

## EROSION CONTROL

- GRADED AREAS ADJACENT TO THE SITE PERIMETER MUST DRAIN AWAY FROM TOP OF GRADE TO PREVENT UNDESIRABLE CONCENTRATION DRAINAGES AND THE RECOMBINATION OF THE DUST CONTROL MEASURES LISTED BELOW.
- STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES. THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORM WATER FROM THE PROJECT SITE AT ALL TIMES.
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE REMOVED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW SWALES, AREA DRAINS, NATURAL DRAINAGE CORSEES, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FILES, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE MAINTAINED IN A MANNER THAT PREVENTS LEAKS, SPILLS, AND DISCHARGE OF IN A PROPER MANNER. SPILLS MUST NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED DOWN BY RAIN OR OTHER AGENTS.
- ANY SLOPES WITH DISTURBED SOILS OR DEPLETED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS ENHENT.
- STOCKPILED MATERIALS SHALL BE PLACED TO BE ACCESSIBLE BY VEHICLE DURING PERIODS OF PRECIPITATION AND PROTECTED FROM PRECIPITATION AND RUMOR AT THE END OF EACH WORKING DAY.
- THE PERMIT AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- INSURANCE OF A GRADING PERMIT DOES NOT ELIMINATE THE NEED FOR PERMITS FROM OTHER AGENCIES WITH REGULATORY RESPONSIBILITIES FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK AUTHORIZED ON THIS PLAN.
- EROSION CONTROL MEASURES AND PLANTINGS SHALL BE INSTALLED AND MAINTAINED AS SOON AS PRACTICAL IN AREAS NOT SUBJECT TO RECURRENT INBAKING.



## GRADING NOTES

- ALL GRADING SHALL CONFORM TO SANTA BARBARA COUNTY CODE CHAPTER 14 AND STANDARDS AND SPECIFICATIONS FOR THE CONSTRUCTION OF HIGHWAYS AND THE RECOMMENDATIONS OF THE CIVIL ENGINEER AND ENGINEERING GEOLOGIST.
- CONTRACTOR TO NOTIFY THE COUNTY GRADING INSPECTOR AND SOILS LABORATORY AT LEAST 48 HOURS BEFORE START OF GRADING WORK OR ANY PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT AND METHODS REQUIRED TO PREVENT THE OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO ADJACENT PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY DUST FROM THE GRADING OPERATION.
- BEFORE BEGINNING WORK, REQUIRE EXPOSING OR IMPROVING OF MATERIALS, THE CONTRACTOR SHALL REMOVE ALL EXISTING ROAD SURF AND ALL EXISTING UTILITY STRUCTURES SHALL BE PROTECTED BY MOUNTING THEM TO SOLID FORMS (WOOD, CONCRETE OR METAL) AND INSPECTORS SHALL MONITOR THIS REQUIREMENT WITH THE CONTRACTOR.
- THE GEOTECHNICAL ENGINEER SHALL PROVIDE OBSERVATION AND TESTING DURING GRADING OPERATIONS IN THE FIELD AND SHALL SUBMIT A FINAL REPORT STATING THAT ALL EARTH WORK WAS PROPERLY COMPLETED AND IS IN SUBSTANTIAL CONFORMANCE WITH THE REQUIREMENTS OF THE GRADING ORDINANCE.
- AREAS TO BE GRADED SHALL BE CLEARED OF ALL VEGETATION INCLUDING ROOTS AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURAL FILL, THEN SCAFFERD TO A DEPTH OF 6" PRIOR TO PLACING OF ANY FILL. CALL GRADING INSPECTOR FOR INITIAL INSPECTION.
- A THOROUGH SEARCH SHALL BE MADE FOR ALL ABANDONED MANHOLE FACILITIES SUCH AS SEPTIC TANK SHALL BE REMOVED AND THE DEPRESSION PROPERLY FILLED AND COMPACTED UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER.
- FILL MATERIAL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 6" IN COMPACTED THICKNESS, MOISTENED OR DRIED AS NECESSARY TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED BY AN APPROVED METHOD. FILL DENSITY SHALL BE DETERMINED BY A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY 1997 ASTM D 1557 - 97. COMPACTED PROCTOR METHOD TESTS SHALL BE APPROVED METHODS. SOME FILL AREAS MAY REQUIRE SPECIAL TREATMENT TO ACHIEVE THE REQUIRED DENSITY. ALL FILL SHALL BE MOISTENED TO A MINIMUM OF 10% MOISTURE CONTENT. INSPECTORS SHALL MONITOR THIS REQUIREMENT AT NOT LESS THAN ONE TEST FOR EACH 18' OF FILL AND/OR FOR EACH 500 CUBIC YARDS OF FILL PLACED.
- CUT SLOPES SHALL NOT EXCEED A GRADE OF 1 1/2 HORIZONTAL TO 1 VERTICAL. FILL AND COMBINATION FILL AND CUT SLOPES SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL.
- IF GRADING OCCURS DURING NOV. 1 THROUGH APR. 15, NO GRADING SHALL OCCUR UNLESS APPROVED EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. DISCHARGES OF SEDIMENT FROM THE PROJECT SITE MAY RESULT IN A STOP WORK ORDER.
- YOUR ATTENTION IS DIRECTED TO THE PRESENCE OF EXISTING UTILITIES BOTH ABOVE AND BELOW GROUND. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO THE ATTENTION OF THE ENGINEER.

## DIRT QUANTITIES

EXCAVATION: 25.0 CT · IMPORT: 28.0 CT · FILL: 44.0 CT

## STANDARD DUST CONTROL REQUIREMENTS

- DUST GENERATED BY THE DEVELOPMENT ACTIVITIES SHALL BE REMOVED ON-SITE AND KEPT TO A MINIMUM BY FOLLOWING THE DUST CONTROL MEASURES LISTED BELOW. RECLAIMED WATER SHALL BE USED WHENEVER POSSIBLE.
- DURING CLEARING, GRADING, EARTH MOVING OR EXCAVATION, WATER TRUCKS OR SPRINKLER SYSTEMS ARE TO BE USED TO MOISTEN EXPOSED SOILS. AFTER EACH DAY'S ACTIVITIES CEASE, TO PREVENT DUST FROM LEAVING THE SITE AND TO CREATE CRUST.
  - AFTER CLEANING, GRADING, EARTH MOVING OR EXCAVATION IS COMPLETED, THE DISTURBED AREA MUST BE TREATED BY WATERING OR REVEGETATING, OR BY SPREADING SOIL BINDERS UNTIL THE AREA IS PAVED OR OTHERWISE DEVELOPED SO THAT DUST GENERATION WILL NOT OCCUR.
  - DURING CONSTRUCTION, WATER TRUCKS OR SPRINKLER SYSTEMS ARE TO BE USED TO KEEP ALL AREAS OF VEHICLE MOVEMENT DAMP ENOUGH TO PREVENT DUST FROM LEAVING THE SITE. AT A MINIMUM, THIS WILL INCLUDE WAITING DOWN SUCH AREAS IN THE LATE MORNING AND AFTER WORK IS COMPLETED FOR THE DAY. INCREASED WATERING REQUIREMENTS WILL BE REQUIRED WHENEVER THE WIND SPEED EXCEEDS 15 MPH.
- IMPORTATION, EXPORTATION AND STOCKPILING OF FILL MATERIAL:
- SOIL STOCKPILED FOR MORE THAN TWO DAYS SHALL BE COVERED, KEPT MOIST, OR TREATED WITH SOIL BINDERS TO PREVENT DUST GENERATION.
  - TRUCKS TRANSPORTING FILL MATERIAL TO AND FROM THE SITE SHALL BE BARRED FROM THE POINT OF ORIGIN, TO MINIMIZE TRACKING OF WIND ON TO PUBLIC ROADS.
  - TRUCKS TRANSPORTING FILL MATERIAL TO AND FROM THE SITE SHALL BE BARRED FROM THE POINT OF ORIGIN, TO MINIMIZE TRACKING OF WIND ON TO PUBLIC ROADS.
- ACTIVATION OF INCREASED DUST CONTROL MEASURES:
- THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING, AS NECESSARY, TO PREVENT TRANSPORT OF DUST OFF-SITE. THEIR NAMES SHALL INCLUDE HOLDING AND WEREND PERIODS WHEN WORK MAY NOT BE PROGRESS. THE NAME AND TELEPHONE NUMBER OF THE PERSONS TO BE PROVIDED TO THE AIR POLLUTION CONTROL DISTRICT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

## ABBREVIATIONS

TF	TOP OF FINISH ELEVATION
TL <td>TOP OF WALL ELEVATION</td>	TOP OF WALL ELEVATION
BW <td>BOTTOM OF WALL ELEVATION @ FG</td>	BOTTOM OF WALL ELEVATION @ FG
BS <td>FINISH ORG GRADE ELEVATION</td>	FINISH ORG GRADE ELEVATION
FS <td>FINISH SURFACE ELEVATION</td>	FINISH SURFACE ELEVATION
FE <td>FINISH FLOOR ELEVATION</td>	FINISH FLOOR ELEVATION
BE <td>BEGIN HORIZONTAL CURVE</td>	BEGIN HORIZONTAL CURVE
EC <td>END HORIZONTAL CURVE</td>	END HORIZONTAL CURVE
PNC <td>POINT OF REVERSE CURVE</td>	POINT OF REVERSE CURVE
CH/C <td>CHAIN LINK FENCE</td>	CHAIN LINK FENCE
ICV <td>IRRIGATION CONTROL VALVE</td>	IRRIGATION CONTROL VALVE
POB <td>POWER POLE</td>	POWER POLE
HB <td>HOSE BIB</td>	HOSE BIB
CMP <td>CORRUGATED METAL PIPE</td>	CORRUGATED METAL PIPE
DL <td>DRIVE</td>	DRIVE
WV <td>WATER VALVE</td>	WATER VALVE
MW <td>WATER METER</td>	WATER METER
MDR <td>METAL DRAIN</td>	METAL DRAIN
BDR <td>BUILDING</td>	BUILDING
BLDG	TO BE REMOVED
ELP <td>ELECTRICAL PULL BOX</td>	ELECTRICAL PULL BOX
H <td>WALL HEIGHT</td>	WALL HEIGHT
AD <td>AREA DRAIN</td>	AREA DRAIN
E <td>EXISTING</td>	EXISTING
RD <td>ROAD</td>	ROAD
BEG	BEGIN
OC	ON CENTER
FD	FOUND
BK	BOOK
SRK	SPIRE
IP <td>IRON PIPE</td>	IRON PIPE
CMU <td>CONCRETE MASONRY UNIT</td>	CONCRETE MASONRY UNIT
FH <td>FIRE HYDRANT</td>	FIRE HYDRANT
SN <td>SIGN</td>	SIGN
APN <td>ASSESSOR PARCEL NUMBER</td>	ASSESSOR PARCEL NUMBER
STA <td>STATION</td>	STATION

