



Williamson County, Texas North Campus Facility

Vaughn Project No. 2213-01

3171 SE Inner Loop

Georgetown, Texas 78626

Guaranteed Maximum Price

Volume No. 1 of 1

October 3, 2016

VAUGHN
CONSTRUCTION



October 3, 2016

3920 North I.H. 35
Austin, Texas 78751

Williamson County, Texas
Williamson County Judge
710 Main Street, Suite 101
Georgetown, Texas 78626

Telephone:
(512) 318-1332

Facsimile:
(512) 681-9751

Attention: Judge Dan A. Gattis

Project: Williamson County North Campus Facility
Project No. 21504.00
Vaughn Project No. 2339

Re: Guaranteed Maximum Price Submittal

Judge Gattis:

We are pleased to submit for your review and approval our Guaranteed Maximum Price Submittal for the aforementioned project. This proposal submittal is in accordance with the required format. Three (3) originals are included.

Attached hereto, please find confirmation of the project team followed by the Table of Contents for the remainder of this proposal.

Please feel free to contact me if you have any questions or concerns.

Very Truly Yours,
VAUGHN CONSTRUCTION

A handwritten signature in blue ink, appearing to read "DBM", written over a white background.

Doug Boram

CC: 2339-01-File

Attachments:

**Williamson County
North Campus Facility
Georgetown, Texas**

**Project No. 21504.00
Vaughn Project No. 2339-01**

Guaranteed Maximum Price Submittal

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Tab #1

GUARANTEED MAXIMUM PRICE (GMP) PROPOSAL

Pursuant to the terms of the Agreement Between Owner and Construction Manager-at-Risk by and between Williamson County, Texas (the "Owner") and J.T. Vaughn Construction, LLC (the "Construction Manager"), dated effective December 17, 2015 (the "Agreement"), Construction Manager hereby submits to Owner the following Guaranteed Maximum Price (GMP) for the Williamson County North Campus Facility (the "Project", as defined in the Agreement), based on Plans and Specifications developed for the Project and dated July 14, 2016, as follows:

1. A not-to-exceed amount for the Cost of the Work (Base and Alternate No. 2 – Building b – Maintenance Building Additions) pursuant to the Agreement:

(\$18,195,395)

(In Numerals)

2. A not-to-exceed amount for the General Conditions Costs pursuant to the Agreement:

(\$1,445,818)

(In Numerals)

3. A not-to-exceed amount for the Insurance (Umbrella, GL, Auto, BR, and GC Bond) Costs pursuant to the Agreement:

(\$450,704)

(In Numerals)

4. A not-to-exceed amount for the Construction Manager's Contingency pursuant to the Agreement:

(\$406,771)

(In Numerals)

5. A not-to-exceed amount for the Owner's Contingency pursuant to the Agreement:

(\$406,771)

(In Numerals)

6. A lump sum amount for Construction Phase Fee, pursuant to the Agreement is:

(\$625,467)

(In Numerals)

7. TOTAL OF ITEMS 1 THROUGH 6

The total sum of Items 1-6 above is the Guaranteed Maximum Price (GMP) which the Construction Manager hereby guarantees to the Owner for constructing the Project complete in place and operational. All attached breakdowns shall total this GMP amount:

(\$21,530,927)

(In Numerals)

8. CONSTRUCTION TIME:

The Construction Manager agrees to complete all Work in the following number of calendar days from the Notice to Proceed:

(490 calendar days)

(In Numerals)

9. ALTERNATE PRICING:

A not-to-exceed amount for the Alternate No. 1 – Building a - Facilities Storage Shed pursuant to the Agreement:

(\$1,428,974)

(In Numerals)

A not-to-exceed amount for the Alternate No. 3 – Building c - Fuel Station pursuant to the Agreement:

(\$1,250,052)

(In Numerals)

A not-to-exceed amount for the Alternate No. 4 – Building f - Vehicle Storage Building pursuant to the Agreement:

(\$528,815)

(In Numerals)

A not-to-exceed amount for the Alternate No. 5 – Vehicle Storage Yard Paving pursuant to the Agreement:

(\$78,572)

(In Numerals)

A not-to-exceed amount for the Alternate No. 6 – Drive B Paving pursuant to the Agreement:

(\$136,212)

(In Numerals)

This GMP Proposal will not be withdrawn for a period of ninety (90) days from the date of receipt of this offer by the Owner.

The Construction Manager further agrees to pay, as Liquidated Damages, to Owner the sum of One Thousand dollars (\$1,000.00) per calendar day for failure to complete the work within the contracted time in accordance with the Agreement.

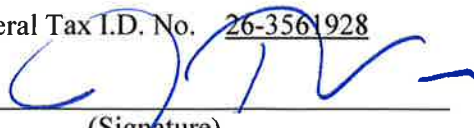
All terms and conditions of the Agreement are hereby adopted and incorporated into this GMP Proposal. Any exceptions to or modifications of the terms and conditions of the Agreement shall not be effective unless they are expressly stated and conspicuously identified in this GMP Proposal and are specifically accepted and approved by the Owner. Otherwise, proposed revisions or modifications to the language, terms or conditions of the Agreement will not be accepted.

BY SIGNING BELOW, Construction Manager and Owner have executed and bound themselves to this Guaranteed Maximum Price (GMP) Proposal.

CONSTRUCTION MANAGER:

J.T. VAUGHN CONSTRUCTION, LLC.

Federal Tax I.D. No. 26-3561928

By: 
(Signature)

J. Thomas Vaughn, CEO

OWNER:

WILLIAMSON COUNTY, TEXAS

By _____

Dan A Gattis
Williamson County Judge

Date _____, 20____

9. ALTERNATE PRICING:

A not-to-exceed amount for the Alternate No. 1 – Building a - Facilities Storage Shed pursuant to the Agreement:

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(In Numerals)

A not-to-exceed amount for the Alternate No. 3 – Building c - Fuel Station pursuant to the Agreement:

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(In Numerals)

A not-to-exceed amount for the Alternate No. 4 – Building f - Vehicle Storage Building pursuant to the Agreement:

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(In Numerals)

A not-to-exceed amount for the Alternate No. 5 – Vehicle Storage Yard Paving pursuant to the Agreement:

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(In Numerals)

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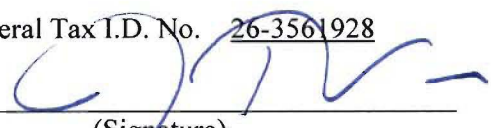
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CONSTRUCTION MANAGER:

J.T. VAUGHN CONSTRUCTION, LLC.

Federal Tax I.D. No. 26-3561928

By: 
(Signature)

J. Thomas Vaughn, CEO

OWNER:

WILLIAMSON COUNTY, TEXAS

By 
Dan A Gattis
Williamson County Judge

Date 10-19, 2016

(Print or Type Name)

Title/Representative Capacity:

Date 10/6, 2016

Name(s) of individual(s), sole proprietors,
partner(s), shareholder(s) or owner(s) with an
ownership interest of at least 25% of the
business entity executing this GMP Proposal.

Name: N/A
Name: _____
Name: _____
Name: _____

Tab #2

**Williamson County
North Campus Facility
Georgetown, Texas**

**Project No. 215004.00
Vaughn Project No. 2339-01**

Guaranteed Maximum Price Submittal

Executive Summary

Project Description:

The Williamson County North Campus Facility is located at 3189 & 3171 SE Inner Loop, Georgetown, TX 78626, adjacent to the existing Road and Bridge Facility.

Williamson County North Campus Facility project will include:

- An approximately 39,000 square foot EMS Training Center that will be comprised of approximately 5,000 SF of warehouse space, 8,250 SF of vehicle storage and 21,750 SF of offices and meeting rooms. The wet labs will allow EMS personnel to participate in lifelike simulations.
- An approximately 8,600 SF Wireless Communications Building that will be comprised of approximately 7,150 SF of vehicle storage and 3,850 SF of offices.
- An approximately 5,200 SF Vehicle Inspection Building that will contain two drive through bays for vehicle inspection, dismantling and investigations, two storage rooms with special ventilation and blast requirements due to the possible storage of hazardous materials, and office space.
- A new fueling station with new diesel and unleaded gas below ground storage tanks; the construction of new fuel distribution islands, and a canopy over distribution islands.
- A new 110' x 26' awning to be located on the south side of the existing Central Maintenance Facility.
- Two vehicle storage sheds, each housing 20 vehicles. These sheds are not climate controlled. They are to provide shade and power only. This will allow the county to store millions of dollars' worth of vehicles/equipment out of the harsh Texas weather.
- An approximately 100' x 110' facilities maintenance storage building
- A new impound yard with perimeter fence.
- The project also includes all utilities, drainage, parking, roadways, screen walls, landscaping and walkways necessary to complete the project.

Document Release Packages:

Vaughn Construction will release all the bid packages at once for this project. After proposals are received the bid packages will be divided into different evaluation books that will be presented to Williamson County for approval. Evaluation books will be submitted in order of importance to maintain the schedule. This will allow the project to execute the laborious effort of the project sitework and constructing the foundation of the buildings as early as possible. The site will be captured with construction fencing and the necessary storm water protection measures.

Schedule:

A full copy of the current project schedule is available for review under Tab 5 of this proposal book. The following is a brief summary of information documented within.

The schedule reflects receiving Construction Documents issued by BLGY on July 14, 2016. Receiving subcontractor proposals on August 23, 2016 and starting Construction on November 1, 2016.

The critical path for the project currently runs through the Earthwork, Site Utilities and skin of the EMS Training Center building to reach dry-in, which hinders the start of interior finishes until the proper weather protection can be achieved. This will require close coordination efforts by the entire project team to prevent and/or eliminate delays to this critical phase of the construction process.

Key Dates:

NTP w/ Construction Services – October 18, 2016
Start EMS Training Center Excavation of Building Pad – December 19, 2016
Start Wireless Comm. Building Excavation of Building Pad – January 6, 2017
Start Awning & Locker Room Additions and Renovation – February 3, 2016
Start Vehical Inspection Building Excavation of Building Pad - February 21, 2017
Vehical Inspection Building Substantial Completion - September 25, 2017
Wireless Comm. Building Substantial Completion - October 21, 2017
Awning & Locker Room Substantial Completion – July 3, 2017
EMS Training Center Substantial Completion – March 2, 2018

Alternates:

Current alternates are identified as:

- Alternate 1 - Building A Facilities Storage
- Alternate 2 - Building B Awning & Locker Room
- Alternate 3 - Area C Fueling
- Alternate 4 - Building F Vehicle Storage
- Alternate 5 - Vehicle Storage Yard Paving
- Alternate 6 - Drive B Paving

Tab #3

**Williamson County
North Campus Facility
Georgetown, Texas**

**Project No. 21504.00
Vaughn Project No. 2339-01**

Guaranteed Maximum Price Submittal

Staffing Plan – Project Team

Project Executive, Director of Operations – Michael Vaughn

Overall executive oversight of project execution.

Construction Director – Rodney Moore

Corporate oversight of all project operations, GMP oversight for the trade contractor award and procurement process. Provides document control, schedule, QA/QC, commissioning and safety oversight, and progress of construction.

General Superintendent – Bernie Edwards

Corporate oversight of all field operations, progress of construction, and allocation of field forces and trade manpower.

Corporate Safety Director – Rad Manning

Corporate oversight of implementation and execution of Vaughn's safety programs.

Project Superintendent – Stuart Baker

Daily onsite responsibility for field operations, coordination of trades, schedule compliance, deliveries, QA/QC, and safety. The Project Superintendent coordinates with Project Manager and Project Scheduler/Expeditor.

Director of Quality – Ken Cotie

Corporate oversight of Vaughn QA/QC, commissioning program, and associated manpower. Coordinates with the Project Managers, Superintendents, and QA/QC Inspectors

QA/QC – Paul Smith

Responsibilities include assisting the Owners representative in the verification of materials and installation of work during construction of the project.

Project Manager – Doug Boram

Daily onsite responsibility for project and GMP oversight for the trade contractor award and procurement process. Provides document control, schedule, QA/QC, commissioning and safety oversight. Coordinates with the Project Superintendent and the Project Engineer.

Assistant Project Manager – Thomas Morrill

Daily onsite responsibility for project documentation control including submittals, procurement, RFI's, changes, inspections, and commissioning documentation. Coordinates with the Project Manager

Project Engineer 2 – Camille Carpenter

Daily onsite responsibility for project documentation control including submittals, procurement, RFI's, changes, inspections, and commissioning documentation. Coordinates with the Project Manager

Tab #5

Exhibit "C"
List of Documents

1. Agreement executed the 17 th day of December 2015, between Williamson County, Texas (Owner) and J.T. Vaughn Construction, LLC (Contractor).
2. Specifications issued by BLGY, Inc. dated July 14th, 2016, entitled "Williamson County North Campus Facility"

<u>NUMBER</u>	<u>TITLE</u>	<u>PAGES</u>
<i>Project Manual Specifications - Volume 1</i>		
	Cover	
	Title Page	
	Project Manual Index	
	Drawing Index	
DIVISION 00 - PROCUREMENT & CONTRACTING REQUIREMENTS		
00 31 32	Geotechnical Data	1
00 43 43	Prevailing Wage Scale	1
00 61 13	Bonds	1
00 65 19	AIA Affidavit Forms G706; G706A & G707	4
00 73 00	Tax Exempt Status	1
DIVISION 01 - GENERAL REQUIREMENTS		
01 11 00	Summary of Work	4
01 21 00	Allowances	2
01 22 00	Unit Prices	2
01 23 00	Alternates	2
01 25 00	Products & Substitutions	7
01 29 00	Application for Payment	4
01 31 19	Project Meetings	3
01 33 00	Submittals	5
01 42 19	Reference Standards & Definitions	7
01 43 39	Mock-up Wall Construction	5
01 45 01	Cutting & Patching	3
01 45 29	Testing Laboratory Services	10
01 51 00	Temporary Facilities & Controls	7
01 77 00	Project Close-out	7
DIVISION 02 - EXISTING CONDITIONS		
02 41 19	Selective Building Demolition	4
DIVISION 03 - CONCRETE		
03 30 00	Cast-In-Place Concrete	27
DIVISION 04 - MASONRY		
04 20 00	Concrete Unit Masonry	13
04 27 23	Through Wall & Wall Substrate Flashing System	8

DIVISION 05 - METALS

05 12 00	Structural Steel	13
05 21 00	Steel Joist	7
05 31 00	Steel Deck	7
05 41 00	Structural Cold-Formed Metal Framing	4
05 50 00	Metal Fabrications	7

DIVISION 06 - WOODS, PLASTICS AND COMPOSITES

06 10 00	Roofing Carpentry	4
06 40 23	Interior Architectural Woodwork	9
06 61 00	Fiberglass Reinforced Plastics (FRP) Fabrications	5

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

07 17 00	Bentonite Waterproofing	2
07 21 00	Building Insulationn	4
07 22 16	Roof Insulation	3
07 25 00	Polyolefin Weather Barrier	2
07 27 26	Fluid-applied Membrane Air & Vapor Barriers	8
07 41 13	Metal Roof Panels R Panel Profile	7
07 42 13	Metal Wall Panels	4
07 54 19	Adhered PVC Roof System	9
07 61 13	Standing Seam Metal Roof System	9
07 62 00	Sheet Metal & Misc. Access. For R Panel Metal Roof System	5
07 62 13	Gutters & Downspouts	4
07 65 26	Self-adhering Sheet Flashing	2
07 72 00	Roof Accessories	5
07 84 00	Firestopping	4
07 92 00	Joint Sealants	6

DIVISION 08 - OPENINGS

08 11 13	Hollow Metal Doors & Frames	5
08 14 24	Plastic Faced Doors	4
08 31 00	Access Doors	2
08 33 23	Overhead Rolling Doors	6
08 36 13	Sectional Overhead Garage Doors	4
08 41 13	Aluminum Storefront & Entrances	6
08 51 13	Aluminum Windows	4
08 51 80	Aluminum Interior Sliding Service Window	2
08 71 00	Finish Hardware	21
08 81 00	Glass & Glazing	5
08 90 00	Louvers	4

Project Manual Specifications - Volume 2

Cover	1
Title Page	1
Specification Index	2

DIVISION 09 - FINISHES

09 21 13	Plaster	5
09 21 16	Gypsum Board Assemblies	12
09 30 00	Tile	5
09 51 13	Acoustical Ceilings	5
09 65 00	Resilient Flooring	4

09 67 25	Epoxy Floor Coating	3
09 68 13	Carpet Tile	5
09 72 16	Wall Covering Panels	4
09 77 20	Fiberglass Reinforced Wall Panels	3
09 81 14	Acoustical Fiberglass Wall Panels	2
09 91 00	Painting	11
09 96 56	Special Coating	4

DIVISION 10 - SPECIALTIES

10 14 00	Signage	4
10 21 13	Toilet Partitions	3
10 22 13	Wire Mesh Partitions	3
10 22 26	Folding Panel Partition	4
10 26 00	Wall Surface Protection	3
10 28 13	Toilet Accessories	3
10 44 13	Fire Extinguishers, Cabinets & Accessories	3
10 51 00	Lockers	3
10 56 29	Cantilever Storage Racks	2
10 75 16	Flagpole	3

DIVISION 11 - EQUIPMENT

11 13 00	Loading Dock & Industrial Equipment	2
11 30 13	Laundry Equipment	2
11 31 13	Appliances	3
11 70 00	Medical Equipment	1

DIVISION 12 - FURNISHINGS

12 21 00	Window Treatment	3
12 21 24	Motorized Roller Shades	4

DIVISION 13 - SPECIAL CONSTRUCTION

13 34 19	Pre-engineered Metal Building Systems	11
13 34 20	Fuel Station Canopy	6
11 31 13	Fuel Station	53
11 70 00	Existing UST Fuel Station Removal	20

DIVISION 14 - CONVEYING EQUIPMENT

14 24 23	Hydraulic Elevators	13
14 83 00	Vehicle Lifts	1

DIVISION 20 - SYSTEMS GENERAL CONDITIONS

20 00 00	General Provisions	23
20 01 00	Basic Materials & Methods	15
20 07 00	Insulation	13

DIVISION 21 - FIRE SUPPRESSION

21 00 00	Fire Protection	7
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DIVISION 22 - PLUMBING

22 00 00	Inside Utility Trench Excavation, Backfill & Compaction	3
22 02 00	Outside Utility Trench Excavation, Backfill & Compaction	3
22 11 16	Water Distribution System	3
22 11 17	Water Heaters	2

22 13 16	Liquid Waste Transfer	5
22 30 00	Plumbing Fixtures & Trim	5

DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING

23 05 93	Balancing & Testing	4
23 08 02	Contractor Start-up	15
23 09 00	Controls (Native BACNET)	21
23 11 23	Fuel Gas System (Natural)	3
23 30 00	Air Distribution	17
23 30 01	Special Duct Systems	5
23 30 03	Spiral Ductwork	5
23 54 00	Heaters	6
23 70 00	Mechanical Equipment D-X Systems	9
23 70 15	RTU/Variable Air Volume Unit Systems	6
23 70 46	Valent Outside Make-up Air Unit System with Wheel	8
23 81 19	Roof Equipment Screening System	3

DIVISION 26 - ELECTRICAL

26 05 00	General Provisions	26
26 05 10	Schedule of Values	2
26 05 19	Wire & Cable	5
26 05 26	Grounding & Bonding	5
26 05 26	Hanger & Supporting Devices	2
26 05 33	Raceways	7
26 05 34	Outlet Boxes, Pull Boxes, & Junction Boxes	4
26 05 80	Empty Raceway Rough-in	2
26 08 00	Electrical Start-up Record	3
26 22 13	High Efficiency K-7 Transformer DOE 2016	7
26 24 13	Main Switchboard	5
26 24 16	Branch Circuit Panel Boards	6
26 27 26	Devices	4
26 28 10	Manual Motor Starters	2
26 28 15	Safety Disconnect Switch	2
26 28 16	Fuses	2
26 28 20	Combination Motor Starters	4
26 28 25	Contactors	2
26 32 13	Emergency Power Systems (Generator)	6
26 43 00	Surge Protective Devices	3
26 51 00	Interior Lighting System	9
26 55 00	Relay Lighting Controls	6
26 56 00	Exterior Lighting Systems	2

DIVISION 27 - COMMUNICATIONS

27 00 00	General Technology Requirements	29
27 10 00	Communications Cabling General Requirements	7
27 11 00	Communications Equipment Rooms	10
27 12 00	Grounding Bonding for Technology Systems	8
27 13 00	Communications Backbone Cabling	37
27 15 00	Communications Horizontal Cabling	12
27 16 00	Communications Connecting Cords	3
27 17 00	CATV RF Distribution Systems	7
27 18 00	Communications Labeling & Identification	3
27 40 00	AV Multimedia General Requirements	10

27 41 00	Audio Visual Systems	17
27 60 00	Physical Security General Requirements	10
27 62 00	Video Surveillance System	26
27 64 00	Electronic Access Control System	17

DIVISION 28 - ELECTRONIC SAFETY & SECURITY

28 31 00	Fire Alarm System	19
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DIVISION 31 - EARTHWORK

31 31 16	Termite Control	3
31 63 29	Drilled Piers	8

DIVISION 32 - EXTERIOR IMPROVEMENTS

32 31 13	Fences & Gates	4
32 31 19	Ornamental Fences & Gates	4
32 84 00	Irrigation	14
32 84 00	Irrigation System	14
32 92 00	Turf & Grasses	10
32 93 00	Plants	17

3. Drawings issued by BLGY, Inc. dated July 14, 2015, entitled "North Campus Facility Williamson County"

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>	<u>DATE</u>
GENERAL		
G-1.00	General Information	8/15/2016
G-1.01	Wall Types	8/8/2016
G-1.02	Typical Wall Details	8/8/2016
G-1.03	Accessibility Standards	7/14/2016
G-1.04	Accessibility Standards	7/14/2016
G-1.05	Accessibility Standards	7/14/2016
G-1.06	Details	8/8/2016
G-1.07	General Waterproofing	8/15/2016
A-1.01	Overall Site Plan	7/14/2016
A-1.02	General Site Details	8/15/2016
ARCHITECTURAL		
<i>Building A - Facilities Storage - Add Alternate # 1</i>		
Aa-0.01	Building A Code Plan & Notes	7/14/2016
Aa-1.01	Building A Site Plan	8/8/2016
Aa-2.01	Building A Floor Plan	8/8/2016
Aa-2.02	Building A Roof Plan & Reflected Ceiling Plan	8/15/2016
Aa-5.01	Building A Building Sections	8/8/2016
Aa-6.01	Building A Wall Sections	8/8/2016
Aa-9.01	Building A Schedules	8/8/2016
<i>Building B - Maintenance Building Additions - Add Alternate # 2</i>		
Ab-0.01	Building B Code Plan & Notes	8/8/2016
Ab-1.01	Building B Site Plan	7/14/2016
Ab-2.01	Building B Demolition Plans & Elevations	7/14/2016
Ab-2.02	Building B Addition Plans	7/14/2016
Ab-3.01	Building B Roof & Ceiling Plan	8/8/2016
Ab-5.01	Building B Revised Exterior Elevations	7/14/2016

Ab-6.01	Building B Wall Sections	8/8/2016
Ab-6.02	Building B Wall Sections	8/8/2016
Ab-8.01	Building B Interior Elevations	8/8/2016
Ab-9.01	Building B Schedules	8/8/2016

Area C - Fuel Island - Add Alternate # 3

Ac-1.01	Fuel Island Site Plan	8/8/2016
Ac-1.02	Fuel Island Plans & Elevations	8/15/2016

Building D - Wireless Communications Building

Ad-0.01	Wireless Communication Building Code Plan	7/14/2016
Ad-1.01	Building D Site Plan	8/8/2016
Ad-2.01	Wireless Communication Building Floor Plan	8/15/2016
Ad-2.02	Wireless Communication Building Reflected Ceiling Plan	8/8/2016
Ad-2.03	Wireless Communication Building Roof Plan	8/8/2016
Ad-4.01	Wireless Communication Building Finsihes	7/14/2016
Ad-5.01	Wireless Communication Building Exterior Elevations	7/14/2016
Ad-5.02	Wireless Communication Building Sections	7/14/2016
Ad-6.01	Wireless Communication Building Wall Sections	8/15/2016
Ad-6.02	Wireless Communication Building Wall Sections	8/15/2016
Ad-8.01	Wireless Communication Building Interior Plans & Elevations	8/8/2016
Ad-8.02	Wireless Communication Building Interior Plans & Elevations	8/8/2016
Ac-8.03	Wireless Communication Building Interior Plans & Elevations	7/14/2016
Ad-9.01	Wireless Communication Building Schedules	7/14/2016
Ad-10.01	Wireless Communication Building Exterior Details	7/14/2016
Ad-10.02	Wireless Communication Building Exterior Details	8/8/2016
Ad-10.03	Wireless Communication Building Exterior Details	8/8/2016
Ad-11.01	Wireless Communication Building Interior Details	7/14/2016

Building E - Ems Training Vehicle Storage

Ae1.0.1	Building E Site Plan	7/14/2016
Ae-2.01	EMS Training Vehicle Storage Floor & Ceiling Plan	7/14/2016
Ae-2.02	EMS Training Vehicle Storage Roof Plan	7/14/2016
Ae-5.01	EMS Training Vehicle Storage Elevations	8/15/2016
Ae-5.02	EMS Training Vehicle Storage Building & Wall Sections	7/14/2016
Ae-10.01	EMS Training Vehicle Storage Building Details	8/8/2016

Building F - Vehicle Inspection Vehicle Storage - Add Alternate # 4

Af-1.01	Building F Site Plan	7/14/2016
Af-2.01	Vehicle Inspection Vehicle Storage Floor & Ceiling Plans	8/8/2016
Af-2.02	Vehicle Inspection Vehicle Storage Roof Plan	8/8/2016
Af-5.01	Vehicle Inspection Vehicle Storage Elevations	8/8/2016
Af-5.02	Vehicle Inspection Vehicle Storage Building & Wall Sections	8/8/2016
Af-10.01	Vehicle Inspection Vehicle Storage Details	8/8/2016

Building G - Vehicle Inspection Building

Ag-0.01	Vehicle Inspection Building Code Plan	7/14/2016
Ag-1.01	Building G Site Plan	7/14/2016
Ag-2.01	Vehicle Inspection Building Floor & Ceiling Plans	8/15/2016
Ag-2.02	Vehicle Inspection Building Roof Plan	8/15/2016
Ag-4.01	Vehicle Inspection Building Finishes	7/14/2016
Ag-5.01	Vehicle Inspection Building Exterior Elevations	8/15/2016
Ag-5.02	Vehicle Inspection Building Sections	8/15/2016
Ag-6.01	Vehicle Inspection Building Wall Sections	8/15/2016

Ag-6.02	Vehicle Inspection Building Wall Sections	8/8/2016
Ag-8.01	Vehicle Inspection Building Interior Plans & Elevations	8/8/2016
Ag-8.02	Vehicle Inspection Building Interior Plans & Elevations	7/14/2016
Ag-9.01	Vehicle Inspection Building Schedules	7/14/2016
Ag-10.01	Vehicle Inspection Building Exterior Details	7/14/2016
Ag-10.02	Vehicle Inspection Building Exterior Details	8/15/2016
Ag-10.03	Vehicle Inspection Building Exterior Details	8/8/2016
Ag-11.01	Vehicle Inspection Building Interior Details	7/14/2016

Building H - Ems Training And Vehicle Support Building

Ah-0.01	Building H 1st Floor Code Plans & Notes	7/14/2016
Ah-1.01	Building H Site Plan	7/14/2016
Ah-1.02	Building H Detail Site Plans	7/14/2016
Ah-1.03	Building H Sidewalk Grading Plan	7/14/2016
Ah-2.01	Building H 1st Floor Plan	8/8/2016
Ah-2.02	Building H 2nd Floor Plan	8/8/2016
Ah-2.03	Building H Roof Plan	8/8/2016
Ah-2.04	Building H Enlarged Plans	8/8/2016
Ah-3.01	Building H 1st Floor Reflected Ceiling Plan	8/15/2016
Ah-3.02	Building H 2nd Floor Reflected Ceiling Plan	8/8/2016
Ah-3.03	Enlarged Ceiling Plan	8/15/2016
Ah-4.01	Building H 1st Floor Reference Plan	8/8/2016
Ah-4.02	Building H 2nd Floor Reference Plan	8/15/2016
Ah-4.03	Building H Room Finish Schedule	8/15/2016
Ah-5.01	Building H Exterior Elevations	8/8/2016
Ah-5.02	Building H Exterior Elevations	8/8/2016
Ah-5.03	Building H Sections	8/8/2016
Ah-5.04	Building H Sections	8/8/2016
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Ah-5.06	Building H Sections	7/14/2016
Ah-6.01	Building H Wall Sections	7/14/2016
Ah-6.02	Building H Wall Sections	7/14/2016
Ah-6.03	Building H Wall Sections	7/14/2016
Ah-6.04	Building H Wall Sections	7/14/2016
Ah-6.05	Building H Wall Sections	7/14/2016
Ah-6.06	Building H Wall Sections	8/8/2016
Ah-6.07	Building H Wall Sections	8/8/2016
Ah-7.01	Building H Vertical Circulation	8/15/2016
Ah-7.02	Building H Vertical Circulation	8/15/2016
Ah-7.03	Building H Vertical Circulation Details	7/14/2016
Ah-8.01	Building H Interior Elevations & Details	8/8/2016
Ah-8.02	Building H Interior Elevations & Details	8/8/2016
Ah-9.01	Building H Schedules	8/8/2016
Ah-9.02	Building H Door Details	8/15/2016
Ah-10.01	Building H Exterior Details	8/8/2016
Ah-10.02	Building H Exterior Details	8/15/2016
Ah-10.03	Building H Exterior Details	8/15/2016
Ah-10.04	Building H Exterior Details	8/15/2016
Ah-10.05	Building H Exterior Details	8/8/2016
Ah-10.06	Building H Exterior Details	8/8/2016
Ah-10.07	Building H Exterior Details	8/8/2016
Ah-10.08	Building H Exterior Details	8/8/2016
Ah-11.01	Building H Interior Details	7/14/2016
Ah-11.02	Building H Interior Details	8/15/2016

Ah-11.03	Building H Interior Details	8/15/2016
Ah-11.04	Building H Interior Details	8/15/2016

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Ra1.01	Roof Plan Building A	8/8/2016
Ra2.01	Roofing Details	8/8/2016
Ra3.01	Cloaking Details	8/8/2016
Rb1.01	Roof Plan Building B	8/8/2016
Rb2.01	Roofing Details	8/8/2016
Rb3.01	Cloaking Details	8/8/2016
Rb3.02	Cloaking Details	8/8/2016
Rd1.01	Roof Plan Building D	8/8/2016
Rd2.01	Roofing Details	8/8/2016
Rd2.02	Roofing Details	8/8/2016
Rd3.01	Cloaking Details	8/8/2016
Rd3.02	Cloaking Details	8/8/2016
Re1.01	Roof Plan - EMS Training Storage Shed	8/8/2016
Re2.01	Roofing Details	8/8/2016
Rf1.01	Roof Plan - Vehicle Inspection Storage Shed	8/8/2016
Rf2.01	Roofing Details	8/8/2016
Rg1.01	Roof Plan - Vehicle Inspection Building	8/8/2016
Rg2.01	Roofing Details	8/8/2016
Rg2.02	Roofing Details	8/8/2016
Rg3.01	Cloaking Details	8/8/2016
Rg3.02	Cloaking Details	8/8/2016
Rh1.01	Overall Roof Plan - EMS Training Building	8/8/2016
Rh1.02	Partial Roof Plan - Area A EMS Training	8/8/2016
Rh1.03	Partial Roof Plan - Area B EMS Training	8/8/2016
Rh2.01	Roofing Details	8/8/2016
Rh2.02	Roofing Details	8/8/2016
Rh3.01	Cloaking Details	8/8/2016
Rh3.02	Cloaking Details	8/8/2016

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S-1.01	Structural Notes	7/14/2016
S-1.02	Structural Notes	7/14/2016
S-1.03	Special Inspection Tables	7/14/2016
S-3.01	Pier Schedule And Typical Concrete Details	7/14/2016
S-3.02	Typcial Concrete Foundation Details	7/14/2016
S-4.01	Typical CMU Details	7/14/2016
S-5.01	Typical Steel Details	7/14/2016
S-5.02	Typical Steel Details	7/14/2016
S-5.03	Typical Steel Details	7/14/2016
S-5.04	Typical Steel Details	7/14/2016
S-5.10	Brace Elevation And Details	8/8/2016
S-5.11	Typical Baseplate Details	7/14/2016
S-5.15	Baseplate Details	8/8/2016
S-5.16	Brace Frame Details	7/14/2016
S-5.17	Moment Frame Details	7/14/2016
Sa-2.01	Building A Foundation Plan	8/8/2016
Sa-3.03	Building A Concrete Details	8/15/2016
Sb-2.01	Building B Foundation Plan	8/8/2016
Sb-2.02	Building B Roof Framing Plan	7/14/2016
Sb-3.03	Building B Concrete Details	8/8/2016

Sb-5.04	Building B Steel Details	7/14/2016
Sd-2.01	Building D Foundation Plan	8/8/2016
Sd-2.02	Building D Roof Framing Plan	8/8/2016
Sd-3.03	Building D Concrete Details	8/8/2016
Se-2.01	Building E Foundation Plan	7/14/2016
Se-3.03	Building E Concrete Details	7/14/2016
Sf-2.01	Building F Foundation Plan	7/14/2016
Sf-3.03	Building F Concrete Details	7/14/2016
Sg-2.01	Building G Foundation Plan	8/8/2016
Sg-2.02	Building G Roof Framing Plan	7/14/2016
Sg-3.03	Building G Concrete Details	8/15/2016
Sh-2.01	Building H Foundation Plan	7/14/2016
Sh-2.02	Building H 2nd Floor Framing Plan	8/15/2016
Sh-2.03	Building H Roof Framing Plan	8/15/2016
Sh-3.03	Building H Concrete Details	7/14/2016
Sh-5.04	Building H Steel Details	8/8/2016

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M-1.01	Schedules, Notes And Legends - Mechanical	8/8/2016
M-1.02	Schedules - Mechanical	8/8/2016
M-1.03	Schedules - Mechanical	7/14/2016
M-1.04	Details - Mechanical	7/14/2016
M-1.05	Details - Mechanical	7/14/2016
M-1.06	Details - Mechanical	7/14/2016
M-1.07	Details - Mechanical	8/8/2016
M-1.08	Details - Mechanical	8/8/2016
Ma-2.01	Facilities Storage Shed Floor Plan - Mechanical	7/14/2016
Mb-2.01	Maintenance Building Addition - Floor Plan - Mechanical	7/14/2016
Md-2.01	Wireless Communications Building - Floor Plan - Mechanical	8/8/2016
Mg-2.01	Vehicle Inspection Building - Floor Plan - Mechanical	8/8/2016
Mh-2.01	EMS Training Building - 1st Floor Plan - Mechanical	7/14/2016
Mh-2.02	EMS Training Building - 2nd Floor Plan - Mechanical	7/14/2016
Mh-4.01	EMS Training Building - Mechanical Sections	7/14/2016

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P-1.01	Schedules, Notes And Legends - Plumbing	7/14/2016
P-1.02	Details - Plumbing	7/14/2016
P-1.03	Details - Plumbing	7/14/2016
Pa-2.01	Facilities Storage Shed - Floor Plan - Plumbing	7/14/2016
Pb-2.01	Maintenance Building Addition - Floor Plan - Plumbing	7/14/2016
Pd-2.01	Wireless Communications Building - Floor Plan - Plumbing	7/14/2016
Pg-2.01	Vehicle Inspection Building - Floor Plan - Plumbing	7/14/2016
Ph-2.01	EMS Training Building - 1st Floor Plan - Plumbing - Waste	7/14/2016
Ph-2.02	EMS Training Building - 2nd Floor Plan - Plumbing	7/14/2016
Ph-2.03	EMS Training Building - 1st Floor Plan - Plumbing Supply	8/8/2016
Ph-3.01	EMS Training Building - Gas Piping Plan - Plumbing	7/14/2016

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E-1.00	Site Plan - Electrical	7/14/2016
E-1.01	Schedules, Notes And Legends - Electrical	7/14/2016
E-1.02	Schedules - Electrical	7/14/2016
E-1.03	Riser Diagram - Electrical	7/14/2016
E-1.04	Details - Electrical	7/14/2016
E-1.05	Schedules - Electrical	7/14/2016

E-1.06	Schedules - Electrical	7/14/2016
E-1.07	Schedules - Electrical	7/14/2016
Ea-2.01	Facilities Storage Shed - Floor Plan - Lighting	8/8/2016
Ea-3.01	Facilities Storage Shed - Floor Plan - Power	7/14/2016
Eb-2.01	Maintenance Building Addition - Floor Plan - Electrical	7/14/2016
Eb-4.01	Maintenance Building Addition - Roof Plan - Electrical	7/14/2016
Ed-2.01	Wireless Communications Building - Floor Plan - Lighting	8/8/2016
Ed-3.01	Wireless Communications Building - Floor Plan - Power	8/8/2016
Ed-4.01	Wireless Communications Building - Roof Plan - Power	7/14/2016
Ee-2.01	EMS Training Vehicle Storage - Floor Plan - Electrical	7/14/2016
Ef-2.01	Vehicle Inspection Storage - Floor Plan - Electrical	8/8/2016
Eg-2.01	Vehicle Inspection Building - Floor Plan - Lighting	8/8/2016
Eg-3.01	Vehicle Inspection Building - Floor Plan - Power	8/8/2016
Eg-4.01	Vehicle Inspection Building - Roof Plan - Power	7/14/2016
Eh-2.01	EMS Training Building - 1st Floor Plan - Lighting	8/15/2016
Eh-2.02	EMS Training Building - 2nd Floor Plan - Lighting	7/14/2016
Eh-3.01	EMS Training Building - 1st Floor Plan - Power	8/8/2016
Eh-3.02	EMS Training Building - 2nd Floor Plan - Power	7/14/2016
Eh-4.01	EMS Training Building - Roof Plan - Power	7/14/2016

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FS-1.01	Site Map	8/8/2016
FS-1.02	Site Plan	8/8/2016
FS-1.03	Underground Storage Tank Details	8/8/2016
FS-1.04	Fuel Island Dimension Plan And Details	8/8/2016
FS-1.05	Details	8/8/2016
FS-1.06	Propane Tank Site Plan And Details	8/8/2016
FS-1.07	Demolition Plan	8/8/2016

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T010	Technology - Site Plan	8/15/2016
T400	Technology Enlargementss	7/14/2016
T500	Technology Details	7/14/2016
T501	Technology Details	7/14/2016
T502	Technology Details	7/14/2016
T503	Technology Details	7/14/2016
T504	Technology Details	7/14/2016
T505	Technology Details	7/14/2016
T506	Technology Details	7/14/2016
T507	Technology Details	7/14/2016
Ta-1.01	Technology - Storage Shed	7/14/2016
Tb-1.01	Technology - Maintenance Building	7/14/2016
Td-1.01	Technology - Wireless Communication Building	7/14/2016
Tg-1.01	Technology - Vehicle Inspection Building	7/14/2016
Th-1.01	Technology - EMS Training Building Level 1	7/14/2016
Th-1.02	Technology - EMS Training Building Level 2	7/14/2016

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I-1.01	EMS Training Building 1st Floor Plan	7/14/2016
I-1.02	EMS Training Building 2nd Floor Plan	7/14/2016
I-2.01	Wireless Communications Building Floor Plan	7/14/2016
I-3.01	Vehicle Inspection Building Flor Plan	7/14/2016

CIVIL

C-1	Cover Sheet	8/8/2016
C-2	General Notes	8/8/2016
C-3	Overall Site Plan	8/8/2016
C-4	Site Paving And Dimension Control Plan (1 Of 3)	8/8/2016
C-5	Site Paving And Dimension Control Plan (2 Of 3)	8/15/2016
C-6	Site Paving And Dimension Control Plan (3 Of 3)	8/15/2016
C-7	Typical Drive Sections	8/8/2016
C-8	Site And Paving Details (1 Of 2)	8/8/2016
C-9	Site And Paving Details (2 Of 2)	8/8/2016
C-10	Existing Conditions, Tree And Topographic Survey	7/14/2016
C-11	Tree Survey List	7/14/2016
C-12	Erosion And Sedimentation Control Plan	8/8/2016
C-13	Erosion And Sedimentation Control Details	7/14/2016
C-14	Overall Utility Plan	8/15/2016
C-15	Waterline Plan (1 Of 3)	8/8/2016
C-16	Waterline Plan (2 Of 3)	8/15/2016
C-17	Waterline Plan (3 Of 3)	8/8/2016
C-18	Wastewater Line A Plan And Profile Sta 1+00 To Sta 8+00	7/14/2016
C-19	Wastewater Line A Plan And Profile Sta 8+00 To End	7/14/2016
C-20	Wastewater Line B Plan And Profile Sta 1+00 To End	7/14/2016
C-21	Water Details	8/8/2016
C-22	Wastewater Details	7/14/2016
C-23	Dry Utility Plan	7/14/2016
C-24	Overall Grading And Drainage Plan	7/14/2016
C-25	Grading And Drainage Plan (1 Of 3)	7/14/2016
C-26	Grading And Drainage Plan (2 Of 3)	8/8/2016
C-27	Grading And Drainage Plan (3 Of 3)	7/14/2016
C-28	Grading And Drainage Details	7/14/2016
C-29	Existing Conditions Drainage Area Map	7/14/2016
C-30	Proposed Drainage Area Map	7/14/2016
C-31	Proposed Onsite Drainage Area Map	7/14/2016
C-32	Culvert And Ditch Calculations	7/14/2016
C-33	EMS Building Storm Sewer Plan	7/14/2016
C-34	North Pond Plan	8/8/2016
C-35	North Pond Sections And Details	8/8/2016
C-36	North Pond Spillway Structural Details	8/8/2016
C-37	East Pond Plan	7/14/2016
C-38	East Pond Sections And Details	7/14/2016
C-39	East Pond Structural Weir Details	7/14/2016
C-40	Traffic Control Plan Details 1 Of 3	7/14/2016
C-41	Traffic Control Plan Details 2 Of 3	7/14/2016
C-42	Traffic Control Plan Details 3 Of 3	7/14/2016

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L-100	Overall Landscape Plan	8/8/2016
L-101	Landscape Enlargement	7/14/2016
L-102	Landscape Enlargement	7/14/2016
L-103	Landscape Enlargement	7/14/2016
L-104	Landscape Enlargement	7/14/2016
L-105	Landscape Enlargement	7/14/2016
L-106	Landscape Enlargement	8/8/2016
La-107	Landscape Enlargement	8/8/2016
L-200	Landscape Details & Plant Schedule	8/8/2016

L-300	Overall Irrigation Plan	8/8/2016
L-301	Irrigation Plan	8/8/2016
L-302	Irrigation Plan	8/8/2016
L-303	Irrigation Plan	8/8/2016
L-304	Irrigation Plan	8/8/2016
L-305	Irrigation Plan	8/8/2016
La-306	Irrigation Plan	8/8/2016
L-307	Irrigation Plan	8/8/2016
L-308	Irrigation Notes & Details	8/8/2016

5. Addendum 01

Addendum No. 01 dated August 8th, 2016.

Addendum 02

Addendum No. 02 dated August 15th, 2016.

Addendum 03

Addendum No. 03 dated August 22nd, 2016.

6. Alternates

Not Applicable.

7. Other Documents

End of Exhibit "C"

Tab #5

QUALIFICATIONS & ASSUMPTIONS

Phase: GMP

Document Date: 10.3.2016

General Qualifications

1. Excludes a line item estimate; line items are only shown for convenience of review.
2. Assumes that every specification, either referenced by manufacturer or performance, is designed so that more than one manufacturer for each specification will be able to meet the design intent of the project, and that details shown in the contract documents will not preclude any manufacturer specified from participating in the proposal process. Excludes proprietary specifications.
3. Excludes 3rd party commissioning agent. Includes assistance for the commissioning agent to accomplish their work.
4. Assumes we can use permanent HVAC equipment for temporary air conditioning and climate control. Start-up for these activities will be considered a temporary start-up and not a commissioning activity. Includes changing of filters throughout construction activities as well as new filters at final start-up.
5. Excludes provisions for unusual, undocumented, or unanticipated subsurface conditions. We will make reasonable efforts to locate and protect any existing underground utilities and facilities, but cannot accept responsibility for damage, or the impacts from damage, to unknown, unforeseen, non-located, or incorrectly located underground utilities or facilities.
6. Excludes the excavation or transportation of hazardous materials discovered in unforeseen conditions. Excludes the excavation, removal or transportation of unclassified excavation that may be uncovered, including but not limited to concrete foundations, underground fuel or water storage tanks, masonry underground walls, hidden sampling wells.
7. Includes a \$25,000 allowance for testing laboratory services.
8. Excludes 3rd party environmental (i.e. asbestos, lead, mold, etc.) monitoring.
9. Assumes work during normal work hours Monday through Friday, 7:00AM to 3:30PM, and intermittent weekend work as required.
10. Excludes building code changes, life safety code changes, or other regulatory changes that may occur beyond what is currently designed.

11. Excludes all municipal utility fees, water impact, or sewage fees.
12. Assumes that the building transformer will be provided and installed by the utility company. We will provide service into the building.
13. Assumes that the gas utility company will bring the gas service to the gas meter provided by the utility company.
14. Assumes equipment provided by Owner or others, but connected by our subcontractors, will be delivered and set in place at the required time to meet schedule.
15. Assumes complete use of the construction site.
16. Assumes we have access to contingency funds for the use of acceleration of the project schedule at any time for any critical activity with Owner's approval.
17. Assumes the right for Vaughn to purchase and manage a project specific Contractor Controlled Insurance Program within the cost parameters of the estimate.
18. Excludes provisions for, or any impacts from, any errors or omissions in the contract documents prepared and/or issued by the Owner, Owner's vendors/separate contracts, Architect, Engineer, Consultant, or similar party.
19. Excludes the design of building envelope weather-tight details not included in the project plans or specifications unless it has been specifically indicated to be Contractor's responsibility for "delegated design".
20. Excludes exterior envelope ASTM E1105 field testing over 67% of manufacturer's design rating except for mock-up testing as specified.
21. Excludes the design of life safety components, equipment, or system details or layout not included in the project plans or specifications unless it has been specifically indicated to be Contractor's responsibility for "delegated design".
22. Excludes ACI-certified flatwork technician and finisher requirements. Resumes of concrete finishing supervisor will be provided documenting experience with projects of like scope.
23. Excludes provisions for the new OSHA regulations related to crystalline silica. It will be some time in order to determine the impacts and accepted industry application of these regulations.
24. Excluded scopes:
 - a. Active IT Equipment
 - b. Audio Visual Equipment – Our GMP includes projection screens, TV brackets, LCD's, and speakers as outlined in the contract documents.
 - c. Fixtures, Furnishings, and Furniture – As it pertains to loose furniture typically supplied and installed by others. We have included provisions for

the I-beam cantilever rack storage shelving that was previously assumed to be by others.

25. Alternate No. 2 - Building b Maintenance Building Addition and Renovations.
- a. Excludes modifications to the existing to remain mechanical, electrical, and plumbing services beyond the limits of construction.
 - b. Excludes existing roof warranties beyond the limits of construction.
 - c. Excludes remediation of existing asbestos, lead, mold, etc.

03.00 – Concrete Turnkey

Spec Section 03 30 00, 31 63 29

1. Assumes slabs will be cured through the use of a spray applied curing compound as specified.

04.01 – Masonry

Spec Section 04 20 00

1. Excludes masonry screen wall at property limits as previously shown at schematic design. It has been discussed and determined that this will not be required.

06.02 – Architectural Millwork

Spec Section 06 40 23

1. Assumes mock-up as specified will be incorporated into final build.

07.02 – Insulation

Spec Section 07 21 00

1. Excludes applied fire proofing systems including spray applied or intumescent. There is no indication that this will be required.

07.03 – Roofing

Spec Section 07 22 16, 07 25 00, 07 41 13, 07 54 19, 07 61 13, 07 62 00, 07 62 13, 07 72 00

1. Excludes FM Global insurance requirements other than fasteners

08.01 – Hollow Metal

Spec Section 08 11 13

1. Excludes grouted frames except at CMU walls and exterior locations.

08.05 – Plastic Laminate Doors

Spec Section 08 14 24

1. Includes PLAM doors at Wireless Communications and Vehicle Inspection Buildings. Doors marked “WD” at EMS Training are assumed PLAM.

08.28 – Glass & Glazing

Spec Section 08 41 13, 08 51 13, 08 51 80, 08 81 00

1. Excludes ballistic-rated and art glass. We have included provisions for acoustical glass at wet rooms only.

09.02 – Drywall/Ceilings

Spec Section 05 41 00, 06 61 00, 09 21 16

1. Excludes seismic requirements as there has been no direction that provisions will be required.
2. Assumes that a suspended gypsum ceiling grid will be an acceptable alternative to conventional metal stud framing for interior and exterior gypsum ceilings.

09.03 – Tile

Spec Section 09 30 00

1. Assumes liquid applied waterproofing membrane at all new tiles floors at restrooms and wet areas.
2. Assumes epoxy grout at floor tile locations only.

10.01 – Visual Display Boards

Spec Section

1. Excludes providing or installing tack boards or writing surfaces. These are assumed OFOI.

10.16 – Storage Shelving

Spec Section 10 56 29

1. Storage shelving has been included as where it was previously assumed to be OFOI.

11.08 – Residential Appliances

Spec Section 11 23 00, 11 31 00

Includes provisions to provide and install refrigerators and ice makers.

11.12 – Vehicle Service Equipment

Spec Section 14 83 00

1. Includes the following vehicle service equipment only
 1. 4 post lift (2-way drive) – 2 ea. – Assumes above ground, drive-on lifting system similar to Rotary model SM300EL3 w/ a capacity of 30,000 lbs.

2. Air compressors – Allowance - \$8,000
3. Cord reels – Allowance - \$5,000

21.01 – Fire Protection

Spec Section

1. Excludes provision of a fire pump

22.01 – Plumbing

Spec Section – Division 22 - Plumbing

1. Excludes domestic water booster pump. Assumes all storm and waste piping under slab or structure to be PVC.
2. Excludes grease traps. The grease trap has now been indicated to be provided in the “future.”
3. Excludes solar hot water heating.
4. Excludes heat tracing for under slab piping.
5. Excludes oil minder system for hydraulic elevator discharge.
6. Excludes rainwater collection and/or cisterns.

23.01 – HVAC

Spec Section – Division 23 – Heating, Ventilating, and Air Conditioning

1. All ductwork testing will be 4” for high pressure duct and 2” for medium pressure duct.
2. Assumes the last six feet of ductwork will be flex duct where allowed by code.

26.01 – Electrical

Spec Section – Division 26 – Electrical, 28 31 00

1. Excludes UPS system.
2. Excludes lightning protection systems.
3. Assumes that underground telecommunication pathway will consist of 2 – 4” conduit with 4” maxcell innerduct.

31.01 – Earthwork

Spec Section – Division 31 - Earthwork

1. Assumes excavated material to be stored on site.
2. Assumes stripped topsoil will be reused onsite in landscaped areas or stockpiled onsite for future use.

32.08 – Landscaping

Spec Section 32 84 00, 32 90 00

1. Excludes tying into or upgrading existing irrigation systems.
2. Includes 12 month plant maintenance period as specified.

3. Includes 60 day sod maintenance period as specified.
4. Includes 4" of topsoil at Bermuda sod and hydromulched areas.

33.01 – Site Utilities

Spec Section 33 46 00

Storm Sewer

1. Excludes lift stations.
1. Excludes any paving removal or patch back outside of construction limits.
2. Excludes rock excavation beyond as outlined in the Geotech Report.
3. Excludes boring of storm lines.

Sanitary Sewer

1. Excludes lift stations.
2. Excludes rock excavation beyond as outlined in the Geotech Report.
3. Excludes acid-neutralization basins.
4. Excludes any paving removal or patch back outside of construction limits
5. Excludes boring of sanitary lines.

Water Utilities

1. Assumes an average depth not to exceed 5' below final grade.
2. Excludes rock excavation beyond as outlined in the Geotech Report.

Tab #6

Williamson County - North Campus Facility

Georgetown, Texas
GMP

10/4/2016

Prepared By:
Vaughn Construction
Vaughn Team - TT

Total Cost of Work - See Attached Detail		\$18,195,395
General Conditions		\$1,445,818
Design Contingency	0.00%	\$0
CM Contingency	2.24%	\$406,771
Owner's Contingency	2.24%	\$406,771
Escalation	0.00%	\$0
Permit		By Others
Umbrella, GL, and Auto Insurance		\$276,042
Builder's Risk Insurance		\$30,500
Special Insurance		Not Included
Owner's Protective Insurance		Excluded
Association Fees		Incl. in GCs
Sales Tax		In Cost of Work
GC Bond		\$144,162
Sub Bonds		In Cost of Work
Fee	3.4375%	\$625,467
TOTAL		\$21,530,927 *

* Please see attached clarifications, qualifications, and exclusions to the Estimate.

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
Type: GMP

Est Date: 08/29/2016
Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost	\$/sqft
SITE/CIVIL IMPROVEMENTS					
03.00 - CONCRETE TURNKEY				715,226	
10.07 - FLAGPOLES					
26.01 - ELECTRICAL				301,715	
27.01 - TELECOM/DATA				114,400	
31.01 - EARTHWORK				957,030	
32.01 - ASPHALT				358,643	
32.13 - LANDSCAPE & IRRIGATION				835,088	
32.14 - STRIPING & SIGNS				5,000	
33.01 - SITE UTILITIES				501,274	
* Total SITE/CIVIL IMPROVEMENTS				3,788,376	
WIRELESS COMMUNICATION SHOP					
03.00 - CONCRETE TURNKEY				194,986	
04.01 - MASONRY				108,209	
05.01 - STEEL FABRICATION				66,710	
05.02 - STEEL ERECTION				6,088	
05.06 - PRE-ENGINEERED METAL BUILDING				60,972	
05.07 - PRE-ENGINEERED METAL BUILDING ERECTI				35,126	
06.02 - ARCHITECTURAL WOODWORK/MILLWORK/TRIM				10,099	
06.06 - ROUGH CARPENTRY				5,140	
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALA				41,491	
07.02 - INSULATION				15,312	
07.03 - ROOFING				72,852	
07.05 - METAL ROOF & WALL PANELS				37,610	
07.07 - ROOF ACCESSORIES				704	
08.01 - HOLLOW METAL				8,274	
08.05 - PLASTIC LAMINATE DOORS				3,600	
08.10 - OVERHEAD DOORS/COILING GRILLS				83,650	
08.28 - GLASS & GLAZING				30,991	
08.34 - FINISH HARDWARE				16,120	
08.38 - DOOR & HARDWARE INSTALLATION				8,748	
09.02 - DRYWALL				145,032	
09.03 - TILE				24,529	
09.07 - CARPET, VINYL FLOORING, & BASE				16,802	
09.12 - PAINTING				72,755	
09.16 - CONCRETE SEALER				13,713	
10.03 - TOILET COMPARTMENTS				5,256	
10.05 - WALL PROTECTION				1,306	
10.08 - SIGNAGE				4,375	
10.10 - FIRE PROTECTION SPECIALTIES				249	
10.11 - ALUMINUM COVERS & AWNINGS				10,816	
10.17 - TOILET ACCESSORIES				5,058	
11.08 - RESIDENTIAL APPLIANCES				689	
11.12 - VEHICLE SERVICE EQUIPMENT				11,388	
11.14 - MISCELLANEOUS EQUIPMENT VENDOR				3,400	
11.16 - TV BRACKETS				551	
12.05 - BLINDS AND SHADES				4,420	
21.01 - FIRE PROTECTION				26,400	
22.01 - PLUMBING				147,231	
23.01 - HVAC				160,497	
26.01 - ELECTRICAL				340,177	
27.01 - TELECOM/DATA				15,066	
28.01 - SECURITY				34,200	
31.01 - EARTHWORK				228,396	
31.05 - SOIL TREATMENT				1,536	
32.01 - ASPHALT				51,997	
32.07 - FENCES & GATES				56,180	
32.14 - STRIPING & SIGNS				840	
33.01 - SITE UTILITIES				52,625	
* Total WIRELESS COMMUNICATION SHOP	9,600.00	SF	233.56	2,242,165	
EMS STORAGE SHED					
03.00 - CONCRETE TURNKEY				131,783	
04.01 - MASONRY				37,539	
05.01 - STEEL FABRICATION				2,640	
05.02 - STEEL ERECTION				2,113	
05.06 - PRE-ENGINEERED METAL BUILDING				67,000	
05.07 - PRE-ENGINEERED METAL BUILDING ERECTI				46,900	
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALA				2,089	
09.12 - PAINTING				1,500	
10.08 - SIGNAGE					
26.01 - ELECTRICAL				116,442	
27.01 - TELECOM/DATA					
28.01 - SECURITY					
31.01 - EARTHWORK				183,686	
31.05 - SOIL TREATMENT				1,200	
32.01 - ASPHALT				38,911	
* Total EMS STORAGE SHED	7,500.00	SF	84.24	631,803	
EMS TRAINING BUILDING					
01.84 - MOCKUPS				29,519	
03.00 - CONCRETE TURNKEY				475,893	
04.01 - MASONRY				258,714	
05.01 - STEEL FABRICATION				646,233	
05.02 - STEEL ERECTION				245,140	
06.02 - ARCHITECTURAL WOODWORK/MILLWORK/TRIM				72,303	
06.06 - ROUGH CARPENTRY				19,306	
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALA				123,209	
07.02 - INSULATION				37,893	

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
Type: GMP

Est Date: 08/29/2016
Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost	\$/sqft
07.03 - ROOFING				367,960	
07.05 - METAL ROOF & WALL PANELS				271,211	
07.07 - ROOF ACCESSORIES					
08.01 - HOLLOW METAL				65,823	
08.05 - PLASTIC LAMINATE DOORS				17,100	
08.10 - OVERHEAD DOORS/COILING GRILLS				8,275	
08.15 - AUTOMATIC DOORS					
08.28 - GLASS & GLAZING				205,290	
08.34 - FINISH HARDWARE				89,985	
08.38 - DOOR & HARDWARE INSTALLATION				46,396	
09.01 - PLASTER				76,638	
09.02 - DRYWALL				990,418	
09.03 - TILE				94,971	
09.07 - CARPET, VINYL FLOORING, & BASE				118,569	
09.10 - EPOXY FLOORING				33,478	
09.12 - PAINTING				333,111	
09.16 - CONCRETE SEALER				14,557	
10.02 - PROJECTION SCREENS				5,209	
10.03 - TOILET COMPARTMENTS				21,968	
10.04 - LOUVERS					
10.05 - WALL PROTECTION				18,647	
10.07 - FLAGPOLES				5,025	
10.08 - SIGNAGE				19,142	
10.10 - FIRE PROTECTION SPECIALTIES				1,244	
10.11 - ALUMINUM COVERS & AWNINGS				18,200	
10.13 - WIRE MESH PARTITIONS				7,093	
10.14 - OPERABLE PARTITIONS				68,260	
10.16 - STORAGE SHELVING				114,692	
10.17 - TOILET ACCESSORIES				18,293	
11.08 - RESIDENTIAL APPLIANCES				7,316	
11.14 - MISCELLANEOUS EQUIPMENT VENDOR				4,909	
11.16 - TV BRACKETS				3,672	
12.04 - FLOOR MATS AND FRAMES					
12.05 - BLINDS AND SHADES				23,300	
14.01 - ELEVATORS				66,250	
21.01 - FIRE PROTECTION				120,150	
22.01 - PLUMBING				338,343	
23.01 - HVAC				885,114	
26.01 - ELECTRICAL				1,207,476	
27.01 - TELECOM/DATA				76,221	
28.01 - SECURITY				82,750	
31.01 - EARTHWORK				515,356	
31.05 - SOIL TREATMENT				4,640	
32.01 - ASPHALT				161,019	
32.07 - FENCES & GATES				83,770	
32.14 - STRIPING & SIGNS				6,950	
33.01 - SITE UTILITIES				275,614	
* Total EMS TRAINING BUILDING	37,000.00	SF	237.91	8,802,613	

VEHICLE INSPECTION BUILDING

03.00 - CONCRETE TURNKEY				199,263	
04.01 - MASONRY				149,613	
05.01 - STEEL FABRICATION				48,826	
05.02 - STEEL ERECTION				5,818	
05.06 - PRE-ENGINEERED METAL BUILDING				46,000	
05.07 - PRE-ENGINEERED METAL BUILDING ERECTI				20,700	
06.02 - ARCHITECTURAL WOODWORK/MILLWORK/TRIM				5,649	
06.06 - ROUGH CARPENTRY				832	
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALA				37,087	
07.02 - INSULATION				20,088	
07.03 - ROOFING				48,342	
07.05 - METAL ROOF & WALL PANELS				32,520	
08.01 - HOLLOW METAL				9,744	
08.05 - PLASTIC LAMINATE DOORS				1,350	
08.10 - OVERHEAD DOORS/COILING GRILLS				47,800	
08.28 - GLASS & GLAZING				20,665	
08.34 - FINISH HARDWARE				13,640	
08.38 - DOOR & HARDWARE INSTALLATION				7,975	
09.02 - DRYWALL				25,700	
09.03 - TILE				11,304	
09.07 - CARPET, VINYL FLOORING, & BASE				7,511	
09.12 - PAINTING				27,446	
09.16 - CONCRETE SEALER				10,792	
10.04 - LOUVERS				1,890	
10.05 - WALL PROTECTION				1,306	
10.08 - SIGNAGE				3,625	
10.10 - FIRE PROTECTION SPECIALTIES				249	
10.17 - TOILET ACCESSORIES				2,148	
11.12 - VEHICLE SERVICE EQUIPMENT				11,388	
11.14 - MISCELLANEOUS EQUIPMENT VENDOR				3,400	
12.05 - BLINDS AND SHADES				1,500	
21.01 - FIRE PROTECTION				14,575	
22.01 - PLUMBING				88,868	
23.01 - HVAC				175,894	
26.01 - ELECTRICAL				255,152	
27.01 - TELECOM/DATA				13,041	
28.01 - SECURITY				34,300	
31.01 - EARTHWORK				358,698	
31.05 - SOIL TREATMENT				848	
32.01 - ASPHALT				94,509	
32.07 - FENCES & GATES				78,023	
32.14 - STRIPING & SIGNS				15,665	

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
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Est Date: 08/29/2016
Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost	\$/sqft
33.01 - SITE UTILITIES				37,544	
* Total VEHICLE INSPECTION BUILDING	5,300.00	SF	375.72	1,991,290	
ALT#2 - MAINTENANCE BUILDING EXPANSION					
02.01 - REMOVALS				7,729	
03.00 - CONCRETE TURNKEY				76,058	
04.01 - MASONRY				39,575	
05.01 - STEEL FABRICATION				84,994	
05.02 - STEEL ERECTION				33,407	
06.06 - ROUGH CARPENTRY				1,490	
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALA				14,495	
07.02 - INSULATION				4,882	
07.03 - ROOFING				44,239	
07.05 - METAL ROOF & WALL PANELS				4,533	
08.01 - HOLLOW METAL				5,082	
08.10 - OVERHEAD DOORS/COILING GRILLS				7,120	
08.28 - GLASS & GLAZING				3,460	
08.34 - FINISH HARDWARE				4,960	
08.38 - DOOR & HARDWARE INSTALLATION				2,743	
09.02 - DRYWALL				14,805	
09.03 - TILE				321	
09.07 - CARPET, VINYL FLOORING, & BASE				264	
09.12 - PAINTING				19,632	
09.16 - CONCRETE SEALER				429	
10.03 - TOILET COMPARTMENTS				3,570	
10.08 - SIGNAGE				875	
10.09 - LOCKERS				8,625	
10.17 - TOILET ACCESSORIES				4,877	
21.01 - FIRE PROTECTION				13,175	
22.01 - PLUMBING				58,761	
23.01 - HVAC				27,500	
26.01 - ELECTRICAL				46,346	
27.01 - TELECOM/DATA				1,016	
28.01 - SECURITY				17,000	
31.01 - EARTHWORK				86,291	
31.05 - SOIL TREATMENT				96	
32.01 - ASPHALT				50,828	
32.13 - LANDSCAPE & IRRIGATION				39,915	
33.01 - SITE UTILITIES				10,057	
* Total ALT#2 - MAINTENANCE BUILDING EXPANSI	600.00	SF	1,231.91	739,148	
Total Gross Cost				18,195,395	

Williamson County - North Campus Facility

Loc: Georgetown, Texas
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Description	Quantity	UM	Tot.UnitCost	TotalCost
01.84 - MOCKUPS				29,519
02.01 - REMOVALS				7,729
03.00 - CONCRETE TURNKEY				1,793,208
04.01 - MASONRY				593,649
05.01 - STEEL FABRICATION				849,403
05.02 - STEEL ERECTION				292,566
05.06 - PRE-ENGINEERED METAL BUILDING				173,972
05.07 - PRE-ENGINEERED METAL BUILDING ERECTIO				102,726
06.02 - ARCHITECTURAL WOODWORK/MILLWORK/TRIM				88,051
06.06 - ROUGH CARPENTRY				26,768
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALAN				218,371
07.02 - INSULATION				78,176
07.03 - ROOFING				533,393
07.05 - METAL ROOF & WALL PANELS				345,874
07.07 - ROOF ACCESSORIES				704
08.01 - HOLLOW METAL				88,923
08.05 - PLASTIC LAMINATE DOORS				22,050
08.10 - OVERHEAD DOORS/COILING GRILLS				146,845
08.15 - AUTOMATIC DOORS				
08.28 - GLASS & GLAZING				260,406
08.34 - FINISH HARDWARE				124,705
08.38 - DOOR & HARDWARE INSTALLATION				65,862
09.01 - PLASTER				76,638
09.02 - DRYWALL				1,175,954
09.03 - TILE				131,126
09.07 - CARPET, VINYL FLOORING, & BASE				143,147
09.10 - EPOXY FLOORING				33,478
09.12 - PAINTING				454,444
09.16 - CONCRETE SEALER				39,491
10.02 - PROJECTION SCREENS				5,209
10.03 - TOILET COMPARTMENTS				30,793
10.04 - LOUVERS				1,890
10.05 - WALL PROTECTION				21,259
10.07 - FLAGPOLES				5,025
10.08 - SIGNAGE				28,017
10.09 - LOCKERS				8,625
10.10 - FIRE PROTECTION SPECIALTIES				1,742
10.11 - ALUMINUM COVERS & AWNINGS				29,016
10.13 - WIRE MESH PARTITIONS				7,093
10.14 - OPERABLE PARTITIONS				68,260
10.16 - STORAGE SHELVING				114,692
10.17 - TOILET ACCESSORIES				30,376
11.08 - RESIDENTIAL APPLIANCES				8,004
11.12 - VEHICLE SERVICE EQUIPMENT				22,776
11.14 - MISCELLANEOUS EQUIPMENT VENDOR				11,709
11.16 - TV BRACKETS				4,223
12.04 - FLOOR MATS AND FRAMES				
12.05 - BLINDS AND SHADES				29,220
14.01 - ELEVATORS				66,250
21.01 - FIRE PROTECTION				174,300
22.01 - PLUMBING				633,203
23.01 - HVAC				1,249,004
26.01 - ELECTRICAL				2,267,308
27.01 - TELECOM/DATA				219,744
28.01 - SECURITY				168,250
31.01 - EARTHWORK				2,329,457
31.05 - SOIL TREATMENT				8,320
32.01 - ASPHALT				755,907
32.07 - FENCES & GATES				217,973
32.13 - LANDSCAPE & IRRIGATION				875,003
32.14 - STRIPING & SIGNS				28,455
33.01 - SITE UTILITIES				877,114
Total Gross Cost				18,195,395

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
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Est Date: 08/29/2016
Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost
SITE/CIVIL IMPROVEMENTS				
03.00 - CONCRETE TURNKEY				
Site Concrete				
8" CONCRETE PAVING	13,900.00	SF	5.65	78,535
5" SIDEWALKS	12,000.00	SF	6.50	78,000
DRIVE "A" SIDEWALKS	5,825.00	SF	6.50	37,863
LOOP ROAD - SIDEWALKS	11,310.00	SF	6.50	73,515
CURB & GUTTER	2,283.00	LF	25.00	57,075
RIBBON CURB	9,742.00	LF	18.00	175,356
SITE - POLE BASES	24.00	EA	750.00	18,000
PILOT CHANNEL - 5'-0" WIDE	1,713.00	LF	48.00	82,224
PILOT CHANNEL - 2'-0" WIDE	1,254.00	LF	27.00	33,858
WEIR STRUCTURE SLAB	1,500.00	SF	28.25	42,375
WEIR STRUCTURE WALLS	125.00	LF	123.00	15,375
WEIR CURB	50.00	LF	54.00	2,700
LANDSCAPE CONCRETE EDGE	215.00	LF	25.50	5,483
DUMPSTER WALL FOOTINGS	40.00	LF	133.00	5,320
SPILLWAY WEIR SLAB	285.00	SF	33.50	9,548
*** Total Site Concrete				715,226
** Total 03.00 - CONCRETE TURNKEY				715,226
10.07 - FLAGPOLES				
Flagpoles Scope Items				
FOUNDATIONS INCLUDING EXCAVATION & CONCRETE TO 40'-50' HIGH POLES - EXCLUDED PER 09/13 MTG		EA	1,300.00	
*** Total Flagpoles Scope Items				
** Total 10.07 - FLAGPOLES				
26.01 - ELECTRICAL				
Site Electrical Ductbank				
SITE DUCT BANK - TELECOM - INTRA- BUILDING	2,079.00	LF	115.00	239,085
SITE DUCT BANK CONCRETE - TELECOM	354.00	CY	80.00	28,320
SITE ELECTRICAL HAND HOLES - TELECOM	4.00	EA	3,500.00	14,000
HAUL OFF DUCT BANK SPOILS	431.00	TCY	10.00	4,310
*** Total Site Electrical Ductbank				285,715
Light Poles & Standards				
LIGHT POLES - ONE ARM	3.00	EA	3,000.00	9,000
LIGHT POLES - TWO ARM	2.00	EA	3,500.00	7,000
*** Total Light Poles & Standards				16,000
** Total 26.01 - ELECTRICAL				301,715
27.01 - TELECOM/DATA				
Backbone				
BACKBONE CABLING - SITE	2,080.00	LF	55.00	114,400
*** Total Backbone				114,400
** Total 27.01 - TELECOM/DATA				114,400
31.01 - EARTHWORK				
Stripping				
STRIPPING - SITE	34,233.00	TCY	1.78	61,060
HAUL OFF STRIPPING MATERIALS (SPREAD ONSITE)	34,233.00	TCY	2.51	85,908
*** Total Stripping				146,968
Paving Cut/Fill				
IMPORT MATERIALS - PAVING SELECT FILL	3,935.00	TCY	15.06	59,250
CUT FOR SITE PAVING	298.00	TCY	2.87	855
FILL FOR SITE PAVING	3,935.00	TCY	1.48	5,832
*** Total Paving Cut/Fill				65,937
Landscape Cut/Fill				
IMPORT MATERIALS - LANDSCAPE (USE DETENTION POND SPOILS)	19,266.00	TCY	2.51	48,348
CUT FOR LANDSCAPE	11,921.00	TCY	0.98	11,666
FILL FOR LANDSCAPE	31,225.00	TCY	0.93	29,161
*** Total Landscape Cut/Fill				89,175
Detention Pond Cut/Fill				

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
CUT/FILL FOR EAST DETENTION	32,885.00	TCY	1.48	48,671
CUT/FILL FOR NORTH DETENTION	6,751.00	TCY	1.44	9,734
STOCKPILE MATERIALS - DETENTION	28,662.00	TCY	2.51	71,927
*** Total Detention Pond Cut/Fill				130,333
Misc. Site Cut/Fill				
BACKFILL CURBS (CREW & MATERIAL)	1,300.00	TCY	6.84	8,897
*** Total Misc. Site Cut/Fill				8,897
Base Materials				
PLACE 18-24" THICK RIPRAP	310.00	TON	5.88	1,824
PLACE 3" OF WASHED RIVER GRAVEL	1,800.00	TON	5.07	9,118
PLACE 12" LIMESTONE BASE	6,454.00	TON	2.83	18,235
PLACE 6" OF LIMESTONE BASE	3,516.00	TON	2.59	9,117
PURCHASE RIPRAP	310.00	TON	62.74	19,449
PURCHASE SELECT FILL	3,500.00	TCY	15.06	52,700
PURCHASE LIMESTONE BASE	9,970.00	TON	15.06	150,119
PURCHASE WASHED RIVER GRAVEL	1,800.00	TON	37.64	67,757
*** Total Base Materials				328,319
Lime Stabilization				
STABILIZE SUBGRADE - ASPHALT SUBGRADE	7,245.00	SYD	2.00	14,488
STABILIZE SUBGRADE - ASPHALT SUBGRADE	3,512.00	SYD	4.13	14,488
STABILIZE SUBGRADE - CONCRETE SUBGRADE	389.00	SYD	7.45	2,898
BLUE TOP / CUT TO GRADE - ASPHALT SUBGRADE	65,200.00	SF	0.06	3,693
BLUE TOP / CUT TO GRADE - ASPHALT SUBGRADE	31,600.00	SF	0.18	5,541
BLUE TOP / CUT TO GRADE - CONCRETE SUBGRADE	3,500.00	SF	0.53	1,846
PURCHASE LIME	201.00	TON	200.76	40,353
FUEL FOR STABILIZATION	5.00	WK	2,456.73	12,284
CALCULATION - 36LBS PER SY x SY / 2000 = TONS	1.00	SCOPE		
*** Total Lime Stabilization				95,590
Topsoil				
SPREAD TOPSOIL FROM STOCKPILED MATERIAL	25,285.00	TCY	1.12	28,358
HAUL FROM STOCKPILE	25,285.00	TCY	2.51	63,453
*** Total Topsoil				91,811
** Total 31.01 - EARTHWORK				957,030
32.01 - ASPHALT				
Asphalt Paving				
ASPHALT PAVING - 2" TYPE D	200,500.00	SF	1.60	320,800
ASPHALT PAVING - 2" TYPE D OVERLAY AND SEALCOAT	23,652.00	SF	1.60	37,843
*** Total Asphalt Paving				358,643
** Total 32.01 - ASPHALT				358,643
32.13 - LANDSCAPE & IRRIGATION				
Irrigation Systems				
PERMANENT AND TEMP IRRIGATION SYSTEM	1.00	LS	155,000.00	155,000
*** Total Irrigation Systems				155,000
Trees				
CEDAR ELM - 65 GALLON	22.00	EA	550.00	12,100
LACEY OAK - 65 GALLON	13.00	EA	610.00	7,930
LIVE OAK - 65 GALLON	44.00	EA	610.00	26,840
BUR OAK - 65 GALLON	6.00	EA	550.00	3,300
PECAN - 65 GALLON	14.00	EA	550.00	7,700
MOUNTAIN LAUREL - 15 GALLON	19.00	EA	310.00	5,890
TREE YAUPON - 15 GALLON	37.00	EA	310.00	11,470
*** Total Trees				75,230
Plants & Shrubs				
BIG MUHLY GRASS - 3 GAL	115.00	EA	23.00	2,645
GULF MUHLY GRASS - 3 GAL	58.00	EA	23.00	1,334
SOFT LEAF YUCCA - 3 GAL	28.00	EA	23.00	644
MEXICAN FEATHER GRASS - 1 GALLON	110.00	EA	15.00	1,650

Williamson County - North Campus Facility

Loc: Georgetown, Texas

Est Date: 08/29/2016

Project Size: 0 sqft

Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
RUSSIAN SAGE - 1 GALLON	14.00	EA	15.00	210
GOLDEN THRYALLIS - 5 GALLON	79.00	EA	22.00	1,738
SPINELESS PRCKLY PEAR - 5 GALLON	22.00	EA	22.00	484
TEXAS SAGE - 5 GALLON	146.00	EA	22.00	3,212
YELLOW BELLS - 5 GALLON	9.00	EA	22.00	198
*** Total Plants & Shrubs				12,115
Lawns & Grasses				
BERMUDA SOD	2,777.00	SF	0.80	2,222
HYDROMULCH SAHARA GRASS	102,330.00	SY	1.20	122,796
*** Total Lawns & Grasses				125,018
Plant Accessories				
STEEL EDGING	1,945.00	LF	4.20	8,169
DECOMPOSED GRANITE	743.00	SF	4.00	2,972
GRANITE BOULDERS	23.00	EA	250.00	5,750
GRANITE GRAVEL	3,299.00	SF	2.85	9,402
GRANITE GRAVEL	8,191.00	SF	4.00	32,764
LARGE GRANITE BOULDER	11.00	EA	75.00	825
TREE STAKING	155.00	EA	150.00	23,250
*** Total Plant Accessories				83,132
Topsoil				
SPREAD TOPSOIL - LABOR ONLY	11,256.00	BCY	9.50	106,985
PROVIDE TOPSOIL - MATERIAL ONLY	11,256.00	BCY	18.00	202,608
*** Total Topsoil				309,593
Landscaping Scope Items				
LANDSCAPE MAINTENANCE	12.00	MO	6,250.00	75,000
*** Total Landscaping Scope Items				75,000
** Total 32.13 - LANDSCAPE & IRRIGATION				835,088
32.14 - STRIPING & SIGNS				
Misc. Signs				
MISCELLANEOUS SIGNS WITH POSTS	25.00	EA	200.00	5,000
*** Total Misc. Signs				5,000
** Total 32.14 - STRIPING & SIGNS				5,000
33.01 - SITE UTILITIES				
Water Piping				
C900 WATER LINE - 8" - UPDATED PER 09/13 MTG	2,700.00	LF	13.00	35,088
MJ TEE - 8"	5.00	EA	1,299.57	6,498
INSTALL WATER LINE PIPE - UPDATED PER 09/13 MTG	2,700.00	LF	11.73	31,675
THRUST BLOCKS	5.00	CY	159.28	796
BANK SAND	1,420.00	TCY	13.94	19,791
*** Total Water Piping				93,849
Water Distribution Equipment				
GATE VALVE & BOX - 2"	1.00	EA	447.98	448
GATE VALVE & BOX - 8"	6.00	EA	1,194.62	7,168
TAPPING SADDLE - 8" X 2"	1.00	EA	1,592.83	1,593
TAPPING SLEEVE - 10" X 8"	1.00	EA	4,977.60	4,978
TAPPING SLEEVE - 16" X 8"	1.00	EA	4,977.60	4,978
*** Total Water Distribution Equipment				19,164
Meters				
WATER METER - 4" - UPDATED PER 09/13 MTG	2.00	EA	20,000.00	40,000
ELSTER FIRE WATER METER & VAULT- 6" - UPDATED PER 09/13 MTG		EA	24,888.00	
WATER METER - 1.5 - UPDATED PER 09/13 MTG	1.00	EA		
*** Total Meters				40,000
Fire Line Distribution Equipment				
FIRE HYDRANT	2.00	EA	4,479.84	8,960
GATE VALVE & BOX - 6"	2.00	EA	846.19	1,692
*** Total Fire Line Distribution Equipment				10,652
Testing & Disinfection				
DISINFECTION OF WATER PIPING	1.00	SCOPE		
HYDROSTATIC TESTING OF WATER PIPING	1.00	SCOPE		
*** Total Testing & Disinfection				

Williamson County - North Campus Facility

Loc: Georgetown, Texas

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Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
Sanitary Piping				
PVC SDR 26 - 4" - UPDATED PER 09/13 MTG	788.00	LF	6.75	5,319
PVC SDR 26 - 6" - UPDATED PER 09/13 MTG	320.00	LF	7.96	2,549
PVC SDR 26 - 8" - UPDATED PER 09/13 MTG	1,850.00	LF	9.96	18,417
INSTALL SANTIARY PIPE	2,958.00	LF	13.30	39,338
CEMENT STABILIZED BACKFILL	2,072.00	TONS	16.80	34,810
*** Total Sanitary Piping				100,432
Sanitary Structures				
MANHOLE - 4' PRECAST 8' DEEP	7.00	EA	398.21	2,787
TIE IN	1.00	EA	2,916.81	2,917
SAND/OIL/WATER SEPARATOR BY PLUMBER	1.00	EA		
*** Total Sanitary Structures				5,704
Storm Drainage Piping				
RCP - 18" - UPDATED PER 09/13 MTG	645.00	LF	46.78	30,176
RCP - 24" - UPDATED PER 09/13 MTG	645.00	LF	61.08	39,397
RCP - 30" - UPDATED PER 09/13 MTG		LF	105.27	
INSTALL STORM PIPE 24" - 42"	1,290.00	LF	17.24	22,238
CEMENT STABILIZED BACKFILL	2,000.00	TONS	24.89	49,776
*** Total Storm Drainage Piping				141,587
Storm Inlets and Manholes				
CURB INLET - PRECAST 6' DEEP	2.00	EA	1,194.62	2,389
MANHOLE - PRECAST 6' DEEP	1.00	EA	2,488.80	2,489
*** Total Storm Inlets and Manholes				4,878
Storm Drainage Structures				
PRE CAST CONCRETE HEADWALL 30" - UPDATED PER 09/13 MTG		EA	2,703.54	
PRE CAST CONCRETE HEADWALL 4-24" (LARGE CAST INPLACE)	2.00	EA	6,743.82	13,488
PRE CAST CONCRETE HEADWALL 18" - UPDATED PER 09/13 MTG	6.00	EA	2,918.28	17,510
PRE CAST CONCRETE HEADWALL 24" - UPDATED PER 09/13 MTG	3.00	EA	2,918.28	8,755
*** Total Storm Drainage Structures				39,752
Boring with Casing				
CASING SPACERS	27.00	EA	298.66	8,064
*** Total Boring with Casing				8,064
Miscellaneous Utilities				
HAUL STORM SPOILS	1,536.00	TCY	6.97	10,702
HAUL SANITARY SPOILS	1,670.00	TCY	6.89	11,503
HAUL WATER SPOILS	1,420.00	TCY	7.05	10,010
VIDEO TEST OF UTILITY LINES	1.00	LS	4,977.60	4,978
*** Total Miscellaneous Utilities				37,192
** Total 33.01 - SITE UTILITIES				501,274
* Total SITE/CIVIL IMPROVEMENTS				3,788,376

Williamson County - North Campus Facility

Loc: Georgetown, Texas

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Description	Quantity	UM	Tot.UnitCost	TotalCost
WIRELESS COMMUNICATION SHOP				
03.00 - CONCRETE TURNKEY				
Building Concrete				
WIRELESS COMMUNICATIONS SHOP - GRADE BEAMS	1,052.00	LF	120.00	126,240
WIRELESS COMMUNICATIONS SHOP - SLAB ON GRADE	9,580.00	SF	6.55	62,749
WIRELESS COMMUNICATIONS SHOP - MEP PADS	51.00	SF	43.00	2,193
WIRELESS COMMUNICATIONS SHOP - BOLLARDS	12.00	EA	317.00	3,804
*** Total Building Concrete				194,986
** Total 03.00 - CONCRETE TURNKEY				194,986
04.01 - MASONRY				
Reinforcing Steel				
MASONRY REBAR	3.00	TON	1,200.00	3,600
*** Total Reinforcing Steel				3,600
Concrete Masonry Units (CMU)				
CMU - 4" SPLIT FACED COLOR VENEER	685.00	SF	11.00	7,535
CMU - 4" VENEER	2,707.00	SF	11.00	29,777
CMU - 8" SCREEN WALL	210.00	SF	11.45	2,405
CMU - 12" GROUT FILL @ 48" O.C.	1,182.00	SF	15.00	17,730
CMU - 8" BACKUP WALL TO EXTERIOR MASONRY	2,707.00	SF	11.45	30,995
*** Total Concrete Masonry Units (CMU)				88,442
Cast Stone				
CAST STONE PARAPET CAP	30.00	LF	53.50	1,605
*** Total Cast Stone				1,605
Masonry Scaffolding				
SCAFFOLDING FOR EXTERIOR MASONRY	7,281.00	SF	2.00	14,562
*** Total Masonry Scaffolding				14,562
Masonry Scope Items				
8'X10' KNOCKOUT PANEL	1.00	SCOPE		
*** Total Masonry Scope Items				108,209
** Total 04.01 - MASONRY				108,209
05.01 - STEEL FABRICATION				
Steel Fabrication Budget				
MISC INTERIOR STEEL - 0.5 LB/SF	2.60	TONS	2,900.00	7,540
COILING DOOR SUPPORTS	8.00	EA	500.00	4,000
*** Total Steel Fabrication Budget				11,540
Steel Fabrication				
COLUMNS - HSS TUBES	1.00	TON	2,900.00	2,900
BEAMS - W SHAPES	7.00	TON	2,900.00	20,300
*** Total Steel Fabrication				23,200
Joist				
JOISTS	4.00	TONS	2,900.00	11,600
*** Total Joist				11,600
Decking				
ROOF DECK	56.00	SQS	160.00	8,960
*** Total Decking				8,960
Masonry Supports				
MASONRY LINTELS	119.00	LF	70.00	8,330
*** Total Masonry Supports				8,330
Overhead Support Framing				
PIPE BOLLARDS - UPDATED PER 09/13 MTG	28.00	EA	110.00	3,080
*** Total Overhead Support Framing				3,080
** Total 05.01 - STEEL FABRICATION				66,710
05.02 - STEEL ERECTION				
Masonry Lintels				

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
MASONRY RELIEF LINTELS	119.00	LF	30.44	3,623
*** Total Masonry Lintels				3,623
Misc. Steel Erection				
PIPE BOLLARDS - UPDATED PER 09/13 MTG	28.00	EA	88.05	2,465
*** Total Misc. Steel Erection				2,465
** Total 05.02 - STEEL ERECTION				6,088
05.06 - PRE-ENGINEERED METAL BUILDING				
Pre-Engineered Metal Building				
PRE-ENGINEERED METAL BUILDING	5,081.00	SF	12.00	60,972
ROOF INSULATION PROVIDED (BASED ON 3.5", UNFACED)		INCL	1.50	
*** Total Pre-Engineered Metal Building				60,972
** Total 05.06 - PRE-ENGINEERED METAL BUILDING				60,972
05.07 - PRE-ENGINEERED METAL BUILDING ERECTION				
Pre-Engineered Metal Building Erection				
ERECT PRE-ENGINEERED METAL BUILDING	5,018.00	SF	7.00	35,126
*** Total Pre-Engineered Metal Building Erect				35,126
** Total 05.07 - PRE-ENGINEERED METAL BUILDING				35,126
06.02 - ARCHITECTURAL WOODWORK/MILLWORK/TRIM				
Plastic Laminate Cabinetry				
LOWER PLAM CABINETS @ BREAKROOM	10.00	LF	225.00	2,250
UPPER PLAM CABINETS	13.00	LF	160.00	2,080
*** Total Plastic Laminate Cabinetry				4,330
Plastic Laminate Shelving				
P-LAM SHELVING @ CLOSET	9.00	LF	25.00	225
*** Total Plastic Laminate Shelving				225
Solid Surface Fabrications				
SOLID SURFACE COUNTER TOP @ RECEPTION	8.00	LF	168.00	1,344
SOLID SURFACE COUNTER TOP WITH BACK SPLASH @ BREAKROOM	13.00	LF	168.00	2,184
SOLID SURFACE RESTROOM VANITY	12.00	LF	168.00	2,016
*** Total Solid Surface Fabrications				5,544
** Total 06.02 - ARCHITECTURAL WOODWORK/MILLWORK				10,099
06.06 - ROUGH CARPENTRY				
Roof Blocking				
ROOF BLOCKING - PLYWOOD SHEATHING - 1/2"	175.00	SF	2.54	444
ROOF BLOCKING - 2 x 8 TREATED WOOD BLOCKING	736.00	LF	3.81	2,802
ROOF BLOCKING - 4 x 4 CUT TO CANT TREATED WOOD BLOCKING	228.00	LF	5.76	1,314
*** Total Roof Blocking				4,560
Millwork Blocking				
MILLWORK - 2 x 6 FIRE TREATED WOOD BLOCKING	70.00	LF	4.11	287
*** Total Millwork Blocking				287
Toilet Accessory Blocking				
TOILET ACCESSORY - 2 x 4 FIRE TREATED WOOD BLOCKING	78.00	LF	3.76	293
*** Total Toilet Accessory Blocking				293
** Total 06.06 - ROUGH CARPENTRY				5,140
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALANTS				
PVC Flashings				
BASE LAP FLASHING @ CMU	342.00	LF	5.00	1,710
40 MIL SELF ADHERED TO 12" @ OPENINGS	681.00	LF	5.00	3,405
*** Total PVC Flashings				5,115
Aluminum Flashings				
ALUMINUM COUNTER FLASHING @ METAL PANEL	200.00	LF	6.50	1,300
*** Total Aluminum Flashings				1,300

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
Water Repellents				
FLUID APPLIED VAPOR AND AIR BARRIER	6,928.00	SF	4.55	31,522
*** Total Water Repellents				31,522
Building Facade Joint Sealants				
JOINT SEALANTS - CMU TO METAL PANEL	181.00	LF	2.60	471
JOINT SEALANTS BUILDING TO SIDEWALK	333.00	LF	2.60	866
VERTICAL JOINT SEALANTS @ CMU	497.00	LF	2.60	1,292
JOINT SEALANT @ EXTERIOR DOORS	8.00	EA	25.00	200
JOINT SEALANT @ WINDOWS	35.00	EA	20.00	700
JOINT SEALANT @ LOUVERS	1.00	EA	25.00	25
*** Total Building Facade Joint Sealants				3,554
** Total 07.01 - WATERPROOF / DAMPPROOF / JOI				41,491
07.02 - INSULATION				
Rigid Insulation				
RIGID INSULATION - MASONRY	4,403.00	SF	2.89	12,725
*** Total Rigid Insulation				12,725
Insulation Batts				
VINYL FACED BATT INSULATION @ DECK - BY PEMB PROVIDER		SF	1.15	
VINYL FACED BATT INSULATION @ WALLS	2,250.00	SF	1.15	2,588
*** Total Insulation Batts				2,588
** Total 07.02 - INSULATION				15,312
07.03 - ROOFING				
Gutters & Downspouts				
GUTTER - 8" GALVANIZED	156.00	LF	8.00	1,248
DOWNSPOUT - 6" GALVANIZED	72.00	LF	7.00	504
*** Total Gutters & Downspouts				1,752
Membrane Roofing				
PVC MEMBRANE ROOF -80 MIL FULLY ADHERED - UPDATED PER 09/13 MTG	5,112.00	SF	9.52	48,666
*** Total Membrane Roofing				48,666
Roof Insulation				
POLYISOCYURATE - TAPERED FOR DRAINAGE	5,112.00	SF	3.00	15,336
*** Total Roof Insulation				15,336
Gutters & Downspouts				
PARAPET CAP / COPING - 12" WIDE	231.00	LF	12.00	2,772
*** Total Gutters & Downspouts				2,772
Roof Flashings				
GALVALUME FLASHING	626.00	LF	6.00	3,756
SADDLE FLASHING & THERMOPLASTIC BOOTS @ WALL RISER (NEW ADDENDUM DETAILS)	2.00	EA	35.00	70
SCUPPER - ALUMINUM	5.00	EA	100.00	500
*** Total Roof Flashings				4,326
** Total 07.03 - ROOFING				72,852
07.05 - METAL ROOF & WALL PANELS				
Metal Wall Panels				
METAL WALL PANELS	1,350.00	SF	20.00	27,000
METAL WALL PANELS @ AWNINGS	253.00	SF	20.00	5,060
SCAFFOLDING FOR EXTERIOR WALL PANELS	1,350.00	SF	1.00	1,350
METAL WALL PANELS - SCREEN WALL	140.00	SF	30.00	4,200
*** Total Metal Wall Panels				37,610
** Total 07.05 - METAL ROOF & WALL PANELS				37,610
07.07 - ROOF ACCESSORIES				
Roof Hatches				
ROOF HATCH - 3x3	1.00	EA	550.00	550
*** Total Roof Hatches				550
Install Roof Hatches				
INSTALL ROOF HATCHES - 3x3	1.00	EA	154.36	154
*** Total Install Roof Hatches				154

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Description	Quantity	UM	Tot.UnitCost	TotalCost
** Total 07.07 - ROOF ACCESSORIES				704
08.01 - HOLLOW METAL				
Door Frames				
3070 HOLLOW METAL FRAME	22.00	EA	149.00	3,278
6070 HOLLOW METAL FRAME	4.00	EA	194.00	776
*** Total Door Frames				4,054
Window Frames				
TYPE E - HOLLOW METAL INT WINDOW FRAME - 4'x4'	2.00	EA	160.00	320
*** Total Window Frames				320
Doors				
3070 HOLLOW METAL DOOR	13.00	EA	300.00	3,900
*** Total Doors				3,900
** Total 08.01 - HOLLOW METAL				8,274
08.05 - PLASTIC LAMINATE DOORS				
Solid Core Plam Doors				
3070 PLASTIC LAMINATE DOOR - SOLID CORE - TYPES F, FF & N	16.00	EA	225.00	3,600
*** Total Solid Core Plam Doors				3,600
** Total 08.05 - PLASTIC LAMINATE DOORS				3,600
08.10 - OVERHEAD DOORS/COILING GRILLS				
Overhead Doors				
INSULATED OVERHEAD COILING DOOR- 12x18 - UPDATED PER 09/13 MTG	7.00	EA	10,500.00	73,500
PREMIUM FOR MOTOR OPERATIONS OVER 14x14	7.00	EA	1,450.00	10,150
*** Total Overhead Doors				83,650
** Total 08.10 - OVERHEAD DOORS/COILING GRILL				83,650
08.28 - GLASS & GLAZING				
Aluminum Windows				
TYPE C - 3'-04" x 6'-08" SINGLE HUNG WINDOW	4.00	EA	1,800.00	7,200
TYPE A - 3' x 5' SINGLE HUNG WINDOW	8.00	EA	1,500.00	12,000
TYPE B - 2' x 5'-04" SINGLE HUNG WINDOW-	3.00	EA	1,500.00	4,500
*** Total Aluminum Windows				23,700
Glass Doors & Entrances				
ALUMINUM ENTRANCE DOOR & FRAME- 3070	1.00	EA	3,500.00	3,500
GLAZING @ FRAMING BY OTHERS - TYPE E WINDOW	32.00	SF	38.00	1,216
*** Total Glass Doors & Entrances				4,716
Storefront Window Systems				
EXTERIOR SIDE LITE	20.00	SF	55.00	1,100
*** Total Storefront Window Systems				1,100
Interior Glass				
TEMPERED GLASS IN DOORS (SMALL SIZE)	5.00	EA	75.00	375
TEMPERED GLASS IN DOORS (MEDIUM SIZE)	6.00	EA	150.00	900
TEMPERED GLASS IN DOORS (LARGE SIZE)	1.00	EA	200.00	200
*** Total Interior Glass				1,475
** Total 08.28 - GLASS & GLAZING				30,991
08.34 - FINISH HARDWARE				
Hardware Sets				
DOOR HARDWARE SET #1	15.00	EA	620.00	9,300
DOOR HARDWARE SET #2	7.00	EA	620.00	4,340
DOOR HARDWARE SET #3	1.00	EA	620.00	620
DOOR HARDWARE SET #4	3.00	EA	620.00	1,860
*** Total Hardware Sets				16,120
** Total 08.34 - FINISH HARDWARE				16,120
08.38 - DOOR & HARDWARE INSTALLATION				
Door Distribution				

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Description	Quantity	UM	Tot.UnitCost	TotalCost
DISTRIBUTE HOLLOW METAL DOORS	13.00	EA	14.31	186
*** Total Door Distribution				186
Frame Distribution				
DISTRIBUTE HOLLOW METAL FRAMES	26.00	EA	14.31	372
*** Total Frame Distribution				372
Set Hollow Metal Doors				
SET HOLLOW METAL DOORS	8.00	EA	39.00	312
*** Total Set Hollow Metal Doors				312
Wood Door Distribution				
DISTRIBUTE WOOD DOORS	16.00	EA	14.28	228
*** Total Wood Door Distribution				228
Set Wood Doors				
SET DOORS	26.00	EA	38.94	1,012
*** Total Set Wood Doors				1,012
Install Hardware Sets				
LABOR TO SET	26.00	EA	216.32	5,624
UNLOAD AND DISTRIBUTE HARDWARE SETS	26.00	EA	38.94	1,012
*** Total Install Hardware Sets				6,637
** Total 08.38 - DOOR & HARDWARE INSTALLATION				8,748
09.02 - DRYWALL				
Other Wood & Plastics				
FRP @ JANITOR, DATA & VEHICLE BAYS SELECT WALLS	245.00	SF	11.20	2,744
*** Total Other Wood & Plastics				2,744
Interior Partitions to Deck, One Layer Ea Side				
TO 12' -20 GA.6"@16",1 EA 5/8"GYP EA. SIDE 2 LAYERS ON ONE SIDE TYPE Qs	348.00	LF	190.40	66,259
TO 12' -20 GA.8"@16",1 EA 5/8"GYP EA. SIDE - TYPE Ds	17.00	LF	214.20	3,641
*** Total Interior Partitions to Deck, One La				69,901
Interior Partitions to Deck, Two Layers Ea Side				
TO 12' -20 GA.6"@16",2 EA 5/8"GYP EA. SIDE - TYPE Gs	87.00	LF	123.20	10,718
*** Total Interior Partitions to Deck, Two La				10,718
Partitions to Grid, One Layer Ea Side				
TO 10' -20 GA.6"@16",1 EA 5/8"GYP EA. SIDE - TYPE T	134.00	LF	119.00	15,946
*** Total Partitions to Grid, One Layer Ea Si				15,946
Drywall Ceilings				
DRYWALL CEILING - 1 LAYER GYP TO 8' HEIGHT	438.00	SF	16.80	7,358
*** Total Drywall Ceilings				7,358
Drywall Furrdowns				
FURRDOWN - 3' WIDE	13.00	LF	138.60	1,802
*** Total Drywall Furrdowns				1,802
Insulation by Drywall				
ACOUSTICAL WALL INSULATION - 2"	620.00	SF	2.80	1,736
*** Total Insulation by Drywall				1,736
Acoustical Ceilings				
STANDARD 2 x 2 ACOUSTICAL CEILING	4,146.00	SF	8.40	34,826
*** Total Acoustical Ceilings				34,826
** Total 09.02 - DRYWALL				145,032
09.03 - TILE				
Waterproofing				
WATERPROOFING MEMBRANE	425.00	SF	4.55	1,934
*** Total Waterproofing				1,934
Ceramic tile				
FLOOR TILE - 2X2- COLOR GROUP 1 - UPDATED PER 09/13 MTG	425.00	SF	12.00	5,100

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Description	Quantity	UM	Tot.UnitCost	TotalCost
WALL TILE - 4x4	1,424.00	SF	12.00	17,088
*** Total Ceramic tile				22,188
Tile Scope Items				
FLOOR PROTECTION	425.00	SF	0.96	408
*** Total Tile Scope Items				408
** Total 09.03 - TILE				24,529
09.07 - CARPET, VINYL FLOORING, & BASE				
VCT				
LVT	1,620.00	SF	4.25	6,885
*** Total VCT				6,885
Carpet Tile				
CARPET TILE	1,971.00	SF	4.24	8,355
*** Total Carpet Tile				8,355
Resilient Base				
RUBBER BASE	1,420.00	LF	1.10	1,562
*** Total Resilient Base				1,562
** Total 09.07 - CARPET, VINYL FLOORING, & BA				16,802
09.12 - PAINTING				
Paint Drywall				
PAINT DRYWALL PARTITIONS	11,800.00	SF	1.10	12,980
PAINT DRYWALL CEILINGS	438.00	SF	1.23	539
*** Total Paint Drywall				13,519
Paint Doors & Frames				
PAINT HOLLOW METAL FRAMES	7.00	EA	50.00	350
PAINT HOLLOW METAL DOORS	9.00	EA	50.00	450
*** Total Paint Doors & Frames				800
Paint Steel Members				
EPOXY PAINT BOLLARDS	16.00	EA	125.00	2,000
*** Total Paint Steel Members				2,000
MEP Painting				
PAINT EXPOSED STRUCTURE ABOVE	10,235.00	SF	2.00	20,470
*** Total MEP Painting				20,470
Paint Preparation				
TAPE & FLOAT BY PAINTER	27,666.00	SF	1.30	35,966
*** Total Paint Preparation				35,966
** Total 09.12 - PAINTING				72,755
09.16 - CONCRETE SEALER				
Concrete Sealer				
CONCRETE SEALER - TWO COATS	5,958.00	SF	2.10	12,512
CONCRETE SEALER - TWO COATS	1,092.00	SF	1.10	1,201
*** Total Concrete Sealer				13,713
** Total 09.16 - CONCRETE SEALER				13,713
10.03 - TOILET COMPARTMENTS				
Plastic Toilet Compartments				
HDPE TOILET COMPARTMENTS	3.00	EA	900.00	2,700
HDPE PLASTIC LAMINATE HANDICAP TOILET COMPARTMENTS	2.00	EA	1,000.00	2,000
*** Total Plastic Toilet Compartments				4,700
Install Toilet Compartments				
INSTALL TOILET PARTITIONS	5.00	EA	111.15	556
*** Total Install Toilet Compartments				556
** Total 10.03 - TOILET COMPARTMENTS				5,256
10.05 - WALL PROTECTION				
Stainless Steel Wall Protection				
SURFACE MOUNT STAINLESS STEEL CORNER GUARDS - 8'	7.00	EA	148.00	1,036
*** Total Stainless Steel Wall Protection				1,036
Install Wall Protection				

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Description	Quantity	UM	Tot.UnitCost	TotalCost
INSTALL CORNER GUARDS	7.00	EA	38.59	270
*** Total Install Wall Protection				270
** Total 10.05 - WALL PROTECTION				1,306
10.08 - SIGNAGE				
Miscellaneous Signage				
SIGNAGE ALLOWANCE PER OPENING	28.00	EA	125.00	3,500
WAYFINDING SIGNAGE ALLOWANCE	5.00	EA	175.00	875
*** Total Miscellaneous Signage				4,375
** Total 10.08 - SIGNAGE				4,375
10.10 - FIRE PROTECTION SPECIALTIES				
Fire Extinguisher Cabinets				
FIRE EXTINGUISHER W/CABINET	1.00	EA	220.00	220
*** Total Fire Extinguisher Cabinets				220
Install Fire Protection Specialties				
INSTALL FIRE EXTINGUISHER WITH CABINET	1.00	EA	28.81	29
*** Total Install Fire Protection Specialties				29
** Total 10.10 - FIRE PROTECTION SPECIALTIES				249
10.11 - ALUMINUM COVERS & AWNINGS				
Canopies - Anodized Aluminum				
CLEAR ANODIZED ALUMINUM CANOPY UNDER 500 SF	208.00	SF	52.00	10,816
*** Total Canopies - Anodized Aluminum				10,816
** Total 10.11 - ALUMINUM COVERS & AWNINGS				10,816
10.17 - TOILET ACCESSORIES				
Grab Bars				
GRAB BARS - 36" SATIN FINISH, EXPOSED MTD.	3.00	EA	29.50	89
GRAB BARS - 42" SATIN FINISH, EXPOSED MTD.	3.00	EA	38.50	116
*** Total Grab Bars				204
Toilet Paper Dispensers				
TOILET TISSUE DISPENSER, EXPOSED, SURFACE MTD	6.00	EA	30.00	180
*** Total Toilet Paper Dispensers				180
Sanitary Napkin Disposals				
TOILET SEAT COVER DISPENSER SURFACE MTD - EXCLUDED - UPDATED PER 09/13 MTG		EA	40.00	
*** Total Sanitary Napkin Disposals				
Soap Dispensers				
SOAP DISPENSER - SURFACE MTD	6.00	EA	45.00	270
*** Total Soap Dispensers				270
Diaper Changing Stations				
DIAPER CHANGING STATION- EXCLUDED - UPDATED PER 09/13 MTG		EA	350.00	
*** Total Diaper Changing Stations				
Hand Dryers				
HAND DRYER, AUTO PILOT SURFACE MTD - UPDATED PER 09/13 MTG	3.00	EA	1,300.00	3,900
*** Total Hand Dryers				3,900
Install Toilet Accessories				
INSTALL GRAB BARS	6.00	EA	14.40	86
INSTALL PAPER TOWEL DISPENSERS SURFACE MTD	6.00	EA	14.40	86
INSTALL TOILET TISSUE DISPENSER	6.00	EA	21.61	130
INSTALL TOILET SEAT COVER DISPENSER		EA	14.40	
INSTALL SOAP DISPENSER	5.00	EA	14.40	72
INSTALL DIAPER CHANGING STATION		EA	14.40	
INSTALL HAND DRYER	3.00	EA	43.21	130
*** Total Install Toilet Accessories				504
** Total 10.17 - TOILET ACCESSORIES				5,058

Williamson County - North Campus Facility

Loc: Georgetown, Texas

Est Date: 08/29/2016

Project Size: 0 sqft

Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
11.08 - RESIDENTIAL APPLIANCES				
Residential Appliances				
REFRIGERATOR	1.00	EA	650.00	650
MICROWAVE - EXCLUDED - UPDATED PER 09/13 MTG		EA	300.00	
*** Total Residential Appliances				650
Install Residential Appliances				
INSTALL REFRIGERATOR	1.00	EA	38.59	39
INSTALL MICROWAVE		EA	38.59	
*** Total Install Residential Appliances				39
** Total 11.08 - RESIDENTIAL APPLIANCES				689
11.12 - VEHICLE SERVICE EQUIPMENT				
Vehicle Service Equipment				
4- POST LIFT (2-WAY DRIVE)	1.00	EA	8,888.00	8,888
EXHAUST REMOVAL SYSTEM	1.00	LS		
RETRACTABLE AIR-POWER - ALLOWANCE - UPDATED PER 09/13 MEETING	1.00	LS	2,500.00	2,500
*** Total Vehicle Service Equipment				11,388
** Total 11.12 - VEHICLE SERVICE EQUIPMENT				11,388
11.14 - MISCELLANEOUS EQUIPMENT VENDOR				
Miscellaneous Equipment				
DEFIBRILATOR	1.00	EA	3,400.00	3,400
*** Total Miscellaneous Equipment				3,400
** Total 11.14 - MISCELLANEOUS EQUIPMENT VEND				3,400
11.16 - TV BRACKETS				
TV Supports				
TV BRACKETS - WALL MTD (PEERLESS JUMBO 2000)	3.00	EA	145.00	435
*** Total TV Supports				435
Install Equipment Supports				
INSTALL TV BRACKET - PEERLESS	3.00	EA	38.59	116
*** Total Install Equipment Supports				116
** Total 11.16 - TV BRACKETS				551
12.05 - BLINDS AND SHADES				
Blinds & Shades				
MINI BLINDS	884.00	SF	5.00	4,420
*** Total Blinds & Shades				4,420
** Total 12.05 - BLINDS AND SHADES				4,420
21.01 - FIRE PROTECTION				
Sprinkler Systems				
INSTITUTIONAL BASE FIRE PROTECTION	9,600.00	SF	2.75	26,400
*** Total Sprinkler Systems				26,400
** Total 21.01 - FIRE PROTECTION				26,400
22.01 - PLUMBING				
Building Plumbing				
INSTITUTIONAL BASE PLUMBING	9,600.00	SF		
*** Total Building Plumbing				
Domestic Water Piping				
L-Cu DIST. PIPING 1/2"	168.00	LF	34.00	5,712
L-Cu DIST. PIPING 3/4"	310.00	LF	40.00	12,400
L-Cu DIST. PIPING 1"	180.00	LF	49.00	8,820
L-Cu DIST. PIPING 1 1/2"	185.00	LF	53.00	9,805
L-Cu DIST. PIPING 2"	160.00	LF	58.00	9,280
*** Total Domestic Water Piping				46,017
Cleanouts & Specialties				
BACKFLOW PREVENTER 2"	1.00	EA	1,230.00	1,230
*** Total Cleanouts & Specialties				1,230
Sanitary Waste & Vent Piping				
C.I. WASTE & VENT ABOVE GROUND 2"	150.00	LF	34.00	5,100

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
C.I. WASTE & VENT UNDERGROUND 2"	95.00	LF	45.00	4,275
C.I. WASTE & VENT UNDERGROUND 3"	74.00	LF	52.00	3,848
C.I. WASTE & VENT UNDERGROUND 4"	210.00	LF	65.00	13,650
EXCAVATION & BACKFILL	379.00	LF	26.00	9,854
*** Total Sanitary Waste & Vent Piping				36,727
Floor Drains, Cleanouts, & Specialties				
FLOOR CLEANOUT 4"	2.00	EA	275.00	550
YARD CLEANOUT 4"	1.00	EA	250.00	250
*** Total Floor Drains, Cleanouts, & Specialt				800
Medical & Laboratory Gas Piping - CDA				
COMPRESSED AIR PIPING 2"	120.00	LF	31.00	3,720
COMRESSOR ALLOWANCE - UPDATE PER 09/13 MEETING	1.00	EA	4,000.00	4,000
*** Total Medical & Laboratory Gas Piping - C				7,720
Natural Gas Piping				
BLACK STEEL NAT. GAS PIPING 1"	45.00	LF	24.00	1,080
BLACK STEEL NAT. GAS PIPING 1 1/2"	250.00	LF	30.00	7,500
BLACK STEEL NAT. GAS PIPING 2"	75.00	LF	32.00	2,400
*** Total Natural Gas Piping				10,980
Fixtures, Drains, Connections				
WC - WATER CLOSET, FLR MNTD, FLUSH VALVE	3.00	EA	1,711.00	5,133
WCH - WATER CLOSET, FLR MNTD, FLUSH VALVE	3.00	EA	1,711.00	5,133
AUTOMATIC FLUSH SENSOR & OPERATOR FOR WATER CLOSET	6.00	EA	520.00	3,120
URH - URINAL, WALL HUNG FLUSH VALVE	1.00	EA	1,955.00	1,955
AUTOMATIC FLUSH SENSOR & OPERATOR FOR URINAL	1.00	EA	520.00	520
CARRIERS & SUPPORTS FOR URINALS	1.00	EA	520.00	520
LH - LAVATORY, WALL HUNG VITREOUS	1.00	EA	1,520.00	1,520
LH - LAVATORY, COUNTERTOP, SELF-RIMMING	4.00	EA	1,428.00	5,712
INFRARED SENSORS FOR LAVATORIES (W/ FAUCET HEAD)	5.00	EA	490.00	2,450
CARRIERS & SUPPORTS FOR LAVATORIES	1.00	EA	465.00	465
SS-1 - SERVICE SINK, WALL HUNG, ENAMEL	1.00	EA	1,970.00	1,970
SS - MOP RECEPTOR, FLR MNTD TERRAZZO	1.00	EA	1,799.00	1,799
EWCH - DRINKING FOUNTAIN WALL HUNG, ELECT, HI / LOW	2.00	EA	2,350.00	4,700
SKH - MULTI-PURP SINK, 1 COMP, SS	1.00	EA	1,655.00	1,655
WB - APPLIANCE BOX - REFRIDGERATOR	1.00	EA	75.00	75
TRENCH DRAIN CAST IRON - EXCLUDED - PER 09/13 MTG		LF	50.00	
HB - HOSE BIB 3/4"	6.00	EA	75.00	450
*** Total Fixtures, Drains, Connections				37,177
Water Heaters				
WATER HEATER	1.00	EA	3,500.00	3,500
*** Total Water Heaters				3,500
Misc. Pumps				
IN-LINE RECIRC PUMP, 3"	1.00	EA	2,600.00	2,600
*** Total Misc. Pumps				2,600
Plumbing Scope Items				
PLUMBING TO 5' OUTSIDE BLDG	1.00	SCOPE		
FIRESTOP OWN PENETRATIONS	9,600.00	SF	0.05	480
*** Total Plumbing Scope Items				480
** Total 22.01 - PLUMBING				147,231
23.01 - HVAC				
Test & Balance				
TEST & BALANCE BY HVAC SUBCONTRACTOR	5,441.00	SF	0.78	4,244
*** Total Test & Balance				4,244
Building HVAC Controls				
CONTROLS TURNKEY - BASIC	5,441.00	SF	1.90	10,338
*** Total Building HVAC Controls				10,338

Williamson County - North Campus Facility

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Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
Supply/Return/Exhaust Duct				
GALVANIZED RECTANGULAR DUCT	8,500.00	LB	6.89	58,565
*** Total Supply/Return/Exhaust Duct				58,565
Duct & Piping Insulation				
DUCT INSULATION	5,441.00	SF	2.75	14,963
*** Total Duct & Piping Insulation				14,963
Air Distribution Devices				
SUPPLY DIFFUSERS - TYPE A	23.00	EA	100.00	2,300
RETURN GRILLES - TYPE B	13.00	EA	65.00	845
EXHAUST REGISTERS - TYPE C	1.00	EA	65.00	65
EXHAUST REGISTERS - TYPE D	4.00	EA	65.00	260
WALL EXHAUST PORT ASSEMBLY - 4"	14.00	EA	125.00	1,750
*** Total Air Distribution Devices				5,220
Exhaust/Return Fans				
TOILET EXHAUST FANS - EF - d1.1 - 1.3	625.00	CFM	2.85	1,781
SIDEWALL PROPELLER FAN - d1.4	12,900.00	CFM	0.40	5,160
*** Total Exhaust/Return Fans				6,941
AHU DX Systems/ Mini-Split				
RTU - D1.1 & D1.2 - 8.5 TON	2.00	EA	11,200.00	22,400
VARIABLE FREQUENCY DRIVE	6.00	HP	200.00	1,200
RIGGING	2.00	EA	1,500.00	3,000
*** Total AHU DX Systems/ Mini-Split				26,600
Computer Room A/C Units				
DUCTLESS SPLIT SYSTEM - AC d1.1	1.00	EA	10,174.00	10,174
*** Total Computer Room A/C Units				10,174
Unit Heaters				
GAS FIRED - 100 MBTUH	4.00	EA	1,600.00	6,400
ELECTRIC - 3.3kW	1.00	EA	780.00	780
*** Total Unit Heaters				7,180
HVAC Scope Items				
PROVIDE & INSTALL ROOF TOP SUPPORTS	2.00	EA	2,500.00	5,000
PROVIDE OWN HOISTING FOR HVAC	1.00	LS	5,000.00	5,000
TEMPORARY FILTERS FOR HVAC	2.00	EA	750.00	1,500
FIRESTOP OWN PENETRATIONS (SF OF BLDG AREA)	5,441.00	SF	0.05	272
BIM COORDINATION	1.00	SCOPE	4,500.00	4,500
*** Total HVAC Scope Items				16,272
** Total 23.01 - HVAC				160,497
26.01 - ELECTRICAL				
Site Electrical Ductbank				
SITE DUCT BANK - ELECTRICAL	299.00	LF	225.00	67,275
SITE DUCT BANK CONCRETE	115.00	CY	80.00	9,200
HAUL OFF DUCT BANK SPOILS	140.00	TCY	10.00	1,400
*** Total Site Electrical Ductbank				77,875
Light Poles & Standards				
LIGHT POLES - ONE ARM	1.00	EA	3,000.00	3,000
*** Total Light Poles & Standards				3,000
Building Electrical				
INSTITUTIONAL BASE ELECTRICAL	9,600.00	SF		
TELE/DATA CONDUIT & BACK BOXES	9,600.00	SF	0.35	3,360
AUDIO VISUAL CONDUIT & BACK BOXES	9,600.00	SF	0.50	4,800
SECURITY CONDUIT & BACK BOXES	9,600.00	SF	0.50	4,800
*** Total Building Electrical				12,960
Secondary Feeders				
SECONDARY FEEDERS	9,600.00	SF	2.75	26,400
*** Total Secondary Feeders				26,400
Distribution Panels and Panelboards				
120/208 V, 4 WIRE, 225 AMP MAIN	1.00	EA	1,850.36	1,850
120/208 V, 4 WIRE, 400 AMP MAIN	1.00	EA	2,800.00	2,800
277/480 V, 4 WIRE, 400 AMP MAIN	1.00	EA	2,800.00	2,800
277/480 V, 4 WIRE, 800 AMP MAIN	1.00	EA	8,860.00	8,860
*** Total Distribution Panels and Panelboards				16,310

Williamson County - North Campus Facility

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Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
Branch Circuiting				
120V DUPLEX OUTLET	54.00	EA	154.22	8,328
120V GFI DUPLEX OUTLET	19.00	EA	158.01	3,002
120V FOURPLEX OUTLET	18.00	EA	188.98	3,402
30 AMP OUTLET	3.00	EA	197.67	593
ADD FOR WEATHERPROOF COVER	8.00	EA	20.00	160
SINGLE SWITCHES	22.00	EA	141.66	3,117
SWITCH - 4 WAY	5.00	EA	292.40	1,462
WALL MOUNTED OCC. SENSORS	9.00	EA	217.73	1,960
CEILING MOUNTED OCC. SENSORS	16.00	EA	339.38	5,430
J.B.W/25' CONDUIT & WIRE FOR RETRACTABLE POWER CHORD	4.00	EA	154.22	617
*** Total Branch Circuiting				28,070
Wiremold				
WIREMOLD NO. 4000	48.00	LF	28.00	1,344
ADD FOR OUTLETS (2 OR 3 REC/CHT)	72.00	EA	110.00	7,920
*** Total Wiremold				9,264
Building Light Fixtures				
TYPE A2 - 2X4 LAY IN LED	8.00	EA	574.00	4,592
TYPE C2 - 2X4 LAY IN LED - W/ GYP FLANGE KIT	12.00	EA	574.00	6,888
TYPE C3 - 2X4 LAY IN LED - W/ GYP FLANGE KIT	4.00	EA	574.00	2,296
TYPE M2 - 2X4 LAY IN LED	16.00	EA	574.00	9,184
TYPE M3 - 2X4 LAY IN LED	18.00	EA	574.00	10,332
TYPE M4 - 2X4 LAY IN LED	15.00	EA	574.00	8,610
TYPE H2 - LED STRIP FIXTURE	3.00	EA	1,100.00	3,300
TYPE T1	17.00	EA	786.00	13,362
TYPE T6E	5.00	EA	786.00	3,930
X1 - LED SINGLE FACE EXIT	12.00	EA	280.80	3,370
TYPE G2 - 4' WRAP AROUND	2.00	EA	375.55	751
TYPE U6???? - 16"X4 HIGH BAY LED	20.00	EA	619.00	12,380
Y1 - EMERGENCY EGRESS FIXTURE	23.00	EA	618.61	14,228
CONDUIT & WIRING PER FIXTURE	155.00	EA	138.00	21,390
*** Total Building Light Fixtures				114,613
Lighting Controls				
CONFERENCE ROOM LIGHTING CONTROLS	1.00	EA	1,500.00	1,500
*** Total Lighting Controls				1,500
Equipment Connections				
POWER TO HW RECIRC PUMP	1.00	EA	272.00	272
POWER TO AIR COMPRESSOR	2.00	EA	424.10	848
POWER TO HW HEATER	1.00	EA	424.10	424
POWER TO INFRARED HEATER	12.00	EA	424.10	5,089
POWER TO OH DOORS	8.00	EA	424.10	3,393
*** Total Equipment Connections				10,026
Transformers				
3 PH 240/480-120/208 112.5 KVA	1.00	EA	6,367.00	6,367
*** Total Transformers				6,367
Fire Alarm				
FIRE ALARM SYSTEM	9,600.00	SF	3.25	31,200
*** Total Fire Alarm				31,200
Other Electrical				
FIRECAULKING	9,600.00	SF	0.12	1,152
*** Total Other Electrical				1,152
Electrical Scope Items				
TEMP. ELECTRICAL	9,600.00	SF	0.15	1,440
*** Total Electrical Scope Items				1,440
** Total 26.01 - ELECTRICAL				340,177
27.01 - TELECOM/DATA				
Equipment				
TYPICAL TR/IDF BUILDOUT (INCL. 1 RACKS, LADDER RACKS, CABLE MANAGEMENT, POWER STRIPS, BONDING STRAPS) - UPDATED PER 09/13 MTG	1.00	EA	4,500.00	4,500
*** Total Equipment				4,500

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
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Description	Quantity	UM	Tot.UnitCost	TotalCost
Horizontal Cabling/Distribution				
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - CAMERAS	14.00	EA.	189.00	2,646
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - WAP	5.00	EA.	189.00	945
DATA OUTLET - 2 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) (INCL. CABLING, CONNECTORS, FACE PLATE)	31.00	EA	225.00	6,975
*** Total Horizontal Cabling/Distribution				10,566
** Total 27.01 - TELECOM/DATA				15,066
28.01 - SECURITY				
Access Control				
ELECTRIC DOOR STATUS INDICATOR DEVICES	24.00	EA	150.00	3,600
PANIC BUTTONS	1.00	EA	400.00	400
CARD READERS (PER DOOR, READER, REX, LOCK, DOOR CONTACTS, WIRING, INSTALL)	8.00	EA	1,200.00	9,600
*** Total Access Control				13,600
Other Access Control				
HEADEND - (PER DOOR INCLUDES CONTROL PANEL, LOCK POWER SUPPLY)	4.00	EA	600.00	2,400
*** Total Other Access Control				2,400
Electronic Surveillance				
STATIONARY CAMERAS - EXTERIOR	5.00	EA	2,800.00	14,000
STATIONARY CAMERAS - INTERIOR	1.00	EA	2,100.00	2,100
CAMERA DOMES	6.00	EA	350.00	2,100
*** Total Electronic Surveillance				18,200
** Total 28.01 - SECURITY				34,200
31.01 - EARTHWORK				
Stripping				
STRIPPING - LARGER THAN 2 ACRES	655.00	TCY	3.73	2,442
HAUL OFF STRIPPING MATERIALS	655.00	TCY	2.51	1,644
*** Total Stripping				4,086
Building Mass Excavation				
EXPORT MATERIALS - BUILDING	2,231.00	TCY	7.53	16,796
MASS EXCAVATION - WIRELESS COMM. BUILDING	2,231.00	TCY	1.75	3,894
*** Total Building Mass Excavation				20,690
Building Structural Fill				
STRUCTURAL FILL - WIRELESS COMM. BUILDING (6')	4,782.00	TCY	2.04	9,734
IMPORT MATERIALS - SELECT FILL	4,782.00	TCY	15.06	72,003
SCARIFY AND COMPACT - WIRELESS COMM. BUILDING	12,800.00	SF	0.09	1,168
*** Total Building Structural Fill				82,905
Paving Cut/Fill				
IMPORT MATERIALS - PAVING (SELECT FILL)	965.00	TCY	15.06	14,530
CUT FOR SITE PAVING		TCY	9.23	
FILL FOR SITE PAVING	965.00	TCY	1.21	1,166
*** Total Paving Cut/Fill				15,696
Misc. Site Cut/Fill				
BACKFILL CURBS (CREW & MATERIAL)	486.00	TCY	7.32	3,559
*** Total Misc. Site Cut/Fill				3,559
Base Materials				
PLACE WASHED RIVER GRAVEL	40.00	TON	45.59	1,824
PLACE 12" LIMESTONE BASE	2,700.00	TON	3.38	9,118
PURCHASE LIMESTONE BASE	2,700.00	TON	15.06	40,654
PURCHASE WASHED RIVER GRAVEL	40.00	TON	37.64	1,506
*** Total Base Materials				53,101
Lime Stabilization				

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
STABILIZE SUBGRADE - ASPHALT SUBGRADE	4,055.00	SYD	3.57	14,488
STABILIZE SUBGRADE - CONCRETE SUBGRADE	522.00	SYD	5.55	2,898
STABILIZE SUBGRADE - WASHED RIVER GRAVEL	267.00	SYD	10.85	2,898
BLUE TOP / CUT TO GRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" SELECT FILL, 6" LIME STAB.)	36,496.00	SF	0.05	1,844
BLUE TOP / CUT TO GRADE - CONCRETE SUBGRADE (24" SELECT FILL, 6" LIME STAB.)	4,701.00	SF	0.39	1,846
BLUE TOP / CUT TO GRADE - WASHED RIVER SUBGRADE (6" BASE, 12" SELECT FILL, 6" LIME STAB.)	2,400.00	SF	0.77	1,847
PURCHASE LIME	88.00	TON	200.76	17,667
FUEL FOR STABILIZATION	2.00	WK	2,436.04	4,872
CALCULATION - 36LBS PER SY x SY / 2000 = TONS	1.00	SCOPE		
*** Total Lime Stabilization				48,359
** Total 31.01 - EARTHWORK				228,396
31.05 - SOIL TREATMENT				
Termite Treatment				
TERMITE TREATMENT	9,600.00	SF	0.16	1,536
*** Total Termite Treatment				1,536
** Total 31.05 - SOIL TREATMENT				1,536
32.01 - ASPHALT				
Asphalt Paving				
ASPHALT PAVING - 2" TYPE D	32,500.00	SF	1.60	51,997
*** Total Asphalt Paving				51,997
** Total 32.01 - ASPHALT				51,997
32.07 - FENCES & GATES				
Chain Link Fences				
ORNAMENTAL METAL FENCE - 6'	544.00	LF	70.00	38,080
GATE OPERATORS	2.00	EA	5,250.00	10,500
ORNAMENTAL ROLL GATE - 12' WIDE	2.00	EA	3,800.00	7,600
*** Total Chain Link Fences				56,180
** Total 32.07 - FENCES & GATES				56,180
32.14 - STRIPING & SIGNS				
Handicap Signs				
HC SIGNS WITH POSTS	1.00	EA	200.00	200
*** Total Handicap Signs				200
Striping				
SPACES	19.00	EA	10.00	190
HATCHINGS	1.00	EA	30.00	30
*** Total Striping				220
Wheel Stops				
WHEEL STOPS -UPDATED PER 09/13 MTG	12.00	EA	35.00	420
*** Total Wheel Stops				420
** Total 32.14 - STRIPING & SIGNS				840
33.01 - SITE UTILITIES				
Water Piping				
PVC SCH 40 PIPE - 2"	60.00	LF	11.32	679
INSTALL WATER LINE PIPE	60.00	LF	57.41	3,444
BANK SAND	40.00	TCY	21.87	875
*** Total Water Piping				4,998
Fire Line Piping				
FIRE LINE - 6"	101.00	LF	54.68	5,523
INSTALL FIRE LINE PIPE	101.00	LF	34.10	3,444
THRUST BLOCKS	1.00	CY	218.71	219
BANK SAND	100.00	TCY	21.87	2,187
*** Total Fire Line Piping				11,373
Fire Line Distribution Equipment				
FIRE HYDRANT	1.00	EA	6,151.35	6,151

Williamson County - North Campus Facility

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Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost
GATE VALVE & BOX - 6"	1.00	EA	1,230.27	1,230
*** Total Fire Line Distribution Equipment				7,382
Testing & Disinfection				
DISINFECTION OF WATER PIPING	1.00	SCOPE		
HYDROSTATIC TESTING OF WATER PIPING	1.00	SCOPE		
*** Total Testing & Disinfection				
Sanitary Piping				
PVC SDR 26 - 4"	123.00	LF	4.98	612
INSTALL SANTIARY PIPE	123.00	LF	28.00	3,444
CEMENT STABILIZED BACKFILL	154.00	TONS	16.80	2,587
CLEANOUT	1.00	EA	398.21	398
*** Total Sanitary Piping				7,042
Storm Drainage Piping				
RCP - 18"	132.00	LF	64.25	8,481
INSTALL STORM PIPE 18" - 42"	132.00	LF	6.51	859
CEMENT STABILIZED BACKFILL	130.00	TONS	34.17	4,443
*** Total Storm Drainage Piping				13,782
Storm Drainage Structures				
PRE CAST CONCRETE HEADWALL 18"	2.00	EA	2,948.68	5,897
*** Total Storm Drainage Structures				5,897
Miscellaneous Utilities				
HAUL STORM SPOILS	100.00	TCY	5.97	597
HAUL SANITARY SPOILS	120.00	TCY	5.97	717
HAUL WATER SPOILS	40.00	TCY	5.97	239
HAUL FIRE SPOILS	100.00	TCY	5.97	597
*** Total Miscellaneous Utilities				2,150
** Total 33.01 - SITE UTILITIES				52,625
* Total WIRELESS COMMUNICATION SHOP	9,600.00	SF	233.56	2,242,165

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
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Est Date: 08/29/2016
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Description	Quantity	UM	Tot.UnitCost	TotalCost
EMS STORAGE SHED				
03.00 - CONCRETE TURNKEY				
Building Concrete				
EMS VEHICLE STORAGE SHED - GRADE BEAMS	650.00	LF	120.00	78,000
EMS VEHICLE STORAGE SHED - SLAB ON GRADE	6,750.00	SF	6.55	44,213
EMS VEHICLE STORAGE SHED - CURBS	114.00	LF	25.00	2,850
EMS VEHICLE STORAGE SHED - BOLLARDS	12.00	EA	560.00	6,720
*** Total Building Concrete				131,783
** Total 03.00 - CONCRETE TURNKEY				131,783
04.01 - MASONRY				
Reinforcing Steel				
MASONRY REBAR	1.00	TON	1,200.00	1,200
*** Total Reinforcing Steel				1,200
Concrete Masonry Units (CMU)				
CMU - 4" SPLIT FACED COLOR VENEER	244.00	SF	11.00	2,684
CMU - 12" GROUT FILL @ 32" O.C.	1,951.00	SF	15.00	29,265
*** Total Concrete Masonry Units (CMU)				31,949
Masonry Scaffolding				
SCAFFOLDING FOR EXTERIOR MASONRY	2,195.00	SF	2.00	4,390
*** Total Masonry Scaffolding				4,390
** Total 04.01 - MASONRY				37,539
05.01 - STEEL FABRICATION				
Overhead Support Framing				
PIPE BOLLARDS	24.00	EA	110.00	2,640
*** Total Overhead Support Framing				2,640
** Total 05.01 - STEEL FABRICATION				2,640
05.02 - STEEL ERECTION				
Misc. Steel Erection				
PIPE BOLLARDS	24.00	EA	88.05	2,113
*** Total Misc. Steel Erection				2,113
** Total 05.02 - STEEL ERECTION				2,113
05.06 - PRE-ENGINEERED METAL BUILDING				
Pre-Engineered Metal Building				
PRE-ENGINEERED METAL BUILDING	6,700.00	SF	10.00	67,000
*** Total Pre-Engineered Metal Building				67,000
** Total 05.06 - PRE-ENGINEERED METAL BUILDING				67,000
05.07 - PRE-ENGINEERED METAL BUILDING ERECTION				
Pre-Engineered Metal Building Erection				
ERECT PRE-ENGINEERED METAL BUILDING	6,700.00	SF	7.00	46,900
*** Total Pre-Engineered Metal Building Erect				46,900
** Total 05.07 - PRE-ENGINEERED METAL BUILDING ERECTION				46,900
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALANTS				
Water Repellent Scope Items				
CMU SEALER	1,905.00	SF	0.75	1,429
*** Total Water Repellent Scope Items				1,429
Building Facade Joint Sealants				
JOINT SEALANTS BUILDING TO SIDEWALK	110.00	LF	2.60	286
VERTICAL JOINT SEALANTS - BRICK TO BRICK	144.00	LF	2.60	374
*** Total Building Facade Joint Sealants				660
** Total 07.01 - WATERPROOF / DAMPPROOF / JOINT SEALANTS				2,089
09.12 - PAINTING				
Paint Steel Members				
EPOXY PAINT BOLLARDS	12.00	EA	125.00	1,500
*** Total Paint Steel Members				1,500
** Total 09.12 - PAINTING				1,500

Williamson County - North Campus Facility

Loc: Georgetown, Texas

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Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
10.08 - SIGNAGE				
Miscellaneous Signage				
SIGNAGE ALLOWANCE PER OPENING		EA	125.00	
*** Total Miscellaneous Signage				
** Total 10.08 - SIGNAGE				
26.01 - ELECTRICAL				
Site Electrical Ductbank				
SITE DUCT BANK - ELECTRICAL	133.00	LF	225.00	29,925
SITE DUCT BANK CONCRETE	51.00	CY	80.00	4,080
HAUL OFF DUCT BANK SPOILS	62.00	TCY	10.00	620
*** Total Site Electrical Ductbank				34,625
Light Poles & Standards				
LIGHT POLES - ONE ARM - UPDATED PER 09/13 MTG	2.00	EA	3,000.00	6,000
LIGHT POLES - TWO ARM - UPDATED PER 09/13 MTG	2.00	EA	3,500.00	7,000
*** Total Light Poles & Standards				13,000
Building Electrical				
INSTITUTIONAL BASE ELECTRICAL	7,500.00	SF		
*** Total Building Electrical				
Secondary Feeders				
SECONDARY FEEDERS	7,500.00	SF	2.75	20,625
*** Total Secondary Feeders				20,625
Distribution Panels and Panelboards				
120/208 V, 4 WIRE, 100 AMP MAIN	1.00	EA	1,506.86	1,507
277/480 V, 4 WIRE, 100 AMP MAIN	1.00	EA	1,832.00	1,832
120/208 V, 4 WIRE, 400 AMP MAIN	1.00	EA	2,800.00	2,800
*** Total Distribution Panels and Panelboards				6,139
Branch Circuiting				
120V DUPLEX OUTLET	54.00	EA	154.22	8,328
SWITCH - 4 WAY	4.00	EA	292.40	1,170
CEILING MOUNTED OCC. SENSORS	8.00	EA	339.38	2,715
CONDUIT & WIRING PER DROP	66.00	EA	138.00	9,108
*** Total Branch Circuiting				21,321
Building Light Fixtures				
TYPE J3 - LED WET LOCATION STRIP FIXTURE - UPDATED PER 09/13 MTG	22.00	EA	525.00	11,550
TYPE T1	4.00	EA	786.00	3,144
CONDUIT & WIRING PER FIXTURE	16.00	EA	138.00	2,208
*** Total Building Light Fixtures				16,902
Transformers				
3 PH 240/480-120/208 30 KVA	1.00	EA	2,706.00	2,706
*** Total Transformers				2,706
Other Electrical				
FIRECAULKING		SF	0.12	
*** Total Other Electrical				
Electrical Scope Items				
TEMP. ELECTRICAL	7,500.00	SF	0.15	1,125
*** Total Electrical Scope Items				1,125
** Total 26.01 - ELECTRICAL				116,442
27.01 - TELECOM/DATA				
Horizontal Cabling/Distribution				
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - UPDATED PER 09/13 MTG		EA.	189.00	
*** Total Horizontal Cabling/Distribution				
** Total 27.01 - TELECOM/DATA				
28.01 - SECURITY				
Electronic Surveillance				

Williamson County - North Campus Facility

Loc: Georgetown, Texas

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Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
STATIONARY CAMERAS - EXTERIOR - UPDATED PER 09/13 MTG		EA	2,800.00	
CAMERA DOMES - UPDATED PER 09/13 MTG		EA	350.00	
*** Total Electronic Surveillance				
** Total 28.01 - SECURITY				
31.01 - EARTHWORK				
Stripping				
STRIPPING - LARGER THAN 2 ACRES	851.00	TCY	2.87	2,442
HAUL OFF STRIPPING MATERIALS	851.00	TCY	2.51	2,136
*** Total Stripping				4,578
Building Mass Excavation				
EXPORT MATERIALS - BUILDING	2,275.00	TCY	7.53	17,128
MASS EXCAVATION - EMS VEHICLE STORAGE	2,275.00	TCY	1.71	3,894
*** Total Building Mass Excavation				21,021
Building Structural Fill				
STRUCTURAL FILL - EMS VEHICLE STORAGE (5.5')	2,553.00	TCY	2.29	5,841
IMPORT MATERIALS - SELECT FILL	2,553.00	TCY	15.06	38,441
SCARIFY AND COMPACT - EMS VEHICLE STORAGE SHED	8,600.00	SF	0.14	1,167
*** Total Building Structural Fill				45,448
Paving Cut/Fill				
EXPORT MATERIALS - PAVING	72.00	TCY	7.53	542
IMPORT MATERIALS - PAVING (SELECT FILL)	1,065.00	TCY	15.06	16,036
CUT FOR SITE PAVING	72.00	TCY	23.76	1,711
FILL FOR SITE PAVING	1,065.00	TCY	1.10	1,166
*** Total Paving Cut/Fill				19,455
Misc. Site Cut/Fill				
BACKFILL CURBS (CREW & MATERIAL)	312.00	TCY	11.41	3,559
*** Total Misc. Site Cut/Fill				3,559
Base Materials				
PLACE 12" LIMESTONE BASE	1,900.00	TON	4.80	9,118
PURCHASE SELECT FILL	1,462.00	TCY	15.06	22,013
PURCHASE LIMESTONE BASE	1,900.00	TON	15.06	28,608
*** Total Base Materials				59,740
Lime Stabilization				
STABILIZE SUBGRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	3,024.00	SYD	4.79	14,488
BLUE TOP / CUT TO GRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	27,215.00	SF	0.07	1,847
PURCHASE LIME	55.00	TON	200.76	11,042
FUEL FOR STABILIZATION	1.00	WK	2,508.15	2,508
CALCULATION - 36LBS PER SY x SY / 2000 = TONS	1.00	SCOPE		
*** Total Lime Stabilization				29,885
** Total 31.01 - EARTHWORK				183,686
31.05 - SOIL TREATMENT				
Termite Treatment				
TERMITE TREATMENT	7,500.00	SF	0.16	1,200
*** Total Termite Treatment				1,200
** Total 31.05 - SOIL TREATMENT				1,200
32.01 - ASPHALT				
Asphalt Paving				
ASPHALT PAVING - 2" TYPE D	24,321.00	SF	1.60	38,911
*** Total Asphalt Paving				38,911
** Total 32.01 - ASPHALT				38,911
* Total EMS STORAGE SHED	7,500.00	SF	84.24	631,803

Williamson County - North Campus Facility

Loc: Georgetown, Texas

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Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
EMS TRAINING BUILDING				
01.84 - MOCKUPS				
Exterior Wall Mockups				
FOUNDATION	100.00	SF	25.00	2,500
STRUCTURAL STEEL FRAMEWORK	3.00	TONS	4,000.00	12,000
MASONRY	50.00	SF	17.00	850
CMU	50.00	SF	12.00	600
CAST STONE	25.00	SF	40.00	1,000
METAL PANEL	50.00	SF	30.00	1,500
PLASTER	50.00	SF	15.00	750
GLASS	50.00	SF	100.00	5,000
WATERPROOFING	100.00	SF	5.00	500
INSULATION	100.00	SF	3.00	300
FLASHING	25.00	LF	5.00	125
SEALANTS	25.00	LF	2.50	63
BRICK LINTELS	8.00	LF	30.00	240
EXPANSION JOINTS	8.00	LF	35.00	280
STUD FRAMING/SHEATHING	200.00	SF	7.50	1,500
ROOF - STANDING SEAM	50.00	SF	10.00	500
REMOVE & HAUL MOCK UP	100.00	SF	18.12	1,812
*** Total Exterior Wall Mockups				29,519
** Total 01.84 - MOCKUPS				29,519
03.00 - CONCRETE TURNKEY				
Site Concrete				
EMS TRAINING BUILDING - CMU WALL	81.00	LF	185.00	14,985
CONTINUOUS FOOTINGS				
*** Total Site Concrete				14,985
Building Concrete				
EMS TRAINING BUILDING - GRADE BEAMS	822.00	LF	120.00	98,640
EMS TRAINING BUILDING - ELEVATOR PIT	1.00	EA	8,000.00	8,000
EMS TRAINING BUILDING - CANOPY PIER	12.00	EA	900.00	10,800
CAPS				
EMS TRAINING BUILDING - SLAB ON GRADE	20,900.00	SF	6.55	136,895
EMS TRAINING BUILDING - SLAB ON METAL	15,000.00	SF	4.85	72,750
DECK				
EMS TRAINING BUILDING - PAN STAIRS	563.00	SF	10.00	5,630
EMS TRAINING BUILDING - MEP PADS	325.00	SF	11.50	3,737
EMS TRAINING BUILDING DRILL PIERS - P1 -	12.00	EA	711.67	8,540
18" - CANOPY DRILL PIERS				
EMS TRAINING BUILDING DRILL PIERS - P2 -	24.00	EA	1,485.00	35,640
30"				
EMS TRAINING BUILDING DRILL PIERS - P3 -	13.00	EA	1,689.00	21,957
36"				
EMS TRAINING BUILDING DRILL PIERS - P4 -	15.00	EA	3,015.00	45,225
42"				
EMS TRAINING BUILDING DRILL PIERS - P5 -	2.00	EA	6,547.00	13,094
60"				
*** Total Building Concrete				460,908
** Total 03.00 - CONCRETE TURNKEY				475,893
04.01 - MASONRY				
Reinforcing Steel				
MASONRY REBAR	5.00	TON	1,200.00	6,000
*** Total Reinforcing Steel				6,000
Concrete Masonry Units (CMU)				
CMU - 8" STANDARD GROUT FILL @ 32"	5,014.00	SF	10.20	51,143
O.C.- INTERIOR				
CMU - 4" SPLIT FACED COLOR VENEER	4,939.00	SF	11.00	54,329
CMU - 4" VENEER	3,134.00	SF	11.00	34,474
CMU - 8" SCREEN WALL & DUMPSTER	1,400.00	SF	11.45	16,030
ENCLOSURE				
CMU - 8" BACKUP WALL TO EXTERIOR	5,992.00	SF	11.45	68,608
MASONRY				
*** Total Concrete Masonry Units (CMU)				224,584
Cast Stone				
CAST STONE PARAPET CAP- EXCLUDED -		LF	53.50	
UPDATED PER 09/13 MTG				
*** Total Cast Stone				

Williamson County - North Campus Facility

Loc: Georgetown, Texas
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Description	Quantity	UM	Tot.UnitCost	TotalCost
Masonry Scaffolding				
SCAFFOLDING FOR EXTERIOR MASONRY	14,065.00	SF	2.00	28,130
*** Total Masonry Scaffolding				28,130
** Total 04.01 - MASONRY				258,714
05.01 - STEEL FABRICATION				
Steel Fabrication Budget				
MISC EXTERIOR SUPPORT STEEL - 1 LB/SF OF TOTAL ENVELOPE AREA	12.00	TONS	2,900.00	34,800
MISC INTERIOR STEEL - 0.5 LB/SF	12.00	TONS	2,900.00	34,800
SHEAR CONNECTORS - 0.25LBS/SF	2.00	TONS	2,900.00	5,800
SCREEN WALL FRAMING	468.00	LF	120.00	56,160
PAN STAIRS (STAIR 1)	31.00	RISERS	350.00	10,850
PAN STAIRS (STAIR 2)	47.00	RISERS	350.00	16,450
STAIR 1 WALL RAIL PRIMED	133.00	LF	20.00	2,660
STAIR 2 WALL RAIL PRIMED	55.00	LF	20.00	1,100
STAIR 2 GUARDRAIL - PRIMED	59.00	LF	100.00	5,900
ROOF ACCESS LADDER	2.00	EA	2,300.00	4,600
TOILET PARTITON SUPPORTS - N/R - PARTITIONS ARE FLOOR MOUNTED		LF	40.00	
FOLDING PARTITON SUPPORTS	62.00	LF	40.00	2,480
COILING DOOR SUPPORTS	1.00	EA	500.00	500
BLOCK WALL HEAD SUPPORTS	292.00	LF	24.00	7,008
*** Total Steel Fabrication Budget				183,108
Steel Fabrication				
COLUMNS - HSS TUBES	3.00	TON	2,900.00	8,700
BEAMS - HSS SHAPES	6.00	TON	2,900.00	17,400
BEAMS - JOIST GIRDER - ASSUMES W30X116	15.00	TON	2,900.00	43,500
BEAMS - W SHAPES	63.00	TON	2,900.00	182,700
*** Total Steel Fabrication				252,300
Joist				
JOISTS	43.00	TONS	2,900.00	124,700
*** Total Joist				124,700
Decking				
FLOOR DECK	161.00	SQS	145.00	23,345
ROOF DECK	280.00	SQS	160.00	44,800
*** Total Decking				68,145
Ladders				
ROOF HATCH LADDER	1.00	EA	750.00	750
*** Total Ladders				750
Masonry Supports				
MASONRY LINTELS	210.00	LF	70.00	14,700
*** Total Masonry Supports				14,700
Overhead Support Framing				
LAVATORY SUPPORTS	55.00	LF	40.00	2,200
PIPE BOLLARDS	3.00	EA	110.00	330
*** Total Overhead Support Framing				2,530
** Total 05.01 - STEEL FABRICATION				646,233
05.02 - STEEL ERECTION				
Steel Erection Budget				
ERECT SCREEN WALL FRAMING	468.00	LF	28.00	13,104
SUNSHADE FRAMING	623.00	LF	55.00	34,265
INSTALL FOLDING PARTITION SUPPORTS	62.00	LF	28.00	1,736
*** Total Steel Erection Budget				49,105
Structural Steel Erection				
OPERATED CRANE FOR STEEL ERECTION	15.00	DAY	1,200.00	18,000
*** Total Structural Steel Erection				18,000
Deck Erection				
FLOOR DECK	16,157.00	SF	0.76	12,228
STRUCTURAL STEEL ERECTION - MAIN STRUCTURE	15.00	WKS	9,277.43	139,161
ROOF DECK	22,148.00	SF	0.56	12,369
*** Total Deck Erection				163,759

Williamson County - North Campus Facility

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Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
Pan Stairs				
PAN STAIRS - MULTI STORY	3.00	FLOOR	516.31	1,549
*** Total Pan Stairs				1,549
Guardrails				
STAIR 1 WALL RAILS - INTERIOR STAIRS	133.00	LF	11.70	1,556
STAIR 2 GUARDRAILS - INTERIOR STAIRS	59.00	LF	11.70	690
STAIR 2 WALL RAILS - INTERIOR STAIRS	55.00	LF	11.70	644
*** Total Guardrails				2,890
Ladders				
ROOF LADDER	2.00	EA	250.75	502
*** Total Ladders				502
Masonry Lintels				
MASONRY RELIEF LINTELS	210.00	LF	30.44	6,393
*** Total Masonry Lintels				6,393
Steel Door, Partition, & Counter Supports				
LAVATORY SUPPORTS	55.00	LF	48.71	2,679
*** Total Steel Door, Partition, & Counter Sup				2,679
Misc. Steel Erection				
PIPE BOLLARDS	3.00	EA	88.05	264
*** Total Misc. Steel Erection				264
** Total 05.02 - STEEL ERECTION				245,140
06.02 - ARCHITECTURAL WOODWORK/MILLWORK/TRIM				
Plastic Laminate Cabinetry				
LOWER PLAM CABINETS @ BREAKROOM	24.00	LF	225.00	5,400
LOWER PLAM CABINETS @ COPY ROOMS	52.00	LF	225.00	11,700
LOWER PLAM CABINETS @ OFFICE	15.00	LF	225.00	3,375
LOWER PLAM CABINETS @ OFFICE H137	9.00	LF	225.00	2,025
LOWER PLAM CABINETS @ TRAINING ROOM	27.00	LF	225.00	6,075
UPPER PLAM CABINETS	24.00	LF	160.00	3,840
*** Total Plastic Laminate Cabinetry				32,415
Plastic Laminate Shelving				
P-LAM SHELVING @ CLOSETS	60.00	LF	25.00	1,500
*** Total Plastic Laminate Shelving				1,500
Solid Surface Fabrications				
SOLID SURFACE COUNTER TOP WITH BACK SPLASH @ BREAKROOM	11.00	LF	168.00	1,848
SOLID SURFACE COUNTER TOP WITH BACK SPLASH @ COPY ROOM	53.00	LF	168.00	8,904
SOLID SURFACE COUNTER TOP WITH BACK SPLASH @ OFFICES	15.00	LF	168.00	2,520
SOLID SURFACE COUNTER TOP WITH BACK SPLASH @ TRAINING ROOM	27.00	LF	168.00	4,536
SOLID SURFACE COUNTER TOP WITH BACK SPLASH @ TRANSACTION COUNTERS	32.00	LF	168.00	5,376
SOLID SURFACE RESTROOM VANITY	53.00	LF	168.00	8,904
*** Total Solid Surface Fabrications				32,088
Other Wood & Plastics				
STAINLESS STEEL COUNTERTOPS @ WET ROOMS	28.00	LF	225.00	6,300
*** Total Other Wood & Plastics				6,300
** Total 06.02 - ARCHITECTURAL WOODWORK/MILLW				72,303
06.06 - ROUGH CARPENTRY				
Roof Blocking				
ROOF BLOCKING - PLYWOOD SHEATHING - 3/4" @ METAL FASCIA	1,024.00	SF	2.67	2,737
ROOF BLOCKING - 2 x 8 TREATED WOOD BLOCKING	1,620.00	LF	3.81	6,167
*** Total Roof Blocking				8,904
Millwork Blocking				
MILLWORK - 2 x 6 FIRE TREATED WOOD BLOCKING	300.00	LF	4.11	1,232
SHADES - 2 x 6 FIRE TREATED WOOD BLOCKING	40.00	LF	4.11	164

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
*** Total Millwork Blocking				1,396
Other Blocking & Grounds				
OTHER BLOCKING - FIRE TREATED PLYWOOD - 1/2"	68.00	SF	3.71	252
OTHER BLOCKING - 2 x 4 FIRE TREATED WOOD BLOCKING @ ALL OFFICES & CONFERENCE ROOMS	1,600.00	LF	3.76	6,017
CANOPY - 2 x 8 FIRE TREATED WOOD BLOCKING	576.00	LF	4.75	2,736
*** Total Other Blocking & Grounds				9,006
** Total 06.06 - ROUGH CARPENTRY				19,306
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALANTS				
PVC Flashings				
40 MIL SELF ADHERED TO 12" @ CANOPIES	576.00	LF	5.00	2,880
BASE LAP FLASHING @ CMU	712.00	LF	5.00	3,560
40 MIL SELF ADHERED TO 12" @ OPENINGS	1,079.00	LF	5.00	5,395
*** Total PVC Flashings				11,835
Aluminum Flashings				
ALUMINUM COUNTER FLASHING	580.00	LF	6.50	3,770
*** Total Aluminum Flashings				3,770
Fluid Applied Waterproofing				
FLUID APPLIED BITUMEN MODIFIED POLYURETHANE	3,435.00	SF	1.75	6,011
*** Total Fluid Applied Waterproofing				6,011
Bentonite Waterproofing				
BENTONITE WATERPROOFING AT ELEVATOR PIT	1.00	LS	4,800.00	4,800
*** Total Bentonite Waterproofing				4,800
Water Repellents				
FLUID APPLIED VAPOR AND AIR BARRIER @ CMU	14,360.00	SF	4.55	65,338
FLUID APPLIED VAPOR AND AIR BARRIER @ MWP	4,408.00	SF	4.55	20,056
*** Total Water Repellents				85,394
Building Facade Joint Sealants				
JOINT SEALANTS @ EIFS	1,854.00	LF	2.60	4,820
JOINT SEALANTS @ MWP TO CMU TRANSITION	81.00	LF	2.60	211
JOINT SEALANTS ON SIDEWALK	708.00	LF	2.60	1,841
VERTICAL JOINT SEALANTS @ CMU	962.00	LF	2.60	2,501
JOINT SEALANT @ EXTERIOR DOORS	17.00	EA	25.00	425
JOINT SEALANT @ WINDOWS & STOREFRONTS	64.00	EA	25.00	1,600
*** Total Building Facade Joint Sealants				11,398
** Total 07.01 - WATERPROOF / DAMPPROOF / JOI				123,209
07.02 - INSULATION				
Rigid Insulation				
RIGID INSULATION - MASONRY	13,923.00	SF	1.85	25,758
RIGID INSULATION - MWP	1,819.00	SF	2.89	5,257
*** Total Rigid Insulation				31,014
Insulation Batts				
ENCAPSULATED BATT INSULATION R-30 @ WAREHOUSE DECK	4,586.00	SF	1.50	6,879
*** Total Insulation Batts				6,879
** Total 07.02 - INSULATION				37,893
07.03 - ROOFING				
Gutters & Downspouts				
GUTTER - 6" GALVANIZED	1,335.00	LF	7.00	9,345
DOWNSPOUT - 6" GALVANIZED	80.00	LF	7.00	560
*** Total Gutters & Downspouts				9,905
Flashings & Trim				
FLASHING AROUND MECHANICAL EQUIPENT	259.00	LF	4.00	1,036
*** Total Flashings & Trim				1,036

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
Type: GMP

Est Date: 08/29/2016
Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost
Membrane Roofing				
PVC MEMBRANE ROOF -80 MIL FULLY ADHERED - UPDATED PER 09/13 MTG	25,231.00	SF	9.52	240,199
PVC MEMBRANE ROOF FLASHING - EXTEND @ MECH CURBS	259.00	SF	15.00	3,885
*** Total Membrane Roofing				244,084
Roof Insulation				
POLYISOCYURATE - TAPERED FOR DRAINAGE	25,231.00	SF	3.00	75,693
*** Total Roof Insulation				75,693
Gutters & Downspouts				
PARAPET CAP / COPING - 12" WIDE	756.00	LF	12.00	9,072
*** Total Gutters & Downspouts				9,072
Roof Flashings				
GALVALUME FLASHING	2,818.00	LF	6.00	16,908
SADDLE FLASHING & THERMOPLASTIC BOOTS @ WALL RISER (NEW ADDENDUM DETAILS)	3.00	EA	35.00	105
COUNTER FLASHING @ MECH CURBS	259.00	SF	3.50	907
SCUPPER - ALUMINUM	24.00	EA	100.00	2,400
*** Total Roof Flashings				20,320
Roof Accessories				
ROOF WALKWAY PADS	2,512.00	SF	3.13	7,850
*** Total Roof Accessories				7,850
** Total 07.03 - ROOFING				367,960
07.05 - METAL ROOF & WALL PANELS				
Metal Wall Panels				
METAL WALL PANELS	2,541.00	SF	20.00	50,820
METAL WALL PANELS - CUSTOM PREFINISH PAINT COLOR ALLOWANCE - UPDATED PER 09/13 MTG	1.00	LS	10,000.00	10,000
SCAFFOLDING FOR EXTERIOR WALL PANELS	2,541.00	SF	1.00	2,541
METAL WALL PANELS - SCREEN WALL	1,867.00	SF	30.00	56,010
*** Total Metal Wall Panels				119,371
Metal Soffit Panels				
METAL SOFFIT PANELS	7,556.00	SF	20.00	151,120
*** Total Metal Soffit Panels				151,120
Flashings & Trim				
ALUMINUM DRIP EDGE BELOW FLASHING	600.00	LF	1.20	720
*** Total Flashings & Trim				720
** Total 07.05 - METAL ROOF & WALL PANELS				271,211
07.07 - ROOF ACCESSORIES				
Roof Hatches				
ROOF HATCH - 3x3 - UPDATED PER 09/13 MTG		EA	550.00	
*** Total Roof Hatches				
Install Roof Hatches				
INSTALL ROOF HATCHES - 3x3 - UPDATED PER 09/13 MTG		EA	154.36	
*** Total Install Roof Hatches				
** Total 07.07 - ROOF ACCESSORIES				
08.01 - HOLLOW METAL				
Door Frames				
3070 HOLLOW METAL FRAME	2.00	EA	149.00	298
3070 HOLLOW METAL FRAME - 60 MIN	6.00	EA	186.00	1,116
3070 HOLLOW METAL FRAME - TYPE A.	78.00	EA	340.00	26,520
3070 HOLLOW METAL FRAME - TYPE A. - 45 MIN RATED	11.00	EA	375.00	4,125
3070 HOLLOW METAL FRAME @ CLOSETS	10.00	EA	149.00	1,490
6070 HOLLOW METAL FRAME - 60 MIN.	4.00	EA	242.00	968
6070 HOLLOW METAL FRAME.	13.00	EA	194.00	2,522
6670 HOLLOW METAL FRAME.	1.00	EA	194.00	194
*** Total Door Frames				37,233

Williamson County - North Campus Facility

Loc: Georgetown, Texas

Est Date: 08/29/2016

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Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
Window Frames				
6070 HOLLOW METAL FRAME - TRANSOM - TYPE E.	4.00	EA	520.00	2,080
6070 HOLLOW METAL FRAME - TRANSOM - TYPE F.	1.00	EA	520.00	520
6070 HOLLOW METAL FRAME - TRANSOM - TYPE G.	2.00	EA	520.00	1,040
6070 HOLLOW METAL FRAME - TRANSOM - TYPE G2.	3.00	EA	520.00	1,560
*** Total Window Frames				5,200
Doors				
3070 HOLLOW METAL DOOR	42.00	EA	300.00	12,600
3070 HOLLOW METAL DOOR - 45 MINUTE	9.00	EA	350.00	3,150
3070 HOLLOW METAL DOOR - 45 MINUTE INSULATED	3.00	EA	400.00	1,200
3070 HOLLOW METAL DOOR - 60 MINUTE	2.00	EA	350.00	700
3070 HOLLOW METAL DOOR - INSULATED	15.00	EA	300.00	4,500
3070 HOLLOW METAL DOOR - INSULATED WITH VISION LITES	2.00	EA	300.00	600
3370 HOLLOW METAL DOOR H102A	2.00	EA	320.00	640
*** Total Doors				23,390
** Total 08.01 - HOLLOW METAL				65,823
08.05 - PLASTIC LAMINATE DOORS				
Solid Core Plam Doors				
3070 PLASTIC LAMINATE DOOR - SOLID CORE	68.00	EA	225.00	15,300
3070 PLASTIC LAMINATE DOOR - 45 MINUTE FIRE RATED	5.00	EA	360.00	1,800
*** Total Solid Core Plam Doors				17,100
** Total 08.05 - PLASTIC LAMINATE DOORS				17,100
08.10 - OVERHEAD DOORS/COILING GRILLS				
Subcontractor				
OVERHEAD & COILING DOOR SUB BID	1.00	LS		
*** Total Subcontractor				
Overhead Doors				
INSULATED OVERHEAD COILING DOOR- 14x14 - UPDATED PER 09/13 MTG	1.00	EA	6,800.00	6,800
PREMIUM FOR MOTOR OPERATIONS TO 14x14	1.00	EA	1,475.00	1,475
*** Total Overhead Doors				8,275
** Total 08.10 - OVERHEAD DOORS/COILING GRILL				8,275
08.15 - AUTOMATIC DOORS				
Automatic Door Operators				
OPENERS, AUTOMATIC SWING DOORS - PAIR *** ASSUMPTION FROM DD, NOT NOTED ON DWGS OR SPECS		SCOPE	4,000.00	
*** Total Automatic Door Operators				
** Total 08.15 - AUTOMATIC DOORS				
08.28 - GLASS & GLAZING				
Aluminum Windows				
TYPE K 2 x 2 SINGLE HUNG WINDOW	6.00	EA	300.00	1,800
*** Total Aluminum Windows				1,800
Glass Doors & Entrances				
PAIR ALUMINUM ENTRANCE DOOR & FRAME-(2)3070	4.00	PAIR	3,800.00	15,200
INSULATED GLAZING @ EXT TRANSOM - FRAME TYPE E, F & G	70.00	SF	40.00	2,800
*** Total Glass Doors & Entrances				18,000
Aluminum Punch Windows				
TYPE C - 6'x8' ALUMINUM PUNCH RIBBON WINDOW (18 EA)	912.00	SF	55.00	50,160
*** Total Aluminum Punch Windows				50,160
Storefront Window Systems				
STOREFRONT GLAZING SYSTEMS - EXTERIOR "A" (3 EA)	290.00	SF	55.00	15,950

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Description	Quantity	UM	Tot.UnitCost	TotalCost
STOREFRONT GLAZING SYSTEMS - EXTERIOR "K" (1 EA)	260.00	SF	55.00	14,300
STOREFRONT GLAZING SYSTEMS - EXTERIOR TYPE "B" (4 EA)	380.00	SF	55.00	20,900
STOREFRONT GLAZING SYSTEMS - EXTERIOR TYPE "H" (1 EA)	155.00	SF	55.00	8,525
TYPE G - 4'X6 WINDOW - EXTERIOR (30 EA)	720.00	SF	55.00	39,600
ONE WAY MIRROR WINDOWS - TYPE "D" (4 EA)	75.00	SF	55.00	4,125
STOREFRONT GLAZING SYSTEMS - INTERIOR @ VESTIBULE	46.00	SF	55.00	2,530
STOREFRONT GLAZING SYSTEMS - INTERIOR	208.00	SF	55.00	11,440
*** Total Storefront Window Systems				117,370
Interior Glass				
FIRE RATED GLASS IN FRAMES BY OTHERS - FRAME TYPE A	176.00	SF	10.00	1,760
TEMPERED GLASS IN FRAMES BY OTHERS - FRAME TYPE A	1,248.00	SF	10.00	12,480
TEMPERED GLASS IN FRAMES BY OTHERS - FRAME TYPE E	14.00	SF	10.00	140
TEMPERED GLASS IN FRAMES BY OTHERS - FRAME TYPE G & G2	78.00	SF	10.00	780
TEMPERED GLASS IN DOORS (LARGE SIZE) DOOR TYPE C	14.00	EA	200.00	2,800
*** Total Interior Glass				17,960
** Total 08.28 - GLASS & GLAZING				205,290
08.34 - FINISH HARDWARE				
Hardware Sets				
CLOSET DOOR HARDWARE SET - ALLOWANCE PER LEAF	10.00	EA	200.00	2,000
DOOR HARDWARE SET - ALLOWANCE PER LEAF	135.00	EA	620.00	83,700
DOOR HARDWARE SET #2	1.00	EA		
DOOR HARDWARE SET #3	3.00	EA		
DOOR HARDWARE SET #4	1.00	EA		
DOOR HARDWARE SET #6	7.00	EA		
DOOR HARDWARE SET #7	4.00	EA		
DOOR HARDWARE SET #9	1.00	EA		
DOOR HARDWARE SET #12	1.00	EA		
DOOR HARDWARE SET #12.1	48.00	EA		
DOOR HARDWARE SET #13.1	2.00	EA		
DOOR HARDWARE SET #15	3.00	EA		
DOOR HARDWARE SET #16	9.00	EA		
DOOR HARDWARE SET #17	6.00	EA		
DOOR HARDWARE SET #18	1.00	EA		
DOOR HARDWARE SET #21.1	1.00	EA		
DOOR HARDWARE SET #22	5.00	EA		
DOOR HARDWARE SET #23	6.00	EA		
DOOR HARDWARE SET #24	2.00	EA		
DOOR HARDWARE SET #25	2.00	EA		
DOOR HARDWARE SET #26	1.00	EA		
DOOR HARDWARE SET #27	2.00	EA		
DOOR HARDWARE SET #28	1.00	EA		
DOOR HARDWARE SET #29	1.00	EA		
DOOR HARDWARE SET #30	2.00	EA		
DOOR HARDWARE SET #30.1	2.00	EA		
DOOR HARDWARE SET #31	6.00	EA		
DOOR HARDWARE SET #32	4.00	EA		
DOOR HARDWARE SET #33	1.00	EA		
DOOR HARDWARE SET #34	1.00	EA		
DOOR HARDWARE SET #35	5.00	EA		
*** Total Hardware Sets				85,700
Door Hardware				
PROVIDE SEALS PK55 FOR SOUND CONTROL PER NOTE 7 ON DOOR SCHEDULE	54.00	EA	65.00	3,510
DOOR SWEEPS PER NOTE 1 ON DOOR SCHEDULE	31.00	EA	25.00	775
*** Total Door Hardware				4,285
** Total 08.34 - FINISH HARDWARE				89,985

08.38 - DOOR & HARDWARE INSTALLATION

Door Distribution

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
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Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost
DISTRIBUTE HOLLOW METAL DOORS	92.00	EA	14.31	1,316
*** Total Door Distribution				1,316
Frame Distribution				
DISTRIBUTE HOLLOW METAL FRAMES	109.00	EA	14.31	1,559
*** Total Frame Distribution				1,559
Set Hollow Metal Doors				
SET HOLLOW METAL DOORS	82.00	EA	39.00	3,198
*** Total Set Hollow Metal Doors				3,198
Plastic Laminate Door Distribution				
DISTRIBUTE DOORS	10.00	EA	10.00	100
*** Total Plastic Laminate Door Distribution				100
Set Plastic Laminate Doors				
SET PLAM DOORS	10.00	EA	38.94	389
*** Total Set Plastic Laminate Doors				389
Wood Door Distribution				
DISTRIBUTE DOORS	53.00	EA	14.28	757
*** Total Wood Door Distribution				757
Set Wood Doors				
SET DOORS	53.00	EA	38.94	2,064
*** Total Set Wood Doors				2,064
Install Hardware Sets				
LABOR TO SET	145.00	EA	216.32	31,367
UNLOAD AND DISTRIBUTE HARDWARE SETS	145.00	EA	38.94	5,646
*** Total Install Hardware Sets				37,012
** Total 08.38 - DOOR & HARDWARE INSTALLATION				46,396
09.01 - PLASTER				
Plaster Ceilings				
PLASTER CEILING - INTEGRAL COLOR	858.00	SF	20.00	17,160
PLASTER SOFFITS	63.00	SF	20.00	1,260
INCLUDES SCAFFOLD FOR PLASTER AND EIFS	858.00	SF	1.00	858
*** Total Plaster Ceilings				19,278
Plaster Walls				
PLASTER WALL	3,585.00	SF	16.00	57,360
*** Total Plaster Walls				57,360
** Total 09.01 - PLASTER				76,638
09.02 - DRYWALL				
Other Wood & Plastics				
FRP @ JANITOR & RESTROOMS	350.00	SF	11.20	3,920
*** Total Other Wood & Plastics				3,920
Interior Partitions to Deck, One Layer Ea Side				
TO 12' -20 GA.3 5/8"@16",1 EA 5/8"GYP EA. SIDE - TYPE B	210.00	LF	68.00	14,280
TO 12' -20 GA.3 5/8"@16",1 EA 5/8"GYP EA. SIDE - TYPE B	210.00	LF	172.20	36,162
TO 12' -20 GA.3 5/8"@16",1 EA 5/8"GYP EA. SIDE - TYPE B1 1 HR	303.00	LF	68.00	20,604
TO 12' -20 GA.3 5/8"@16",1 EA 5/8"GYP EA. SIDE - TYPE B1 1 HR	303.00	LF	172.20	52,177
TO 12' -20 GA.8"@16",1 EA 5/8"GYP EA. SIDE - TYPE D1 1 HR	101.00	LF	16.80	1,697
TO 12' -20 GA.8"@16",1 EA 5/8"GYP EA. SIDE - TYPE D1 1 HR	101.00	LF	153.00	15,453
TO 12' -20 GA.8"@16",1 EA 5/8"GYP EA. SIDE - TYPE Ds	70.00	LF	153.00	10,710
TO 12' -20 GA.8"@16",1 EA 5/8"GYP EA. SIDE - TYPE Ds	70.00	LF	214.20	14,994
*** Total Interior Partitions to Deck, One La				166,076
Interior Partitions to Deck, Two Layers Ea Side				
TO 12' -20 GA.3 5/8"@16",2 EA 5/8"GYP EA. SIDE - TYPE H1 1HR	85.00	LF	138.60	11,781
TO 12' -20 GA.3 5/8"@16",2 EA 5/8"GYP EA. SIDE - TYPE H1 1HR	85.00	LF	72.00	6,120

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Description	Quantity	UM	Tot.UnitCost	TotalCost
TO 12' -20 GA.3 5/8"@16",2 EA 5/8"GYP EA. SIDE - TYPE Hs	1,409.00	LF	72.00	101,448
TO 12' -20 GA.3 5/8"@16",2 EA 5/8"GYP EA. SIDE - TYPE Hs	1,409.00	LF	138.60	195,287
TO 12' -20 GA.6"@16",2 EA 5/8"GYP EA. SIDE - TYPE Gs	87.00	LF	88.00	7,656
TO 12' -20 GA.6"@16",2 EA 5/8"GYP EA. SIDE - TYPE Gs	87.00	LF	123.20	10,718
TO 12' -20 GA.8"@16",2 EA 5/8"GYP EA. SIDE - TYPE Fs	143.00	LF	188.00	26,884
TO 12' -20 GA.8"@16",2 EA 5/8"GYP EA. SIDE - TYPE Fs	143.00	LF	263.20	37,638
*** Total Interior Partitions to Deck, Two La				397,532
Shaftwalls				
1 HOUR SHAFTWALL TO 12' - TYPE L1	76.00	LF	98.00	7,448
1 HOUR SHAFTWALL TO 12' - TYPE L1	76.00	LF	137.20	10,427
1 HOUR SHAFTWALL TO 12' - TYPE M1	100.00	LF	98.00	9,800
1 HOUR SHAFTWALL TO 12' - TYPE M1	100.00	LF	137.20	13,720
1 HOUR SHAFTWALL TO 12' - TYPE N1	27.00	LF	98.00	2,646
1 HOUR SHAFTWALL TO 12' - TYPE N1	27.00	LF	137.20	3,704
*** Total Shaftwalls				47,746
Chase Walls, One Layer Ea Side				
2 TO 12'-20 GA.3 5/8"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE E	75.00	LF	88.00	6,600
2 TO 12'-20 GA.3 5/8"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE E	75.00	LF	123.20	9,240
2 TO 12'-20 GA.12"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE Y	4.00	LF	214.20	857
2 TO 12'-20 GA.12"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE Y	4.00	LF	123.00	492
2 TO 12'-20 GA.12"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE Y 1 HR	4.00	LF	214.20	857
2 TO 12'-20 GA.12"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE Y 1 HR	4.00	LF	123.00	492
2 TO 12'-20 GA.12"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE Ys SOUND WALL	20.00	LF	123.00	2,460
2 TO 12'-20 GA.12"@16",1 EA 5/8"GYP EA. FINISH SIDE - TYPE Ys SOUND WALL	20.00	LF	214.20	4,284
*** Total Chase Walls, One Layer Ea Side				25,282
Chase Walls, Two Layers Ea Side				
2 TO 12'-20 GA.3 5/8"@16",2 EA 5/8"GYP EA. FINISH SIDE - TYPE A1	180.00	LF	99.00	17,820
2 TO 12'-20 GA.3 5/8"@16",2 EA 5/8"GYP EA. FINISH SIDE - TYPE A1	180.00	LF	138.60	24,948
*** Total Chase Walls, Two Layers Ea Side				42,768
Partitions to Grid, One Layer Ea Side				
TO 12' -20 GA.3 5/8"@16",1 EA 5/8"GYP EA. SIDE - TYPE C	25.00	LF	120.40	3,010
TO 12' -20 GA.3 5/8"@16",1 EA 5/8"GYP EA. SIDE - TYPE C	25.00	LF	86.00	2,150
*** Total Partitions to Grid, One Layer Ea Si				5,160
Drywall Ceilings				
DRYWALL CEILING - 1 LAYER GYP TO 8' HEIGHT	5,677.00	SF	16.80	95,374
*** Total Drywall Ceilings				95,374
Drywall Furrdowns				
FURRDOWN - 3' WIDE	55.00	LF	138.60	7,623
*** Total Drywall Furrdowns				7,623
Insulation by Drywall				
ACOUSTICAL WALL INSULATION - 2 "	890.00	SF	2.80	2,492
ACOUSTICAL CEILING INSULATION - R30	4,549.00	SF	2.80	12,737
*** Total Insulation by Drywall				15,229
Acoustical Ceilings				
STANDARD 2 x 2 ACOUSTICAL CEILING	20,218.00	SF	8.40	169,831
2x4 WASHABLE FACE CEILING TILE @ WET AREAS	1,239.00	SF	11.20	13,877
*** Total Acoustical Ceilings				183,708
** Total 09.02 - DRYWALL				990,418

09.03 - TILE

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
Waterproofing				
WATERPROOFING MEMBRANE	1,468.00	SF	4.55	6,679
*** Total Waterproofing				6,679
Ceramic tile				
FLOOR TILE - 2X2- COLOR GROUP 1 - UPDATED PER 09/13 MTG	1,468.00	SF	12.00	17,616
TILE @ STAIRS	245.00	SF	12.00	2,940
TILE BASE @ ENTRY HALL	131.00	LF	8.00	1,048
WALL TILE - 4x4	5,440.00	SF	12.00	65,280
*** Total Ceramic tile				86,884
Tile Scope Items				
FLOOR PROTECTION	1,468.00	SF	0.96	1,408
*** Total Tile Scope Items				1,408
** Total 09.03 - TILE				94,971
09.07 - CARPET, VINYL FLOORING, & BASE				
VCT				
LVT	8,892.00	SF	4.25	37,791
STATIC DISAPLATIVE VCT @ SERVER ROOM	92.00	SF	4.25	391
*** Total VCT				38,182
Carpet Tile				
CARPET TILE	15,453.00	SF	4.24	65,505
*** Total Carpet Tile				65,505
Resilient Base				
RUBBER BASE	6,120.00	LF	1.10	6,732
*** Total Resilient Base				6,732
Stair Coverings				
RUBBER STAIR TREADS	192.00	LF	32.00	6,144
RUBBER LANDING MATERIAL	75.00	SF	26.75	2,006
*** Total Stair Coverings				8,150
** Total 09.07 - CARPET, VINYL FLOORING, & BA				118,569
09.10 - EPOXY FLOORING				
Epoxy Flooring				
MOISTURE VAPOR BARRIER	2,536.00	SF	2.90	7,354
SEAMLESS EPOXY FLOORING	2,536.00	SF	9.50	24,092
SEAMLESS EPOXY FLOORING INTEGRAL BASE	325.00	LF	6.25	2,031
*** Total Epoxy Flooring				33,478
** Total 09.10 - EPOXY FLOORING				33,478
09.12 - PAINTING				
Wallcoverings				
PURCHASE FRP KEMLITE STANDARD INSTALLED BY VCC	400.00	SF	1.50	600
INSTALL FRP KEMLITE	400.00	SF	1.10	440
*** Total Wallcoverings				1,040
Paint Drywall				
PAINT DRYWALL PARTITIONS	54,482.00	SF	1.10	59,930
PAINT DRYWALL CEILINGS	5,677.00	SF	1.23	6,983
*** Total Paint Drywall				66,913
Paint Masonry				
BLOCK FILLER	7,880.00	SF	0.50	3,940
*** Total Paint Masonry				3,940
Paint Concrete				
EPOXY PAINT CONCRETE WALLS	7,880.00	SF	1.25	9,850
*** Total Paint Concrete				9,850
Paint Doors & Frames				
PAINT HOLLOW METAL FRAMES	145.00	EA	50.00	7,250
PAINT HOLLOW METAL DOORS	30.00	EA	50.00	1,500
*** Total Paint Doors & Frames				8,750
Paint Steel Members				

Williamson County - North Campus Facility

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Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
PAINT STEEL GATE	5.00	EA	150.00	750
*** Total Paint Steel Members				750
MEP Painting				
PAINT EXPOSED STRUCTURE ABOVE	4,659.00	SF	2.00	9,318
*** Total MEP Painting				9,318
Paint Preparation				
TAPE & FLOAT BY PAINTER	178,884.00	SF	1.30	232,549
*** Total Paint Preparation				232,549
** Total 09.12 - PAINTING				333,111
09.16 - CONCRETE SEALER				
Concrete Sealer				
CONCRETE SEALER - TWO COATS	4,549.00	SF	2.10	9,553
CONCRETE SEALER - TWO COATS	4,549.00	SF	1.10	5,004
*** Total Concrete Sealer				14,557
** Total 09.16 - CONCRETE SEALER				14,557
10.02 - PROJECTION SCREENS				
Motorized Projection Screens				
PROJECTION SCREEN - 60"x80"	2.00	EA	1,610.00	3,220
MOTORIZED - UPDATED PER 09/13 MTG				
PROJECTION SCREEN SUPPORTS -	2.00	EA	350.00	700
UPDATED PER 09/13 MTG				
PROJECTION SCREEN HOOKUP - UPDATED	2.00	EA	200.00	400
PER 09/13 MTG				
*** Total Motorized Projection Screens				4,320
Install Projection Screens				
INSTALL MOTORIZED PROJECTION	2.00	EA	444.60	889
SCREENS - UPDATED PER 09/13 MTG				
*** Total Install Projection Screens				889
** Total 10.02 - PROJECTION SCREENS				5,209
10.03 - TOILET COMPARTMENTS				
Plastic Toilet Compartments				
HDPE TOILET COMPARTMENTS	16.00	EA	900.00	14,400
HDPE PLASTIC LAMINATE HANDICAP	4.00	EA	1,000.00	4,000
TOILET COMPARTMENTS				
HDPE URINAL SCREENS	4.00	EA	225.00	900
*** Total Plastic Toilet Compartments				19,300
Install Toilet Compartments				
INSTALL TOILET PARTITIONS	20.00	EA	111.15	2,223
INSTALL URINAL SCREEN	4.00	EA	111.15	445
*** Total Install Toilet Compartments				2,668
** Total 10.03 - TOILET COMPARTMENTS				21,968
10.04 - LOUVERS				
Louvers - Aluminum				
LOUVER - ALUMINUM KYNAR (2 EA) -		SF	35.00	
EXCLUDED UPDATED PER 09/13 MTG				
*** Total Louvers - Aluminum				
** Total 10.04 - LOUVERS				
10.05 - WALL PROTECTION				
Stainless Steel Wall Protection				
SURFACE MOUNT VYNYL CORNER GUARDS	33.00	EA	58.00	1,914
- 8' - UPDATED PER 09/13 MTG				
*** Total Stainless Steel Wall Protection				1,914
Plastic Wall Protection				
SOLID PLASTIC WALL PROTECTION	500.00	SF	3.61	1,806
*** Total Plastic Wall Protection				1,806
Other Wall Protection				
CRASH GUARD AT EMS WAREHOUSE	216.00	LF	40.00	8,640
*** Total Other Wall Protection				8,640
Install Wall Protection				
INSTALL CORNER GUARDS	33.00	EA	38.59	1,273

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
INSTALL CRASH GAURD AT EMS WAREHOUSE	216.00	LF	13.00	2,808
INSTALL SOLID PLASTIC WALL PROTECTION	500.00	SF	4.41	2,205
*** Total Install Wall Protection				6,287
** Total 10.05 - WALL PROTECTION				18,647
10.07 - FLAGPOLES				
Flagpoles				
FLAGPOLE - 30' ALUMINUM	3.00	EA	1,675.00	5,025
*** Total Flagpoles				5,025
** Total 10.07 - FLAGPOLES				5,025
10.08 - SIGNAGE				
Plaques				
DEDICATION PLAQUE - UPDATED PER 09/13 MTG	1.00	EA	1,392.00	1,392
*** Total Plaques				1,392
Miscellaneous Signage				
WAYFINDING SIGNAGE ALLOWANCE	10.00	EA	175.00	1,750
SIGNAGE ALLOWANCE PER OPENING	128.00	EA	125.00	16,000
*** Total Miscellaneous Signage				17,750
** Total 10.08 - SIGNAGE				19,142
10.10 - FIRE PROTECTION SPECIALTIES				
Fire Extinguisher Cabinets				
FIRE EXTINGUISHER W/CABINET	5.00	EA	220.00	1,100
*** Total Fire Extinguisher Cabinets				1,100
Install Fire Protection Specialties				
INSTALL FIRE EXTINGUISHER WITH CABINET	5.00	EA	28.81	144
*** Total Install Fire Protection Specialties				144
** Total 10.10 - FIRE PROTECTION SPECIALTIES				1,244
10.11 - ALUMINUM COVERS & AWNINGS				
Canopies - Anodized Aluminum				
CLEAR ANODIZED ALUMINUM CANOPY UNDER 500 SF	350.00	SF	52.00	18,200
*** Total Canopies - Anodized Aluminum				18,200
** Total 10.11 - ALUMINUM COVERS & AWNINGS				18,200
10.13 - WIRE MESH PARTITIONS				
Wire Mesh Partitions				
WIRE MESH PARTITIONS	63.00	LF	85.00	5,355
WIRE MESH PARTITION DOORS	3.00	EA	100.00	300
*** Total Wire Mesh Partitions				5,655
Install Wire Mesh Partitions				
INSTALL WIRE MESH PARTITIONS	63.00	LF	18.44	1,161
INSTALL WIRE MESH PARTITION DOORS	3.00	EA	92.18	277
*** Total Install Wire Mesh Partitions				1,438
** Total 10.13 - WIRE MESH PARTITIONS				7,093
10.14 - OPERABLE PARTITIONS				
Horizontal Operable Partitions				
HORIZONTAL OPERABLE WALL - 12' TALL	28.00	LF	1,220.00	34,160
HORIZONTAL OPERABLE WALL - 14' TALL	62.00	LF	550.00	34,100
*** Total Horizontal Operable Partitions				68,260
** Total 10.14 - OPERABLE PARTITIONS				68,260
10.16 - STORAGE SHELVING				
Metal Storage Shelving				
I-BEAM CANTILEVER RACK	164.00	EA	699.34	114,692
*** Total Metal Storage Shelving				114,692
** Total 10.16 - STORAGE SHELVING				114,692
10.17 - TOILET ACCESSORIES				
Grab Bars				

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Description	Quantity	UM	Tot.UnitCost	TotalCost
GRAB BARS - 36" SATIN FINISH,EXPOSED MTD.	6.00	EA	29.50	177
GRAB BARS - 42" SATIN FINISH,EXPOSED MTD.	6.00	EA	38.50	231
*** Total Grab Bars				408
Paper Towel Dispensers				
PAPER TOWEL DISPENSER W/WASTE RECEPT REC MTD - LARGE	10.00	EA	350.00	3,500
*** Total Paper Towel Dispensers				3,500
Toilet Paper Dispensers				
TOILET TISSUE DISPENSER, EXPOSED, SURFACE MTD	23.00	EA	30.00	690
*** Total Toilet Paper Dispensers				690
Napkin/Vendor Dispensers				
NAPKIN/TAMPON VENDOR SURFACE MTD	2.00	EA	350.00	700
*** Total Napkin/Vendor Dispensers				700
Sanitary Napkin Disposals				
SANITARY NAPKIN DISPOSAL SURFACE MTD - OPEN FROM TOP	10.00	EA	30.00	300
TOILET SEAT COVER DISPENSER SURFACE MTD - EXCLUDED - UPDATED PER 09/13 MTG		EA	40.00	
*** Total Sanitary Napkin Disposals				300
Soap Dispensers				
SOAP DISPENSER - SURFACE MTD	23.00	EA	45.00	1,035
*** Total Soap Dispensers				1,035
Diaper Changing Stations				
DIAPER CHANGING STATION- EXCLUDED - UPDATED PER 09/13 MTG		EA	350.00	
*** Total Diaper Changing Stations				
Hand Dryers				
HAND DRYER, AUTO PILOT SURFACE MTD - UPDATED PER 09/13 MTG	8.00	EA	1,300.00	10,400
*** Total Hand Dryers				10,400
Install Toilet Accessories				
INSTALL GRAB BARS	12.00	EA	14.40	173
INSTALL PAPER TOWEL DISPENSER WITH WASTE RECEPTICLE	10.00	EA	21.61	216
INSTALL TOILET TISSUE DISPENSER	23.00	EA	21.61	497
INSTALL NAPKIN/TAMPON DISPENSER	2.00	EA	14.40	29
INSTALL TOILET SEAT COVER DISPENSER		EA	14.40	
INSTALL DIAPER CHANGING STATION		EA	14.40	
INSTALL HAND DRYER	8.00	EA	43.21	346
*** Total Install Toilet Accessories				1,260
** Total 10.17 - TOILET ACCESSORIES				18,293
11.08 - RESIDENTIAL APPLIANCES				
Residential Appliances				
MICROWAVE - EXCLUDED - UPDATED PER 09/13 MTG		EA	300.00	
WASHER	1.00	EA	500.00	500
DRYER	1.00	EA	450.00	450
ICEMAKER	1.00	EA	6,250.00	6,250
*** Total Residential Appliances				7,200
Install Residential Appliances				
INSTALL MICROWAVE		EA	38.59	
INSTALL WASHER	1.00	EA	38.59	39
INSTALL DRYER	1.00	EA	38.59	39
INSTALL ICEMAKER	1.00	EA	38.59	39
*** Total Install Residential Appliances				116
** Total 11.08 - RESIDENTIAL APPLIANCES				7,316
11.14 - MISCELLANEOUS EQUIPMENT VENDOR				
Miscellaneous Medical Equipment				
GAS CYLINDER BRACKETS	1.00	EA	1,200.00	1,200
*** Total Miscellaneous Medical Equipment				1,200

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Install Miscellaneous Medical Equipment				
INSTALL GAS CYLINDER BRACKETS	1.00	EA	308.72	309
*** Total Install Miscellaneous Medical Equip				309
Miscellaneous Equipment				
DEFIBRILATOR	1.00	EA	3,400.00	3,400
*** Total Miscellaneous Equipment				3,400
** Total 11.14 - MISCELLANEOUS EQUIPMENT VEND				4,909
11.16 - TV BRACKETS				
TV Supports				
TV BRACKETS - WALL MTD (PEERLESS JUMBO 2000)	20.00	EA	145.00	2,900
*** Total TV Supports				2,900
Install Equipment Supports				
INSTALL TV BRACKET - PEERLESS	20.00	EA	38.59	772
*** Total Install Equipment Supports				772
** Total 11.16 - TV BRACKETS				3,672
12.04 - FLOOR MATS AND FRAMES				
Floor Mats, Frames & Grates				
4x6 ENTRANCE MAT - ALUMINUM - EXCLUDED - UPDATED PER 09/13 MTG		EA	860.00	
*** Total Floor Mats, Frames & Grates				
Install Floor Mats, Frames & Grates				
INSTALL 4x6 ENTRANCE MAT - EXCLUDED - UPDATED PER 09/13 MTG		EA	102.91	
*** Total Install Floor Mats, Frames & Grates				
** Total 12.04 - FLOOR MATS AND FRAMES				
12.05 - BLINDS AND SHADES				
Blinds & Shades				
MINI BLINDS	2,654.00	SF	5.00	13,270
*** Total Blinds & Shades				13,270
Mecho Shades				
MOTORIZED MECO SHADES @ TRAINING ROOMS	340.00	SF	12.00	4,080
MOTORIZED BLACKOUT MECO SHADES @ TRAINING ROOMS	340.00	SF	17.50	5,950
*** Total Mecho Shades				10,030
** Total 12.05 - BLINDS AND SHADES				23,300
14.01 - ELEVATORS				
Hydraulic Elevator				
HYDRAULIC PASSENGER ELEVATOR	2.00	STOPS	32,000.00	64,000
INCLUDES DRILLING JACK HOLE	1.00	EA		
*** Total Hydraulic Elevator				64,000
Elevators Scope Items				
TEMPORARY USE OF ELEVATOR	3.00	MO	750.00	2,250
*** Total Elevators Scope Items				2,250
** Total 14.01 - ELEVATORS				66,250
21.01 - FIRE PROTECTION				
Sprinkler Systems				
INSTITUTIONAL BASE FIRE PROTECTION	37,000.00	SF	2.75	101,750
INSTITUTIONAL BASE FIRE PROTECTION - DRY TYPE BELOW CANOPY	3,200.00	SF	5.75	18,400
*** Total Sprinkler Systems				120,150
** Total 21.01 - FIRE PROTECTION				120,150
22.01 - PLUMBING				
Site Plumbing Structures				
GREASE INTERCEPTOR - 1000 GAL. - SHOWN AS FUTURE	1.00	EA		
SAMPLING WELL - SHOWN AS FUTURE	1.00	EA		
SAND-OIL INTERCEPTOR	1.00	EA	7,500.00	7,500

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Description	Quantity	UM	Tot.UnitCost	TotalCost
STORMWATER HARVESTING TANK (FIBERGLASS) - 10000 GAL - ABOVE GROUND		EA	15,000.00	
*** Total Site Plumbing Structures				7,500
Building Plumbing				
INSTITUTIONAL BASE PLUMBING	37,000.00	SF		
*** Total Building Plumbing				
Domestic Water Piping				
L-Cu DIST. PIPING 1/2"	240.00	LF	34.00	8,160
L-Cu DIST. PIPING 3/4"	32.00	LF	40.00	1,280
L-Cu DIST. PIPING 1"	22.00	LF	49.00	1,078
L-Cu DIST. PIPING 1 1/2"	50.00	LF	53.00	2,650
L-Cu DIST. PIPING 2"	56.00	LF	58.00	3,248
L-Cu DIST. PIPING 3"	207.00	LF	124.00	25,668
*** Total Domestic Water Piping				42,084
Cleanouts & Specialties				
BACKFLOW PREVENTER 2 1/2" > 3"	1.00	EA	1,450.00	1,450
*** Total Cleanouts & Specialties				1,450
Sanitary Waste & Vent Piping				
C.I. WASTE & VENT ABOVE GROUND 2"	12.00	LF	34.00	408
C.I. WASTE & VENT ABOVE GROUND 3"	66.00	LF	39.00	2,574
C.I. WASTE & VENT ABOVE GROUND 4"	30.00	LF	49.00	1,470
C.I. WASTE & VENT UNDERGROUND 2"	84.00	LF	45.00	3,780
C.I. WASTE & VENT UNDERGROUND 3"	223.00	LF	52.00	11,596
C.I. WASTE & VENT UNDERGROUND 4"	680.00	LF	65.00	44,200
EXCAVATION & BACKFILL	1,095.00	LF	26.00	28,470
*** Total Sanitary Waste & Vent Piping				92,498
Floor Drains, Cleanouts, & Specialties				
FLOOR CLEANOUT 4"	8.00	EA	275.00	2,200
WALL CLEANOUT 4"	2.00	EA	250.00	500
YARD CLEANOUT 4"	3.00	EA	250.00	750
OIL DETECTION SYSTEM WITH DIVERTER VALVE	1.00	EA		
*** Total Floor Drains, Cleanouts, & Specialt				3,450
Sump Pumps				
SUMP PUMP DUPLEX W/ BASIN, 2 HP	1.00	EA	12,800.00	12,800
*** Total Sump Pumps				12,800
Natural Gas Piping				
BLACK STEEL NAT. GAS PIPING 1 1/2"	55.00	LF	30.00	1,650
BLACK STEEL NAT. GAS PIPING 2"	150.00	LF	32.00	4,800
BLACK STEEL NAT. GAS PIPING 2-1/2"	40.00	LF	36.00	1,440
BLACK STEEL NAT. GAS PIPING 3"	125.00	LF	40.00	5,000
*** Total Natural Gas Piping				12,890
Fixtures, Drains, Connections				
WC - WATER CLOSET, FLR MNTD, FLUSH VALVE	17.00	EA	1,711.00	29,087
WCH - WATER CLOSET, FLR MNTD, FLUSH VALVE	6.00	EA	1,711.00	10,266
AUTOMATIC FLUSH SENSOR & OPERATOR FOR WATER CLOSET	23.00	EA	520.00	11,960
UR - URINAL, WALL HUNG FLUSH VALVE	5.00	EA	1,955.00	9,775
URH - URINAL, WALL HUNG FLUSH VALVE	1.00	EA	1,955.00	1,955
AUTOMATIC FLUSH SENSOR & OPERATOR FOR URINAL	6.00	EA	520.00	3,120
CARRIERS & SUPPORTS FOR URINALS	6.00	EA	520.00	3,120
LH - LAVATORY, WALL HUNG VITREOUS	10.00	EA	1,520.00	15,200
LH - LAVATORY, COUNTERTOP, SELF- RIMMING	12.00	EA	1,428.00	17,136
INFRARED SENSORS FOR LAVATORIES (W/ FAUCET HEAD)	22.00	EA	490.00	10,780
CARRIERS & SUPPORTS FOR LAVATORIES	10.00	EA	465.00	4,650
SHOWER ENCLOSURE, FIBERGLASS	2.00	EA	2,290.00	4,580
EMERGENCY EYEWASH		EA	665.00	
EMERGENCY SHOWER		EA	2,025.00	
SS DEEP BASIN SINK		EA	1,970.00	
SS - MOP RECEPTOR, FLR MNTD TERRAZZO	1.00	EA	1,799.00	1,799
EWHC - DRINKING FOUNTAIN WALL HUNG, ELECT, HI / LOW	7.00	EA	2,350.00	16,450

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Description	Quantity	UM	Tot.UnitCost	TotalCost
SKH - MULTI-PURP SINK, 1 COMP, SS	4.00	EA	1,655.00	6,620
MULTI-PURP SINK, 2 COMP, SS		EA	1,837.00	
FD - (2"-3") FLOOR DRAIN, CAST IRON	9.00	EA	347.00	3,123
TRAP PRIMERS	7.00	EA	150.00	1,050
WB - APPLIANCE BOX - REFRIDGERATOR	1.00	EA	75.00	75
TRENCH DRAIN CAST IRON	7.00	LF	50.00	350
HB - HOSE BIB 3/4"	7.00	EA	75.00	525
*** Total Fixtures, Drains, Connections				151,621
Water Heaters				
WATER HEATER	2.00	EA	3,500.00	7,000
*** Total Water Heaters				7,000
Misc. Pumps				
IN-LINE RECIRC PUMP, 3"	2.00	EA	2,600.00	5,200
*** Total Misc. Pumps				5,200
Plumbing Scope Items				
PLUMBING TO 5' OUTSIDE BLDG	1.00	SCOPE		
FIRESTOP OWN PENETRATIONS	37,000.00	SF	0.05	1,850
*** Total Plumbing Scope Items				1,850
** Total 22.01 - PLUMBING				338,343
23.01 - HVAC				
Test & Balance				
TEST & BALANCE BY HVAC SUBCONTRACTOR	37,000.00	SF	0.78	28,860
*** Total Test & Balance				28,860
Building HVAC Controls				
CONTROLS TURNKEY - BASIC	37,000.00	SF	1.90	70,300
*** Total Building HVAC Controls				70,300
Supply/Return/Exhaust Duct				
GALVANIZED RECTANGULAR DUCT	65,000.00	LB	6.89	447,850
*** Total Supply/Return/Exhaust Duct				447,850
Duct & Piping Insulation				
DUCT INSULATION	37,000.00	SF	2.75	101,750
*** Total Duct & Piping Insulation				101,750
Air Distribution Devices				
SIDE WALL DIFFUSERS - TYPE E	1.00	EA	100.00	100
SIDE WALL DIFFUSERS - TYPE G4	8.00	EA	100.00	800
SUPPLY DIFFUSERS - TYPE A	122.00	EA	100.00	12,200
SUPPLY DIFFUSERS - TYPE C	3.00	EA	82.00	246
RETURN GRILLES - TYPE B	70.00	EA	65.00	4,550
EXHAUST REGISTERS - TYPE D	9.00	EA	65.00	585
VAV BOXES W REHEAT 800 - 1000 CFM	8.00	EA	1,069.00	8,552
VAV BOXES W REHEAT 1000 - 1500 CFM	8.00	EA	1,304.00	10,432
VAV BOXES W REHEAT 1500 - 2000 CFM	2.00	EA	1,440.00	2,880
*** Total Air Distribution Devices				40,345
Exhaust/Return Fans				
TOILET EXHAUST FANS	2,450.00	CFM	2.85	6,983
*** Total Exhaust/Return Fans				6,983
AHU DX Systems/ Mini-Split				
RTU - 6 TONS	1.00	EA	8,426.00	8,426
RTU - 10 TONS	4.00	EA	12,357.00	49,428
RTU - 45 TONS	1.00	EA	42,914.00	42,914
VARIABLE FREQUENCY DRIVE	50.00	HP	200.00	10,000
RIGGING	6.00	EA	1,500.00	9,000
*** Total AHU DX Systems/ Mini-Split				119,768
Computer Room A/C Units				
DUCTLESS SPLIT SYSTEM - 1.5 TON	2.00	EA	10,174.00	20,348
*** Total Computer Room A/C Units				20,348
Unit Heaters				
ELECTRIC - EUH - h1.1 & h1.2	2.00	EA	780.00	1,560
*** Total Unit Heaters				1,560
HVAC Scope Items				

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Description	Quantity	UM	Tot.UnitCost	TotalCost
PROVIDE & INSTALL ROOF TOP SUPPORTS	6.00	EA	2,500.00	15,000
PROVIDE OWN HOISTING FOR HVAC	1.00	LS	15,000.00	15,000
TEMPORARY FILTERS FOR HVAC	6.00	EA	750.00	4,500
FIRESTOP OWN PENETRATIONS (SF OF BLDG AREA)	37,000.00	SF	0.05	1,850
BIM COORDINATION	1.00	SCOPE	11,000.00	11,000
*** Total HVAC Scope Items				47,350
** Total 23.01 - HVAC				885,114
26.01 - ELECTRICAL				
Site Electrical Ductbank				
SITE DUCT BANK - ELECTRICAL	210.00	LF	225.00	47,250
SITE DUCT BANK CONCRETE	81.00	CY	80.00	6,480
HAUL OFF DUCT BANK SPOILS	98.00	TCY	10.00	980
*** Total Site Electrical Ductbank				54,710
Light Poles & Standards				
LIGHT POLES - ONE ARM	2.00	EA	3,000.00	6,000
LIGHT POLES - TWO ARM	3.00	EA	3,500.00	10,500
*** Total Light Poles & Standards				16,500
Building Electrical				
INSTITUTIONAL BASE ELECTRICAL	37,000.00	SF		
TELE/DATA CONDUIT & BACK BOXES	37,000.00	SF	0.35	12,950
AUDIO VISUAL CONDUIT & BACK BOXES	37,000.00	SF	0.50	18,500
SECURITY CONDUIT & BACK BOXES	37,000.00	SF	0.50	18,500
*** Total Building Electrical				49,950
Secondary Feeders				
SECONDARY FEEDERS	37,000.00	SF	2.15	79,550
*** Total Secondary Feeders				79,550
Distribution Panels and Panelboards				
120/208 V, 4 WIRE, 100 AMP MAIN	1.00	EA	1,506.86	1,507
277/480 V, 4 WIRE, 100 AMP MAIN	1.00	EA	1,832.00	1,832
277/480 V, 4 WIRE, 150 AMP MAIN	1.00	EA	2,013.00	2,013
120/208 V, 4 WIRE, 400 AMP MAIN	3.00	EA	2,800.00	8,400
277/480 V, 4 WIRE, 800 AMP MAIN	1.00	EA	8,860.00	8,860
277/480 V, 4 WIRE, 1000 AMP MAIN	1.00	EA	11,600.00	11,600
*** Total Distribution Panels and Panelboards				34,212
Branch Circuiting				
120V DUPLEX OUTLET	198.00	EA	154.22	30,536
120V GFI DUPLEX OUTLET	50.00	EA	158.01	7,900
120V FOURPLEX OUTLET	101.00	EA	188.98	19,087
120V FOURPLEX FLOORBOX	19.00	EA	386.00	7,334
30 AMP OUTLET	1.00	EA	197.67	198
ADD FOR WEATHERPROOF COVER	26.00	EA	20.00	520
SINGLE SWITCHES	93.00	EA	141.66	13,174
SWITCH - 2 WAY	12.00	EA	175.78	2,109
SWITCH - 4 WAY	3.00	EA	292.40	877
PROJECTION SCREEN	2.00	EA	325.00	650
ROLL-UP DOOR POWER CONNECTIONS	1.00	EA	480.00	480
WALL MOUNTED OCC. SENSORS	50.00	EA	217.73	10,887
CEILING MOUNTED OCC. SENSORS	63.00	EA	339.38	21,381
CONDUIT & WIRING PER DROP	619.00	EA	138.00	85,422
*** Total Branch Circuiting				200,555
Building Light Fixtures				
TYPE A2 - 2X4 LAY IN LED	16.00	EA	574.00	9,184
TYPE C2 - 2X4 LAY IN LED - W/ GYP FLANGE KIT	23.00	EA	574.00	13,202
TYPE M2 - 2X4 LAY IN LED	65.00	EA	574.00	37,310
TYPE M3 - 2X4 LAY IN LED	6.00	EA	574.00	3,444
TYPE M4 - 2X4 LAY IN LED	144.00	EA	574.00	82,656
TYPE M5 - 2X4 LAY IN LED	30.00	EA	574.00	17,220
TYPE J2 - LED WET LOCATION STRIP FIXTURE	10.00	EA	525.00	5,250
TYPE J3 - LED WET LOCATION STRIP FIXTURE	24.00	EA	525.00	12,600
TYPE F2 - 4' FINELITE - 3 TUBE	53.00	EA	726.30	38,494
TYPE F3 - 4' FINELITE - 3 TUBE	42.00	EA	726.30	30,505
L1 - 6" RECESSED LED	114.00	EA	492.00	56,088
TYPE H2 - LED STRIP FIXTURE	15.00	EA	1,100.00	16,500

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Description	Quantity	UM	Tot.UnitCost	TotalCost
TYPE T5 - WALL MTD LED FIXTURE W/ DIE CAST ALUMINUM HOUSING	4.00	EA	786.00	3,144
X1 - LED SINGLE FACE EXIT	36.00	EA	280.80	10,109
TYPE G2 - 4' WRAP AROUND	15.00	EA	375.55	5,633
TYPE U2 - 16"X4 HIGH BAY LED	27.00	EA	619.00	16,713
Y1 - EMERGENCY EGRESS FIXTURE	58.00	EA	618.61	35,879
CONDUIT & WIRING PER FIXTURE	689.00	EA	138.00	95,082
TASK LIGHTING	7.00	EA	125.00	875
*** Total Building Light Fixtures				489,888
Lighting Controls				
CONFERENCE ROOM LIGHTING CONTROLS	3.00	EA	1,500.00	4,500
TRAINING ROOM LIGHTING CONTROLS	2.00	EA	7,500.00	15,000
*** Total Lighting Controls				19,500
HVAC Connections				
PACKAGE UNIT - 3 - 7.5 TON	1.00	EA	750.00	750
PACKAGE UNIT - 10 - 15 TON	4.00	EA	1,600.00	6,400
PACKAGE UNIT - 40 - 60 TON	1.00	EA	4,500.00	4,500
EF CONNECTIONS	3.00	EA	1,250.00	3,750
VAV CONNECTIONS	18.00	EA	401.00	7,218
*** Total HVAC Connections				22,618
Equipment Connections				
POWER TO HW RECIRC PUMP	1.00	EA	272.00	272
POWER TO HW HEATER	1.00	EA	424.10	424
POWER TO OH DOORS	1.00	EA	424.10	424
POWER TO ELEVATOR	1.00	EA	1,074.00	1,074
*** Total Equipment Connections				2,194
Transformers				
3 PH 240/480-120/208 112.5 KVA	3.00	EA	6,367.00	19,101
*** Total Transformers				19,101
Generators				
60 KW 277/480 DIESEL ENGINE	1.00	EA	50,000.00	50,000
FUEL STORAGE TANK, 250 GALLONS	1.00	EA	13,000.00	13,000
480V, 400A ATS	1.00	EA	26,400.00	26,400
FUEL - EMERGENCY GENERATOR	250.00	GAL	2.15	538
*** Total Generators				89,938
Fire Alarm				
FIRE ALARM SYSTEM	37,000.00	SF	3.25	120,250
*** Total Fire Alarm				120,250
Other Electrical				
FIRECAULKING	37,000.00	SF	0.08	2,960
*** Total Other Electrical				2,960
Electrical Scope Items				
TEMP. ELECTRICAL	37,000.00	SF	0.15	5,550
*** Total Electrical Scope Items				5,550
** Total 26.01 - ELECTRICAL				1,207,476
27.01 - TELECOM/DATA				
Equipment				
TYPICAL TR/IDF BUILDOUT (INCL. 4 RACKS, LADDER RACKS, CABLE MANAGEMENT, POWER STRIPS, BONDING STRAPS)	2.00	EA	8,865.00	17,730
*** Total Equipment				17,730
Horizontal Cabling/Distribution				
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - CAMERAS	23.00	EA.	189.00	4,347
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - WAP	19.00	EA.	189.00	3,591
DATA OUTLET - 2 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) (INCL. CABLING, CONNECTORS, FACE PLATE)	136.00	EA	225.00	30,600
DATA OUTLET - 4 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) (INCL. CABLING, CONNECTORS, FACE PLATE)	1.00	EA	405.00	405

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DATA OUTLET - 6 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) (INCL. CABLING, CONNECTORS, FACE PLATE)	27.00	EA	724.00	19,548
*** Total Horizontal Cabling/Distribution				58,491
** Total 27.01 - TELECOM/DATA				76,221
28.01 - SECURITY				
Access Control				
ELECTRIC DOOR STATUS INDICATOR DEVICES	35.00	EA	150.00	5,250
PANIC BUTTONS	2.00	EA	400.00	800
CARD READERS (PER DOOR, READER, REX, LOCK, DOOR CONTACTS, WIRING, INSTALL)	24.00	EA	1,200.00	28,800
*** Total Access Control				34,850
Other Access Control				
HEADEND - (PER DOOR INCLUDES CONTROL PANEL, LOCK POWER SUPPLY)	24.00	EA	600.00	14,400
*** Total Other Access Control				14,400
Electronic Surveillance				
STATIONARY CAMERAS - EXTERIOR	3.00	EA	2,800.00	8,400
STATIONARY CAMERAS - INTERIOR	9.00	EA	2,100.00	18,900
CAMERA DOMES	12.00	EA	350.00	4,200
DIGITAL VIDEO SURVEILLANCE RECORDING SYSTEM	1.00	EA	2,000.00	2,000
*** Total Electronic Surveillance				33,500
** Total 28.01 - SECURITY				82,750
31.01 - EARTHWORK				
Stripping				
STRIPPING - LARGER THAN 2 ACRES	3,550.00	TCY	3.44	12,212
HAUL OFF STRIPPING MATERIALS	3,550.00	TCY	2.51	8,909
*** Total Stripping				21,121
Building Mass Excavation				
EXPORT MATERIALS - BUILDING	5,295.00	TCY	7.53	39,864
MASS EXCAVATION - EMS TRAINING & VEHICLE SUPPORT BUILDING	5,295.00	TCY	1.84	9,735
*** Total Building Mass Excavation				49,599
Building Structural Fill				
STRUCTURAL FILL - EMS TRAINING & VEHICLE SUPPORT BUILDING (7')	9,321.00	TCY	2.09	19,469
IMPORT MATERIALS - SELECT FILL	9,321.00	TCY	15.06	140,347
SCARIFY AND COMPACT - EMS TRAINING BUILDING	24,700.00	SF	0.09	2,334
*** Total Building Structural Fill				162,151
Paving Cut/Fill				
IMPORT MATERIALS - PAVING (SELECT FILL)	4,399.00	TCY	15.06	66,236
EXPORT MATERIALS - PAVING	516.00	TCY	7.53	3,885
CUT FOR SITE PAVING	516.00	TCY	3.32	1,711
FILL FOR SITE PAVING	4,399.00	TCY	1.33	5,833
*** Total Paving Cut/Fill				77,665
Misc. Site Cut/Fill				
BACKFILL CURBS (CREW & MATERIAL)	990.00	TCY	5.39	5,338
*** Total Misc. Site Cut/Fill				5,338
Base Materials				
PLACE 12" LIMESTONE BASE	7,600.00	TON	2.40	18,235
PURCHASE LIMESTONE BASE	7,600.00	TON	15.06	114,434
*** Total Base Materials				132,669
Lime Stabilization				
STABILIZE SUBGRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	12,093.00	SYD	1.20	14,489
BLUE TOP / CUT TO GRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	108,835.00	SF	0.03	3,693
PURCHASE LIME	218.00	TON	200.76	43,766
FUEL FOR STABILIZATION	2.00	WK	2,432.78	4,866

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CALCULATION - 36LBS PER SY x SY / 2000 = TONS	1.00	SCOPE		
*** Total Lime Stabilization				66,814
** Total 31.01 - EARTHWORK				515,356
31.05 - SOIL TREATMENT				
Termite Treatment				
TERMITE TREATMENT	29,000.00	SF	0.16	4,640
*** Total Termite Treatment				4,640
** Total 31.05 - SOIL TREATMENT				4,640
32.01 - ASPHALT				
Asphalt Paving				
ASPHALT PAVING - 2" TYPE D	100,643.00	SF	1.60	161,019
*** Total Asphalt Paving				161,019
** Total 32.01 - ASPHALT				161,019
32.07 - FENCES & GATES				
Chain Link Fences				
ORNAMENTAL METAL FENCE - 6'	726.00	LF	70.00	50,820
WOOD FENCE - 6' (INCL 1 DOUBLE SWING GATE)	126.00	LF	61.90	7,800
CHAIN LINK FENCE GATES - 10' WIDE		EA	550.00	
GATE OPERATORS	3.00	EA	5,250.00	15,750
ORNAMENTAL ROLL GATE - 36' WIDE	1.00	EA	4,900.00	4,900
*** Total Chain Link Fences				79,270
Ornamental Fencing				
PRE-FINISHED METAL WALL PANEL	2.00	EA	2,250.00	4,500
DUMPSTER GATE - 8' WIDE - UPDATED PER 09/13 MTG				
*** Total Ornamental Fencing				4,500
** Total 32.07 - FENCES & GATES				83,770
32.14 - STRIPING & SIGNS				
Handicap Signs				
HC SIGNS WITH POSTS	4.00	EA	200.00	800
*** Total Handicap Signs				800
Striping				
SPACES	134.00	EA	10.00	1,340
HATCHINGS	4.00	EA	30.00	120
*** Total Striping				1,460
Wheel Stops				
WHEEL STOPS	134.00	EA	35.00	4,690
*** Total Wheel Stops				4,690
** Total 32.14 - STRIPING & SIGNS				6,950
33.01 - SITE UTILITIES				
Water Piping				
C900 WATER LINE - 8"	1,078.00	LF	13.88	14,963
MJ TEE - 8"	5.00	EA	832.80	4,164
MJ BEND - 8"	5.00	EA	832.80	4,164
PVC SCH 40 PIPE - 3"	20.00	LF	11.49	230
INSTALL WATER LINE PIPE	1,078.00	LF	15.98	17,222
THRUST BLOCKS	10.00	CY	222.08	2,221
BANK SAND	1,042.00	TCY	22.21	23,141
*** Total Water Piping				66,104
Water Distribution Equipment				
GATE VALVE & BOX - 3"	2.00	EA	513.56	1,027
GATE VALVE & BOX - 8"	1.00	EA	1,682.25	1,682
*** Total Water Distribution Equipment				2,709
Fire Line Piping				
FIRE LINE - 6"	40.00	LF	55.52	2,221
INSTALL FIRE LINE PIPE	40.00	LF	43.05	1,722
THRUST BLOCKS	1.00	CY	277.60	278
BANK SAND	40.00	TCY	22.21	888
*** Total Fire Line Piping				5,109

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Fire Line Distribution Equipment				
FIRE HYDRANT	2.00	EA	6,245.99	12,492
GATE VALVE & BOX - 6"	2.00	EA	1,249.20	2,498
*** Total Fire Line Distribution Equipment				14,990
Testing & Disinfection				
DISINFECTION OF WATER PIPING	1.00	SCOPE		
HYDROSTATIC TESTING OF WATER PIPING	1.00	SCOPE		
*** Total Testing & Disinfection				
Sanitary Piping				
PVC SDR 26 - 4"	165.00	LF	4.98	821
PVC SDR 26 - 6"	211.00	LF	7.96	1,680
INSTALL SANTIARY PIPE	376.00	LF	22.90	8,611
CEMENT STABILIZED BACKFILL	630.00	TONS	16.80	10,584
CLEANOUT	2.00	EA	398.21	796
*** Total Sanitary Piping				22,493
Storm Drainage Piping				
HDPE - 6"	377.00	LF	2.78	1,047
RCP - 12"	672.00	LF	41.64	27,982
RCP - 18"	255.00	LF	48.58	12,388
RCP - 24"	77.00	LF	69.40	5,344
INSTALL STORM PIPE 24" - 42"	1,381.00	LF	12.47	17,222
CEMENT STABILIZED BACKFILL	1,841.00	TONS	34.70	63,882
12" SLOPED END	2.00	EA	2,775.99	5,552
18" SLOPED END	3.00	EA	3,053.59	9,161
*** Total Storm Drainage Piping				142,577
Miscellaneous Utilities				
HAUL STORM SPOILS	1,416.00	TCY	7.05	9,985
HAUL SANITARY SPOILS	484.00	TCY	7.55	3,655
HAUL WATER SPOILS	1,042.00	TCY	7.44	7,752
HAUL FIRE SPOILS	40.00	TCY	5.97	239
*** Total Miscellaneous Utilities				21,631
** Total 33.01 - SITE UTILITIES				275,614
* Total EMS TRAINING BUILDING	37,000.00	SF	237.91	8,802,613

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Description	Quantity	UM	Tot.UnitCost	TotalCost
VEHICLE INSPECTION BUILDING				
03.00 - CONCRETE TURNKEY				
Building Concrete				
VEHICLE INSPECTION BUILDING - GRADE BEAMS	575.00	LF	120.00	69,000
VEHICLE INSPECTION BUILDING - 12" WALL	2,244.00	SF	33.25	74,613
VEHICLE INSPECTION BUILDING - SLAB ON GRADE	6,000.00	SF	6.55	39,300
VEHICLE INSPECTION BUILDING - SLAB ON METAL DECK	700.00	SF	16.60	11,620
VEHICLE INSPECTION BUILDING - MEP PADS	10.00	SF	25.00	250
VEHICLE INSPECTION BUILDING - BOLLARDS	8.00	EA	560.00	4,480
*** Total Building Concrete				199,263
** Total 03.00 - CONCRETE TURNKEY				199,263
04.01 - MASONRY				
Reinforcing Steel				
MASONRY REBAR	1.00	TON	1,200.00	1,200
*** Total Reinforcing Steel				1,200
Concrete Masonry Units (CMU)				
CMU - 8" STANDARD GROUT FILL @ 32" O.C. - INTERIOR	763.00	SF	10.20	7,783
CMU - 4" SPLIT FACED COLOR VENEER	589.00	SF	11.00	6,479
CMU - 4" VENEER	9,370.00	SF	11.00	103,070
CMU - 8" BACKUP WALL TO EXTERIOR MASONRY	830.00	SF	11.45	9,504
*** Total Concrete Masonry Units (CMU)				126,835
Masonry Scaffolding				
SCAFFOLDING FOR EXTERIOR MASONRY	10,789.00	SF	2.00	21,578
*** Total Masonry Scaffolding				21,578
** Total 04.01 - MASONRY				149,613
05.01 - STEEL FABRICATION				
Steel Fabrication Budget				
MISC INTERIOR STEEL - 0.5 LB/SF	1.50	TONS	2,900.00	4,350
COILING DOOR SUPPORTS	4.00	EA	500.00	2,000
BLOCK WALL HEAD SUPPORTS	52.00	LF	13.00	676
*** Total Steel Fabrication Budget				7,026
Steel Fabrication				
COLUMNS - HSS TUBES	1.00	TON	2,900.00	2,900
BEAMS - W SHAPES	6.00	TON	2,900.00	17,400
*** Total Steel Fabrication				20,300
Joist				
JOISTS	2.00	TONS	2,900.00	5,800
*** Total Joist				5,800
Decking				
ROOF DECK	40.00	SQS	160.00	6,400
*** Total Decking				6,400
Ladders				
ROOF HATCH LADDER	1.00	EA	750.00	750
*** Total Ladders				750
Masonry Supports				
MASONRY LINTELS	97.00	LF	70.00	6,790
*** Total Masonry Supports				6,790
Overhead Support Framing				
PIPE BOLLARDS	16.00	EA	110.00	1,760
*** Total Overhead Support Framing				1,760
** Total 05.01 - STEEL FABRICATION				48,826
05.02 - STEEL ERECTION				
Steel Erection Budget				

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INSTALL MASONRY WALL CLIPS	52.00	LF	28.00	1,456
*** Total Steel Erection Budget				1,456
Masonry Lintels				
MASONRY RELIEF LINTELS	97.00	LF	30.44	2,953
*** Total Masonry Lintels				2,953
Misc. Steel Erection				
PIPE BOLLARDS	16.00	EA	88.05	1,409
*** Total Misc. Steel Erection				1,409
** Total 05.02 - STEEL ERECTION				5,818
05.06 - PRE-ENGINEERED METAL BUILDING				
Pre-Engineered Metal Building				
PRE-ENGINEERED METAL BUILDING	2,300.00	SF	20.00	46,000
ROOF INSULATION PROVIDED (BASED ON 3.5", UNFACED)		INCL	1.50	
*** Total Pre-Engineered Metal Building				46,000
** Total 05.06 - PRE-ENGINEERED METAL BUILDIN				46,000
05.07 - PRE-ENGINEERED METAL BUILDING ERECTION				
Pre-Engineered Metal Building Erection				
ERECT PRE-ENGINEERED METAL BUILDING	2,300.00	SF	9.00	20,700
*** Total Pre-Engineered Metal Building Erect				20,700
** Total 05.07 - PRE-ENGINEERED METAL BUILDIN				20,700
06.02 - ARCHITECTURAL WOODWORK/MILLWORK/TRIM				
Plastic Laminate Cabinetry				
LOWER PLAM CABINETS @ G103	9.00	LF	225.00	2,025
UPPER PLAM CABINETS	9.00	LF	160.00	1,440
*** Total Plastic Laminate Cabinetry				3,465
Solid Surface Fabrications				
SOLID SURFACE COUNTER TOP WITH BACK SPLASH	9.00	LF	168.00	1,512
SOLID SURFACE COUNTER TOP WITH BACK SPLASH @ TRANSACTION COUNTERS	4.00	LF	168.00	672
*** Total Solid Surface Fabrications				2,184
** Total 06.02 - ARCHITECTURAL WOODWORK/MILLW				5,649
06.06 - ROUGH CARPENTRY				
Roof Blocking				
ROOF BLOCKING - 2 x 8 TREATED WOOD BLOCKING	131.00	LF	3.81	499
*** Total Roof Blocking				499
Millwork Blocking				
MILLWORK - 2 x 6 FIRE TREATED WOOD BLOCKING	30.00	LF	4.11	123
*** Total Millwork Blocking				123
Toilet Accessory Blocking				
TOILET ACCESSORY - 2 x 4 FIRE TREATED WOOD BLOCKING	56.00	LF	3.76	211
*** Total Toilet Accessory Blocking				211
** Total 06.06 - ROUGH CARPENTRY				832
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALANTS				
PVC Flashings				
BASE LAP FLASHING @ CMU	315.00	LF	5.00	1,575
40 MIL SELF ADHERED TO 12" @ OPENINGS	460.00	LF	5.00	2,300
*** Total PVC Flashings				3,875
Aluminum Flashings				
ALUMINUM COUNTER FLASHING @ METAL PANELS	104.00	LF	6.50	676
*** Total Aluminum Flashings				676
Water Repellents				
FLUID APPLIED VAPOR AND AIR BARRIER @ CMU	6,136.00	SF	4.55	27,919
FLUID APPLIED VAPOR AND AIR BARRIER @ MWP	195.00	SF	4.55	887
*** Total Water Repellents				28,806

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Building Facade Joint Sealants				
HORIZONTAL JOINT SEALANTS - BRICK TO BRICK	200.00	LF	2.60	520
JOINT SEALANTS BUILDING TO SIDEWALK	315.00	LF	2.60	819
JOINT SEALANTS MWP TO BRICK	117.00	LF	2.60	304
VERTICAL JOINT SEALANTS - BRICK TO BRICK	641.00	LF	2.60	1,667
JOINT SEALANT @ EXTERIOR DOORS	10.00	EA	25.00	250
JOINT SEALANT @ WINDOWS	6.00	EA	20.00	120
JOINT SEALANT @ LOUVERS	2.00	EA	25.00	50
*** Total Building Facade Joint Sealants				3,730
** Total 07.01 - WATERPROOF / DAMPPROOF / JOI				37,087
07.02 - INSULATION				
Rigid Insulation				
RIGID INSULATION - MASONRY	6,440.00	SF	2.89	18,612
RIGID INSULATION - MWP	511.00	SF	2.89	1,477
*** Total Rigid Insulation				20,088
Insulation Batts				
VINYL FACED BATT INSULATION - BY PEMB PROVIDER		SF	1.15	
*** Total Insulation Batts				
** Total 07.02 - INSULATION				20,088
07.03 - ROOFING				
Membrane Roofing				
PVC MEMBRANE ROOF -60 MIL FULLY ADHERED	3,200.00	SF	8.89	28,448
*** Total Membrane Roofing				28,448
Roof Insulation				
POLYISOCYANURATE - TAPERED FOR DRAINAGE	3,200.00	SF	3.00	9,600
*** Total Roof Insulation				9,600
Gutters & Downspouts				
GUTTER - 6" GALVANIZED	106.00	LF	10.00	1,060
DOWNSPOUT - 6" GALVANIZED	170.00	LF	10.00	1,700
PARAPET CAP / COPING - 12" WIDE	264.00	LF	12.00	3,168
*** Total Gutters & Downspouts				5,928
Roof Flashings				
GALVALUME FLASHING	521.00	LF	6.00	3,126
SADDLE FLASHING & THERMOPLASTIC BOOTS @ WALL RISER (NEW ADDENDUM DETAILS)	4.00	EA	35.00	140
SCUPPER - ALUMINUM	11.00	EA	100.00	1,100
*** Total Roof Flashings				4,366
** Total 07.03 - ROOFING				48,342
07.05 - METAL ROOF & WALL PANELS				
Metal Wall Panels				
METAL WALL PANELS	990.00	SF	20.00	19,800
METAL WALL PANELS @ AWNINGS	369.00	SF	20.00	7,380
SCAFFOLDING FOR EXTERIOR WALL PANELS	990.00	SF	1.00	990
METAL WALL PANELS - SCREEN WALL	145.00	SF	30.00	4,350
*** Total Metal Wall Panels				32,520
** Total 07.05 - METAL ROOF & WALL PANELS				32,520
08.01 - HOLLOW METAL				
Door Frames				
3070 HOLLOW METAL FRAME	14.00	EA	149.00	2,086
6070 HOLLOW METAL FRAME	7.00	EA	194.00	1,358
*** Total Door Frames				3,444
Doors				
3070 HOLLOW METAL DOOR	12.00	EA	300.00	3,600
3070 HOLLOW METAL DOOR - NARROW VISION LITE	5.00	EA	300.00	1,500
3070 HOLLOW METAL DOOR - G90 FINISH	4.00	EA	300.00	1,200
*** Total Doors				6,300
** Total 08.01 - HOLLOW METAL				9,744

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Description	Quantity	UM	Tot.UnitCost	TotalCost
08.05 - PLASTIC LAMINATE DOORS				
Solid Core Plam Doors				
3070 PLASTIC LAMINATE DOOR - SOLID CORE	6.00	EA	225.00	1,350
*** Total Solid Core Plam Doors				1,350
** Total 08.05 - PLASTIC LAMINATE DOORS				1,350
08.10 - OVERHEAD DOORS/COILING GRILLS				
Overhead Doors				
INSULATED OVERHEAD COILING DOOR-12x18 - UPDATED PER 09/13 MTG	4.00	EA	10,500.00	42,000
PREMIUM FOR MOTOR OPERATIONS OVER 14x14	4.00	EA	1,450.00	5,800
*** Total Overhead Doors				47,800
** Total 08.10 - OVERHEAD DOORS/COILING GRILL				47,800
08.28 - GLASS & GLAZING				
Aluminum Windows				
TYPE D - SLIDING WINDOW 3'-10 x 4'-04"	1.00	EA	1,500.00	1,500
TYPE A - 3' x 5' SINGLE HUNG WINDOW	6.00	EA	1,800.00	10,800
*** Total Aluminum Windows				12,300
Glass Doors & Entrances				
ALUMINUM ENTRANCE DOOR & FRAME-3070	1.00	EA	3,500.00	3,500
ALUMINUM ENTRANCE DOOR & FRAME-3070	1.00	EA	3,500.00	3,500
*** Total Glass Doors & Entrances				7,000
Storefront Window Systems				
EXTERIOR SIDE LITES	18.00	SF	55.00	990
*** Total Storefront Window Systems				990
Interior Glass				
TEMPERED GLASS IN DOORS (SMALL SIZE)	3.00	EA	75.00	225
TEMPERED GLASS IN DOORS (MEDIUM SIZE)	1.00	EA	150.00	150
*** Total Interior Glass				375
** Total 08.28 - GLASS & GLAZING				20,665
08.34 - FINISH HARDWARE				
Hardware Sets				
DOOR HARDWARE SET #1	10.00	EA	620.00	6,200
DOOR HARDWARE SET #2	8.00	EA	620.00	4,960
DOOR HARDWARE SET #4	3.00	EA	620.00	1,860
DOOR HARDWARE SET #5	1.00	EA	620.00	620
*** Total Hardware Sets				13,640
** Total 08.34 - FINISH HARDWARE				13,640
08.38 - DOOR & HARDWARE INSTALLATION				
Door Distribution				
DISTRIBUTE HOLLOW METAL DOORS	18.00	EA	14.31	257
*** Total Door Distribution				257
Frame Distribution				
DISTRIBUTE HOLLOW METAL FRAMES	22.00	EA	14.31	315
*** Total Frame Distribution				315
Set Hollow Metal Doors				
SET HOLLOW METAL DOORS	18.00	EA	39.00	702
*** Total Set Hollow Metal Doors				702
Wood Door Distribution				
DISTRIBUTE DOORS	6.00	EA	14.28	86
*** Total Wood Door Distribution				86
Set Wood Doors				
SET DOORS	6.00	EA	38.94	234
*** Total Set Wood Doors				234
Install Hardware Sets				

Williamson County - North Campus Facility

Loc: Georgetown, Texas

Est Date: 08/29/2016

Project Size: 0 sqft

Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
LABOR TO SET	25.00	EA	216.32	5,408
UNLOAD AND DISTRIBUTE HARDWARE SETS	25.00	EA	38.94	973
*** Total Install Hardware Sets				6,381
** Total 08.38 - DOOR & HARDWARE INSTALLATION				7,975
09.02 - DRYWALL				
Other Wood & Plastics				
FRP @ JANITOR, DATA & VEHICLE BAYS SELECT WALLS	288.00	SF	11.20	3,226
*** Total Other Wood & Plastics				3,226
Drywall Ceilings				
DRYWALL CEILING - 1 LAYER GYP TO 8' HEIGHT	195.00	SF	16.80	3,276
*** Total Drywall Ceilings				3,276
Drywall Furrdowns				
FURRDOWN - 3' WIDE	11.00	LF	138.60	1,525
*** Total Drywall Furrdowns				1,525
Insulation by Drywall				
ACOUSTICAL WALL INSULATION - 2"	120.00	SF	2.80	336
*** Total Insulation by Drywall				336
Acoustical Ceilings				
STANDARD 2 x 2 ACOUSTICAL CEILING	2,064.00	SF	8.40	17,338
*** Total Acoustical Ceilings				17,338
** Total 09.02 - DRYWALL				25,700
09.03 - TILE				
Waterproofing				
WATERPROOFING MEMBRANE	196.00	SF	4.55	892
*** Total Waterproofing				892
Ceramic tile				
FLOOR TILE - 2X2- COLOR GROUP 1 - UPDATED PER 09/13 MTG	196.00	SF	12.00	2,352
WALL TILE - 4x4	656.00	SF	12.00	7,872
*** Total Ceramic tile				10,224
Tile Scope Items				
FLOOR PROTECTION	196.00	SF	0.96	188
*** Total Tile Scope Items				188
** Total 09.03 - TILE				11,304
09.07 - CARPET, VINYL FLOORING, & BASE				
VCT				
LVT	432.00	SF	4.25	1,836
*** Total VCT				1,836
Carpet Tile				
CARPET TILE	1,152.00	SF	4.24	4,883
*** Total Carpet Tile				4,883
Resilient Base				
RUBBER BASE	720.00	LF	1.10	792
*** Total Resilient Base				792
** Total 09.07 - CARPET, VINYL FLOORING, & BA				7,511
09.12 - PAINTING				
Paint Drywall				
PAINT DRYWALL PARTITIONS	6,560.00	SF	1.10	7,216
PAINT DRYWALL CEILINGS	195.00	SF	1.23	240
*** Total Paint Drywall				7,456
Paint Doors & Frames				
PAINT HOLLOW METAL FRAMES	23.00	EA	50.00	1,150
PAINT HOLLOW METAL DOORS	10.00	EA	50.00	500
*** Total Paint Doors & Frames				1,650
Paint Steel Members				
EPOXY PAINT BOLLARDS	8.00	EA	125.00	1,000

Williamson County - North Campus Facility

Loc: Georgetown, Texas
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Est Date: 08/29/2016
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Description	Quantity	UM	Tot.UnitCost	TotalCost
*** Total Paint Steel Members				1,000
MEP Painting				
PAINT EXPOSED STRUCTURE ABOVE	2,633.00	SF	2.00	5,266
*** Total MEP Painting				5,266
Paint Preparation				
TAPE & FLOAT BY PAINTER	9,288.00	SF	1.30	12,074
*** Total Paint Preparation				12,074
** Total 09.12 - PAINTING				27,446
09.16 - CONCRETE SEALER				
Concrete Sealer				
CONCRETE SEALER - TWO COATS	4,079.00	SF	2.10	8,566
CONCRETE SEALER - TWO COATS	2,024.00	SF	1.10	2,226
*** Total Concrete Sealer				10,792
** Total 09.16 - CONCRETE SEALER				10,792
10.04 - LOUVERS				
Louvers - Aluminum				
LOUVER - ALUMINUM KYNAR (2 EA)	54.00	SF	35.00	1,890
*** Total Louvers - Aluminum				1,890
** Total 10.04 - LOUVERS				1,890
10.05 - WALL PROTECTION				
Stainless Steel Wall Protection				
SURFACE MOUNT STAINLESS STEEL CORNER GUARDS - 8'	7.00	EA	148.00	1,036
*** Total Stainless Steel Wall Protection				1,036
Install Wall Protection				
INSTALL CORNER GUARDS	7.00	EA	38.59	270
*** Total Install Wall Protection				270
** Total 10.05 - WALL PROTECTION				1,306
10.08 - SIGNAGE				
Miscellaneous Signage				
WAYFINDING SIGNAGE ALLOWANCE	5.00	EA	175.00	875
SIGNAGE ALLOWANCE PER OPENING	22.00	EA	125.00	2,750
*** Total Miscellaneous Signage				3,625
** Total 10.08 - SIGNAGE				3,625
10.10 - FIRE PROTECTION SPECIALTIES				
Fire Extinguisher Cabinets				
FIRE EXTINGUISHER W/CABINET	1.00	EA	220.00	220
*** Total Fire Extinguisher Cabinets				220
Install Fire Protection Specialties				
INSTALL FIRE EXTINGUISHER WITH CABINET	1.00	EA	28.81	29
*** Total Install Fire Protection Specialties				29
** Total 10.10 - FIRE PROTECTION SPECIALTIES				249
10.17 - TOILET ACCESSORIES				
Grab Bars				
GRAB BARS - 36" SATIN FINISH,EXPOSED MTD.	3.00	EA	29.50	89
GRAB BARS - 42" SATIN FINISH,EXPOSED MTD.	3.00	EA	38.50	116
*** Total Grab Bars				204
Toilet Paper Dispensers				
TOILET TISSUE DISPENSER, EXPOSED, SURFACE MTD	3.00	EA	30.00	90
*** Total Toilet Paper Dispensers				90
Sanitary Napkin Disposals				
SANITARY NAPKIN DISPOSAL SURFACE MTD - OPEN FROM TOP	3.00	EA	30.00	90
TOILET SEAT COVER DISPENSER SURFACE MTD - EXCLUDED - UPDATED PER 09/13 MTG		EA	40.00	
*** Total Sanitary Napkin Disposals				90

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
Soap Dispensers				
SOAP DISPENSER - SURFACE MTD	3.00	EA	45.00	135
*** Total Soap Dispensers				135
Mirrors				
MIRROR 18x36	3.00	EA	85.00	255
*** Total Mirrors				255
Diaper Changing Stations				
DIAPER CHANGING STATION - EXCLUDED - UPDATED PER 09/13 MTG		EA	350.00	
*** Total Diaper Changing Stations				
Hand Dryers				
HAND DRYER, AUTO PILOT SURFACE MTD - UPDATED PER 09/13 MTG	3.00	EA	350.00	1,050
*** Total Hand Dryers				1,050
Install Toilet Accessories				
INSTALL GRAB BARS	6.00	EA	14.40	86
INSTALL PAPER TOWEL DISPENSERS SURFACE MTD	3.00	EA	14.40	43
INSTALL TOILET TISSUE DISPENSER	3.00	EA	21.61	65
INSTALL TOILET SEAT COVER DISPENSER		EA	14.40	
INSTALL SOAP DISPENSER	3.00	EA	14.40	43
INSTALL MIRROR - SMALL	3.00	EA	14.40	43
INSTALL DIAPER CHANGING STATION		EA	14.40	
INSTALL HAND DRYER	1.00	EA	43.21	43
*** Total Install Toilet Accessories				324
** Total 10.17 - TOILET ACCESSORIES				2,148
11.12 - VEHICLE SERVICE EQUIPMENT				
Vehicle Service Equipment				
4- POST LIFT (2-WAY DRIVE)	1.00	EA	8,888.00	8,888
EXHAUST REMOVAL SYSTEM	1.00	LS		
RETRACTABLE AIR-POWER - ALLOWANCE - UPDATED PER 09/13 MEETING	1.00	LS	2,500.00	2,500
*** Total Vehicle Service Equipment				11,388
** Total 11.12 - VEHICLE SERVICE EQUIPMENT				11,388
11.14 - MISCELLANEOUS EQUIPMENT VENDOR				
Miscellaneous Equipment				
DEFIBRILATOR	1.00	EA	3,400.00	3,400
*** Total Miscellaneous Equipment				3,400
** Total 11.14 - MISCELLANEOUS EQUIPMENT VEND				3,400
12.05 - BLINDS AND SHADES				
Blinds & Shades				
MINI BLINDS	300.00	SF	5.00	1,500
*** Total Blinds & Shades				1,500
** Total 12.05 - BLINDS AND SHADES				1,500
21.01 - FIRE PROTECTION				
Sprinkler Systems				
INSTITUTIONAL BASE FIRE PROTECTION	5,300.00	SF	2.75	14,575
*** Total Sprinkler Systems				14,575
** Total 21.01 - FIRE PROTECTION				14,575
22.01 - PLUMBING				
Building Plumbing				
INSTITUTIONAL BASE PLUMBING	5,300.00	SF		
*** Total Building Plumbing				
Domestic Water Piping				
L-Cu DIST. PIPING 1/2"	37.00	LF	34.00	1,258
L-Cu DIST. PIPING 3/4"	67.00	LF	40.00	2,680
L-Cu DIST. PIPING 1 1/2"	133.00	LF	53.00	7,049
L-Cu DIST. PIPING 2"	66.00	LF	58.00	3,828
*** Total Domestic Water Piping				14,815
Cleanouts & Specialties				

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
BACKFLOW PREVENTER 2 1/2" > 3"	1.00	EA	1,450.00	1,450
*** Total Cleanouts & Specialties				1,450
Sanitary Waste & Vent Piping				
C.I. WASTE & VENT UNDERGROUND 2"	82.00	LF	45.00	3,690
C.I. WASTE & VENT UNDERGROUND 3"	25.00	LF	52.00	1,300
C.I. WASTE & VENT UNDERGROUND 4"	166.00	LF	65.00	10,790
EXCAVATION & BACKFILL	273.00	LF	26.00	7,098
*** Total Sanitary Waste & Vent Piping				22,878
Floor Drains, Cleanouts, & Specialties				
FLOOR CLEANOUT 4"	5.00	EA	275.00	1,375
YARD CLEANOUT 4"	1.00	EA	250.00	250
*** Total Floor Drains, Cleanouts, & Specialt				1,625
Medical & Laboratory Gas Piping - CDA				
COMPRESSED AIR PIPING 2"	100.00	LF	31.00	3,100
COMPRESSOR ALLOWANCE - UPDATED PER 09/13 MEETING	1.00	EA	4,000.00	4,000
*** Total Medical & Laboratory Gas Piping - C				7,100
Natural Gas Piping				
BLACK STEEL NAT. GAS PIPING 1"	45.00	LF	24.00	1,080
BLACK STEEL NAT. GAS PIPING 1 1/2"	120.00	LF	30.00	3,600
*** Total Natural Gas Piping				4,680
Fixtures, Drains, Connections				
WCH - WATER CLOSET, FLR MNTD, FLUSH VALVE	3.00	EA	1,711.00	5,133
LH - LAVATORY, COUNTERTOP, SELF-RIMMING	3.00	EA	1,428.00	4,284
SS - MOP RECEPTOR, FLR MNTD TERRAZZO	1.00	EA	1,799.00	1,799
EWHC - DRINKING FOUNTAIN WALL HUNG, ELECT, HI / LOW	2.00	EA	2,350.00	4,700
SKH - MULTI-PURP SINK, 1 COMP, SS	1.00	EA	1,655.00	1,655
SKK - KNEE VALVE SINK	2.00	EA	1,837.00	3,674
FD - (2"-3") FLOOR DRAIN, CAST IRON TRAP PRIMERS	5.00	EA	347.00	1,735
WB - APPLIANCE BOX - REFRIDGERATOR	1.00	EA	75.00	75
TRENCH DRAIN CAST IRON	92.00	LF	50.00	4,600
HB - HOSE BIB 3/4"	2.00	EA	75.00	150
HB2 - HOSE BIB 3/4"	2.00	EA	75.00	150
*** Total Fixtures, Drains, Connections				27,955
Water Heaters				
WATER HEATER - INSTANTANIOUS POU	5.00	EA	1,100.00	5,500
*** Total Water Heaters				5,500
Misc. Pumps				
IN-LINE RECIRC PUMP, 3"	1.00	EA	2,600.00	2,600
*** Total Misc. Pumps				2,600
Plumbing Scope Items				
PLUMBING TO 5' OUTSIDE BLDG	1.00	SCOPE		
FIRESTOP OWN PENETRATIONS	5,300.00	SF	0.05	265
*** Total Plumbing Scope Items				265
** Total 22.01 - PLUMBING				88,868
23.01 - HVAC				
Test & Balance				
TEST & BALANCE BY HVAC SUBCONTRACTOR	2,995.00	SF	0.78	2,336
*** Total Test & Balance				2,336
Building HVAC Controls				
CONTROLS TURNKEY - BASIC	2,995.00	SF	1.90	5,691
*** Total Building HVAC Controls				5,691
Refrigerant Piping				
LIQUID PIPING	30.00	LF	14.29	429
*** Total Refrigerant Piping				429
Supply/Return/Exhaust Duct				
GALVANIZED RECTANGULAR DUCT	7,500.00	LB	6.89	51,675
*** Total Supply/Return/Exhaust Duct				51,675

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
Duct & Piping Insulation				
DUCT INSULATION	2,995.00	SF	2.75	8,236
PIPE INSULATION - REFRIDGERANT LINES	30.00	LF	20.00	600
*** Total Duct & Piping Insulation				8,836
Air Distribution Devices				
SUPPLY DIFFUSERS - TYPE A	16.00	EA	100.00	1,600
RETURN GRILLES - TYPE B	6.00	EA	65.00	390
EXHAUST REGISTERS - TYPE D	3.00	EA	65.00	195
EXHAUST REGISTERS - TYPE M	1.00	EA	65.00	65
WALL EXHAUST PORT ASSEMBLY - 4"	8.00	EA	125.00	1,000
MOTORIZED DAMPERS	4.00	EA	155.00	620
*** Total Air Distribution Devices				3,870
Air Distribution Accessories				
LOUVERS	20.00	SF	50.00	1,000
LOUVERS - FIBERGLASS	8.00	SF	200.00	1,600
*** Total Air Distribution Accessories				2,600
Exhaust/Return Fans				
TOILET EXHAUST FANS - EF-g1.1, g1.3, g1.4	225.00	CFM	2.85	641
GENERAL EXHAUST FANS - EF-g1.2	100.00	CFM	2.85	285
WALL PROP EXHAUST FANS - EF-g1.10 & g1.5	5,000.00	CFM	0.40	2,000
INLINE FANS - EF-1.11	200.00	CFM	0.75	150
EXPLOSION PROOF EXHAUST FANS - EF-g1.7 & g1.8	1,000.00	CFM	15.42	15,420
*** Total Exhaust/Return Fans				18,496
AHU DX Systems/ Mini-Split				
RTU - G1.1 - 5 TONS	1.00	EA	5,080.00	5,080
VARIABLE FREQUENCY DRIVE	7.50	HP	200.00	1,500
RIGGING	1.00	EA	1,500.00	1,500
*** Total AHU DX Systems/ Mini-Split				8,080
Computer Room A/C Units				
MINI-SPLIT - EXPLOSION PROOF - 1.5 TON	2.00	EA	24,563.00	49,126
*** Total Computer Room A/C Units				49,126
Fan Coil Units				
AHU-G1.1 - HEAT PUMP 3 TON?	1.00	EA	3,375.00	3,375
*** Total Fan Coil Units				3,375
Unit Heaters				
GAS FIRED - 100 MBTUH	2.00	EA	1,600.00	3,200
ELECTRIC - 5kW	1.00	EA	780.00	780
*** Total Unit Heaters				3,980
HVAC Scope Items				
PROVIDE & INSTALL ROOF TOP SUPPORTS	3.00	EA	2,500.00	7,500
PROVIDE OWN HOISTING FOR HVAC	1.00	LS	5,000.00	5,000
TEMPORARY FILTERS FOR HVAC	3.00	EA	750.00	2,250
FIRESTOP OWN PENETRATIONS (SF OF BLDG AREA)	2,995.00	SF	0.05	150
BIM COORDINATION	1.00	SCOPE	2,500.00	2,500
*** Total HVAC Scope Items				17,400
** Total 23.01 - HVAC				175,894
26.01 - ELECTRICAL				
Site Electrical Ductbank				
SITE DUCT BANK - ELECTRICAL	191.00	LF	225.00	42,975
SITE DUCT BANK CONCRETE	73.00	CY	80.00	5,840
HAUL OFF DUCT BANK SPOILS	89.00	TCY	10.00	890
*** Total Site Electrical Ductbank				49,705
Light Poles & Standards				
LIGHT POLES - ONE ARM - UPDATED PER 09/13 MTG	11.00	EA	3,000.00	33,000
LIGHT POLES - TWO ARM	1.00	EA	3,500.00	3,500
*** Total Light Poles & Standards				36,500
Building Electrical				
INSTITUTIONAL BASE ELECTRICAL	5,300.00	SF		
TELE/DATA CONDUIT & BACK BOXES	5,300.00	SF	0.35	1,855

Williamson County - North Campus Facility

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Estimator: Vaughn Team - TT

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Description	Quantity	UM	Tot.UnitCost	TotalCost
AUDIO VISUAL CONDUIT & BACK BOXES	5,300.00	SF	0.50	2,650
SECURITY CONDUIT & BACK BOXES	5,300.00	SF	0.50	2,650
*** Total Building Electrical				7,155
Secondary Feeders				
SECONDARY FEEDERS	5,300.00	SF	2.75	14,575
*** Total Secondary Feeders				14,575
Distribution Panels and Panelboards				
120/208 V, 4 WIRE, 225 AMP MAIN	1.00	EA	1,850.36	1,850
120/208 V, 4 WIRE, 400 AMP MAIN	1.00	EA	2,800.00	2,800
277/480 V, 4 WIRE, 400 AMP MAIN	1.00	EA	2,800.00	2,800
277/480 V, 4 WIRE, 800 AMP MAIN	1.00	EA	8,860.00	8,860
*** Total Distribution Panels and Panelboards				16,310
Branch Circuiting				
120V DUPLEX OUTLET	22.00	EA	154.22	3,393
120V GFI DUPLEX OUTLET	9.00	EA	158.01	1,422
120V FOURPLEX OUTLET	8.00	EA	188.98	1,512
SINGLE SWITCHES	16.00	EA	141.66	2,267
SWITCH - 4 WAY	4.00	EA	292.40	1,170
WALL MOUNTED OCC. SENSORS	10.00	EA	217.73	2,177
CEILING MOUNTED OCC. SENSORS	5.00	EA	339.38	1,697
J.B.W/25' CONDUIT & WIRE FOR RETRACTABLE POWER CHORD	6.00	EA	154.22	925
CONDUIT & WIRING PER DROP	80.00	EA	138.00	11,040
*** Total Branch Circuiting				25,602
Building Light Fixtures				
TYPE A2 - 2X4 LAY IN LED	10.00	EA	574.00	5,740
TYPE A4 - 2X4 LAY IN LED	4.00	EA	574.00	2,296
TYPE C2 - 2X4 LAY IN LED - W/ GYP FLANGE KIT	2.00	EA	574.00	1,148
TYPE M2 - 2X4 LAY IN LED	4.00	EA	574.00	2,296
TYPE M4 - 2X4 LAY IN LED	12.00	EA	574.00	6,888
TYPE H2 - LED STRIP FIXTURE	8.00	EA	1,100.00	8,800
TYPE T1	11.00	EA	786.00	8,646
TYPE T6E	8.00	EA	786.00	6,288
X1 - LED SINGLE FACE EXIT	10.00	EA	280.80	2,808
TYPE G1 - 2' WRAP AROUND	3.00	EA	274.00	822
TYPE U6???? - 16"X4 HIGH BAY LED	12.00	EA	619.00	7,428
70W HPS WALL PACK	8.00	EA	618.61	4,949
Y1 - EMERGENCY EGRESS FIXTURE	6.00	EA	618.61	3,712
CONDUIT & WIRING PER FIXTURE	98.00	EA	138.00	13,524
*** Total Building Light Fixtures				75,345
Equipment Connections				
POWER TO HW RECIRC PUMP	1.00	EA	272.00	272
POWER TO HW HEATER	1.00	EA	424.10	424
POWER TO INFRARED HEATER	4.00	EA	424.10	1,696
POWER TO OH DOORS	4.00	EA	424.10	1,696
POWER TP AIR COMPRESSOR	2.00	EA	424.10	848
*** Total Equipment Connections				4,937
Transformers				
3 PH 240/480-120/208 112.5 KVA	1.00	EA	6,367.00	6,367
*** Total Transformers				6,367
Fire Alarm				
FIRE ALARM SYSTEM	5,300.00	SF	3.25	17,225
*** Total Fire Alarm				17,225
Other Electrical				
FIRECAULKING	5,300.00	SF	0.12	636
*** Total Other Electrical				636
Electrical Scope Items				
TEMP. ELECTRICAL	5,300.00	SF	0.15	795
*** Total Electrical Scope Items				795
** Total 26.01 - ELECTRICAL				255,152

27.01 - TELECOM/DATA

Equipment

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
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Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost
TYPICAL TR/IDF BUILDOUT (INCL. 4 RACKS, LADDER RACKS, CABLE MANAGEMENT, POWER STRIPS, BONDING STRAPS)	1.00	EA	8,865.00	8,865
*** Total Equipment				8,865
Horizontal Cabling/Distribution				
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - CAMERAS	6.00	EA.	189.00	1,134
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - WAP	3.00	EA.	189.00	567
DATA OUTLET - 2 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) (INCL. CABLING, CONNECTORS, FACE PLATE)	11.00	EA	225.00	2,475
*** Total Horizontal Cabling/Distribution				4,176
** Total 27.01 - TELECOM/DATA				13,041
28.01 - SECURITY				
Access Control				
ELECTRIC DOOR STATUS INDICATOR DEVICES	20.00	EA	150.00	3,000
PANIC BUTTONS	1.00	EA	400.00	400
CARD READERS (PER DOOR, READER, REX, LOCK, DOOR CONTACTS, WIRING, INSTALL)	9.00	EA	1,200.00	10,800
*** Total Access Control				14,200
Other Access Control				
HEADEND - (PER DOOR INCLUDES CONTROL PANEL, LOCK POWER SUPPLY)	9.00	EA	600.00	5,400
*** Total Other Access Control				5,400
Electronic Surveillance				
STATIONARY CAMERAS - EXTERIOR	4.00	EA	2,800.00	11,200
STATIONARY CAMERAS - INTERIOR		EA	2,100.00	
CAMERA DOMES	10.00	EA	350.00	3,500
*** Total Electronic Surveillance				14,700
** Total 28.01 - SECURITY				34,300
31.01 - EARTHWORK				
Stripping				
STRIPPING - LARGER THAN 2 ACRES	1,695.00	TCY	2.88	4,885
HAUL OFF STRIPPING MATERIALS	1,695.00	TCY	2.51	4,254
*** Total Stripping				9,138
Building Mass Excavation				
EXPORT MATERIALS - BUILDING	1,370.00	TCY	7.53	10,314
MASS EXCAVATION - VEHICLE INSPECTION BUILDING	1,370.00	TCY	2.84	3,894
*** Total Building Mass Excavation				14,208
Building Structural Fill				
STRUCTURAL FILL - VEHICLE INSPECTION BUILDING (6')	3,654.00	TCY	1.60	5,840
IMPORT MATERIALS - SELECT FILL	3,654.00	TCY	15.06	55,019
SCARIFY AND COMPACT - VEHICLE INSPECTION BUILDING	7,900.00	SF	0.15	1,166
*** Total Building Structural Fill				62,024
Paving Cut/Fill				
IMPORT MATERIALS - PAVING (SELECT FILL)	4,661.00	TCY	15.06	70,181
EXPORT MATERIALS - PAVING		TCY	7.53	
CUT FOR SITE PAVING		TCY	17.57	
FILL FOR SITE PAVING	4,661.00	TCY	2.50	11,664
*** Total Paving Cut/Fill				81,845
Misc. Site Cut/Fill				
BACKFILL CURBS (CREW & MATERIAL)	530.00	TCY	6.71	3,559
*** Total Misc. Site Cut/Fill				3,559
Base Materials				
PLACE 12" LIMESTONE BASE	4,430.00	TON	2.06	9,118
PURCHASE LIMESTONE BASE	4,430.00	TON	15.06	66,703
*** Total Base Materials				75,821

Williamson County - North Campus Facility

Loc: Georgetown, Texas

Est Date: 08/29/2016

Project Size: 0 sqft

Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
Lime Stabilization				
STABILIZE SUBGRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	7,050.00	SYD	2.06	14,488
STABILIZE SUBGRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	11,194.00	SYD	1.29	14,489
BLUE TOP / CUT TO GRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	63,454.00	SF	0.06	3,691
BLUE TOP / CUT TO GRADE - ASPHALT SUBGRADE (12" FLEX BASE, 12" FILL, 6" LIME STAB.)	100,739.00	SF	0.04	3,694
PURCHASE LIME	329.00	TON	200.76	66,051
FUEL FOR STABILIZATION	2.00	WK	2,409.05	4,818
FUEL FOR STABILIZATION	2.00	WK	2,436.04	4,872
CALCULATION - 36LBS PER SY x SY / 2000 = TONS	2.00	SCOPE		
*** Total Lime Stabilization				112,103
** Total 31.01 - EARTHWORK				358,698
31.05 - SOIL TREATMENT				
Termite Treatment				
TERMITE TREATMENT	5,300.00	SF	0.16	848
*** Total Termite Treatment				848
** Total 31.05 - SOIL TREATMENT				848
32.01 - ASPHALT				
Asphalt Paving				
ASPHALT PAVING - 2" TYPE D	59,072.00	SF	1.60	94,509
*** Total Asphalt Paving				94,509
** Total 32.01 - ASPHALT				94,509
32.07 - FENCES & GATES				
Chain Link Fences				
CHAIN LINK FENCE - 6' TALL W/ RAZOR WIRE	2,149.00	LF	15.00	32,235
CHAIN LINK FENCE GATES - 26' WIDE	6.00	EA	2,400.00	14,400
GATE OPERATORS	6.00	EA	5,231.33	31,388
*** Total Chain Link Fences				78,023
** Total 32.07 - FENCES & GATES				78,023
32.14 - STRIPING & SIGNS				
Handicap Signs				
HC SIGNS WITH POSTS	1.00	EA	200.00	200
*** Total Handicap Signs				200
Striping				
SPACES	343.00	EA	10.00	3,430
HATCHINGS	1.00	EA	30.00	30
*** Total Striping				3,460
Wheel Stops				
WHEEL STOPS	343.00	EA	35.00	12,005
*** Total Wheel Stops				12,005
** Total 32.14 - STRIPING & SIGNS				15,665
33.01 - SITE UTILITIES				
Water Piping				
PVC SCH 40 PIPE - 2.5"	110.00	LF	11.95	1,314
PVC SCH 40 BEND - 2.5"	4.00	EA	14.43	58
INSTALL WATER LINE PIPE	110.00	LF	31.31	3,444
BANK SAND	70.00	TCY	23.09	1,616
*** Total Water Piping				6,433
Fire Line Piping				
FIRE LINE - 6"	121.00	LF	57.72	6,985
INSTALL FIRE LINE PIPE	121.00	LF	28.47	3,444
FITTING - 6"	4.00	EA	288.62	1,154
THRUST BLOCKS	4.00	CY	230.90	924
BANK SAND	120.00	TCY	23.09	2,771
*** Total Fire Line Piping				15,278

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
Testing & Disinfection				
DISINFECTION OF WATER PIPING	1.00	SCOPE		
HYDROSTATIC TESTING OF WATER PIPING	1.00	SCOPE		
*** Total Testing & Disinfection				
Sanitary Piping				
PVC SDR 26 - 4"	218.00	LF	4.98	1,085
INSTALL SANTIARY PIPE	218.00	LF	15.80	3,444
CEMENT STABILIZED BACKFILL	348.00	TONS	16.80	5,846
CLEANOUT	3.00	EA	398.21	1,195
*** Total Sanitary Piping				11,570
Sanitary Structures				
OIL/WATER SEPARATOR BY PLUMBER	1.00	SCOPE		
*** Total Sanitary Structures				
Miscellaneous Utilities				
HAUL SANITARY SPOILS	268.00	TCY	8.82	2,365
HAUL WATER SPOILS	70.00	TCY	5.97	418
HAUL FIRE SPOILS	120.00	TCY	12.34	1,481
*** Total Miscellaneous Utilities				4,263
** Total 33.01 - SITE UTILITIES				37,544
* Total VEHICLE INSPECTION BUILDING	5,300.00	SF	375.72	1,991,290

Williamson County - North Campus Facility

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Description	Quantity	UM	Tot.UnitCost	TotalCost
ALT#2 - MAINTENANCE BUILDING EXPANSION				
02.01 - REMOVALS				
Exterior Demolition				
REMOVE EXT. EAVE TO ACCOMMODATE CANOPY ADDITION	110.00	LF	35.00	3,850
*** Total Exterior Demolition				3,850
Interior Demolition				
REMOVE DRYWALL PARTITIONS	8.00	LF	53.86	431
REMOVE DOORS	4.00	EA	98.92	396
REMOVE MOTORIZED COILING DOOR	1.00	EA	195.37	195
REMOVE SECTION OF MASONRY WALL	18.00	SF	42.87	772
DUMPSTERS FOR DEMOLITION - 30 CY	1.00	EA	585.00	585
MISC. INTERIOR REMOVALS	1.00	LS	1,500.00	1,500
*** Total Interior Demolition				3,879
** Total 02.01 - REMOVALS				7,729
03.00 - CONCRETE TURNKEY				
Site Concrete				
8" CONCRETE PAVING	3,585.00	SF	9.50	34,058
*** Total Site Concrete				34,058
Building Concrete				
MAINTENANCE AWNING - GRADE BEAMS	100.00	LF	160.00	16,000
MAINTENANCE AWNING - SLAB ON GRADE	635.00	SF	20.00	12,700
MAINTENANCE AWNING - STRAP BEAMS	70.00	LF	190.00	13,300
*** Total Building Concrete				42,000
** Total 03.00 - CONCRETE TURNKEY				76,058
04.01 - MASONRY				
Reinforcing Steel				
MASONRY REBAR	0.40	TON	890.00	360
*** Total Reinforcing Steel				360
Concrete Masonry Units (CMU)				
PARTITION TYP P = CMU CAVITY WALL - 4" STANDARD	610.00	SF	8.00	4,880
CMU - 8" STANDARD GROUT FILL @ 48" O.C. - INTERIOR	542.00	SF	9.00	4,878
CMU - 4" VENEER	1,133.00	SF	8.45	9,574
CMU - 8" BACKUP WALL TO EXTERIOR MASONRY	1,045.00	SF	11.45	11,965
*** Total Concrete Masonry Units (CMU)				31,297
Masonry Scaffolding				
SCAFFOLDING FOR EXTERIOR MASONRY	2,788.00	SF	1.89	5,269
*** Total Masonry Scaffolding				5,269
Masonry Scope Items				
PERLITE INSULATION IN EXTERIOR MASONRY BLOCKS	1,324.00	SF	2.00	2,648
*** Total Masonry Scope Items				2,648
** Total 04.01 - MASONRY				39,575
05.01 - STEEL FABRICATION				
Steel Fabrication Budget				
MISC INTERIOR STEEL - 0.5 LB/SF	1.00	TONS	3,200.00	3,200
TOILET PARTITION SUPPORTS	24.00	LF	40.00	960
COILING DOOR SUPPORTS	7.00	EA	500.00	3,500
BLOCK WALL HEAD SUPPORTS	51.00	LF	24.00	1,224
*** Total Steel Fabrication Budget				8,884
Steel Fabrication				
COLUMNS - HSS TUBES	1.00	TON	3,200.00	3,200
COLUMNS - W SHAPES	1.00	TON	3,200.00	3,200
BEAMS - K SHAPES	1.00	TON	3,200.00	3,200
BEAMS - W SHAPES	11.00	TON	3,200.00	35,200
PERIMETER ROOF ANGLES - MAIN STRUCTURE	7.00	TON	3,200.00	22,400
*** Total Steel Fabrication				67,200
Decking				

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Description	Quantity	UM	Tot.UnitCost	TotalCost
ROOF DECK	32.00	SQS	160.00	5,120
*** Total Decking				5,120
Ladders				
ACCESS LADDER WITH SAFETY CAGE (\$150/LF)	1.00	EA	2,250.00	2,250
*** Total Ladders				2,250
Overhead Support Framing				
PIPE BOLLARDS	14.00	EA	110.00	1,540
*** Total Overhead Support Framing				1,540
** Total 05.01 - STEEL FABRICATION				84,994
05.02 - STEEL ERECTION				
Steel Erection Budget				
INSTALL MASONRY WALL CLIPS	51.00	LF	28.00	1,428
*** Total Steel Erection Budget				1,428
Structural Steel Erection				
JOIST BRIDGING	87.00	LF	6.63	577
OPERATED CRANE FOR STEEL ERECTION	10.00	DAY	1,200.00	12,000
*** Total Structural Steel Erection				12,577
Deck Erection				
STRUCTURAL STEEL ERECTION - MAIN STRUCTURE	2.00	WKS	4,887.16	9,774
ROOF DECK	3,124.00	SF	0.56	1,745
*** Total Deck Erection				11,519
Ladders				
ACCESS LADDER WITH SAFETY CAGE	1.00	EA	257.37	257
*** Total Ladders				257
Masonry Lintels				
MASONRY RELIEF LINTELS	210.00	LF	30.44	6,393
*** Total Masonry Lintels				6,393
Misc. Steel Erection				
PIPE BOLLARDS	14.00	EA	88.05	1,233
*** Total Misc. Steel Erection				1,233
** Total 05.02 - STEEL ERECTION				33,407
06.06 - ROUGH CARPENTRY				
Roof Blocking				
ROOF BLOCKING - PLYWOOD SHEATHING - 1/2" @ SIDEWALL DETAIL	35.00	SF	1.84	64
ROOF BLOCKING - 2 x 4 TREATED WOOD BLOCKING @ SIDE WALL DETAIL	350.00	LF	1.95	681
ROOF BLOCKING - 2 x 6 TREATED WOOD BLOCKING @ SIDE WALL DETAIL	100.00	LF	2.20	220
ROOF BLOCKING - 2 x 8 TREATED WOOD BLOCKING	190.00	LF	2.76	524
*** Total Roof Blocking				1,490
** Total 06.06 - ROUGH CARPENTRY				1,490
07.01 - WATERPROOF / DAMPPROOF / JOINT SEALANTS				
PVC Flashings				
BASE LAP FLASHING @ CMU	65.00	LF	2.01	131
40 MIL SELF ADHERED TO 12" @ OPENINGS	112.00	LF	2.01	225
*** Total PVC Flashings				356
Aluminum Flashings				
ALUMINUM COUNTER FLASHING	100.00	LF	6.50	650
*** Total Aluminum Flashings				650
Fluid Applied Waterproofing				
FLUID APPLIED BITUMEN MODIFIED POLYURETHANE - MASONRY	1,680.00	SF	4.00	6,720
FLUID APPLIED BITUMEN MODIFIED POLYURETHANE - MWP	120.00	SF	4.00	480
*** Total Fluid Applied Waterproofing				7,200
Water Repellents				
FLUID APPLIED VAPOR AND AIR BARRIER	1,089.00	SF	3.55	3,866

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WATER REPELLENT EXTERIOR MASONRY 40% VOC	1,680.00	SF	1.00	1,680
*** Total Water Repellents				5,546
Building Facade Joint Sealants				
HORIZONTAL JOINT SEALANTS - BRICK TO BRICK	200.00	LF	2.60	520
VERTICAL JOINT SEALANTS - BRICK TO BRICK	86.00	LF	2.60	224
*** Total Building Facade Joint Sealants				744
** Total 07.01 - WATERPROOF / DAMPPROOF / JOI				14,495
07.02 - INSULATION				
Rigid Insulation				
RIGID INSULATION - MASONRY	1,100.00	SF	3.89	4,279
RIGID INSULATION - MWP	155.00	SF	3.89	603
*** Total Rigid Insulation				4,882
** Total 07.02 - INSULATION				4,882
07.03 - ROOFING				
Membrane Roofing				
PVC MEMBRANE FLASHING BETWEEN NEW & EXISTING ROOFS	22.00	SF	8.89	196
PVC MEMBRANE ROOF -60 MIL FULLY ADHERED	3,152.00	SF	8.89	28,021
EXTEND PVC MEMBRANE ROOF UP 3' -60 MIL FULLY ADHERED	94.00	SF	25.00	2,350
*** Total Membrane Roofing				30,567
Roof Insulation				
POLYISOCYNURATE - TAPERED FOR DRAINAGE	3,152.00	SF	3.00	9,456
*** Total Roof Insulation				9,456
Gutters & Downspouts				
GUTTER - 6" GALVANIZED	92.00	LF	10.00	920
DOWNSPOUT - 6" GALVANIZED	39.00	LF	10.00	390
*** Total Gutters & Downspouts				1,310
Roof Flashings				
CONTINUOUS METAL CAP FLASHING	50.00	LF	5.25	263
METAL CLEAT & FLASHING @ SIDE WALL	35.00	LF	10.00	350
MEMBRANE FLASHING @ SIDE WALL BETWEEN NEW & EXISTING ROOFS	35.00	SF	4.00	140
ALUMINUM COUNTER FLASHING	56.00	SF	2.75	154
CONTINUOUS REGLET IN EXIST CMU WITH CLEAT AND SIDEWALL FLASHING	30.00	SF	12.00	360
SCUPPER - ALUMINUM	2.00	EA	100.00	200
*** Total Roof Flashings				1,467
Roof Demolition				
REMOVE EXIST. ROOF FOR NEW TIE-IN - DETAIL 5/Ab.03	96.00	SF	15.00	1,440
*** Total Roof Demolition				1,440
** Total 07.03 - ROOFING				44,239
07.05 - METAL ROOF & WALL PANELS				
Metal Wall Panels				
METAL WALL PANELS	153.00	SF	20.00	3,060
SCAFFOLDING FOR EXTERIOR WALL PANELS	153.00	SF	1.00	153
*** Total Metal Wall Panels				3,213
Flashings & Trim				
SHEETMETAL FLASHING	114.00	LF	4.00	456
GALVALUME FLASHING	216.00	LF	4.00	864
*** Total Flashings & Trim				1,320
** Total 07.05 - METAL ROOF & WALL PANELS				4,533
08.01 - HOLLOW METAL				
Door Frames				
3070 HOLLOW METAL FRAME	6.00	EA	149.00	894
6070 HOLLOW METAL FRAME	2.00	EA	194.00	388
*** Total Door Frames				1,282

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Description	Quantity	UM	Tot.UnitCost	TotalCost
Window Frames				
HOLLOW METAL EXT WINDOW FRAME - 4' x 1'-06"-	2.00	EA	150.00	300
*** Total Window Frames				300
Doors				
3070 HOLLOW METAL DOOR	5.00	EA	300.00	1,500
3070 HOLLOW METAL DOOR - INSULATED	4.00	EA	350.00	1,400
3070 HOLLOW METAL DOOR WITH LOUVERS TO MATCH EXISTING	2.00	EA	300.00	600
*** Total Doors				3,500
** Total 08.01 - HOLLOW METAL				5,082
08.10 - OVERHEAD DOORS/COILING GRILLS				
Overhead Doors				
FIRE RATED OVERHEAD COILING DOOR-6x8 - INSULATED WITH WINDOWS	1.00	EA	5,670.00	5,670
PREMIUM FOR MOTOR OPERATIONS OVER 6x8	1.00	EA	1,450.00	1,450
*** Total Overhead Doors				7,120
** Total 08.10 - OVERHEAD DOORS/COILING GRILL				7,120
08.28 - GLASS & GLAZING				
Glass Doors & Entrances				
INSULATED GLAZING @ EXT WINDOWS - FRAMES BY OTHERS	12.00	SF	275.00	3,300
INSULATED GLAZING @ OVERHEAD DOOR	4.00	SF	40.00	160
*** Total Glass Doors & Entrances				3,460
** Total 08.28 - GLASS & GLAZING				3,460
08.34 - FINISH HARDWARE				
Hardware Sets				
DOOR HARDWARE SET #3	1.00	EA	620.00	620
DOOR HARDWARE SET #4	1.00	EA	620.00	620
DOOR HARDWARE SET #5	2.00	EA	620.00	1,240
DOOR HARDWARE SET #6	1.00	EA	620.00	620
DOOR HARDWARE SET #7	2.00	EA	620.00	1,240
DOOR HARDWARE SET #8	1.00	EA	620.00	620
*** Total Hardware Sets				4,960
** Total 08.34 - FINISH HARDWARE				4,960
08.38 - DOOR & HARDWARE INSTALLATION				
Door Distribution				
DISTRIBUTE HOLLOW METAL DOORS	11.00	EA	14.31	157
*** Total Door Distribution				157
Frame Distribution				
DISTRIBUTE HOLLOW METAL FRAMES	8.00	EA	14.31	114
*** Total Frame Distribution				114
Set Hollow Metal Doors				
SET HOLLOW METAL DOORS	11.00	EA	39.00	429
*** Total Set Hollow Metal Doors				429
Install Hardware Sets				
LABOR TO SET	8.00	EA	216.32	1,731
UNLOAD AND DISTRIBUTE HARDWARE SETS	8.00	EA	38.94	312
*** Total Install Hardware Sets				2,042
** Total 08.38 - DOOR & HARDWARE INSTALLATION				2,743
09.02 - DRYWALL				
Other Wood & Plastics				
FRP @ TOILET WALLS	94.00	SF	8.00	752
*** Total Other Wood & Plastics				752
Exterior Gypboard Partitions				
TO 10' -16 GA.6"STUDS@16", EXT.SHEATH,INT. GYP @ PARAPIT	52.00	LF	160.00	8,320
*** Total Exterior Gypboard Partitions				8,320
Furred Walls, One Layer on Finish Side				

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Description	Quantity	UM	Tot.UnitCost	TotalCost
TO 10' -20 GA.3 1/2"@16",1 EA 5/8"GYP FINISH SIDE	26.00	LF	112.00	2,912
*** Total Furred Walls, One Layer on Finish S				2,912
Drywall Ceilings				
DRYWALL CEILING - 1 LAYER GYP TO 8' HEIGHT	326.00	SF	6.00	1,956
*** Total Drywall Ceilings				1,956
Acoustical Ceilings				
STANDARD 2 x 2 ACOUSTICAL CEILING	173.00	SF	5.00	865
*** Total Acoustical Ceilings				865
** Total 09.02 - DRYWALL				14,805
09.03 - TILE				
Tile Scope Items				
FLOOR PROTECTION	335.00	SF	0.96	321
*** Total Tile Scope Items				321
** Total 09.03 - TILE				321
09.07 - CARPET, VINYL FLOORING, & BASE				
Resilient Base				
RUBBER BASE	240.00	LF	1.10	264
*** Total Resilient Base				264
** Total 09.07 - CARPET, VINYL FLOORING, & BA				264
09.12 - PAINTING				
Paint Drywall				
PAINT DRYWALL PARTITIONS	208.00	SF	1.10	229
PAINT DRYWALL PARTITIONS	208.00	SF	0.45	94
PAINT DRYWALL CEILINGS	326.00	SF	1.23	401
PAINT DRYWALL CEILINGS	326.00	SF	0.45	147
*** Total Paint Drywall				870
Paint Masonry				
BLOCK FILLER	2,090.00	SF	0.50	1,045
PAINT CMU	2,090.00	SF	0.60	1,254
*** Total Paint Masonry				2,299
Paint Doors & Frames				
PAINT HOLLOW METAL FRAMES	28.00	EA	50.00	1,400
PAINT HOLLOW METAL FRAMES	28.00	EA	50.00	1,400
PAINT HOLLOW METAL DOORS	13.00	EA	50.00	650
PAINT HOLLOW METAL DOORS	13.00	EA	50.00	650
*** Total Paint Doors & Frames				4,100
Paint Steel Members				
EPOXY PAINT BOLLARDS	16.00	EA	125.00	2,000
*** Total Paint Steel Members				2,000
MEP Painting				
PAINT EXPOSED STRUCTURE ABOVE	4,844.00	SF	2.00	9,688
*** Total MEP Painting				9,688
Paint Preparation				
TAPE & FLOAT BY PAINTER	365.00	SF	0.55	201
TAPE & FLOAT BY PAINTER	365.00	SF	1.30	475
*** Total Paint Preparation				675
** Total 09.12 - PAINTING				19,632
09.16 - CONCRETE SEALER				
Concrete Sealer				
CONCRETE SEALER - TWO COATS	390.00	SF	1.10	429
*** Total Concrete Sealer				429
** Total 09.16 - CONCRETE SEALER				429
10.03 - TOILET COMPARTMENTS				
Plastic Toilet Compartments				
HDPE TOILET COMPARTMENTS	1.00	EA	900.00	900
HDPE PLASTIC LAMINATE HANDICAP TOILET COMPARTMENTS	2.00	EA	1,000.00	2,000
HDPE URINAL SCREENS	1.00	EA	225.00	225
*** Total Plastic Toilet Compartments				3,125

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Install Toilet Compartments				
INSTALL TOILET PARTITIONS	3.00	EA	111.15	333
INSTALL URINAL SCREEN	1.00	EA	111.15	111
*** Total Install Toilet Compartments				445
** Total 10.03 - TOILET COMPARTMENTS				3,570
10.08 - SIGNAGE				
Miscellaneous Signage				
SIGNAGE ALLOWANCE PER OPENING	7.00	EA	125.00	875
*** Total Miscellaneous Signage				875
** Total 10.08 - SIGNAGE				875
10.09 - LOCKERS				
Wood Lockers				
HDPE LOCKERS - DOUBLE TIER	10.00	EA	830.00	8,300
*** Total Wood Lockers				8,300
Locker Room Benches				
LOCKER BENCH - 4'	1.00	EA	325.00	325
*** Total Locker Room Benches				325
** Total 10.09 - LOCKERS				8,625
10.17 - TOILET ACCESSORIES				
Grab Bars				
GRAB BARS - 36" SATIN FINISH, EXPOSED MTD.	2.00	EA	29.50	59
GRAB BARS - 42" SATIN FINISH, EXPOSED MTD.	2.00	EA	38.50	77
*** Total Grab Bars				136
Paper Towel Dispensers				
PAPER TOWEL DISPENSER W/WASTE RECEIPT REC MTD - SMALL	2.00	EA	180.00	360
*** Total Paper Towel Dispensers				360
Toilet Paper Dispensers				
TOILET TISSUE DISPENSER, EXPOSED, SURFACE MTD	3.00	EA	30.00	90
*** Total Toilet Paper Dispensers				90
Napkin/Vendor Dispensers				
NAPKIN/TAMPON VENDOR SURFACE MTD	1.00	EA	350.00	350
*** Total Napkin/Vendor Dispensers				350
Sanitary Napkin Disposals				
SANITARY NAPKIN DISPOSAL SURFACE MTD - OPEN FROM TOP	2.00	EA	30.00	60
TOILET SEAT COVER DISPENSER SURFACE MTD	3.00	EA	40.00	120
*** Total Sanitary Napkin Disposals				180
Soap Dispensers				
SOAP DISPENSER - SURFACE MTD	4.00	EA	45.00	180
*** Total Soap Dispensers				180
Diaper Changing Stations				
DIAPER CHANGING STATION	2.00	EA	350.00	700
*** Total Diaper Changing Stations				700
Hand Dryers				
HAND DRYER, TOUCHLESS AIR BLADE SURFACE MTD	2.00	EA	1,300.00	2,600
*** Total Hand Dryers				2,600
Install Toilet Accessories				
INSTALL GRAB BARS	4.00	EA	14.40	58
INSTALL PAPER TOWEL DISPENSERS REC MTD	2.00	EA	14.40	29
INSTALL TOILET TISSUE DISPENSER	3.00	EA	21.61	65
INSTALL TOILET SEAT COVER DISPENSER	3.00	EA	14.40	43
INSTALL SOAP DISPENSER	4.00	EA	14.40	58
INSTALL DIAPER CHANGING STATION	2.00	EA	14.40	29
*** Total Install Toilet Accessories				281
** Total 10.17 - TOILET ACCESSORIES				4,877

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Description	Quantity	UM	Tot.UnitCost	TotalCost
21.01 - FIRE PROTECTION				
Sprinkler Systems				
INSTITUTIONAL BASE FIRE PROTECTION	600.00	SF	3.75	2,250
INSTITUTIONAL BASE FIRE PROTECTION - DRY TYPE BELOW CANOPY	1,900.00	SF	5.75	10,925
*** Total Sprinkler Systems				13,175
** Total 21.01 - FIRE PROTECTION				13,175
22.01 - PLUMBING				
Demo Building Plumbing				
SAWCUT INTERIOR CONCRETE FLOOR - FULL DEPTH (UP TO 6")	75.00	LF	9.00	675
REMOVE CONCRETE FLOOR - 6" THICK	35.00	SF	3.40	119
*** Total Demo Building Plumbing				794
Building Plumbing				
INSTITUTIONAL BASE PLUMBING	600.00	SF		
*** Total Building Plumbing				
Domestic Water Piping				
L-Cu DIST. PIPING 1/2"	89.00	LF	38.00	3,382
L-Cu DIST. PIPING 3/4"	65.00	LF	46.00	2,990
L-Cu DIST. PIPING 1"	39.00	LF	49.00	1,911
L-Cu DIST. PIPING 1 1/2"	11.00	LF	52.00	572
L-Cu DIST. PIPING 2"	16.00	LF	58.00	928
*** Total Domestic Water Piping				9,783
Cleanouts & Specialties				
BACKFLOW PREVENTER 2 1/2" > 3"	2.00	EA	1,000.00	2,000
*** Total Cleanouts & Specialties				2,000
Sanitary Waste & Vent Piping				
C.I. WASTE & VENT UNDERGROUND 2"	31.00	LF	42.00	1,302
C.I. WASTE & VENT UNDERGROUND 3"	76.00	LF	51.00	3,876
C.I. WASTE & VENT UNDERGROUND 4"	160.00	LF	67.00	10,720
EXCAVATION & BACKFILL	84.00	LF	20.00	1,680
*** Total Sanitary Waste & Vent Piping				17,578
Floor Drains, Cleanouts, & Specialties				
FLOOR CLEANOUT 4"	4.00	EA	275.00	1,100
YARD CLEANOUT 4"	1.00	EA	250.00	250
*** Total Floor Drains, Cleanouts, & Specialt				1,350
Fixtures, Drains, Connections				
WC - WATER CLOSET, FLR MNTD, FLUSH VALVE	1.00	EA	1,711.00	1,711
WCH - WATER CLOSET, FLR MNTD, FLUSH VALVE	3.00	EA	1,711.00	5,133
URH - URINAL, WALL HUNG FLUSH VALVE	1.00	EA	1,955.00	1,955
LH - LAVATORY, WALL HUNG VITREOUS	3.00	EA	1,520.00	4,560
SHOWER ENCLOSURE, FIBERGLASS	2.00	EA	2,290.00	4,580
SS - MOP RECEPTOR, FLR MNTD TERRAZZO	1.00	EA	1,799.00	1,799
FD - (2"-3") FLOOR DRAIN, CAST IRON	4.00	EA	347.00	1,388
*** Total Fixtures, Drains, Connections				21,126
Water Heaters				
WATER HEATER	1.00	EA	3,500.00	3,500
*** Total Water Heaters				3,500
Misc. Pumps				
IN-LINE RECIRC PUMP, 3"	1.00	EA	2,600.00	2,600
*** Total Misc. Pumps				2,600
Plumbing Scope Items				
PLUMBING TO 5' OUTSIDE BLDG	1.00	SCOPE		
FIRESTOP OWN PENETRATIONS	600.00	SF	0.05	30
*** Total Plumbing Scope Items				30
** Total 22.01 - PLUMBING				58,761
23.01 - HVAC				
Building HVAC				
DX SYSTEM	5.00	TONS	5,500.00	27,500

Williamson County - North Campus Facility

Loc: Georgetown, Texas
Project Size: 0 sqft
Type: GMP

Est Date: 08/29/2016
Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost
*** Total Building HVAC				27,500
** Total 23.01 - HVAC				27,500
26.01 - ELECTRICAL				
Building Electrical				
INSTITUTIONAL BASE ELECTRICAL	600.00	SF		
TELE/DATA CONDUIT & BACK BOXES	600.00	SF	0.35	210
AUDIO VISUAL CONDUIT & BACK BOXES	600.00	SF	0.50	300
SECURITY CONDUIT & BACK BOXES	600.00	SF	0.50	300
*** Total Building Electrical				810
Secondary Feeders				
SECONDARY FEEDERS	600.00	SF	6.14	3,684
*** Total Secondary Feeders				3,684
Distribution Panels and Panelboards				
DISTRIBUTION PANELS	600.00	SF	6.84	4,104
*** Total Distribution Panels and Panelboards				4,104
Branch Circuiting				
120V DUPLEX OUTLET	3.00	EA	154.22	463
120V GFI DUPLEX OUTLET	7.00	EA	158.01	1,106
ADD FOR WEATHERPROOF COVER	2.00	EA	20.00	40
SINGLE SWITCHES	5.00	EA	141.66	708
ROLL-UP DOOR POWER CONNECTIONS	1.00	EA	480.00	480
WALL MOUNTED OCC. SENSORS	1.00	EA	217.73	218
CONDUIT & WIRING PER DROP	19.00	EA	127.00	2,413
*** Total Branch Circuiting				5,428
Building Light Fixtures				
TYPE A2 - 2X4 LAY IN LED	3.00	EA	574.00	1,722
TYPE C2 - 2X4 LAY IN LED - W/ GYP FLANGE KIT	4.00	EA	574.00	2,296
TYPE J3 - LED WET LOCATION STRIP FIXTURE	18.00	EA	525.00	9,450
6" RECESSED LED - WET LOCATION	2.00	EA	561.00	1,122
X1 - LED SINGLE FACE EXIT	1.00	EA	280.80	281
Y1 - EMERGENCY EGRESS FIXTURE	3.00	EA	618.61	1,856
CONDUIT & WIRING PER FIXTURE	31.00	EA	127.00	3,937
*** Total Building Light Fixtures				20,664
HVAC Connections				
PACKAGE UNIT - 3 - 7.5 TON	1.00	EA	750.00	750
EF CONNECTION	1.00	EA	1,250.00	1,250
*** Total HVAC Connections				2,000
Equipment Connections				
POWER TO HW HEATER	1.00	EA	424.10	424
POWER TO OH DOORS	1.00	EA	424.10	424
*** Total Equipment Connections				848
Transformers				
TRANSFORMERS	600.00	SF	7.84	4,704
*** Total Transformers				4,704
Fire Alarm				
FIRE ALARM SYSTEM	600.00	SF	4.75	2,850
*** Total Fire Alarm				2,850
Other Electrical				
FIRECAULKING	600.00	SF	0.84	504
*** Total Other Electrical				504
Electrical Scope Items				
TEMP. ELECTRICAL	600.00	SF	1.25	750
*** Total Electrical Scope Items				750
** Total 26.01 - ELECTRICAL				46,346
27.01 - TELECOM/DATA				
Horizontal Cabling/Distribution				
DATA OUTLET - 1 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) - WAP	2.00	EA.	293.00	586

Williamson County - North Campus Facility

Loc: Georgetown, Texas

Est Date: 08/29/2016

Project Size: 0 sqft

Estimator: Vaughn Team - TT

Type: GMP

Description	Quantity	UM	Tot.UnitCost	TotalCost
DATA OUTLET - 2 DATA DROP (INCL. CABLING, CONNECTORS, FACE PLATE, TESTING) (INCL. CABLING, CONNECTORS, FACE PLATE)	1.00	EA	430.00	430
*** Total Horizontal Cabling/Distribution				1,016
** Total 27.01 - TELECOM/DATA				1,016
28.01 - SECURITY				
Access Control				
ELECTRIC DOOR STATUS INDICATOR DEVICES	3.00	EA	150.00	450
CARD READERS (PER DOOR, READER, REX, LOCK, DOOR CONTACTS, WIRING, INSTALL)	2.00	EA	1,200.00	2,400
*** Total Access Control				2,850
Other Access Control				
CARD READER ROUGH IN (PER DOOR)	2.00	EA	1,500.00	3,000
HEADEND - (PER DOOR INCLUDES CONTROL PANEL, LOCK POWER SUPPLY)	2.00	EA	600.00	1,200
*** Total Other Access Control				4,200
Electronic Surveillance				
STATIONARY CAMERAS - INTERIOR	3.00	EA	3,200.00	9,600
CAMERA DOMES	1.00	EA	350.00	350
*** Total Electronic Surveillance				9,950
** Total 28.01 - SECURITY				17,000
31.01 - EARTHWORK				
Paving Demo				
REMOVE ASPHALT PAVING	13,554.00	SF	1.00	13,554
DUMP TRUCK FOR HAUL OFF PER TCY - 12 YARD TRUCK	760.00	TCY	13.26	10,078
*** Total Paving Demo				23,632
Stripping				
STRIPPING - LARGER THAN 2 ACRES	623.00	TCY	5.64	3,514
HAUL OFF STRIPPING MATERIALS	623.00	TCY	2.65	1,652
*** Total Stripping				5,166
Building Mass Excavation				
EXPORT MATERIALS - BUILDING	168.00	TCY	7.96	1,337
MASS EXCAVATION - MAINT. AWNING	168.00	TCY	8.19	1,376
*** Total Building Mass Excavation				2,712
Building Structural Fill				
STRUCTURAL FILL - MAINT. AWNING	400.00	TCY	6.88	2,751
IMPORT MATERIALS - SELECT FILL	400.00	TCY	15.91	6,365
SCARIFY AND COMPACT - MAINTENANCE BUILDING EXPANSION	2,000.00	SF	0.41	820
*** Total Building Structural Fill				9,936
Paving Cut/Fill				
IMPORT MATERIALS - PAVING (SELECT FILL)	1,371.00	TCY	15.91	21,815
FILL FOR SITE PAVING	1,371.00	TCY	3.59	4,919
*** Total Paving Cut/Fill				26,735
Lime Stabilization				
STABILIZE SUBGRADE - AREA 1	1,506.00	SYD	6.77	10,196
BLUE TOP / CUT TO GRADE	13,554.00	SF	0.12	1,615
PURCHASE LIME	30.00	TON	160.00	4,800
FUEL FOR STABILIZATION	1.00	WK	1,500.00	1,500
*** Total Lime Stabilization				18,111
** Total 31.01 - EARTHWORK				86,291
31.05 - SOIL TREATMENT				
Termite Treatment				
TERMITE TREATMENT	600.00	SF	0.16	96
*** Total Termite Treatment				96
** Total 31.05 - SOIL TREATMENT				96
32.01 - ASPHALT				
Asphalt Paving				
ALT 2 - PLACE 10" HMAc TYPE B	13,554.00	SF	2.00	27,108

Williamson County - North Campus Facility

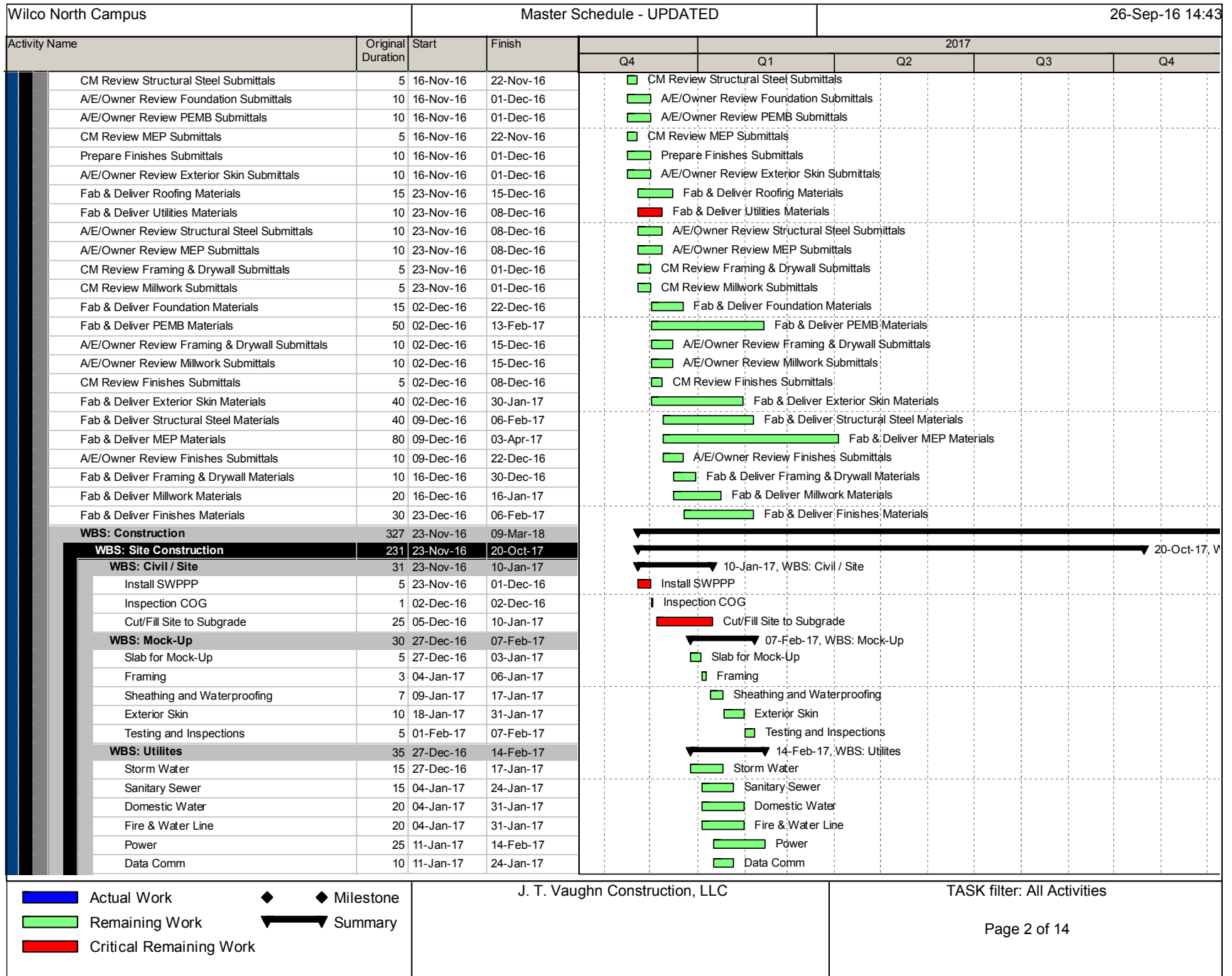
Loc: Georgetown, Texas
Project Size: 0 sqft
Type: GMP

Est Date: 08/29/2016
Estimator: Vaughn Team - TT

Description	Quantity	UM	Tot.UnitCost	TotalCost
ALT 2 - PLACE 2" HMAC TYPE D	13,554.00	SF	1.75	23,720
*** Total Asphalt Paving				50,828
** Total 32.01 - ASPHALT				50,828
32.13 - LANDSCAPE & IRRIGATION				
Irrigation Systems				
PERMANENT AND TEMP IRRIGATION SYSTEM	1.00	LS	15,000.00	15,000
*** Total Irrigation Systems				15,000
Lawns & Grasses				
COLEMAN TURF MIX	858.00	CY	10.20	8,752
HYDROMULCH SAHARA GRASS	7,803.00	SF	1.20	9,364
TILL AND ROCK RAKE TURF AREAS	1.00	LS	6,800.00	6,800
*** Total Lawns & Grasses				24,915
** Total 32.13 - LANDSCAPE & IRRIGATION				39,915
33.01 - SITE UTILITIES				
Water Piping				
PVC SCH 40 PIPE - 1.25"	20.00	LF	5.66	113
PVC SCH 40 PIPE - 2"	20.00	LF	11.71	234
INSTALL WATER LINE PIPE	40.00	LF	71.16	2,847
BANK SAND	25.00	TCY	19.13	478
*** Total Water Piping				3,672
Water Distribution Equipment				
GATE VALVE & BOX - 2"	2.00	EA	478.16	956
*** Total Water Distribution Equipment				956
Sanitary Piping				
PVC SDR 26 - 4"	32.00	LF	6.83	219
INSTALL SANTIARY PIPE	32.00	LF	88.95	2,847
CEMENT STABILIZED BACKFILL	40.00	TONS	34.15	1,366
CLEANOUT	1.00	EA	546.47	546
*** Total Sanitary Piping				4,978
Miscellaneous Utilities				
HAUL SANITARY SPOILS	30.00	TCY	8.20	246
HAUL WATER SPOILS	25.00	TCY	8.20	205
*** Total Miscellaneous Utilities				451
** Total 33.01 - SITE UTILITIES				10,057
* Total ALT#2 - MAINTENANCE BUILDING EXPANSI	600.00	SF	1,231.91	739,148
Total Gross Cost				18,195,395

Tab #7

Wilco North Campus			Master Schedule - UPDATED			26-Sep-16 14:43		
Activity Name	Original Duration	Start	Finish	2017				
				Q4	Q1	Q2	Q3	Q4
Project: Wilco North Campus								
WBS: Milestones								
NTP	0	18-Oct-16		◆ NTP				
Start EMS Training Center Excavation of Building Pad	0	19-Dec-16		◆ Start EMS Training Center Excavation of Building Pad				
Start Wireless Comm. Building Excavation of Building Pad	0	06-Jan-17		◆ Start Wireless Comm. Building Excavation of Building Pad				
Start Vehical Inspection Building Excavation of Building Pad	0	21-Feb-17		◆ Start Vehical Inspection Building Excavation of Building Pad				
Vehical Inspection Building Substantial Completion	0		25-Sep-17	◆ Vehical Inspection Building Substantial Completion				
Wireless Comm. Building Substantial Completion	0		31-Oct-17	◆ Wireless Comm. Building Substantial Completion				
EMS Training Center Substantial Completion	0		02-Mar-18					
WBS: Preconstruction								
WBS: Design Development Documents								
90% CD Documents Received (6.15.16)	1	15-Jun-16 A	15-Jun-16 A	Development Documents				
100% CD Documents Received (7.15.16)	11	16-Jun-16 A	15-Jul-16 A	100% CD Documents Received (7.15.16)				
WBS: Construction Documents				01-Nov-16, WBS: Construction Documents				
Prepare Bid Documents	5	01-Jul-16 A	01-Aug-16 A	Prepare Bid Documents				
Advertise Bid Packages for Bidding Subs	13	02-Aug-16 A	18-Aug-16 A	Advertise Bid Packages for Bidding Subs				
City of Georgetown Permit Review	20	02-Aug-16 A	27-Sep-16	City of Georgetown Permit Review				
Prepare and Submit GMP	15	02-Aug-16 A	27-Sep-16	***Prepare and Submit GMP***				
Received Bids From Subcontractors	1	23-Aug-16 A	23-Aug-16 A	Received Bids From Subcontractors				
Prepare Sub Rec Books	10	27-Sep-16 A	03-Oct-16	Prepare Sub Rec Books				
Wilco Review GMP	10	27-Sep-16*	10-Oct-16	Wilco Review GMP				
Wilco Approval of Sub Contractors	5	11-Oct-16	17-Oct-16	Wilco Approval of Sub Contractors				
Prepare Contracts with Subcontractors	10	18-Oct-16	31-Oct-16	Prepare Contracts with Subcontractors				
LOI to Subs	1	18-Oct-16	18-Oct-16	LOI to Subs				
Issue Subcontracts to Subcontractors	1	01-Nov-16	01-Nov-16	Issue Subcontracts to Subcontractors				
WBS: Material Procurement								
Prepare Roofing Submittals	10	19-Oct-16	01-Nov-16	Prepare Roofing Submittals				
Prepare Utilities Submittals	10	19-Oct-16	01-Nov-16	Prepare Utilities Submittals				
Prepare Structural Steel Submittals	20	19-Oct-16	15-Nov-16	Prepare Structural Steel Submittals				
Prepare Foundation Submittals	15	19-Oct-16	08-Nov-16	Prepare Foundation Submittals				
Prepare PEMB Submittals	15	19-Oct-16	08-Nov-16	Prepare PEMB Submittals				
Prepare MEP Submittals	20	19-Oct-16	15-Nov-16	Prepare MEP Submittals				
Prepare Exterior Skin Submittals	15	19-Oct-16	08-Nov-16	Prepare Exterior Skin Submittals				
CM Review Roofing Submittals	5	02-Nov-16	08-Nov-16	CM Review Roofing Submittals				
CM Review Utilities Submittals	5	02-Nov-16	08-Nov-16	CM Review Utilities Submittals				
A/E/Owner Review Roofing Submittals	10	09-Nov-16	22-Nov-16	A/E/Owner Review Roofing Submittals				
A/E/Owner Review Utilities Submittals	10	09-Nov-16	22-Nov-16	A/E/Owner Review Utilities Submittals				
CM Review Foundation Submittals	5	09-Nov-16	15-Nov-16	CM Review Foundation Submittals				
CM Review PEMB Submittals	5	09-Nov-16	15-Nov-16	CM Review PEMB Submittals				
Prepare Framing & Drywall Submittals	10	09-Nov-16	22-Nov-16	Prepare Framing & Drywall Submittals				
Prepare Millwork Submittals	10	09-Nov-16	22-Nov-16	Prepare Millwork Submittals				
CM Review Exterior Skin Submittals	5	09-Nov-16	15-Nov-16	CM Review Exterior Skin Submittals				
J. T. Vaughn Construction, LLC				TASK filter: All Activities				
Page 1 of 14								

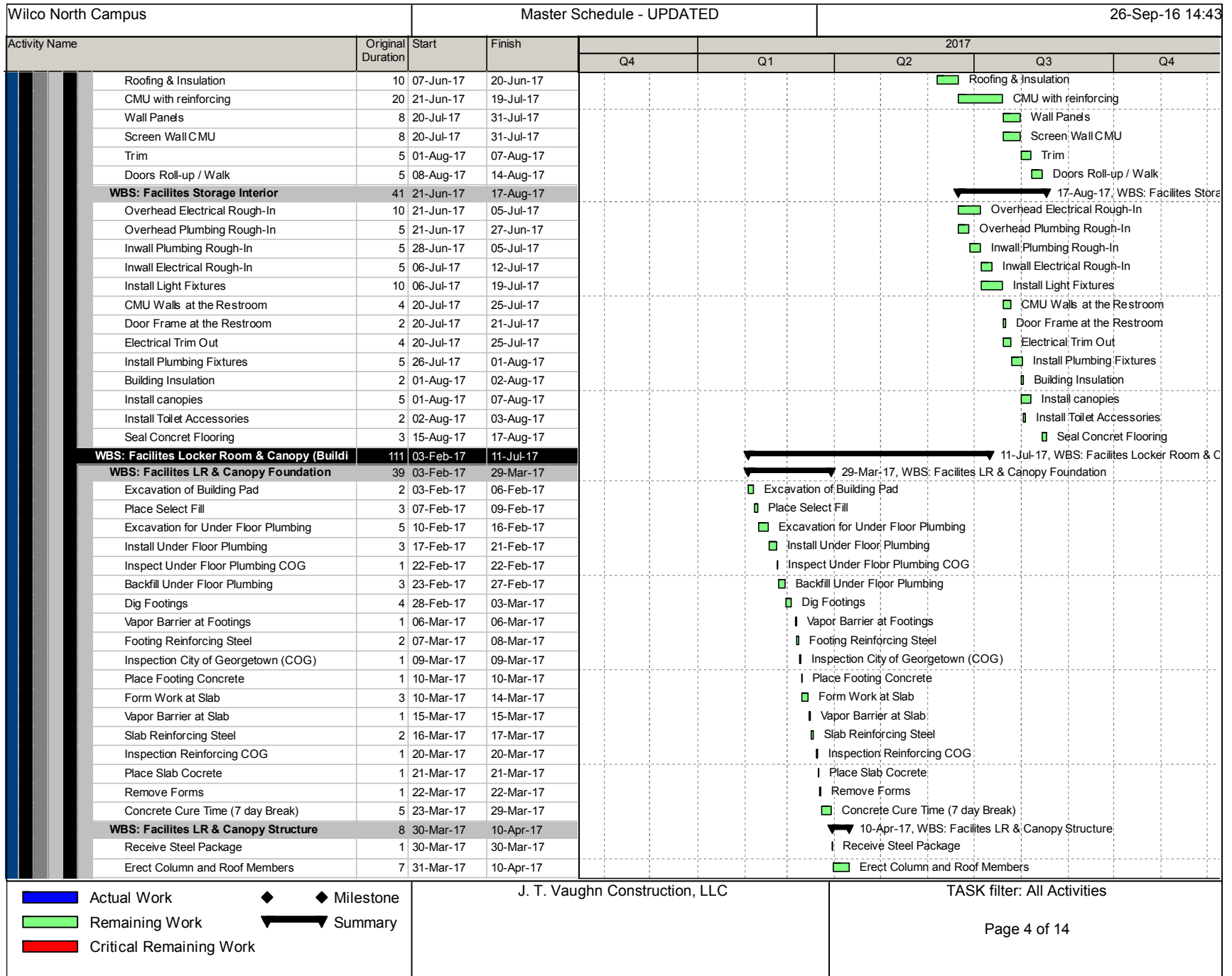


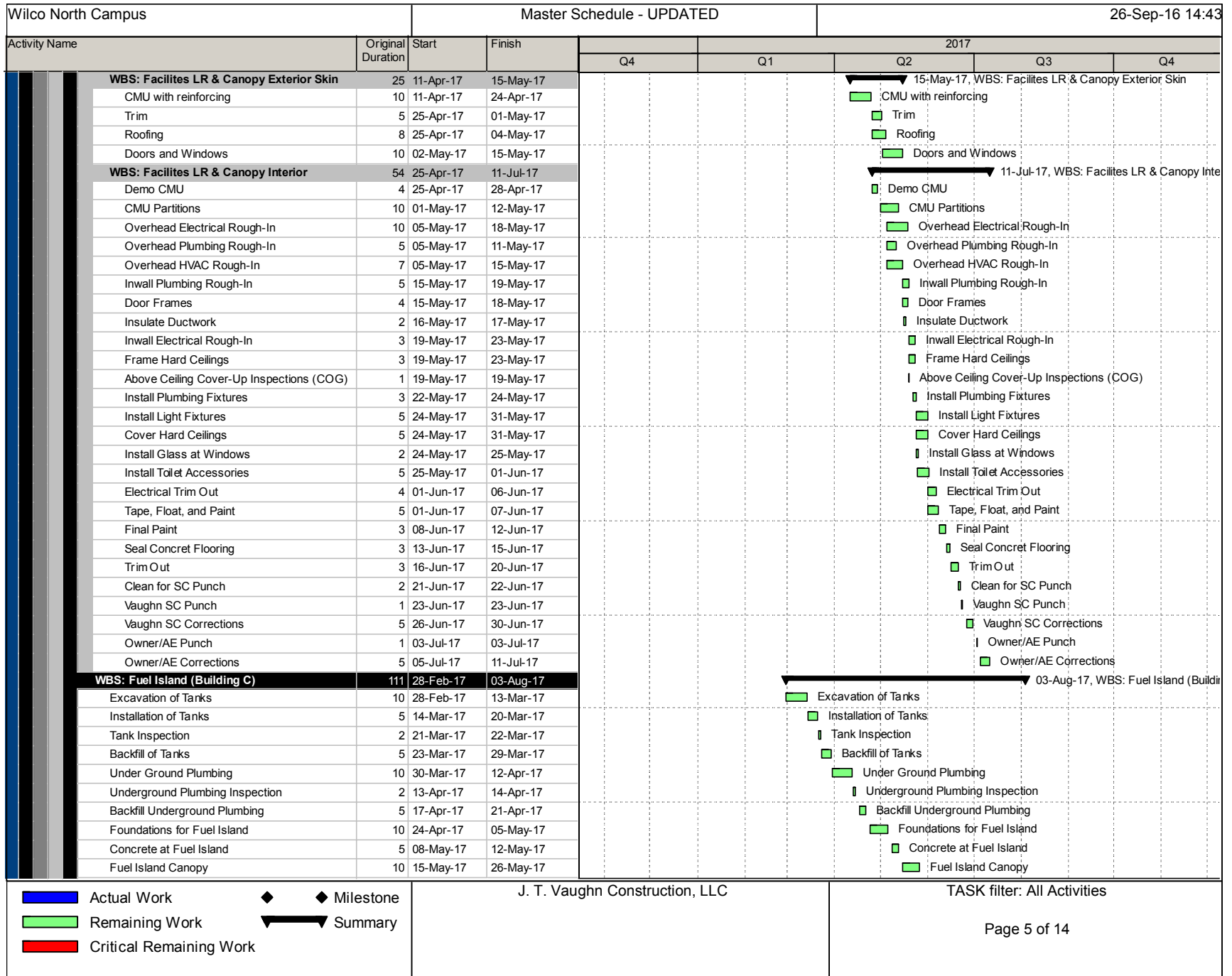
Activity Name	Original Duration	Start	Finish	2017				
				Q4	Q1	Q2	Q3	Q4
WBS: Site Paving	154	11-Jan-17	16-Aug-17		16-Aug-17, WBS: Site Paving			
Prep Base for Paving	25	11-Jan-17	14-Feb-17		Prep Base for Paving			
Curbs	8	15-Feb-17	24-Feb-17		Curbs			
Light Pole Bases	5	15-Feb-17	21-Feb-17		Light Pole Bases			
Fencing and Gates	25	22-Feb-17	28-Mar-17		Fencing and Gates			
Concrete Paving	15	27-Feb-17	17-Mar-17		Concrete Paving			
Dumpster Pads	8	20-Mar-17	29-Mar-17		Dumpster Pads			
Side Walks	15	20-Mar-17	07-Apr-17		Side Walks			
Asphalt	10	20-Mar-17	31-Mar-17		Asphalt			
Striping and Signage	5	29-Mar-17	04-Apr-17		Striping and Signage			
Bollards	10	10-Apr-17	21-Apr-17		Bollards			
Flag Pole	5	24-Apr-17	28-Apr-17		Flag Pole			
Mechanical Yard Concrete	12	01-Aug-17	16-Aug-17				Mechanical Yard Concrete	
WBS: Irrigation & Landscaping	58	01-Aug-17	20-Oct-17				20-Oct-17, WBS: Irrigation & Landscaping	
Irrigation	15	01-Aug-17	21-Aug-17				Irrigation	
Landscaping	25	22-Aug-17	26-Sep-17				Landscaping	
Temporary Irrigation	18	27-Sep-17	20-Oct-17				Temporary Irrigation	
WBS: Facilities Storage (Building A)	146	24-Jan-17	17-Aug-17		17-Aug-17, WBS: Facilities Storage (Building A)			
WBS: Facilities Storage Foundation	76	24-Jan-17	09-May-17		09-May-17, WBS: Facilities Storage Foundation			
Excavation of Building Pad	8	24-Jan-17	02-Feb-17		Excavation of Building Pad			
Place Select Fill	8	03-Feb-17	14-Feb-17		Place Select Fill			
Excavation for Under Floor Plumbing	8	15-Feb-17	24-Feb-17		Excavation for Under Floor Plumbing			
Install Under Floor Plumbing	8	27-Feb-17	08-Mar-17		Install Under Floor Plumbing			
Inspect Under Floor Plumbing COG	1	09-Mar-17	09-Mar-17		Inspect Under Floor Plumbing COG			
Backfill Under Floor Plumbing	5	10-Mar-17	16-Mar-17		Backfill Under Floor Plumbing			
Dig Grade Beams	8	17-Mar-17	28-Mar-17		Dig Grade Beams			
Vapor Barrier at Grade Beams	1	29-Mar-17	29-Mar-17		Vapor Barrier at Grade Beams			
Grade Beam Reinforcing Steel	5	30-Mar-17	05-Apr-17		Grade Beam Reinforcing Steel			
Inspection City of Georgetown (COG)	1	06-Apr-17	06-Apr-17		Inspection City of Georgetown (COG)			
Place Grade Beam Concrete	1	07-Apr-17	07-Apr-17		Place Grade Beam Concrete			
Form Work at Slab	5	07-Apr-17	13-Apr-17		Form Work at Slab			
Vapor Barrier at Slab	1	14-Apr-17	14-Apr-17		Vapor Barrier at Slab			
Slab Reinforcing Steel	4	17-Apr-17	20-Apr-17		Slab Reinforcing Steel			
Install Embeds/Anchor Bolts	2	21-Apr-17	24-Apr-17		Install Embeds/Anchor Bolts			
Inspection COG	1	25-Apr-17	25-Apr-17		Inspection COG			
Place Slab Concrete	1	26-Apr-17	26-Apr-17		Place Slab Concrete			
Remove Forms	2	27-Apr-17	28-Apr-17		Remove Forms			
Concrete Cure Time (7 day Break)	7	01-May-17	09-May-17		Concrete Cure Time (7 day Break)			
WBS: Facilities Storage Structure	19	10-May-17	06-Jun-17		06-Jun-17, WBS: Facilities Storage Structure			
Receive Steel Package	1	10-May-17	10-May-17		Receive Steel Package			
Erect Column and Roof Members	10	11-May-17	24-May-17		Erect Column and Roof Members			
Install Framing / Purlins	8	25-May-17	06-Jun-17		Install Framing / Purlins			
WBS: Facilities Storage Exterior Skin	48	07-Jun-17	14-Aug-17		14-Aug-17, WBS: Facilities Storage Exterior Skin			

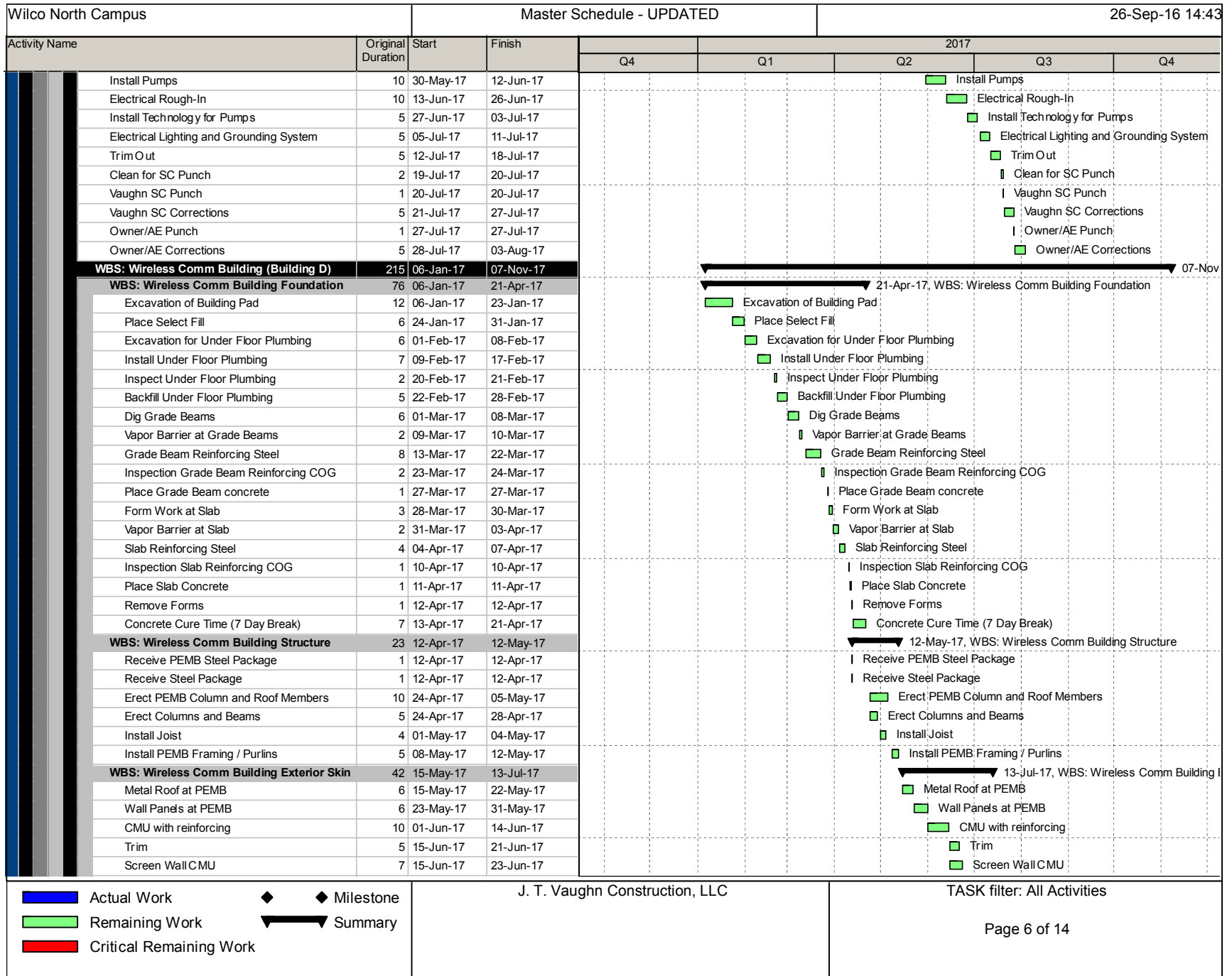
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■ Remaining Work ─ Summary
■ Critical Remaining Work

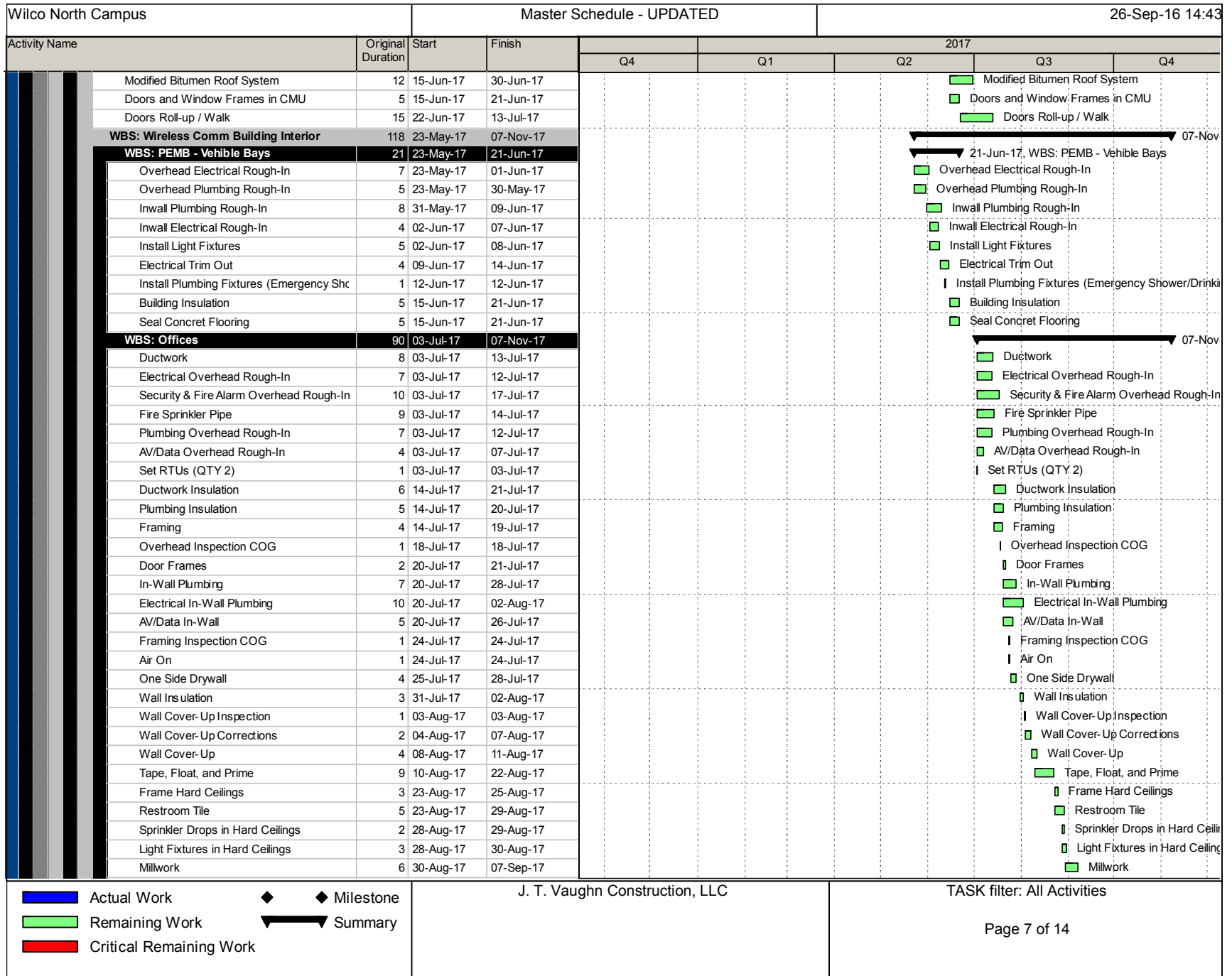
J. T. Vaughn Construction, LLC

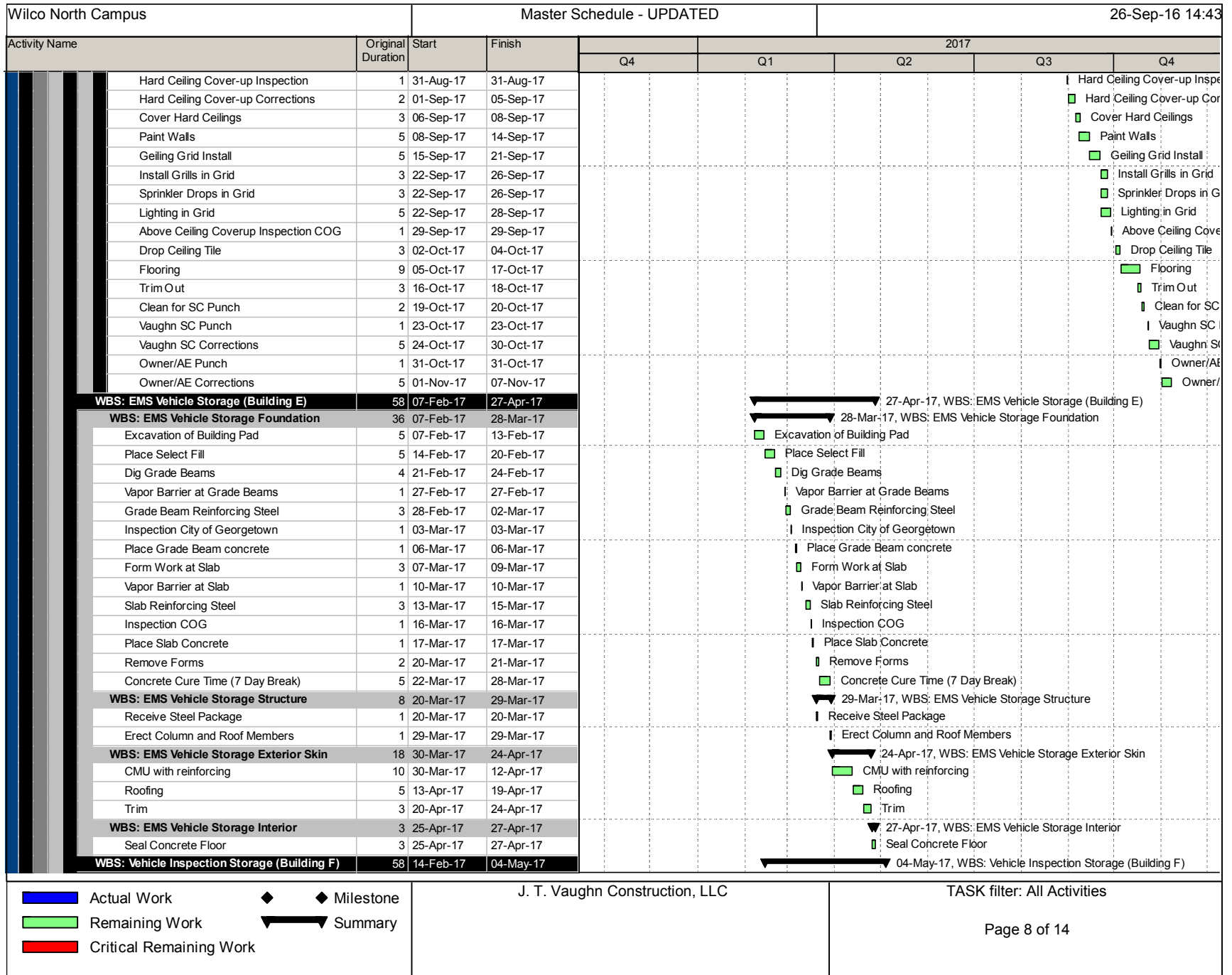
TASK filter: All Activities











Activity Name	Original Duration	Start	Finish	2017				
				Q4	Q1	Q2	Q3	Q4
WBS: Vehicle Inspection Storage Foundation	36	14-Feb-17	04-Apr-17			04-Apr-17, WBS: Vehicle Inspection Storage Foundation		
Excavation of Building Pad	5	14-Feb-17	20-Feb-17			Excavation of Building Pad		
Place Select Fill	5	21-Feb-17	27-Feb-17			Place Select Fill		
Dig Grade Beams	4	28-Feb-17	03-Mar-17			Dig Grade Beams		
Vapor Barrier at Grade Beams	1	06-Mar-17	06-Mar-17			Vapor Barrier at Grade Beams		
Grade Beam Reinforcing Steel	3	07-Mar-17	09-Mar-17			Grade Beam Reinforcing Steel		
Inspection City of Georgetown	1	10-Mar-17	10-Mar-17			Inspection City of Georgetown		
Place Grade Beam concrete	1	13-Mar-17	13-Mar-17			Place Grade Beam concrete		
Form Work at Slab	3	14-Mar-17	16-Mar-17			Form Work at Slab		
Vapor Barrier at Slab	1	17-Mar-17	17-Mar-17			Vapor Barrier at Slab		
Slab Reinforcing Steel	3	20-Mar-17	22-Mar-17			Slab Reinforcing Steel		
Inspection COG	1	23-Mar-17	23-Mar-17			Inspection COG		
Place Slab Concrete	1	24-Mar-17	24-Mar-17			Place Slab Concrete		
Remove Forms	2	27-Mar-17	28-Mar-17			Remove Forms		
Concrete Cure Time (7 Day Break)	5	29-Mar-17	04-Apr-17			Concrete Cure Time (7 Day Break)		
WBS: Vehicle Inspection Storage Structure	8	27-Mar-17	05-Apr-17			05-Apr-17, WBS: Vehicle Inspection Storage Structure		
Receive Steel Package	1	27-Mar-17	27-Mar-17			Receive Steel Package		
Erect Column and Roof Members	1	05-Apr-17	05-Apr-17			Erect Column and Roof Members		
WBS: Vehicle Inspection Storage Exterior Sk	18	06-Apr-17	01-May-17			01-May-17, WBS: Vehicle Inspection Storage Exterior Skin		
CMU with reinforcing	10	06-Apr-17	19-Apr-17			CMU with reinforcing		
Roofing	5	20-Apr-17	26-Apr-17			Roofing		
Trim	3	27-Apr-17	01-May-17			Trim		
WBS: Vehicle Inspection Storage Interior	3	02-May-17	04-May-17			04-May-17, WBS: Vehicle Inspection Storage Interior		
Seal Concrete Floor	3	02-May-17	04-May-17			Seal Concrete Floor		
WBS: Vehicle Inspection Building (Building G)	157	21-Feb-17	02-Oct-17					
WBS: Vehicle Inspection Building Foundation	59	21-Feb-17	12-May-17			12-May-17, WBS: Vehicle Inspection Building Foundation		
Excavation of Building Pad	6	21-Feb-17	28-Feb-17			Excavation of Building Pad		
Place Select Fill	5	01-Mar-17	07-Mar-17			Place Select Fill		
Excavation for Under Floor Plumbing	4	08-Mar-17	13-Mar-17			Excavation for Under Floor Plumbing		
Install Under Floor Plumbing	6	14-Mar-17	21-Mar-17			Install Under Floor Plumbing		
Inspect Under Floor Plumbing	1	22-Mar-17	22-Mar-17			Inspect Under Floor Plumbing		
Backfill Under Floor Plumbing	5	23-Mar-17	29-Mar-17			Backfill Under Floor Plumbing		
Dig Grade Beams	5	30-Mar-17	05-Apr-17			Dig Grade Beams		
Vapor Barrier at Grade Beams	2	06-Apr-17	07-Apr-17			Vapor Barrier at Grade Beams		
Grade Beam Reinforcing Steel	7	10-Apr-17	18-Apr-17			Grade Beam Reinforcing Steel		
Inspection City of Georgetown	1	19-Apr-17	19-Apr-17			Inspection City of Georgetown		
Place Grade Beam concrete	1	20-Apr-17	20-Apr-17			Place Grade Beam concrete		
Form Work at Slab	3	21-Apr-17	25-Apr-17			Form Work at Slab		
Vapor Barrier at Slab	2	26-Apr-17	27-Apr-17			Vapor Barrier at Slab		
Slab Reinforcing Steel	3	28-Apr-17	02-May-17			Slab Reinforcing Steel		
Inspection COG	1	03-May-17	03-May-17			Inspection COG		
Place Slab Concrete	1	04-May-17	04-May-17			Place Slab Concrete		
Remove Forms	1	05-May-17	05-May-17			Remove Forms		

 Actual Work
  Milestone
  Summary
  Remaining Work
  Critical Remaining Work

J. T. Vaughn Construction, LLC

TASK filter: All Activities

