NOTICE TO BIDDERS
ADDENDUM #1
Bid #CM-17-18-01-NEC-01-G North Education Center Interim Village Communications & Security 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 #1 forms a part of the contract document and modifies the original bidding documents. Acknowledge receipt of Addendum #1 in the space provided on the bid form. Failure to do so may subject bidder to disqualification.

CLARIFICATIONS

1. Use Bid Form provided in bid documents (page 59) for your submittal. Do not use the individual Bid Forms in the any individual Specification.

2. Pricing will include all work in Phases 2 through 4 as shown in the Plans and Specifications.

3. Bid Package G, Technical Specifications item 1.4 is revised to required project experience with a "single project scope of more than ***1,000*** drops".

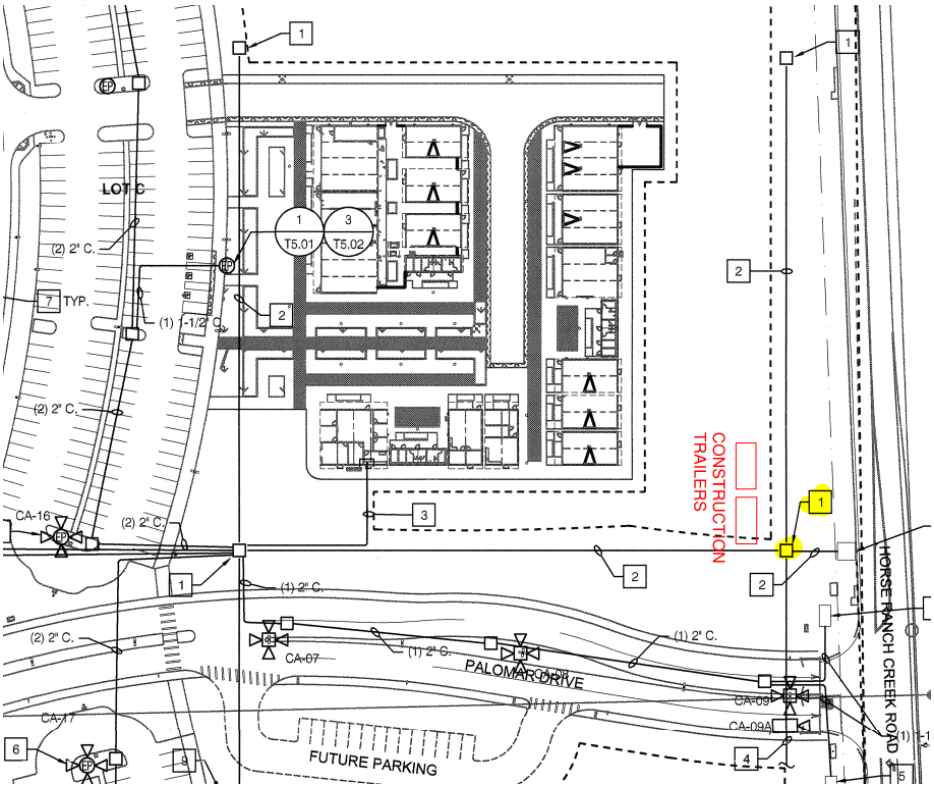
4. Bid Package G, Technical Specifications item 1.5 is revised to require certifications of only the manufacturers listed. Ocularis 5 requirement: A OnSSI Authorized Platinum Premium Partner certificate is acceptable.

5. This scope is to include fiber to copper media transceivers for cameras, as indicated on sheet T4.02. District will provide the switch at the MDF.

6. Delete the scope for fiber to the monuments signs at the campus entrances, as called out on Note 5 of sheet T1.01.

7. This scope is to include data from the MDF to the irrigation controller that is located at main SDGE switchgear yard on the south side of Palomar Way, per Note 9 on T1.01 in pathway provided by others.

8. This scope is to include copper and fiber from the MDF to the temporary construction trailers on west side of project, through existing pathway to the vault immediately west of the trailers. Account for a total 15 data drops at the trailers, through existing walls and ceilings.



9. Specification Section Page 28 20 00 – 4, section 2.01.A.7 states Network Switch/Patch Panel at termination point shall be provided by the owner. Only the switch will be provided by the owner. The patch panel is provided and installed by the contractor.

10. Specification Section Page 28 20 00 – 4, section 3.03.F.1 states that the training will be at the project site. The training location needs to be at the Owner's discretion.

11. Specification Section 28 10 00 Access Control Security Alarm System is deleted in its entirety. There will be no card readers, door hardware, door contacts, motion detectors, or intrusion detectors required of the Bid Package G.

12. Owner will inspect all installations before racks and/or other hardware is permanently fastened. It is highly recommended that contractors visit a District IDF or MDF room to review District's installation expectations. Visits can be coordinated through Mike Dimmick.

13. Light poles by others will not have any drilling or other preparation for cameras.

14. Specification Section 27 51 26 – Assistive Listening System is BY OTHERS in ALL PHASES.

REVISIONS TO SEPECIFICATIONS

1. See Addendum 1 Attachment A for Phase 2 Directive 3 for Specification Section 27 51 27 Emergency Communication Stations (as applies to this scope). Each Talk-A-phone unit will have a copper cable, a fiber cable, and cameras to be installed and terminated by this Bid Package G. Addendum 1 Attachment B, Phase 2 RFI 13 clarifies location and number of Talk-A-Phones. All will include face height and overhead camera arm options, with arms provided by others.

PRE-BID REQUESTS FOR INFORMATION QUESTIONS AND RESPONSES

(1) QUESTION: Div 28 specifications, page 282000-4, 2.01, A Video Surv System Equipment, Denotes cameras as Manufactured by Panasonic. (Part 2 PRODUCTS 2.01 Acceptable Mfg's) Would Palomar College accept any substitutions on the cameras?

RESPONSE: Substitutions may be submitted; however, there are no guarantees that they will be accepted. Substitution cut sheets must be provided and final approval of any and all such substitutions will be at the discretions of Palomar College Information Services. Any approved substituted materials must also meet schedule requirements for completion by June 1, 2018.