## PROJECT CONSULTANTS

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EDWARD · BID · GARRO

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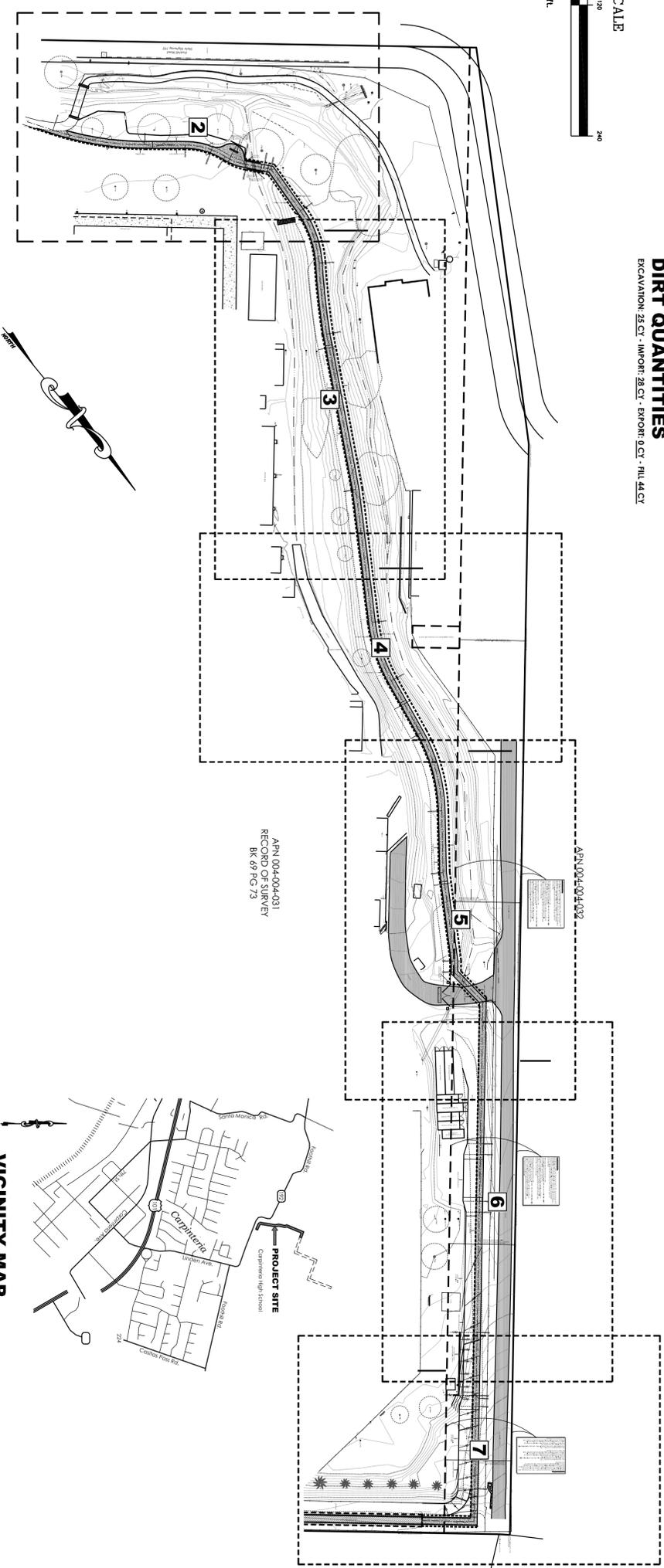
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## SCOPE OF WORK

CONSTRUCTION FOR THIS PROJECT WILL BE DONE WITHIN A PROPOSED 10' WIDE EQUESTRIAN & HIKING TRAIL EASEMENT. CONSTRUCTION WILL INCLUDE THE ROUGH GRADING FOR THE PROPOSED EQUESTRIAN & HIKING TRAIL WITH THE TRAIL BEING GRADED TO > 1% CUT/FILL SLOPES WILL BE CUT STEEP AND NOT EXCEED 6' IN HEIGHT. WOOD REMAINING WALLS WILL BE CONSTRUCTED TO SUPPORT ALL CUT/FILL SLOPES.

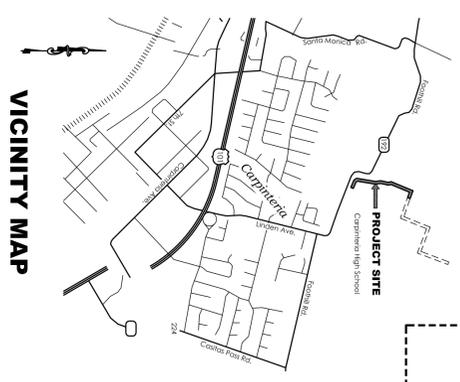
## SHEET INDEX

SHEET NO.	SHEET TITLE	REMARKS
1	COVER SHEET & SITE PLAN	
2	ENLARGED PLAN	
3	ENLARGED PLAN	
4	ENLARGED PLAN	
5	ENLARGED PLAN	
6	ENLARGED PLAN	
7	ENLARGED PLAN	
8	DETAIL SHEET	



## VICINITY MAP

Scale: Not to Scale



**811** Under Ground Services Alert of Potential Callers  
CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG  
ALL UTILITY LOCATIONS ARE APPROXIMATE  
CONTRACTOR SHALL VERIFY UNDERGROUND  
SERVICE ALERT 2 WORKING DAYS PRIOR TO  
STARTING ANY EXCAVATION OR RESURFACING.

REVISIONS	DATE	REMARKS
	02-05-2013	ADD APNS TO SHEETS 2-7
	02-14-2013	MOVE TRAIL SHEETS 5-7
	03-14-2013	ADDED REMAINING WALL DETAIL SHEET

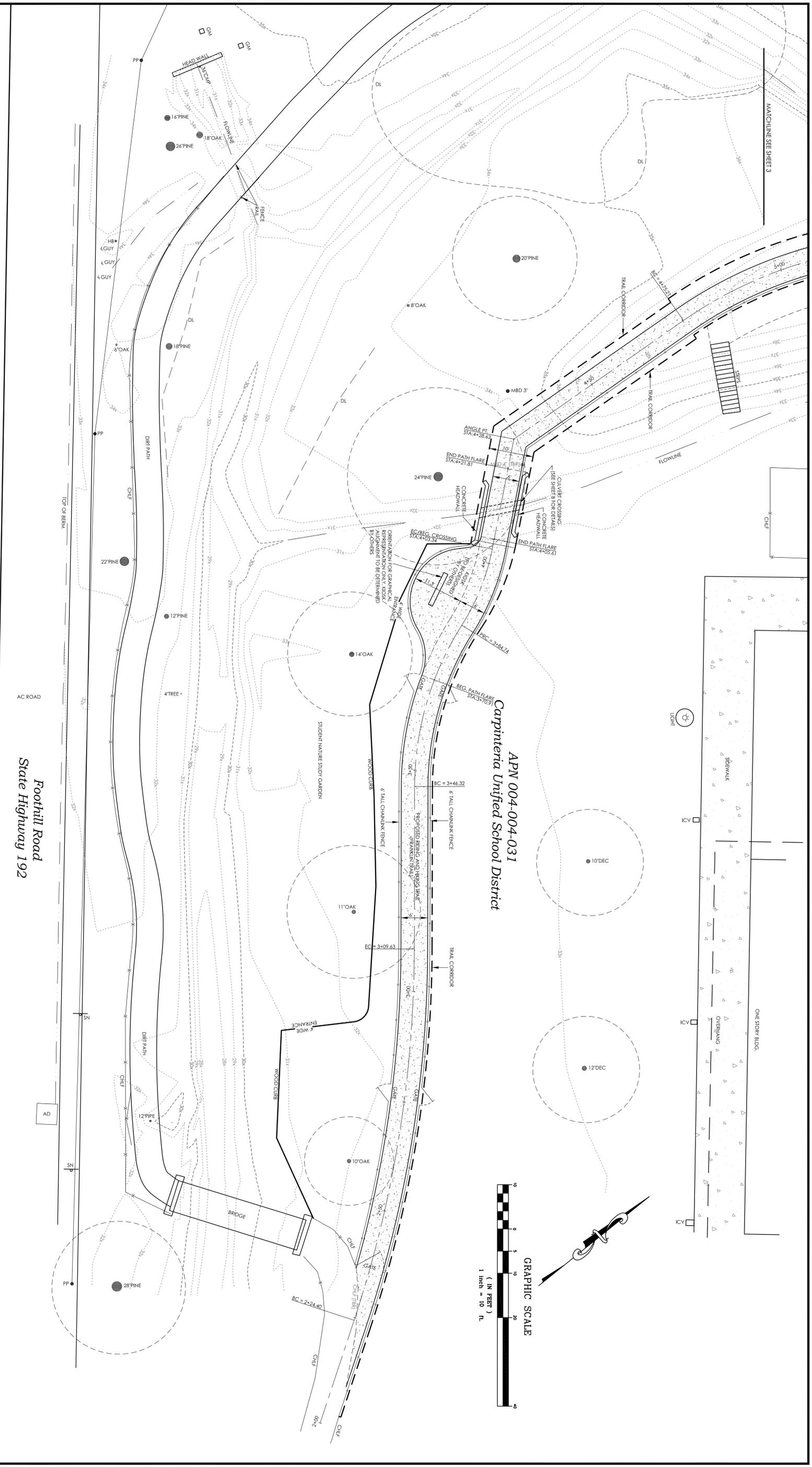
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ESTABLISHED IN 1990

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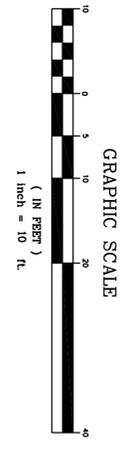
**FRANKLIN TRAIL**  
Cuppineria, CA  
*Plan and Profile*

DATE PREPARED	SHEET 1 OF 8
JULY 17, 2012	
DRAWING NO. 2012036 PART 2	PROJECT NO. P2012036 PART 2
BY JB6 & BCG	SCALE PER SHEET
	DATUM
	REF:



Foothill Road  
State Highway 192

APN 004-004-031  
Carpinteria Unified School District



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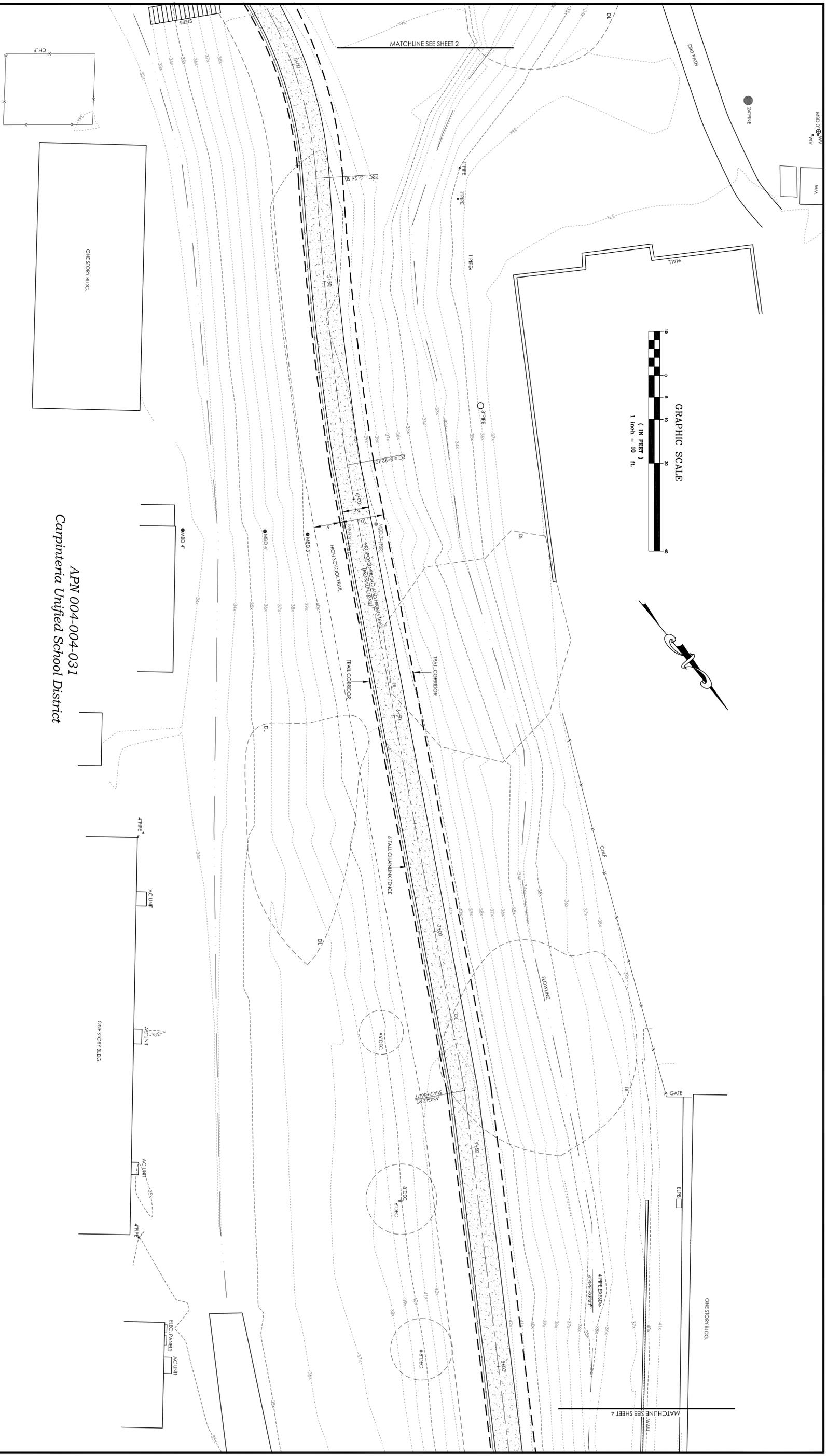
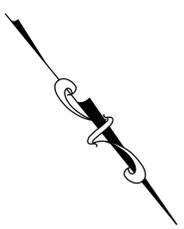
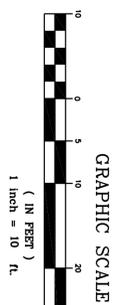
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**FRANKLIN TRAIL**  
Carpinteria, CA  
Plan and Profile

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JULY 17, 2012	PROJECT NO. P2012036 PART 2
DRAWING NO. 2012036 PART 2	SCALE PER SHEET
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Carpinteria Unified School District

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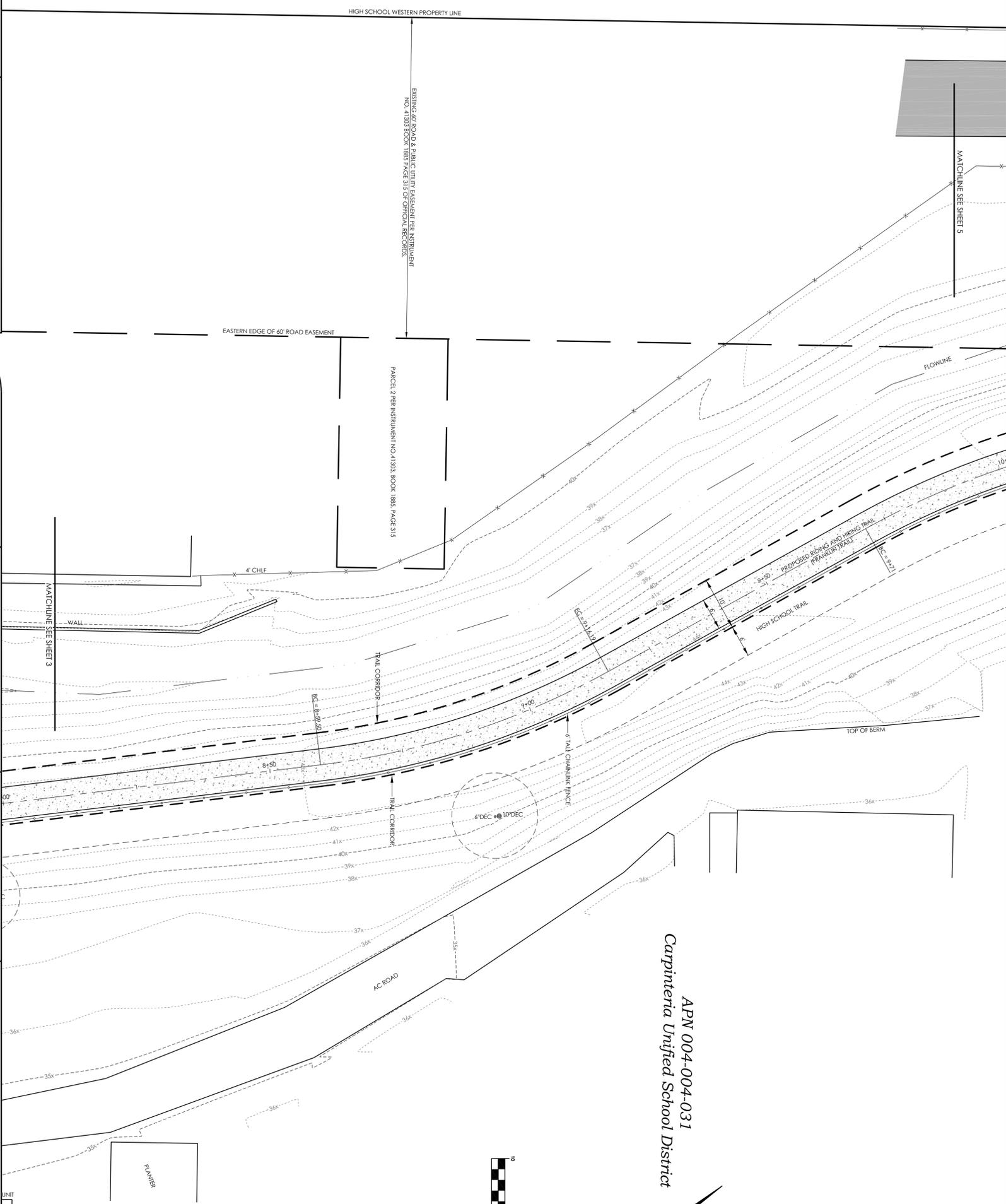
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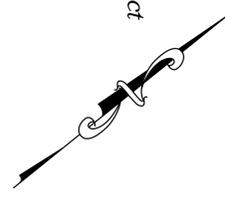
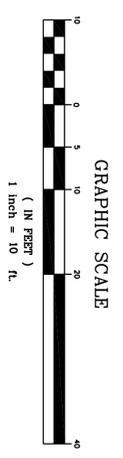
**FRANKLIN TRAIL**  
Carpinteria, CA  
Plan and Profile

DATE PREPARED	SHEET 3 OF 8
JULY 17, 2012	PROJECT NO. P2012036 PART 2
DRAWING NO. 2012036 PART 2	SCALE PER SHEET
BY JBB & BCG	DATUM
REF:	REF:

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APN 004-004-031  
Carpinteria Unified School District



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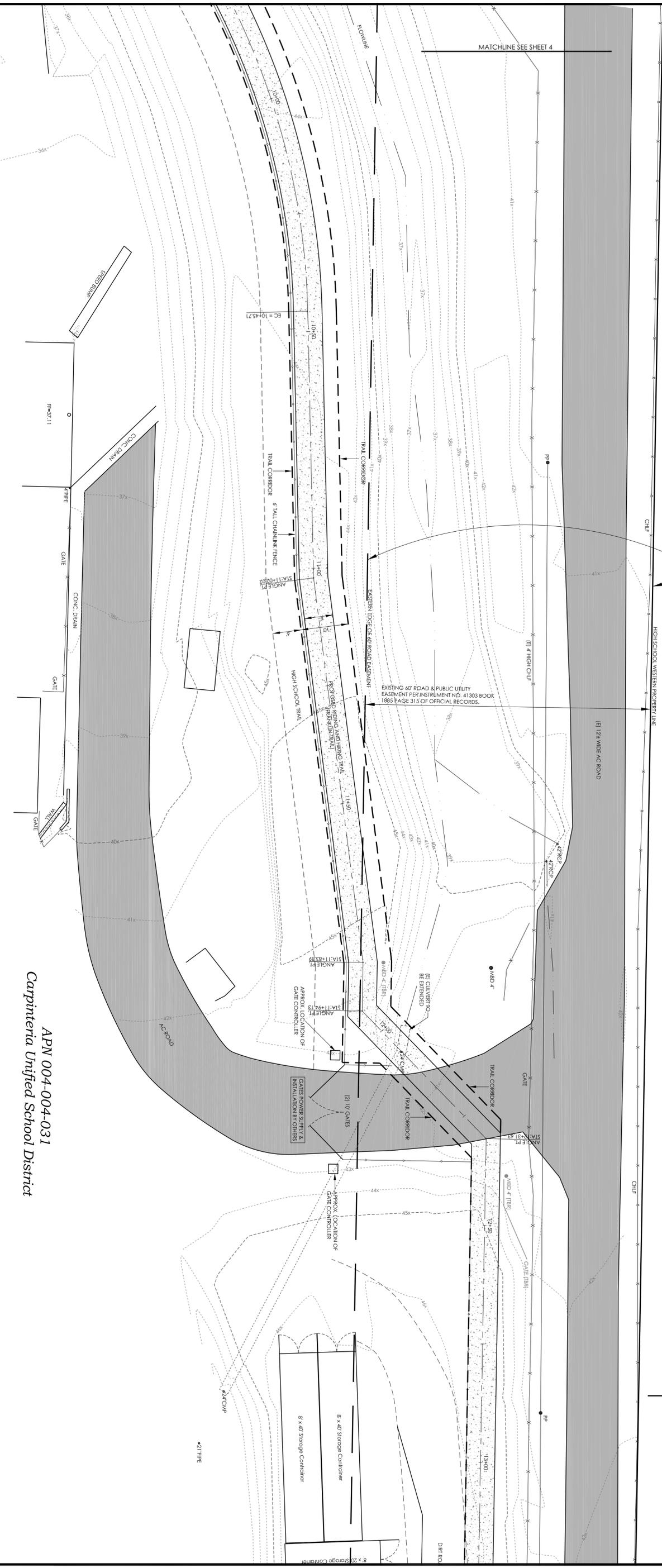
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Carpinteria, CA  
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DATE PREPARED	SHEET 4 OF 8
JULY 17, 2012	PROJECT NO. P2012036 PART 2
DRAWING NO. 2012036 PART 2	SCALE PER SHEET
BY JB& BCG	DATUM
	REF:

**EXHIBIT NOTES:**  
 Memorandum of Agreement Dated November 10, 1961, by and between JANE FRANKLIN PERRY and JACK ROBERT PERRY, husband and wife, and the Board of Trustees of the CARPINERIA UNIFIED SCHOOL DISTRICT of Santa Barbara County, California Record Number 41302 - Book 1882, Pgs. 308-313 of County Records.  
 Grant Deed Recorded November 17, 1961, by FRANKLIN BONDCHIN, Grantor CARPINERIA UNIFIED SCHOOL DISTRICT, Grantee PARCEL TWO, Excepting and Reserving to Grantor herein, their heirs, successors and assigns, a non-exclusive easement for ingress and egress and utility, as shown on the attached map, their Record Number 41303 - Book 1882, Pgs. 312-317 of County Records.  
 Grant Deed Recorded November 17, 1961, by FRANKLIN BONDCHIN, Grantor CARPINERIA UNIFIED SCHOOL DISTRICT, Grantee PARCEL TWO, Excepting and Reserving to Grantor herein, their heirs, successors and assigns, a non-exclusive easement for ingress and egress and utility, as shown on the attached map, their Record Number 41311 - Book 1885, Pgs. 331-334 of County Records.

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APN 004-004-031  
 Carpinteria Unified School District

**FRANKLIN TRAIL**  
 Carpinteria, CA  
 Plan and Profile

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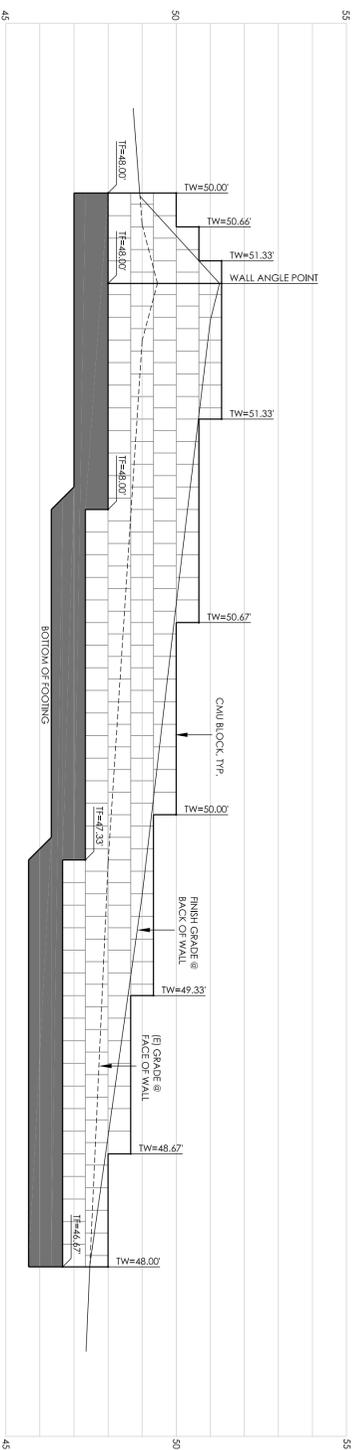


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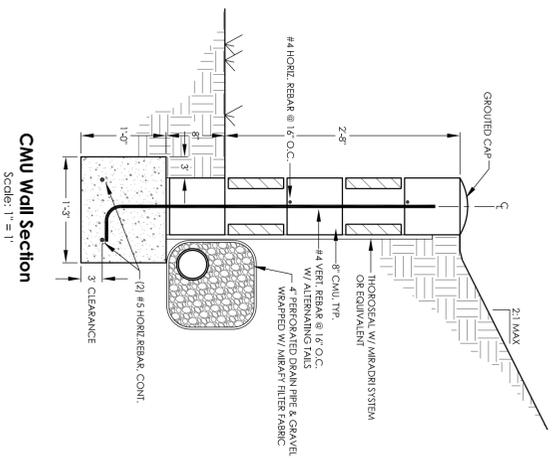
DATE PREPARED	SHEET 5 OF 8
JULY 17, 2012	PROJECT NO. P2012036 PART 2
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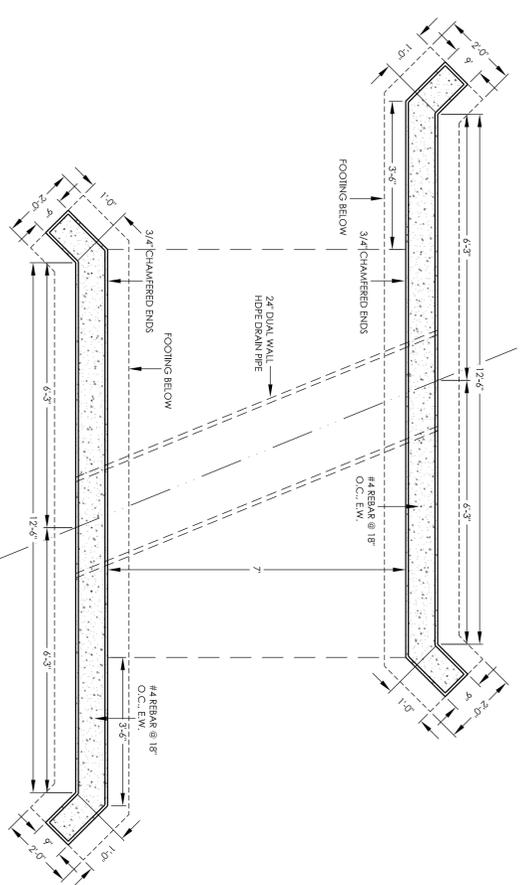




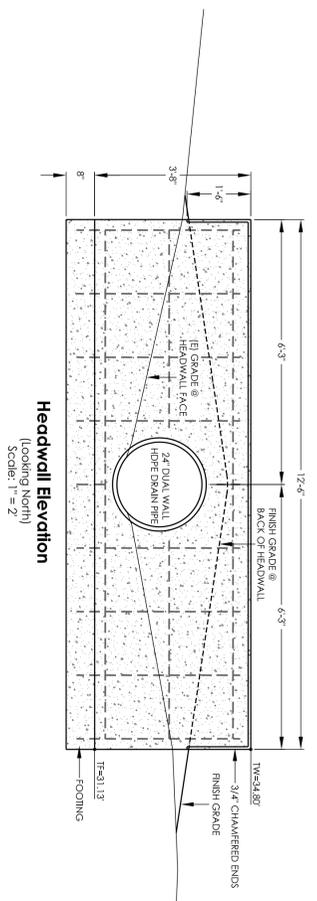
**CMU Wall Profile**  
(Looking South East)  
HORIZ. SCALE: 1" = 5'  
VERT. SCALE: 1" = 2.5'



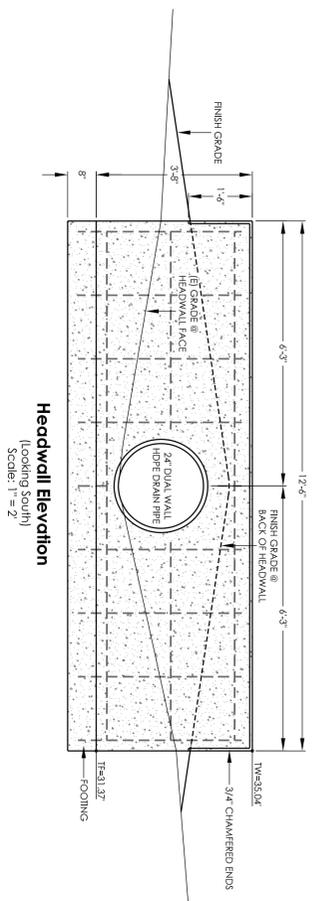
**CMU Wall Section**  
Scale: 1" = 1'



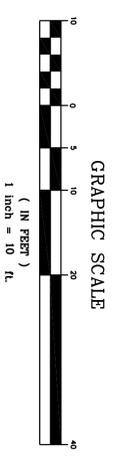
**Headwall Plan View**  
Scale: 1" = 2'



**Headwall Elevation**  
(Looking North)  
Scale: 1" = 2'



**Headwall Elevation**  
(Looking South)  
Scale: 1" = 2'



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**FRANKLIN TRAIL**  
*Carpinteria, CA*  
*Plan and Profile*

DATE PREPARED	SHEET 8 OF 8
JULY 17, 2012	PROJECT NO. P2012036 PART 2
DRAWING NO. 2012036 PART 2	SCALE PER SHEET
BY JBB & BCG	DATUM
REF:	REF: