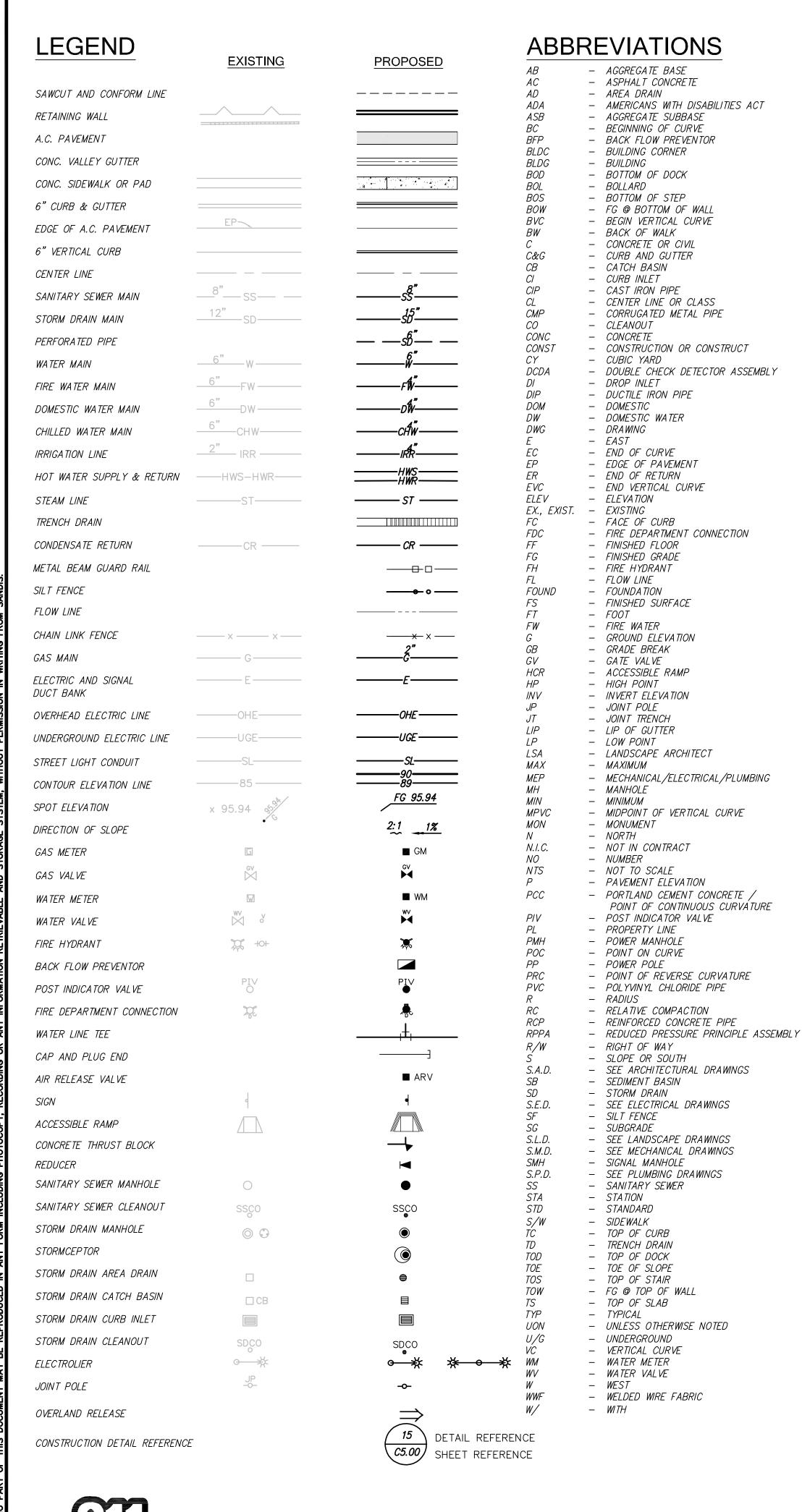
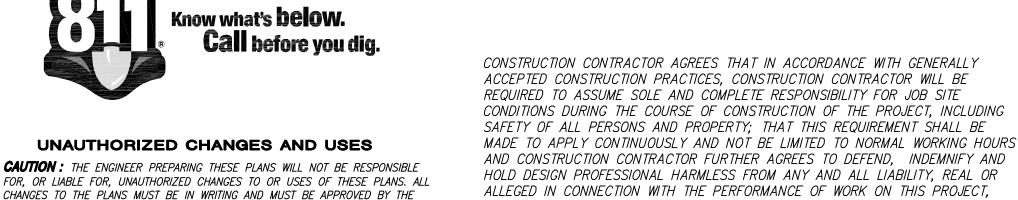
HILLSIDE EROSION RESTORATION

3000 CAMPUS HILL DR, LIVERMORE, CA









SURVEY NOTES

- 1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF 2. DATES OF FIELD SURVEY: 08/09/2023
- 3. COORDINATES, BEARINGS, AND DISTANCES SHOWN ARE BASED ON AN ASSUMED COORDINATE SYSTEM. SEE SURVEY CONTROL TABLE BELOW FOR PROJECT COORDINATES. THE VERTICAL DATUM FOR THE SURVEY IS BASED ON LAS POSITAS COLLEGE BENCHMARK NO. 22 - 3/4" IRON PIPE WITH PLUG ON THE SOUTH SIDE OF THE LOOP ROAD, APPROX. 1100' FROM THE WEST ENTRY TO THE CAMPUS FROM COLLIER CANYON ROAD.

ELEVATION = 466.71

SURVEY CONTROL TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	544.08'	13183.80'	13290.31'	CUT X
2	538.60'	13122.23'	13795.66	HUB & TACK
7	570 O4'	17100 E /'	17570 70'	LILID & TACK

GENERAL SITE NOTES

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
- 2. ALL WORK ON-SITE AND IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
- 3. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- 4. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE CLIENT, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CLIENT OR THE CONSULTING ENGINEER.

GENERAL UTILITY NOTES

- 1. ALL TRENCHES SHALL BE BACK FILLED PER THE GEOTECHNICAL REPORT OR UTILITY OWNERS STANDARD DETAILS AND SPECIFICATIONS.
- 2. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
- 3. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CLIENT, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED: NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

SOILS REPORT

PROJECT HAS BEEN BASED UPON THE GEOTECHNICAL EVALUATION & GEOLOGIC HAZARDS ASSESSMENT DEVELOPED BY THE ADJACENT VITICULATURE FACILITY PROJECT, PROVIDED IN THE NINYO & MOORE GEOTECHNICAL EXPLORATION REPORT DATED 01/14/21. SUPPLEMENTAL RECOMMENDATIONS WERE PROVIDED BY ROCKRIDGE GEOTECHNICAL. ALL WORK SHOULD BE DONE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS.

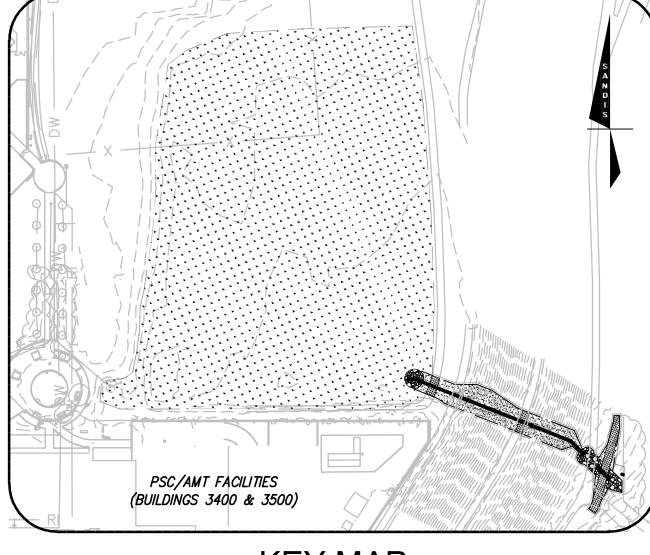
DEMOLITION NOTES

- 1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS
- 2. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT. GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION
- 5. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 6. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL. STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
- 7. PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTED. REPLACE ANY DAMAGED UTILITY TO REMAIN TO KEEP OPERABLE DURING CONSTRUCTION.
- 8. ALL UTILITY SHUT DOWNS ARE TO BE AVOIDED. IF SHUT DOWNS ARE NECESSARY, CONTRACTOR TO COORDINATE SHUT DOWN WITH UTILITY OWNER WITH 48 HOUR
- 9. SECURE ALL REQUIRE PERMITS OR CERTIFICATES FOR DEMOLITION OR DISCONTINUANCE OF UTILITIES, PRIOR TO BEGINNING THE WORK.

DUST CONTROL NOTES

- 1. WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR IN ORDER TO INSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE
- 2. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR, OR TO THE SATISFACTION OF THE CHABOT-LAS POSITAS COLLEGE DISTRICT STANDARDS.
- 3. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS.
- 4. WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.
- 5. THE CONTRACTOR SHALL DEMONSTRATE DUST SUPPRESSION MEASURES, SUCH AS REGULAR WATERING, WHICH SHALL BE IMPLEMENTED TO REDUCE EMISSIONS DURING CONSTRUCTION AND GRADING IN A MANNER MEETING THE APPROVAL OF THE CONSTRUCTION MANAGER. THIS SHALL ASSIST IN REDUCING SHORT—TERM IMPACTS FROM PARTICLES WHICH COULD RESULT IN NUISANCES THAT ARE PROHIBITED BY RULE 403 (FUGITIVE DUST).
- 6. GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH THE PROJECT SWPPP (IF ONE EXISTS) OR AS APPLICABLE PER LOCAL REGULATIONS AT ALL TIMES. THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THAT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST, THE CLIENT RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.

CALIFORNIA



KEY MAP

CONTACT INFO

CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT CONTACT PERSON: ANN KROLL 3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551 E: AKROLL@CLPCCD.ORG PH: 510.514.1369 <u>CIVIL ENGINEER:</u> CONTACT PERSON: BRIAN CANCIMILLA 636 9TH STREET OAKLAND, CA 94607

E: BCANCIMILLA@SANDIS.NET

PH: 510.873.8866

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE DEVELOPMENT OF A VACANT FIELD WITHIN THE NORTHEAST PORTION OF THE CAMPUS THAT HAS EXPERIENCED SIGNIFICANT STORMWATER PONDING AND HILLSIDE EROSION AS A RESULT OF THE RECENT STORM EVENTS. THE PROJECT WILL INSTALL A NEW STORM DRAIN CATCH BASIN AND PIPES CONVEYING RUNOFF TO THE BOTTOM OF THE SLOPE, RESTORE AND STABILIZE THE ERODED HILLSIDE AND REBUILD BENCHES AND GRAVEL PATHWAYS. THE DRAINAGE BASIN BELOW WILL BE PROTECTED USING ROCK SLOPE PROTECTION.

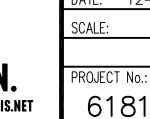
SHEET INDEX

- CO.O COVER SHEET, CONSTRUCTION NOTES, AND ABBREVIATIONS
- C1.0 EXISTING CONDITIONS PLAN C2.0 HORIZONTAL CONTROL PLAN
- C3.0 GRADING AND DRAINAGE PLAN
- C3.1 ROUGH GRADING PLAN
- C3.2 CUT AND FILL MAP
- C4.0 CONSTRUCTION DETAILS
- C5.0 SEDIMENT AND EROSION CONTROL PLAN C5.1 SEDIMENT AND EROSION CONTROL PLAN

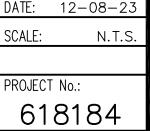


PREPARER OF THE PLANS.

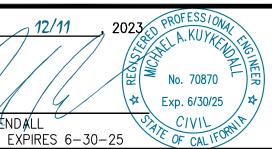




EXCEPTING LIABILITY ARISING FROM SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.







POLLUTION.

CONSTRUCTION NOTES

STANDARD SPECIFICATIONS (2015).

AIRBORNE PARTICULATES (DUST).

OR ATTACHED HERETO.

CONSTRUCTION PERIOD.

