

## Amendment No. 2 to Energy Services Contract

Customer Contract Title: Energy Services Contract	Customer Contract No. CU1378
Customer Contract Effective Date: November 25, 2013	Amendment Effective Date: November 16, 2020

Customer Name:	Board of Education of Oregon Community Unit School District 220, Ogle County, Illinois
Customer Address:	206 South 10 <sup>th</sup> Street
	Oregon, IL 61061
Contact:	Attention: Dr. Thomas D. Mahoney
Job Location:	Oregon, IL

Customer and ENGIE Services U.S. Inc. hereby agree as follows:

WHEREAS, Customer and Chevron Energy Solutions Company entered into that certain Energy Services Contract dated November 25, 2013 (the "ESC"), as amended by Amendment No. 1 dated January 28, 2014;

WHEREAS, on April 25, 2014, Chevron Energy Solutions Company assigned the ESC to OpTerra Energy Services, Inc. who subsequently changed its name to ENGIE Services U.S. Inc.;

WHEREAS, pursuant to Section 1.4 of the ESC, "[T]his is Phase I of a multi-phase project. During the Contract Term, the Parties hereto may mutually agree to add additional Work and/or Phases to the Scope of Work by a written Change Order, executed by both Parties, complying in all respects with all applicable laws, including 105 ILCS 5/10-20.21 and 720 ILCS 5/33E-9; and such work shall be performed in accordance with the terms and conditions of this Contract, as amended."

NOW, THEREFORE, the Parties wish to add additional Scopes of Work to the ESC as set forth below.

The Contract Amount for this Amendment No. 2 Scope of Work is \$11,600,000.00 (Eleven Million Six Hundred Thousand Dollars and no cents).

The following Attachments shall be amended to include the following:

- 1. Attachment C, Customer Facilities, is amended to add the Customer Facilities set forth in Attachment C Amendment No. 2 Customer Facilities;
- Attachment D, Scope of Work, is amended to add the Scope of Work set forth in Attachment D Amendment No. 2 Scope of Work;
- Attachment E, Project Schedule, is amended to add the Project Schedule set forth in Attachment E Amendment No. 2 Project Schedule;
- 4. Attachment F, Progress Payment Schedule, is amended to add the Payment Schedule set forth in Attachment F Amendment No. 2 Progress Payment Schedule;
- Attachment G, Standards of Occupancy + Control, is amended to add the equipment set forth in Attachment G Amendment No. 2 – Standards of Occupancy + Control;
- Attachment H, Energy Management and Guarantee Services, is replaced with Attachment H Amendment No. 2 Energy Management and Guarantee Services;
- 7. Attachment I, Guaranteed Savings, is amended to add the savings set forth in Attachment I Amendment No. 2 Guaranteed Savings; and
- 8. Attachment K, Financial Proforma Base Contract Scope of Work, is amended to add the proforma set forth in Attachment K Amendment No. 2 Financial Proforma.

## ATTACHMENT C CUSTOMER'S FACILITIES

Attachment C shall be amended to include the following Customer Facilities for Amendment No. 2 - Scope of Work:

Facility	Location	Square Feet
Oregon High School (OHS) (includes Bus Garage)	210 South 10 <sup>th</sup> Street Oregon, IL 61061	111,845
Blackhawk Center (BHC)	1101 Jefferson Street Oregon, IL 61061	51,800
David L. Rahn Jr. High School (DLR)	105 West Brayton Mount Morris, IL 61054	67,200
Oregon Elementary School (OES) (Etnyre, Jefferson, + 2006 Center Addition)	1150 Jefferson Street Oregon, IL 61061	130,296
Administration Building (District)	206 South 10 <sup>th</sup> Street Oregon, IL 61061	2,400

## ATTACHMENT D SCOPE OF WORK

Attachment D shall be amended to include the following Scope of Work for Amendment No. 2:

Compliance + Timeliness
We view our relationship with the District as a partnership. As part of this turnkey set of services, ENGIE will inspect, verify, + commission all completed scope items. ENGIE provides + manages all compliance/approvals pertaining to the scope of work. We coordinate with District staff, Municipal Advisor, + other District-preferred providers + consultants to ensure compliance + timeliness:
American Concrete Institute (ACI)
American Society for Testing + Materials (ASTM)
American Society of Heating, Refrigeration + Air Conditioning Engineers (ASHRAE)
Americans with Disabilities Act (ADA)
Association for Advancement of Sustainability in Higher Education (AASHE)
Clean Water Act (CWA)
Committee on National Security Systems (CNSS)
Crime Prevention Through Environmental Design (CPTED)
Environmental Protection Agency (EPA)
Health/Life Safety (H/LS)
Higher Education Compliance Alliance (HECA)
Illinois Board of Higher Education (IBHE)
Illinois Emergency Management Agency (IEMA)
Illinois State Board of Education (ISBE)
Illuminating Engineering Society of North America (IESNA)
International Code Council (ICC)
International Energy Conservation Code (IECC)
National Electrical Code (NEC)
National Electrical Manufacturers' Association (NEMA)
National Fire Protection Association (NFPA)
National Floor Safety Institute (NFSI)
National Roofing Contractors Association (NRCA)
Occupational Safety + Health Administration (OSHA)
Regional Office of Education (ROE)
Safe Drinking Water Act (SDWA)
Tile Council of North America (TCNA)
Underwriters' Laboratories (UL) etc.

ENGIE Services U.S. Inc. (ENGIE Services U.S.) works with these providers to assure that relevant bond, e-rate, grant, foundation funding, rebate, and incentive applications are completed and that the funding accrues directly to the District. We coordinate the delivery of asbuilt drawings and Operations and Maintenance (O+M) manuals, both as a permanent record and as a training tool. ENGIE Services U.S. involves these providers and District staff as much as each desire.

# Asbestos Containing Materials (ACMs)

ENGIE Services U.S. tests for the existence of ACMs that could be disturbed during the renovations prior to construction only in specific areas indicated below. ENGIE Services U.S. properly abates and disposes of all ACMs that are disturbed during the renovations in the

specified areas only. Any additional ACM abatement work would require an agreement addendum.

## Health/Life Safety (H/LS) Compliance

ENGIE Services U.S. resolves H/LS violations only as specified in the areas indicated below. Work necessitated by requirements, specifications, and/or violations in addition to and/or outside of the areas indicated below would require an agreement addendum.

## Future Amendment

"Future Amendment" outlines H/LS violations removed from Amendment No. 2. The addition of these items would require an agreement addendum.

Below is an outline of the ENGIE Services U.S. creative solutions:

ENGIE CREATIVE SOLUTIONS		ЭНС	2		ETNYRE	CENTER		JEFFERSON		BHC	DLR	<b>BUS GARAGE</b>	DISTRICT
	1936	1960	1975 <sup>V</sup>	2001	1971 E1	2006 CI	1956	1984 JE	1986	1997 BI	1955 DI	1960 BI	1969 DI
Age of section			19	20		) 20		19	19			19	19
	32,751	<mark>63,166</mark>	10,854	5,074	42,070	41,730	35,012	4,444	7,040	51,800	57,400	,960	2,400
Square footage	32	63	10	5,C	42	41	35	4,4	7,0	51	57	1,9	2,4
AMENDM	E١	JT	#2	2									
ROOFING + MOISTURE MANAGEMENT INTERFACE	Х	Х	Х	Х	Х	Х	Х	Х	X	Х		Χ	
DOOR + WINDOW REPAIRS	X	X			X	v	X	X	X	X			
FLOORING PRESS BOX + ATHLETIC REPAIRS	X X	X X	х	х	Х	X				X X			
SECURITY CORRIDOR	^	^	^	^						^			x
CPTED TRAFFIC CALMING	Х	х	х	х	Х	х	Х	Х	X	Х			^
INTEGRATED DIGITAL SOLUTIONS: SURVEILLANCE +	~	~	~	~	~	^	~		~	^			
CONTROLLED ACCESS	Х	Х	Х	Х	х	х	x	x	x	Х			x
INTEGRATED DIGITAL SOLUTIONS: SAFETY													
COMMUNICATIONS + DIGITAL TIME MANAGEMENT	Х	Х	Х	Х	Х	Х	X	X	Χ	Х			X
INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION	Х	Х	Х	Х	Х		X	Χ	Χ	Х	Х	Χ	X
ELECTRICAL, ILLUMINATION, + CONSERVATION	Х	Х	Х	Х	X	X	X	X	X	X	X	X	X
OTHER H/LS, FIRE, + CODE COMPLIANCE	X	X	Х	Х	Х	Х	X	X	X	X	Х	Х	
PLUMBING, LOCKER ROOMS + COMFORT STATIONS	X X	Х			X		X			X			
		V	V	V	X	v	v	V	V	X			
ENGLE STUDENT + COMMUNITY ENGAGEMENT SUPPORT	X X	X X	X X	X X	X	X	X	X	X	X			
ENGIE RESIDENTIAL SAVINGS + EDUCATION	X	X	X	X	X X	X X	X X	X X	X X	X X			
ENGIE GREEN RIBBON SCHOOLS SUBMISSION	<b>^</b>	Λ	Χ				AS						
					LUI	DED	AJ	SFE		EV			
ENGIE CREATIVE SOLUTIONS	6		_		I ETNYRE	S CENTER	0	4 JEFFERSON	(0	7 BHC	5 DLR	<b>BUS GARAGE</b>	<b>DISTRICT</b>
Age of section	1936	1960	1975	2001	1971	2006	1956	1984	1986	1997	1955	1960	1969
Square footage	<mark>32,751</mark>	<mark>63,166</mark>	10,854	<mark>5,074</mark>	42,070	41,730	35,012	4,444	7,040	51,800	57,400	1,960	2,400
FUTURE AMI	EN	ID	MI	EN	IT								
COMFORT STATIONS					Χ		Χ						
TOUCHLESS WATER FILLING STATIONS		Χ											
WINDOWS	Х						X	Χ	X				
CPTED TRAFFIC CALMING					Χ	Х							
ROOFING				Χ		Х							
		Х	Х		Х		Х	Χ	Χ				
LOCKER REPAIRS		^	~		_		_						
INTEGRATED DIGITAL SOLUTIONS: INTERIOR													
INTEGRATED DIGITAL SOLUTIONS: INTERIOR CONTROLLED ACCESS	x	x	x		x	x	x	x	x	x			
INTEGRATED DIGITAL SOLUTIONS: INTERIOR CONTROLLED ACCESS ATHLETIC REPAIRS	x	x X			x		x	x	x	x			
INTEGRATED DIGITAL SOLUTIONS: INTERIOR CONTROLLED ACCESS	x	x				X	X						

# Amendment No. 2 - Limited Notice to Proceed ("Limited NTP") Work

The Scope of Work associated with this Limited NTP is as follows:

- 1) Project planning and development engineering services required for ENGIE Services U.S. to begin construction on May 24, 2021;
- 2) Preparation of Construction Documents, including drawings and specifications;
- 3) Preparation of equipment submittal packages for district review and approval; and
- 4) Preparation of orders for long lead time equipment and supplies as needed to maintain 2021 construction schedule.

ENGIE Services U.S. shall not be required to perform work in excess of the Limited NTP Work cost of \$650,000.

OES

ENGIE Services U.S. will address these included H/LS Items

Item ID	Location (Room #)	Description of Violation	Specification	Units of Measure	Qty	ESUS Category
1	392, Custodial(Old Nurse), 141, Stage	Room does not have fire detector	Install fire detector	Ea.	5	INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION
2	Etnyre Toilet Rooms(6), 344, 343, 342, 321, 323, 322, 301, 303, 302, 300, 311, 312, 313, 353, 354, 336, 337, 330, 331, 333, 355, Girls Toilet Room(lefferson), 120	No emergency light in the room.	install emergency light	Ea.	29	ELECTRICAL, ILLUMINATION, + CONSERVATION
3	313	Wood plate mounted on the floor that is a tripping hazard.	Remove wood and repair floor.	Ea.	1	FLOORING
4	235, Kitchen, West Exit from Jefferson	Emergency light not working	Repair light.	Ea.	3	ELECTRICAL, ILLUMINATION, + CONSERVATION
5	Library	Door to corridor does not have an exit sign.	Install exit sign.	Ea.	1	ELECTRICAL, ILLUMINATION, + CONSERVATION
6	Storage 394	Interior door is in poor condition.	Replace door and hardware.	Ea.	1	DOOR + WINDOW REPAIRS
7	385(2), 392, 344, 343, 342, 321(2), 323, 322, 301(2), 303, 302, 311(2), 312, 354, 336, 337, 355, 394, Stage Stairs(2), 334, 335, 330(2)	Existing doors have deadbolts and do not latch	Remove and replace hardware	Ea.	27	DOOR + WINDOW REPAIRS
8	300(2), 231, Old Kitchen, 134, 126	Glass in door is not fire rated	Replace glass with fire rated glass.	Ea.	6	DOOR + WINDOW REPAIRS
9	394A, 384, 383A, 383B, 381, 390, 372, 361, 304, 340, 300(2), 314,351, 352,334,335,005, 135,120C,117,107	Door does not have a closer	install closer on the door	Ea.	22	DOOR + WINDOW REPAIRS
10	South Entry	Existing glass in entrance framing is cracked.	Remove and replace glass.	Ea.	1	DOOR + WINDOW REPAIRS
11	Ramp	Terrazzo delaminating at the top of the ramp.	Repair terrazzo.	Ea.	1	FLOORING
12	Shelter 134	Existing room does not have ventilation.	Install a ventilation system.	Ea.	1	MECHANICAL + BAS
13	Tunnel	Tunnels are used for storage	Remove items from the tunnels.	Ea.	1	OTHER H/LS, FIRE, + CODE COMPLIANCE
14	Electrical Panels	Items are stored within 3 feet of electrical panels.	Remove items from in front of panels.	Ea.	1	OTHER H/LS, FIRE, + CODE COMPLIANCE
15	361 and 134	Lights not working.	Repair so lights work.	Ea. 2		ELECTRICAL, ILLUMINATION, + CONSERVATION
16	Exterior Masonry	Masonry requires repairs.	Tuckpoint masonry	Lot	1	ROOFING + MOISTURE MANAGEMENT INTERFACE
17	Etnyre Roof Areas 1,2,3,4,5,6,7,9,10,11,12	Existing roofs are in poor condition.	Remove and replace roofing.	Ea.	42000 ROOFING + MOI MANAGEMENT IN	
18	Jefferson Roof Areas 2 and 5	Existing roofs are in poor condition.	Remove and replace roofing.	Ea.	POOFING + MO	
19	Boys Toilet Rooms(2)	Existing terrazzo floor in poor condition by urinals	Remove and replace flooring	Ea.	2	FLOORING
20	Main Office	Carpet is a tripping hazard.	Remove and replace carpet.	SF	700	FLOORING
21	Concrete Stoop outside of Room 121	There is a crack in the stoop	Repair the crack	Ea.	1	OTHER H/LS, FIRE, + CODE COMPLIANCE
22	Entire Building	Existing intercom and clock system does not work properly	Remove and replace system	Lot	1	INTEGRATED DIGITAL SOLUTIONS: SAFETY COMMUNICATIONS + DIGITAL TIME MANAGEMENT
23	Entire Building	Existing camera system is obsolete	Replace camera system.	Lot	1	INTEGRATED DIGITAL SOLUTIONS: SURVEILLANCE + CONTROLLED ACCESS
24	Entire Building	Existing exterior doors have typical key locks.	Install access control system	Lot	1	INTEGRATED DIGITAL SOLUTIONS: SURVEILLANCE + CONTROLLED ACCESS
25	Entire Building	The keying system for the building does not all match	Rekey Etnyre and Jefferson doors	Lot	1	DOOR + WINDOW REPAIRS
26	Jefferson Wing Classrooms and Main Office	Interior doors, wood frames and hardware do not function properly	Remove and replace doors, frame and hardware	Ea.	15	DOOR + WINDOW REPAIRS
27	Jefferson Wing Other Than Classrooms	Interior doors and hardware do not function properly	Remove and replace door and hardware	Ea.	36	DOOR + WINDOW REPAIRS
28	South Exterior Entrances at Etnyre	Existing HM entrances are in poor condition.	Replace frame, doors and hardware.	Ea.	1	DOOR + WINDOW REPAIRS
29	Etnyre Soffits and Fascias	Wood soffits and fascias are in poor condition.	Repair and/or replace soffits and fascias	SF	3000	ROOFING + MOISTURE MANAGEMENT INTERFACE
30	Etnyre Gymnasium	Existing electric heating coil in air handling unit no longer operates.	Replace existing heating coil	Ea.	1	MECHANICAL + BAS
31	Area in Front of Etnyre	Asphalt is in poor condition.	Remove and replace asphalt and base.	SY	700	CPTED TRAFFIC CALMING
32	East Lot and Drive to Back Parking Lot	Asphalt is in poor condition.	Remove and replace asphalt and base.	SY	1300	CPTED TRAFFIC CALMING
33	North Parking Lot	There is not adequate parking lot lighting	Install parking lot lighting	Lot	1	ELECTRICAL, ILLUMINATION, + CONSERVATION
34	Exterior Window by 201	Existing seals are broken in the windows	Remove and replace the glass	Ea.	1	DOOR + WINDOW REPAIRS
35	Office 118	Water has damaged walls and ceiling	Repair walls and ceiling	Lot	1	ROOFING + MOISTURE MANAGEMENT INTERFACE

Item ID	Location (Room #)	Description of Violation	Specification	Units of Measure	Qty	ESUS Category
36	Entire School	Existing light fixtures are inefficient	Remove and replace light fixtures and controls	SF	124000	ELECTRICAL, ILLUMINATION, + CONSERVATION
37	Sidewalks	Concrete sidewalks are in poor condition.	Remove and replace sidewalks.	SF	7500	CPTED TRAFFIC CALMING
38	Sidewalks	There are a couple drainage cover plates in poor condition	Remove and replace	Ea.	2	OTHER H/LS, FIRE, + CODE COMPLIANCE
39	Etnyre Various Rooms	Flooring is missing in classrooms or has worn/ripped/bubbled and creates a tripping hazard	Remove and replace flooring.	SF	20175	FLOORING
40	Jefferson - Boys 105, Girls 108	Restroom Remodeling	Renovate antiquated gang restrooms and provide ADA accessibility	Ea.	2	PLUMBING + LOCKER ROOMS + COMFORT STATIONS

**DLR** ENGIE Services U.S. will address these included H/LS items

Item ID	Location (Room #)	Description of Violation	Specification	Units of Measure	Qty	ESUS Category
1	Stor 102, Stor 006, Stor 005, Stor 007	Room does not have fire detector	Install fire detector	Ea.	6	INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION
	Stair by Gym, Lower Level Toilet Rooms, 1st and 2nd Floor Stairs, Conf 113, Concession, South Side of Cafeteria, Boys and Girls Locker Room Toilet and Showers, Lower Level Staff Toilet Rooms, Comfort 008	No emergency light in the room.	Install emergency light	Ea.	20	ELECTRICAL, ILLUMINATION, + CONSERVATION
3	North West Doors in Gym	Exit sign not working	Repair or replace exit sign	Ea.	1	ELECTRICAL, ILLUMINATION, + CONSERVATION
4	Cafeteria	Missing directional exit sign to exterior door	Install exit sign.	Ea. 1		ELECTRICAL, ILLUMINATION, + CONSERVATION
5	Cafeteria	Exit signs are over doors that are not used for exiting.	Remove exit signs over corridor doors	Ea.	2	ELECTRICAL, ILLUMINATION, + CONSERVATION
6	Custodial by Main Office, Door between 208/210	Existing doors have deadbolts and do not latch	Remove and replace hardware	Ea.	2	DOOR + WINDOW REPAIRS
7	202B, Nurse, East Stage Door, Custodial off 029, Storage off 029, 026(2), Boys PE 017, Furnace 002A, Main Office	Glass in door is not fire rated	Replace glass with fire rated glass.	Ea.	10	DOOR + WINDOW REPAIRS
8	Storage 202B, Nurse, Art 103, Storage off 029	Glass in borrowed lite is not fire rated	Replace glass with fire rated glass.	Ea.	4	DOOR + WINDOW REPAIRS
9	Custodial at Gym Mezzanine, Storage 202B, Storage 104A, Custodial by Gym. Storage 121.	Door does not have a closer	Install closer on the door	Ea.	13	DOOR + WINDOW REPAIRS
10	Door between Band and Storage 028	Existing door closer is broken.	Replace closer.	Ea.	1	DOOR + WINDOW REPAIRS

## OHS, BHC, + BUS GARAGE ENGIE Services U.S. will address these included H/LS Items

				Units of		
Item ID	Location (Room #)	Description of Violation	Specification	Measure	Qty	ESUS Category
1	Storage 201, Storage 107, Auditorium, Stage, Storage 137A, Cafeteria, Storage off Kitchen	Room does not have fire detector	Install fire detector	Ea.	12	INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION
2	Room 132	Exterior door does not have a fire alarm pull station	Install a fire alarm pull station	Ea.	1	INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION
3	2nd Floor Boys and Girls, 116, 114, Boys and Girls by Band, Nurse, 127	No emergency light in the room.	Install emergency light	Ea.	8	ELECTRICAL, ILLUMINATION, + CONSERVATION
4	Corridor Doors Leading to Blackhawk Center	Existing pairs of doors have manual hold open devices.	Replace with magnetic hold open devices	Ea.	4	INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION
5	Many Corridors, 130, 133, Locker Rooms, Gym, Cafeteria	Exit signs are old and not reliable	Replace exit sign	Ea.	20	ELECTRICAL, ILLUMINATION, + CONSERVATION
6	130, Boys Locker Room, Corridor Leading to Blackhawk	Exit sign required for proper egress path	Install exit sign.	Ea.	3	ELECTRICAL, ILLUMINATION, + CONSERVATION
7	High School and Blackhwak Center	Existing buildings fire alarm system to do not communicate	Modify to allow communication	Lot	1	INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION
8	Storage 106A, Storage 107, 108, 201, Cafeteria Toilet Rms	Interior door is in poor condition.	Replace door and hardware.	Ea.	6	DOOR + WINDOW REPAIRS
9	Storage 108A	Existing doors have deadbolts and do not latch	Remove and replace hardware	Ea.	1	DOOR + WINDOW REPAIRS
10	Counselor 116, Main Office, Band	Existing doors and frames are not fire rated	Remove and replace frame, doors and hardware	Ea.	3	DOOR + WINDOW REPAIRS

