Agenda Item B.6
CONSENT CALENDAR
Meeting Date: March 5, 2019

TO: Mayor and Councilmembers

FROM: Charles W. Ebeling, P.E., T.E., Public Works Director

CONTACT: Marti Milan, P.E., Principal Civil Engineer

SUBJECT: Acceptance of Public Improvements – for Storke Road Northbound Widening Project and Notice of Completion

RECOMMENDATION:

A. Adopt Resolution No. 19-__ entitled "A Resolution of the City Council of the City of Goleta, California, Accepting Public Improvements for Storke Road Northbound at Hollister Avenue, Street Widening Improvements"; and

B. Direct the City Clerk to file the Notice of Completion.

BACKGROUND:

Goleta Hollister, LLC, (Developer) is the owner of the real property as approved on the Vesting Tentative Map No. 32,048 (Vesting Map), located on Hollister Avenue between Glen Annie Road and approximately 125-feet east of Santa Felicia. The City Council's October 2, 2012, approval of the Vesting Map authorized the merger of two parcels (APNs 073-030-020 and 073-030-021) and re-subdivision into 10 parcels. Nine (9) of the parcels are located with the commercial component of the project and one (1) parcel comprises the residential component of the development.

In accordance with City Council Resolution 12-71, Exhibit 2, Conditions of Approval, the Developer was conditioned to construct or monetarily contribute to the construction of an additional northbound lane along Storke Road (Storke) that would extend from Hollister Avenue (Hollister) to the existing right-turn lane that serves the US 101 southbound on-ramp at the Storke interchange. Given the timing of the project the developer selected to construct the improvements. A Reimbursement Agreement was approved at the December 12, 2013 City Council meeting which defined the process for the construction of the project, the requirements for the reimbursement and the acceptance of the improvements.

DISCUSSION:

Public Works staff has reviewed the constructed improvements and finds that the public improvements have been completed in accordance with the approved improvement plans (Attachment 1). The plans generally included the widening of Storke, traffic signal, signing and striping modifications, and bike lane improvements. The widening was eight feet (8') from Hollister and narrowing back to the original alignment for approximately 500 feet. The median on Hollister was also realigned for the same approximate 500 feet to accommodate the restriping to allow for an additional lane from Hollister to the existing turn lane at the southbound on ramps for US101. The widening also required the relocation of the signal at the northeast corner of the Storke/Hollister intersection to allow the bike lane to come across Hollister, lane signal head adjustments for the new lane alignment, and improve the free right movement at the northeast corner of the intersection. Bike lane improvements included widening, green paint and a dual approach for riders with a rider activated signal to cross the southbound on-ramp.

The improvements were substantially competed in April, 2016 and the one-year warranty and guarantee period has been completed as well. All project accounting has been completed including payment of fees. In compliance with the Reimbursement Agreement a Notice of Completion must be filed in order for the improvements to be accepted by the City. Public Works staff is recommending that Council adopt the attached Resolution (Attachment 2) accepting the improvements and direct the City Clerk to file the Notice of Completion (Attachment 3). This will complete the project and release the developer from further responsibility for the improvements.

FISCAL IMPACTS:

There is no fiscal impact associated with accepting the improvements and filing the Notice of Completion.

ALTERNATIVES:

No alternative is suggested at this time.

Legal Review By:

Michael Jenkins
City Attorney

Approved By:

Michelle Greene
City Manager

ATTACHMENTS:

1. A Resolution of the City Council of the City of Goleta, California, Accepting Public Improvements for Storke Road Northbound at Hollister Avenue, Street Widening Improvements
2. Notice of Completion
3. Storke Road Northbound at Hollister Avenue Street Widening Improvement Plans

ATTACHMENT 1

A Resolution of the City Council of the City of Goleta, California, Accepting Public Improvements for Storke Road Northbound at Hollister Avenue, Street Widening Improvements

RESOLUTION NO. 19-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GOLETA, CALIFORNIA, ACCEPTING PUBLIC IMPROVEMENTS FOR STORKE ROAD NORTHBOUND AT HOLLISTER AVENUE, STREET WIDENING IMPROVEMENTS

WHEREAS, on October 2, 2012, the City of Goleta (City) approved a development project application, commonly known as Westar, on behalf of Goleta Hollister, LLC (Developer) which included public improvements for the widening of Storke Road from Hollister Avenue to the southbound on-ramp for US 101; and

WHEREAS, the City and Developer entered into a Subdivision Improvement Agreement and Reimbursement Agreement (Agreements) for the Developer to construction such public improvements; and

WHEREAS, the City Engineer has evaluated the work and has determined that the work was satisfactorily completed in accordance with the improvement plans and Agreements; and

WHEREAS, the City Engineer recommends that the City council accept the improvements into the public street system.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GOLETA, AS FOLLOWS:

SECTION 1.
The work required to be performed by Developer has been satisfactorily completed in accordance with the improvement plans and Agreements.

SECTION 2.
The work is hereby approved based on the recommendation of the City Engineer and accepted.

SECTION 3.
The City Clerk shall certify to the passage and adoption of this resolution and enter it into the book of original resolutions.

PASSED, APPROVED AND ADOPTED this 5th day of March, 2019.

_____
PAULA PEROTTE
MAYOR

ATTEST:

_____
DEBORAH S. LOPEZ
CITY CLERK

APPROVED AS TO FORM:

_____
MICHAEL JENKINS
CITY ATTORNEY

STATE OF CALIFORNIA)
COUNTY OF SANTA BARBARA) ss.
CITY OF GOLETA)

I, DEBORAH S. LOPEZ, City Clerk of the City of Goleta, California, DO HEREBY CERTIFY that the foregoing Resolution No. 19-__ was duly adopted by the City Council of the City of Goleta at a regular meeting held on the 5th day of March, 2019 by the following vote of the Council:

AYES:

NOES:

ABSENT:

ABSTENTIONS:

(SEAL)

_____
DEBORAH S. LOPEZ
CITY CLERK

ATTACHMENT 2

Storke Road Northbound at Hollister Avenue, Street Widening Improvements
Notice of Completion

RECORDING REQUESTED BY:
WHEN RECORDED RETURN TO:

City of Goleta
130 Cremona Drive, Suite B
Goleta, CA 93117
ATTN: CITY CLERK

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Exempt from recording fee, per Government Code Section 27383

CITY OF GOLETA, CALIFORNIA

By: Deborah S. Lopez
City Clerk

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that a Subdivision Improvement Agreement was entered into by the City Council of the City of Goleta (Owner), California, and Goleta Hollister, LLC (Developer), for the performance of the following work:

STORKE ROAD NORTHBOUND AT HOLLISTER AVENUE, STREET WIDENING IMPROVEMENTS PORJECT

Said work was substantially completed in September, 2015 by said Developer; was completed in accordance with City standards and to the satisfaction of the City Engineer of the City of Goleta; and was accepted by the City Council of the City of Goleta, Owner, at a regular meeting thereof held on the 5th day of March, 2019, by Resolution No. 19-__.

DATED this 5th day of March, 2019, at Goleta, California.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

_____
DEBORAH S. LOPEZ,
CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF SANTA BARBARA) ss
CITY OF GOLETA)

I, Deborah S. Lopez, City Clerk of the City of Goleta, California, do hereby certify that the foregoing Notice of Completion is true and correct, and that said Notice of Completion was duly and regularly ordered to be recorded in the Office of the Santa Barbara County Recorder by said City Council.

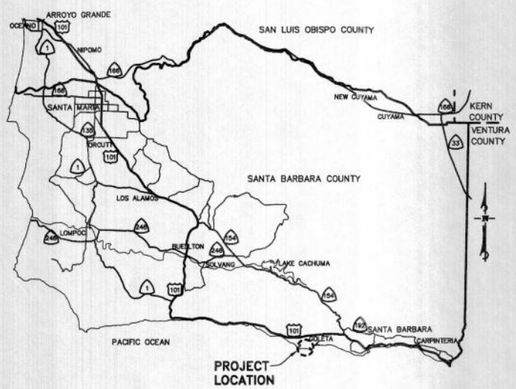
DATED this 5th day of March, 2019, at Goleta, California.

_____
DEBORAH S. LOPEZ
CITY CLERK

ATTACHMENT 3

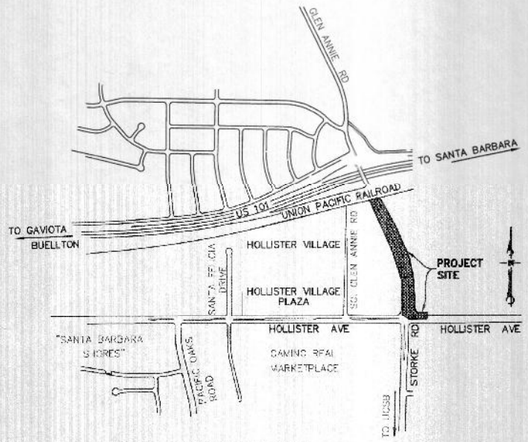
Storke Road Northbound at Hollister Avenue Street Widening Improvement Plans

STORKE RD. NB AT HOLLISTER AVE.
STREET WIDENING IMPROVEMENTS
GOLETA, CALIFORNIA



LOCATION MAP

N.T.S.



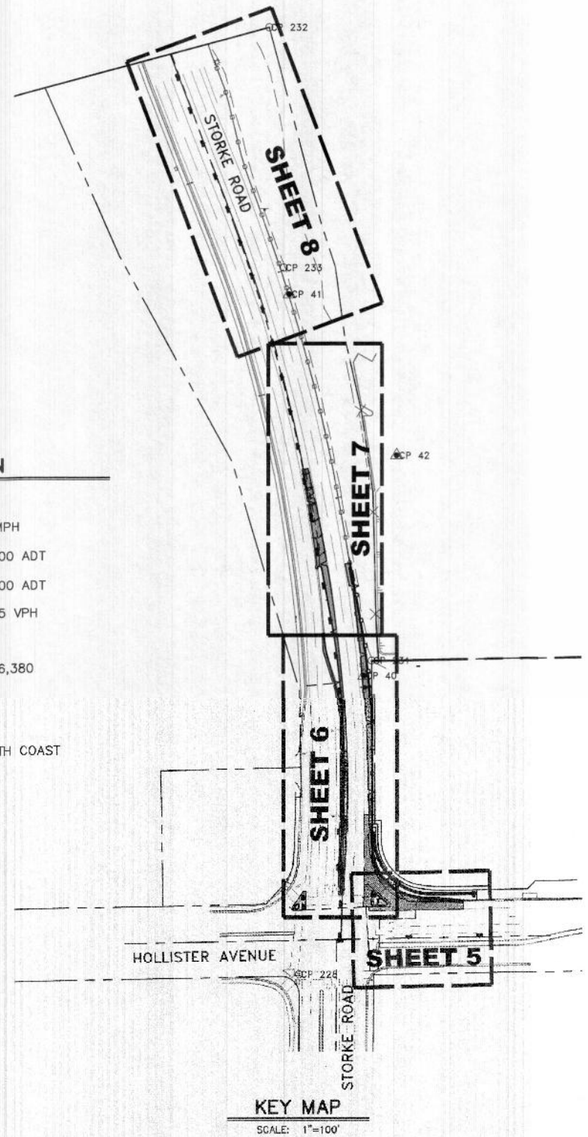
VICINITY MAP

N.T.S.

DESIGN DESIGNATION

STORKE ROAD

DESIGN SPEED (V):	55 MPH
ADT (2015):	33,800 ADT
ADT (2035):	40,800 ADT
DHV:	3,805 VPH
D:	53%
ESAL:	5,596,380
T:	5%
$T_{I_{30}}$:	11
CLIMATE REGION:	SOUTH COAST



KEY MAP

SCALE: 1"=100'

SHEET INDEX

SHEET NO. DESCRIPTION

SURVEYOR'S NOTES

1. MAPPING
   TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=20', WITH A 1 FOOT CONTOUR INTERVAL, FROM DATA COLLECTED IN A FIELD SURVEY PERFORMED USING CONVENTIONAL EQUIPMENT AND PROCEDURES IN AUGUST, 2013.

2. BOUNDARY AND EASEMENT INFORMATION
   THE BOUNDARY INFORMATION SHOWN HEREON IS BASED ON TIES TO ANOTHER JOB OF 18949 DRAWING 18949–CS WHICH WERE BROUGHT IN AND ROTATED TO FIT MONUMENTS FOUND.

3. BASIS OF BEARINGS AND COORDINATES
   BEARINGS SHOWN ON THIS MAP WAS CREATED FROM A BASE TIE BETWEEN CONTROL POINTS 34 TO 228 OF S87–24–58.00E

4. ELEVATIONS
   ELEVATIONS SHOWN HEREON ARE EXPRESSED IN U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1929 (NGVD 29), BENCHMARK BEING A 2¼" BRASS DISK SET FLUSH IN THE TOP OF THE EAST CONCRETE HEADWALL OF A 36 INCH PIPE CULVERT, RECOVERED PER NGS STATION RECOVERY NOTE EW3793.. THIS SURVEY TIED WITH GPS TIES TO BENCHMARK 34, SCRIBE X. ELEVATION=44.82 FEET.

5. UTILITIES:
   THE EXISTING SURFACE UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED BY FIELD SURVEY. SUBSURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORDS BOTH PUBLIC AND PRIVATE, PENFIELD & SMITH MAKES NO WARRANTY AS TO THE ACCURACY OR COMPLETENESS OF SAID RECORDS.

CONTROL POINT LISTING:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
40	10356.249	11526.217	46.29	SET 1/2_IP
41	10894.210	11420.835	69.77	SET 1/2IN_IP
42	10668.462	11572.515	36.61	SET MAG/SHINE
43	11403.210	11137.519	81.25	SCRIBED X
44	11448.684	11430.993	71.07	MAG/SHINE
228	9935.244	11434.328	40.15	S&W LS 6098
231	10377.312	11537.192	46.02	FD 1/2_IP LS3804
232	11272.004	11392.660	48.81	
233	10931.942	11413.196	71.34	1/2IN_IP

GENERAL INFORMATION

PROJECT:
CONDITION OF APPROVAL ON:
GOLETA MIXED USE VILLAGE
HOLLISTER AVENUE
GOLETA, CA 93117

OWNER:
WESTAR ASSOCIATES
2925 BRISTOL STREET
COSTA MESA, CA 92626–5991
PHONE: (714) 241–0400
CONTACT: JUD DUTRISAC

DEVELOPER:
WESTAR ASSOCIATES
2925 BRISTOL STREET
COSTA MESA, CA 92626–5991
PHONE: (714) 241–0400
CONTACT: JUD DUTRISAC

CIVIL ENGINEER:
PENFIELD & SMITH ENGINEERS
111 EAST VICTORIA STREET
SANTA BARBARA, CA 93101
PHONE: (805) 963–9532
CONTACT: DON E. DONALDSON

LAND SURVEYOR:
PENFIELD & SMITH ENGINEERS
111 EAST VICTORIA STREET
SANTA BARBARA, CA 93101
PHONE: (805) 963–9532
CONTACT: JIM WILSON

GEOTECHNICAL:
GEOSOLUTIONS, INC.
1021 WEST TAMA LANE, SUITE 105
SANTA MARIA, CA 93454
PHONE: (805) 614–8333
CONTACT: BRADLEY BUCHER, PE

CITY OF GOLETA:
130 CREMONA DR., SUITE B
GOLETA, CA 93111
PHONE: (805) 961–7577
CONTACT: JAMES WINSLOW
SR. PROJECT MANAGER

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
Engineering · Surveying · Planning
Construction Management
111 East Victoria Street, Santa Barbara, CA 93101
Phone: (805) 963–9532 Fax: (805) 966–9801

DESIGN PAS CHECKED
DON. E. DONALDSON DATE: 4-6-15
PROJECT ENGINEER
R.C.E. 36,364

CITY OF GOLETA, CALIFORNIA
REVIEWED BY:
SIGNATURE
4.6.15
DATE

STORKE RD. NB AT HOLLISTER AVE.
STREET WIDENING IMPROVEMENTS
COVER SHEET
CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 1 OF 11
PLAN DATE 1/05/15

36–ENG SAVE DATE: 1/5/2015 9:51:26 AM PLOT BY: Pete Sinks PLOT DATE: 1/5/2015 9:58:07 AM PLOT SCALE: 1:1

DRAWING: r:\acad\work\17535\cfile\20–storke & hollister\17535storke.dwg

GENERAL CONSTRUCTION NOTES

1. ALL REFERENCED SPECIFICATIONS, CODES, DRAWINGS AND DETAILS SHALL BE INCORPORATED INTO THESE PLANS AND MADE A PART HEREOF AS IF SPELLED OUT OR DELINEATED IN THEIR ENTIRETY HEREON.

2. ALL MATERIALS AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. IF A MATERIAL OR CONSTRUCTION SPECIFICATION IS NOT ADDRESSED IN THESE PLANS, THEN BRING TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION. THE ORDER OF PRECEDENCE FOR SPECIFICATIONS SHALL APPLY AS FOLLOWS: THE CITY OF GOLETA HAS ADOPTED THE STANDARD DETAILS, LATEST EDITION (SEPTEMBER 2011) OF THE COUNTY OF SANTA BARBARA. COUNTY STANDARD PLANS AND SPECIFICATIONS SHALL INCLUDE THE CURRENT VERSIONS OF THE CALTRANS STANDARD PLANS AND SPECIFICATIONS AND THE APWA STANDARD PLANS AND SPECIFICATIONS FOR SOUTHERN CALIFORNIA (GREEN BOOK), LATEST EDITION (PUBLISHED BY BUILDING NEWS, INC., LOS ANGELES). IF THERE IS A CONFLICT BETWEEN THESE STANDARD PLANS AND SPECIFICATIONS, THE COUNTY STANDARD DETAILS SHALL GOVERN. CALTRANS PLANS SHALL HAVE PRECEDENCE OVER APWA PLANS UNLESS SPECIFICALLY STATED OTHERWISE. THE CURRENT DATE FOR CALTRANS PLANS AND SPECIFICATIONS ARE VALID AS OF THE PROJECT DATE OF GOING OUT TO BID.

3. GRADING OR OTHER CONSTRUCTION WORK OFFSITE IS NOT PERMITTED WITHOUT PRIOR WRITTEN PERMISSION OF THE AFFECTED OFFSITE PROPERTY OWNERS.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PROJECT'S CONDITIONS OF APPROVAL AND ABIDE BY THEIR REQUIREMENTS AS APPLICABLE.

5. GEOTECHNICAL OR GEOLOGIC REPORTS AND ANY UPDATES SHALL BE INCORPORATED INTO THESE PLANS AND MADE A PART HEREOF AS IF SPELLED OUT IN THEIR ENTIRETY HEREON. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE APPLICABLE REPORTS AND ABIDE BY THEIR RECOMMENDATIONS. IF THE CONTRACTOR DETERMINES THERE IS A CONFLICT BETWEEN THESE PLANS AND THE REPORTS CONTRACTOR SHALL PHONE AND NOTIFY IN WRITING BOTH THE PREPARER OF THESE PLANS AND THE REPORT. PRIOR TO PROCEEDING CONTRACTOR WILL WAIT FOR A WRITTEN RESPONSE CLARIFYING THE DISCREPANCY.

6. BEFORE BEGINNING WORK A PRE-CONSTRUCTION MEETING SHALL BE HELD. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER, THE UTILITY COMPANIES, THE GEOTECHNICAL ENGINEER, THE ARCHITECT, AND THE ENGINEER, AND SHALL DETERMINE FROM EACH: (1) SCOPE OF WORK TO BE OBSERVED AND BY WHOM, (2) SCOPE OF TESTING, AND (3) ADVANCE NOTICE REQUIRED (MINIMUM OF 48 HOURS). DURING THE COURSE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR OBSERVATION AND TESTING AS STIPULATED PURSUANT TO ABOVE DETERMINATIONS. WORK NOT OBSERVED AND TESTED WILL BE SUBJECT TO REJECTION.

7. BEFORE BEGINNING WORK, THE CONTRACTOR SHALL DETERMINE OR VERIFY THE LOCATION AND FLOWLINE ELEVATION OF ALL EXISTING WATER, SEWER, AND DRAINAGE STRUCTURES AND/OR CONDUITS TO BE JOINED BY NEW CONSTRUCTION. IF DIFFERENCES ARE OBSERVED THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BY PHONE AND IN WRITING.

8. EXISTING PERMANENT SURVEY MONUMENTS SHOWN ON THE PLANS, INCLUDING PROPERTY CORNERS AND BENCHMARKS, SHALL BE PRESERVED BY THE CONTRACTOR OR SHALL BE TIED-OUT PRIOR TO CONSTRUCTION AND RE-SET AFTER CONSTRUCTION BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

GENERAL REQUIREMENTS OF CONTRACTOR

1. THE CONTRACTOR SHALL MAINTAIN A COMPLETE AND ACCURATE RECORD OF ALL CHANGES OF CONSTRUCTION FROM THAT SHOWN IN THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING A BASIS FOR CONSTRUCTION RECORD DRAWINGS. NO CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER (PENFIELD & SMITH), THE CITY OF GOLETA, AND/OR THE AGENCY HAVING JURISDICTION. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL DELIVER THIS RECORD OF ALL CONSTRUCTION CHANGES TO THE ENGINEER ALONG WITH A LETTER WHICH DECLARES THAT THE PROJECT WAS CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND APPROVED CHANGE ORDERS.
2. CAUTION: THE ENGINEER WHO PREPARED THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY THE ENGINEER AND CITY OF GOLETA.

3. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER, CONSTRUCTION MANAGER AND THE CITY BY PHONE AND IN WRITING UPON DISCOVERY OF, AND BEFORE DISTURBING, ANY PHYSICAL CONDITIONS DIFFERING FROM THOSE REPRESENTED BY APPROVED PLANS AND SPECIFICATIONS.

4. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONALS HARMLESS FROM ALL LIABILITY AND CLAIMS, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONALS.

5. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROTECTION OF PUBLIC AND PRIVATE PROPERTY IN THE VICINITY OF THE JOB SITE AND FURTHER AGREES TO, AT CONTRACTOR'S EXPENSE, REPAIR OR REPLACE TO THE ORIGINAL CONDITION, ALL EXISTING IMPROVEMENTS WITHIN OR IN THE VICINITY OF THE JOB SITE WHICH ARE NOT DESIGNATED FOR REMOVAL AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF CONTRACTOR'S OPERATIONS.

6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL AND SAFETY AND SHALL FURNISH, INSTALL, AND MAINTAIN SUCH FENCING, SIGNS, LIGHTS, TRENCH PLATES, BARRICADES, AND/OR OTHER PROTECTION AS IS NECESSARY FOR SAID CONTROL AND SAFETY.

7. EXISTING BURIED CONDUITS AND STRUCTURES KNOWN TO THE ENGINEER ARE SHOWN ON THESE PLANS. HOWEVER, ALL SUCH CONDUITS AND STRUCTURES MAY NOT BE SHOWN AND THE LOCATIONS AND ELEVATIONS OF THOSE SHOWN ARE APPROXIMATE ONLY AND HAVE NOT NECESSARILY BEEN INDEPENDENTLY VERIFIED BY THE PREPARER OF THESE PLANS.

8. THE CONTRACTOR SHALL INDEPENDENTLY VERIFY THE PRESENCE OF BURIED CONDUITS AND STRUCTURES. BOTH ACTIVE AND ABANDONED-IN-PLACE AND, BEFORE COMMENCING WORK, CONTRACTOR SHALL DETERMINE THE EXACT LOCATION INCLUDING DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES, CONDUITS AND STRUCTURES, INCLUDING SERVICE CONNECTIONS, WHICH MAY AFFECT OR BE AFFECTED BY HIS OPERATIONS. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, CONDUITS AND STRUCTURES.

9. UPON ENCOUNTERING EXISTING BURIED CONDUITS OR STRUCTURES NOT SHOWN OR LOCATED DIFFERENTLY THAN SHOWN ON THE PLANS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE OWNER OF THE CONDUIT OR STRUCTURE, AND THE CITY OF GOLETA BY PHONE AND IN WRITING. IF SUCH CONDUIT OR STRUCTURE AFFECTS OR IS AFFECTED BY THE WORK, CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION AND DIRECTION BEFORE PROCEEDING WITH THE WORK, EXCEPTING THAT IN AN EMERGENCY AFFECTING SAFETY OF LIFE, WORK OR ADJACENT PROPERTY, CONTRACTOR SHALL ACT AT ONCE WITHOUT INSTRUCTIONS TO PREVENT INJURY OR LOSS.

10. REMOVAL OF CONFLICTING MATERIALS (UTILITIES, PAVEMENT, WALLS, ETC.) SHALL BE DISPOSED OF OFFSITE OR STOCKPILED ONSITE AT THE DIRECTION OF THE CONSTRUCTION MANAGER.

EROSION CONTROL NOTES

1. IN ADDITION TO THESE NOTES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL EROSION CONTROL REQUIREMENTS SPECIFIED IN THE PROJECT CONDITIONS OF APPROVAL.

2. THE CONTRACTOR SHALL ENSURE ALL PROTECTION MEASURES ARE IN PLACE PRIOR TO THE RAINY SEASON. THE PROTECTION MEASURES MAY NEED TO BE INSTALLED DURING OTHER PARTS OF THE YEAR SHOULD RAIN BE IMMINENT.

3. THE CONTRACTOR SHALL ADJUST THE LIMITS OF THE PROTECTION MEASURES AS HIS WORK PROGRESSES.

4. THE CONTRACTOR SHALL ADJUST THE LIMITS OF THE PROTECTION MEASURES SHOULD THEY BE INADEQUATE TO CONTROL RUNOFF OF SILT LADEN WATER.

5. THE CONTRACTOR SHALL REMOVE SILT FROM ALL STORM DRAIN APPURTENANCES AND EROSION CONTROL DEVICES AFTER EACH RAIN.

6. THE PROTECTION MEASURES MAY BE TEMPORARILY MOVED OUT OF THE CONTRACTOR'S WAY TO FACILITATE CONSTRUCTION, PROVIDED THEY ARE REINSTALLED PRIOR TO THE NEXT RAIN STORM.

7. THE CONTRACTOR SHALL ADVISE HIS CREW OF THE INTENT OF THE PROTECTION MEASURES PRIOR TO THE START OF THE RAINY SEASON. THE CREW IS ENCOURAGED TO MONITOR THE EFFECTIVENESS OF THE SYSTEM AND ALERT THE CONTRACTOR OF ANY FAILURES OR PROBLEMS.

8. STAGING, REFUELING OF EQUIPMENT AND STORAGE OF MATERIALS AREAS MAY CHANGE THROUGHOUT CONSTRUCTION, AS REQUIRED. THE AREAS SHALL BE INSPECTED FREQUENTLY TO ENSURE NO SPILLED HAZARDOUS MATERIALS CONTAMINATE THE EXISTING GROUND. SHOULD THIS OCCUR, THE SPILL SHALL BE CLEANED UP IMMEDIATELY. REFUELING OF EQUIPMENT AND STORAGE OF HAZARDOUS MATERIALS SHALL NOT BE LOCATED NEAR STORM DRAIN INLETS, EXISTING BUILDINGS OR DRAINAGE SWALES.

TRENCHING AND BACKFILLING NOTES

1. ALL TRENCHING, BEDDING AND BACKFILL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE LATEST EDITION OF THE CITY GOLETA PUBLIC WORKS DEPARTMENT CONSTRUCTION STANDARD DETAILS EXCEPT AS MODIFIED BY THESE PLANS AND SPECIFICATIONS.

2. WATER ENCOUNTERED IN TRENCH OR STRUCTURE EXCAVATION SHALL BE REMOVED BY THE CONTRACTOR TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO PROVIDE DRY CONDITIONS DURING CONSTRUCTION OF PIPE OF STRUCTURE.

3. TRENCH OR STRUCTURE EXCAVATION SUBGRADE SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BEDDING MATERIAL OR FORMS. WET OR UNSTABLE SOIL ENCOUNTERED IN THE BOTTOM OF THE EXCAVATION AND DEEMED BY THE GEOTECHNICAL ENGINEER TO BE INCAPABLE OF PROPERLY SUPPORTING THE PIPE OR STRUCTURE BEING CONSTRUCTED, SHALL BE REMOVED TO THE DEPTH RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND THE EXCAVATION BACKFILLED TO THE BOTTOM OF THE PIPE OR STRUCTURE GRADE WITH SUITABLE MATERIAL RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

4. BEDDING AND BACKFILL MATERIAL SHALL BE TESTED FOR COMPLIANCE WITH APPLICABLE REQUIREMENTS BY THE GEOTECHNICAL ENGINEER.

5. BACKFILL COMPACTION SHALL BE TESTED IN ACCORDANCE WITH ASTM STANDARD D-1557, LATEST REVISION, AND REPORTED BY THE GEOTECHNICAL ENGINEER.

6. COMPACTION BY FLOODING OR JETTING IS NOT PERMITTED UNLESS SPECIFICALLY APPROVED BY THE GEOTECHNICAL ENGINEER AND THE CITY INSPECTOR.

7. TRENCH BACKFILL SHALL NOT BE PLACED UNTIL BEDDING AND INITIAL (PIPE ZONE) BACKFILL HAVE BEEN OBSERVED, TESTED AND APPROVED.

8. ALL WORK INVOLVING EXCAVATION INCLUDING THAT FOR WATER, STORM DRAIN, AND UTILITY CONDUITS AND ALL SERVICE CONNECTIONS AND METER BOXES SHALL BE COMPLETED, OBSERVED AND APPROVED BY THE AGENCY HAVING JURISDICTION AND THE STRUCTURAL BACKFILL OBSERVED, TESTED FOR COMPACTION AND APPROVED BEFORE AGGREGATE BASE, PAVING OR OTHER PERMANENT SURFACE CONSTRUCTION MAY COMMENCE.

9. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS, ORDINANCES, REGULATIONS, RULES, AND STANDARDS INCLUDING ALL REQUIREMENTS OF THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND OF CAL-OSHA.

10. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT AND SUBSUQUENT ADDENDUMS PREPARED FOR THIS PROJECT.

11. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SUCH SHEETING, SHORING, BRACING AND/OR OTHER PROTECTION AS IS NECESSARY TO PREVENT FAILURE OF TEMPORARY EXCAVATIONS.

SANTA BARBARA COUNTY AIR POLLUTION CONTROL DISTRICT STANDARD DUST CONTROL REQUIREMENTS

1. IN ADDITION TO THESE NOTES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DUST AND EROSION CONTROL REQUIREMENTS IDENTIFIED IN THE CONDITIONS OF APPROVAL. THE CONTRACTOR SHALL UTILIZE DUST CONTROL METHODS ON ANY DUST-PRODUCING CONDITION IN COMPLIANCE WITH REGULATIONS OF THE COUNTY OF SANTA BARBARA AIR POLLUTION CONTROL DISTRICT AND THE CITY OF GOLETA STANDARDS.

2. DUST GENERATED BY THE DEVELOPMENT ACTIVITIES SHALL BE RETAINED ONSITE AND KEPT TO A MINIMUM BY FOLLOWING THE DUST CONTROL MEASURES LISTED BELOW. RECLAIMED WATER SHALL BE USED WHENEVER POSSIBLE.

   A. DURING CLEARING, GRADING, EARTH MOVING OR EXCAVATION, WATER TRUCKS OR SPRINKLER SYSTEMS ARE TO BE USED IN SUFFICIENT QUANTITIES TO PREVENT DUST FROM LEAVING THE SITE AND TO CREATE A CRUST, AFTER EACH DAY'S ACTIVITIES CEASE.

   B. AFTER CLEARING, 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.

   C. 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 WETTING DOWN SUCH AREAS IN THE LATE MORNING AND AFTER WORK IS COMPLETED FOR THE DAY. INCREASED WATERING FREQUENCY WILL BE REQUIRED WHENEVER THE WIND SPEED EXCEEDS 15 MPH.

3. 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 TARPED FROM THE POINT OF ORIGIN.

4. 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 OFFSITE. THEIR DUTIES SHALL INCLUDE HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS. THE NAME AND TELEPHONE NUMBER OF SUCH PERSONS SHALL BE PROVIDED TO THE AIR POLLUTION CONTROL DISTRICT PRIOR TO LAND USE CLEARANCE.

5. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT AND METHODS REQUIRED TO PREVENT HIS 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 ANY DAMAGE CAUSED BY DUST RESULTING FROM GRADING OPERATIONS.

GRADING NOTES

1. ALL GRADING SHALL CONFORM WITH CITY OF GOLETA GRADING ORDINANCE AND STANDARDS PERTAINING THERETO, THESE CONSTRUCTION DOCUMENTS, ANY CONSTRUCTION RECOMMENDATIONS BY THE PROJECT GEOTECHNICAL ENGINEER (GEOSOLUTIONS, INC. WITH REPORT DATED APRIL 3, 2014; SEE SHEET 3), THE CONDITIONS OF APPROVAL AND THE PERMIT CONDITIONS.

2. THE SUPERVISION REQUIREMENTS OF CITY OF GOLETA GRADING ORDINANCE SHALL BE COMPLIED WITH AS FOLLOWS:
   A. THE ENGINEER SHALL BE A REPRESENTATIVE OF PENFIELD & SMITH.
   B. LINE AND GRADE STAKES SHALL BE SET BY SURVEYORS UNDER THE GENERAL SUPERVISION OF THE ENGINEER. THE ENGINEER SHALL PROVIDE GENERAL CONSTRUCTION REVIEW.
   C. THE GEOTECHNICAL ENGINEER SHALL PROVIDE GENERAL REVIEW OF THE GRADING AND SUBGRADE PREPARATION AND PERFORM COMPACTION TESTING AS NECESSARY TO ENSURE QUALITY CONSTRUCTION AND COMPLY WITH THE GRADING ORDINANCE.
   D. UPON COMPLETION OF CONSTRUCTION, THE ENGINEER SHALL PREPARE RECORD DRAWINGS AND SUBMIT A REPORT INDICATING THAT THE IMPROVEMENTS HAVE BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

3. IN ADDITION TO THESE NOTES, ALL GRADING SHALL CONFORM TO THE REQUIREMENTS CONTAINED IN THE PROJECT SOILS REPORT PREPARED BY GEOSOLUTIONS, INC. DATED APRIL 3, 2014 AND ANY SUBSEQUENT ADDENDUMS. **SEE GEOTECHNICAL REPORT RECOMMENDATIONS ON SHEET 3. EVEN THOUGH THE GEOTECHNICAL REPORT STATES THAT THE RECOMMENDATIONS ARE PRELIMINARY, NOTE THAT ALL GEOTECHNICAL RECOMMENDATIONS ARE MANDATORY AND COMPLIANCE WITH THEM IS REQUIRED UNLESS DETERMINED OTHERWISE BY THE PUBLIC WORKS INSPECTOR.**

4. UNDERGROUND SERVICE ALERT (U.S.A.) SHALL BE CONTACTED AT (800) 422-4133, FORTY-EIGHT (48) HOURS PRIOR TO START OF ANY GRADING OPERATIONS.

5. PRIOR TO ANY CONSTRUCTION, A GRADING PERMIT SHALL BE OBTAINED FROM THE CITY OF GOLETA COMMUNITY SERVICES DEPARTMENT AND A PRE-CONSTRUCTION MEETING SHALL BE HELD.

6. BEFORE BEGINNING GRADING OPERATION, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF GOLETA PUBLIC WORKS DEPARTMENT FOR HAUL ROUTES USED AND METHODS PROVIDED TO MINIMIZE THE DEPOSIT OF SOILS ON CITY ROADS. GRADING AND/OR PUBLIC WORKS INSPECTORS SHALL MONITOR THIS REQUIREMENT WITH THE CONTRACTOR.

7. NOISE GENERATING CONSTRUCTION ACTIVITIES SHALL BE LIMITED PER THE CONDITIONS OF APPROVAL. NO CONSTRUCTION SHALL OCCUR ON STATE HOLIDAYS (E.G. THANKSGIVING AND LABOR DAY). CONSTRUCTION EQUIPMENT MAINTENANCE SHALL BE LIMITED TO THE SAME HOURS. NON-NOISE GENERATING CONSTRUCTION ACTIVITIES ARE NOT SUBJECT TO THE SAME HOURS. STATIONARY CONSTRUCTION EQUIPMENT THAT GENERATES NOISE WHICH EXCEEDS 65 dBA AT THE PROJECT BOUNDARIES SHALL BE SHIELDED TO PLANNING & DEVELOPMENT'S SATISFACTION AND SHALL BE LOCATED A MINIMUM OF 200 FEET FROM OCCUPIED RESIDENCES.

8. ALL FILL SLOPES CREATED DURING THE GRADING OPERATION SHALL BE PROPERLY SHAPED TO A MAXIMUM SLOPE ANGLE OF TWO HORIZONTAL TO ONE VERTICAL AND RECOMPACTED BY ROLLING THE SHEEPSFOOT ROLLER OR SIMILAR COMPACTION EQUIPMENT OVER THE SLOPE FACE AT VERTICAL LIFT INTERVALS OF 8-INCHES OR LESS.

9. ALL CUT OR FILL AREAS SHALL BE CLEARED OF ALL VEGETATION, INCLUDING ROOTS AND ROOT STRUCTURES, AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURAL FILL. ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE AND TRANSPORTED TO A SUITABLE DISPOSAL AREA. PRIOR TO PLACING ANY FILL MATERIAL, THE AREA SHALL BE INSPECTED BY THE CITY GRADING INSPECTOR AND GEOTECH INSPECTOR (ALLOW 48 HOUR MINIMUM ADVANCED NOTICE).

10. APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO NOVEMBER 1ST AND SHALL BE MAINTAINED ON THE SITE THROUGH APRIL 15TH OF THE FOLLOWING YEAR OR PRIOR TO IMMINENT RAIN.

11. EARTH MOVING AND WORKING OPERATIONS SHALL BE CONTROLLED TO PREVENT WATER FROM RUNNING INTO EXCAVATED AREAS. EXCESS WATER SHALL BE PROMPTLY REMOVED AND THE SITE KEPT DRY. FILL MATERIAL SHALL NOT BE PLACED, SPREAD, OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IS INTERRUPTED BY HEAVY RAIN, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL FIELD TESTS BY THE GEOTECHNICAL ENGINEER INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL ARE ABLE TO BE PLACED AND MEET THE REQUIRED COMPACTION.

12. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS NOT SUFFICIENT TO ACHIEVE REQUIRED COMPACTION, WATER SHALL BE ADDED UNTIL THE SOILS ATTAIN A MOISTURE CONTENT SO THAT THOROUGH BONDING IS ACHIEVED DURING THE COMPACTING PROCESS. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS EXCESSIVE, THE FILL MATERIAL SHALL BE AERATED BY BLADING OR OTHER SATISFACTORY METHODS UNTIL THE MOISTURE CONTENT IS REDUCED TO AN ACCEPTABLE CONTENT TO ACHIEVE PROPER COMPACTION.

13. IMPORT OR ON-SITE SOILS USED IN FILL OPERATIONS SHALL BE FREE FROM ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIALS. DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER SHALL PERIODICALLY EXAMINE THE SOILS FOR ORGANIC CONTENT. IF THE GEOTECHNICAL ENGINEER SHALL DETERMINE AN EXCESS ORGANIC CONTENT IN THE FILL SOIL HE MAY ISSUE A WRITTEN NOTICE OF NON-COMPLIANCE AND NOTIFY THE CITY PUBLIC WORKS INSPECTOR.

14. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR AND THE ENGINEER AT LEAST 48 HOURS BEFORE START OF ANY GRADING WORK. THEY SHALL BE NOTIFIED OF THE TIME AND LOCATION OF THE PRE-CONSTRUCTION CONFERENCE.

TRAFFIC REQUIREMENTS DURING CONSTRUCTION

1. CONTRACTOR SHALL PERFORM ALL WORK AT NIGHT BETWEEN THE HOURS OF 7 P.M. AND 6 A.M.

2. CONTRACTOR SHALL PROVIDE PEDESTRIAN AND BICYCLE ACCESS ALONG HOLLISTER AVENUE AT ALL TIMES.

3. CONTRACTOR SHALL SIGN STORKE ROAD FOR BICYCLISTS TO SHARE THE ROAD.

STREET NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN SUCH FENCES, BARRICADES, LIGHTS AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES. TEMPORARY TRAFFIC CONTROL SHALL BE APPROVED BY THE CITY OF GOLETA COMMUNITY SERVICES DEPARTMENT.

2. ALL EXCAVATIONS OR TRENCHES IN PAVED AREAS SHALL REQUIRE SAW CUTTING IN A NEAT AND UNIFORM MANNER. ALL MATCH OR JOIN LINES TO EXISTING ASPHALT CONCRETE PAVING SHALL BE SAWCUT.

3. CONTRACTOR TO LOCATE, PROTECT, AND REPAIR AT HIS EXPENSE, ANY UTILITIES DAMAGED BY HIS FORCES.

4. THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED PLANS AND SPECIFICATIONS FOR THIS PROJECT ON THE SITE AT ALL TIMES, AND THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.

5. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

6. ALL CURBS SHALL BE STAKED AT 25 FOOT INTERVALS FOR GRADE CONTROL.

7. ASPHALT CONCRETE AND CLASS 2 AGGREGATE BASE THICKNESS FOR STREETS SHALL BE DETERMINED BY "R" VALUE TAKEN ON THE COMPLETED SUBGRADE BY THE GEOTECHNICAL ENGINEER, BUT IN NO CASE SHALL IT BE LESS THAN THE MINIMUM THICKNESS SHOWN IN GEOTECHNICAL STUDY.

8. ALL UNDERGROUND UTILITIES AND SUBSTRUCTURES AS SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND ARE PRESUMED TO BE ACCURATE AND COMPLETE. SINCE THE INFORMATION WAS OBTAINED FROM OTHERS. THE OFFICE OF PENFIELD & SMITH CANNOT GUARANTEE OR BE RESPONSIBLE FOR SAID INFORMATION TO BE ACCURATE.

9. OTHER IMPROVEMENTS, IN ADDITION TO THAT SHOWN ON THESE PLANS ARE PROPOSED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK AND INTERFACING IMPROVEMENTS WITH WORK BY OTHER CONTRACTORS AT THIS JOB SITE AND WITH IMPROVEMENTS REQUIRED BY PLANS BY OTHERS.

10. COMPACTION OF FILL, SUBGRADE AND BASE COURSES AS WELL AS ALL TRENCH BEDDING AND BACKFILL SHALL BE OBSERVED AND TESTED FOR COMPLIANCE WITH APPLICABLE REQUIREMENTS BY THE GEOTECHNICAL ENGINEER AND CITY PUBLIC WORKS INSPECTOR.

11. ALL WORK INVOLVING EXCAVATION INCLUDING THAT FOR WATER, SEWER, STORM DRAIN AND DRY UTILITY CONDUITS AND ALL SERVICE CONNECTIONS AND METER BOXES SHALL BE COMPLETED AND OBSERVED AND APPROVED BY THE AGENCY HAVING JURISDICTION AND THE STRUCTURAL BACKFILL OBSERVED AND TESTED FOR COMPACTION AND APPROVED BEFORE AGGREGATE BASE, PAVING AND OTHER PERMANENT SURFACE CONSTRUCTION MAY COMMENCE.

12. THE CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANIES (SCE, GTE, COX CABLE & SCG) FOR ALL REQUIRED CONDUIT CROSSINGS AND SLEEVES PRIOR TO ROAD PAVING.

13. THE CONTRACTOR SHALL SLURRY ANY PORTION OF ROAD WITHIN THE LIMITS OF THE PROPOSED STRIPING MODIFICATIONS AS NOTED ON THESE PLANS.

SPECIFICATIONS

1. ASPHALT CONCRETE PAVING MATERIALS (A.C.) AND PROCESSES SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 39.

2. AGGREGATE BASE MATERIALS (A.B.) SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 26.

3. GRADING FOR SUBGRADE SHALL BE COMPLETED TO WITHIN TOLERANCES GIVEN IN CALTRANS SPECIFICATIONS SECTION 19. SOIL SHALL BE TESTED FOR COMPACTION AND R-VALUE AND INSPECTED BEFORE BASE, PAVING, OR ANY OTHER PERMANENT SURFACE CONSTRUCTION MAY COMMENCE.

4. CONCRETE FOR CURBS AND GUTTERS SHALL BE CALTRANS CLASS 2 WITH 25% FLY-ASH WITH A LIGHT BROOM FINISH. CONCRETE FOR SIDEWALKS AND CURB RAMPS SHALL BE CALTRANS CLASS 3 OR BETTER WITH 25% FLY-ASH; WHEN CONCRETE IS ALSO BEING USED FOR DRIVEWAYS AND GUTTERS, IT SHALL BE CLASS 2 OR BETTER. CONCRETE FOR DRAINAGE STRUCTURES SHALL MEET THE REQUIREMENTS OF CALTRANS STANDARD SPECIFICATIONS, SECTION 90, CLASS 2 WITH 25% FLY-ASH.

5. SLURRY SEAL SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 37.

6. ALL PAVEMENT DELINEATION WORK AND ROADSIDE SIGN WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 CALTRANS STANDARD SPECIFICATIONS SECTION 84 AND STANDARD PLANS, AND THE CONTRACT SPECIAL PROVISIONS.

7. TRAFFIC SIGNAL AND ALL TRAFFIC SIGNAL RELATED ITEMS SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 86.

8. PAINT BIKE LANE AREA WITH GREEN REFLECTIVE PAINT PER SPECIAL PROVISIONS.

9. EXISTING PALM TREES SHALL BE ASSESSED BY AN ARBORIST FOR DETERMINATION ON WHETHER OR NOT IT IS VIABLE FOR RELOCATION OR REMOVAL. CONTRACTOR SHALL COORDINATE WITH RINCON PALMS OWNERSHIP ON POTENTIAL RELOCATION AREAS.

UTILITY INFORMATION AND NOTES

SANITARY SEWER:	GOLETA WEST SANITARY DISTRICT	(805) 967-2617
WATER:	GOLETA WATER DISTRICT	(805) 964-6761
GAS:	THE GAS COMPANY	(805) 965-4896
GAS TRANSMISSION	THE GAS COMPANY	(805) 965-4896
ELECTRICAL:	SOUTHERN CALIFORNIA EDISON	(805) 683-5262
TELEPHONE:	VERIZON	(805) 966-0331
CABLE:	COX COMMUNICATIONS	(805) 683-7751

1. THE SERVICE LATERALS FOR GAS, ELECTRICAL, TELEPHONE, AND CABLE T.V. SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S PLANS.

2. ALL UTILITY FACILITIES FOR ELECTRIC, GAS, CABLE T.V. AND TELEPHONE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S PLANS, STANDARDS AND SPECIFICATIONS.

3. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ALL REQUIRED CONDUIT CROSSINGS AND SLEEVES PRIOR TO ROAD PAVING.

4. **CONTACT KARL MONTELEONE WITH SO. CAL. GAS CO. AT (818) 681-7945 PRIOR TO ANY TEMPORARY OR PERMANENT CONSTRUCTION WITHIN 15' OF THE EDGE OF ANY HIGH PRESSURE GAS LINE.**

UNDERGROUND UTILITIES:

ANY UNDERGROUND UTILITIES AND SUBSTRUCTURES AS SHOWN HEREON WERE TAKEN FROM THE BEST AVAILABLE SOURCES AND ARE PRESUMED TO BE ACCURATE AND COMPLETE, BUT SINCE THE INFORMATION WAS OBTAINED FROM OTHERS, THE OFFICE OF PENFIELD & SMITH CANNOT GUARANTEE SAID INFORMATION AS BEING ACCURATE.

UNDERGROUND SERVICE ALERT (U.S.A.)

TELEPHONE UNDERGROUND SERVICE ALERT AT 1-800-422-4133 FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
Engineering · Surveying · Planning · Construction Management ·
111 East Victoria Street, Santa Barbara, CA 93101
Phone: (805) 963-9532 Fax: (805) 966-9801

DESIGN PAS CHECKED
DON. E. DONALDSON DATE: 4-6-15
PROJECT ENGINEER
R.C.E. 36,364

REGISTERED PROFESSIONAL ENGINEER DON E. DONALDSON NO 36364 CIVIL STATE OF CALIFORNIA

CITY OF GOLETA, CALIFORNIA
REVIEWED BY:
SIGNATURE DATE 4-6-15

STORKE RD. NB AT HOLLISTER AVE.
STREET WIDENING IMPROVEMENTS
GENERAL NOTES
CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 2 OF 11
PLAN DATE 1/05/15

36-ENG SAVE DATE: 1/5/2015 9:51:26 AM PLOT BY:Pete Silvio PLOT DATE:1/5/2015 9:58:30 AM PLOT SCALE:1:1

DRAWING:r:\acad\work\17535\offsite\20-storke & hollister\17535storke.dwg

SYMBOL LEGEND

Symbol	Description
— — —	PROPOSED RIGHT-OF-WAY
— — —	EXISTING RIGHT-OF-WAY
	MAJOR CONTOUR
- - - -	MINOR CONTOUR
W	EXIST. WATER LINE
RW	EXIST. RECLAIMED WATER LINE
S	EXIST. SEWER LINE
SD	EXIST. STORM DRAIN LINE
G	EXIST. GAS LINE
E	EXIST. ELECTRICAL LINE
COMM	EXIST. COMMUNICATION LINE
OHW	EXIST. OVERHEAD WIRE LINE
FOC	EXIST. FIBER OPTIC CABLE
	EXIST. WALL
×	EXIST. FENCE LINE
	EXIST. EDGE OF PAVEMENT
W	PROP. WATER LINE
RW	PROP. RECLAIMED WATER LINE
S	PROP. SEWER LINE
SD	PROP. STORM DRAIN LINE
G	PROP. GAS LINE
E	PROP. ELECTRICAL CONDUIT (S.C.E.)
U	COMMON UTILITY TRENCH (S.C.E, G.T.E., CATV AND S.C.G.)
OHW	PROP. OVERHEAD WIRE LINE
→ →	PROP. FLOW LINE
	RETAINING, SOUND OR FLOOD WALL
^	SAWCUT LINE
	CONSTRUCTION CENTERLINE
- - - -	PROPOSED TOP/TOE OF SLOPE
	PROPOSED EDGE OF PAVEMENT
TR	PROPOSED TRAFFIC SIGNAL CONDUIT
	PROPOSED METAL GUARD RAILING
C	PROPOSED CROWN LINE
	FLOWLINE
	CONCRETE
	MANHOLE
	POWER POLE
213.70	SPOT ELEVATION
	TREE REMOVAL
	DOMESTIC WATER METER
	RECLAIMED WATER METER
●ED	END DRAIN
●AV	AIR VALVE
	APPROXIMATE TREE DRIP LINE (FROM AERIAL DATA)
(100.00)	EXISTING GRADE
(10)	DESIGNATES CONSTRUCTION NOTE
WM	METER OR IRRIGATION CONTROL VALVE
	PROP. ASPHALT CONCRETE
	PROP. GRIND & VARIABLE OVERLAY
	PROP. ASPHALT CONCRETE IN SECTION

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
AB	AGGREGATE BASE
ANG. PT.	ANGLE POINT
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BM	BENCHMARK
BVC	BEGIN VERTICAL CURVE
BW	BACK OR WALK
CIP	CAST IRON PIPE
CJ	CRACK CONTROL JOINT
CL	CLASS
CCL	CONSTRUCTION CENTERLINE
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
C&G	CURB AND GUTTER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CATV	CABLE TELEVISION
DBL.	DOUBLE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWY	DRIVEWAY
E	ELECTRICAL
EC	END CURVE
ECR	END CURB RETURN
EJ	EXPANSION JOINT
EL OR ELEV.	ELEVATION
EMH	SCE ELECTRICAL MANHOLE
EOP	EDGE OF PAVEMENT
ESM'T	EASEMENT
EVC	END VERTICAL CURVE
EX. OR EXIST.	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FLG	FLANGE
FS	FINISH SURFACE/TOP OF CONCRETE
G	GAS
GM	GAS METER
GB	GRADE BREAK
GSP	GALVINIZED STEEL PIPE
GUT	GUTTER
HP	HIGH POINT
HYD	HYDRANT
INT.	INTERSECTION
INV	INVERT OF PIPE/FLOWLINE
ICV	IRRIGATION CONTROL VALVE
IRR.	IRRIGATION
L	LENGTH
LGTP.	LIGHT POLE
LF	LINEAL FEET
LP	LOW POINT
LT.	LEFT
MH	MANHOLE
MJ	MECHANICAL JOINT
MGS	MIDWEST GUARDRAIL SYSTEM
MOC	MIDDLE OF CURVE
N.I.C.	NOT IN CONTRACT

NTS	NOT TO SCALE
OC	ON CURB
OHW	OVERHEAD WIRE
PB	PULL BOX
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION (CURVE TANGENTS)
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PROP.	PROPOSED
PSE	PRIVATE STREET EASEMENT
PUE	PUBLIC UTILITIES EASEMENT
PVC	POLY-VINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCAP	REINFORCED CONCRETE ARCH PIPE
RIM	RIM OF MANHOLE
R/W OR ROW	RIGHT-OF-WAY
RT.	RIGHT
S	SEWER
SB	SUBBASE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SH	SPRINKLER HEAD
SL	STREET LIGHT
STA	STATION
STD. DET.	STANDARD DETAIL
SW	SIDEWALK
T	TELEPHONE
TB	THRUST BLOCK
TC	TOP OF CURB
TD	TOP OF DIKE
TF	TOP OF FOOTING
TG	TOP OF GRATE
TI	TRAFFIC INDEX
TL	TRAFFIC LIGHT
TP	TOP OF PAVEMENT
TSP	TUBULAR STEEL POLE
TSPB	TRAFFIC SIGNAL PULL BOX
TYP	TYPICAL
TW	TOP OF WALL
VCP	VITRIFIED CLAY PIPE
VLT.	VAULT
VLV.	VALVE
VPI	VERTICAL POINT OF INTERSECTION (CURVE TANGENTS)
W	WATER
WM	WATER METER
WV	WATER VALVE
Δ	DELTA (CURVE CENTRAL ANGLE)
±	APPROXIMATELY
%	PERCENT
<	LESS THAN
>	GREATER THAN

GEOTECHNICAL REPORT RECOMMENDATIONS

PREPARATION OF RETAINING WALL FOOTING:

1. IT IS ANTICIPATED THAT A GRADED ENGINEERED FILL PAD WILL BE DEVELOPED FOR THE PROPOSED RETAINING FOUNDATION SYSTEM WITH FOOTINGS FOUNDED IN ENGINEERED FILL.
2. FOR THE DEVELOPMENT OF AN ENGINEERED FILL PAD, THE NATIVE MATERIAL SHOULD BE OVER-EXCAVATED AT LEAST 24 INCHES BELOW THE BOTTOM OF THE FOOTINGS, TO COMPETENT MATERIAL, OR TO ONE-HALF THE DEPTH OF THE DEEPEST FILL (MEASURED FROM THE BOTTOM OF THE DEEPEST FOOTINGS); WHICHEVER IS GREATEST. THE LIMITS OF OVER-EXCAVATION SHOULD EXTEND A MINIMUM OF 1 FEET BEYOND THE PERIMETER FOUNDATION. THE EXPOSED SURFACE SHOULD BE SCARIFIED TO A DEPTH OF 12 INCHES; MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557-07). THE OVER-EXCAVATED MATERIAL SHOULD THEN BE PROCESSED AS ENGINEERED FILL. ONSITE SOIL AND ROCK MATERIAL IS SUITABLE AS FILL MATERIAL PROVIDED IT IS PROCESSED TO REMOVE CONCENTRATIONS OF ORGANIC MATERIAL, DEBRIS, AND OTHER PARTICLES. IMPORTED FILL SHOULD MEET THE REQUIREMENTS OF THE GRADING PLAN. GEOSOLUTIONS, INC. SHOULD BE NOTIFIED AT LEAST 72 HOURS PRIOR TO DELIVERY TO THE SITE TO SAMPLE AND TEST PROPOSED IMPORTED FILL MATERIALS. REFER TO APPENDIX D FOR UNDER-SLAB DRAINAGE MATERIAL AND FOR MORE DETAILS ON FILL PLACEMENT.
3. IF FILL AREAS ARE CONSTRUCTED ON SLOPES GREATER THAN 10 TO 1 (HORIZONTAL TO VERTICAL), WE RECOMMEND THAT BENCHES BE CUT EVERY FOUR FEET AS FILL IS PLACED. EACH BENCH SHALL BE A MINIMUM OF 10 FEET WIDE WITH A MINIMUM OF TWO PERCENT GRADIENT INTO THE SLOPE. IF FILL AREAS ARE CONSTRUCTED ON SLOPES GREATER THAN 5 TO 1, WE RECOMMEND THAT THE TOE OF ALL AREAS TO RECEIVE FILL BE KEYED A MINIMUM OF 24 INCHES INTO UNDERLYING DENSE MATERIAL. SUB-DRAINS SHALL BE PLACED IN THE KEYWAY AND BENCHES AS REQUIRED. SEE APPENDIX D, DETAIL A, KEY AND BENCH WITH BACKDRAIN FOR DETAILS ON KEY AND BENCH CONSTRUCTION.

PREPARATION OF PAVED AREAS:

1. PAVEMENT AREAS SHOULD BE OVER-EXCAVATED 12 INCHES BELOW EXISTING GRADE OR FINISHED SUB-GRADE; WHICHEVER IS DEEPER. THE EXPOSED SURFACE SHOULD BE SCARIFIED AN ADDITIONAL DEPTH OF EIGHT INCHES, MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557-07 TEST METHOD). THE OVER-EXCAVATED SOIL SHOULD THEN BE MOISTURE CONDITIONED TO PRODUCE A WATER-CONTENT OF AT LEAST TWO PERCENT ABOVE OPTIMUM VALUE AND THEN COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT. THE TOP 12 INCHES OF SUB-GRADE SOIL UNDER ALL PAVEMENT SECTIONS SHOULD BE COMPACTED TO A MINIMUM RELATIVE DENSITY OF 95 PERCENT BASED ON THE ASTM D1557-07 TEST METHOD AT SLIGHTLY ABOVE OPTIMUM.
2. SUB-GRADE SOILS SHOULD NOT BE ALLOWED TO DRY OUT OR HAVE EXCESSIVE CONSTRUCTION TRAFFIC BETWEEN MOISTURE CONDITIONING AND COMPACTION, AND PLACEMENT OF THE PAVEMENT STRUCTURAL SECTION.
3. IF UNSTABLE SUBGRADE CONDITIONS ARE ENCOUNTERED DURING ROADWAY GRADING OPERATIONS, GEOSOLUTIONS, INC. RECOMMENDS THAT A LATERALLY-REINFORCING BIAXIAL GEOGRID, SUCH AS TENSAR BX1200 OR EQUIVALENT, SHOULD BE INSTALLED TO REINFORCE THE BASE COURSES UNDER PAVED AREAS AT THE SITE.
4. GEOSOLUTIONS, INC. SHOULD BE CONTACTED PRIOR TO THE DESIGN AND CONSTRUCTION OF PAVEMENT SECTIONS AT THE SITE IN ORDER TO ASSIST IN THE SELECTION OF AN APPROPRIATE LATERALLY-REINFORCING BIAXIAL GEOGRID PRODUCT AND TO PROVIDE RECOMMENDATIONS REGARDING THE PROCEDURES FOR THE INSTALLATION OF GEOGRID PRODUCTS AT THE SITE.

PAVEMENT DESIGN:

1. ALL PAVING CONSTRUCTION AND MATERIALS USED SHOULD CONFORM TO APPLICABLE SECTIONS OF THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS).
2. PROPOSED ROADWAY WIDENING AND IMPROVEMENTS ALONG HOLLISTER AVENUE AND STORKE ROAD NOT ACCESSIBLE AT THE TIME OF OUR INVESTIGATION MAY BE DESIGNED WITH THE FOLLOWING ASPHALT PAVEMENT SECTIONS PROVIDED IN TABLE 3. A REPRESENTATIVE OF GEOSOLUTIONS, INC. SHOULD BE PRESENT DURING GRADING OPERATIONS FOR THE PROPOSED ROADWAY IMPROVEMENTS AND WINDING TO VERIFY SUBGRADE MATERIAL REPRESENT THE MATERIALS OBSERVED AND TESTED DURING OUR FIELD INVESTIGATION.
3. AS INDICATED PREVIOUSLY, THE TOP 12 INCHES OF SUB-GRADE SOIL UNDER ASPHALTIC CONCRETE PAVEMENT SECTIONS SHOULD BE COMPACTED TO A MINIMUM RELATIVE DENSITY OF 95 PERCENT BASED ON THE ASTM D1557-91 TEST METHOD AT TWO PERCENT ABOVE OPTIMUM MOISTURE CONTENT. AGGREGATE BASES AND SUB-BASES SHOULD ALSO BE COMPACTED TO A MINIMUM RELATIVE DENSITY OF 95 PERCENT BASED ON THE AFOREMENTIONED TEST METHOD.
4. THE FOLLOWING TABLE PROVIDES THE RECOMMENDED HOT MIX ASPHALT (HMA) PAVEMENT SECTIONS BASED ON THE R-VALUES PROVIDED IN TABLE 2; RECOMMENDED PAVEMENT STRUCTURAL SECTIONS.
5. ALL PAVEMENT SECTIONS SHOULD BE CROWNED FOR GOOD DRAINAGE. ALL PAVEMENT CONSTRUCTION AND MATERIALS USED SHOULD CONFORM TO SECTIONS 25, 26, AND 39 OF THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS).

TABLE 2

LOCATION	R-VALUE	T.I.	A.C. (IN.)	A.B. (IN.)
STORKE RD.	10	11.0	7.0	24.0
HOLLISTER AVE.	11	11.0	7.0	24.0

APPENDIX D – PRELIMINARY GRADING SPECIFICATIONS:

GENERAL:

1. THESE PRELIMINARY SPECIFICATIONS HAVE BEEN PREPARED FOR THE SUBJECT SITE; GEOSOLUTIONS, INC. SHOULD BE CONSULTED PRIOR TO THE COMMENCEMENT OF SITE WORK ASSOCIATED WITH SITE DEVELOPMENT TO ENSURE COMPLIANCE WITH THESE SPECIFICATIONS.
2. GEOSOLUTIONS, INC. SHOULD BE NOTIFIED AT LEAST 72 HOURS PRIOR TO SITE CLEARING OR GRADING OPERATIONS ON THE PROPERTY IN ORDER TO OBSERVE THE STRIPPING OF SURFACE MATERIALS AND TO COORDINATE THE WORK WITH THE GRADING CONTRACTOR IN THE FIELD.
3. THESE GRADING SPECIFICATIONS MAY BE MODIFIED AND/OR SUPERSEDED BY RECOMMENDATIONS CONTAINED IN THE TEXT OF THIS REPORT AND/OR SUBSEQUENT REPORTS.
4. IF DISPUTES ARISE OUT OF THE INTERPRETATION OF THESE GRADING SPECIFICATIONS, THE SOILS ENGINEER SHALL PROVIDE THE GOVERNING INTERPRETATION.

OBLIGATION OF PARTIES:

1. THE SOILS ENGINEER SHOULD PROVIDE OBSERVATION AND TESTING SERVICES AND SHOULD MAKE EVALUATIONS TO ADVISE THE CLIENT ON GEOTECHNICAL MATTERS. THE SOILS ENGINEER SHOULD REPORT THE FINDINGS AND RECOMMENDATIONS TO THE CLIENT OR THE AUTHORIZED REPRESENTATIVE.
2. THE CLIENT SHOULD BE CHIEFLY RESPONSIBLE FOR ALL ASPECTS OF THE PROJECT. THE CLIENT OR AUTHORIZED REPRESENTATIVE HAS THE RESPONSIBILITY OF REVIEWING THE FINDINGS AND RECOMMENDATIONS OF THE SOILS ENGINEER. DURING GRADING THE CLIENT OR THE AUTHORIZED REPRESENTATIVE SHOULD REMAIN ONSITE OR SHOULD REMAIN REASONABLY ACCESSIBLE TO ALL CONCERNED PARTIES IN ORDER TO MAKE DECISIONS NECESSARY TO MAINTAIN THE FLOW OF THE PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SATISFACTORY COMPLETION OF ALL GRADING AND OTHER OPERATIONS OF CONSTRUCTION PROJECTS, INCLUDING, BUT NOT LIMITED TO, EARTHWORK IN ACCORDANCE WITH PROJECT PLANS, SPECIFICATIONS, AND CONTROLLING AGENCY REQUIREMENTS.

SITE PREPARATION

1. THE CLIENT, PRIOR TO ANY SITE PREPARATION OR GRADING, SHOULD ARRANGE AND ATTEND A MEETING WHICH INCLUDES THE GRADING CONTRACTOR, THE DESIGN STRUCTURAL ENGINEER, THE SOILS ENGINEER, REPRESENTATIVES OF THE LOCAL BUILDING DEPARTMENT, AS WELL AS ANY OTHER CONCERNED PARTIES. ALL PARTIES SHOULD BE GIVEN AT LEAST 72 HOURS NOTICE.
2. ALL SURFACE AND SUB-SURFACE DELETERIOUS MATERIALS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS AND DISPOSED OF OFF-SITE OR AS APPROVED BY THE SOILS ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO: ANY DEBRIS, ORGANIC MATERIALS, CONSTRUCTION SPOILS, BURIED UTILITY LINE, SEPTIC SYSTEMS, BUILDING MATERIALS, AND ANY OTHER SURFACE AND SUBSURFACE STRUCTURES WITHIN THE PROPOSED BUILDING AREAS. TREES DESIGNATED FOR REMOVAL ON THE CONSTRUCTION PLANS SHOULD BE REMOVED AND THEIR PRIMARY ROOT SYSTEMS GRUBBED UNDER THE OBSERVATIONS OF A REPRESENTATIVE OF GEOSOLUTIONS, INC. VOIDS LEFT FROM SITE CLEARING SHOULD BE CLEANED AND BACKFILLED AS RECOMMENDED FOR STRUCTURAL FILL.
3. ONCE THE SITE HAS BEEN CLEARED, THE EXPOSED GROUND SURFACE SHOULD BE STRIPPED TO REMOVE SURFACE VEGETATION AND ORGANIC SOIL. A REPRESENTATIVE OF GEOSOLUTIONS, INC. SHOULD DETERMINE THE REQUIRED DEPTH OF STRIPPING AT THE TIME OF WORK BEING COMPLETED. STRIPPINGS MAY EITHER BE DISPOSED OF OFF-SITE OR STOCKPILED FOR FUTURE USE IN LANDSCAPE AREAS, IF APPROVED BY THE LANDSCAPE ARCHITECT.

SITE PROTECTION

1. PROTECTION OF THE SITE DURING THE PERIOD OF GRADING AND CONSTRUCTION SHOULD BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHOULD BE RESPONSIBLE FOR THE STABILITY OF ALL TEMPORARY EXCAVATIONS.
3. DURING PERIOD OF RAINFALL, PLASTIC SHEETING SHOULD BE KEPT REASONABLY ACCESSIBLE TO PREVENT UNPROTECTED SLOPES FROM BECOMING SATURATED. WHERE NECESSARY DURING PERIODS OF RAINFALL, THE CONTRACTOR SHOULD INSTALL CHECK-DAMS, DE-SILTING BASINS, SAND BAGS, OR OTHER DEVICES OR METHODS NECESSARY TO CONTROL EROSION AND PROVIDE SAFE CONDITIONS.

GEOTECHNICAL REPORT RECOMMENDATIONS

APPENDIX D – PRELIMINARY GRADING SPECIFICATIONS CONTINUED:

EXCAVATIONS

1. MATERIALS THAT ARE UNSUITABLE SHOULD BE EXCAVATED UNDER THE OBSERVATION AND RECOMMENDATIONS OF THE SOILS ENGINEER. UNSUITABLE MATERIALS INCLUDE, BUT MAY NOT BE LIMITED TO: 1) DRY, LOOSE, SOFT, WET, ORGANIC, OR COMPRESSIBLE NATURAL SOILS; 2) FRACTURED, WEATHERED, OR SOFT BEDROCK; 3) NON-ENGINEERED FILL; 4) OTHER DELETERIOUS MATERIALS; AND 5) MATERIALS IDENTIFIED BY THE SOILS ENGINEER OR ENGINEERING GEOLOGIST.
2. UNLESS OTHERWISE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE LOCAL BUILDING OFFICIAL, PERMANENT CUT SLOPES SHOULD NOT BE STEEPER THAN 2:1 (HORZ TO VERT). FINAL SLOPE CONFIGURATIONS SHOULD CONFORM TO SECTION 1804 OF THE 2013 CALIFORNIA BUILDING CODE UNLESS SPECIFICALLY MODIFIED BY THE SOIL ENGINEER/ENGINEERING GEOLOGIST.
3. THE SOIL ENGINEER/ENGINEER GEOLOGIST SHOULD REVIEW CUT SLOPES DURING EXCAVATIONS. THE CONTRACTOR SHOULD NOTIFY THE SOILS ENGINEER/ENGINEER GEOLOGIST PRIOR TO BEGINNING SLOPE EXCAVATIONS.

STRUCTURAL FILL

1. STRUCTURAL FILL SHOULD NOT CONTAIN ROCKS LARGER THAN 3 INCHES IN GREATEST DIMENSION, AND SHOULD HAVE NO MORE THAN 15 PERCENT LARGER THAN 2.5 INCHES IN GREATEST DIMENSION.
2. IMPORTED FILL SHOULD BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIAL AND SHOULD HAVE VERY LOW EXPANSION POTENTIAL, WITH A PLASTICITY INDEX OF 12 OR LESS. BEFORE DELIVERY TO THE SITE, A SAMPLE OF THE PROPOSED IMPORT SHOULD BE TESTED IN OUR LABORATORY TO DETERMINE ITS SUITABILITY FOR USE AS STRUCTURAL FILL.

COMPACTED FILL

1. STRUCTURAL FILL USING APPROVED IMPORT OR NATIVE SHOULD BE PLACED IN HORIZONTAL LAYERS, EACH APPROXIMATELY 8 INCHES IN THICKNESS BEFORE COMPACTION. ONSITE INORGANIC SOIL OR APPROVED IMPORTED FILL SHOULD BE CONDITIONED WITH WATER TO PRODUCE A SOIL WATER CONTENT NEAR OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT BASED ON ASTM D1557-07.
2. FILL SLOPES SHOULD NOT BE CONSTRUCTED AT GRADIENTS GREATER THAN 2 TO 1 (HORZ TO VERT). THE CONTRACTOR SHOULD NOTIFY THE SOILS ENGINEER/ENGINEER GEOLOGIST PRIOR TO BEGINNING SLOPE EXCAVATIONS.
3. IF FILL AREAS ARE CONSTRUCTED ON SLOPES GREATER THAN 10 TO 1 (HORZ TO VERT), WE RECOMMEND THAT BENCHES BE CUT EVERY 4 FEET AS FILL IS PLACED. EACH BENCH SHALL BE A MINIMUM OF 10 FEET WIDE WITH A MINIMUM OF 2 PERCENT GRADIENT INTO THE SLOPE.
4. IF FILL AREAS ARE CONSTRUCTED ON SLOPES GREATER THAN 5 TO 1, WE RECOMMEND THAT THE TOE OF ALL AREAS TO RECEIVE FILL BE KEYED A MINIMUM OF 24 INCHES INTO UNDERLYING DENSE MATERIAL. KEY DEPTHS ARE TO BE OBSERVED AND APPROVED BY A REPRESENTATIVE OF GEOSOLUTIONS, INC. SUBDRAINS SHALL BE PLACED IN THE KEYWAY AND BENCHES AS REQUIRED.

DRAINAGE

1. PROTECTION OF THE SITE DURING THE PERIOD OF GRADING AND CONSTRUCTION SHOULD BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHOULD BE RESPONSIBLE FOR THE STABILITY OF ALL TEMPORARY EXCAVATIONS.
3. DURING PERIOD OF RAINFALL, PLASTIC SHEETING SHOULD BE KEPT REASONABLY ACCESSIBLE TO PREVENT UNPROTECTED SLOPES FROM BECOMING SATURATED. WHERE NECESSARY DURING PERIODS OF RAINFALL, THE CONTRACTOR SHOULD INSTALL CHECK-DAMS, DE-SILTING BASINS, SAND BAGS, OR OTHER DEVICES OR METHODS NECESSARY TO CONTROL EROSION AND PROVIDE SAFE CONDITIONS.

UNDERGROUND FACILITIES CONSTRUCTION

1. THE ATTENTION OF CONTRACTORS, PARTICULARLY THE UNDERGROUND CONTRACTORS, SHOULD BE DRAWN TO THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS FOR "EXCAVATIONS, TRENCHES, EARTHWORK." TRENCHES OR EXCAVATIONS GREATER THAN 5 FEET IN DEPTH SHOULD BE SHORED OR SLOPED BACK IN ACCORDANCE WITH OSHA REGULATIONS PRIOR TO ENTRY.
2. BEDDING IS DEFINED AS MATERIAL PLACED IN A TRENCH UP TO 1 FOOT ABOVE A UTILITY PIPE AND BACKFILL IS ALL MATERIAL PLACED IN THE TRENCH ABOVE THE BEDDING. UNLESS CONCRETE BEDDING IS REQUIRED AROUND UTILITY PIPES, FREE-DRAINING SAND SHOULD BE USED AS BEDDING. SAND TO BE USED AS BEDDING SHOULD BE TESTED IN OUR LABORATORY TO VERIFY ITS SUITABILITY AND TO MEASURE ITS COMPACTION CHARACTERISTICS. SAND BEDDING SHOULD BE COMPACTED BY MECHANICAL MEANS TO ACHIEVE AT LEAST 90 PERCENT RELATIVE DENSITY BASED ON ASTM D1557-07.
3. ONSITE INORGANIC SOILS, OR APPROVED IMPORT, MAY BE USED AS UTILITY TRENCH BACKFILL. PROPER COMPACTION OF TRENCH BACKFILL WILL BE NECESSARY UNDER AND ADJACENT TO STRUCTURAL FILL, BUILDING FOUNDATIONS, CONCRETE SLABS, AND VEHICLE PAVEMENTS. IN THESE AREAS, BACKFILL SHOULD BE CONDITIONED WITH WATER (OR ALLOWED TO DRY), TO PRODUCE A SOIL WATER CONTENT OF ABOUT 2 TO 3 PERCENT ABOVE THE OPTIMUM VALUE AND PLACED IN HORIZONTAL LAYERS, EACH NOT EXCEEDING 8 INCHES IN THICKNESS BEFORE COMPACTION. EACH LAYER SHOULD BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE DENSITY BASE DON ASTM D1557-07. THE TOP LIFT OF TRENCH BACKFILL UNDER VEHICLE PAVEMENTS SHOULD BE COMPACTED TO THE REQUIREMENTS GIVEN IN REPORT UNDER PREPARATION OF PAVED AREAS FOR VEHICLE PAVEMENT SUBGRADES. TRENCH WALLS MUST BE KEPT MOIST PRIOR TO AND DURING BACKFILL PLACEMENT.

LIST OF STANDARDS

COUNTY OF SANTA BARBARA STANDARD DETAILS (SEPT. 2011)

2-010	GENERAL TRENCH NOTES
2-020	PIPE BEDDING DETAILS
2-030	TRENCHES FOR EXISTING PAVED ROADS
3-010	GENERAL DRAINAGE FACILITIES NOTES
3-020	OPEN CURB DROP INLET
3-115	CONCRETE COLLAR FOR STORM DRAINS
4-010	CURB AND DRIVEWAY GENERAL NOTES
4-030	CURBS AND GUTTERS
4-035	MEDIAN STRIPS
7-010	GENERAL SIGNAGE NOTES
7-050	ROADSIDE SIGN POSTS

CALTRANS STANDARD & REVISED STANDARD PLANS (2010 EDITION)

D71	DRAINAGE INLET MARKERS
RSP A77L1	MGS STANDARD RAILING SECTION
RSP A77M1	MGS STANDARD HARDWARE
RSP A77N1	MGS WOOD POST AND WOOD BLOCK DETAILS
RSP A77N3	MGS TYPICAL LINE POST & HINGE POINT OFFSET DETAILS
RSP A77N4	MGS TYPICAL RAILING DELINEATION & DIKE POSITIONING DETAILS
RSP A77P1	MGS TYPICAL LAYOUTS FOR EMBANKMENTS
RSP A77U5	MGS TRANSITION TO METAL BEAM GUARDRAIL
RSP A88A	CURB RAMP DETAILS
RSP A88B	CURB RAMP AND ISLAND PASSAGEWAY DETAILS

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (2012 EDITION)

300-3	CURB OPENING CATCH BASIN
309-2	CATCH BASIN REINFORCEMENT
310-3	CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR
312-4	CATCH BASIN MANHOLE FRAME AND COVER
313-3	LOCAL DEPRESSIONS AT CATCH BASINS-CASE E
430-1	CONCRETE LIGHTING STANDARD-TYPE C-1-B

CONSTRUCTION NOTES

(1) CONSTRUCT ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL "A", SHEET 4.

(2) CONSTRUCT MIN. 0.20' GRIND AND VARIABLE OVERLAY PER LIMITS SHOWN. ASPHALT CONCRETE MIX SHALL BE CALTRANS ½" HMA TYPE B.

(3) CONSTRUCT TYPE II SLURRY SEAL PER LIMITS SHOWN. SLURRY SEAL SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 37.

(4) CONSTRUCT 6" TYPE A CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-010 AND 4-030.

(5) CONSTRUCT MEDIAN STRIPS PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-010 AND 4-035. DETAIL 4-035 NOTE #7 SHALL BE MODIFIED TO BE WHERE THE MEDIAN WIDTH IS LESS THAN 3' INSTEAD OF 2'. 4-035 SECTION B SHALL BE USED WHERE MEDIAN IS GREATER THAN 3' WITH NEW TOPSOIL AND BARK MULCH REPLACEMENT AS NEEDED FOR CONSTRUCTION OF CURBS. 4-035 SECTION C SHALL BE USED WHERE THE MEDIAN IS LESS THAN 3' MODIFIED WITH RED STAMPED CONCRETE (COBBLESTONE) BETWEEN BOTH BACK OF CURBS.

(6) CONSTRUCT 6" TYPE A CURB AND 24" GUTTER PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-010 AND 4-030.

(7) CONSTRUCT TRAFFIC ISLAND PER CALTRANS REVISED STANDARD PLAN NO. RSP A88B, TYPE C PASSAGEWAY AND DETAIL "A", SHEET 5.

(8) CONSTRUCT 6" TYPE A CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-010 AND 4-030, MODIFIED TO TRANSITION TO EXISTING AC DIKE SECTION OVER 5' LENGTH.

(9) CONSTRUCT MIDWEST GUARDRAIL SYSTEM PER CALTRANS REVISED STANDARD PLAN NOs. RSP A77L1, A77M1, A77N1, A77N3 (DETAIL A), AND A77N4. A77N3 (DETAIL B) SHALL SUPERCEDE WHERE CALLED OUT ON PLAN. THE GUARDRAIL FACE SHALL BE ON A VERTICAL LINE WITH THE CURB FACE.

(10) CONSTRUCT MIDWEST GUARDRAIL SYSTEM IN-LINE TERMINAL SYSTEM END TREATMENT TYPE 11A LAYOUT PER CALTRANS REVISED STANDARD PLAN RSP A77P1.

(11) CONSTRUCT MIDWEST GUARDRAIL SYSTEM TRANSITION TO EXISTING METAL BEAM GUARDRAIL PER CALTRANS REVISED STANDARD PLAN RSP A77U5.

(12) CONSTRUCT CURB INLET PER COUNTY OF SANTA BARBARA STD. DETAILS 3-010 & 3-020 AND SPPWC STD. PLANS 300-3, 309-2, 310-3, & 312-4. B=2.5', H=3", V=7', & W=14'. CONSTRUCT LOCAL DEPRESSION PER SPPWC STD. PLAN 313-3, CASE A, WHERE N=0' AND M=2'. EXTEND EXISTING 18" RCP STORM DRAIN PIPE AS NECESSARY TO CONNECT TO NEW INLET.

(13) SCE TO RELOCATE EXISTING STREET LIGHT TO NEW LOCATION PER PLAN. CONSTRUCT CONCRETE FOUNDATION PER SPPWC STD. PLAN 430-1, TYPE C-1-B. COORDINATE WITH SCE TO HAVE STREET LIGHT CONDUIT & WIRES REDIRECTED TO NEW STREET LIGHT LOCATION AS NEEDED. THIS WORK TO BE FINALIZED AND APPROVED PER SCE PLANS.

(14) INSTALL TRAFFIC SIGNAL POLE PER TRAFFIC SIGNAL MODIFICATION PLAN SHEET 10.

(15) INSTALL TRAFFIC SIGNAL PULL BOX PER TRAFFIC SIGNAL MODIFICATION PLAN SHEET 10.

(16) EXISTING PALM TREE SHALL BE ASSESSED BY AN ARBORIST FOR DETERMINATION ON WHETHER OR NOT IT IS VIABLE FOR RELOCATION OR REMOVAL. CONTRACTOR SHALL COORDINATE WITH RINCON PALMS OWNERSHIP ON POTENTIAL RELOCATION AREAS.

(17) STORM DRAIN IMPROVEMENTS PER SHEET 9.

(18) CONSTRUCT CURB RAMP WITH RETAINING CURB PER CALTRANS REVISED STANDARD PLAN RSP A88A, CASE C AND DETAIL "A" ON SHEET 6. GRADES AND MODIFIED GEOMETRY PER PLAN.

REMOVAL/RELOCATION NOTES

[1] SAWCUT TO PROVIDE A CLEAN, SMOOTH JOIN LINE.

[2] REMOVE EXISTING ASPHALT CONCRETE PAVEMENT & BASE TO FULL DEPTH OF NEW STRUCTURAL SECTION, AND DISPOSE OF OFF-SITE. CLEAR AND GRUB EXISTING LANDSCAPING IN MEDIAN AND STREET WIDENING REMOVAL AREAS. MINIMUM DEPTH OF 28" FOR PLANTED MEDIAN AREAS WITH BOTTOM 4" TO BE SCARIFIED.

[3] REMOVE EXISTING CONCRETE CURB AND GUTTER AND DISPOSE OF OFF-SITE.

[4] PROTECT EXISTING CURB AND GUTTER TO REMAIN.

[5] REMOVE EXISTING CONCRETE CURB AND DISPOSE OF OFF-SITE.

[6] PROTECT EXISTING CURB TO REMAIN.

[7] REMOVE EXISTING AC DIKE AND DISPOSE OF OFF-SITE.

[8] PROTECT EXISTING AC DIKE TO REMAIN.

[9] PROTECT EXISTING METAL BEAM GUARD RAILING IN PLACE.

[10] REMOVE EXISTING METAL BEAM GUARD RAILING & WOOD POSTS AND DISPOSE OF OFF-SITE.

[11] REMOVE EXISTING CURB INLET.

[12] PROTECT EXISTING SCE MANHOLE IN PLACE. COORDINATE WITH SCE TO HAVE MANHOLE ADJUSTED TO GRADE AS NEEDED. THIS WORK TO BE FINALIZED AND APPROVED PER SCE PLANS.

[13] PROTECT EXISTING MONITORING WELL CASING AND LID IN PLACE. COORDINATE WITH THE MONITORING WELL OWNER (ARCADIS U.S., INC.; AMANDA BOWRING 714-508-3137) TO ADJUST TO GRADE.

[14] REMOVALS AND PROTECTION OF EXISTING TRAFFIC SIGNALS AND PULL BOXES PER TRAFFIC SIGNAL MODIFICATION PLAN, SHEET 8.

[15] REFERENCE SIGNING & STRIPING PLAN FOR ALL EXISTING SIGNAGE INSTRUCTIONS.

[16] RELOCATE EXISTING STREET LIGHT TO NEW LOCATION PER SCE PLANS.

[17] PROTECT EXISTING TRAFFIC SIGNAL IN PLACE.

[18] PROTECT EXISTING TREE IN PLACE.

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
Engineering · Surveying · Planning · Construction Management ·
111 East Victoria Street, Santa Barbara, CA 93101
Phone: (805) 963-9532 Fax: (805) 966-9801

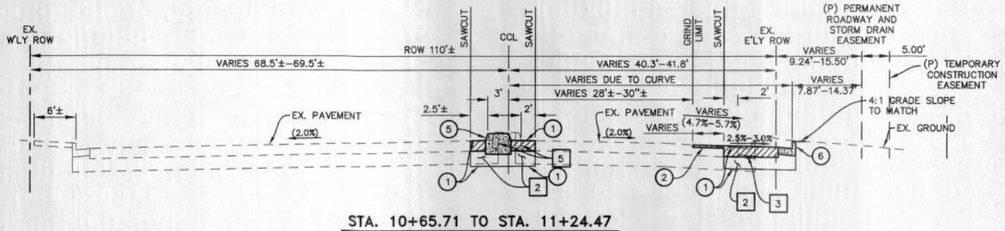
DESIGN PAS CHECKED
DON. E. DONALDSON DATE: 4-6-15
PROJECT ENGINEER
R.C.E. 36,364

REGISTERED PROFESSIONAL ENGINEER DON E. DONALDSON No 36364 CIVIL STATE OF CALIFORNIA

CITY OF GOLETA, CALIFORNIA
REVIEWED BY:
SIGNATURE DATE 4-6-15

STORKE RD. NB AT HOLLISTER AVE.
STREET WIDENING IMPROVEMENTS
CONSTRUCTION NOTES & LEGENDS
CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 3 OF 11
PLAN DATE 1/05/15



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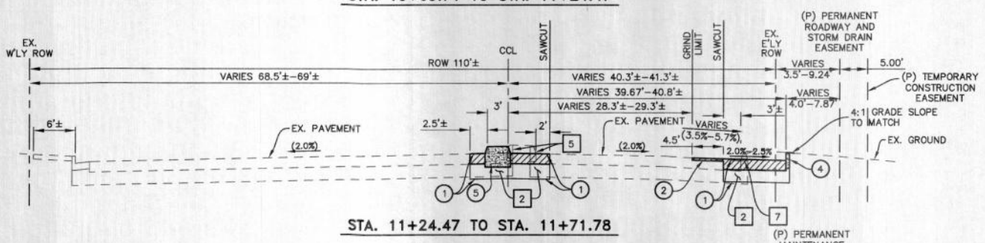

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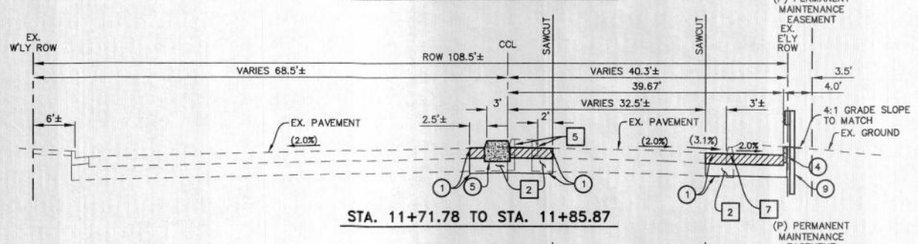

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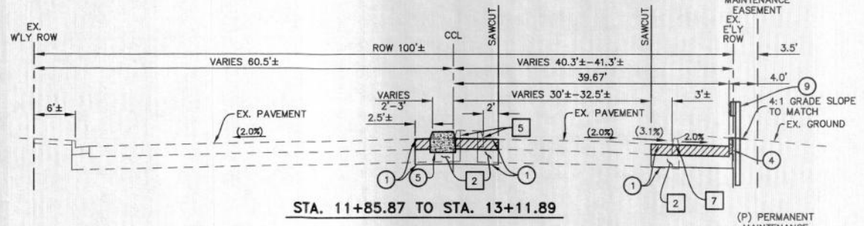
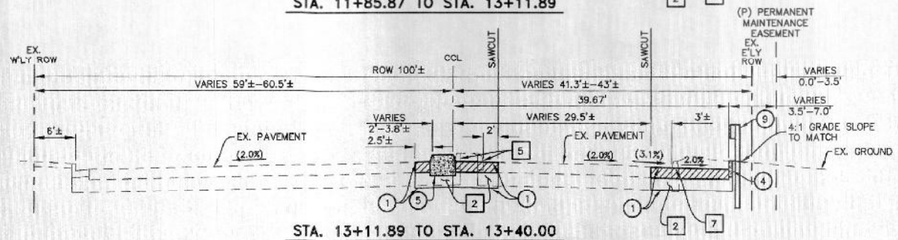
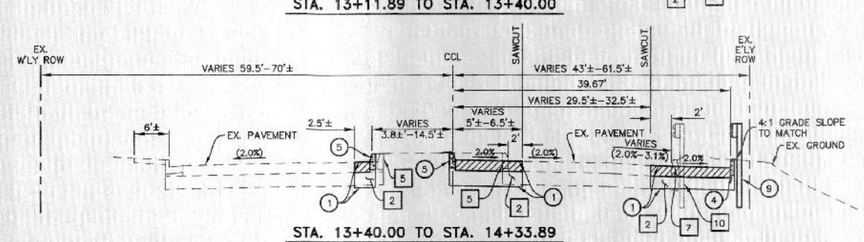


STA. 11+85.87 TO STA. 13+11.89



STA. 13+11.89 TO STA. 13+40.00

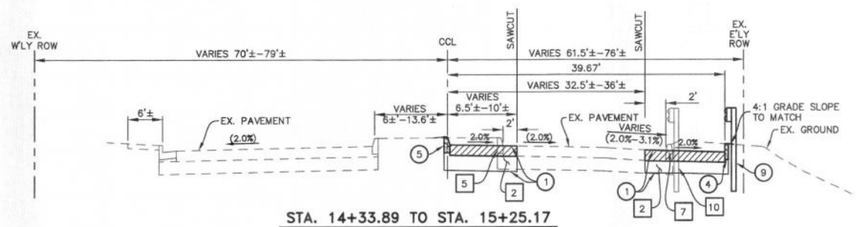


STA. 13+40.00 TO STA. 14+33.89

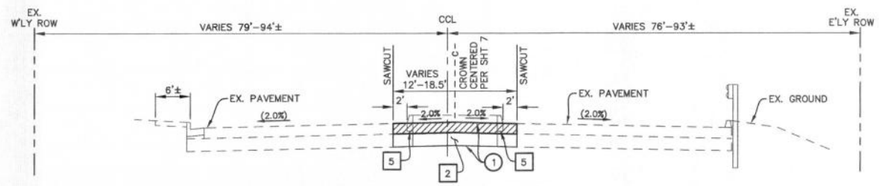
(SEE SHEET 3 FOR LIST OF CONSTRUCTION NOTES)

STORKE ROAD SECTION DETAILS

SCALE: HORZ. 1"=10'
VERT. 1"=5'



STA. 14+33.89 TO STA. 15+25.17

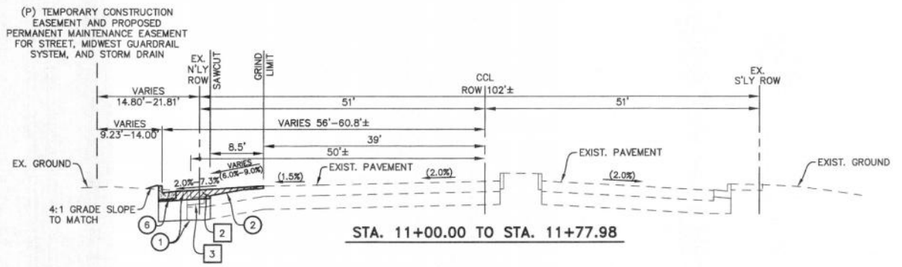


STA. 15+25.17 TO STA. 16+68.38

(SEE SHEET 3 FOR LIST OF CONSTRUCTION NOTES)

STORKE ROAD SECTION DETAILS

SCALE: HORZ. 1"=10'
VERT. 1"=5'

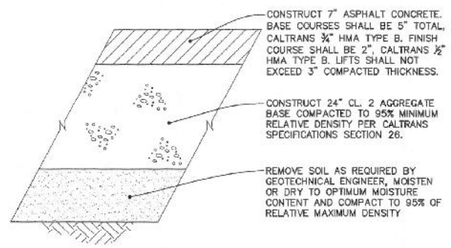


STA. 11+00.00 TO STA. 11+77.98

(SEE SHEET 3 FOR LIST OF CONSTRUCTION NOTES)

HOLLISTER AVENUE SECTION DETAIL

SCALE: HORZ. 1"=10'
VERT. 1"=5'



NOTE: FINAL STRUCTURAL SECTION SHALL BE BASED ON IN-PLACE R-VALUE TESTS AFTER COMPLETION OF ROUGH GRADING OPERATIONS. STRUCTURAL SECTION SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.

PAVEMENT STRUCTURAL SECTION HOLLISTER AVENUE & STORKE ROAD

N.T.S.

A 4

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

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DON. E. DONALDSON DATE 4-6-15
PROJECT ENGINEER
R.C.E. 36,364

REGISTERED PROFESSIONAL ENGINEER DON E. DONALDSON NO 36364 CIVIL STATE OF CALIFORNIA

CITY OF GOLETA, CALIFORNIA
REVIEWED BY:
SIGNATURE 4-6-15 DATE

STORKE RD. NB AT HOLLISTER AVE.
HOLLISTER AVE. & STORKE RD.
SECTIONS AND DETAILS
CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 4 OF 11
PLAN DATE 1/05/15

36-ENG SAVE DATE:1/5/2015 9:51:26 AM PLOT BY:Pete Silva PLOT DATE:1/5/2015 10:00:08 AM PLOT SCALE:1:1
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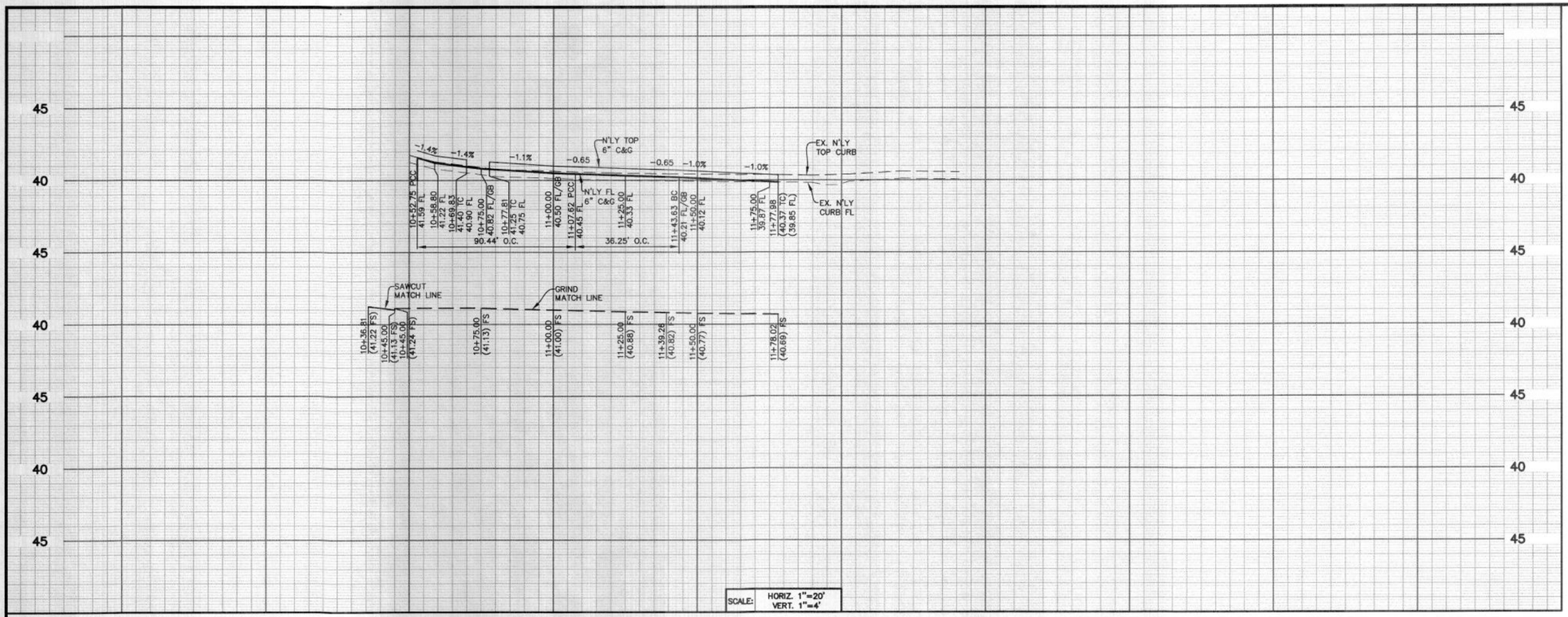
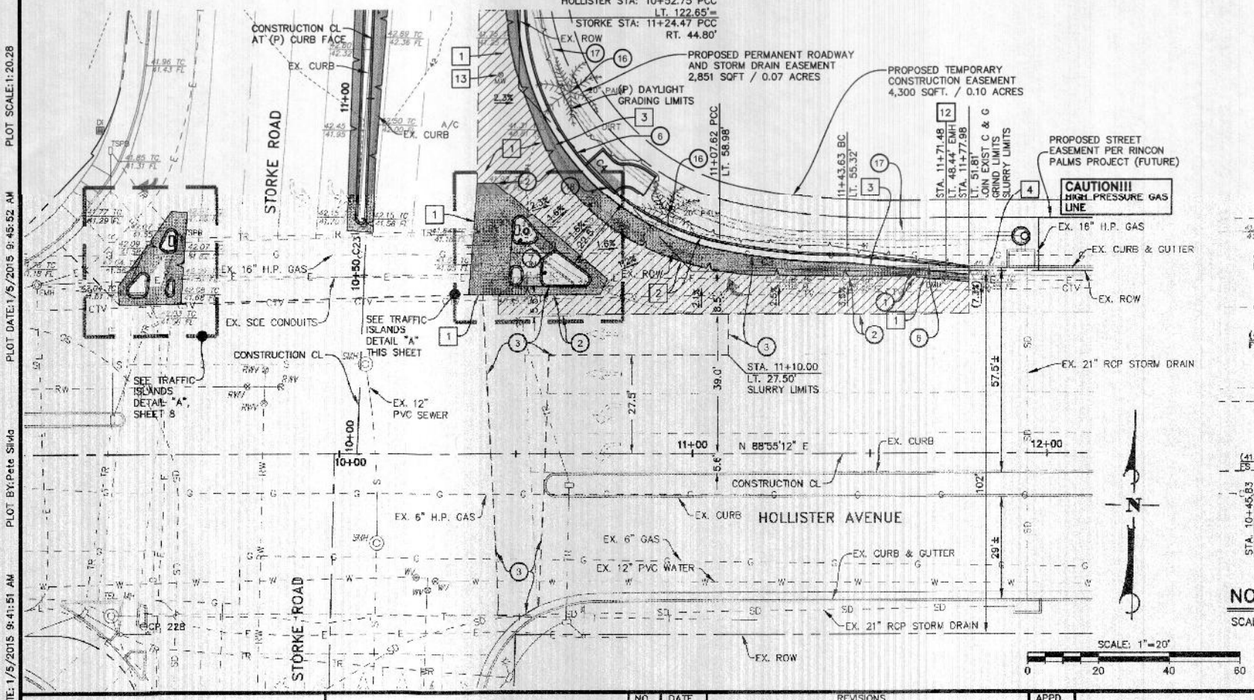


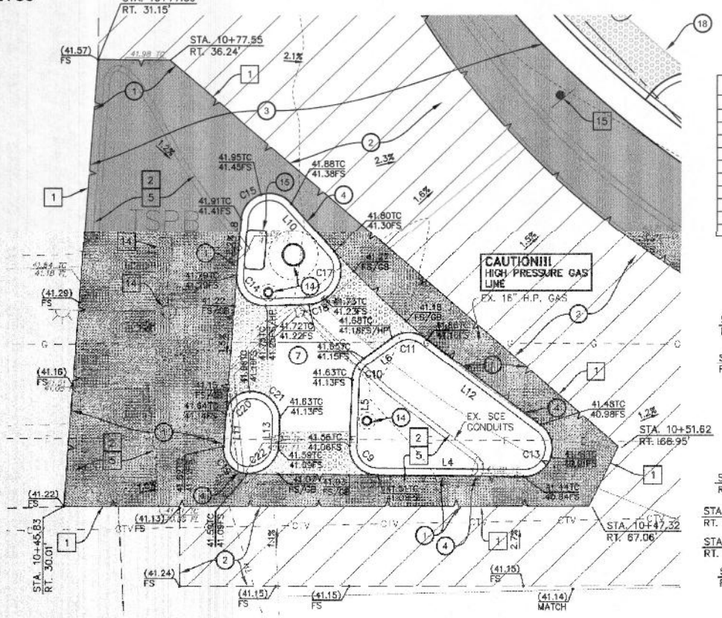
CONSTRUCTION NOTES

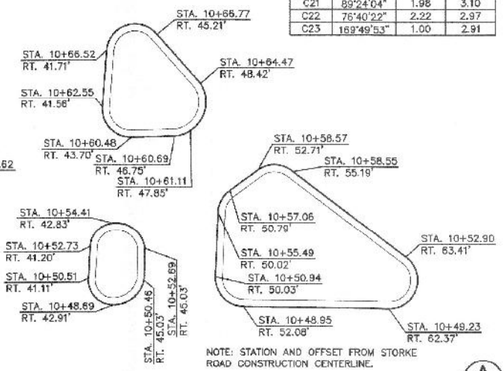
1. CONSTRUCT ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL "A", SHEET 4.
2. CONSTRUCT MIN. 0.20' GRIND AND VARIABLE OVERLAY PER LIMITS SHOWN. ASPHALT CONCRETE MIX SHALL BE CALTRANS ½" HMA TYPE B.
3. CONSTRUCT TYPE II SLURRY SEAL PER LIMITS SHOWN. SLURRY SEAL SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 37.
4. CONSTRUCT 6" TYPE A CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-010 AND 4-030.
6. CONSTRUCT 6" TYPE A CURB AND 24" GUTTER PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-010 AND 4-030.
7. CONSTRUCT TRAFFIC ISLAND PER CALTRANS REVISED STANDARD PLAN NO. RSP A88B, TYPE C PASSAGEWAY AND DETAIL "A", THIS SHEET.
14. INSTALL TRAFFIC SIGNAL POLE PER TRAFFIC SIGNAL MODIFICATION PLAN SHEET 10.
15. INSTALL TRAFFIC SIGNAL PULL BOX PER TRAFFIC SIGNAL MODIFICATION PLAN SHEET 10.
16. EXISTING PALM TREE SHALL BE ASSESSED BY AN ARBORIST FOR DETERMINATION ON WHETHER OR NOT IT IS VIABLE FOR RELOCATION OR REMOVAL. CONTRACTOR SHALL COORDINATE WITH RINCON PALMS OWNERSHIP ON POTENTIAL RELOCATION AREAS.
17. STORM DRAIN IMPROVEMENTS PER SHEET 9.
18. CONSTRUCT CURB RAMP WITH RETAINING CURB PER CALTRANS REVISED STANDARD PLAN RSP A88A, CASE C AND DETAIL "A" ON SHEET 6. GRADES AND MODIFIED GEOMETRY PER PLAN.

REMOVAL/RELOCATION NOTES

1. SAWCUT TO PROVIDE A CLEAN, SMOOTH JOIN LINE.
2. REMOVE EXISTING ASPHALT CONCRETE PAVEMENT & BASE TO FULL DEPTH OF NEW STRUCTURAL SECTION, AND DISPOSE OF OFF-SITE. CLEAR AND GRUB EXISTING LANDSCAPING IN MEDIAN AND STREET WIDENING REMOVAL AREAS. MINIMUM DEPTH OF 28" FOR PLANTED MEDIAN AREAS WITH BOTTOM 4" TO BE SCARIFIED.
3. REMOVE EXISTING CONCRETE CURB AND GUTTER AND DISPOSE OF OFF-SITE.
4. PROTECT EXISTING CURB AND GUTTER TO REMAIN.
5. REMOVE EXISTING CONCRETE CURB AND DISPOSE OF OFF-SITE.
12. PROTECT EXISTING SCE MANHOLE IN PLACE. COORDINATE WITH SCE TO HAVE MANHOLE ADJUSTED TO GRADE AS NEEDED. THIS WORK TO BE FINALIZED AND APPROVED PER SCE PLANS.
13. PROTECT EXISTING MONITORING WELL CASING AND LID IN PLACE. COORDINATE WITH THE MONITORING WELL OWNER (ARCADIS U.S., INC.; AMANDA BOWRING 714-508-3137) TO ADJUST TO GRADE.
14. REMOVALS AND RELOCATIONS OF EXISTING TRAFFIC SIGNALS AND PULL BOXES PER TRAFFIC SIGNAL MODIFICATION PLAN, SHEET 9.
15. REFERENCE SIGNING & STRIPING PLAN FOR ALL EXISTING SIGNAGE INSTRUCTIONS.







NOTE: STATION AND OFFSET FROM STORKE ROAD CONSTRUCTION CENTERLINE.

NORTHEAST INTERSECTION TRAFFIC ISLANDS DETAIL

SCALE: 1" = 5'

A/5

CURB TANGENT TABLE		
LINE	BEARING	DISTANCE
L2	N 85°14'20" W	34.53
L4	S 89°38'31" W	10.29
L5	N 01°10'12" E	4.54
L6	N 53°06'31" E	2.44
L7	S 87°24'05" W	3.06
L8	N 03°21'28" E	3.97
L10	S 42°57'27" E	4.68
L11	N 03°21'28" E	2.22
L12	S 54°14'54" E	10.03
L13	S 01°10'12" W	2.93

CURB CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C3	11°32'24"	180.00	36.25
C4	75°21'39"	68.76	90.44
C9	91°31'41"	2.00	3.19
C10	51°56'19"	2.00	1.81
C11	76°45'13"	2.00	2.68
C13	145°08'18"	2.00	5.07
C14	95°57'23"	2.00	3.35
C15	136°24'51"	2.00	4.76
C17	98°11'13"	2.25	3.86
C18	347°7'34"	2.00	1.20
C19	93°42'57"	1.75	2.86
C20	84°02'37"	1.75	2.57
C21	89°24'04"	1.98	3.10
C22	76°40'22"	2.22	2.97
C23	169°49'53"	1.00	2.91

FOR REDUCED PLANS ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

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111 East Victoria Street, Santa Barbara, CA 93101
Phone: (805) 963-9532 Fax: (805) 966-9801

DESIGN PAS CHECKED
DON E. DONALDSON DATE 4-6-15
PROJECT ENGINEER
R.C.E. 38,384

DON E. DONALDSON No. 38384 REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA

CITY OF GOLETA, CALIFORNIA
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HOLLISTER AVE. PLAN & PROFILE
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CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 5 OF 11
PLAN DATE 1/05/15

PLOT SCALE:1:20.28
PLOT DATE:1/5/2015 9:45:52 AM
PLOT BY:Pete Silva
36-PPI SAVE DATE: 1/5/2015 9:41:51 AM
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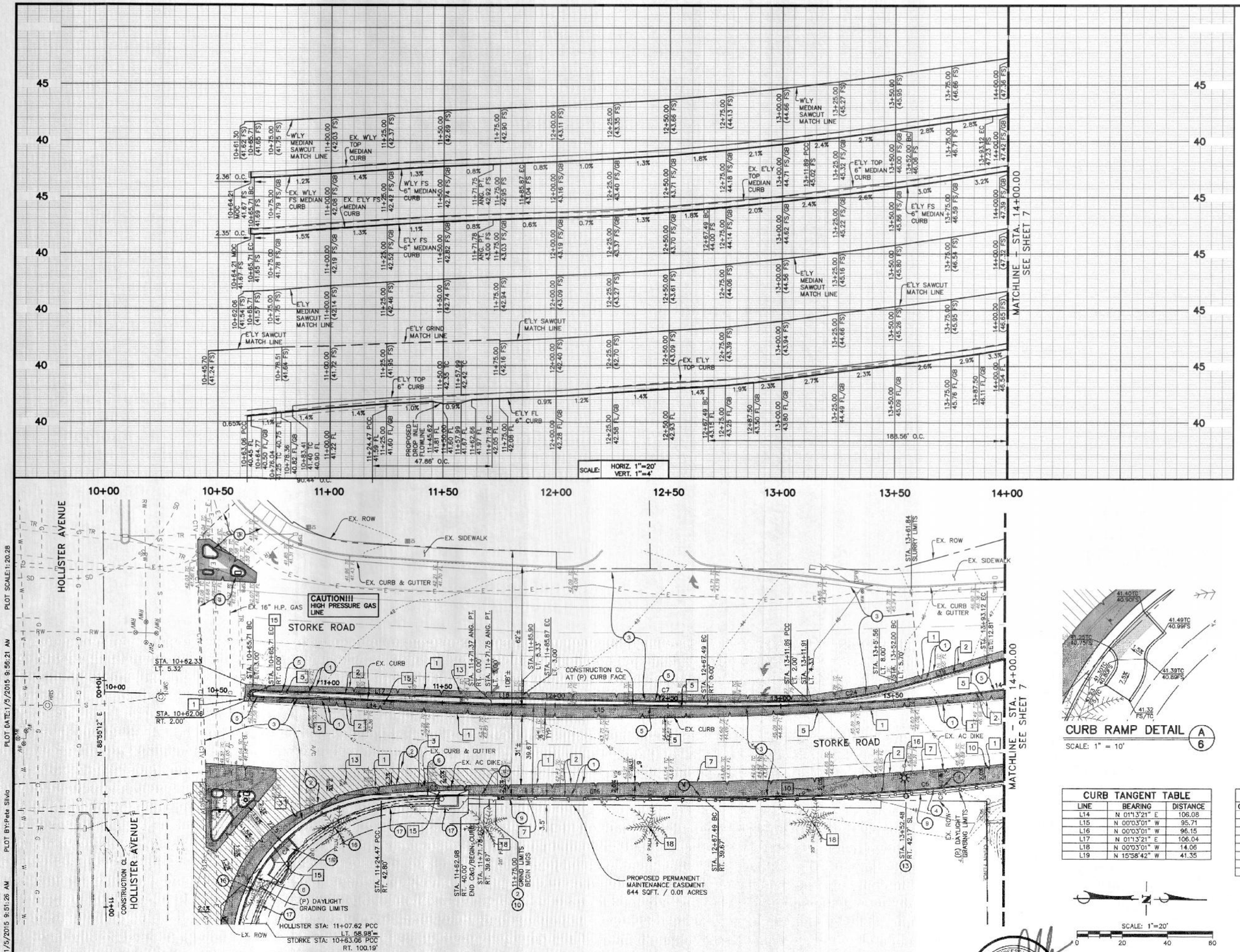

CONSTRUCTION NOTES

1. CONSTRUCT ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL "A", SHEET 4.
2. CONSTRUCT MIN. 0.20' GRIND AND VARIABLE OVERLAY PER LIMITS SHOWN. ASPHALT CONCRETE MIX SHALL BE CALTRANS ½" HMA TYPE B.
3. CONSTRUCT TYPE II SLURRY SEAL PER LIMITS SHOWN. SLURRY SEAL SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 37.
4. CONSTRUCT 6" TYPE A CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4–010 AND 4–030.
5. CONSTRUCT MEDIAN STRIPS PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4–010 AND 4–035. DETAIL 4–035 NOTE #7 SHALL BE MODIFIED TO BE WHERE THE MEDIAN WIDTH IS LESS THAN 3' INSTEAD OF 2'. 4–035 SECTION B SHALL BE USED WHERE MEDIAN IS GREATER THAN 3' WITH NEW TOPSOIL AND BARK MULCH REPLACEMENT AS NEEDED FOR CONSTRUCTION OF CURBS. 4–035 SECTION C SHALL BE USED WHERE THE MEDIAN IS LESS THAN 3' MODIFIED WITH RED STAMPED CONCRETE (COBBLESTONE) BETWEEN BOTH BACK OF CURBS.
6. CONSTRUCT 6" TYPE A CURB AND 24" GUTTER PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4–010 AND 4–030.
9. CONSTRUCT MIDWEST GUARDRAIL SYSTEM PER CALTRANS REVISED STANDARD PLAN NOs. RSP A77L1, A77M1, A77N1, A77N3 (DETAIL A), AND A77N4. A77N3 (DETAIL B) SHALL SUPERCEDE WHERE CALLED OUT ON PLAN. THE GUARDRAIL FACE SHALL BE ON A VERTICAL LINE WITH THE CURB FACE.
10. CONSTRUCT MIDWEST GUARDRAIL SYSTEM IN–LINE TERMINAL SYSTEM END TREATMENT TYPE 11A LAYOUT PER CALTRANS REVISED STANDARD PLAN RSP A77P1.
13. SCE TO RELOCATE EXISTING STREET LIGHT TO NEW LOCATION PER PLAN. CONSTRUCT CONCRETE FOUNDATION PER SPPWC STD. PLAN 430–1, TYPE C–1–B. COORDINATE WITH SCE TO HAVE STREET LIGHT CONDUIT & WIRES REDIRECTED TO NEW STREET LIGHT LOCATION AS NEEDED. THIS WORK TO BE FINALIZED AND APPROVED PER SCE PLANS.
16. EXISTING PALM TREE SHALL BE ASSESSED BY AN ARBORIST FOR DETERMINATION ON WHETHER OR NOT IT IS VIABLE FOR RELOCATION OR REMOVAL. CONTRACTOR SHALL COORDINATE WITH RINCON PALMS OWNERSHIP ON POTENTIAL RELOCATION AREAS.
17. STORM DRAIN IMPROVEMENTS PER SHEET 9.
18. CONSTRUCT CURB RAMP WITH RETAINING CURB PER CALTRANS REVISED STANDARD PLAN RSP A88A, CASE C AND DETAIL "A" ON SHEET 6. GRADES AND MODIFIED GEOMETRY PER PLAN.

REMOVAL/RELOCATION NOTES

1. SAWCUT TO PROVIDE A CLEAN, SMOOTH JOIN LINE.
2. REMOVE EXISTING ASPHALT CONCRETE PAVEMENT & BASE TO FULL DEPTH OF NEW STRUCTURAL SECTION, AND DISPOSE OF OFF–SITE. CLEAR AND GRUB EXISTING LANDSCAPING IN MEDIAN AND STREET WIDENING REMOVAL AREAS. MINIMUM DEPTH OF 28" FOR PLANTED MEDIAN AREAS WITH BOTTOM 4" TO BE SCARIFIED.
3. REMOVE EXISTING CONCRETE CURB AND GUTTER AND DISPOSE OF OFF–SITE.
5. REMOVE EXISTING CONCRETE CURB AND DISPOSE OF OFF–SITE.
6. PROTECT EXISTING CURB TO REMAIN.
7. REMOVE EXISTING AC DIKE AND DISPOSE OF OFF–SITE.
10. REMOVE EXISTING METAL BEAM GUARD RAILING & WOOD POSTS AND DISPOSE OF OFF–SITE.
13. PROTECT EXISTING MONITORING WELL CASING AND LID IN PLACE. COORDINATE WITH THE MONITORING WELL OWNER (ARCADIS U.S., INC.; AMANDA BOWRING 714–508–3137) TO ADJUST TO GRADE.
15. REFERENCE SIGNING & STRIPING PLAN FOR ALL EXISTING SIGNAGE INSTRUCTIONS.
16. RELOCATE EXISTING STREET LIGHT TO NEW LOCATION PER SCE PLANS.
18. PROTECT EXISTING TREE IN PLACE.

CURB RAMP DETAIL A/6

SCALE: 1" = 10'

CURB TANGENT TABLE		
LINE	BEARING	DISTANCE
L14	N 01°13'21" E	106.08
L15	N 00°03'01" W	95.71
L16	N 00°03'01" W	96.15
L17	N 01°13'21" E	106.04
L18	N 00°03'01" W	14.06
L19	N 15°58'42" W	41.35

CURB CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	10°23'54"	999.33	181.36
C4	75°21'39"	68.76	90.44
C5	04°17'46"	638.33	47.86
C6	10°26'55"	1039.00	188.56
C7	02°40'40"	1203.09	65.04
C23	180°00'00"	1.50	4.71
C24	12°12'35"	188.62	40.19
C25	13°26'17"	171.96	40.33

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
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DON E. DONALDSON DATE: 4-6-15
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R.C.E. 38,364

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CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 6 OF 11
PLAN DATE 1/05/15

PLOT SCALE:1:20.28
PLOT DATE:1/5/2015 9:56:21 AM
PLOT BY:Pete Silvia
SAVE DATE: 1/5/2015 9:51:26 AM
36–PP1
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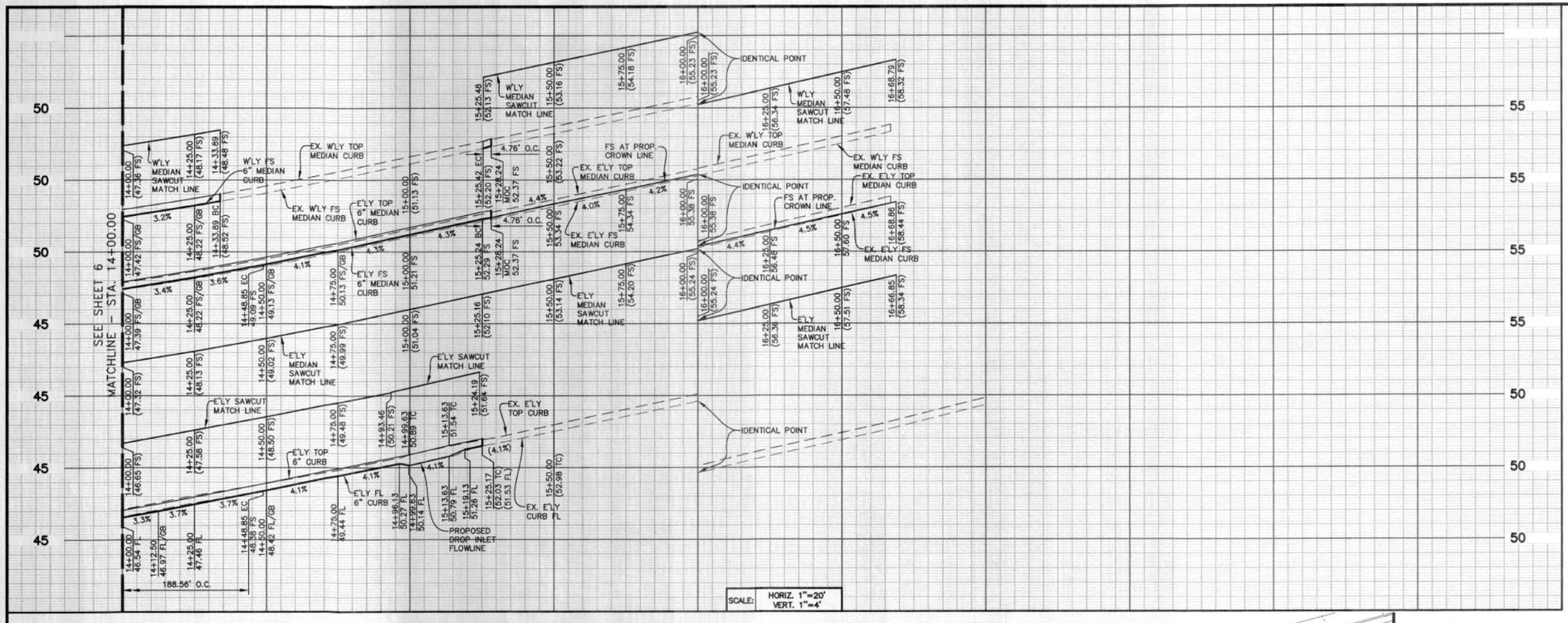

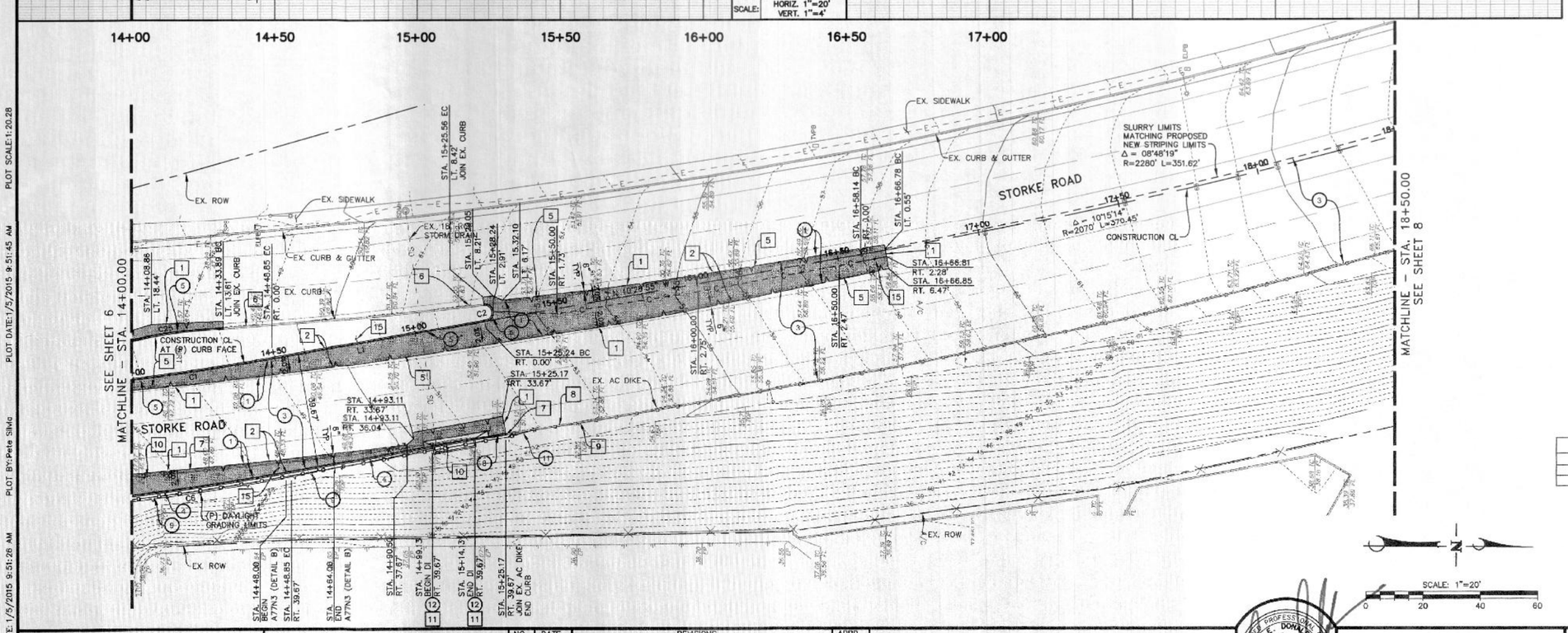

CONSTRUCTION NOTES

1. CONSTRUCT ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL "A", SHEET 4.
3. CONSTRUCT TYPE II SLURRY SEAL PER LIMITS SHOWN. SLURRY SEAL SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 37.
4. CONSTRUCT 6" TYPE A CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4–010 AND 4–030.
5. CONSTRUCT MEDIAN STRIPS PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4–010 AND 4–035. DETAIL 4–035 NOTE #7 SHALL BE MODIFIED TO BE WHERE THE MEDIAN WIDTH IS LESS THAN 3' INSTEAD OF 2'. 4–035 SECTION B SHALL BE USED WHERE MEDIAN IS GREATER THAN 3' WITH NEW TOPSOIL AND BARK MULCH REPLACEMENT AS NEEDED FOR CONSTRUCTION OF CURBS. 4–035 SECTION C SHALL BE USED WHERE THE MEDIAN IS LESS THAN 3' MODIFIED WITH RED STAMPED CONCRETE (COBBLESTONE) BETWEEN BOTH BACK OF CURBS.
8. CONSTRUCT 6" TYPE A CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4–010 AND 4–030, MODIFIED TO TRANSITION TO EXISTING AC DIKE SECTION OVER 5' LENGTH.
9. CONSTRUCT MIDWEST GUARDRAIL SYSTEM PER CALTRANS REVISED STANDARD PLAN NOs. RSP A77L1, A77M1, A77N1, A77N3 (DETAIL A), AND A77N4. A77N3 (DETAIL B) SHALL SUPERCEDE WHERE CALLED OUT ON PLAN. THE GUARDRAIL FACE SHALL BE ON A VERTICAL LINE WITH THE CURB FACE.
11. CONSTRUCT MIDWEST GUARDRAIL SYSTEM TRANSITION TO EXISTING METAL BEAM GUARDRAIL PER CALTRANS REVISED STANDARD PLAN RSP A77U5.
12. CONSTRUCT CURB INLET PER COUNTY OF SANTA BARBARA STD. DETAILS 3–010 & 3–020 AND SPPWC STD. PLANS 300–3, 309–2, 310–3, & 312–4. B=2.5', H=3", V=7', & W=14'. CONSTRUCT LOCAL DEPRESSION PER SPPWC STD. PLAN 313–3, CASE A, WHERE N=0' AND M=2'. EXTEND EXISTING 18" RCP STORM DRAIN PIPE AS NECESSARY TO CONNECT TO NEW INLET.

REMOVAL/RELOCATION NOTES

1. SAWCUT TO PROVIDE A CLEAN, SMOOTH JOIN LINE.
2. REMOVE EXISTING ASPHALT CONCRETE PAVEMENT & BASE TO FULL DEPTH OF NEW STRUCTURAL SECTION, AND DISPOSE OF OFF–SITE. CLEAR AND GRUB EXISTING LANDSCAPING IN MEDIAN AND STREET WIDENING REMOVAL AREAS. MINIMUM DEPTH OF 28" FOR PLANTED MEDIAN AREAS WITH BOTTOM 4" TO BE SCARIFIED.
5. REMOVE EXISTING CONCRETE CURB AND DISPOSE OF OFF–SITE.
6. PROTECT EXISTING CURB TO REMAIN.
7. REMOVE EXISTING AC DIKE AND DISPOSE OF OFF–SITE.
8. PROTECT EXISTING AC DIKE TO REMAIN.
9. PROTECT EXISTING METAL BEAM GUARD RAILING IN PLACE.
10. REMOVE EXISTING METAL BEAM GUARD RAILING & WOOD POSTS AND DISPOSE OF OFF–SITE.
11. REMOVE EXISTING CURB INLET.
15. REFERENCE SIGNING & STRIPING PLAN FOR ALL EXISTING SIGNAGE INSTRUCTIONS.

CURB TANGENT TABLE		
LINE	BEARING	DISTANCE
L1	N 10°26'55" W	76.39
L3	N 10°26'55" W	76.32

CURB CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	10°23'54"	999.33	181.36
C2	176°36'37"	3.00	9.52
C6	10°26'55"	1039.00	188.56
C25	13°26'17"	171.96	40.33

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

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PROJECT ENGINEER
R.C.E. 36,364

REGISTERED PROFESSIONAL ENGINEER DON E. DONALDSON NO 36364 CIVIL STATE OF CALIFORNIA

CITY OF GOLETA, CALIFORNIA
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CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 7 OF 11
PLAN DATE 1/05/15

36–PP1 SAVE DATE: 1/5/2015 9:51:26 AM PLOT BY: Pete Silvia PLOT DATE: 1/5/2015 9:51:45 AM PLOT SCALE: 1:20.28

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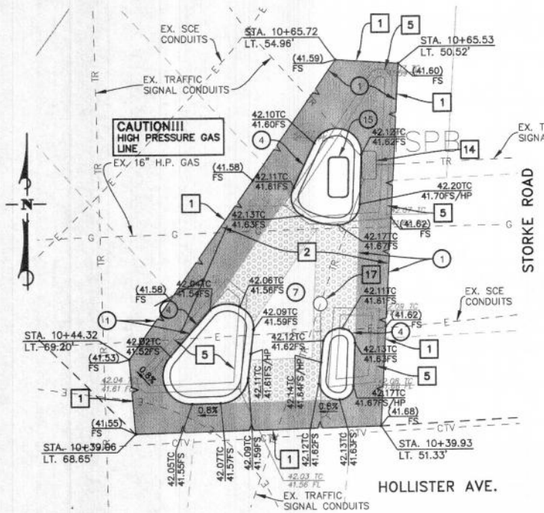
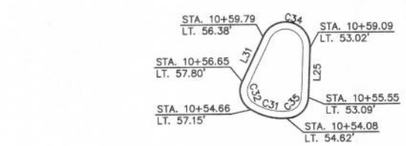
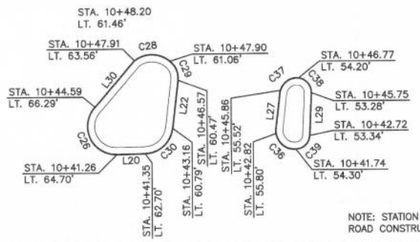
CURB TANGENT TABLE		
LINE	BEARING	DISTANCE
L20	S 88°41'48" W	2.00
L22	S 06°36'54" W	3.42
L25	S 02°20'58" W	3.54
L27	N 06°36'54" E	2.46
L29	S 02°20'58" W	3.03
L30	N 64°32'40" E	4.30
L31	N 49°22'17" E	3.44

CURB CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C26	134°25'48"	2.00	4.69
C28	81°05'47"	1.92	2.72
C29	58°21'59"	1.50	1.53
C30	82°04'54"	2.00	2.87
C31	31°23'03"	4.80	2.63
C32	88°19'59"	1.50	2.31
C34	158°42'31"	1.75	4.85
C35	90°00'00"	1.50	2.36
C36	97°44'05"	1.00	1.71
C37	90°00'15"	1.23	1.93
C38	86°22'55"	1.00	1.51
C39	100°34'01"	1.35	2.37





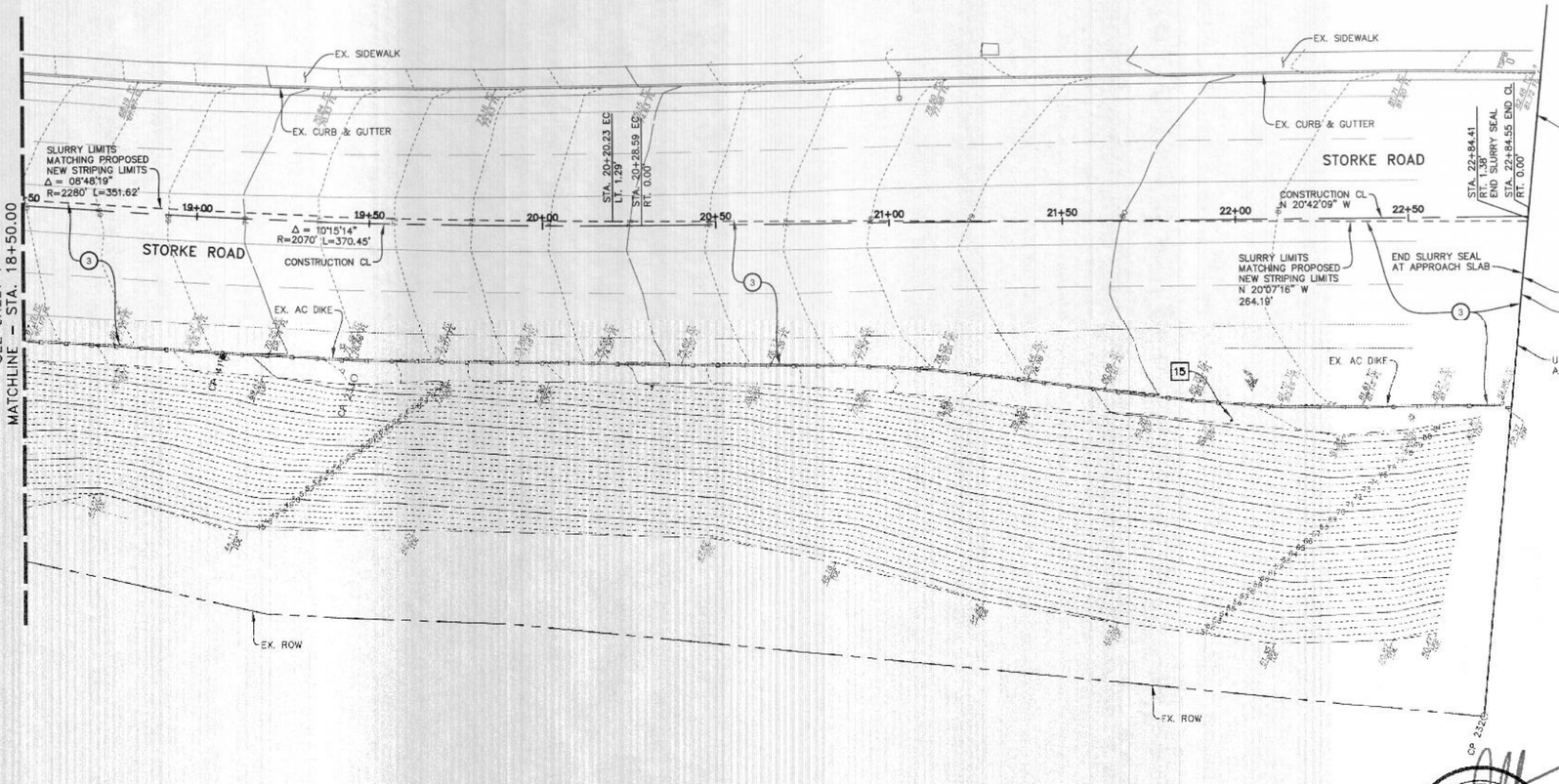


NOTE: STATION AND OFFSET FROM STORKE ROAD CONSTRUCTION CENTERLINE.

NORTHWEST INTERSECTION TRAFFIC ISLANDS DETAIL

SCALE: 1" = 5'

A/8



SCALE: 1"=20'

0 20 40 60

CONSTRUCTION NOTES

(1) CONSTRUCT ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL "A", SHEET 4.

(3) CONSTRUCT TYPE II SLURRY SEAL PER LIMITS SHOWN. SLURRY SEAL SHALL COMPLY WITH CALTRANS SPECIFICATIONS SECTION 37.

(4) CONSTRUCT 6" TYPE A CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-010 AND 4-030.

(7) CONSTRUCT TRAFFIC ISLAND PER CALTRANS REVISED STANDARD PLAN NO. RSP A88B, TYPE C PASSAGEWAY AND DETAIL "A", THIS SHEET.

(15) INSTALL TRAFFIC SIGNAL PULL BOX PER TRAFFIC SIGNAL MODIFICATION PLAN SHEET 9.

REMOVAL/RELOCATION NOTES

[1] SAWCUT TO PROVIDE A CLEAN, SMOOTH JOIN LINE.

[2] REMOVE EXISTING ASPHALT CONCRETE PAVEMENT & BASE TO FULL DEPTH OF NEW STRUCTURAL SECTION, AND DISPOSE OF OFF-SITE. CLEAR AND GRUB EXISTING LANDSCAPING IN MEDIAN AND STREET WIDENING REMOVAL AREAS. MINIMUM DEPTH OF 28" FOR PLANTED MEDIAN AREAS WITH BOTTOM 4" TO BE SCARIFIED.

[5] REMOVE EXISTING CONCRETE CURB AND DISPOSE OF OFF-SITE.

[14] REMOVALS AND RELOCATIONS OF EXISTING TRAFFIC SIGNALS AND PULL BOXES PER TRAFFIC SIGNAL MODIFICATION PLAN, SHEET 9.

[15] REFERENCE SIGNING & STRIPING PLAN FOR ALL EXISTING SIGNAGE INSTRUCTIONS.

[17] PROTECT EXISTING TRAFFIC SIGNAL IN PLACE.

FOR REDUCED PLANS ORIGINAL SCALE IN INCHES
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36-ENG SAVE DATE:1/5/2015 9:51:26 AM PLOT BY:Pete Silva PLOT DATE:1/5/2015 10:01:01 AM PLOT SCALE:1:1

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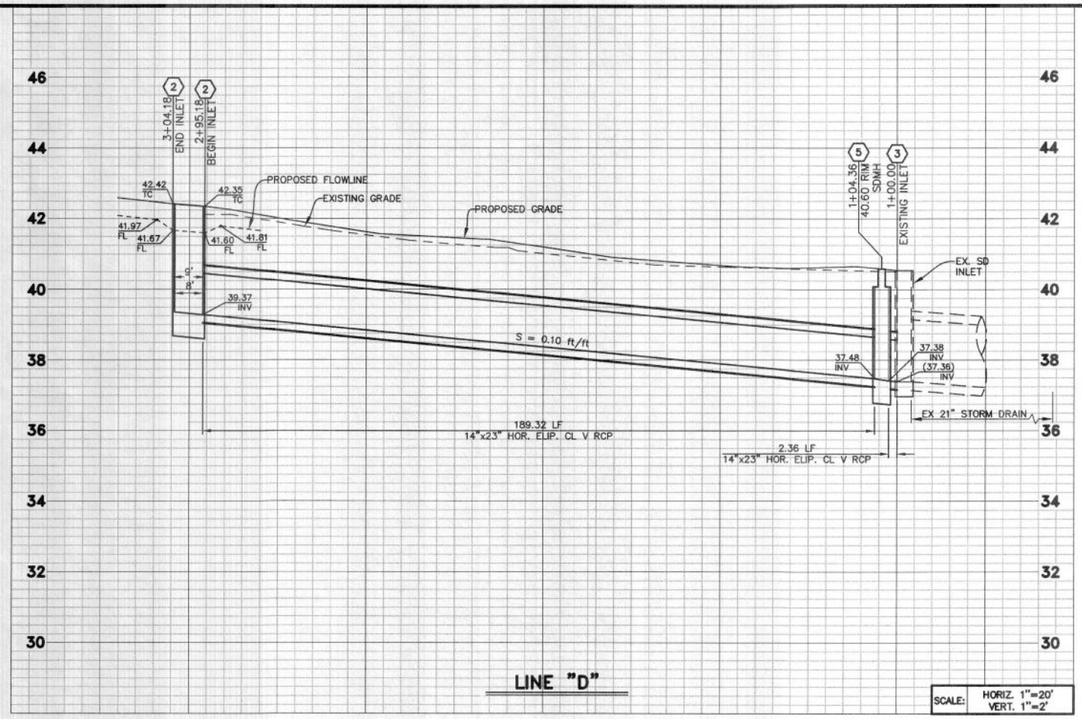

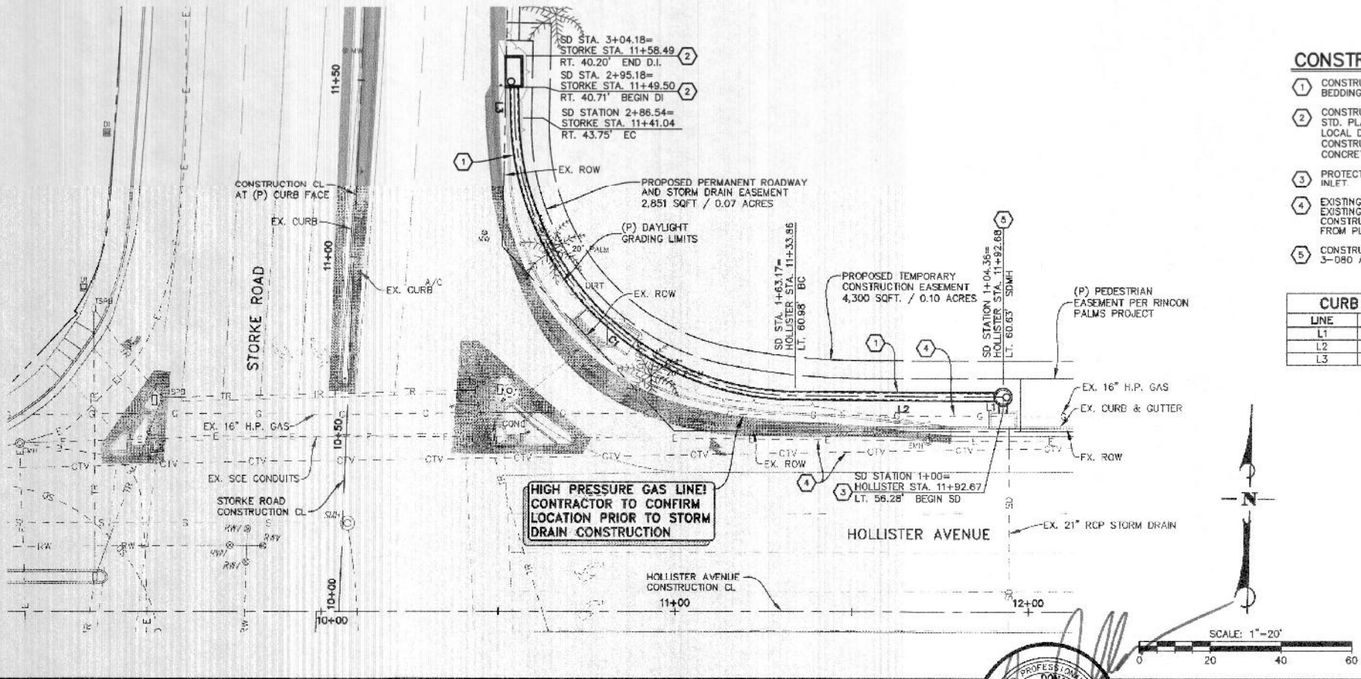

CONSTRUCTION NOTES

1. CONSTRUCT 14"X23" HORIZONTAL ELLIPTICAL CLASS V RCP STORM DRAIN. TRENCH AND BEDDING PER COUNTY OF SANTA BARBARA STD. DETAILS 2-010 & 2-040.
2. CONSTRUCT CURB INLET PER COUNTY OF SANTA BARBARA STD. DETAILS 3-010 AND SPPWC STD. PLANS 300-3, 309-2, 310-3 & 312-4. B=4', H=3", V=3", & W=8'. CONSTRUCT LOCAL DEPRESSION AND APRON LIP PER SPPWC STD. PLAN 313-3, CASE E, WHERE K=5'. CONSTRUCT DRAINAGE INLET MARKERS (PREFABRICATED THERMOPLASTIC & STAMPED CONCRETE IMPRINT) PER CALTRANS STANDARD PLAN D71.
3. PROTECT EXISTING CURB INLET. CONNECT PROPOSED STORM DRAIN PIPE TO EXISTING CURB INLET.
4. EXISTING UTILITY TO BE PROTECTED IN PLACE. CONTRACTOR SHALL POTHOLE DEPTH OF EXISTING GAS MAIN AT PROPOSED STORM DRAIN CROSSING PRIOR TO STARTING CONSTRUCTION AND SHALL COORDINATE WITH THE ENGINEER IF DEPTH OF COVER DIFFERS FROM PLANS.
5. CONSTRUCT PRECAST STORM DRAIN MANHOLE PER COUNTY OF SANTA BARBARA STD. DETAIL 3-080 AND SPPWC STD. PLAN 321-2.

CURB TANGENT TABLE

LINE	BEARING	DISTANCE
L1	N 00°56'54" W	2.36
L2	S 89°15'43" W	56.81
L3	N 02°22'33" W	9.14

CURB CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	88°21'23"	80.00	123.37

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
Engineering · Surveying · Planning · Construction Management
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DESIGN PAS CHECKED
DON. E. DONALDSON DATE: 4-6-15
PROJECT ENGINEER
R.C.E. 36,384

REGISTERED PROFESSIONAL ENGINEER DON E. DONALDSON NO. 36384 CIVIL STATE OF CALIFORNIA

CITY OF GOLETA, CALIFORNIA
REVIEWED BY:
SIGNATURE DATE 4-6-15

STORKE RD. NB AT HOLLISTER AVE. HOLLISTER AVE. & STORKE ROAD STORM DRAIN IMPROVEMENTS

CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 9 OF 11
PLAN DATE 1/05/15

36-ENG SAVE DATE:1/5/2015 10:08:51 AM PLOT BY:Pete Stvdc PLOT DATE:1/5/2015 10:09:01 AM PLOT SCALE:1:1
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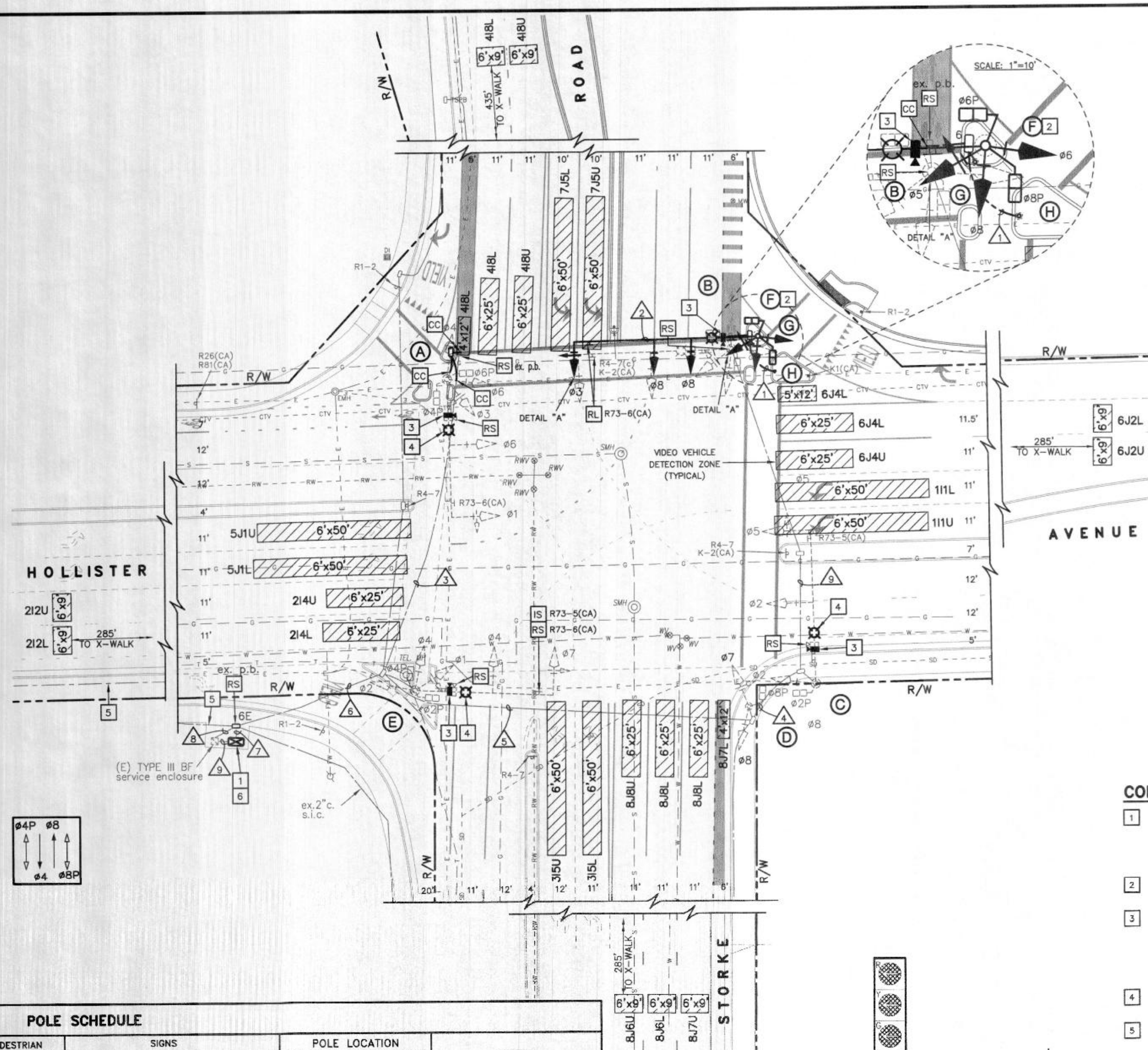
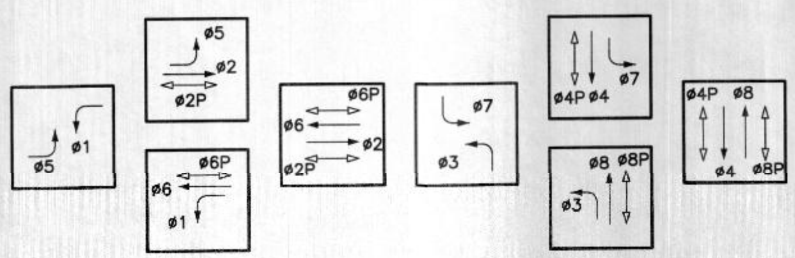
GENERAL NOTES

1. ALL ITEMS TO BE FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO SECTION 86 "ELECTRICAL SYSTEMS" OF THE STATE OF CALIFORNIA, STANDARD SPECIFICATIONS AND STANDARD PLANS AS MOST RECENTLY REVISED.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES 48 HOURS IN ADVANCE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL PHASES OF CONSTRUCTION.
3. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE MADE BY A SEARCH OF THE RECORDS; HOWEVER, NO GUARANTEE IS MADE THAT ALL SUBSTRUCTURES OR THAT THE LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITY LINES INCLUDING THOSE NOT SHOWN OR THOSE NOT OF RECORD. CALL "UNDERGROUND SERVICE ALERT" 811. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REALIGNMENT OF ANY UNDERGROUND UTILITIES DAMAGED BY HIS OPERATIONS.
4. All TRAFFIC SIGNAL EQUIPMENT SHALL BE PEEK TRAFFIC. ALL SIGNAL HEADS SHALL BE 12" AND HAVE BLACK LOUVERED BACKPLATES, VISORS SHALL BE TUNNEL TYPE, AND FRAMEWORK SHALL BE ALUMINUM.
5. NO PULL BOXES SHALL BE LOCATED IN OR WITHIN 1' OF ANY WHEELCHAIR RAMP. ALL NEW PULL BOXES SHALL BE NO. 6.
6. ALL NEW VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE LED PER STATE STANDARDS. VEHICLE AND PEDESTRIAN INDICATIONS ON EXISTING POLES SHALL BE REPLACED WITH LED MODULE (DIALIGHT OR EQUAL) IN EXISTING SIGNAL HEAD HOUSING PER STATE STANDARDS.
7. NEW PEDESTRIAN SIGNALS SHALL BE COUNTDOWN TYPE. EXISTING SYMBOL TYPE PEDESTRIAN SIGNALS SHALL BE REPLACED WITH COUNTDOWN TYPE IN EXISTING PEDESTRIAN SIGNAL HOUSING.
8. THE LOCATION OF ALL TRAFFIC SIGNAL EQUIPMENT (INCL. PULL BOXES) SHALL BE APPROVED BY CITY INSPECTOR PRIOR TO CONSTRUCTION.
9. CONSTRUCTION INVOLVING LANE CLOSURES SHALL BE RESTRICTED TO 9 AM TO 3 PM. CITY INSPECTOR MAY APPROVE EXPANDED WORK HOURS SUBJECT TO TRAFFIC CONDITIONS.
10. MANUFACTURE'S REPRESENTATIVE FOR FLIR THERMAL SENSOR SYSTEM SHALL BE PRESENT TO POSITION AND CONFIGURE SENSORS AT SIGNAL TURN-ON.
11. ALL THERMAL SENSORS TO BE MOUNTED ON LUMINAIRE ARM. INSTALL CAMERA AND BRACKET PER CALTRANS STANDARD PLAN RSP ES-7R.
12. ALL SIGN NUMBERS REFER TO 2012 CALIFORNIA MUTCD.
13. ALL LEGENDS, NOTES AND ABBREVIATIONS REFER TO CALTRANS STANDARD PLANS ES-1A, ES-1B AND ES-1C.
14. ALL NEW POLES, CONDUIT AND CONDUCTORS SHALL BE IN PLACE AND OPERATIONAL PRIOR TO DEACTIVATION AND REMOVAL OF EXISTING SIGNAL POLES AND EQUIPMENT.





SIGNAL PHASE DIAGRAM

DETAIL "A"

12" 3-SECTION VEHICLE HEAD

POLE SCHEDULE

POLE NO.	SIGNAL STANDARD TYPE	MAST ARM SIG.	MAST ARM LUM.	LUMINAIRE SIZE/TYPE	SIGNAL MOUNTING VEHICLE POLE MT'G*	VEHICLE MAST ARM*	PEDESTRIAN* **	PEDESTRIAN PUSH BUTTON PHASE	ARROW	QUAD	SIGNS POLE MT'D	MAST ARM	S.N.S.**	POLE LOCATION (SEE POLE LOCATION DETAIL) A	B	NOTES
A	26-4-70	45'	15'	264W LED	SV-3-T	2-MAS	SP-2-T	6 4	← →	N W	–	R73-6	Storke Rd	EXISTING	EXISTING	
B	29-5-70(R)	50'(R)	15'(R)	250W HPS(R)	SV-3-T (R)	2-MAS(R)	SP-2-T(R)	6(R) 8(R)	← ←	S E	–	R73-6(RL)	Hollister Ave (RL)	EXISTING	EXISTING	
C	29-5-70	50'	15'	250W HPS(R) 264W LED	SV-1-T	2-MAS	SP-1-T	8	←	W	–	R73-5	Storke Rd	EXISTING	EXISTING	
D	1-A-10'	–	–	–	TV-2-T	2-MAS	SP-1-T	2	→	N	–	–	–	EXISTING	EXISTING	
E	26-4-70	45'	15'	250W HPS(R) 264W LED	SV-3-T	2-MAS	SP-2-T	2 4	← →	N E	–	R73-6(R) R73-5	Hollister Ave	EXISTING	EXISTING	
F	61-5-100	60'	15'	264W LED	SV-3-T	3-MAS	SP-2-T	–	–	–	–	R73-6(RL)	Hollister Ave (RL)	N 10047.94 E 11540.47		F = 28'
G	PPBP	–	–	–	–	–	–	6	←	S	–	–	–	N 10045.28 E 11538.76		
H	PPBP	–	–	–	–	–	–	8	→	–	–	–	–	N 10038.41 E 11545.87		

* NEW VEH. AND PED. INDICATIONS SHALL BE LED. REPLACE EXISTING INDICATIONS WITH LED MODULE IN EXISTING HOUSING.
** ALL PEDESTRIAN INDICATIONS SHALL BE COUNTDOWN TYPE.
*** 8" UPPER CASE & 6" LOWER CASE LETTERS.

(R) = REMOVE AND SALVAGE EXISTING EQUIPMENT.
(RL) = INSTALL RELOCATED EQUIPMENT ON NEW POLE.

CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	POLE	CONDUIT RUN & SIZE (N) 3" ⚠1	(E) 3" ⚠2	(E) 4" ⚠3	(E) 3" ⚠4	(E) 4" ⚠5	(E) 4" ⚠6	(E) 2-4" ⚠7	(E) 2" ⚠8	(E) ⚠9
NO. 14 WIRES: 12 CONDUCTORS (a) / 3 CONDUCTORS (b)	POLE A	-/-	-/-	2/2	-/-	-/-	2/2	2/2	-/-	-/-
	POLE B	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
	POLE C	-/-	-/-	-/-	1/1	1/1	1/1	1/1	-/-	-/-
	POLE D	-/-	-/-	-/-	-/-	1/1	1/1	1/1	-/-	-/-
	POLE E	-/-	-/-	-/-	-/-	-/-	2/2	2/2	-/-	-/-
	POLE F	-/-	2/-	2/-	-/-	-/-	2/-	2/-	-/-	-/-
	POLE G	-/1	-/1	-/1	-/-	-/-	-/1	-/1	-/-	-/-
	POLE H	-/1	-/1	-/1	-/-	-/-	-/1	-/1	-/-	-/-
TOTAL CABLES-3 CONDUCT/12 CONDUCT		-/1	2/2	4/4	1/1	2/2	8/8	8/8	-/-	-/-
NO. 10	LUMINAIRES	-	2	2	2	2	4	-	4	-
6 PR. #20	S.I.C.	-	-	-	-	-	-	1 1(E)	-	-
NO. 6	SIGNAL POWER	-	-	-	-	-	-	-	-	3
VIDEO/POWER CABLE PN-KG-9915	POLE A	-	-	1	-	-	1	1	-	-
	POLE C	-	-	-	1	1	1	1	-	-
	POLE E	-	-	-	-	-	1	1	-	-
	POLE F	-	1	1	-	-	1	1	-	-
	TOTAL	-	1	2	1	1	4	4	-	-

NOTES

ALL CONDUCTORS ARE NEW EXCEPT WHERE NOTED (E). REMOVE ALL EXISTING CONDUCTORS AND INDUCTIVE LOOP LEAD-IN CABLES FROM EXISTING CONDUITS. EXISTING CONDUITS SHALL BE CLEANED WITH A MANDREL OR CYLINDRICAL WIRE BRUSH AND BLOWN OUT WITH COMPRESSED AIR.

(N) = NEW CONDUIT.
(E) = EXISTING CONDUIT TO REMAIN IN PLACE.

(a) 12-CONDUCTOR CABLES SHALL BE RUN WITHOUT SPLICES FROM CONTROLLER TO TERMINAL BOX ON POLE.

(b) 3-CONDUCTOR CABLES SHALL BE RUN FROM CONTROLLER TO PEDESTRIAN PUSHBUTTON TERMINALS ON POLES.

ALL CONDUCTORS SHALL BE LABELED POLE & PHASE IN CONTROLLER CABINET
AND EACH PULL BOX.

CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE THE CORRECT NUMBER OF CONDUCTORS FOR THE INTENDED OPERATION.

CONSTRUCTION NOTES

1. REMOVE AND SALVAGE EXISTING CONTROLLER CABINET. FURNISH AND INSTALL TYPE 170E HC11 CONTROLLER UNIT IN A NEW 332 EXTENDED CABINET PER CALTRANS STANDARD PLAN ES-3C AND PER SPECIAL PROVISIONS. CONTRACTOR SHALL INSTALL ALL APPURTENANCES TO PROVIDE THE INTENDED OPERATION.
2. POT HOLE PROPOSED POLE LOCATION PRIOR TO ORDERING EQUIPMENT TO CONFIRM NO UTILITY CONFLICTS.
3. INSTALL FLIR THERMAL SENSOR ON LUMINAIRE MAST-ARM AS SHOWN. THERMAL SENSORS SHALL BE FLIR CTW-FC-334-T. INSTALL COMMUNICATIONS MODULE IN CONTROLLER CABINET. SEE SPECIAL PROVISIONS FOR EQUIPMENT LIST AND INSTALLATION REQUIREMENTS. RUN 5 IN 1 SIAMESE CABLE FROM SENSOR HOUSING DIRECTLY TO VIP-3D.1 PROCESSING CARD IN CONTROLLER CABINET.
4. REMOVE EXISTING HPS STREET LIGHT AND REPLACE WITH LED STREET LIGHT.
5. REMOVE EXISTING 6 PAIR SIC FROM EXISTING CONDUIT. INSTALL 6 PAIR SIC FROM NEW CONTROLLER CABINET AT GLENN ANNIE RD TO EXISTING CONTROLLER AT STORKE RD. AND TERMINATE AT EACH END.
6. INSTALL MYERS BATTERY BACK UP SYSTEMS MODEL BC100HZG IN EXTERNAL CABINET WITH GENERATOR PLUG.

CC CONNECT EXISTING AND NEW CONDUIT.
RL RELOCATE EQUIPMENT.
RS REMOVE AND SALVAGE EXISTING EQUIPMENT. SEE GENERAL NOTE 14.
IS INSTALL SIGN AS NOTED.

SCALE: 1"=20'

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS ORIGINAL SCALE IN INCHES 0 1 2 3

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
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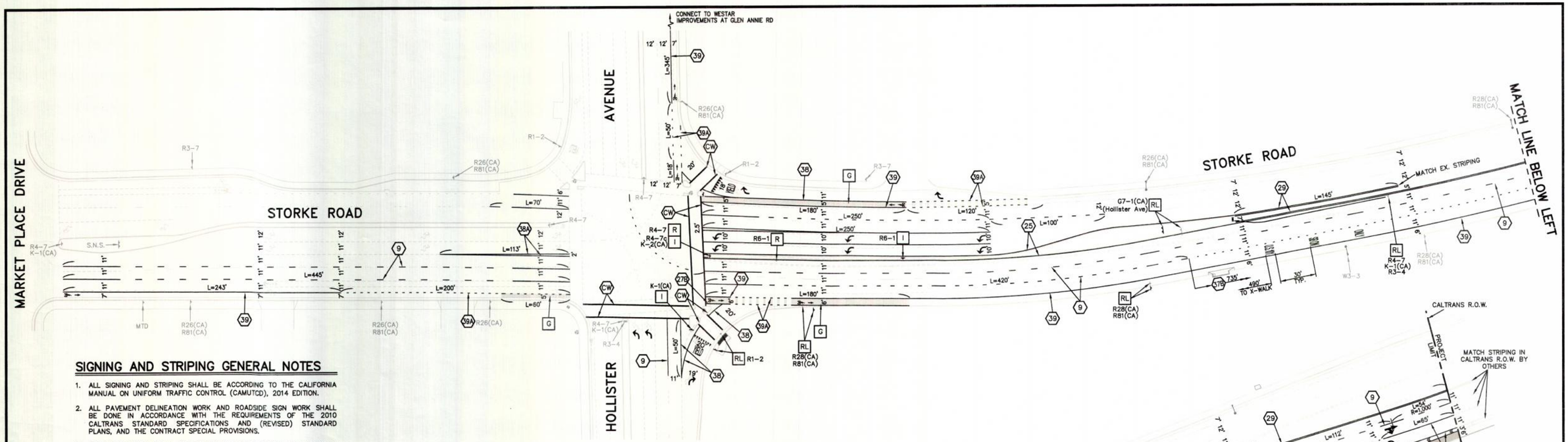
DESIGN DJL CHECKED DBR
DON DONALDSON DATE: 4-6-15
PROJECT ENGINEER
R.C.E. 36,364

CITY OF GOLETA, CALIFORNIA
REVIEWED BY:
SIGNATURE DATE 4-6-15

STORKE RD. NB AT HOLLISTER AVE.
HOLLISTER AVE. & STORKE RD. INTERSECTION
TRAFFIC SIGNAL MODIFICATION PLAN
CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 10 OF 11
PLAN DATE 1/05/15



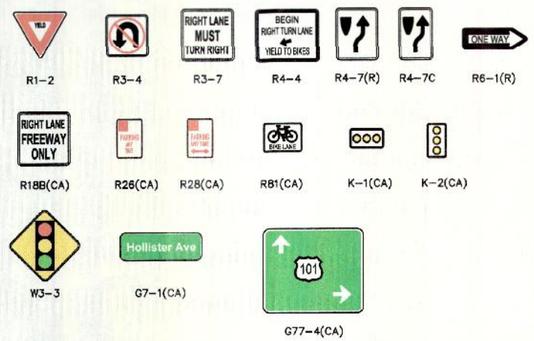
SIGNING AND STRIPING GENERAL NOTES

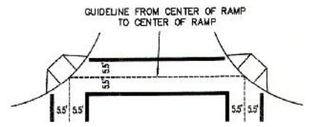
1. ALL SIGNING AND STRIPING SHALL BE ACCORDING TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL (CAMUTCD), 2014 EDITION.
2. ALL PAVEMENT DELINEATION WORK AND ROADSIDE SIGN WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 CALTRANS STANDARD SPECIFICATIONS AND (REVISED) STANDARD PLANS, AND THE CONTRACT SPECIAL PROVISIONS.
3. THE CONTRACTOR SHALL REMOVE BY WET SANDBLASTING ALL EXISTING STRIPING AND PAVEMENT MARKINGS WHICH CONFLICT WITH NEW WORK SHOWN ON THE PLANS. SANDBLAST AREAS FOR PAVEMENT MARKING LEGENDS AND ARROWS SHALL BE RECTANGULAR.
4. ALL CONSTRUCTION MATERIALS FOR ROADSIDE SIGN AND PAVEMENT DELINEATION WORK SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
5. ALL DETAIL (9) LANE LINES AT INTERSECTION APPROACHES SHALL END WITH 50' SOLID 4" STRIPE.
6. LANE WIDTHS SHOWN ON THE PLAN ARE DIMENSIONED FROM FACE OF CURB TO CENTER OF STRIPE, OR BETWEEN CENTERS OF STRIPES.
7. ALL STRIPING SHALL BE PAINT. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
8. SIGNING AND STRIPING SHALL BE CAT TRACKED FOR REVIEW AND APPROVAL BY CITY ENGINEER PRIOR TO FINAL SIGN AND STRIPING INSTALLATION.
9. THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK ONLY.

PAVEMENT DELINEATION LEGEND

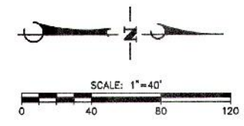
- (XX) INSTALL TRAFFIC STRIPE PER CALTRANS STANDARD PLAN NOS. A20A, A20B, RSP A20C, AND A20D, DETAIL AS NOTED.
- (CW) INSTALL 12" WHITE CROSSWALK LINES AS SHOWN (11' O.C.) PER CALTRANS STANDARD PLAN RSP A24F AND CROSSWALK DETAIL THIS SHEET.
- (CH) INSTALL 8" WHITE CHEVRON STRIPE ANGLED AT 45 DEGREES AWAY FROM TRAFFIC. SPACING 20' O.C. INSTALL CARSONITE SURFACE-ADHERED CANDLESTICK DELINEATORS, OR APPROVED EQUAL, WITHIN CHEVRONS, 20' O.C. (TYP.) IN CENTER OF BUFFER AREA.
- INSTALL TYPE IV(R) WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN RSP A24A.
- INSTALL TYPE IV(L) WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN RSP A24A.
- INSTALL TYPE VII(R) WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN RSP A24A.
- INSTALL "U.S. 101 NB ON ONLY" LEGEND AS SHOWN PER CALTRANS STANDARD PLAN A24E.
- INSTALL WHITE "YIELD" LEGEND AS SHOWN PER CALTRANS STANDARD PLAN A24D.
- INSTALL WHITE BIKE LANE SYMBOL AND BIKE LANE ARROW AS SHOWN PER CALTRANS STANDARD PLAN RSP A24C.
- INSTALL YIELD LINE PER CALTRANS STANDARD PLAN RSP 124E.
- [I] INSTALL NEW SIGN AND POST AS NOTED.
- [R] REMOVE EXISTING SIGN AND POST.
- [RL] REMOVE EXISTING SIGN AND POST. SALVAGE EXISTING SIGN AND INSTALL ON NEW POST.
- [G] PAINT BIKE LANE AREA WITH GREEN REFLECTIVE PAINT PER SPECIAL PROVISIONS.

ROADSIDE SIGN LEGEND





CROSSWALK DETAIL
N.T.S.



REGISTERED PROFESSIONAL ENGINEER DEREK B. RAPP TR2026 TRAFFIC STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DON E. DONALDSON NO 36364 CIVIL STATE OF CALIFORNIA

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STORKE RD. NB AT HOLLISTER AVE.
HOLLISTER AVE. & STORKE RD.
SIGNING AND STRIPING MODIFICATION PLAN
CITY OF GOLETA, STATE OF CALIFORNIA

P&S PROJECT NO. 17535.20
SHEET 11 OF 11
PLAN DATE 3/2015

36-ENG SAVE DATE: 3/27/2015 3:15:55 PM PLOT BY: Shiva, Pete PLOT DATE: 3/27/2015 3:16:22 PM PLOT SCALE: 1:1

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