AND LANDSCAPING.

BEGINNING CONSTRUCTION FOR ANY WORK.

GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.

SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.

WASH WATER INTO THE STREET GUTTERS OR DRAINS.

MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

ALL TIMES DURING CONSTRUCTION.

STREETS WILL NOT BE PERMITTED.

STREET, GUTTER OR STORM DRAIN.

AMBULANCE, POLICE, AND FIRE DEPARTMENTS.

EXCAVATION PERMIT SPECIFIES OTHERWISE.

. ALL ON-SITE CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE WITH

ALAMEDA STANDARD PLANS AND SPECIFICATIONS, AMERICAN CONCRETE INSTITUTE,

AMERICAN SOCIETY FOR TESTING AND MATERIALS, STATE OF CALIFORNIA

CONSTRUCTION SAFETY ORDERS, CALIFORNIA CODE OF REGULATIONS, CITY OF

LIVERMORE STANDARD PLANS & SPECIFICATIONS, AND THE LATEST CALTRANS

2. CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR

3. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS

PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN

4. UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT

FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES

5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE AND

DISTRICT FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK

ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.

MARK, AND PROTECT ALL UNDERGROUND FACILITIES. CONTRACTOR TO CONTACT

6. THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT

7. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE

STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR

8. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON

9. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL

10. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR

11. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT,

14. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY AND CAMPUS

IMPROVEMENTS OF UNDERGROUND AND ABOVE GROUND FACILITIES DAMAGED DURING

THE CONSTRUCTION PERIOD, INCLUDING BUT NOT LIMITED TO FLAT WORK, SITE WORK,

EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO

13. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT

15. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF

16. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A

CEMENT BAGS, PAINTS, FLAMMABLE, OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER

MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN

18. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A DAILY BASIS AND PLACED IN

A DUMPSTER PROVIDED BY THE CONTRACTOR WHICH IS EMPTIED OR REMOVED

WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT

19. ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH

20. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE

21. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE CALTRANS CLASS 2 WITH A

A TARP OR OTHER DEVICE TO CONTAIN DEBRIS. TARP SHALL BE SECURED IN SUCH

A WAY THAT PREVENTS REMOVAL OR DAMAGE OF MATERIAL DUE TO ENVIRONMENTAL

REVISION

FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER

17. A CONTAINED AND COVERED AREA ON-SITE SHALL BE USED FOR STORAGE OF

OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE

BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

AND DEBRIS FROM CITY STREETS AND CAMPUS STREETS AND PARKING LOT THAT

IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH

THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE CITY NOR THE DESIGN

PROFESSIONAL ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND

IHE LATEST EDITION OF THE AMERICAN NATIONAL STANDARDS INSTITUTE, COUNTY OF

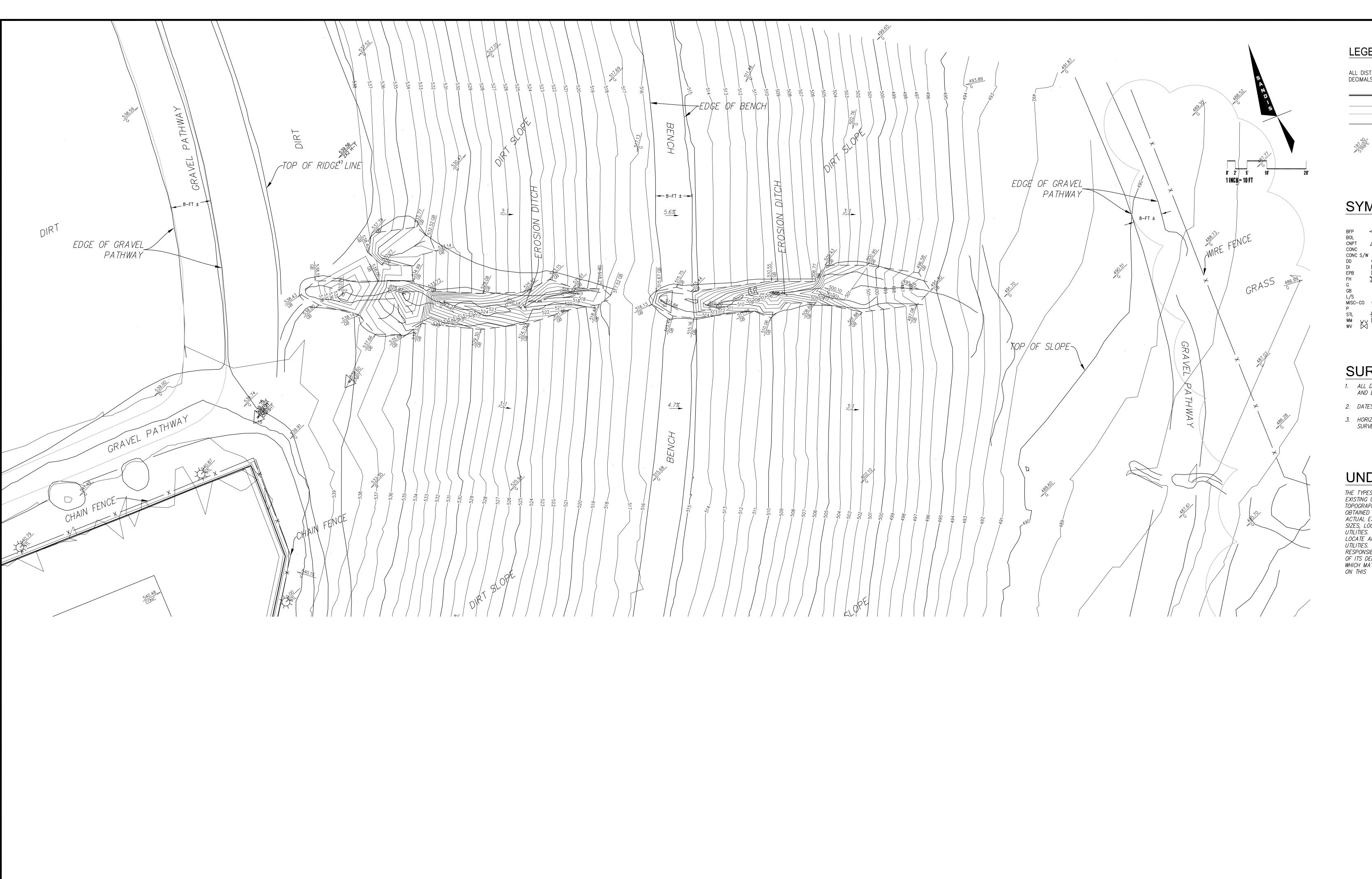
LIVERMORE

| DATE |

HILLSIDE EROSION RESTORATION

COVER SHEET, CONSTRUCTION NOTES, AND **ABBREVIATIONS**

SHEET



LEGEND ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.