(2) QUESTION: For the ONSSI, does the campus have specific roles and user set ups for the VMS? If there is a Standard operating procedure, is it available? This would determine the amount of time needed for programing.

RESPONSE: Owner will manage all roles and user configurations.

(3) QUESTION: Bid package 270500-9, 1.07, #4 states "certificate must be included with quote". Since certificates were due March 21, 2018; do we still need to submit our certs with the bid?

RESPONSE: Certificates are due March 21 and do not need to be resubmitted with the Bid.

(4) QUESTION: In document 1335 (and in others), the AV responsibly matrix Drawing T1.00, denotes the AV equipment (screens, projectors and displays) are to be provided by the AV contractor. Are there specs available for these AV products and are we to provide them?

RESPONSE: AV scope will be by others. Paging System per Section 27 51 13 will be part of this Bid Package G.

(5) QUESTION: Page 282000-3 Video Surv spec (see attached) section asks for references and requires Berk Tek Certification. Is this correct?

RESPONSE: This is correct as the contractor that is installing the Berk-Tek cabling must be certified.

END OF ADDENDUM #1

Date Issued: March 23, 2018

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

HMC Architects

Construction Change Directive

PROJECT: **Palomar College North Ed Center**
Interim Village

DIR #003

PHASE 2 – SITE WORK

ADDRESS: 35090 Horse Ranch Creek Road
Fallbrook, CA 92028

DATE: **January 25, 2018**

TO: **Balfour Beatty- Job Trailer**
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

HMC #: 5015019-102
DSA #: 04-116580
FILE # 37-C1

You are hereby directed to make the following change(s) in this Contract:

DESCRIPTION OF WORK TO BE PERFORMED: Add Spec 275127

ITEM DIR-1.01: Add spec 275127 Emergency Communication Systems
JUSTIFICATION: Items were shown on the dwgs but the specification was missing.

REQUESTED BY: HMC Architects

Proposed Adjustments

1. The proposed basis of adjustment to the Contract Sum or Guaranteed Maximum Price is:

   _____ Lump Sum (increase) (decrease) of $ _____

   _____ Unit Price of $ _____ per _____

   __X__ No Cost to the Owner.

   _____ As Follows:

2. The Contract Time to:

   _X_ Remain unchanged.

   _____ The proposed adjustment, if any, is an **increase** of _____ days.

   _____ The proposed adjustment, if any, is a **decrease** of _____ days.

When signed by the Owner and Architect and received by the Contractor, this document becomes effective IMMEDIATELY as a Construction Change Directive (DIR), and the Contractor shall proceed with the change(s) described above.

Architect	**Owner**	**Contractor**
HMC Architects	Palomar College	
Date: 1/25/18	Date:	Date:
By:	By:	By:
Sandra Corazzelli		

ATTACHMENTS: Spec 275127

cc: John Philipps (Palomar), Kent Schafer (CIS), John Frisbie (JCE), Eric Ryke (P2S)

7

SECTION 27 51 27

EMERGENCY COMMUNICATION STATIONS

PART 1 - GENERAL

1.01 DESCRIPTION

A. Work Included:
   1. Under this Section, the Contractor is to provide Wall Mounted Emergency Communications Stations (ECS), including procuring, installing, and rendering fully operational all necessary hardware, software, firmware, conduits, wiring, and any other related or required appurtenance or device, as required for a complete and workable installation which meets or exceeds the project performance specifications, whether or not any such component, conduit, wiring, or other related or required appurtenance or device is specifically listed or called out.
   2. Equipment to be provided and installed includes, but is not limited to:
      a. Wall Mounted Emergency Communication Stations
      b. Any required or associated device, component, hardware, software, or firmware
      c. Power and Data Cabling, Conduit, and Infrastructure as required for a completely operable system which meets or exceeds all performance specifications
   3. The work includes providing all labor, materials, tools, equipment, and documentation required for a complete and working Emergency Communications System as specified in this document.

B. Abbreviations and Acronyms
   1. ADA = Americans with Disabilities Act
   2. ECS = Emergency Communications Station
   3. EEPROM = Electrically Erasable Read Only Memory
   4. PBX = Private Branch Exchange
   5. LED = Light Emitting Diode
   6. UPS = Uninterruptable Power Supply
   7. PVT = Performance Verification Testing

C. Definitions
   1. Emergency Communications System – Panic button type emergency phones, which allow for rapid establishment of emergency communications with responding authorities.

1.02 RELATED DOCUMENTS

A. Section 27 05 00 – Common Work Results for Communications

B. The Specifications and Drawings are intended to be complementary. A specific section, paragraph or heading in a Division may not describe all details concerning work to be done and materials to be furnished. The Drawings are diagrammatic and may not show all of the work required or all construction details. Dimensions are shown for critical areas only; all dimensions and actual placements are to be verified in the field. It is to be

understood that the best trade practices of the Division will prevail. It remains the responsibility of the Contractor or Subcontractor to provide all items, equipment, construction, and services required to the proper execution and completion of the Work.

C. Reference listings are provided as a convenience to the Contractor or Subcontractor providing the Work of this Section and may not contain all the requirements affecting this Section. It remains the responsibility of the Contractor or Subcontractor to locate and comply with all requirements of the Contract Documents.

D. All related specification sections shall be used in conjunction with this section.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: The manufacturer of all equipment installed as a part of this contract shall meet the following criteria:
   1. Shall be regularly engaged in the manufacture and assembly of similar type equipment for a minimum of five (5) continuous years preceding the date of this document.
   2. Shall have an office staffed with factory trained technicians, fully capable of engineering, supervising installation, system start-up, providing Owner training and supervising of both hardware and software for the all systems installed as a part of this project.

B. Contractor Qualifications: The Contractor shall meet the following qualifications at a minimum:
   1. Shall be an authorized factory trained and certified reseller of all system components installed or interfaced with as a part of this contract.
   2. Contractor shall be regularly engaged in installing similar equipment, and shall have successfully completed 3 systems of a similar size and scope within the preceding 3 years of the date of this document. These systems must be currently in operation, and the contractor shall supply the following reference information with their proposal:
      a. Name of Client
      b. Type of Facility
      c. System Installed
      d. Date of Substantial Completion
      e. Names of Contractor’s Key Personnel on Project
      f. Contact Name, Title, Phone, and Email
   3. It is expected by the Owner that the same key personnel will execute this project as completed the referenced work. This would include the Project Manager, the Project Engineer, and the Lead Installer. Resumes will be provided for these personnel. If different key personnel are executing this project than executed the reference projects, resumes for these personnel shall be provided for the Owner’s approval with the Contractor’s bid package.
   4. Sub-contractors shall provide resumes showing qualification for the specific system that the sub-contractor will be installing / configuring.
   5. Contractor shall be certified with BerkTek Cabling Solutions, and project installation staff shall be similarly and independently certified

1.04 SUBMITTALS

A. General:
   1. Prior to installing any material related to or required by this section, submit the following information for review.
      a. Block diagrams of the proposed system and interconnection wiring diagrams showing all connections required between system components.
      b. A materials list with names of manufacturers, model numbers, and technical information on all equipment proposed. Product technical information sheets for each principal component in the proposed system. Include wire/cable specifications and wire/cable marking material. Where the data sheet covers a range of material, the specific part number shall be highlighted
      c. 6 complete sets of operations and maintenance manual for the system products being supplied, provided in 3-ring binders, and 1 complete set submitted in electronic format on DVD. Include complete sets of the equipment operating instructions, installation instructions, and troubleshooting guides.

B. Testing:
   1. PVT Plan to be submitted a minimum of 20 working days prior to planned start of PVT procedure.

C. Close Out:
   1. Within 10 working days of substantial completion and prior to project closeout, the Contractor shall provide to the Owner a complete set of As-Built drawings, showing any deviation from the original plans and specifications, in mounting location, infrastructure pathway, or any other substantive change.

1.05 WARRANTY

A. General:
   1. All equipment and system shall be warranted against defects in material and workmanship for a period of one (1) year from the date of startup. Warranty coverage shall include parts, labor, travel, expenses, and labor to remove/reinstall all products. The warranty document shall be submitted with the Contractor's submittals and shall include details on inclusions and exclusions, deductibles, and availability of extended coverage options, priced for extended coverage in years 2, 3, and 4 past expiration of the original warranty period.
   2. Warranty service shall be separated into 2 classes of service, critical item service and non-critical item service.
   3. Critical items shall be described as any part or device which if fails would cause spaces to be inaccessible to any authorized person, for example, card reader failure. Critical failures are to be corrected within 24 hours of notification to the Contractor, 7 days per week. Non-critical failures are to be corrected within 7 days of notification to the Contractor.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS AND MODEL NUMBERS

A. Cabling shall be CAT 6A as manufactured by BerkTek in order to provide a 20-Year Warranty.

B. Emergency Phones: Talk-a-Phone, Niles Illinois

Model ETP-400 / ETP-MT/R OP5 with no equivalent

2.02 PERFORMANCE SPECIFICATIONS

A. The Emergency Communications Stations shall have the following features and functionally at a minimum:
   1. General Description – The Emergency Communications Station shall consist of a vandal-resistant, hands-free speakerphone communications device with a stainless-steel faceplate and metal button.
   2. The ECS shall have one anodized aluminum tactile button labeled “EMERGENCY”, and one 0.375” diameter red LED labeled “LIGHT ON INDICATES PHONE CALL RECEIVED”.
   3. The ECS shall be mounted in the appropriate wall mount enclosure, vandal resistant with a lighted faceplate and a blue strobe which provides a minimum light output of 209 Lumens.
   4. The ECS shall be programmable from a remote location and have a two-number dialing capability, reverting to the second number if the first is busy, or does not answer. The unit shall be totally hands-free on both sides after initial activation either on site or by responding authorities. The unit shall be phone-line powered, and shall require external power only for the strobe light.

PART 3 - EXECUTION

3.01 General Intent – It is the intent of the owner to have a qualified contractor install a complete and fully operational Emergency Communications System, as shown on the project drawings which provides the means for personnel transiting the campus to summon help or assistance.

3.02 The contractor shall procure, provide, install, and make fully operational the system as described in this specification and shown on the project drawings. Specific scope items include, but are not limited to:

A. Provision and installation of Emergency Communications Station components as shown on project drawings

B. Provision and installation of Emergency Communications System headend controllers and software (Owner to provide workstations and servers)

3.03 DELIVERY, STORAGE AND HANDLING:

A. Intent – It is the intent of the Owner to have a qualified contractor procure, provide, install, and render fully operational ECS components as shown on the project drawings, in order

to provide an Emergency Communications System which allows personnel on the campus to have a ready means of contacting responding authorities in times of emergency.

B. Product Acceptance, Storage, and Handling Requirements
   1. Acceptance – Upon delivery to the project site, Contractor shall inspect all products and materials to assure that all products and material have been received in a new and undamaged state. Acceptance of the shipment, by the Contractor, shall constitute acknowledgement that the Contractor has reviewed the products and material and has found no discrepancies in quantity or condition, and that any products or materials subsequently found to be missing or damaged will be the sole responsibility of the Contractor.
   2. Storage and Handling - Store products and materials in the original manufacturer's sealed packaging, in an environmentally controlled area per the manufacturer's specifications.

C. Before Beginning Work
   1. Site Verification of Conditions – Contractor shall be responsible for examining the pathway elements intended for cables. Check raceways, cable trays, and other elements for compliance with space allocations, installation tolerances, hazards to cable installation, and other conditions which would affect the project execution. Any such unsatisfactory pathways shall be reported to the Owner.
   2. Proceed with installation only after all unsatisfactory issues have been corrected or resolved.

D. General Installation Requirements:
   1. ECS locations as shown on drawings are conceptual in nature, and Contractor shall verify final placement with the Owner before beginning any work.
   2. Maintain strict site security throughout the course of the project. Rooms housing the equipment and workstations shall be locked up and secure during periods when Contractor personnel are not present.
   3. Utilize protective cover, fenders, and barriers to ensure all equipment remains in an undamaged and new condition until notice of substantial completion.
   4. Install system per the manufacturer's instructions.
   5. The installed system must meet all local, state, and federal codes.
   6. Contractor shall verify that all power feeds for powering the system strobe lights are connected to the buildings emergency power UPS.
   7. Contractor shall be responsible for providing all conduit, junction boxes, conductors, equipment plugs, terminal strips and labor to install a complete and operational system.
   8. Equipment racks shall be seismically bolted to the floor by the Contractor once the Owner determines the final location for each rack. Any mounting brackets attached to walls shall be screwed to studs, not drywall. All rack-mounted equipment shall be able to be serviced within the rack and in the rack's final location. The need to unbolt racking equipment to access or service equipment shall not be acceptable.
   9. Cables shall not be spliced in underground enclosures.
   10. Splices must be kept to a minimum. Any field splices must be secured in a NEMA box appropriate to the conditions.
   11. The use of wire lubricants is highly discouraged. If usage of such lubricant cannot be avoided, Contractor shall procure verification, in writing, from the cable

manufacturer stating that the specific lubricant used is acceptable and will not damage or degrade the cable.

Cable tray pathways designated for telecom shall not be utilized for support of conduit, conductors, or control wiring of any type, except as specified in this section. No Access Control, Surveillance, or Intrusion Detection cabling which is not Category 5 or 6 shall be intermingled with such Category 5 or 6 cabling. Non-telecom low voltage cabling shall be segregated to one side of the cable pathway and kept separated from telecom cabling through utilization of cable management.

12. All firewalls penetrated by Access Control, Surveillance, or Intrusion Detection cabling shall be sealed by the Contractor. A non-permanent method of sealing shall be utilized, such as fire blanketing or other approved method in compliance with the current edition of National Fire Protection Association (NFPA), the National Electric Code (NEC), and any other applicable code. Method and material utilized must be a system listed by Underwriter's Laboratory (UL) for that purpose. The Contractor shall not utilize concrete or other non-removable substance for fire stopping on cable trays, raceways, or conduit. If the Contractor uses permanent substances, the Contractor will be required to replace all cables and pathways affected as to provide the original specified access to each area at the Contractor's own expense.

E. Coordination
   1. Contractor shall coordinate all work with any other trades present on the project which will be directly affected by the execution of this contract.
   2. Contractor shall coordinate all work with the Owner as to avoid impacting any student activities or classes to the greatest extent possible.

F. Testing and Commissioning:
   1. The Contractor shall be responsible for final system hardware hook up and checkout prior to performance verification testing being conducted with the Owner. The Contractor shall pre-test all cabling to assure cabling is free from interference, opens, grounds, or short circuits.
   2. The Contractor shall develop a Performance Verification Testing (PVT) plan. The PVT plan shall identify each new system component included in the project, the intent of testing it, methods and tools required for the testing, and expected result. Each component shall be individually listed with space for noting PASS or FAIL, Contractor / Owner Sign-off, time and date of test, and related comments. The PVT plan shall be submitted to the Owner a minimum of 20 (TWENTY) working days prior to the scheduled beginning of PVT. No testing shall take place until Owner has approved the PVT.
   3. As a part of the final system commissioning, Contractor shall submit a listing of all enabled passwords within the system, and shall provide instruction specific to changing the password after the Contractor's departure from the site.
   4. Following satisfactory completion of PVT plan, the system shall be operated at normal facility load for a period of 30 calendar days as a burn-in period. If any item or system fails during the burn-in period, the burn-in period shall be suspended until such item or system has been corrected, at which time the test period will recommence. Notice of final System Acceptance will be withheld until burn-in period has been successfully completed.
   5. Notice of Final System Completion will not be issued until the following requirements have all been met:
      a. All required submittals accepted.

b. Delivery of final documentation, including but not limited to As-Builts drawings.
c. Successful PVT & burn-in period
d. Completion of all required training activities.
e. Purging of all Contractor passwords and removal of all Contractor access to the systems.

G. Training and Instruction:
1. Before the system is turned over to the owner, the manufacturer shall provide 16 hours of system operations and maintenance training at the project site using the customer's equipment for up to 10 of the owner's representatives. The Owner shall determine hours to be allocated to each training type.
2. This training shall be conducted during normal business hours of the equipment supplier at a date and time of mutual convenience.
3. This training shall be conducted by a manufacturer certified trainer.
4. Training materials shall not be generic, and shall be specific to the project.

H. Warranty:
1. The system shall be warrantied for a period of 1 year from date of acceptance. Written notification shall be sent to the owner stating the date this warranty period has started.
2. The equipment manufacturer shall provide with their bid package to the owner a maintenance contract proposal to provide a minimum of two inspections and preventative tests per year.
3. The Contractor shall provide with their bid package to the Owner a proposal for an extended parts and labor warranty service, priced for the 1st, 2nd, and 3rd years of post-warranty period operation.

I. Site Clean-up
1. Upon completion of the contract, Contractor shall be responsible for project site cleanup. All installed materials shall be clean, enclosures free of dust and debris, and surfaces wiped free of smudges and fingerprints. The Contractor shall remove all project associated debris and rubbish occasioned by the work from the site. The contractor shall clean all interior spaces dirtied by the work. Remove all temporary protective covers and shrouds from all equipment.

END OF SECTION

Balfour Beatty Construction

Request For Information

Project [14724000] - Palomar College North Edu Ctr

Date 1/10/2018

Balfour Beatty Construction
1140 West Mission Road
San Marcos, CA 92069

RFI No. Phase 2-013

Primary Responder		**Date**	1/10/2018
		Status	Open
CC		**Resolved Date**	
From	Brendon Seitz Balfour Beatty Construction	**Reason for Request**	Conflict
		Action Requested	Clarification
		Probable Cost Effect	Unknown
		Probable Time Effect	Unknown
		Priority	
		Response Due	1/17/2018

Subject Emergency Phone Locations & Quantities
Drawing No. E1.4, T1.01 **Detail No./Paragraph**
CSI Code **Schedule Activity ID**

Information Requested

Sheet E1.4 shows a total of 6 emergency phones, per Note 5; shown in red on the attached E1.4 sheet. Sheet T1.01 shows a total of 10 emergency phones; shown in blue on the attached T1.01 sheet.

It appears the 4 emergency phones missing on E1.4 were added on the T1.01 sheet with the Approved DSA set, but were not added to the electrical drawings with the Approved DSA set.

Please clarify the amount and locations of the desired emergency phones.

Recommendation

Posted to Drawings
Subcontractor Name Ace
Subcontractor's RFI#

JCE/John Frisbie 1/18/2018 - See attached revised E1.4 for additional blue phone locations P2S/Eric Ryke 1/18/2018 - Emergency Phones stated on T1.01 will be the required quantity of blue phones.

Response Information

Responder	Date	Response

Disclaimer

Supporting documents and attached files

This RFI has the following supporting documents and attached files:

	Description	Date	Open as
	Document: 14724000-00044 RFI Phase 2-013 Emergency Phone Locations Quant... 4660KB	1/10/2018	

Attached file Supporting document

RFI #7

Ace Electric, Inc.
6061 Fairmount Ave
San Diego, California 92120
Phone: (619) 521-9740
Fax: (619) 521-9742

Project: 1909 - Palomar North Education Center
35090 Horse Ranch Creek Road
Fallbrook, California 92028

Emergency Phone Locations & Quantities

TO:	Brendon Seitz **(Balfour Beatty Construction)**	**FROM:**	Chris Hinds **(Ace Electric, Inc.)**
DATE INITIATED:	01/09/2018	**STATUS:**	Open
LOCATION:		**DUE DATE:**	
COST CODE:		**REFERENCE:**	
COST IMPACT:		**SCHEDULE IMPACT:**	
DRAWING NUMBER:		**SPEC SECTION:**	
LINKED DRAWINGS:			
RECEIVED FROM:	Jason Goldhagen **(Ace Electric, Inc.)**		
COPIES TO:			

Question from Chris Hinds (Ace Electric, Inc.) at 12:36 PM on 01/09/2018

Sheet E1.4 shows a total of 6 emergency phones, per Note 5; shown in red on the attached E1.4 sheet. Sheet T1.01 shows a total of 10 emergency phones; shown in blue on the attached T1.01 sheet.

It appears the 4 emergency phones missing on E1.4 were added on the T1.01 sheet with the Approved DSA set, but were not added to the electrical drawings with the Approved DSA set.

Please advise.

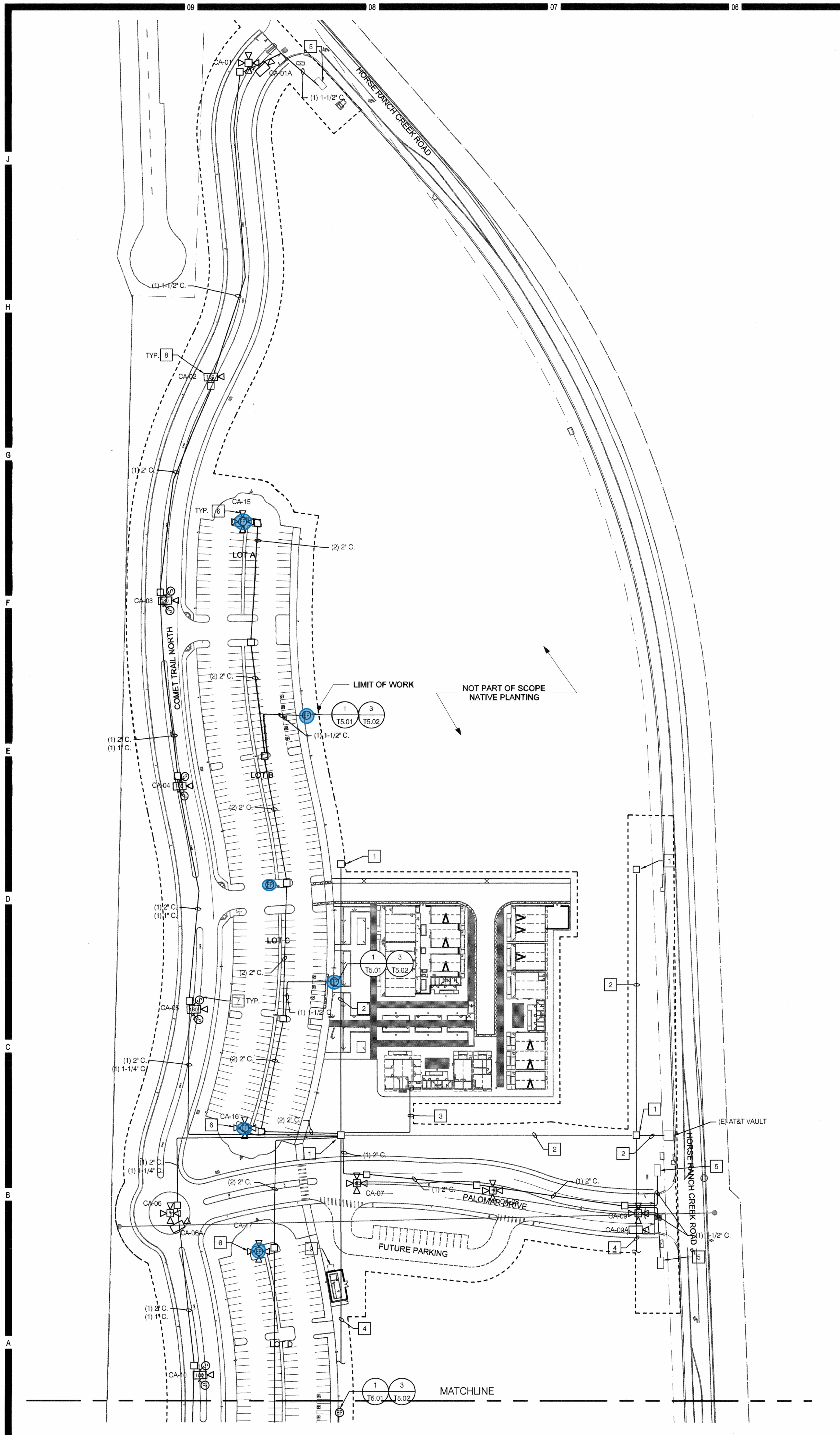
Awaiting an Official Response

All Replies:

BY **DATE** **COPIES TO**

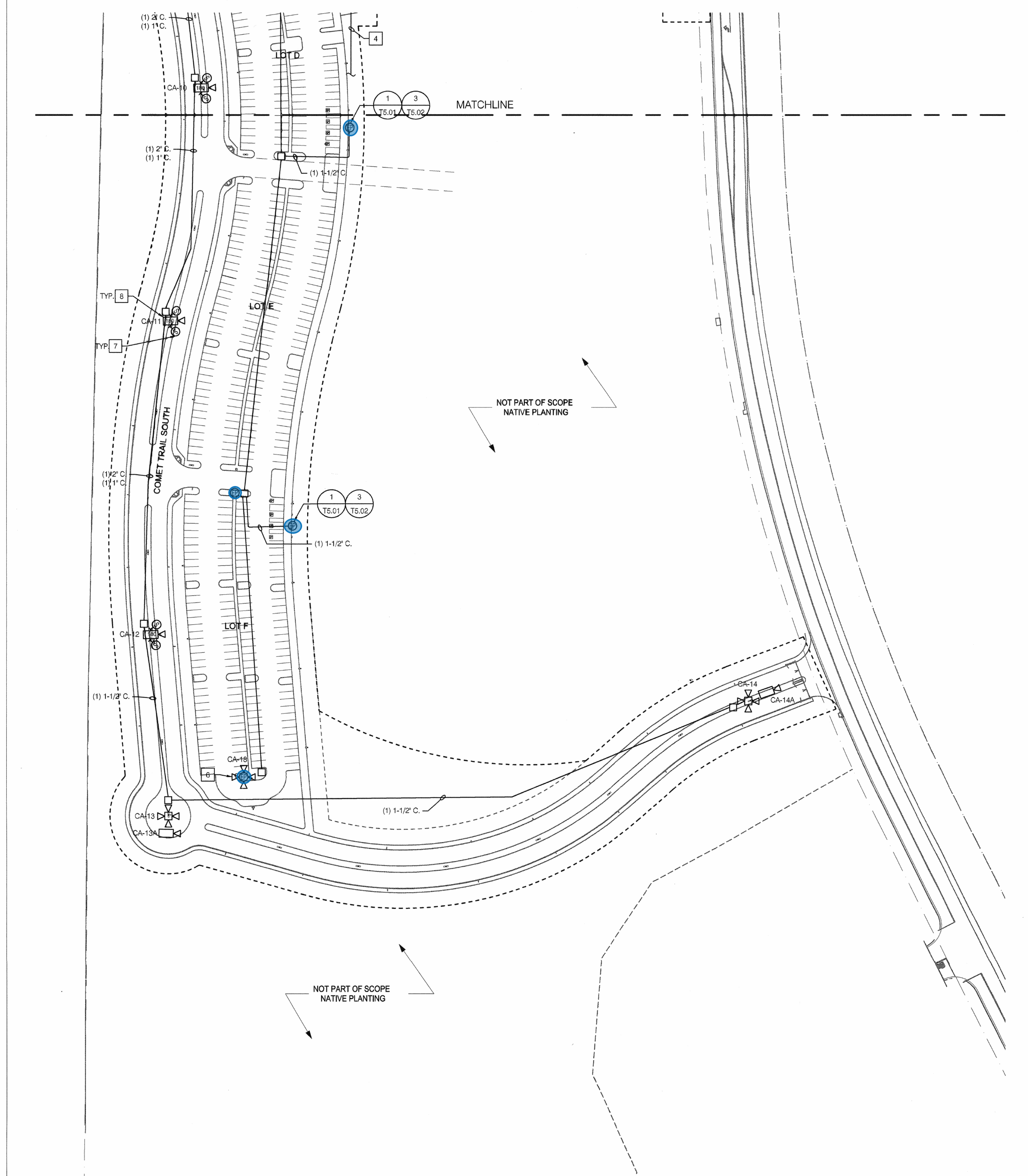
HMC Architects

3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com



ENLARGED SITE PLAN NORTH- INTERIM VILLAGE 2

1" = 70'-0"



ENLARGED SITE PLAN SOUTH - INTERIM VILLAGE 1

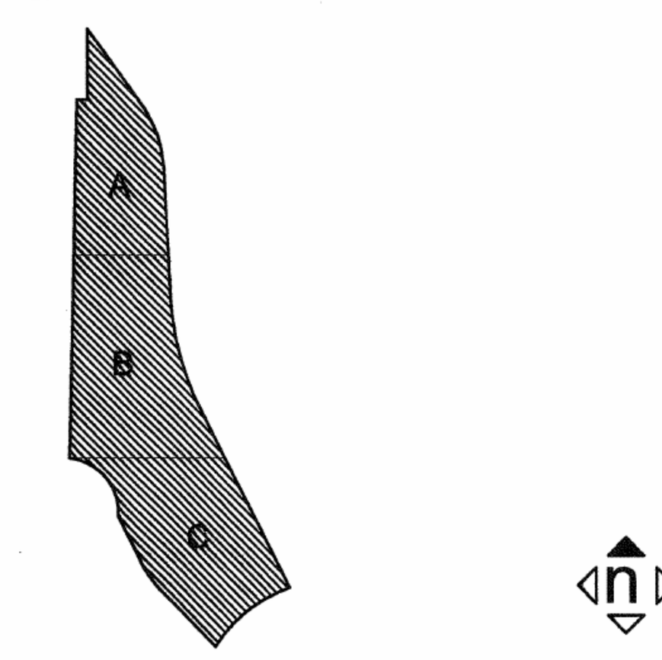
1" = 70'-0"

KEYNOTES

NO.	Note - Detail
1	PROVIDE AND INSTALL 4' X 6'-6" X 6'-6" TELECOM VAULT.
2	PROVIDE AND INSTALL (6) 4" CONDUIT.
3	PROVIDE AND INSTALL (6) 2" CONDUIT.
4	PROVIDE AND INSTALL (6) 4" CONDUIT. STUB CONDUIT AT THE END.
5	COMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL (1) 6-STRAND SINGLE MODE FIBER OPTIC WITH MEDIA CONVERTER FOR DIGITAL SIGNAGE FROM MDF.
6	COMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL (1) 6-STRAND SINGLE MODE FIBER OPTIC TO EMERGENCY PHONE FROM MDF. TYPICAL
7	POLE MOUNTED SPEAKERS. REFER TO TAV4.01 FOR CABLING AND 2/T5.02 FOR MOUNTING. CABLING TO RUN IN ITS OWN DEDICATED CONDUIT. TYPICAL
8	PROVIDE AND INSTALL (1) 6 STRAND SINGLE MODE FIBER FROM MDF TO ALL CAMERA LOCATIONS. TYPICAL.
9	COMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL (1) 6-STRAND SINGLE MODE FIBER OPTIC WITH MEDIA CONVERTER FOR IRRIGATION CONTROL. COORDINATE LOCATION WITH IRRIGATION AND ELECTRICAL CONTRACTOR.

NOTES

Key Plan



Consultant Seal

REGISTERED PROFESSIONAL ENGINEER ARAVIND BATRA No. E16609 ELECTRICAL STATE OF CALIFORNIA

SIGNED: 12/01/2017

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116580

ACS FLS SSS

DATE DEC 08 2017

Project Title

Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
	DSA SUBMITTAL - PHASE II	10/06/2017

Drawing Title:

Overall Site Plan

Architect's Seal

LICENSED ARCHITECT BRADLEY E GLASSICK NO. C-32437 REN. 02-28-19 STATE OF CALIFORNIA

Designed:	ER	Project No.	5015019-102
Drawn:	JQ	Scale:	1" = 100'
QAQC	ER	Drawing No.	T1.01
Date:	12/01/2017		

PLEASE RECYCLE

DSA APPROVED SUBMITTAL

KEYNOTES

KEY NOTES:

1. 1 1/4"C., (3) #6, (1) #10 GND.
2. 3/4"C., (2) #10, (1) #10 GND.
3. PROVIDE (1) 1 1/4"C. SPARE TO POWER PEDESTAL.
4. 1"C., (3) #8, (1) #10 GND.
5. POWER CONNECTION TO EMERGENCY PHONE PEDESTAL.
6. 3/4"C., (2) #8, (1) #10 GND.
7. 1 1/4"C., (3) #4, (1) #8 GND.
8. 1 1/4"C., (2) #4, (1) #8 GND.
9. 1 1/4"C., (2) #6, (1) #10 GND.
10. PROVIDE (1) 1 1/4"C. SPARE.
11. STUB AND CAP BELOW GRADE.
12. PROVIDE (1) 3/4"C. SPARE.
13. PROVIDE 1 1/2" CONDUIT ONLY AND PULLBOXES AS SHOWN FOR FUTURE SEWER MONITORING CAP/SEALOFF CONDUIT STUB INTO SEWER SYSTEM.

NOTES

GENERAL NOTES:

1. REFERENCE SHEET E1 SERIES FOR TYPICAL SITE DETAILS.
2. ALL ABOVE GROUND EXPOSED CONDUIT SHALL BE RAPPED RIGID GALVANIZED STEEL.

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

JOHNSON CONSULTING ENGINEERS, INC.
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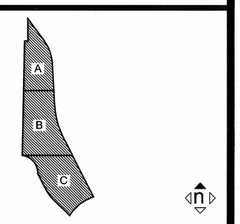
Communications | Data Networking
12875 Brookprinter Place, Suite 300
Poway, CA 92064
P 858.679.4030 | F 858.513.0559
www.jce-inc.com

REGISTERED PROFESSIONAL ENGINEER — No. E 14781 Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

#T1057.02 12/1/2017

Key Plan



Consultant Seal

Agency Approval — FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116580
ACS FLS 07 SSS
DATE DEC 05 2017

Project Title

PALOMAR COLLEGE Learning for Success

Palomar North Education Center
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
	DSA SUBMITTAL - PHASE II	10/6/2017

Drawing Title:
SITE LIGHTING

Architect's Seal

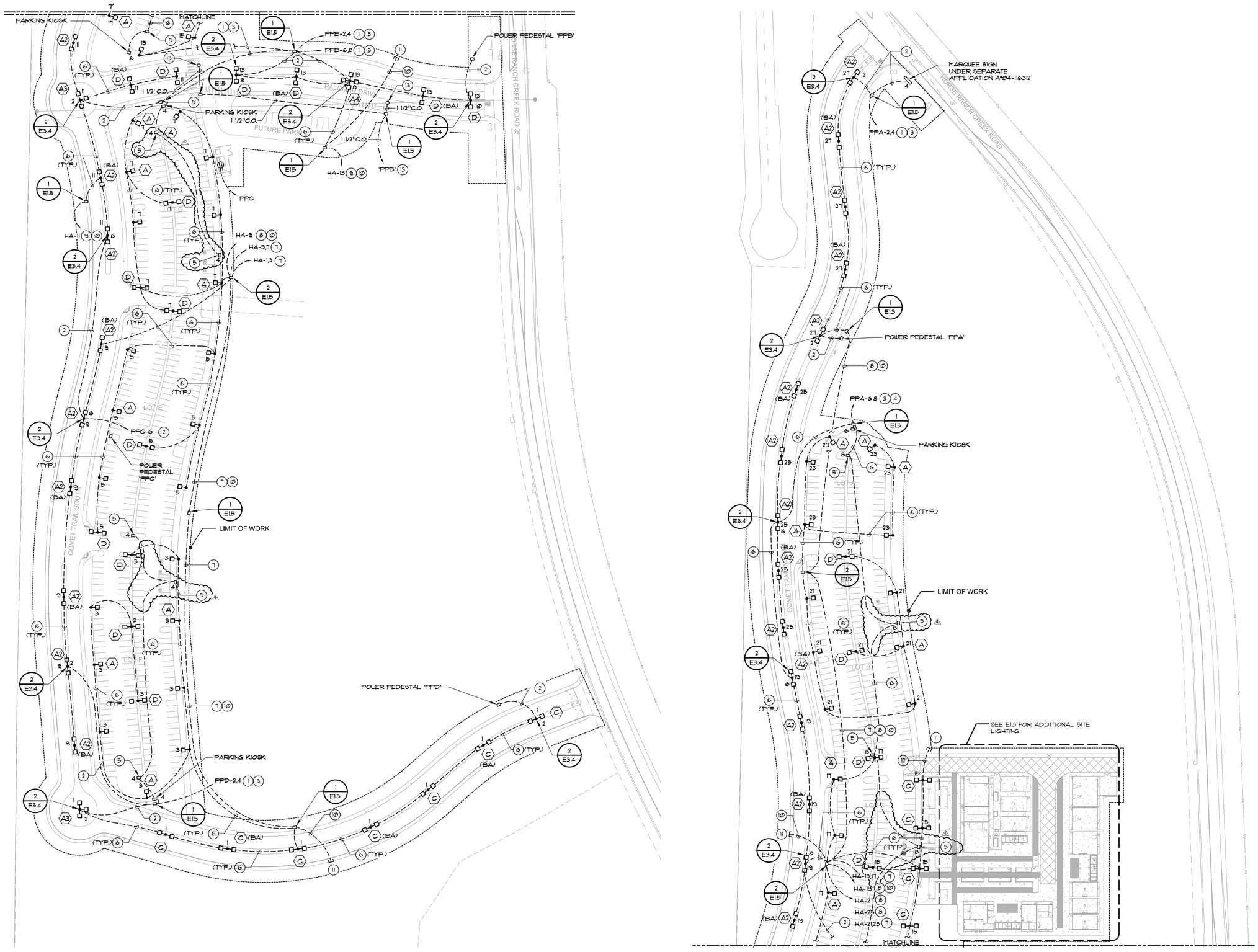
REGISTERED ARCHITECT — No. C-32437 — REN. 02-28-19 — STATE OF CALIFORNIA

Designed:	JF	Project No.	5015019-102
Drawn:	AO	Scale:	
QAQC	RG	Drawing No.	E1.4
Date:	10/6/2017		

SITE LIGHTING AND ELECTRICAL | 1 | 1" = 60'-0"

PLEASE RECYCLE

DSA APPROVED SET



KEYNOTES

KEY NOTES:

1. 1 1/4"C., (3) #8, (1) #10 GND.
2. 3/4"C., (2) #10, (1) #10 GND.
3. PROVIDE (1) 1 1/4"C. SPARE TO POWER PEDESTAL.
4. 1"C., (3) #8, (1) #10 GND.
5. POWER CONNECTION TO EMERGENCY PHONE PEDESTAL.
6. 3/4"C., (2) #8, (1) #10 GND.
7. 1 1/4"C., (3) #4, (1) #8 GND.
8. 1 1/4"C., (2) #4, (1) #8 GND.
9. 1 1/4"C., (2) #6, (1) #10 GND.
10. PROVIDE (1) 1 1/4"C. SPARE.
11. STUB AND CAP BELOW GRADE.
12. PROVIDE (1) 3/4"C. SPARE.
13. PROVIDE 1 1/2" CONDUIT ONLY AND PULLBOXES AS SHOWN FOR FUTURE SEWER MONITORING CAP/SEALOFF CONDUIT STUB INTO SEWER SYSTEM.

NOTES

GENERAL NOTES:

1. REFERENCE SHEET E1 SERIES FOR TYPICAL SITE DETAILS.
2. ALL ABOVE GROUND EXPOSED CONDUIT SHALL BE RAPPED RIGID GALVANIZED STEEL.

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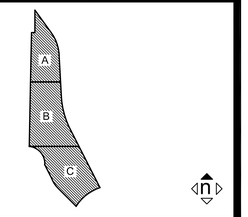
REGISTERED PROFESSIONAL ENGINEER — No. E 14781 — Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

*T057Ø2 1/17/2018

Key Plan



Consultant Seal

Agency Approval — FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116580
ACS ____ FLS ____ SSS ____
DATE ____

Project Title

PALOMAR COLLEGE Learning for Success

Palomar North Education Center
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
	DSA SUBMITTAL - PHASE II	10/6/2017
4	RFI 13 EMERGENCY PHONE LOCATIONS QUANTITIES	1/18/2018

Drawing Title:
SITE LIGHTING

Architect's Seal

LICENSED ARCHITECT — BRADLEY E GLASSCOCK — NO. C-32437 — REN. 02-28-19 — STATE OF CALIFORNIA

Designed:	JF	Project No.	5015019-102
Drawn:	AO	Scale:	
QAQC	RG	Drawing No.	E1.4
Date:	10/6/2017		

SITE LIGHTING AND ELECTRICAL | 1 | 1" = 60'-0"

PLEASE RECYCLE

DSA APPROVED SET