Item ID	Location (Room #)	Description of Violation	Specification	Units of Measure	Qty	ESUS Category
11	137A, 137B, 137C, 137, Storage 135A, Storage 135C, Cust 164	Glass in door is not fire rated	Replace glass with fire rated glass.	Ea.	7	DOOR + WINDOW REPAIRS
12	Storage 1078A, Storage 106B, Storage 106C, Basement(2)	Existing doors have padlocks	Remove padlocks and replace with lockset	Ea. 5		DOOR + WINDOW REPAIRS
13	137a, 137B and 137C	Glass in borrowed lite is not fire rated	Replace glass with fire rated glass.	Ea.	3	DOOR + WINDOW REPAIRS
14	Storage 108A, Storage 107A, Storage 106B, Storage 106C, Storage 126B, 137A, 137B, 137C, Storage 135A, Storage 135C, Gym Mezzanone Fan Room, Storage 138A(2), Home Ec 159, Wood Shop to Tunnel	Door does not have a closer	Install closer on the door	Ea.	15	DOOR + WINDOW REPAIRS
15	1st and 2nd floor Custodial Rooms in 2 story section	Room does not have exhaust	Install an exhaust system	Ea.	2	MECHANICAL + BAS
16	Storage off cafeteria	Existing door is missing the lockset	Install lockset	Ea.	1	DOOR + WINDOW REPAIRS
17	Bus Garage Office Roof	Roof leaks water into the space	Remove and replace the roofing system	Lot	1	ROOFING + MOISTURE MANAGEMENT INTERFACE
18	2nd Floor Girls Toilet Room	Lighting does not provide minimum required footcandles	Remove and replace the lighting	Lot	1	ELECTRICAL, ILLUMINATION, + CONSERVATION
19	124	Existing wall is made out of wood and combustible	Remove wall construction	Lot	1	OTHER H/LS, FIRE, + CODE COMPLIANCE
20	Door 6	Existing exterior doors and frames in poor condition	Remove and replace doors and frames	Ea.	1	DOOR + WINDOW REPAIRS
21	Original Building	Existing front stoop is in poor condition.	Remove and replace	Ea.	1	CPTED TRAFFIC CALMING
22	Electrical Panels	Items are stored within 3 feet of electrical panels.	Remove items from in front of panels.	Lot	1	OTHER H/LS, FIRE, + CODE COMPLIANCE
23	Tunnel	Tunnels are used for storage	Remove items from the tunnels.	Lot	1	OTHER H/LS, FIRE, + CODE COMPLIANCE
24	AG Shop	Roof drain is in poor condition	Remove and replace roof drain	Ea.	1	ROOFING + MOISTURE MANAGEMENT INTERFACE
25	Blackhawk Center	Water heater doesnot function properly	Remove and replace hot water heater	Eal	1	PLUMBING + LOCKER ROOMS + COMFORT STATIONS
26	Blackhawk Gymnasium	Existing speaker does not work	Remove and replace speaker	Lot	1	PRESS BOX + ATHLETIC REPAIRS
27	Girls and Boys Locker Rooms and Coaches Office	Existing lockers are in poor condition	Remove and replace lockers	Ea. 340		OTHER H/LS, FIRE, + CODE COMPLIANCE
28	Entire Building	Masonry requires repairs.	Tuckpoint masonry	Lot 1		ROOFING + MOISTURE MANAGEMENT INTERFACE
29	Fieldhouse	Existing flooring is in poor condition due to water isssue	Remove, replace floor including moisture repairs	SF	23000	FLOORING
30	Gym Divider Partition	Existing divider partition is in poor condition	Remove and replace partitions-Non Powered	Lot	1	PRESS BOX + ATHLETIC REPAIRS
31	Main Office	Existing carpet is in poor condition	Remove and replace flooring	SF	2000	FLOORING
33	Roof Areas 2,3 and 8	Existing roofs are in poor condition.	Remove and replace roofing system	SF	26000	ROOFING + MOISTURE MANAGEMENT INTERFACE
34	Blackhawk Locker Rooms by Administration Area	Existing flooring is in poor condition due to water isssue	Remove and replace with LVT	SF	1000	FLOORING
35	Blackhawk Gym and Main Gym	Existing basketball backstop motors, baseball cage motors and divider curtain motors are leaking oil and need to be replaced.	Remove and replace the motors	Ea.	21	PRESS BOX + ATHLETIC REPAIRS
36	Blackhawk Lobby and Administration Area	Carpet is a tripping hazard.	Remove and replace the carpet.	SF	2400	FLOORING
37	Blackhawk Boiler Room	Existing boilers do not work properly	Remove and replace boilers	Ea.	2	MECHANICAL + BAS
38	Blackhawk	Southwest condensing unit does not work properly	Remove and replace condensing unit	Ea.	1	MECHANICAL + BAS
39	Blackhawk	Existing water softener does not work properly	Remove and replace water softener	Ea.	1	PLUMBING + LOCKER ROOMS + COMFORT STATIONS
40	Entire Building	Existing camera system is obsolete	Replace camera system.	Lot	1	INTEGRATED DIGITAL SOLUTIONS: SURVEILLANCE + CONTROLLED ACCESS
41	Entire Building	Existing exterior doors have typical key locks.	Install access control system	Lot	1	INTEGRATED DIGITAL SOLUTIONS: SURVEILLANCE + CONTROLLED ACCESS
42	Entire Building	Existing clock and intercom system does not work properly	Replace clock and intercom system	Lot	1	INTEGRATED DIGITAL SOLUTIONS: SAFETY COMMUNICATIONS + DIGITAL TIME MANAGEMENT
43	Existing Running Track	The track surface is worn and in poor condition	Replace the track surface	Lot	1	PRESS BOX + ATHLETIC REPAIRS
44	North Blackhawk Parking Lots and Drives	Existing ashpalt is in poor condition	Remove and replace parking lots	SY	9500	CPTED TRAFFIC CALMING
45	South Blackhawk Drive and Area by Kitchen Door	Existing ashpalt is in poor condition	Remove and replace parking lots	SY	1200	CPTED TRAFFIC CALMING
46	South parking Lot and Drive	Existing ashpalt is in poor condition	Remove and replace parking lots	SY	10200	CPTED TRAFFIC CALMING
47	Exterior Stairs - East Side	Existing concrete stairs are in poor condition	Remove and replace the stairs	Ea.	3	OTHER H/LS, FIRE, + CODE COMPLIANCE
48	Sidewalks	Concrete sidewalks are in disrepair	Remove and replace sidewalks	SF	2700	CPTED TRAFFIC CALMING
50	Blackhawk Addition	Metal roof system leaks water into the building	Repair the metal roof system	Lot	1	ROOFING + MOISTURE MANAGEMENT INTERFACE

Item ID	Location (Room #)	Description of Violation	Specification	Units of Measure	Qty	ESUS Category
51	East Press Box	Press box is in poor condition and not structurally safe	Remove and replace the press box	Lot	1	PRESS BOX + ATHLETIC REPAIRS
52	Blackhawk Addition	Drainage on north side does not work properly	Improve drainage	Lot	1	CPTED TRAFFIC CALMING
53	Dryer vent	Existing dryer vent does not work properly	Remove and replace dryer vent	Ea.	1	MECHANICAL + BAS
54	High School	Existing domestic hot water heater is in poor condition	Remove and replace hot water heater	Ea.	1	PLUMBING + LOCKER ROOMS + COMFORT STATIONS
55	Blackhawk Fieldhouse	Exhaust fans do not operate properly	Remove/replace the motors for the exhaust fans	Ea.	4	MECHANICAL + BAS
56	Entire School	Existing light fixtures are inefficient	Remove and replace light fixtures and controls	SF	214000	ELECTRICAL, ILLUMINATION, + CONSERVATION
57	Boys and Girls Locker room Showers	Existing shower floor drains do not work properly	Remove and replace floor drains	Ea. 6		PLUMBING + LOCKER ROOMS + COMFORT STATIONS
58	Boys and Girls Locker room Showers	Existing shower assemblies do not function	Remove and replace shower assemblies	Ea.	12	PLUMBING + LOCKER ROOMS + COMFORT STATIONS
59	Kitchen	Existing sewage ejector pit pump does not work	Remove and replace the pump	Ea.	1	MECHANICAL + BAS
60	Girls and Boys Coaches Offices	Asbestos floor tile needs replacement	Remove and replace floor tile	SF	200	PLUMBING + LOCKER ROOMS + COMFORT STATIONS
61	Library	Existing carpet is a tripping hazard	Remove and replace carpet	SF	2900	FLOORING
62	High School - Girls Locker Rooms	Locker Room and Coach's Office Renovations	Renovate antiquated Locker Rooms and provide ADA accessibility	SF	1530	PLUMBING + LOCKER ROOMS + COMFORT STATIONS
63	High School - Boys Locker Rooms	Locker Room and Coach's Office Renovations	Renovate antiquated Locker Rooms and provide ADA accessibility	SF	2750	PLUMBING + LOCKER ROOMS + COMFORT STATIONS
64	High School - Original Building 1st & 2nd Floor Restrooms	Restroom Modernization	Renovate antiquated Gang Rooms and provide ADA accessibility	Ea.	4	PLUMBING + LOCKER ROOMS + COMFORT STATIONS

# DISTRICT ENGIE Services U.S. will address these included H/LS Items

Item ID	Location (Room #)	Description of Violation	Specification	Units of Measure	Qty	ESUS Category
1		The sum total of the violations above is \$642,000. Based on a cost evaluation of the Architect, using Square Foot Costs with R5Means Data 2019, the interpolated cost per 5 of a single story office building with 2,400 sf being wood framed and sided is \$214.35/sf per page 174. Location factor for the closest big cirly is Rokford at an 11% increase per page 522. Therefore, \$214.35/sf x 1.11 = \$237.93. The Historical Cost Indexes from 2018 to 2019 was 4.7% escalation factor per year. Therefore, scalation from 2019 to 2021 can be assumed to be 2 x 4.7% = 94.8%. Therefore, \$237.93 x 1.094 = \$260.30/sf. 2400 x \$260.30 = \$624,720.00. It is our opinion that it would be less expensive to replace the structure with a new building than to correct the violations above.	Demolish and replace the district office building	SF	2400	SECURITY CORRIDOR

## **ROOFING + MOISTURE MANAGEMENT INTERFACE**

School(s):	OES + OHS
Category:	Building Envelope Repair - Tuckpointing
H/LS Item #(s):	OES-16, OHS-28

#### **ENGIE Services U.S. will:**

- OES Etnvre
  - Grind out and tuck point all step cracks, sealant repairs, defective mortar joints, and minor holes Remove fasteners and unused conduit 0
  - **OES** Jefferson
    - Grind out and tuck point all step cracks sealant repairs, defective mortar joints, and minor holes 0
    - Remove fasteners and unused conduit 0
    - Replace two 8" x 8" glass blocks 0
    - Repair damaged limestone at entry using Jahn repair mortar 0
    - Repair four damaged corners at the concrete foundation 0
  - OHS Original 1936 2-Story Building

.

- Grind out and tuck point all step cracks, sealant repairs, defective mortar joints, and minor holes
  - Remove fasteners and unused conduit
  - Repair nine damaged corners at the concrete foundation
- OHS 1960 + 2001 Additions
  - Grind out and tuck point all step cracks, sealant repairs, defective mortar joints, and minor holes 0
  - Remove fasteners and unused conduit 0
  - Replace three 8" x 8" glass blocks 0
  - Repair five damaged corners at the concrete foundation 0
- OHS BHC
  - There are approximately 24 anchors and/or debris rusting and causing staining on the Concrete 0 Masonry Units (CMU)
  - Remove the anchors and repair the CMU using Jahn concrete repair mortar 0
  - Clean the rust stains  $\cap$

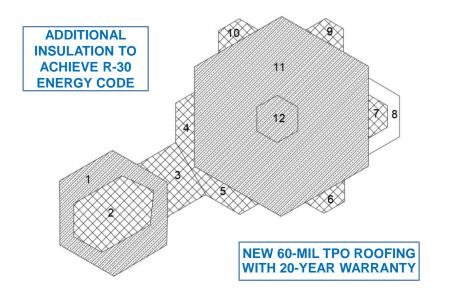
School(s):	OES + OHS
Category:	Energy Efficient Roofing Replacement
H/LS Item #(s):	OES-17, OES-18, OHS-17, OHS-33

#### **ENGIE Services U.S. will:**

- **OES** Etnyre
  - 0 Applicable roof sections 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, +12 (as shown below).
  - Exclude section 8 0
  - Remove and properly dispose of existing ballast and ethylene propylene diene monomer (EPDM) 0 membrane from the applicable roof areas
  - Remove and properly dispose of existing hypalon membrane 0
  - Replace all wet insulation as required 0
  - Reuse existing dry insulation 0
  - Provide and install additional layer of polyisocyanurate insulation 0
  - Meet minimum energy efficiency requirement of R-30 insulation 0
  - Provide and fully adhere new 60-mil white thermoplastic polyolefin (TPO) roofing membrane 0
  - Provide and install new pre-finished edge metal and counterflashing 0
  - Provide a 20-year manufacturer's warranty for new roof sections 0
  - **OES** Jefferson
    - 0 Applicable roof sections 2 + 4 (as shown below).
    - Remove and properly dispose of loose gravel from Areas 2 + 4 0
    - Mechanically fasten one layer of 3.2" polyisocyanurate insulation on Area 2 0
    - Mechanically fasten two layers of 2.5" polyisocyanurate insulation on Area 4 0
    - Meet minimum energy efficiency requirement of R-30 insulation 0
    - Provide and fully adhere new 60-mil EPDM roofing membrane 0
    - Provide and install new pre-finished edge metal and counterflashing 0
    - Reuse existing gutter and downspouts 0
    - Provide a 20-year manufacturer's warranty for new roof sections
  - OHS 1960 + 1975 Additions
    - Applicable roof sections 2, 3, +8 (as shown below) 0
    - Remove and properly dispose of ballast and membrane from Areas 2 + 8 0
    - 0
    - Mechanically fasten one layer of 3.2" polyisocyanurate insulation on Area 8 Mechanically fasten two layers of 1.5" polyisocyanurate insulation on Areas 2 + 3 0
    - Meet minimum energy efficiency requirement of R-30 insulation 0
    - Provide and fully adhere new 60-mil EPDM roofing membrane 0
    - Provide and install new pre-finished perimeter metal 0
    - Provide and install new scuppers 0

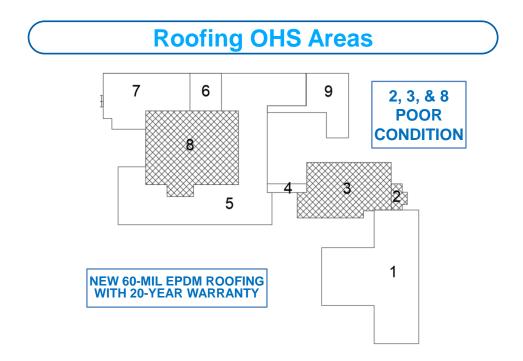
- Provide a 20-year manufacturer's warranty for new roof sections 0
- OHS Bus Garage Office
  - Applicable areas shown below 0
    - Provide and install one layer of 1.5" polyisocyanurate insulation 0
    - Provide and mechanically fasten one layer of 0.5" high density cover board over new 0 polyisocyanurate insulation
    - 0
    - Meet minimum energy efficiency requirement of R-30 insulation Provide and fully adhere new 60-mil EPDM roofing membrane 0
    - Provide and install plywood along interior wall and cover with EPDM membrane 0
    - Provide and install perimeter blocking and edge metal 0
    - Provide a 20-year manufacturer's warranty for new roof sections 0

# **Roofing Etnyre Areas**



# **Roofing Jefferson Areas**





**Roofing Bus Garage Office Area** 

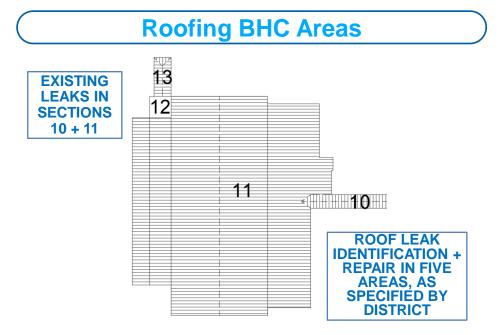


School(s): OHS **Roofing Repair** Category: H/LS Item #(s): OHS-24, OHS-50

ENGIE Services U.S. will: •

- OHS Agriculture Shop
  - Remove and properly dispose of existing roof drain which is in poor condition 0
  - Provide and install new roof drain 0
  - 0 Connect to existing downspout piping system
- OHS BHC
  - 0 Applicable roof sections 10 + 11 (as shown below)

- District identified five (5) areas of the existing metal roofing that have recurring roof leaks, centered along the walls that join the lower roof areas to the higher gym roof section or in the valley areas over the connecting hallway to the High School 1960 Addition
- Complete the following tasks for the identified five (5) leak areas:
  - Troubleshoot the identified leak areas and complete necessary repairs
  - Replace and/or tighten fasteners where necessary
  - Reseal fastener heads where necessary
  - Caulk joints in wall siding and counterflashing in the metal roof system and eave edges where necessary
  - Inspect previous repairs and replace patches where necessary
- Exclude long-term warranty coverage



School(s):OESCategory:Building Envelope Repair - MiscellaneousH/LS Item #(s):OES-29, OES-35

## ENGIE Services U.S. will:

- Etnyre Exterior
  - o Demo, remove, and properly dispose of approximately 3,000 SF of existing exterior soffits and fascias
  - o Provide and install new soffits and fascia panels
  - Finish to match existing construction
  - Exclude ACM abatement
- Jefferson Office 118
  - o Investigate and repair source of water infiltration near Office 118
  - o Demo, remove, and properly dispose of damaged interior walls in office area and associated storage
  - Provide and install new drywall
  - Patch and finish to match existing construction
  - o Exclude ACM abatement

# **DOOR + WINDOW REPAIRS**

School(s):OES, DLR, + OHSCategory:Door Repair/ReplacementH/LS Item #(s):OES-6, OES-8, OES-10, OES-25, OES-28, OES-34, DLR-7, DLR-8, OHS-8, OHS-11, OHS-13,<br/>OHS-16, OHS-20

ENGIE Services U.S. will:

٠

- Interior Door + Hardware Replacements
  - Applicable rooms:
    - OES Etnyre Storage 394
      - OHS Storage 106Å, Storage 107, 108, 201, Cafeteria Toilet Rooms

- Demo, remove, and properly dispose of one (1) existing interior door and associated hardware at 0 OES
- Demo, remove, and properly dispose of six (6) existing interior doors and associated hardware at 0 OHS
- Provide and install interior doors and hardware 0
- Match door and hardware finish to nearby doors 0
- Exclude ACM abatement 0
- Exterior Door + Hardare Replacements
  - Applicable rooms: 0
    - OHS BHC exterior door #6 •
  - Demo, remove, and properly dispose of one (1) existing exterior door, frame, and associated 0 hardware at BHC
  - Provide and install new hollow metal frame, hollow metal door, and all associated hardware for 0
  - exterior door, including electric strike for future access control
  - Match door and hardware finish to nearby doors 0
  - Exclude ACM abatement 0
- Door Lockset Installation
  - 0 Applicable rooms:
    - . OHS - Storage off cafeteria
  - Door is missing lockset 0
  - Provide and install new lockset on existing door 0
  - Match door and hardware finish to nearby doors 0
  - Exclude ACM abatement 0
- Door Glass Replacement
  - Applicable rooms: 0
    - OES Etnyre Rm 300 (quantity of 2)
    - . OES Center - Rm 231
    - OES Jefferson Rm 134, Rm 126, + Old Kitchen (Basement) .
    - DLR 202B, Nurse, East Stage Door, Custodial off 029, Storage off 029, 026 (quantity of 2), Boys PE 017, Furnace 002A, Main Office
    - OHS 137A, 137B, 137C, 137, Storage 135A, Storage 135C, Cust 164
  - Demo, remove, and properly dispose of existing glass from six (6) interior doors at OES 0
  - Demo, remove, and properly dispose of existing glass from ten (10) interior doors at DLR 0
  - Demo, remove, and properly dispose of existing glass from seven (7) interior doors at OHS 0
  - Provide and install new fire rated glass, sized to match existing openings 0
  - Exclude ACM abatement 0
  - Barrowed Lite Glass Replacement
    - Applicable rooms: 0
      - DLR Storage 202B, Nurse, Art 103, Storage off 029
      - OHS 137a, 137B and 137C
    - Demo, remove, and properly dispose of existing glass from four (4) barrowed lites at DLR 0
    - Demo, remove, and properly dispose of existing glass from three (3) barrowed lites at OHS 0
    - Provide and install new fire rated glass, sized to match existing openings 0
    - 0 Exclude ACM abatement
- Rekeying

0

0

- Applicable areas 0
  - OES Etnyre All interior locking doors
  - OES Jefferson All interior locking doors
  - Rekey existing locksets to a master key
- 0 Rekey sixty-seven (67) doors at Etnyre 0
- Rekey sixty-three (63) doors at Jefferson 0
- Leave all existing hardware in use except for new hardware as specified elsewhere in this addendum 0
- Window Glass Replacement
  - Applicable rooms: 0
    - OES Center South Entry + Exterior Window by Room 201
    - Demo, remove, and properly dispose of existing glass from two (2) exterior windows
  - Provide and install new glass, sized to match existing openings 0
  - Exclude ACM abatement 0
- Storefront Entry Replacement
  - Applicable rooms:

OES, DLR, + OHS Door Hardware

- OES Etnyre South Exterior Main Entrance
- Demo, remove, and properly dispose of existing storefront window/door system 0
- Provide and install new Special-Lite (or equal) broken frames and doors with thermal struts and 0 monumental doors
- Provide and install new Allegion hardware, including Von Duprin 99 series exit devices, LCN 4040xp 0 closers, and Schlage cylinders
- Provide and install new Special-Lite (or equal) mullions and hinges 0
- Provide and install one electric strike and power supply for access control. 0
- Include ACM abatement as necessary 0

#### H/LS Item #(s): OES-7, OES-9, DLR-6, DLR-9, DLR-10, OHS-9, OHS-12, OHS-14

- Door Closers
  - Applicable rooms:
    - OES Etnyre Rm 394A, 384, 383A, 383B, 381, 390, 372, 361, 304, 340, 300 (quantity of 2), 314, 351, 352, 334, 335
      - OES Jefferson Rm 005, 135, 120C, 117, 107
      - DLR Custodial at Gym Mezzanine, Storage 202B, Storage 104A, Custodial by Gym, Storage 121, Storage 122, Custodial off 029, Storage 026 (quantity of 2), Storage 025A, Custodial 22, Storage 017A, Comfort 008, Band (to Storage 028)
      - OHS Storage 108Å, Storage 107Å, Storage 106B, Storage 106C, Storage 126B, 137Å, 137B, 137C, Storage 135Å, Storage 135C, Gym Mezzanone Fan Room, Storage 138Å (quantity of 2), Home Ec 159, Wood Shop to Tunnel
  - Demo, remove, and properly dispose of existing door closers from fifty-one (51) interior doors
  - Provide and install new door closers
  - Exclude ACM abatement
- Door Latching/Locking Hardware Repairs (Deadbolt/Padlock Replacements)
  - Applicable rooms:
    - OES Etnyre Rm 385 (quantity of 2), 392, 344, 343, 342, 321(2), 323, 322, 301 (quantity of 2), 303, 302, 311 (quantity of 2), 312, 354, 336, 337, 355,394, Stage Stairs (quantity of 2), 334, 335, 330 (quantity of 2)
    - DLR Rm 208 (leading to 210), Custodial by Main Office
    - OHS Storage 108A, Storage 1078A, Storage 106B, Storage 106C, Basement (quantity of 2)
    - Demo, remove, and properly dispose of existing latching/locking hardware from twenty-seven (27) interior doors at OES Etnyre
    - Demo, remove, and properly dispose of existing latching/locking hardware from two (2) interior doors at DLR
    - Demo, remove, and properly dispose of existing latching/locking hardware from six (6) interior doors at OHS
    - Provide and install new latching/locking hardware as detailed below
    - Exclude ACM abatement



# Etnyre Door Latching/Locking Schedule

				OREGON E	LEMENTARY S	CHOOL - ETNYR	E WING					
					DOOR SCH	IEDULE						
	EXISTING	EXISTING DOOR									HARDWARE	RETROFI
ROOM ID	HARDWARE	TYPE	MATERIAL	FINISH	GLASS	WIDTH	HEIGHT	THICK	TYPE	MAT'L	SET	NOTE
Kitchen	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Kitchen	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
3irls Locker Room	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Boys Locker Room	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Stage Entry 1	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Stage Entry 2	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 5A	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 5B	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Science 4A	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Science 4C	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 3A	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 3B	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Resource 3C	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Resource 3D	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 2A	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 2B	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 2C(E)	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 2C(W)	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 1A	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 1B	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 1C	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Media Center Office	K/DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R2
Media Center Storage	K/DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R2
Classroom 6A	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Classroom 6B	DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R1
Special Ed (East)	K/DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R2
Special Ed (West)	K/DB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	H1	R2
provide Ed (11004)	1000	Long The	Diornito	2101110	2101110	Biorinto		Distriction				
					GENERAL	NOTES						
<ol> <li>ALL INTERIOR DOOR CON</li> </ol>												
2. ALL DOORS TO HAVE AN C			ICH COMPLIES	TO ADA REQUI	REMENTS.							
<ol><li>ALL DOOR SIGNAGE MUST</li></ol>												
<ol> <li>VERIFY DOOR KEYING RE</li> </ol>	QUIREMENTS WITH (	OWNER PRIOR	TO INSTALLATI	ON.								
			HARDWAR									
41	ONE (1) LOCKSE	T EQUAL TO SCH	LAGE ALX SERIES									
	ALL HARDWARE	TO MATCH EXIS	ITNG FINISH						]			
									-			
			RETROFI	NOTE					]			
र1	REMOVE EXISTIN	NG PULL PLATE, I	BACK PLATE, AND	DEADBOLT ON	DOOR				1			
	FILL OPENINGS I	N DOOR FROM F	REMOVED DEAD	BOLT, PREP AND	STAIN TO MATCH	HEXISTING FRAM	IE		1			
	FILL OPENING IN	FRAME FROM F	EMOVED DEAD	BOLT PREP AND	PAINT TO MATCH	H EXISTING FRAM	IF		1			
	LEVER SET TO BE							T OPENING	1			
	CUT NEW OPEN						CADDO	er or er mo				
82	REMOVE EXISTIN				CT DATE				1			
12									-			
	FILL OPENINGS I											
	FILL OPENING IN											
	LEVER SET TO BE											

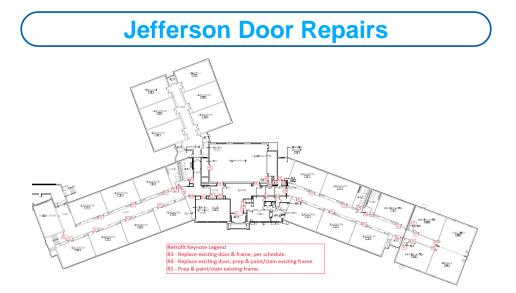
School(s):	OES + OHS
Category:	Door Repair/Replacement
H/LS Item #(s):	OES-26, OES-27, OHS-10

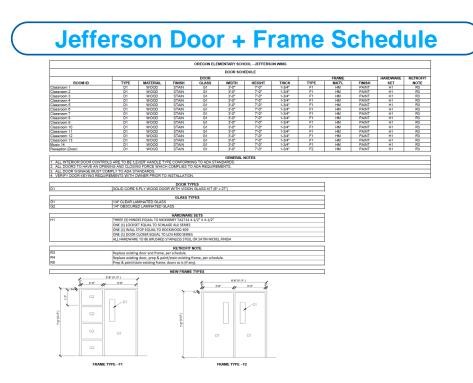
#### ENGIE Services U.S. will:

0

0

- Door, Frame, and Hardware Replacements
  - Applicable rooms
    - OES Jefferson Classroom 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, Music 14, and Reception Door (as shown on schedule)
    - OHS Counselor 116, Main Office, Band (no schedule provided)
    - Demo, remove, and properly dispose of existing door, frame, and hardware from fifteen (15) interior doors at OES
    - Demo, remove, and properly dispose of existing door, frame, and hardware from three (3) interior doors at OHS
    - Provide and install new hollow metal frame (including Side-Lite, if applicable), wood interior door, and hardware
    - Match door and hardware finish to nearby doors
    - o Include ACM abatement as necessary
- Door and Hardware Replacements
  - Applicable rooms (as shown on schedule)
    - OES Jefferson –twenty-three (23) locations
  - Demo, remove, and properly dispose of existing door and hardware from twenty-three (23) interior doors
  - Provide and install wood interior doors and hardware
  - Match doors and hardware finish to nearby doors
  - Prep and paint existing wood door frames
  - Exclude ACM abatement
- Frame Repairs
  - Applicable rooms (as shown on schedule)
    - OES Jefferson thirteen (13) locations
  - Prep and paint thirteen (13) existing wood door frames
  - Exclude ACM abatement





# (Jefferson Door (Paint Frame) Schedule )

				OREGON ELE	MENTARY SCHO	DOL - JEFFERS	ON WING					
					DOOR SCH	EDULE						
	1			DOOR				1	FRAME		HARDWARE	RETROFIT
ROOM ID	TYPE	MATERIAL	FINISH	GLASS	WIDTH	HEIGHT	THICK	TYPE	MATL	FINISH	SET	NOTE
Janitor (Across from Reading)	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Corridor (Outside Reading)	D1	WOOD	STAIN	G1	3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Reading Recovery Room	D1	WOOD	STAIN	G1	3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Corridor Storage 1	D1	WOOD	STAIN		3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Corridor Storage 2	D1	WOOD	STAIN		3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Multi-Purpose 1	D1	WOOD	STAIN	G1	3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Multi-Purpose 2	D1	WOOD	STAIN	G1	3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Multi-Purpose - Storage	D1	WOOD	STAIN		3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Multi-Purpose - Stage	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Multi-Purpose - Stage (Corridor)	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Reception Storage (Corridor)	D1	WOOD	STAIN		350"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Reception Corridor (Corridor)	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Corridor (Outside Teacher Lounge)	D1	WOOD	STAIN	G1	3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	HI	R4
Staff Toilet 1	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Staff Toilet 2	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Teacher Lounge	D1	WOOD	STAIN	G1	3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Sirls Restroom (East)	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Bovs Restroom (East)	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4 R4
Janitor (Outside East Restrooms)	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
East Vestibule (Interior Set)	D1	WOOD	STAIN	G1	3'-0" PAIR	7-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
Lower Level Corridor	01	WOOD	STAIN	G1	3'-0" PAIR	7'-0"	1-3/4"	EXISTING	EXISTING	PAINT	H1	R4
ower Level Tunnel Access	D1	WOOD	STAIN		3'-0"	7-0*	1-3/4"	EXISTING	EXISTING	PAINT	HI	R4
	D1	WOOD	STAIN		3'-0"	7'-0"	1-3/4"			PAINT	H1	R4 R4
Lower Level Storage	01	WOOD	STAIN		3-0*	7-0"	1-3/4*	EXISTING	EXISTING	PAINT	H1	R4
ALL INTERIOR DOOR CONTROL ALL DOORS TO HAVE AN OPEN ALL DOOR SIGNAGE MUST CON VERIFY DOOR KEYING REQUIR	ING AND CLOSIN MPLY TO ADA ST	NG FORCE WHIC ANDARDS.	H COMPLIES T	O ADA REQUIR								
			DOOR TY	DCC					т			
D1	SOLID CORE 5	5-PLY WOOD DO			9" x 27")				t			
			GLASS T	PES					т			
31	1/4" CLEAR LA	MINATED GLASS							t			
32		D LAMINATED G							t			
									•			
			HARDWARE	SETS					T			
41	THREE (3) HING	ES EQUAL TO MC	KINNEY TA2714 4	-1/2" X 4-1/2"					t			
	ONE (1) LOCKSE	ET EQUAL TO SCHL	AGE ALX SERIES						í			
		TOP EQUAL TO RO							1			
									{			
		CLOSER EQUAL TO E TO BE BRUSHED										
	PALL HARDWARE	E TO BE BRUSHED	STAINLESS STEEL	UK SATIN NICK	et riviori				1			
			RETROFIT	NOTE					T			
				NOTE					1			
R3		g door and frame,	per schedule.						ţ			
23 24 26	Replace existing	g door and frame, g door, prep & pai ain existing frame	per schedule. nt/stain existing	frame, per sche	dule.				ţ			

# Jefferson Paint Frame Schedule

				OREGON ELE	MENTARY SCH	DOL - JEFFERS	ON WING					
					DOOR SCH	EDULE						
		DOOR						FRAME		HARDWARE	RETROFI	
ROOM ID	TYPE	MATERIAL	FINISH	GLASS	WIDTH	HEIGHT	THICK	TYPE	MAT'L	FINISH	SET	NOTE
West Stairwell	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Boys Restroom (West)	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Girls Restroom (West)	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Main Vestibule (Interior Set)	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Reception (Storefront)	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Kindergarten 1A	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Kindergarten 1A - Restroom	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Kindergarten 4A	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Kindergarten 4A - Restroom	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Library 2A	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Computers 3A	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Lower Level - Old Kitchen	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
Lower Level - Electrical/Storage	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT	EXISTING	R5
3. ALL DOOR SIGNAGE MUST CO			INCTALLATION		MENTS.							
<ol> <li>ALL DOOR SIGNAGE MUST CO 4. VERIFY DOOR KEYING REQUI</li> </ol>			INSTALLATION									
4. VERIFY DOOR KEYING REQUI	REMENTS WITH OV	VNER PRIOR TO	DOOR TY	PES					[			
	REMENTS WITH OV		DOOR TY	PES					[			
4. VERIFY DOOR KEYING REQUI	REMENTS WITH OV	VNER PRIOR TO	DOOR TY	PES GLASS KIT (6" :								
4. VERIFY DOOR KEYING REQUI	SOLID CORE 5	VNER PRIOR TO	DOOR TY OR WITH VISION GLASS TY	PES GLASS KIT (6" :								
4. VERIFY DOOR KEYING REQUI	SOLID CORE 5	PLY WOOD DOC	DOOR TY OR WITH VISION GLASS TY	PES GLASS KIT (6" :								
4. VERIFY DOOR KEYING REQUI D1 G1	SOLID CORE 5	PLY WOOD DOG	DOOR TY OR WITH VISION GLASS TY	PES GLASS KIT (6* : PES								
4. VERIFY DOOR KEYING REQUI D1 G1	SOLID CORE 5	PLY WOOD DOG	DOOR TY DR WITH VISION GLASS TY LASS HARDWARE	PES GLASS KIT (6* : 'PES SETS								
4. VERIFY DOOR KEYING REQUI D1 G1 G2	SOLID CORE 5	VNER PRIOR TO PLY WOOD DOO MINATED GLASS D LAMINATED GI ES EQUAL TO MO	DOOR TY OR WITH VISION GLASS TY LASS HARDWARE KINNEY TA2714 4	PES GLASS KIT (6* : 'PES SETS								
4. VERIFY DOOR KEYING REQUI D1 G1 G2	SOLID CORE 5 SOLID CORE 5 1/4" CLEAR LAN 1/4" OBSCUREI THREE (3) HING ONE (1) LOCKSE	VNER PRIOR TO PLY WOOD DOO MINATED GLASS D LAMINATED GI ES EQUAL TO MO T EQUAL TO SCHL	DOOR TY OR WITH VISION GLASS TY LASS HARDWARE KINNEY TA2714 4 AGE ALX SERIES	PES GLASS KIT (6* : 'PES SETS								
4. VERIFY DOOR KEYING REQUI D1 G1 G2	SOLID CORE 5 SOLID CORE 5 1/4" CLEAR LAN 1/4" OBSCUREI THREE (3) HING ONE (1) LOCKSE ONE (1) WALL S'	VNER PRIOR TO PLY WOOD DOO MINATED GLASS D LAMINATED GI ES EQUAL TO MO T EQUAL TO SCHL TOP EQUAL TO SCHL	DOOR TY OR WITH VISION GLASS TY LASS HARDWARE KINNEY TA2714 AGE ALX SERIES DCKWOOD 409	PES GLASS KIT (6* : PES : SETS -1/2* X 4-1/2*								
4. VERIFY DOOR KEYING REQUI D1 G1 G2	SOLID CORE 5 SOLID CORE 5 1/4" CLEAR LAP 1/4" OBSCUREI THREE (3) HING ONE (1) LOCKSE ONE (1) DOOR (1) ONE (1) DOOR (1)	VNER PRIOR TO PLY WOOD DOO MINATED GLASS D LAMINATED GI ES EQUAL TO MO T EQUAL TO SCHL	DOOR TY OR WITH VISION GLASS TY LASS HARDWARE KINNEY TA2714 4 AGE ALX SERIES DCKWOOD 409 1 CCN 4000 SERIE	PES GLASS KIT (6* : PES :SETS -1/2* X 4-1/2*	x 27")							
4. VERIFY DOOR KEYING REQUI D1 G1 G2	SOLID CORE 5 SOLID CORE 5 1/4" CLEAR LAP 1/4" OBSCUREI THREE (3) HING ONE (1) LOCKSE ONE (1) DOOR (1) ONE (1) DOOR (1)	VNER PRIOR TO PLY WOOD DOO MINATED GLASS D LAMINATED GL ES EQUAL TO MCH T EQUAL TO SCHL TO P EQUAL TO SCHL LOSER EQUAL TO	DOOR TY OR WITH VISION GLASS TY LASS HARDWARE KINNEY TA2714 4 AGE ALX SERIES CKWOOD 409 I (CN 4000 SERIE STAINLESS STEEL	PES IGLASS KIT (6" : PES SETS -1/2" X 4-1/2" GR SATIN NICKE	x 27")							
4. VERIFY DOOR KEYING REQUI	International contents of the content of the conten	INTER PRIOR TO PLY WOOD DOC MINATED GLASS D LAMINATED GL ES EQUAL TO MC T EQUAL TO SCHL TOP EQUAL TO SCHL TOP EQUAL TO TO LOSSER EQUAL TO TO BE BRUSHED	DOOR TY OR WITH VISION GLASS TO LASS HARDWARE KINNEY TA2714 4 AGE ALX SERIES OCKWOOD 409 STAINLESS STEEL RETROFIT	PES IGLASS KIT (6" : PES SETS -1/2" X 4-1/2" GR SATIN NICKE	x 27")							
4. VERFY DOOR KEYING REQUIDD1 D1 G1 G2 G2 R3	International content of the content	INER PRIOR TO PLY WOOD DOC WINATED GLASS D LAMINATED GLASS D LAMINATED GI ES EQUAL TO MC TO PEQUAL TO SCHL TOP EQUAL TO SCHL TOP EQUAL TO RC LOSER EQUAL TO TO BE BRUSHED	DOOR TY OR WITH VISION GLASS TY LASS HARDWARE KINNEY TA2714 4 AGE ALX SERIES DCKWOOD 409 LCN 4000 SERIE STAINLESS STEEL RETROFIT per schedule.	GLASS KIT (6":     GLASS KIT (6":     FPES     SETS     -1/2" X 4-1/2"     GR SATIN NICKE     NOTE	x 27") L FINISH							
4. VERIFY DOOR KEYING REQUI	REMENTS WITH OV SOLID CORE S 144° CLEAR LAI 14° OBSCUREI 14° OBSCUREI THREE (3) HING ONE (1) LOCKS ONE (1) WALLS ONE (1) LOCKS ONE (1) LOCKS O	INTER PRIOR TO PLY WOOD DOC MINATED GLASS D LAMINATED GL ES EQUAL TO MC T EQUAL TO SCHL TOP EQUAL TO SCHL TOP EQUAL TO TO LOSSER EQUAL TO TO BE BRUSHED	DOOR TY DR WITH VISION GLASS TO LASS HARDWARE KINNEY TA2714 4 AGE ALX SENIES CKWOOD 409 U.CN 4000 SERIE STAINLESS STEEL RETROFIT per schedule. In/Stain existing	PES GLASS KIT (6" : PES SETS -1/2" X 4-1/2" OR SATIN NICKE NOTE frame, per sched	x 27") L FINISH							

# **FLOORING**

School(s):	OES
Category:	Flooring Repair
H/LS Item #(s):	OES-3, OES-11, OES-19

#### ENGIE Services U.S. will:

- Flooring Trip Hazard Repair
  - Applicable rooms:
    - OES Etnyre Room 313
    - Remove wood plate mounted to floor
    - Repair plumbing as necessary to patch flooring
    - Patch floor to match existing as closely as possible
- Terrazzo Repairs
  - Applicable rooms:

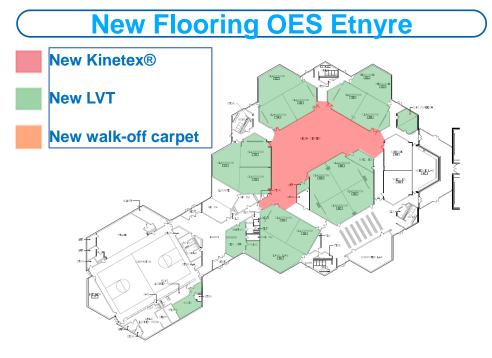
- OES Center Ramp, Boy's Restrooms (quantity of 2)
- Selectively demo existing terrazzo floor near top of ramp only where damage is evident
- Selectively demo existing terrazzo around urinals in each of the two (2) gang restrooms only where damage is evident, approximately 15 SF per restroom
- Repair subfloor as necessary
- Provide and install new terrazzo flooring

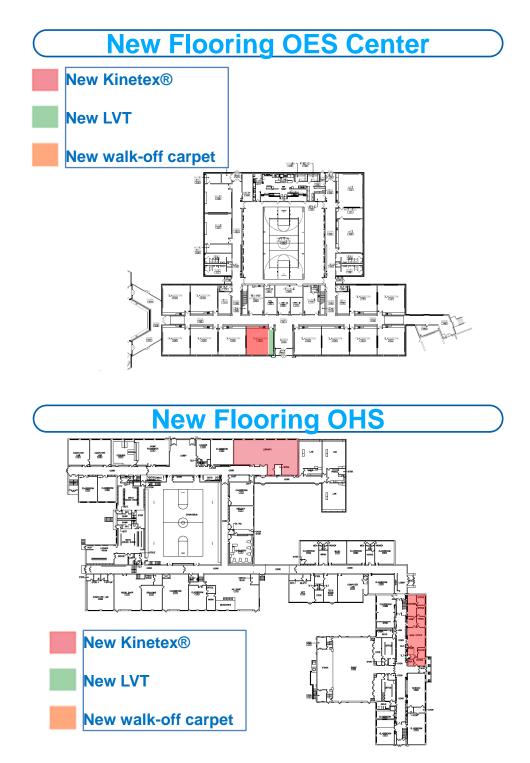
School(s):OES + OHSCategory:Flooring ReplacementH/LS Item #(s):OES-20, OES-39, OHS-31, OHS-34, OHS-36, OHS-61

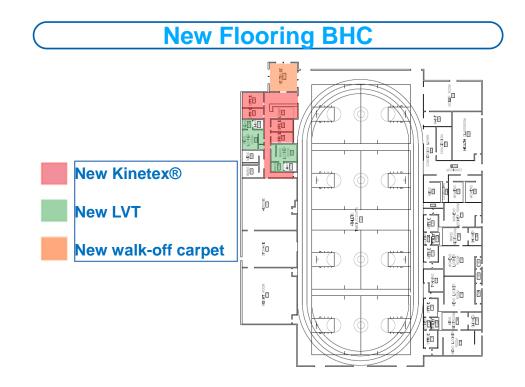
### ENGIE Services U.S. will:

0

- Replace Flooring
  - Applicable rooms (areas indicated below)
    - OES Etnyre Various Rooms
    - OES Center Main Office
    - OHS Main Office + Library
    - OHS BHC Lobby, Locker Rooms, + Administration Area
  - $\circ$   $\,$  Demo, remove, and properly dispose of existing flooring in
    - OES Etnyre approximately 20,175 SF
    - OES Center approximately 700 square feet (SF)
    - OHS approximately 4,900 SF
    - OHS BHC approximately 3,400 SF
  - Prep flooring as specified and required by manufacturer to validate warranty coverage
  - Provide and install new vinyl cover base
  - Provide and install Kinetex tile with Kinetex adhesive with a lifetime manufacturer's material warranty
  - Provide and install Luxury Vinyl Tile (LVT) and adhesive with a 10 year manufacturer's material warranty
  - o Provide and install walk-off carpet tile and adhesive with a lifetime manufacturer's material warranty
  - Provide choice among a variety of standard colors for District approval
  - Include ACM abatement as necessary
  - Exclude removal and replacement of District property, furniture, and equipment from renovated spaces



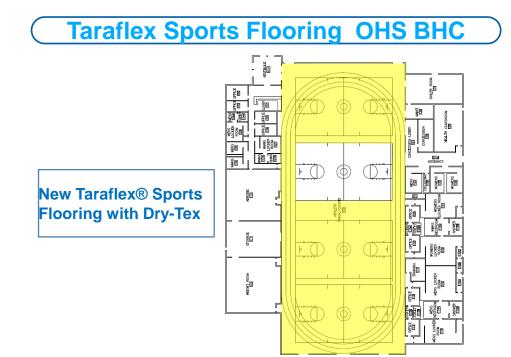




School(s):	OHS
Category:	Sports Flooring Replacement
H/LS Item #(s):	OHS-29

ENGIE Services U.S. will:

- Applicable rooms (areas indicated below)
  - OHS BHC Gym
- Demo, remove, and properly dispose of existing synthetic sports flooring, approximately 23,000 SF
- Provide and install new Taraflex® Sports Flooring in the areas indicated, including a fifteen (15)-year manufacturer's material warranty
- Provide and install new Dry-Tex Moisture Mitigation Sports Flooring Adhesive in the areas indicated, including fifteen (15)-year manufacturer's material warranty
- Provide choice among a variety of standard Sports Flooring colors for District approval
- Provide and install standard Sports Flooring Game Line Paints for District approval
- Exclude removal and replacement of District property, furniture, and equipment from renovated spaces
- Exclude logo painting
- Exclude ACM abatement



# **PRESS BOX + ATHLETIC REPAIRS**

School(s):	OHS
Category:	Miscellaneous Repairs
H/LS Item #(s):	OHS-26, OHS-30, OHS-35

#### **ENGIE Services U.S. will:**

0

0

0

0

- Audio System Repairs .
  - Applicable rooms: 0
    - BHC Main Gym Floor
  - Remove and properly dispose of four (4) existing MSE Soundsphere pendant loudspeakers hung 0 from roof decking
    - Provide and install four (4) new MSE Soundsphere Model # Q-12AWR loudspeakers
      - Connect to existing audio/amplifier/mixing electronics
        - Reuse existing support cabling
        - Reuse existing audio wire
  - Include speaker replacements only
- Non-Powered Operable Divider Wall Replacement
  - Applicable rooms:
    - BHC Main Gym Floor
  - Remove and properly dispose of the existing divider curtain approximately 115 linear feet from 0 East to West walls of the main gym
  - Cut back drywall to access existing track system 0
  - Remove and replace existing track system, including storage track sections along East and West 0 walls
  - Restore drywall ceiling, patch, and finish to match existing drywall 0
    - Provide and install new non-powered divider curtain panels, including rolling trolleys (in track)
      - Include new Modernfold 931 one-piece operable wall panels including expandable closure, unitized welded steel skins, and IC-2 crank down seals
      - Include two (2) matching pass-through doors, covered in vinyl
      - Provide choice among a variety of standard colors for District approval
- Hydraulic Basketball Hoop and Divider Curtain Operators
  - Applicable rooms:
    - OHS Gvm
    - -BHC – Main Gym
  - OHS Gym 0
    - Remove and properly dispose of the six (6) hydraulic motors, tubing, and pistons that operate the existing basketball hoop structures
    - Main Court Provide and install two (2) new main-court basketball hoop structures .
      - Include new ceiling-suspended backstops

- Include new 42" glass backboard with bolt-on safety padding and breakaway rims
- Include new electric winch and cabling system to raise/lower hoop structure
- Include digital control station
- Include structural reinforcements to support new assembly
- Cross Courts Retrofit four (4) existing cross-court basketball hoop structures
  - Include new electric hoist motor, cabling, pulleys, and safety straps
    - Include new key switches
  - Leave existing hoop structures, backboards, and rims in service
- BHC Main Gym
  - Remove and properly dispose of the thirteen (13) hydraulic lift systems that operate the existing basketball hoop structures and baseball cages.
  - Retrofit eleven (11) existing basketball hoop structures
    - Include new electric hoist motor, cabling, pulleys, and safety straps
    - Include new key switches
    - Leave existing hoop structures, backboards, and rims in service
    - Retrofit two (2) existing baseball cage curtains
      - Include new electric hoist motor, cabling, pulleys, and safety straps
      - Include new key switches
  - Leave existing cages/netting and mechanical systems/drives in service
- o Provide electrical service modifications to accommodate new electrical winches as necessary
- Include floor protection as necessary

School(s):	OHS
Category:	Athletic Surface Repair
H/LS Item #(s):	OHS-43

ENGIE Services U.S. will:

- Applicable areas:
  - OHS Athletic Facilities Track Surface
  - OHS Athletic Facilities Field Services Areas
  - Existing surface is the Athletic Field Services AFS-400 Surface on the track oval
  - Existing surface is the Athletic Field Services Seal-Flex LR6 Surface on the long jump surface
  - Existing surface is the Athletic Field Services Seal-Flex LR2 Surface on the high jump and pole vault surfaces
- Prepare the track oval and field services areas (long jump, high jump, and pole vault areas) as specified by the
  manufacturer
- Provide and install Beynon 160 waterbourne polyurethane structural spray as specified by the manufacturer
- Repaint all lane lines and athletic markings to match existing
- Exclude other painting

School(s):	OHS
Category:	Renovation
H/LS Item #(s):	OHS-51

ENGIE Services U.S. will:

- Replace Press Box
  - Applicable rooms:
    - OHS Athletic Facilities East Press Box (Football Field)
- Develop ENGIE Services U.S.-led design development process as outlined below as starting point for District approval
  - o Demo, remove, and properly dispose of existing structure
  - Reuse existing concrete foundation and slab for new Press Box with footprint to match existing
     Construct replacement of deteriorated East Press Box
    - Overall height of new structure to match existing structure
    - Include 2-stories with crow's nest/platform for videographer/photographer
    - Include deck/platform for entry from top of existing bleachers
    - Include elevated platform on exterior deck/platform or roof for play-by-play/coach
      - Include opening for viewing, plastic laminate desk/workspace, seating, and receptacles at desk height
    - Include spiral staircase to access 2<sup>nd</sup> floor from 1st floor storage area
      - Provide and install wood-framed construction
        - Include fiber cement siding with a choice among standard colors for District approval
        - Include asphalt 3-tab shingle roof
        - Include plywood floor and walls as interior finish
        - Include 1<sup>st</sup> floor single leaf door for entry
        - Include 1<sup>st</sup> floor manual garage overhead door for storage entry

- Exclude insulation on lower level
- Exclude interior painting
- Electrical
  - Reuse existing electrical service
    - Provide and install new electrical panel and connect to existing service feed
  - 1<sup>st</sup> Floor
    - Include basic LED illumination
    - o Include illumination controls as necessary per code
    - Include four (4) GFCI electrical receptacles
    - o Include new exterior wallpak at entry/overhead door
  - 2<sup>nd</sup> Floor
    - Include basic LED illumination
    - o Include illumination controls as necessary per code
    - Include eight (8) GFCI electrical receptacles
    - Include four (4) empty conduits, rough-in, which are sized to
    - accommodate low voltage wiring, for future use
    - Include one (1) electric unit heater including necessary power wiring

# SECURITY CORRIDOR

School(s):	District
Category:	Renovation
H/LS Item #(s):	DO-1

#### ENGIE Services U.S. will:

Applicable areas

0

- District (Administration Building)
- Develop ENGIE Services U.S.-led design development process as outlined in preliminary plans below as starting point for District approval
- Demo, remove, and properly dispose of existing slabs, footers, sidewalks, and building as necessary to accommodate new areas
- Replace materials and equipment:
  - Include wood-frame construction
  - Include brick veneer exterior walls
  - o Include Main Level of approximately (not to exceed) 2,986 gross SF to include:
    - Entry Vestibule
      - Open Reception Area for two (2) staff members
      - Private Superintendent office for one (1) staff member which can accommodate four (4) visitors
      - Private Assistant Superintendent office for one (1) staff member
      - Private Bookkeeper Office for one (1) staff member
      - Technology Office for two (2) staff members
      - Work Room
      - Kitchenette without seating
      - Two private (male and female) single occupant restrooms
      - Conference Room
      - Partial basement of approximately (not to exceed) 875 gross SF including:
        - Open Storage
        - Server Room
        - Include slab-on grade for remaining footprint of building (approximately 2,111 SF)
    - Provide and install fire protection systems per code requirement
  - Provide and install electrical power
  - Provide and install energy-efficient LED illumination to meet IESNA standards including:
    - Interior LED illumination
      - Lighting controls as required per energy efficiency code
      - Exterior LED wall packs
      - Include illumination with a five (5)-year manufacturer's warranty against LED mechanical defects and a ten (10)-year manufacturer's projected LED life
      - Include illumination controls with a five (5)-year manufacturer's warranty against mechanical defects
    - mechanical defects
  - Provide and install new heating systems in these areas:
    - Main District Office Area
      - One (1) Variable Air Volume Rooftop Unit (Trane Precedent YZC090 or equal)
        - 7.5 Ton Unit
          - Natural Gas Primary Heat
          - o Include ten (10) VAV Terminal Units with Electric ReheatSpace
      - thermostats Conference Room Area

- One (1) Single Zone VAV Rooftop Unit (Trane Precedent YZC036 or equivalent)
  - 3 Ton Unit 0
  - Natural Gas Primary Heat 0
- Basement Server Room Area
  - One (1) Mini-Split System
    - 18,000 BTU/Hr Cooling Capacity 0
    - Indoor ceiling cassette 0
    - Condensing unit located on roof 0
- Entry Vestibule Area ٠
  - One (1) recessed ceiling electric unit heater
    - Qmark EFF4004 or equal 0
- Inclusions/Exclusions

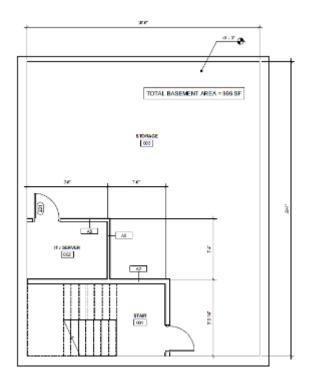
0

0

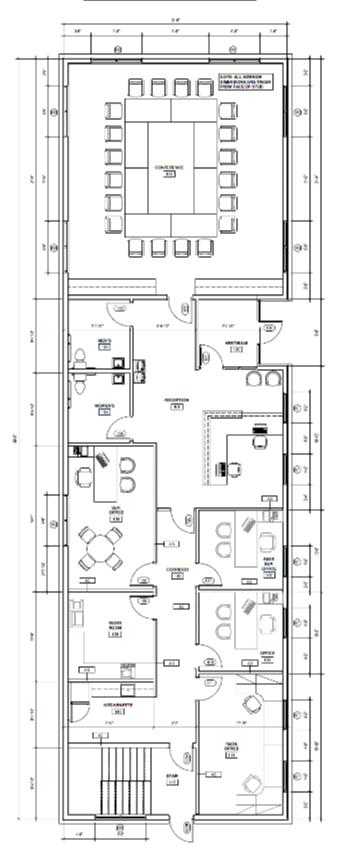
0

- Include roughed in conduit (including pull tape) from the basement to each room by running through 0 the attic/plenum or in-slab
  - Applicable to slab-on-grade areas .
  - Include under-floor access for approximately 30% of Main Level
- 0 Applicable to area of included basement .
- Include only mimimum sidewalk and pavement modifications/repairs as necessary 0
  - Reuse existing sidewalks and pavement .
  - Reuse existing utility services (electric, gas, and water/sewer)
  - Exclude increasing capacity of existing utility services
- Include landscape restoration 0
- Exclude additional landscaping
  - Include all fixed furniture (reception desk), casework, cabinetry, and countertops
    - Include plastic laminate with edge banding for cabinetry and casework. Provide choice among a variety of standard colors for District approval
    - District to provide and install all movable/removable; including furniture, desks, chairs, filing . cabinets, conference tables, credenzas, appliances, etc.
- Include low voltage cabling 0
  - District to provide and install all networking equipment (servers, computers, monitors, power supplies, equipment racks, etc)
  - Include electric strikes on all exterior doors and frames for future use by District
  - Exclude Access Control + Video Surveillance Systems

## PARTIAL BASEMENT PRELIMINARY PLAN



### MAIN LEVEL PRELIMINARY PLAN



# **CPTED TRAFFIC CALMING**

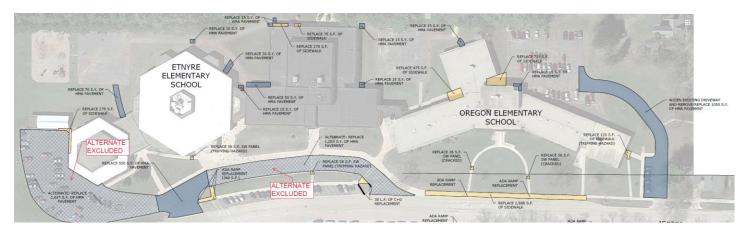
School(s):	OES + OHS
Category:	Concrete + Pavement Repair + Replacement
H/LS Item #(s):	OES-31, OES-32, OES-37, OHS-21, OHS-44, OHS-45, OHS-46, OHS-48, OHS-52

ENGIE Services U.S. will:

•

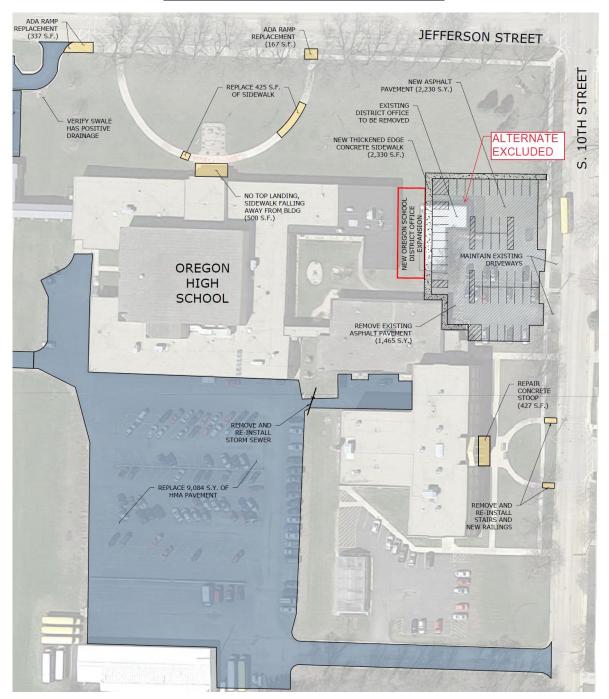
- Applicable areas:
  - OES Etnyre section between Etnyre West parking lot and front drive
  - OES Jefferson -East parking lot and drive to rear lot
  - Develop designs as outlined in the preliminary plans below to repair and/or replace pavement and/or sidewalks as detailed in Quantities and Preliminary Plans below

## OES CPTED TRAFFIC CALMING PRELIMINARY PLAN



### **OES CPTED TRAFFIC CALMING – QUANTITIES**

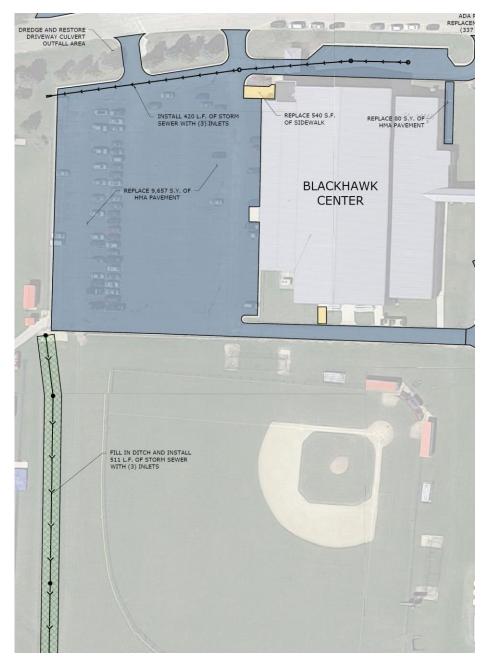
Description	Quantity	Unit
Sidewalk Removal	5,386	SF
5" PCC Sidewalk / 4" Agg Base	5,386	SF
HMA Pavement Removal / Grade and Shape Base	1,550	SY
HMA Binder Course (2.5")	225	TON
HMA Surface Course (1.5")	130	TON
Undercut, 20% of Pavement Area	310	CY
Striping, 4"	200	FT
Curb and Gutter Removal	30	FT
M-6.18 Concrete Curb and Gutter	30	FT



#### OHS CPTED TRAFFIC CALMING - PRELIMINARY PLAN

## OHS CPTED TRAFFIC CALMING – QUANTITY

Description	Quantity	Unit	
Stoop Removal	427	SF	
New Stoop	427	SF	
Remove and Re-Install Concrete Stairs including Railings	2	LS	
HMA Pavement Removal / Grade and Shape Base	10227	SY	
HMA Binder Course (2.5")	1450	TON	
HMA Surface Course (1.5")	900	TON	
Undercut, 20% of Pavement Area	2045	CY	
Striping, 4"	3500	FT	
Remove and Re-install Storm Sewer	1	LS	
BHC CPTED TRAFFIC CALMING – PRELIMINARY PLAN			



### BHC CPTED TRAFFIC CALMING - QUANTITY

Description	Quantity	Unit
Sidewalk Removal	2,000	SF
5" PCC Sidewalk / 4" Agg Base	2,000	SF
HMA Pavement Removal / Grade and Shape Base	9,657	SY
HMA Binder Course (2.5")	1,352	TON
HMA Surface Course (1.5")	811	TON
Undercut, 20% of Pavement Area	1,931	CY
Striping, 4"	5,000	FT
Inlet, Type A	3	EACH
Inlet, Type B	3	EACH
Flared End Section, 12"	1	EACH
12" HDPE Storm Sewer	931	EACH
Dredge and Restore Driveway Culvert Outfall Area	1	SUM

# INTEGRATED DIGITAL SOLUTIONS: SURVEILLANCE + CONTROLLED ACCESS AND INTEGRATED DIGITAL SOLUTIONS: SAFETY COMMUNICATIONS + DIGITAL TIME MANAGEMENT

School(s):OES + OHSCategory:Integrated Digital SolutionsH/LS Item #(s):OES-22, OES-23, OES-24, OHS-40, OHS-41, OHS-42

ENGIE Services U.S. will:

0

٠

- Applicable areas:
  - OES Entire School
  - $\circ \qquad {\sf OHS-Entire\ School\ and\ BHC}$
- Develop design as outlined below to upgrade and expand the following systems:
  - District to provide network switches
  - o Include surface mounting in wire mold for any cabling to be installed where hard ceilings are located
  - Access Control System
    - Provide and install Avigilon Card Access System to replace the existing system in the location and quantites detailed below
    - Include exposed wire mold to conceal wiring to electronic door hardware for all doors with filled frames
  - Video Surveillance System
    - Provide and install Avigilon Video Surveillance System to replace the existing system
      - OES
        - Include cameras, cabling, raceways (where required), mounts, and decoders necessary for a fully functional system
        - Include Forty-Three (43) total cameras
          - Thirty-two (32) interior cameras
          - Eleven (11) exterior cameras
      - OHS OHS and BHC

0

- Include cameras, cabling, raceways (where required), mounts, and decoders necessary for a fully functional system
  - Include seventy-one (71) total cameras
    - Fifty-five (55) interior cameras
    - Sixteen (16) exterior cameras
    - Avigilon 157 terabyte (TB) rack mounted server
    - Two (2) Avigilon small form-factor pluggable (SFP) transceivers
- Locations detailed below
- Clock/Intercom/Public Address (PA) System
  - Provide and install AtlasIED clock intercom system to replace the existing system
    - Include internet protocol (IP) clocks, cabling, raceways (where required), mounts, amplifier,
    - speakers, software, licensing, and controllers necessary for a fully functional system OES Etnyre
      - Include thirty-nine (39) clock speakers
        - Thirty-six (36) single-sided clock speakers, liquid crystal display (LCD) with Flasher
        - Three (3) double-sided clock speakers
        - Include twenty-four (24) PA speakers
          - Seventeen (17) indoor surface speakers
          - Seven (7) exterior speakers
      - Include one (1) gooseneck microphone (mic) station
    - OES Center

.

- Include twenty-seven (27) total clock speakers
  - Twenty-three (23) single-sided clock speakers, LCD with Flasher
- Four (4) double-sided clock speakers
- Include twenty (20) PA speakers
  - Fourteen (14) indoor surface speakers
  - Five (5) exterior speakers
  - One (1) kitchen horn speaker
  - Include one (1) gooseneck mic station
- OES Jefferson
  - Include thirty-seven (37) total clock speakers
    - Thirty-four (34) single-sided clock speakers, LCD with Flasher
    - Three (3) double-sided clock speakers
  - Include nineteen (19) PA speakers
    - Eleven (11) indoor surface speakers
    - Five (5) exterior speakers
    - Three (3) kitchen horn speakers

- Include one (1) gooseneck mic station
- OHS OHS and BHC

٠

.

٠

.

.

- Include ninety-five (95) total clock speakers
  - Eighty-five (85) single-sided clock speakers, LCD with flasher
     Ten (10) double-sided clock speakers
  - Include Thirty-Nine (39) PA speakers
    - Twenty (20) indoor surface speakers
      - Eleven (11) exterior speakers
      - Eight (8) kitchen horn speakers
- Include two (2) 100-watt loudspeakers, amplifier, and IP gateway for football pressbox
  - Existing network connection to be used at Press Box for new IP
  - gateway
- Include one (1) gooseneck mic station
- Include new 12-strand fiber to BHC
- Locations as detailed in building layouts below

#### **OES ETNYRE – ACCESS CONTROL QUANTITY**

Qty	Unit	Scope of Work	
3	ea	Re-work existing Card Access door cables	
3	ea	Install replacement Card Readers	
1	ea	Install Cabling to new Door	
1	ea	Install Card Reader at New Door	
2	ea	Install DPS at New Door	
1	ea	Trim to LOCK (Lock EXCLUDED, by others)	
1	ea	Install 4 door controller panel	
	ea	install 2 door controller panel	
4	ea	Test doors	
Qty	Unit	Equipment & Material Description	Part#
Qty 3	Unit ea	Equipment & Material Description Series 3 two reader interface module	Part# AC-MER-CON-MR52
-			
-	ea	Series 3 two reader interface module	AC-MER-CON-MR52
-	ea ea	Series 3 two reader interface module Intelligent Controller	AC-MER-CON-MR52 AC-MER-CONT-LP1502
3 1 1	ea ea ea	Series 3 two reader interface module Intelligent Controller 4 Door Mercury Dual Voltage Power System	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-4DR-MER-LCK
3 1 1 4	ea ea ea	Series 3 two reader interface module Intelligent Controller 4 Door Mercury Dual Voltage Power System Schlage 13.56 MHz Mini Mullion Smart Reader	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-4DR-MER-LCK AC-ING-READ-APTIQ-MINI-SM10
3 1 1 4	ea ea ea ea	Series 3 two reader interface module Intelligent Controller 4 Door Mercury Dual Voltage Power System Schlage 13.56 MHz Mini Mullion Smart Reader MIFARE Smart Cards	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-4DR-MER-LCK AC-ING-READ-APTIQ-MINI-SM10
3 1 1 4	ea ea ea ea m	Series 3 two reader interface module Intelligent Controller 4 Door Mercury Dual Voltage Power System Schlage 13.56 MHz Mini Mullion Smart Reader MIFARE Smart Cards 6 cond 22 awg	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-4DR-MER-LCK AC-ING-READ-APTIQ-MINI-SM10

#### **OES CENTER – ACCESS CONTROL QUANTITY**

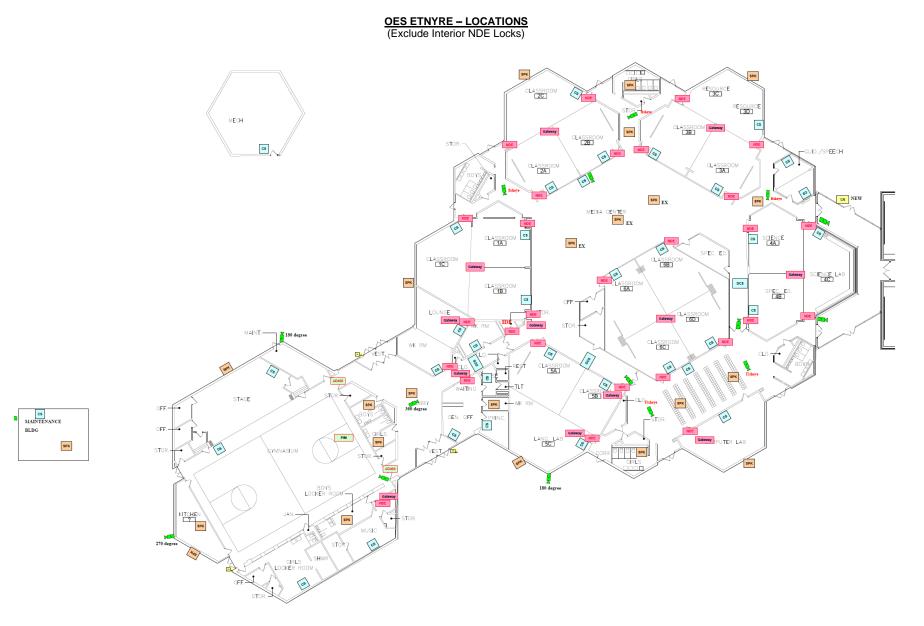
Qty	Unit	Scope of Work	
6	ea	Re-work existing Card Access door cables	
6	ea	Install replacement Card Readers	
1	ea	Install Cabling to new Door	
1	ea	Install Card Reader at New Door	
1	ea	Install DPS at New Door	
1	ea	Trim to LOCK (Lock EXCLUDED, by others)	
1	ea	Install 8 door controller panel	
	ea	install 2 door controller panel	
7	ea	Test doors	
Qty	Unit	Equipment & Material Description	Part#
3	ea	Series 3 two reader interface module	AC-MER-CON-MR52
1	ea	Intelligent Controller	AC-MER-CONT-LP1502
1	ea	8 Door Mercury Dual Voltage Power System	AC-LSP-8DR-MER-LCK
7	ea	Schlage 13.56 MHz Mini Mullion Smart Reader	AC-ING-READ-APTIQ-MINI-SM10
100	ea	MIFARE Smart Cards	AC-ING-CARD-APTIQ-XF9420
1	m	6 cond 22 awg	
1 1	m m	6 cond 22 awg 2 cond 22 awg	

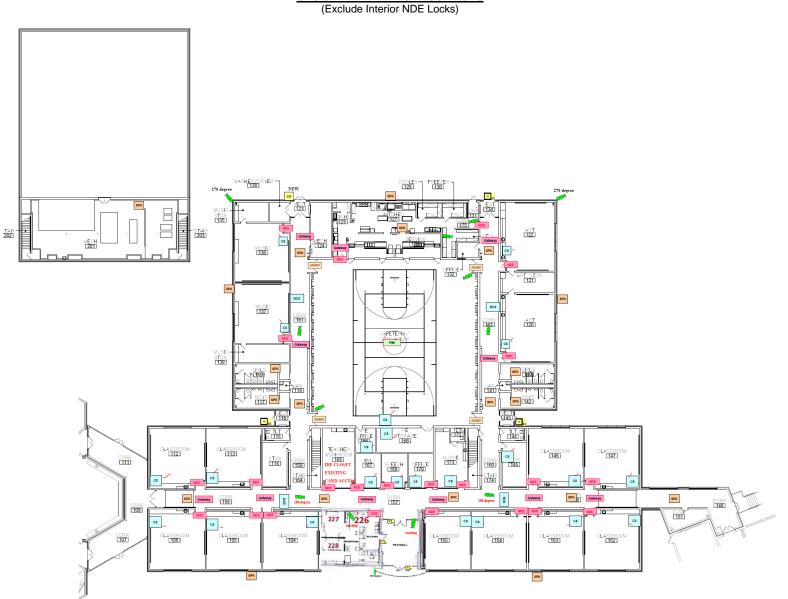
## OES JEFFERSON - ACCESS CONTROL QUANTITY

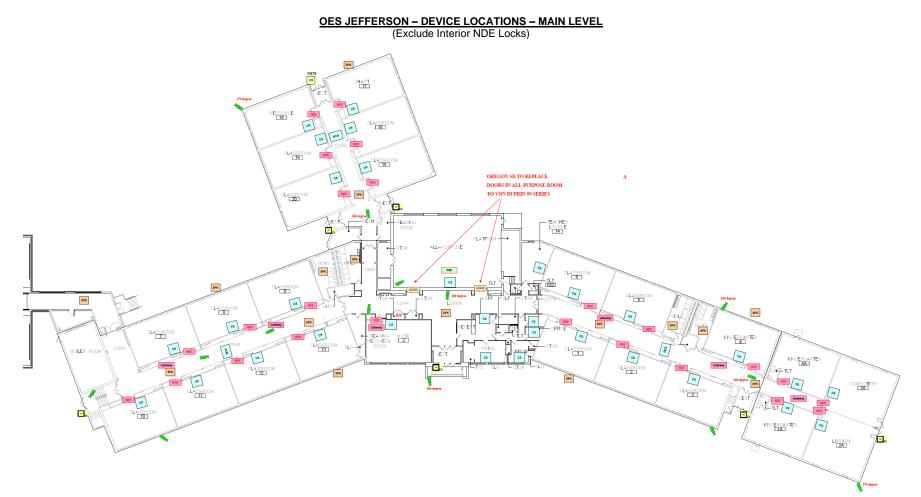
Qty	Unit	Scope of Work	
6	ea	Re-work existing Card Access door cables	
6	ea	Install replacement Card Readers	
1	ea	Install Cabling to new Door	
1	ea	Install Card Reader at New Door	
1	ea	Install DPS at New Door	
1	ea	Trim to LOCK (Lock EXCLUDED, by others)	
1	ea	Install 8 door controller panel	
	ea	install 2 door controller panel	
7	ea	Test doors	
0		Equipment 8 Metaviel Description	D
Qty	Unit	Equipment & Material Description	Part#
3	ea	Series 3 two reader interface module	AC-MER-CON-MR52
	ea	Series 3 two reader interface module	AC-MER-CON-MR52
	ea ea	Series 3 two reader interface module Intelligent Controller	AC-MER-CON-MR52 AC-MER-CONT-LP1502
3 1 1	ea ea	Series 3 two reader interface module Intelligent Controller 8 Door Mercury Dual Voltage Power System	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-8DR-MER-LCK
3 1 1 7	ea ea ea	Series 3 two reader interface module Intelligent Controller 8 Door Mercury Dual Voltage Power System Schlage 13.56 MHz Mini Mullion Smart Reader	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-8DR-MER-LCK AC-ING-READ-APTIQ-MINI-SM10
3 1 1 7 100	ea ea ea ea	Series 3 two reader interface module Intelligent Controller 8 Door Mercury Dual Voltage Power System Schlage 13.56 MHz Mini Mullion Smart Reader MIFARE Smart Cards	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-8DR-MER-LCK AC-ING-READ-APTIQ-MINI-SM10
3 1 1 7 100	ea ea ea ea m	Series 3 two reader interface module Intelligent Controller 8 Door Mercury Dual Voltage Power System Schlage 13.56 MHz Mini Mullion Smart Reader MIFARE Smart Cards 6 cond 22 awg	AC-MER-CON-MR52 AC-MER-CONT-LP1502 AC-LSP-8DR-MER-LCK AC-ING-READ-APTIQ-MINI-SM10

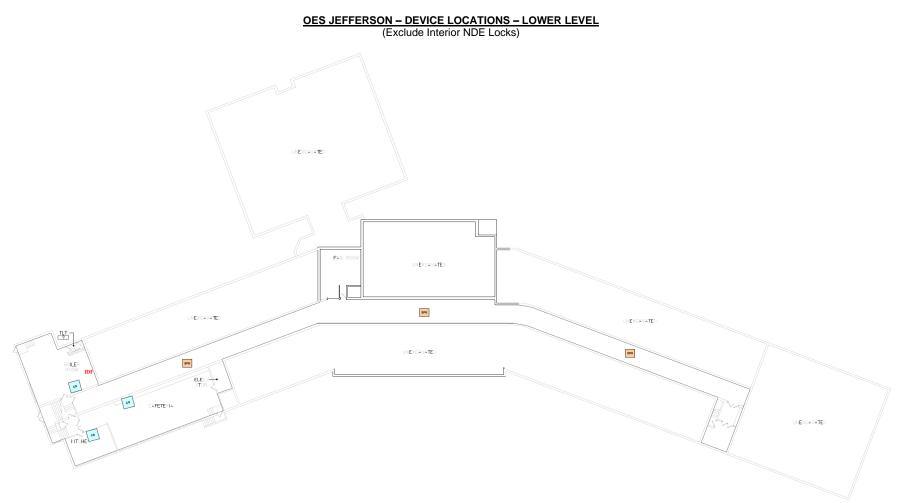
## OHS + BHC - ACCESS CONTROL QUANTITY

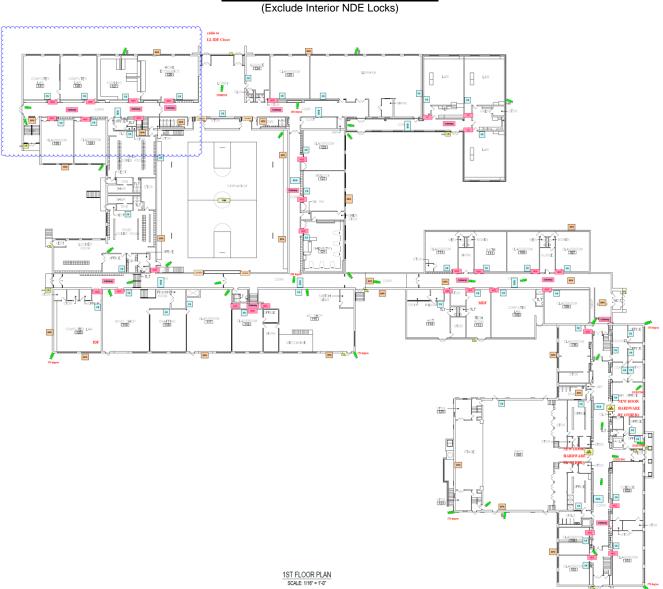
Qty	Unit	Scope of Work	
14	ea	Re-work existing Card Access door cables	
14	ea	Install replacement Card Readers	
5	ea	Install Cabling to new Door	
5	ea	Install Card Reader at New Door	
5	ea	Install DPS at New Door	
5	ea	Trim to LOCK (Lock EXCLUDED, by others)	
2	ea	Install 8 door controller panel	
1	ea	install 2 door controller panel	
1	ea	Install 4 Door Controller Panel	
19	ea	Test doors	
Qty	Unit	Equipment & Material Description	Part#
1	ea	Access Control Manager	AC-SW-16R-VM-6-P
3	ea	Access Control Manager 16 reader License	AC-SW-LICE-16RCU-6-P
1	ea	LDAP Directory Software	AC-SW-LIC-LDAP-6-P
7	ea	Series 3 two reader interface module	AC-MER-CON-MR52
4	ea	Intelligent Controller	AC-MER-CONT-LP1502
2	ea	8 Door Mercury Dual Voltage Power System	AC-LSP-8DR-MER-LCK
2	ea	4 Door Mercury Dual Voltage Power System	AC-LSP-4DR-MER-LCK
19	ea	Schlage 13.56 MHz Mini Mullion Smart Reader	AC-ING-READ-APTIQ-MINI-SM10
100	ea	MIFARE Smart Cards	AC-ING-CARD-APTIQ-XF9420
3	m	6 cond 22 awg	
3	m	2 cond 22 awg	
3	m	4 cond 22 awg	
3	m	2 cond 18 awg	











## OHS – DEVICE LOCATIONS – 2ND FLOOR (Exclude Interior NDE Locks) 120 207 <u>ilili</u>. S BEK E ca 2061 PPER BAND 205 WRESTLING UPPER GYMNASIUM Ŧ 204 203

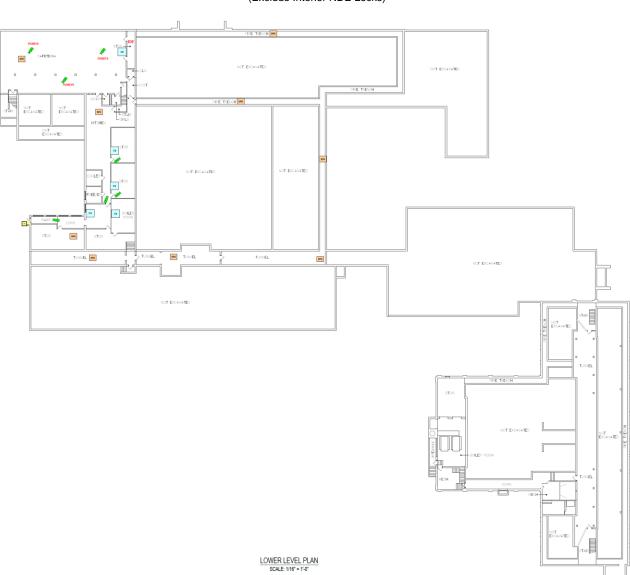
È٩.

ал <sub>месн</sub>

L-201

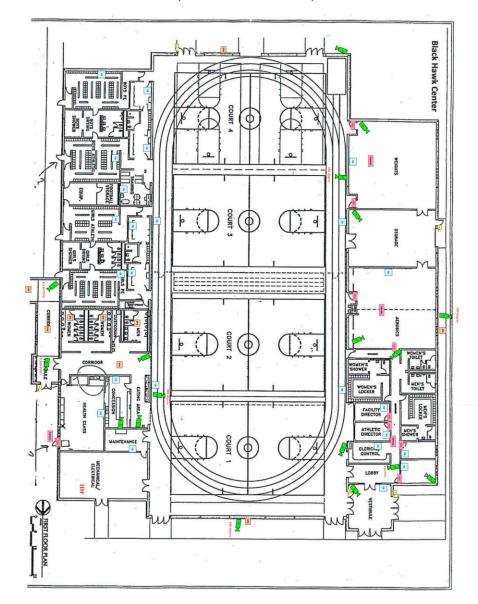
202

#### Amendment to ESC



OHS – DEVICE LOCATIONS – LOWER LEVEL (Exclude Interior NDE Locks)

### OHS – DEVICE LOCATIONS – BHC (Exclude Interior NDE Locks)



## INTEGRATED DIGITAL SOLUTIONS: FIRE PROTECTION

School(s):	OES, DLR, + OHS
Category:	Integrated Digital Solutions
H/LS Item #(s):	OES-1, DLR-1, OHS-1, OHS-2, OHS-4, OHS-7

#### ENGIE Services U.S. will:

Install Fire Detector

0

0

0

0

- Applicable rooms:
  - OES Etnyre 392, Custodial (Old Nurse)
  - OES Jefferson 141, Stage
  - DLR Stor 102, Stor 006, Stor 005, Stor 007
  - OHS Storage 201, Storage 107, Auditorium, Stage, Storage 137A, Cafeteria, Storage off Kitchen
  - Provide and install new fire detector in Applicable rooms where required
  - Connect new fire alarm device to existing building fire alarm system
  - Exclude new expansion modules
- Install Fire Alarm Pull Station
  - Applicable rooms:
    - OHS Room 132
  - Provide and install a new fire alarm pull station in Applicable rooms where required
    - Connect new fire alarm device to existing building fire alarm system
      - Exclude new expansion modules
- Fire Door Hold-Open Device
  - Applicable rooms:
    - OHS Corridor Doors leading from 1960 Addition to BHC
    - Remove and properly dispose of existing fire doors' manual hold-open devices
  - Provide and install new floor-mounted magnetic hold-open devices
  - Integrate new hold-open devices into existing fire door holder circuitry to release doors when an alarm is activated in either the OHC or BHC Fire Alarm Systems
  - Fire Alarm Panel Integration
  - -ire Alarm Panel Integration
    - Applicable rooms:
      - OHS Existing Fire Alarm System Panel
      - BHC Existing Fire Alarm System Panel
    - Existing Fire Alarm Panels for these 2 buildings currently do not interface
    - o Provide and install new communications cabling between the two fire alarm panels
    - Configure/Modify both of the existing fire alarm panels to receive an alarm signal from the other panel. Alarm systems, upon alarm notification, to alert a fire alarm condition at all fire alarm panels
    - Include trouble and supervisory alarms in fire alarm panel integration

## ELECTRICAL, ILLUMINATION, + CONSERVATION

School(s):OES, DLR, + OHSCategory:Emergency/Egress LightingH/LS Item #(s):OES-2, OES-4, OES-5, DLR-2, DLR-3, DLR-4, DLR-5, OHS-3, OHS-5, OHS-6

#### ENGIE Services U.S. will:

- Install New Emergency Light
  - Applicable rooms:
    - OES Etnyre Toilet Rooms(6), 344, 343, 342, 321, 323, 322, 301, 303, 302, 300, 311,312, 313, 353, 354, 336, 337, 330, 331, 333, 355
    - OES Jefferson Girls Toilet Room(Jefferson), 120
    - DLR Stair by Gym, Lower Level Toilet Rooms, 1st and 2nd Floor Toilet Rooms, Nurse, First Floor Stairs, Conf 113, Concession, South Side of Cafeteria, Boys and Girls Locker Room Toilet and Showers, Lower Level Staff Toilet Rooms, Comfort 008
    - OHS 2nd Floor Boys and Girls, 116, 114, Boys and Girls by Band, Nurse, 127
  - Provide and install new emergency lighting for Applicable rooms identified above where required
    - Include new battery back-up emergency lighting feature to existing lighting fixture
      - Provide illumination with a minimum run-time of 90-minutes
- Replace Existing Emergency Light
  - Applicable rooms:
    - OES Center 235, Kitchen, West Exit from Jefferson
    - DLR NW Doors in Gym
    - Remove and properly dispose of existing non-functional fixtures

- Provide and install new emergency lighting for four (4) Applicable rooms
  - Include new battery back-up emergency feature to existing lighting fixture
  - Provide illumination with a minimum run-time of 90-minutes
  - Disconnect and reconnect to existing electrical circuit
- Install New Exit Sign

0

0

0

0

- Applicable rooms:
  - OES Etnyre Library
  - DLR Cafeteria
  - OHS 130, Boys Locker Room, Corridor Leading to BHC
  - Provide and install new exit sign for applicable rooms identified above where required
    - Include new battery back-up for exit sign
    - Include extending existing emergency lighting circuit to provide power for new exit sign
    - Provide illumination with a minimum run-time of 90-minutes
- Replace Existing Exit Sign
  - Applicable rooms:
    - OHS Corridors, 130, 133, Locker Rooms, Gym, Cafeteria
    - Remove and properly dispose of existing non-functional fixtures
    - o Provide and install new emergency exit sign for twenty (20) locations where required
      - Include new battery back-up emergency lighting for existing lighting system
        - Provide illumination with a minimum run-time of 90-minutes
        - Disconnect and reconnect to existing electrical circuit
- Remove Existing Exit Sign
  - Applicable rooms:
    - DLR Cafeteria
  - Remove and properly dispose of existing exit signs in two (2) locations where exit is not utilized Patch finishes (wall/ceiling) to match existing
    - Demo existing electrical circuit to the nearest location as permitted by code
    - Demo existing electrical circuit to the hearest location as permitted by code

School(s):	OES + OHS
Category:	Lighting System Repairs
H/LS Item #(s):	OES-15, OHS-18

#### **ENGIE Services U.S. will:**

- Replace inoperable light fixtures
  - Applicable rooms:
    - OES Etnyre Rm 361
    - OES Jefferson Rm 134
    - OHS Second Floor Girls Toilet Room
  - Provide and install new LED lighting fixtures for Applicable rooms identified above where existing fixtures are inoperable
    - Include new illumination to meet or exceed existing lighting levels of Applicable rooms
      - Include new lighting controls as required by energy efficiency code

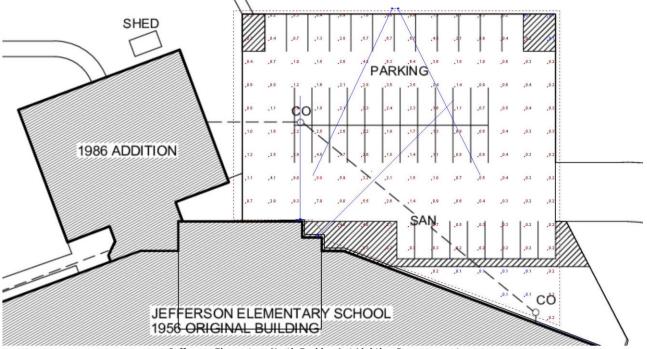
School(s):	OES
Category:	Site Lighting
H/LS Item #(s):	OES-33

ENGIE Services U.S. will:

0

- Provide and Install New Exterior LED Illumination to the NE Rear Parking Lot behind OES Jefferson
  - One new site lighting pole centered along north edge of parking lot
    - Provide and install (onto pole) two new fixtures + mounting arms
      - Includes two (2) new 125-Watt, 18500 lumen flood light fixtures
    - Include photocells
    - Provide and install pole base in grass area
    - Trench around the paved area to minimize pavement disturbance for underground electric utilities
    - Connect to existing exterior electrical circuit closest to the area for power
    - Restore any disturbed earth to original condition
    - Two new building-mounted fixtures high on exterior wall outside the Multipurpose Room
      - Connect to an existing exterior electrical circuit closest to the area for power
      - Includes two (2) new 125-Watt, 18500 lumen flood light fixtures

#### **OES JEFFERSON – SITE LIGHTING PHOTOMETRICS**



Jefferson Elementary North Parking Lot Lighting Improvements

Symbol	Label	QTY	Number Lamps	Lumens per Lamp		Wattage
	Flood 125w 18500lm	2	1	18439	0.9	137.725
8.8	Flood 125w 18500lm ×2	1	1	18439	0.9	275.45

cription	Symbol	Avg	Max	Min	Max/Min	Avg/Min
arking Lot	+	1.6 fc	9.9 fc	0.1 fc	99.0:1	16.0:1

Desi NE P

School(s):	OES
Category:	Energy Efficient Illumination
H/LS Item #(s):	OES-36, OHS-56

#### ENGIE Services U.S. will:

0

- L1 Provide and install new interior LED fixtures and lamps to replace existing fluorescent fixtures and lamps
   Remove and properly dispose of existing
  - Include new interior lighting for all existing non-LED light fixtures and lamps listed in these four categories:
    - L1a Replace existing troffer, recessed downlight, vapor tight, and wrap fixtures with new LED fixtures
    - L1b Replace existing linear fluorescent high bay fixtures with new LED high bays
    - L1c Replace existing fluorescent lamps and ballast with new LED tube lamps
    - L1d Replace existing incandescent, halogen, and compact fluorescent A-lamp, PAR, or BR lamps with new LED screw-in base lamps
  - Exclude these areas:
    - All interior areas with existing LED fixtures
      - All interior areas with new illumination as specified in other areas of this addendum
    - EES Gym, OHS Kitchen + Storage, Tunnels, + Closets
- L2 Provide and install new interior illumination controls to automatically turn lights off at a pre-set and fieldadjustable time frame after the last motion is detected
  - Include new occupancy/vacancy sensors in all areas that do not currently have sensors
    - Include new controls in these four categories:
      - L2a Install new ceiling-mounted sensor
      - L2b Replace existing wall switch and cover plate with new wall switch sensor
      - L2c Install new LED fixture with fixture-integrated or factory-installed sensor

- L2d Install new LED fixture with fixture-integrated dimming photocell to control the row of lights that is nearest to the window
- Exclude these areas:
  - All interior areas excluded from L1 above
  - Mechanical/Electrical Rooms
  - Vestibules
  - Storage rooms less than 300 SF
  - Task Lighting
  - Emergency Lighting
  - Night Lights 24/7 on lighting circuits
- EL Provide and install new emergency/exit/egress illumination
  - Include illumination in these four categories:
    - EL1 Install new LED exit signs. Replace existing non-LED exit signs and install new LED exit signs in locations specified by the H/LS report
    - EL2 Install new wall-mounted LED battery-backup emergency lights. Replace existing non-LED wall-mounted emergency lights and install new LED wall-mounted emergency lights in locations specified by H/LS report
    - EL3 Install new battery backup LED emergency light within new LED fixture. Connect to existing 24/7-on lighting circuit
    - EL4 Install new battery backup LED outdoor emergency egress light at all locations specified by the H/LS report. Connect to existing 24/7-on lighting circuit
  - o Exclude all other areas

#### ENERGY EFFICIENT ILLUMINATION – SUMMARY TABLE

Lighting								
Upgrade #	Lighting Upgrade Description	OHS	ETNYRE	CENTER	JEFFERSON	BHC	BUS GARAGE	DISTRICT
L1a	New LED Downlight, Troffer, Vaportight, Wrap Fixtures	594	155	225	382	65	5	
L1b	New LED High Bay Fixtures	34		24		124		
L1c	New LED Tube Retrofit	161	502	135	57	254		49
L1d	New LED Screw-in Lamps	26	16	8	9	8		5
L2a	New Lighting Controls - Occupancy/Vacancy Sensors - Ceiling Mounted	67	73	30	30	15		
L2b	New Lighting Controls - Occupancy/Vacancy Sensors - Wall Switch	28	37	10	16	6	3	
L2c	New Lighting Controls - Occupancy/Vacancy Sensors - Fixture Integrated	321		22	80	124		
L2d	New Lighting Controls - Daylight Harvesting - Fixture Integrated	20			56			
EL1	New LED Exit Signs	60	26	18	24		3	
EL2	New LED Wall-Mounted Emergency Lights	33	17	12	12		5	
EL3	New LED Fixture-Integrated Emergency Light	19	40	10	9			
EL4	New LED Emergency Egress Light	24	15	7	12			

# Interior Illumination Solution

- Improves life-cycle 66%+
- Increases efficiency 30%+
- Qualifies for rebates
- Reduces bulb outages
- Reduces frequency of need for lift
- Frees up staff for other tasks

## Light Emitting Diode (LED) Technology Solution

LEDs offer many benefits, including high efficiency + durability. These benefits translate into energy savings, maintenance savings, + a reduction in cost of ownership (life-cycle) over the product's lifetime. The average rated life expectancy of an LED is 50,000 hours or longer. With superior life over other lamps, the required maintenance of LEDs is greatly reduced. Unlike other lamps, which completely fail or extinguish at the end of useful rated life, LEDs continue to produce seventy percent (70%) of their initial lumen output. This is referred to as the LM-70 life rating. Super-bright white LEDs have minimal lumen depreciation, better optical efficiency, + high lumens per watt. LEDs are instant on + instant off, so there is no restrike period. LED fixtures also have an environmental advantage because they contain no mercury + are made from fully recyclable materials.

# Interior LED Illumination Solution

- Reduces deferred maintenance
- Reduces energy consumption
- Reduces energy costs
- Reduces GHG emissions
- Provides interior lighting levels per IESNA recommendations (maintain or improve existing)
- Mercury-free + shatter-proof
- 10+ year expected LED life
- 5-year manufacturer's warranty against LED defects



Bulb Recycling



# Touchless Occupancy Sensors





## **OTHER H/LS, FIRE, + CODE COMPLIANCE**

School(s):OES + OHSCategory:District H/LS ItemsH/LS Item #(s):OES-13, OES-14, OHS-22, OHS-23

#### ENGIE Services U.S. will

0

- Exclude H/LS items listed below (provided by District)
  - Remove and/or relocate stored items
    - Applicable rooms:
      - OES Jefferson Lower Level Tunnel
        - OHS Lower Level Tunnel
    - Existing lower level tunnel is utilized as a fresh air/ventilation chase and/or means of egress.
    - The District is currently storing supplies and materials in the tunnel which is a code violation.
  - District to remove stored items from tunnel
  - Remove and/or relocate stored items
    - Applicable rooms:
      - OES Etnyre All Electrical Rooms
      - OES Center All Electrical Rooms
      - OES Jefferson All Electrical Rooms
      - OHS All Electrical Rooms
      - Existing electrical rooms are being utilized for stored materials
    - District to remove stored materials to provide adaquate clearance in front of all electrical panels. Minimum requirement is 36" in front of panels
  - Items not specified in this addendum

School(s):OES + OHSCategory:Concrete RepairH/LS Item #(s):OES-21, OES-38, OHS-47

ENGIE Services U.S. will:

0

- Repair cracked concrete
  - Applicable areas
    - OES Jefferson Concrete Stoop outside Rm 121
    - Repair crack in concrete in existing stoop
- Replace drainage cover plates

- Applicable areas
  - OES Center Front Drive Sidewalk (Two stormwater trough covers)
  - The existing diamond plate covers are in poor condition and need to be replaced
- Provide and install new stainless steel diamond plate covers over stormwater troughs
- Replace concrete stairs

0

0

0

- Applicable areas
  - OHS Exterior Stairs East Side
  - Demo, remove, and properly dispose of existing concrete stairs
  - Provide and install new concrete stairs to match existing location, configuration, and dimensions

School(s): OHS Category: Interior Wall Repair H/LS Item #(s): OHS-19

**ENGIE Services U.S. will:** 

0

0

- Replace interior partition wall
  - Applicable rooms:
    - OHS Room 124
  - Demo, remove, and properly dispose of existing wood and combustible material partition wall
    - Exclude removal and replacement of District property, furniture and equipment from renovated spaces (bulletin boards, chalkboards, screens, smart boards, etc.)
  - Construct a new fire rated wall in the same location as existing wall
    - Match existing finishes as closely as possible

## **PLUMBING, LOCKER ROOMS, + COMFORT STATIONS**

School(s):	OES + OHS
Category:	Comfort Station Remodeling
H/LS Item #(s):	OES-40, OHS-64

ENGIE Services U.S. will:

Remodel existing gang restrooms including, per gang restroom:

- Applicable rooms:
  - OES Jefferson Boy's Gang Restroom 105, Girl's Gang Restroom 108 (2 Total)
  - OHS Original 1936 Building 1<sup>st</sup> and 2<sup>nd</sup> Floor Boys + Girls Restrooms (4 Total)
  - Demo, remove, and properly dispose of existing floor tile, wall tile, base, fixtures, flush valves, partitions, accessories, light fixtures, supply/exhaust grilles, wall heater and associated piping/electrical, and electric ceiling heater
  - Reconfigure/re-plumb fixtures to accommodate current ADA accessibility code while maintaining minimum fixture quantities per plumbing code
    - Provide and install all new energy efficient fixtures
    - Include automatic motion sensor faucets and flush valves
    - Build new block wall system along urinal wall to conceal plumbing
      - Replace floor urinals with new wall-hung urinals
    - Modify supply and waste as necessary to accommodate design
    - Patch/fill concrete as required
  - Provide and install new partitions for urinals and toilets
  - Provide and install new 12"x12" floor tile, including new floor drains
  - Provide and install new 12"x12" wall tile (to 7'6" AFF)
  - Paint wall above tile up to new ACT
  - Provide and install new ACT ceiling grid and tile (10"-12" below existing hard ceiling)
    - Relocate wall-mounted exhaust grille to accommodate new ceiling
  - Provide and install (4) new 2'x4' lay-in LED troffer fixtures (one at entry, three in restroom) including new
    occupancy sensor
  - Provide and install new exhaust grilles
  - Provide and install new recessed electric ceiling-hung unit heater
  - Provide and install new 3-Station Bradley handwashing station while ensuring hot and cold water supply with tempering mixing valve
  - Provide and install all new restroom accessories (mirror, soap dispenser, paper towel dispenser, grab bars (per code), toilet paper dispensers, sanitary napkin disposals, and waste receptacle
    - Include two (2) 18" x 36" mirrors, one per Bradley hand washing station
    - Include surface-mounted waste receptacle
  - Include ACM abatement as necessary

School(s):	OHS
Category:	Locker Room Remodeling
H/LS Item #(s):	OHS-27, OHS-57, OHS-58, OHS-60, OHS-62, OHS-63

#### ENGIE Services U.S. will:

New Flooring Installation

- Applicable rooms: 0
  - OHS Girls and Boys Coach's Offices (in Locker Rooms)
- Demo existing flooring in the OHS Boys and Girls Coach's office, approximately 200 SF 0
- 0 Prep flooring as specified and required by manufacturer to validate warranty coverage
- Provide and install LVT and adhesive with a 10 year manufacturer's material warranty for new flooring 0 areas
- Provide and install new vinyl cover base in new flooring areas 0
- Include ACM abatement as necessary 0
- Exclude removal and replacement of District property, furniture and equipment from renovated spaces 0
- Remodel existing gang restrooms, scope below is per gang restroom
  - Applicable rooms: 0
    - OHS Boys' Locker Room, Coach's Office, and Restroom/Showers
    - OHS Girls' Locker Room, Coach's Office, and Restroom/Showers
  - 0 Boys' Locker Room
    - Leave existing floor as is
    - Demo, remove, and properly dispose of materials as needed
    - **Replace** lockers
      - Include similar layout
      - Include new wider lockers 24"
      - Include new lockers of open-stall style with lockable upper or lower cabinet to secure a small amount of personal belongings
    - Provide and install new benches near lockers
    - Paint wall above tile
    - Prep and epoxy paint over existing wall tile
    - Prep and paint ceiling in rear of Boy's locker room (exposed deck + bar joists)
    - Replace two (2) existing exhaust fans, including barometric dampers
    - Provide and install new vapor tight LED Illumination
    - Coach's Offices (quantity of 2) and Coach's Restroom
      - Paint wall and ceiling
      - Provide and install new vapor tight LED illumination •
      - Exclude plumbing fixture replacements in restroom (not currently ADA compliant and insufficient space to make ADA compliant)
      - Provide and install new toilet accessories in restroom
    - Coach's Locker Area
      - Leave existing floor as is ٠
      - Paint wall + ceiling
      - Provide and install new vapor tight LED illumination
      - Provide and install new lockers (same type as in Boys' Locker Room)
      - Provide and install new bench
    - Showers + Shower Entry Area
      - Provide and install new shower heads + controls
      - Replace floor drains which leak into lower level kitchen areas
      - Repair damaged/missing wall and floor tile and epoxy coat over all tile
      - Provide and install new vapor tight LED illumination
    - Locker Room Restrooms
      - Reduce by one toilet to accommodate single ADA-compliant stall
      - Patch floor and new epoxy finish over existing floor tile
      - Epoxy wall paint over tile, patch where necessary
      - Paint ceiling and upper wall area above tile
      - Provide and install new plumbing fixtures (toilet, urinal, sink/faucet, accessories)
  - Girls Locker Room 0

.

- Leave existing floor as is
- Demo, remove, and properly dispose of materials as needed
  - Replace lockers (same type as in Boys' Locker Room)
    - Include similar layout with single-tier lockers of 18" width
- Provide and install new benches near lockers
- Paint wall above tile
- Prep and epoxy paint over existing wall tile
- Replace existing exhaust fans, including barometric dampers (if any)
- Provide and install new vapor tight LED illumination
  - Coach's Office and Coach's Restroom
    - Leave existing floor as is

- Paint wall + ceiling
- Provide and install new vapor tight LED illumination
- Exclude plumbing fixture replacements in restroom (not ADA compliant and insufficient space to make ADA compliant)
- Provide and install new toilet accessories in restroom
- Showers + Shower Entry Area
  - Provide and install new shower heads + controls
  - Replace floor drains which leak into lower level kitchen areas
  - Repair damaged/missing tile and epoxy paint over tile
  - Provide and install new vapor tight LED illumination
  - Locker Room Restrooms
    - Reduce by one toilet to accommodate single ADA compliant stall
    - Patch floor and provide new epoxy finish over existing tile
    - Epoxy wall paint over tile and patch where necessary
    - Paint ceiling and upper wall area above tile
    - Provide and install new plumbing fixtures (toilet, urinal, sink/faucet, accessories)
- Include ACM abatement as necessary
- Exclude removal and replacement of District property, furniture and equipment from renovated spaces

School(s):	OHS
Category:	Plumbing
H/LS Item #(s):	OHS-25, OHS-39, OHS-54

#### ENGIE Services U.S. will:

- Replace OHS Domestic Hot Water Heater
  - Remove existing domestic water heater; Bock M/N-75G2. Disconnect gas piping, domestic water connections, vent piping and existing circulation pump. Remove electrical back to nearest junction box.
  - $\circ \qquad \text{Leave existing expansion tank in use} \\$
  - Provide and install one (1) new A.O. Smith M/N-BTH-150 high efficiency water heater
  - Install per manufacturer's written installation instructions
  - o Include unit with condensate neutralization kit
  - Include new BTH-150 with dimensions of approximately: Height 75.75", Diameter 27.75".
  - o Install new inlet and outlet water connections and insulate to match existing
  - Provide and install two (2) new thermometers to replace existing on return and supply water piping
  - Reconnect to existing gas line; 3/4" NPT. The maximum allowable gas supply pressure for the water heater is 14.0" W. C. for natural gas. Install a positive lock-up gas pressure regulator in the gas supply line if inlet gas pressure can exceed these pressures at any time.
  - Configure direct vent for new unit
  - Install new intake and vent piping with piping of schedule 40 PVC or CPVC
  - Route relief valve piping to drain
  - o Install condensate drain piping to neutralization kit and route to drain
  - Provide and install new circulation pump
  - Reconnect power wiring to the new heater
  - o Verify existing over-current protection. Properly size, per latest NEC, and utilize existing if possible
  - Replace existing feeder and conduit if found to be undersized
- Replace BHC Domestic Hot Water Heater
  - o Remove and properly dispose of existing domestic water heater; Aerco KC Series.
  - Disconnect existing domestic water piping, flue piping, gas piping, electrical, etc. as required for installation of new equipment
  - o Leave existing expansion tank, circulation pump, and mixing valve in use
  - Provide and install one (1) new hot water boiler to provide domestic hot water to existing storage tank. Route new gas lines from the existing gas line to the new boiler; gas connection on each boiler is 1". Route new domestic hot water supply and hot water return piping to the new boilers to connect to the existing; include new 3" isolation valves. Insulate all new piping
  - o Include Aerco M/N-BMK1000 new hot water boiler which meets CSD-1 requirements
  - Provide and install two (2) new thermometers to replace existing on return and supply water piping
  - Locate new boiler on existing concrete housekeeping pad
  - Provide and install new concrete blocks similar to that used for B-2 to accommodate M/N-BMK1000 with dimensions of 28" W x 25" D x 78"H
  - Provide and install new 6" vent piping to connect to existing
  - Provide and install new 6" air intake ductwork from existing ductwork
  - Connect to condensate piping routed to floor drain
  - o Provide and install new disconnect and reconnect electrical
  - Properly size over-current protection per the latest NEC
  - Connect to existing emergency shut-off switches at mechanical room exits
  - Tie in new boiler into the building automation system (BAS)
- Replace BHC Water Softeners
  - Remove existing water softeners; disconnect domestic water connections and electrical

- o Provide and install two (2) Culligan M/N CTM-150 new water softeners (or equal). System is rated for
  - continuous flow of 59 GPM @ 15 PSI loss and peak flow of 76 GPM @ 25 PSI loss
- Install new inlet and outlet water connections, insulate connections to match existing
- Reconnect to drain piping

## **MECHANICAL + BAS**

School(s):OESCategory:Energy efficient mechanicalH/LS Item #(s):OES-12, OES-30

#### ENGIE Services U.S. will:

- Replace Electric Heating Coil in existing Air Handling Unit
  - Remove existing indoor electric heating coil mounted in gym air handling unit in the mezzanine mechanical room
  - Reuse existing power wiring
  - Install new electric heating coil
  - Include new coil rated at 162 kW @ 460 volts and equipped with 9 stages
  - Provide and install remote panelboard
  - Provide thermal cutouts, airflow switch, contactors, fuses, and control circuit transformer
  - Verify existing over-current protection. Properly size per latest NEC. Utilize existing if possible. Replace existing feeder and conduit if found to be undersized.
  - Include all control wiring necessary to operate system
- Provide Ventilation Air
  - Applicable rooms:
    - OES Jefferson Shelter 134
  - Demo, remove, and properly dispose of a small section of interior wall along fresh air chase that runs between Shelter Room 134 and Classroom 138
  - Provide and install new ventilation supply air duct from lower level ventilation chase thru existing fresh air chase between rooms
  - o Provide and install new balancing damper in new ductwork
  - o Provide and install new ventilation supply air grille in Shelter Room 134 wall
  - Perform air balance of new ventilation supply to verify adequate ventilation per 2015 International Mechanical Code

School(s):	OHS
Category:	Mechanical
H/LS Item #(s):	OHS-15, OHS-37, OHS-38, OHS-53, OHS-55, OHS-59

#### ENGIE Services U.S. will:

- Replace BHC Hot Water Boilers
  - Remove and properly dispose of four (4) existing boilers (B-1, B-3, B-4, and B-5) from the mechanical room
  - o Leave B-2 in use
  - Disconnect existing hot water piping, flue piping, gas piping, electrical, etc. required for installation
  - Provide and install blind flanges on hot water supply/return valves serving B-4 and B-5.
  - Cap gas for future use
  - Remove and properly dispose of two (2) existing hot water pumps
  - Provide and install two (2) new hot water boilers, B-1 and B-3
  - Route new 1" gas connection lines from the existing gas line to the 2 new boilers
  - Reconfigure piping as reverse return
  - Route new hot water supply and hot water return piping to the new boilers to connect to the existing
  - Include new 3" isolation valves
  - Insulate all new piping
  - Include Aerco M/N-BMK1000 hot water boilers, with new boiler gas train which meets CSD-1 requirements
  - Include new inline primary pumps on B-1 and B-3 per Aerco requirements and instructions
  - Include new inline primary pump on existing boiler B-2
  - Locate new boilers on existing concrete housekeeping pad. Provide and install new concrete blocks similar to that used for B-2 to accommodate M/N-BMK1000 dimensions of 28" W x 25" D x 78"H
  - Provide new 6" vent piping to connect to existing. Cap existing vent piping for B-4 and B-5
  - Provide new 6" air intake ductwork to each boiler from existing ductwork. Cap existing ductwork for B-4 and B-5
  - Provide and install two (2) new secondary hot water circulation pumps. Include Bell and Gossett series
     E-1510 new pumps, each rated at 290 gpm, 48 ft hd, 7.5 hp, 1150 RPM, 460-volt, 3 PH. Replace existing combination starter/disconnect with new variable frequency drive (VFD) similar to ABB ACH series

- Connect to condensate piping routed to floor drain
- Provide and install new disconnects and reconnect electrical
- Properly size over-current protection per latest NEC
- o Connect to existing emergency shut-off switches at mechanical room exits
- o Tie new boilers and secondary pumps into the existing BAS
- Existing air handling units (AHUs) are equipped with 3-way valves. Cap bypass piping on each valve (typical of 6) to convert to 2-way valves
- Replace BHC Condensing Unit, Refrigerant Linesets, and Evaporator Coil
  - Existing unit is R-22:
    - Evacuate existing refrigerant and provide certificate of proper disposal
      - Remove and properly dispose of existing Carrier air-cooled condensing unit from existing concrete pad
      - Remove and properly dispose of indoor evaporator coil mounted in AHU-6 located in Storage Room-118
    - Remove and properly dispose of all existing refrigerant piping and insulation
  - Provide and install new indoor evaporator coil with associated thermal expansion valves and specialties with coil rated at 7,000 CFM, 318 MBH total, 229 MBH sensible with a maximum air pressure drop of 0.75 IN. WG
  - Provide and install new condensing units on existing concrete pad with new Carrier M/N-38APD027 condensing unit and including all necessary refrigerant piping, insulation, and ancillary devices, per manufacturer's recommendation for piping configuration. Include a unit with R-410, equipped with digital compressor, single point power and BACnet card. Include a unit rated at 460-volt, 3 PH, 80 MOCP. M/N-38APD027 dimensions: 40.3" W x 88.2" L x 73.1" H.
  - Verify existing over-current protection. Properly size per latest NEC. Utilize existing if possible. Replace existing feeder and conduit if found to be undersized.
  - Include all control wiring necessary to operate system
  - Patch and properly seal all wall penetrations
- Replace OHS Dryer Vent

0

0

- Existing residential style dryer located near kitchen is currently vented into 5-gallon bucket.
- o Remove and properly dispose of existing vent and bucket.
- Provide and install new 4" dryer vent
- Route new 4" dryer vent to exterior wall
- Provide and install new hooded wall vent termination kit with spring-loaded damper, gasket, and screen
- Paint to match existing exterior
- Replace the existing exhaust fan motors
  - Applicable rooms:
    - OHS BHC Main Gym
  - Selectively demo, remove, and properly dispose of the motors, belts, and damper actuators on four existing high wall-mounted exhaust fans
  - Replace motors, belts, and damper actuators on four exhaust fans (EF-1, EF-2, EF-3, and EF-4)
     Leave existing dampers in use
    - Include variable speed operation of fans to modulate according to space pressurization and integrate into existing BAS
- Replace OHS Sewage Ejection Pump
  - Remove and properly dispose of existing sewage ejection pump located in mechanical room in kitchen
  - o Remove existing waste piping and electrical as required for installation of new system
    - Remove existing debris and prepare walls and floor for paint
    - Paint surrounding walls and provide new epoxy coating for floor
    - Provide and install one (1) new duplex sewage ejection system with sump and control panel
  - Include pumps each rated at 0.5 HP, 115V, 1 PH
    - Include new visual alarm mounted on wall outside of pump room
  - Tie alarm into existing BAS
  - EXCLUDE exhaust system in 1st + 2nd Floor Custodial Rooms in OHS Original 1936 Building
    - District no longer uses these rooms for custodial storage (HLS Item # OHS-15)

## ENGIE SERVICES U.S. STUDENT + COMMUNITY ENGAGEMENT SUPPORT

We provide linkages to ENGIE Services U.S. Careers for Students, the timing of which is at the District's discretion. All instructional materials and training modules are designed to complement existing efforts, aligned to Next Generation Science Standards (NGSS) and Common Core State Standards (CCSS). ENGIE Services U.S. will collaborate with the District to provide one (1) of the following optional (A-D) modules for a one (1)-day program:

#### A – ENGIE SERVICES U.S. ENGINEERING OR CONSTRUCTION INTERNSHIP

For two (2) students during the (1) summer construction period only. ENGIE Services U.S.'s internship gives students challenging tasks based upon a real-world renovation project:

 Exploring the intersection of sustainability and engineering as they learn about design and maintenance of ENGIE Services U.S. project(s)

- Gaining hands-on, real-world experience and honing career skills through experience in energy assessment, energy management, and energy conservation measure design
- Encouraging learning from (1) ENGIE Services U.S.'s national intern network (2) ENGIE Services U.S. guest speakers from different departments and (3) ENGIE Services U.S.-guided conversations about workforce skills such as communication, leadership, and creativity, reinforcing career skills and knowledge via self-paced online learning modules

#### B – ENGIE SERVICES U.S. HANDS-ON ENVIRONMENTAL ASSESSMENT TEAMS (HEAT)

Getting multiple classes of students engaged in "Introduction to Energy Assessments" provides lessons they can apply at school and home. Students gain access to "tools of the trade" and engagement with engineers to conduct assessments of the building(s). HEAT teams learn to use these tools: flicker testers, watt meters, light meters, infrared temperature monitors, temperature probes, and humidity pens. Armed with these instruments, students engage in:

- Conducting energy assessments, examining energy usage holistically
- Developing a plan to reduce energy usage and carbon footprint
- Tracking the impact
- o Developing presentation, public speaking, relationship-building, collaborative teamwork, and STEM skills

#### C – ENGIE SERVICES U.S. GREEN TEAMS

- Behavioral Energy Conservation Program Goals and Objectives
  - Utilizing a hands-on learning approach
  - Involving students and staff in reducing energy use
  - Increasing student and staff awareness
  - Building upon existing conservation efforts
- School Environmental Evaluation (SEE)

During a one-day long kickoff, ENGIE Services U.S. will provide materials and training necessary to enable the creation of "Green Teams" or a campus energy conservation club program to be conducted as co-curricular and extra-curricular experiences for students. Teams of teachers and students work with the administration and staff to analyze the school's energy and water usage, make recommendations for actions that can save energy, spearhead campaigns for energy savings, provide feedback for improvements to maximize energy savings, and drive conservation at the school-level. Students utilize the EPA's Energy Star Portfolio to benchmark the school against other schools nationwide. Schools that score 78 or above are qualified for the Energy Star certification, and ENGIE Services U.S. will support the school in preparing documents to attain this certification. Students will be responsible for SEE, including interviewing building administrators, custodians, and/or food service personnel. This evaluation supports students in seeing the buildings holistically from the viewpoint of its various users. The club(s) will have faculty and/or community volunteer advisors and can provide suggestions for videos, films, articles/books, activities, field trips, and other activities to support the initiative. Members can be "youth energy coaches" or "ambassadors" engaging in:

- Visiting different grade levels as educators and/or mentors
- Championing behavioral change around the school(s)
- Conducting energy audits on campus and/or at home
- Presenting school/club accomplishments (e.g. at School Board Meetings, education/energy-related events, local civic organizations, etc.)
- o Developing energy education marketing messages for peers and/or community

#### **D – ENGIE SERVICES U.S. COMMUNITY ENGAGEMENT SUPPORT**

The ENGIE Services U.S. team offers a range of communications tools and tactics to enrich community engagement and enhance opportunities to promote your energy program success to residents, elected officials, and other public stakeholders. ENGIE Services U.S. provides a customized approach to communications planning, co-authored with the District. Our plan focuses on communications and public relations (PR) support to promote community awareness, engagement, and recognition to highlight the District's successful achievement of its goal to transform the learning and working environment while reducing risk to the District.

Leveraging our team of in-house communications professionals, ENGIE Services U.S. will:

 Provide the District with community engagement support centered on key messaging that the District's new program, for example, is:

#### "Engaging the Oregon Community" and/or "Transforming the District While Reducing Risk"

- Provide on-site construction signage and materials support to help communicate program milestones to residents
- Provide a social media toolkit to help supplement District program updates (e.g. highlights on program activity to-

date, videos, photos, and references to upcoming activities) during three key project milestones:

- Pre-construction
- During construction
- Post-substantial completion
- Create a general media toolkit with program information and key points of contact to help engage local media directly
- Provide support for the District to celebrate success post-construction with a community ribbon-cutting ceremony and co-authored press release

## **ENGIE SERVICES U.S. RESIDENTIAL SAVINGS + EDUCATION**

ENGIE Services U.S. builds, owns, and operates dozens of solar installations throughout the Midwest and participates in the Illinois Power Agency's ("IPA") Block Energy and Capacity Procurement program to bring Community Solar gardens to local electricity users across Illinois. Residents can participate directly in renewable energy development and procurement - even if they cannot host solar panels at home - by subscribing to an ENGIE Services U.S. facility located in their electric service territory. ENGIE Services U.S. Community Solar installations are currently under construction within the District's electric service territory! ENGIE Services U.S.'s local community solar subscribers benefit by:

- saving an estimated 10% on electricity
- supporting a source that is local, clean, green, and resilient

#### ENGIE Services U.S. will

- Partner with the District enable the District to offer its residents direct benefits:
  - Savings eligible subscribers get an estimated 10% electricity bill discount
    - Education for every 100 subscribers within the District on or before 05/31/21, ENGIE Services U.S. provides 2 Sustainability Internships for local high school students which can include topics such as STEM careers, renewable energy, and more
  - Support Community Engagement provide the District with marketing materials, including but not limited to:
    - website landing page for resident communications and enrollment
      - flyer design (sample draft flyer provided below)
      - o co-authored press release
      - o digital marketing support as needed and agreed upon
    - Handle Administration manage the program, including but not limited to:
      - managing resident enrollment
      - o tracking enrollment quantities

# **Oregon CUSD 220 Community Solar**



# Go Green • Lower Your Utility Bills Help Area Students

Oregon CUSD 220 has partnered with ENGIE to offer the benefits of renewable energy to EVERYONE.

Enroll by 5/31/21 and get a 10% DISCOUNT on your utility bill!

**How it Works** 



Your Solar Farm Get a portion of a solar farm in

your area allocated to you to produce clean, renewable energy on your behalf.

## Your Utility

You get a discount on your normal utility bill for the electricity produced by your allocation.

# Your Home

You benefit from affordable clean energy without any installation, extra costs, or downtime!

ENGIE will provide a SUSTAINABILITY INTERNSHIP for two local students for every 100 community households enrolled!

Enroll on or before 5/31/21 via this link \_\_\_\_\_ to start saving now!



## ENGIE SERVICES U.S. GREEN RIBBON SCHOOLS SUBMISSION

Each year, Illinois schools, districts, and postsecondary institutions highlight the hard work they are doing to implement green initiatives by completing and submitting applications to the Illinois Green Ribbon program, part of the national U.S. Department of Education program. ENGIE Services U.S. will focus on PR support to earn recognition for the District's accomplishments and dedication to creating healthy, sustainable learning environments.

#### Leveraging our team of in-house professionals, ENGIE Services U.S. will:

- Fill out the application, using data and information from interviews with District staff
- o Complete the application, leveraging ENGIE Services U.S.'s past successful experience
- Upon review and approval by the District, submit the application on behalf of the District on or before the deadline of February 8, 2021
- Does not include a guarantee of the results

## ATTACHMENT E PROJECT SCHEDULE

Attachment E shall be amended to include the following Project Schedule for Amendment No. 2 - Scope of Work:

START DATE	FINISH DATE	ITEM	PROVIDE
Monday, March 19, 2018	Monday, March 19, 2018	ENGIE officially selected as Qualified Provider - extended to 10 or more years	District
Friday, November 6, 2020	Monday, November 16, 2020	Public Notice 10+ days prior to agreement approval	District
Monday, November 16, 2020	Monday, November 16, 2020	Energy binder + neutral 3rd party architect approval letter delivered to District	ENGIE
Monday, November 16, 2020	Monday, November 16, 2020	District approves agreement	District
Monday, November 16, 2020	Monday, November 16, 2020	District completes final legal	District
Tuesday, November 17, 2020	Thursday, December 31, 2020	District makes mobilization payment	District
Tuesday, November 17, 2020	Thursday, December 31, 2020	Limited Notice to Proceed (NTP) work begins	ENGIE
Tuesday, November 17, 2020	Monday, February 8, 2021	ENGIE Green Ribbon Schools Application Submission (no cost)	ENGIE
Tuesday, November 17, 2020	Monday, May 31, 2021	ENGIE Residential Savings + Education (no cost)	ENGIE
Tuesday, November 17, 2020	Friday, December 31, 2021	ENGIE Community + Student Engagement (no cost)	ENGIE
Monday, February 15, 2021	Monday, February 15, 2021	District receives bond proceeds (finance contingency completed)	District
Monday, February 15, 2021	Monday, February 15, 2021	Notice to Proceed (NTP) work begins	ENGIE
	Planning,	Design, + Engineering	
Tuesday, November 17, 2020	Friday, January 15, 2021	Engineering Design - 50% Construction Documents	ENGIE
Friday, January 15, 2021	Thursday, February 18, 2021	Engineering Design - 95% Construction Documents	ENGIE
Thursday, February 18, 2021	Thursday, February 18, 2021	Final Design Review Meeting	District
Thursday, February 18, 2021	Thursday, March 11, 2021	Engage/qualify subcontractors, solicit bids, + make awards	ENGIE
Thursday, March 11, 2021	Thursday, March 18, 2021	Submittal, preparation, + review	ENGIE
Thursday, March 18, 2021	Thursday, April 1, 2021	Final ENGIE submittal review/approvals	District
Thursday, April 1, 2021	Thursday, April 1, 2021	Submission of construction documents for permitting	ENGIE
Thursday, April 1, 2021	Thursday, April 15, 2021	Obtain all necessary permit/plan review approvals	ENGIE
	Procurement, Construc	tion Management, + Commissioning	
Thursday, April 1, 2021	Friday, May 21, 2021	Equipment lead time + delivery	ENGIE
Friday, May 21, 2021	Friday, August 13, 2021	Summer construction (students out)	ENGIE
Monday, August 16, 2021	Monday, August 16, 2021	Building ready for occupancy (students return)	ENGIE
	Operations, Maintena	ance, Training, + Final Completion	
Monday, August 16, 2021	Friday, October 29, 2021	Final construction/punchlist activities	ENGIE
Monday, November 1, 2021	Monday, November 1, 2021	Substantial completion	ENGIE
Fuesday, November 2, 2021	Friday, December 31, 2021	Closeout activities	ENGIE
Tuesday, November 2, 2021	Friday, November 26, 2021	Staff training	ENGIE
Friday, December 31, 2021	Friday, December 31, 2021	Final completion	ENGIE

## ATTACHMENT F PROGRESS PAYMENT SCHEDULE

Attachment F shall be amended to include the following Progress Payment Schedule for Amendment No. 2 - Scope of Work:

ENGIE + D220 Amendment #2 Progress Payment Schedule									
Implementation Amou	nt	\$	11,600,000						
Execution Date			11/16/20						
Estimate Billing Date			mulative Amount Billed		Fixed or Estimated	Dilling Ture			
November-20	Amount \$ 650,000		650,000		Fixed	Billing Type			
December-20	\$ -	\$	650,000	5.6%					
January-21	\$-	\$	650,000	5.6%					
February-21	\$ 1,090,000	\$	1,740,000	15.0%	Fixed	NTP			
March-21	\$ 580,000	\$	2,320,000	20.0%	Estimated	Engineering Progress Payment			
April-21	\$-	\$	2,320,000	20.0%	Estimated				
May-21	\$ 696,000	\$	3,016,000	26.0%	Estimated	Construction Progress Payment			
June-21	\$ 1,740,000	\$	4,756,000	41.0%	Estimated	<b>Construction Progress Payment</b>			
July-21	\$ 2,320,000	\$	7,076,000	61.0%	Estimated	Construction Progress Payment			
August-21	\$ 2,204,000	\$	9,280,000	80.0%	Estimated	Construction Progress Payment			
September-21	\$ 1,160,000	\$	10,440,000	90.0%	Estimated	Substantial Completion Payment			
October-21	\$-	\$	10,440,000	90.0%	Estimated				
November-21	\$-	\$	10,440,000	90.0%	Estimated				
December-21	\$ 1,160,000	\$	11,600,000	100.0%	Estimated	Final Completion Payment			

Note: The Limited Notice-To-Proceed (LNTP) invoice that is due upon contract execution is a fixed amount. The Project Notice-To-Proceed (NTP) invoice is due upon expiration of the financing contingency (Anticipated Feb-2021). All other billings will be made against the AIA Schedule of Values based on work completed.

Amendment to ESC

## ATTACHMENT G STANDARDS OF OCCUPANCY & CONTROL

Attachment G shall be amended to include the following Standards of Occupancy & Control for Amendment No. 2 - Scope of Work:

The following standards represent the existing and proposed occupied and unoccupied space temperature set points and corresponding time of day schedules used as a basis to determine the savings associated with the items included in the project. We understand that existing and installed equipment may not allow for exact times and temperature set points to be met, but that every effort is made to meet these standards as closely as the equipment allows.

				EXISTING						PR			ROPOSED			
						He	Heating		Cooling				Heating		Cooling	
Building/ Area Served	Schedule	Equipment	Start	Stop	Days	Occupied	Unoccupied	Occupied	Unoccupied	Start	Stop	Days	Occupied	Unoccupied	Occupied	Unoccupied
					<b>F</b>	•									•	
Blackhaw	k Center												•			
	1	AHU-1 thru AHU-4	4:00	21:00	M - F	68	67	Vent	Off	4:00	21:00	M - F	68	67	Vent	Off
			4:00	21:00	Sat-Sun	68	67	Vent	Off	4:00	21:00	Sat-Sun	68	67	Vent	Off
	2	AHU-5	4:00	21:00	M - F	70				4:00	21:00	M - F				
			4:00	21:00	Sat-Sun	70				4:00	21:00	Sat-Sun				
	3	AHU-6	4:00	21:00	M - F	67		71		4:00	21:00	M - F				
			4:00	21:00	Sat-Sun	67		71		4:00	21:00	Sat-Sun				

### ATTACHMENT H ENERGY MANAGEMENT AND GUARANTEE SERVICES

Attachment H is deleted in its entirety, and replaced with the following:

#### I. Standard Energy Management Descriptions + Definitions

- 1. <u>M+V Commencement Date</u>: "M+V Commencement Date" shall be the first day of the month following both: 1) The signed Certificate of Final Completion, and 2) ENGIE Services U.S.' receipt of the Contract Amount.
- 2. <u>Construction Period</u>: The "Construction Period" is the period beginning with the first day of the month that equipment is first installed and continuing until the M+V Commencement Date.
- 3. <u>Measurement Year</u>: A "Measurement Year" is each one-year period following the M+V Commencement Date, plus the Construction Period (Measurement Year 0) which may not necessarily be a one-year period.
- 4. <u>EC Savings</u>: The energy conservation savings, or "EC Savings", having units of dollars (\$), are those savings achieved through the reduction in energy consumption, demand, energy rates, maintenance, or materials through the implementation of the Scope of Work.
- 5. <u>Energy Savings Term</u>: The "Energy Savings Term" shall be the Construction Period followed by the number of Measurement Years shown in Attachment I. or until the termination of this Contract.
- 6. <u>Savings Measurement + Verification Plan</u>: The "Savings Measurement + Verification Plan" is the scope of work defined by Attachment H and provides for the quantification of EC Savings for the purpose of meeting the Guaranteed Savings.
- 7. <u>Projected Energy Savings</u>: "Projected Energy Savings" are those savings expected from the installation and continued operation of the Scope of Work.
- 8. <u>Termination of Guaranteed Savings</u>: If the Contract is terminated pursuant to Section 19 of Attachment A, the Guaranteed Savings shall also be terminated. Should such termination occur on a date other than at the beginning of a Measurement Year, ENGIE Services U.S. shall have no Guaranteed Savings for a partial year.
- 9. Guaranteed Savings: "Guaranteed Savings" are the savings tabulated in Attachment I.
- 10. <u>Energy Unit Savings</u>: The savings in units of energy, power, water, etc., achieved through the reduction in energy consumption, demand, through the implementation of the Scope of Work as defined and calculated in herein.
- 11. <u>Baselines:</u> In determining Baselines, ENGIE Services U.S. identified some of the factors which may affect energy use for the Facilities, including but not limited to: hours and levels of occupancy; adjustments in labor force; building use and operational procedures; temperature, humidification, and ventilation levels; installed lighting and scheduled use; building construction and size; general level of repair and efficiency of heating and air conditioning equipment and other energy-using equipment; and amount of heating and air conditioning and other energy-using equipment. After consideration of those factors and certain other anomalous use of the Facilities, ENGIE Services U.S. establishes initial Baselines. It is understood that due to changes in factors affecting energy use, the Baselines may be revised from time to time as detailed in this Attachment. In addition, data collected during the period before construction may indicate a change of the energy use pattern at the facility and require a change to the Baselines. ENGIE Services U.S. shall notify the Customer, in writing, of all such changes.
- 12. <u>Base Energy Rates:</u> The "Base Energy Rates", having units of dollars per energy unit, are presented herein and shall be used by ENGIE Services U.S. to calculate the EC Savings.

#### II. Guaranteed Savings Terms and Conditions

- 1. The Customer shall maintain all Scope of Work installed under this Contract in a manner consistent with the manufacturer's or ENGIE Services U.S.' recommended maintenance schedules and procedures from the time of Substantial Completion. ENGIE Services U.S. shall, if it deems necessary, inspect the Facilities annually.
- 2. For the purpose of determining EC Savings, ENGIE Services U.S. shall prepare reports, take on-site measurements, monitor building automation systems, and/or additional work as required by and detailed in the Savings Measurement + Verification Plan.
- 3. The Customer acknowledges and consents to ENGIE Services U.S.' right to monitor EC Savings and energy management performance by conducting on-site measurements, including, but not limited to, reading meters and installing and observing on-site monitoring equipment. The Customer shall cooperate fully with any such measures instituted by ENGIE Services U.S. pursuant to this Subsection. ENGIE Services U.S. shall not institute any measures that unreasonably interfere with the business of Customer conducted at the Facilities. At ENGIE Services U.S.' request, to facilitate ENGIE Services U.S.' monitoring of the Scope of Work, Customer shall open up a communication path via the Internet, between Customer's Energy Management System(s) and ENGIE Services U.S.' office in Overland Park, KS. Customer shall provide at its expense any networking, telecommunication, encryption, or security hardware and/or software necessary to achieve such communication path, as well as any similar hardware, software, or encryption devices necessary for use at ENGIE Services U.S.' office. ENGIE Services U.S. will provide the customer with the precise locations for network communication ports within Customer's facilities. Customer agrees not to charge ENGIE Services U.S. to install or maintain such communication paths for the duration of this Contract.
- 4. For the purpose of determining EC Savings, Customer shall cooperate with ENGIE Services U.S. by providing utility information, changes in factors affecting energy use, and/or additional information as requested by ENGIE Services U.S. personnel.
- 5. Savings Guarantee: Subject to changes in factors affecting energy use, ENGIE Services U.S. guarantees that the Customer will realize total EC Savings during the Energy Savings Term of not less than the Guaranteed Savings.

- a. Guarantee Payment: Should the Customer's total EC Savings during any Measurement Year be less than the Guaranteed Savings for that year, ENGIE Services U.S. guarantees that it shall pay to the Customer, within 30 days of the acceptance of the annual energy savings report, the difference between the Guaranteed Savings for such year and the total EC Savings for that Measurement Year, not to exceed the guarantee amount. If in the judgment of the Customer, Customer would benefit from additional energy services or energy saving retrofits, Customer and ENGIE Services U.S. may mutually agree upon such services or retrofits in lieu of Guarantee Payment. For the purposes of this Contract, such services or retrofits actually delivered by ENGIE Services U.S. will be considered a Guarantee Payment for that Measurement Year.
- b. Excess Savings: For each Measurement Year in which the EC Savings exceed the Guaranteed Savings, the Excess Savings shall be the difference. For any Measurement Year following a Measurement Year(s) in which ENGIE Services U.S. has made a Guarantee Payment to the Customer, the Customer shall first pay to ENGIE Services U.S., to the extent of the Excess Savings, the amounts paid by ENGIE Services U.S. to the Customer for all prior Measurement Years.
- c. Accumulated Savings: The total Excess Savings remaining, including construction period if savings are positive, after payment to ENGIE Services U.S. for previous Guarantee Payment(s), will be added to the EC Savings for the following Measurement Year. With respect to any Measurement Year in which ENGIE Services U.S. has made a Guarantee Payment to the Customer, the Accumulated Savings will be set to zero for the following Measurement Year. Wherever such term is used elsewhere in this Contract, the Accumulated Savings will be considered EC Savings.
- 6. Changes in Factors Affecting Energy Use
  - a. The Customer shall notify ENGIE Services U.S. in writing within ten (10) business days of any change in any factor that affects the Baselines as set forth. ENGIE Services U.S. will determine the effect that any such change will have on EC Savings and present to the client a written analysis of the effects of the changes. Changes that are long term or permanent will be reflected in a change to the Baseline. Temporary changes that affect energy use will be calculated and added to the corresponding month's EC savings.
  - b. If a change in any of the factors involved in the Baseline occurs and results in a reduction of EC Savings, then the level of dollar energy savings to be guaranteed by ENGIE Services U.S. will be decreased by the same amount.
  - c. Customer and ENGIE Services U.S. may from time to time desire to make changes for the express purpose of increasing EC Savings. It is agreed that these changes will only be made with the written consent of both parties, which will not be unreasonably withheld. The Baseline will not be adjusted to reflect any changes agreed to under this subparagraph. If ENGIE Services U.S. elects to pay for the cost of any such changes that would not unreasonably interfere with the conduct of Customer's business, and the Customer does not consent to the changes, then the Baseline will be adjusted upward by the amount of savings projected from the changes.
  - d. During the Energy Savings Term when the effect on savings can not be accurately determined due to construction or major changes, Projected Energy Savings for the facility will be used for the period of such changes and until the effect of the changes can be determined by ENGIE Services U.S.
  - e. ENGIE Services U.S. has the right to charge the Customer for work required to assess the effect on savings for any large scale changes, including, but not limited to, building additions, new buildings, and new or changed HVAC equipment, that require more than forty (40) hours per year to be spent in calculating their effect on the energy savings. Such hours will be billed at current ENGIE Services U.S. engineering rates. Before initiating such work, ENGIE Services U.S. will notify the Customer in writing of the intent and cost associated with the work. The Customer will, within 45 days in writing, notify ENGIE Services U.S. with permission to proceed or, alternatively at no charge, to stipulate that the Projected Energy Savings for the existing facility in question be used as Energy Use Savings for the purpose of meeting the guarantee. If ENGIE Services U.S. does not receive written notice within 45 days, the Projected Energy Savings for the existing facility in question will be used as EC Savings until such time that the Customer approves the work, as long as the scope of the work has not changed.
  - f. If the Customer fails to notify ENGIE Services U.S. of changes in factors affecting energy use or fails to supply ENGIE Services U.S. with requested information that is required for the calculation of saving in a timely manner, EC Savings for the period will be equal to those Projected Energy Savings for the period. If information for the period in question is supplied at a later date, the EC Savings will be modified only if the calculated savings for the period exceed the Projected Energy Savings for that period of time.
  - g. Any changes made by ENGIE Services U.S. to the Baselines or savings calculations, as outlined in this contract, shall be presented to the Customer for approval. The Customer shall have 30 days to approve or question the changes in writing. If ENGIE Services U.S. does not receive notice in writing within 30 days, the changes will be considered contractually valid and implemented as proposed. If the Customer notifies ENGIE Services U.S. within 30 days of their non-approval of the changes, ENGIE Services U.S. will work with the client to answer any questions or make any necessary corrections.
  - h. The Customer agrees that ENGIE Services U.S. shall have the right, with or without prior notice, to inspect the facilities to determine if the Customer is complying and shall have complied with its obligations as set forth above. In the event that any inspection discloses that the Customer has failed on the date of the inspection to be in compliance with any items set forth above, then the Guaranteed Energy Savings shall be assumed to have been achieved for and with respect to the portion of the Energy Savings Period during which such failure shall have existed.

#### III. Calculation of EC Savings

- 1. Energy Savings Report: Within 90 days after receipt of all needed information ENGIE Services U.S. shall submit an energy savings report for all Measurement Years, with a precise calculation of the EC Savings to the Customer, unless additional information is needed to accurately calculate the EC Savings, in which case the Customer shall be notified of such a situation within the 90 day period.
- 2. Four different types of EC Savings are identified under this Contract: (a) Energy Use Savings, (b) Fuel Switch Savings,

(c) Energy Rate Reduction Savings, and (d) Stipulated Non-Energy Savings. Total EC Savings will be determined by adding together the Energy Use Savings, Fuel Switch Savings, Energy Rate Reduction Savings, Operational Reduction Savings, and any calculation of an adjustment to the savings due to changes in factors affecting energy use for each period.

- a. Energy Use Savings are those savings achieved through reductions in energy use, energy demand, water, and other commodities. ENGIE Services U.S. will calculate the Energy Unit Savings as detailed in the Savings Measurement and Verification Plan. The Energy Unit Savings will then be multiplied by the applicable Base Energy Rates set forth herein. The dollar amount determined by such calculation shall be the Energy Use Savings for such period
- b. Fuel Switch Savings are those savings achieved by switching to a more economical source of energy on a cost per unit of energy basis. The Fuel Switch Rate (dollars saved per unit of new fuel used) will be calculated by ENGIE Services U.S. and presented herein and shall not be escalated for purposes of calculating savings. Fuel Switch Savings shall be computed for each period by multiplying the Fuel Switch Rate by the number of units of new fuel consumed for that period.
- c. Energy Rate Reduction (ERR) Savings are those savings achieved through either improving the rate from local utility company, direct purchase of a commodity, or bulk purchase of commodity. An ERR savings rate (dollars saved per unit of applicable energy) will be calculated by ENGIE Services U.S. and presented herein and shall not be escalated for purposes of calculating savings. ERR Savings shall be computed for each period by multiplying the ERR savings rate by the number of units of energy consumed for that period. There will be no Energy Rate Reduction Savings calculation or penalty if the current energy rate exceeds the Base Energy Rate. There will be no ERR Savings calculation unless an energy rate reduction has been achieved either directly or indirectly by ENGIE Services U.S.
- d. Stipulated Non-energy Savings are achieved through reduction in non-energy cost due to the implementation of the Scope of Work identified by ENGIE Services U.S., to be calculated as set forth herein.

#### IV. Savings Measurement + Verification Plan

The following details the methodologies and calculations to be used in determining the Energy Unit Savings under this Contract.

	Measurement + Verification Method Options									
ECM	Electric Usage (kWh)	Electric Demand (kW)	Natural Gas Usage (Therms)	Domestic Water (kGal)						
Roofing + Moisture Management Interface	Stipulated	Stipulated	Stipulated	N/A						
Door + Window Repairs	N/A	N/A	N/A	N/A						
Flooring	N/A	N/A	N/A	N/A						
Press Box + Athletic Repairs	N/A	N/A	N/A	N/A						
Security Corridor	N/A	N/A	N/A	N/A						
CPTED Traffic Calming	N/A	N/A	N/A	N/A						
Integrated Digital Solutions: Surveillance + Controlled Access	N/A	N/A	N/A	N/A						
Integrated Digital Solutions: Safety Communications + Digital Time Management	N/A	N/A	N/A	N/A						
Integrated Digital Solutions: Fire Protection	N/A	N/A	N/A	N/A						
Electrical, Illumination, + Conservation	Option A	Option A	Stipulated	N/A						
Other H/LS, Fire, + Code Compliance	N/A	N/A	N/A	N/A						
Plumbing, Locker Rooms, + Comfort Stations	N/A	N/A	N/A	N/A						
Mechanical + BAS	N/A	N/A	N/A	N/A						
ENGIE Student + Community Engagement Support	N/A	N/A	N/A	N/A						
ENGIE Residential Savings + Education	N/A	N/A	N/A	N/A						
ENGIE Green Ribbon Schools Submission	N/A	N/A	N/A	N/A						

1. M+V Option A: This option allows for the energy savings to be predicted, measured, and agreed upon between the Customer and ENGIE Services U.S. One-time measurements and stipulated parameters are used to quantify savings that are stipulated for the term of the Contract.

- a. ENGIE Services U.S. will supply a one-time report to the Customer detailing the measurements and calculation of savings. If the calculated savings fall short of those expected, ENGIE Services U.S. will have the opportunity to remedy the short-fall and re-measure and calculate the results. Such work will be done at ENGIE Services U.S.' expense and shall not be unreasonably denied by the Customer, as long as such work does not interfere with the Customer's use of the Facilities. These calculated savings will be defined as Energy Unit Savings and will be agreed to occur each year of the Contract. During the Construction Period, the Energy Unit Savings will be calculated by adding the savings measured for the whole months between Substantial Completion or Beneficial Use of the EC Measure and the M+V Commencement Date.
- b. M+V Option A Savings Verification is proposed for the Electrical ECM which includes exterior and site lighting upgrades. The verification process will follow the below methodology.

#### Demand Verification

Lighting fixture energy draw (kW) will be measured for pre- and post-retrofit conditions by true RMS kW meter. Each retrofit type will be measured at each site. Depending on existing conditions, the readings could be for entire lighting circuit at the switch or electrical panel or just one fixture. Regardless, pre- and post-retrofit measurements are made at same locations for accurate comparison.

#### Energy Consumption Verification

Annual operating hours were determined utilizing current occupancy schedules and by interviewing on site staff. The table below illustrates the agreed upon annual hours of operation. These annual use hours will be used for both pre- and post-retrofit consumption calculations.

					Lightin	g Controls
						Total annual
	hours per	days per	weeks per	Total annual	Sensor	hours with
Space Type	day	week	year	hours	Savings %	sensor
Athletic Field	4	4	40	640	N/A	N/A
Cafeteria/Multipurpose	16	6	50	4,800	30%	3,360
Classroom Elementary	10	5	42	2,100	30%	1,470
Classroom Middle & HS	12	6	42	2,772	30%	1,940
Conference/Training Room	8	5	40	1,600	30%	1,120
Data Center	4	5	40	800	30%	560
Exit Sign - 24/7	24	7	52	8,760	N/A	N/A
Exterior	12	7	52	4,368	N/A	N/A
Exterior - 24/7	24	7	52	8,760	N/A	N/A
Gym Elementary	14	5	50	3,500	30%	2,450
Gym Middle & HS	16	6	50	4,800	30%	3,360
Hallway/Lobby/Stairs	16	6	50	4,800	30%	3,360
Kitchen	12	5	42	2,520	30%	1,764
Lounge/Breakroom	14	5	50	3,500	30%	2,450
Mechanical/Electrical	4	5	50	1,000	30%	700
Office-Enclosed	9	5	50	2,250	30%	1,575
Office-Open	12	5	50	3,000	30%	2,100
Restroom-Open	16	5	50	4,000	30%	2,800
Restroom-Single	6	5	48	1,440	30%	1,008
Storage Active	8	5	50	2,000	30%	1,400
Storage Inactive	4	5	50	1,000	30%	700
Work Room	12	5	50	3,000	30%	2,100
Em Battery Backup	0	0	0	0	N/A	N/A
Night Light - 24/7	24	7	52	8,760	N/A	N/A

<u>Annual Savings</u>

Annual Energy Unit savings are determined by comparing the conditions pre- and post-retrofit of the ECM. The demand for both pre- and post-retrofit conditions is derived as follows:

Demand (kW) = (Number of Fixtures x Measured Watts per Fixture) ÷ 1000

#### $kW Reduction = kW_{pre} - kW_{post}$

The annual usage (kWh) reduction is determined by taking the difference between the pre- and post-retrofit usage. The usage (kWh) for both conditions is derived as follows:

 $kWh = [(Number of Fixtures x Watts per Fixture) \div 1000] x Annual Operating Hours$ 

 $kWh Savings = kWh_{pre} - kWh_{post}$ 

c. Projected Savings

The following Savings have been calculated by ENGIE Services U.S. from the installation of the Scope of Work and have been reviewed by the Customer.

**Option A Projected Savings Summary** 

Solution Description	Option A Monthly Electric Demand Savings (kW)	Option A Electric Usage Savings (kWh)	Option A Natural Gas Usage Savings (Therms)	Option A Water Usage Savings (kGal)
OES - Electrical, Illumination, + Conservation	74.6	228,102	0	0
DLR - Electrical, Illumination, + Conservation	0	-8	0	0
OHS - Electrical, Illumination, + Conservation	54.8	222,794	0	0
BHC - Electrical, Illumination, + Conservation	23.0	116,393	0	0
DISTRICT TOTALS	152.4	567,281	0	0

- 2. Stipulated Savings: When the cost, complexity, or uncertainty of savings measurements are high as compared to the projected savings, the Customer and ENGIE Services U.S. may agree to stipulate the projected Energy Unit Savings as being achieved, without any measurements being taken.
  - a. For the Stipulated Option, the Energy Unit Savings presented below will be agreed to occur each year of the Contract. During the Construction Period, the Energy Unit Savings will be calculated by adding the savings projected for the whole months between Substantial Completion or Beneficial Use of the EC Measure and the M+V Commencement Date.

Stipulated Ener	gy Unit Savings	s Summary
-----------------	-----------------	-----------

Solution Description	Stipulated Electric Demand Savings (kW)	Stipulated Electric Usage Savings (kWh)	Stipulated Natural Gas Usage Savings (Therms)	Stipulated Water Usage Savings (kGal)
OES - Roofing + Moisture Management Interface	0	4,092	1,820	0
OHS - Roofing + Moisture Management Interface	0	1,147	523	0
OHS - Mechanical + BAS	0	0	194	0
BHC - Mechanical + BAS	1.8	43,065	120	0
DISTRICT TOTALS	1.8	48,304	2,657	0

#### V. Amendment No. 2 Base Energy Rates

EC Savings shall be calculated using the Base Energy Rates or actual energy rates for that meter, whichever results in greater EC Savings. Actual energy rates will be calculated at the end of each Contract year using utility billing information for that Contract Year and using the same methodology as was employed to determine the Base Energy Rate in the Program Development Agreement Report.

The Base Energy Rates listed here are to be increased each year on a cumulative basis by three and a half percent ( $3 \frac{1}{2} \%$ ) beginning on the first anniversary of the M+V Commencement Date and continuing the first day of each Contract Year thereafter.

BUILDING	ELECTRIC DEMAND RATE (\$/kW)	ELECTRIC CONSUMPTION RATE (\$/kWh)	BLENDED NATURAL GAS UTILITY RATE (\$/Therm)	BLENDED WATER + SEWER UTILITY RATE (\$/kGal)
OES	\$7.48	\$0.06269	\$0.63	N/A
DLR	\$7.48	\$0.06269	N/A	N/A
OHS	\$7.48	\$0.06269	\$0.55	N/A
BHC	\$7.48	\$0.06269	\$0.52	N/A

#### VI. Stipulated Non-Energy \$ Savings

The following dollar savings have been calculated by ENGIE from the installation of the EC measures and have been agreed to by the Customer and will not be measured. The sum of these savings each measurement year will be added to the EC savings for that Measurement Year.

	Ne	t Repair		
		and	L	ong Term
	Mai	ntenance	0	perational
Year	S	avings		Savings
1	\$	6,797	\$	605,204
2	\$	7,035	\$	626,386
3	\$	7,281	\$	648,310
4	\$	7,536	\$	671,000
5	\$	7,800	\$	694,486
6	\$	8,073	\$	718,793
7	\$	8,355	\$	743,950
8	\$	8,648	\$	769,988
9	\$	8,950	\$	796,938
10	\$	9,264	\$	824,831
11	\$	9,588	\$	853,700
12	\$	9,923	\$	883,580
13	\$	10,271	\$	914,505
14	\$	10,630	\$	946,512
15	\$	11,002	\$	979,640
16	\$	11,387	\$	1,013,928
17	\$	11,786	\$	1,049,415
18	\$	12,198	\$	1,086,145
19	\$	12,625	\$	1,124,160
20	\$	13,067	\$	1,163,505
Totals	\$	192,217	\$	17,114,977

## ATTACHMENT I GUARANTEED SAVINGS

Attachment I shall be amended to include the following savings for Amendment No. 2 - Scope of Work:

The Guaranteed Savings is identified below:

Year	Ċ	Suaranteed Savings
1	\$	666,043
2	\$	689,355
3	\$	713,482
4	\$	738,454
5	\$	764,300
6	\$	791,050
7	\$	818,737
8	\$	847,393
9	\$	877,051
10	\$	907,748
11	\$	939,519
12	\$	972,403
13	\$	1,006,437
14	\$	1,041,662
15	\$	1,078,120
16	\$	1,115,854
17	\$	1,154,909
18	\$	235,379
19	\$	-
20	\$	-
Totals	\$	15,357,896

Note: Guarantee term ceases when total program

savings meet or exceed the total program costs.

## ATTACHMENT K FINANCIAL PROFORMA

Attachment K shall be amended to include the following Financial Proforma for Amendment No. 2 - Scope of Work:

## Total Project Amount

Estimated Rebates, Incentives, & Grants
Total Amount Financed

\$11,600,000 \$61,682 \$11,538,318

1	2		3		4		5		6
	Net Energy, Repair and		ong Term	Total		F	Estimated		
	intenance		perational		Program		Financing		
Year	Savings		Savings		Savings		Payment	Ne	t Savings
1	\$ 60,839	\$	605,204	\$	666,043	\$	(767,895)	\$	(101,852)
2	\$ 62,968	\$	626,386	\$	689,355	\$	(767,895)	\$	(78,540)
3	\$ 65,172	\$	648,310	\$	713,482	\$	(767,895)	\$	(54,413)
4	\$ 67,453	\$	671,000	\$	738,454	\$	(767,895)	\$	(29,441)
5	\$ 69,814	\$	694,486	\$	764,300	\$	(767,895)	\$	(3,595)
6	\$ 72,258	\$	718,793	\$	791,050	\$	(767,895)	\$	23,155
7	\$ 74,787	\$	743,950	\$	818,737	\$	(767,895)	\$	50,842
8	\$ 77,404	\$	769,988	\$	847,393	\$	(767,895)	\$	79,498
9	\$ 80,113	\$	796,938	\$	877,051	\$	(767,895)	\$	109,157
10	\$ 82,917	\$	824,831	\$	907,748	\$	(767,895)	\$	139,853
11	\$ 85,819	\$	853,700	\$	939,519	\$	(767,895)	\$	171,625
12	\$ 88,823	\$	883,580	\$	972,403	\$	(767,895)	\$	204,508
13	\$ 91,932	\$	914,505	\$	1,006,437	\$	(767,895)	\$	238,542
14	\$ 95,150	\$	946,512	\$	1,041,662	\$	(767,895)	\$	273,767
15	\$ 98,480	\$	979,640	\$	1,078,120	\$	(767,895)	\$	310,225
16	\$ 101,927	\$	1,013,928	\$	1,115,854	\$	(767,895)	\$	347,960
17	\$ 105,494	\$	1,049,415	\$	1,154,909	\$	(767,895)	\$	387,014
18	\$ 109,186	\$	1,086,145	\$	1,195,331	\$	(767,895)	\$	427,436
19	\$ 113,008	\$	1,124,160	\$	1,237,168	\$	(767,895)	\$	469,273
20	\$ 116,963	\$	1,163,505	\$	1,280,469	\$	(767,895)	\$	512,574
Totals	\$ 1,720,508	\$	17,114,977	\$	18,835,484	\$	(15,357,896)	\$	3,477,588

## Notes By Column:

- (1) Years after implementing improvements
- (2) & (3) Escalated annually to account for inflation by 3.5%
  - (3) Based upon expected useful life of existing sytems and stipulated calculations
  - (4) Sum of Columns (2) and (3) utilizing IPMVP Option A and stipulated calculations
  - (5) Based upon 20-year term and estimated annual interest rate of 3.00% as provided by the District's Municipal Advisor
  - (6) Sum of Columns (4) and (5)Guarantee term ceases when program savings meet or exceed program costs

The changes within are hereby authorized, subject to the terms and conditions of the Energy Services Contract referenced above by and between **ENGIE Services U.S. Inc.** and **Customer**. All other terms and conditions of the certain Customer Contract referenced above shall remain unchanged.

#### BOARD OF EDUCATION OF OREGON COMMUNITY UNIT SCHOOL DISTRICT 220, OGLE COUNTY, ILLINOIS

ENGIE SERVICES U.S. INC.

Ву:	Ву:
Print Name:	Print Name:
Title:	Title:

RETURN EXECUTED ORIGINALS TO: ENGLE Services U.S. Inc., 12980 Foster Street, Suite 400, Overland Park, KS 66213, Attn: Legal Department