SYMBOLS & ABBREVIATIONS

BACK FLOW PREVENTOR CONTROL POINT GRADE BREAK LANDSCAPE MISCELLANEOUS CLEANOUT STREET LIGHT LAMP NO ARM WATER METER WATER VALVE

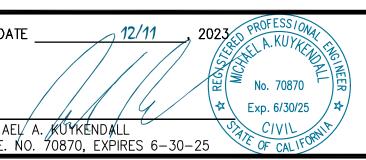
SURVEY NOTES

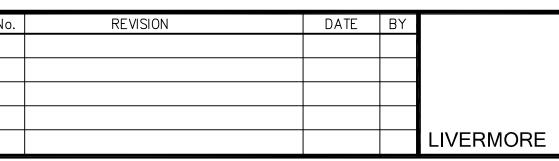
- 1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
- 2. DATES OF FIELD SURVEY: 08/08/2023.
- 3. HORIZONTAL AND VERTICAL CONTROL FOR THIS SURVEY ARE ON AN ASSUMED BASIS.

UNDERGROUND UTILITY NOTE

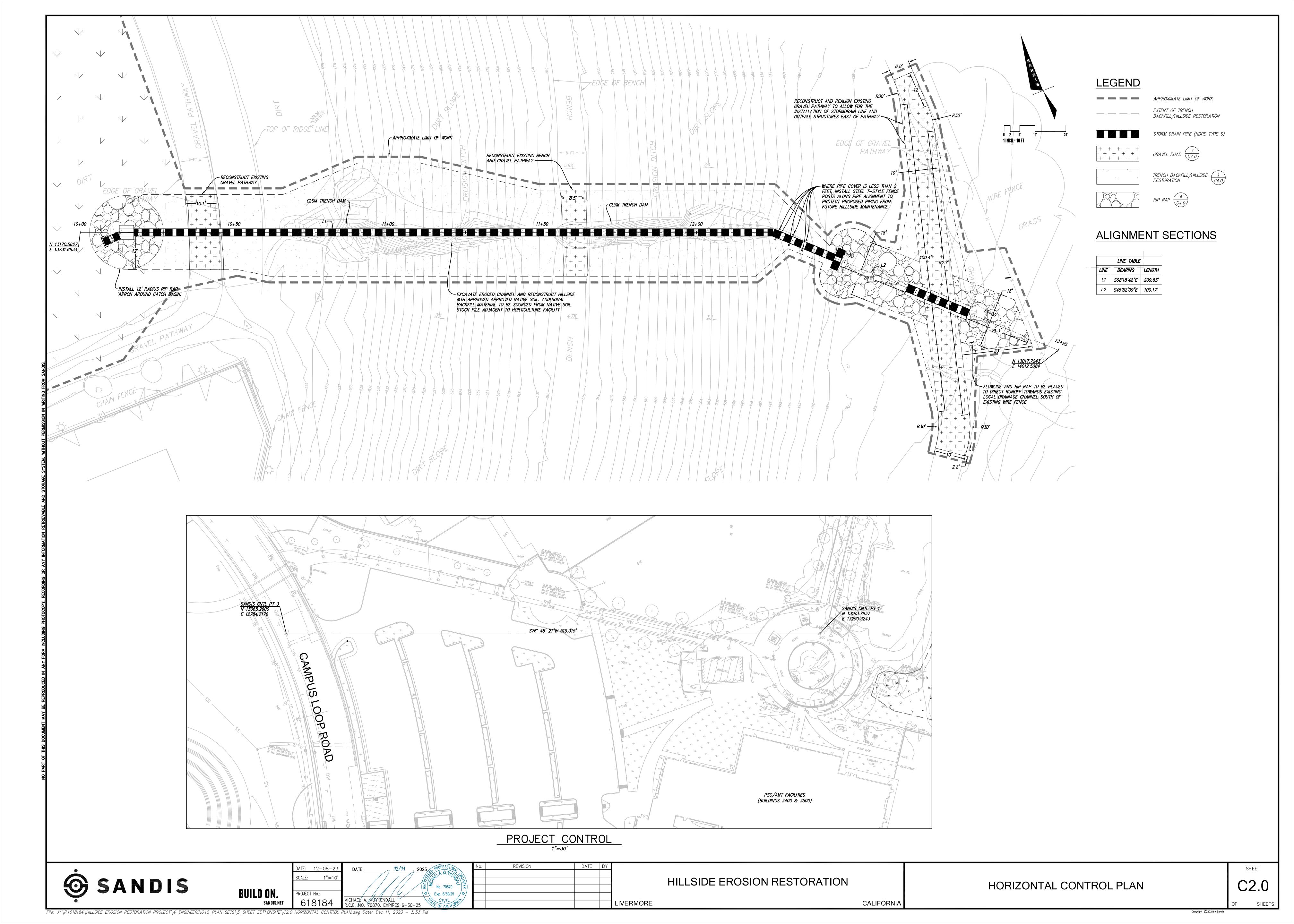
EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS
TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE
OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY
ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT,
SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND
UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO
LOCATE AND DELINEATE ALL KNOWN UNDERGROUND LOCATE AND DELINEATE ALL KNOWN UNDERGROUND
UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO
RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY
OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES
WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN
ON THIS SURVEY.

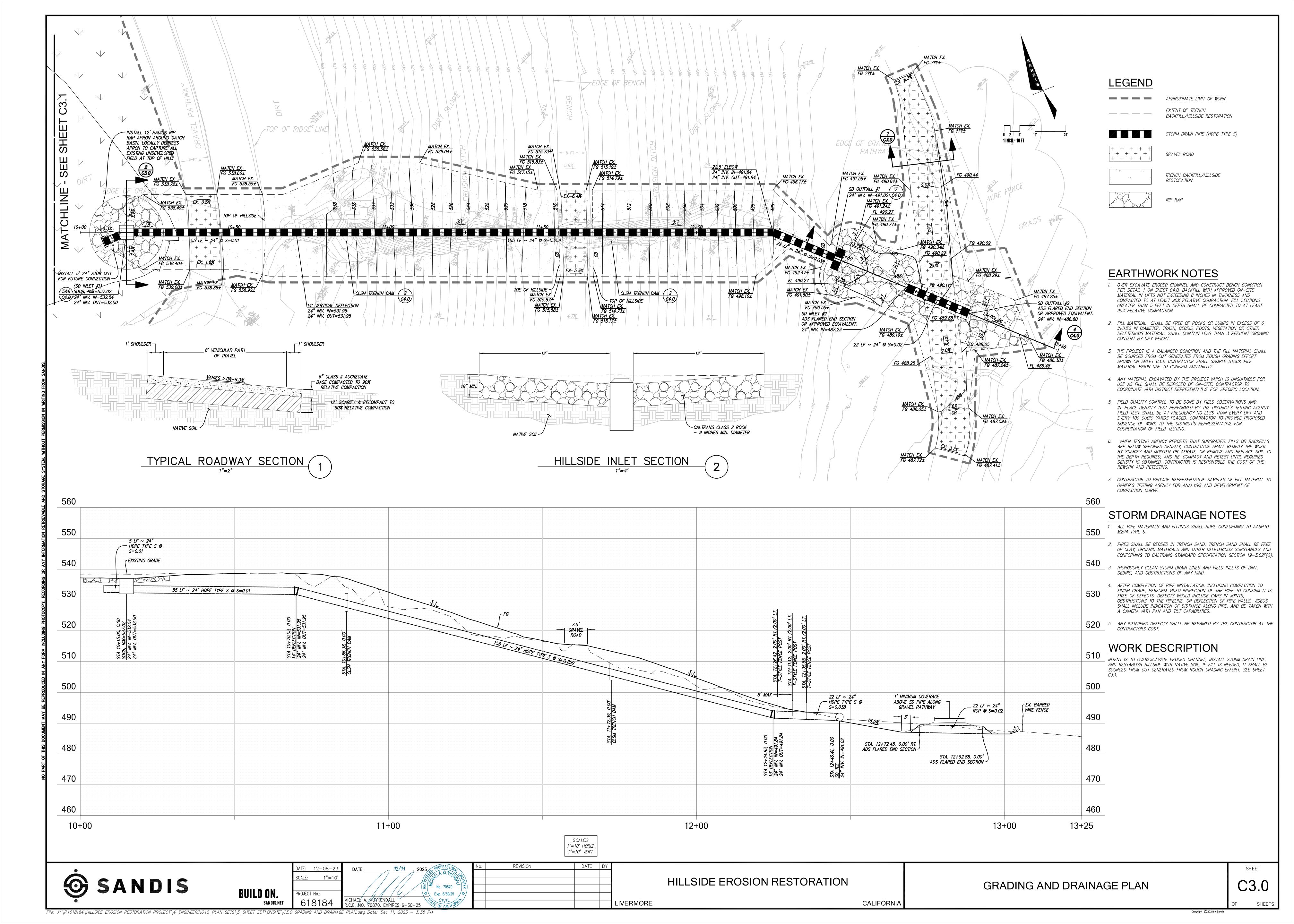


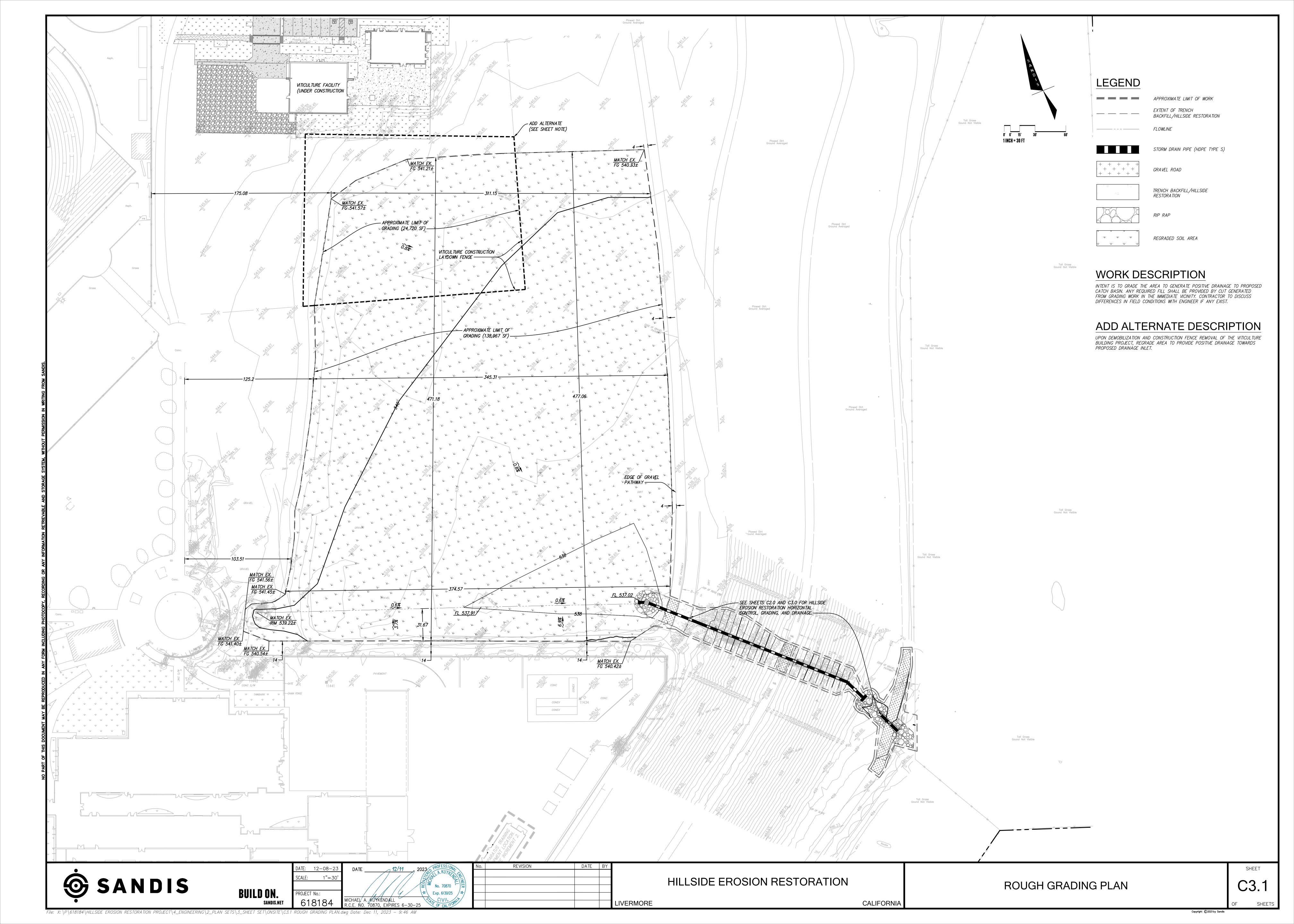




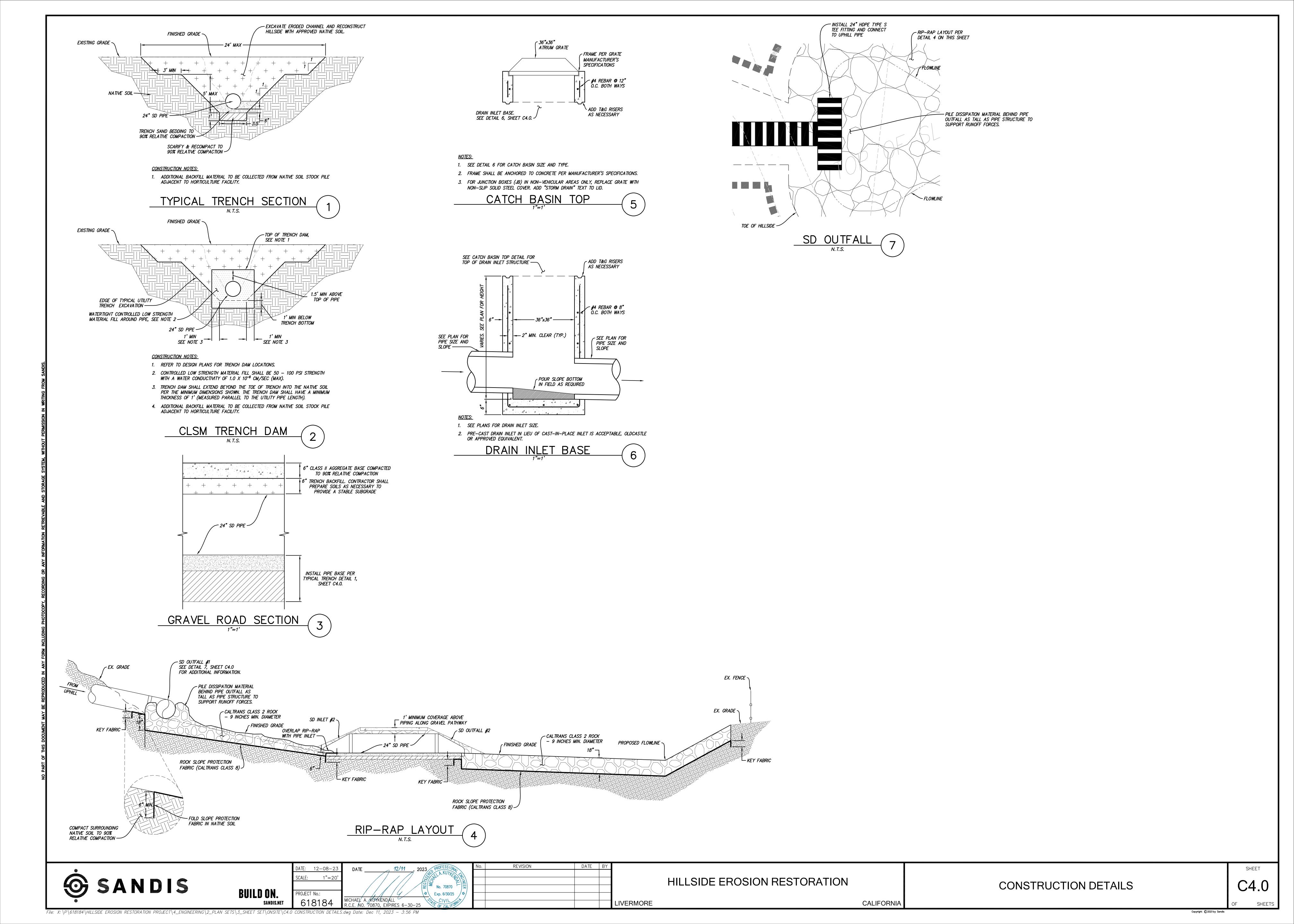
CALIFORNIA

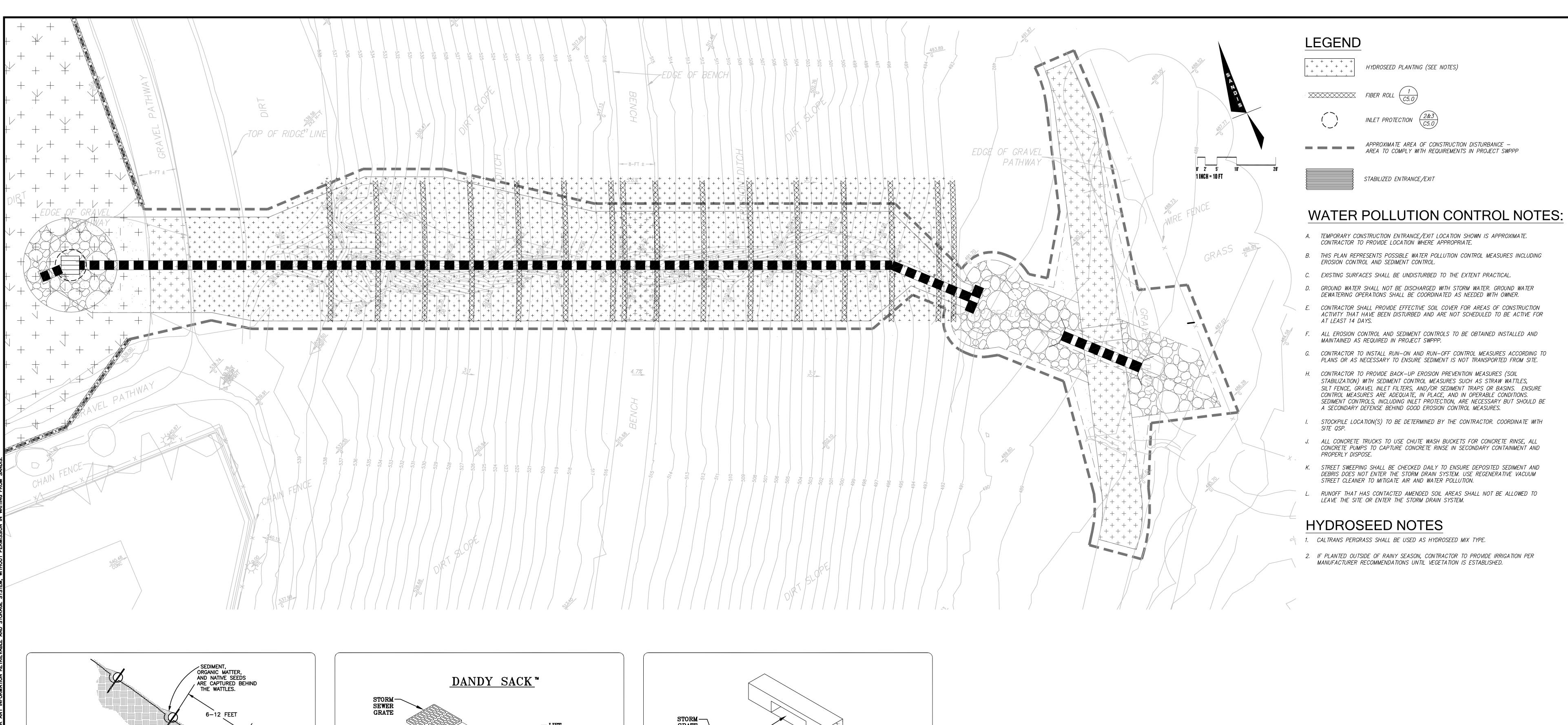


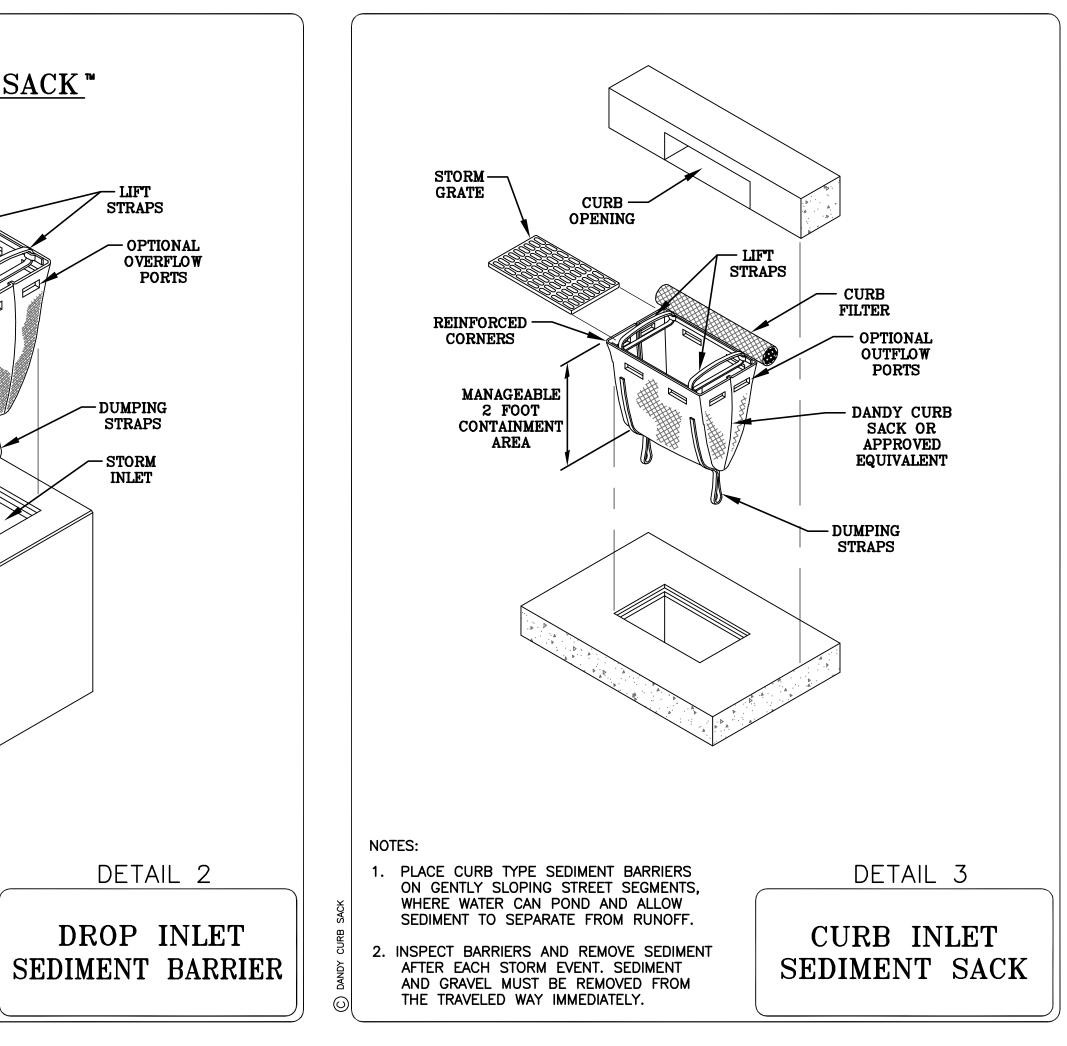












LIVERMORE



STRAW WATTLES ARE TUBES MADE FROM STRAW BOUND NETTING. THEY ARE APPROX.

8" DIA. AND 20 - 30 FT. LONG.

2. STRAW WATTLES TRAP SEDIMENT AND

ESTABLISHMENT.

REDUCE SHEET & RILL EROSION BY

3. STRAW WATTLE INSTALLATION REQUIRES THE

ON CONTOUR. RUNOFF MUST NOT BE

ALLOWED TO RUN UNDER OR AROUND WATTLE.

REDUCING SLOPE GRADIENT, INCREASING

INFILTRATION RATES AND BY PRODUCING A FAVORABLE ENVIRONMENT FOR PLANT

PLACEMENT AND SECURE STAKING OF THE

WATTLE IN A TRENCH, 3" - 5" DEEP, DUG



ADJACENT ROLLS SHALL

DETAIL 1

STRAW

WATTLES

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE

2. EXCAVATE A BASIN OF SUFFICIENT SIZE

3. THE TOP OF THE STRUCTURE (PONDING

FROM BY- PASSING THE INLET. A

HEIGHT) MUST BE WELL BELOW THE GROUND

ELEVATION DOWNSLOPE TO PREVENT RUNOFF

TEMPORARY DIKE MAY BE NECESSARY ON

THE DOWNSLOPE SIDE OF THE STRUCTURE.

ADJACENT TO THE DROP INLET.

AREAS. (LESS THAN 5%)

REINFORCED -CORNERS

MANAGEABLE

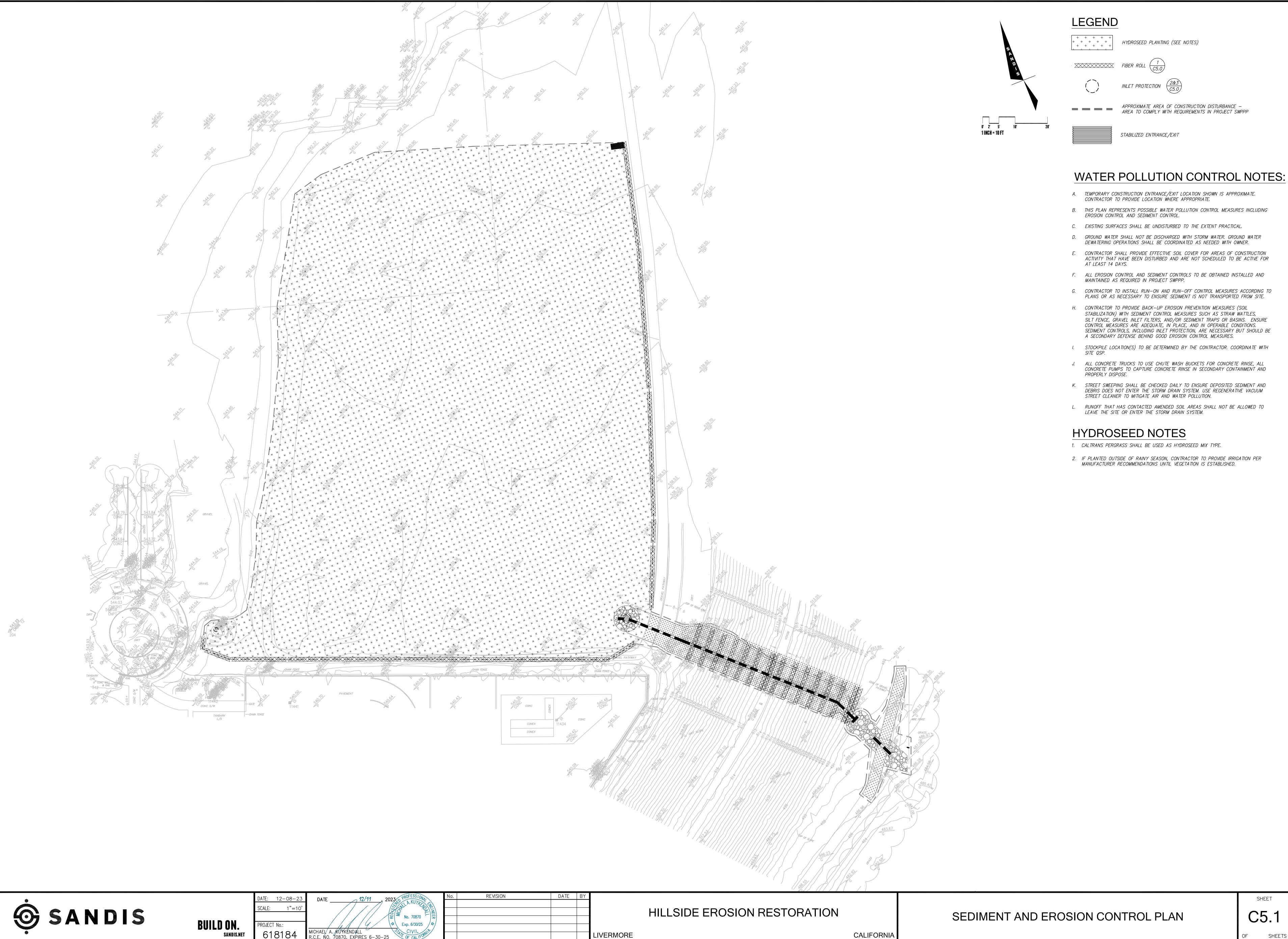
2 FOOT CONTAINMENT

OVERFLOW

-DUMPING STRAPS

DETAIL 2

CALIFORNIA



C5.1