Oregon TECH

Capital Projects Update

THOM DARRAH | Interim Director of Facilities | Oregon Tech

Presentation Outline

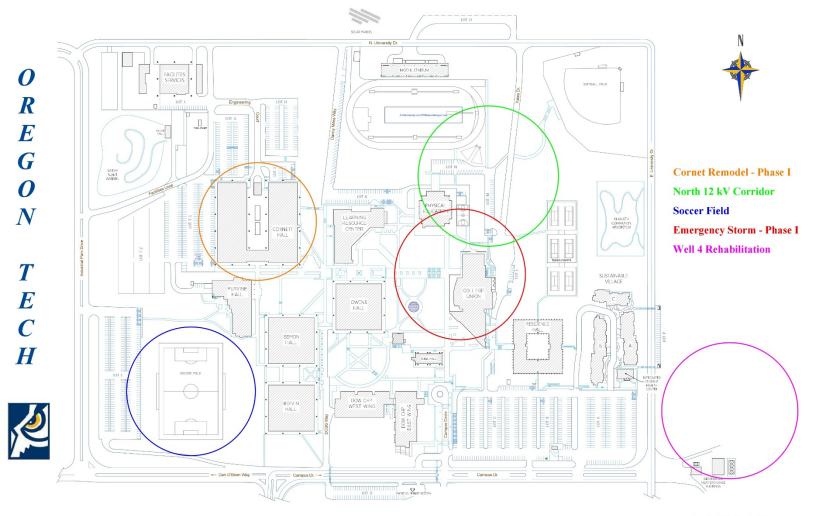


- 2017 Capital Projects
 - Soccer Field
 - Well 4 Rehabilitation
 - North 12kV Upgrade
 - Emergency Storm Phase 1
 - Cornett Renovation Phase 1

- Upcoming Projects
 - Emergency Storm Phase 2
 - Cornett Renovation Phase 2
 - Athletics & Student Rec Center
 - CEET Project
- Capital Repair & Renewal
 - Completed Projects
 - Upcoming Projects

Oregon Tech – 2017 Projects

Cornett - Phase 1 / North 12kV Upgrade / New Soccer Field / Storm - Phase 1 / Well 4 Rehabilitation





Prepared by: CM Invin - No



						Soccer Field								
	Project Sta	rt: 5.10.1	16					Project	Со	mpletion: 6.0	3.1	.7		
Project		Progr	ess High	lights		Cost Breakdown	0	Orig. Budget		ev. Budget	Cost To Date		%	Balance
UPE 758 / 759 / 760 * Final Completion: 6.02.2017														
Bond Type: XI-F														
\$2,019,277						Design (14%):	\$	285,355	\$	288,105	\$	288,105	100%	\$
Design: D.A. Hogan						Construction (80%):	\$	1,535,500	\$	1,599,421	\$	1,599,421	100%	\$ -
Build: Hellas Const.			Other (6%):	\$	198,422	\$	131,751	\$	131,751	100%	\$ -			
Fence: Superior	RFP	Design	Bid	Const.	Complete	Project Totals:	\$	2,019,277	\$	2,019,277	\$	2,019,277	100%	\$.
	Budget Breakdown									Percent 0%_	Cor	mplete (%)		
\$288,105 Design	\$1,59		Other/Co	1 31,751				Cost To Date	•			100%		











