NOTICE TO BIDDERS
ADDENDUM #4
Bid #105-18 South Education Center Offsite Intersection Improvement Project

Palomar Community College District

The following changes, additions, deletions, clarifications or corrections shall become part of the Bid & Contract Documents for the above listed project. This Addendum #4 forms a part of the contract document and modifies the original bidding documents. Acknowledge receipt of Addendum #4 in the space provided on the bid form. Failure to do so may subject bidder to disqualification.

ADDITIONAL PLANS AND INFORMATION

Release of approved plans from the City of San Diego engineering department.

END OF ADDENDUM #4

Date Issued: July 13, 2018

Ron Ballesteros-Perez, Assistant Superintendent
Vice President Finance & Administrative Services
Palomar Community College District

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.

3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE PERMIT HOLDER OR OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.

4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.

6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.

8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.

9. PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO, CONSTRUCTION MANAGEMENT AND FIELD ENGINEERING DIVISION (858) 627-3200.

10. CONTRACTOR SHALL ONLY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.

11. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.

12. CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.

13. MANHOLES AND PULL BOX COVERS SHALL BE LABELED WITH NAME OF COMPANY.

14. "AS-BUILT" DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.

15. CONTRACTOR SHALL PROVIDE RED-LINES DRAWINGS IN ACCORDANCE WITH 2-5.4, "RED-LINES AND RECORD DOCUMENTS."

16. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ALL UTILITIES UNLESS OTHERWISE SPECIFIED ON THE PLANS.

17. CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK, DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALLY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.

18. CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION ACTIVITIES FOR A PERIOD OF FIVE (5)5 OR MORE DAYS, SATISFACTORY TO THE CITY ENGINEER. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION, SATISFACTORY TO THE CITY ENGINEER.

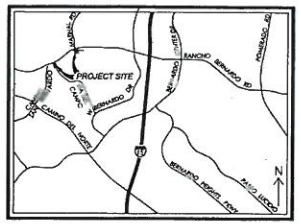
19. PRIOR TO CONSTRUCTION, SURVEY MONUMENTS (HORIZONTAL AND VERTICAL) THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.

20. UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.

IMPROVEMENT PLANS FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT SOUTH EDUCATION CENTER

VIA DEL CAMPO



VICINITY MAP

NOT TO SCALE

MONUMENT PRESERVATION CERTIFICATION

THE PERMITTEE SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS DESTROYED BY CONSTRUCTION. IF A VERTICAL CONTROL MONUMENT IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION.

☒ THE TYPE OF CONSTRUCTION WILL NOT AFFECT ANY SURVEY MONUMENTS

NAME JOEL D. RIIPINEN P.L.S. NO. 7942 EXP. 12-31-2019 DATE 7/10/18

PRIOR TO PERMIT ISSUANCE, THE PERMITTEE SHALL RETAIN THE SERVICE OF A PROFESSIONAL LAND SURVEYOR OR CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING WHO WILL BE RESPONSIBLE FOR MONUMENT PRESERVATION AND SHALL PROVIDE A CORNER RECORD OR RECORD OF SURVEY TO THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, IF APPLICABLE.

I HAVE INSPECTED THE SITE AND DETERMINED THAT:

☐ NO SURVEY MONUMENTS WERE FOUND WITHIN THE LIMITS OF WORK
☐ SURVEY MONUMENTS HAVE BEEN TIED OUT AND A FINAL OR PARCEL MAP WILL BE FILED
☐ A PRE-CONSTRUCTION CORNER RECORD FOR SURVEY MONUMENTS FOUND WITHIN THE LIMITS OF WORK HAS BEEN FILED.
CORNER RECORD #_____ OR RECORD OF SURVEY #_____

NAME JOEL D. RIIPINEN P.L.S. NO. 7942 EXP. 12-31-2019 DATE

POST CONSTRUCTION CORNER RECORD

☐ POST CONSTRUCTION CORNER RECORD FOR SURVEY MONUMENTS DESTROYED DURING CONSTRUCTION AND REPLACED AFTER CONSTRUCTION.
CORNER RECORD #_____ OR RECORD OF SURVEY #_____

NAME JOEL D. RIIPINEN P.L.S. NO. 7942 EXP. 12-31-2019 DATE

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

EUGENE DAVIS COWAN III R.C.E. NO. 66803 DATE 7/2/2018

KIMLEY-HORN AND ASSOCIATES, INC.
401 B STREET, SUITE 600
SAN DIEGO, CA 92101
619-272-7190
DAVID.COWAN@KIMLEY-HORN.COM

OWNER/APPLICANT

PALOMAR COMMUNITY COLLEGE DISTRICT
1140 WEST MISSION ROAD, SAN MARCOS, CA 92069
(760) 744-1150

REFERENCE DRAWINGS

IMPROVEMENT OF VIA DEL CAMPO _____ 18372-D
WESTWOOD VALLEY UNIT NO. 1 – IMPROVEMENT PLANS _____ 22904-D
PEDESTRIAN EASEMENT _____ 40674-B

SITE ADDRESS

INTERSECTION OF RANCHO BERNARDO ROAD & VIA DEL CAMPO, AND INTERSECTION OF RANCHO BERNARDO ROAD & MATINAL ROAD

TOPOGRAPHY SOURCE

AGUIRRE & ASSOCIATES – 8363 CENTER DR. STE 5A, LA MESA, CA 91942

FIELD SURVEY
SEPTEMBER 29, 2017

BENCHMARK

BRASS CAP IN THE TOP OF AN INLET AT THE SOUTHWEST CORNER AT THE INTERSECTION OF RANCHO BERNARDO ROAD WITH VIA DEL CAMPO. ELEVATION = 681.953 MSL

EXISTING LEGAL DESCRIPTION

N/A

SHEET INDEX

TITLE SHEET. 1
NOTES. 2
IMPROVEMENT PLAN. 3
EROSION CONTROL PLAN. 4
DETAILS. 5
SIGNING AND STRIPING PLAN. 6
TRAFFIC SIGNAL PLAN. 7
LANDSCAPE PLAN. 8
LANDSCAPE DETAIL. 9
IRRIGATION PLAN. 10
IRRIGATION DETAIL. 11
SPECIFICATIONS. 12-13
TRAFFIC CONTROL PLAN. T01-T05

CONSTRUCTION STORM WATER PROTECTION NOTES

1. TOTAL SITE DISTURBANCE AREA (ACRES) _____ 0.064

HYDROLOGIC UNIT / WATERSHED HYDROLOGIC: _____ SAN DIEGUITO

HYDRAULIC SUB AREA NAME AND NUMBER: _____ LA JOLLA 5.12

2. THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE

☒ MWPCP

☐ WPCP

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND SUBSEQUENT AMENDMENTS.

☐ SWPPP

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND CONSTRUCTION GENERAL PERMIT ORDER NUMBER 2009-009-DWQ AS AMENDED BY ORDER 2010-0014 DWQ AND 2012-0006-DWQ

TRADITIONAL: RISK LEVEL ☐1 ☐2 ☐3
LUP RISK LEVEL ☐1 ☐2 ☐3

3. CONSTRUCTION SITE PRIORITY

☐ ASBS ☐ HIGH ☐ MEDIUM ☒ LOW

WDID NO: _____

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PWPI092816-05	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S CUSTOMARY STANDARD SPECIFICATIONS, 2015 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S CUSTOMARY STANDARD PLANS, 2015 EDITION

LEGEND

PROPOSED IMPROVEMENTS

IMPROVEMENT	STANDARD DWGS.	SYMBOL
TYPE 8-1 MEDIAN CURB	SDG-154	
RAISED MEDIAN	SDG-112	
CROSS GUTTER	SDG-156, SDG-157 G-10	
CONCRETE PAVEMENT	SDG-113, G-18	
2' CONCRETE BAND (PRIVATE)		

EXISTING IMPROVEMENTS

ITEM	SYMBOL
SIGN	
SURVEY MONUMENT, AS NOTED	
WATER PIPE	W
STORM DRAIN	D
SEWER	S
IRRIGATION LINE	
DRIVEWAY	

ABBREVIATIONS

ACP	ASBESTOS CEMENT PIPE
℄	CENTERLINE
EX.	EXISTING
FL	FLOWLINE
FND	FOUND
PIP	PROTECT IN PLACE
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
ROW	RIGHT-OF-WAY
TC	TOP OF CURB
TYP	TYPICAL

ENGINEERING PERMIT NO: _____
DISCRETIONARY PERMIT NO: _____
PRIVATE CONTRACT

TITLE SHEET FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT SOUTH EDUCATION CENTER

VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 1 OF 13 SHEETS

PROJECT NO. 573681

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	KHA			

V.T.M. _____

1952-6299
NAD83 COORDINATES

312-1739
LAMBERT COORDINATES

AS-BUILTS
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40375- 1 -D

FOR STORMWATER BMP TABLES, SEE SHEET 2

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of SAN DIEGO
DEVELOPMENT SERVICES DEPARTMENT

STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
RANCHO BERNARDO ROAD	MAJOR ARTERIAL	55	25,100	101
MATINAL ROAD	LOCAL COLLECTOR	30	2,500	60
VIA DEL CAMPO ROAD	COLLECTOR	35	8,800	70

REGISTERED PROFESSIONAL ENGINEER EUGENE DAVIS COWAN III C86803 CIVIL STATE OF CALIFORNIA

CONSTRUCTION BMP GENERAL NOTES

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY EROSION AND SEDIMENT CONTROLSHALL BE INSTALLED BY THE CONTRACTOR OR QUALIFIED PERSON(S) AS INDICATED BELOW

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED MINOR WATER POLLUTION CONTROL PLAN (MWPCP) FOR CONSTRUCTION LEVEL BMP'S AND, IF APPLICABLE, THE STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR POST CONSTRUCTION TREATMENT CONTROL BMP'S.

2. CONTRACTOR TO LOCATE INLET AT LOWER ELEVATION ALONG RANCHO BERNARDO ROAD AND APPLY INLET PROTECTION PER SC-10.

3. CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL AND PEDESTRIAN CONTROL WHILE PERFORMING WORK IN THE RIGHT-OF-WAY.

4. CONTRACTOR TO PROVIDE STREET SWEEPING AND VACUUMING AS A MEANS OF PREVENTING OFFSITE TRACKING OF SEDIMENT PER SC-7

2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLETS. INLET PROTECTION IN THE PUBLIC RIGHT OF WAY MAY BE TEMPORARILY REMOVED WHERE IT IS PRONE TO FLOODING PRIOR TO A RAIN EVENT AND REINSTALLED AFTER RAIN IS OVER.

3. ALL CONSTRUCTION BMPS SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.

4. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.

5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED MWPCP WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES AND/OR STOP WORK NOTICES.

6. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.

7. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, CONCRETE RINSE, OR OTHER CONSTRUCTION RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMPS THAT ARE ACCEPTABLE TO THE ENGINEER AND AS INDICATED IN THE SWPPP/WPCP

8. THE CONTRACTOR OR QUALIFIED PERSON SHALL CLEAR DEBRIS, SILT AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND AFTER EACH RAIN EVENT.

9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE DISCHARGE. AS SOON AS PRACTICAL, ANY AND ALL WASTE MATERIAL, SEDIMENT AND DEBRIS FROM EACH NON STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMPS WHEN RAIN IS IMMINENT.

11. THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO WORKING ORDER YEAR ROUND.

12. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO GRADING INACTIVITY OR UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT-LADEN DISCHARGES.

13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

14. ALL EROSION AND SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED MWPCP SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENTED AND INSTALLED TO THE SATISFACTION OF THE RESIDENT ENGINEER.

15. UPON NOTIFICATION BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL ARRANGE FOR MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMPS RELATIVE TO ANTICIPATED CONSTRUCTION ACTIVITIES.

16. THE CONTRACTOR SHALL CONDUCT VISUAL INSPECTIONS DAILY AND MAINTAIN ALL BMPS AS NEEDED. VISUAL INSPECTIONS AND MAINTENANCE OF ALL BMPS SHALL BE CONDUCTED BEFORE, DURING AND AFTER EVERY RAIN EVENT AND EVERY 24 HOURS DURING ANY PROLONGED RAIN EVENT. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL BMPS AS SOON AS POSSIBLE AS SAFETY ALLOWS.

18. PERFORMANCE STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING WATER POLLUTION CONTROL MEASURES BASED ON PERFORMANCE STANDARDS. PERFORMANCE STANDARDS SHALL INCLUDE:

A. NON-STORM WATER DISCHARGES FROM THE SITE SHALL NOT OCCUR TO THE MEP3. STORM WATER DISCHARGES SHALL BE FREE OF POLLUTANTS INCLUDING SEDIMENT TO THE MEP.

B. EROSION SHALL BE CONTROLLED BY ACCEPTABLE BMPS TO THE MEP. IF RILLS AND GULLIES APPEAR THEY SHALL BE REPAIRED AND ADDITIONAL BMPS INSTALLED TO PREVENT A REOCCURRENCE OF EROSION.

C. AN INACTIVE AREA SHALL BE PROTECTED TO PREVENT POLLUTANT DISCHARGES. A SITE OR PORTIONS OF A SITE SHALL BE CONSIDERED INACTIVE WHEN CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD OF 14 OR MORE CONSECUTIVE DAYS.

MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.

2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.

3. OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

Source Control BMP Checklist for Standard Projects — Form I-4

All development projects must implement source control BMPs SC-1 through SC-6 and. Refer to Chapter 4 and Appendix E of the BMP Design Manual for information to implement BMPs shown in this checklist.

Note: All selected BMPs must be shown on the construction plans.

SC-1 Prevention of Illicit Discharges into the MS4	☒ Yes	☐ No	☐ N/A
SC-2 Storm Drain Stenciling or Signage	☐ Yes	☐ No	☒ N/A
SC-3 Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
SC-4 Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
SC-5 Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
SC-6 BMPs based on Potential Sources of Runoff Pollutants			
On-site storm drain inlets	☐ Yes	☐ No	☒ N/A
Interior floor drains and elevator shaft sump pumps	☐ Yes	☐ No	☒ N/A
Interior parking garages	☐ Yes	☐ No	☒ N/A
Need for future indoor & structural pest control	☐ Yes	☐ No	☒ N/A
Landscape Outdoor Pesticide Use	☐ Yes	☐ No	☒ N/A
Pools, spas, ponds, decorative fountains, and other water features	☐ Yes	☐ No	☒ N/A
Food service	☐ Yes	☐ No	☒ N/A
Refuse areas	☐ Yes	☐ No	☒ N/A
Industrial processes	☐ Yes	☐ No	☒ N/A
Outdoor storage of equipment or materials	☐ Yes	☐ No	☒ N/A
Vehicle/Equipment Repair and Maintenance	☐ Yes	☐ No	☒ N/A
Fuel Dispensing Areas	☐ Yes	☐ No	☒ N/A
Loading Docks	☐ Yes	☐ No	☒ N/A
Fire Sprinkler Test Water	☐ Yes	☐ No	☒ N/A
Miscellaneous Drain or Wash Water	☐ Yes	☐ No	☒ N/A
Plazas, sidewalks, and parking lots	☐ Yes	☐ No	☒ N/A
SC-6A: Large Trash Generating Facilities	☐ Yes	☐ No	☒ N/A
SC-6B: Animal Facilities	☐ Yes	☐ No	☒ N/A
SC-6C: Plant Nurseries and Garden Centers	☐ Yes	☐ No	☒ N/A
SC-6D: Automotive-related Uses	☐ Yes	☐ No	☒ N/A

Discussion / justification for all "No" answers shown above:
Click or tap here to enter text.

Site Design BMP Checklist for Standard Projects — Form I-3

All development projects must implement site design BMPs SD-1 through SD-8. Refer to Chapter 4 and Appendix E of the BMP Design Manual for information to implement BMPs shown in this checklist.

Note: All selected BMPs must be shown on the construction plans.

SD-1 Maintain Natural Drainage Pathways and Hydrologic Features	☒ Yes	☐ No	☐ N/A
SD-2 Conserve Natural Areas, Soils, and Vegetation	☒ Yes	☐ No	☐ N/A
SD-3 Minimize Impervious Area	☒ Yes	☐ No	☐ N/A
SD-4 Minimize Soil Compaction	☒ Yes	☐ No	☐ N/A
SD-5 Impervious Area Dispersion	☒ Yes	☐ No	☐ N/A
SD-6 Runoff Collection	☒ Yes	☐ No	☐ N/A
SD-7 Landscaping with Native or Drought Tolerant Species	☒ Yes	☐ No	☐ N/A
SD-8 Harvesting and Using Precipitation	☐ Yes	☒ No	☐ N/A

Discussion / justification for all "No" answers shown above:
Impervious areas are directed to landscape areas to infiltrate as much as possible.

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4208
Tel: (619) 234-946

EUGENE DAVIS COMAN III R.C.E. NO. 86803

7/2/2018
DATE

PROFESSIONAL ENGINEER EUGENE DAVIS COMAN III C86803 CIVIL STATE OF CALIFORNIA

PRIVATE CONTRACT

NOTES FOR:
PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 2 OF 13 SHEETS

PROJECT NO. 579881

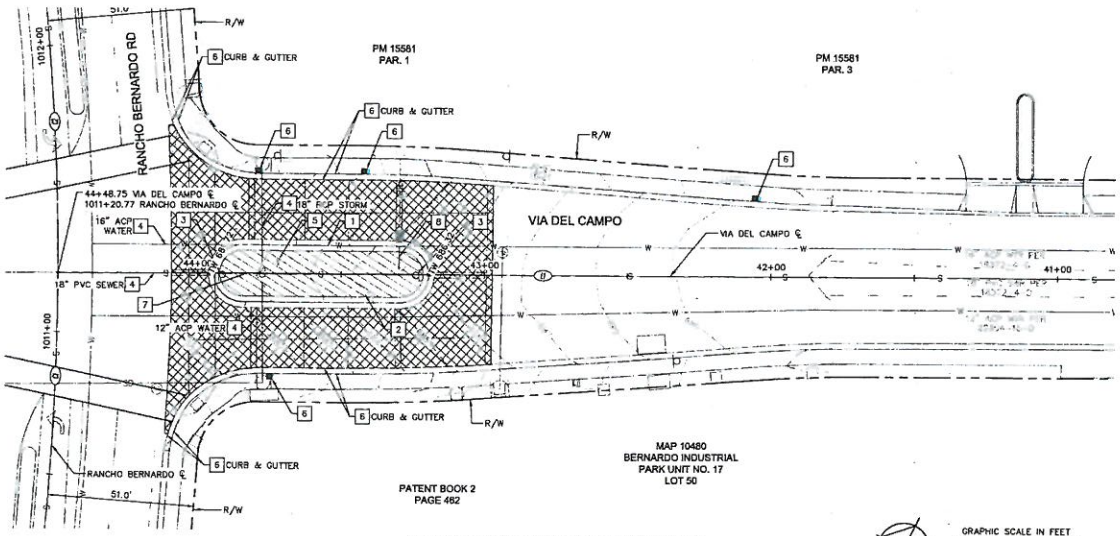
FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

V.T.M.
1957-6299
NAD83 COORDINATES
312-1739
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

40375- 2 -D



RANCH BERNARDO RD & VIA DEL CAMPO
DEMOLITION PLAN

GRAPHIC SCALE IN FEET 0 10 20 40

NORTH

LEGEND

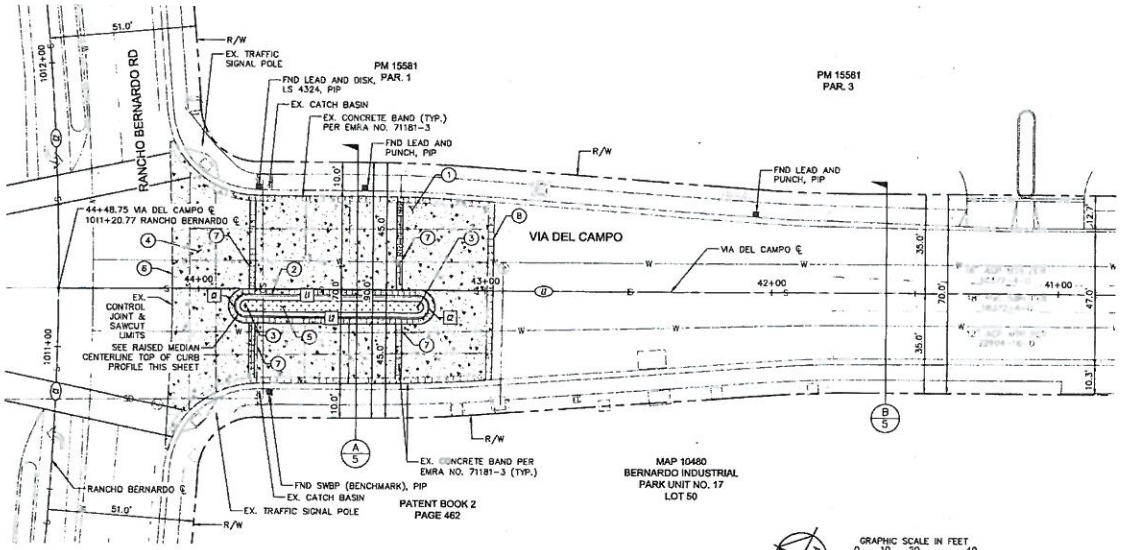
- RIGHT-OF-WAY
- SAWCUT / LIMITS OF WORK
- CENTERLINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING SEWER
- EXISTING IRRIGATION LINE
- DEMOLISH CONCRETE
- REMOVE AND SALVAGE EXISTING LANDSCAPE
- ENRICHED CONCRETE PAVEMENT, MATCH EXISTING FINISH

DEMOLITION NOTES

1. DEMOLISH 6" CURB, 2' CONCRETE BAND AND 2' CONCRETE STRIP
2. REMOVE EXISTING TREE AND STUMP
3. REMOVE EXISTING "KEEP RIGHT" SIGN
4. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE
5. CLEAR AND GRUB EXISTING LANDSCAPE
6. PROTECT IN PLACE
7. REMOVE EXISTING LANDSCAPE DRAIN
8. REMOVE IRRIGATION WITHIN EXISTING MEDIAN & TEMPORARILY CAP IRRIGATION LATERAL

CONSTRUCTION NOTES

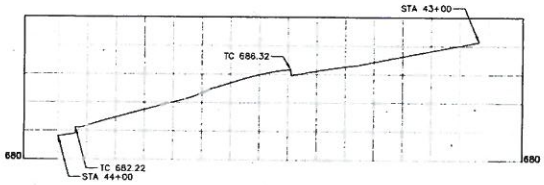
1. CONCRETE PAVEMENT PER SDG-113. MATCH EXISTING FINISH
2. LANDSCAPED MEDIAN. SEE DETAIL 1, SHEET 5
3. REPLACE SIGN PER SIGNING AND STRIPING PLAN, SHEET 6
4. CROSS GUTTER PER SDG-157
5. LANDSCAPE PER LANDSCAPE PLAN, SHEET 8
6. JOIN EXISTING ENRICHED CONCRETE PAVEMENT PER SDRSD G-10 (CONTACT JOINT)
7. 2' CONCRETE BAND. MATCH EXISTING DIMENSIONS AND HEAVY BROOM FINISH (PER EMRA NO. 71181-3)
8. JOIN PROPOSED CONCRETE BAND TO EXISTING ASPHALT PAVEMENT TO SATISFACTION OF CITY RESIDENT ENGINEER



RANCHO BERNARDO RD & VIA DEL CAMPO
IMPROVEMENT PLAN

GRAPHIC SCALE IN FEET 0 10 20 40

NORTH



RAISED MEDIAN TOP OF CURB PROFILE

SCALE: 1"=20'

CENTERLINE TABLE				
XX	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C1	Δ=14° 59' 42"	1000.0'	261.71'	RANCHO BERNARDO
C2	Δ=12° 22' 32"	1000.0'	215.99'	RANCHO BERNARDO
L1	N 26°31'19" W	–	534.00'	VIA DEL CAMPO

CURB DATA TABLE				
XX	DELTA OR BRG	RADIUS	LENGTH	CURB TYPE
C1	Δ=180° 00' 00"	4.00'	12.57'	B-1
C2	Δ=180° 00' 00"	4.00'	12.57'	B-1
L1	S 26°31'19" E	–	60.00'	B-1
L2	N 26°31'19" W	–	60.00'	B-1

PRIVATE CONTRACT

IMPROVEMENT PLAN FOR:

VIA DEL CAMPO

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 3 OF 13 SHEETS

PROJECT NO. 579881

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KRA			
AS-BUILTS				

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

1952-6299 NAD83 COORDINATES
312-1739 LAMBERT COORDINATES

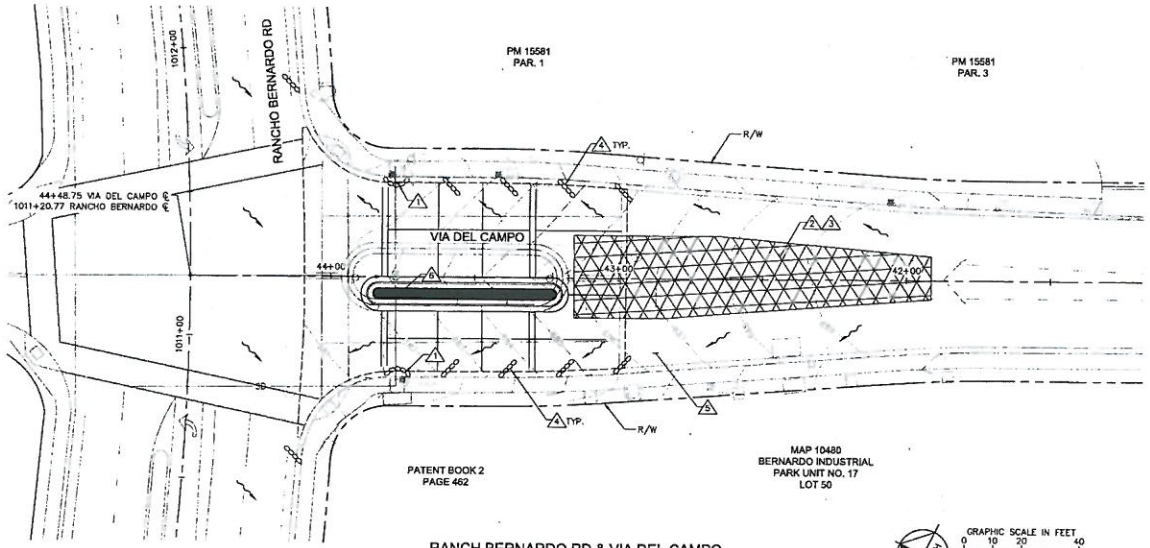
40375- 3 -D

REGISTERED PROFESSIONAL ENGINEER C86803 CIVIL STATE OF CALIFORNIA

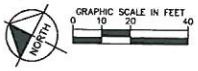
EUGENE DAWIS COWAN III R.C.E. NO. 86803

7/2/2018
DATE

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4218
Tel: (619) 234-946



RANCH BERNARDO RD & VIA DEL CAMPO
EROSION CONTROL PLAN



LEGEND

- RIGHT-OF-WAY
- GRAVEL BAGS, 2 ROWS HIGH
- SAWCUT AND JOINT LINE / LIMITS OF WORK
- CENTERLINE
- EXISTING CONTOUR
- SD — EXISTING STORM DRAIN
- STAGING AREA – CONSTRUCTION HOURS ONLY (MATERIAL STORAGE, WASTE STORAGE, SANITARY FACILITIES, VEHICLE STORAGE, VEHICLE MAINTENANCE)
- INLET PROTECTION/SAND BAGS
- DIRECTION OF FLOW
- MULCH

EROSION CONTROL NOTES

1. GRAVEL BAG INLET PROTECTION PER SC-10
2. DELIVERY MATERIAL STORAGE PER WM-1
3. CONCRETE WASTE MANAGEMENT PER WM-8
4. GRAVEL BAGS PER SC-6, SC-8
5. STREET SWEEPING & VACUUMING PER SC-7
6. MULCH, STRAW, WOODCHIPS, SOIL APPLICATION PER SS-6, SS-8

PRIVATE CONTRACT

EROSION CONTROL PLAN FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 4 OF 13 SHEETS

PROJECT NO. 579881

V.T.M.

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

1852-6269
NAD83 COORDINATES
312-1739
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

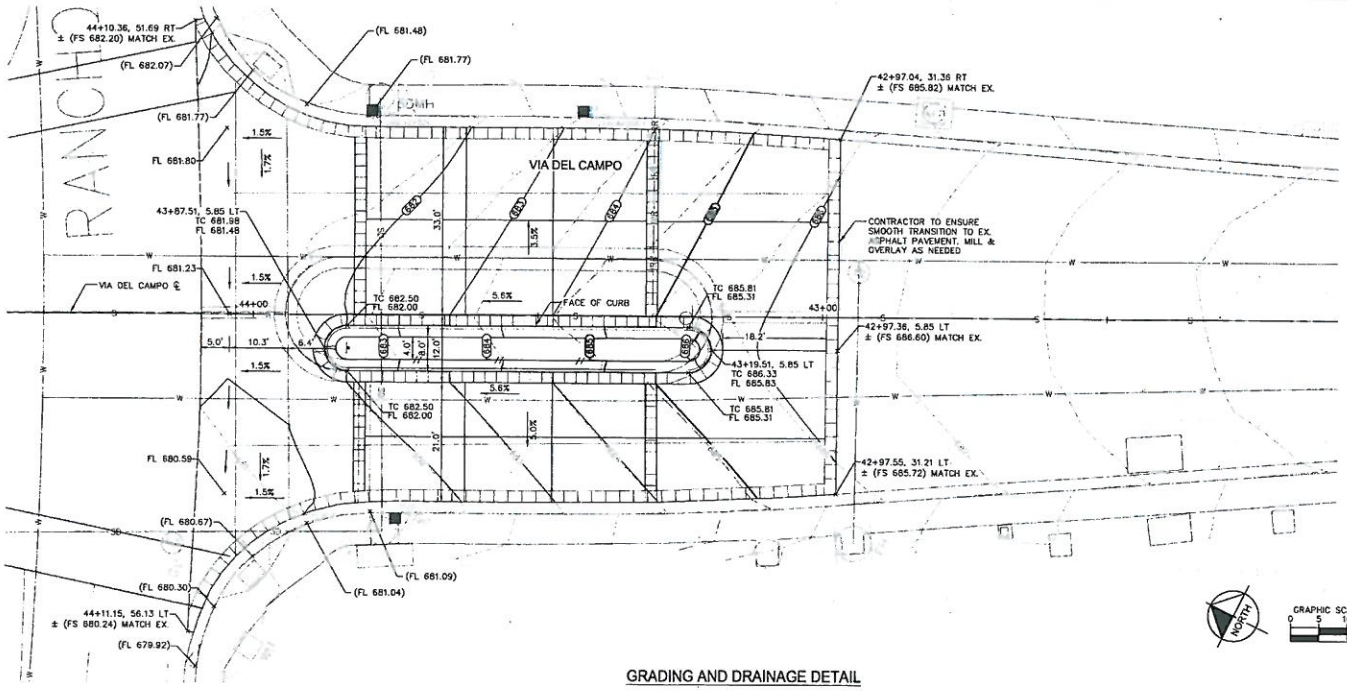
40375- 4 -D

REGISTERED PROFESSIONAL ENGINEER
EUGENE DAVIS COWAN III
C86803
CIVIL
STATE OF CALIFORNIA

Eugene T. Davis Cowan III
EUGENE DAVIS COWAN III R.C.E. NO. 86803

7/2/2018
DATE

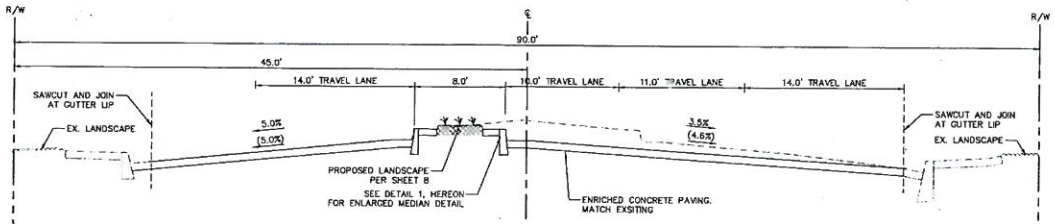
Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4216
Tel: (619) 234-9411



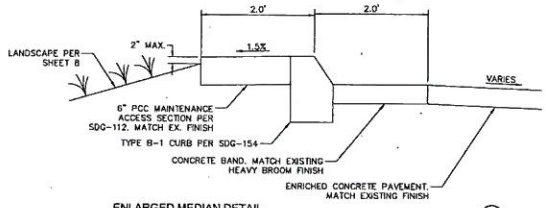
LEGEND

- SAWCUT AND JOINT LINE
- DAYLIGHT LINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- CENTERLINE
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING SEWER
- EXISTING IRRIGATION LINE

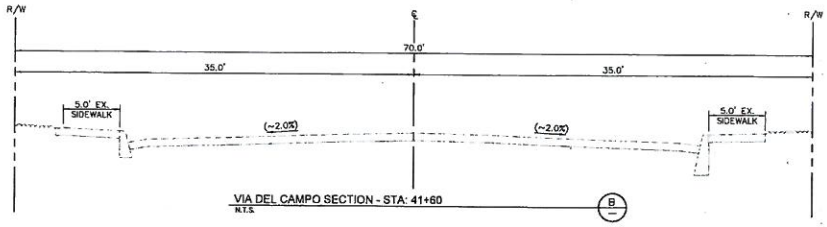
GRADING AND DRAINAGE DETAIL



VIA DEL CAMPO SECTION - STA: 43+45 (A)
N.T.S.



ENLARGED MEDIAN DETAIL (1)
N.T.S.



VIA DEL CAMPO SECTION - STA: 41+60 (B)
N.T.S.

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4218
Tel: (619) 234-9411

Eugene Davis Cohan III
EUGENE DAVIS COHAN III R.C.E. NO. 86803

7/2/2018
DATE

REGISTERED PROFESSIONAL ENGINEER C86803 CIVIL STATE OF CALIFORNIA

PRIVATE CONTRACT

DETAILS FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 5 OF 13 SHEETS

PROJECT NO. 579881

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

1952-6299
NAD83 COORDINATES
312-1739
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

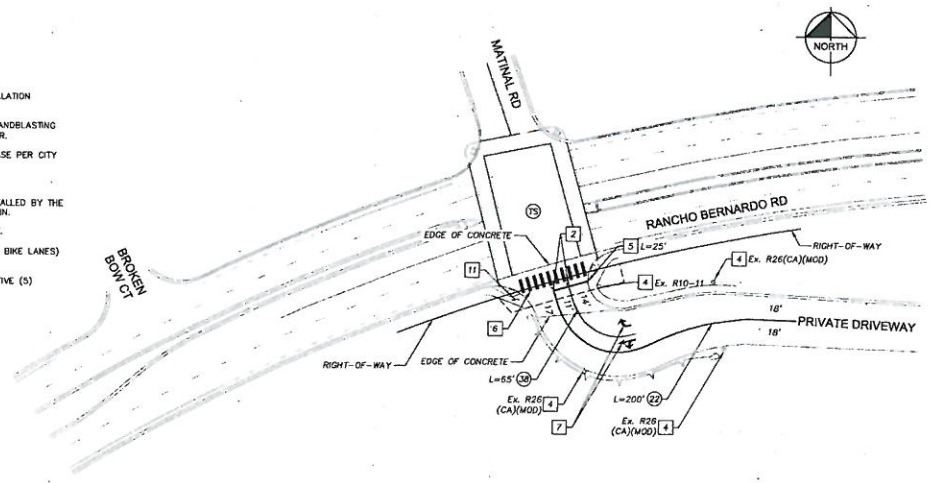
40375- 5 -D

SIGNING AND STRIPING GENERAL NOTES

1. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2015	PWPI070116-01
CITY OF SAN DIEGO STANDARD DRAWINGS	2016	PWPI070116-03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2014	PWPI092816-07

3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
4. CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, AND LEGENDS BY SANDBLASTING AND/OR GRINDING WITH THE SEAL. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER CITY OF SAN DIEGO STANDARD DRAWING M-45.
6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.
7. ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.
8. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
9. ALL LIMIT LINES, STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.
10. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

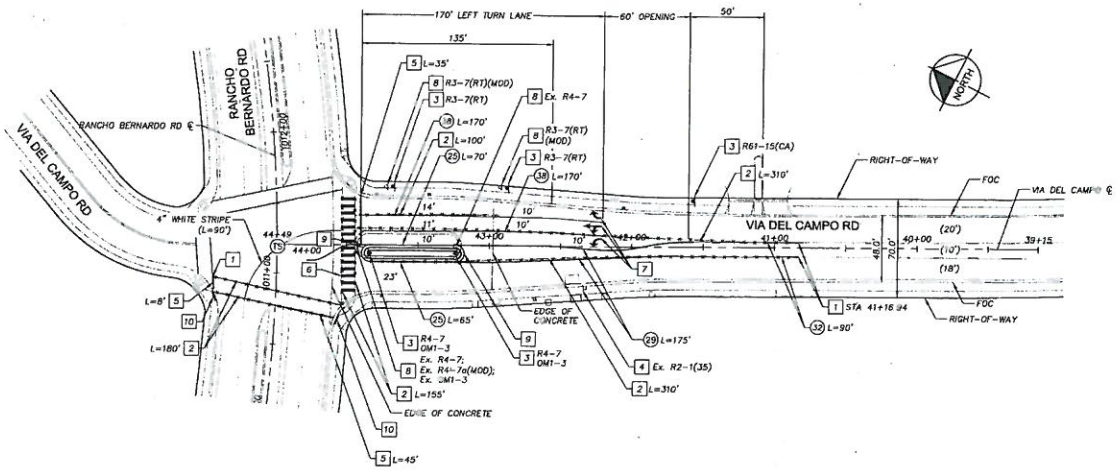


CONSTRUCTION NOTES

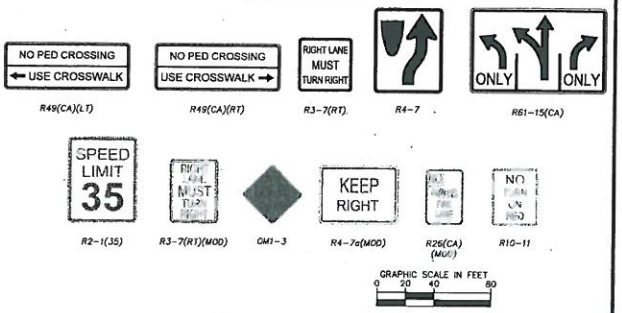
1	MATCH EXISTING STRIPING.
2	REMOVE EXISTING CONFLICTING STRIPING OR PAVEMENT MARKINGS BY SANDBLASTING.
3	FURNISH AND INSTALL NEW SIGN AND POST.
4	EXISTING SIGN TO REMAIN.
5	FURNISH AND INSTALL 12" THERMOPLASTIC LIMIT LINE.
6	INSTALL THERMOPLASTIC CONTINENTAL CROSSWALK PER CITY OF SAN DIEGO STANDARD DRAWING SDM-116.
7	INSTALL THERMOPLASTIC PAVEMENT MARKING SYMBOL.
8	REMOVE AND SALVAGE EXISTING SIGN AND POST.
9	PAINT NOSE OF CURB YELLOW.
10	FURNISH AND INSTALL PEDESTRIAN BARRICADE PER CITY OF SAN DIEGO STANDARD DRAWINGS SDE-103, R49(CA) SIGN SHALL BE INSTALLED ON BOTH SIDES OF BARRICADE.
11	PEDESTRIAN EASEMENT PER CITY OF SAN DIEGO DWG. 40674-B.

LEGEND

22	INSTALL THERMOPLASTIC NO PASSING ZONE-TWO DIRECTION PATTERN PER CA-MUTCD DETAIL 22.
25	INSTALL THERMOPLASTIC LEFT-EDGE LINE PATTERN PER CA-MUTCD DETAIL 25.
29	INSTALL THERMOPLASTIC DOUBLE LEFT-EDGE LINE WITH PAVEMENT MARKERS PER CA-MUTCD DETAIL 29.
32	INSTALL THERMOPLASTIC TWO-WAY TURN LANE LEFT-EDGE LINE WITH PAVEMENT MARKERS PER CA-MUTCD DETAIL 32.
38	INSTALL THERMOPLASTIC CHANNELIZING LINE PATTERN WITH PAVEMENT MARKERS PER CA-MUTCD DETAIL 38.
40	INSTALL THERMOPLASTIC LANE LINE EXTENSION THROUGH INTERSECTION PATTERN PER CA-MUTCD DETAIL 40.
TS	TRAFFIC SIGNAL
	NEW SIGN LOCATION (SINGLE POST)
	EXISTING SIGN LOCATION (SINGLE POST)
	TYPE I PEDESTRIAN BARRICADE PER CALTRANS STD. PLAN ES-7D. R49(CA) SIGN ON BOTH SIDES OF BARRICADE.
	TYPE IV (R) ARROW PER CALTRANS STD. PLAN A24A
	TYPE IV (L) ARROW PER CALTRANS STD. PLAN A24A
	TYPE VII (L) ARROW PER CALTRANS STD. PLAN A24A
XX'	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
— — — —	RIGHT OF WAY LINE
* * * *	SANDBLAST EXISTING STRIPING



SIGN LEGEND



PRIVATE CONTRACT

SIGNING AND STRIPING PLAN FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO RD AND MATINAL RD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 6 OF 13 SHEETS

PROJECT NO. 579881

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

V.T.M. _____
1952-6299 NAD83 COORDINATES
2-1739 LAMBERT COORDINATES

40375- 6 -D

REGISTERED PROFESSIONAL ENGINEER BRIAN L. HERTING No. 84337 CIVIL STATE OF CALIFORNIA

Brian L. Herting
BRIAN L. HERTING R.C.E. NO. 84337 — 7/2/2018 DATE

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4238
Tel: (619) 234-944

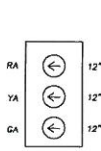
TRAFFIC SIGNAL GENERAL NOTES:

1. PULL BOXES SHALL BE NO. 6, AND CONDUIT 3" UNLESS NOTED OTHERWISE.
2. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE.
3. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE CITY OF SAN DIEGO PERMIT CENTER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
4. ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT PULL BOX AND THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT INSTALLED TO THE ADJACENT #6 PULL BOX FOR FUTURE USE.
5. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF LOOP DETECTORS, TRAFFIC STRIPING, PAVEMENT MARKINGS, PARKING REMOVAL AND TRAFFIC SIGNING (EXCEPT "G" SERIES STREET NAME SIGNS) AS SHOWN ON THESE PLANS.
   A. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN THE APPROVAL OF CITY RESIDENT ENGINEER OF THE LOOP LOCATION PRIOR TO CUTTING AND THE STRIPING, PAVEMENT MARKING, PARKING REMOVAL AND SIGN LOCATIONS PRIOR TO PAINTING AND INSTALLATION.
   B. AFTER APPROVAL OF LOCATION, THE TRAFFIC SIGNAL CONTRACTOR SHALL WAIT A MINIMUM OF FIFTEEN (15) WORKING DAYS BEFORE PERMANENTLY REMOVING ANY PARKING, SO THAT ADVANCE NOTICE TO ADJACENT PROPERTY OWNERS CAN BE MADE BY THE CITY.
   C. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL UNNECESSARY AND CONFLICTING STRIPING AND PAVEMENT MARKING.
6. THE TRAFFIC SIGNAL CONTRACTOR SHALL NOT ERECT ANY SIGNAL STANDARDS MORE THAN THREE (3) WEEKS PRIOR TO SCHEDULED TRAFFIC SIGNAL TURN ON.
7. CONTRACTOR SHALL PROVIDE ALL CABLING AND CONDUCTORS NECESSARY TO PERFORM ALL FUNCTIONS SHOWN ON THESE PLANS.
8. ALL POLES, CONDUIT, PULL BOXES, STRIPING AND LOOP DETECTOR LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE CITY OF SAN DIEGO.
9. ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEM IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED IF NECESSARY TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
10. ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
11. ALL VEHICLE SIGNAL HEADS SHALL BE 12" WITH BACKPLATES.
12. ALL SIGNAL AND PEDESTRIAN INDICATIONS SHALL BE L.E.D.
13. ALL LOOPS TO BE TYPE "E" AS SHOWN ON THIS PLAN. LOOP DETECTORS SHALL BE 6' DIAMETER WITH 10' SPACING AND POSITIONED IN CENTER OF LANE UNLESS OTHERWISE SHOWN. SEE CALIFORNIA STANDARD PLAN SHEET ES-5B. FOR DETECTOR LEGEND AND DETAILS. FRONT LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER SDG-104.
14. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS SHALL BE 16"X18" L.E.D. COUNTDOWN INDICATIONS. PEDESTRIAN PUSH BUTTONS SHALL BE 2" PER ADA REQUIREMENTS.
15. METALLIC PPB HOUSING COLOR SHALL MATCH COLOR NO. 33538 OF FED-STD-595 WHEN PPB ARE PLACED ON A TRAFFIC SIGNAL POLE.

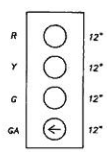
STANDARD CONSTRUCTION NOTES:

1. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL POLE, MAST ARM, AND EQUIPMENT. DELIVER TO CITY OF SAN DIEGO. ABANDON FOUNDATION.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND REPLACE WITH NEW COUNTDOWN PEDESTRIAN SIGNAL HEAD PER CITY OF SAN DIEGO STANDARDS. REPLACE RESPECTIVE PUSH BUTTONS WITH NEW 2" ADA COMPLIANT PUSH BUTTONS.
3. FURNISH AND INSTALL SIGN AS LABELED ON MAST ARM PER CALTRANS STANDARD PLAN ES-7N, DETAIL U.
4. EXISTING 120/240V TYPE III-BF METERED SERVICE PEDESTAL TO REMAIN.
5. FURNISH AND INSTALL NEW SIGNAL HEAD ON POLE PER DETAIL THIS SHEET.
6. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON PER PLAN. PLUG SIGNAL POLE TO SATISFACTION OF CITY RESIDENT ENGINEER.
7. FURNISH AND INSTALL SINGLE CHANNEL EMERGENCY VEHICLE PREEMPTION DETECTOR (E.V.P.E.) PER CITY OF SAN DIEGO REQUIREMENTS.
8. REMOVE AND SALVAGE EXISTING LUMINAIRE. FURNISH AND INSTALL NEW LUMINAIRE, SEE EQUIPMENT SCHEDULE.
9. SIGNAL EQUIPMENT THAT IS REMOVED SHALL BE DELIVERED TO THE CITY OF SAN DIEGO YARD AT 2781 CAMINITO CHOLLAS, SAN DIEGO, 92105 AFTER SIGNAL ENERGIZED. CONTRACTOR SHALL CALL IN ADVANCE AT (619) 527-8052 OR (619) 527-8053.

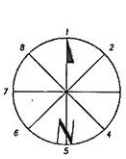
AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
CB INSTALL CONDUIT INTO EXISTING PULL BOX.
RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
RL RELOCATE EXISTING EQUIPMENT.
RS REMOVE AND SALVAGE.



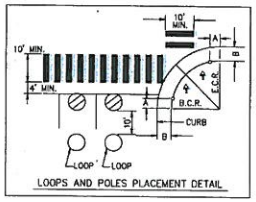
DETAIL A
NOT TO SCALE



DETAIL B
NOT TO SCALE



QUADRANT DETAIL
PEDESTRIAN PUSH BUTTON LOCATION (TOP VIEW)



LOOPS AND POLES PLACEMENT DETAIL

SIGNAL STANDARD PLACEMENT DETAIL
NOT TO SCALE

SIGN LEGEND:

R61-15(CA)

R61-7(CA)

POLE AND EQUIPMENT SCHEDULE

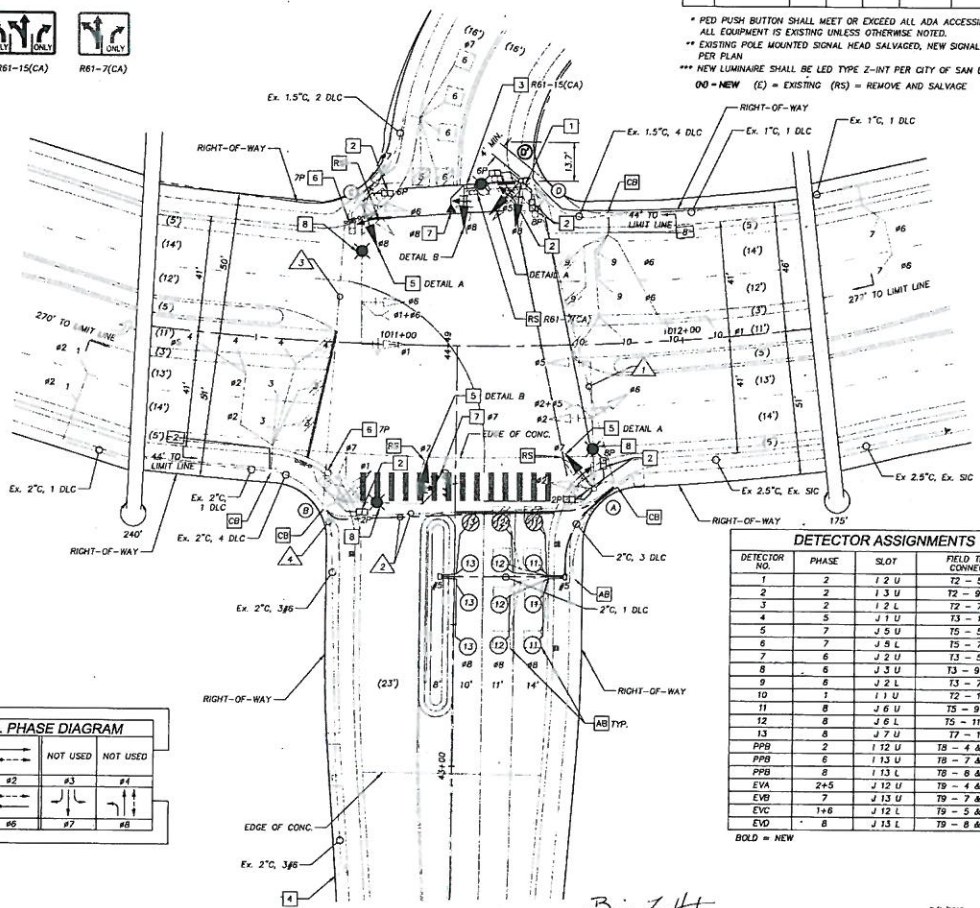
POLE	TYPE	STANDARD HGT.	MAST ARM SIG.	MAST ARM LUM.	VEH SIG MTG MAST ARM	VEH SIG MTG POLE	PED SIGNAL MTG.	PPB * Ø	PPB * QUAD.	POLE LOC A	POLE LOC B	LUM.*** Z13	RCNS LEGEND	REMARKS
A	(E) 26-4-70	(E)	(E) 45'	(E) 15'	(E) 3-MAS	(E)SV-2-TB	(RS)SP-2-T 00 SP-2-T	2 8	00 1 00 7	(E)	(E)	00 Z13**	VIA DEL CAMPO ←17100	2 2 5 8 9
B	(E) 19-1-70	(E)	(E) 30'	(E) 15'	00 MAS	(E)SV-2-TB	(RS)SP-2-T 00 SP-1-T	2 7	00 1 (RS) 7	(E)	(E)	00 Z13**	RCHO BERNARDO RD ←10900	2 5 6 7 8 9
C	(E) 26-3-70	(E)	(E) 45'	(E) 15'	(E) 2-MAS	(E)SV-3-TB	(RS)SP-2-T 00 SP-1-T	7 6	(RS) 3 00 1	(E)	(E)	00 Z13**	VIA DEL CAMPO 17000 →	2 5 6 8 9
D	(RS) 17-1-70	(E)	(RS)15'	(RS)15'	(RS) MAS	(RS)SV-2-TB	(RS)SP-2-T	6 8	(RS) 5 (RS) 3	(RS)	(RS)	(RS)	–	1 9
D'	00 17-3-100	00 30'	20'	00 15'	00 MAS	00 SV-2-TB	00 SP-2-T	6 8	00 5 00 3	10.7'	2.5'	00 Z13**	RCHO BERNARDO RD 10900 →	3 2 2 7 9

* PED PUSH BUTTON SHALL MEET OR EXCEED ALL ADA ACCESSIBILITY GUIDELINES.
ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED.
** EXISTING POLE MOUNTED SIGNAL HEAD SALVAGED, NEW SIGNAL HEAD INSTALLED IN PLACE PER PLAN
*** NEW LUMINAIRE SHALL BE LED TYPE Z-INT PER CITY OF SAN DIEGO STREET DESIGN MANUAL
00 = NEW (E) = EXISTING (RS) = REMOVE AND SALVAGE

CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN # 3" (E) 1	3" (E) 2	3" (N) 3	3" (E) 4	2-1/2" (E) 5
12 CONDUCTOR	POLE – A	–	2	–	–	2
	B	–	–	–	–	2
	C	–	–	–	2	2
	D'	2	2	–	2	2
3 CONDUCTOR	TOTAL	2	2	2	2	8
#10	LUMINAIRES	2	2	–	2	–
#8	GROUND	1	1	1	1	1
#6	SIGNAL SERVICE	–	–	–	–	–
DLC (TYPE "B")	Ø2 + Ø5	–	–	–	–	4
	Ø1 + Ø6	4	4	–	–	4
	D7	–	–	–	2(E)	2(E)
	D8	–	–	3	–	3
	TOTAL	4	7	2	1	13
SIGNAL INTERCONNECT CABLE		–	1(E)	–	–	1(E)
EVP CABLE	Ø2+Ø5	–	1(E)	–	–	1(E)
	D8	1	–	1	–	1
	Ø1+Ø6	–	–	–	1(E)	1(E)
	D7	–	–	–	–	1
	TOTAL	1	2	1	1	4
PERCENT FILL		19%	19%	17%	33%	

ALL CONDUCTORS ARE EXISTING UNLESS NOTED.
(E) = EXISTING **BOLD = NEW**



DETECTOR ASSIGNMENTS

DETECTOR NO.	PHASE	SLOT	FIELD TERMINAL CONNECTIONS
1	2	I 2 U	T2 – 5 & 6
2	2	I 3 U	T2 – 9 & 10
3	2	I 2 L	T2 – 7 & 8
4	5	J 1 U	T3 – 1 & 2
5	7	J 5 U	T5 – 5 & 6
6	7	J 5 L	T5 – 7 & 8
7	6	J 2 U	T3 – 5 & 6
8	6	J 3 U	T3 – 9 & 10
9	6	J 2 L	T3 – 7 & 8
10	1	I 1 U	T2 – 1 & 2
11	8	J 6 U	T5 – 9 & 10
12	8	J 6 L	T5 – 11 & 12
13	8	J 7 U	T7 – 1 & 2
PPB	2	I 12 U	T8 – 4 & COM 6
PPB	6	I 13 U	T8 – 7 & COM 9
PPB	8	I 13 L	T8 – 8 & COM 9
EVA	2+5	J 12 U	T9 – 4 & COM 6
EVB	7	J 13 U	T9 – 7 & COM 9
EVC	1+6	J 12 L	T9 – 5 & COM 6
EVD	8	J 13 L	T9 – 8 & COM 9

BOLD = NEW

GRAPHIC SCALE IN FEET
0 10 20 40

EX. PHASE DIAGRAM

#1	#2	#3	#4
		UNUSED	
#5	#6	#7	#8
		UNUSED	

PROP. PHASE DIAGRAM

#1	#2	#3	#4
		NOT USED	NOT USED
#5	#6	#7	#8

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4216
Tel. (619) 234-946

BRIAN L. HERTING R.C.E. NO. 84337 — 7/2/2018 DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN L. HERTING No. 84337 CIVIL STATE OF CALIFORNIA

PRIVATE CONTRACT

TRAFFIC SIGNAL PLAN FOR:
PALOMAR COMMUNITY COLLEGE DISTRICT SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 7 OF 13 SHEETS

PROJECT NO. 579881

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			

V.T.M.
1952-6299 NAD83 COORDINATES
312-1739 LAMBERT COORDINATES

AS-BUILTS
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

40375-7 -D

LANDSCAPE LEGEND

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	HEIGHT/SPREAD	CAL.	WUCOLS
	2	LYONOTHAMNUS FLORIBUNDUS ASPLENIFOLIUS / FERNLEAF CATALINA IRONWOOD	24" BOX	7-9' HT. X 2-3' SPR.	0.75" CAL.	LOW

SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	CONT.	SPACING	WUCOLS
	1	ROSA RUGOSA / RUGOSA ROSE	1 GAL.	48" O.C.	MODERATE
	12	SENECIO SERPENS / BLUE CHALKSTICKS	1 GAL.	30" O.C.	LOW

BOULDERS	QTY	MATERIAL NAME	CONT.	SPACING
	2	BOULDERS	N/A	AS SHOWN

GROUND COVERS	QTY	BOTANICAL NAME / COMMON NAME	CONT.	SPACING
	253 SF	WOOD BARK MULCH / WEED BARRIER	3" DEPTH	N/A

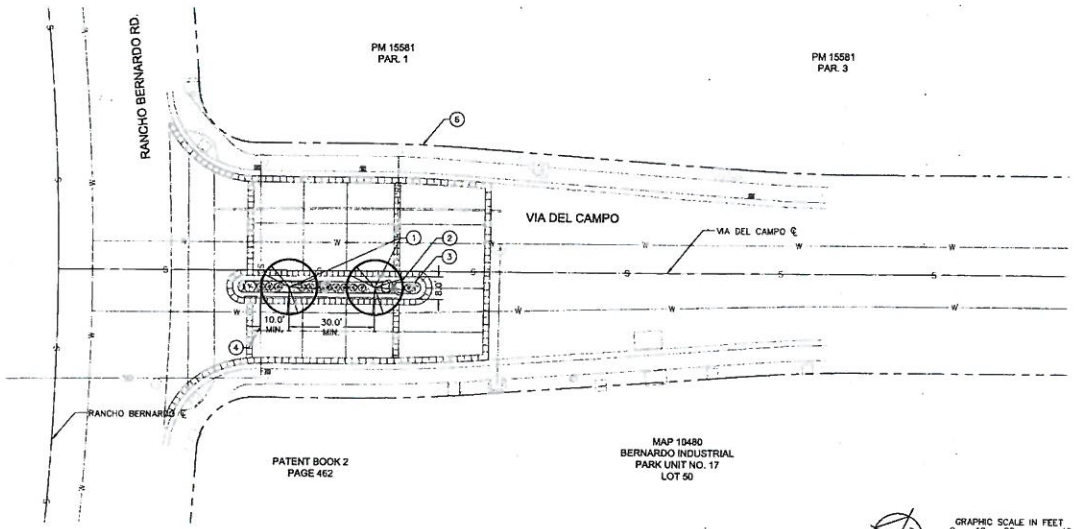
INERT MATERIAL	QTY	MATERIAL NAME
	40 LF	ROOT BARRIER

LANDSCAPE NOTES

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
2. UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.
3. ALL WORK ON THE IRRIGATION SYSTEM, INCLUDING HYDROSTATIC, COVERAGE, AND OPERATIONAL TESTS AND THE BACKFILLING AND COMPACTION OF TRENCHES SHALL BE PERFORMED PRIOR TO PLANTING OPERATIONS.
4. PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.
5. LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
6. AMENDMENTS, AS INDICATED IN THE SOILS REPORT SHOWN ON THE DRAWINGS, ARE BASED ON AGRICULTURAL SUITABILITY SOILS TESTS PERFORMED PRIOR TO GRADING AND WERE PRESENTED FOR BIDDING PURPOSES. IF NO SOILS REPORT EXISTS, CONTRACTOR SHALL PROPOSE ON AMENDMENTS AS STATED IN THE SPECIFICATIONS. CLIENT OR CONTRACTOR SHALL OBTAIN AGRICULTURAL SOILS TESTING AND RECOMMENDATIONS AFTER GRADING OPERATIONS AND PRIOR TO PLANT INSTALLATION.
7. TREES PLANTED WITHIN FIVE FEET (5') OF HARDSCAPE OR STRUCTURES SHALL BE INSTALLED WITH A ROOT BARRIER AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
8. IF, DURING PLANTING OPERATIONS THERE SEEMS TO BE MINIMAL OR NO PERCOLATION IN PLANTING PITS, CONTRACTOR SHALL CEASE PLANTING OPERATIONS AND IMMEDIATELY NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE TO DISCUSS ALTERNATIVE TO MAINTAINING POSITIVE ROOTBALL DRAINAGE MEASURES.
9. CONTRACTOR TO APPLY A MINIMUM 3" LAYER OF WOOD BARK MULCH AND WEED BARRIER, AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE, BELOW IN ALL LANDSCAPE AREAS. CONTRACTOR TO SUBMIT SAMPLES FOR APPROVAL PRIOR TO INSTALLATION. ARTIFICIALLY COLORED/STAINED MULCH IS NOT PERMITTED FOR LANDSCAPE AREAS.
10. CONTRACTOR TO PLACE BOULDER AT A MINIMUM OF 1/3 OR A MINIMUM OF 2/3 BELOW GRADE. PLACE FLAT SIDE BELOW GRADE OR NATURAL FACE ABOVE GRADE. REFER TO DETAIL ON THIS SHEET.
11. CONTRACTOR TO REMOVE ALL NURSERY STAKES, TAGS, WIRES, STRAPS, ETC.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LANDSCAPE AND IRRIGATION FOR A PERIOD OF 90 DAYS. CONTRACTOR TO SUBMIT IN WRITING TO PROJECT ENGINEER A NOTICE OF LANDSCAPE AND IRRIGATION COMPLETION AND A REQUEST TO BEGIN THE MAINTENANCE PERIOD.
13. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

MICHAEL P. MADSEN, LLA 5798



LANDSCAPE PLAN

LANDSCAPE CALLOUTS

1. FURNISH AND INSTALL TREES, PLANT TREES TO BE THIRTY (30') FEET APART (TYP)
2. FURNISH AND INSTALL BOULDERS (TYP)
3. FURNISH AND INSTALL WOOD BARK MULCH IN ALL LANDSCAPE AREAS TO PROVIDE 100% COMPLETE COVERAGE IN ALL AREAS AS SHOWN ON THE PLANS.
4. LOCATE TREES TEN (10') FEET AWAY FROM UNDERGROUND UTILITIES (TYP)
6. EXISTING ROW (TYP)

CITY OF SAN DIEGO LANDSCAPE NOTES

1. IF ANY REQUIRED LANDSCAPE (INCLUDING EXISTING OR NEW PLANTINGS, HARDSCAPE, LANDSCAPE FEATURES, ETC.) INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE CITY MANAGER WITHIN 30 DAYS OF DAMAGE OR CERTIFICATE OF OCCUPANCY.
2. ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE STANDARDS OF THE CITY-WIDE LANDSCAPE REGULATIONS AND THE CITY OF SAN DIEGO LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS AND ALL OTHER LANDSCAPE RELATED CITY AND REGIONAL STANDARDS.
3. TREES SHALL BE PLANTED NO CLOSER THAN TEN FEET (10') FROM UNDERGROUND UTILITY LINES AND FROM ABOVE GROUND UTILITY STRUCTURES.
4. TREES SHALL BE PLANTED NO CLOSER THAN TWENTY FEET (20') FROM TRAFFIC SIGNS/STOP SIGNS. TREES SHALL BE PLANTED NO CLOSER THAN TEN FEET (10') FROM DRIVEWAY, AND TWENTY FIVE FEET (25') FROM INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS).
5. MAINTENANCE: ALL REQUIRED LANDSCAPE AREAS SHALL BE MAINTAINED PER THE EXISTING EMRA NO. 71181-3 MAINTENANCE AGREEMENT. LANDSCAPE AND IRRIGATION AREAS IN THE PUBLIC RIGHT-OF-WAY SHALL BE MAINTAINED PER THE EXISTING EMRA NO. 71171-3 MAINTENANCE AGREEMENT. THE LANDSCAPE AREAS SHALL BE MAINTAINED FREE OF DEBRIS AND LITTER, AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. DISEASED OR DEAD PLANT MATERIAL SHALL BE SATISFACTORILY TREATED OR REPLACED PER THE CONDITIONS OF THE PERMIT.
6. A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. THE MINIMUM DIMENSION FOR THIS AREA SHALL BE FIVE FEET (5'), PER SDMC 142.0403(b)(5).
7. TREE SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE SIX FEET (6') ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(b)(10).
8. MULCH: ALL REQUIRED PLANTING AREAS AND ALL EXPOSED SOIL AREAS WITHOUT VEGETATION SHALL BE COVERED WITH MULCH TO A MINIMUM DEPTH OF 3 INCHES, EXCLUDING SLOPES REQUIRING REVEGETATION PER SDMC 142.0411.
9. TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN FIVE FEET (5) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL.

PRIVATE CONTRACT

MICHAEL P. MADSEN L.L.A. NO. 5798 — 7/2/2018 DATE

LICENSED LANDSCAPE ARCHITECT — 8/17/2018 — 7/12/2018 — STATE OF CALIFORNIA

LANDSCAPE PLAN FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT SOUTH EDUCATION CENTER

VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 8 OF 13 SHEETS

PROJECT NO. 579681

FOR CITY ENGINEER _____ DATE _____

V.T.M. _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

1552-6299 NAD83 COORDINATES

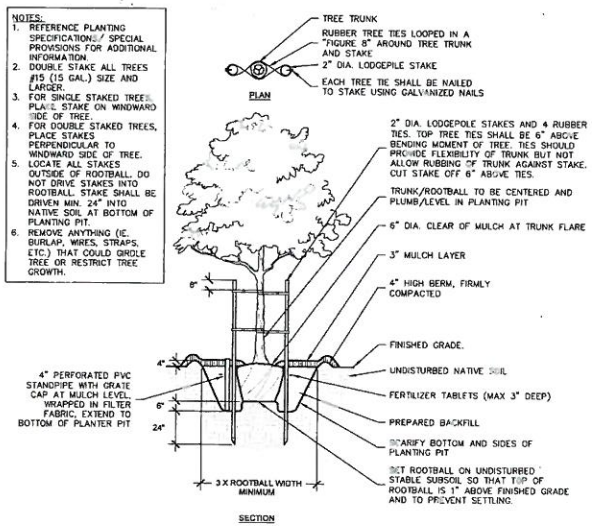
312-1739 LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40375- 8 -D

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4238
Tel: (619) 234-9481

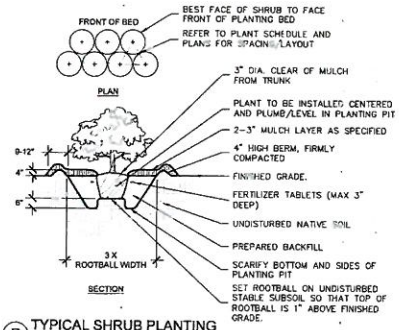
NOTES:
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. DOUBLE STAKE ALL TREES #15 (15 GAL.) SIZE AND LARGER.
3. FOR SINGLE STAKED TREES PLACE STAKE ON WINDWARD SIDE OF TREE.
4. FOR DOUBLE STAKED TREES, PLACE STAKES PERPENDICULAR TO WINDWARD SIDE OF TREE.
5. LOCATE ALL STAKES OUTSIDE OF ROOTBALL. DO NOT DRIVE STAKES INTO ROOTBALL. STAKE SHALL BE DRIVEN MIN. 24" INTO NATIVE SOIL AT BOTTOM OF PLANTING PIT.
6. REMOVE ANYTHING (IE. BURLAP, WIRES, STRAPS, ETC.) THAT COULD GIRDLE TREE OR RESTRICT TREE GROWTH.



A TYPICAL TREE PLANTING

NTS

NOTES:
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. WHEN SHRUBS MASSED WITH GROUNDCOVER BEDS, ENTIRE BED TO BE AMENDED.
3. WHEN SHRUBS ARE USED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS/HEIGHT



B TYPICAL SHRUB PLANTING

NTS

NOTES:

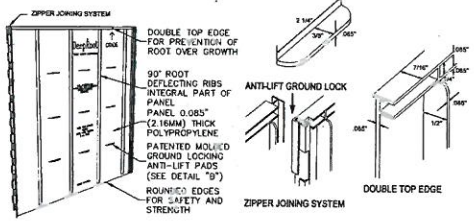
SPECIFIED TREE ROOT BARRIERS ARE A MECHANICAL BARRIER AND ROOT DEFLECTOR TO PREVENT TREE ROOTS FROM DAMAGING ADJACENT PAVING / HARDSCAPE ELEMENTS. ASSEMBLED IN 2' LONG MODULES OR FOR LINEAR APPLICATIONS DIRECTLY BESIDE AN ADJACENT HARDSCAPE AREA TO ONE SIDE OF THE TREES (LINEAR PLANTING STYLE).

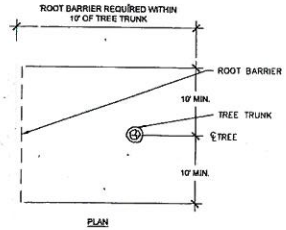
MATERIALS:

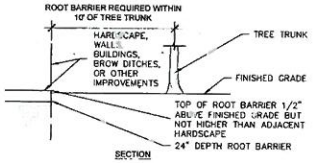
1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIERS AS SPECIFIED. THE TREE ROOT BARRIERS SHALL BE PRODUCT # UB 24-2 AS MANUFACTURED BY DEEP ROOT PARTNERS, L.P. 530 WASHINGTON STREET, SAN FRANCISCO, CA 94111 (800-458-7668), OR APPROVED EQUAL. THE BARRIER SHALL BE BLACK, INJECTION MOLDED PANELS, OF 0.085" WALL THICKNESS IN MODULES 24" LONG BY 24" DEEP, MANUFACTURED WITH A MINIMUM 50% POST CONSUMER RECYCLED POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS; RECYCLABLE.

CONSTRUCTION AND INSTALLATION:

1. THE CONTRACTOR SHALL INSTALL THE TREE ROOT BARRIERS WITH THE NUMBER OF PANELS AND IN THE MANNER SHOWN ON THE DRAWINGS. THE VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARDS TO THE ROOT BALL AND THE TOP OF THE DOUBLE EDGE SHALL BE 1/2" ABOVE GRADE. EACH OF THE REQUIRED NUMBER OF PANELS SHALL BE CONNECTED EITHER TO FORM A CIRCLE AROUND THE ROOT BALL OR BE JOINED IN A LINEAR FASHION AND PLACED ALONG THE ADJACENT HARDSCAPE.
2. EXCAVATION AND SOIL PREPARATION SHALL CONFORM TO THE DRAWINGS.



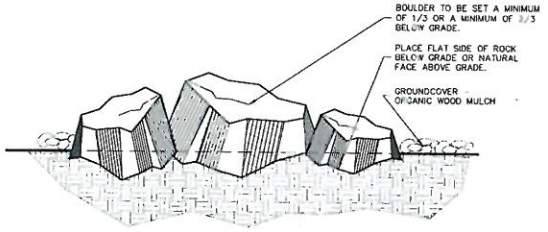




NOTES:
1. ROOT BARRIER SHALL BE INSTALLED ADJACENT TO THE IMPROVEMENT AND NOT AROUND THE ROOTBALL.
2. ROOT BARRIER REQUIRED WHEN TREE TRUNK IS WITHIN 10' OF HARDSCAPE, WALLS, BUILDINGS, BROW DITCHES, OR OTHER IMPROVEMENTS

C ROOT CONTROL BARRIER

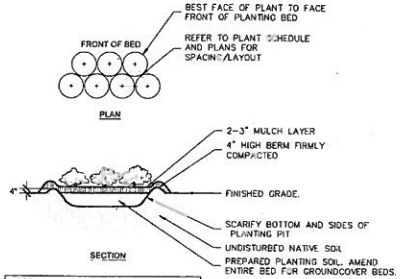
NTS



ROCK TO APPEAR THAT IT HAS SETTLED OVER TIME INTO THE LANDSCAPE. BOULDERS TO APPEAR MORE WEATHERED AND ANGULAR IN APPEARANCE, RATHER THAN ROUNDED OR FLAT.

D DECORATIVE LANDSCAPE ROCK

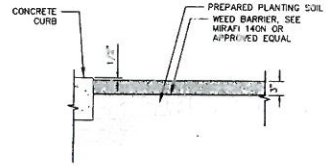
NTS



NOTE:
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

E TYPICAL GROUNDCOVER PLANTING

NTS



F WOOD BARK MULCH

NTS

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4218
Tel: (619) 234-946

Michael P. Madsen
MICHAEL P. MADSEN L.L.A. NO. 5798

7/2/2018
DATE

PRIVATE CONTRACT

LANDSCAPE DETAIL FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT SOUTH EDUCATION CENTER

VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 9 OF 93 SHEETS

PROJECT NO. 379881

V.T.M.

FOR CITY ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

1952-6299
NAD83 COORDINATES

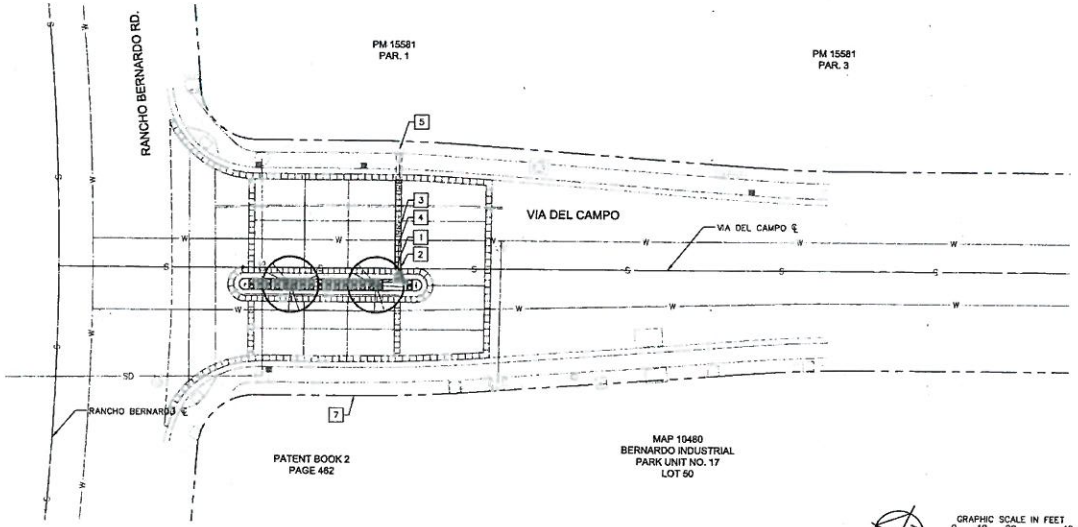
312-1739
LAMBERT COORDINATES

40375- 9 -D

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
◘	HUNTER PROS-PRS30-06-CV-MSBN MULTI-STREAM BUBBLER, 6" POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE, 50-0.50PM	34

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
————	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	130.5 L.F.
= = = = = = = =	PIPE SLEEVE: PVC SCHEDULE 40	6.3 L.F.



IRRIGATION PLAN

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

IRRIGATION NOTES

1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THIS WORK.
3. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
4. DO NOT INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
5. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
6. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THEIR WORK AND PLAN THEIR WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
7. TYING INTO EXISTING CONTROLLER. IF EXISTING CONTROLLER IS NOT CAPABLE OF EXPANDING, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT TO COORDINATE ON THE SPECIFICATION OF A NEW MODEL. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING/UPGRADING THE CONTROLLER AS DETERMINED NECESSARY.
8. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
9. REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
10. SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
11. INSTALL TWO (2) SPARE CONTROL WIRES ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
12. INSTALL GATE VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, LAWN, BUILDING OR LANDSCAPE FEATURE.
13. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
14. IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, USE POP-UP SPRINKLER MODELS WITH INTEGRAL CHECK VALVE OR A KING BROS. CV SERIES CHECK VALVE ON SHRUB RISERS IN LIEU OF SCHEDULE 80 COUPLING.
15. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE, NO OVERSPRAY PERMITTED. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
16. NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.
17. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVES (2) TIMES THE SIZE OF THE PIPE IT IS SERVING AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
18. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. CONTRACTOR TO REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK. ADDITIONALLY, CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
19. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE OF 65 PSI. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
20. PRIOR TO TRENCHING, CALL UNDERGROUND SERVICE ALERT, (1-800) 422-4133 FOR SOUTHERN CALIFORNIA.

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

MICHAEL P. MADSEN, LLA 5798

IRRIGATION CALLOUTS

1. THE PROPOSED IRRIGATION LATERAL TO EXISTING IRRIGATION LATERAL
2. CONTRACTOR TO EXTEND EXISTING IRRIGATION SLEEVE(S). CONTRACTOR TO MATCH MATERIAL AND DIAMETER SIZE IN KIND TO EXISTING IRRIGATION SLEEVE(S). CONTRACTOR TO FURNISH AND INSTALL NEW IRRIGATION SLEEVE(S) TO EXTEND EXISTING IRRIGATION SLEEVE TO BE A MINIMUM OF 18" BEYOND PROPOSED BACK OF CONCRETE MAINTENANCE STRIP.
3. EXISTING IRRIGATION SLEEVE(S), CONTRACTOR TO FIELD VERIFY
4. EXISTING IRRIGATION LATERAL LINE
5. EXISTING REMOTE CONTROL VALVE, CONTRACTOR TO FIELD VERIFY
7. EXISTING ROW (TYP)

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4238
Tel: (619) 234-9481

MICHAEL P. MADSEN L.L.A. NO. 5798

7/2/2018
DATE

PRIVATE CONTRACT

IRRIGATION PLAN FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 10 OF 13 SHEETS

PROJECT NO. 579881

V.T.M.

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

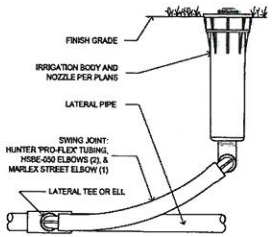
1652-6299
NAD83 COORDINATES

312-1739
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

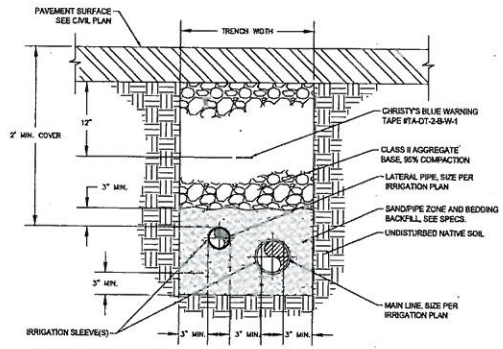
8/27/2018
7/17/2018

40375-10-D



(A) POP UP MULTI-STREAM BUBBLER

NTS



(B) TRENCH UNDER HARDSCAPE

NTS

IRRIGATION SCHEDULING INFORMATION

HYDROZONE "A"	MULTI-STREAM BUBBLER	(1) 8 MIN. RUN PER DAY, EVERY 3 DAYS
SEASONAL ADJUSTMENT GUIDELINES:	50%	DEC. 16 – MAR. 14
	75%	MAR. 15 – JUNE 14
	100%	JUNE 15 – SEPT. 14
	75%	SEPT. 15 – DEC. 14

NOTES:

1. WATERING TIMES SHALL BE BETWEEN THE HOURS OF 9 P.M. AND 6 A.M.

2. WATERING REQUIREMENTS ARE APPROXIMATE PER SEASON AND SHOULD BE ADJUSTED TO REFLECT SEASONAL FLUCTUATIONS IN AVERAGE PRECIPITATION.

3. "IRRIGATION SCHEDULING INFORMATION" IS TO BE USED FOR WATERING TIME/DURATION/FREQUENCY FOR THE FIRST THREE YEARS. HOWEVER THE SYSTEM SHOULD BE MONITORED FREQUENTLY AND ADJUSTED TO MEET THE NEEDS OF THE PLANT MATERIAL AS MATURE ROOT SYSTEMS DEVELOP.

4. ALL PLANTS TO RECEIVE APPROPRIATE ADDITIONAL WATERING DURING INSTALLATION PERIOD IN ORDER TO ESTABLISH HEALTHY AND DEEP ROOT GROWTH.

WUCOLS PLANT FACTOR:

THIS PROJECT IS LOCATED IN "WUCOLS" SOUTH COASTAL #3.
H = HIGH WATER NEEDS
M = MODERATE WATER NEEDS
L = LOW WATER NEEDS
VL = VERY LOW WATER NEEDS

STATE OF CALIFORNIA ESTIMATED WATER USE

TOTAL WATER USE IS CALCULATED BY SUMMING THE AMOUTN OF WATER ESTIMATED FOR EACH HYDROZONE. WATER USE FOR EACH HYDROZONE IS ESTIMATED WITH THE FOLLOWING FORMULA:

ESTIMATED TOTAL WATER USE (ETWU) = GAL / YEAR PER HYDROZONE

ET ADJUSTMENT FACTOR (ETAF) =
0.55 ETAF FOR RESIDENTIAL LANDSCAPE
0.45 ETAF FOR NON-RESIDENTIAL LANDSCAPE
0.8 ETAF FOR EXISTING NON-REHABILITATED LANDSCAPE
SPECIAL LANDSCAPE SHALL NOT EXCEED 1.0 ETAF

PLANT FACTOR (PF) = WATER USE CLASSIFICATION OF LANDSCAPE SPECIES

HYDROZONE AREA (HA) = (SF OF LANDSCAPE) OR (16 SF / TREE)

CONVERSION FACTOR (CONVERTS ACRE-INCHES PER ACRE PER YEAR TO GALLONS PER SQUARE FOOT PER YEAR = 0.62

IRRIGATION EFFICIENCY (IE) = 0.75 (OVERHEAD SPRAY) 0.81 (DRIP)

SPECIAL LANDSCAPE AREA (SLA) = SF OF EDIBLE PLANTS, RECREATIONAL AREAS, AREAS IRRIGATED WITH RECYCLED WATER, OR WATER FEATURS USING RECYCLED WATER

EVAPOTRANSPIRATION RATE (ETo) = QUANTITY OF WATER EVAPORATED FROM ADJ. SOIL AND TRANSPIRED BY PLANTS OVER A SPECIFIED TIME

ETWU = [(ETo) * (PF) * (HA) * (0.62)] / (IE)

MAWA = (ETo) * (0.62) (ETAF) * (SUM OF SLA & HA) + [(1-ETAF) * (SLA)]

HYDROZONE "A" (MULTI-STREAM BUBBLERS)

ETO	PF	HA	CONVERSION FACTOR	IE	SLA	ETWU (GAL/YEAR)
43.20	0.40	253.00	0.62	0.75	–	3,614.05
			ESTIMATED TOTAL WATER USE (GAL/YEAR)			**3,614.05**

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

ETO	SUM OF HA	CONVERSION FACTOR	ETAF	SUM OF SLA	MAWA(GAL/YEAR)
43.20	253.00	0.62	0.90		6,098.72
		MAXIMUM APPLIED WATER ALLOWANCE (GAL/YEAR)			**6,098.72**
		MAXIMUM APPLIED WATER ALLOWANCE PERCENT OF ESTIMATED TOTAL WATER USE			**59%**

PRIVATE CONTRACT

IRRIGATION DETAIL FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 11 OF 13 SHEETS

PROJECT NO. 579881

V.T.M.

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

1952-6299
NAD83 COORDINATES
312-1739
LAMBERT COORDINATES

40375- 11 -D

8/31/2018
7/2/2018
STATE OF CALIFORNIA

MICHAEL P. MADSEN L.L.A. NO. 5798

7/2/2018
DATE

Kimley»Horn
401 B Street - Suite 500
San Diego, Ca. - 92101-4218
Tel: (619) 234-9481

SECTION 02700
IRRIGATION SYSTEM

Part 1.00 General

1.01 SCOPE OF WORK
A. This Section shall govern the furnishing of all labor, materials and equipment for a complete operating system for lawn irrigation as specified herein and shown on the applicable drawings.

1.02 SUBMITTALS
A. Material List: Submit list of all materials for irrigation system.
B. Maintenance Items: Provide the following:
1. Two sets of sprinkler wrenches for adjusting, cleaning or disassembling each type of sprinkler.
2. Two service manuals for all equipment installed. Manuals shall be loose leaf and show drawings or exploded views of equipment and catalog numbers and current prices.
3. Operating instructions for all equipment installed.
4. One set of quick coupling keys to operate the quick coupling valves.
C. Project Record Documents: Correct daily to indicate changes from Contract Documents.
1. Horizontally at 90 degree angles, dimension the location of the following items from two permanent points of reference; i.e. curb junctions, light standards, building corners, survey hub points, or coordinates with a tolerance of 12 inch maximum.
a. Sprinkler main lines routing.
b. Connections to the existing water supply lines.
c. Sprinkler control valves.
d. Gate valves.
e. Electrical control wire path diagrammatically.
2. Vertical dimensions shall be given for mains when site conditions require installation deeper than 24 inches.

1.03 PRODUCT HANDLING
A. Exercise care in handling, loading, unloading and storing irrigation system materials to avoid damage. Store under cover.

1.04 PRODUCT CONDITIONS
A. The Contractor shall make all temporary repairs as necessary to keep the irrigation system in operating condition. This exercise shall not affect the requirements to be performed under the Contract Documents.
B. Coordinate work with that of other trades, all underground improvements, the location and planting of specimen trees and all other planting. Location of all planting requiring excavations 24 inch in diameter and larger shall be verified with Owner prior to installation of main lines.

1.05 INSPECTION
A. Verify dimensions and grades at job site.

Part 2.00 Products

2.01 MATERIALS
A. Plastic pipe: Extruded from 100% Virgin Polyvinyl Chloride (PVC).
1. Plastic pipe installed on pressure side of valves: (PVC) ASTM D1785, Schedule 40.
2. Plastic pipe installed on non-pressure side of valves: (PVC) ASTM D2241 Class 160.
B. Plastic fittings: (PVC) ASTM D1785, Type 2, IPS, Schedule 40, NSF.
C. Solvent & Cleaner: As recommended by pipe manufacturer.
D. Automatic Controller: Refer to Drawings.
E. Sprinkler Heads: Refer to Drawings.
F. Wire: Copper, UL approved direct burial wire. Minimum of 14 gauge or as specified on the drawings.
G. Remote Control Valve Boxes: Brooks #3 or Ametek VP-10. Box lids shall be marked 'R.C.V.'.
1. Valve boxes for gate valves 3" and smaller: Ametek.
2. Gate valve boxes shall be marked 'Irrigation' or 'Water'.
H. Conduit for Control Wires (if shown on drawings): (PVC) ASTM D1785, Schedule 40 in locations as indicated.
I. Miscellaneous Materials: As hereinafter specified and as necessary to complete this work and as shown on Drawings.

Part 3.00 Execution

3.01 EXCAVATION AND BACKFILLING
A. Trenching – General:
1. Dig trenches straight.
2. Provide continuous support of the pipe by the bottom of trench. Lay pipe to even grade. Bottom of trench shall be free from rocks or other sharp edge objects.
3. Trenching shall follow layout indicated.
4. Minimum cover: Pressure Lines: 24 inches.
Non-Pressure Lines: 12 inches.
5. All lines shall have a 6" minimum clearance from each other and from lines of other crafts. Do not install lines directly over another line.
6. Maintain 1" minimum between lines which cross at angles of 45 degrees to 50 degrees.
7. Exercise care in excavating, trenching and working near existing utilities.
B. Backfilling:
1. Compact to dry density equal to adjacent undisturbed soils.
2. Conform to adjacent grades without dips, sunken areas, humps or other irregularities.
3. Initial backfill on plastic lines shall be pulverized native soil no larger than 2" in diameter and free of foreign matter.
4. Restore grades and repair damage where settling occurs.
C. Routing of Piping:
1. Pressure and non-pressure piping lines are routed diagrammatically on Drawings.
2. Coordinate specimen trees and shrubs with routing of lines. Planting shall take precedence over sprinkler and piping location. Report any major deviation from routing indicated to landscape architect or owner prior to line installation.
3. Install lines in such manner as to conform with drawings without offsetting the various assemblies from the pressure supply line.

3.02 INSTALLATION
A. Water Supply: Refer to drawings.
B. Quick coupling valves: Installed at intervals so that not more than 150 feet of hose will be required to reach any plant or tree (if a pressurized main system is being used).
C. Assemblies:
1. No multiple assemblies shall be installed on pressure lines.
2. Provide each assembly with its own outlet.
D. Cathodic Protection: Provide in the piping systems where required by installing insulating couplings, flanges or unions between copper or brass pipe or tubing and steel or cast iron pipe.
E. Plastic Pipe: Install plastic pipe in accord with manufacturer's recommendations. Install sprinkler head on plastic pipe as indicated.
1. All welded joints shall be cleaned with manufacturer's cleaner prior to applying solvent.
a. Welded joints shall be given at least 15 minutes set-up curing time before moving or handling.
b. Pipe shall be partially center loaded to prevent arching and shifting under pressure.
c. No water shall be permitted in pipe until a period of at least four hours has elapsed for solvent weld setting or curing or as required by solvent manufacturer.
2. Backfilling shall be done when pipe is not in expanded condition due to heat. Cooling of pipe can be accomplished by operating the system for a short time before backfill or by backfilling in the early part of the morning before the heat of the day.
3. Curing: When the temperature is above 80 F, soluble weld joints shall be given at least 24 hours curing time before water is introduced under pressure.
F. Automatic Controller:
1. Contractor shall be responsible for making control wire and electric power connections to the automatic controller.
G. Remote Control Valves:
1. Install at sufficient depth to provide not more than 6" nor less than 4" cover from the top of the valve to finish grade.
2. Install valves in a plumb position with 24" minimum clearance from other equipment for proper maintenance.
3. All valves shall be installed in appropriate sized valve boxes with cover.
H. Wire Connections: All underground wire connections to electric remote control valves shall be made by using waterproof wire connectors as manufactured by King Technology Inc.
I. Gate Valves:
1. Line size and install where indicated and sufficient clearance from other materials for proper maintenance.
2. Equip valves, sizes 3" and smaller, with standard operating wheel for operation. Valve boxes packing shall be checked and tightened before backfill. All valves shall be 150 psi rated.
3. All valves shall be installed in appropriate sized valve boxes with cover.
J. Drip Irrigation:
1. Provide drip irrigation in all sidewalk planters, parking field islands, and other non-turf locations as a means to mitigate water and energy usage for environmental purposes.
2. Drip Irrigation must be:
a. Self-flushing
b. Pressure Compensating
c. Root Deterrent
d. Equipped with appropriate filtration device
e. Stapled down to prevent movement according to the manufacturer's guide.
K. Thrust Blocks: Install thrust blocks on all main irrigation lines 4" or larger at all changes of direction, as detailed in manufacturer's recommendations on pipe installation or as shown on the drawings.
L. Flushing of System:
1. Flush main and lateral systems to clean out all debris and sediment prior to installation of heads.
2. This does not relieve requirements of future adjustments of system or reflushing system.

3.03 ELECTRICAL
A. Be responsible for making wire connections from remote control valves to controllers. All wiring shall be in accord with applicable codes.

3.04 PRESSURE TEST
A. Test all pressure lines under hydrostatic pressure of 100 lbs. per square inch, 150 lbs. per square inch for mainline, and all non-pressure lines shall be tested under the existing static pressure and both be proven watertight.
B. Pressure shall be sustained in the lines for not less than four hours. If leaks develop, the joints shall be replaced and the test repeated until the entire system is proven watertight.
C. Perform tests prior to backfill.

3.05 ADJUST AND CLEAN
A. Installations and Operations: Make such adjustments and repairs as requested as necessary for acceptance at no additional cost to the owner.

3.06 COMPLETE AND ACCEPTANCE
A. Completion of work shall mean the full and exact compliance and conformity with provisions expressed or implied in the drawings and specifications.
B. All work under this contract shall not be finally accepted until expiration of the guarantee period.
C. The irrigation contractor shall demonstrate and fully acquaint the owner and/or owner's representative with the entire system, proving that all remote control valves are properly balanced, that all heads are properly adjusted for radius and are of coverage, and that the system is workable, clean and efficient, and that the controller has been programmed and is operational. This shall be a requirement for acceptance of the work.
D. Contractor shall upon receipt for final payment, give owner a set on CD of as-built irrigation system with all valves, tees and heads indicated as installed.

3.07 GUARANTEE AND REPLACEMENT
A. The irrigation contractor shall furnish warranties in writing certifying that the quality and workmanship of all materials and installation furnished is in accordance with these specifications and in accordance with original manufacturer's warranties. Irrigation contractor shall further see to the fulfillment of all manufacturer's warranties. Irrigation contractor shall warrant the installation workmanship for a period of one (1) year from date of completion or acceptance of the job, or any accepted portion of the job.
B. Should the irrigation contractor be notified that work or replacements are warranted under these conditions, he shall provide the required service and/or replacements promptly within three (3) days.

END OF SECTION

SECTION 02800
LANDSCAPE

Part 1.00 General

1.01 SCOPE OF WORK
A. This section covers furnishing and installing all landscape plants and compost materials covered by the drawings and these specifications. The work shall include materials, labor, equipment and services as described herein and indicated on the drawings. Also, the work shall include the maintenance of all plants and planting areas until acceptance by the Owner, and the fulfillment of all guarantee provisions as herein specified.

1.02 PLANTING LAYOUT
A. Before beginning work, the contractor shall investigate and verify, in the field, the existence and location of all underground utilities and irrigation piping, and take precautions to prevent their disturbance. It shall be the responsibility of the contractor to obtain all such information as it is made available. Plans and specifications of related work may be obtained from the owner.
B. The contractor shall locate all general reference points, take precautions to prevent their disturbance, perform the layout work, be responsible for all lines, elevations and measurements of work executed under the contract, exercise proper precaution to verify figures on drawings before laying out work and be responsible for any error resulting from failure to exercise such precaution. The contractor shall make field measurements for his own work and be responsible for its accuracy.
C. Discrepancies between conditions existing on the site and conditions indicated on the drawings shall be called to the attention of the owner before or at the time plant locations are staked out.
D. In the event of a variation between the plant list and the actual number of plants shown on the plans, the plans shall control.

1.03 HORTICULTURAL STANDARDS
A. Unless otherwise noted, plant material, including collected materials, shall be grade No. 1 or better as outlined under Grades and Standards for Nursery Plants, and shall also conform to American Standard for Nursery Stock, ANSI (American National Standards Institute, Inc.) Z60.1–1996 as approved by the American Association of Nurserymen.
B. All plant names shall conform to the names given in Standardized Plant Names, 1942 Edition, prepared by the American Joint Committee on Horticultural Nomenclature. Names of varieties not included therein shall conform generally with names accepted in the nursery trade. All plant materials shall be true to botanical, common and variety names. Botanical name shall have precedence over common name.
C. The landscape architect shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications. Such rejected material shall be removed from the site and acceptable material substituted in its place.

1.04 CERTIFICATES OF INSPECTION
A. All plant material shall be inspected by the Department of Agriculture, as required by state law. Plants of a grade less than that specified in the article titled HORTICULTURE STANDARDS will not be accepted.

Part 2.00 Non-Plant Materials

2.01 SOIL BACKFILL
A. Soil for backfilling planting areas and plant pits shall be the existing surface soil, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones, stumps, roots, trash, toxic substances, mortar, cement or any other material which may be harmful to plant growth or hinder planting operations. Poorly drained soil shall not be used.
B. The contractor shall obtain current agronomic soils report and include soil amendment recommendations on these plans.
C. Soil amendments shall be added to the soil in the amount and manner prescribed by soil analysis to obtain a pH of 5.5 to 6.5. Results from soil analysis and a list of the prescribed amendments shall be presented to the owner and verified by the landscape architect prior to being incorporated into the soil.
D. If additional soil is required; it shall be furnished by the contractor and shall be a natural, friable soil representative of productive, well-drained soils in the vicinity. It shall be obtained from well drained areas which have never been stripped before ± and shall be free of admixture of subsoil and foreign matter, stones, toxic substances and any material or substance that may be harmful to plant growth.
E. The contractor shall provide the following information on imported topsoil:
1. Specific location from which topsoil will be (or was) stripped.
2. Present owner of that property.
3. Approximate amount of topsoil available.
4. Test results showing topsoil composition and analysis.
F. Soil test shall be performed by a qualified soils laboratory in accordance with "Methods of Soils Analysis – Agronomy 9" as published by the American Society of Agronomy, and shall be performed at the Contractor's expenses.
G. Planting soil backfill for raised architectural planters, if applicable, shall consist of 40% potting soil, 40% coarse washed builders sand and 20% horticultural perlite.
H. Areas designated to be planted with flowering annuals, if applicable, shall be excavated to a depth of 8" and backfilled with a mixture consisting of 40% peat, 40% O.D.T. (coarse) sand, 10% pine bark (decomposed) and 10% cypress chips.
I. Planting soil backfill for tree wells, if applicable, shall be 2/3 approved topsoil and 1/3 coarse washed builder's sand.

2.02 FERTILIZER
A. Commercial fertilizer shall be 14–14–14 formulation of Osmocote brand, 3–4 month release of which 60% of the nitrogen is in urea-formaldehyde form and shall conform to the applicable state fertilizer laws. Fertilizer shall be uniform in composition, dry and free flowing.

2.03 PRE-EMERGENCE WEED CONTROL
A. Weed control shall be Ronstar 2G as manufactured by Rhodia, Inc., Monmouth Junction, New Jersey 08852 or Princep (Simazine) as manufactured by Geigy Agricultural Chemicals, Ardsley, New York 10502, or an approved equal.

2.04 WATER
A. Water will be available for use on site during the landscape installation at no cost to the contractor. Care shall be exercised to assure that water is kept free of harmful chemicals, acids, alkalis, or any substance, which might be harmful to plant growth.

2.05 ANTIDESICCANT
A. Antidesiccant shall be an emulsion type; film-forming agent designed to permit transpiration, but retard excessive loss of moisture from plants, such as Dowax by Dow Chemical Co., or Wilt-Pruf by Nursery Specialty Products, Inc., or an acceptable equal. The antidesiccant shall be delivered in the manufacturer's fully certified containers and shall be mixed in accordance with manufacturer's instructions.

2.06 BORICIDE
A. Boricide shall be Lindane as manufactured by Platt, or an approved equal.

2.07 MULCH
A. Organic wood bark mulch shall be natural in color, sourced from one supplier, and weed free. See plan for size, and limits of mulch. Install a weed barrier by MIRAFI MSCAPE, or approved equal product under the mulch, and submit a mulch sample to owner.

2.08 GUYING AND STAKING MATERIAL
A. Stakes for supporting trees shall be as detailed on the drawings. Wire for fastening trees to duckbill and turnbuckle shall be galvanized aircraft grade guying cable as specified in the detail. Wires in contact with trees shall be encased in two-ply reinforced garden hose. Material for wrapping tree trunks shall be burlap, heavy crepe paper, or other acceptable material in strips 6 to 10 inches wide.

2.09 DRAINAGE GRAVEL
A. Where indicated on the drawings, or where soil conditions deem it necessary, the contractor shall install gravel subdrains beneath trees and/or planting areas to aid in soil drainage and percolation. The subdrain shall be constructed as detailed on the drawings, or as directed by the landscape architect. Drainage gravel shall consist of washed, clean gravel 3/4 inch to 2 inches in size.

2.10 SOIL SEPARATION MATS
A. Soil separation mats, if indicated on the drawings, shall be Bidim (gray felt) as manufactured by Monsanto Co., 800 North Lindbergh Road, St. Louis MO 63166 or approved equal. Mats shall be installed as indicated on the drawings, and edges overlapped a minimum of 4 inches. Care shall be taken to prevent tearing or excessive crushing during the installation process.

Part 3.00 Plant Material

3.01 QUALITY OF PLANT MATERIAL
A. During inspection, as set forth hereinafter, all plant material will be judged, and rejections shall be based upon these standards. All plants shall comply with federal and state law requiring inspection for plant diseases and infestations. Inspection certificates required by law shall be made available to the owner or owner's representative at his/her request.
B. In determining the quality of plant material, the following elements will be valued:
1. Root condition.
2. Plant size (above ground).
3. Insect and disease free condition.
4. General appearance (color, shape, pruning).
A deficiency in one or more of these areas will be sufficient reason to reject selectively or by lot.
C. The landscape architect shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications. Such rejected material shall be removed from the site and acceptable material substituted in its place.

3.02 SIZE AND MEASUREMENTS
A. Plants shall be measured when branches are in their normal position. Heights and spread dimensions specified refer to the main body of the plant and not to extreme branch tip to tip. The measurements specified are the minimum size acceptable and where pruning is required, these are measurements after pruning. When sizes are indicated as a range, the plant shall have the proper proportion as outlined in Department of Agriculture, Grades and Standards for Nursery Plants Part 1 and 11. Caliper of trees shall be taken 36 inches above the ground level and shall be the determining measurement for trees.
B. Plants, which have been headed back to conform to the size specified, will not be acceptable. Plants larger than specified may be used if approved by the owner; however, the use of such plants shall not increase the contract price.

3.03 LABEL
A. Plant materials shall have durable, legible labels stating, in weather resistant ink, the correct botanical and common names and size as indicated in the Plant List. Each plant, or sufficient representative samples of each delivered shipment, shall have labels securely attached in a fashion that will not interfere with normal plant growth. Plant materials which have (or will have) a seasonal bloom shall be tagged with labels indicating the specific variety of that species botanical and common name.

3.04 COLLECTED PLANTS
A. All plant material shall be nursery grown. Collected plants shall have been grown under climatic conditions similar to those in the locality of the project. All collected plants shall meet the requirements as specified and shall meet all specified grades and standards, unless otherwise qualified in the Plant List or these specifications. Root balls shall be increased in size one third greater than those of nursery grown plants.

3.05 CONTAINERIZED PLANTS
A. All container grown plants shall be well rooted and established in the container in which they are delivered to the site. The plants shall have been in that container sufficiently long for the fibrous roots to hold the soil together when the plant is removed from the container. Container grown plants found to be root-bound during planting will not be acceptable. Containerized trees have a tendency to dry out quickly. The contractor shall be responsible for hand watering the trees at time of delivery through the time of final acceptance at a rate consistent with the nursery watering schedule to assure that the tree does not go into shock.

3.06 SPECIMEN PLANTS
A. After receiving the Notice to Proceed, the contractor shall locate all plants specified as specimen. The contractor shall notify the owner so they may agree on a time to mutually inspect the selected plants. The owner will inspect and tag those plants, which are acceptable for use. Expenses incurred by the owner for any subsequent inspection of specimen plants, at any time, in addition to the mutually agreed time shall be the responsibility of the contractor.

3.07 SUBSTITUTIONS
A. The use of materials differing in kind, quality or size from those specified will be allowed only after the owner is convinced that all means of obtaining the specified materials have been exhausted.
B. Where it is indicated that the contractor may furnish or use a substitute that is equal to the material or equipment specified and if the contractor is to furnish or use a proposed substitute, he shall, after the award of the contract, make written application to the owner for acceptance of such a substitute. The substituted product or method shall be equal or superior in all respects to the specified product or method, shall perform adequately the duties imposed by the general design, shall be compatible with all other elements of the job, and shall be sufficient to complete the job. The substitution shall not add cost to the contract. Should it be necessary to accept a substitute of a quality less than specified, the unit price shall be used to adjust the contract price downward accordingly. No substitution shall be ordered or installed without the written permission of the owner and governing municipality.

Part 4.00 Delivery, Storage and Handling

4.01 PLANT MATERIAL
A. The contractor shall exercise care in handling, loading and unloading, storage and transporting all plant material and allied materials to prevent damage. The contractor shall assume full responsibility for protection and safekeeping of products stored on the job.
B. The contractor shall dig and prepare plant material for shipment in a manner that will not damage roots, branches, shape and future development after planting.
C. Trees indicated on the plans where size, soil conditions and distance of transport to the site would warrant, shall be wireballed. Balsam wired baskets manufactured specifically for use in tree handling may be used.
D. The contractor shall handle all plants so that roots and branches are protected at all times from drying out, heating and from other injury. All plants shall be handled by the ball or container.
E. Before moving plants from the nursery or storage area to the site; they shall be thoroughly sprayed with a solution of antidesiccant. Antidesiccant shall be applied to all collected pines, oaks and myrtles. Two weeks after planting or as specified by the product manufacturer; the material shall be sprayed again with the antidesiccant. The antidesiccant shall be applied using power spray to provide an adequate film over trunks, branches, stems, twigs and foliage.
F. When transporting plants to and at the site, the contractor shall make provisions to protect plants from wind damage by avoiding high-speed highways, transporting in enclosed or partially enclosed vehicles, or covering the plants with burlap or other suitable material. Plants severely damaged by wind will be rejected.
G. Any plant with signs of insects, their eggs or larvae or disease will be rejected and shall be removed from the project site.
H. Only the nursery stock intended for planting on a particular day shall be delivered and stored on the site during the day unless otherwise acceptable to the owner. All plants shall be stored in one location as designated by the owner, protected from wind and kept moist. The roots of all plants that cannot be planted immediately in soil shall be covered with mulch and other suitable material. No plants shall be taken from the temporary storage area for planting on the project until after the tree pits or holes for the plants in the section to be planted have been properly excavated and prepared ready to receive the trees and shrubs.
I. Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or other bark slippage by means of burlap, wood battens or other acceptable method.

4.02 NONPLANT MATERIAL
A. Fertilizer shall be delivered to the site in original, unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark and conformance to state law. In lieu of containers and provided that it is to be applied at the time of delivery, fertilizer may be furnished in bulk and a certificate indicating the above information shall accompany each delivery.
B. Pesticide and herbicide materials shall be delivered to the site in the original, unopened containers. Containers that do not have a legible label that identifies the Environmental Protection Agency registration number and the manufacturer's registered uses will be rejected.
C. Storage of materials shall be in the area designated for use by the owner. All materials shall be kept in dry storage and away from contaminants.

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4238
Tel: (619) 234-9411

MICHAEL P. MADSEN L.L.A. NO. 5398
7/2/2018
DATE

PRIVATE CONTRACT

SPECIFICATIONS FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 12 OF 13 SHEETS

PROJECT NO. 579881

FOR CITY ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

DATE STARTED
DATE COMPLETED
CONTRACTOR
INSPECTOR

V.T.M.
1652-6299
NAD83 COORDINATES
312-1739
LAMBERT COORDINATES

40375-12-D

Part 5.00 Installation

5.01 PREPARATION BEFORE PLANTING

A. The contractor shall verify that all final grades have been established prior to beginning planting operations. All unsatisfactory grading shall be reported to the owner, and the contractor shall not proceed with this work until the unsatisfactory conditions have been corrected. When conditions detrimental to plant growth are encountered, such as rubble, fill or adverse drainage conditions, the contractor shall notify the owner for directions.

B. Should undesirable existing vegetation be present on the site at the time of installation, the contractor shall prepare the site for planting by use of chemicals, when used as recommended by the manufacturer, and/or mechanical means acceptable to the owner. Care shall be exercised to avoid any misuse of chemicals, which would create detrimental residual conditions. Care must also be used not to alter final grades, which have been established or cause damage to previously established turf areas.

5.02 SITE PREARATION

A. If so called for by the owner, all plant locations and the areas of all planting beds shall be staked out on the ground, for acceptance by the owner, before planting operations begin. The contractor shall stake the location of the center of each tree and paint the outline of each shrub and groundcover bed. The stakes shall be oriented in a vertical manner so that they can be viewed and read from one direction. The contractor shall give the owner notice 24 hours prior to the completion staking described herein.

B. The contractor shall verify the location of underground utilities, and irrigation heads and valves, and provide markers or other suitable protection, where necessary, to prevent damage.

5.03 EVCAVATION OF PLANTING AREAS

A. No tree or shrub pit shall be dug or prepared until their location is acceptable to the owner. Reasonable care shall be exercised to have pits dug and soil prepared prior to moving plants to respective locations for planting to ensure that they will not be unnecessarily exposed to drying elements or to physical damage.

B. Circular pits with vertical sides shall be excavated for all plants. The depth of all plant pits shall be enough to accommodate the ball or roots and the prepared soil in the bottom of the pit. Diameter of pits for trees shall be at least 1 foot greater than the diameter of the ball.

C. Plant beds and pits shall be tested for proper drainage by filling with water twice succession. Conditions permitting the retention of more than 6 inches of water in 1 hour shall be brought to the attention of the owner. A written proposal and cost estimate for correction of such conditions shall be submitted to the owner for acceptance, before proceeding with the work.

D. All tree pits curbed planting islands, tree wells, or in areas, in which the soil has been compacted to an undesirable density, shall be excavated to a depth at least two feet greater than the measured depth and diameter of the ball. The minimum depth and diameter of excavation shall be four feet. Soil backfill in areas of densely compacted soil must meet specification 201-C unsuitable soil to an approved location.

E. In shrub and groundcover beds where soils have been compacted to a density, which is detrimental to plant growth, the contractor shall loosen soils to a depth of 18" minimum to allow root penetration beyond the planting pit.

F. If acceptable for use, existing topsoil in shrub and groundcover beds shall be treated with the specified soil amendments, at rates determined by soil tests. Amendments shall be incorporated into the soil to a depth of 12 inches. Where soil is not acceptable as determined by soil tests, the soil in the entire area shall be removed to a depth of 8 inches and replaced with the specified planting soil.

5.04 PLANTING

A. All plants, except as otherwise specified, shall be centered in their pits, faced for best effect and set plumb for backfilling.

B. All synthetic strings, straps, and wire cages shall be removed from the top of third of the root ball. Synthetic burlap shall be removed completely.

C. Plants shall be removed from cans by cutting two sides of a container with an acceptable can cutter. Sides shall not be cut with a spade. Sides of knockout cans shall not be cut. Plastic containers with slanted sides shall not require cutting. Plants shall be removed from the container carefully, without injury or damage to the plant and root system.

D. Bottom of plant boxes shall be removed before planting. Sides of the box shall be removed, without damage to the root ball, after positioning the plant and partially backfilling around it. The contractor shall hand water-containerized trees from the time of delivery until the time of the final acceptance at a rate consistent with the nursery conditions from which the trees were obtained. Trees, which go into shock due to insufficient water, may be rejected.

E. Plants shall be set in the center of the pits and shall be plumb and straight and at such a level that after settlement the root crown will be level with the surrounding grade.

F. Plant holes shall be backfilled with the specified planting mixture placed in layers around the roots or ball. Each layer shall be carefully tamped in place in manner to avoid injury to the roots or ball or disturbing the position of the plant. When approximately two thirds of the plant hole has been backfilled, the hole shall be filled with water and the soil allowed to settle around the roots. Balled and burlapped plants shall have the burlap cut away or folded back from the top of the ball before applying water. After the water has been absorbed, the plant hole shall be filled and tamped lightly to grade. Any subsequent settlement shall be brought to grade.

G. Immediately after each tree pit is backfilled, a shallow basin slightly larger than the pit shall be formed with a ridge of topsoil to facilitate watering. This soil saucer shall be formed in a circle and tamped around each tree so that the saucer will retain water. Where curbing occurs around plant pits, the saucer shall be omitted.

H. The contractor shall include adding a water retentive additive Terra-Sorb AG for all shrubs, groundcovers, annuals and trees at the manufacturers suggested rates.

DFPA Plyform, Exterior B-B, edge sealed.

1. Plastic Fiber:
   Special forms of molded fiber, if required.
2. Cardboard:
   Beam void forms "VOIDCO" or equal, as required under pier supported grade beams.
3. Metal:
   Commercial standard, or as noted on drawings.

5.05 FERTILIZING

A. Each tree and shrub shall be fertilized by placing the manufacturer's recommended amount around the base of the ball before backfilling.

5.06 STAKING, GUYING AND WRAPPING

A. Staking or guying and wrapping of trees shall be done immediately after they are planted. Each plant shall stand plumb after staking or guying has been completed. It shall be the Contractor's responsibility to ensure that all trees are plumb and secure after planting. Staking of trees of a 10 foot height or less shall be at the discretion of the Owner. All other trees shall be staked.

5.07 MULCHING

A. Immediately after planting operations are completed, all tree and shrub saucers, and shrub and groundcover beds shall be covered with a 1 inch layer of decomposed granite mulch. 3 inch depth shall be provided throughout all landscape beds as indicated on the drawings. Limits of the mulch shall be as indicated on the drawings.

5.08 PRUNING

A. Each tree and shrub shall be pruned in accordance with standard horticultural practice to preserve the natural character of the plant and in the manner filling its use in the landscape design. Pruning shall be done with clean, sharp tools and as indicated on the drawings.

B. Approximately one third of the growth of large deciduous trees (those with 2 inch caliper or larger) shall be pruned by removal of superfluous branches. Main leaders of trees shall not be cut back. Branches shall be thinned out and not merely cut back. Long side branches may be shortened. Shrubbery with extremely heavy tops shall have one fourth to one third of the weaker growth removed by thinning.

5.09 CLEANUP

A. During the course of planting, excess and waste materials shall be continuously and promptly removed daily, lawns kept clear, and all reasonable precautions taken to avoid damage to existing structures, plants and grass. After completion of the work, the entire site shall be cleared of excess soils, waste material, debris and all objects that may hinder maintenance and affect the visual appearance of the site. The Contractor shall clean all roads and walks of dirt film and soil clods. The Contractor shall also pressure clean and broom sweep all asphalt pavement prior to the final lift of asphalt to be laid.

5.10 DISTURBED AREAS

A. All areas outside of the limits of work that are disturbed by the Contractor's construction activities shall be repaired and replanted to its original condition.

Part 6.00 Guarantees

6.01 GUARANTEED PROVING PERIOD

A. There shall be a guarantee period of 1 year for trees and specimen material and 1 year for shrubs. This guarantee period shall start at the final acceptance date. Contractor shall replace any and all plant material, which die during this guarantee proving period. Replacement of plants necessary during the guarantee period shall be the responsibility of the Contractor, except for possible replacements of plants resulting from removal, vandalism, acts of neglect on the part of others, or acts of God. All replacement material shall have the same guarantee time (1 year from installation of replacement for trees and specimen material and 1 year for shrubs).

B. Planting maintenance shall include all necessary watering, cultivation, weeding, pruning and spraying, wrapping and mulching, straightening of plants which lean or sag and which develop more than a normal amount of settlement such adjustments to include excavating around and leveling or raising the ball when so directed and all other incidental work necessary for proper maintenance as directed by the Owner until substantial completion and written release.

C. Transplanted material (if applicable) shall not be guaranteed, however, good horticultural practices should be used before, during and after the material is transplanted. Good horticultural practices should include but not be limited to, all necessary watering, pruning and spraying, wrapping and mulching, fertilizing, mowing, maintaining the same orientation and grade level from the original location, and all other incidental work necessary for proper transplanting.

6.02 FINAL INSPECTION AND ACCEPTANCE

A. The Contractor shall notify the Owner in writing when the work has been completed in accordance with this Contract and request an inspection. The Owner will make the inspection of the work and report findings as to acceptability and completeness. Any work remaining to be done shall be subject to reinspection before final acceptance. The Contractor will be notified in writing by the Owner of the final acceptance of the work.

6.03 CONTRACTOR'S RESPONSIBILITY AFTER ACCEPTANCE

A. The Owner may elect to assume maintenance of all work, at the time of acceptance, or may elect to contract for maintenance by others for a specified period. Should maintenance after final acceptance be the responsibility of those other than the Contractor, the Contractor shall monitor all work for which he is responsible by guarantee, to assure that maintenance being performed will not jeopardize the condition and quality of the work and materials guaranteed by the Contractor. Any inadequate or damaging maintenance practices shall be reported immediately in writing to the Owner so that appropriate measures may be taken to correct the condition. Failure to so notify the Owner will invalidate any later claim of negligence or malpractice in maintenance.

6.04 ACCEPTANCE AND REPLACEMENT OF PLANT MATERIAL

A. At the expiration of the proving period, an Inspection of the plantings will be made by the Owner. Only those plants that are alive and normally healthy will be accepted. Unaccepted material shall be removed and replaced by the Contractor at his own expense, during the next planting season. Material and method of replacement planting shall be the same as specified for the original planting unless otherwise directed. The Contractor shall continue to make replacements until a plant shows vigorous and healthy growth for a period of 1 year from the date of acceptance by the Owner. All such replacements will be inspected for acceptance at the end of the proving period by the Owner.

6.05 REQUIRED MAINTENANCE

A. Landscape contractor shall be responsible for the maintenance and upkeep for 90 days past the final inspection. At that point contact the general manager of the store and determine if the landscape contractor will remain on. If yes, contractor will be responsible for the maintenance and warrantee of all landscaping for one full year. If no, the landscape contractor is to walk the site with the general manager, manager, the facilities manager and the new landscaper and they shall agree that all planting is in good shape prior to the new landscaper taking over.

END OF SECTION

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4238
Tel: (619) 234-9411

MICHAEL P. MADSEN L.L.A. NO. 5798

7/2/2018
DATE

PRIVATE CONTRACT

SPECIFICATIONS FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO & RANCHO BERNARDO ROAD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 13 OF 13 SHEETS

PROJECT NO. 579881

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

V.T.M.

1952-6299
NAD83 COORDINATES

312-1739
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

40375-13-D

TRAFFIC CONTROL NOTES

1. VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES AND WORK HOURS ARE APPROVED. THE CONTRACTOR SHALL SUBMIT TWO (2) REDUCED COPIES OF TRAFFIC CONTROL PLANS (11"X17") TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.
2. CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY CONSTRUCTION WORK AFFECTING TRAFFIC SIGNALS.
3. STANDARDS: THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2015	PWP1070116-01
CITY OF SAN DIEGO STANDARD DRAWINGS	2016	PWP1070116-03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2014	PWP1092816-07

4. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL AFFECTING THE AGENCIES LISTED BELOW:

FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
POLICE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(619) 531-2000
ENVIRONMENTAL SERVICES	(REFUSE COLLECTION)	(858) 492-5060
STREET DIVISION	(TRAFFIC SIGNALS)	(619) 527-7500
METROPOLITAN TRANSIT SYSTEM (MTS)	(BUS STOPS)	(619) 238-0100 EXT. 6451
METROPOLITAN TRANSIT SYSTEM (MTS)	(TAXI ZONES)	(619) 215-2644
METROPOLITAN TRANSIT SYSTEM (MTS)	(TROLLEY LINES)	(619) 595-4900
UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800) 422-4133
U.S. NAVY	(32ND ST NAVAL STATION)	(619) 556-1319
SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY		(619) 400-2880

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

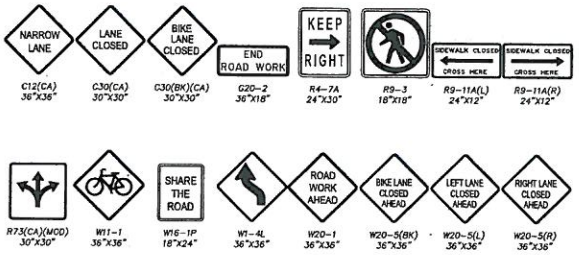
THE CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGEMENT & FIELD SERVICES AT (858) 627-3200 AND ARRANGE FOR INSPECTION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK INVOLVING NIGHTTIME OR WEEKEND HOURS.

5. POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS. PARKING METERS SHALL BE BAGGED WHERE APPLICABLE.
6. EXCAVATIONS: EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS, ALL TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORKDAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS IN THE RIGHT-OF-WAY EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS.
7. COVERED PEDESTRIAN WALKWAY: THE CONTRACTOR SHALL CONTACT CITY RESIDENT ENGINEER AT (619) 627-3200 FOR INSPECTION OF ANY COVERED PEDESTRIAN WALKWAY DURING CONSTRUCTION OF SUCH WALKWAY.
8. RESTORATION OF ROADWAY: THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY NOT DESIGNATED FOR PERMANENT REMOVAL (TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) WHICH ARE DAMAGED OR REMOVED AS A RESULT OF OPERATIONS. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.
9. PROVISION OF TEMPORARY TRAFFIC SIGNAL DETECTION: THE CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION ACTIVITIES FOR A PERIOD OF FIVE (5) OR MORE DAYS, SATISFACTORY TO THE CITY ENGINEER. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION, SATISFACTORY TO THE CITY ENGINEER.
10. CHANGE IN WORK: THE CITY ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL BE DOCUMENTED AND SUPERSEDE THESE PLANS.
11. THE CONTRACTOR SHALL SUBMIT A TRUCK HAUL ROUTE PLAN (11"X17") FOR APPROVAL PRIOR TO STARTING EXPORT OR IMPORT OF MATERIAL. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, ENGINEERING DIVISION, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO (619) 446-5150. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.

STREET DATA TABLE

STREET NAME	BOUNDARIES	STREET CLASSIFICATION	ADT VOLUMES	STREET WIDTHS	POSTED SPEED (MPH)	85th %	DESIGN SPEED (MPH)
RANCHO BERNARDO RD	BLACK MOUNTAIN RD - SD 015	MAJOR ARTERIAL	25,100	80'	50	54	55
VIA DEL CAMPO RD	W BERNARDO DR - RANCHO BERNARDO RD	COLLECTOR	8,800	48' TO 70'	35	35	35

SIGN LEGEND



CONSTRUCTION NOTES

1. SPACE DELINEATORS 35' ON CENTER
2. CONTRACTOR TO FURNISH AND INSTALL TEMPORARY CONSTRUCTION SIGN
3. CONTRACTOR TO FURNISH AND INSTALL TYPE III BARRICADE WITH SIGN
4. CONTRACTOR SHALL NOTIFY PUBLIC AND FURNISH AND INSTALL TEMPORARY NO PARKING SIGNS AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. NO PARKING SIGNS TO STAY FOR DURATION OF CONSTRUCTION.
5. SPACE DELINEATORS 17' ON CENTER
6. CONTRACTOR TO MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION OR PROVIDE PEDESTRIAN DETOUR.
7. PHASE A AND PHASE B SHALL NOT OCCUR AT THE SAME TIME.

LEGEND

- CONSTRUCTION SIGN
- TRAFFIC CONES FOR DELINEATION
- WORK AREA
- DIRECTION OF TRAVEL
- TS — TRAFFIC SIGNAL
- FAS — FLASHING ARROW SIGN (FAS)
- (XX') — EXISTING LANE WIDTH
- XX' — PROPOSED LANE WIDTH IN CONSTRUCTION AREA
- TYPE III BARRICADE WITH SIGN

PRIVATE CONTRACT

TRAFFIC CONTROL PLAN FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT SOUTH EDUCATION CENTER

VIA DEL CAMPO RD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 8 OF 108 SHEETS

PROJECT NO. 579681

FOR CITY ENGINEER _____ DATE _____

V.T.M. _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

1952-6299 NAD83 COORDINATES

312-1739 LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____

INSPECTOR _____ DATE COMPLETED _____

40375-T01-D

REGISTERED PROFESSIONAL ENGINEER BRIAN L. HERTING No. 84337 CIVIL STATE OF CALIFORNIA

Brian L. Herting
BRIAN L. HERTING R.C.E. NO. 84337

7/2/2018
DATE

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4218
Tel: (619) 234-946

WORK TO BE DONE:

REMOVAL OF EXISTING MEDIAN, CONSTRUCTION OF NEW MEDIAN, AND CONSTRUCTION OF CONCRETE PAVEMENT FOR CENTER AND NEW LEFT TURN LANE.

SPECIAL NOTES:

ADA ACCESS TO ALL BUSINESSES TO BE MAINTAINED DURING BUSINESS HOURS.

INSTALL W20-1 AND G20-2 SIGNS ON ALL SIDE STREETS WITHIN THE AREA AFFECTED BY CONSTRUCTION.

NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO PARTIAL CLOSURE OF DRIVEWAYS OR THE CLOSURE OF ON-STREET PARKING.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES WITHIN WORK ZONE THROUGHOUT DURATION OF CONSTRUCTION.

NOTES

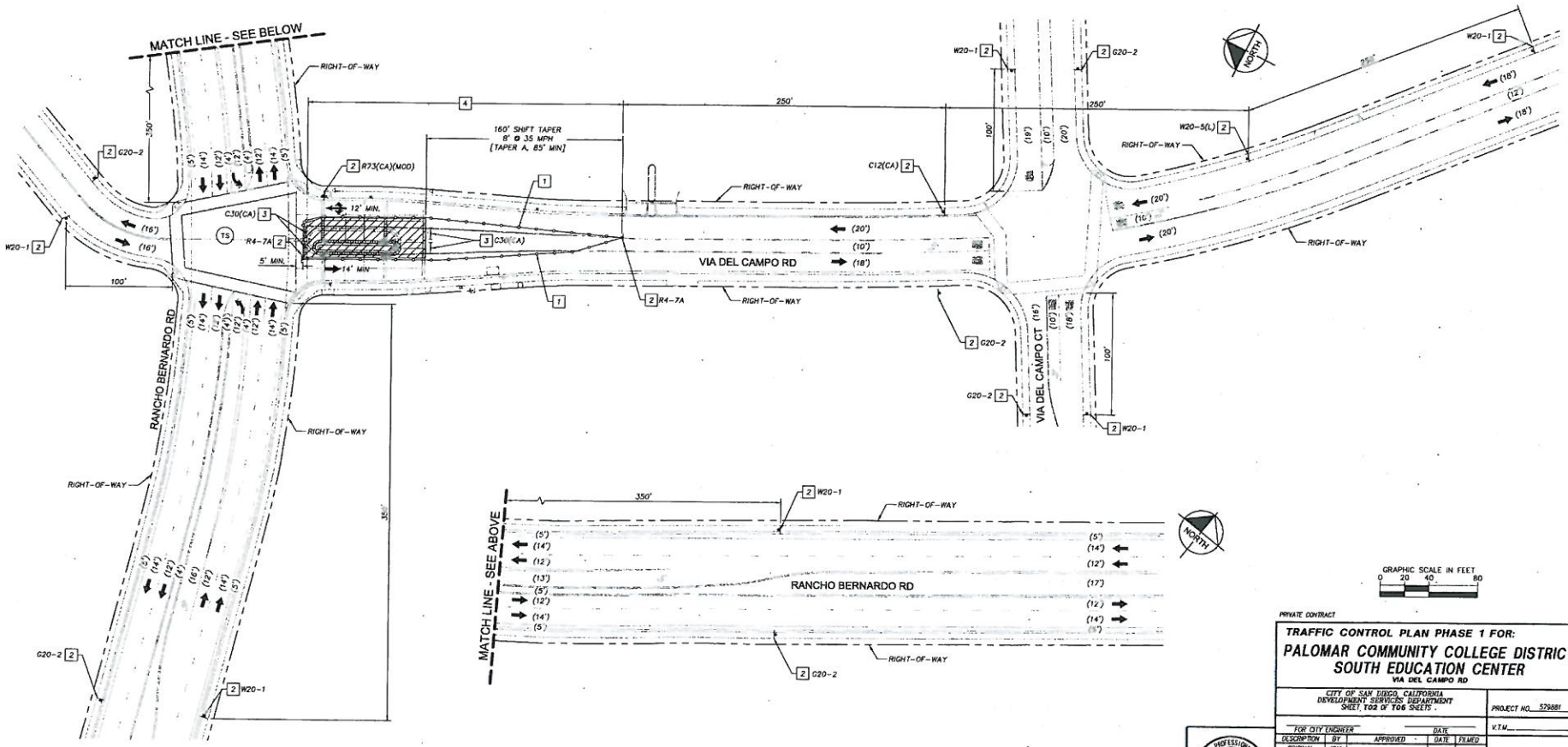
1. SPACE DELINEATORS 35' ON CENTER
2. CONTRACTOR TO FURNISH AND INSTALL TEMPORARY CONSTRUCTION SIGN
3. CONTRACTOR TO FURNISH AND INSTALL TYPE III BARRICADE WITH SIGN
4. CONTRACTOR SHALL NOTIFY PUBLIC AND FURNISH AND INSTALL TEMPORARY NO PARKING SIGNS AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. NO PARKING SIGNS TO STAY FOR DURATION OF CONSTRUCTION.
5. SPACE DELINEATORS 17' ON CENTER
6. CONTRACTOR TO MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION OR PROVIDE PEDESTRIAN DETOUR.
7. PHASE A AND PHASE B SHALL NOT OCCUR AT THE SAME TIME.

LEGEND

- CONSTRUCTION SIGN
- TRAFFIC CONES FOR DELINEATION
- WORK AREA
- DIRECTION OF TRAVEL
- TS — TRAFFIC SIGNAL
- FLASHING ARROW SIGN (FAS)
- (XX') — EXISTING LANE WIDTH
- XX' — PROPOSED LANE WIDTH IN CONSTRUCTION AREA
- TYPE III BARRICADE WITH SIGN

SIGN LEGEND

NARROW LANE	LANE CLOSED	END ROAD WORK	KEEP RIGHT		ROAD WORK AHEAD	LEFT LANE CLOSED AHEAD
C12(CA) 36"X36"	C30(CA) 30"X30"	G20-2 36"X18"	R4-7A 24"X30"	R73(CA)(MOD) 30"X30"	W20-1 36"X36"	W20-5(L) 36"X36"



GRAPHIC SCALE IN FEET
0 20 40 80

TAPER CALCULATION

A: 8' SHIFT TAPER @ 35 MPH = L/2 = (8*35*35/80)/2 = 85'

BRIAN L. HERTING R.C.E. NO. 64337 — 7/2/2018 DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN L. HERTING No. 64337 Civil STATE OF CALIFORNIA

PRIVATE CONTRACT

TRAFFIC CONTROL PLAN PHASE 1 FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO RD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET, T02 OF T06 SHEETS.

PROJECT NO. 579881

FOR CITY ENGINEER _____ DATE _____

V.T.M. _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

1952-6299 NAD83 COORDINATES
312-1739 LAMBERT COORDINATES

40375-T02-D

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4218
Tel: (619) 234-944

WORK TO BE DONE:

CONSTRUCTION OF CONCRETE PAVEMENT FOR CENTER AND RIGHT TURN LANE.

SPECIAL NOTES:

ADA ACCESS TO ALL BUSINESSES TO BE MAINTAINED DURING BUSINESS HOURS.

INSTALL W20-1 AND G20-2 SIGNS ON ALL SIDE STREETS WITHIN THE AREA AFFECTED BY CONSTRUCTION.

NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO PARTIAL CLOSURE OF DRIVEWAYS OR THE CLOSURE OF ON-STREET PARKING.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES WITHIN WORK ZONE THROUGHOUT DURATION OF CONSTRUCTION.

NOTES

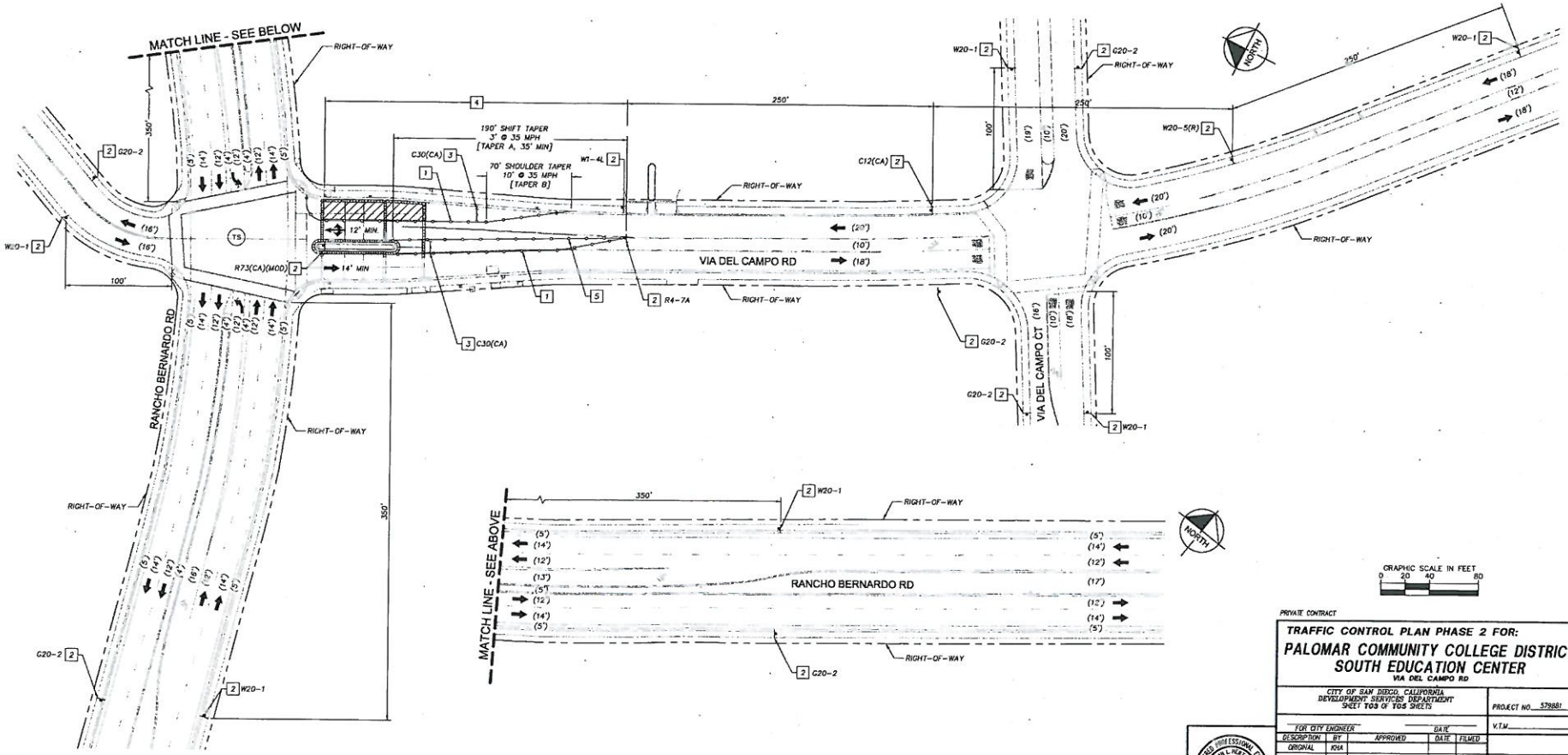
1. SPACE DELINEATORS 35' ON CENTER
2. CONTRACTOR TO FURNISH AND INSTALL TEMPORARY CONSTRUCTION SIGN
3. CONTRACTOR TO FURNISH AND INSTALL TYPE III BARRICADE WITH SIGN
4. CONTRACTOR SHALL NOTIFY PUBLIC AND FURNISH AND INSTALL TEMPORARY NO PARKING SIGNS AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. NO PARKING SIGNS TO STAY FOR DURATION OF CONSTRUCTION.
5. SPACE DELINEATORS 17' ON CENTER
6. CONTRACTOR TO MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION OR PROVIDE PEDESTRIAN DETOUR.
7. PHASE A AND PHASE B SHALL NOT OCCUR AT THE SAME TIME.

LEGEND

- CONSTRUCTION SIGN
- TRAFFIC CONES FOR DELINEATION
- WORK AREA
- DIRECTION OF TRAVEL
- TS — TRAFFIC SIGNAL
- FLASHING ARROW SIGN (FAS)
- (XX') — EXISTING LANE WIDTH
- XX' — PROPOSED LANE WIDTH IN CONSTRUCTION AREA
- TYPE III BARRICADE WITH SIGN

SIGN LEGEND

NARROW LANE	LANE CLOSED	END ROAD WORK	KEEP RIGHT			ROAD WORK AHEAD	RIGHT LANE CLOSED AHEAD
C12(CA) 36"X36"	C30(CA) 30"X30"	G20-2 36"X18"	R4-7A 24"X30"	R73(CA)(MOD) 30"X30"	W1-4L 36"X36"	W20-1 36"X36"	W20-5(R) 36"X36"



TAPER CALCULATION

A: 3' SHIFT TAPER @ 35 MPH = L/2 = (8*35*35/60)/2 = 35'
B: 10' SHOULDER TAPER @ 35 MPH = L/3 = (10*35*35/60)/3 = 70'

BRIAN L. HERTING R.C.E. NO. 84337 — 7/2/2018 DATE

REGISTERED PROFESSIONAL ENGINEER — BRIAN L. HERTING — No. 84337 — CIVIL — STATE OF CALIFORNIA

PRIVATE CONTRACT

TRAFFIC CONTROL PLAN PHASE 2 FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO RD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T03 OF T03 SHEETS

PROJECT NO. 579881

FOR CITY ENGINEER _____ DATE _____

V.T.M. _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			

1952-6299
NAD83 COORDINATES

312-1739
LAMBERT COORDINATES

AS-BUILTS
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40375-T03-D

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4238
Tel. (619) 234-9481

WORK TO BE DONE:

CONSTRUCTION OF CONCRETE GUTTER AND PEDESTRIAN CROSSWALK.

SPECIAL NOTES:

ADA ACCESS TO ALL BUSINESSES TO BE MAINTAINED DURING BUSINESS HOURS.

INSTALL W20-1 AND G20-2 SIGNS ON ALL SIDE STREETS WITHIN THE AREA AFFECTED BY CONSTRUCTION.

NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO PARTIAL CLOSURE OF DRIVEWAYS OR THE CLOSURE OF ON-STREET PARKING.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES WITHIN WORK ZONE THROUGHOUT DURATION OF CONSTRUCTION.

GUTTER RECONSTRUCTION TO BE PERFORMED PRIOR TO FULL SIGNAL MODIFICATION AND REMOVAL OF CROSSWALK ON THE WEST LEG OF RANCHO BERNARDO ROAD. CONTRACTOR TO ENSURE SAFE OPERATION DURING CONSTRUCTION.

NOTES

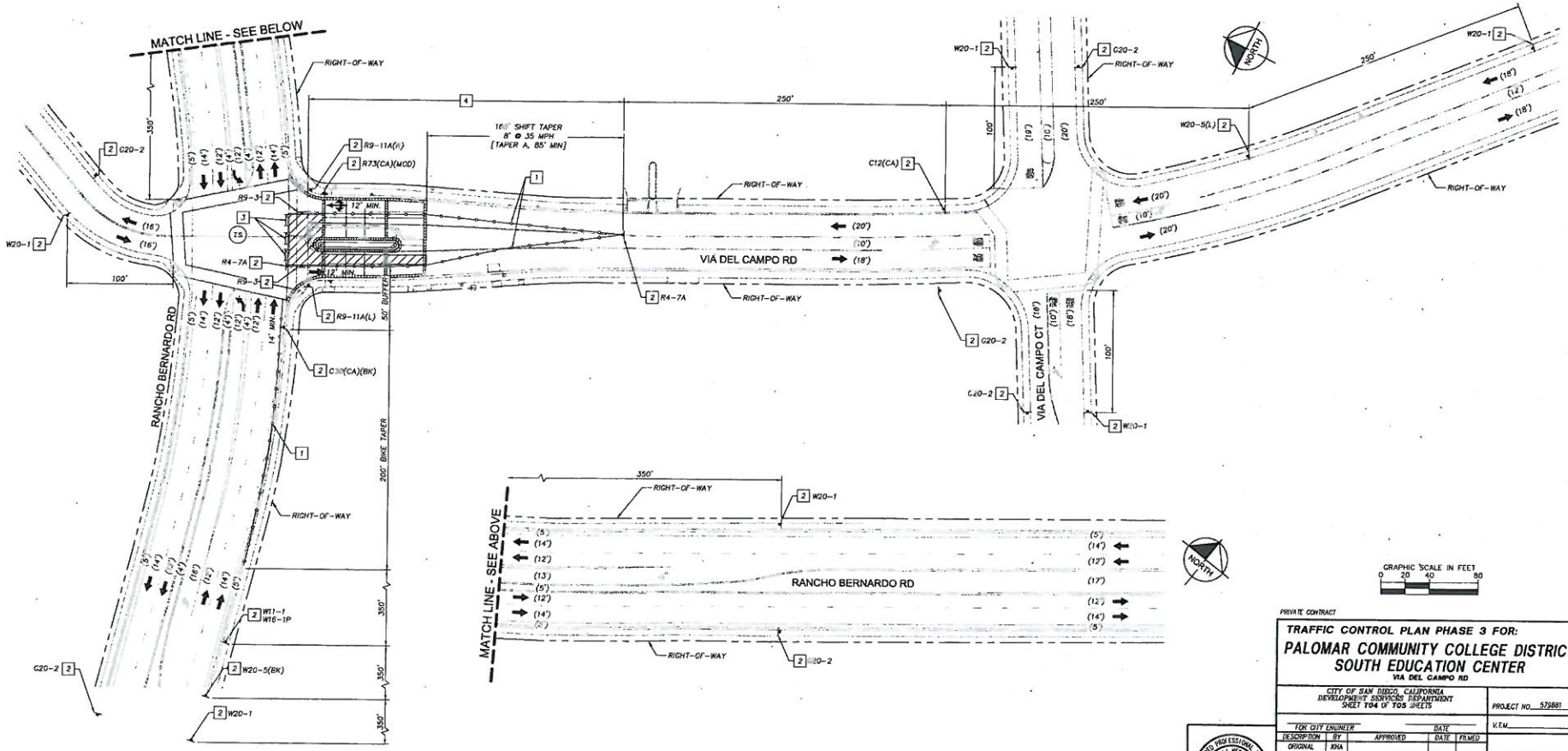
1. SPACE DELINEATORS 35' ON CENTER
2. CONTRACTOR TO FURNISH AND INSTALL TEMPORARY CONSTRUCTION SIGN
3. CONTRACTOR TO FURNISH AND INSTALL TYPE III BARRICADE WITH SIGN
4. CONTRACTOR SHALL NOTIFY PUBLIC AND FURNISH AND INSTALL TEMPORARY NO PARKING SIGNS AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. NO PARKING SIGNS TO STAY FOR DURATION OF CONSTRUCTION.
5. SPACE DELINEATORS 17' ON CENTER
6. CONTRACTOR TO MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION OR PROVIDE PEDESTRIAN DETOUR.
7. PHASE A AND PHASE B SHALL NOT OCCUR AT THE SAME TIME.

LEGEND

- CONSTRUCTION SIGN
- TRAFFIC CONES FOR DELINEATION
- WORK AREA
- DIRECTION OF TRAVEL
- TS — TRAFFIC SIGNAL
- FLASHING ARROW SIGN (FAS)
- (XX') — EXISTING LANE WIDTH
- XX' — PROPOSED LANE WIDTH IN CONSTRUCTION AREA
- TYPE III BARRICADE WITH SIGN

SIGN LEGEND

NARROW LANE	LANE CLOSED	BIKE LANE CLOSED	END ROAD WORK	KEEP RIGHT		SIDEWALK CLOSED CROSS HERE
C12(CA) 36"X36"	C30(CA) 30"X30"	C30(BK)(CA) 30"X30"	G20-2 36"X18"	R4-7A 24"X30"	R9-3 18"X18"	R9-11A(L) 24"X12"
SIDEWALK CLOSED CROSS HERE			SHARE THE ROAD	ROAD WORK AHEAD	BIKE LANE CLOSED AHEAD	LEFT LANE CLOSED AHEAD
R9-11A(R) 24"X12"	R73(CA)(MOD) 30"X30"	W11-1 36"X36"	W16-1P 18"X24"	W20-1 36"X36"	W20-5(BK) 36"X38"	W20-5(L) 36"X36"



TAPER CALCULATION

A: 8' SHIFT TAPER @ 35 MPH = L/2 = (8*35*35/60)/2 = 85'

BRIAN L HERTING R.C.E. NO. 84337 — DATE 7/2/2018

REGISTERED PROFESSIONAL ENGINEER BRIAN L. HERTING No. 84337 CIVIL STATE OF CALIFORNIA

PRIVATE CONTRACT

TRAFFIC CONTROL PLAN PHASE 3 FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT
SOUTH EDUCATION CENTER
VIA DEL CAMPO RD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T04 OF T05 SHEETS

PROJECT NO. 579881

FOR CITY ENGINEER — DATE — V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

1952-5059 NAD83 COORDINATES
312-1739 LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

40375-T04-D

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4238
Tel: (619) 234-948

WORK TO BE DONE:

CONSTRUCTION OF CONCRETE GUTTER AND PEDESTRIAN CROSSWALK.

SPECIAL NOTES:

ADA ACCESS TO ALL BUSINESSES TO BE MAINTAINED DURING BUSINESS HOURS.

INSTALL W20-1 AND C30-2 SIGNS ON ALL SIDE STREETS WITHIN THE AREA AFFECTED BY CONSTRUCTION.

NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO PARTIAL CLOSURE OF DRIVEWAYS OR THE CLOSURE OF ON-STREET PARKING.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES WITHIN WORK ZONE THROUGHOUT DURATION OF CONSTRUCTION.

GUTTER RECONSTRUCTION TO BE PERFORMED PRIOR TO FULL SIGNAL MODIFICATION AND REMOVAL OF CROSSWALK ON THE WEST LEG OF RANCHO BERNARDO ROAD. CONTRACTOR TO ENSURE SAFE OPERATION DURING CONSTRUCTION.

NOTES

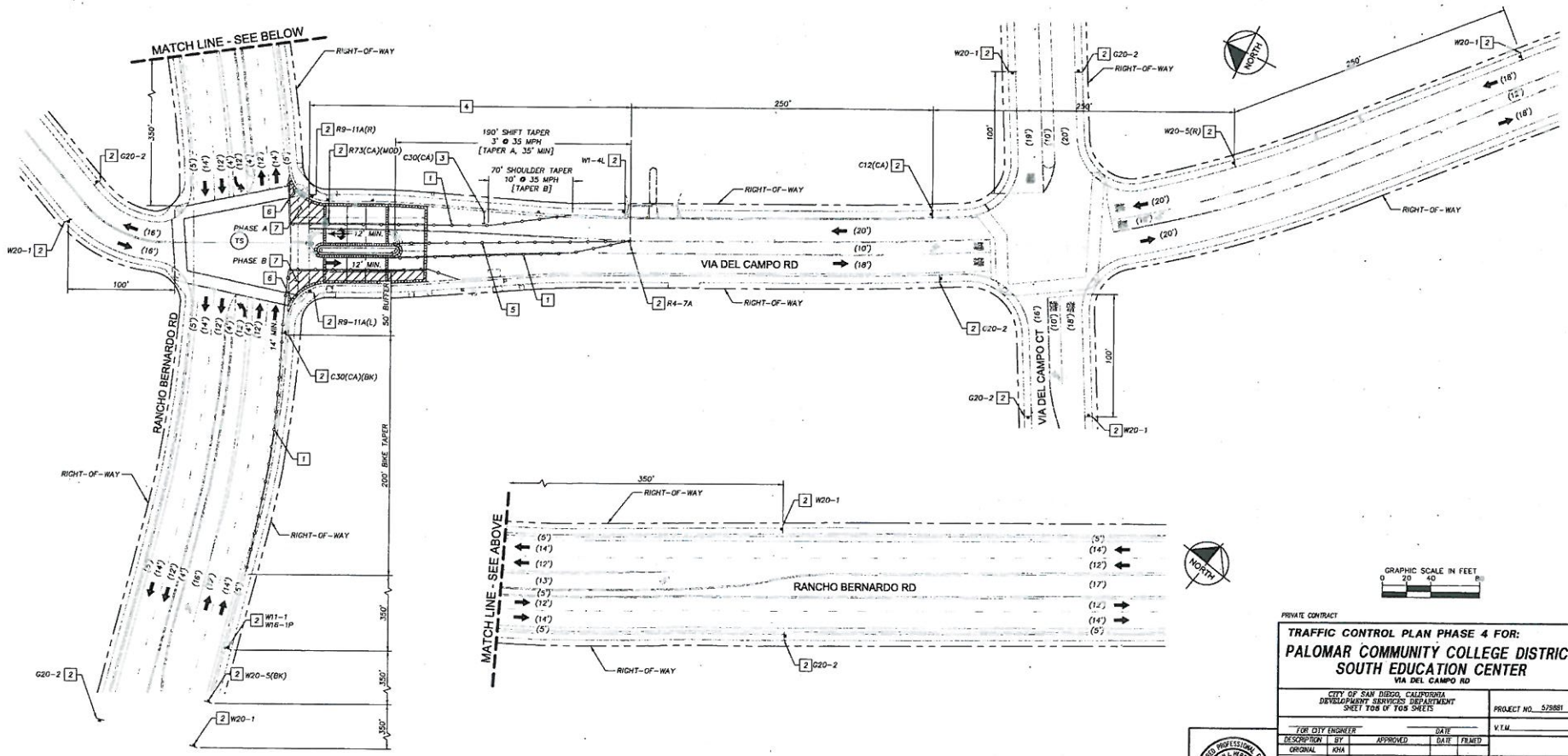
1. SPACE DELINEATORS 35' ON CENTER
2. CONTRACTOR TO FURNISH AND INSTALL TEMPORARY CONSTRUCTION SIGN
3. CONTRACTOR TO FURNISH AND INSTALL TYPE III BARRICADE WITH SIGN
4. CONTRACTOR SHALL NOTIFY PUBLIC AND FURNISH AND INSTALL TEMPORARY NO PARKING SIGNS AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. NO PARKING SIGNS TO STAY FOR DURATION OF CONSTRUCTION.
5. SPACE DELINEATORS 17' ON CENTER
6. CONTRACTOR TO MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION OR PROVIDE PEDESTRIAN DETOUR.
7. PHASE A AND PHASE B SHALL NOT OCCUR AT THE SAME TIME.

LEGEND

- CONSTRUCTION SIGN
- TRAFFIC CONES FOR DELINEATION
- WORK AREA
- DIRECTION OF TRAVEL
- TS — TRAFFIC SIGNAL
- FLASHING ARROW SIGN (FAS)
- (XX') — EXISTING LANE WIDTH
- XX' — PROPOSED LANE WIDTH IN CONSTRUCTION AREA
- TYPE III BARRICADE WITH SIGN

SIGN LEGEND

NARROW LANE	LANE CLOSED	BIKE LANE CLOSED	END ROAD WORK	KEEP RIGHT		SIDEWALK CLOSED ← CROSS HERE	SIDEWALK CLOSED → CROSS HERE
C12(CA) 36"X36"	C30(CA) 30"X30"	C30(BK)(CA) 30"X30"	G20-2 36"X18"	R4-7A 24"X30"	R9-3 18"X18"	R9-11A(L) 24"X12"	R9-11A(R) 24"X12"
R73(CA)(MOD) 30"X30"	W11-1 36"X36"	W16-1P 18"X24"	W1-4L 36"X36"	ROAD WORK AHEAD W20-1 36"X36"	BIKE LANE CLOSED AHEAD W20-5(BK) 36"X36"	RIGHT LANE CLOSED AHEAD W20-5(R) 36"X36"	



TAPER CALCULATION

A: 3' SHIFT TAPER @ 35 MPH = L/2 = (8*35*35/60)/2 = 35'
B: 10' SHOULDER TAPER @ 35 MPH = L/3 = (10*35*35/60)/3 = 70'

BRIAN L. HERTING R.C.E. NO. 84337 — 7/2/2018 DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN L. HERTING No. 84337 CIVIL STATE OF CALIFORNIA

PRIVATE CONTRACT

TRAFFIC CONTROL PLAN PHASE 4 FOR:

PALOMAR COMMUNITY COLLEGE DISTRICT SOUTH EDUCATION CENTER

VIA DEL CAMPO RD

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T05 OF T05 SHEETS

PROJECT NO. 579881

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KHA			
AS-BUILTS				

1012-6299 NAD83 COORDINATES

312-1739 LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

40375-T05-D

Kimley»Horn
401 B Street - Suite 600
San Diego, Ca. - 92101-4218
Tel: (619) 234-9481

NOTICE TO BIDDERS
ADDENDUM #4
Bid #105-18 South Education Center Offsite Intersection Improvement Project

Palomar Community College District

The following changes, additions, deletions, clarifications or corrections shall become part of the Bid & Contract Documents for the above listed project. This Addendum #4 forms a part of the contract document and modifies the original bidding documents. Acknowledge receipt of Addendum #4 in the space provided on the bid form. Failure to do so may subject bidder to disqualification.

ADDITIONAL PLANS AND INFORMATION

Release of approved plans from the City of San Diego engineering department.

END OF ADDENDUM #4

Date Issued: July 13, 2018

Ron Ballesteros-Perez, Assistant Superintendent
Vice President Finance & Administrative Services
Palomar Community College District

NOTICE TO BIDDERS
ADDENDUM #4
Bid #105-18 South Education Center Offsite Intersection Improvement Project

Palomar Community College District

The following changes, additions, deletions, clarifications or corrections shall become part of the Bid & Contract Documents for the above listed project. This Addendum #4 forms a part of the contract document and modifies the original bidding documents. Acknowledge receipt of Addendum #4 in the space provided on the bid form. Failure to do so may subject bidder to disqualification.

ADDITIONAL PLANS AND INFORMATION

Release of approved plans from the City of San Diego engineering department.

END OF ADDENDUM #4

Date Issued: July 13, 2018

Ron Ballesteros-Perez, Assistant Superintendent
Vice President Finance & Administrative Services
Palomar Community College District