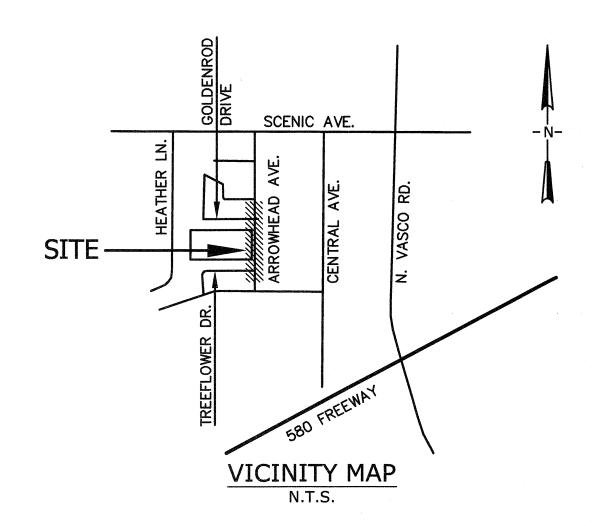
IMPROVEMENT PLANS



ARROWHEAD AVENUE (STA. 1+00 to 5+23)

FOR HINDU COMMUNITY & CULTURAL CENTER LIVERMORE, CALIFORNIA

LEGEND AND ABBREVIATIONS

PROPOSED	EXISTING	DESCRIPTION
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2.0%		DIRECTION OF FLOW
F.F P. TC. G.B. GR. INV. FL BW TW P.O.C.		FINISHED FLOOR PAVEMENT TOP OF CURB GRADE BREAK GRATE INVERT FLOW LINE BASE OF WALL TOP OF CONNECTION

OWNER:

HINDU COMMUNITY & CULTURAL CENTER

1232 ARROWHEAD AVENUE LIVERMORE, CA 94557-6963

(925) 833-9784

ENGINEER:

DEBOLT CIVIL ENGINEERING 811 SAN RAMON VALLEY BLVD.

DANVILLE, CA 94526

(925) 837-3780

ATTN: JAMES DIGGINS

ELECTRICAL ENGINEER:

GIACALONE UTILITY DESIGN & PLANNING 5820 STONERIDGE MALL RD., SUITE 209

PLEASANTON, CA 94588

(925) 467-1740

SOILS ENGINEER:

HENRY JUSTINIANO & ASSOCIATES

P.O. BOX 2338

SAN RAMON, CA 94583

(925) 831-9092

ATTN: HENRY JUSTINIANO

APPROVAL OF THESE PLANS DOES NOT RELEASE THE DEVELOPER OF THE RESPONSIBILITY FOR CORRECTION OF DETAILS OF THE CITY OF LIVERMORE OR THESE PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH SAME SI TO BE MADE.

APPROVED AS TO DESIGN ONLY BASED ON INFORMATION SUBMITTED HEREON.

APPROVED FOR THE CITY OF LIVERMORE:

ROBERT GREGORY VINN ASSISTANT CITY ENGINEER R.C.E. 51222

EXPIRES: 9-30-11

DATE

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COVER SHEET

HINDU COMMUNITY and CULTURAL CENTER 1200 & 1232 ARROWHEAD AVENUE

LIVERMORE

ALAMEDA COUNTY

CALIFORNIA

JAMES E. DIGGINS RENEWAL DATE: 03/31/12 R.C.E. 27818

REVISIONS

DeBolt Civil Engineering 811 San Ramon Valley Boulevard Danville, California 94526 Tel: 925/837-3780 Fax: 925/837-4378

JED / kl Job No.: 06309

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO CURRENT THE LATEST CITY OF LIVERMORE STANDARDS DETAILS AND SPECIFICATIONS.
- 2. BENCHMARK: MONUMENT PIN AT THE INTERSECTION OF HEATHER LANE AND BLUEBELL DRIVE. ELEVATION: 510.42
- 3. FINISH GRADE PROFILE REPRESENTS TOP OF CURB.
- 4. ALL LOT FILL SHALL BE DONE IN CONFORMANCE TO THE SOILS ENGINEER'S RECOMMENDATIONS. SEE SOILS REPORT PREPARED BY HENRY JUSTIANO AND ASSOCIATES (GEOTECHNICAL ENGINERING). ALL WORK SHALL BE DONE IN CONFORMANCE WITH THIS REPORT.
- 5. ANY EXISTING WELLS ENCOUNTERED SHALL BE ABANDONED AND SEALED PER ZONE 7 REQUIREMENTS.
- 6. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION SO THAT THEIR LINES CAN BE MARKED. THOSE TO BE NOTIFIED INCLUDED, BUT MAY NOT BE LIMITED TO:

UNDERGROUND SERVICE ALERT (800) 227-2600

PG&E, AT&T, COMCAST CABLE, ZONE 7 AND THE CITY OF LIVERMORE.

- 7. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- 8. COMPACTION TEST WILL BE PERFORMED ON ALL TRENCHES AND STREET WORK TO VERIFY THAT COMPACTION CONFORMS TO CITY STANDARDS. THE INITIAL TEST AND ONE RE-TEST WILL BE PERFORMED BY THE CITY (24 HOUR NOTICE REQUIRED). ALL ADDITIONAL TESTING WILL BE AT THE DEVELOPER'S/CONTRACTOR'S EXPENSE.
- 9. ALL WORK ADJACENT TO EXISTING PAVEMENT SECTION SHALL BUTT UP TO FULL EXISTING SECTION WHERE FULL SECTION IS NOT ENCOUNTERED, CONTINUE REMOVAL OF ADDITIONAL PAVEMENT UNTIL A FULL SECTION IS FOUND. SEE CITY STANDARD DETAIL ST-25.
- 10. DEBOLT CIVIL ENGINEERING SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF WHEN FIELD STAKING IS TO BE REQUIRED.
- 11. ALL CONSTRUCTION STAKING SHALL OCCUR ON THE PROJECT SITE.
- 12. ALL CONSTRUCTION PIPE GRADES SHOWN AS FLOW LINE ELEVATIONS.
- 13. ONE 6" SANITARY SEWER LATERAL AND CLEANOUT SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE DRAWINGS AND AN "S" STAMPED ON THE FACE OF CURB ABOVE THE LATERAL.
- 14. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 48".
- 15. WATER LATERAL SHALL BE INSTALLED AND A "W" STAMPED ON THE FACE OF CURB ABOVE THE LATERAL PER CITY DETAIL W-17.
- 16. WHENEVER POSSIBLE SANITARY SEWER LATERALS TO CROSS UNDER WATER MAIN.
- 17. FIRE HYDRANTS AND VALVES SHALL BE PER CITY STANDARDS. PAVEMENT MARKERS SHALL BE INSTALLED AT EACH FIRE HYDRANT LOCATION PER CITY STANDARD DETAIL
- 18. ALL FIRE HYDRANT INSTALLATIONS WILL BE SUBJECT TO APPROVAL BY THE FIRE CHIEF. FLOW TESTING BY THE CITY OF LIVERMORE MUNICIPAL WATER DEPARTMENT WILL ONLY BE MADE AT THE REQUEST OF THE PUBLIC WORKS INSPECTOR AT SUCH TIME AS ALL WORK IN THE WATER SUPPLY SYSTEM HAS BEEN COMPLETED.
- 19. PRIOR TO BEGINNING ANY WORK ON EXISTING STREETS, CONTRACTOR SHALL INSTALL ADVANCE WARNING SIGNS (C18 AND C13).
- 20. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE CALTRANS "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" CURRENT EDITION. FAILURE TO COMPLY MAY RESULT IN IMMEDIATE STOPPAGE OF WORK UNTIL THE PROPER TRAFFIC CONTROL IS IN ORDER.
- 21. THE OWNER SHALL HAVE A JOB SUPERINTENDENT OR A DESIGNATED RESPONSIBLE REPRESENTATIVE ON THE JOB SITE ANYTIME WORK IS IN PROGRESS DURING THE CONSTRUCTION OF THE PROJECT. THE DEVELOPER/OWNER SHALL ADVISE THE CITY ENGINEER WHOM THE DESIGNEE IS IN WRITING. THE NOTICE SHALL INCLUDE AN EMERGENCY NOTIFICATION PHONE NUMBER. THE CITY SHALL BE ADVISED IN WRITING IF THERE IS TO BE A CHANGE IN JOB-SITE REPRESENTATIVE.
- 22. A PRE-CONSTRUCTION MEETING OF ALL THE CONTRACTOR'S REPRESENTATIVES INVOLVED IN THE PROJECT WILL BE HELD PRIOR TO THE START OF CONSTRUCTION AT THE REQUEST OF THE CITY OF LIVERMORE CITY ENGINEER.
- 23. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- 24. PERMITS SHALL BE OBTAINED WHENEVER THE WORK COMES UNDER THE JURISDICTION OF ANY OF THE FOLLOWING AGENCIES. AFTER PERMIT IS OBTAINED, THE AGENCY MUST BE NOTIFIED PRIOR TO WORK BEING DONE AS REQUIRED IN THE PERMIT:
 - A. CITY OF LIVERMORE, ENGINEERING DIVISION 1052 SOUTH LIVERMORE AVENUE LIVERMORE CA 94550

TELEPHONE: (925) 960-4500

- 25. ALL SANITARY SEWERS SHALL BE EXTRA STRENGTH VCP OR SDR-26.
- 26. ALL PROPERTY LINES SHALL BE MARKED WITH AN INDENTATION IN THE FACE OF CURB.
- 27. CONSTRUCTION OPERATIONS WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAWCUTTING, CONCRETE WORK, ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGES TO THE STORM DRAIN SYSTEM AND, IF NECESSARY, PROVIDE AN AREA ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS WHICH COULD CONTAMINATE STORM RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAIN FALL AND TO NOT ALLOW STORM WATER TO RUN ONTO THE AREA.

- 28. PAVEMENT CLEANING FLUSHING OF STREETS/PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED, PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEPT.
- 29. STORM DRAIN INLETS STORM DRAIN INLETS MUST BE STENCILED OR MARKED WITH THE FOLLOWING STATEMENT: "NO DUMPING, DRAINS TO BAY." STENCILS MAY BE OBTAINED FROM THE WATER RESOURCES DIVISION OF THE PUBLIC SERVICES DEPARTMENT (925. 960-8100).
- 30. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED BY OCTOBER 15TH.
- 31. A CITY TRANSPORTATION PERMIT IS REQUIRED FOR OVERSIZED LOADS. CONTACT THE CITY OF LIVERMORE ENGINEERING DIVISION AT (925) 960-4500 FOR PERMIT.
- 32. DURING GRADING OPERATIONS, THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES BOTH ON-SITE AND ON THE HAUL ROUTE, ARROWHEAD AVENUE SHALL BE SWEPT A MINIMUM OF TWO TIMES A DAY OR AS REQUIRED BY THE CITY ENGINEER.
- 33. SUBMIT CITY OF LIVERMORE DEVELOPMENT STREET INVENTORY FORM PRIOR TO PRE-CONSTRUCTION MEETING.
- 34. HAUL ROUTE: I-580 TO VASCO ROAD TO SCENIC AVENUE TO ARROWHEAD AVENUE.
- 35. DEVELOPER/DESIGN ENGINEER TO SUBMIT A SCHEDULE FOR WATER SYSTEM THRUST BLOCKS PER CITY STANDARD SPECIFICATIONS.
- 36. DEVELOPER SHALL PROVIDE THE FOLLOWING TO THE CITY PRIOR TO STREET IMPROVEMENT ACCEPTANCE FOR MAINTENANCE:

A) A CERTIFICATION (FINAL SOILS REPORT) FROM THE SOILS ENGINEER STATING THAT ALL OF THE GRADING HAS BEEN COMPLETED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PRELIMINARY SOILS REPORT.

B) DEVELOPMENT STREET INVENTORY (SEE SECTION VI)

C) ELEVATION CERTIFICATION OF ALL INSTALLED MONUMENTS FROM THE SURVEYOR THE ELEVATIONS SHALL BE NOTED ON THE RECORD DRAWINGS.

UTILITY NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LIVERMORE.
- 2. BEFORE COMMENCING EXCAVATION, CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK, OF CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES, AND CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES WITHIN THE WORK AREA.
- 3. THE CONTRACTOR SHALL ABIDE BY THE CONDITIONS OF THE WORK PERMITS AND SHALL PERFORM ALL WORK ORDERED BY SAID PERMITS IN CONFORMANCE THEREWITH AS DIRECTED BY THE ENGINEER.
- 4. BACKFILLING AND COMPACTION FOR ALL TRENCHES SHALL BE INSPECTED AND APPROVED BY THE CITY ENGINEER. NO JETTING IS ALLOWED, ALL COMPACTION SHALL BE BY MECHANICAL MEANS.
- 5. CONTRACTOR TO VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO ANY SITE WORK. ALL WORK FOR STORM DRAIN AND SANITARY INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UPSTREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY.
- 6. THE CITY OF LIVERMORE SHALL BE NOTIFIED 24 HOURS PRIOR TO START OF ANY SEWER CONSTRUCTION AND A REQUEST MADE FOR INSPECTION. THIS NOTIFICATION APPLIES NOT ONLY TO STARTING WORK, BUT ALSO TO RESTARTING WORK WHICH HAS BEEN TEMPORARILY HALTED.
- 7. GENERAL CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES. PROVIDE 6" MINIMUM BETWEEN PIPES CROSSING ELECTRICAL LINES AND 12" MINIMUM BETWEEN PIPES PARALLEL TO ELECTRICAL LINES.
- 8. WATER LINES SHOULD BE 12" MINIMUM ABOVE SANITARY SEWER LINE AT ALL CROSSINGS.
- HAZARD IDENTIFICATION CONTRACTORS ARE HEREBY ADVISED THAT THEY MAY BE EXPOSED TO HAZARDOUS CONDITIONS WHEN INSTALLING OR MODIFYING SANITARY SEWER PIPELINES AND STRUCTURES. SOME OF THESE HAZARDS INCLUDE BUT ARE NOT LIMITED TO: EXPOSURES TO HAZARDOUS GASSES COMMONLY FOUND IN SEWER SYSTEMS SUCH AS HYDROGEN SULFIDE, CARBON DIOXIDE, METHANE, OXYGEN DEFICIENT ENVIRONMENTS, AND OTHER FLAMMABLE EXPLOSIVE GASSES; EXPOSURE TO SEWAGE WHICH MAY CONTAIN BACTERIOLOGICAL, CHEMICAL AND OTHER CONSTITUENTS HARMFUL TO HUMANS; AND EXPOSURE TO AREAS WHICH HAVE LIMITED OR RESTRICTED ACCESS AND EGRESS, WHICH MAY BE CONSIDERED PERMITTED.
- 10. STORM DRAIN PIPE DESIGNATED AS "SD" 24" AND SMALLER TO BE H.D.P.E. OR CLASS III R.C.P. OR BETTER. SUBSTITUTIONS FOR ANY PIPE WITH A PARTICULAR MATERIAL ON THIS PLAN SHALL ONLY BE MADE WITH THE APPROVAL OF THE CITY ENGINEER.
- 11. STORM DRAIN PIPE DESIGNATED AS "SD" 27" AND LARGER TO BE CLASS III R.C.P. OR BETTER SUBSTITUTIONS FOR ANY PIPE WITH A PARTICULAR MATERIAL ON THIS PLAN SHALL ONLY BE MADE WITH THE APPROVAL OF THE CITY ENGINEER.
- 12. ALL CONSTRUCTION ON WATER SYSTEM SHALL BE PER CITY OF LIVERMORE DETAILS AND STANDARDS AND WILL BE SUBJECT TO FINAL INSPECTION AND APPROVAL BY THE CITY OF LIVERMORE.
- 13. VALVE EXTENSIONS ARE REQUIRED ON ALL VALVES WHERE DEPTH OF VALVE NUTS
- 14. ALL SANITARY SEWER LATERALS AND MAINS THAT CROSS OVER WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD DETAIL G-2A & G-2B WHENEVER POSSIBLE SANITARY SEWER LATERALS TO CROSS UNDER WATER MAIN.

UTILITY NOTES CONTINUED

- 15. EPDM VALVES MUST BE USED FOR ALL WATER LINES. GATE VALVES SHALL BE USED FOR VALVES 6" TO 12", AND BUTTERFLY VALVES SHALL BE USED FOR ALL VALVES 14" AND
- 16. ALL UTILITY STRUCTURES INCLUDING, BUT NOT LIMITED TO MANHOLES, CATCH BASINS, WATER VALVES, FIRE HYDRANTS, TELEPHONE AND ELECTRIC VAULTS, AND PULL BOXES, THAT LIE WITHIN THE PUBLIC RIGHT-OF-WAY EASEMENTS OR AREAS AFFECTED BY WORK ON THIS PROJECT SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR OR THE RESPECTIVE UTILITY COMPANY FOR WHICH THE CONTRACTOR IS RESPONSIBLE TO AFFECT COORDINATION.
- 17. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THEIR DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT ARE NOT SHOWN ON THESE DRAWINGS.
- 18. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE TO BE CROSSED, ABOVE OR BELOW, BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. PIPE SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, HE WILL BE SOLELY RESPONSIBLE FOR ANY EXTRA WORK OR MATERIAL REQUIRED IF MODIFICATIONS TO THE DESIGN ARE NECESSARY.

GRADING NOTES

- 1. ALL GRADING AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS IN THE SOILS REPORT PREPARED FOR THIS SITE PREPARED BY HENRY JUSTINANO AND ASSOCIATES.
- 2. CONTRACTOR SHALL DETERMINE HIS OWN EARTH QUANTITIES AND BASE HIS BID ACCORDINGLY.
- ADJUSTMENTS TO BUILDING PAD ELEVATIONS OR PARKING LOT GRADES TO ACHIEVE EARTHWORK BALANCE SHALL BE MADE ONLY WITH APPROVAL OF THE ENGINEER.
- 4. GRADING TO BE SUBJECT TO ADDITIONAL CONDITIONS, IF ANY, IMPOSED BY THE CITY OF LIVERMORE PURSUANT TO ISSUANCE OF A GRADING PERMIT. CITY CONSTRUCTION

INSPECTOR TO BE NOTIFIED 48 HOURS PRIOR TO WORK COMMENCING ON SITE.

5. THE CONTRACTOR SHALL SET HIS STRING OR WIRE THROUGH AT LEAST THREE GRADE STAKES TO VERIFY GRADE. IF THE STAKES DO NOT PRODUCE A UNIFORM GRADE, NOTIFY THE ENGINEER IMMEDIATELY AND HAVE THE GRADES CHECKED PRIOR TO THE TRENCHING OR PLACEMENT OF CONCRETE.

C-2

HINDU COMMUNITY and CULTURAL CENTER 1200 & 1232 ARROWHEAD AVENUE

JAMES E. DIGGINS
RENEWAL DATE: 03/31/12

JAMES E. DIGGINS R.C.E. 27818
RENEWAL DATE: 03/31/12

REVISIONS

DATE

DeBolt Civil Engineering
811 San Ramon Valley Boulevard
Danville, California 94526
Tel: 925/837-3780
Fax: 925/837-4378

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EROSION AND SEDIMENT CONTROL MEASURES

- 1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR CONSTRUCTION DURING THE RAINY SEASON (OCT. 15 TO APRIL 15).
- 2. AFTER THE UNDERGROUND STORM DRAIN SYSTEM IS UNSTALLED, THE CATCH BASINS WILL BE INSTALLED (AS SOON AS PRACTICAL) AND STRAW WATTLE WILL BE PLACED AROUND THOSE CATCH BASINS AS SHOWN ON THIS PLAN UNTIL THIS SITE IS PAVED.
- 3. SHOULD THE ON-SITE STORM DRAINS NOT BE INSTALLED COMPLETELY BY OCTOBER 15, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AT THE EXISTING STORM PIPES STUBBED TO THE SITE.
- 4. THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION PLAN.
- 5. THE CONTRACTOR SHALL PLACE DRAIN ROCK AS A GRAVEL ROADWAY (6" MIN. THICK FOR THE FULL WIDTH AND 50 FEET LONG) AT EACH D/W ENTRANCE TO SITE. ANY MUD THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED THAT SAME DAY AND AS REQUIRED BY THE CITY OF LIVERMORE.
- 6. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED AND CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE CITY ENGINEER.
- DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUN-OFF TO ANY STORM DRAINAGE SYSTEM.
- 8. THIS PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING, PLANS ARE TO BE RESUBMITTED FOR CITY APPROVAL PRIOR TO THE SEPTEMBER FIRST OF EACH SUBSEQUENT YEAR UNTIL THE SITE IMPROVEMENTS ARE ACCEPTED BY THE CITY.
- 9. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON.
- 10. SEDIMENT BASINS SHALL BE CLEANED OUT WHENEVER SEDIMENT REACHES THE SEDIMENT CLEANOUT LEVEL INDICATED ON THE PLANS.
- 11. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.
- 12. ALL CUT AND FILL SLOPES ARE TO BE PROTECTED TO PREVENT OVERBANK FLOW.
- 13. INLETS WHICH ARE NOT USED IN CONJUNCTION WITH STRAW BALES OR SEDIMENT BASINS SHOULD BE COVERED, OR OTHERWISE ADJUSTED TO PREVENT INFLOW, UNLESS THE AREA DRAINED IS UNDISTURBED OR STABILIZED.
- 14. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING THE CONSTRUCTION DUE TO ANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 15. DETAILS FOR THE CONSTRUCTION OF FACILITIES ARE SHOWN ON THESE PLANS.
- 16. THIS PLAN IS INTENDED TO BE USED FOR EROSION CONTROL ONLY. OTHER INFORMATION SHOWN HEREIN MAY NOT BE THE MOST CURRENT.
- 17. CONSTRUCTION OPERATIONS- DUST SHALL BE CONTROLLED. WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAWCUTTING, CONCRETE WORK, ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGES TO THE STORM DRAIN SYSTEM AND, IF NECESSARY, PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS THAT COULD CONTAMINATE STORM RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO NOT ALLOW STORM WATER TO RUN ONTO THE AREA.
- 18. PAVEMENT CLEANING- FLUSHING OF STREETS/PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED, PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEPT.

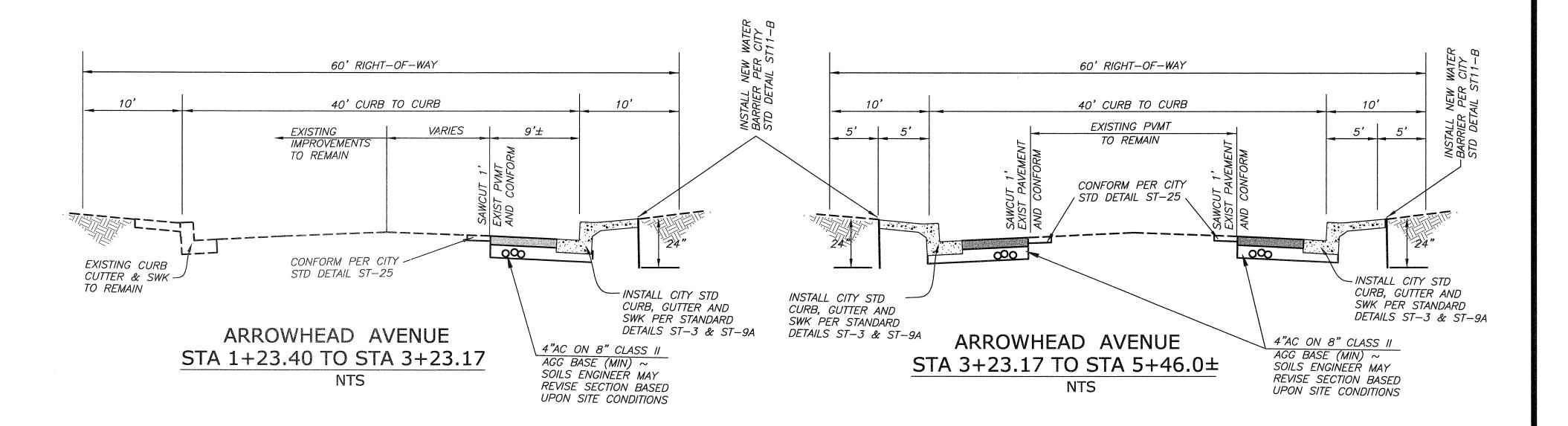
BAAQMD STANDARD NOTES

- 1. WATER ALL ACTIVE DRY CONSTRUCTION AREAS AT LEAST TWICE DAILY
- 2. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- B. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- 4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITE.
- 5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
- 6. HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION
- AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).

 7. ENCLOSE, COVER, WATER TWICE DAILY OR APPLY (NON-TOXIC) SOIL BINDERS TO
- EXPOSED STOCKPILES (DIRT, SAND, ETC.).
- 8. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH.
- 9. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- 10. REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.
- 11. SUSPEND EXCAVATION AND GRADING ACTIVITY WHEN WINDS (INSTANTANEOUS GUSTS) EXCEED 25 MPH.

WATER QUALITY CONTROL NOTES

- 1. EXISTING VEGETATION SHALL BE RETAINING WHERE POSSIBLE:
- 2. GRADING ACTIVITIES WILL BE LIMITED TO THE IMMEDIATE AREA REQUIRED FOR CONSTRUCTION
- 3. EROSION CONTROL MEASURES SUCH AS SILT FENCES, STAKED STRAW BALES, AND TEMPORARY RE-VEGETATION SHALL BE EMPLOYED FOR DISTURBED AREAS TO PREVENT SOIL, DIRT AND DEBRIS FROM ENTERING THE STORM DRAIN SYSTEM.
- 4. NO DISTURBED SURFACES SHALL BE LEFT WITHOUT EROSION CONTROL MEASURES IN PLACE DURING THE WINTER AND SPRING MONTHS.
- 5. SEDIMENT SHALL BE RETAINED ON-SITE BY A SYSTEM OF SEDIMENT BASINS, TRAPS, OR OTHER APPROPRIATE MEASURES.
- 6. MEASURES SHALL BE TAKEN TO ENSURE PROPER COLLECTION AND DISPOSAL OF ALL POLLUTANTS HANDLED OR PRODUCED ON THE SITE DURING CONSTRUCTION, INCLUDING SANITARY WASTES, CEMENT, AND PETROLEUM PRODUCTS.
- 7. ALL STORM WATER CONVEYANCE AND DISCHARGE FACILITIES THAT WILL BE THE RESPONSIBILITY OF THE CITY SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS AND DETAILS.
- 8. THE APPLICANT SHALL MEET AND IMPLEMENT ALL OTHER APPLICABLE CITY, STATE, AND FEDERAL REQUIREMENTS FOR NON-POINT SOURCE RUNOFF.
- 9. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITY, THE PROJECT APPLICANT SHALL COMPLY WITH THE PROVISIONS OF THE RWQCB'S GENERAL PERMIT FOR DEWATERING AND OTHER LOW THREAT DISCHARGES TO SURFACE WATERS. COMPLIANCE SHALL INCLUDE PREPARATION OF A MONITORING AND REPORTING PROGRAM AND IMPLEMENTATION OF BEST MANAGEMENT PRACTICES ASSOCIATED WITH THE DEWATERING ACTIVITIES.



C-3

NOTES & SECTIONS

HINDU COMMUNITY and CULTURAL CENTER 1200 & 1232 ARROWHEAD AVENUE

LIVERMORE

ALAMEDA COUNTY CALIFORNIA

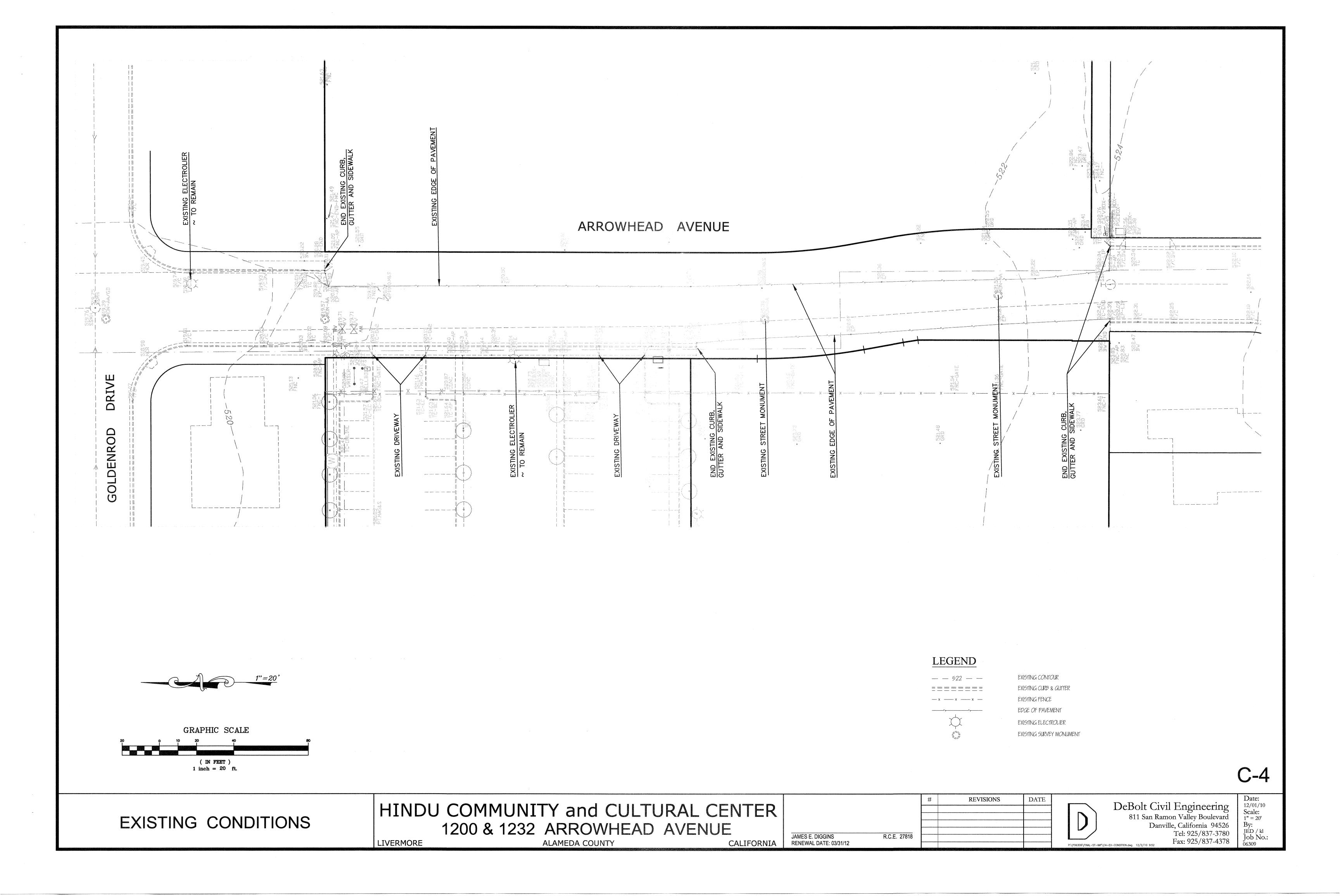
JAMES E. DIGGINS RENEWAL DATE: 03/31/12 R.C.E. 27818

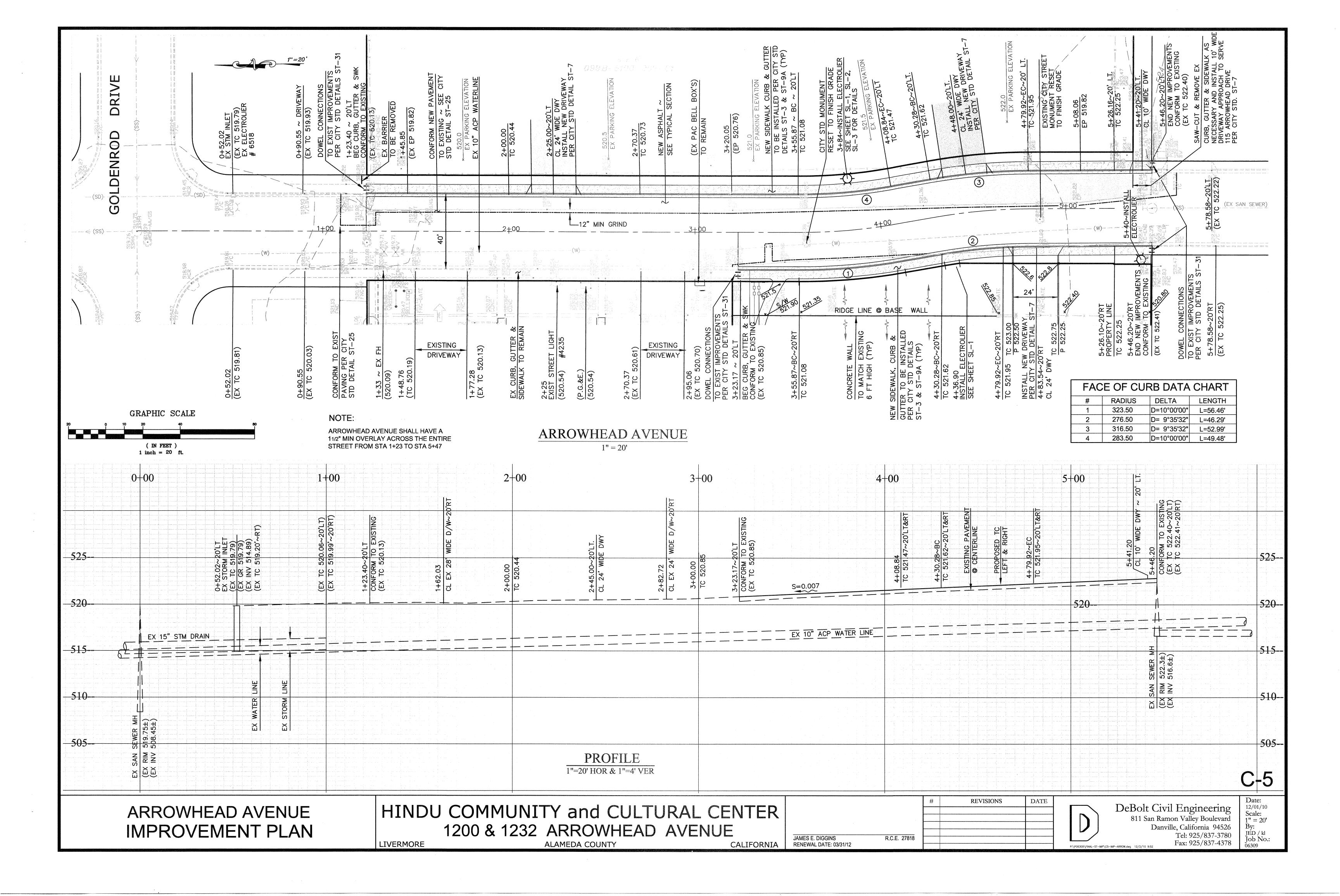
REVISIONS

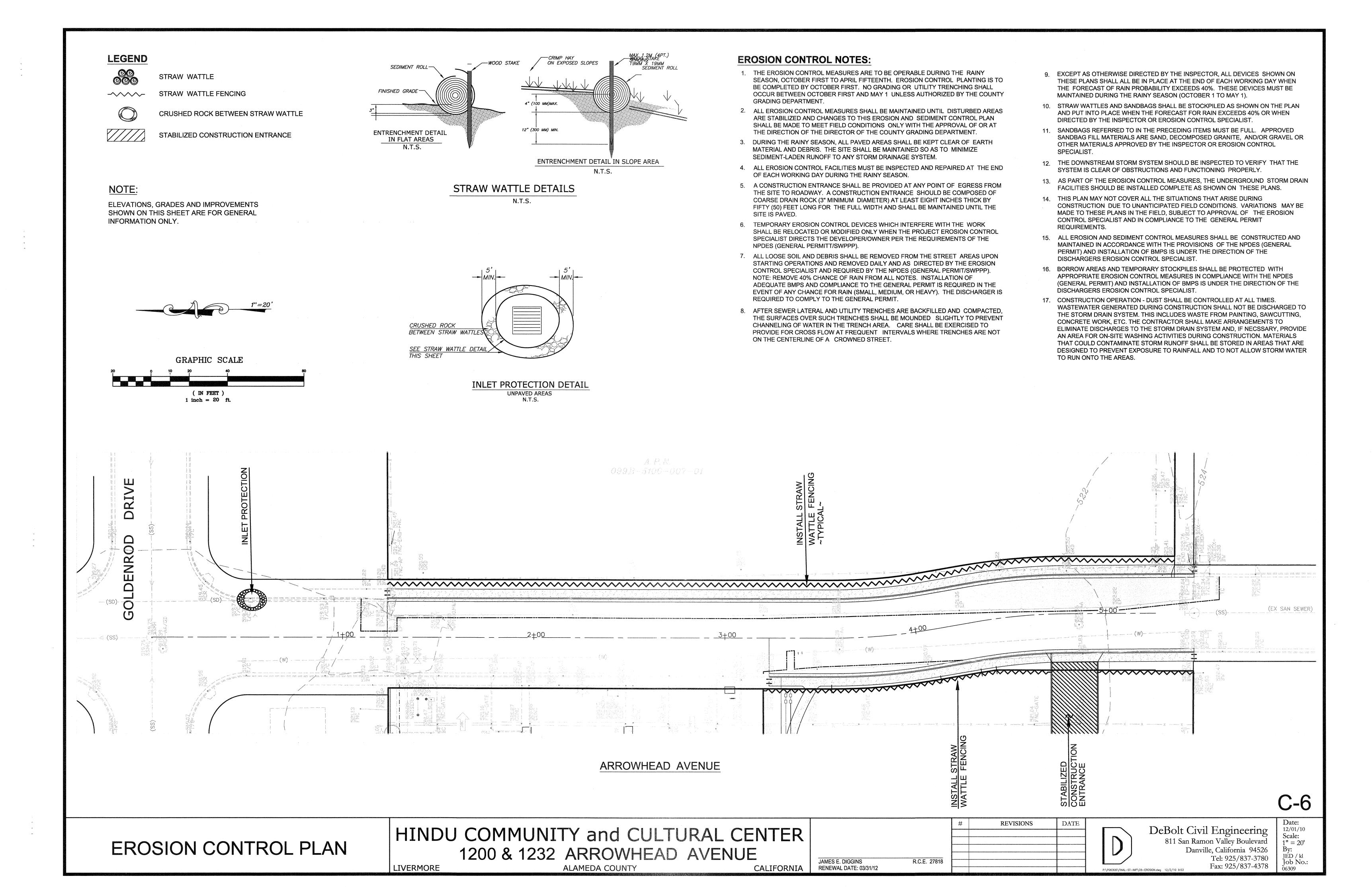
DATE

DeBolt Civil Engineering
811 San Ramon Valley Boulevard
Danville, California 94526
Tel: 925/837-3780
Fax: 925/837-4378

12/01/10 Scale: By: JED / kl Job No.:







ELECTROLIER NOTES:

- 1. ALL MATERIAL AND WORKMANSHIP SHALL FULLY CONFORM WITH THE SPECIFICATIONS OF THE CITY OF LIVERMORE.
- 2. ELECTROLIERS ARE TO BE LOCATED NO CLOSER THAN 3' FROM THE EDGE OF DRIVEWAYS OR 5' FROM HYDRANTS.
- 3. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INSTALL UNDERGROUND SERVICE FROM THE ELECTROLIER TO P.G. & E. SERVICE BOX AND TERMINATE CONDUIT AND WIRE IN BOX AS DIRECTED BY P.G. & E.
- 4. CONDUIT AND FITTINGS SHALL BE U.L. APPROVED. CONDUIT BELOW GRADE SHALL BE MINIMUM 1-1/2" SCHEDULE 40 P.V.C. U.O.N. MINIMUM RADIUS BENDS SHALL BE 18". (FOR CONDUIT DEPTH REFER TO CITY DETAILS).
- 5. CABLE TO BE A.W.G. NUMBER 8, (OR LARGER AS NOTED) 7 STRAND COPPER, TYPE THHN OR APPROVED EQUAL.
- 6. CIRCUITS WITH THREE OR MORE ELECTROLIERS SHALL BE WIRED TO BALANCE THE LOAD. (SEE WIRING DIAGRAM.)
- 7. JUNCTION BOXES SHALL MEET THE REQUIREMENTS FOR STATE NUMBER 3 1/2 PULL BOX WITH COVERS. COVERS TO BE MARKED, "STREET LIGHTING" AND SECURED WITH BRASS HOLD DOWN BOLTS.
- 8. FUSE EACH POLE WITH WATER PROOF IN-LINE BREAK AWAY FUSE HOLDERS AND AT EACH ADJACENT JUNCTION BOX.
- 9. ALL SPLICES SHALL BE MADE IN HANDHOLES OR JUNCTION BOXES ONLY. ALL SPLICES MUST BE PER CAL-TRANS SECTION 86.
- 10. CONTRACTOR TO PLACE POLE NUMBERS ON ALL STREET LIGHT STANDARDS. ALL NUMBERS ARE TO BE IN ACCORDANCE WITH P.G. & E. & LOCAL STANDARDS.

SYMBOL LIST

EXISTING ELECTROLIER

PROPOSED CITY STANDARD ELECTROLIER
PER CITY STANDARD DETAIL ST-14A & ST-14B

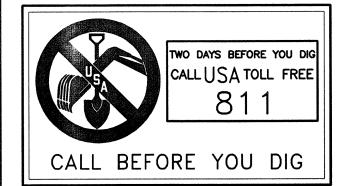
#3 1/2 SPLICE BOX W/ GROUND ROD & FUSE KIT

#3 1/2 SPLICE BOX

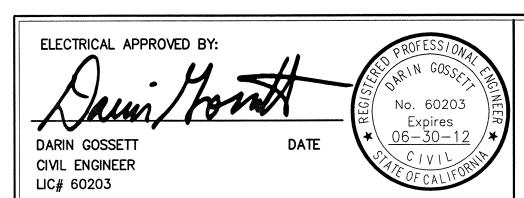
#XXXXX POLE NUMBER

__ __ _ PROPOSED 1 1/2" PVC CONDUIT W/ 2
#8 CU & 1-#10 GND (UNLESS NOTED)

FIRE HYDRANT (BY OTHERS)



PUBLIC/PRIVATE LIGHTING:	PUBLIC
P.G. & E. RATE SCHEDULE:	LS-2A
INSTALL IN JOINT TRENCH:	
INSTALL IN SEPARATE TRENCH	l:
CITY PERMIT REQUIRED:	

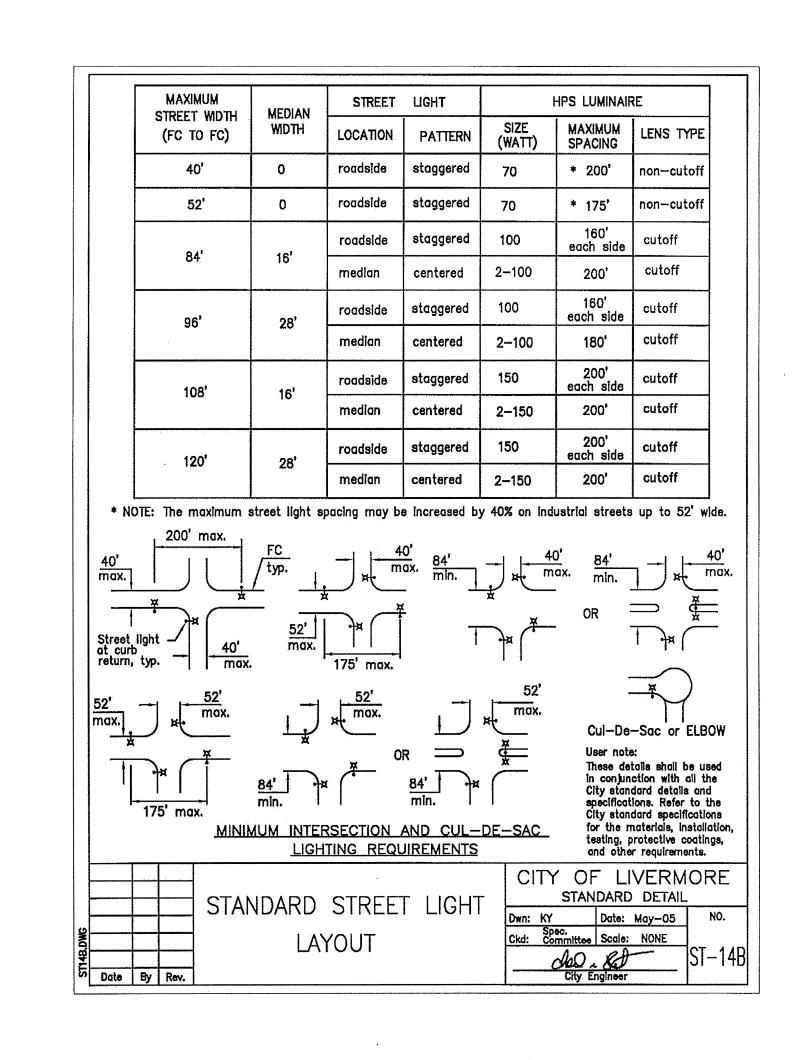


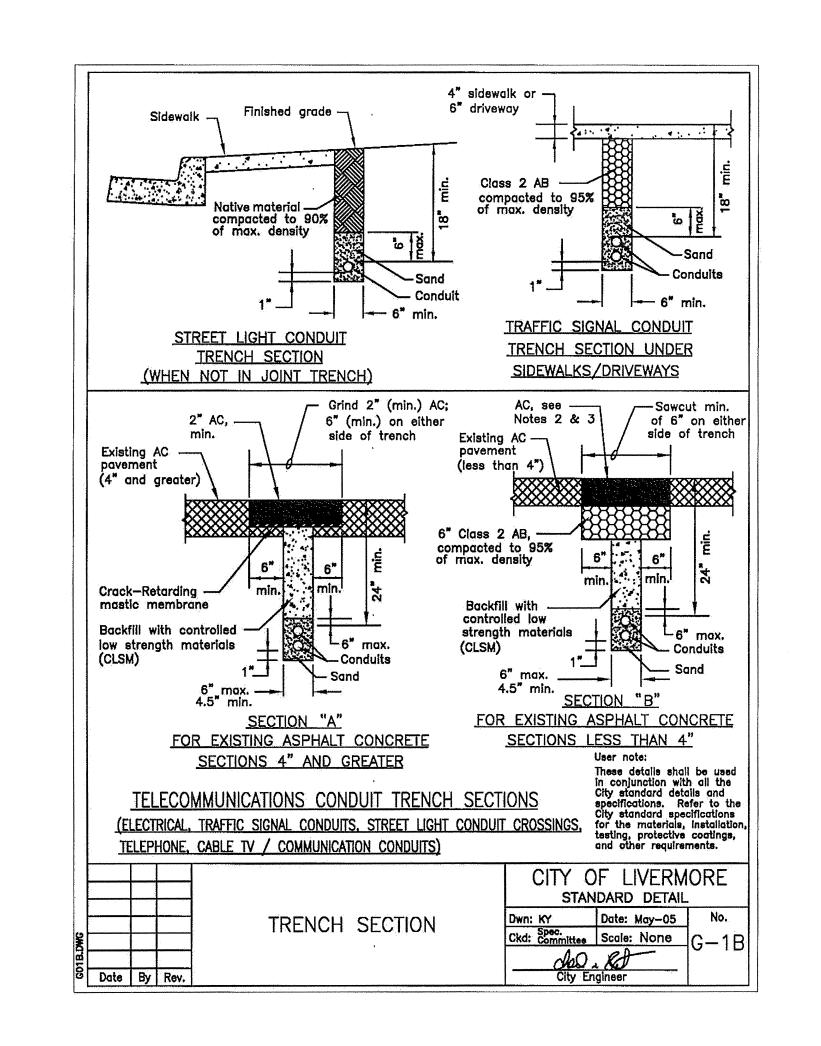
		LUMINAIR	E SCHEL	DULE		
TYPE	LUMINAIRE	MTG. HT.	ARM	POLE HT.	MATERIAL	QUANTITY
COBRAHEAD	70W HPS 120V	33'-"±	12'-0"	30'-0"	GALV. STEEL	2

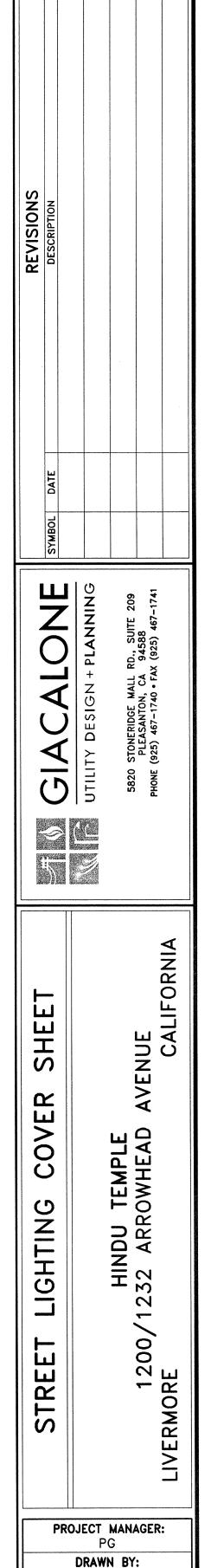
PRIOR TO ORDERING.

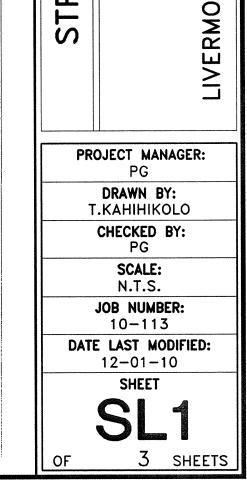


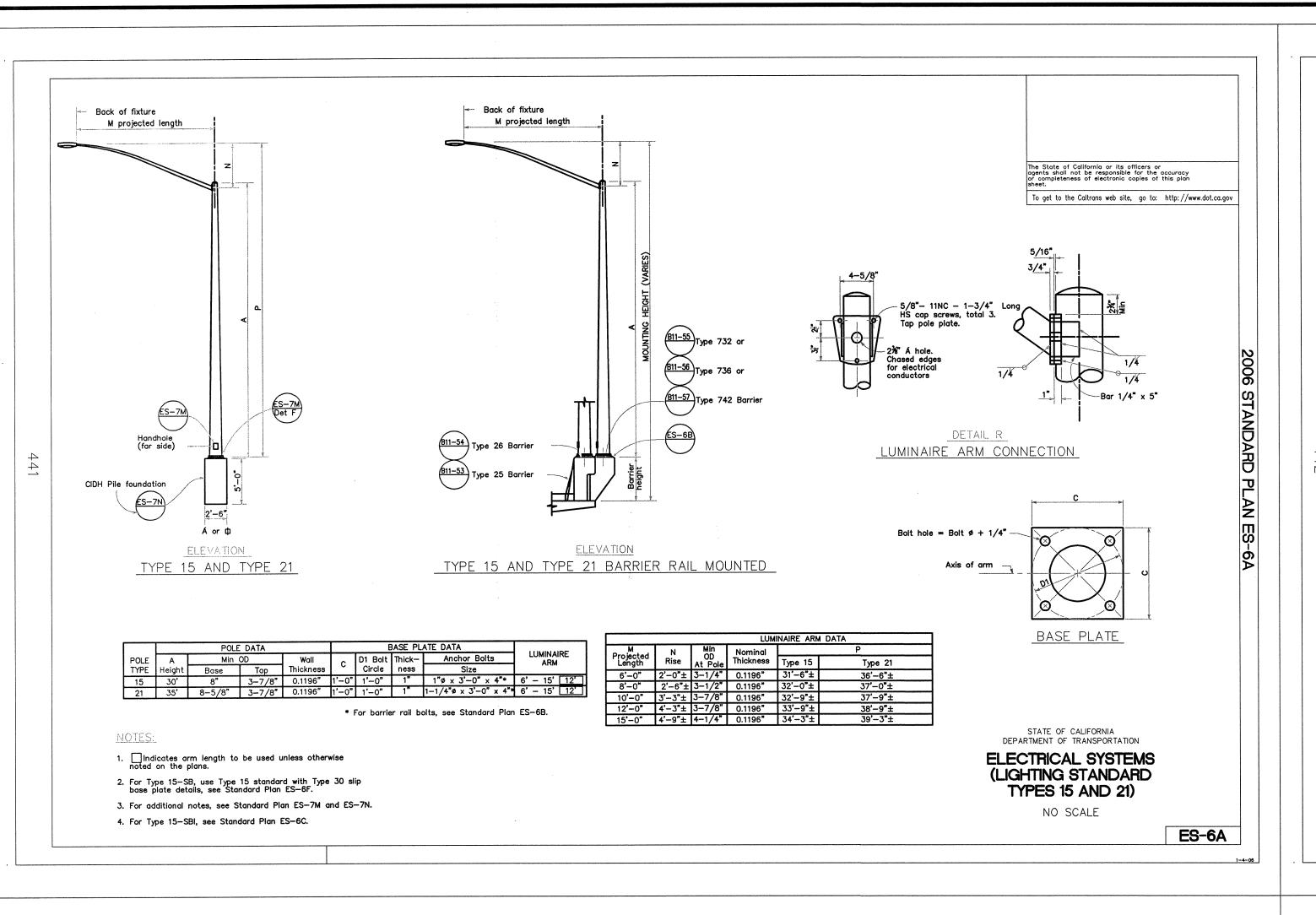
Center of light pole Separated Side Walk Center of light pole Lender of light pole Separated Side Walk Center of light pole Separated Side Walk Center of light pole Conduit, typ. 10' Side Walk
5' SIDEWALK Luminaire Arm = 12' Luminaire Arm = 6' Luminaire Arm = 6' Luminaire Arm = 6' Luminaire Arm = 6'
Type 15D Pole with double arm when street light Is installed in median per Caltrans Standard Plan ES-6D I.D. I.D. NUMERALS TYPICAL DIMENSIONS I.D. TYPICAL DIMENSIONS
Handhole on opposite side of approaching traffic per Caltrans Standar Plan ES-7M # 8 wire ground, min. # 7 PCC over 4" PCC over 4" Class 2 AB, User note:
Foundation per Caltrans Standard Plans ES-7N SECTION A-A These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.
STANDARD STREET LIGHT STANDARD STREET LIGHT Dwn: KY Date: May-05 Ckd: Committee Scale: NONE Ckd: Committee Scale: NONE Ctty Engineer

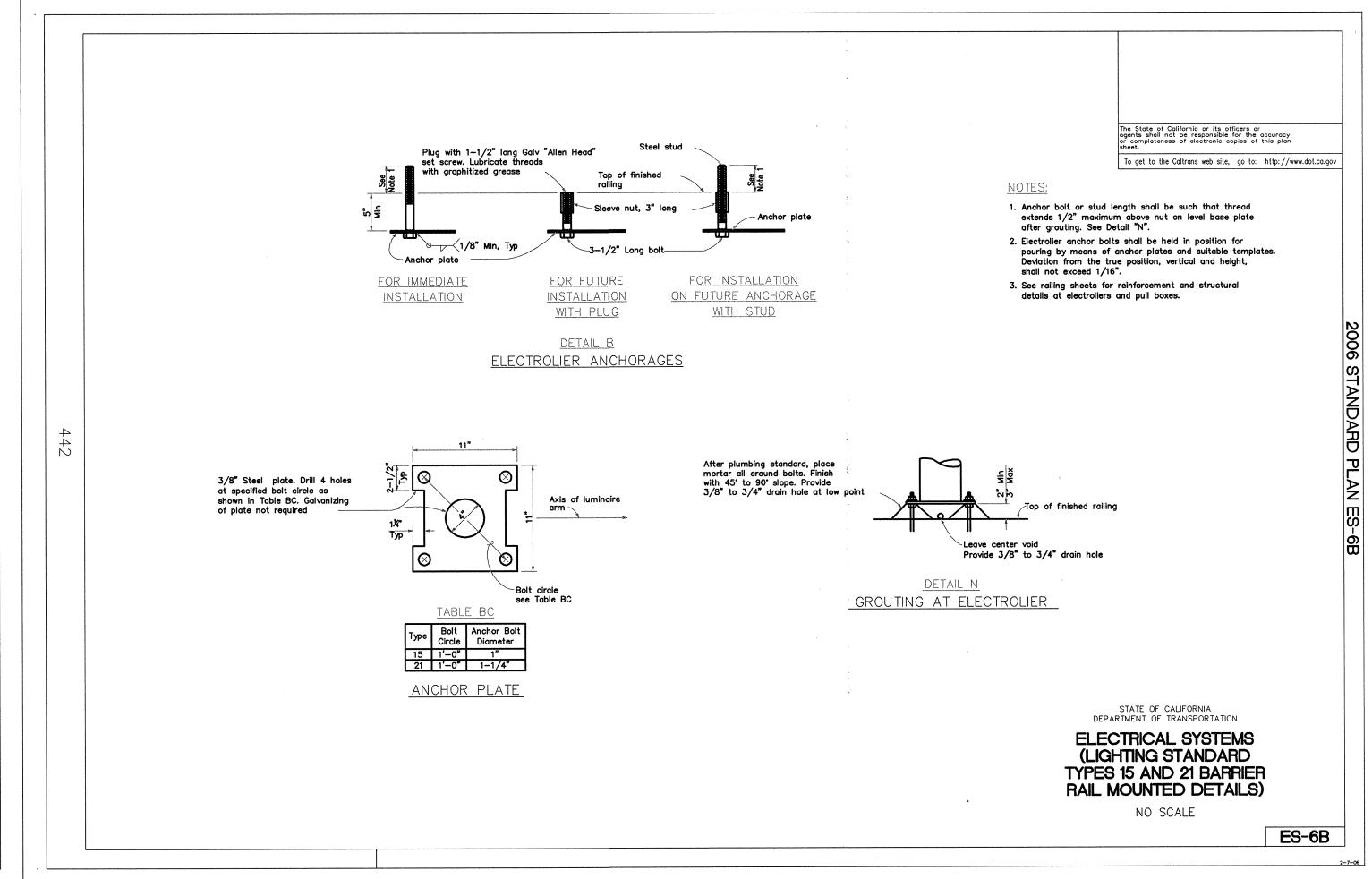












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/ENUE CALIFORNIA

HINDU TEMPLE 32 ARROWHEAD

2

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PROJECT MANAGER:

PG

DRAWN BY:

T.KAHIHIKOLO

CHECKED BY:

PG

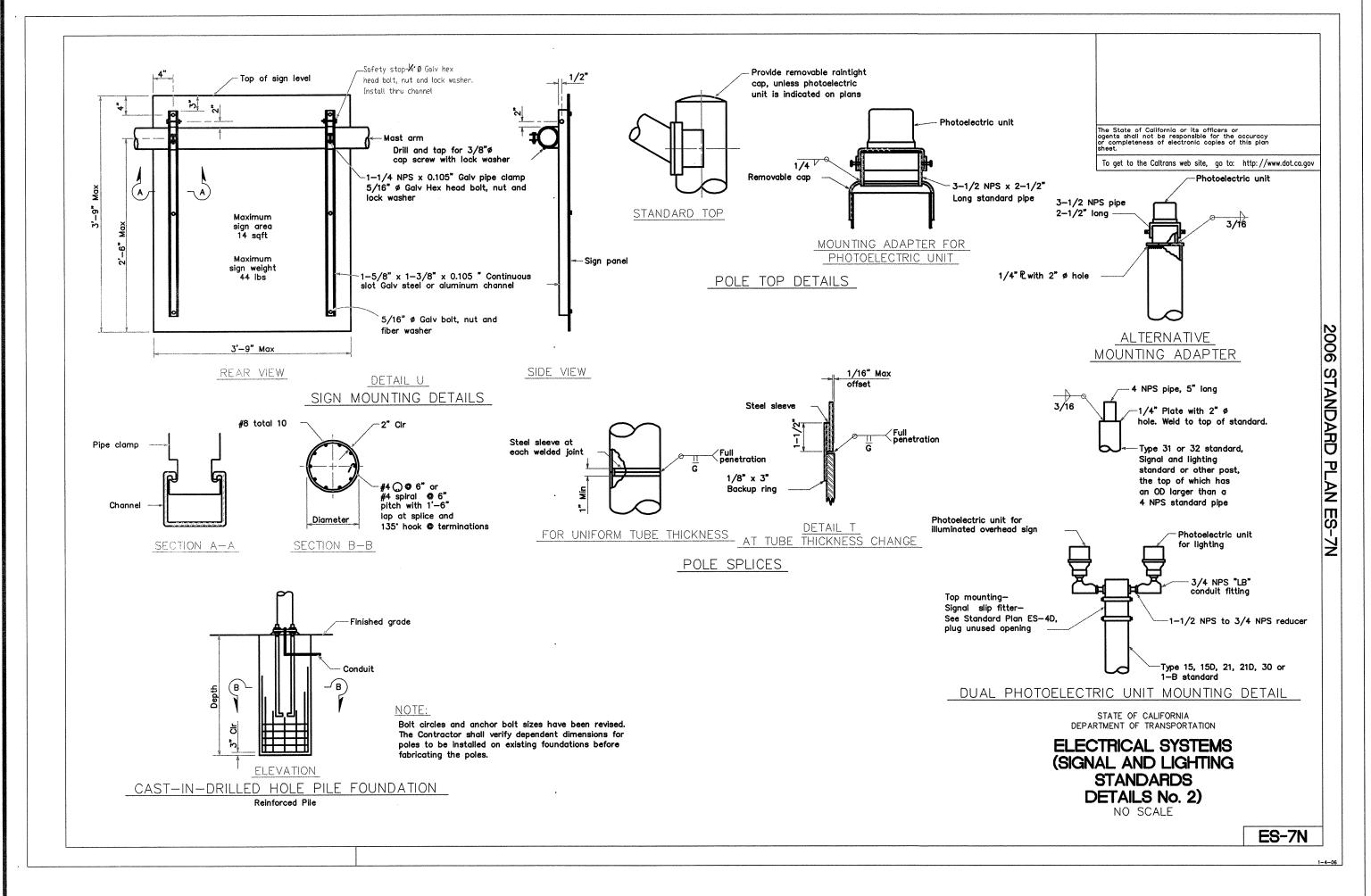
SCALE:

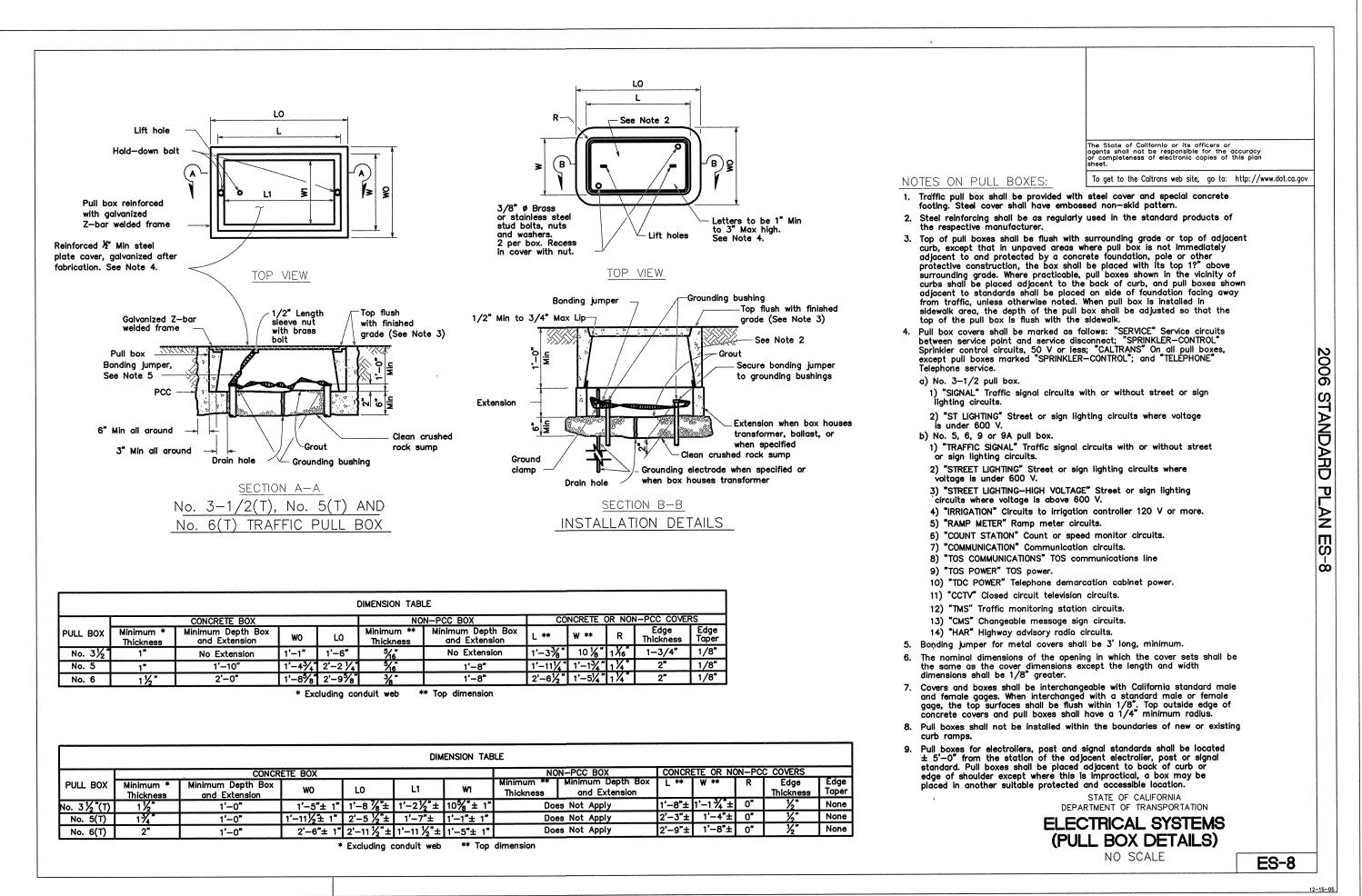
N.T.S.

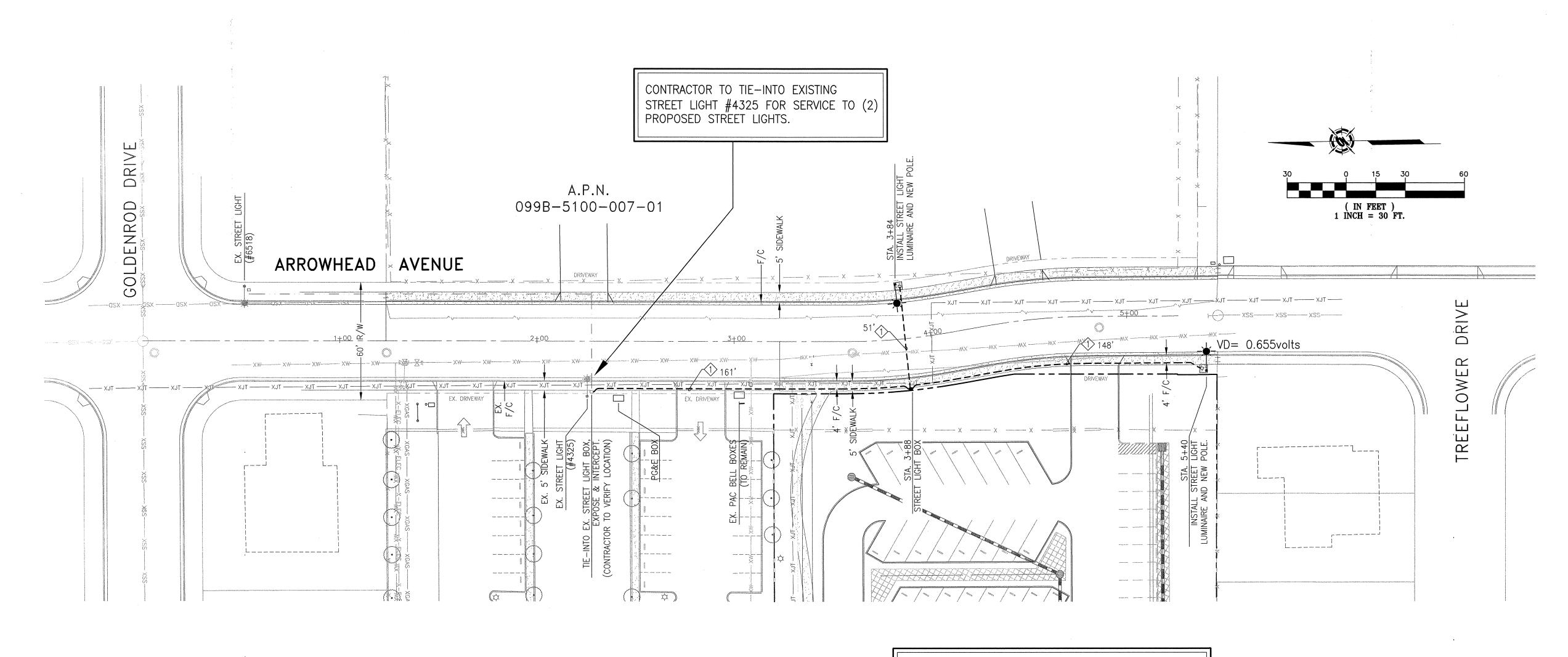
JOB NUMBER: 10-113 DATE LAST MODIFIED: 12-01-10 SHEET

3 SHEETS

120 ERMORE







CALL BEFORE YOU DIG

SYMBOL LIST EXISTING ELECTROLIER PROPOSED CITY STANDARD ELECTROLIER PER CITY STANDARD DETAIL ST-14A & ST-14B #3 1/2 SPLICE BOX W/ GROUND ROD & FUSE KIT #3 1/2 SPLICE BOX (#XXXXX) POLE NUMBER ____ PROPOSED 1 1/2" PVC CONDUIT W/ 2 #8 CU & 1-#10 GND (UNLESS NOTED) FIRE HYDRANT (BY OTHERS)

CONDUCTOR AND CONDUIT SCHEDULE									
AWG OR	N	IIIMRI	RUN ER OF			rors			
CABLE		1	TOWIDI		001	1000	ONS		
#4									
#6	GND								
#8	GND	2							
#10	GND								
#12	GND								
CONDU	IJΤ	1.	5"						

Aø				- BLACK	
	<u> </u>	<u> </u>	1200	- WHITE	
	abla	abla			
Bø ——				- RED	
WIRING DIAGRAM BARE CU					

CITY TO PROVIDE EXISTING CIRCUITRY TO STREET LIGHT #4325 AT WHICH TIME A COMPLETE VOLTAGE DROP CALCULATION AND ACCURATE WIRE SIZING CAN BE COMPLETED.

ADDITIONAL LOAD TO EXISTING CIRCUIT:

| FOOTAGE = 360'

WATTAGE = 140W

VOLTAGE = 120V

PLAN LIGHTING TREET

GIACALONE

UTILITY DESIGN + PLANNING

HINDU TEMPLE 1232 ARROWHEAD 1200/1 LIVERMORE

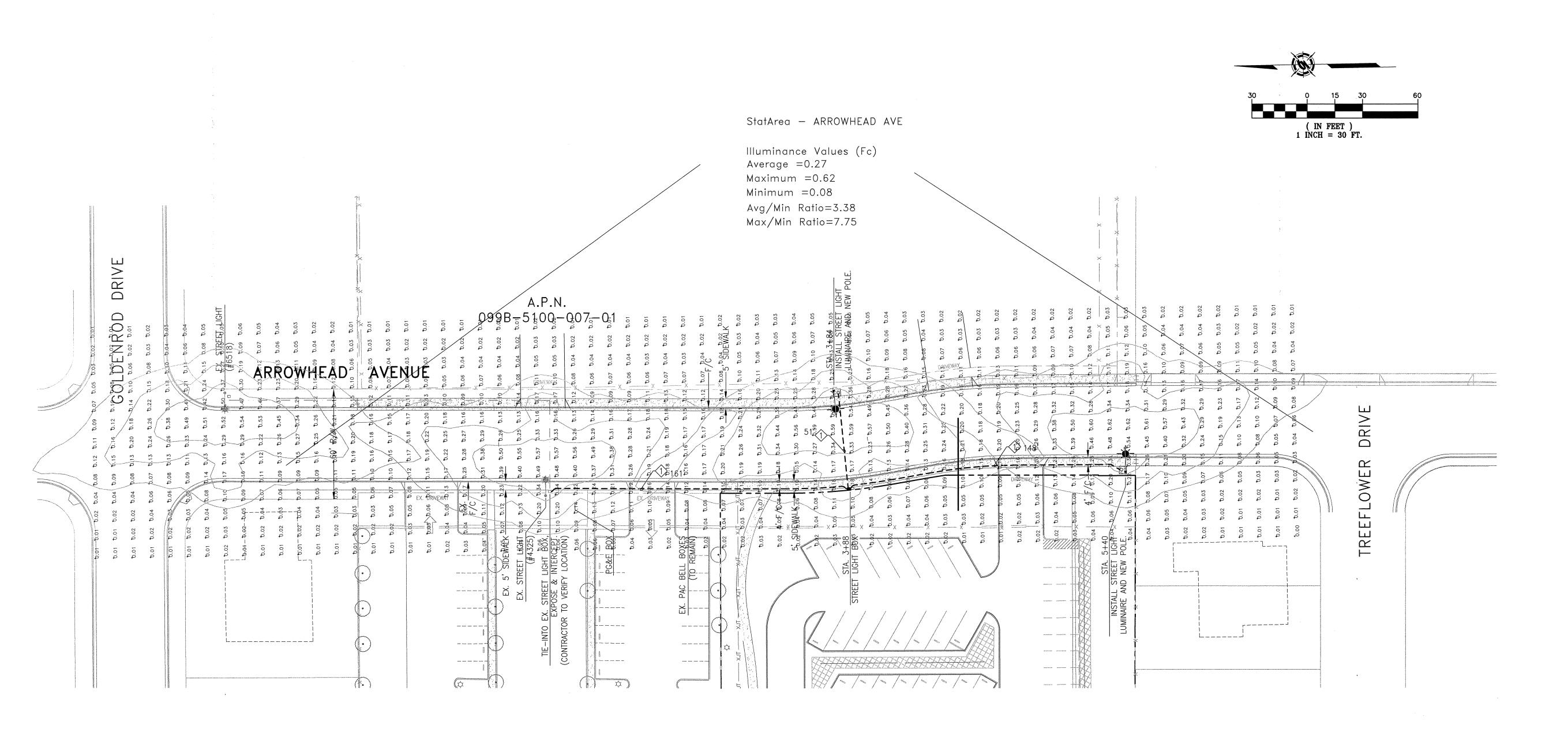
AVENUE CALIFORNIA

PROJECT MANAGER: PG

DRAWN BY: T.KAHIHIKOLO CHECKED BY:

1"=30" JOB NUMBER: 10-113

DATE LAST MODIFIED: 12-01-10 SHEET



Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated resuls may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real evironment conditions do not match the input data, differences will occur between measured values and calculate values.

Luminair	re Sch	nedule					
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description	Filename
-)	2	PROPOSED	SINGLE	6300	0.765	M2AR15SAMN3_TYPE III 70W HPS 12' ARM @ 31.5' L	GE177233.IES
	2	EXISTING	SINGLE	6300	0.702	M2AR15SAMN3_TYPE III 70W HPS 6' ARM @ 31.5' LC	GE177233.IES

Calculation Summary											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min				
ALL CalcPts	Illuminance	Fc	0.13	0.62	0.00	N.A.	N.A.				
StatArea - ARROWHEAD AVE	Illuminance	FC	0.27	0.62	0.08	3.38	7.75				

HINDU TEMPLE: CALCS BY: TIM KAHIHIKOLO VOICE: (925) 467-1740 ext.306 FAX: (925) 467-1741 EMAIL: TIMK@DRYUTILITYDESIGN.COM

DATE: 11-23-10

AGI32 VERSION 2.04 AGI (C) 2009 LIGHTING ANALYSTS, INC. 10440 BRADFORD ROAD, UNIT A LITTLETON, COLORADO 80127 PROJECT MANAGER: PG DRAWN BY: T.KAHIHIKOLO

GIACALONE
UTILITY DESIGN + PLANNING

STUDY

PHOTOMETRIC

AVENUE CALIFORNIA

HINDU TEMPLE 1232 ARROWHEAD

1200/12 LIVERMORE

CHECKED BY: SCALE:

JOB NUMBER: 10-113 DATE LAST MODIFIED: 12-01-10

1"=30'

SHEET PM₁