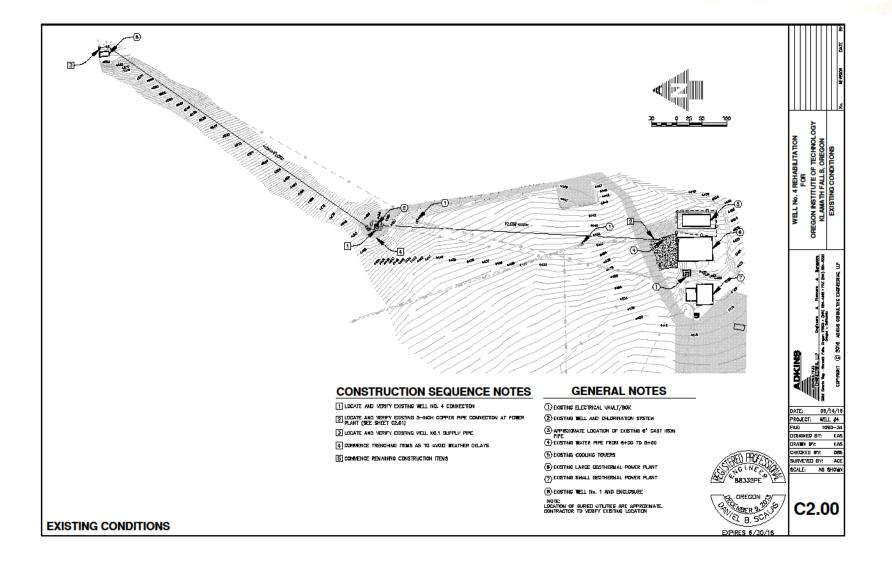








					Well 4 Rehabi	litation									
P	roject Start: 6.19	.17						Project	Con	npletion: 9.0	1.17	7			
Project	Cost Breakdo	Cost Breakdown			Re	v. Budget	Cost To Date		%	Balance					
UPE 763	* Substantial Co	npletion: 9	9.14.201	7											
Bond Type: XI-Q															
\$380,000					Desig	gn (16%):	\$	83,700	\$	83,700	\$	83,700	100%	\$	
Design: Adkins Eng.					Construction	\$	296,300	\$	386,740	\$	386,740	100%	\$		
Build: Bob's Excav.				Other (9%):			-	\$	5,000	\$	5,000	100%	\$		
	RFP Design	Bid	Const.	Complete	Projec	t Totals:	\$	380,000	\$	475,440	\$	475,440	100%	\$	
В	udget Breakdov	/n								Percent 0%_		nplete (%)			
\$83,700	\$386,	740		\$5,000				Cost To Date Balance	e ()						
■ Design	□ Construction	Other/C	ont.									100%			



















					North 12kV U	pgrade								117-411111
	Project Start: 6.19	.17						Project	Con	pletion: 9.	01.1	7		
Project Progress Highlights				Cost Breakdo	own	0	rig. Budget	Rev. Budget		Cost To Date		%	Balance	
UPE 769 / FSCORR * Substantial Completion: 2.02.2018														
Bond Type: XI-Q	Bond Type: XI-Q ** Final Completion: TBD													
\$763,125	*** Final comple	tion to be o	determine	ed based	Des	ign (6%):	\$	50,365	\$	54,400	\$	46,665	86%	\$ 7,735
Design: Fluent Engin.	on delivery of ne	w transforn	ners.		Construction (66%):			503,650	\$	718,060	\$	466,740	65%	\$ 251,320
Build: Bob's Excav.	uild: Bob's Excav.		Oth	er (28%):	\$	209,110	\$	5,000	\$	3,660	73%	\$ 1,340		
	RFP Design	Bid	Const. C	Complete	Proje	ct Totals:	\$	763,125	\$	777,460	\$	517,065	67%	\$ 260,395
В	udget Breakdov	/n								Percent	Con	nplete (%)		
									33	8%				
\$54,400	\$718,060	\$5,	,000					Cost To Date						
■ Design	■ Construction	Other/Co	nt.										_67%	

ELECTRICAL KEYED NOTES: 1) PROVIDE REMOVABLE BOLLARD, APPROX, LOCATION SHOWN. PROVIDE NEW TRANSFORMER TROS. (3) PROVIDE NEW TRANSFORMER TROP. A PROVIDE NEW TRANSFORMER TR11.

(7) PENETRATE AND ROUTE THROUGH EXISTING TUNNEL 8 PROVIDE PULL-BOXES AS REQUIRED INOT SHOWING. KEEP CU TUNNEL ENTRY/DOOR CLEAR AND USABLE. (9) CONNECT TO EXISTING CU 480/277V 1200 AMP MDP.

EXISTING SPARE RACEWAY/CONDUCTORS TO RESIDENCE HALL TO REMAIN.

11) PROVIDE (2) 4" SPARE CONCRETE INCASED RACEWAYS WITH 1" SPARE CONDUCTOR NOT INCASED FOR DATA.

(13) PROVIDE TRANSFORMER PAD. COORDINATE WITH EXISTING RETAINING WALL (AT TR-9) FOR NEW PAD LOCATION. (14) PROVIDE NEW EQUIPMENT AT LOCATION WHERE EXISTING WAS REPLACED SUCH THAT EXISTING SECONDARY CONDUCTOR LENGTHS ARE SUFFICIENT TO TERMINATE ON NEW EQUIPMENT.

(18) PROVIDE NEW 480V RACEWAYS AND CONDUCTORS.

(19) SEE CU SITE PLAN FOR ADDITIONAL REQUIREMENTS IN THIS AREA.

(21) PROVIDE SEPARATE SUPPORT WITH CONCRETE BASE FOR EDSTING EQUIPMENT THAT SERVANS. INCLUDING CONTACTOR, THESE DISCONNECTS, AND AN ENCLOSED BREAKER, RECONNECT EXISTING EQUIPMENT TO NEW TRANSFORMER.

(22) REPLACE EXISTING 4-WAY FIBERGLASS SECTIONALIZING CABINET WITH NEW METAL 4-WAY 600AMP SECTIONALIZING CABINET. PROVIDE DEADBREAK JUNCTIONS, EATON SEC 3 66 3 3 F 6354 M G 6 - OR LARGER DIMENSIONS AT

-EXISTING SOLAR FIELD CONNECTIONS (EXISTING RE-CONNECTED TO CABINET, 3-CONDUCTORS WITH COMMON GROUND BAR CONNECTIONS.

-NEW FEEDER REPLACEMENT WITH DEADBREAK JUNCTION CONNECTIONS AND NEW CONDUCTORS. 3-CONDUCTORS WITH GROUND CONNECTIONS.

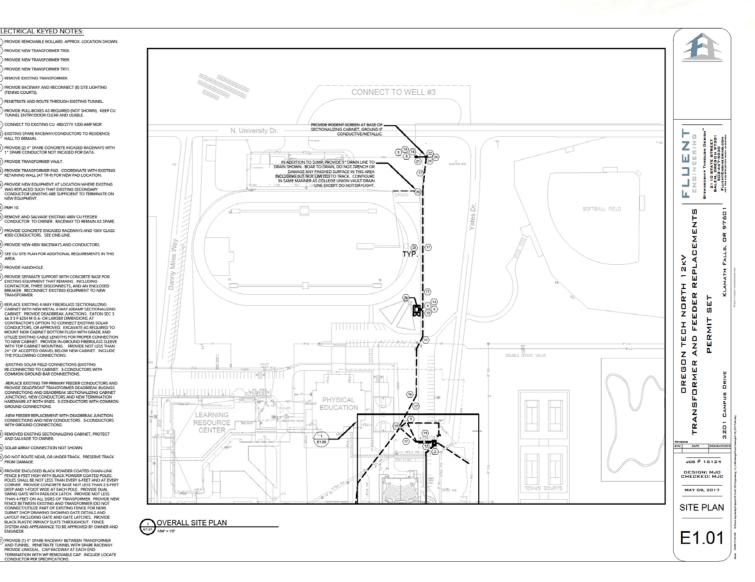
(22) REMOVED EXISTING SECTIONALIZING CABINET, PROTECT AND SALVAGE TO OWNER.

(22) PROVIDE (1) 4" SPARE RACEWAY BETWEEN TRANSFORMER AND TURNEL, PRINETRATE TURNEL WITH SPARE RACEWAY. PROVIDE LINICIAL PACIFICATION TERMINATION WITH MP REMOVABLE CAP, INCLUDE LOCATE COMDUCTOR RES DESIGNATIONS.

(24) SOLAR ARRAY CONNECTION NOT SHOWN. (25) DO NOT ROUTE NEAR, OR UNDER TRACK. PRESERVE TRACK FROM DAMAGE. (35) PROVIDE ENCLOSED BLACK POWDER COATED CHAIN-LINK FENCE FARET HIGH WITH BLACK POWDER COATED POLES. POLES SHALL BE NOT LESS THAN EVERY 6-FEET AND AT EVERY CORNER. PROVIDE CONCRETE BASE NOT LESS THAN 25-FEET DEEP AND 1-FOOT WIDE AT EACH TOIL. PROVIDE DUAL SAMING GATE WITH PRADOCK LATCH. PROVIDE DUAL.

12) PROVIDE TRANSFORMER VAULT.

(20) PROVIDE HANDHOLE.

















Parking Upgrade – Lot M & N (PE)

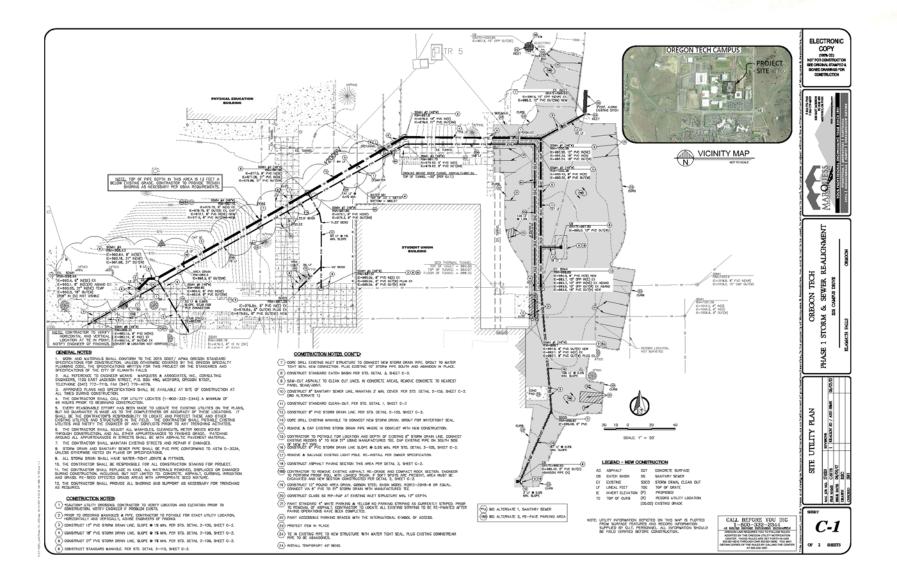








					I	Emerg. Storm -	Phase :	1							7,00	1 4 2 . 1
	Project Sta	art: 6.19.	17						Project	Con	npletion: 9.0	1.17	7			
Project		Progr	ess High	lights		Cost Breakd	own	0	rig. Budget	Rev. Budget		Cost To Date		%	Balar	nce
UPE 769 / FSSTDR * Final Completion: 9.22.2017																
Bond Type: XI-Q																
\$1,482,905					Des	\$	118,836	\$	29,100	\$	29,100	100%	\$	-		
Design: Marquess						Construction	on (71%):	\$	1,188,357	\$	641,405	\$	641,405	100%	\$	-
Build: Bob's Excav.						Other (25%):		\$	175,712	\$	20,000	\$	20,000	100%	\$	-
	RFP	Design	Bid	Const.	Complete	Proje	ct Totals:	\$	1,482,905	\$	690,505	\$	690,505	100%	\$	-
	Budget Br	eakdow	n								Percent 0	Com	plete (%)			
\$29,100 Design	Constru	\$641,4	105 \$20 Other/Co	0,000					□ Cost To Date ■ Balance				100%			





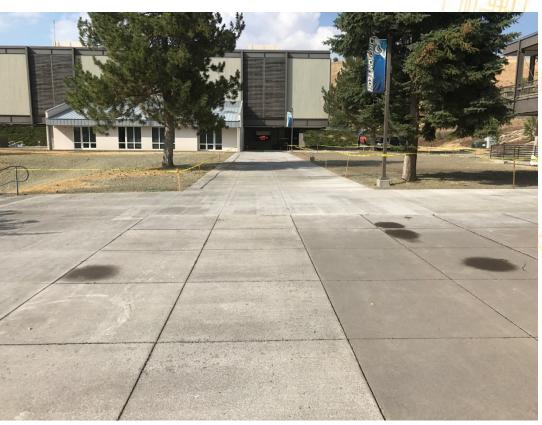












Parking Upgrade – Lot L (CU)







Cornett Hall – Phase I



						Cornett Hall -	Phase 1									
F	roject Sta	ırt: 6.19.1	.7						Project	Со	mpletion: 8.3	31.18	8			
Project	Project Progress Highlights			Cost Breakdown			rig. Budget	Rev. Budget		Cost To Date		%		Balance		
UPE 757 * NTP: 9.18.2017																
Bond Type: XI-Q / XI-G																
\$11,705,000						Des	sign (9%):	\$	1,042,020	\$	988,360	\$	585,115	59%	\$	403,245
Design: BBT Arch.						Constructi	on (75%):	\$	9,000,000	\$	9,284,495	\$	81,500	1%	\$	9,202,995
CM/GC: Adroit Const.						Other (16%):		\$	1,662,980	\$	1,432,145	\$	187,910	13%	\$	1,244,235
	RFP	Design	Bid	Const.	Complete	Proje	ct Totals:	\$	11,705,000	\$	11,705,000	\$	854,525	7%	\$:	10,850,475
В	udget Bre	eakdowi	1								Percent	Con	nplete (%)			
													7%			
\$988,360	\$9,284,4	495	\$1,43	2,145					Cost To Date							
								п	Balance							
											93%					
■ Design	■ Constru	ction =	Other/Co	ont.							53/0					

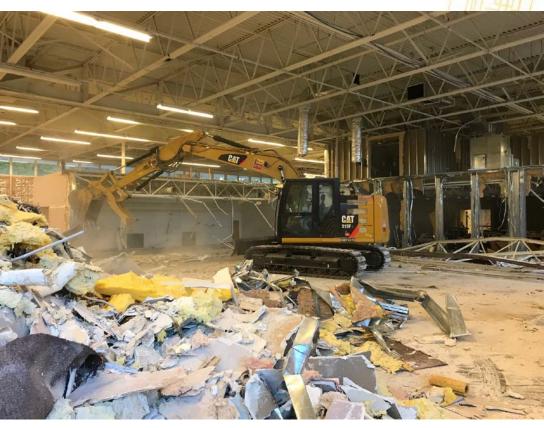
Cornett Hall – Phase 1a East Wing HAZMAT STORAGE CAMPUS 322 312 310 (A3.03 40" - 0" STRUCTURES CONCRETE BSAE / FSAE 120 126 134 160 CE GRAD 152 DESIGN RESOURCE GEOTECH CLEAN LAB ELEC. POWER SYS. DESIGN RESOURCE STORAGE < TRAFFIC LAB 144 140 A3.01 70' - 0"

Cornett Hall – Phase 1b West Wing WELDING LAB 240 DESIGN CENTER PROTOTYPE & LASER LAB TRANSFER / POWER SYSTEMS LAE COMPOSITES MATERIALS / HVAC METALOGRAPHY 228 222 232 230 226 234 COMPUTER 205 WET LAB 235 TOOL ROOM 242 CORRIDOR COMPOSITES PROJECTS STORAGE STORAGE MACHINING 216 15' - 0" ORRIDO 202 212 STORAGE BSAE / FSAE 215 A3.03 STORAGE SECURITY STORAGE DYNAMO-309 318 TRANSFORMER STORAGE METER STORAGE HAZMAT 314 324 CAMPUS 322 STORAGE 312

Cornett Hall – Phase 1a (East Wing)







Cornett Hall – Phase 1a (East Wing)

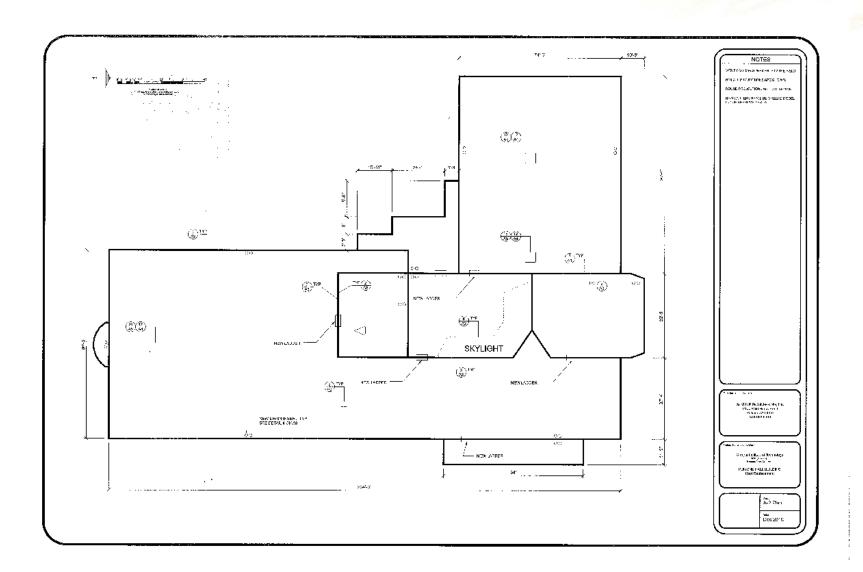








				Purvine Reroof								
	Project Start: 7.05.17					Project	Cor	npletion: 9.0	01.1	7		
Project	Progres	s Highlights		Cost Breakdown		Orig. Budget R		Rev. Budget		et Cost To Date		Balance
UPE 763 * Final Completion: 9.08.2017												
Bond Type: XI-Q												
\$323,000				Design (8%):		37,000	\$	25,500	\$	25,500	100%	\$ -
Design: Skyline Eng.				Construction (91%): \$	324,000	\$	276,495	\$	276,495	100%	\$ -
Build: Henris Roofing				Other (1%): \$	30,000	\$	310	\$	310	100%	\$ -
	RFP Design	Bid Const.	Complete	Project Total	s: \$	391,000	\$	302,305	\$	302,305	100%	\$ -
	Budget Breakdown							Percent	Con	nplete (%) 0%		
\$25,500	\$276,495		\$310			■ Cost To Date	2					
■ Design	Construction O	ther/Cont.				= balance		100%_	>			











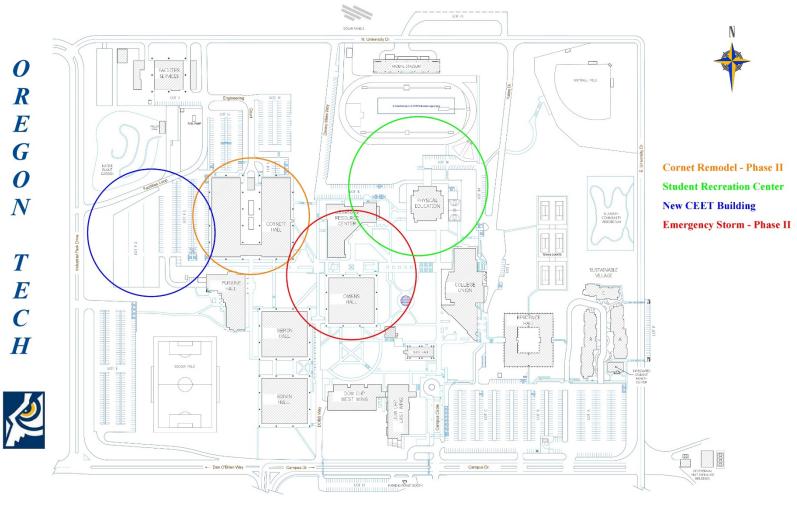






Upcoming Projects

Cornett - Phase 2 / Student Rec Center / New CEET Building / Emergency Storm - Phase 2





Upcoming Projects



• Emergency Storm - Phase 2

Design: Underway

• Construction: June 2018 – September 2018

Budget: \$1,376,985

Cornett – Phase 2

Design: Underway

• Construction: June 2019 – September 2020

• Budget \$7,000,000

Student Rec Center

• Design: Winter 2018

• Construction: 2019 - 2020

• Budget: \$35,000,000

New CEET Building

• Design: Spring 2018

Construction: Fall 2018 – Summer 2019

Budget: \$5,000,000

<u>Upcoming Project - Timelines</u>



<u>Emergency Storm – Phase 2</u>

- Phase 2 Design: Underway (Marquess Engineering)
- 2. Project Scope: New replacement storm system from end of Phase 1 to outflow.
- 3. Construction RFP: February 2018
- 4. Construction: June 2018
- 5. Completion: September 2018

<u>Cornett Renovation – Phase 2</u>

- 1. Phase 2 Design: Underway (BBT Architects)
- Project Scope: Complete renovation of remaining interior areas including an expanded main Lobby with "makers space" along with exterior siding and roof replacement.
- 3. Early Work: June 2018
- 4. Construction: June 2019 September 2020
- 5. Completion: September 2020

<u>Upcoming Project - Timelines</u>



Student Rec Center

- 1. Advisory Committee work to establish project priorities and goals Fall 2017
- 2. RFP for Design Services: December 2017
- 3. Design: January 2018
- 4. Project Scope: Remodel lower level of PE into Student Rec Center / Exterior upgrades including siding and roof.
- 5. Construction RFP: Spring 2018
- 6. Construction Start: Summer 2018 (12 months)

New CEET Building

- Advisory Committee work to establish project priorities and goals – Fall 2017
- 2. RFP for Design Services: January 2018
- 3. Design: Summer 2018
- Project Scope: New two story engineering building west of Cornett.
- 5. CM/GC RFP: Fall 2018
- 6. Construction Start: Spring 2019 (18 months)



Capital Repair & Renewal Projects

Completed CR&R Projects



	Capital Renewal Replacement UPE 763, FY 13/15													
	Capit	al R	enewal Replace	me	nt UPE 763, FY	13/1	.5							
#	Project Description		Est. Cost		Project Cost	B	ond Balance	<u>Status</u>						
	UPE 763					Ş	1,076,642							
1	Bovin Fanwall	Ş	20,000	y,	17,618	Ş	1,059,024	Completed						
2	Chiller VFD	ហុ	10,000	y,	9,854	s,	1,049,170	Completed						
3	North 12 kV Corridor	ų,	7,185	y,	7,185	ഗ	1,041,985	Completed						
4	LRC Air Compressor	ហុ	10,000	y,	8,244	s,	1,033,741	Completed						
5	Facilities Rollup Door (#1)	ų,	15,000	y,	5,352	ഗ	1,028,389	Completed						
6	Cornett Restroom Remodel	ማ	12,500	y,	11,938	Ş	1,016,451	Completed						
7	Storm Repair @ Soccer Field	Ş	60,000	Ş	57,831	Ş	958,620	Completed						
8	Well 1 Rehabilitation	S)	30,000	y,	27,185	S	931,435	Completed						
9	Replace Entry Doors - Bovin	ų,	30,000	y,	33,210	ማ	898,225	Completed						
10	Replace Entry Doors - Snell	ហុ	30,000	y,	26,815	ማ	871,410	Completed						
1.1	Replace Entry Doors - Semon	ų,	32,000	y,	40,715	ማ	830,695	Completed						
12	Well 4 Rehabilitation	ហ	380,000	ហ	475,440	ማ	355,255	Completed						
13	Purvine Roof Replacement	y,	450,000	ហ	302,305	ഗ	52,950	Completed						
14	City Water Service Upgrade	ហ	8,690	y,	8,690	s,	44,260	Completed						
1.5	LRC Gutter Upgrade	s,	7,135	Ş	7,135	Ş	37,125	Completed						
	Boivin FACP Upgrade	Ş	13,350	Ş	13,350	Ş	23,775	Fall 2017						
	Facilities Rollup Door (#2)	Ş	5,285	s,	5,285	Ş	18,490	Fall 2017						
	TBD	Ş	-	Ş	-	Ş	18,490							
	Balance					Ş	18,490							

Upcoming CR&R Projects



	Capit	al Re	enewal Replace	mei	nt UPE 773 , FY	15/1	7	, 3 781194344
#	Project Description	Est. Cost			Project Cost	Во	ond Balance	<u>Status</u>
	UPE 773					\$	2,760,605	
1	Chiller CH-1 and CH-2 Overhaul	\$	125,480	Ş	125,480	\$	2,635,125	Underway
2	LRC/Snell/PE Elev. Upgrades	Ş	265,495	\$	265,495	\$	2,369,630	Underway
3	CU Sidewalk Replacement	\$	5,490	\$	5,490	\$	2,364,140	Underway
4	PE Waterline N Upgrade	\$	23,350	Ş	23,350	\$	2,340,790	Underway
5	Well 1-4 Chlorine Syst. Upgrade	\$	40,000	Ş	35,440	\$	2,305,350	Winter 2017
6	PE Reroof (E&G Portion)	Ş	362,500	Ş	-	\$	1,942,850	Summer 2018
7	PE Exterior Upgrades (E&G Portio	Ş	937,500	S)	1	ဟု	1,005,350	Summer 2018
8	Lot E Sidewalk/Block Wall	\$	45,000	\$	-	\$	960,350	Summer 2018
9	Facilities Reroof	\$	235,000	\$	-	Ş	725,350	Summer 2019
10	Fencing - Lots M & N	\$	37,125	\$	-	\$	688,225	Summer 2018
	Balance					\$	688,225	



Contact Information

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