SLOPE, BREAST HEIGHT IS REFERENCED FROM THE UPPER SIDE OF THE SLOPE. FOR LEANING TREES, BREAST HEIGHT IS MEASURED ON THE SIDE THAT THE TREE LEANS TOWARD. TREES WITH DBH LESS THAN 8" ARE TYPICALLY NOT SHOWN.

12"W = 12" DBH WILLOW
16. TREE SPECIES ARE IDENTIFIED WHEN KNOWN. HOWEVER, FINAL DETERMINATION SHOULD BE MADE BY A QUALIFIED BOTANIST. REFER TO THE LEGEND FOR TREE SPECIES SYMBOLS.
17. TREE TRUNK DIMENSIONS MAY BE SHOWN OUT-OF-SCALE FOR PLOTTING CLARITY. CAUTION SHOULD BE USED IN DESIGNING NEAR TREE TRUNKS. THERE ARE LIMITATIONS ON FIELD ACCURACY, DRAFTING ACCURACY, MEDIUM STRETCH AS WELL AS THE "SPREAD" OR "LEANING" OF TREES. REQUEST ADDITIONAL TOPOGRAPHIC DETAIL WHERE CLOSE TOLERANCES ARE ANTICIPATED. INDIVIDUAL TREES ARE NOT TYPICALLY LOCATED WITHIN DRIPLINE CANOPY AREAS SHOWN.
18. APPLY REMOVED WILLOWS TO DECOMMISSIONED ROAD AS SLASH.
19. ALL STANDARD STREET MONUMENTS, LOT CORNER PIPES, AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AND A RECORD OF SURVEY OR CORNER RECORD PER SECTION 8771 OF THE PROFESSIONAL LAND SURVEYORS ACT FILED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY SAN LUIS OBISPO COUNTY. COPIES OF ANY RECORD OF SURVEY OR CORNER RECORDS SHALL BE SUBMITTED TO THE CITY.
20. CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
21. CULTURAL RESOURCES: IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHALL CEASE WITHIN A 100-FOOT RADIUS, AND CONTACT SAN LUIS OBISPO COUNTY CORONER AT (805) 781-4540. THE CONTRACTOR SHALL BE AWARE OF ADHERE TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA.

EARTHWORK NOTES

1. GRADING SUMMARY:
 - TOTAL CUT VOLUME = - 2570 CY
 - TOTAL FILL VOLUME = - 2570 CY
 - OFFHAUL = - 0 CY

THE ABOVE QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES CALCULATED AS THE DIFFERENCE BETWEEN EXISTING GROUND AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING PURPOSES ONLY. EXISTING GROUND IS DEFINED BY THE TOPOGRAPHIC CONTOURS AND/OR SPOT ELEVATIONS ON THE PLAN. PROPOSED FINISH GRADE IS DEFINED AS THE DESIGN SURFACE ELEVATION OF WORK TO BE CONSTRUCTED. THE QUANTITIES HAVE NOT BEEN FACTORED TO INCLUDE ALLOWANCES FOR BULKING, CLEARING AND GRUBBING, SUBSIDENCE, SHRINKAGE, OVER EXCAVATION, AND RECOMPACTION, UNDERGROUND UTILITY AND SUBSTRUCTURE SPOILS AND CONSTRUCTION METHODS.

THE CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK ESTIMATE FOR THE PURPOSE OF PREPARING BID PRICES FOR EARTHWORK. THE BID PRICE SHALL INCLUDE COSTS FOR ANY NECESSARY IMPORT AND PLACEMENT OF EARTH MATERIALS OR THE EXPORT AND PROPER DISPOSAL OF EXCESS OR UNSUITABLE EARTH MATERIALS.

2. PRIOR TO COMMENCING WORK, PROTECT ALL SENSITIVE AREAS TO REMAIN UNDISTURBED WITH TEMPORARY FENCING, AS SHOWN ON THE DRAWINGS, AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER.
3. DO NOT DISTURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER. THE COST OF ALL ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND REVEGETATION OF DISTURBED AREAS OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE, AS SHOWN ON THE DRAWINGS, SHALL BE BORN SOLELY BY THE CONTRACTOR.
4. CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 19 OF THE STANDARD SPECIFICATIONS, THESE DRAWINGS, AND THE TECHNICAL SPECIFICATIONS.
5. PRIOR TO STARTING WORK ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE BY THE ENGINEER A HAZARDOUS MATERIALS CONTROLS AND SPILL PREVENTION PLAN. THE PLAN SHALL INCLUDE PROVISIONS FOR PREVENTING HAZARDOUS MATERIALS FROM CONTAMINATING SOIL OR ENTERING WATER COURSES, AND SHALL ESTABLISH A SPILL PREVENTION AND COUNTERMEASURE PLAN.
6. FINE GRADING ELEVATIONS, CONFORMS, AND SLOPES NOT CLEARLY SHOWN ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD TO DIRECT DRAINAGE TO PROTECTED DRAINAGE CONTROL STRUCTURES OR NATURAL WATERWAYS IN A MANNER THAT SUPPORTS THE INTENT OF THE DESIGN. ALL FINAL GRADING SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
7. FILL MATERIAL SHALL BE SPREAD IN LIFTS OF APPROXIMATELY 8 INCHES, MOISTENED OR DRIED TO NEAR OPTIMUM MOISTURE CONTENT AND RECOMPACTED. THE MATERIALS FOR ENGINEERED FILL SHALL BE APPROVED BY A REGISTERED CIVIL ENGINEER. ANY IMPORTED MATERIALS MUST BE APPROVED BEFORE BEING BROUGHT TO THE SITE. THE MATERIALS USED SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS.
8. ALL CONTACT SURFACES BETWEEN ORIGINAL GROUND AND RECOMPACTED FILL SHALL BE EITHER HORIZONTAL OR VERTICAL. ALL ORGANIC MATERIAL SHALL BE REMOVED AND THE REMAINING SURFACE SCARIFIED TO A DEPTH OF AT LEAST 12 INCHES, UNLESS DEEPER EXCAVATION IS REQUIRED BY THE ENGINEER.

DIVERSION NOTES

THE DIVERSION PLAN SHOWN IS SCHEMATIC. GENERAL REQUIREMENTS ARE PROVIDED BELOW. THE FULL REQUIREMENTS OF THE DIVERSION AND DEWATERING PLAN ARE SPECIFIED IN THE PROJECT TECHNICAL SPECIFICATIONS.

1. GENERAL
 - 1.1. DEWATER THE PROJECT SITE AS REQUIRED TO FACILITATE IN-STREAM CONSTRUCTION AND TO REDUCE THE POTENTIAL IMPACTS TO WATER QUALITY DOWNSTREAM OF THE PROJECT SITE.
 - 1.2. CONFIRM THAT A FAVORABLE LONG TERM WEATHER FORECAST (1 WEEK, MIN.) IS OBSERVED PRIOR TO PLACEMENT OF DIVERSION STRUCTURES.
 - 1.3. PRIOR TO PLACEMENT OF DIVERSION STRUCTURE, REMOVE FISH FROM THE PROJECT REACH, IN ACCORDANCE WITH SECTION 2.
 - 1.4. DIVERT FLOW ONLY WHEN THE DIVERSION CONSTRUCTION IS COMPLETE. FOLLOWING ENGINEER'S APPROVAL OF THE COMPLETED WORK, REMOVE DIVERSION BEGINNING AT THE DOWNSTREAM LIMIT, IN AN UPSTREAM DIRECTION.
 - 1.5. ALL IMPORTED MATERIALS USED DURING DIVERSIONS OR DEWATERING ACTIVITIES, SUCH AS SAND OR GRAVEL, SHALL BE FREE OF FINE SEDIMENTS AND WEED SEEDS.
2. AQUATIC ORGANISMS REMOVAL (N.I.C.)
 - 2.1. AQUATIC ORGANISMS SHALL BE REMOVED FROM THE PROJECT SITE BY A QUALIFIED FISHERIES BIOLOGIST, AUTHORIZED TO PERFORM SUCH ACTIVITIES BY THE NATIONAL MARINE FISHERIES SERVICE AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE.
 - 2.2. BLOCK-NETS SHALL BE PROVIDED AND INSTALLED BY THE FISHERIES BIOLOGIST. BLOCK-NETS SHALL BE MAINTAINED BY THE CONTRACTOR BOTH UPSTREAM AND DOWNSTREAM OF THE DIVERSION, THROUGHOUT THE PERIOD OF CONSTRUCTION. MAINTENANCE INCLUDES PERIODIC REMOVAL OF ACCUMULATED DEBRIS, AS NECESSARY TO ENSURE FUNCTION. BLOCK-NETS SHALL BE REMOVED BY THE FISHERIES BIOLOGIST AFTER THE DIVERSION IS REMOVED AND THE IN CHANNEL WORK AREA IS RE-WATERED.
3. DIVERSION SYSTEM
 - 3.1. INSTALL A TEMPORARY SANDBAG BERM AT THE UPSTREAM END OF THE PROJECT AREA AND CONVEY CREEK FLOW AROUND THE PROJECT VIA GRAVITY OR PUMPING. NO OTHER DIVERSION METHOD SHALL BE USED WITHOUT AUTHORIZATION OF THE ENGINEER. IF AN ALTERNATE DIVERSION METHOD IS PREFERRED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL, DETAILING THE DESIRED DIVERSION METHOD.
 - 3.2. THE DIVERSION STRUCTURE SHALL BE CONSTRUCTED AS SHOWN ON DETAIL 1, SHEET C7, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
 - 3.3. IN THE EVENT OF A SIGNIFICANT STORM, THE CONTRACTOR SHALL BE PREPARED TO TAKE NECESSARY MEASURES TO INSURE SAFE PASSAGE OF STORM WATER FLOW THROUGH THE PROJECT AREA, WITHOUT DAMAGE TO EXISTING STRUCTURES, OR INTRODUCTION OF EXCESSIVE SEDIMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY EROSION CONTROL B.M.P.'S.
 - 3.4. THE DIVERSION SHALL BE CAPABLE OF CONVEYING 900 GPM (2 CFS) WITH LESS THAN 6 INCHES OF HEAD OVER THE TOP OF PIPE AT THE INLET, AND SHALL BE A MINIMUM DIAMETER OF 12", WITH A MANNING'S ROUGHNESS NOT EXCEEDING .012.
4. DEWATERING OF CONSTRUCTION AREAS
 - 4.1. CONTRACTOR SHALL SUPPLY ALL NECESSARY PUMPS, PIPING, FILTERS, SHORING, AND OTHER TOOLS AND MATERIALS NECESSARY FOR DEWATERING.
 - 4.2. ANY DEWATERING ACTIVITIES WHICH MAY BE REQUIRED FOR CONSTRUCTION PURPOSES SHALL BE CONDUCTED IN A MANNER WHICH DOES NOT VIOLATE ANY WATER QUALITY STANDARDS ESTABLISHED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.
 - 4.3. DISCHARGE OF WATER FROM THE DEWATERED CONSTRUCTION SITE, EITHER BY GRAVITY OR PUMPING, SHALL BE PERFORMED IN A MANNER THAT PREVENTS EXCESSIVE TURBIDITY FROM ENTERING THE RECEIVING WATERWAYS AND PREVENTS SCOUR AND EROSION OUTSIDE OF THE CONSTRUCTION SITE. PUMPED WATER SHOULD BE PRE-FILTERED WITH SAND/GRAVEL PACK AROUND SUMPS FOR SUBSURFACE FLOWS AND A SILT FENCE OR HAY BALES AROUND PUMPS FOR SURFACE FLOW. PUMPED WATER SHALL BE DISCHARGED INTO ISOLATED LOCAL DEPRESSIONS, FILTER BAGS, SETTLING (BAKER) TANKS, OR TEMPORARY SEDIMENT BASINS, AS NECESSARY TO MEET WATER QUALITY REQUIREMENTS. WHERE WATER TO BE DISCHARGED INTO THE CREEK WILL CREATE EXCESSIVE TURBIDITY, THE WATER SHALL BE ROUTED THROUGH A SEDIMENT INTERCEPTOR OR OTHER FACILITIES TO REMOVE SEDIMENT FROM WATER.
5. STREAM CROSSING
 - 5.1. CROSS STREAM AT 90 DEGREE ANGLE OR AS CLOSE TO PERPENDICULARLY AS PRACTICABLE.
 - 5.2. STREAM CROSSING MAY CONSIST OF A TEMPORARY BRIDGE CONSTRUCTED FROM BULK BAGS AND TIMBER MATS OR STEEL PLATE. MINIMIZE DISTURBANCE TO EXISTING WATERWAY.
 - 5.3. CONTRACTOR SHALL SUBMIT A STREAM CROSSING PLAN TO THE ENGINEER FOR REVIEW AND ACCEPTANCE. STREAM CROSSING PLAN SHALL DEPICT CROSSING LOCATIONS AND PROVIDE ANNOTATED ILLUSTRATIONS OF PROPOSED STREAM CROSSING MATERIALS.
 - 5.4. A QUALIFIED BIOLOGIST SHALL SUPERVISE PLACEMENT OF MATERIALS IN THE CREEK AND SHALL REMOVE AQUATIC ORGANISMS FROM THE CREEK PRIOR TO PLACEMENT OF MATERIALS IN THE CREEK.



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COASTAL SAN LUIS
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GENERAL
NOTES

LOS OSOS WETLAND
ENHANCEMENT
95% DESIGN SUBMITTAL

DESIGNED BY: J.H./B.T.
DRAWN BY: M.M.
CHECKED BY: M.W.W.
DATE: 5/21/2021
JOB NO.: 16-073

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS