



ADDENDUM #2
RFQ 201-17
MASS GRADING AND SITE UTILITIES
NORTH EDUCATION CENTER PROJECT

As per the directions in the RFQ package, the following questions were submitted for clarification, and/or supplemental information is being supplied in accordance with section III: Information for Respondents of the RFQ:

- ITEM (1): The website link <https://bbcus.egnyte.com/fl/FNtHAZP5y3> has been updated with the attendance sheet and minutes from the Non Mandatory Jobwalk on July 28, 2017 at 10AM. (8/1/17)
- ITEM (2): The website link <https://bbcus.egnyte.com/fl/FNtHAZP5y3> has been updated with "Document 00875R1 Master Construction Schedule 8.1.17 Update" showing the scope of this RFQ taking place between Sept 28, 2017 and Jan 31, 2018. (8/1/17)
- ITEM (3): The website link <https://bbcus.egnyte.com/fl/FNtHAZP5y3> has been updated to include the document "RFQ 201-17 Addendum #2 Fire Flow" indicating water pressures at the hydrants along Horse Ranch Creek Road. (8/1/17)

The information above is added to RFQ 201-17
Date issued: August 1, 2017

*Ron E. Ballesteros-Perez,
Assistant Superintendent, Vice President
Finance and Administrative Services
Palomar Community College District*

PALOMAR COLLEGE NORTH EDUCATION CENTER

RFQ-201-17 MASS GRADING AND SITE UTILITIES

JOB WALK 7.28.17

SEE SEPARATE SIGN IN SHEET FOR ATTENDANCE

AGENDA

- WELCOME, INTRODUCTIONS, AND SIGN IN
- JOB REVIEW
 - History of Horse Ranch Creek Road and this parcel
 - Reviewed job layout. Grading and utilities to Interim Village are critical starting point.
 - Project is high profile between the freeway and housing development, the first step of an important new campus, very time constrained, has potential for Native American and biological impacts.
 - There will be inspectors and cultural/archaeological/biological monitors full time throughout the project. It will be critical to follow their directions, stop work in any identified locations immediately, and be able to adjust work to accommodate.
 - SCHEDULE: grading planned for Sept 2017 to January 2018 starting at Interim Village. Site utilities to start not long after grading starts - western storm drain line and basins, east-west sewer main, and small section of water line at east entrance to get municipal water onto private property. Interim Village Occupancy by **May 1, 2018**.
- EXPLAIN RFQ – documents are at the link in the RFQ, note addendum #1 to date (note: Addendum #1 has updated grading plans approved by DSA and dated 7.18.17)
 - Last RFIs by Aug 2
 - **RFQs due Aug 10** (see documents for format)
 - All contractors must be BBC prequalified
 - **Interviews Aug 17 and 18** – Important that trades show they have equipment and manpower to meet schedule. Balfour Beatty and District are Interested in soliciting feedback in the RFQ interviews to make sure scope is clear. They are also open to suggestions for organization of the bid package to maximize clarity, reduce risk as much as possible for all parties, and achieve optimal competitiveness and cost. All qualified subs should be eligible to bid.
 - Bid package released 8/24/17.
 - **Hard bids due 8/31/17** – short time frame because contractors should have already been heavily involved in the scope in preparation for the RFQ.
 - Grading work to start work late Sept 2017.
- CONSULTANTS REVIEWED THEIR SCOPES (Masson and Associates, Helix Environmental, CTE)
 - Masson and Associates (Civil Engineers) noted the mass grading plan includes four large pads at decreasing elevation from north to south. The scope will include all the storm drainage shown on the mass grading plans, and sewer lines and (short) water line shown

on the Rainbow Municipal Water District plan. Clear and grubbed organic materials will need to be exported.

- CTE (Geotechnical Engineers) described the presence of ground water during test borings, and explained the geology of the Old and Young alluvium in the soils report.
- Helix (Environmental Consultants). There will be archaeological and Native American monitors throughout the project and working with them will be key to project success. Subcontractors will need to go through a training process before starting work.

QUESTIONS/ANSWERS

- **QUESTION:** Will the project have or use recycled water?

ANSWER: No, the project will use municipal potable water from fire hydrants along Horse Ranch Creek Road. Water mater and cost will be by Mass Grading Contractor.

- **QUESTION:** What is the pressure on the hydrants on HRC Road?

ANSWER: Water pressure is sufficient. A flow test was recently completed in the last few weeks. Results will be provided as part of Addendum #2.

- **QUESTION:** Are there plans for any new borings or additional exploratory excavation to check current groundwater status?

ANSWER: Currently, no. But that may be reconsidered by the time the formal bid package is released.

- **QUESTION:** How will SWPPP be done?

ANSWER: Current plan is to have grading contractor install and maintain during the grading operation, then have an outside company maintain long-term.

- **QUESTION:** How will fencing be handled?

ANSWER: Chain link or other fencing for security will be by others. Snow fence at the south and west to delineate the project limits will be by grading contractor.

- **QUESTION:** Will sound walls be required, typical of work further south on HRC Road?

ANSWER: Grading operations will be in between bird breeding season so soundwalls will not be required.

- **QUESTION:** What is required for import material, and what can be done with export if needed?

ANSWER: Site should be balance and import is not expected. Extra materials can be used to fill along the edge of the west access road, which has a significant slope to the west.

- **QUESTION:** Who provides survey?

ANSWER: Mass grading contractor will provide survey for the layout and execution of their work, including any restaking as required. Civil Engineer Masson and Associates has prepared a proposal for surveying, but any licensed Land Surveyor may be used. The District will provide all certifying/documentary surveying such as certified pads, bottoms of excavations, and lines/elevations for as-built's which may be required.

- **QUESTION:** How will standby time be accounted for in the event of impacts?

ANSWER: The process is being developed and will be clarified in the final bid package.

- **QUESTION:** Will the District provide excavation quantities as a baseline for bidding?

ANSWER: A quantifiable process that provides a way to clearly and fairly compare bids will be included in the final bid package, and will most likely to include unit rates for additional work.

- **QUESTION:** How will grading be achieved in the area, if the temporary construction facilities are installed immediately inside the main entrance before the mass grading starts?

ANSWER: That sequence will be defined in the final bid package. BBC and the District are open to suggestions.

PALOMAR COLLEGE NORTH EDUCATION CENTER

MASS GRADING/SITE UTILITY SCOPE

JOB WALK: 10AM Friday July 27, 2017

RFI DEADLINE: 5PM Tuesday August 2, 2017

RFQ DUE: 2PM Monday August 10, 2017 **SEE RFQ FOR FORMAT

INTERVIEWS: August 17 and 18, 2017

BIDS DUE: August 31, 2017

CONTACT: Daniel Luker, Project Manager - Balfour Beatty Construction

858-414-8106 DLuker@balfourbeattyus.com

NAME	COMPANY	PHONE	EMAIL
Daniel Luker	Balfour Beatty	858-414-8106	DLuker@balfourbeattyus.com
Steve Williams	Pro-Craft	909-790-5002	ESTIMATING@PRO-CRAFT-CONSTRUCTION-INC.COM
TIM CRAMER	LB3 ENTERPRISES		
ROB ASTEPHEN	LB3 ENTERPRISES	619-994-5553	ROB@LB3ENTERPRISES.COM
WILLY JAMES	FSW	619-421-1980	WILLY@FSWILLERT.COM
ANDREW BACKLUND	ELITE EARTHWORK	951-245-2220	ajbacklund@glbacklund.com
Ryan Smith	Maintain Masters	760-510-9019	rsmith@mountainmasters.org
Aaron Beeby	CTE	760-746-4955	aaron@cte-inc.net
Jimmy Wilson	Maintain Master	858-413-6616	jwilson@mountainmasters.org
JOHN PHILIPPS	PALOMAR COLLEGE		jphilippse@palomar.edu
ROB DAMARCO	MASSON & ASSOC.		ROBDAMARCO@MASSON-ASSOC.COM
Brittany Bonasera	Helix Environmental	951-667-4093	BrittanyB@helixepi.com
Justin Fischbeck	"	619-462-1515	JUSTINF@helixepi.com
Mary Robbins-Wade	"	619-885-5517	maryrw@helixepi.com
JASON ROSEY	SOUTH AND PAVING	760-801-3021	JASONR@SOUTHANDPAVING.COM
Rex Kyme	Kyme Const	619-749-2400	r.kyme@kymconst.com

Activity ID	Activity Name	Start	Orig Dur	Actl Dur	Rem Dur	% Compl	Finish	Total Float	2017												2018												2019												020
									F	M	Apr	M	J	Jul	A	S	Oct	N	D	Jan	F	M	Apr	M	J	Jul	A	S	Oct	N	D	Jan	F	M	Apr	M	J	Jul	A	S	Oct	N	D	J	
Palomar CCD North Education Center		01-Feb-17 A	694d	126d	568d		29-Oct-19	0d																																					
Project Summary & Milestones		01-Feb-17 A	694d	126d	568d		29-Oct-19	0d																																					
A1000	Project Start	01-Feb-17 A	0d	0d	0d	100%			◆ Project Start																																				
A1260	Project Duration (Cal Days)	01-Feb-17 A	881d	181d	820d	6.92%	29-Oct-19	0d	Project Dur																																				
A1001	Bird Season 2017 Ends (9/15/2017)		0d	0d	0d	0%	15-Sep-17*	0d	◆ Bird Season 2017 Ends (9/15/2017)																																				
A1002	Bird Season 2018 Starts (2/1/2018)	01-Feb-18*	0d	0d	0d	0%		442d	◆ Bird Season 2018 Starts (2/1/2018)																																				
A1080	Project Completion		0d	0d	0d	0%	29-Oct-19	0d	◆ Project Cor																																				
BBC Contracting		01-May-17 A	87d	64d	23d		01-Sep-17	16d																																					
Interim Village Construction (CM at Risk)		01-May-17 A	87d	64d	23d		01-Sep-17	16d																																					
A1541	BBC Legal Review	01-May-17 A	30d	40d	0d	100%	26-Jun-17 A		BBC Legal Review																																				
A1543	Contract Negotiations	27-Jun-17 A	20d	24d	13d	35%	17-Aug-17	16d	Contract Negotiations																																				
A1542	Approvals	18-Aug-17	10d	0d	10d	0%	31-Aug-17	16d	Approvals																																				
A1544	Contract Execution Prior to Mass Grading	01-Sep-17	0d	0d	0d	0%		16d	◆ Contract Execution Prior to Mass Grading																																				
Soils Report		01-Feb-17 A	88d	99d	0d		21-Jun-17 A																																						
A1005	Borings	01-Feb-17 A	20d	19d	0d	100%	28-Feb-17 A		Borings																																				
A1010	Preliminary Report	01-Feb-17 A	20d	19d	0d	100%	28-Feb-17 A		Preliminary Report																																				
A1020	Final Report	01-Feb-17 A	28d	27d	0d	100%	10-Mar-17 A		Final Report																																				
A1030	CGS Approval	13-Mar-17 A	61d	72d	0d	100%	21-Jun-17 A		CGS Approval																																				
A1360	CGS Approval Complete		0d	0d	0d	100%	21-Jun-17 A		◆ CGS Approval Complete																																				
Mass Grading		01-Feb-17 A	252d	126d	126d		31-Jan-18	0d																																					
Design		01-Feb-17 A	109d	117d	0d		18-Jul-17 A																																						
A1040	Design / DSA Submittal	01-Feb-17 A	85d	77d	0d	100%	22-May-17 A		Design / DSA Submittal																																				
A1050	DSA Back Check and Approval	23-May-17 A	28d	39d	0d	100%	18-Jul-17 A		DSA Back Check and Approval																																				
A1370	DSA Final Approval - Mass Grading		0d	0d	0d	100%	18-Jul-17 A		◆ DSA Final Approval - Mass Grading																																				
Bid Period		23-May-17 A	116d	48d	39d		26-Sep-17	0d																																					
A1071	Internal Grading Meeting #1 for Scope	23-May-17 A	4d	8d	0d	100%	02-Jun-17 A		Internal Grading Meeting #1 for Scope																																				
A1062	Mass Grading RFQ	23-May-17 A	20d	43d	0d	100%	24-Jul-17 A		Mass Grading RFQ																																				
A1074	District IOR Selection	01-Jun-17 A	71d	42d	29d	59.15%	11-Sep-17	9d	District IOR Selection																																				
A1552	District Monitor Selection	01-Jun-17 A	71d	42d	29d	59.15%	11-Sep-17	9d	District Monitor Selection																																				
A1075	Pre-RFQ Request for Clarifications Due	24-Jul-17 A	3d	6d	2d	33.33%	02-Aug-17	8d	Pre-RFQ Request for Clarifications Due																																				
A1060	RFQ Issued		0d	0d	0d	100%	24-Jul-17 A		◆ RFQ Issued																																				
A1136	Subcontractor Pre-Qualification Period	25-Jul-17 A	15d	5d	10d	33.33%	16-Aug-17	8d	Subcontractor Pre-Qualification Period																																				
A1065	Job Walk - Meet at Jobsite	28-Jul-17 A	1d	1d	0d	100%	28-Jul-17 A		Job Walk - Meet at Jobsite																																				
A1125	Pre-RFQ RFI Responses Posted	03-Aug-17	2d	0d	2d	0%	04-Aug-17	8d	Pre-RFQ RFI Responses Posted																																				
A1072	Internal Grading Meeting #2 for Scope	08-Aug-17	1d	0d	1d	0%	08-Aug-17	8d	Internal Grading Meeting #2 for Scope																																				
A1085	RFQ Due	10-Aug-17	0d	0d	0d	0%		8d	◆ RFQ Due																																				
A1135	District / BBC RFQ Review	10-Aug-17	5d	0d	5d	0%	16-Aug-17	8d	District / BBC RFQ Review																																				
A1137	Subcontractor Pre-Qualification Complete	17-Aug-17	0d	0d	0d	0%		8d	◆ Subcontractor Pre-Qualification Complete																																				
A1095	Contractor Interviews	17-Aug-17	2d	0d	2d	0%	18-Aug-17	8d	Contractor Interviews																																				
A1096	District / BBC Shortlist	18-Aug-17	4d	0d	4d	0%	23-Aug-17	8d	District / BBC Shortlist																																				
A1097	Shortlist Announced / Bid Package Released	24-Aug-17	0d	0d	0d	0%		8d	◆ Shortlist Announced / Bid Package Released																																				
A1098	Bidding	24-Aug-17	6d	0d	6d	0%	31-Aug-17	8d	Bidding																																				
A1099	Bids Due		0d	0d	0d	0%	31-Aug-17	8d	◆ Bids Due																																				
A1145	Bid Analysis	01-Sep-17	3d	0d	3d	0%	06-Sep-17	8d	Bid Analysis																																				
A1105	Board Approval to Award	06-Sep-17	5d	0d	5d	0%	12-Sep-17	8d	Board Approval to Award																																				

Start Date: 01-Feb-17
 Finish Date: 29-Oct-19
 Data Date: 01-Aug-17
 Print Date: 01-Aug-17 12:31

■ Remaining Level of Effort ◆ Milestone
■ Summary
■ Actual Work
■ Remaining Work
■ Critical Remaining Work

BBC LT-C1			
Date	Revision	Checked	Approved

Activity ID	Activity Name	Start	Orig Dur	Actl Dur	Rem Dur	% Compl	Finish	Total Float	2017												2018												2019												020
									F	M	Apr	M	J	Jul	A	S	Oct	N	D	Jan	F	M	Apr	M	J	Jul	A	S	Oct	N	D	Jan	F	M	Apr	M	J	Jul	A	S	Oct	N	D	J	
Construction																																													
A1121	DRHorton HRC Road Construction Complete	31-Oct-17	98d	0d	98d	0%	23-Mar-18	0d	◆ DRHorton HRC Road Construction Complete																																				
A1120	Construction - Electrical Sitework	21-Nov-17	84d	0d	84d	0%	23-Mar-18	0d	■ Construction - Electrical Sitework																																				
A1520	Construction - Wet Utilities	21-Nov-17	84d	0d	84d	0%	23-Mar-18	0d	■ Construction - Wet Utilities																																				
Parking																																													
A1130	Design / DSA Submittal	01-May-17 A	275d	64d	211d		31-May-18	191d	■ Design / DSA Submittal																																				
A1140	DSA Back Check and Final Approval	29-Aug-17	19d	0d	19d	0%	25-Sep-17	15d	■ DSA Back Check and Final Approval																																				
A1400	DSA Back Check and Final Approval		0d	0d	0d	0%	25-Sep-17	15d	◆ DSA Back Check and Final Approval																																				
A1150	Bid Phase	26-Sep-17	41d	0d	41d	0%	21-Nov-17	15d	■ Bid Phase																																				
A1170	Interim A/C Paving	15-Dec-17	20d	0d	20d	0%	16-Jan-18	0d	■ Interim A/C Paving																																				
A1160	Balance of A/C Paving	26-Mar-18	48d	0d	48d	0%	31-May-18	191d	■ Balance of A/C Paving																																				
Interim Village																																													
Design																																													
A1330	Design Programming	01-Mar-17 A	190d	107d	126d		31-Jan-18	34d	■ Design Programming																																				
A1331	District Programming Approval	05-May-17 A	9d	9d	0d	100%	17-May-17 A		■ District Programming Approval																																				
A1336	Lab Programming	17-May-17 A	20d	25d	0d	100%	21-Jun-17 A		■ Lab Programming																																				
A1200	Elite Contract Administration	18-May-17 A	42d	51d	9d	78.57%	11-Aug-17	10d	■ Elite Contract Administration																																				
A1411	Temp MPOE / Data Center and Tech Programming	22-Jun-17 A	15d	10d	0d	100%	07-Jul-17 A		■ Temp MPOE / Data Center and Tech Programming																																				
A1338	District Lab Programming Meetings and Approvals	22-Jun-17 A	5d	11d	0d	100%	07-Jul-17 A		■ District Lab Programming Meetings and Approvals																																				
A1214	Interim Site Data Requirements	22-Jun-17 A	15d	11d	0d	100%	07-Jul-17 A		■ Interim Site Data Requirements																																				
A1332	Interim Village Design Non-Labs (HMC)	23-Jun-17 A	9d	26d	4d	55.56%	04-Aug-17	0d	■ Interim Village Design Non-Labs (HMC)																																				
A1344	Order Interim Village IT Hardware		0d	0d	0d	100%	14-Jul-17 A		◆ Order Interim Village IT Hardware																																				
A1345	Procure Interim Village IT Hardware	17-Jul-17 A	120d	11d	104d	13.33%	29-Dec-17	56d	■ Procure Interim Village IT Hardware																																				
A1333	Interim Village Design (Elite)	07-Aug-17	24d	0d	24d	0%	08-Sep-17	6d	■ Interim Village Design (Elite)																																				
A1557	Interim Village Design - Labs (HMC)	07-Aug-17	30d	0d	30d	0%	18-Sep-17	0d	■ Interim Village Design - Labs (HMC)																																				
A1335	DSA Approval - Over the Counter	11-Sep-17	5d	0d	5d	0%	15-Sep-17	32d	■ DSA Approval - Over the Counter																																				
A1334	DSA Approval	19-Sep-17	31d	0d	31d	0%	31-Oct-17	0d	■ DSA Approval																																				
A1410	Release Interim Village Order (Elite)		0d	0d	0d	0%	31-Oct-17	0d	◆ Release Interim Village Order (Elite)																																				
A1420	Offsite Build-out Interim Village (Elite)	01-Nov-17	50d	0d	50d	0%	16-Jan-18	0d	■ Offsite Build-out Interim Village (Elite)																																				
A1343	DRHorton Sewer Lift Station Complete		0d	0d	0d	0%	31-Jan-18*	19d	◆ DRHorton Sewer Lift Station Complete																																				
FF&E																																													
A1337	District FF&E Design	07-Aug-17	139d	0d	139d		23-Feb-18	17d	■ District FF&E Design																																				
A1339	District FF&E Bid & Contracting	05-Oct-17	42d	0d	42d	0%	05-Dec-17	17d	■ District FF&E Bid & Contracting																																				
A1341	District FF&E Release Order		0d	0d	0d	0%	05-Dec-17	17d	◆ District FF&E Release Order																																				
A1342	District FF&E Procurement	06-Dec-17	55d	0d	55d	0%	23-Feb-18	17d	■ District FF&E Procurement																																				
Bid Period - Lab																																													
A1346	Bid Doc Distribution	19-Sep-17	32d	0d	32d		02-Nov-17	24d	■ Bid Doc Distribution																																				
A1347	Job Walk	26-Sep-17	1d	0d	1d	0%	26-Sep-17	24d	■ Job Walk																																				
A1348	Pre-Bid RFIs	27-Sep-17	3d	0d	3d	0%	29-Sep-17	24d	■ Pre-Bid RFIs																																				
A1349	Final Bid Clarification	02-Oct-17	5d	0d	5d	0%	06-Oct-17	24d	■ Final Bid Clarification																																				
A1553	Bids Due	10-Oct-17	0d	0d	0d	0%		24d	◆ Bids Due																																				
A1554	BBC Bid Review & Approval	11-Oct-17	15d	0d	15d	0%	31-Oct-17	24d	■ BBC Bid Review & Approval																																				
A1555	Board Approval	01-Nov-17	1d	0d	1d	0%	01-Nov-17	24d	■ Board Approval																																				
A1556	Issue NTP - Interim Village Lab Construction	02-Nov-17	0d	0d	0d	0%		24d	◆ Issue NTP - Interim Village Lab Construction																																				
Interim Village Construction																																													
A1282	Procure Lab Materials	02-Nov-17	124d	0d	124d		01-May-18	0d	■ Procure Lab Materials																																				

Start Date: 01-Feb-17
 Finish Date: 29-Oct-19
 Data Date: 01-Aug-17
 Print Date: 01-Aug-17 12:31

- Remaining Level of Effort ◆ Milestone
- Summary
- Actual Work
- Remaining Work
- Critical Remaining Work

Project ID: PALNEC02 08-1-17

Page: 3 of 4

Balfour Beatty Construction
Palomar CCD North Education Center
Preliminary Project Schedule - Draft No. 7
Updated as of August 1, 2017

BBC LT-C1			
Date	Revision	Checked	Approved

July 12, 2017

To: Chris Miller, Director of Facilities
Palomar Community College District
1140 W. Mission Road
San Marcos, CA 92069

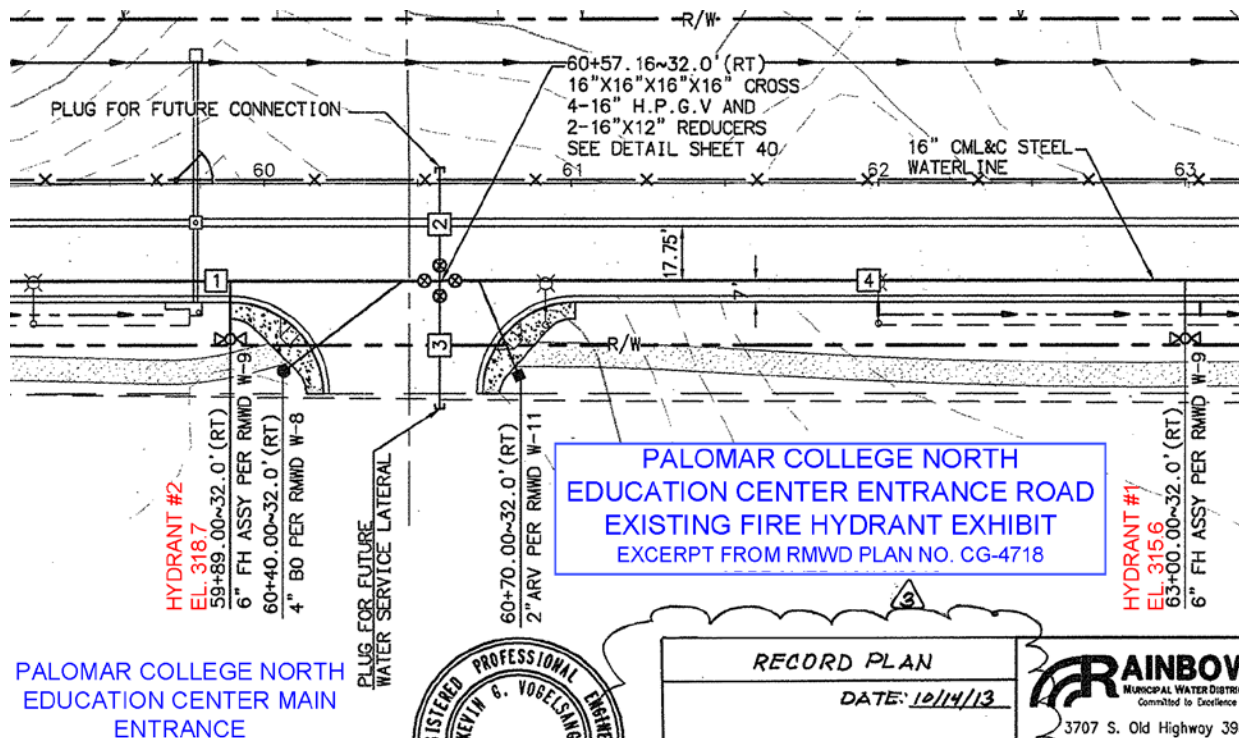
Subject: Fire Flow Test for Palomar College North Education Center

Dear Chris,

I am writing this letter to confirm that we witnessed the fire flow test conducted by J.G. Tate Fire Protection Systems, Inc., on July 10, 2017 at 01:30pm.

Per the attached report, and as shown on the below plan, we witnessed the pre-test static pressure at hydrant #2 of 132psi. During the test, the residual pressure at hydrant #2 dropped to 119psi. The residual flow at hydrant #1 was measured with a pitot at 100psi, and showed a calculated flow of 1,520gpm. Calculated at 20psi, the flow is 4,856gpm. The test was conducted on a 2.5" LPD 250 hydrant port.

As required by DSA Interpretation of Regulation A-25 "Design, Installation, and Maintenance of Automatic Fire Sprinkler Systems (AFSS)", Section 1.3, this test was witnessed by Patricia Koch, as representative of North County Fire Protection District, the Local Fire Authority.



If you require additional information, please contact me at your convenience at (760) 215-9218.

Respectfully Submitted,

Gerald Schafer, RCI
DSA Class 1 Project Inspector

BUILDING • ENGINEERING • PUBLIC WORKS • SPECIAL INSPECTIONS • SCHOOLS & RELOCATABLES

P.O. Box 2017, San Marcos, CA 92079

Office: (760) 742-2488 • Fax: (760) 742-2377 • email: inspector@aboutcis.com • Web: www.aboutcis.com



J.G. Tate Fire Protection Systems Inc.
13771 Danielson St., Ste F, Poway, CA 92064
858-486-0900 fax-858-486-0950
License #800609

July 12, 2017

Consulting & Inspection Services LLC
P.O. Box 2017
San Marcos, CA 92079

Attn: Gerald Schafer
Re: Fire Flow Test at Palomar College NEC Project

Dear Gerald,

On July 10, 2017 at 1:30pm, we conducted a fire hydrant flow test for the NEC project at Palomar College located at Horse Ranch Creek Rd. in Fallbrook CA. The test was witnessed by a representative from North County Fire Protection District and CIS with the following results:

Static Pressure: 132 psi
Residual Pressure: 119 psi
Pitot Reading: 100 psi
Orifice size: 2 ½" LPD 250
Flow: 1520 gpm
Flow calculated at 20 psi (res): 4856 gpm

The flowed and gauged hydrants were per your direction. The hydrants were at approximately the same elevation. Please do not hesitate to contact me if you have any questions or require any other services.

Regards,

Tom Meiss
Superintendent
J.G. Tate Fire Protection Systems, Inc.
858-486-0900 (o)
858-602-6780 (m)

CONTRACT NO. _____

NAME: PALOMAR COLLEGE NEC PROJECT

ADDRESS: HORSE RANCH CREEK RD., FAULBROOK, CA

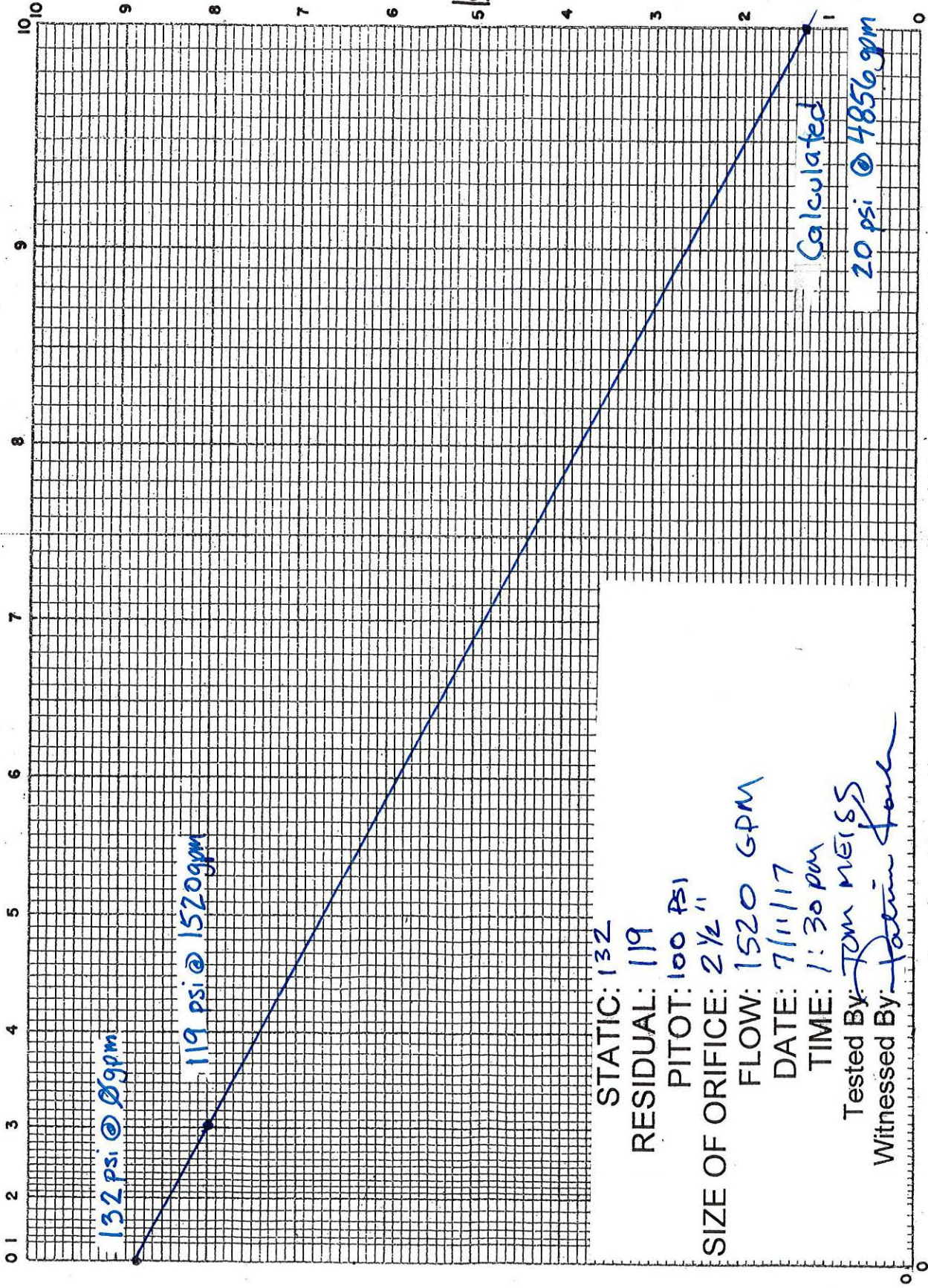
SHEET NO. 1 OF 1

SYSTEM NO. _____

DATE: 7/11/17

MULTIPLY SCALE BY 15

MULTIPLY SCALE BY 500
GPM



Calculated
20 psi @ 4856 gpm

STATIC: 132

RESIDUAL: 119

PITOT: 100 PSI

SIZE OF ORIFICE: 2 1/2"

FLOW: 1520 GPM

DATE: 7/11/17

TIME: 1:30 pm

Tested By: JRM MESS

Witnessed By: Patricia Fork

GPM