

July 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4 <i>JULY 4TH</i> 
5	6 SPECIAL CIVIL SERVICE MTG. 4:00 (COMMUNITY ROOM #2)	7 COUNCIL AND CAUCUS 7:00 STORM WATER, STREETS AND UTILITIES 6:00	8 PLANNING COMMISSION 7:00 CAUCUS 6:45	9	10	11
12	13 CIVIL SERVICE COMM 4:00 (COMMUNITY ROOM #2)	14	15 FAIR HOUSING BOARD MTG 5:00 (COMMUNITY ROOM #1)	16	17	18
19	20	21 COUNCIL AND CAUCUS 7:00 B&BC, FINANCE AND SAFETY AND SPECIAL R&O 6:00	22	23 BOARD OF ZONING APPEALS 7:00 CAUCUS 6:45	24	25
26	27	28 RECREATION BOARD 6:00	29	30	31	

All meetings will be held at City Hall 14600 State Road, unless otherwise noted.

**NORTH ROYALTON CITY COUNCIL
A G E N D A
JULY 7, 2020**

7:00 p.m. Caucus

Council Meeting 7:00 p.m.

REGULAR ORDER OF BUSINESS

1. Call to Order.
2. Opening Ceremony (Pledge of Allegiance).
3. Roll Call.
4. Approval of Consent Agenda: Items listed under the Consent Agenda are considered routine. Each item will be read individually into the record and the Consent Agenda will then be enacted as a whole by one motion and one roll call. There will be no separate discussion of these items. If discussion by Council is desired on any Consent Agenda item, or if discussion is requested by the public on any legislative item on the Consent Agenda, that item will be removed from the Consent Agenda and considered in its normal sequence under the Regular Order of Business.
 - a. Approval of Minutes: June 16, 2020 and Special Council Work Session and Special Council Meeting of June 30, 2020.
 - b. Motion to recess Council and Committee meetings for the month of August 2020.
 - c. Receipt and acknowledgement without objection to Ohio Dept. of Liquor Control request for a new D1, permit for Manta United LLC, 10701 Royalton Road, Ste G, North Royalton, Ohio 44133.
5. Communications.
6. Mayor's Report.
7. Department Head Reports.
8. President of Council's Report.
9. Committee Reports:

Building & Building Codes	Linda Barath
Finance	Paul Marnecheck
Review & Oversight	Jeremy Dietrich
Safety	
Storm Water	Jessica Fenos
Streets	Vincent Weimer
Utilities	Mike Vos
10. Report from Council Representatives to regulatory or other boards:

Board of Zoning Appeals	
Planning Commission	Paul Marnecheck
Recreation Board	Jeremy Dietrich
11. Public Discussion: Five minute maximum, on current agenda legislation only.
12. LEGISLATION

THIRD READING CONSIDERATION

1. **20-79 - AN ORDINANCE AUTHORIZING THE MAYOR TO ACCEPT THE BID OF TRANSPORT SERVICES INC. AND THERRIEN PROPERTIES FOR THE PURCHASE OF CERTAIN REAL PROPERTY KNOWN AS PPN 483-23-011 PURSUANT TO OHIO REVISED CODE CHAPTER 721 AND ORDINANCE 20-46 FOR THE SUM OF \$350,000, AND DECLARING AN EMERGENCY. First reading May 5, 2020. Second reading May 19, 2020.**

FIRST READING CONSIDERATION

1. **20-91**- AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON A CERTAIN AMENDMENT TO ARTICLE III, THE COUNCIL, OF THE CHARTER OF THE CITY OF NORTH ROYALTON IN ORDER TO ALLOW COUNCIL TO MEET REMOTELY OR POSTPONE MEETINGS DURING DECLARED EMERGENICES THAT ENCOMPASS THE CITY OF NORTH ROYALTON, AND DECLARING AN EMERGENCY.
2. **20-92** - AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON AN AMENDMENT TO THE CHARTER OF THE CITY OF NORTH ROYALTON CREATING A NEW ARTICLE VII, DEPARTMENT OF PUBLIC SAFETY AND REPEALING THE EXISTING ARTICLE VII, POLICE AND FIRE DEPARTMENT IN ORDER TO ESTABLISH A MODERN SAFETY DEPARTMENT AND ALLOW FOR A LARGER POOL OF QUALIFIED CANDIDATES FOR FIRE AND POLICE CHIEFS, AND DECLARING AN EMERGENCY.
3. **20-93** - AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON A CERTAIN AMENDMENT TO “ARTICLE X MUNICIPAL CEMETERY” OF THE CHARTER OF THE CITY OF NORTH ROYALTON IN ORDER TO PROPERLY IDENTIFY THE OFFICER RESPONSIBLE FOR THE ADMINISTRATION OF THE MUNICIPAL CEMETERY, AND DECLARING AN EMERGENCY.
4. **20-94** - AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON A CERTAIN AMENDMENT TO ARTICLE XVI, FINANCE, OF THE CHARTER OF THE CITY OF NORTH ROYALTON IN ORDER TO ALLOW COUNCIL THE DISCRETION TO WAIVE PUBLIC BIDDING IN THE EVENT OF AN EMERGENCY AND TO SELECT THE LOWEST AND/OR BEST BIDDER WHEN APPROPRIATE, AND DECLARING AN EMERGENCY.
5. **20-95** - AN ORDINANCE ACCEPTING THE BID OF BROWN AND CALDWELL FOR THE NORTH ROYALTON WASTEWATER TREATMENT PLANT “A” BLOWER BUILDING, CONTROL BUILDING AND MISCELLANEOUS IMPROVEMENT PROJECT FOR AN AMOUNT NOT TO EXCEED \$5,873,400.00 AS THE LOWEST AND BEST BID, CONTINGENT UPON BEING APPROVED FOR A LOAN FROM THE OHIO WATER DEVELOPMENT AUTHORITY, AND DECLARING AN EMERGENCY.
6. **20-96** - AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE AND RECORD DEEDS TRANSFERRING PERMANENT PARCEL NUMBERS 481-12-095 (YORK ROAD), 482-03-004 (POTOMAC), 484-17-016 (KINGSTON WAY), 489-30-012 (APOLLO DRIVE), AND 489-31-037 (APOLLO DRIVE) FROM THE NORTH ROYALTON LAND REUTILIZATION PROGRAM TO THE CITY OF NORTH ROYALTON, AND DECLARING AN EMERGENCY.
7. **20-97** - AN ORDINANCE AMENDING THE CODIFIED ORDINANCES OF THE CITY OF NORTH ROYALTON, PART TWO ADMINISTRATION CODE, CHAPTER 214 GENERAL FEE SCHEDULE, SECTION 214.06 FEES IN THE STREETS, UTILITIES AND PUBLIC SERVICES CODE, PARAGRAPH (j), AND DECLARING AN EMERGENCY.
13. Miscellaneous.
14. Adjournment.

AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON A CERTAIN AMENDMENT TO ARTICLE III, THE COUNCIL, OF THE CHARTER OF THE CITY OF NORTH ROYALTON IN ORDER TO ALLOW COUNCIL TO MEET REMOTELY OR POSTPONE MEETINGS DURING DECLARED EMERGENICES THAT ENCOMPASS THE CITY OF NORTH ROYALTON, AND DECLARING AN EMERGENCY

- WHEREAS: Article III of the Charter mandates that Council meet twice per month and provides no alternative even in the event of an emergency; and
- WHEREAS: Recent events have provided an abject lesson in the need for flexibility in the requirement of regular meeting and the ability to employ modern technology to allow the Council to meet its’ obligations to fulfill its’ duties in non-traditional style meetings during emergencies; and
- WHEREAS: The 2020 North Royalton Charter Review Commission has determined to provide a ballot issue to allow City Council the authority to meet remotely or suspend or postpone meetings during declared emergencies that include the City of North Royalton; and
- WHEREAS: This amendment will serve to allow the Council flexibility as described above; and
- WHEREAS: In order to provide for the above it is necessary to recommend amending Article III, The Council, Section (f) Meetings of the Charter of the City of North Royalton; and
- WHEREAS: Pursuant to Article XVIII, Subsection (f) of the Charter, the Council is obligated to submit the Charter Review Commission recommendations to the electors.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Pursuant to Article XVIII, Section 9 of the Ohio Constitution and Article XVIII, Section (f) of the Charter of the City of North Royalton, the Council hereby authorizes and directs the submission to the electors of the City of North Royalton, at an election to be held in usual places of voting in said city on November 3, 2020, an amendment to Article III, The Council, Section (f) Meetings of the Charter of the City of North Royalton which shall upon adoption read as follows:

ARTICLE III THE COUNCIL

- (f) MEETINGS.
The Council shall meet at the Municipal Building of the Municipality at such time as may be prescribed by ordinance or resolution, ~~but~~ **and** shall meet at least twice each month, except that the Council may designate one month in the summer season for vacation. Meetings of the Council shall be open to the public in accordance with State law, with the exception of Executive Sessions, which shall only be permitted in accordance with the provisions set forth in the Codified Ordinances of the City of North Royalton, or in the laws of the State of Ohio. ***In the event of a declared emergency that encompasses the City of North Royalton, Council retains the authority to meet remotely or suspend or postpone its meetings until practicable.***
- Public Hearings conducted by Council, and notice for same, shall be handled in such manner as Council may by Ordinance provide.

Section 2. The ballot for said question shall be in substantially the following form:

PROPOSED CHARTER AMENDMENT
A majority affirmative vote is necessary for passage.

SHALL THE CHARTER OF THE CITY OF NORTH ROYALTON, ARTICLE III, THE COUNCIL, SECTION (f) MEETINGS BE AMENDED TO ALLOW COUNCIL TO MEET REMOTELY OR SUSPEND OR POSTPONE MEETINGS DURING DECLARED EMERGENICES THAT ENCOMPASS THE CITY OF NORTH ROYALTON?

	YES
	NO

Section 4. The Director of Legislative Services in her capacity as Clerk of Council is hereby authorized and directed to deliver immediately to the Board of Elections a certified copy of this Ordinance.

Section 6. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

THEREFORE, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

NAYS:

AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON AN AMENDMENT TO THE CHARTER OF THE CITY OF NORTH ROYALTON CREATING A NEW ARTICLE VII, DEPARTMENT OF PUBLIC SAFETY AND REPEALING THE EXISTING ARTICLE VII, POLICE AND FIRE DEPARTMENT IN ORDER TO ESTABLISH A MODERN SAFETY DEPARTMENT AND ALLOW FOR A LARGER POOL OF QUALIFIED CANDIDATES FOR FIRE AND POLICE CHIEFS, AND DECLARING AN EMERGENCY

WHEREAS: The existing Article VII is largely the work product of the original Charter Commission in 1952 when North Royalton was a village; and

WHEREAS: The existing Article VII mandates that the Chiefs of the Police and Fire Departments be chosen only from within the department and only from between the two such candidates scoring highest on an examination; and

WHEREAS: The needs of a city of over thirty thousand people for a modern, professional safety department call for the Mayor to be able to select Fire and Police Chiefs of the highest professional caliber from the largest available pool of qualified candidates; and

WHEREAS: The 2020 North Royalton Charter Review Commission has determined to provide a ballot issue to both repeal the existing Article VII and replace it with a new Article VII to allow for the Mayor to choose both Fire and Police Chiefs from the largest available pool of qualified candidates to serve at his pleasure and subject to confirmation by Council and; and

WHEREAS: In order to provide for the above it is necessary to repeal Article VII Police and Fire Department, and adopt the new Article VII Department of Public Safety; and

WHEREAS: Pursuant to Article XVIII, Subsection (f) of the Charter, the Council is obligated to submit the Charter Review Commission recommendations to the electors.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Pursuant to Article XVIII, Section 9 of the Ohio Constitution and Article XVIII, Section (f) of the Charter of the City of North Royalton, the Council hereby authorizes and directs the submission to the electors of the City of North Royalton, at an election to be held in usual places of voting in said city on November 3, 2020, the repeal of Article VII, Police and Fire Department and adoption of Article VII, Department of Public Safety of the Charter of the City of North Royalton which shall, upon adoption, read as follows:

~~ARTICLE VII POLICE AND FIRE DEPARTMENT~~

~~(a) COMPOSITION~~

~~There shall be a Police Department, which shall be composed of the Chief of Police and such other officers, policemen and deputies as may from time to time be provided by ordinance of the Council, and a Fire Department, which shall be composed of the Chief of the Fire Department and such other officers and firemen, on a full or part time basis, as may from time to time be provided by ordinance of the Council.~~

~~(b) CHIEFS; APPOINTMENT; VACANCY.~~

~~The Chief of Police and the Chief of the Fire Department shall be appointed by the Mayor from the ranks of the respective departments, in the manner hereinafter provided. When either office shall for any reason become vacant a suitable examination shall be given by and under the direction of the Civil Service Commission, to such members of the department who have obtained the rank of sergeant or higher, and desire to be considered therefor. The Mayor shall make the appointment from among the two persons receiving the highest grade on the examination and certified as such by the Civil Service Commission. Such appointment to be subject to confirmation by the majority vote of the members elected to Council. Such appointee shall serve during good behavior, as is hereafter provided.~~
~~(11-7-67)~~

~~(c) CHIEFS; REMOVAL.~~

~~The Council may remove the Chief of Police or the Chief of the Fire Department for gross misconduct or malfeasance, misfeasance, or nonfeasance in or disqualification for office or conviction while in office of a crime involving moral turpitude; provided, however, that such removal shall not take place without the concurrence of two thirds (2/3) of the members elected to Council. In addition thereto, the~~

~~Council may remove the Chief of Police or the Chief of the Fire Department from office for any cause deemed by it sufficient upon the concurrence of three fourths (3/4) of the members elected to Council. In the event removal of the Chief of Police or the Chief of the Fire Department is sought for any cause, such official shall be notified in writing of the charge against him or her at least ten (10) days in advance of any hearing upon such charge and he or she or his or her counsel shall be given an opportunity to be heard, present evidence and examine any witnesses appearing in support of such charge. The resolution removing such official shall set forth in full reasons therefor. (11-4-97)~~

(d) ~~EXISTING CHIEFS.~~

~~The persons holding the offices of Chief of Police and Chief of the Fire Department at the time of the taking effect of this Charter shall not be required to be reappointed hereunder, but shall continue to hold such offices, subject to all provisions and terms herein: but further provided, that until such time as the Council shall by ordinance provide and establish a Fire Department having a full time Chief, the Chief of the Fire Department shall be appointed by the Mayor with the concurrence of a majority of the members elected to Council and may be removed by the Mayor at any time for any cause with the concurrence of two thirds (2/3) of the members elected to Council.~~

(e) ~~APPOINTMENTS, FULL TIME, FIRE DEPARTMENT.~~

~~When the Council, pursuant to paragraph (a) of this Article, establishes one or more full time positions in the Fire Department, original appointments to such full time positions as are initially established by the Council and to any additional full time positions created within 730 days following the establishment of the initial full time positions together with appointment to any vacancy occurring in any such position occurring within 730 days following the establishment of the initial full time positions, shall be made pursuant to competitive Civil Service examinations among the then members of the Volunteer Fire Department of the Municipality without limitation as to the age of the applicant; except that the first original appointments to full time positions shall be appointments to the full time positions of Chief and subordinate officers and during such 730 day period appointments to the positions of Chief and subordinate officers shall be made directly by majority vote of the members of Council from among the then members of the Volunteer Fire Department without competitive examination and without limitation as to the age of the appointee. Such examinations shall be administered and graded in the manner provided in Article XI of this Charter. The eligibility list resulting from the examinations shall remain in force until all applicants receiving a passing grade have received or declined appointments or until the expiration of said 730 days, whichever occurs first.~~

~~If the eligibility list resulting from examinations under this paragraph (e) is exhausted prior to the expiration of said 730 days, a subsequent eligibility list may be established in the manner provided for the original eligibility list. If no eligibility list results from examinations given pursuant to this paragraph, then such appointments in the Fire Department shall be made pursuant to Article XI. Following the expiration of said 730 days, appointments to full time positions shall be made pursuant to Article XI.~~

~~Appointments to full time positions in the Fire Department shall be original appointments and shall not be considered promotions from Volunteer Fireman. To the extent possible, officers of the Fire Department shall be full time firemen. (11-8-60)~~

(f) ~~APPOINTMENTS; PAID CALL FIREFIGHTER.~~

~~Appointments to the position of Paid Call Firefighter shall be made in the manner prescribed by ordinance of Council, and shall not be subject to Civil Service. (11-3-81; 11-4-97)~~

ARTICLE VII DEPARTMENT OF PUBLIC SAFETY

(a) **DIRECTOR OF PUBLIC SAFETY.**

The Mayor may appoint a Director of Public Safety subject to confirmation by a majority of the members of City Council. The Director of Public Safety shall have charge of the Department of Public Safety. The Director of Public Safety shall supervise both the Division of Fire and the Division of Police, shall approve of and is responsible for the enforcement all necessary rules and regulations for the governance of the Department. The Director of Public Safety shall perform such other duties as may be required by this Charter, by ordinance or as directed by the Mayor. In the absence of a Director all such duties and obligations of Safety Director shall be the responsibility of the Mayor.

(b) **DIVISIONS.**

The Department of Public Safety shall consist of the following Divisions:

- (i) *The Division of Fire*
- (ii) *The Division of Police*

- (c) **DIVISION OF FIRE.**
The Division of Fire shall be headed by a Fire Chief who shall have active charge of and responsibility for organization and operation of said Division. All appointments to the Division, except the Chief, shall be made in accord with the Civil Service Rules and Regulations of the City of North Royalton.

- (d) **DIVISION OF POLICE.**
The Division of Police shall be headed by a Police Chief who shall have active charge of and responsibility for organization and operation of said Division. All appointments to the Division, except the Chief, shall be made in accord with the Civil Service Rules and Regulations of the City of North Royalton.

- (e) **APPOINTMENT OF FIRE CHIEF AND POLICE CHIEF.**
The Fire Chief and the Police Chief shall be appointed by the Mayor from among those qualified candidates who apply. Such appointment is subject to confirmation by a majority of the members of City Council. Such appointee shall serve at the pleasure of the Mayor. The Mayor may select a chief from within or without the Division of Fire or Division of Police, respectively. Any candidate selected must have had at least ten (10) years of experience in the profession. A candidate selected from within the Division may choose, upon removal, to be reinstated to that individual's former rank with full benefits within fourteen (14) days of removal. In the event of a vacancy in the office of chief said position shall be filled in the same manner as provided for original appointment.

Section 2. The ballot for said question shall be in substantially the following form:

PROPOSED CHARTER AMENDMENT
A majority affirmative vote is necessary for passage.

SHALL THE CHARTER OF THE CITY OF NORTH ROYALTON BE AMENDED TO REPEAL ARTICLE VII, POLICE AND FIRE DEPARTMENTS AND ADOPT NEW ARTICLE VII, DEPARTMENT OF PUBLIC SAFETY.

	YES
	NO

Section 3. The foregoing proposed amendment, if approved by a majority of the electors voting thereon at the aforesaid election to be held on November 3, 2020, shall become a part of the Charter of this city and shall be effective as of the date that said amendment or amendments have been certified by the Cuyahoga County Board of Elections as having been approved by a majority of the voters.

Section 4. The Director of Legislative Services in her capacity as Clerk of Council is hereby authorized and directed to deliver immediately to the Board of Elections a certified copy of this Ordinance.

Section 5. The Director of Legislative Services in her capacity as Clerk of Council is hereby authorized and directed, pursuant to laws passed by the General Assembly, to give notice of these proposed amendments by newspaper advertising.

Section 6. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 7. This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that this Ordinance must be effective immediately in order to permit necessary arrangements to be made in sufficient time for said election.

THEREFORE, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

_____	APPROVED: _____
PRESIDENT OF COUNCIL	MAYOR

DATE PASSED: _____	DATE APPROVED: _____
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ATTEST: _____
DIRECTOR OF LEGISLATIVE SERVICES

YEAS:

NAYS:

AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON A CERTAIN AMENDMENT TO “ARTICLE X MUNICIPAL CEMETERY” OF THE CHARTER OF THE CITY OF NORTH ROYALTON IN ORDER TO PROPERLY IDENTIFY THE OFFICER RESPONSIBLE FOR THE ADMINISTRATION OF THE MUNICIPAL CEMETERY, AND DECLARING AN EMERGENCY

- WHEREAS: The 2020 North Royalton Charter Review Commission has determined to provide a ballot issue to properly identify the officer responsible for the administration of the Municipal Cemetery; and
- WHEREAS: For many years the actual day-to-day responsibility for the operation and administration of the municipal cemeteries is placed with the city’s Director of Municipal Parks, Properties, Cemeteries and Recreation; and
- WHEREAS: The existing language identifies the Director of Public Service as the responsible officer; and
- WHEREAS: This amendment will serve to correct the language and properly identify the officer responsible for the administration of the municipal cemetery; and
- WHEREAS: In order to provide for the above it is necessary to recommend amending Article X Municipal Cemetery of the Charter of the City of North Royalton, and
- WHEREAS: Pursuant to Article XVIII, Subsection (f) of the Charter, the Council is obligated to submit the Charter Review Commission recommendations to the electors.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Pursuant to Article XVIII, Section 9 of the Ohio Constitution and Article XVIII, Section (f) of the Charter of the City of North Royalton, the Council hereby authorizes and directs the submission to the electors of the City of North Royalton, at an election to be held in usual places of voting in said city on November 3, 2020, an amendment to Article X Municipal Cemetery of the Charter of the City of North Royalton which shall upon adoption read as follows:

ARTICLE X MUNICIPAL CEMETERY

The Council shall have the power by ordinance to provide, expand and establish fees and costs to maintain lands for a Municipal Cemetery. The ~~Director of Public Service~~ **Director of Municipal Parks, Properties, Cemeteries and Recreation** shall be responsible for the administration of the Municipal Cemetery.

Section 2. The ballot for said question shall be in substantially the following form:

PROPOSED CHARTER AMENDMENT
A majority affirmative vote is necessary for passage.

SHALL THE CHARTER OF THE CITY OF NORTH ROYALTON, ARTICLE X MUNICIPAL CEMETERY BE AMENDED TO PROPERLY IDENTIFY THAT THE DIRECTOR OF MUNICIPAL PARKS, PROPERITIES, CEMETERIES AND RECREATION SHALL BE RESPONSIBLE FOR THE ADMINISTRATION OF THE MUNICIPAL CEMETERY?

	YES
	NO

Section 3. The foregoing proposed amendment, if approved by a majority of the electors voting thereon at the aforesaid election to be held on November 3, 2020, shall become a part of the Charter of this city and shall be effective as of the date that said amendment or amendments have been certified by the Cuyahoga County Board of Elections as having been approved by a majority of the voters.

Section 4. The Director of Legislative Services in her capacity as Clerk of Council is hereby authorized and directed to deliver immediately to the Board of Elections a certified copy of this Ordinance.

Section 5. The Director of Legislative Services in her capacity as Clerk of Council is hereby authorized and directed, pursuant to laws passed by the General Assembly, to give notice of these proposed amendments by newspaper advertising.

Section 6. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 7. This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that this Ordinance must be effective immediately in order to permit necessary arrangements to be made in sufficient time for said election.

THEREFORE, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

_____	APPROVED: _____
PRESIDENT OF COUNCIL	MAYOR

DATE PASSED: _____	DATE APPROVED: _____
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ATTEST: _____
DIRECTOR OF LEGISLATIVE SERVICES

YEAS:

NAYS:

AN ORDINANCE PROVIDING FOR THE SUBMISSION TO THE ELECTORS OF THE CITY OF NORTH ROYALTON A CERTAIN AMENDMENT TO ARTICLE XVI, FINANCE, OF THE CHARTER OF THE CITY OF NORTH ROYALTON IN ORDER TO ALLOW COUNCIL THE DISCRETION TO WAIVE PUBLIC BIDDING IN THE EVENT OF AN EMERGENCY AND TO SELECT THE LOWEST AND/OR BEST BIDDER WHEN APPROPRIATE, AND DECLARING AN EMERGENCY

WHEREAS: The 2020 North Royalton Charter Review Commission has determined to submit a ballot issue to grant City Council the authority to respond swiftly in the event of an emergency and waive public bidding in limited circumstances and, where public bidding is employed, to allow City Council the authority to choose the bidder which is “lowest and/or best” as Council shall determine; and

WHEREAS: The Constitution of the State of Ohio allows Chartered Municipalities to order their own communities to suit their own local circumstances and to vary from the state laws in certain instances if they choose to do so; and

WHEREAS: The state statutes do not provide city councils with the emergency authority to waive public bidding nor to allow council the discretion to select a bid that is “lowest and/or best”; and

WHEREAS: This amendment will allow City Council the authority in the case of emergencies to waive public bidding to respond in a timely manner to any such emergency and, in cases where bidding is employed, to select the “lowest and/or best” bid; and

WHEREAS: In order to provide for the above it is necessary to recommend amending Article XVI, Finance, Section (h) Public Bidding of the Charter of the City of North Royalton; and

WHEREAS: Pursuant to Article XVIII, Subsection (f) of the Charter, the Council is obligated to submit the Charter Review Commission recommendations to the electors.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Pursuant to Article XVIII, Section 9 of the Ohio Constitution and Article XVIII, Section (f) of the Charter of the City of North Royalton, the Council hereby authorizes and directs the submission to the electors of the City of North Royalton, at an election to be held in usual places of voting in said city on November 3, 2020, an amendment to Article XVI, Finance, Section (h) Public Bidding of the Charter of the City of North Royalton which shall upon adoption read as follows:

ARTICLE XVI FINANCE

(h) PUBLIC BIDDING

The Council may authorize, in specific cases, expenditures of the funds of the Municipality without public biddings; ***in the instance of an emergency that significantly affects the duties and obligations of the municipality***, for the acquisition of real estate, for the discharge of noncontractual claims against the Municipality, for personal services, for the joint use of facilities or exercise of power with other political subdivisions, or for the product or services of public utilities (including those Municipally operated). ~~But~~ No other expenditures in excess of the amount allowed by Section 733.22, 735.05 and 737.03 and other pertinent sections of the Ohio Revised Code shall be made except pursuant to contracts made with the lowest and/or best bidder after public advertising and receipt of bids in the manner provided by ordinance. Nothing herein shall be construed to require Council to accept any bid.

Section 2. The ballot for said question shall be in substantially the following form:

PROPOSED CHARTER AMENDMENT

A majority affirmative vote is necessary for passage.

SHALL THE CHARTER OF THE CITY OF NORTH ROYALTON, ARTICLE XVI FINANCE (h) PUBLIC BIDDING BE AMENDED TO AUTHORIZE CITY COUNCIL IN EMERGENCY CIRCUMSTANCES TO WAIVE THE REQUIREMENT OF PUBLIC BIDDING TO RESPOND RAIDLY TO THAT EMERGENCY AND, WHERE PUBLIC BIDDING IS EMPLOYED, TO ALLOW CITY COUNCIL TO CHOOSE THE LOWEST AND/OR BEST BID WHERE APPROPRIATE?

	YES
	NO

Section 3. The foregoing proposed amendment, if approved by a majority of the electors voting thereon at the aforesaid election to be held on November 3, 2020, shall become a part of the Charter of this city and shall be effective as of the date that said amendment or amendments have been certified by the Cuyahoga County Board of Elections as having been approved by a majority of the voters.

Section 4. The Director of Legislative Services in her capacity as Clerk of Council is hereby authorized and directed to deliver immediately to the Board of Elections a certified copy of this Ordinance.

Section 5. The Director of Legislative Services in her capacity as Clerk of Council is hereby authorized and directed, pursuant to laws passed by the General Assembly, to give notice of these proposed amendments by newspaper advertising.

Section 6. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 7. This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that this Ordinance must be effective immediately in order to permit necessary arrangements to be made in sufficient time for said election.

THEREFORE, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PRESIDENT OF COUNCIL

APPROVED:

MAYOR

DATE PASSED:

DATE APPROVED:

ATTEST:

DIRECTOR OF LEGISLATIVE SERVICES

YEAS:

NAYS:

AN ORDINANCE ACCEPTING THE BID OF BROWN AND CALDWELL FOR THE NORTH ROYALTON WASTEWATER TREATMENT PLANT “A” BLOWER BUILDING, CONTROL BUILDING AND MISCELLANEOUS IMPROVEMENT PROJECT FOR AN AMOUNT NOT TO EXCEED \$5,873,400.00 AS THE LOWEST AND BEST BID, CONTINGENT UPON BEING APPROVED FOR A LOAN FROM THE OHIO WATER DEVELOPMENT AUTHORITY, AND DECLARING AN EMERGENCY

WHEREAS: The City of North Royalton has advertised for bids for the North Royalton Wastewater Treatment Plant “A” Blower Building, Control Building and Miscellaneous Improvement Project; and

WHEREAS: It has been determined that the bid of Brown and Caldwell for an amount not to exceed \$5,873,400.00 is the lowest and best bid; and

WHEREAS: The city has applied to the Ohio Water Development Authority (OWDA) for a loan to finance the costs of this project; and

WHEREAS: Council desires to accept this bid contingent upon being approved for the OWDA loan.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Council hereby accepts the bid of Brown and Caldwell for the North Royalton Wastewater Plant “A” Blower Building, Control Building and Miscellaneous Improvement Project for an amount not to exceed \$5,873,400.00 as the lowest and best bid as outlined in Exhibit A attached hereto, contingent upon being approved for the loan from the OWDA.

Section 2. The Mayor is hereby authorized to enter into a contract with Brown and Caldwell in a form approved by the Director of Law.

Section 3. The Wastewater Superintendent is hereby authorized and directed to forward a certified copy of this Ordinance to Brown and Caldwell and all certified checks and bonds are hereby authorized to be returned to the unsuccessful bidders.

Section 4. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 5. This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that it is immediately necessary to accept the bid of Brown and Caldwell for the North Royalton Wastewater Plant “A” Blower Building, Control Building and Miscellaneous Improvement Project so that this work may commence, contingent upon being approved for the loan from the OWDA.

THEREFORE, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PRESIDENT OF COUNCIL

APPROVED: _____

MAYOR

DATE PASSED: _____

DATE APPROVED: _____

ATTEST: _____

DIRECTOR OF LEGISLATIVE SERVICES

YEAS:

NAYS:

T: 216.606.1300



June 17, 2020

Mark Smith
City of North Royalton
11675 Royalton Road
North Royalton, Ohio 44133

Subject: EOPCC update

Dear Mr. Smith

Attached is the updated Engineer's Opinion of Probable Construction Cost (EOPCC) for the North Royalton WWTP 'A' Blower Building, Control Building and Miscellaneous Improvement Project. The EOPCC has been updated to reflect the following scope changes to the Project:

- Relocation of the ferric chloride tanks
- Modifications to the men's locker room to accommodate more staff
- New eyewash station at the Filter Building
- Various I&C component replacements

The overall project cost has identified a savings as a result of moving the ferric chloride feed system into the Operations Buildings even with the additional expenses for altering the Operations Building (new roof, removable FRP panel walls, new HVAC systems, etc.). The subtotal for construction is estimated to be \$4.6 mil without allowances.

The allowances account for nearly \$1 mil of work under this project and are used to better control cost for unit price concrete repair work, provide a mechanism to pay for electric utility, and address a few individual scope items added to the project. The project allowances are as identified below:

General Allowance: \$250,000

For payment of any unforeseen work items other than as specified or shown on the Contract Drawings. This allowance may be used for field orders to address additional plant needs and BC will have the ability to review contractor costing to recommend if the price is fair market value prior to authorization using these funds.

Aeration Tank Repairs: \$113,000

This allowance will be used for concrete crack and spall repair of the aeration tanks walkways and walls. The contractor will provide a unit cost for each type of repair as part of their bid to control cost.

Electric Utilities: \$60,000

For payment to The Illuminating Company for work related to the installation of the new utility transformer, power conductors, and power pole. The invoice will be sent to the contractor without markup and paid through the project.

Wiring Unlimited (WUL) PLC Replacements: \$730,000

This scope of work was negotiated by the city to include upgrade of 5 PLCs, fiber optics, network cabinets, and new SCADA computer hardware throughout the plant. The previous I&C budgetary estimate was limited to the work in the Operations “Blower” Building and did not include the upgrades for the other buildings. The original estimate was estimated at \$100,000 for the limited scope.

WUL BACNet retrofit: \$23,400

For installation of BACnet communications interfaces on the two existing RTU’s in the Administration Building.

Furniture purchasing: \$60,000

Lastly for the purchase of office furniture for the Administration and Control Buildings. Similar to electric utility allowance, the City can purchase new furniture and submit the invoice to the contractor to be paid through the contract.

Total project cost as to advertised will be a lump sum amount for general construction \$5,873,400.00. This value includes all allowances and a 5% contingency for unforeseen conditions related to scoped items. We would be happy to address any questions and look forward to supporting the City into bidding and construction.

Very truly yours,

Brown and Caldwell

Michael Garnes, Project Manager

cc: Tony Blanc, Brown and Caldwell

Attachments (1)

- Attachment A: 100% EOPCC

ATTACHMENT A

100% EOPCC

City of North Royalton
Operations Building, Control Building and Miscellaneous Improvements
100% Design
General Comments

GENERAL COMMENTS

- 1 The Engineer's Opinion of Probable Construction Cost (EOPCC) for this 100% Design Estimate includes labor, equipment, materials, tools, supervision, and incidentals for the proposed construction project.
- 2 The total cost for the Project is anticipated to be in the range noted on the Summary page in December 2019 dollars escalated through the anticipated mid point of construction of February 2021. The single point estimate is for the detailed costs as prepared and itemized by major component.
- 3 Labor rates are based on Cuyahoga County Davis Bacon prevailing wages and fringe benefits as of December 2019.
- 4 An allowance for General Contractor Overhead & Profit of 10% has been applied to the sum of Labor Cost + Construction Equipment Cost + Material Cost + Engineered Equipment Cost for work performed by the General Contractor. 15% for Overhead and Profit has been applied for work to be performed by the Mechanical, Electrical and Plumbing Contractors.
- 5 This opinion of probable construction cost includes a contingency of 5% at the 100% Design stage of project definition. Based on the level of project definition, the AACE recommended practice suggests the expected accuracy range to be -10% to +10% for this Class 2 estimate. The contingency considers the level of engineering and design documentation available at the time the opinion of cost is prepared, pricing uncertainty related to local construction market competitive conditions at the time of bid and pricing uncertainty related to the contractor's assessment of project risks.
- 6 General Conditions are included at 10% of the Construction Cost.
- 7 Throughout this document each building will be referred to by the following acronyms:
 - AB Administration Building
 - CB Control Building
 - OB Operations Building
 - AT Aeration Tanks
 - FB Filter Building
- 8 The estimate is based on 100% drawings, specifications and budget information provided by Brown & Caldwell.

Clarifications :

DIVISION 2 - EXISTING CONDITIONS

- 1 We assume hazardous material abatement is not required nor included.
- 2 Demolition of existing roofs is included at the Administration and Control Buildings.
- 3 Demolition of existing walls, doors, and finishes is included as indicated.
- 4 Demolition of existing Operations Building recessed Storage area floor slab, steps and railings is included to allow for the new level floor for the new Electrical equipment in this area.

DIVISION 3 - CONCRETE

- 1 Removing spalled concrete and patching floor is included at the Operations Building.
- 2 New 6" SOG over 3' aggregate base and turn downs doweled into existing slab along the exterior perimeter is included at the Operations Building recessed Storage OB-101.
- 3 3'-6" thick CIP foundation pad with varying height walls is included at the new Containment Area.
- 4 Existing Aeration tank concrete repairs are included per the Repair Quantity Table on S-00-003.

DIVISION 4 - MASONRY

- 1 New interior walls at the Control Building are included as 6" CMU at an assumed height of 11 feet.
- 2 Masonry Infill at existing exterior and interior doorways is included at the Control Building.
- 3 Exterior and interior opening masonry infills with tooth-ins to match existing masonry are included at the Operations Building.

DIVISION 5 - METALS

- 1 Replacing existing exterior stair handrails with new aluminum wall mounted handrails is included.
- 2 Rooftop guardrail is included at the Administration and Control Buildings as galvanized steel pipe.
- 3 New roof access ladder including walk-over platform is included at the Operations Building.

- 4 Aeration Tank area pipe supports are included as carbon steel HSS 6x6x3/8" Columns & Beams, including base plates.

DIVISION 6 - WOOD, PLASTIC AND COMPOSITE

- 1 Rough blocking for new roofing and metal coping is included.
- 2 FRP Grating, including framing is included at the Aeration Tanks new Containment Area.
- 3 Solid surface window sills are included at the new windows in the Control Building.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

- 1 New EPDM roofing systems are included at the Administration and Control Buildings. New copings are included at the Operations Building.
- 2 New roof access hatch is included at the Administration Building.
- 3 Replacing backer rod and sealants is included per the elevations provided at each building.

DIVISION 8 - OPENINGS

- 1 New doors are included at the Control and Operations Building per the Door Schedule provided.
- 2 Painting existing doors and frames along with removing and reinstalling hardware is included at the Administration Building.
- 3 New exterior aluminum framed windows are included at the Control Building. New exterior transom panels are included above doorways at the Operations Building.

DIVISION 9 - FINISHES

- 1 New finishes are included per the Room Finish Schedules at the Administration and Control Buildings.
- 2 Painting of existing walls and exposed ceiling structure is only included at the Operations Building.
- 3 Patching around new windows is included at the new Control Building per the window type 2 details.

DIVISION 10 - SPECIALTIES

- 1 Metal lockers are included at the Control Building.
- 2 Toilet room accessories are included at the Control Building per the Interior Elevations provided.

DIVISION 11 - EQUIPMENT

- 1 Installing owner provided refrigerator, range and over the range re-circulating exhaust hood are included at the Control Building.

DIVISION 12 - FURNISHINGS

- 1 P-Lam base, countertop, & wall cabinets are included at the Administration and Control Buildings Lunch Rooms.
- 2 Manual roller shades are included at the Administration and Control Buildings per the Room Finish Schedules.

DIVISION 13 - SPECIAL CONSTRUCTION

- 1 This division is not used.

DIVISION 14 - CONVEYING SYSTEMS

- 1 This division is not used.

DIVISION 21 - FIRE SUPPRESSION

- 1 No fire suppression included.

DIVISION 22 - PLUMBING SYSTEMS

- 1 Plumbing fixtures for the Administration Building and Control Building renovation are included as indicated on drawings with connection and routing of piping as part of renovation. The Operations Building and Aeration Tank plumbing related to the new emergency shower-eyewash stations is included based on drawings and information provided.

DIVISION 23 - HVAC

- 1 Replacement of diffusers & grilles, removal & reinstallation of thermostats and coordination of HVAC equipment and roof contractor work is included as indicated on drawings for the Administration building.
- 2 Replacement of diffusers & grilles, removal of specified equipment, new equipment per equipment schedules, ductwork and piping are included as indicated on drawings for the Control building.
- 3 HVAC work is included for the Operations building as indicated.

DIVISION 26 - ELECTRICAL

- 1 Pricing is based on 100% drawings issued in December 2019.
- 2 Light fixture material pricing is based on quotes received.
- 3 No material quotations were received for the Operations Building switchgear or motor control center.

DIVISION 27 - COMMUNICATIONS

- 1 Pricing is included for new data outlets at the Control Building as shown on the drawings.
- 2 Pricing is included to remove and reinstall intercom speakers at the Control Building as shown.
- 3 No communication devices are shown at any buildings other than the Control Building at this time.

DIVISION 28 - ELECTRONIC SAFETY & SECURITY

- 1 Fire alarm work is included in the buildings as shown on the drawings. Fire alarm work is not indicated at the Operations Building.
- 2 Reworking wiring to existing door strikes is included at the Operations Building. No other security system work is included. We assume any other security work will be performed by others.

DIVISION 31 - EARTHWORK

- 1 Excavation and hauling on site is included for the new Ferrous Chloride containment area and new pavements.
- 2 SWPP erosion control is included as an allowance.
- 3 Site restoration is assumed required and included as an allowance.

DIVISION 32 - EXTERIOR IMPROVEMENTS

- 1 8" concrete walk with rebar reinforcing, near the new Ferrous Chloride containment area is included.
- 2 Standard duty asphalt paving near the new Ferrous Chloride containment area is included.
- 3 Existing pavement patching allowance due to construction work is assumed required and included.

DIVISION 33 - UTILITIES

- 1 An allowance of \$50,000 is included for C.E.I. to Provide Transformer, New Pole, 15kv Wiring at the Operations Building.

DIVISION 40 - PROCESS INTEGRATION

- 1 Material quotations have not been received for PLCs, control panels or local instruments. Pricing is based on general historical data.
- 2 No provisions are included to assemble loose instruments that may be shipped separately with a vendor skid. We assume all skids will be delivered complete with local instruments installed and wired.
- 3 The Digester Blower VFDs are skid mounted with the blowers. Pricing is included with the blower. See Div. 46.
- 4 The Aeration Blower Vendor Control Panels are skid mounted with the blowers. Pricing is included with the blower. See Div. 46.

DIVISION 43 - PROCESS GAS AND LIQUID HANDLING

- 1 Process piping, valves, fittings and connections are included as indicated on drawings in the Operations Building and Aeration Tank Area.
- 2 No Process piping work is included in the Administration or Control Building.
- 3 See Division detail for additional clarifications.

DIVISION 46 - WATER AND WASTEWATER EQUIPMENT

- 1 Two (2) Multistage blowers and Two (2) Positive displacement blowers along with intake filters are included as indicated on drawings and information provided by engineer for the Operations Building.
- 2 (1) new FECL 5,000 gallon storage tank, Ferric Chloride (2) pump skid along with prefabricated Chlorination shelter are included as indicated on drawings and information provided by engineer.
- 3 See Division detail for additional clarifications.

Probable Cost Note:

Since RCSI has no control over Market Conditions, the cost of labor, materials or the contractor's method of determining prices, or competitive bidding, our opinions of probable construction cost are made on the basis of our experience and qualifications. These opinions represent our best judgment as professionals familiar with the construction industry. However we cannot and do not guarantee that proposals, bids or the construction cost will not vary from our opinions of probable construction cost.

[illegible]

Based on the level of project definition the AACE recommended practice suggests the expected accuracy range to be -10% to +10% of the Single Point Opinion of Probable Construction Cost (Item G). This range does NOT apply to the General Allowance (Item H) which is added separately.

\$5,409,700

\$6,337,100

- (1) Where breakout costs were not available, the total cost was applied to the material column.
- (2) Total man-hours estimated for the project may not be fully reflected as some items have the labor component part of an "installed" cost. In these cases, the labor is built into the MATERIAL number.

Administration Building

Construction Cost Breakdown

ESTIMATE SUMMARY BY CSI DIVISION			
CSI NO.	DESCRIPTION	AMOUNT	
1	GENERAL REQUIREMENTS	\$	32,618
2	EXISTING CONDITIONS	\$	14,099
3	CONCRETE	\$	-
4	MASONRY	\$	-
5	METALS	\$	9,874
6	WOOD, PLASTIC & COMPOSITE	\$	7,572
7	THERMAL AND MOISTURE PROTECTION	\$	163,365
8	OPENINGS	\$	-
9	FINISHES	\$	38,305
10	SPECIALTIES	\$	-
11	EQUIPMENT	\$	-
12	FURNISHINGS	\$	5,280
13	SPECIAL CONSTRUCTION	\$	-
14	CONVEYING SYSTEMS	\$	-
21	FIRE SUPPRESSION	\$	-
22	PLUMBING SYSTEMS	\$	6,427
23	HVAC SYSTEMS	\$	29,685
26	ELECTRICAL	\$	35,361
27	COMMUNICATIONS	\$	-
28	ELECTRONIC SAFETY & SECURITY	\$	5,981
31	EARTHWORK	\$	-
32	EXTERIOR IMPROVEMENTS	\$	-
33	UTILITIES	\$	-
40	PROCESS INTEGRATION	\$	-
43	PROCESS GAS AND LIQUID HANDLING	\$	-
46	WATER AND WASTEWATER EQUIPMENT	\$	-
	TOTAL	\$	348,568
	ROUNDED	\$	349,000

BID ITEMS			
ITEM NO.	DESCRIPTION	AMOUNT	
1	General Trades	\$	315,950
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6		\$	-
7		\$	-
8	General Conditions	\$	32,618
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
	TOTAL	\$	348,568
	ROUNDED	\$	349,000

all trades except MEP & Process OH&P																	10%
MEP & Process (DIV. 21, 22, 23, 26, 27, 28, 40, 41, 43, 46) OH&P																	15%
WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
FB			Administration Building														
	2		Division 2 - Site Work and Demolition														\$ 29,161
AB	2-1	A-AB-102	Demo Existing Roofing System, including Copings and Roof Hatch	4,589	SF	0.04	183.56	\$54.33	\$ 9,973	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 997	\$ 10,970
AB	2-2	A-AB-101	Demo Existing Flooring for new Finishes per General Note 3	1,476	SF	0.03	44.28	\$54.33	\$ 2,406	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 241	\$ 2,646
AB	2-3	A-AB-101	Demo Existing Shades at Existing Windows per Keynote A	144	SF	0.03	4.32	\$54.33	\$ 235	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 23	\$ 258
AB	2-4	A-AB-101	Demo Existing Casework per Keynote G	5	LF	0.75	3.75	\$54.33	\$ 204	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 20	\$ 224
AB	2.5	A-AB-102	Demo Existing RTUs	1	LS	160	160.00	\$54.33	\$ 8,693	\$5,000	\$ 5,000	\$0.00	\$ -	\$0.00	\$ -	\$ 1,369	\$ 15,062
	5		Division 5 - Metals														\$ 9,874
AB	5-1	A-AB-102	Guardrail, Galv. Steel, Painted	85	LF	0.20	17.00	\$62.63	\$ 1,065	\$1.00	\$ 85	\$65.00	\$ 5,525	\$0.00	\$ -	\$ 667	\$ 7,342
AB	5-2	A-AB-101	Replace Ext. Stair Handrails w/ Aluminum Wall Mntd Handrails	26	LF	0.20	5.20	\$62.63	\$ 326	\$1.00	\$ 26	\$75.00	\$ 1,950	\$0.00	\$ -	\$ 230	\$ 2,532
	6		Division 6 - Wood, Plastic & Composite														\$ 7,572
AB	7-1	A-AB-102	Rough Wood Blocking at Roof	4,589	SF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$1.50	\$ 6,884	\$0.00	\$ -	\$ 688	\$ 7,572
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	7		Division 7 - Thermal and Moisture Protection														\$ 163,365
AB	7-1	A-AB-102	EPDM Membrane over Cover Brd, Rigid Insul., Tapered, Vapor Barrier, Substrate Brd. Includes Flashing and Crickets all Rooftop HVAC	4,589	SF	0.135	619.52	\$59.78	\$ 37,035	\$0.00	\$ -	\$18.23	\$ 83,644	\$0.00	\$ -	\$ 12,068	\$ 132,746
AB	7-2	A-AB-102	Prefinished metal Coping	300	LF	0.20	60.00	\$59.78	\$ 3,587	\$1.00	\$ 300	\$20.00	\$ 6,000	\$0.00	\$ -	\$ 989	\$ 10,875
AB	7-3	A-AB-201	Sealant w/backer rod - Control Joints	56	LF	0.11	6.16	\$59.78	\$ 368	\$1.00	\$ 56	\$1.50	\$ 84	\$0.00	\$ -	\$ 51	\$ 559
AB	7-4	A-AB-201	Split Face & CMU Joint Sealants, incl. Removing Mortar Joints	236	LF	0.22	51.92	\$59.78	\$ 3,104	\$1.00	\$ 236	\$1.50	\$ 354	\$0.00	\$ -	\$ 369	\$ 4,063
AB	7-5	A-AB-201	Windows & Doors Sealants	292	LF	0.11	32.12	\$59.78	\$ 1,920	\$1.00	\$ 292	\$1.50	\$ 438	\$0.00	\$ -	\$ 265	\$ 2,915
AB	7-6	A-AB-201	Pipe Penetration Sealant	1	EA	2.00	2.00	\$59.78	\$ 120	\$10.00	\$ 10	\$10.00	\$ 10	\$0.00	\$ -	\$ 14	\$ 154
AB	7-7	A-AB-101	Steps Joint Sealants per Keynote E	50	LF	0.11	5.50	\$59.78	\$ 329	\$1.00	\$ 50	\$1.50	\$ 75	\$0.00	\$ -	\$ 45	\$ 499
AB	7-8	A-AB-101	East Steps remove concrete spall and patch per Keynote G	1	LS	8.00	8.00	\$59.78	\$ 478	\$0.00	\$ -	\$100.00	\$ 100	\$0.00	\$ -	\$ 58	\$ 636
AB	7-9	A-AB-201	West Steps Cracking Joints Tuck Pointing	1	LS	8.00	8.00	\$59.78	\$ 478	\$0.00	\$ -	\$100.00	\$ 100	\$0.00	\$ -	\$ 58	\$ 636
AB	7-10	A-AB-201	Cracked Cap Sealant														

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
FB			Administration Building														
	22		Division 22 - Plumbing Systems														\$ 10,646
AB	22-1	PD-AB-101 (Note A & B) REMOVED FROM PROJECT at 100% Plans	Remove existing (2) Water closets, (1) Urinal, (3) Lavatories & (1) Kitchen Sink and make safe in preparation of new fixtures in same location using existing domestic & sanitary piping	0	LS	8.000	0.0	\$67.67	\$ -	\$0.00	\$ -	\$150.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AB	22-2	P-AB-101 (Note A) REMOVED FROM PROJECT at 100% Plans	LAV-1: Lavatory - countertop mounted, vitreous china with standard faucet & mixing valve with minor pipe connection modifications	0	EA	4.264	0.0	\$67.67	\$ -	\$0.00	\$ -	\$650.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AB	22-3	P-AB-101 (Note B) REMOVED FROM PROJECT at 100% Plans	WC-1 Water Closet - w/manual flush valve, Replace in existing location with minor pipe & connection modifications	0	EA	5.759	0.0	\$67.67	\$ -	\$0.00	\$ -	\$1,025.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AB	22-4	P-AB-101 (Note C) REMOVED FROM PROJECT at 100% Plans	UR-1 Urinal Wall mounted - w/manual flush valve, Replace in existing location with minor pipe & connection modifications	0	EA	5.333	0.0	\$67.67	\$ -	\$0.00	\$ -	\$760.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AB	22-5	P-AB-101 (Note A) + P-AB-601	SK-1 Countertop stainless steel single bowl sink with gooseneck faucet with wrist blade handles, Drain strainer, mixing valve installed in new countertop provided by others in approximately same location with minor pipe & connection modifications (JUST SL-1517-B-GR, MOEN 8799)	1	EA	3.500	3.5	\$67.67	\$ 237	\$0.00	\$ -	\$955.00	\$ 955	\$0.00	\$ -	\$ 179	\$ 1,371
AB	22-6	P-AB-101 (Note B)	Cap sanitary connections from drinking fountain (Assume removal of drinking fountain, not noted on plans)	1	EA	2.000	2.0	\$67.67	\$ 135	\$0.00	\$ -	\$40.00	\$ 40	\$0.00	\$ -	\$ 26	\$ 202
AB	22-7	P-AB-101 (Note C) + P-AB-601	DWH-1 Domestic hot water heater 75 gallon, and concentric vent kit. Remove and replace existing tank. (Rheem G75UN)	1	EA	8.000	8.0	\$67.67	\$ 541	\$0.00	\$ -	\$2,680.00	\$ 2,680	\$0.00	\$ -	\$ 483	\$ 3,705
AB	22-8	P-AB-101	Misc. piping and connection additional allowance	1	ALLOW	0.000	0.0	\$67.67	\$ -	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$ 150	\$ 1,150
AB	22-9	P-AB-101	ES-4 Emergency Eye Wash Shower, Indoor & alarm light package. (HAWS or Guardian 8330 and alarm light)	1	EA	4.000	4.0	\$67.67	\$ 271	\$0.00	\$ -	\$3,397.85	\$ 3,398	\$0.00	\$ -	\$ 550	\$ 4,219
	23		Division 23 - HVAC Systems														\$ 29,685
AB	23-1	MD-AB-101 (Note A thru C)	Remove existing diffusers & grilles in preparation of new work reusing existing ductwork	1	LS	8.000	8.0	\$69.95	\$ 560	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 84	\$ 644
AB	23-2	MD-AB-101 (Note D)	Remove Thermostat for painting wall (5 based on drawing)	5	EA	0.500	2.5	\$69.95	\$ 175	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 26	\$ 201
AB	23-3	M-AB-101 (Note A)	Install new CD-1 Supply Diffuser 24/24 with flex connection to existing duct	17	EA	0.843	14.3	\$69.95	\$ 1,002	\$0.00	\$ -	\$91.70	\$ 1,559	\$0.00	\$ -	\$ 384	\$ 2,946
AB	23-4	M-AB-101 (Note B)	Install new RG-1 Return Air Grille 24/24	7	EA	0.727	5.1	\$69.95	\$ 356	\$0.00	\$ -	\$52.00	\$ 364	\$0.00	\$ -	\$ 108	\$ 828
AB	23-5	M-AB-101 (Note C)	Install new EG-1 Exhaust Air Grille 12/12	2	EA	0.444	0.9	\$69.95	\$ 62	\$0.00	\$ -	\$31.50	\$ 63	\$0.00	\$ -	\$ 19	\$ 144
AB	23-6	M-AB-101 (Note E)	Re-install Thermostat (Assume 3 based on existing rooftop equipment above renovation area)	5	EA	0.500	2.5	\$69.95	\$ 175	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 26	\$ 201
AB	23-7	A-AB-102 (Note A) provided 12/19/19	Disconnect (8) rooftop equipment, remove & reset after roof replacement, coordinate with roofing contractor.	1	LS	50.000	50.0	\$69.95	\$ 3,498	\$8,000.00	\$ 8,000	\$4,000.00	\$ 4,000	\$0.00	\$ -	\$ 2,325	\$ 17,822
AB	23-8	A-AB-102 (Note B) provided 12/19/19	Remove and replace Rooftop Exhaust Fan EF-1 (not on schedule however Per M-AB-102 Note B	1	ALLOW	0.000	0.0	\$69.95	\$ -	\$0.00	\$ -	\$3,000.00	\$ 3,000	\$0.00	\$ -	\$ 450	\$ 3,450
AB	23-9	A-AB-102 (Note C) provided 12/19/19	Remove and replace Rooftop Exhaust Fan EF-2 (not on schedule however Per M-AB-102 Note B	1	ALLOW	0.000	0.0	\$69.95	\$ -	\$0.00	\$ -	\$3,000.00	\$ 3,000	\$0.00	\$ -	\$ 450	\$ 3,450
	26		Division 26 - Electrical Systems														\$ 35,361
	26-1		Lighting				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AB	26-2		Demo Light Fixtures	77	EA	1.00	77.00	\$69.60	\$ 5,359	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 804	\$ 6,163
AB	26-3		Demo Devices, (Receptacles)	11	EA	0.30	3.30	\$69.60	\$ 230	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 34	\$ 264
AB	26-4		Recycle Fluorescent Bulbs and Ballasts	1	LS	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$400.00	\$ 400	\$0.00	\$ -	\$ 144	\$ 1,100
AB	26-5	quote	Type "LA" 2 x 4 LED Lay-In Fixture	60	EA	1.00	60.00	\$69.60	\$ 4,176	\$0.00	\$ -	\$99.00	\$ 5,940	\$0.00	\$ -	\$ 1,517	\$ 11,633
AB	26-6	quote	Type "LB" 2 x 2 LED Lay-In Fixture	7	EA	1.00	7.00	\$69.60	\$ 487	\$0.00	\$ -	\$97.00	\$ 679	\$0.00	\$ -	\$ 175	\$ 1,341
AB	26-7	quote	Type "LC" 24" LED Fixture Above Mirror, Direct / Indirect	2	EA	2.00	4.00	\$69.60	\$ 278	\$0.00	\$ -	\$150.00	\$ 300	\$0.00	\$ -	\$ 87	\$ 665
AB	26-8	quote	Type "EL" 2-Head LED Battery Pack	6	EA	1.50	9.00	\$69.60	\$ 626	\$0.00	\$ -	\$212.00	\$ 1,272	\$0.00	\$ -	\$ 285	\$ 2,183
AB	26-9	quote	Type "EX" LED Exit With Ni-Cad Battery	4	EA	1.25	5.00	\$69.60	\$ 348	\$0.00	\$ -	\$167.00	\$ 668	\$0.00	\$ -	\$ 152	\$ 1,168
AB	26-10	quote	Type "EM" Exterior Wallpack LED Fixture	3	EA	2.00	6.00	\$69.60	\$ 418	\$0.00	\$ -	\$493.00	\$ 1,479	\$0.00	\$ -	\$ 284	\$ 2,181
AB	26-11		Occupancy Sensor, Ceiling Mount, Dual Technology	20	EA	1.00	20.00	\$69.60	\$ 1,392	\$0.00	\$ -	\$110.00	\$ 2,200	\$0.00	\$ -	\$ 539	\$ 4,131
AB	26-12		Replace Toggle Switch Cover Plate, ss	17	EA	0.20	3.40	\$69.60	\$ 237	\$0.00	\$ -	\$9.88	\$ 168	\$0.00	\$ -	\$ 61	\$ 465
AB	26-13		New Lighting Conduit and Wiring - Misc.	50	LF	0.16	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$7.00	\$ 350	\$0.00	\$ -	\$ 136	\$ 1,043
AB	26-14		20A, 120V GFI Receptacle, Replace With New / Reuse Wiring	12	EA	0.50	6.00	\$69.60	\$ 418	\$0.00	\$ -	\$45.00	\$ 540	\$0.00	\$ -	\$ 144	\$ 1,101

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
FB			Administration Building														
AB	26-15		Mechanical Equipment				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AB	26-16		Disconnect Mechanical Equipment on Roof	8	EA	1.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 84	\$ 640
AB	26-17		Reconnect Mechanical Equipment on Roof	8	EA	2.00	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 167	\$ 1,281
	27		Division 27 - Communications														\$ -
			No Work Included				0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	28		Division 28 - Electronic Safety & Security														\$ 5,981
	28-1		Fire Alarm System				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AB	28-2		Demo Fire Alarm Devices	15	EA	0.50	7.50	\$69.60	\$ 522	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 78	\$ 600
AB	28-3		New Smoke Detector	2	EA	1.50	3.00	\$69.60	\$ 209	\$0.00	\$ -	\$225.00	\$ 450	\$0.00	\$ -	\$ 99	\$ 758
AB	28-4		Reinstall Smoke Detector	5	EA	1.00	5.00	\$69.60	\$ 348	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 52	\$ 400
AB	28-5		Reinstall Speaker	6	EA	1.00	6.00	\$69.60	\$ 418	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 63	\$ 480
AB	28-6		Reinstall Strobe	2	EA	1.00	2.00	\$69.60	\$ 139	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 21	\$ 160
AB	28-7		Reinstall Horn / Strobe	2	EA	1.50	3.00	\$69.60	\$ 209	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 31	\$ 240
AB	28-8		Fire Alarm Conduit and Wiring	50	LF	0.16	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$7.00	\$ 350	\$0.00	\$ -	\$ 136	\$ 1,043
AB	28-9		Testing	1	LS	0.00	0.00	\$69.60	\$ -	\$0.00	\$ -	\$2,000.00	\$ 2,000	\$0.00	\$ -	\$ 300	\$ 2,300
	40		Division 40 - Process Integration														\$ -
AB	40-1		No Work Included				0.0	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	43		Division 43 - Process Gas and Liquid Handling														\$ -
AB	43-1		No Work Included														
	46		Division 46 - Water and Wastewater Equipment														\$ -
AB	46-1		No Work Included														
			General Conditions														\$ 32,618
			Percentage for all general conditions items including but not limited	10	%		221.7	\$50.00	\$ 11,083	\$0.00	\$ 906	\$0.00	\$ 17,664	\$0.00	\$ -	\$ 2,965	\$ 32,618
			Contractor supervision														
			Temporary facilities for trailers														
			Computer systems and job support items														
			Project cleanup, dumpsters, etc.														
			Temporary toilets														
			Hauling														
			Project safety systems and items														
			Sub-Totals				2,068		\$ 121,914		\$ 14,961		\$ 194,305		0	\$ 36,669	\$ 368,000

Control Building

Construction Cost Breakdown

ESTIMATE SUMMARY BY CSI DIVISION			
CSI NO.	DESCRIPTION		AMOUNT
1	GENERAL REQUIREMENTS	\$	64,765
2	EXISTING CONDITIONS	\$	28,684
3	CONCRETE	\$	-
4	MASONRY	\$	51,699
5	METALS	\$	26,020
6	WOOD, PLASTIC & COMPOSITE	\$	5,254
7	THERMAL AND MOISTURE PROTECTION	\$	95,087
8	OPENINGS	\$	47,375
9	FINISHES	\$	63,929
10	SPECIALTIES	\$	19,025
11	EQUIPMENT	\$	513
12	FURNISHINGS	\$	9,598
13	SPECIAL CONSTRUCTION	\$	-
14	CONVEYING SYSTEMS	\$	-
21	FIRE SUPPRESSION	\$	-
22	PLUMBING SYSTEMS	\$	53,168
23	HVAC SYSTEMS	\$	122,795
26	ELECTRICAL	\$	126,913
27	COMMUNICATIONS	\$	2,769
28	ELECTRONIC SAFETY & SECURITY	\$	37,269
31	EARTHWORK	\$	-
32	EXTERIOR IMPROVEMENTS	\$	-
33	UTILITIES	\$	-
40	PROCESS INTEGRATION	\$	-
43	PROCESS GAS AND LIQUID HANDLING	\$	-
46	WATER AND WASTEWATER EQUIPMENT	\$	-
	TOTAL	\$	754,864
	ROUNDED	\$	755,000

BID ITEMS			
ITEM NO.	DESCRIPTION		AMOUNT
1	General Trades	\$	690,098
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6		\$	-
7		\$	-
8	General Conditions	\$	64,765
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
	TOTAL	\$	754,864
	ROUNDED	\$	755,000

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
			Control Building														
FB																	
	2		Division 2 - Site Work and Demolition														\$ 28,684
CB	2-1	A-CB-103	Demo Existing Roofing System, including Copings	2,651	SF	0.04	106.04	\$54.33	\$ 5,761	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 576	\$ 6,337
CB	2-2	AD-CB-101	Demo 8" CMU Walls, assume non-load bearing, 11' high	396	SF	0.25	99.00	\$54.33	\$ 5,379	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 538	\$ 5,917
CB	2-3	AD-CB-101	Demo 4" CMU Chase Walls, 11' high	264	SF	0.21	55.44	\$54.33	\$ 3,012	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 301	\$ 3,313
CB	2-4	AD-CB-101	Demo exterior single Doors and frames	5	EA	3.00	15.00	\$54.33	\$ 815	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 81	\$ 896
CB	2-5	AD-CB-101	Demo interior single Doors and frames	12	EA	3.00	36.00	\$54.33	\$ 1,956	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 196	\$ 2,151
CB	2-6	AD-CB-101	Demo exterior & Interior Windows and frames, incl. Shades	10	EA	4.00	40.00	\$54.33	\$ 2,173	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 217	\$ 2,391
CB	2-7	AD-CB-101	Demo exterior Louver	1	EA	2.00	2.00	\$54.33	\$ 109	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 11	\$ 120
CB	2-8	AD-CB-101	Demo Toilet Partition	2	EA	2.00	4.00	\$54.33	\$ 217	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 22	\$ 239
CB	2-9	AD-CB-101	Demo Urinal Screen	1	EA	1.00	1.00	\$54.33	\$ 54	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 5	\$ 60
CB	2-10	AD-CB-101	Demo Toilet Room Flooring, abrade floors for new flooring	187	SF	0.05	9.35	\$54.33	\$ 508	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 51	\$ 559
CB	2-11	AD-CB-101	Demo Flooring, prep for new flooring	1,975	SF	0.03	59.25	\$54.33	\$ 3,219	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 322	\$ 3,541
CB	2-12	AD-CB-101	Demo ACT Ceilings	1,682	SF	0.02	33.64	\$54.33	\$ 1,828	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 183	\$ 2,010
CB	2-13	AD-CB-101	Demo Lockers	11	EA	1.00	11.00	\$54.33	\$ 598	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 60	\$ 657
CB	2-14	AD-CB-101	Demo Base, Countertop, and Wall Cabinets	7	LF	0.75	5.25	\$54.33	\$ 285	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 29	\$ 314
CB	2-15	AD-CB-101	Demo Range	1	EA	1.50	1.50	\$54.33	\$ 81	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 8	\$ 90
CB	2-16	AD-CB-101	Demo Fridge	1	EA	1.50	1.50	\$54.33	\$ 81	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 8	\$ 90
	4		Division 4 - Masonry														\$ 51,699
CB	4-1	A-CB-104	6" CMU Wall w/ #5 Reinforcing @ 32" o.c. Grout Solid, #5 Dowels Drilled and Grouted into Ex. Concrete Slab w/ 4" Embed, Cont. Bond Beam along top of wall w/ #5 Reinf. Grouted Solid.	737	SF	0.75	552.75	\$56.12	\$ 31,020	\$1.00	\$ 737	\$3.00	\$ 2,211	\$0.00	\$ -	\$ 3,397	\$ 37,365
CB	4-2	A-CB-104	4" CMU Chase Wall	83	SF	0.45	37.13	\$56.12	\$ 2,083	\$1.00	\$ 83	\$3.00	\$ 248	\$0.00	\$ -	\$ 241	\$ 2,655
CB	4-3	A-CB-101, -104	8" CMU Infill at (2) Ex. Doorways , Tooth Into Adjacent Block per Keynote A	48	SF	1.50	71.63	\$56.12	\$ 4,020	\$1.00	\$ 48	\$5.00	\$ 239	\$0.00	\$ -	\$ 431	\$ 4,737
CB	4-4	A-CB-104, -201	Exterior Split Face CMU Infill w/ Core-Fill Insulation at (2) Ex. Doorways and Louver, Tooth Into Adjacent Block	54	SF	1.50	80.63	\$56.12	\$ 4,525	\$3.00	\$ 161	\$7.00	\$ 376	\$0.00	\$ -	\$ 506	\$ 5,569
CB	4-5	A-CB-201	Tuck Point Existing Brick	67	SF	0.30	20.10	\$56.12	\$ 1,128	\$0.80	\$ 54	\$1.00	\$ 67	\$0.00	\$ -	\$ 125	\$ 1,373
	5		Division 5 - Metals														\$ 26,020
CB	5-1	A-CB-103	Guardrail, Galv. Steel, Painted	193	LF	0.20	38.60	\$62.63	\$ 2,418	\$1.00	\$ 193	\$65.00	\$ 12,545	\$0.00	\$ -	\$ 1,516	\$ 16,671
CB	5-2	S-CB-101	W10x26 Beams below exist. Precast Plank, incl. Beam Pockets	0.62	TONS	100.00	61.75	\$62.63	\$ 3,867	\$1,500.00	\$ 926	\$6,000.00	\$ 3,705	\$0.00	\$ -	\$ 850	\$ 9,349
	6		Division 6 - Wood, Plastic & Composite														\$ 5,254
CB	6-1	A-CB-103	Rough Wood Blocking at Roof	2,651	SF		0.00	\$0.00	\$ -	\$0.00	\$ -	\$1.50	\$ 3,977	\$0.00	\$ -	\$ 398	\$ 4,374
CB	6-2	A-00-602	Solid Surface Window Sills at New Windows w/ Type 2 Sill Detail	20	LF		0.00	\$0.00	\$ -	\$0.00	\$ -	\$40.00	\$ 800	\$0.00	\$ -	\$ 80	\$ 880
	7		Division 7 - Thermal and Moisture Protection														\$ 95,087
CB	7-1	A-CB-103	EPDM Membrane over Cover Brd, Rigid Insul., Tapered, Vapor Barrier. Includes Flashing and Crickets all Rooftop HVAC Equipment	2,651	SF	0.158	417.53	\$59.78	\$ 24,960	\$0.00	\$ -	\$18.23	\$ 48,320	\$0.00	\$ -	\$ 7,328	\$ 80,608
CB	7-2	A-CB-103	Prefinished metal Coping	211	LF	0.20	42.20	\$59.78	\$ 2,523	\$1.00	\$ 211	\$20.00	\$ 4,220	\$0.00	\$ -	\$ 695	\$ 7,649
CB	7-3	A-CB-201	Sealant w/backer rod - Control Joints	11	LF	0.11	1.21	\$59.78	\$ 72	\$1.00	\$ 11	\$1.50	\$ 17	\$0.00	\$ -	\$ 10	\$ 110
CB	7-4	A-CB-201	Louvers Sealants	12	LF	0.11	1.32	\$59.78	\$ 79	\$1.00	\$ 12	\$1.50	\$ 18	\$0.00	\$ -	\$ 11	\$ 120
CB	7-5	A-CB-103	Extend / Remove Equip. Curbs & Cover Openings	1	LS	0.00	0.00	\$59.78	\$ -	\$0.00	\$ -	\$5,000.00	\$ 5,000	\$0.00	\$ -	\$ 500	\$ 5,500
CB	7-6	A-CB-103	Walkway Pads	1	LS	0.00	0.00	\$59.78	\$ -	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$ 100	\$ 1,100
	8		Division 8 - Openings														\$ 47,375
CB	8-1	A-CB-101	Exterior 4'-0" x 7'-2" FRP / Glass Door w/ FRP Frame incl. Hardware	1	EA	8.00	8.00	\$58.35	\$ 467	\$0.00	\$ -	\$2,750.00	\$ 2,750	\$0.00	\$ -	\$ 322	\$ 3,538
CB	8-2	A-CB-101	Exterior 3'-0" x 7'-2" FRP / Glass Door w/ FRP Frame incl. Hardware	2	EA	8.00	16.00	\$58.35	\$ 934	\$0.00	\$ -	\$2,550.00	\$ 5,100	\$0.00	\$ -	\$ 603	\$ 6,637
CB	8-3	A-CB-101	Interior 3'-8" x 7'-0" Hollow Metal Door w/ HM Frame incl. Hardware	1	EA	8.00	8.00	\$58.35	\$ 467	\$0.00	\$ -	\$2,100.00	\$ 2,100	\$0.00	\$ -	\$ 257	\$ 2,823
CB	8-4	A-CB-101	Interior 3'-0" x 7'-0" Hollow Metal Door w/ HM Frame incl. Hardware	9	EA	8.00	72.00	\$58.35	\$ 4,201	\$0.00	\$ -	\$1,850.00	\$ 16,650	\$0.00	\$ -	\$ 2,085	\$ 22,936
CB	8-5	A-CB-201	Exterior Aluminum Window w/1" insulated glass	136	SF	0.26	35.36	\$58.35	\$ 2,063	\$1.30	\$ 177	\$60.00	\$ 8,160	\$0.00	\$ -	\$ 1,040	\$ 11,440

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
FB			Control Building														
	9		Division 9 - Finishes														\$ 63,929
CB	9-1	A-CB-101	Clean Floor Tile and Grout	38	SF	0.01	0.38	\$58.35	\$ 22	\$0.00	\$ -	\$0.50	\$ 19	\$0.00	\$ -	\$ 4	\$ 45
CB	9-2	A-CB-101	Clean Base Tile and Grout	649	SF	0.01	6.49	\$58.35	\$ 379	\$0.00	\$ -	\$0.50	\$ 325	\$0.00	\$ -	\$ 70	\$ 774
CB	9-3	A-CB-101	Tile Carpeting Flooring	417	SF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$5.00	\$ 2,085	\$0.00	\$ -	\$ 209	\$ 2,294
CB	9-4	A-CB-101	Porcelain Tile Flooring	216	SF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$18.00	\$ 3,888	\$0.00	\$ -	\$ 389	\$ 4,277
CB	9-5	A-CB-101	Epoxy Flooring	697	SF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$16.25	\$ 11,326	\$0.00	\$ -	\$ 1,133	\$ 12,459
CB	9-6	A-CB-101	VCT Tile Flooring	874	SF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$3.50	\$ 3,059	\$0.00	\$ -	\$ 306	\$ 3,365
CB	9-7	A-CB-101	Clean Wall Tile and Grout	48	LF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$3.00	\$ 144	\$0.00	\$ -	\$ 14	\$ 158
CB	9-8	A-CB-101	Ceramic Wall Tile	224	SF	0.32	71.68	\$58.35	\$ 4,183	\$0.00	\$ -	\$10.00	\$ 2,240	\$0.00	\$ -	\$ 642	\$ 7,065
CB	9-9	A-CB-101	Epoxy Paint Existing Walls	6,039	SF	0.01	60.39	\$52.00	\$ 3,140	\$0.00	\$ -	\$0.95	\$ 5,737	\$0.00	\$ -	\$ 888	\$ 9,765
CB	9-10	A-CB-101	Latex Paint Existing Walls	1,278	SF	0.01	12.78	\$52.00	\$ 665	\$0.00	\$ -	\$0.55	\$ 703	\$0.00	\$ -	\$ 137	\$ 1,504
CB	9-11	A-CB-101	Gypsum Board Ceilings	401	SF	0.30	120.30	\$52.86	\$ 6,359	\$0.00	\$ -	\$3.00	\$ 1,203	\$0.00	\$ -	\$ 756	\$ 8,318
CB	9-12	A-CB-101	Acoustical Ceilings	1,294	SF	0.04	45.29	\$52.86	\$ 2,394	\$0.00	\$ -	\$2.25	\$ 2,912	\$0.00	\$ -	\$ 531	\$ 5,836
CB	9-13	A-CB-101	Paint existing exposed structure	586	SF	0.04	23.44	\$52.00	\$ 1,219	\$0.00	\$ -	\$0.20	\$ 117	\$0.00	\$ -	\$ 134	\$ 1,470
CB	9-14	A-CB-101	Floor Leveler floor prep per Sheet Note	1	LS	0.00	0.00	\$52.00	\$ -	\$0.00	\$ -	\$2,000.00	\$ 2,000	\$0.00	\$ -	\$ 200	\$ 2,200
CB	9-15	A-00-602	Patch around New Windows per Type 2 Window Details	1	LS	0.00	0.00	\$52.00	\$ -	\$0.00	\$ -	\$3,000.00	\$ 3,000	\$0.00	\$ -	\$ 300	\$ 3,300
CB	9-16	A-CB-103	Paint existing gas piping per General Note on Roof Plan	1	LS	0.00	0.00	\$52.00	\$ -	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$ 100	\$ 1,100
	10		Division 10 - Specialties														\$ 19,025
CB	10-1	A-CB-104	Metal Locker: 12" x 18"	24	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$400.00	\$ 9,600	\$0.00	\$ -	\$ 960	\$ 10,560
CB	10-2	A-CB-104	Phenolic Toilet Partition	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$1,500.00	\$ 3,000	\$0.00	\$ -	\$ 300	\$ 3,300
CB	10-3	A-CB-104	Shower Seat	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$250.00	\$ 500	\$0.00	\$ -	\$ 50	\$ 550
CB	10-4	A-CB-104	Shower Grab Bar	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$200.00	\$ 400	\$0.00	\$ -	\$ 40	\$ 440
CB	10-5	A-CB-104	42" Grab Bar	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$145.00	\$ 290	\$0.00	\$ -	\$ 29	\$ 319
CB	10-6	A-CB-104	36" Grab Bar	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$130.00	\$ 260	\$0.00	\$ -	\$ 26	\$ 286
CB	10-7	A-CB-104	18" Grab Bar	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$115.00	\$ 230	\$0.00	\$ -	\$ 23	\$ 253
CB	10-8	A-CB-104	Urinal Screen	1	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$550.00	\$ 550	\$0.00	\$ -	\$ 55	\$ 605
CB	10-9	A-CB-104	24" x 36" Mirror	3	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$300.00	\$ 900	\$0.00	\$ -	\$ 90	\$ 990
CB	10-10	A-CB-104	Soap Dispenser	3	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$75.00	\$ 225	\$0.00	\$ -	\$ 23	\$ 248
CB	10-11	A-CB-104	TP Dispenser	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$95.00	\$ 190	\$0.00	\$ -	\$ 19	\$ 209
CB	10-12	A-CB-104	San Nap Disposal	1	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$150.00	\$ 150	\$0.00	\$ -	\$ 15	\$ 165
CB	10-13	A-CB-104	Shower Curtan & Rod	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$200.00	\$ 400	\$0.00	\$ -	\$ 40	\$ 440
CB	10-14	A-CB-104	Wood Bench, Floor Mounted	2	EA		0.00	\$58.35	\$ -	\$0.00	\$ -	\$300.00	\$ 600	\$0.00	\$ -	\$ 60	\$ 660
	11		Division 11 - Equipment														\$ 513
CB	11-1	A-CB-202	Installation of Owner Provided Appliances: Fridge, Range, Over range re-circulating Exhaust Hood	1	LS	8.00	8.00	\$58.35	\$ 467	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 47	\$ 513
	12		Division 12 - Furnishings														\$ 9,598
CB	12-1	A-CB-202	P-Lam Base Cabinets, & Countertop	13.5	LF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$400.00	\$ 5,400	\$0.00	\$ -	\$ 540	\$ 5,940
CB	12-2	A-CB-202	P-Lam Base Wall Cabinets	9	LF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$225.00	\$ 2,025	\$0.00	\$ -	\$ 203	\$ 2,228
CB	12-3	A-CB-101	Manual Roller Shades at Windows per Room Finish Schedule Notes	104	SF		0.00	\$58.35	\$ -	\$0.00	\$ -	\$12.50	\$ 1,300	\$0.00	\$ -	\$ 130	\$ 1,430
	22		Division 22 - Plumbing Systems														\$ 53,168
CB	22-1	PD-CB-101 (Note A thru F)	Remove existing (2) Water closets, (2) showers, (1) Urinal, (2) Lavatories, (1) Kitchen Sink & 1 floor drain and make safe in preparation of new fixtures in different location	1	LS	18.000	18.0	\$67.67	\$ 1,218	\$0.00	\$ -	\$400.00	\$ 400	\$0.00	\$ -	\$ 243	\$ 1,861
CB	22-2	P-CB-101 (Note A)	LAV-1 Lavatory - wall mounted, vitreous china with sensor faucet & mixing valve (ADA) includes rough-in	3	EA	11.221	33.7	\$67.67	\$ 2,278	\$0.00	\$ -	\$1,039.00	\$ 3,117	\$0.00	\$ -	\$ 809	\$ 6,204
CB	22-3	P-CB-101 (Note B)	WC-1 Water Closet - wall mounted w/manual flush valve, ADA includes rough-in	2	EA	12.009	24.0	\$67.67	\$ 1,625	\$0.00	\$ -	\$2,325.00	\$ 4,650	\$0.00	\$ -	\$ 941	\$ 7,217
CB	22-4	P-CB-101 (Note C)	UR-1 Urinal Wall mounted - w/sensor flush valve, ADA includes rough-in	1	EA	10.987	11.0	\$67.67	\$ 743	\$0.00	\$ -	\$1,245.00	\$ 1,245	\$0.00	\$ -	\$ 298	\$ 2,287
CB	22-5	P-CB-101 (Note D)	SH-1 Shower Control Valve & head + trim, 3/6 shower receptor for tile & shower drain	3	EA	6.000	18.0	\$67.67	\$ 1,218	\$0.00	\$ -	\$1,080.00	\$ 3,240	\$0.00	\$ -	\$ 669	\$ 5,127
CB	22-6	P-CB-101 (Note E)	SK-1 Countertop stainless steel single bowl sink with std faucet, mixing valve installed in new countertop provided by others includes rough-in	1	EA	10.810	10.8	\$67.67	\$ 732	\$0.00	\$ -	\$1,243.00	\$ 1,243	\$0.00	\$ -	\$ 296	\$ 2,271
CB	22-7	P-CB-101 (Note I)	DWH-1 Domestic hot water heater 75 gallon, Remove and replace existing tank. Not on schedule P-CB-601 however drawing Note I New Hot water Heater. Assume (Rheem G75UN)	1	EA	8.000	8.0	\$67.67	\$ 541	\$0.00	\$ -	\$2,530.00	\$ 2,530	\$0.00	\$ -	\$ 461	\$ 3,532
CB	22-8	P-CB-102	Domestic Piping 1/2" to 2" & Insulation for new fixtures with connection to existing	1	LS	0.000	0.0	\$67.67	\$ -	\$0.00	\$ -	\$4,867.00	\$ 4,867	\$0.00	\$ -	\$ 730.05	\$ 5,597.05
CB	22-9	P-CB-101	Sanitary & Vent 1-1/4" to 4" with connection to existing	1	LS	0.000	0.0	\$67.67	\$ -	\$0.00	\$ -	\$5,065.00	\$ 5,065	\$0.00	\$ -	\$ 760	\$ 5,825
CB	22-10	P-CB-101	Sawcut & slab replacement for interior below grade sanitary 2" 3" & 4"	1	LS	0.000	0.0	\$67.67	\$ -	\$0.00	\$ -	\$9,135.00	\$ 9,135	\$0.00	\$ -	\$ 1,370.25	\$ 10,505
CB	22-11	P-CB-101	Sanitary VTR, core roof plank and seal	1	EA	4.000	4.0	\$67.67	\$ 271	\$0.00	\$ -	\$150.00	\$ 150	\$0.00	\$ -	\$ 63.10	\$ 484
CB	22-12	P-CB-101	GD-1 Garbage Disposal for SK-1 sink (Badger 5XP)	1	EA	2.000	2.0	\$67.67	\$ 135	\$0.00	\$ -	\$190.00	\$ 190	\$0.00	\$ -	\$ 48.80	\$ 374
CB	22-13	P-CB-101	WCO Wall Cleanout	1	EA	0.800	0.8	\$67.67	\$ 54	\$0.00	\$ -	\$197.00	\$ 197	\$0.00	\$ -	\$ 37.67	\$ 289
CB	22-14	P-CB-101	FCO Floor Clean Out	1	EA	1.333	1.3	\$67.67	\$ 90	\$0.00	\$ -	\$483.00	\$ 483	\$0.00	\$ -	\$ 85.98	\$ 659
CB	22-15	P-CB-101	FD-1 Floor Drain	2	EA	1.500	3.0	\$67.67	\$ 203	\$0.00	\$ -	\$306.00	\$ 612	\$0.00	\$ -	\$ 122.25	\$ 937

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P		TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above		
FB			Control Building															
	23		Division 23 - HVAC Systems															\$ 122,795
CB	23-1	MD-CB-101 Note A	Demo existing electric unit heater & make safe	2	EA	3.200	6.4	\$69.65	\$ 446	\$0.00	\$ -	\$25.00	\$ 50	\$0.00	\$ -	\$ 74	\$ 570	
CB	23-2	MD-CB-101 (Notes B, C, D, F, G & H)	Remove existing ductwork, diffusers, grilles + (3) VAV boxes in all areas except drywells	2,286	SF		0.0	\$69.65	\$ -	\$0.00	\$ -	\$1.15	\$ 2,629	\$0.00	\$ -	\$ 394	\$ 3,023	
CB	23-3	MD-CB-101 Note E	Demo existing electric baseboard heater & make safe	2	EA	1.000	2.0	\$69.65	\$ 139	\$0.00	\$ -	\$25.00	\$ 50	\$0.00	\$ -	\$ 28	\$ 218	
CB	23-4	MC-CB-101 Note A & M-CB-601	SAHU-1 / HP-1 Horizontal Concealed Ducted Split system indoor unit & outdoor roof mounted Heat Pump condensing unit (2 ton) (BOD: Mitsubishi PEAD-A24AA7 / PUZ-A24NHA7)	1	EA	14.154	14.2	\$69.65	\$ 986	\$750.00	\$ 750	\$5,550.00	\$ 5,550	\$0.00	\$ -	\$ 1,093	\$ 8,379	
CB	23-5	MC-CB-101 Note B & M-CB-601	SAHU-2 / HP-2 Horizontal Concealed Ducted Split system indoor unit & outdoor roof mounted Heat Pump condensing unit (1-1/2 ton) (BOD: Mitsubishi PEAD-A18AA7 / PUZ-A18NKA7)	1	EA	12.821	12.8	\$69.65	\$ 893	\$750.00	\$ 750	\$4,715.00	\$ 4,715	\$0.00	\$ -	\$ 954	\$ 7,312	
CB	23-6	MC-CB-101 Note C & M-CB-601	SAHU-3 / HP-3 Horizontal Concealed Ducted Split system indoor unit & outdoor roof mounted Heat Pump condensing unit (2 ton) (BOD: Mitsubishi PEAD-A24AA7 / PUZ-A24NHA7)	1	EA	14.154	14.2	\$69.65	\$ 986	\$750.00	\$ 750	\$5,550.00	\$ 5,550	\$0.00	\$ -	\$ 1,093	\$ 8,379	
CB	23-7	MC-CB-101 Note D & M-CB-601	FCU-1 / CU-1 Ceiling 4 way ceiling Cassette Split system indoor unit & outdoor roof mounted condensing unit (1 ton) (BOD: Mitsubishi PLA-A12EA7 / PUY-A12NKA7)	1	EA	12.054	12.1	\$69.65	\$ 840	\$750.00	\$ 750	\$4,385.00	\$ 4,385	\$0.00	\$ -	\$ 896	\$ 6,871	
CB	23-8	MC-CB-101 Note E & M-CB-601	FCU-2 / CU-2 Ceiling 4 way ceiling Cassette Split system indoor unit & outdoor roof mounted condensing unit (1 ton) (BOD: Mitsubishi PLA-A12EA7 / PUY-A12NKA7)	1	EA	12.054	12.1	\$69.65	\$ 840	\$750.00	\$ 750	\$4,385.00	\$ 4,385	\$0.00	\$ -	\$ 896	\$ 6,871	
CB	23-9	MC-CB-101 Note F & M-CB-601	ERV-1 Rooftop Energy Recovery Ventilator 640 CFM, (BOD: Renewaire HE1XRT) Includes cutting concrete plank for ductwork to roof	1	EA	21.333	21.3	\$69.65	\$ 1,486	\$750.00	\$ 750	\$7,448.00	\$ 7,448	\$0.00	\$ -	\$ 1,453	\$ 11,136	
CB	23-10	MC-CB-101	Ductwork (Galvanized)	1,630	LBS	0.098	159.7	\$69.65	\$ 11,126	\$0.00	\$ -	\$1.58	\$ 2,575	\$0.00	\$ -	\$ 2,055	\$ 15,756	
CB	23-11	MC-CB-101	Ductwork Insulation 1-1/2", .75 density	1,078	SF	0.050	53.9	\$69.65	\$ 3,754	\$0.00	\$ -	\$0.30	\$ 323	\$0.00	\$ -	\$ 612	\$ 4,689	
CB	23-12	MC-CB-101	Install new CD-1 Supply Diffuser 24/24 with flex connection	6	EA	0.843	5.1	\$69.95	\$ 354	\$0.00	\$ -	\$91.70	\$ 550	\$0.00	\$ -	\$ 136	\$ 1,040	
CB	23-13	MC-CB-101	Install new CD-2 Supply Diffuser 12/12 with flex connection	8	EA	0.843	6.7	\$69.95	\$ 472	\$0.00	\$ -	\$81.20	\$ 650	\$0.00	\$ -	\$ 168	\$ 1,290	
CB	23-14	MC-CB-101	Install new RG-1 Return Air Grille 24/12	4	EA	0.727	2.9	\$69.95	\$ 203	\$0.00	\$ -	\$42.00	\$ 168	\$0.00	\$ -	\$ 56	\$ 427	
CB	23-15	MC-CB-101	Install new RG-2 Return Air Grille 6/6	1	EA	0.433	0.4	\$69.95	\$ 30	\$0.00	\$ -	\$24.00	\$ 24	\$0.00	\$ -	\$ 8	\$ 62	
CB	23-16	MC-CB-101	Install new EG-1 Exhaust Air Grille 6/4	1	EA	0.433	0.4	\$69.95	\$ 30	\$0.00	\$ -	\$20.00	\$ 20	\$0.00	\$ -	\$ 8	\$ 58	
CB	23-17	MC-CB-101	Install new EG-1 Exhaust Air Grille 6/6	2	EA	0.433	0.9	\$69.95	\$ 61	\$0.00	\$ -	\$24.00	\$ 48	\$0.00	\$ -	\$ 16	\$ 125	
CB	23-18	MC-CB-101	Install new EG-1 Exhaust Air Grille 8/6	2	EA	0.433	0.9	\$69.95	\$ 61	\$0.00	\$ -	\$24.50	\$ 49	\$0.00	\$ -	\$ 16	\$ 126	
CB	23-19	MC-CB-101	4" Volume Damper	3	EA	0.381	1.1	\$69.95	\$ 80	\$0.00	\$ -	\$33.50	\$ 101	\$0.00	\$ -	\$ 27	\$ 208	
CB	23-20	MC-CB-101	6" Volume Damper	3	EA	0.381	1.1	\$69.95	\$ 80	\$0.00	\$ -	\$39.50	\$ 119	\$0.00	\$ -	\$ 30	\$ 228	
CB	23-21	MC-CB-101	8" Volume Damper	6	EA	0.464	2.8	\$69.95	\$ 195	\$0.00	\$ -	\$42.00	\$ 252	\$0.00	\$ -	\$ 67	\$ 514	
CB	23-22	MC-CB-101	RCP-1, 2, 4 & 5 Radiant Electric Ceiling Panel, 24"x28", 500 watts, 208/1/60 (Qmark CP508F) (Locker Rooms)	4	EA	1.500	6.0	\$69.95	\$ 420	\$0.00	\$ -	\$552.00	\$ 2,208	\$0.00	\$ -	\$ 394	\$ 3,022	
CB	23-23	MC-CB-101	RCP-3 Radiant Electric Ceiling Panel, 24"x24", 310 watts, 208/1/60 (Qmark CP318F) (Locker Room)	1	EA	1.500	1.5	\$69.95	\$ 105	\$0.00	\$ -	\$382.00	\$ 382	\$0.00	\$ -	\$ 73	\$ 560	
CB	23-24	MC-CB-101	EUH-1 & EUH-2 Electric Unit Heater, 3 KW, 480/3/60 (Qmark MUH0341) (Room CB-111 & CB-112)	2	EA	2.500	5.0	\$69.95	\$ 350	\$0.00	\$ -	\$815.00	\$ 1,630	\$0.00	\$ -	\$ 297	\$ 2,277	
CB	23-25	A-CB-103 (Note B & J)	Disconnect (12) rooftop equipment, remove (9) & reset (3) after roof replacement, coordinate with roofing contractor	1	LS	44.800	44.8	\$69.95	\$ 3,134	\$9,600.00	\$ 9,600	\$5,500.00	\$ 5,500	\$0.00	\$ -	\$ 2,735	\$ 20,969	
CB	23-26	MC-CB-101 & 102	Refrigerant piping , roof pipe curbs & condensate piping for (5) new split system units (Assume pipe routing)	1	ALLOW	0.000	0.0	\$69.95	\$ -	\$0.00	\$ -	\$7,250.00	\$ 7,250	\$0.00	\$ -	\$ 1,088	\$ 8,338	
CB	23-27	MC-CB-101 & 603	Interface of new equipment with existing BAS	1	ALLOW	0.000	0.0	\$69.95	\$ -	\$0.00	\$ -	\$9,000.00	\$ 9,000	\$0.00	\$ -	\$ 1,350	\$ 10,350	

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
FB			Control Building														
CB	26-17		Roof Top HVAC Disconnect Switch, 240V, N.F. Nema 4X	6	EA	4.00	24.00	\$69.60	\$ 1,670	\$0.00	\$ -	\$800.00	\$ 4,800	\$0.00	\$ -	\$ 971	\$ 7,441
CB	26-18		New Feeder to Roof Top HVAC Equipment	6	EA	16.00	96.00	\$69.60	\$ 6,682	\$0.00	\$ -	\$1,000.00	\$ 6,000	\$0.00	\$ -	\$ 1,902	\$ 14,584
CB	26-19		Interior HVAC Disconnect Switch, 240V, N.F. Nema 1	12	EA	3.00	36.00	\$69.60	\$ 2,506	\$0.00	\$ -	\$250.00	\$ 3,000	\$0.00	\$ -	\$ 826	\$ 6,331
CB	26-20	unit heaters	Interior HVAC Feeders, Radiant Panels, Split Air Handling Units	260	LF	0.16	41.60	\$69.60	\$ 2,895	\$0.00	\$ -	\$7.00	\$ 1,820	\$0.00	\$ -	\$ 707	\$ 5,423
CB	26-21		Relocate Manual Starter and Connect Wiring	1	EA	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$200.00	\$ 200	\$0.00	\$ -	\$ 114	\$ 870
CB	26-22		Lighting				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
CB	26-23		Demo Light Fixtures	58	EA	1.00	58.00	\$69.60	\$ 4,037	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 606	\$ 4,642
CB	26-24		Demo Devices, (Switches & Receptacles)	40	EA	0.40	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 167	\$ 1,281
CB	26-25		Recycle Fluorescent Bulbs and Ballasts	1	LS	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$400.00	\$ 400	\$0.00	\$ -	\$ 144	\$ 1,100
CB	26-26	quote	Type "LA" 2 x 4 LED Lay-In Fixture	17	EA	1.00	17.00	\$69.60	\$ 1,183	\$0.00	\$ -	\$99.00	\$ 1,683	\$0.00	\$ -	\$ 430	\$ 3,296
CB	26-27		Type "LA-EM" 2 x 4 LED Lay-In Fixture w/ Battery Pack			1.00	0.00	\$69.60	\$ -	\$0.00	\$ -	\$400.00	\$ -	\$0.00	\$ -	\$ -	N.I.C.
CB	26-28	quote	Type "LB" 2 x 2 LED Lay-In Fixture	15	EA	1.00	15.00	\$69.60	\$ 1,044	\$0.00	\$ -	\$97.00	\$ 1,455	\$0.00	\$ -	\$ 375	\$ 2,874
CB	26-29	quote	Type "LC" 48" LED Fixture Above Mirror, Direct / Indirect	2	EA	2.00	4.00	\$69.60	\$ 278	\$0.00	\$ -	\$150.00	\$ 300	\$0.00	\$ -	\$ 87	\$ 665
CB	26-30	quote	Type "LD" 1 x 4 LED Pendant Mounted Fixture	5	EA	1.50	7.50	\$69.60	\$ 522	\$0.00	\$ -	\$365.00	\$ 1,825	\$0.00	\$ -	\$ 352	\$ 2,699
CB	26-31	quote	Type "LE" 2 x 2 LED Flat Panel Lay-In Fixture	8	EA	1.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$69.00	\$ 552	\$0.00	\$ -	\$ 166	\$ 1,275
CB	26-32	quote	Type "EL" 2-Head LED Battery Pack	9	EA	1.50	13.50	\$69.60	\$ 940	\$0.00	\$ -	\$212.00	\$ 1,908	\$0.00	\$ -	\$ 427	\$ 3,275
CB	26-33	quote	Type "EX" LED Exit With Ni-Cad Battery	5	EA	1.25	6.25	\$69.60	\$ 435	\$0.00	\$ -	\$167.00	\$ 835	\$0.00	\$ -	\$ 191	\$ 1,461
CB	26-34	quote	Type "EM" Exterior Wallpack LED Fixture	6	EA	2.00	12.00	\$69.60	\$ 835	\$0.00	\$ -	\$493.00	\$ 2,958	\$0.00	\$ -	\$ 569	\$ 4,362
CB	26-35		Wet Well Lighting - Nothing Shown			3.50	0.00	\$69.60	\$ -	\$0.00	\$ -	\$1,000.00	\$ -	\$0.00	\$ -	\$ -	N.I.C.
CB	26-36		Roof Top Mechanical Equipment - Light, Recept., Switch	1	EA	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$1,500.00	\$ 1,500	\$0.00	\$ -	\$ 309	\$ 2,365
CB	26-37		Occupancy Sensor, Ceiling Mount, Dual Technology	11	EA	1.00	11.00	\$69.60	\$ 766	\$0.00	\$ -	\$110.00	\$ 1,210	\$0.00	\$ -	\$ 296	\$ 2,272
CB	26-38		Occupancy Sensor, Wall Switch	2	EA	1.00	2.00	\$69.60	\$ 139	\$0.00	\$ -	\$70.00	\$ 140	\$0.00	\$ -	\$ 42	\$ 321
CB	26-39		20A, 1P Toggle Switch	6	EA	0.50	3.00	\$69.60	\$ 209	\$0.00	\$ -	\$32.00	\$ 192	\$0.00	\$ -	\$ 60	\$ 461
CB	26-40		\$k Key Operated Switch	6	EA	0.50	3.00	\$69.60	\$ 209	\$0.00	\$ -	\$40.00	\$ 240	\$0.00	\$ -	\$ 67	\$ 516
CB	26-41		\$D Dimmer Switch	2	EA	0.50	1.00	\$69.60	\$ 70	\$0.00	\$ -	\$40.00	\$ 80	\$0.00	\$ -	\$ 22	\$ 172
CB	26-42		New Lighting Conduit and Wiring	200	LF	0.16	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$7.00	\$ 1,400	\$0.00	\$ -	\$ 544	\$ 4,171
CB	26-43		20A, 120V Receptacle, Replace With New / Reuse Wiring	17	EA	0.50	8.50	\$69.60	\$ 592	\$0.00	\$ -	\$25.00	\$ 425	\$0.00	\$ -	\$ 152	\$ 1,169
CB	26-44		20A, 120V GFI Receptacle, Replace With New / Reuse Wiring	4	EA	0.50	2.00	\$69.60	\$ 139	\$0.00	\$ -	\$45.00	\$ 180	\$0.00	\$ -	\$ 48	\$ 367
CB	26-45		20A, 120V GFI WP Receptacle, Replace With New / Reuse Wiring	4	EA	0.60	2.40	\$69.60	\$ 167	\$0.00	\$ -	\$55.00	\$ 220	\$0.00	\$ -	\$ 58	\$ 445
CB	26-46		20A, 120V Receptacle	2	EA	1.50	3.00	\$69.60	\$ 209	\$0.00	\$ -	\$50.00	\$ 100	\$0.00	\$ -	\$ 46	\$ 355
CB	26-47		20A, 120V GFI Receptacle	8	EA	1.50	12.00	\$69.60	\$ 835	\$0.00	\$ -	\$70.00	\$ 560	\$0.00	\$ -	\$ 209	\$ 1,604
CB	26-48		New Receptacle Conduit and Wiring	200	LF	0.16	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$7.00	\$ 1,400	\$0.00	\$ -	\$ 544	\$ 4,171
CB	26-49		Relocate 50A Receptacle and Wiring	1	EA	16.00	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$500.00	\$ 500	\$0.00	\$ -	\$ 242	\$ 1,856
	27		Division 27 - Communications														\$ 2,769
CB	27-1		Replace Data Outlets	8	EA	1.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$20.00	\$ 160.00	\$0.00	\$ -	\$ 108	\$ 824
CB	27-2		Replace Telephone Outlet	1	EA	1.00	1.00	\$69.60	\$ 70	\$0.00	\$ -	\$20.00	\$ 20.00	\$0.00	\$ -	\$ 13	\$ 103
CB	27-3		Demo Existing Intercom Speakers	7	EA	1.00	7.00	\$69.60	\$ 487	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 73	\$ 560
CB	27-4		Reinstall Existing Intercom Speakers	7	EA	2.00	14.00	\$69.60	\$ 974	\$0.00	\$ -	\$20.00	\$ 140.00	\$0.00	\$ -	\$ 167	\$ 1,282
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	28		Division 28 - Electronic Safety & Security														\$ 37,269
	28-1		New Fire Alarm System				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
CB	28-2		Demo Existing Fire Alarm Devices and Wiring	1	LS	16.00	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 167	\$ 1,281
CB	28-3		Fire Alarm Panel	1	EA	32.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$5,000.00	\$ 5,000	\$0.00	\$ -	\$ 1,084	\$ 8,311
CB	28-4		Smoke Detector	9	EA	1.50	13.50	\$69.60	\$ 940	\$0.00	\$ -	\$225.00	\$ 2,025	\$0.00	\$ -	\$ 445	\$ 3,409
CB	28-5		Pull Station, Weatherproof	2	EA	2.00	4.00	\$69.60	\$ 278	\$0.00	\$ -	\$180.00	\$ 360	\$0.00	\$ -	\$ 96	\$ 734
CB	28-6		Weatherproof Horn	4	EA	2.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$260.00	\$ 1,040	\$0.00	\$ -	\$ 240	\$ 1,836
CB	28-7		New Strobe	4	EA	1.50	6.00	\$69.60	\$ 418	\$0.00	\$ -	\$180.00	\$ 720	\$0.00	\$ -	\$ 171	\$ 1,308
CB	28-8		Fire Alarm Conduit and Wiring	600	LF	0.16	96.00	\$69.60	\$ 6,682	\$0.00	\$ -	\$8.00	\$ 4,800	\$0.00	\$ -	\$ 1,722	\$ 13,204
CB	28-9		Fire Alarm Panel 120V Power Wiring to Existing Panel LP	50	LF	0.16	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$7.00	\$ 350	\$0.00	\$ -	\$ 136	\$ 1,043
CB	28-10		Testing and Programming to Tie Into Existing System	1	LS	48.00	48.00	\$69.60	\$ 3,341	\$0.00	\$ -	\$2,000.00	\$ 2,000	\$0.00	\$ -	\$ 801	\$ 6,142
	40		Division 40 - Process Integration														\$ -
CB	40-1		No Work Included				0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	43		Division 43 - Process Gas and Liquid Handling														\$ -
CB	43-1		No Work Included														
	46		Division 46 - Water and Wastewater Equipment														\$ -
CB	46-1		No Work Included														
			General Conditions														\$ 64,765
			Percentage for all general conditions items including but not limited	10	%		428.9	\$50.00	\$ 21,446	\$0.00	\$ 1,671	\$0.00	\$ 35,760	\$0.00	\$ -	\$ 5,888	\$ 64,765
			Contractor supervision														
			Temporary facilities for trailers														
			Computer systems and job support items														
			Project cleanup, dumpsters, etc.														
			Temporary toilets														
			Hauling														
			Project safety systems and items														
			Sub-Totals				4,302		\$ 260,939		\$ 18,383		\$ 393,364		0	\$ 82,178	\$ 755,000

Operations Building

Construction Cost Breakdown

ESTIMATE SUMMARY BY CSI DIVISION			
CSI NO.	DESCRIPTION	AMOUNT	
1	GENERAL REQUIREMENTS	\$	199,805
2	SITework AND DEMOLITION	\$	12,808
3	CONCRETE	\$	20,475
4	MASONRY	\$	14,405
5	METALS	\$	11,635
6	WOOD, PLASTIC & COMPOSITE	\$	36,426
7	THERMAL AND MOISTURE PROTECTION	\$	11,370
8	OPENINGS	\$	23,748
9	FINISHES	\$	20,334
10	SPECIALTIES	\$	-
11	EQUIPMENT	\$	-
12	FURNISHINGS	\$	-
13	SPECIAL CONSTRUCTION	\$	-
14	CONVEYING SYSTEMS	\$	-
21	FIRE SUPPRESSION	\$	-
22	PLUMBING SYSTEMS	\$	17,428
23	HVAC SYSTEMS	\$	89,118
26	ELECTRICAL	\$	946,119
27	COMMUNICATIONS	\$	-
28	ELECTRONIC SAFETY & SECURITY	\$	25,876
31	EARTHWORK	\$	-
32	EXTERIOR IMPROVEMENTS	\$	-
33	UTILITIES	\$	-
40	PROCESS INTEGRATION	\$	15,658
43	PROCESS GAS AND LIQUID HANDLING	\$	261,930
46	WATER AND WASTEWATER EQUIPMENT	\$	294,071
	TOTAL	\$	2,001,205
	ROUNDED	\$	2,001,000

BID ITEMS			
ITEM NO.	DESCRIPTION	AMOUNT	
1	General Trades	\$	1,801,400
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6		\$	-
7		\$	-
8		\$	199,805
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
	TOTAL	\$	2,001,205
	ROUNDED	\$	2,001,000

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
OB			Operations Building														
	2		Division 2 - Site Work and Demolition														\$ 26,704
OB	2-1	A-OB-101	Demo Existing Roof Access Ladder including walk-over platform	1	LS	12.00	12.00	\$54.33	\$ 652	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 65	\$ 717
OB	2-2	A-OB-101	Demo Existing Roof Copings, including blocking	241	LF	0.06	14.46	\$54.33	\$ 786	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 79	\$ 864
OB	2-3	A-OB-101	Remove exterior single doors and frames	4	EA	3.00	12.00	\$54.33	\$ 652	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 65	\$ 717
OB	2-4	A-OB-101	Remove interior single doors and frames	2	EA	3.00	6.00	\$54.33	\$ 326	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 33	\$ 359
OB	2-5	A-OB-201	Demo exterior Transom Panels	4	EA	3.00	12.00	\$54.33	\$ 652	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 65	\$ 717
OB	2-6	SD-OB-101	Demo existing Tank Pad and SOG at Recessed Storage OB-101, including Steps, Landing, Curb, Railings, etc.	305	SF	0.3	91.5	\$54.33	\$ 4,971	\$3.00	\$ 915	\$0.00	\$ -	\$0.00	\$ -	\$ 589	\$ 6,475
OB	2-7	SD-OB-101	Demo existing Equipment Pads including SOG for new Pads	194	SF	0.2	38.8	\$54.33	\$ 2,108	\$3.00	\$ 582	\$0.00	\$ -	\$0.00	\$ -	\$ 269	\$ 2,959
OB	2-8	SD-OB-101	Demo existing frost slab and slab on grade	1	CY	2.2	2.2	\$54.33	\$ 122	\$47.50	\$ 48	\$0.00	\$ -	\$0.00	\$ -	\$ 17	\$ 186
OB	2-9	SD-OB-101	Demolish existing 8" slab and excavation for containment area	291	CY	0.4	116.4	\$54.33	\$ 6,324	\$10.00	\$ 2,910	\$0.00	\$ -	\$0.00	\$ -	\$ 923	\$ 10,157
			Demo louvers	43	SF	0.09	3.9	\$54.33	\$ 209	\$5.00	\$ 213	\$0.00	\$ -	\$0.00	\$ -	\$ 42	\$ 465
			Demo exterior masonry wall	169	SF	0.3	42.3	\$54.33	\$ 2,299	\$3.00	\$ 508	\$0.00	\$ -	\$0.00	\$ -	\$ 281	\$ 3,088
							0.0	\$0.00	\$ -	\$0	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	3		Division 3 - Concrete														\$ 132,498
OB	3-1	A-OB-101	Remove Spalled Concrete and Patch Floor	24	SF	1.0	24.0	\$55.93	\$ 1,342		\$ -	\$15.00	\$ 360	\$0.00	\$ -	\$ 170	\$ 1,873
OB	3-2	S-OB-101	6" SOG over 3' Aggregate Base at floor recess, includes turn down walls w/ dowels drilled into existing slab along Ext. perimeter	305	SF	0.5	152.5	\$55.93	\$ 8,529	\$0.20	\$ 61	\$9.60	\$ 2,928	\$0.00	\$ -	\$ 1,152	\$ 12,670
OB	3-3	S-OB-101	8" SOG Infill Slab w/ dowels drilled along perimeter at old pads	43	SF	0.2	8.6	\$55.93	\$ 481	\$0.20	\$ 9	\$8.00	\$ 344	\$0.00	\$ -	\$ 83	\$ 917
OB	3-4	S-OB-101, -301	12" thick Equipment Isolation Pads, doweled into Exist. Pads	169	SF	0.3	50.7	\$55.93	\$ 2,836	\$0.20	\$ 34	\$10.00	\$ 1,690	\$0.00	\$ -	\$ 456	\$ 5,015
OB	3-5	S-OB-101, -301	Cast in Place Stairs & Landings	1	CY	28.0	23.8	\$55.93	\$ 1,331	\$20.00	\$ 17	\$518.00	\$ 440	\$0.00	\$ -	\$ 179	\$ 1,967
OB	3-6	S-OB-103, -302	8" thick Roof	8	CY	7.0	58.2	\$55.93	\$ 3,253	\$20.00	\$ 166	\$250.00	\$ 2,078	\$0.00	\$ -	\$ 550	\$ 6,047
			Containment Area														
OB	3-7	S-AT-102, -302	1'-3" avg Thick CIP Foundation below Containment: 17'-8" x 25'-10"	98	CY	7.0	686.0	\$55.93	\$ 38,368	\$20.00	\$ 1,960	\$250.00	\$ 24,500	\$0.00	\$ -	\$ 6,483	\$ 71,311
OB	3-8	S-AT-102, -302	5' Avg. High x 8" Thick CIP Walls at Containment Area	18	CY	20.0	358.0	\$55.93	\$ 20,023	\$20.00	\$ 358	\$250.00	\$ 4,475	\$0.00	\$ -	\$ 2,486	\$ 27,342
OB	3-9	S-AT-102, -302	8" Thick CIP Pad below FECL Tank	3	CY	10.0	25.0	\$55.93	\$ 1,398	\$20.00	\$ 50	\$300.00	\$ 750	\$0.00	\$ -	\$ 220	\$ 2,418
OB	3-10	C-00-101	Concrete Pipe bollards	4	EA	3.000	12.0	\$55.93	\$ 671	\$0.00	\$ -	\$500.00	\$ 2,000	\$0.00	\$ -	\$ 267	\$ 2,938
							0.0	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	4		Division 4 - Masonry														\$ 30,757
OB	4-1	S-OB-101	Ext. Temp. Opening & Masonry Infill, Tooth In to Match Existing, including Lintel	54	SF	1.50	80.59	\$56.12	\$ 4,523	\$3.00	\$ 161	\$3.00	\$ 161	\$0.00	\$ -	\$ 485	\$ 5,330
OB	4-2	S-OB-101, note only	Ext. Openings with Lintels for Process / Mechanical Penetrations	3	LS	0.00	0.00	\$56.12	\$ -	\$0.00	\$ -	\$750.00	\$ 2,250	\$0.00	\$ -	\$ 225	\$ 2,475
OB	4-3	S-OB-101, note only	Interior Masonry Infill, Tooth In to Match Existing, including Lintel	1	LS	0.00	0.00	\$56.12	\$ -	\$0.00	\$ -	\$5,000.00	\$ 5,000	\$0.00	\$ -	\$ 500	\$ 5,500
OB	4-4	A-OB-201	Exterior Masonry Tuckpointing per Note L	1	LS	0.00	0.00	\$56.12	\$ -	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$ 100	\$ 1,100
			Int. 8" CMU, Non-Load Bearing, Reinforced	620	SF	0.330	204.66	\$56.12	\$ 11,486	\$1.25	\$ 775	\$4.20	\$ 2,605	\$0.00	\$ -	\$ 1,487	\$ 16,352
	5		Division 5 - Metals														\$ 11,635
OB	5-1	A-OB-101	Roof Access Ladder including walk-over platform	19	VLF	0.94	17.86	\$62.63	\$ 1,119	\$1.13	\$ 21	\$101.00	\$ 1,919	\$0.00	\$ -	\$ 306	\$ 3,365
OB	5-2	S-OB-101, -301	HVAC Equip. Supports: HSS 6x6x3/8" Columns & Beams, including Base Plates w/ (4) 3/4" Dia. Anchors drill & epoxy w/ 6" Embeds into existing slab	0.80	TONS	84.00	67.29	\$62.63	\$ 4,214	\$680.00	\$ 545	\$3,445.00	\$ 2,760	\$0.00	\$ -	\$ 752	\$ 8,270
							0.0	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	6		Division 6 - Wood, Plastic & Composite														\$ 54,521
OB	6-1	A-OB-101	Blocking for Roof Copings	241	LF	0.08	19.28	\$58.35	\$ 1,125	\$0.00	\$ -	\$3.50	\$ 844	\$0.00	\$ -	\$ 197	\$ 2,165
OB	6-2	A-OB-301	Removable FRP Panel Wall	148	SF	0.18	26.34	\$62.63	\$ 1,650	\$0.00	\$ -	\$100.00	\$ 14,800	\$0.00	\$ -	\$ 1,645	\$ 18,095
OB	6-3	S-OB-101	FRP Grating, including Framing at Containment Area	389	SF	0.00	0.00	\$62.63	\$ -	\$0.00	\$ -	\$80.00	\$ 31,146	\$0.00	\$ -	\$ 3,115	\$ 34,261
	7		Division 7 - Thermal and Moisture Protection														\$ 11,370
OB	7-1	A-OB-101	Prefinished metal Coping	241	LF	0.20	48.20	\$59.78	\$ 2,881	\$1.00	\$ 241	\$20.00	\$ 4,820	\$0.00	\$ -	\$ 794	\$ 8,737
OB	7-2	A-OB-201	Sealant w/backer rod - Control Joints	86	LF	0.11	9.46	\$59.78	\$ 566	\$1.00	\$ 86	\$1.50	\$ 129	\$0.00	\$ -	\$ 78	\$ 859
OB	7-3	A-OB-201	Windows & Louvers Sealants	147	LF	0.11	16.17	\$59.78	\$ 967	\$1.00	\$ 147	\$1.50	\$ 221	\$0.00	\$ -	\$ 133	\$ 1,468
OB	7-4	A-OB-201	Pipe Penetration Sealant	2	EA	2.00	4.00	\$59.78	\$ 239	\$10.00	\$ 20	\$10.00	\$ 20	\$0.00	\$ -	\$ 28	\$ 307
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	8		Division 8 - Openings														\$ 23,748
OB	8-1	A-OB-101	Exterior FRP doors w/ Frame incl. Hardware	4	EA	8.00	32.00	\$58.35	\$ 1,867	\$0.00	\$ -	\$2,550.00	\$ 10,200	\$0.00	\$ -	\$ 1,207	\$ 13,274
OB	8-2	A-OB-101	Interior FRP doors w/ Frame incl. Hardware	2	EA	8.00	16.00	\$58.35	\$ 934	\$0.00	\$ -	\$2,350.00	\$ 4,700	\$0.00	\$ -	\$ 563	\$ 6,197
OB	8-3	A-OB-201	Aluminum Storefront Transon Window w/1" insulated glass	40	SF	0.26	10.40	\$58.35	\$ 607	\$1.30	\$ 52	\$60.00	\$ 2,400	\$0.00	\$ -	\$ 306	\$ 3,365
OB	8-4	A-OB-201	Metal Louvers Screen	18	SF	0.19	3.42	\$58.35	\$ 200	\$0.00	\$ -	\$35.00	\$ 630	\$0.00	\$ -	\$ 83	\$ 913
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
	9		Division 9 - Finishes														\$ 20,334
OB	9-1	A-OB-101	Paint existing interior block walls, assumed 14' high	5,586	SF	0.03	167.58	\$52.00	\$ 8,714	\$0.00	\$ -	\$0.15	\$ 838	\$0.00	\$ -	\$ 955	\$ 10,507
OB	9-2	A-OB-101	Paint existing exposed structure, ducts, conduits, piping, etc.	3,041	SF	0.04	121.64	\$52.00	\$ 6,325	\$0.00	\$ -	\$0.20	\$ 608	\$0.00	\$ -	\$ 693	\$ 7,627
OB	9-3	A-OB-101	Paint existing gas piping per General Note on Roof Plan	1	LS	0.00	0.00	\$52.00	\$ -	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$ 100	\$ 1,100
OB	9-4	A-OB-101	Coat existing floor per Key Note M	1	LS	0.00	0.00	\$52.00	\$ -	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$ 100	\$ 1,100

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
OB			Operations Building														
	21		Division 21 - Fire Suppression														\$ -
OB	21-1	No drawings	No Work Included - No drawings assume not required				0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	N.I.C.
	22		Division 22 - Plumbing Systems														\$ 68,186
OB	22-1	PD-OB-101 (Note A thru D)	Remove existing Hot water heater, Emergency Shower, Tepid water storage tank and related piping and make safe in preparation of new work.	1	LS	17.300	17.3	\$67.67	\$ 1,171	\$0.00	\$ -	\$25.00	\$ 25	\$0.00	\$ -	\$ 179	\$ 1,375
OB	22-2	P-OB-101 (Note A thru D)	Piping & connections for re-routed domestic water in building and to service IWH Heater to NW corner of building. (1", 2" & 3" piping +	1	LS	0.00	0.00	\$67.67	\$ -	\$0.00	\$ -	\$7,805.00	\$ 7,805	\$0.00	\$ -	\$ 1,171	\$ 8,976
OB	22-3	P-OB-101 (Note A)	3" below grade piping and connection to 6" Main and repair pavement	1	LS	0.00	0.00	\$67.67	\$ -	\$0.00	\$ -	\$5,470.00	\$ 5,470	\$0.00	\$ -	\$ 821	\$ 6,291
OB	22-4	P-OB-101	3" pipe wall sleeve and link seal, includes coring wall for water main	1	EA	2.89	2.89	\$67.67	\$ 195	\$0.00	\$ -	\$165.00	\$ 165	\$0.00	\$ -	\$ 54	\$ 414
OB	22-5	P-OB-101	2" pipe wall sleeve and link seal, includes coring wall for branch to IWH Heater	1	EA	2.60	2.60	\$67.67	\$ 176	\$0.00	\$ -	\$148.00	\$ 148	\$0.00	\$ -	\$ 49	\$ 372
OB	22-6	P-OB-101	ES-1 Emergency Eye Wash Shower, Outdoor With heat trace Freeze Protection & alarm light package. (HAWS or Guardian GFR3100 and alarm light)	1	EA	4.00	4.00	\$67.67	\$ 271	\$0.00	\$ -	\$3,397.85	\$ 3,398	\$0.00	\$ -	\$ 550	\$ 4,219
OB	22-7	P-OB-101	ES-1 Emergency Eye Wash Shower, Indoor & alarm light package. (HAWS or Guardian 8330 and alarm light)	1	EA	4.000	4.00	\$67.67	\$ 271	\$0.00	\$ -	\$3,397.85	\$ 3,398	\$0.00	\$ -	\$ 550	\$ 4,219
OB	22-8	P-OB-101	IWH-1 Instantaneous Hot Water Heater, electric heater for emergency shower (HAWS model 9326) 54 KW, 480/3 phase	2	EA	12.00	24.00	\$67.67	\$ 1,624	\$0.00	\$ -	\$17,588.00	\$ 35,176	\$0.00	\$ -	\$ 5,520	\$ 42,320
	23		Division 23 - HVAC Systems														\$ 116,675
OB	23-1	MD-OB-101 (Notes A & B)	Remove Gas fired Furnace and ductwork system and controls in preparation of new work	1	LS	32.000	32.0	\$69.65	\$ 2,229	\$250.00	\$ 250	\$0.00	\$ -	\$0.00	\$ -	\$ 372	\$ 2,851
OB	23-2	MD-OB-101 (Notes C & K)	Remove flue through roof for hot water heater and patch. Balance of hot water heater work in Plumbing Division	1	EA	4.000	4.0	\$69.65	\$ 279	\$100.00	\$ 100	\$200.00	\$ 200	\$0.00	\$ -	\$ 87	\$ 665
OB	23-3	MD-OB-101 (Notes D thru G)	Remove (5) rooftop exhaust fans and controls	1	LS	25.000	25.0	\$69.65	\$ 1,741	\$250.00	\$ 250	\$0.00	\$ -	\$0.00	\$ -	\$ 299	\$ 2,290
OB	23-4	MD-OB-101 (Notes H thru J)	Remove existing actuator for dampers and replace actuator an linkage assembly at (5) locations	1	LS	20.000	20.0	\$69.65	\$ 1,393	\$0.00	\$ -	\$3,750.00	\$ 3,750	\$0.00	\$ -	\$ 771	\$ 5,914
OB	23-5	M-OB-101 (Note N)	H&V-1 Heating and ventilation unit, Constant Volume 2,700 CFM, indirect modulating, 2 stage heat, 200 MBH (BOD: Trane GXCA025P (Support steel frame in DIV 5)	1	LS	30.000	30.0	\$69.65	\$ 2,090	\$1,500.00	\$ 1,500	\$19,000.00	\$ 19,000	\$0.00	\$ -	\$ 3,388	\$ 25,978
OB	23-6	M-OB-101 (Note K)	EF-1 & EF-2 Rooftop louvered Exhaust Fan 8,500 CFM, 2 HP, (BOD: Greenheck LBP-30-20)	2	LS	10.000	20.0	\$69.65	\$ 1,393	\$300.00	\$ 600	\$4,615.00	\$ 9,230	\$0.00	\$ -	\$ 1,683	\$ 12,906
OB	23-7	M-OB-101 (Note K)	EF-3, EF-4 & EF-5 Rooftop louvered Exhaust Fan 7,000 CFM, 1-1/2 HP, (BOD: Greenheck LBP-30-15)	3	LS	10.000	30.0	\$69.65	\$ 2,090	\$300.00	\$ 900	\$4,560.00	\$ 13,680	\$0.00	\$ -	\$ 2,500	\$ 19,170
OB	23-8	M-OB-101	Ductwork (Galvanized)	785	LBS	0.098	76.9	\$69.65	\$ 5,358	\$0.00	\$ -	\$1.58	\$ 1,240	\$0.00	\$ -	\$ 990	\$ 7,588
OB	23-9	M-OB-101	Ductwork Insulation 1-1/2", .75 density	416	SF	0.050	20.8	\$69.65	\$ 1,449	\$0.00	\$ -	\$0.30	\$ 125	\$0.00	\$ -	\$ 236	\$ 1,810
OB	23-10	M-OB-101	SR-1 Supply Register Grille 24/10	1	EA	0.615	0.6	\$69.95	\$ 43	\$0.00	\$ -	\$76.88	\$ 77	\$0.00	\$ -	\$ 18	\$ 138
OB	23-11	M-OB-101	SR-1 Supply Register Grille 18/6	4	EA	0.444	1.8	\$69.95	\$ 124	\$0.00	\$ -	\$49.50	\$ 198	\$0.00	\$ -	\$ 48	\$ 371
OB	23-12	M-OB-101	RG-1 Return Grille 24/16	1	EA	0.444	0.4	\$69.95	\$ 31	\$0.00	\$ -	\$36.00	\$ 36	\$0.00	\$ -	\$ 10	\$ 77
OB	23-13	M-OB-101	RG-1 Return Grille 30/12	1	EA	0.444	0.4	\$69.95	\$ 31	\$0.00	\$ -	\$30.00	\$ 30	\$0.00	\$ -	\$ 9	\$ 70
OB	23-14	M-OB-101	14/12 Volume Damper	1	EA	0.471	0.5	\$69.95	\$ 33	\$0.00	\$ -	\$44.50	\$ 45	\$0.00	\$ -	\$ 12	\$ 89
OB	23-15	M-OB-101	18/6 Volume Damper	4	EA	0.400	1.6	\$69.95	\$ 112	\$0.00	\$ -	\$45.00	\$ 180	\$0.00	\$ -	\$ 44	\$ 336
OB	23-16	M-OB-101	24/16 Volume Damper	1	EA	0.727	0.7	\$69.95	\$ 51	\$0.00	\$ -	\$94.50	\$ 95	\$0.00	\$ -	\$ 22	\$ 167
OB	23-17	M-OB-101	24/16 Fire Damper	1	EA	0.727	0.7	\$69.95	\$ 51	\$0.00	\$ -	\$435.00	\$ 435	\$0.00	\$ -	\$ 73	\$ 559
OB	23-18	M-OB-101	24/10 Fire Damper	1	EA	0.533	0.5	\$69.95	\$ 37	\$0.00	\$ -	\$415.00	\$ 415	\$0.00	\$ -	\$ 68	\$ 520
OB	23-19	M-OB-101	24/24 Fire Damper (Clean existing transfer grille per Note L) Assume added Fire Damper	1	EA	1.000	1.0	\$69.95	\$ 70	\$0.00	\$ -	\$505.00	\$ 505	\$0.00	\$ -	\$ 86	\$ 661
OB	23-20	M-OB-101	Horizontal Concentric vent kit for H&V-1 along with 5" vent combustion & vent piping from unit to wall	1	ALLOW	0.000	0.0	\$69.95	\$ -	\$0.00	\$ -	\$1,550.00	\$ 1,550	\$0.00	\$ -	\$ 233	\$ 1,783
OB	23-21	M-OB-602	Interface of new equipment with existing BAS	1	ALLOW	0.000	0.0	\$69.95	\$ -	\$0.00	\$ -	\$4,500.00	\$ 4,500	\$0.00	\$ -	\$ 675	\$ 5,175
OB	23-22	M-OB-102	MAU-1 make air unit, 1,500 cfm, 1-1/2 hp	1	EA	15.545	15.5	\$69.95	\$ 1,087	\$0.00	\$ -	\$14,700.00	\$ 14,700	\$0.00	\$ -	\$ 2,368	\$ 18,155
OB	23-23	M-OB-102	New louver (48x36)	1	EA	2.500	2.5	\$69.95	\$ 175	\$0.00	\$ -	\$2,817.32	\$ 2,817	\$0.00	\$ -	\$ 449	\$ 3,441
OB	23-24	M-OB-102	New louvers (48x64)	1	EA	2.500	2.5	\$69.95	\$ 175	\$0.00	\$ -	\$5,008.56	\$ 5,009	\$0.00	\$ -	\$ 778	\$ 5,961
	26		Division 26 - Electrical Systems														\$ 986,185
OB	26-1		Incoming Electrical Service				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-2	Utility Company	New Utility Power Pole - by Utility Co.				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	N.I.C.
OB	26-3	E-00-101	Install Bollards at New Utility Pole	2	EA		0.00	\$69.60	\$ -	\$0.00	\$ -	\$1,000.00	\$ 2,000	\$0.00	\$ -	\$ 300	\$ 2,300
OB	26-4	E-00-101	Ductbank From New Utility Pole to Transformer Vault, 2-4" PVC	170	LF		0.00	\$69.60	\$ -	\$0.00	\$ -	\$110.00	\$ 18,700	\$0.00	\$ -	\$ 2,805	\$ 21,505
OB	26-5	E-00-101	New Utility Co. Transformer Vault / Concrete Pad	1	EA		0.00	\$69.60	\$ -	\$0.00	\$ -	\$5,000.00	\$ 5,000	\$0.00	\$ -	\$ 750	\$ 5,750
OB	26-6	Utility Company	1000 kva Transformer, 13.2kv - 480 / 277V, 3ph, Dry Type				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	N.I.C.
OB	26-7		Equipment				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-8		1200A, 480V CT Cabinet With Meter	1	EA	24.00	24.00	\$69.60	\$ 1,670	\$0.00	\$ -	\$2,500.00	\$ 2,500	\$0.00	\$ -	\$ 626	\$ 4,796
OB	26-9		Concrete Housekeeping Pad For SWGR and MCC	1	EA		0.00	\$69.60	\$ -	\$0.00	\$ -	\$3,000.00	\$ 3,000	\$0.00	\$ -	\$ 450	\$ 3,450
OB	26-10	TAG: SWBD-1	1200A, 480V Dual Feed Switchboard With ATO, 4-Section	1	EA	208.00	208.00	\$69.60	\$ 14,477	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$300,000.00	\$ 300,000	\$ 47,322	\$ 362,798
OB	26-11		Switchboard Circuit Breaker Remote Control Station	1	EA	4.00	4.00	\$69.60	\$ 278	\$0.00	\$ -	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$ 192	\$ 1,470
OB	26-12	TAG: MCC-OB	1200A, 480V MCC, 7-Section	1	EA	136.00	136.00	\$69.60	\$ 9,466	\$500.00	\$ 500	\$0.00	\$ -	\$140,000.00	\$ 140,000	\$ 22,495	\$ 172,460
OB	26-13		Switchgear Commissioning, Training, O&M	1	EA	80.00	80.00	\$69.60	\$ 5,568	\$0.00	\$ -	\$0.00	\$ -	\$20,000.00	\$ 20,000	\$ 3,835	\$ 29,403

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
OB			Operations Building														
OB	26-14		MCC Commissioning, Training, O&M	1	EA	80.00	80.00	\$69.60	\$ 5,568	\$0.00	\$ -	\$0.00	\$ -	\$10,000.00	\$ 10,000	\$ 2,335	\$ 17,903
OB	26-15		Disconnect / Remove Existing Panel LP-OB-1	1	EA	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 84	\$ 640
OB	26-16		Transformer T-OB-1 Concrete Pad	1	EA		0.00	\$69.60	\$ -	\$0.00	\$ -	\$500.00	\$ 500	\$0.00	\$ -	\$ 75	\$ 575
OB	26-17	TAG: T-OB-1	75 kva Transformer, 480 - 208 / 120V, 3ph, 4W	1	EA	28.00	28.00	\$69.60	\$ 1,949	\$100.00	\$ 100	\$5,300.00	\$ 5,300	\$0.00	\$ -	\$ 1,102	\$ 8,451
OB	26-18		Install New Panel OB-1 and Reconnect All Wiring	1	EA	32.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$4,300.00	\$ 4,300	\$0.00	\$ -	\$ 979	\$ 7,506
OB	26-19		Disconnect / Remove Existing Panel LP-OB-2	1	EA	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 84	\$ 640
OB	26-20		Install New Panel OB-2 and Reconnect All Wiring	1	EA	24.00	24.00	\$69.60	\$ 1,670	\$0.00	\$ -	\$4,000.00	\$ 4,000	\$0.00	\$ -	\$ 851	\$ 6,521
OB	26-21	New Panel	Install New Panel OB-3	1	EA	16.00	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$4,000.00	\$ 4,000	\$0.00	\$ -	\$ 767	\$ 5,881
OB	26-22		30A Disconnect Switch	12	EA	3.00	36.00	\$69.60	\$ 2,506	\$0.00	\$ -	\$850.00	\$ 10,200	\$0.00	\$ -	\$ 1,906	\$ 14,611
OB	26-23		400A Disconnect Switch	4	EA	10.00	40.00	\$69.60	\$ 2,784	\$0.00	\$ -	\$1,200.00	\$ 4,800	\$0.00	\$ -	\$ 1,138	\$ 8,722
OB	26-24		Demolition				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-25		Disconnect Exterior Transformer Secondary Terminations	1	EA	4.00	4.00	\$69.60	\$ 278	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 42	\$ 320
OB	26-26	Utility Company	Remove Exterior Pad Mount Transformer, 1000 kva				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	N.I.C.
OB	26-27		Demo Transformer Concrete Pad, Backfill With Stone	1	EA	8.00	8.00	\$69.60	\$ 557	\$200.00	\$ 200	\$200.00	\$ 200	\$0.00	\$ -	\$ 144	\$ 1,100
OB	26-28		Demo 1200A Bolted Pressure Switch	1	EA	12.00	12.00	\$69.60	\$ 835	\$200.00	\$ 200	\$0.00	\$ -	\$0.00	\$ -	\$ 155	\$ 1,190
OB	26-29		Demo 1200A ATS Automatic Transfer Switch	1	EA	12.00	12.00	\$69.60	\$ 835	\$200.00	\$ 200	\$0.00	\$ -	\$0.00	\$ -	\$ 155	\$ 1,190
OB	26-30		Demo 1200A Distribution Switchboard - Pull Back Cables	1	EA	36.00	36.00	\$69.60	\$ 2,506	\$200.00	\$ 200	\$0.00	\$ -	\$0.00	\$ -	\$ 406	\$ 3,111
OB	26-31		Demo Blower LCP Local Control Panel	4	EA	12.00	48.00	\$69.60	\$ 3,341	\$200.00	\$ 800	\$0.00	\$ -	\$0.00	\$ -	\$ 621	\$ 4,762
OB	26-33		Demo MCC-OB	1	EA	24.00	24.00	\$69.60	\$ 1,670	\$200.00	\$ 200	\$0.00	\$ -	\$0.00	\$ -	\$ 281	\$ 2,151
OB	26-34		Remove Cables to Pad Mount Transformer	1	EA	12.00	12.00	\$69.60	\$ 835	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 125	\$ 960
OB	26-35		Remove Cables to Generator	1	EA	12.00	12.00	\$69.60	\$ 835	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 125	\$ 960
OB	26-36		Remove Cables to MCC Motor Control Center	1	EA	16.00	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 167	\$ 1,281
OB	26-37		Remove Wiring and Disconnect Switches For Digester Blowers	3	EA	8.00	24.00	\$69.60	\$ 1,670	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 251	\$ 1,921
OB	26-38		Remove Wiring and Disconnect Switches For Aeration Blowers	4	EA	8.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 334	\$ 2,561
OB	26-39		Remove Wiring from Ferrous Chloride Feed Pumps	1	LS	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 84	\$ 640
OB	26-40		Remove Instruments and Wiring	1	LS	16.00	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 167	\$ 1,281
OB	26-41		Misc. Demolition - Wiring and Equipment	1	LS	32.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 334	\$ 2,561
OB	26-42		New 480V Work				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-43		Incoming 1200A Underground Feeder to Switchgear SWGR-OB	20	LF	2.20	44.00	\$69.60	\$ 3,062	\$0.00	\$ -	\$225.00	\$ 4,500	\$0.00	\$ -	\$ 1,134	\$ 8,697
OB	26-44		4" Core Drill and Seal	4	EA	8.00	32.00	\$69.60	\$ 2,227	\$50.00	\$ 200	\$70.00	\$ 280	\$0.00	\$ -	\$ 406	\$ 3,113
OB	26-45		1000A Feeder to Existing Generator	60	LF	1.60	96.00	\$69.60	\$ 6,682	\$0.00	\$ -	\$130.00	\$ 7,800	\$0.00	\$ -	\$ 2,172	\$ 16,654
OB	26-46		900A Feeder to New MCC-OB	1	EA	32.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$3,000.00	\$ 3,000	\$0.00	\$ -	\$ 784	\$ 6,011
OB	26-47	150 HP	Feeder to Existing Aeration Blower #1	40	LF	0.42	16.96	\$69.60	\$ 1,180	\$0.00	\$ -	\$28.10	\$ 1,124	\$0.00	\$ -	\$ 346	\$ 2,650
OB	26-48	150 HP	Feeder to Existing Aeration Blower #2	30	LF	0.42	12.72	\$69.60	\$ 885	\$0.00	\$ -	\$28.10	\$ 843	\$0.00	\$ -	\$ 259	\$ 1,988
OB	26-49	150 HP	Feeder to New Aeration Blower Skid #3	50	LF	0.42	21.20	\$69.60	\$ 1,476	\$0.00	\$ -	\$28.10	\$ 1,405	\$0.00	\$ -	\$ 432	\$ 3,313
OB	26-50	150 HP	Feeder to New Aeration Blower Skid #4	40	LF	0.42	16.96	\$69.60	\$ 1,180	\$0.00	\$ -	\$28.10	\$ 1,124	\$0.00	\$ -	\$ 346	\$ 2,650
OB	26-51	75 HP	Feeder to New Digester Blower Skid #1 VFD	80	LF	0.28	22.56	\$69.60	\$ 1,570	\$0.00	\$ -	\$10.22	\$ 818	\$0.00	\$ -	\$ 358	\$ 2,746
OB	26-52	75 HP	Feeder to New Digester Blower Skid #2 VFD	65	LF	0.28	18.33	\$69.60	\$ 1,276	\$0.00	\$ -	\$10.22	\$ 664	\$0.00	\$ -	\$ 291	\$ 2,231
OB	26-53		Feeder to New Aeration Blower Motorized Valves	6	EA	24.00	144.00	\$69.60	\$ 10,022	\$0.00	\$ -	\$400.00	\$ 2,400	\$0.00	\$ -	\$ 1,863	\$ 14,286
OB	26-54		Install New 100A Feeder to Transformer T-OB-1	90	LF	0.28	25.38	\$69.60	\$ 1,766	\$0.00	\$ -	\$10.22	\$ 920	\$0.00	\$ -	\$ 403	\$ 3,089
OB	26-55		Install New 225A Feeder to New Panel OB-1	10	LF	0.43	4.30	\$69.60	\$ 299	\$0.00	\$ -	\$28.10	\$ 281	\$0.00	\$ -	\$ 87	\$ 667
OB	26-56	assume size	Install New 100A Feeder to New Panel OB-2	70	LF	0.28	19.74	\$69.60	\$ 1,374	\$0.00	\$ -	\$10.22	\$ 715	\$0.00	\$ -	\$ 313	\$ 2,403
OB	26-57		Install New 100A Feeder to New Panel OB-3	60	LF	0.28	16.92	\$69.60	\$ 1,178	\$0.00	\$ -	\$10.22	\$ 613	\$0.00	\$ -	\$ 269	\$ 2,059
OB	26-58	assume bottom entry	Install Pullbox / Splice Existing Feeder at old Dist. SWBD Location	6	EA	24.00	144.00	\$69.60	\$ 10,022	\$0.00	\$ -	\$750.00	\$ 4,500	\$0.00	\$ -	\$ 2,178	\$ 16,701
OB	26-59		<u>Extend Feeder From Pullbox to New Switchgear SWGR-OB :</u>				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-60		225A Feeder to Control Building	40	LF	0.42	16.96	\$69.60	\$ 1,180	\$0.00	\$ -	\$28.10	\$ 1,124	\$0.00	\$ -	\$ 346	\$ 2,650
OB	26-61		200A Feeder to Admin & Lab Building	40	LF	0.42	16.96	\$69.60	\$ 1,180	\$0.00	\$ -	\$28.10	\$ 1,124	\$0.00	\$ -	\$ 346	\$ 2,650
OB	26-62		150A Feeder to Sludge Dewatering Building	40	LF	0.33	13.28	\$69.60	\$ 924	\$0.00	\$ -	\$15.00	\$ 600	\$0.00	\$ -	\$ 229	\$ 1,753
OB	26-63		500A Feeder to Screen & Grit Building	40	LF	0.88	35.04	\$69.60	\$ 2,439	\$0.00	\$ -	\$58.86	\$ 2,354	\$0.00	\$ -	\$ 719	\$ 5,512
OB	26-64		200A Feeder to Sludge Pump Building	40	LF	0.42	16.96	\$69.60	\$ 1,180	\$0.00	\$ -	\$28.10	\$ 1,124	\$0.00	\$ -	\$ 346	\$ 2,650
OB	26-65		600A Feeder to Filter Influent Building	40	LF	1.10	44.00	\$69.60	\$ 3,062	\$0.00	\$ -	\$89.40	\$ 3,576	\$0.00	\$ -	\$ 996	\$ 7,634
OB	26-66		20A Feeder to Exhaust Fans, 5 @ 70 ft	350	LF	0.17	59.50	\$69.60	\$ 4,141	\$0.00	\$ -	\$10.00	\$ 3,500	\$0.00	\$ -	\$ 1,146	\$ 8,787
OB	26-67		20A Feeder to AHU	100	LF	0.17	17.00	\$69.60	\$ 1,183	\$0.00	\$ -	\$10.00	\$ 1,000	\$0.00	\$ -	\$ 327	\$ 2,511
OB	26-68		70A Feeder to Safety Shower Electric Water heater	100	LF	0.28	28.20	\$69.60	\$ 1,963	\$0.00	\$ -	\$10.22	\$ 1,022	\$0.00	\$ -	\$ 448	\$ 3,432
OB	26-69		100A Disconnect Switch, Safety Shower Heater	1	EA	4.00	4.00	\$69.60	\$ 278	\$0.00	\$ -	\$1,000.00	\$ 1,000	\$0.00	\$ -	\$ 192	\$ 1,470
OB	26-70		Heat Tracing				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-71		Heat Trace Controller	4	EA	8.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$1,500.00	\$ 6,000	\$0.00	\$ -	\$ 1,234	\$ 9,461
OB	26-72		Heat Trace Cable on Process Pipe	1	LS	32.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$3,200.00	\$ 3,200	\$0.00	\$ -	\$ 814	\$ 6,241
OB	26-73		Lighting				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-74		Demo 1 x 4 Fluorescent Light Fixtures	53	EA	1.00	53.00	\$69.60	\$ 3,689	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 553	\$ 4,242
OB	26-75		Recycle Fluorescent Bulbs and Ballasts	1	LS	8.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$400.00	\$ 400	\$0.00	\$ -	\$ 144	\$ 1,100
OB	26-76	quote	Type "LA" 1 x 4 LED Pendant Mounted Fixture	41	EA	1.50	61.50	\$69.60	\$ 4,280	\$0.00	\$ -	\$404.00	\$ 16,564	\$0.00	\$ -	\$ 3,127	\$ 23,971
OB	26-77	quote	Type "EX" LED Exit With Ni-Cad Battery	4	EA	1.50	6.00	\$69.60	\$ 418	\$0.00	\$ -	\$440.00	\$ 1,760	\$0.00	\$ -	\$ 327	\$ 2,504
OB	26-78	quote	Type "EL" 2-Head LED Battery Pack	9	EA	2.00	18.00	\$69.60	\$ 1,253	\$0.00	\$ -	\$463.00	\$ 4,167	\$0.00	\$ -	\$ 813	\$ 6,233
OB	26-79	quote	Type "EM" Exterior Wallpack LED Fixture	5	EA	2.00	10.00	\$69.60	\$ 696	\$0.00	\$ -	\$493.00	\$ 2,465	\$0.00	\$ -	\$ 474	\$ 3,635
OB	26-80	quote	Type "FL" Exterior Wall Mounted Flood Light w/ Photocell	2	EA	2.50	5.00	\$69.60	\$ 348	\$0.00	\$ -	\$472.00	\$ 944	\$0.00	\$ -	\$ 194	\$ 1,486
OB	26-81		20A, 3-Way Toggle Switch, Replace With New / Reuse Wiring	19	EA	0.60	11.40	\$69.60	\$ 793	\$0.00	\$ -	\$35.00	\$ 665	\$0.00	\$ -	\$ 219	\$ 1,677
OB	26-82		New Lighting Conduit and Wiring	30	LF	0.16	4.80	\$69.60	\$ 334	\$0.00	\$ -	\$7.00	\$ 210	\$0.00	\$ -	\$ 82	\$ 626
OB	26-83		20A, 120V Receptacle, Replace With New / Reuse Wiring	17	EA	0.50	8.50	\$69.60	\$ 592	\$0.00	\$ -	\$45.00	\$ 765	\$0.00	\$ -	\$ 203	\$ 1,560
OB	26-84		30A Twist Lock Receptacle, Nema 4 Stainless Steel, WP	1	EA	2.00	2.00	\$69.60	\$ 139	\$0.00	\$ -	\$250.00	\$ 250	\$0.00	\$ -	\$ 58	\$ 448
OB	26-85		Instrument and Control Wiring				0.0	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
OB	26-86		Instrument Hook-up;	12	EA	2.00	24.0	\$69.60	\$ 1,670	\$0.00	\$ -	\$45.00	\$ 540	\$0.00	\$ -	\$ 332	\$ 2,542
OB	26-87		Extend Raceway From Existing PLC Location to New PLC	80	LF	0.20	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$5.00	\$ 400	\$0.00	\$ -	\$ 227	\$ 1,741
OB	26-88		Replace Wiring to Network Switch in Control Bldg (to New PLC)	1	LS	24.00	24.00	\$69.60	\$ 1,670	\$0.00	\$ -	\$500.00	\$ 500	\$0.00	\$ -	\$ 326	\$ 2,496

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P		TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above		
OB			Operations Building															
OB	26-93		120V Feed to Blower Skid	4	EA	16.00	64.00	\$69.60	\$ 4,454	\$0.00	\$ -	\$300.00	\$ 1,200	\$0.00	\$ -	\$ 848	\$ 6,503	
OB	26-94		I/O MCC to Blowers	12	EA	6.00	72.00	\$69.60	\$ 5,011	\$0.00	\$ -	\$300.00	\$ 3,600	\$0.00	\$ -	\$ 1,292	\$ 9,903	
OB	26-95		I/O MCC to PLC	8	EA	4.00	32.00	\$69.60	\$ 2,227	\$0.00	\$ -	\$100.00	\$ 800	\$0.00	\$ -	\$ 454	\$ 3,481	
OB	26-96		I/O MCC to VCP	6	EA	4.00	24.00	\$69.60	\$ 1,670	\$0.00	\$ -	\$100.00	\$ 600	\$0.00	\$ -	\$ 341	\$ 2,611	
OB	26-97		I/O VFD to Blower	6	EA	2.00	12.00	\$69.60	\$ 835	\$0.00	\$ -	\$50.00	\$ 300	\$0.00	\$ -	\$ 170	\$ 1,305	
OB	26-98		I/O Local Instruments to PLC	6	EA	8.00	48.00	\$69.60	\$ 3,341	\$0.00	\$ -	\$200.00	\$ 1,200	\$0.00	\$ -	\$ 681	\$ 5,222	
OB	26-99		I/O Valves to VCP Vendor Control Panel	10	EA	4.00	40.00	\$69.60	\$ 2,784	\$0.00	\$ -	\$100.00	\$ 1,000	\$0.00	\$ -	\$ 568	\$ 4,352	
OB	26-100		Instrument Hook-up;	4	EA	2.00	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$45.00	\$ 180	\$0.00	\$ -	\$ 111	\$ 847	
OB	26-101		Fill Station I/O	7	EA	8.00	56.00	\$69.60	\$ 3,898	\$0.00	\$ -	\$300.00	\$ 2,100	\$0.00	\$ -	\$ 900	\$ 6,897	
OB	26-102		Fill Station 120V Feed	3	EA	12.00	36.00	\$69.60	\$ 2,506	\$0.00	\$ -	\$500.00	\$ 1,500	\$0.00	\$ -	\$ 601	\$ 4,606	
OB	26-103		FECL Storage Tank I/O	17	EA	10.00	170.00	\$69.60	\$ 11,832	\$0.00	\$ -	\$300.00	\$ 5,100	\$0.00	\$ -	\$ 2,540	\$ 19,472	
OB	23-104		FECL Storage Tank 120V Feed	4	EA	20.00	80.00	\$69.60	\$ 5,568	\$0.00	\$ -	\$400.00	\$ 1,600	\$0.00	\$ -	\$ 1,075	\$ 8,243	
	27		Division 27 - Communications															\$ -
	27-1		No Work Included				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ -
	28		Division 28 - Electronic Safety & Security															\$ 25,876
	28-1		New Fire Alarm System				0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ -
OB	28-2		Fire Alarm Panel	1	EA	16.00	16.00	\$69.60	\$ 1,114	\$0.00	\$ -	\$5,000.00	\$ 5,000	\$0.00	\$ -	\$ 917	\$ 7,031	
OB	28-3		Smoke Detector	2	EA	1.50	3.00	\$69.60	\$ 209	\$0.00	\$ -	\$225.00	\$ 450	\$0.00	\$ -	\$ 99	\$ 758	
OB	28-5		Weatherproof Horn	1	EA	2.00	2.00	\$69.60	\$ 139	\$0.00	\$ -	\$260.00	\$ 260	\$0.00	\$ -	\$ 60	\$ 459	
OB	28-6		Fire Alarm Conduit and Wiring	570	LF	0.15	85.50	\$69.60	\$ 5,951	\$0.00	\$ -	\$8.00	\$ 4,560	\$0.00	\$ -	\$ 1,577	\$ 12,087	
OB	28-7		Fire Alarm Panel 120V Power Wiring to Existing Panel LP	50	LF	0.16	8.00	\$69.60	\$ 557	\$0.00	\$ -	\$4.25	\$ 213	\$0.00	\$ -	\$ 115	\$ 885	
OB	28-8		Testing	1	LS	16.00	16.0	\$69.60	\$ 1,114	\$0.00	\$ -	\$2,000.00	\$ 2,000	\$0.00	\$ -	\$ 467	\$ 3,581	
OB	28-9		Security System				0.0	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ -
OB	28-10		Rework Wiring to Existing Door Strikes	4	EA	3.00	12.0	\$69.60	\$ 835	\$0.00	\$ -	\$25.00	\$ 100	\$0.00	\$ -	\$ 140	\$ 1,075	
	33		Division 33 - Utilities															\$ -
OB	33-1		C.E.I. to Provide Transformer, New Pole, 15kv Wiring	0	ALLOW		0.0	\$69.60	\$ -	\$0.00	\$ -	\$50,000.00	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ -
OB	33-2		1-1/2" CU - NPW	0	LF		0.0	\$0.00	\$ -	\$0.00	\$ -	\$36.50	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ -
	40		Division 40 - Process Integration															\$ 35,935
OB	40-1		Install PLC-OB Panel Blower Building	0	LS	120.00	0.0	\$69.60	\$ -	\$500.00	\$ -	\$0.00	\$ -	\$70,000.00	\$ -	\$ -	\$ -	\$ -
OB	40-2		Differential Pressure Switch	1	EA	5.00	5.0	\$72.76	\$ 364	\$0.00	\$ -	\$0.00	\$ -	\$650.00	\$ 650	\$ 152	\$ 1,166	
OB	40-3		FE/FIT Flow Transmitter	1	EA	10.00	10.0	\$72.76	\$ 728	\$0.00	\$ -	\$0.00	\$ -	\$3,500.00	\$ 3,500	\$ 634	\$ 4,862	
OB	40-4		PE/PIT Pressure Transmitter	1	EA	10.00	10.0	\$72.76	\$ 728	\$0.00	\$ -	\$0.00	\$ -	\$2,800.00	\$ 2,800	\$ 529	\$ 4,057	
OB	40-5		TE/TIT Temperature Transmitter	1	EA	8.00	8.0	\$72.76	\$ 582	\$0.00	\$ -	\$0.00	\$ -	\$1,700.00	\$ 1,700	\$ 342	\$ 2,624	
OB	40-6		Pressure Gauge	2	EA	4.00	8.0	\$72.76	\$ 582	\$0.00	\$ -	\$0.00	\$ -	\$350.00	\$ 700	\$ 192	\$ 1,474	
OB	40-7		Temperature Gauge	2	EA	4.00	8.0	\$72.76	\$ 582	\$0.00	\$ -	\$0.00	\$ -	\$350.00	\$ 700	\$ 192	\$ 1,474	
OB	40-8		FECL Fill Station LCP Local Control Panel	1	EA	16.00	16.0	\$69.60	\$ 1,114	\$0.00	\$ -	\$200.00	\$ 200	\$7,500.00	\$ 7,500	\$ 1,322	\$ 10,136	
OB	40-9		LSH Level Switch	1	EA	5.00	5.0	\$72.76	\$ 364	\$0.00	\$ -	\$0.00	\$ -	\$350.00	\$ 350	\$ 107	\$ 821	
OB	40-10		FSH Flow Switch	1	EA	5.00	5.0	\$72.76	\$ 364	\$0.00	\$ -	\$0.00	\$ -	\$550.00	\$ 550	\$ 137	\$ 1,051	
OB	40-11		LE/LIT Level Transmitter	1	EA	10.00	10.0	\$72.76	\$ 728	\$0.00	\$ -	\$0.00	\$ -	\$4,200.00	\$ 4,200	\$ 739	\$ 5,667	
OB	40-12		Tank Level Gauge	1	EA	16.00	16.0	\$72.76	\$ 1,164	\$0.00	\$ -	\$350.00	\$ 350	\$750.00	\$ 750	\$ 340	\$ 2,604	
	43		Division 43 - Process Gas and Liquid Handling															\$ 261,930
OB	43-1	DD-OB-101 & 301	Flush Ferrous Tank & piping prior to demo (assume owner will drain tank & system to minimal level)	1	ALLOW	16.00	16.0	\$67.71	\$ 1,083	\$750.00	\$ 750.00	\$500.00	\$ 500	\$0.00	\$ -	\$ 350	\$ 2,683	
OB	43-2	DD-OB-101 & 301 (Note A)	Remove & Demo Ferrous Chloride Storage tank, piping, valves & controls associated with Tank in Pit Area	1	LS	96.00	96.0	\$67.71	\$ 6,500	\$500.00	\$ 500.00	\$0.00	\$ -	\$0.00	\$ -	\$ 1,050	\$ 8,050	
OB	43-3	DD-OB-101 (Note B)	Remove & Demo chloride feed pumps and piping & controls associated with chemical treatment pump in Pit Area	1	LS	16.00	16.0	\$67.71	\$ 1,083	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ 163	\$ 1,246	
OB	43-4	DD-OB-101 (Note D & E)	Remove (5) Exterior Intake Air filter / Silencer	5	EA	8.00	40.0	\$67.71	\$ 2,708	\$1,000.00	\$ 5,000.00	\$0.00	\$ -	\$0.00	\$ -	\$ 1,156	\$ 8,865	
OB	43-5	DD-OB-101 & 301 (Note D & E)	Disconnect, Remove & Demolish Aerobic Digester Blower for removal from building	3	EA	32.00	96.0	\$67.71	\$ 6,500	\$500.00	\$ 1,500.00	\$0.00	\$ -	\$0.00	\$ -	\$ 1,200	\$ 9,200	
OB	43-6	DD-OB-101 & 301 (Note D & E)	Disconnect, Remove with limited demo Aeration Tank Blower for removal from building	2	EA	26.00	52.0	\$67.71	\$ 3,521	\$500.00	\$ 1,000.00	\$0.00	\$ -	\$0.00	\$ -	\$ 678	\$ 5,199	
OB	43-7	DD-OB-101 (Note F)	Remove existing process air piping 8" - 16" as indicated on drawings	1	LS	0.00	0.0	\$67.71	\$ -	\$0.00	\$ -	\$9,897.00	\$ 9,897	\$0.00	\$ -	\$ 1,485	\$ 11,382	
OB	43-8	DD-OB-101 (Note G & I)	Remove existing 3/4" PVC-FECL and Cap at wall + PVC at wall up to above roof at original loading fill pit, Photo 3	1	LS	6.00	6.0	\$67.71	\$ 406	\$0.00	\$ -	\$250.00	\$ 250	\$0.00	\$ -	\$ 98	\$ 755	
OB	43-9	D-OB-101	16" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	87	LF	1.513	131.6	\$67.71	\$ 8,912.74	\$3.57	\$ 311	\$292.00	\$ 25,404	\$0.00	\$ -	\$ 5,194	\$ 39,821	
OB	43-10	D-OB-101	14" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	12	LF	1.328	15.9	\$67.71	\$ 1,079.03	\$3.12	\$ 37	\$250.00	\$ 3,000	\$0.00	\$ -	\$ 617	\$ 4,734	
OB	43-11	D-OB-101	10" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	39	LF	0.960	37.4	\$67.71	\$ 2,535.06	\$1.70	\$ 66	\$174.00	\$ 6,786	\$0.00	\$ -	\$ 1,408	\$ 10,795	
OB	43-12	D-OB-101	8" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	158	LF	0.727	114.9	\$67.71	\$ 7,777.58	\$1.70	\$ 269	\$126.00	\$ 19,908	\$0.00	\$ -	\$ 4,193	\$ 32,147	
OB	43-13	DD-AT-101	4" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	20	LF	0.381	7.6	\$67.71	\$ 515.95	\$1.34	\$ 27	\$62.00	\$ 1,240	\$0.00	\$ -	\$ 267	\$ 2,050	
OB	43-14	D-OB-101	Stainless Steel Fittings: Elbows, Tee's, reducers & added flanges for stainless steel piping in blower building (4" - 16" piping)	1	ALLOW	0.000	0.0	\$67.71	\$ -	\$0.00	\$ -	\$49,135.00	\$ 49,135	\$0.00	\$ -	\$ 7,370	\$ 56,505	
OB	43-15	D-OB-101	8" blind flange at existinq steel piping	1	EA	2.000	2.0	\$67.71	\$ 135.42	\$0.00	\$ -	\$515.00	\$ 515	\$0.00	\$ -	\$ 98	\$ 748	

[illegible]

Aeration Tanks

Construction Cost Breakdown

ESTIMATE SUMMARY BY CSI DIVISION			
CSI NO.	DESCRIPTION		AMOUNT
1	GENERAL REQUIREMENTS	\$	60,924
2	EXISTING CONDITIONS	\$	-
3	CONCRETE	\$	4,661
4	MASONRY	\$	-
5	METALS	\$	181,649
6	WOOD, PLASTIC & COMPOSITE	\$	-
7	THERMAL AND MOISTURE PROTECTION	\$	-
8	OPENINGS	\$	-
9	FINISHES	\$	-
10	SPECIALTIES	\$	-
11	EQUIPMENT	\$	-
12	FURNISHINGS	\$	-
13	SPECIAL CONSTRUCTION	\$	-
14	CONVEYING SYSTEMS	\$	-
21	FIRE SUPPRESSION	\$	-
22	PLUMBING SYSTEMS	\$	-
23	HVAC SYSTEMS	\$	-
26	ELECTRICAL	\$	36,568
27	COMMUNICATIONS	\$	-
28	ELECTRONIC SAFETY & SECURITY	\$	-
31	EARTHWORK	\$	7,150
32	EXTERIOR IMPROVEMENTS	\$	40,048
33	UTILITIES	\$	550
40	PROCESS INTEGRATION	\$	-
43	PROCESS GAS AND LIQUID HANDLING	\$	298,691
46	WATER AND WASTEWATER EQUIPMENT	\$	57,750
	TOTAL	\$	687,991
	ROUNDED	\$	688,000

BID ITEMS			
ITEM NO.	DESCRIPTION		AMOUNT
1	General Trades	\$	627,066
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6		\$	-
7		\$	-
8	General Conditions	\$	60,924
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
	TOTAL	\$	687,991
	ROUNDED	\$	688,000

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
			Aeration Tanks														
AT	2		Division 2 - Site Work and Demolition														\$ 1,249
AT	2-1	S-AT-101	Sawcut & Demo Existing 5" Concrete SOG	227	SF		0.00	\$0.00	\$ -	\$0	\$ -	\$5.00	\$ 1,135	\$0.00	\$ -	\$ 114	\$ 1,249
			Division 3 - Concrete														\$ 4,661
			Existing Aeration Tanks														
AT	3-1	S-00-003 Repair Quantity Table	Control Joint Sealant Replacement	400	LF	0.1	40.0	\$55.93	\$ 2,237		\$ -	\$5.00	\$ 2,000	\$0.00	\$ -	\$ 424	\$ 4,661
			Division 5 - Metals														\$ 181,649
AT	5-1	S-AT-101, -501	Pipe Supports: HSS 6x6x3/8" Columns & Beams, including Base Plates w/ (4) 1/2" Dia. Anchors drill & epoxy w/ 6" Embeds into existing concrete "Y" Walls	13.00	TONS	84.00	1091.84	\$62.63	\$ 68,382	\$680.00	\$ 8,839	\$3,445.00	\$ 44,778	\$0.00	\$ -	\$ 12,200	\$ 134,198
AT	5-2	S-AT-101, -501	Drilling & Epoxy Grout 1/2" Dia. Anchors w/ 6" Embeds into existing concrete "Y" Walls: 35 Columns @ 4 anchors each	196	EA	0.94	185.02	\$62.63	\$ 11,588	\$0.00	\$ -	\$5.39	\$ 1,056	\$0.00	\$ -	\$ 2,529	\$ 15,173
AT	5-3	S-AT-101, -501	Cut / Modify / Relocate existing guard rails at new Columns	49	EA	4.00	196.00	\$62.21	\$ 12,193	\$0.00	\$ -	\$350.00	\$ 17,150	\$0.00	\$ -	\$ 2,934	\$ 32,277
			Division 6 - Wood, Plastic & Composite														\$ -
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
			Division 22 - Plumbing Systems														\$ -
							0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
			Division 26 - Electrical Systems														\$ 36,568
AT	26-1		Ductbank Civil Work From Blower Bldg. to FECL Storage Tank	140	LF		0.00	\$69.60	\$ -	\$0.00	\$ -	\$35.00	\$ 4,900	\$0.00	\$ -	\$ 735	\$ 5,635
AT	26-2		Conduit Penetrations Through Blower Building Wall	1	LS		0.00	\$69.60	\$ -	\$0.00	\$ -	\$2,500.00	\$ 2,500	\$0.00	\$ -	\$ 375	\$ 2,875
AT	26-3	E-AT-101	20A, 120V GFI WP Receptacle at Walkway - Mtd on Strut	6	EA	2.50	15.00	\$69.60	\$ 1,044	\$0.00	\$ -	\$250.00	\$ 1,500	\$0.00	\$ -	\$ 382	\$ 2,926
AT	26-4	E-AT-101	Receptacle Wiring in PVC Coat RGS Conduit	380	LF	0.21	79.80	\$69.60	\$ 5,554	\$0.00	\$ -	\$14.29	\$ 5,430	\$0.00	\$ -	\$ 1,648	\$ 12,632
AT	26-5						0.00	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AT	26-6		Instrument and Control Wiring				0.0	\$69.60	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
AT	26-7	S-AT-101, -501	Move / Modify / Reattach existing Electrical at new Columns	21	EA	6.00	126.00	\$69.60	\$ 8,770	\$0.00	\$ -	\$100.00	\$ 2,100	\$0.00	\$ -	\$ 1,630	\$ 12,500
			Division 27 - Communications														\$ -
			No Work Included				0.00	\$0.00	\$ -	\$0.00	\$ -	\$11.00	\$ -	\$0.00	\$ -	\$ -	\$ -
			Division 28 - Electronic Safety & Security														\$ -
			No Work Included				0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
			Division 31 - Earthwork														\$ 7,150
AT	31-1	C-00-101, S-AT-102	SWPP Erosion Control; Inlet Protection, Silt Fence, etc.	1	ALLOW		0.00	\$61.23	\$ -	\$0.00	\$ -	\$1,500.00	\$ 1,500	\$0.00	\$ -	\$ 150	\$ 1,650
AT	31-2	C-00-101, S-AT-102	Site Restoration Allowance	1	ALLOW		0.00	\$61.23	\$ -	\$0.00	\$ -	\$5,000.00	\$ 5,000	\$0.00	\$ -	\$ 500	\$ 5,500
			Division 32 - Exterior Improvements														\$ 38,799
AT	32-1	S-AT-101	5" Concrete SOG w/ #3 @ 8" OC EW	227	SF	0.13	28.38	\$55.93	\$ 1,587	\$0.20	\$ 45	\$4.66	\$ 1,057	\$0.00	\$ -	\$ 269	\$ 2,958
AT	32-2	C-00-101	SD Asphalt Pavement: 8" Asphalt over 8" Aggregate Base	440	SY	0.13	56.00	\$61.23	\$ 3,429	\$5.11	\$ 2,246	\$49.84	\$ 21,908	\$0.00	\$ -	\$ 2,758	\$ 30,341
AT	32-3	C-00-101	Existing Pavement Patching Allowance	1	ALLOW	0.00	0.00	\$55.93	\$ -	\$0.00	\$ -	\$5,000.00	\$ 5,000	\$0.00	\$ -	\$ 500	\$ 5,500
			Division 33 - Utilities														\$ 550
AT	33-1	C-00-101	Adjust Casting to Finish Grade	1	LS		0.0	\$0.00	\$ -	\$0.00	\$ -	\$500.00	\$ 500	\$0.00	\$ -	\$ 50	\$ 550
							0.0	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
			Division 40 - Process Integration														\$ -
			No Work Included				0.0	\$ -	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
							0.0	\$ -	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	\$ -
			Division 43 - Process Gas and Liquid Handling														\$ 298,691
AT	43-1	DD-AT-101	Remove existing process air piping 4" - 16" as indicated on drawings at Aeration Tanks 2 & 3	1	LS	0.00	0.0	\$67.71	\$ -	\$0.00	\$ -	\$10,649.76	\$ 10,650	\$0.00	\$ -	\$ 1,597	\$ 12,247

WORK BREAKDOWN			Description	Quantity	Units	LABOR				CONSTRUCTION EQUIP.		MATERIALS		ENGINEERED EQUIPMENT		OH & P	TOTAL COST
Facility	DIV-ITEM	Notes				MH/Unit	Total Manhours	Labor Rate	Labor Cost	Unit \$	Equipment Cost	Unit \$	Material Cost	Unit \$	Cost	See % Above	
AT			Aeration Tanks														
AT	43-2	DD-AT-101	16" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports + welded	42	LF	1.513	63.5	\$67.71	\$ 4,302.70	\$3.57	\$ 150	\$292.00	\$ 12,264	\$0.00	\$ -	\$ 2,507	\$ 19,224
AT	43-3	DD-AT-101	12" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	280	LF	1.143	320.0	\$67.71	\$ 21,669.91	\$2.67	\$ 748	\$208.00	\$ 58,240	\$0.00	\$ -	\$ 12,099	\$ 92,756
AT	43-4	DD-AT-101	6" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	58	LF	0.600	34.8	\$67.71	\$ 2,356.31	\$1.40	\$ 81	\$85.50	\$ 4,959	\$0.00	\$ -	\$ 1,109	\$ 8,506
AT	43-5	DD-AT-101	4" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	132	LF	0.381	50.3	\$67.71	\$ 3,405.27	\$1.34	\$ 177	\$62.00	\$ 8,184	\$0.00	\$ -	\$ 1,765	\$ 13,531
AT	43-6	DD-AT-101	2" Stainless Steel Piping Sch 10, Type 316 w/Hangers & Supports +	40	LF	0.239	9.6	\$67.71	\$ 647.31	\$0.84	\$ 34	\$36.50	\$ 1,460	\$0.00	\$ -	\$ 321	\$ 2,462
AT	43-7	D-AT-101	Stainless Steel Fittings: Elbows, reducers, couplings & added flanges for stainless steel piping in Aeration Tank area	1	ALLOW	0.000	0.0	\$67.71	\$ -	\$0.00	\$ -	\$75,990.25	\$ 75,990	\$0.00	\$ -	\$ 11,399	\$ 87,389
AT	43-8	D-AT-101 & Valve Schedule 40 05 64-6	12" Butterfly valve, flanged, Manual Operation (Chain wheel)	2	EA	8.000	16.0	\$67.71	\$ 1,083	\$53.50	\$ 107	\$2,600.00	\$ 5,200	\$0.00	\$ -	\$ 959	\$ 7,349
AT	43-9	D-AT-301 & Valve Schedule 40 05 64-6	6" Butterfly valve, flanged, Manual Operation	3	EA	4.800	14.4	\$67.71	\$ 975	\$0.00	\$ -	\$1,100.00	\$ 3,300	\$0.00	\$ -	\$ 641	\$ 4,916
AT	43-10	D-AT-301 & Valve Schedule 40 05 64-6	4" Butterfly valve, flanged, Manual Operation	6	EA	3.200	19.2	\$67.71	\$ 1,300	\$0.00	\$ -	\$700.00	\$ 4,200	\$0.00	\$ -	\$ 825	\$ 6,325
AT	43-11	D-AT-301	2" Ball Drain valve, Manual Operation	2	EA	0.889	1.8	\$67.71	\$ 120	\$0.00	\$ -	\$245.00	\$ 490	\$0.00	\$ -	\$ 91.56	\$ 702
AT	43-12	D-AT-301	6" Mechanical Coupling for connection to Aeration Tank diffusers	3	EA	1.000	3.0	\$67.71	\$ 203.13	\$0.00	\$ -	\$253.00	\$ 759	\$0.00	\$ -	\$ 144	\$ 1,106
AT	43-13	D-AT-301	4" Mechanical Coupling for connection to Aeration Tank diffusers	4	EA	0.727	2.9	\$67.71	\$ 196.90	\$0.00	\$ -	\$146.00	\$ 584	\$0.00	\$ -	\$ 117	\$ 898
AT	43-14	3" pipe is in the containment area at FECL	3" sch 80 PVC Ferrous Chloride piping in 6" containment piping. (assume containment pipe not required)	0	LF	0.58	0.0	\$67.71	\$ -	\$0.00	\$ -	\$43.76	\$ -	\$0.00	\$ -	\$ -	\$ -
AT	43-15	D-AT-102 & 302	3" sch 80 PVC Ferrous Chloride piping	30	LF	0.32	9.6	\$67.71	\$ 650	\$0.00	\$ -	\$14.60	\$ 438	\$0.00	\$ -	\$ 163	\$ 1,251
AT	43-16	D-AT-302	2" sch 80 PVC Drain piping (Below grade) (assume required to drain sump)	32	LF	0.29	9.3	\$67.71	\$ 631	\$6.25	\$ 200	\$11.25	\$ 360	\$0.00	\$ -	\$ 179	\$ 1,369
AT	43-17	D-AT-101 & 102	1" sch 80 PVC Ferrous Chloride piping in 3" containment piping	215	LF	0.41	88.8	\$67.71	\$ 6,012	\$0.00	\$ -	\$20.15	\$ 4,332	\$0.00	\$ -	\$ 1,552	\$ 11,896
AT	43-18	D-AT-101 , 102 & D-PST-101	1" sch 80 PVC Ferrous Chloride piping	228	LF	0.19	42.4	\$67.71	\$ 2,871	\$0.00	\$ -	\$9.25	\$ 2,109	\$0.00	\$ -	\$ 747	\$ 5,728
AT	43-19	D-AT-102 & 302	6" sch 80 PVC FECL overflow & vent piping	15	LF	0.42	6.3	\$67.71	\$ 428	\$0.00	\$ -	\$35.00	\$ 525	\$0.00	\$ -	\$ 143	\$ 1,095
AT	43-20	D-AT-102 & 302	2" sch 80 PVC Ferrous Chloride piping	10	LF	0.29	2.9	\$67.71	\$ 197	\$0.00	\$ -	\$11.55	\$ 116	\$0.00	\$ -	\$ 47	\$ 359
AT	43-21	D-AT-101 , 102 & D-PST-101	Misc. Fittings for PVC piping from outside of blower building to new tank location	1	ALLOW	54.751	54.8	\$67.71	\$ 3,707	\$0.00	\$ -	\$ 2,717.49	\$ 2,717	\$0.00	\$ -	\$ 964	\$ 7,388
AT	43-22	I-OB-601 + Valve Schedule 40 05 57.73-9	Electric Operated added to existing 24" slide gate at MLSS Channel. (Not on process mechanical plans)	1	ALLOW	16.000	16.0	\$67.71	\$ 1,083	\$0.00	\$ -	\$10,000.00	\$ 10,000	\$0.00	\$ -	\$ 1,108	\$ 12,192
	46		Division 46 - Water and Wastewater Equipment														\$ 57,750
AT	46-1	D-AT-102 & D-00-601	FECL-TNK-1 Ferric Chloride Storage FRP Tank 5,000 gallons	1	EA	40.0	40.0	\$67.71	\$ 2,708	\$1,500.00	\$ 1,500	\$0.00	\$ -	\$23,000.00	\$ 23,000	\$ 4,081	\$ 31,290
AT	46-2	D-AT-102	FECL-MP-1 & MP-2 Ferric Chloride Metering Feed Pump, (2) pump Skid Mounted	1	SKID	32.0	32.0	\$67.71	\$ 2,167	\$100.00	\$ 100	\$0.00	\$ -	\$20,000.00	\$ 20,000	\$ 3,340	\$ 25,607
AT	46-3		Aeration Diffuser System (NO work included) Only connection to existing				0.00	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$0.00	\$ -	\$ -	N.I.C.
AT	46-4		Testing, Training, Start-Up	1	LS				\$73.13		\$24.00		\$0.00		\$645.00	\$ 111.32	\$ 853.45
			General Conditions														\$ 60,924
			Percentage for all general conditions items including but not limited Contractor supervision	10	%		343.1	\$50.00	\$ 17,157	\$0.00	\$ 1,425	\$0.00	\$ 32,439	\$0.00	\$ 4,365	\$ 5,539	\$ 60,924
			Temporary facilities for trailers														
			Computer systems and job support items														
			Project cleanup, dumpsters, etc.														
			Temporary toilets														
			Hauling														
			Project safety systems and items														
			Sub-Totals				2,999		\$ 188,729		\$ 15,675		\$ 356,832		48,010	\$ 78,746	\$ 688,000

Filter Building

Construction Cost Breakdown

ESTIMATE SUMMARY BY CSI DIVISION			
CSI NO.	DESCRIPTION		AMOUNT
1	GENERAL REQUIREMENTS	\$	3,248
2	EXISTING CONDITIONS	\$	-
3	CONCRETE	\$	-
4	MASONRY	\$	-
5	METALS	\$	-
6	WOOD, PLASTIC & COMPOSITE	\$	-
7	THERMAL AND MOISTURE PROTECTION	\$	-
8	OPENINGS	\$	-
9	FINISHES	\$	-
10	SPECIALTIES	\$	-
11	EQUIPMENT	\$	-
12	FURNISHINGS	\$	-
13	SPECIAL CONSTRUCTION	\$	-
14	CONVEYING SYSTEMS	\$	-
21	FIRE SUPPRESSION	\$	-
22	PLUMBING SYSTEMS	\$	29,054
23	HVAC SYSTEMS	\$	-
26	ELECTRICAL	\$	4,903
27	COMMUNICATIONS	\$	-
28	ELECTRONIC SAFETY & SECURITY	\$	-
31	EARTHWORK	\$	-
32	EXTERIOR IMPROVEMENTS	\$	-
33	UTILITIES	\$	-
40	PROCESS INTEGRATION	\$	-
43	PROCESS GAS AND LIQUID HANDLING	\$	-
46	WATER AND WASTEWATER EQUIPMENT	\$	-
	TOTAL	\$	37,205
	ROUNDED	\$	37,000

BID ITEMS			
ITEM NO.	DESCRIPTION		AMOUNT
1	General Trades	\$	33,956
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6		\$	-
7		\$	-
8	General Conditions	\$	3,248
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
	TOTAL	\$	37,205
	ROUNDED	\$	37,000

Northeast Ohio Regional Sewer District

Labor Rates (OHIO Wage and Hour Division, May 2019 or as noted; Cuyahoga County)

Construction Type: Heavy
Davis-Bacon Prevailing Rates, Cuyahoga County, Ohio

Labor Classification	Base Hourly Rate (BHR)	Fringes	Total Prevailing Wage Rate (PWR)	Effective Date of Wage	Taxes & Insurance (@ 25% of Base Rate)*	Total Labor Rate	Sub OH & P (@ 15%)	Total Labor Rate	W/C Rate Ohio
1 Asbestos Abatement	\$26.63	\$21.04	\$47.67	5/1/2019	\$6.66	\$54.33	By GC	\$54.33	
2 Asbestos Insulation Worker	\$37.68	\$21.95	\$59.63	8/1/2018	\$9.42	\$69.05	By GC	\$69.05	
3 Boilermaker	\$38.05	\$29.71	\$67.76	4/3/2019	\$9.51	\$77.27	By GC	\$77.27	14.8%
4 Bricklayer	\$34.85	\$17.47	\$52.32	5/1/2019	\$8.71	\$61.03	\$9.15	\$70.19	12.7%
5 Carpenter/Millwright	\$30.40	\$20.35	\$50.75	9/19/2018	\$7.60	\$58.35	By GC	\$58.35	14.8%
6 Cement Mason	\$31.10	\$17.05	\$48.15	5/1/2018	\$7.78	\$55.93	By GC	\$55.93	12.3%
7 Drywall Finisher	\$29.64	\$15.81	\$45.45	5/25/2018	\$7.41	\$52.86	By GC	\$52.86	
8 Electrician	\$39.13	\$20.69	\$59.82	5/1/2019	\$9.78	\$69.60	\$10.44	\$80.04	6.1%
9 Elevator Mechanic	\$44.04	\$27.60	\$71.64	5/30/2012	\$11.01	\$82.65	By GC	\$82.65	
10 Glazier	\$32.07	\$17.65	\$49.72	5/1/2019	\$8.02	\$57.74	By GC	\$57.74	
11 Ironworker	\$31.30	\$23.50	\$54.80	5/24/2017	\$7.83	\$62.63	\$9.39	\$72.02	29.2%
12 Laborer	\$26.63	\$21.04	\$47.67	5/1/2019	\$6.66	\$54.33	By GC	\$54.33	14.8%
13 Lineman	\$46.93	\$18.60	\$65.53	4/24/2019	\$11.73	\$77.26	By GC	\$77.26	
14 Operator, Heavy Equipment	\$38.63	\$15.20	\$53.83	5/1/2019	\$9.66	\$63.49	By GC	\$63.49	14.8%
15 Painter	\$28.36	\$16.55	\$44.91	5/1/2019	\$7.09	\$52.00	By GC	\$52.00	12.4%
16 Piledriver	\$30.71	\$20.04	\$50.75	9/19/2018	\$7.68	\$58.43	By GC	\$58.43	19.1%
17 Pipefitter	\$37.67	\$25.67	\$63.34	7/18/2018	\$9.42	\$72.76	By GC	\$72.76	7.0%
18 Plasterer	\$29.11	\$18.48	\$47.59	5/25/2018	\$7.28	\$54.87	By GC	\$54.87	
19 Plumber	\$35.78	\$25.58	\$61.36	5/25/2018	\$8.95	\$70.31	\$10.55	\$80.85	7.0%
20 Roofer	\$32.80	\$18.78	\$51.58	5/25/2018	\$8.20	\$59.78	By GC	\$59.78	
21 Sheet Metal Worker	\$37.53	\$25.45	\$62.98	5/7/2018	\$9.38	\$72.36	\$10.85	\$83.22	9.7%
22 Truck Driver	\$26.90	\$14.85	\$41.75	8/12/2015	\$6.73	\$48.48	By GC	\$48.48	14.8%

*FICA~7.65%, FUTA/SUTA~1.4%, W/C Ohio~14.8%; Total=23.85%, rounded to 25% GC experience and actual ratings unknown.

Source: <http://www.com.ohio.gov/laws> (As of May 14, 2019)

Where unavailable, 14.8% Ohio Avg. used.

Civil Work (2 Laborers, 1 Operator, 1 Fitter)	\$61.23
Process Mech (2 Fitters, 1 Apprentice, 1 Operator)	\$67.71
Incinerator Equipment Installation (3 Boilermakers, 1 Laborer)	\$71.54
Other Equipment (2 Millwrights, 1 Apprentice, 1 Operator)	\$57.45
Sheet metal Work (3 Sheet metal Workers, 1 Apprentice)	\$69.65
Electrical Work (3 Electricians, 1 Apprentice)	\$66.99
Plumbing Work (3 Plumber, 1 Apprentice)	\$67.67
Masonry (3 Bricklayers, 2 Laborers)	\$58.35
Steel Erection (Ironworker)	\$62.63
Building Finishes (Carpenter)	\$58.35
Pile driving (1 Operator, 3 Pile drivers)	\$59.69
Fire Suppression Work (3 Pipe Fitters, 1 Apprentice)	\$68.81

AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE AND RECORD DEEDS TRANSFERRING PERMANENT PARCEL NUMBERS 481-12-095 (YORK ROAD), 482-03-004 (POTOMAC), 484-17-016 (KINGSTON WAY), 489-30-012 (APOLLO DRIVE), AND 489-31-037 (APOLLO DRIVE) FROM THE NORTH ROYALTON LAND REUTILIZATION PROGRAM TO THE CITY OF NORTH ROYALTON, AND DECLARING AN EMERGENCY

- WHEREAS:

Pursuant to O.R.C 5722 the City of North Royalton has created the North Royalton Land Reutilization Program; and
- WHEREAS:

Inadvertently the parcels of land identified herein, which all serve as storm water detention basins, were taken into the Land Bank and ought not be there as they have no saleable value and must not be alienated but preserved and maintained; and
- WHEREAS:

Council desires to remove said parcels from the Reutilization Program bank and transfer them to the City of North Royalton for preservation as important storm water facilities which are to be maintained by the city.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

- Section 1.

Council authorizes the Mayor to execute and record deeds from the North Royalton Land Reutilization Program to the City of North Royalton transferring Permanent Parcels Numbers 481-12-095, 482-03-004, 484-17-016, 489-30-012, and 489-31-037 as noted above for preservation as necessary storm water facilities to be maintained by the city.
- Section 2.

It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.
- Section 3.

This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that it is immediately necessary to authorize the Mayor to execute and record deed from the North Royalton Land Reutilization Program to the City of North Royalton transferring Permanent Parcels Numbers 481-12-095, 482-03-004, 484-17-016, 489-30-012, and 489-31-037 to retain title and maintain them as important storm water facilities.

THEREFORE, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PRESIDENT OF COUNCIL

APPROVED:

MAYOR

DATE PASSED:

DATE APPROVED:

ATTEST:

DIRECTOR OF LEGISLATIVE SERVICES

YEAS:

NAYS:



City of North Royalton

Mayor Larry Antoskiewicz

Thomas J. Jordan **Community Development Director**

11545 Royalton Road, North Royalton, OH 44133


Phone: 440-237-5484

Email: tjordan@northroyalton.org

Fax: 440-582-3089

TO: Thomas Kelly
Donna Vozar

CC: Mayor Larry Antoskiewicz

FROM: Thomas Jordan 

DATE: June 17, 2020

RE: Land Bank Properties/North Royalton Properties

The City of North Royalton has acquired the attached properties through the tax foreclosure process and are in the City of North Royalton Land Bank. We are in the process of placing all of the Land Bank parcels up for sale. We would like to keep these parcels and transfer them to the City of North Royalton and out of the Land Bank. You will see these are storm water detention facilities.

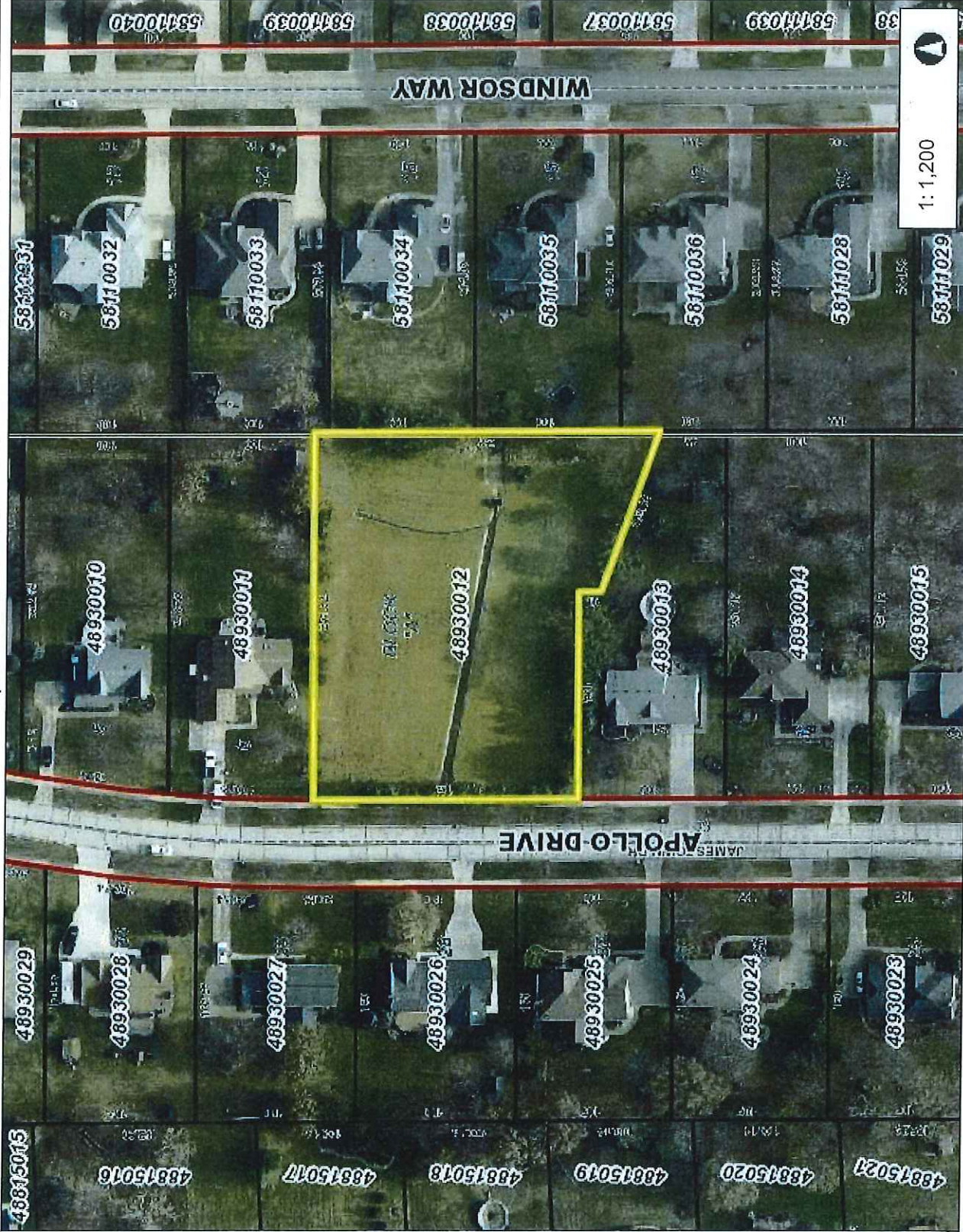
The following parcels are those that we would like to transfer:

481-12-095 York Road
482-03-004 Potomac
484-17-016 Kingston Way
489-30-012 Apollo Drive
489-31-037 Apollo Drive

Please let me know what our next steps are to have these parcels transferred.



Cuyahoga County GIS Viewer



200 0 100 200 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

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THIS MAP IS NOT TO BE USED FOR NAVIGATION



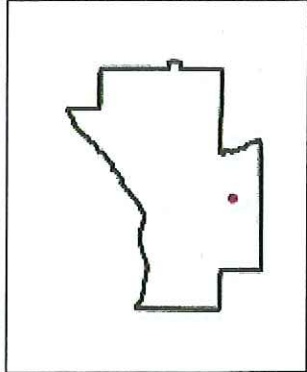
Date Created: 6/17/2020

Legend

- ☐ Municipalities
- ☐ Right Of Way
- ☐ Platted Centerline
- ☐ Parcel



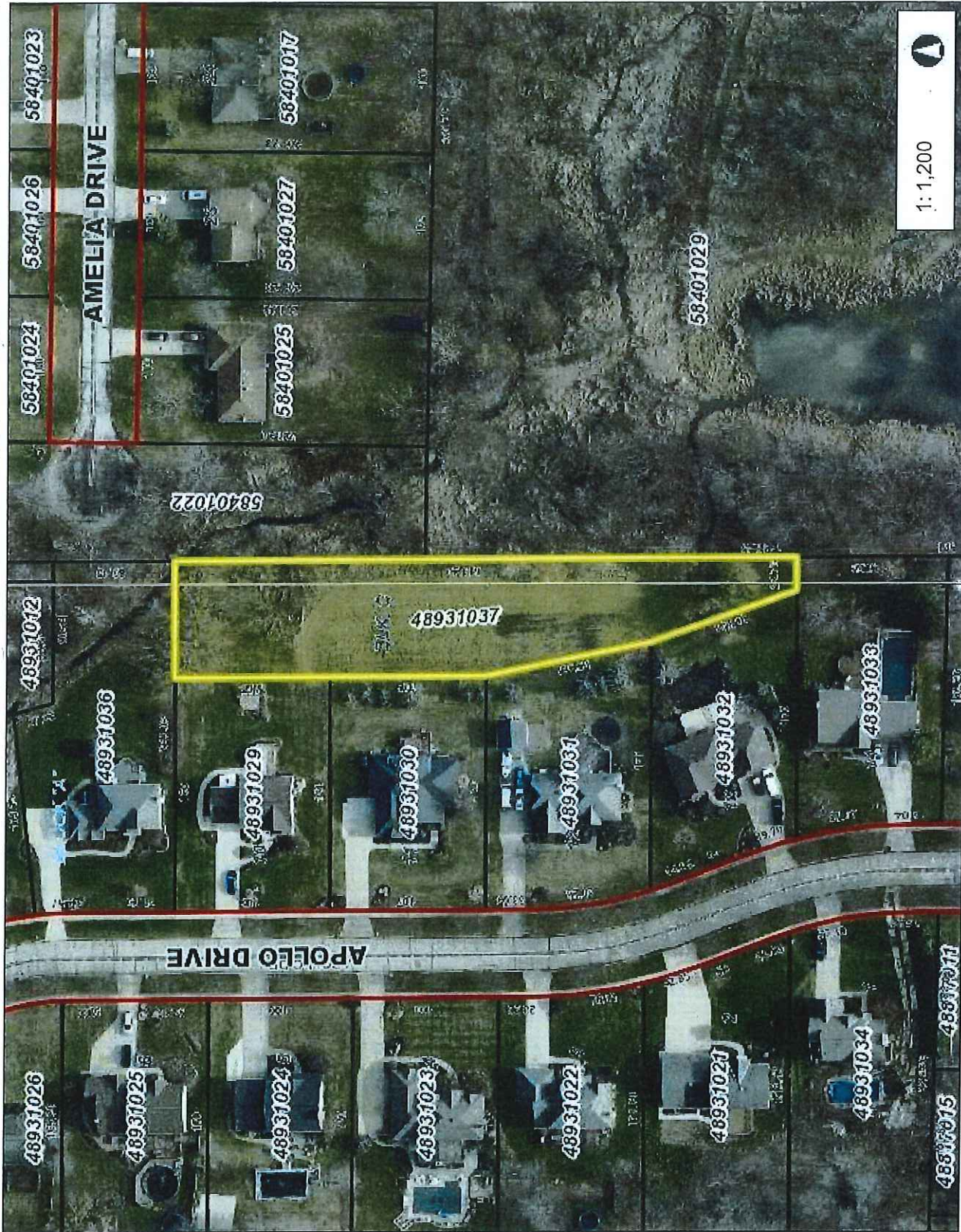
Cuyahoga County GIS Viewer



Date Created: 6/17/2020

Legend

- ☐ Municipalities
- ☐ Right Of Way
- ☐ Platted Centerline
- ☐ Parcel



1:1,200

200 0 100 200 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

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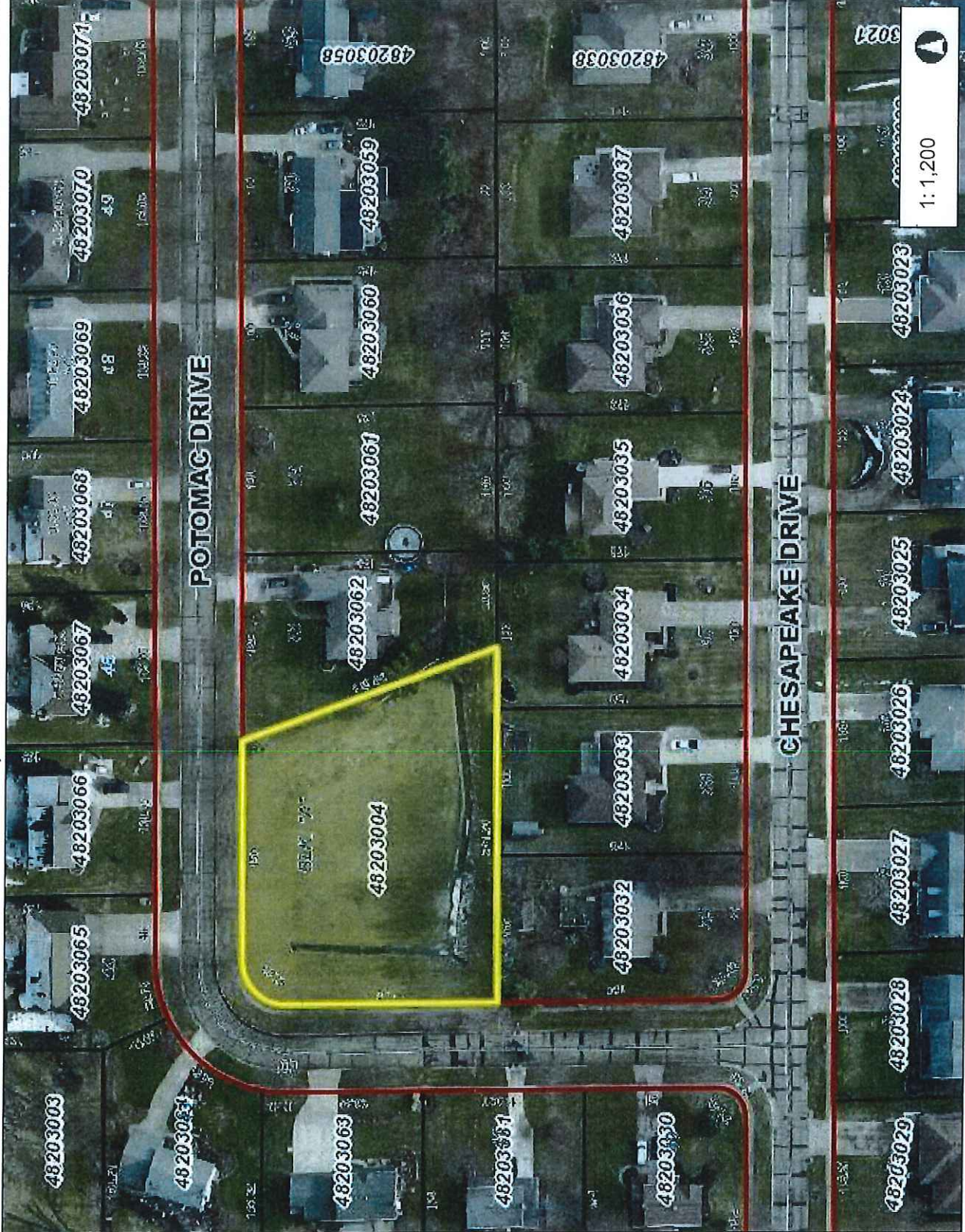
Cuyahoga County GIS Viewer



Date Created: 6/17/2020

Legend

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1:1,200



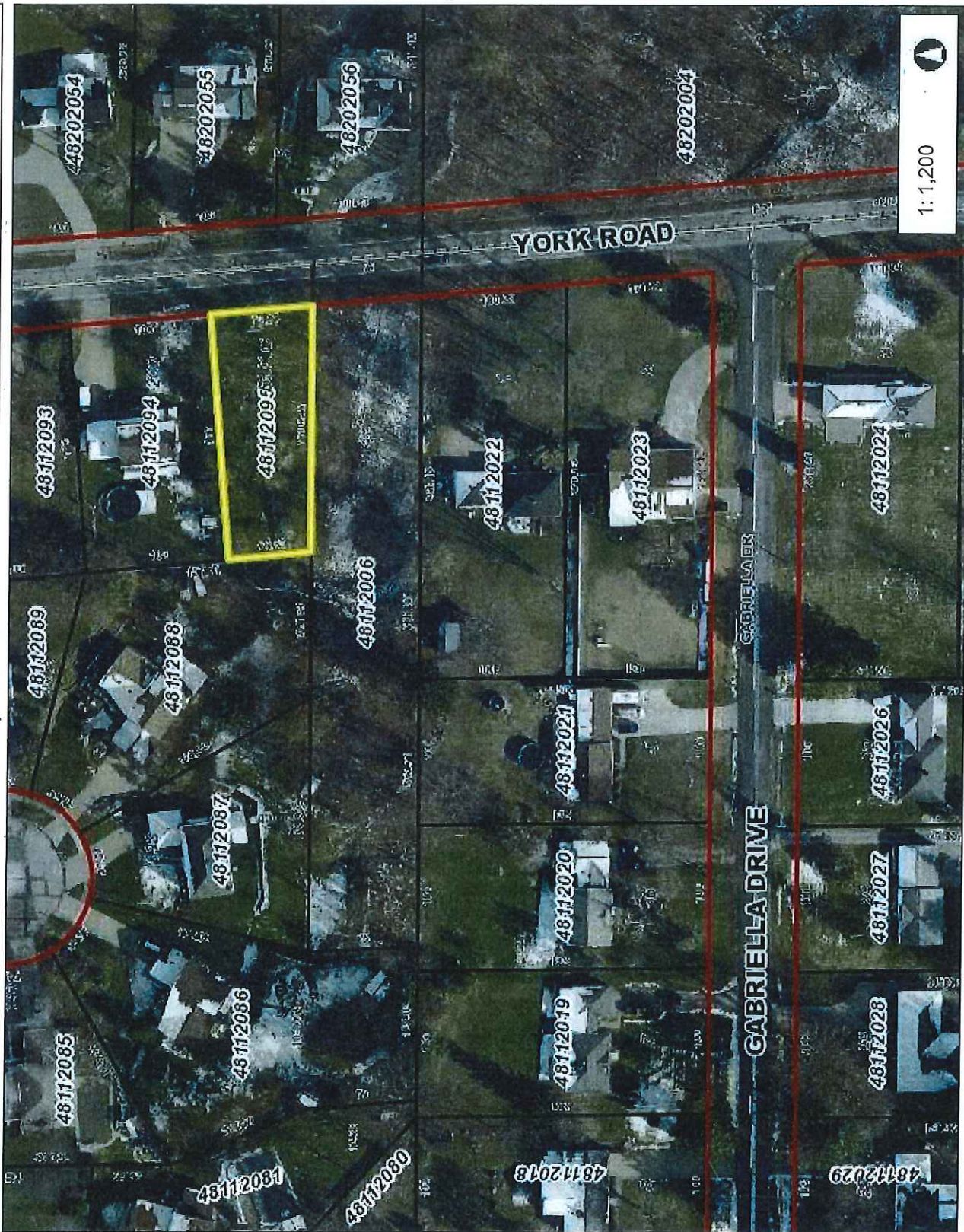
Cuyahoga County GIS Viewer



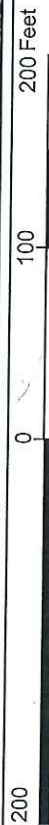
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Legend

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1:1,200



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Cuyahoga County GIS Viewer



Date Created: 6/17/2020

Legend

- ☐ Municipalities
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- ☐ Platted Centerline
- ☐ Parcel



1:1,200

200' 0 100 200 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

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AN ORDINANCE AMENDING THE CODIFIED ORDINANCES OF THE CITY OF NORTH ROYALTON, PART TWO ADMINISTRATION CODE, CHAPTER 214 GENERAL FEE SCHEDULE, SECTION 214.06 FEES IN THE STREETS, UTILITIES AND PUBLIC SERVICES CODE, PARAGRAPH (j), AND DECLARING AN EMERGENCY

- WHEREAS: In an effort to raise revenue from housing prisoners from other agencies and self-pay prisoners and enhance the overall revenue of the city jail, the jail administration proposes increasing the fee schedule as noted below; and
- WHEREAS: It is therefore necessary to amend the Codified Ordinances of the City of North Royalton, Part Two Administration Code, Chapter 214 General Fee Schedule, Section 214.06 Fees in the General Offenses Code, Paragraph (j) in order to adjust this fee; and
- WHEREAS: Council desires to provide for this amendment.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Council hereby amends the Codified Ordinances of the City of North Royalton, Part Two Administration Code, Chapter 214 General Fee Schedule, Section 214.06 Fees in the Streets, Utilities and Public Services Code, Paragraph (j) which shall hereafter read as follows:

- | | |
|---|--|
| (1) Use of City Jail facilities for housing of prisoners by other governmental entities: (1066.01(a)) | Not less than \$55.00 and not more than \$100.00 \$125.00 per day per prisoner, as negotiated by the Chief of Police and approved by the Mayor |
| (2) Private Pay Prisoners (1066.01(d)) | \$75.00 \$125.00 per day; \$50.00 for any stay less than 8 hours |
| (3) Registration in the North Royalton Corrections Officer Training Academy | \$500.00 |

Section 2. Part Two Administration Code, Chapter 214 General Fee Schedule, Section 214.06 Fees in the Streets, Utilities and Public Services Code, Paragraph (j) of the Codified Ordinances of the City of North Royalton is hereby amended as provided for herein and all other provisions of Chapter 214 shall remain in full force and effect.

Section 4. This Ordinance shall supersede all previously adopted Ordinances in direct conflict herewith.

Section 4. This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that it is immediately necessary for Council to amend the fees for use of city jail facilities for housing of prisoners by other governmental entities and self-pay prisoners.

THEREFORE, provided this Ordinance receives the affirmative vote of two-thirds of all members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

_____ PRESIDENT OF COUNCIL	APPROVED: _____ MAYOR
-------------------------------	--------------------------

DATE PASSED: _____ DATE APPROVED: _____

ATTEST: _____
DIRECTOR OF LEGISLATIVE SERVICES

YEAS:

NAYS: