Agenda -Notice of Meeting

Polk City | City Council
****
March 13, 2023 | 6:00 pm
City Hall Council Chambers
****

Public Meeting participation in person or via phone
Call in # 515-726-3598 Participant Code 535355
Public members can also provide comments* directly to support@polkcityia.gov
**any comments received before the time of the meeting will be made a part of the public hearing*
Broadcast live and playback will be available at https://www.youtube.com/c/polkcityiagovchannel
****

Steve Karsjen | Mayor
Rob Sarchet | Pro Tem
City Council Members: Jeff Walters | Dave Dvorak | Mandy Vogel | Ron Anderson

1. **Call to Order**

2. **Roll Call**

3. **Approval of Agenda**

4. **Public Hearing**
   a. Public Hearing on proposal to enter into an Essential Purpose Loan Agreement

   b. Public Hearing on proposal to enter into an Urban Renewal Loan Agreement
      i. Resolution 2023-28 taking additional action on proposals to enter into Loan Agreements, combining Loan Agreements, and providing for the levy of taxes to pay the same

   c. Public Hearing on proposed action to institute proceedings to enter into a Water Revenue Loan and Disbursement Agreement
      i. Resolution 2023-29 taking additional action with respect to a Water Revenue Loan and Disbursement Agreement and authorizing, approving and securing the payment of a $407,000 Water Revenue Loan and Disbursement Agreement Anticipation Project Note (IFA Interim Loan and Disbursement Agreement)

   d. Public Hearing on proposed plans, specifications, form of contract and estimate of cost for the 2023 Street Repairs Project
      i. Resolution 2023-30 adopting plans
      ii. Resolution 2023-31 awarding contract

5. **Public Comments:** *This is the time and place for comments for any item other than those that are a Public Hearing. If you wish to speak, please contact the City Clerk by 6pm on the date of the meeting by email at jcoffin@polkcityia.gov include your name and address for the record. The Mayor will recognize you for five minutes of comment.*

6. **Consent Items**
   a. City Council Meeting Minutes for February 27, 2023
   b. Claims listing March 13, 2023
   c. Receive and file the Parks Commission Meeting Minutes for March 6, 2023
   d. Receive and file the Library Board Meeting Minutes for March 6, 2023
   e. Receive and file the February 2023 Library Director Report
   f. Acknowledge the Library's Inclement Weather/Emergency Policy

g. Resolution 2023-32 Support for Community Project Funding for Connecting the Neal Smith Trail to the High Trestle Trail through Polk City Project.
h. Receive and file the February 2023 Fire Department Report
i. Receive and file the February 2023 Parks & Recreation Department Report
j. Resolution 2023-33 authorizing application for the Staffing for Adequate Fire and Emergency Response (SAFER) Grant through FEMA
k. Receive and file the February 2023 Water Report
l. Acknowledge Resolution 2023-02L hiring Elena Fowle as a Library Page
m. Receive and file the Library Board Special Meeting Minutes for March 9, 2023

7. Business Items

a. City Hall / Community Room Project
   i. Resolution 2023-34 approving Plat of Survey
   ii. Resolution 2023-35 approving Site Plan

b. Second Reading of Ordinance 2023-4000 approving rezoning of property owned by the City of Polk City located at 214 S. 3rd Street and 302 W. Van Dorn Street from C-1 Central Business District to U-1 Utility District

8. Reports & Particulars

Mayor, Council, City Manager, Staff, Boards, and/or Commissions

9. Closed Session under Code of Iowa; Chapter 21 Official Meetings open to Public; section 5 Closed Session; sub paragraph 1.j To discuss the purchase or sale of particular real estate only where premature disclosure could be reasonably expected to increase the price the governmental body would have to pay for that property or reduce the price the governmental body would receive for that property. The minutes and the audio recording of a session closed under this paragraph shall be available for public examination when the transaction discussed is completed

10. (Optional) Take action on closed session item

11. Adjournment

--next meeting date March 27, 2023

City of Polk City, Iowa

City Council Agenda Communication

Date: **March 13, 2023 City Council Meeting**
To: Mayor Steve Karsjen & City Council
From: Chelsea Huisman, City Manager

Subject: **Public Hearing on proposal to enter into an Essential Purpose Loan Agreement**

BACKGROUND: On Monday evening, the City Council will hold a Public Hearing on a proposal to enter into a general obligation loan agreement and to borrow money to fund future essential purpose capital projects. This public hearing and resolution is the 1st step in the borrowing procedure. The City Council will finalize the authority on Monday to enter into the loan agreement. Additional proceedings regarding the loan and finalizing the total exact dollar amount borrowed will occur in the upcoming months. The total amount not to exceed for essential corporate purpose is $1,850,000. This is the maximum amount of money the city plans to borrow for the following projects:

1. Northside Drive Intersection alignment & Trail project- $1,125,000
2. Trail Project (includes 2 trail gaps along Bridge Road)-$275,000
3. Street Repair Project-$250,000
4. Police Capital Equipment Purchase-$200,000

ALTERNATIVES: Do not approve

FINANCIAL CONSIDERATIONS: The financial considerations for entering into the essential purpose loan agreement is not to exceed $1,850,000 for the uses outlined above.

RECOMMENDATION: It is my recommendation that the City Council hold the separate public hearing for Essential Purpose Loan, and will take action and combine the 2 loan agreements together after the 2nd public hearing for an urban renewal loan agreement.

City of Polk City, Iowa

City Council Agenda Communication

Date: **March 13, 2023 City Council Meeting**
To: Mayor Steve Karsjen & City Council
From: Chelsea Huisman, City Manager

Subject: **Public Hearing on proposal to enter into an urban renewal loan agreement & Resolution to enter into agreement and approve a pretax levy for the fiscal year beginning July 1, 2023.**

BACKGROUND: On Monday evening, the City Council will hold a 2nd Public Hearing on a proposal to enter into an urban renewal loan agreement and to borrow money to fund future capital projects. After the public hearing is closed, the City Council will consider a resolution to enter into the loan agreement, combine the loan agreements (essential corporate purpose $1,850,000 and general corporate purpose $1,750,000), and authorize the levy of taxes to repay the loan agreements beginning with the budget year starting July 1, 2023.

As previously noted, additional proceedings regarding the loan and finalizing the total exact dollar amount borrowed will occur in the upcoming months. The total amount not to exceed for this urban renewal loan agreement is $1,750,000. This is the maximum amount of money the city plans to borrow for the following projects:

1. City Hall/Community Center Project-not to exceed $1,750,000

Once the 2 loan agreements are combined by the City Council, the maximum loan agreement will be a not to exceed amount of $3,600,000.

ALTERNATIVES: Do not approve

FINANCIAL CONSIDERATIONS: The financial considerations for entering into the general corporate purpose loan agreement is not to exceed $1,750,000 for the uses outlined above. Upon approval of the resolution, the 2 loan agreements will be combined into 1 agreement, with a not to exceed amount of $3,600,000.

RECOMMENDATION: It is my recommendation that the City Council approve the resolution to enter into an urban renewal loan agreement not to exceed $1,750,000, combine the loan agreements with a not to exceed $3,600,000, and provide for the levy of taxes to pay the loans.

MINUTES TO HOLD HEARINGS ON LOAN AGREEMENTS, COMBINE LOAN AGREEMENTS, AND AUTHORIZE PRELEVY

511493-10

Polk City, Iowa

March 13, 2023

The City Council of the City of Polk City, Iowa, met on March 13, 2023, at 6:00 o'clock p.m., at the City Hall Council Chambers in Polk City, Iowa.

The meeting was called to order by the Mayor, and the roll was called showing the following members of the City Council present and absent:

Present: _____

Absent: _____.

This being the time and place specified for taking action on the proposal to enter into an Essential Purpose Loan Agreement, as defined in the attached resolution, in a principal amount not to exceed $1,850,000, the City Clerk announced that no written objections had been placed on file. Whereupon, the Mayor called for any written or oral objections, and there being none, the Mayor closed the public hearing.

This also being the time and place specified for taking action on the proposal to enter into an Urban Renewal Loan Agreement, as defined in the attached resolution, in a principal amount not to exceed $1,750,000, the City Clerk announced that no petition had been filed asking that the question of entering into the loan agreement be submitted to the registered voters of the City, and that the City Council may proceed with the authorization of the loan agreement. Whereupon, the Mayor called for any written or oral objections, and there being none, the Mayor closed the public hearing.

After due consideration and discussion, Council Member _____ introduced the following resolution and moved its adoption, seconded by Council Member _____. The Mayor put the question upon the adoption of said resolution, and the roll being called, the following Council Members voted:

Ayes: _____

Nays: _____.

Whereupon, the Mayor declared the resolution duly adopted, as hereinafter set out.

• • • • •

At the conclusion of the meeting, and upon motion and vote, the City Council adjourned.

_____
Mayor

Attest:

_____
City Clerk

RESOLUTION NO. 2023-28

Resolution taking additional action on proposals to enter into Loan Agreements, combining Loan Agreements, and providing for the levy of taxes to pay the same

WHEREAS, the City of Polk City (the "City"), in Polk County, State of Iowa, heretofore proposed to enter into a loan agreement (the "Essential Purpose Loan Agreement"), pursuant to the provisions of Section 384.24A of the Code of Iowa, and to borrow money thereunder in a principal amount not to exceed $1,850,000, for the purpose of paying the costs, to that extent, of (a) constructing street, water system, sanitary sewer system, storm water drainage and sidewalk improvements; (b) acquiring and installing street lighting, signage and signalization improvements; and (c) acquiring vehicles and equipment for the municipal police and fire departments, and has published notice of the proposed action and has held a hearing thereon on March 13, 2023; and

WHEREAS, the City also proposed to enter into a loan agreement (the "Urban Renewal Loan Agreement" and, together with the Essential Purpose Loan Agreement, the "Loan Agreements") and to borrow money thereunder in a principal amount not to exceed $1,750,000, pursuant to the provisions of Sections 384.24A and 384.24.3(q) of the Code of Iowa, for the purpose of paying the costs, to that extent, of undertaking the City Hall Project in the Polk City Area II Urban Renewal Area consisting of constructing, furnishing and equipping a new City Hall facility, as further detailed in the urban renewal plan approved by the City Council on March 14, 2022, and in lieu of calling an election upon such proposal, has published notice of the proposed action and has held a hearing thereon, and as of March 13, 2023, no petition had been filed with the City asking that the question of entering into the Urban Renewal Loan Agreement be submitted to the registered voters of the City; and

WHEREAS, pursuant to the provisions of Section 384.28 of the Code of Iowa, the City intends to combine its authority under the Loan Agreements and to enter into a single loan agreement (the "Loan Agreement"); and

WHEREAS, it is anticipated that debt service will become due on the Bonds prior to July 1, 2024, and it is now necessary to make provision for the levy of a debt service property tax in the 2023-2024 fiscal year for the payment of such anticipated principal and interest;

NOW, THEREFORE, It Is Resolved by the City Council of the City of Polk City, Iowa, as follows:

Section 1. The Loan Agreements are hereby combined into the Loan Agreement. The City Council hereby determines to enter into the Loan Agreement in the future and orders that the Bonds be issued at such time, in evidence thereof. The City Council further declares that this resolution constitutes the "additional action" required by Section 384.24A of the Code of Iowa.

Section 2. For the purpose of providing for the levy and collection of a direct annual tax sufficient to pay the principal of and interest on the Bonds as the same become due, there is hereby ordered levied on all the taxable property in the City the following direct annual tax:

For collection in the fiscal year beginning July 1, 2023,
sufficient to produce the net annual sum of $171,250.

provided, however, that at the time the Bonds are issued, the actual tax levy amounts required to pay the principal of and interest on the Bonds in each year shall be determined based upon the interest rate or rates at which the Bonds are issued, and this resolution shall be supplemented by a resolution of the City Council to provide for such actual and necessary tax levy amounts.

Section 3. A certified copy of this resolution shall be filed with the Polk County Auditor and said Auditor is hereby instructed to enter for collection and assess the tax hereby authorized. When annually entering such taxes for collection, the County Auditor shall include the same as a part of the tax levy for Debt Service Fund purposes of the City and when collected, the proceeds of the taxes shall be converted into the Debt Service Fund of the City and set aside therein as a special account to be used solely and only for the payment of the principal of and interest on the Bonds hereby authorized and for no other purpose whatsoever.

Section 4. All resolutions or parts of resolutions in conflict herewith are hereby repealed to the extent of such conflict.

Section 5. This resolution shall be in full force and effect immediately upon its adoption and approval, as provided by law.

Passed and approved March 13, 2023.

_____
Mayor

Attest:

_____
City Clerk

UNITED STATES OF AMERICA
STATE OF IOWA
POLK COUNTY
CITY OF POLK CITY

WATER REVENUE LOAN AND DISBURSEMENT AGREEMENT ANTICIPATION PROJECT NOTE
(IFA INTERIM LOAN AND DISBURSEMENT AGREEMENT)

No. 1 MAXIMUM PRINCIPAL AMOUNT: $407,000

INTEREST RATE	PROJECT NOTE DATE
0%	March 31, 2023

This Water Revenue Loan and Disbursement Agreement Anticipation Project Note (IFA Interim Loan and Disbursement Agreement) (the "Project Note") is issued to the Iowa Finance Authority (the "Lender") by the City of Polk City, Iowa (the "City"), as of the Project Note Date. The Lender shall loan to the City an interim amount not to exceed $407,000.

The City has adopted a resolution (the "Resolution") authorizing and approving this Project Note pursuant to the provisions of Sections 76.13 and 384.24A of the Code of Iowa, 2021, as amended, and providing for the issuance and securing the payment of this Project Note, and reference is made to the Resolution for a more complete statement as to the source of payment of this Project Note and the rights of the owners of this Project Note. This Project Note, together with any additional obligations as may be hereafter issued and outstanding from time to time under the conditions set forth in the Resolution, shall be payable solely and only from the proceeds (the "Loan Proceeds") of an authorized Loan and Disbursement Agreement and the corresponding future issuance of Water Revenue Bonds, a sufficient portion of which have been appropriated to the payment hereof.

The proceeds of this Project Note shall be used for the purposes set forth in the Resolution and shall be made available to the City in the form of one or more periodic disbursements.

This Project Note shall be executed and delivered to the Lender in evidence of the City's obligation to repay the amounts payable hereunder and shall bear interest at 0%. This Project Note shall be payable as to principal in full on the Maturity Date (hereinafter defined) and in the total aggregate amount drawn by the City pursuant to this Project Note, shall be subject to prepayment in whole or in part on any date at a prepayment price equal to the principal amount hereof prepaid, and shall contain such other terms and provisions as provided in the Resolution.

This Project Note is payable as to principal three years from the Project Note Date (the "Maturity Date"). If the City enters into a Loan and Disbursement Agreement with the Lender pursuant to the Iowa Water Pollution Control Works and Drinking Water Facilities Financing Program by the Maturity Date, the Lender may provide for the repayment in full of this Project Note pursuant to the terms of such Loan and Disbursement Agreement and the resolution authorizing the Loan and Disbursement Agreement.

This Project Note is executed pursuant to the provisions of Sections 76.13 and 384.24A of the Code of Iowa and shall be read and construed as conforming to all provisions and requirements of the statute.

In the event of any inconsistency or conflict between the terms and conditions of the Resolution and this Project Note, the parties acknowledge and agree that the terms of this Project Note shall take precedence over any such terms of the Resolution.

And It Is Hereby Certified and Recited that all acts, conditions and things required by the laws and Constitution of the State of Iowa, to exist, to be had, to be done or to be performed precedent to and in the issue of this Project Note were and have been properly existent, had, done and performed in regular and due form and time; and that the issuance of this Project Note does not exceed any constitutional or statutory limitations.

IN TESTIMONY WHEREOF, the City of Polk City, Iowa has caused this Project Note to be executed by its Mayor and attested by its City Clerk all as of the Project Note Date.

CITY OF POLK CITY, IOWA

By: _____
Mayor

Attest:

_____
City Clerk

IN WITNESS WHEREOF, I have hereunto affixed my signature all as of the date first above written.

IOWA FINANCE AUTHORITY

By: _____
Its:

City of Polk City, Iowa

City Council Agenda Communication

Date: **March 13, 2023 City Council Meeting**
To: Mayor Steve Karsjen & City Council
From: Chelsea Huisman, City Manager

Subject: **Public Hearing on proposed action to institute proceedings to enter into a Water Revenue Loan and Disbursement Agreement**

BACKGROUND: On Monday evening, the City Council will hold a Public Hearing on a proposal to enter into a water revenue loan and disbursement agreement in the amount of $407,000. This loan agreement will cover planning, designing, and construction costs related to the water tower construction project at 0% interest for up to 3 years. The proceeds from this loan agreement will provide the city funding for planning and design costs we will incur prior to construction of the water tower. If the city enters into a loan disbursement agreement with the same lender (SRF) by the maturity date, the lender may provide for the repayment in full of this project note pursuant to the terms of a future loan and disbursement agreement.

ALTERNATIVES: Do not approve

FINANCIAL CONSIDERATIONS: The financial considerations for entering into the water revenue loan will not exceed $407,000. This loan agreement will only cover costs associated to planning and design costs related to the water tower project. The City Council will later review and consider a future loan and disbursement agreement for the construction of the water tower.

RECOMMENDATION: It is my recommendation that the City Council authorize the water revenue loan disbursement agreement in the amount of $407,000 for planning and design of the water tower.

(Hearing/Issuance – Water Revenue)

511493-11

Polk City, Iowa

March 13, 2023

The City Council of the City of Polk City, Iowa, met on March 13, 2023, at 6:00 p.m., at the City Hall Council Chambers, in the City. The meeting was called to order by the Mayor, and the roll was called showing the following Council Members present and absent:

Present: _____

Absent: _____.

This being the time and place specified for holding a public hearing and taking action on the proposal to enter into a Water Revenue Loan and Disbursement Agreement, the City Clerk announced that no written objections had been placed on file. Whereupon, the Mayor called for any written or oral objections, and there being none, the Mayor declared the public hearing closed.

After due consideration and discussion, Council Member _____ introduced the following resolution and moved its adoption, seconded by Council Member _____. The Mayor put the question upon the adoption of said resolution, and the roll being called, the following Council Members voted:

Ayes: _____

Nays: _____.

Whereupon, the Mayor declared the resolution duly adopted as hereinafter set out.

RESOLUTION NO. 2023-29

Resolution taking additional action with respect to a Water Revenue Loan and Disbursement Agreement and authorizing, approving and securing the payment of a $407,000 Water Revenue Loan and Disbursement Agreement Anticipation Project Note (IFA Interim Loan and Disbursement Agreement)

WHEREAS, the City of Polk City (the "City"), in Polk County, State of Iowa, did heretofore establish a Municipal Waterworks Utility System (the "Utility") in and for the City which has continuously supplied water service in and to the City and its inhabitants since its establishment; and

WHEREAS, the management and control of the Utility are vested in the City Council (the "Council"), and no board of trustees exists for this purpose; and

WHEREAS, the City has heretofore proposed to borrow money and enter into a Water Revenue Loan and Disbursement Agreement (the "Loan and Disbursement Agreement") with the Iowa Finance Authority (the "Lender") and to issue in accordance therewith Water Revenue Bonds (the "Bonds") in a principal amount not to exceed $407,000 to provide funds to pay the costs, to that extent, of planning, designing, and constructing improvements and extensions to the Utility (the "Project"), and has published notice of the proposed action and has held a hearing thereon on March 13, 2023; and

WHEREAS, it is necessary at this time to authorize and approve the issuance of a $407,000 Water Revenue Loan and Disbursement Agreement Anticipation Project Note (IFA Interim Loan and Disbursement Agreement) (the "Project Note") pursuant to the provisions of Section 76.13 of the Code of Iowa in anticipation of the receipt of and payable from the proceeds of the Loan and Disbursement Agreement (the "Loan Proceeds") in order to pay authorized costs in connection with planning and designing the Project;

NOW, THEREFORE, Be It Resolved by the City Council of the City of Polk City, Iowa, as follows:

Section 1. The City Council hereby covenants for the benefit of the Lender and all who may at any time be the holder of the Project Note to enter into the Loan and Disbursement Agreement and to issue and deliver the Bonds prior to the Maturity Date, as defined in the Project Note, and declares that this resolution constitutes the "additional action" required by Section 384.24A of the Code of Iowa. The Bonds are hereby ordered to be issued at such time as the City enters into the Loan and Disbursement Agreement.

Section 2. The Project Note in the principal amount of $407,000 is hereby authorized to be issued to the Lender. The Project Note shall be dated as of the date of closing, shall mature on the Maturity Date as defined in the Project Note, and shall bear interest at the rate of 0% per annum.

The Project Note shall be executed on behalf of the City with the official manual or facsimile signature of the Mayor and attested with the official manual or facsimile signature of the City Clerk and shall be a fully registered instrument without interest coupons. In case any officer whose signature or the facsimile of whose signature appears on the Project Note shall cease to be such officer before the delivery of the Project Note, such signature or such facsimile signature shall nevertheless be valid and sufficient for all purposes, the same as if such officer had remained in office until delivery.

The City Clerk is hereby designated as the Registrar and Paying Agent for the Project Note and may be hereinafter referred to as the "Registrar" or the "Paying Agent."

The City reserves the right to prepay principal of the Project Note in whole or in part on any date prior to the Maturity Date, as defined in the Project Note, at a prepayment price equal to the principal amount thereof prepaid.

The Project Note shall be fully registered as to both principal and interest in the name of the owner in the records of the City kept for such purpose, after which no transfer shall be valid unless made on said records by the City Clerk, and then only upon a written instrument of transfer satisfactory to the City, duly executed by the registered owner or the duly authorized attorney for such registered owner.

The City shall maintain as confidential the record of identity of owners of the Project Note, as provided by Section 22.7 of the Code of Iowa.

Section 3. The Project Note shall be in substantially the following form:

(Form of Project Note)

UNITED STATES OF AMERICA
STATE OF IOWA
POLK COUNTY
CITY OF POLK CITY

WATER REVENUE LOAN AND DISBURSEMENT AGREEMENT ANTICIPATION PROJECT NOTE
(IFA INTERIM LOAN AND DISBURSEMENT AGREEMENT)

No. 1 MAXIMUM PRINCIPAL AMOUNT: $407,000

INTEREST RATE	PROJECT NOTE DATE
0%	March 31, 2023

This Water Revenue Loan and Disbursement Agreement Anticipation Project Note (IFA Interim Loan and Disbursement Agreement) (the "Project Note") is issued to the Iowa Finance Authority (the "Lender") by the City of Polk City, Iowa (the "City"), as of the Project Note Date. The Lender shall loan to the City an interim amount not to exceed $407,000.

The City has adopted a resolution (the "Resolution") authorizing and approving this Project Note pursuant to the provisions of Sections 76.13 and 384.24A of the Code of Iowa, 2021 as amended, and providing for the issuance and securing the payment of this Project Note, and reference is made to the Resolution for a more complete statement as to the source of payment of this Project Note and the rights of the owners of this Project Note. This Project Note, together with any additional obligations as may be hereafter issued and outstanding from time to time under the conditions set forth in the Resolution, shall be payable solely and only from the proceeds (the "Loan Proceeds") of an authorized Loan and Disbursement Agreement and the corresponding future issuance of Water Revenue Bonds, a sufficient portion of which have been appropriated to the payment hereof.

The proceeds of this Project Note shall be used for the purposes set forth in the Resolution and shall be made available to the City in the form of one or more periodic disbursements.

This Project Note shall be executed and delivered to the Lender in evidence of the City's obligation to repay the amounts payable hereunder and shall bear interest at 0%. This Project Note shall be payable as to principal in full on the Maturity Date (hereinafter defined) and in the total aggregate amount drawn by the City pursuant to this Project Note, shall be subject to prepayment in whole or in part on any date at a prepayment price equal to the principal amount hereof prepaid, and shall contain such other terms and provisions as provided in the Resolution.

This Project Note is payable as to principal three years from the Project Note Date (the "Maturity Date"). If the City enters into a Loan and Disbursement Agreement with the Lender pursuant to the Iowa Water Pollution Control Works and Drinking Water Facilities Financing Program by the Maturity Date, the Lender may provide for the repayment in full of this Project Note pursuant to the terms of such Loan and Disbursement Agreement and the resolution authorizing the Loan and Disbursement Agreement.

This Project Note is executed pursuant to the provisions of Sections 76.13 and 384.24A of the Code of Iowa and shall be read and construed as conforming to all provisions and requirements of the statute.

In the event of any inconsistency or conflict between the terms and conditions of the Resolution and this Project Note, the parties acknowledge and agree that the terms of this Project Note shall take precedence over any such terms of the Resolution.

And It Is Hereby Certified and Recited that all acts, conditions and things required by the laws and Constitution of the State of Iowa, to exist, to be had, to be done or to be performed precedent to and in the issue of this Project Note were and have been properly existent, had, done and performed in regular and due form and time; and that the issuance of this Project Note does not exceed any constitutional or statutory limitations.

IN TESTIMONY WHEREOF, the City of Polk City, Iowa has caused this Project Note to be executed by its Mayor and attested by its City Clerk all as of the Project Note Date.

CITY OF POLK CITY, IOWA

By: DO NOT SIGN
Mayor

Attest:

DO NOT SIGN
City Clerk

IN WITNESS WHEREOF, I have hereunto affixed my signature all as of the date first above written.

IOWA FINANCE AUTHORITY

By: _____
Its:

Section 4. The Project Note shall be executed as herein provided as soon after the adoption of this resolution as may be possible and thereupon shall be delivered to the Registrar for registration and delivery to the Lender, upon receipt of the Project Note proceeds.

Section 5. The Loan Proceeds are hereby appropriated to the payment of the Project Note and may also be appropriated to the payment of other obligations issued to pay costs of the Project, but only to the extent that full provision has been made for the payment of principal of the Project Note.

At its sole discretion, the City Council may appropriate to the payment of the Project Note proceeds to be received from state or federal grants and/or income or revenues from sources to be received and expended for the Project during the period of Project construction.

The Project Note is a limited obligation of the City payable solely and only from the Loan Proceeds and shall not constitute a general obligation of the City, nor shall it be payable in any manner by taxation, and under no circumstances shall the City be in any manner liable by reason of the failure of the Loan Proceeds to be sufficient for the payment in whole or in part of the Project Note.

Section 6. Upon a breach or default of a term of the Project Note or any Parity Obligations and this resolution, a proceeding may be brought in law or in equity by suit, action or mandamus to enforce and compel performance of the duties required under the terms of this resolution and Section 76.13 of the Code of Iowa.

Section 7. The City reserves the right to issue additional obligations (the "Parity Obligations") payable from the Loan Proceeds, and ranking on a parity with, the Project Note. The Project Note or any Parity Obligations shall not be entitled to priority or preference one over the other in the application of the Loan Proceeds regardless of the time or times of the issuance of such Project Note or Parity Obligations, it being the intention of the City that there shall be no priority among the Project Note or Parity Obligations, regardless of the fact that they may have been actually issued and delivered at different times.

Section 8. The provisions of this resolution shall constitute a contract between the City and the owners of the Project Note and Parity Obligations as may from time to time be outstanding, and after the issuance of the Project Note, no change, variation or alteration of any kind of the provisions of this resolution shall be made without prior consent of the Lender which will adversely affect the owners of the Project Note or Parity Obligations until the Project Note and Parity Obligations and the interest thereon shall have been paid in full.

Section 9. If any section, paragraph, clause or provision of this resolution shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this resolution.

Section 10. All resolutions and orders or parts thereof in conflict with the provisions of this resolution are, to the extent of such conflict, hereby repealed.

Section 11. This resolution shall be in full force and effect immediately upon its adoption and approval, as provided by law.

Passed and approved March 13, 2023.

_____
Mayor

Attest:

_____
City Clerk

• • • •

On motion and vote, the meeting adjourned.

_____
Mayor

Attest:

_____
City Clerk

March 13, 2023

Honorable Mayor and City Council
City of Polk City
112 S. 3rd Street
Polk City, Iowa

RE: REPORT OF BIDS AND RECOMMENDATION OF AWARD OF CONTRACT
2023 STREET REPAIRS PROJECT
S&A PROJECT NO.: 123.0188.01

Dear Honorable Mayor and City Council:

The bid letting for the above reference project was held by City Staff and Snyder & Associates, Inc. on Wednesday, March 8, 2023, and produced two bidders. The base bids ranged from the low bid of $83,780.00 to the high bid of $153,768.00. The project included three additive bid alternates. Bid Alternate A ranged from $21,480.00 to $30,620.00. Bid Alternate B ranged from $12,183.00 to $13,302.00. Bid Alternate C ranged from $11,338.00 to $13,284.00. The low bidder was Brothers Concrete of Des Moines, Iowa with a total bid, including base bid and all additive bid alternates, of $128,781.00. The low bid is approximately $73,000 under the engineer's estimate of $201,900.00 for construction without contingencies.

Brothers Concrete has worked successfully in the Des Moines area with Snyder & Associates, Inc. in the past, including the completion of the Rock Creek Greenway Trail in Ankeny.

It is our recommendation that the City of Polk City accept the apparent low bid, include all three additive bid alternates.

We will be in attendance at the March 13, 2023 council meeting. Please feel free to contact me at 515-964-2020 or tthornburgh@snyder-associates.com if you have any questions.

Sincerely,

SNYDER & ASSOCIATES, INC.

Travis D. Thornburgh, P.E.
Project Engineer

Enclosures (Bid Tab)

CC: Mike Schulte, Polk City Public Works Director
Chelsea Huisman, City Manager
Travis Thornburgh, Snyder & Associates, Inc.
Kathleen Connor, Snyder & Associates, Inc.

TABULATION OF BIDS
2023 Street Repairs Project
City of Polk City
Project No.: 123.0188.01
Bid Date/Time: March 8, 2023 at 10:00 AM

						1		2	
				ENGINEER'S ESTIMATE		BROTHERS CONCRETE DES MOINES, IA		MPS ENGINEER'S PC DBA KINGSTON SERVICES, PC DES MOINES, IA	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
	EARTHWORK								
2.1	Below Grade Excavation (Core Out)	CY	68	$ 75.00	$ 5,100.00	$ 25.00	$ 1,700.00	$ 54.00	$ 3,672.00
2.2	Subgrade Treatment, Geogrid, Triangular	SY	205	$ 10.00	$ 2,050.00	$ 6.00	$ 1,230.00	$ 4.00	$ 820.00
2.3	Special Backfill	TON	6	$ 65.00	$ 390.00	$ 95.00	$ 570.00	$ 98.00	$ 588.00
	STRUCTURES FOR SANITARY AND STORM								
6.1	Remove Intake (Top-Only)	EA	5	$ 2,000.00	$ 10,000.00	$ 1,200.00	$ 6,000.00	$ 1,250.00	$ 6,250.00
6.2	Remove Intake	EA	2	$ 4,000.00	$ 8,000.00	$ 1,200.00	$ 2,400.00	$ 1,500.00	$ 3,000.00
6.3	Intake, SW-501 (Top-Only)	EA	2	$ 3,000.00	$ 6,000.00	$ 1,500.00	$ 3,000.00	$ 3,200.00	$ 6,400.00
6.4	Intake, SW-503 (Top-Only)	EA	1	$ 5,000.00	$ 5,000.00	$ 1,800.00	$ 1,800.00	$ 4,500.00	$ 4,500.00
6.5	Intake, SW-505 (Top-Only)	EA	2	$ 5,000.00	$ 10,000.00	$ 1,800.00	$ 3,600.00	$ 5,000.00	$ 10,000.00
6.6	Intake, SW-501, Cast In Place	EA	1	$ 7,500.00	$ 7,500.00	$ 5,500.00	$ 5,500.00	$ 6,500.00	$ 6,500.00
6.7	Intake, SW-503, Cast in Place	EA	1	$ 10,000.00	$ 10,000.00	$ 10,200.00	$ 10,200.00	$ 9,200.00	$ 9,200.00
	STREETS AND RELATED WORK								
7.1	Full Depth Patches	SY	440	$ 120.00	$ 52,800.00	$ 83.00	$ 36,520.00	$ 136.00	$ 59,840.00
7.2	Crack and Joint Cleaning and Filling, Hot Pour	LF	100	$ 5.00	$ 500.00	$ 5.00	$ 500.00	$ 5.00	$ 500.00
7.3	Removal of Paved Driveway	SY	11	$ 25.00	$ 275.00	$ 65.00	$ 715.00	$ 26.00	$ 286.00
7.4	Driveway, Paved, PCC, 6"	SY	11	$ 125.00	$ 1,375.00	$ 95.00	$ 1,045.00	$ 92.00	$ 1,012.00
	TRAFFIC CONTROL								
8.1	Temporary Traffic Control	LS	1	$ 8,000.00	$ 8,000.00	$ 3,500.00	$ 3,500.00	$ 9,200.00	$ 9,200.00
	MISCELLANEOUS								
11.1	Mobilization	LS	1	$ 14,000.00	$ 14,000.00	$ 5,500.00	$ 5,500.00	$ 32,000.00	$ 32,000.00
BID ALTERNATE A									
	EARTHWORK								
2.1A	Below Grade Excavation (Core Out)	CY	30	$ 75.00	$ 2,250.00	$ 55.00	$ 1,650.00	$ 54.00	$ 1,620.00
2.2A	Subgrade Treatment, Geogrid, Triangular	SY	90	$ 10.00	$ 900.00	$ 6.00	$ 540.00	$ 8.00	$ 720.00
	STREETS AND RELATED WORK								
7.1A	Full Depth Patches	SY	180	$ 120.00	$ 21,600.00	$ 83.00	$ 14,940.00	$ 146.00	$ 26,280.00
	TRAFFIC CONTROL								
8.1A	Temporary Traffic Control	LS	1	$ 1,000.00	$ 1,000.00	$ 850.00	$ 850.00	$ 750.00	$ 750.00
	MISCELLANEOUS								
11.1A	Mobilization	LS	1	$ 2,500.00	$ 2,500.00	$ 3,500.00	$ 3,500.00	$ 1,250.00	$ 1,250.00
BID ALTERNATE B									
	EARTHWORK								
2.1B	Below Grade Excavation (Core Out)	CY	12	$ 75.00	$ 900.00	$ 55.00	$ 660.00	$ 54.00	$ 648.00
2.2B	Subgrade Treatment, Geogrid, Triangular	SY	35	$ 10.00	$ 350.00	$ 6.00	$ 210.00	$ 12.00	$ 420.00
	STREETS AND RELATED WORK								
7.1B	Full Depth Patches	SY	69	$ 120.00	$ 8,280.00	$ 87.00	$ 6,003.00	$ 146.00	$ 10,074.00
7.2B	Crack and Joint Cleaning and Filling, Hot Pour	LF	32	$ 5.00	$ 160.00	$ 30.00	$ 960.00	$ 5.00	$ 160.00
	TRAFFIC CONTROL								
8.1B	Temporary Traffic Control	LS	1	$ 1,000.00	$ 1,000.00	$ 850.00	$ 850.00	$ 750.00	$ 750.00
	MISCELLANEOUS								
11.1B	Mobilization	LS	1	$ 1,000.00	$ 1,000.00	$ 3,500.00	$ 3,500.00	$ 1,250.00	$ 1,250.00

TABULATION OF BIDS
2023 Street Repairs Project
City of Polk City
Project No.: 123.0188.01
Bid Date/Time: March 8, 2023 at 10:00 AM

						1		2	
				ENGINEER'S ESTIMATE		BROTHERS CONCRETE DES MOINES, IA		MPS ENGINEER'S PC DBA KINGSTON SERVICES, PC DES MOINES, IA	
ITEM	**DESCRIPTION**	**UNIT**	**QUANTITY**	**UNIT PRICE**	**TOTAL PRICE**	**UNIT PRICE**	**TOTAL PRICE**	**UNIT PRICE**	**TOTAL PRICE**
BID ALTERNATE C									
	EARTHWORK								
2.1C	Below Grade Excavation (Core Out)	CY	11	$ 75.00	$ 825.00	$ 55.00	$ 605.00	$ 54.00	$ 594.00
2.2C	Subgrade Treatment, Geogrid, Triangular	SY	34	$ 10.00	$ 340.00	$ 6.00	$ 204.00	$ 12.00	$ 408.00
	STREETS AND RELATED WORK								
7.1C	Full Depth Patches	SY	67	$ 120.00	$ 8,040.00	$ 87.00	$ 5,829.00	$ 146.00	$ 9,782.00
	TRAFFIC CONTROL								
8.1C	Temporary Traffic Control	LS	1	$ 1,000.00	$ 1,000.00	$ 1,200.00	$ 1,200.00	$ 1,250.00	$ 1,250.00
	MISCELLANEOUS								
11.1C	Mobilization	LS	1	$ 1,000.00	$ 1,000.00	$ 3,500.00	$ 3,500.00	$ 1,250.00	$ 1,250.00
			BASE BID:		$ 140,990.00		$ 83,780.00		$ 153,768.00
			BID ALTERNATE A:		$ 28,250.00		$ 21,480.00		$ 30,620.00
			BID ALTERNATE B:		$ 11,690.00		$ 12,183.00		$ 13,302.00
			BID ALTERNATE C:		$ 11,205.00		$ 11,338.00		$ 13,284.00
			BID SECURITY:				10%		10%

Notes

The following documents must be submitted as printed. No alterations, additions, or deletions are allowed. If the Bidder notes a requirement in the contract documents that the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify the Engineer in writing. The Engineer will issue any necessary interpretation by an addendum.

PROPOSAL

PROPOSAL: PART A – SCOPE

The City of Polk City Iowa, hereinafter called the "Jurisdiction," has need of a qualified contractor to complete the work comprising the below referenced improvement. The undersigned Bidder hereby proposes to complete the work comprising the below referenced improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the City Clerk, at the prices hereinafter provided in Part C of the Proposal, for the following described improvements:

PROJECT DESCRIPTION:

The Project includes the full depth PCC replacement of public streets, PCC driveway approach replacement, and PCC crack sealing at various locations in Polk City, Iowa. The Project consists of approximately 440 SY of PCC Full Depth Repair, modifications to seven storm sewer structures, and associated work.

PROPOSAL: PART B – ACKNOWLEDGMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued, and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

ADDENDUM NUMBER _____ ADDENDUM NUMBER _____

ADDENDUM NUMBER _____ ADDENDUM NUMBER _____

and certifies that said addenda were utilized in the preparation of this bid.

PROPOSAL: PART C – BID ITEMS, QUANTITIES, AND PRICES

UNIT BID PRICE CONTRACTS: The Bidder must provide the Unit Bid Price, the Total Bid Price, any Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices are approximate only, but are considered sufficiently adequate for the purpose of comparing bids. The Total Construction Cost plus any alternates selected by the Jurisdiction, shall be used only for comparison of bids. The Total Construction Cost, including any Add-Alternates, shall be used for determining the sufficiency of the bid security.

BASE BID CONTRACTS: The Bidder must provide any Bid Prices, any Alternate Prices, and the Total of the Base Bid plus any Add-Alternates on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices. The Total of the Base bid plus any Alternates selected by the Jurisdiction shall be used only for comparison of bids. The Total of the Base Bid plus any Add-Alternates shall be used for determining the sufficiency of the bid security.

PROPOSAL: PART D – GENERAL

The Bidder hereby acknowledges that the Jurisdiction, in advertising for public bids for this project, reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsible, responsive bidder; and
2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsible, responsive bidder to be based on comparison of the total bid plus any selected alternates; and
3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Enter into a contract, if this proposal is selected, in the form approved by the Jurisdiction, provide proof of registration with the Iowa Division of Labor in accordance with Chapter 91C of the Iowa Code, and furnish a performance, maintenance, and payment bond; and
2. Forfeit bid security, not as a penalty but as liquidated damages, upon failure to enter into such contract and/or to furnish said bond; and
3. Commence the work on this project on or before a date to be specified in a written notice to proceed by the Jurisdiction, and to fully complete the project and to pay liquidated damages for noncompliance with said completion provisions at the rate of Five Hundred dollars ($500.00) for each calendar day thereafter that the work remains incomplete.

PROPOSAL: PART E – NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with the Jurisdiction; and

2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and

3. That no part of the bid price received by the Bidder was or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and

4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to submit a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other bidder, and that all statements in this proposal are true; and

5. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F – ADDITIONAL REQUIREMENTS

The Bidder hereby agrees to comply with the additional requirements listed below that are included in this proposal and identified as proposal attachments:

ITEM NO.	DESCRIPTION OF ATTACHMENT
1.	Part C- Bid Schedule
2.	
3.	
4.	
5.	
6.	

PROSECUTION AND PROGRESS OF THE WORK

1. The Work is located in the City of Polk City. Work on Sundays or legal holidays require approval of the City.
2. Time is of the essence in this project. The Contractor will be required to work a minimum of five (5) days per week, weather permitting.
3. Allowable working hours are between 7:00 am and 7:00 pm.

PROPOSAL: PART G – IDENTITY OF BIDDER

The Bidder shall indicate whether the bid is submitted by a/an:

- [ ] Individual, Sole Proprietorship
- [ ] Partnership
- [x] Corporation
- [ ] Limited Liability Company
- [ ] Joint-venture: all parties must join-in and execute all documents
- [ ] Other

The Bidder shall enter its Public Registration Number C 1 1 2 8 - 6 3 issued By the Iowa Commissioner of Labor Pursuant Section 91C.5 of the Iowa Code.

Failure to provide said Registration Number shall result in the bid being read under advisement. A contract will not be executed until the Contractor is registered.

Brothers Concrete
Bidder

Signature

By Jose Valero
Name (Print/Type)

President
Title

4000 Colfax Ave
Street Address

Des Moines, IA, 50317
City, State, Zip Code

515-554-5302
Telephone Number

Type or print the name and title of the company's owner, president, CEO, etc. if a different person than entered above

Name

Title

NOTE: The signature on this proposal must be an original signature in ink; copies, facsimiles, or electronic signatures will not be accepted.

PROPOSAL ATTACHMENT: PART C **Project Name: 2023 Street Repairs Project**

PROPOSAL

PROPOSAL ATTACHMENT: PART C – BID ITEMS, QUANTITIES, AND PRICES

This is a UNIT BID PRICE CONTRACT. The bidder must provide the Bid Price(s), any Alternate Price(s), and the Total of the Base Bid plus any Add-Alternates in this Proposal Attachment: Part C – Bid Items, Quantities, and Prices the total of the base bid plus any alternates selected by the Jurisdiction shall be used only for comparison of bids. The total of the Base Bid plus any Add-Alternates shall be used for determining the sufficiency of the bid security.

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1	Below Grade Excavation (Core Out)	CY	68	$ 25	$ 1,700
2.2	Subgrade Treatment, Geogrid, Triangular	SY	205	$ 6	$ 1,230
2.3	Special Backfill	TON	6	$ 95	$ 570
6	**STRUCTURES FOR SANITARY AND STORM**				
6.1	Remove Intake (Top-Only)	EA	5	$ 1,200	$ 6,000
6.2	Remove Intake	EA	2	$ 1,200	$ 2,400
6.3	Intake, SW-501, Top-Only	EA	2	1,500	$ 3,000
6.4	Intake, SW-503, Top-Only	EA	1	$ 1,800	$ 1,800
6.5	Intake, SW-505, Top-Only	EA	2	$ 1,800	$ 3,600
6.6	Intake, SW-501, Cast In Place	EA	1	$ 5,500	$ 5,500
6.7	Intake, SW-503, Cast In Place	EA	1	$ 10,200	$ 10,200
7	**STREETS AND RELATED WORK**				
7.1	Full Depth Patches	SY	440	$ 83	$ 36,520
7.2	Crack and Joint Cleaning and Filling, Hot Pour	LF	100	$ 5	$ 500
7.3	Removal of Paved Driveway	SY	11	$ 65	$ 1045
7.4	Driveway, Paved, PCC, 6"	SY	11	$ 95	$ 1045
8	**TRAFFIC CONTROL**				
8.1	Temporary Traffic Control	LS	1	$ 3,500	$ 3,500
11	**GENERAL PROVISIONS**				
11.1	Mobilization	LS	1	$ 5,500	$ 5,500

TOTAL CONSTRUCTION COST BASE BID $ 83,780

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1A	Below Grade Excavation (Core Out)	CY	30	$ 55	$ 1,650
2.2A	Subgrade Treatment, Geogrid, Triangular	SY	90	$ 6	$ 540
7	**STREETS AND RELATED WORK**				
7.1A	Full Depth Patches	SY	180	$ 83	$ 14,940
8	**TRAFFIC CONTROL**				
8.1A	Temporary Traffic Control	LS	1	$ 850	$ 850
11	**GENERAL PROVISIONS**				
11.1A	Mobilization	LS	1	$ 3,500	$ 3,500

TOTAL CONSTRUCTION COST BID ALTERNATE A $ 21,480

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1B	Below Grade Excavation (Core Out)	CY	12	$ 55	$ 660
2.2B	Subgrade Treatment, Geogrid, Triangular	SY	35	$ 6	$ 210
7	**STREETS AND RELATED WORK**				
7.1B	Full Depth Patches	SY	69	$ 87	$ 6,003
7.2B	Crack and Joint Cleaning and Filling, Hot Pour	LF	32	$ 30	$ 960
8	**TRAFFIC CONTROL**				
8.1B	Temporary Traffic Control	LS	1	$ 850	$ 850
11	**GENERAL PROVISIONS**				
11.1B	Mobilization	LS	1	$ 3,500	$ 3,500

TOTAL CONSTRUCTION COST BID ALTERNATE B $ 12,183

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1C	Below Grade Excavation (Core Out)	CY	11	$ 55	$ 605
2.2C	Subgrade Treatment, Geogrid, Triangular	SY	34	$ 6	$ 204
7	**STREETS AND RELATED WORK**				
7.1C	Full Depth Patches	SY	67	$ 87	$ 5,829
8	**TRAFFIC CONTROL**				
8.1C	Temporary Traffic Control	LS	1	$ 1,200	$ 1,200
11	**GENERAL PROVISIONS**				
11.1C	Mobilization	LS	1	$ 3,500	$ 3,500

TOTAL CONSTRUCTION COST BID ALTERNATE C $ 11,338

Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

☐ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.

☐ Yes ☐ No My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.

☐ Yes ☐ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.

☐ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.

☒ Yes ☐ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa Secretary of State, has filed its most recent biennial report with the Secretary of State, and has neither received a certificate of withdrawal from the Secretary of state nor had its authority revoked.

☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.

☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.

☐ Yes ☐ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.

☐ Yes ☐ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa Secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.

☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.

☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

All bidders must submit the following completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156.

Bidder Status Form

To be completed by all bidders — Part A

Please answer "Yes" or "No" for each of the following:

☒ Yes ☐ No My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).

☒ Yes ☐ No My company has an office to transact business in Iowa.

☒ Yes ☐ No My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.

☒ Yes ☐ No My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.

☒ Yes ☐ No My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered "No" to one or more questions above, your company is a non-resident bidder. Please complete Parts C and D of this form.

To be completed by resident bidders — Part B

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: 05/20/2019 to Present Address: 4000 Colfax Ave
(mm/dd/yyyy) City, State, Zip: Des Moines, IA, 50317

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

You may attach additional sheet(s) if needed.

To be completed by non-resident bidders — Part C

1. Name of home state or foreign country reported to the Iowa Secretary of State:

_____

2. Does your company's home state or foreign country offer preferences to bidders who are residents? ☐ Yes ☐ No

3. If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

_____

_____

You may attach additional sheet(s) if needed.

To be completed by all bidders — Part D

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Firm Name: Brothers Concrete

Signature: [signature] Date: 3/7/2023

BID BOND

KNOW ALL BY THESE PRESENTS:

That we, Brothers Cleaning Corporation dba Brothers Concrete, as Principal, and Great Midwest Insurance Corporation, as Surety, are held and firmly bound unto City of Polk City, Iowa, as Obligee, (hereinafter referred to as "the Jurisdiction"), in the penal sum of Ten Percent (10%) of the Total Bid Amount dollars ($_____), or 10% percent of the amount bid in lawful money of the United States, for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into a contract in writing, for the following described improvements;

2023 STREET REPAIRS PROJECT

The Project includes the full depth PCC replacement of public streets, PCC driveway approach replacement, and PCC crack sealing at various locations in Polk City, Iowa. The Project consists of approximately 440 SY of PCC Full Depth Repair, modifications to seven storm sewer structures, and associated work.

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Polk County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against Surety for any amount guaranteed hereunder whether action is brought against Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this 8th day of March, 20 23.

SURETY:	PRINCIPAL:
Great Midwest Insurance Corporation	Brothers Cleaning Corporation dba Brothers Concrete
Surety Company	Bidder
By	By
Signature Attorney-in-Fact/Officer	Signature
Zach Matter	Josecito Valero A.
Printed Name of Attorney-in-Fact/Officer	Printed Name
Zip Bonds, LLC	president
Company Name	Title
3737 Woodland Ave. Suite 505	4000 Colfax Avenue
Company Address	Address
West Des Moines, IA 50266	Des Moines, Iowa 50317
City, State, Zip Code	City, State, Zip Code
888-435-4191	515-447-2544
Company Telephone Number	Telephone Number

NOTE: All signatures on this bid bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted. This bond must be sealed with the Surety's raised, embossing seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal.

POWER OF ATTORNEY

Great Midwest Insurance Company

KNOW ALL MEN BY THESE PRESENTS, that **GREAT MIDWEST INSURANCE COMPANY**, a Texas Corporation, with its principal office in Houston, TX, does hereby constitute and appoint:

Zach Matter, Zach Mefferd, Tina Bockholt, Ryan Swalve, Havilah Watson

its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature of a bond.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of **GREAT MIDWEST INSURANCE COMPANY**, on the 1st day of October, 2018 as follows:

Resolved, that the President, or any officer, be and hereby is, authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed Ten Million dollars ($10,000,000.00), which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed in the Company's sole discretion and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary, and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond of undertaking to which it is attached, continue to be valid and binding on the Company.

IN WITNESS THEREOF, **GREAT MIDWEST INSURANCE COMPANY**, has caused this instrument to be signed by its President, and its Corporate Seal to be affixed this 11th day of February, 2021.

GREAT MIDWEST INSURANCE COMPANY
CORPORATE SEAL
TEXAS CORPORATION

GREAT MIDWEST INSURANCE COMPANY

BY Mark W. Haushill

Mark W. Haushill
President

ACKNOWLEDGEMENT

On this 11th day of February, 2021, before me, personally came Mark W. Haushill to me known, who being duly sworn, did depose and say that he is the President of **GREAT MIDWEST INSURANCE COMPANY**, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.

NOTARY PUBLIC STATE OF TEXAS
CHRISTINA BISHOP
Notary Public, State of Texas
Comm. Expires 04-14-2025
Notary ID 131090488

BY

Christina Bishop
Notary Public

CERTIFICATE

I, the undersigned, Secretary of **GREAT MIDWEST INSURANCE COMPANY**, A Texas Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Houston, TX this 6 Day of March, 2023.

GREAT MIDWEST INSURANCE COMPANY
CORPORATE SEAL
TEXAS CORPORATION

BY

Leslie K. Shaunty
Secretary

"WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files and application for insurance of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

BID BOND

KNOW ALL BY THESE PRESENTS:

That we, Brothers Cleaning Corporation dba Brothers Concrete, as Principal, and Great Midwest Insurance Corporation, as Surety, are held and firmly bound unto City of Polk City, Iowa, as Obligee, (hereinafter referred to as "the Jurisdiction"), in the penal sum of Ten Percent (10%) of the Total Bid Amount dollars ($_____), or 10% percent of the amount bid in lawful money of the United States, for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into a contract in writing, for the following described improvements;

2023 STREET REPAIRS PROJECT

The Project includes the full depth PCC replacement of public streets, PCC driveway approach replacement, and PCC crack sealing at various locations in Polk City, Iowa. The Project consists of approximately 440 SY of PCC Full Depth Repair, modifications to seven storm sewer structures, and associated work.

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Polk County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against Surety for any amount guaranteed hereunder whether action is brought against Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this 8th day of March, 20 23.

SURETY:	PRINCIPAL:
Great Midwest Insurance Corporation	Brothers Cleaning Corporation dba Brothers Concrete
Surety Company	Bidder
By	By
Signature Attorney-in-Fact/Officer	Signature
Zach Matter	Josecito Valero A
Printed Name of Attorney-in-Fact/Officer	Printed Name
Zip Bonds, LLC	president
Company Name	Title
3737 Woodland Ave. Suite 505	4000 Colfax Avenue
Company Address	Address
West Des Moines, IA 50266	Des Moines, Iowa 50317
City, State, Zip Code	City, State, Zip Code
888-435-4191	515-447-2544
Company Telephone Number	Telephone Number

NOTE: All signatures on this bid bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted. This bond must be sealed with the Surety's raised, embossing seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal.

POWER OF ATTORNEY

Great Midwest Insurance Company

KNOW ALL MEN BY THESE PRESENTS, that **GREAT MIDWEST INSURANCE COMPANY**, a Texas Corporation, with its principal office in Houston, TX, does hereby constitute and appoint:

Zach Matter, Zach Mefferd, Tina Bockholt, Ryan Swalve, Havilah Watson

its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature of a bond.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of **GREAT MIDWEST INSURANCE COMPANY**, on the 1st day of October, 2018 as follows:

Resolved, that the President, or any officer, be and hereby is, authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed Ten Million dollars ($10,000,000.00), which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed in the Company's sole discretion and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary, and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond of undertaking to which it is attached, continue to be valid and binding on the Company.

IN WITNESS THEREOF, **GREAT MIDWEST INSURANCE COMPANY**, has caused this instrument to be signed by its President, and its Corporate Seal to be affixed this 11th day of February, 2021.

GREAT MIDWEST INSURANCE COMPANY
CORPORATE SEAL
TEXAS CORPORATION

GREAT MIDWEST INSURANCE COMPANY

BY Mark W. Haushill

Mark W. Haushill
President

ACKNOWLEDGEMENT

On this 11th day of February, 2021, before me, personally came Mark W. Haushill to me known, who being duly sworn, did depose and say that he is the President of **GREAT MIDWEST INSURANCE COMPANY**, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.

NOTARY PUBLIC STATE OF TEXAS
CHRISTINA BISHOP
Notary Public, State of Texas
Comm. Expires 04-14-2026
Notary ID 131090488

BY

Christina Bishop
Notary Public

CERTIFICATE

I, the undersigned, Secretary of **GREAT MIDWEST INSURANCE COMPANY**, A Texas Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Houston, TX this 8 Day of March, 2023.

GREAT MIDWEST INSURANCE COMPANY
CORPORATE SEAL
TEXAS CORPORATION

BY

Leslie K. Shaunty
Secretary

"WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files and application for insurance of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

The following documents must be submitted as printed. No alterations, additions, or deletions are allowed. If the Bidder notes a requirement in the contract documents that the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify the Engineer in writing. The Engineer will issue any necessary interpretation by an addendum.

PROPOSAL

PROPOSAL: PART A – SCOPE

The City of Polk City Iowa, hereinafter called the "Jurisdiction," has need of a qualified contractor to complete the work comprising the below referenced improvement. The undersigned Bidder hereby proposes to complete the work comprising the below referenced improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the City Clerk, at the prices hereinafter provided in Part C of the Proposal, for the following described improvements:

PROJECT DESCRIPTION:

The Project includes the full depth PCC replacement of public streets, PCC driveway approach replacement, and PCC crack sealing at various locations in Polk City, Iowa. The Project consists of approximately 440 SY of PCC Full Depth Repair, modifications to seven storm sewer structures, and associated work.

PROPOSAL: PART B – ACKNOWLEDGMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued, and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

ADDENDUM NUMBER _____ ADDENDUM NUMBER _____

ADDENDUM NUMBER _____ ADDENDUM NUMBER _____

and certifies that said addenda were utilized in the preparation of this bid.

PROPOSAL: PART C – BID ITEMS, QUANTITIES, AND PRICES

UNIT BID PRICE CONTRACTS: The Bidder must provide the Unit Bid Price, the Total Bid Price, any Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices are approximate only, but are considered sufficiently adequate for the purpose of comparing bids. The Total Construction Cost plus any alternates selected by the Jurisdiction, shall be used only for comparison of bids. The Total Construction Cost, including any Add-Alternates, shall be used for determining the sufficiency of the bid security.

BASE BID CONTRACTS: The Bidder must provide any Bid Prices, any Alternate Prices, and the Total of the Base Bid plus any Add-Alternates on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices. The Total of the Base bid plus any Alternates selected by the Jurisdiction shall be used only for comparison of bids. The Total of the Base Bid plus any Add-Alternates shall be used for determining the sufficiency of the bid security.

PROPOSAL: PART D – GENERAL

The Bidder hereby acknowledges that the Jurisdiction, in advertising for public bids for this project, reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsible, responsive bidder; and
2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsible, responsive bidder to be based on comparison of the total bid plus any selected alternates; and
3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Enter into a contract, if this proposal is selected, in the form approved by the Jurisdiction, provide proof of registration with the Iowa Division of Labor in accordance with Chapter 91C of the Iowa Code, and furnish a performance, maintenance, and payment bond; and
2. Forfeit bid security, not as a penalty but as liquidated damages, upon failure to enter into such contract and/or to furnish said bond; and
3. Commence the work on this project on or before a date to be specified in a written notice to proceed by the Jurisdiction, and to fully complete the project and to pay liquidated damages for noncompliance with said completion provisions at the rate of Five Hundred dollars ($500.00) for each calendar day thereafter that the work remains incomplete.

PROPOSAL: PART E – NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with the Jurisdiction; and

2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and

3. That no part of the bid price received by the Bidder was or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and

4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to submit a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other bidder, and that all statements in this proposal are true; and

5. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F – ADDITIONAL REQUIREMENTS

The Bidder hereby agrees to comply with the additional requirements listed below that are included in this proposal and identified as proposal attachments:

ITEM NO.	DESCRIPTION OF ATTACHMENT
1.	Part C- Bid Schedule
2.	
3.	
4.	
5.	
6.	

PROSECUTION AND PROGRESS OF THE WORK

1. The Work is located in the City of Polk City. Work on Sundays or legal holidays require approval of the City.
2. Time is of the essence in this project. The Contractor will be required to work a minimum of five (5) days per week, weather permitting.
3. Allowable working hours are between 7:00 am and 7:00 pm.

PROPOSAL: PART G – IDENTITY OF BIDDER

The Bidder shall indicate whether the bid is submitted by a/an:

- [ ] Individual, Sole Proprietorship
- [ ] Partnership
- [x] Corporation
- [ ] Limited Liability Company
- [ ] Joint-venture: all parties must join-in and execute all documents
- [ ] Other

The Bidder shall enter its Public Registration Number C 0 9 2 7 - 3 1 issued By the Iowa Commissioner of Labor Pursuant Section 91C.5 of the Iowa Code.

Failure to provide said Registration Number shall result in the bid being read under advisement. A contract will not be executed until the Contractor is registered.

MPS ENGINEERS, PC
dba KINGSTON SERVICES, PC
Bidder

Signature

By AMIT A. PRADHAN
Name (Print/Type)

VICE PRESIDENT
Title

1444 ILLINOIS STREET
Street Address

DES MOINES, IA 50314
City, State, Zip Code

515-221-9832
Telephone Number

Type or print the name and title of the company's owner, president, CEO, etc. if a different person than entered above

UMESH G. SHETYE
Name

PRESIDENT
Title

NOTE: The signature on this proposal must be an original signature in ink; copies, facsimiles, or electronic signatures will not be accepted.

PROPOSAL ATTACHMENT: PART C **Project Name: 2023 Street Repairs Project**

PROPOSAL

PROPOSAL ATTACHMENT: PART C – BID ITEMS, QUANTITIES, AND PRICES

This is a UNIT BID PRICE CONTRACT. The bidder must provide the Bid Price(s), any Alternate Price(s), and the Total of the Base Bid plus any Add-Alternates in this Proposal Attachment: Part C – Bid Items, Quantities, and Prices the total of the base bid plus any alternates selected by the Jurisdiction shall be used only for comparison of bids. The total of the Base Bid plus any Add-Alternates shall be used for determining the sufficiency of the bid security.

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1	Below Grade Excavation (Core Out)	CY	68	$ 54	$ 3,672
2.2	Subgrade Treatment, Geogrid, Triangular	SY	205	$ 4	$ 820
2.3	Special Backfill	TON	6	$ 98	$ 588
6	**STRUCTURES FOR SANITARY AND STORM**				
6.1	Remove Intake (Top-Only)	EA	5	$ 1,250	$ 6,250
6.2	Remove Intake	EA	2	$ 1,500	$ 3,000
6.3	Intake, SW-501, Top-Only	EA	2	$ 3,200	$ 6,400
6.4	Intake, SW-503, Top-Only	EA	1	$ 4,500	$ 4,500
6.5	Intake, SW-505, Top-Only	EA	2	$ 5,000	$ 10,000
6.6	Intake, SW-501, Cast In Place	EA	1	$ 6,500	$ 6,500
6.7	Intake, SW-503, Cast In Place	EA	1	$ 9,200	$ 9,200
7	**STREETS AND RELATED WORK**				
7.1	Full Depth Patches	SY	440	$ 136	$ 59,840
7.2	Crack and Joint Cleaning and Filling, Hot Pour	LF	100	$ 5	$ 500
7.3	Removal of Paved Driveway	SY	11	$ 26	$ 286
7.4	Driveway, Paved, PCC, 6"	SY	11	$ 92	$ 1,012
8	**TRAFFIC CONTROL**				
8.1	Temporary Traffic Control	LS	1	$ 9,200	$ 9,200
11	**GENERAL PROVISIONS**				
11.1	Mobilization	LS	1	$ 32,000	$ 32,000

TOTAL CONSTRUCTION COST BASE BID $ 153,768.00

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1A	Below Grade Excavation (Core Out)	CY	30	$ 54	$ 1,620
2.2A	Subgrade Treatment, Geogrid, Triangular	SY	90	$ 8	$ 720
7	**STREETS AND RELATED WORK**				
7.1A	Full Depth Patches	SY	180	$ 146	$ 26,280
8	**TRAFFIC CONTROL**				
8.1A	Temporary Traffic Control	LS	1	$ 750	$ 750
11	**GENERAL PROVISIONS**				
11.1A	Mobilization	LS	1	$ 1,250	$ 1,250

TOTAL CONSTRUCTION COST BID ALTERNATE A $ 30,620.00

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1B	Below Grade Excavation (Core Out)	CY	12	$ 54	$ 648
2.2B	Subgrade Treatment, Geogrid, Triangular	SY	35	$ 12	$ 420
7	**STREETS AND RELATED WORK**				
7.1B	Full Depth Patches	SY	69	$ 146	$ 10,074
7.2B	Crack and Joint Cleaning and Filling, Hot Pour	LF	32	$ 5	$ 160
8	**TRAFFIC CONTROL**				
8.1B	Temporary Traffic Control	LS	1	$ 750	$ 750
11	**GENERAL PROVISIONS**				
11.1B	Mobilization	LS	1	$ 1,250	$ 1,250

TOTAL CONSTRUCTION COST BID ALTERNATE B $ 13,302.00

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
2	**EARTHWORK**				
2.1C	Below Grade Excavation (Core Out)	CY	11	$ 54	$ 594
2.2C	Subgrade Treatment, Geogrid, Triangular	SY	34	$ 12	$ 408
7	**STREETS AND RELATED WORK**				
7.1C	Full Depth Patches	SY	67	$ 146	$ 9,782
8	**TRAFFIC CONTROL**				
8.1C	Temporary Traffic Control	LS	1	$ 1,250	$ 1,250
11	**GENERAL PROVISIONS**				
11.1C	Mobilization	LS	1	$ 1,250	$ 1,250

TOTAL CONSTRUCTION COST BID ALTERNATE C $ 13,284.00

Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

☒ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.

☐ Yes ☒ No My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.

☐ Yes ☒ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.

☒ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.

☐ Yes ☒ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa Secretary of State, has filed its most recent biennial report with the Secretary of State, and has neither received a certificate of withdrawal from the Secretary of state nor had its authority revoked.

☐ Yes ☒ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.

☐ Yes ☒ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.

☐ Yes ☒ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.

☐ Yes ☒ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa Secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.

☐ Yes ☒ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.

☐ Yes ☒ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

All bidders must submit the following completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156.

Bidder Status Form

To be completed by all bidders — Part A

Please answer "Yes" or "No" for each of the following:

☒ Yes ☐ No — My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).

☒ Yes ☐ No — My company has an office to transact business in Iowa.

☒ Yes ☐ No — My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.

☒ Yes ☐ No — My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.

☒ Yes ☐ No — My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered "No" to one or more questions above, your company is a non-resident bidder. Please complete Parts C and D of this form.

To be completed by resident bidders — Part B

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: 01/01/2010 to PRESENT Address: 1444 ILLINOIS STREET
(mm/dd/yyyy) City, State, Zip: DES MOINES, IA 50314

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

You may attach additional sheet(s) if needed.

To be completed by non-resident bidders — Part C

1. Name of home state or foreign country reported to the Iowa Secretary of State:

2. Does your company's home state or foreign country offer preferences to bidders who are residents? ☐ Yes ☐ No

3. If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

You may attach additional sheet(s) if needed.

To be completed by all bidders — Part D

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Firm Name: MPS ENGINEERS, PC dba KINGSTON SERVICES, PC

Signature: [signature] Date: 3/8/2023

BID BOND

KNOW ALL BY THESE PRESENTS:

That we, MPS Engineers, P.C. dba Kingston Services, P.C., as Principal, and Merchants National Bonding, Inc., as Surety, are held and firmly bound unto City of Polk City, Iowa, as Obligee, (hereinafter referred to as "the Jurisdiction"), in the penal sum of ---------- dollars ($ ----------), or 10% percent of the amount bid in lawful money of the United States, for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into a contract in writing, for the following described improvements;

2023 STREET REPAIRS PROJECT

The Project includes the full depth PCC replacement of public streets, PCC driveway approach replacement, and PCC crack sealing at various locations in Polk City, Iowa. The Project consists of approximately 440 SY of PCC Full Depth Repair, modifications to seven storm sewer structures, and associated work.

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Polk County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against Surety for any amount guaranteed hereunder whether action is brought against Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

(CONT. BID BOND) S&A Project No. 123.0188.01

Signed and sealed this 3rd day of March, 20 23.

SURETY:	PRINCIPAL:
Merchants National Bonding, Inc.	MPS Engineers, P.C. dba Kingston Services, P.C.
Surety Company	Bidder
By	By
Signature Attorney-in-Fact/Officer	Signature
Sara Huston, Attorney-in-Fact	AMIT A. PRADHAN
Printed Name of Attorney-in-Fact/Officer	Printed Name
Holmes, Murphy and Associates LLC	VICE PRESIDENT
Company Name	Title
2727 Grand Prairie Parkway	1444 Illinois Street
Company Address	Address
Waukee, IA 50263	Des Moines, 50314
City, State, Zip Code	City, State, Zip Code
515-223-6800	(515) 221-9832
Company Telephone Number	Telephone Number

NOTE: All signatures on this bid bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted. This bond must be sealed with the Surety's raised, embossing seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal.

MERCHANTS
BONDING COMPANY™

POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa, d/b/a Merchants National Indemnity Company (in California only) (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

Anne Crowner; Ben Williams; Brian M Deimerly; Cameron M Burt; Cindy Bennett; Craig E Hansen; D Gregory Stitts; Dione R Young; Donald E Appleby; Douglas Muth; Ginger Hoke; Grace Rasmussen; Greg Krier; James A Holter; Jay D Freiermuth; Jennifer Marino; Jessica Jean Rini; Jessie Allen; Joe Tiernan; John Cord; Kate Zanders; Mark R DeWitt; Mark Sweigart; Michelle R Gruis; Sara Huston; Sarah C Brown; Seth D Rooker; Stacy Venn; Tim McCulloh; Todd Bengford; W R Withrow

their true and lawful Attorney(s)-in-Fact, to sign its name as surety(ies) and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and amended August 14, 2015 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 16, 2015.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and aut hority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 24th day of January , 2023 .

MERCHANTS NATIONAL BONDING, INC. INCORPORATED -o- 2003

MERCHANTS BONDING COMPANY (MUTUAL) INCORPORATED -o- 1933

MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.
d/b/a MERCHANTS NATIONAL INDEMNITY COMPANY

By Larry Taylor
President

STATE OF IOWA
COUNTY OF DALLAS ss.

On this 24th day of January 2023 , before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

NOTARIAL SEAL IOWA
Kim Lee
Commission Number 702737
My Commission Expires
April 14, 2024

Kim Lee
Notary Public

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 3rd day of March , 2023 .

MERCHANTS NATIONAL BONDING, INC. INCORPORATED -o- 2003

MERCHANTS BONDING COMPANY (MUTUAL) INCORPORATED -o- 1933

William Warner Jr.
Secretary

POA 0018 (10/22)

_____ introduced the following resolution entitled "**RESOLUTION ADOPTING PLANS, SPECIFICATIONS, FORM OF CONTRACT AND OPINION OF PROBABLE CONSTRUCTION COST"** and moved that the same be adopted. _____ seconded the motion to adopt. The roll was called, and the vote was:

AYES: _____

_____

NAYES: _____

Whereupon, the Mayor declared the following Resolution duly adopted:

RESOLUTION NO. 2023-30

RESOLUTION ADOPTING PLANS, SPECIFICATIONS, FORM OF CONTRACT AND OPINION OF PROBABLE CONSTRUCTION COST.

WHEREAS on the 13 day of February 2023, plans, specifications, form of contract and opinion of probable cost were filed with the Clerk for the construction of certain public improvements described in general as the 2023 Street Repairs Project; and

WHEREAS, notice of hearing on plans, specifications, form of contract and estimate of cost for said public improvements was published as required by law:

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF POLK CITY, IOWA:

Section 1. That the said plans, specifications, form of contract and opinion of probable cost are hereby approved as the plans, specifications, form of contract and estimate of cost for said public improvements, as described in the preamble of this Resolution.

PASSED AND APPROVED this 13 day of March 2023.

_____
Steve Karsjen, Mayor

ATTEST:

_____
Jenny Coffin, City Clerk

_____introduced the following resolution entitled "**RESOLUTION MAKING AWARD OF CONSTRUCTION CONTRACT"** and moved that the same be adopted. _____ seconded the motion to adopt. The roll was called and the vote was:

AYES: _____

_____

NAYES: _____

Whereupon, the Mayor declared the following Resolution duly adopted:

RESOLUTION NO. 2023-31

RESOLUTION MAKING AWARD OF CONSTRUCTION CONTRACT.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF POLK CITY, IOWA:

Section 1. That the following bid for the construction of certain public improvements described in general as the 2023 Street Repairs Project, described in the plans and specifications heretofore adopted by this Council on March 13, 2023, be and are hereby accepted, the same being the lowest responsible bid received for said work, as follows:

Contractor:	Brothers Cleaning Corporation
Amount of bid:	$83,780 base bid $21,480 bid alt. A $12,183 bid alt. B $11,338 bid alt. C $128,781 = Total
Portion of project:	All Construction Work

Section 2. That the Mayor and Clerk are hereby directed to execute contract with the contractor for the construction of said public improvements, said contract not to be binding on the City until approved by this Council.

PASSED AND APPROVED this 13 day of March 2023.

_____
Steve Karsjen, Mayor

ATTEST:

_____
Jenny Coffin, City Clerk

MEETING MINUTES
The City of Polk City
City Council Meeting
6:00 p.m. February 27, 2022
City Hall – Council Chambers

Polk City, City Council held a meeting in the City Hall Council Chambers with public participation in person and via phone at 6:00 p.m., February 27, 2022. The agenda was posted at the City Hall office as required by law.
These tentative minutes reflect all action taken at the meeting.

1. ***Call to Order*** | *Mayor Karsjen called the meeting to order at 6:00 p.m.*

2. ***Roll Call*** | Walters, Dvorak, Sarchet, Vogel (via zoom), Anderson | In attendance

3. ***MOTION:*** A motion was made by Anderson and seconded by Dvorak to approve the agenda
MOTION CARRIED UNANIMOUSLY

4. ***Public Hearings:***
    a. Mayor Karsjen opened the Public Hearing on the proposed FY 24 maximum property tax levy at 6:01pm. City Clerk Coffin said that the notice was published February 10, 2023, and no comments had been received for or against the proposed maximum property tax levy. City Manager Huisman provided a report. Audrey Hiatt, 1102 Oakwood Dr. was present to be heard regarding property taxes.
    MOTION: A motion was made by Walters and seconded by Sarchet to close the public hearing at 6:14 pm.
    MOTION CARRIED UNANIMOUSLY
        i. ***MOTION***: A motion was made by Walters and seconded by Dvorak to approve Resolution 2023-24 approving FY 24 maximum property tax levy
        MOTION CARRIED UNANIMOUSLY

    b. Mayor Karsjen opened the Public Hearing on the proposed rezoning of property owned by the City of Polk City located at 214 S. 3rd Street and 302 W. Van Dorn Street at 6:20pm. City Clerk Coffin said that the notice was published February 17, 2023, and no comments had been received for or against the proposed rezoning. City Engineer, Travis Thornburgh with Snyder & Associates provided a report. No one was present to be heard for or against the rezoning.
    MOTION: A motion was made by Sarchet and seconded by Walters to close the public hearing at 6:22 pm.
    MOTION CARRIED UNANIMOUSLY
        i. ***MOTION***: A motion was made by Anderson and seconded by Dvorak to approve First Reading of Ordinance 2023-4000 approving rezoning from C-1 Central Business District to U-1 Utility District
        MOTION CARRIED UNANIMOUSLY
        ii. ***NO MOTION was made on option to waive second and third reading***

5. ***Public Comments*** **|** None

6. ***Consent Items*** **|**
    a. City Council Meeting Minutes for February 13, 2023
    b. City Council Work Session Meeting Minutes for February 13, 2023
    c. Claims listing February 27, 2023
    d. January 2023 Finance Report
    e. Receive and file the P&Z Commission Meeting Minutes for February 20, 2023
    f. FY 22 Annual Audit Report
    g. Resolution 2023-25 approving Pay App No. 1 in the amount of $24,605 for the Fire Station Remodel Project
    h. Resolution 2023-26 to fix a date for a public hearing on proposal to enter into a Water Revenue Loan and Disbursement Agreement and to borrow money thereunder in a principal amount not to exceed $407,000
    i. FY 22/23 Budgeted Pressure Washer Purchase in the amount of $10,500
    j. Resolution 2023-27 designating Luana as a Depository for the Deposit of Public Funds of the City of Polk City

    MOTION: A motion was made by Anderson and seconded by Sarchet to approve the consent agenda items
    MOTION CARRIED UNANIMOUSLY

7. ***Business Items***
   a. City Engineer, Travis Thornburgh, with Snyder & Associates, provided an overview of the Engineering Services Agreements (ESA) for Phase 2 and Phase 4 of the proposed Hight Trestle Trail to Neal Smith Trail Connector Projects
      i. ***MOTION:*** A motion was made by Sarchet and seconded by Dvorak to approve the ESA for Phase 2 in the amount of $46,700
         YES: Dvorak, Sarchet, Vogel, Anderson
         ABSTAIN: Walters
         MOTION CARRIED
      ii. ***MOTION:*** A motion was made by Dvorak and seconded by Anderson to approve ESA for Phase 4 in the amount of $46,500
         YES: Anderson, Dvorak, Sarchet, Vogel
         ABSTAIN: Walters
         MOTION CARRIED UNANIMOUSLY

   b. ***MOTION:*** A motion was made by Walters and seconded by Sarchet to approve the Second Reading of Ordinance 2023-3000 amending Chapter 55, Animal Protection and Control
      MOTION CARRIED UNANIMOUSLY
      i. ***MOTION:*** A motion was made by Sarchet and seconded by Dvorak to waive the Third Reading of Ordinance 2023-3000 amending Chapter 55, Animal Protection and Control
         MOTION CARRIED UNANIMOUSLY

   c. ***MOTION:*** A motion was made by Anderson and seconded by Dvorak to approve the Third Reading of Ordinance 2023-2000 rezoning Gateway Crossings
      MOTION CARRIED UNANIMOUSLY

8. ***Reports & Particulars*** **|** Mayor, Council, City Manager, Staff, Boards, and/or Commissions
   - Council Member Dvorak said the connections to the High Trestle Trail and Neal Smith trail have been needed for a long time and he said he is excited to see the projects moving forward.
   - Council Member Anderson said he is glad Polk County is a partner in connecting trails to Polk City.

9. ***MOTION*****:** A motion was made by Anderson and seconded by Dvorak at 6:48 pm to enter into **Closed Session** under Code of Iowa; Chapter 21 Official Meetings open to Public; **section 5 Closed Session;** sub paragraph 1.j To discuss the purchase or sale of particular real estate only where premature disclosure could be reasonably expected to increase the price the governmental body would have to pay for that property or reduce the price the governmental body would receive for that property. The minutes and the audio recording of a session closed under this paragraph shall be available for public examination when the transaction discussed is completed.
   MOTION CARRIED UNANIMOUSLY

10. *(AFTER CLOSED SESSION ENDED AT 7:16pm)* No action was taken on closed session item

11. ***Adjournment***
    MOTION**:** A motion was made by Anderson and seconded by Dvorak to adjourn at 7:17p.m.
    MOTION CARRIED UNANIMOUSLY

Next Meeting Date –March 13, 2023

_____
Steve Karsjen, Mayor

Attest

_____
Jenny Coffin, City Clerk

CLAIMS REPORT			
CITY OF POLK CITY	DATED		3/13/2023
VENDOR	REFERENCE	AMOUNT	
ACCUJET LLC	SEWER TV WORK	$	1,721.73
Acme Tools	BATTERY OPPERATED SAWS	$	1,364.24
Amazon	LARGE TIMER FOR PROGRAMS	$	1,422.02
AMERICAN HOME SERVICES	FURNACE REPAIR	$	905.00
ARDICK EQUIPMENT CO.	SIGNS	$	319.00
BAKER & TAYLOR	BOOK CLUB	$	1,826.69
BANLEACO	LIBRARY COPIER LEASE	$	67.80
BATTERIES PLUS	BARRICADE BATTERIES	$	73.40
Bound Tree Medical	MEDICAL SUPPLIES	$	1,306.18
BRAVO GREATER DES MOINES	HOTEL/MOTEL TAX 10/1-12/31/22	$	4,108.35
BRICK LAW FIRM	ATTORNEY FEES	$	7,410.00
BUSINESS PUBLICATIONS CORP	PUBLICATIONS	$	859.56
CENTURY LINK	PHONE SERVICE	$	572.26
CHRISTIAN BROTHERS AUTOMOTIVE	#22 LOF	$	101.24
CITY LAUNDERING	FLOOR MAT SERVICE	$	108.71
CITY OF DES MOINES	WRA-HOOKUP	$	30,922.05
CITY OF POLK CITY	UB ASSISTANCE MAR 23	$	250.00
Crystal Clear Water Co	PURCHASED WATER	$	44.19
Custom Awards & Embroidery Inc	DEDICATED MEMBER PLAQUE	$	55.00
RLC ENTERPRISES	PEST MANAGEMENT	$	200.00
DAVID LLEWELLYN	SUPPLIES - CHIEF OOT	$	64.96
Delta Dental	CITY DENTAL INSURANCE	$	1,321.04
Des Moines Water Works	PURCHASED WATER	$	29,240.54
EBSCO	ANNUAL LIBRARY TALK	$	1,013.00
ELECTRONIC ENGINEERING CO.	SHARED ALARM MONITORING	$	70.00
Ferguson Waterworks	PIT METER	$	649.48
FIRST BANKCARD	CITY CREDIT CARD	$	5,879.76
GALL'S INC.	OWEN CLASS A	$	620.37
GREATAMERICA FINANCIAL	SHARED COPIER LEASE	$	517.19
HACH COMPANY	WATER DEPARTMENT SUPPLIES	$	777.81
INSPIRON LOGISTICS	ANNUAL WENS SERVICE 4/23-4/24	$	2,585.00
Iowa Prison Industries	ADMIN SHIRTS	$	202.24
JENNY COFFIN	MILEAGE REIMBURSEMENT	$	22.66
Keck Energy	FUEL	$	1,533.70
KEYSTONE LABORATORIES INC.	WATER TESTING	$	124.00
KIMBERLY JACKMAN	ADULT YOGA	$	144.00
MCKINNEY TOWING	#25 TOWED TO STEWS FOR REPAIR	$	255.00
MEDIX OCCUPATN HEALTH -ORCA PC	CHRISSY BRISTLE PHYSICAL	$	18.00
MENARDS	CITY SUPPLIES	$	333.05
MI-FIBER	CITY INTERNET	$	9.95
NICK KLATT	TRAINING MATERIAL REIMB	$	25.58
O'Halloran International Inc	Truck Repair	$	948.15
ONESOURCE	PREEMPLOYMENT BACKGROUND CHECK	$	42.00
OVERDRIVE INC	EBOOKS	$	392.34
PITNEY BOWES	POSTAGE METER & RENTAL	$	926.40
PORTABLE PRO, INC.	PORTABLE SERVICE	$	450.00

RACHEL SNYDER	CHAIR YOGA 9 SESSIONS	$	270.00
RACOM	EDACS	$	862.92
RANGEMASTERS TRAINING CENTER	SHERMAN UNIFORMS 7/2022	$	872.85
REGISTER MEDIA	PUBLICATIONS	$	39.01
RELIANT FIRE APPARATUS	E451 REPAIRS	$	7,833.52
RUAN, INCORPORATED	VEHICLE LEASE - T10901/T11189	$	3,053.76
Safe Building Comp. & Tech	BUILDING INSPECTIONS	$	5,458.32
Sandry Fire Supply L.L.C.	ANNUAL TOOL MAINTENANCE	$	2,419.94
SAVANAH MCDERMOTT	SMART START BBALL REFUND	$	50.00
SBS SERVICES GROUP LLC	JANITORIAL - FEBRUARY	$	1,195.00
STAPLES CREDIT CARD	OFFICE SUPPLIES	$	323.08
STEW HANSEN	#25 FUEL LINE	$	176.00
STREICHER'S - MINNEAPOLIS	SIMULATION TRAINING GEAR	$	92.98
TIARA KENNEDY	ADULT YOGA	$	168.00
UNITY POINT CLINIC - OCC MED	DOT DRUG SCREEN	$	42.00
WEX	PW/PD/FD FUEL	$	4,866.75
Accounts Payable Total		$	129,527.77
GENERAL		$	57,561.36
ROAD USE		$	3,002.05
L.M.I		$	250.00
CAPITAL EQUIPMENT/VEHICLE		$	3,053.76
WATER		$	31,347.21
SEWER		$	34,313.39
TOTAL FUNDS		$	129,527.77

MEETING MINUTES
The City of Polk City
Parks Commission
6:00 p.m., Monday, March 6, 2023
City Hall

The Polk City Parks Commission held a meeting at 6:00 pm, on March 6, 2023. The agenda was posted at the City Hall office as required by law. **These tentative minutes reflect all action taken at the meeting.**

1. ***Call to Order*** |*The meeting was called to order at 6:01 p.m.*

2. ***Roll Call*** | Otis, Converse, Delaney, Haaland, Savage, Ten-Napel | In attendance
   Jablonski | Absent.

3. ***MOTION:*** A motion was made by Otis and seconded by Ten-Napel to approve the February 6, 2023 meeting minutes. ***MOTION CARRIED UNANIMOUSLY***

4. ***Audience Items:*** None

5. **Discuss Park Projects for Capital Improvements Plan for FY '26 - '30**
   - Thraen introduced the subject, said it is more of a work session tonight to brainstorm ideas for council's consideration. $10,000 and above to be considered a CIP.
   - Otis asked for an updated on what's still outlined in the next few years CIP that just haven't been completed yet, Thraen said items in the current CIP include:
     - Many High-Trestle trail connection related items
     - Regional Park $5M start-up
     - West Bridge trail gap
     - East Broadway trail gap
     - West Bridge trail gap (section across Army Corp land)
     - Woodhaven trail to Neal Smith trail
     - Twelve Oaks Park Phase 2 (finishing trail in park and other site improvements, erosion control, pond fountains, etc.)
   - Other ideas include:
     - Converse asked if any future trailheads were needed with all these new trail projects
     - Trailhead on Army Corp land as you come into town off the bridge - parking will be a concern here with Sports Complex
     - Converse mentioned to continue progressing with Regional Park
     - Ten-Napel asked if any greenspace or park is planned at Deer Haven neighborhood. Thraen mentioned that since that development, the city now has improved parkland dedication requirements but that this area would likely remain greenspace
     - Otis mentioned a need for a trail connection from Parker to Woodhaven neighborhood
     - Otis asked about the awkward piece of parkland near the new Home State Bank site and what could be done with that property. Thraen mentioned that it will be difficult to establish prairie seeding in this due to the steep topography
     - Delaney said she would like to keep the focus for the next 5 years on developing the regional park project. Ten-Napel seconded this, and said as the community continues to grow, so will the sports teams, and we'll simply run out of space. Recommend council to establish a deadline for when the final project will be completed and then back it up and determine next actionable steps. Thraen confirmed that we are still awaiting a cost opinion back from Knapp Properties to do the mass grading portion of the project. $5M is currently budgeted in the current CIP for the regional park. Commission agreed that a big focus would need to be on continuing to fund development of this park, especially since it checks the box for so many other needs beyond rec fields, such as dog park, splash pad, natural spaces, fishing opportunities, trails, etc.
     - Converse asked about other future neighborhood park developments needed in the next 5 years. Thraen confirmed Four Seasons neighborhood, and Antler Ridge developments would have parkland dedication. Knowing the timing of these developments is yet determined, a good placeholder for the next CIP would be planning dollars for a park masterplan to determine approximate costs for these.

- Ten-Napel asked about providing additional fishing opportunities beyond Marina Cove and Twelve Oaks Parks
- Ten-Napel mentioned an archery range for future odd-park development
- Delaney mentioned an idea for an orchard or arboretum
- Park by Park ideas:
    - Doc Simmer
        - Last summer Parks & Rec intern provided some ideas for a Story walk, Fairy Garden Walk, small frisbee golf course
        - Delaney said she thinks a Fairy Garden walk can co-exist with a frisbee golf course
        - Otis mentioned there is not great access to the park, but additional access would require easements for private property owners
    - Kiwanis Park
        - This park is leased from the Army Corp and is located in floodplain
        - Ten-Napel said priority for this park should be making it pedestrian and bicyclist friendly
        - Delaney asked if an additional volleyball pit could be added
    - Leonard Park
        - Delaney asked if a t-ball field could go there, but without a parking lot it would be challenging
        - Shade shelter will be installed this spring here
        - Haaland reinforced that those who want to use the park will find a way to park if there is greenspace available
        - Delaney mentioned an odd, wedge-shaped property south of Leonard Park along Parker could be utilized for something such as community gardens or more natural space development
    - Lost Lake
        - Converse asked if the existing CIP contains additional developments to finish up the current project. Thraen confirmed that there are some minor improvements to finish up there yet, maybe future gardens in this area as well. Ten-Napel asked if there had ever been any considerations for other types of parks. Ages 12+ has been a request, maybe something could go here to accommodate that demographic
    - Marina Cove
        - More fish!
        - Delaney mentioned she'd like to see better erosion control around the pond and long-term maintenance to improve the pond health
        - Fishing dock would need to be provided for access if a natural planting buffer is done
    - Miller Park
        - Resurfacing of the tennis courts, suggest doing multi-use for pickleball
        - Gaga ball tournament pit
        - This park needs more promotion on overall use
        - Remodel of the shelter house
    - Morse Family Park
        - Bouldering feature
        - More natural playscape amenities and updates
    - Sports Complex
        - Extend gravel parking lot to the east
        - Cool trailhead feature (concept from Community Visioning plan) and trail connection
        - Scoreboards
        - Higher gauge fencing on backstops or padding
        - Improve drainage by installing tile in soccer fields - may not be feasible with Army Corp
    - Town Square
        - Update and paint the bandstand
        - More flower plantings around the Square
        - Updated pavers around bandstand
        - Updated playground
        - City has been discussing doing a master plan
        - Bury electrical boxes underground, make power panels more efficient

- Twelve Oaks
    - Replace riprap with native vegetation around the pond to support pond health. Thraen confirmed that there is some money in the current CIP to support this

6. Discuss Polk City Square Playground Improvements –

Thraen reported that the existing square play surfacing and a few pieces of equipment (swings, wave-rider) were installed in 2016. The Friends of the Parks and a few other civic organizations would like to see improvements happen. The existing 2-5 year old play equipment and slide is almost 20-years old, which is nearing the end of their useful life. If the spring-riders are decommissioned, a much larger and more age-accommodating play structure could be provided and still meet the fall-zone requirements. Commission agreed that doing a play structure that is more inclusive for ages and abilities would be great. Delaney and Haaland said it would be good to keep design-style in keeping with the historic or retail feel of The Square.

7. *Reports & Particulars* | Council Liaison, City Manager, Staff, and Commission

- Thraen mentioned that registration is now open for summer programs this morning, and the response has been great. He will go over the summer programs in more detail at a future Commission meeting.
- Delaney asked if we could get a council work session scheduled soon. Thraen said right now the council's focus is on getting through the budget session but will get it scheduled sometime this year.

8. ***MOTION:*** A motion was made by Converse seconded by Otis to adjourn at 7:38 p.m.
MOTION CARRIED UNANIMOUSLY
Next Meeting Date – April 3, 2023

Submitted by Parks Commission Secretary:

_____
Monica Converse

Attest:

_____
Jason Thraen, Parks & Recreation Director

POLK CITY LIBRARY BOARD MEETING NOTES
Polk City Community Library
1500 W. Broadway, Polk City, IA
Monday, March 6, 2023 at 6:30 pm

I. Call to order – President England called meeting to order at 6:29pm.

II. Approval of the Agenda

MOTION: A motion was made by Rod Bergren and seconded by Angie Conley to approve Meeting Agenda.
MOTION PASSED unanimously.

Board Members Present:	Rod Bergren, Angie Conley, Corey Hoodjer, Lisa England, Sara Olson
Board Members Absent:	Corey Hoodjer
Library Director Present:	Jamie Noack
City Council Liaison Present:	None
Guests Present:	None

III. Consent Items

MOTION: A motion was made by Sara Olson and seconded by Rod Bergren to approve Consent Items.
MOTION PASSED unanimously.

1. Approve the February 2023 Board Minutes
2. Approve January 2023 financial statements
   a. January 2023 History
   b. January 2023 Budget
   c. January 2023 Revenue & Expenses

IV. Communication from the Public – None

V. Director's Report

Library Director's Report
February 2023

Library Statistics:

- February Circulation and library usage
  - February 2023 circulation of 4,410 was an increase of 29 checkouts compared to January 2023 and an increase of 877 compared to February 2022.
  - 1,825 individuals visited the library in February. This is a decrease of 163 compared to January 2023. It is an increase of 280 visitors compared to February 2022.
  - Library Patrons saved $42,417 in February by borrowing materials from the library versus purchasing them (does not include digital ebook/audiobook downloads or hotspot loans).
  - 33 passport applications were processed
  - 3 Notary appointments
  - 7 Adventure passes were used saving patrons $290.

- Library Page Betty Peer has resigned. We have had 7 applicants for the position. I will be doing interviews within the next week. A special Board meeting will likely be needed to approve the hiring.
- Allyson Reister has received her certification as a passport acceptance agent which brings us back to having 4 acceptance agents on staff.
- There was a discovery regarding pay periods during this fiscal year, July 1 last year and June 30 this year. This means there are 27 pay checks sent. Director Noack will work with the City Administrator to work on this regarding budget issue.
- The Friends of the Library Stuff-a-Pup Story Time on February 11 was a big success.

- The Friends of the Library will receive just shy of $5,000 from the Polk City Community Foundation for their role in helping with the Gala.
- The Library and Parks & Rec departments send out a joint sponsorship letter each February. The library has currently received $2,900 from 16 area businesses. Donation amounts range from $50-300.
- 76 patrons have downloaded the myLibro app.
- The library closed early twice in February due to weather concerns.
- During the week of February 20, the library had extra youth activities planned for the scheduled no school and early out days. Attendance was minimal.
- The library has extra youth activities scheduled during the week of Spring Break.
- April 10 is a no school day. The library is partnering with the Polk City Police Department for a special storytime with Eudoris.

1. February 2023 Stats

LIBRARY -FEBRUARY 2023 STATS SNAPSHOT	February 2022	February 2023	January 2023
Total Visitors	1,545	1,825	1,988
People Checking Out	313	357	333
Polk City Cardholders	275	304	289
Polk City Checkouts	2,357	2,793	2,732
Open Access Cardholders	20	27	20
Open Access Checkouts	97	237	180
Rural Cardholders	18	26	24
Rural Checkouts	263	203	215
Bridges E-book/Audiobook Checkouts	791	1,146	1,211
Outgoing ILL Books	25	31	43
Total Checkouts (incl. Bridges & Outgoing ILL)	3,533	4,410	4,381
Auto Renewals	424	568	455
Total Checkouts (adjusted for auto-renewal)	3,109	3,842	3,926
Incoming ILL Books	44	30	30
Reserves Placed	303	282	382
Materials Added	48	178	165
Materials Withdrawn	180	62	17
New Cards Issued	15	19	20
Computer Users	31	33	39
WiFi Users (on site)	248	311	316
AWE Station Usage	98	104	96
AWE Games Played	286	344	297
Adult Programs	35	30	32
Adult Program Attendance	219	201	268

Youth Programs	21	23	16
Youth Program Attendance	343	432	167
Tutoring	0	2	4
No. of Meeting Room Uses by Outside Groups	3	2	2
Patron Savings (physical materials only)	$36,932	$42,417	$42,795
Passports	40	33	60
Blank Park Zoo Adventure Pass ($44)	1	0	1
Science Center of Iowa Adventure Pass ($44)	3	5	3
Botanical Gardens Adventure Pass ($34)	2	1	1
Des Moines Children's Museum ($36)	2	1	2
Reiman Gardens ($34)	0	0	1
TOTAL ADVENTURE PASS SAVINGS	$213	$290	$316
Summer Reading Signups (0-11) as of 7/31			
Summer Reading Signups (12-18) as of 7/31			
Adult Reading Participation as of 7/31			
Social Media Page Views (Feb 1-28)	172	537	267
Social Media Post Reach (Feb 1-28)	2,170	1,935	2,163
New Social Media Followers(Feb 1-28)	17	11	7
New Social Media Likes (Feb 1-28)	15	5	6
Website Views	2,039	2,624	3,507

VI. Liaison report – None

VII. Board Education: Angie Conley – ILA Intellectual Freedom for Trustees from ILA's Intellectual Freedom Committee 6:35pm – 6:50pm; 15minutes

VIII. Agenda Items

1. Review Tier Standards-Section 3: Library Personnel; reviewed

2. Review Circulation Policy & Appendix of Charges; reviewed

3. Amend Weather-Emergency Policy (current) Weather-Emergency Policy (proposed)
   MOTION: A motion was made by Angie Conley and seconded by Sara Olson to approve amending Weather-Emergency Policy.
   MOTION PASSED unanimously.

4. Approve Resolution 2023-02L Hiring of Library Page – this will be tabled until all applicants have been interviewed and candidate selected. A special meeting will be held at a time to be determined.

IX. Adjourn – President England adjourned meeting at 7:02pm.

MOTION: A motion was made by Rod Bergren and seconded by Angie Conley to adjourn meeting.
MOTION PASSED unanimously.

Next Meeting Monday, April 3, 2023

Mission Statement: The Polk City Community Library provides a place where all can meet, learn, and grow.

Library Director's Report
February 2023

Library Statistics:

- February Circulation and library usage
    - February 2023 circulation of 4,410 was an increase of 29 checkouts compared to January 2023 and an increase of 877 compared to February 2022.
    - 1,825 individuals visited the library in February. This is a decrease of 163 compared to January 2023. It is an increase of 280 visitors compared to February 2022.
    - Library Patrons saved $42,417 in February by borrowing materials from the library versus purchasing them (does not include digital ebook/audiobook downloads or hotspot loans).
    - 33 passport applications were processed
    - 3 Notary appointments
    - 7 Adventure passes were used saving patrons $290.

- Library Page Betty Peer has resigned. We have had 7 applicants for the position.
- Allyson Reister has received her certification as a passport acceptance agent which brings us back to having 4 acceptance agents on staff.
- It was recently discovered that based on FY23 pay periods, there are 27 paydays this year instead of 26 which will cause us to be over budget on salary. The city is working with individual departments to make adjustments.
- The Friends of the Library Stuff-a-Pup Story Time on February 11 was a big success.
- The Friends of the Library will receive just shy of $5,000 from the Polk City Community Foundation for their role in helping with the Gala.
- The Library and Parks & Rec departments send out a joint sponsorship letter each February. The library has currently received $3,050 from 17 area businesses. Donation amounts range from $50-300.
- 76 patrons have downloaded the myLibro app.
- The library closed early twice in February due to weather concerns.
- During the week of February 20, the library had extra youth activities planned for the scheduled no school and early out days. Attendance was minimal.
- The library has extra youth activities scheduled during the week of Spring Break.
- April 10 is a no school day. The library is partnering with the Polk City Police Department for a special storytime with Eudoris.

LIBRARY -FEBRUARY 2023 STATS SNAPSHOT	February 2022	February 2023	January 2023
Total Visitors	1,545	1,825	1,988
People Checking Out	313	357	333
Polk City Cardholders	275	304	289
Polk City Checkouts	2,357	2,793	2,732
Open Access Cardholders	20	27	20
Open Access Checkouts	97	237	180
Rural Cardholders	18	26	24
Rural Checkouts	263	203	215
Bridges E-book/Audiobook Checkouts	791	1,146	1,211
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Polk City Community Library Inclement Weather/Emergency Policy

It is the responsibility of the Polk City Community Library to ensure the safety of both patrons and staff when inclement weather impacts the area.

REGULATIONS

SEVERE WEATHER-TORNADO WARNING

- When severe weather is possible, the library will use the NOAA Weather Radio to monitor alerts.
- Library staff receiving the severe weather or tornado WARNING shall notify all patrons in the library.
- All staff and patrons shall make preparations for evacuation to the "Tornado Safety Area' in the women's restroom.
- All staff will be prepared for power outages by having a working flashlight.
- The library staff shall take refuge in the "Tornado Safety Area" where the situation will be monitored.
- The library staff will notify patrons in the "Tornado Safety Area" when the warning has expired.

TORNADO WARNING OR SEVERE WEATHER INSTRUCTIONS WILL BE POSTED FOR GROUPS ATTENDING MEETINGS IN THE MEETING ROOM OUTSIDE OF REGULAR LIBRARY HOURS.

CLOSING FOR WINTER WEATHER, MECHANICAL ISSUES OR OTHER EMERGENCIES:

- If the North Polk School District has a late start due to inclement weather, all morning programs at the Polk City Community Library will be canceled.
- If the North Polk School District is dismissed early due to inclement weather, all afternoon and evening programs will be canceled.
- If the North Polk School District cancels classes for the entire day due to weather, the library will make an announcement by 9:00 am regarding the status of the library.
- The Library Director may choose to close the library due to weather conditions, power failure or failure of heating/cooling equipment. Staff scheduled to work during the affected hours of such closings may take PTO or work from home.
- In the event of such a closing, notices will be posted on the library's website and Facebook page. Signs will be posted at the library near the entrance when possible.

PROCEDURES

SEVERE WEATHER-TORNADO WARNING

- When severe weather is possible, monitor conditions with the provided NOAA weather radio
    - Turn the weather radio on. (Top right side)
    - Make sure the frequency is at 162.550. Use channel arrows on right side if it is not automatically there.
    - Make sure the WB shows in the screen above the frequency.
        - Press “Mode” button (bottom left) repeatedly until WB shows up
    - To put in “Standby” mode, press and hold the “Mode” button until the red light turns on next to the antenna.
    - Turn the weather radio off when the threat of severe weather has passed.
- When a tornado or thunderstorm warning is issued for NE Polk County (or the sirens have been activated)
    - Notify all staff and patrons that there is a weather warning in place
    - Explain to patrons that the women’s restroom is our “Safety Area” and they should begin preparing to move to that area
    - Staff should obtain working flashlights in case of power outages. The weather radio has a built-in flashlight.
    - Flashlights and the weather radio should accompany staff to the “Safety Area”
    - Lock doors
    - Turn off computers

WINTER WEATHER

- The Library Director will monitor road conditions and school closings
- If North Polk Schools delays the start of classes, dismisses classes early or cancels classes entirely, the Library Director will notify staff of the library’s action plan.
    - If the library is open, staff may elect to use PTO or work from home if they choose not to come to work.
    - If the library is closed, staff may elect to use PTO or work from home.

- Prior to closing the library, the Library Director will:
    - Consult with Public Works to determine their ability to keep the parking lot and sidewalks cleared
    - Consult with Public Safety regarding road conditions
    - Consult with the Board President or the City Administrator before making the final decision

POWER ISSUES

- If the power goes out, the Library Director or staff-in-charge should gather a flashlight if needed.
- The staff should contact MidAmerican Energy at 800-799-4443 to determine if the outage is localized or widespread and how long the outage is expected to last.
- Unplug computers, electronics and other sensitive appliances to avoid possible damage when electricity is restored.
- When power resumes, reset clocks. Plug in only essential items. Wait 10 minutes before connecting the rest to let the electrical system stabilize.
- Prior to closing the library, the Library Director will:
    - Evaluate the length of the outage
    - Consult with the Board President or City Administrator
- If the library must be closed, staff may elect to use PTO or work from home.

HEATING & COOLING ISSUES

- If the heating or cooling system fails, the Library Director or staff-in-charge should contact Public Works to evaluate the situation.
- At the advice of Public Works, repair technicians will be called.
- Prior to closing the library, the Library Director will:
    - Evaluate the severity of the heating/cooling issue and the length of time needed for repairs
    - Consult with the Board President or City Administrator
- If the library must be closed, staff may elect to use PTO or work from home.

OTHER EMERGENCIES

- In the case of unforeseen emergencies, the Library Director or staff-in-charge should consult with necessary public officials (Public Works, Public Safety, Department of Health, City Administrators) to evaluate the situation and determine the library's plan of action.

Revised August 6, 2018
Reviewed April 1, 2019
Reviewed May 3, 2021
Revised March 6, 2023

_____
Lisa England, Board President

City of Polk City, Iowa

City Council Agenda Communication

Date: **March 13, 2023 City Council Meeting**
To: Mayor Steve Karsjen & City Council
From: Chelsea Huisman, City Manager

Subject: **Community Project Funding Request-Connecting the Neal Smith Trail to the High Trestle Trail through Polk City**

BACKGROUND: Zach Nunn's office recently began accepting applications for Community Projects. I would like to apply for the Neal Smith to High Trestle Trail connection, and request funding from the program in the amount of $831,000. Although there is no requirement that the City Council approve a resolution of support, our application will be scored based on community support. Applications are due March 15, 2023.

ALTERNATIVES: Do not approve the resolution of support

FINANCIAL CONSIDERATIONS: The financial considerations for this project are $831,000 in potential revenue. If awarded, this funding will provide us with 100% funding to complete the project.

RECOMMENDATION: It is my recommendation that the Council approve the resolution to support the "connecting the Neal Smith Trail to the High Trestle Trail through Polk City" project.

RESOLUTION NO. 2023-32

A RESOLUTION PROVIDING SUPPORT FOR THE COMMUNITY PROJECT FUNDING FOR "CONNECTING THE NEAL SMITH TRAIL TO THE HIGH TRESTLE TRAIL THROUGH POLK CITY" PROJECT

WHEREAS, Community Project Funding requests are congressionally-directed grants funded by the annual government appropriations legislation; and

WHEREAS, the City of Polk City has prioritized connecting the Neal Smith Trail to the High Trestle Trail through Polk City and has secured multiple outside funding sources to construct the project in phases; and

WHEREAS, Polk City will submit an application for $831,000 to secure the remaining funds needed to construct the project in all phases; and

NOW, THEREFORE BE IT RESOLVED, by the City Council of the City of Polk City, Iowa to fully support an application for Community Project Funding for "Connecting the Neal Smith Trail to the High Trestle Trail through Polk City."

PASSED AND APPROVED the 13th day of March 2023.

_____
Steve Karsjen, Mayor

Attest:

_____
Jenny Coffin, City Clerk

City of Polk City, Iowa

City Council Agenda Communication

Date: March 13, 2023

To: Mayor, City Council, and City Manager

From: Karla Hogrefe – Fire Chief

Subject: February 2023 Monthly Report

BACKGROUND: There were 51 calls for service in the month of February, which was up 2 calls from January. We had paramedic coverage 26 nights out of 28. There were 8 shifts that our two full-time members picked up for overtime.

Firefighter I class began on February 11. This class consists of Part-time Paramedic Alyssa Wallace, Intern Grant Chaney, and Paid-on-call member Matthew Reetz. We also have an external member from Elkhart, Rich Voyek, who is part-time FF/EMT Mark Voyek's father. The class meets for skills on Tuesday and Thursday nights. The expected finish date for this course is April 6.

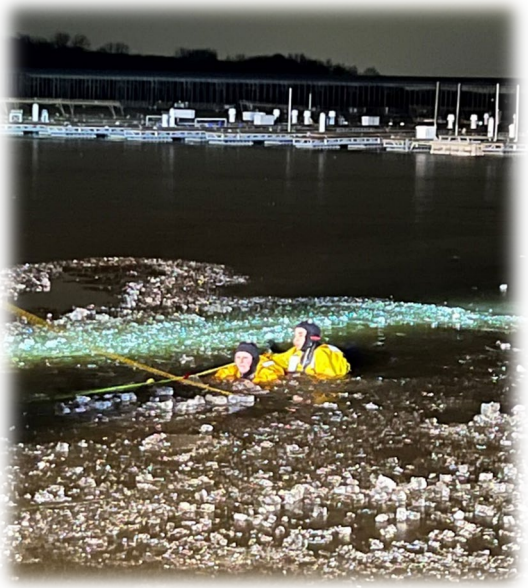
Here the FFI class is practicing donning and doffing their gear.

PUBLIC RELATIONS: On February 14, Chief Hogrefe went to visit with the North Polk Middle School Leadership class to give a presentation on the Fire Department. We will be assigned 1-2 students to help us with a special project in the next few months.

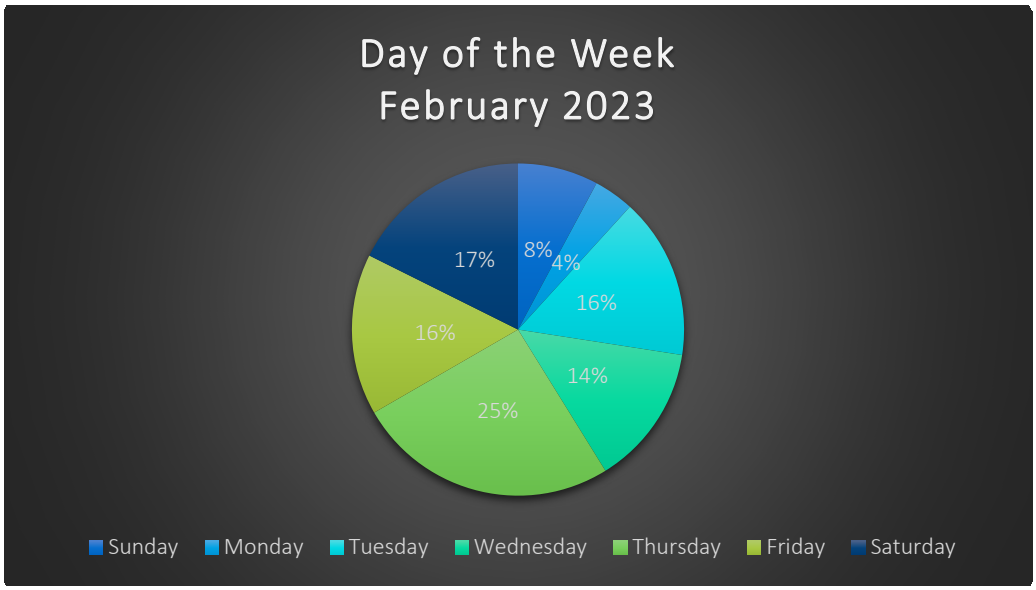
On February 23 the duty crew went to Lakeside Fellowship to play dodgeball with Parks & Rec kids and the police department.

February Staff Anniversaries:
Deputy Chief Jeff Feller – 19 years
FF/EMT Brian Hanson – 9 years

TRAINING: We conducted 4 training classes during the month of February. February 7 – EMS Training – Post Resuscitation with two continuing education hours. February 14 – Fire – Pittsburgh Drill – a drill designed to rescue a downed firefighter. February 21 – Fire – Pittsburgh Drill, make-up day. February 28 – Fire – Ice Rescue Training at Saylorville Lake Marina.

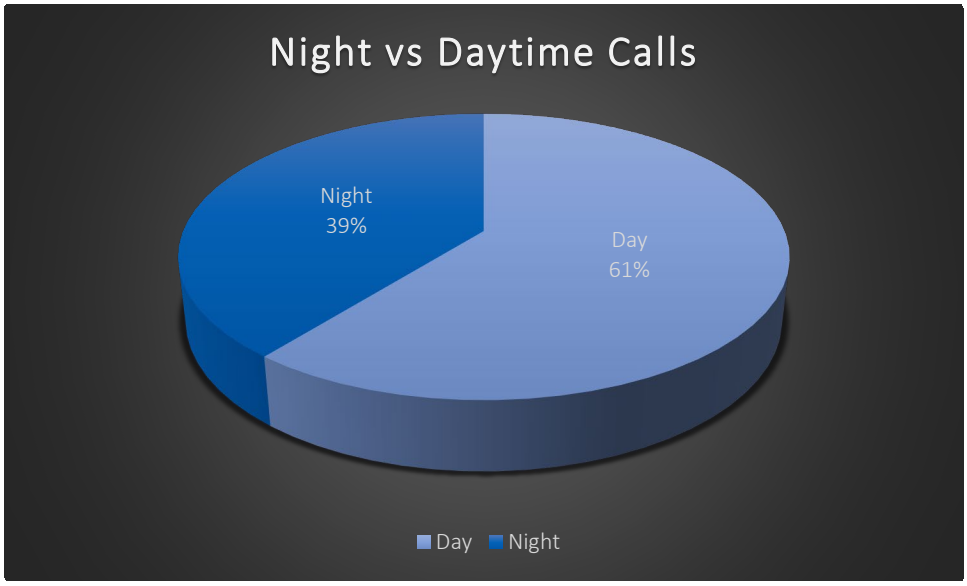


The busiest day of the week was Thursday with 13 calls for service:

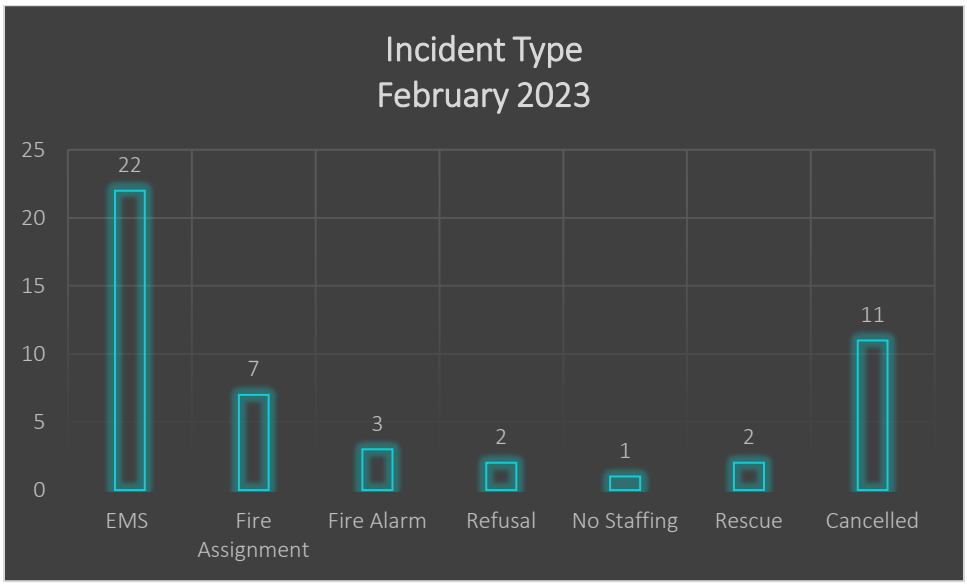


Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	**TOTAL**
4	2	8	7	13	8	9	**51**

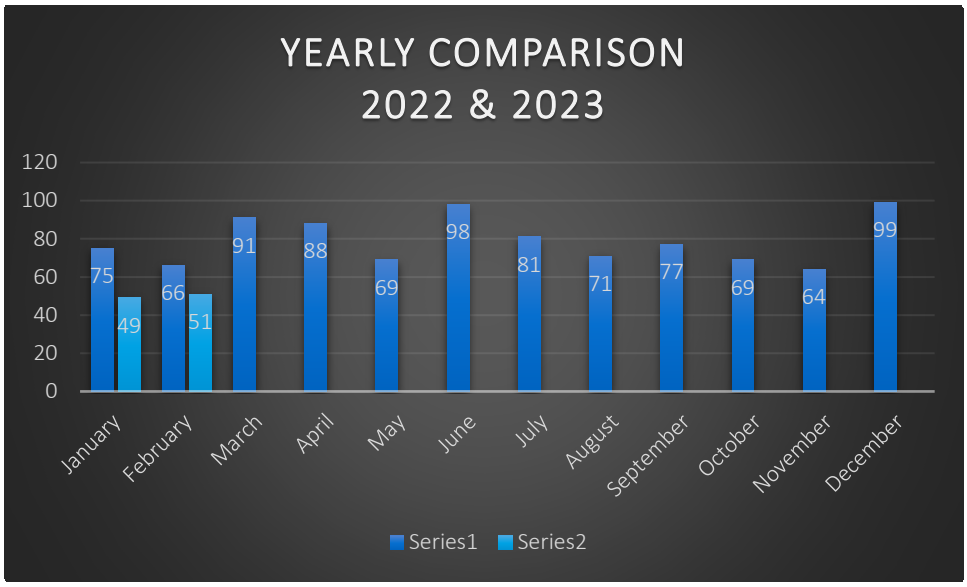
31 calls were during the day shift, between 06:00 hours (6:00 AM) and 18:00 hours (6:00 PM). 20 calls were during the night shift, between 18:00 hours (6:00 PM) and 06:00 hours (6:00 AM):



The "Incident Type" of calls was predominately EMS related.



February 2023 had 15 less calls for service than February 2022.



City of Polk City, Iowa

City Council Agenda Communication

Date: March 13, 2023 City Council Meeting
To: Mayor Steve Karsjen & City Council
From: Jason Thraen, Parks & Recreation Director

Subject: **Parks & Recreation Department Updates for February 2023**

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1. Staff continued planning for Summer 2023. The brochure was available starting Wednesday, March 1st. Registration for Polk City residents opened Monday, March 6th at 8am. Registration for non-residents will open Monday, March 13th at 8am.

2. Staff attended IPRA Leadership Forum in Ankeny on February 1st. Topics included *Launching Strategic Deployment Within Your Team* and *Motivating Team Members & Developing and Coaching Others*.

3. Staff met with playground consultants to discuss the condition of the Town Square playground equipment and potential replacement ideas.

4. February programming included Senior Social Hour, Adult Yoga, and Youth Dodgeball.

5. Sports Complex baseball/softball fields had 0 reservations in February. 0 total field reservations in 2023.

6. Miller Park Shelter House had 1 private rental in February. 3 total rentals in 2023.

City of Polk City, Iowa

City Council Agenda Communication

Date: March 13, 2023
To: Mayor, City Council, & City Manager
From: Karla Hogrefe – Fire Chief
Subject: Staffing for Adequate Fire and Emergency Response (SAFER) Grant

---

BACKGROUND: The Fire Department would like to apply for the Staffing for Adequate Fire and Emergency Response (SAFER) Grant through FEMA to assist with hiring our third full-time FF/Paramedic.

The objectives of the SAFER Program are to assist local fire departments with staffing and deployment capabilities to respond to emergencies and ensure that communities have adequate protection from fire and fire-related hazards.

The period of performance for applications funded under the Hiring Activity is 36 months.

ALTERNATIVES: N/A

FINANCIAL CONSIDERATIONS: If we receive this grant, we can hire our next full-time FF/Paramedic with this money and will not be responsible for the funding until after 36 months of the hire date. We are also seeking assistance from a grant writer, who has experience writing SAFER and has a high percentage of success. We plan to incorporate the grant writing fee of $1,300.

RECOMMENDATION: Approve the Fire Department to apply for the SAFER Grant. The grant closes on March 17, 2023.

RESOLUTION NO. 2023-33

A RESOLUTION GIVING AUTHORIZATION TO APPLY FOR SAFER GRANT THROUGH FEMA

WHEREAS, the City of Polk City Fire Department is desirous to apply for the Staffing for Adequate Fire and Emergency Response (SAFER) Grant through FEMA; and

WHEREAS, this funding would assist with hiring the Department's third full-time FF/Paramedic covering payroll expenses for 36 months from hire date and the $1300 grant writing fee; and

WHEREAS, the objectives of the SAFER Program are to assist local fire departments with staffing and deployment capabilities to response to emergencies and ensure that communities have adequate protection from fire and fire related hazards.

NOW, THEREFORE BE IT RESOLVED, by the City Council of the City of Polk City, Iowa to authorize application to for the SAFER Grant through FEMA.

PASSED AND APPROVED the 13 day of March 2023.

_____
Steve Karsjen, Mayor

Attest:

_____
Jenny Coffin, City Clerk

Polk City Water Department

Monthly Report

Month Feb **Year** 2023

Total Water Pumped 11,458,840 **Gallons**
Monthly Daily Avg 409,244 **Gallons**

Testing Results

- **SDWA Bacteriological Coliform Analysis** absent **University Hygienic Lab.**
  Fecal Coliform Analysis- Sample incubated 35c for 48 hrs then examine for gas production. Gas production verifies presence of fecal coliform organisms.

- **Fluoride Analysis** .3 **University Hygienic Lab.**
  A fluoride concentration of approx. 1mg/l in drinking water effectively reduces dental caries without harmful effects on health. MCL for fluoride is 4.0 mg/l.
  Fluoride at Plant- Monthly Average .62 **mg/l Polk City Lab.**
  Fluoride in System- Monthly Average .61 **mg/l Polk City Lab.**

- **Chlorine Free At Plant- Monthly Average** 1.61 **mg/l Polk City Lab.**
  Chlorine Total at plant- Monthly Average 3.60 **mg/l Polk City Lab.**
  Chlorine Free in System- Monthly Average .71 **mg/l Polk City Lab.**
  Chlorine Total in System- Monthly Average 1.05 **mg/l Polk City Lab.**
  Chlorine requirement is the quantity of chlorine that must be added to H2O to achieve complete disinfection of pathogens and protozoa. Chlorine residuals will vary widely depending on organic loading. We also use chlorine to oxidize iron prior to filtration.

- **Iron Raw Water- Monthly Average** 5.96 **mg/l Polk City Lab.**
  Iron Finish Water- Monthly Average .05 **mg/l Polk City Lab.**
  Iron System Water- Monthly Average .05 **mg/l Polk City Lab.**
  Iron occurs in rocks and minerals in the earth's crust. It's the 4th most abundant element respectively. Iron has no effect on human health; its main objection is aesthetics. Concentrations of Iron in finish H2O should be between 0.03-0.06mg/l.

- **Manganese Raw Water- Monthly Average** 0.283 **mg/l Polk City Lab.**
  Manganese Finish Water- Monthly Average 0.145 **mg/l Polk City Lab.**
  Manganese System Water- Monthly Average 0.077 **mg/l Polk City Lab.**
  Manganese also occurs in rocks and the earth's crust. It is the 7th most abundant element. Manganese is extremely difficult to remove. Concentrations of Manganese in finish H2O should not exceed 0.05mg/l or black staining of plumbing fixtures may occur. No effect on human health.

- **pH Raw Water Monthly Average** 7.5 **mg/l Polk City Lab.**
  pH Finish Water-Monthly Average 7.5 **mg/l Polk City Lab.**
  pH System Water- Monthly Average 8.2 **mg/l Polk City Lab.**
  pH scale ranges from 0-14 with 7 being considered neutral. Below 7 becomes corrosive to plumbing, above 7 tends to deposit minerals in plumbing. We add caustic soda to maintain proper pH, which should range between 7.5-7.9 in finish water.

Total Tests Preformed- Polk City Lab_____ Total Hours to perform tests_____

RESOLUTION 2023-02L

A RESOLUTION HIRING CANDIDATES FOR LIBRARY PAGES FOR THE POLK CITY, IOWA LIBRARY

WHEREAS, the Polk City Community Library has an established positions for Library Pages; and

WHEREAS, there are currently Library Page positions vacant; and

WHEREAS, required advertising and vetting of candidates has been completed;

NOW, THEREFORE, BE IT RESOLVED, the Board of Trustees of the Polk City Community Library recommends hiring Elena Fowle with a start date determined upon a successful completion of required background checks at a starting wage of $10.00 per hour.

PASSED AND APPROVED the 9th day of March 2023.

Lisa England, Library Board President

ATTEST:

Jamie Noack, Library Director

AGENDA FOR POLK CITY LIBRARY BOARD MEETING
Polk City Community Library
1500 W. Broadway, Polk City, IA
Thursday, March 9, 2023 at 12:00 pm

I. Call to order-President England called the meeting to order at 12:10 pm

Board Members Present:	Rod Bergren, Lisa England, Sara Olson
Board Members Absent:	Corey Hooder, Angie Conley
Library Director Present:	Jamie Noack
Guest Present:	None

II. Approval of the agenda

MOTION: A motion was made byRod Bergren and seconded by Sara Olson to approve the Meeting Agenda.

MOTION PASSED unanimously

III. Agenda Items

1. Approve Resolution 2023-02L Hiring of Library Page

MOTION: A motion was made by Sara Olson and seconded by Rod Bergren to approve Resolution 2023-02L

MOTION PASSED unanimously

IV. Adjourn

MOTION: A motion was made by Rod Bergren and seconded by Sara Olson to adjourn the meeting at 12:12 pm.

MOTION PASSED unanimously

Next Meeting Monday, April 3, 2023

Mission Statement: The Polk City Community Library provides a place where all can meet, learn, and grow.

SITE PLAN REVIEW

Date: March 9, 2023

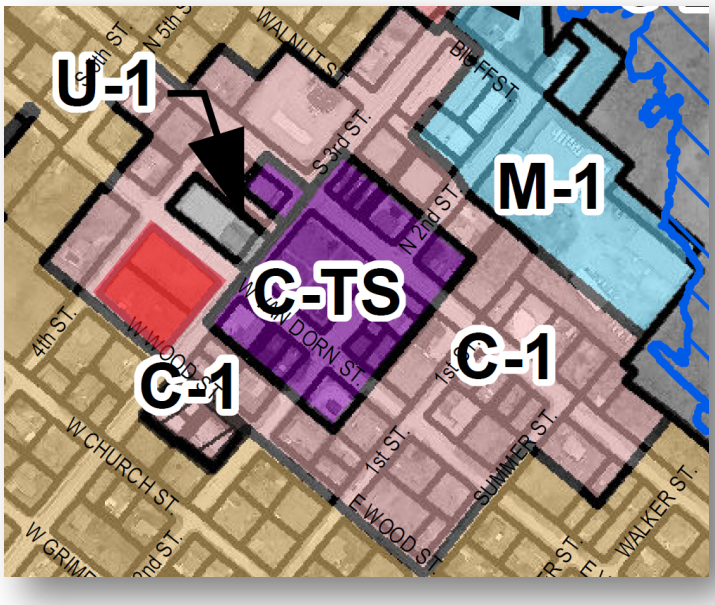
Prepared by: Kathleen Connor
Travis Thornburgh, P.E.

Project: Polk City New City Hall/ Community Center

Project No.: 123.0001.01

GENERAL INFORMATION:

Owner/Applicant:	City of Polk City
Requested Action:	Approval of Site Plan
Location	214 S/ 3rd Street; south of current City Hall
Size:	1.01 acres
Current Zoning:	C-1 Central Business District
Proposed Zoning:	U-1 Public Utility District
Proposed Use:	Community Room /Council Chambers And City Offices



PROJECT DESCRIPTION:

The City of Polk City proposes construction of a two story, 12,162 square feet City Hall/Community Center building on the city block shaded in red above. The intended use of the first floor of the proposed building will be used as a Community Center and Council Meeting assembly area, while the second floor will be used to house administrative offices and meeting rooms for elected officials and staff. The building also includes public restrooms with direct exterior access to serve the Polk City Square.

As part of the building construction, a parking lot will be constructed on the south and west sides of the building and will provide 50 parking stalls for the proposed facility. The proposed facility will meet parking requirements based on the first-floor community center use and second floor office space.

The site will provide underground detention to accommodate storm water runoff that will connect to the existing storm sewer intakes along S. 3rd Street and will outflow to the existing Polk City storm sewer system.

The site plan includes bike racks on the north side of the building. Landscaping includes a variety of trees and will provide headlight screening along Wood Street and S. 4th Street to screen the proposed

parking stalls from the public rights-of-way. The site plan proposed a 5' sidewalk in the base bid and an expanded 10' trail as an additive bid alternate along S. 3rd Street and a 5' sidewalk along Van Dorn Street. The City will include sidewalk along S. 4th Street and Wood Street as additive bid alternatives but will be obligated to install these sidewalks when other sidewalks are constructed in the area if these sidewalks are not constructed as part of this project. Additional bid alternatives include a large patio area west of the building and an additional bike rack on the northeast corner of the site, near Polk City Square.

REVIEW COMMENTS: The Site Plan has been revised to address staff's review comments.

RECOMMENDATION:

Staff recommends approval of the Site Plan for Polk City New City Hall/Community Center, subject to the following:

1. Approval of the rezoning of this property from C-1 Central Business District to U-1 Public Utility District.
2. City Council approval of a Plat of Survey to consolidate the New City Hall/Community Center parcels into one property to be known as 200 S. 4th Street, Polk City, Iowa.

RESOLUTION NO. 2023-34

A RESOLUTION APPROVING A PLAT OF SURVEY FOR PARCEL NO. 2023-42

WHEREAS, Snyder & Associates, Inc., on behalf of the City of Polk City has submitted a Plat of Survey, Parcel No. 2023-42; and

WHEREAS, the intent of this Survey is to consolidate the new City Hall/Community Center parcels into one property to be known as 200 S. 4th Street;

WHEREAS, the City Attorney and City Engineer have reviewed the Plat of Survey and legal documents and recommend approval of same.

NOW, THEREFORE, BE IT RESOLVED, the City Council of the City of Polk City, Iowa, hereby approves the Plat of Survey for Parcel No. 2023-42.

PASSED AND APPROVED the 13 day of March 2023.

_____
Steve Karsjen, Mayor

ATTEST:

_____
Jenny Coffin, City Clerk

INDEX LEGEND

SURVEYOR'S NAME / RETURN TO:
ERIN D. GRIFFIN
SNYDER & ASSOCIATES, INC.
2727 SW SNYDER BOULEVARD
ANKENY, IOWA 50023
515-964-2020
egriffin@snyder-associates.com
SERVICE PROVIDED BY:
SNYDER & ASSOCIATES, INC.
SURVEY LOCATED:
BLOCK 13
TOWN OF POLK CITY
SEC. 01-80-25
REQUESTED BY:
CITY OF POLK CITY

PLAT OF SURVEY

PARCEL 2023-42 DESCRIPTION

BLOCK 13, TOWN OF POLK CITY, AN OFFICIAL PLAT, NOW INCLUDED IN AND FORMING A PART OF THE CITY OF POLK CITY, POLK COUNTY, IOWA.

AREA

1.06 ACRES (45,969 SF)

DATE OF SURVEY

07/16/2022

OWNER

CITY OF POLK CITY
POB 426
POLK CITY, IA 50226-0426

LEGEND

FEATURES	FOUND	SET
Section Corner	▲	△
1/2" Rebar, Cap # 19710 w/Yellow Plastic Cap (Unless Otherwise Noted)	●	⬡
ROW Marker	■	□
ROW Rail	H	H
Platted Distance	P	
Measured Bearing & Distance	M	
Recorded As	R	
Deed Distance	D	
Calculated Distance	C	
Centerline		
Section Line		
1/4 Section Line		
1/4 1/4 Section Line		
Easement Line		

LICENSED PROFESSIONAL LAND SURVEYOR
ERIN D. GRIFFIN
19710
IOWA

I hereby certify that this land surveying document was prepared and the related survey work was performed by me or under my direct personal supervision and that I am a duly licensed Professional Land Surveyor under the laws of the State of Iowa.

Erin D. Griffin, PLS — 03/09/2023 Date

License Number 19710

My License Renewal Date is December 31, 2023

Pages or sheets covered by this seal:
Sheets 1 and 2, of 2

BLOCK 13, TOWN OF POLK CITY

PLAT OF SURVEY

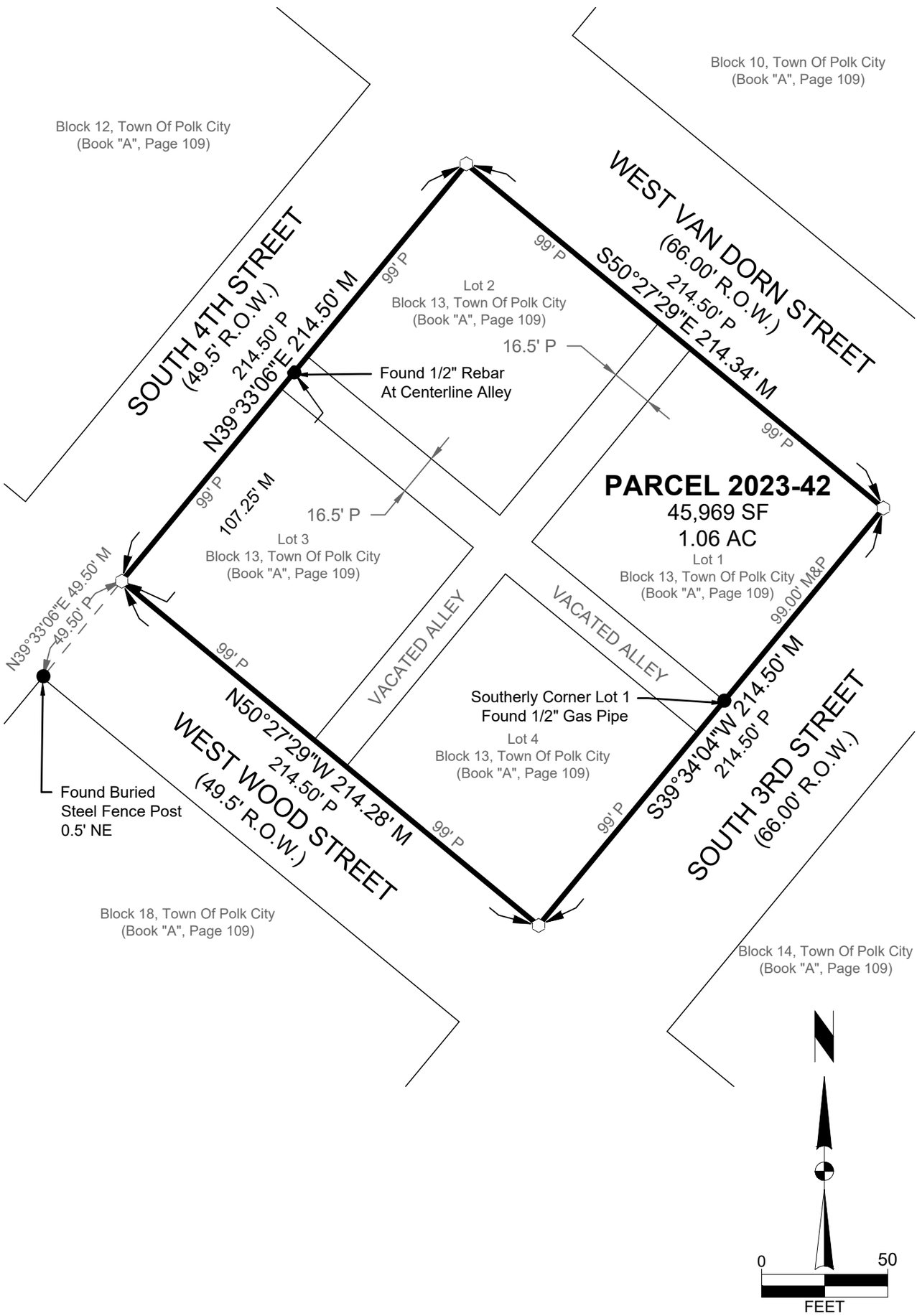
SNYDER & ASSOCIATES

2727 S.W. SNYDER BLVD.
ANKENY, IA 50023 (515) 964-2020

SHEET 1 OF 2
PN: 122.0001.01E
T-R-S:80N-25W-01
DATE: 02/23/2023
PM/TECH: EDG/AJD

V:\Projects\2022\122.0001.01E\CADD\POS_1220001E.dwg

PLAT OF SURVEY



BLOCK 13, TOWN OF POLK CITY

PLAT OF SURVEY

SNYDER & ASSOCIATES

2727 S.W. SNYDER BLVD.
ANKENY, IA 50023 (515) 964-2020

SHEET 2 OF 2
PN: 122.0001.01E
T-R-S:80N-25W-01
DATE: 02/23/2023
PM/TECH: EDG/AJD

V:\Projects\2022\122.0001.01E\CADD\POS_1220001E.dwg

RESOLUTION NO. 2023-35

A RESOLUTION APPROVING THE SITE PLAN FOR CITY HALL/COMMUNITY CENTER

WHEREAS, FEH Design has submitted a Site Plan for a new City Hall/Community Center to be located at 200 S 4th Street; and

WHEREAS, on February 20, 2023 the Polk City Planning & Zoning Commission met and recommended approval of the Site Plan, subject to completion of the City Engineer's review comments and recommendations being satisfactorily addressed; and

WHEREAS, the City Engineer has reviewed the Site Plan and accompanying documents and recommends Council approval.

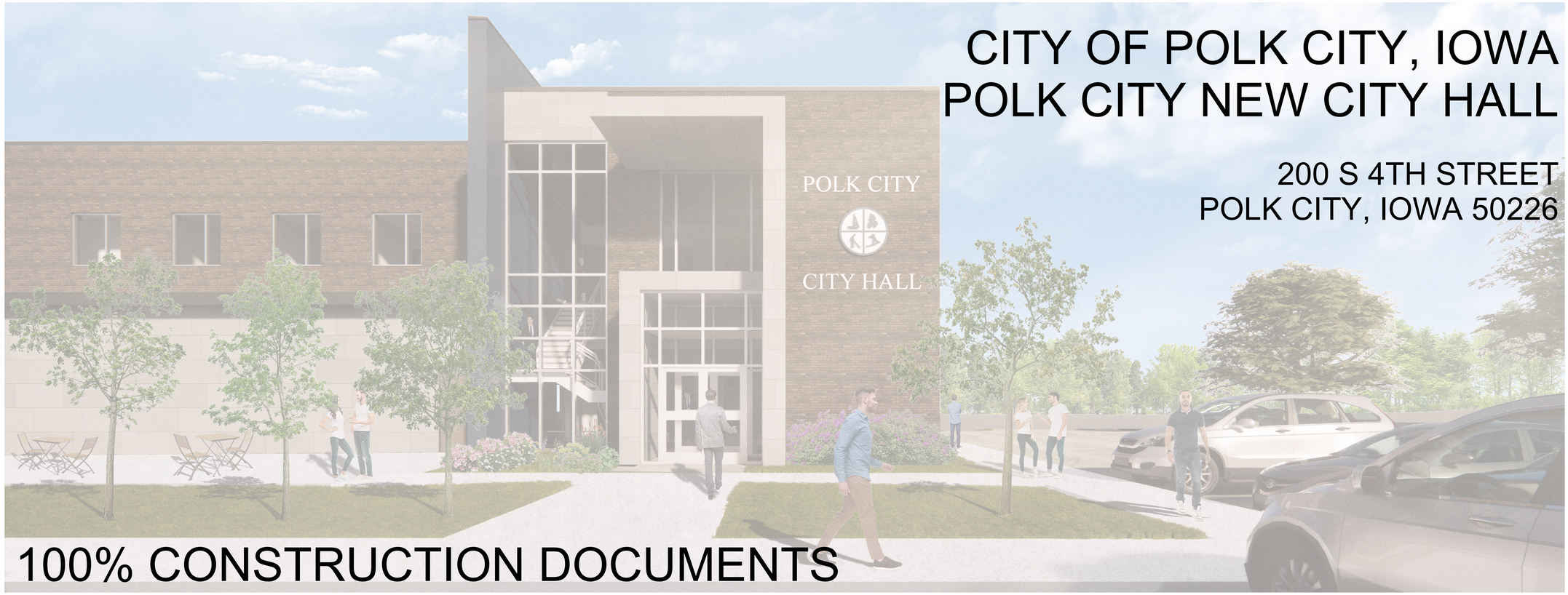
NOW, THEREFORE, BE IT RESOLVED, the City Council of the City of Polk City, Iowa hereby accepts the recommendations of the Planning and Zoning Commission, City Engineer and deems it appropriate to approve the Site Plan for City Hall/Community Center.

PASSED AND APPROVED the 13 day March 2023.

_____
Steve Karsjen, Mayor

ATTEST:

_____
Jenny Coffin, City Clerk



CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL

200 S 4TH STREET
POLK CITY, IOWA 50226

100% CONSTRUCTION DOCUMENTS

VICINITY MAP
NOT TO SCALE

CONTACT INFORMATION

ARCHITECT
FEH DESIGN
604 E. GRAND AVE.
DES MOINES, IA 50309

PH: (515)288-2000

CORY W. SHARP 7378 IOWA LICENSED ARCHITECT

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE DATE
PRINTED OR TYPED NAME Cory W. Sharp, A.I.A.
LICENSE NUMBER 7378
MY LICENSE RENEWAL DATE IS JUNE 30, 2023
PAGES OR SHEETS COVERED BY THIS SEAL:

STRUCTURAL
FEH DESIGN
604 E. GRAND AVE.
DES MOINES, IOWA 50309

PH: (563)588-2000

LICENSED PROFESSIONAL ENGINEER CHRISTOPHER L. MARTIN 25714 IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature Date
Printed or typed name Christopher L. Martin, P.E.
License number 25714
My license renewal date is December 31, 2024
Pages or sheets covered by this seal:

MECHANICAL
IMEG
2882 106TH ST
URBANDALE, IA 50322

PH: (515)334-9906

LICENSED PROFESSIONAL ENGINEER DAVID C. INGHRAM 12567 IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature Date
Printed or typed name DAVID C. INGHRAM, P.E., P.E.
License number 12567
My license renewal date is December 31, 2024
Pages or sheets covered by this seal:

ELECTRICAL
IMEG
2882 106TH ST
URBANDALE, IA 50322

PH: (515)334-9906

LICENSED PROFESSIONAL ENGINEER KRISTEN L. SPINA 21081 IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature Date
Printed or typed name KRISTEN L. SPINA, P.E.
License number 21081
My license renewal date is December 31, 2024
Pages or sheets covered by this seal:

CIVIL
SNYDER & ASSOCIATES
2727 SW SYNDER BLVD
ANKENY, IA 50023

PH: (515)964-2020

LICENSED PROFESSIONAL ENGINEER JASON A. LEDDEN P24117 IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature Date
Printed or typed name
License number P24117
My license renewal date is December 31, 2024
Pages or sheets covered by this seal:

LANDSCAPE
SNYDER & ASSOCIATES
2727 SW SYNDER BLVD
ANKENY, IA 50023

PH: (515)964-2020

STATE OF IOWA ALEX J. MCKINNEY LANDSCAPE ARCHITECT NO. 715 PROFESSIONAL LANDSCAPE ARCHITECT

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE DATE
PRINTED OR TYPED NAME Alex J. McKinney
LICENSE NUMBER 715
MY LICENSE RENEWAL DATE IS JUNE 30, 2024
PAGES OR SHEETS COVERED BY THIS SEAL:

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AG1.2 BUILDING CODE PLAN

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T5.0 TECHNOLOGY DIAGRAMS
T5.1 TECHNOLOGY DIAGRAMS
T6.0 TECHNOLOGY SCHEDULES
T6.1 TECHNOLOGY SCHEDULES

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055
FEHDESIGN.COM

© FEH DESIGN

IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
TITLE SHEET

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
TS

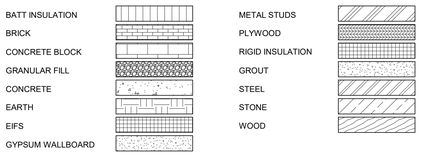
C:\Users\corys\Documents\2022213.02 Polk City New City Hall CF R22_Revised_corysharp.rvt

Fri, 2/3/2023 3:13:17 PM

ARCHITECTURAL GENERAL NOTES

1. THESE CONSTRUCTION DRAWING SHEETS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT MANUAL.
2. WHEN DRAWINGS AND PROJECT MANUAL CONFLICT, BIDDER SHALL REQUEST WRITTEN CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING. IF CLARIFICATION IS NOT OBTAINED PRIOR TO BIDDING, THE FOLLOWING SHALL BE USED TO DETERMINE SCOPE OF BID: MATERIAL SIZE AND QUANTITY SHALL BE DETERMINED BY DRAWINGS, QUALITY IS DETERMINED BY PROJECT MANUAL. FINAL DETERMINATION SHALL BE BY THE ARCHITECT OR ENGINEER PRIOR TO CONSTRUCTION OR FABRICATION.
3. ERRORS ARE TO BE REPORTED IMMEDIATELY TO THE ARCHITECT.
4. STRUCTURAL DRAWINGS GOVERN FOR SIZES, SPACING, AND CONNECTIONS OF ALL STRUCTURAL MATERIALS AND MEMBERS. IN THE CASE OF DISCREPANCIES, CONSULT WITH THE ARCHITECT/ENGINEER BEFORE COMMENCEMENT OF WORK.
5. INSTALL VAPOR BARRIERS DIRECTLY BELOW ALL CONCRETE INTERIOR SLAB-ON-GRADE U.O.N. OR A WATERPROOFING MEMBRANE IS INDICATED.
6. REFER TO STRUCTURAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF FLOOR OPENINGS. COORDINATE ADDITIONAL OPENINGS REQUIRED WITH STRUCTURAL ENGINEER.
7. THE CONTRACTOR SHALL ARRANGE FOR THE PREMISES TO BE MAINTAINED IN AN ORDERLY MANNER THROUGHOUT THE COURSE OF THE JOB. MAINTAIN CLEANLINESS THROUGHOUT - DO NOT BLOCK EXITS, ENTRANCES, LOBBIES, CORRIDORS, ETC. PROTECT AREA FROM DAMAGE WHICH MAY OCCUR FROM DEMOLITION DUST, WATER, ETC. PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC. AS REQUIRED TO PROTECT THE PUBLIC DURING THE PERIOD OF CONSTRUCTION. DAMAGE OF EXISTING STRUCTURES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFTOVER MATERIALS, DEBRIS, TOOLS, AND EQUIPMENT INVOLVED AT THE CONCLUSION OF THE INSTALLATION. THE CONTRACTOR SHALL LEAVE ALL AREAS CLEAN. ALL FIXTURES AND REUSABLE MATERIALS TO BE REMOVED ARE TO BE STORED OR DISPOSED OF AS PER OWNERS INSTRUCTIONS.
9. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT WORKERS FROM INJURY OR EXPOSURE TO DANGEROUS MATERIALS DURING THE WORK BY THE CONTRACTOR, AS PER OSHA REGULATIONS AND FIRE-WATCH AS PER THE SUPPLEMENTAL CONDITIONS IN THE PROJECT MANUAL.
10. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT / ENGINEER IF ADDITIONAL DIMENSIONS ARE REQUIRED OR DISCREPANCIES DISCOVERED.
11. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SHOP DRAWING APPROVAL AND CONSTRUCTION. SEE PROJECT MANUAL WHERE FIELD VERIFICATION CANNOT BE OBTAINED PRIOR TO SHOP DRAWING APPROVAL.
12. DIMENSIONS ARE ACTUAL. DIMENSIONS FOR MASONRY WALLS ARE GIVEN FROM FACE TO FACE OF WALL. DIMENSIONS FOR STUD WALL IS TO FACE OF FINISH WALL OR TO CENTER OF WALL, NOT CENTER OF STUD.
13. ABBREVIATIONS AND MATERIAL REPRESENTATIONS ON ARCHITECTURAL DRAWINGS ARE SHOWN ON 'ABBREVIATIONS' AND 'MATERIAL LEGEND' TABLES - THIS SHEET.
14. SEE TYPICAL MOUNTING HEIGHTS FOR EQUIPMENT AND FIXTURES THIS SHEET.
15. FOR ADDITIONAL PLAN INFORMATION REFER TO PARTIAL ENLARGED PLANS OR DETAILS AS NOTED ON THE DRAWINGS.
16. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ANY ADDITIONAL STEEL PIPE BOLLARDS REQUIRED.
17. PROVIDE FINISHED END OR FRONT PANELS ON ALL SURFACES OF CASEWORK THAT ARE EXPOSED TO VIEW.

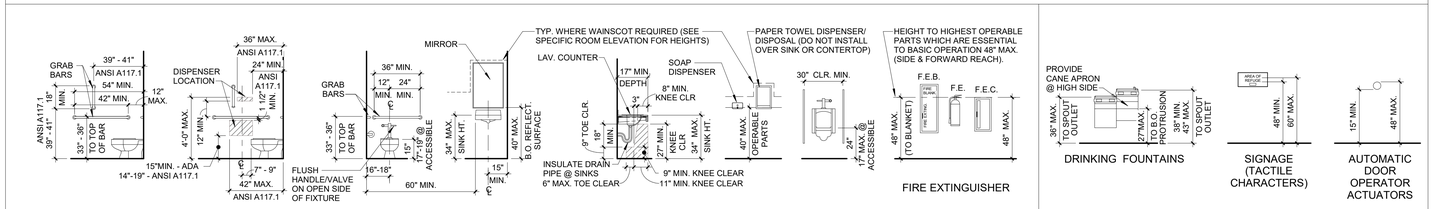
MATERIAL LEGEND



ABBREVIATIONS: ARCHITECTURAL DRAWING LIST, SOME DESIGNATIONS MAY NOT BE APPLICABLE

A	AB	ANCHOR BOLT
	A/C	AIR CONDITIONING
	ACT	ACOUSTICAL CEILING TILE
	ADA	AMERICANS WITH DISABILITIES ACT
	ADJ	ADJACENT
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AGG	AGGREGATE
	AHU	AIR HANDLING UNIT
	ALT	ALTERNATE
	AL	ALUMINUM
	ANC	ANCHOR
	ANOD	ANODIZED
	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
	APC	ACOUSTICAL PANEL CEILING
	APPROX	APPROXIMATELY
	ARCH	ARCHITECT
	AS REQ'D	AS REQUIRED
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
	ATTEN	ATTENUATION
B	BD	BOARD
	BIT	BITUMINOUS
	BLDG	BUILDING
	BLK	BLOCK
	BLKG	BLOCKING
	BM	BEAM
	BN	BULLNOSE
	BO	BOTTOM OF
	BOC	BOTTOM OF CONCRETE
	BOT	BOTTOM
	BRG	BEARING
	BUR	BUILT-UP ROOFING
C	CAB	CABINET
	CB	CEMENT BOARD
	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
	CG	CORNER GUARD
	CH BD	CHALK BOARD
	CI	CAST IRON
	CIP	CAST-IN-PLACE
	CJ	CONTROL JOINT
	CLG	CEILING
	CLR	CLEAR
	CMT	CERAMIC MOSAIC TILE
	CMU	CONCRETE MASONRY UNIT
	CNTR	COUNTER
	CO	CLEAN OUT
	COL	COLUMN
	CONC	CONCRETE
	CONST	CONSTRUCTION
	CONT	CONTINUOUS
	COORD	COORDINATE
	CORR	CORRIDOR
	CP	COMPOSITE PANEL
	CPT	CARPET
	CS	CONCRETE SEALED
	CSK	COUNTERSINK
	CT	CERAMIC TILE
	CTR	CENTER, CENTERED
	CUH	CABINET UNIT HEATER
	CW	CURTAIN WALL
D	DBL	DOUBLE
	DEMO	DEMOLITION
	DEPT	DEPARTMENT
	DF	DRINKING FOUNTAIN
	DIA	DIAMETER
	DIAG	DIAGONAL
	DIM	DIMENSION
	DISP	DISPENSER
	DN	DOWN
	DR	DOOR
	DS	DOWNSPOUT
	DTL	DETAIL
	DW	DISHWASHER
	DWG	DRAWING
	DWL	DOWEL
E	(E)	EXISTING
	EA	EACH
	EC	ELECTRICAL CONTRACTOR
	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
	EJ	EXPANSION JOINT
	ELEV	ELEVATION
	ELEC	ELECTRICAL
	EMERG	EMERGENCY
	ENAM	ENAMEL
	ENCL	ENCLOSURE
	EQ	EQUAL
	EQUIP	EQUIPMENT
	EVTR	ELEVATOR
	EXH	EXHAUST
	EXST	EXISTING
	EXP	EXPOSED
	EXT	EXTERIOR
F	FA	FIRE ALARM
	FCU	FAN COIL UNIT
	FD	FLOOR DRAIN
	FDN	FOUNDATION
	FE	FIRE EXTINGUISHER
	FEC	FIRE EXTINGUISHER CABINET
	FF	FACTORY FINISH
	FHC	FIRE HOSE CABINET
	FHMS	FLAT HEAD MACHINE SCREW
	FIN	FINISH
	FIXT	FIXTURE
	FLASH	FLASHING
	FLEX	FLEXIBLE
	FLUOR	FLUORESCENT
	FLR	FLOOR
	FOF	FACE OF FINISH
	FR	FRAME
	FRP	FIBERGLASS REINFORCED POLYESTER
	FT	FOOT
	FTG	FOOTING
	FURR	FURRING
	F.V.	FIELD VERIFY
G	G, GND	GROUND
	GA	GAUGE
	GALV	GALVANIZED
	GB	GYPSUM BOARD
	GB	GRAB BAR
	GC	GENERAL CONTRACTOR
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	GHM	GALVANIZED HOLLOW METAL
	GL	GLASS
	GWB	GYPSUM WALL BOARD
	GYP	GYPSUM
	GYP BD	GYPSUM BOARD
H	HB	HOSE BIB
	HC	HOLLOW CORE
	HDWD	HARDWOOD
	HDWR	HARDWARE
	HM	HOLLOW METAL
	HORIZ	HORIZONTAL
	HR	HOUR
	HSS	HOLLOW STRUCTURAL STEEL
	HT	HEIGHT
	HTG	HEATING
	HTR	HEATER
	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
	HW	HOT WATER
I	ID	INSIDE DIAMETER
	IG	INSULATED GLASS
	IGHM	INSULATED GALVANIZED HOLLOW METAL
	IN	INCH
	INC	INCANDESCENT
	INSUL	INSULATED, INSULATION, INSULATING
	INT	INTERIOR
J	JAN	JANITOR
	JB	JUNCTION BOX
	JST	JOIST
	JT	JOINT
L	LAM	LAMINATE
	LAV	LAVATORY
	LGMF	LIGHT GAUGE METAL FRAMING
	LLV	LONG LEG VERTICAL
	LTG	LIGHTING
	LVL	LAMINATED VENEER LUMBER
	LVR	LOUVER
M	MACH	MACHINE
	MAH	MAXIMUM ATTAINABLE HEIGHT
	MAN	MANUAL
	MANUF	MANUFACTURER
	MAX	MAXIMUM
	MB	MARKER BOARD
	MC	MECHANICAL CONTRACTOR
	MECH	MECHANICAL
	MEMB	MEMBRANE
	MEZZ	MEZZANINE
	MFG	MANUFACTURER
	MH	MANHOLE
	MIL	MILLIMETER
	MIN	MINIMUM
	MISC	MISCELLANEOUS
	MO	MASONRY OPENING
	MRGB	MOISTURE RESISTANT GYPSUM BOARD
	MTC	EMPTY CONDUIT
	MTD	MOUNTED
	MTL	METAL
	MUL	MULLION
N	(N)	NEW
	N/A	NOT APPLICABLE
	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	NIC	NOT IN CONTRACT
	NOM	NOMINAL
	NTS	NOT TO SCALE
	NUM	NUMBER
O	OC	ON CENTER
	OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
	OFOI	OWNER FURNISHED, OWNER INSTALLED
	OH	OVERHEAD
	OPNG	OPENING
	OPP	OPPOSITE
	OTS	OPEN TO STRUCTURE
P	P BD	PARTICLE BOARD
	PA	PUBLIC ADDRESS
	PART	PARTIAL
	PC	PRE-CAST
	PCLN	PORCELAIN
	PJ	PANEL JOINT
	PL	PROPERTY LINE
	PLAM	PLASTIC LAMINATE
	PLAS	PLASTER
	PLT	PLATE
	PLYWD	PLYWOOD
	PNL	PANEL
	PNT	PAINT
	PR	PAIR
	PREFIN	PREFINISHED
	PRI	PRIMARY
	PSF	POUNDS PER SQUARE FOOT
	PSI	POUNDS PER SQUARE INCH
	PT	POINT
	PTN	PARTITION
	PVC	POLYVINYL CHLORIDE
	PWR	POWER
Q	QT	QUARRY TILE
R	R, RAD	RADIUS
	RA	RETURN AIR
	RB	RUBBER BASE
	RCP	REFLECTED CEILING PLAN
	RD	ROOF DRAIN
	REBAR	REINFORCING BAR
	REC	RECEPTACLE
	REF	REFRIGERATOR
	REFL	REFLECTED
	REFR	REFERENCE, REFER
	REINF	REINFORCING
	REQ'D	REQUIRED
	RESIL	RESILIENT
	RH	RANGE HOOD
	RJ	REVEAL JOINT
	RM	ROOM
	RND	ROUND
	RO	ROUGH OPENING
	RTU	ROOF TOP UNIT
	RV	ROOF VENT
S	SA	SUPPLY AIR
	SB	SPLASH BLOCK
	SC	SOLID CORE
	SCHED	SCHEDULE
	SD	SOAP DISPENSER
	SECT	SECTION
	SH V	SHEET VINYL
	SHR	SHOWER
	SHT	SHEET
	SHTG	SHEETING
	SIM	SIMILAR
	SQ	SQUARE
	SS	STAINLESS STEEL
	STD	STANDARD
	STL	STEEL
	STN	STAIN
	STOR	STORAGE
	STRUC	STRUCTURAL
	SURF	SURFACE
	SUSP	SUSPENDED
	SYM	SYMMETRICAL
T	T	TEMPERED
	T & G	TONGUE & GROOVE
	TB	TACK BOARD
	TEL	TELEPHONE
	TELECOM	TELECOMMUNICATIONS
	TERR	TERRAZZO
	TF	TOP FLANGE
	THRU	THROUGH
	TO	TOP OF
	TOB	TOP OF BEAM
	TOC	TOP OF CONCRETE
	TOF	TOP OF FOOTING
	TOS	TOP OF STEEL
	TPD	TOILET PAPER DISPENSER
	TRN	TRANSPARENT
	TS	TUBE STEEL
	T'STAT	THERMOSTAT
	TV	TELEVISION
	TYP	TYPICAL
U	UNF	UNIFORM
	UNO	UNLESS NOTED OTHERWISE
	UON	UNLESS OTHERWISE NOTED
	UPS	UNINTERRUPTIBLE POWER SUPPLY
	UR	URINAL
V	V	VOLTS
	VAV	VARIABLE AIR SUPPLY VOLUME
	VB	VINYL BASE
	VCT	VINYL COMPOSITION TILE
	VER	VERIFY
	VERT	VERTICAL
	VEST	VESTIBULE
	VSF	VINYL SHEET FLOORING
	VTR	VENT THROUGH ROOF
	VWC	VINYL WALL COVERING
W	W	WATTS
	W/	WITH
	W/O	WITHOUT
	WC	WATER CLOSET
	WD	WOOD
	WH	WATER HEATER
	WP	WATERPROOF
	WR	WATER RESISTANT
	WT	WEIGHT
	WW	WINDOW WALL
	WWF	WELDED WIRE FABRIC

ACCESSIBLE & STANDARD MOUNTING HEIGHTS - 2010 ADA STANDARD FOR ACCESSIBLE DESIGN AND ANSI A117.1



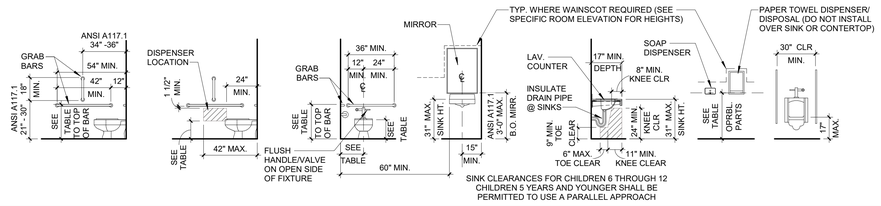
FIRE EXTINGUISHER

DRINKING FOUNTAINS

SIGNAGE (TACTILE CHARACTERS)

AUTOMATIC DOOR OPERATOR ACTUATORS

PLUMBING FIXTURES AND ACCESSORIES FOR ADULTS



SINK CLEARANCES FOR CHILDREN 6 THROUGH 12
CHILDREN 5 YEARS AND YOUNGER SHALL BE PERMITTED TO USE A PARALLEL APPROACH

NOTE:

REFERENCE ADA 2010 STANDARDS FOR ACCESSIBLE DESIGN FOR FURTHER INFORMATION

ELEVATIONS SHOWN ARE FOR MOUNTING LOCATIONS ONLY AND NOT FOR SPECIFIC ROOMS. SEE ELEVATIONS ELSEWHERE FOR SPECIFIC ROOM ELEVATIONS.

ALL DIMENSIONS ARE FROM FINISHED SURFACE.

CONSULT ARCHITECT IF DISCREPANCIES ARE DISCOVERED BETWEEN THESE DIMENSIONS AND DETAIL DIMENSIONS.

REFER TO PROJECT MANUAL FOR ACCESSORY MODEL NUMBERS.

REFER TO SECTION 22 & 26 OF THE PROJECT MANUAL FOR FURTHER REQUIREMENTS.

NOT ALL ITEMS SHOWN MAY BE APPLICABLE.

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
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OCONOMOWOC, WI (262) 968-2055
FEHDESIGN.COM

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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES

SHEET TITLE GENERAL NOTES AND LEGENDS

PROJECT TITLE CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO. DATE

PROJECT NUMBER 2022213.02

SHEET AG1.1

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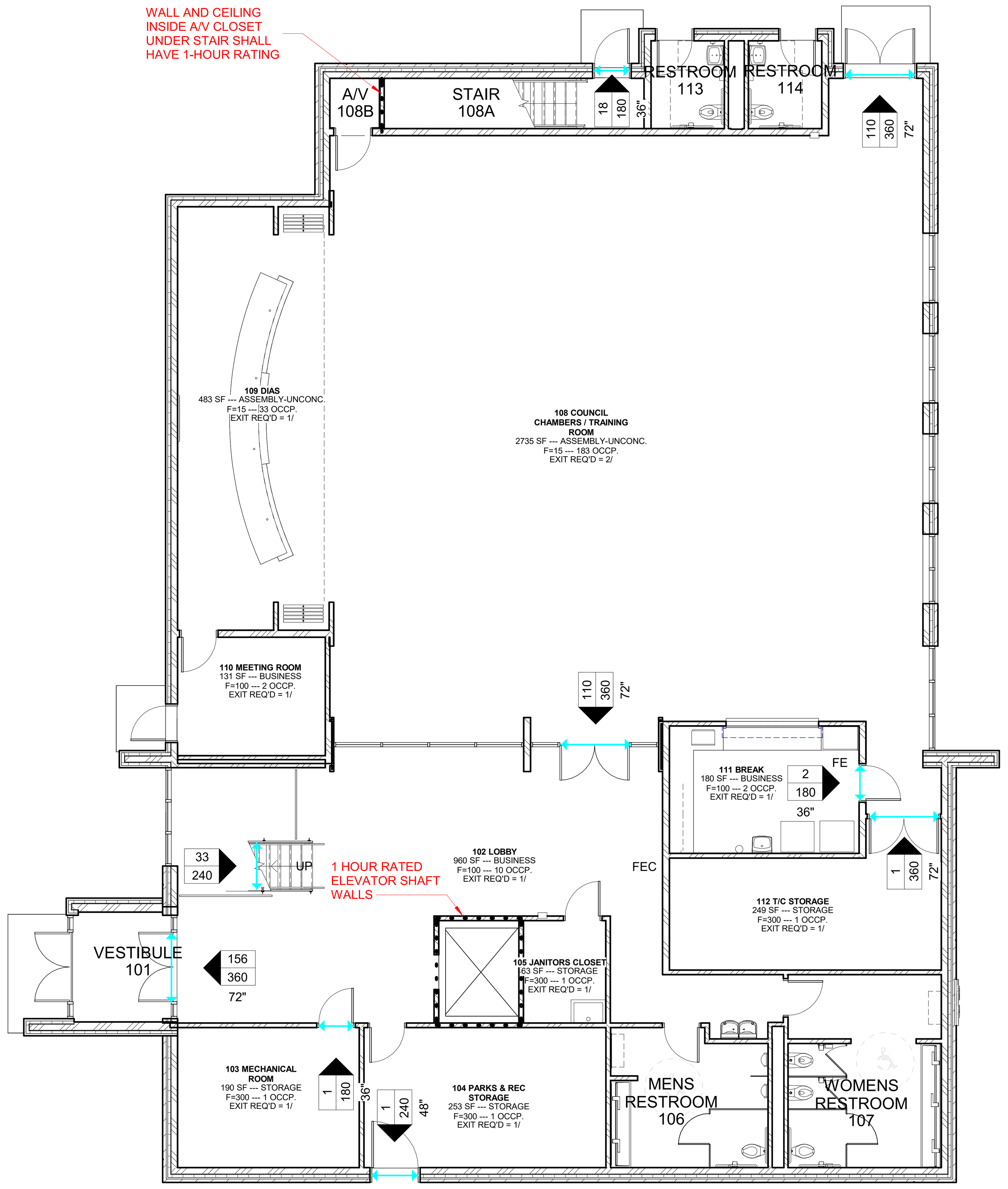
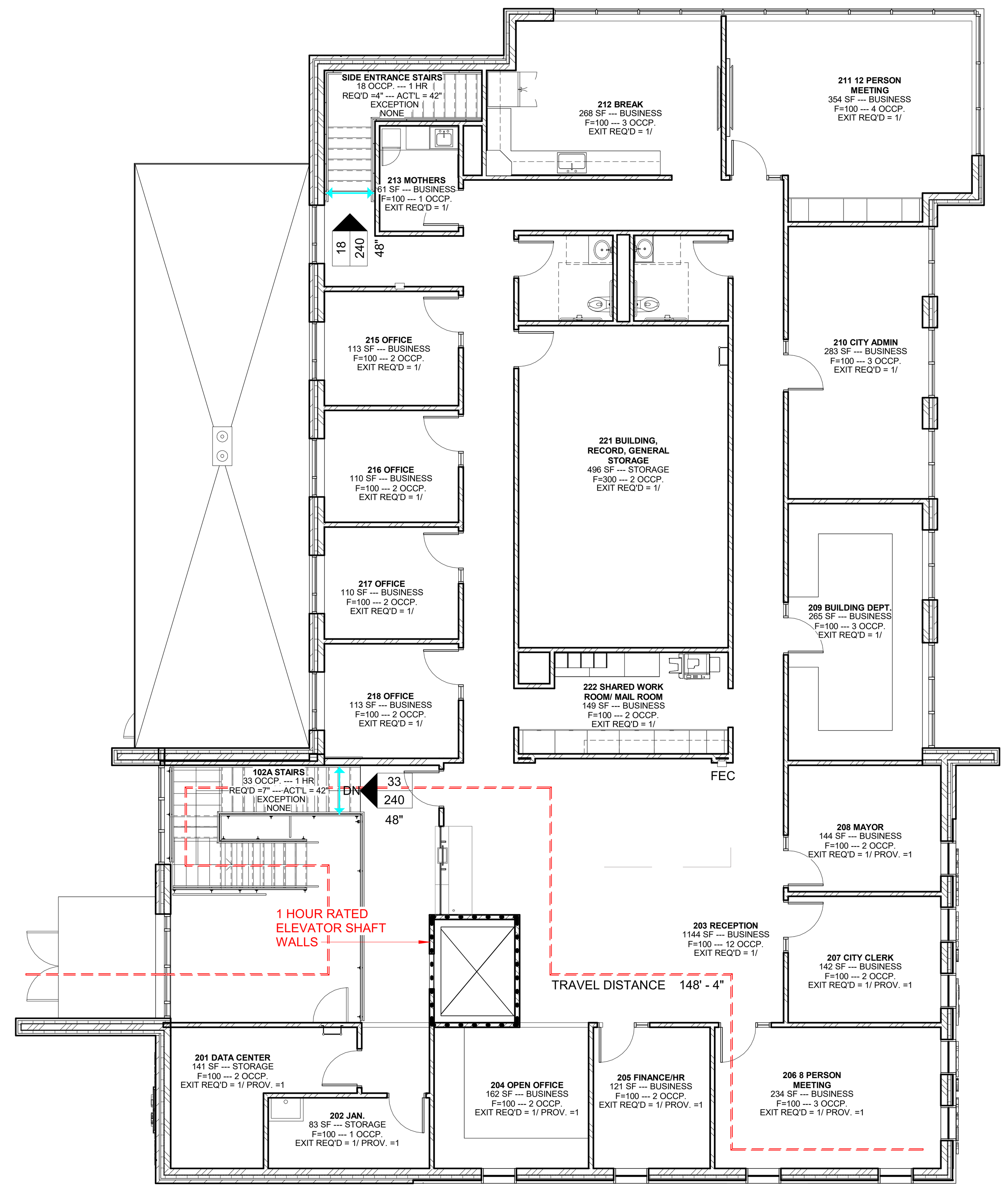


BUILDING CODE PLAN - MAIN LEVEL
1
SCALE: 1/8" = 1'-0"



BUILDING CODE PLAN - UPPER LEVEL
2
SCALE: 1/8" = 1'-0"

CODE INFORMATION

PROJECT DESCRIPTION:
PROJECT NAME: POLK CITY NEW CITY HALL
ADDRESS: 200 S 4TH STREET, POLK CITY, IA
PROPOSED USE: ASSEMBLY (CITY HALL CHAMBER) / OFFICE

APPLICABLE CODES:
2018 - POLK CITY (INTERNATIONAL) BUILDING CODE
2018 - POLK CITY (INTERNATIONAL) MECHANICAL CODE
2018 - POLK CITY (INTERNATIONAL) PLUMBING CODE
2018 - POLK CITY (INTERNATIONAL) FUEL GAS CODE
2018 - POLK CITY (INTERNATIONAL) ENERGY CODE
2018 - POLK CITY (INTERNATIONAL) EXISTING BUILDING CODE
2018 - INTERNATIONAL BUILDING CODE
THE PROVISIONS OF THE POLK CITY ELECTRICAL CODE SHALL APPLY TO THE INSTALLATION, ALTERATION,
REPAIR, AND REPLACEMENT OF ELECTRICAL SYSTEMS, INCLUDING EQUIPMENT, APPLIANCES, FIXTURES,
FITTINGS, AND APPURTENANCES. ALL REFERENCES IN THIS CODE TO NFPA 70 SHALL BE INTERPRETED TO REFER TO THE POLK CITY ELECTRICAL CODE."
2015 - POLK CITY (INTERNATIONAL) FIRE CODE
2010 - ADAAG

CODES/REGULATIONS UTILIZED IN DESIGN:
----- SEE CODES ABOVE -----

OCCUPANCY TYPE(CHAPTER 3)
TYPE A-3 / B OCCUPANCY

BUILDING HEIGHTS AND AREAS (CHAPTER 5)
BASIC ALLOWABLE
28,500 GROSS SQ.FT. (More restrictive A-3 occupancy.)
3 STORIES,
75'-0" HIGH ABOVE GRADE

PROPOSED BUILDING
11,951 GROSS SQ.FT.
GROUND LEVEL 6,518 SF
UPPER LEVEL 5,433 SF
2 STORY
31'-6" HIGH ABOVE GRADE
BUILDING PERIMETER = 376 FEET
BUILDING FRONTAGE = 30+ FEET
TYPE II-B, B - OCCUPANCY = IS LESS RESTRICTIVE THAN TYPE A-3 AT 69,500 SF.
TYPE II-B, A-3 OCCUPANCY = .75 X 28,500 = 21,375 + 28,500 = 49,875SF

TYPES OF CONSTRUCTION (CHAPTER 6)
TYPE II-B CONSTRUCTION

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)
PRIMARY STRUCTURAL FRAME -- 0 HOUR
BEARING WALLS
EXTERIOR -- 0 HOUR
INTERIOR --- 0 HOUR
NONBEARING WALLS AND PARTITIONS - EXTERIOR ------------------------ 0 HOUR
NONBEARING WALLS AND PARTITIONS - INTERIOR ------------------------- 0 HOUR
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS - 0 HOUR
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS --- 0 HOUR

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602)
X < 5FT 1 HOUR
5FT ≤ X < 10FT 1 HOUR
10FT ≤ X < 30FT 0 HOUR
X ≥ 30FT 0 HOUR

FIRE AND SMOKE PROTECTION FEATURES (CHAPTER 7)
EXTERIOR OPENING REQUIREMENTS (TABLE 705.8) - No Limit, separation greater than 30'.

FIRE PROTECTION SYSTEMS (CHAPTER 9)
FIRE ALARM REQUIRED-PROVIDED
FIRE ALARM CONTROL PANEL REQUIRED-PROVIDED
REMOTE ANNUNCIATOR PANEL REQUIRED-PROVIDED
SMOKE DETECTION REQUIRED-PROVIDED
HEAT DETECTION REQUIRED-PROVIDED
FIRE PUMP NOT REQUIRED-NOT PROVIDED
BACKUP POWER NOT REQUIRED-NOT PROVIDED
SUPPRESSION - STANDPIPES NOT REQUIRED-NOT PROVIDED
SUPPRESSION - AUTOMATIC SPRINKLER REQUIRED-PROVIDED
FIRE EXTINGUISHERS REQUIRED-PROVIDED: PER NFPA 10
TYPE I COMMERCIAL HOOD NOT APPLICABLE

MEANS OF EGRESS (CHAPTER 10)
1004 DESIGN OCCUPANT LOADS
TOTAL OCCUPANTS 285
1005.1 EGRESS WIDTH
MEANS OF EGRESS CAPACITY FACTOR = 57 INCH (1005.3.2)
1008 MEANS OF EGRESS ILLUMINATION
TO BE ILLUMINATED ALL TIMES (1008.2)
1009.1 ACCESSIBLE MEANS OF EGRESS
1 MOE = 1 REQUIRED
MORE THAN 2 MOE = NOT LESS THAN TWO REQUIRED
1010.1.1 WIDTH OF DOOR
MINIMUM CLEAR WIDTH OF 32 INCHES
1010.1.2.1 DOOR SWING
SWING IN THE DIRECTION OF EGRESS TRAVEL (50 OR MORE OCCUPANT LOAD)
1013.1 EXIT SIGNS
NO MORE THAN 100 FEET VIEWING DISTANCE
1013.5, 1013.6 EXIT SIGN ILLUMINATION
EXIT SIGNS SHOULD BE INTERNALLY OR EXTERNALLY ILLUMINATED
1017.2 EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)
OCCUP. A = 250, B = 300 FEET WITH SPRINKLER
1020.2 MINIMUM CORRIDOR WIDTH (TABLE 1020.2)
ANY FACILITIES NOT LISTED BELOW 44 INCHES
ACCESS TO AND UTILIZATION OF EQUIPMENT 24 INCHES
WITH AN OCCUPANT LOAD OF LESS THAN 50 36 INCHES
WITHIN A DWELLING UNIT 36 INCHES
IN GROUP E WITH A CORRIDOR HAVING AN OCCUPANT LOAD OF 100 OR MORE 72 INCHES
IN CORRIDORS AND AREAS SERVING STRETCHER TRAFFIC IN AMBULATORY CARE FACILITIES 72 INCHES
GROUP I-2 IN AREAS WHERE REQUIRED FOR BED MOVEMENT 96 INCHES
1020.4 DEAD ENDS
20 FEET, 50 FEET FOR OCCUP. B WITH SPRINKLER
1022 EXITS
AS SHOWN ON THE PLAN
1028.1 EXIT DISCHARGE
EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING

ROOF ASSEMBLIES AND ROOFTOP STRUCTURES (CHAPTER 15)
1505.1 FIRE CLASSIFICATION (TABLE 1505.1)
MINIMUM ROOF COVERING CLASSIFICATION C

PLUMBING SYSTEMS (CHAPTER 29)
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (TABLE 2902.1)

	WATER CLOSETS		LAVATORIES	DRINKING FOUNTAIN	SERVICE SINK
	MALE	FEMALE			
FIRST FLOOR	4	4	6	2	
SECOND FLOOR	1	1	3	0	
TOTAL	5	5	9	2	
REQUIRED	4	5	6	2	2
PROVIDED	5	5	10	2	2

OCCUPANCY LOAD SCHEDULE

NUMBER	NAME	FUNCTION OF SPACE	AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
101	VESTIBULE	BUSINESS	85 SF	0	
102	LOBBY	BUSINESS	960 SF	100	10
103	MECHANICAL ROOM	STORAGE	190 SF	300	1
104	PARKS & REC STORAGE	STORAGE	253 SF	300	1
105	JANITORS CLOSET	STORAGE	63 SF	300	1
106	MENS RESTROOM		156 SF		
107	WOMENS RESTROOM		217 SF		
108	COUNCIL CHAMBERS / TRAINING ROOM	ASSEMBLY-UNCONC.	2735 SF	15	183
108A	STAIR		97 SF		
108B	A/V		18 SF		
109	DIAS	ASSEMBLY-UNCONC.	483 SF	15	33
110	MEETING ROOM	BUSINESS	131 SF	100	2
111	BREAK	BUSINESS	180 SF	100	2
112	T/C STORAGE	STORAGE	249 SF	300	1
113	RESTROOM		48 SF		
114	RESTROOM		48 SF		
201	DATA CENTER	STORAGE	141 SF	100	2
202	JAN.	STORAGE	83 SF	100	1
203	RECEPTION	BUSINESS	1144 SF	100	12
204	OPEN OFFICE	BUSINESS	162 SF	100	2
205	FINANCE/HR	BUSINESS	121 SF	100	2
206	8 PERSON MEETING	BUSINESS	234 SF	100	3
207	CITY CLERK	BUSINESS	142 SF	100	2
208	MAYOR	BUSINESS	144 SF	100	2
209	BUILDING DEPT.	BUSINESS	265 SF	100	3
210	CITY ADMIN	BUSINESS	283 SF	100	3
211	12 PERSON MEETING	BUSINESS	354 SF	100	4
212	BREAK	BUSINESS	268 SF	100	3
213	MOTHERS	BUSINESS	61 SF	100	1
214	CORR.		664 SF		
215	OFFICE	BUSINESS	113 SF	100	2
216	OFFICE	BUSINESS	110 SF	100	2
217	OFFICE	BUSINESS	110 SF	100	2
218	OFFICE	BUSINESS	113 SF	100	2
219	STAFF RESTROOM		59 SF		
220	STAFF RESTROOM		59 SF		
221	BUILDING, RECORD, GENERAL STORAGE	STORAGE	496 SF	300	2
222	SHARED WORK ROOM/ MAIL ROOM	BUSINESS	149 SF	100	2
			11189 SF		286

CODE PLAN LEGEND

TRAVEL DISTANCE 1' - 0"
TRAVEL DISTANCE TAG
EXIST ACCESS TRAVEL DISTANCE PER IBC2012 1016.1

100 NAME
150 SF --- BUSINESS
F=20 --- 60 OCCP.
EXIT REQ'D = 2/ PROV. =2
ROOM TAG
ROOM NUMBER ROOM NAME
AREA (SF) --- FUNCTION OF SPACE PER TABLE 1004.1.2
OCCUPANT LOAD FACTOR --- OCCUPANT LOAD
EXITS REQUIRED --- EXIST PROVIDED

0
240
48"
CORRIDOR TAG
ASSIGNED OCCUPANT LOAD ON THE CORRIDOR
ALLOWED OCCUPANT LOAD ON THE CORRIDOR
CLEAR CORRIDOR WIDTH

D100 -90M
1 OCCP. / PNC-NO
60"REQ'D / 70"ACT.
SGL/SPL
DOOR TAG
DOOR NUMBER - FIRE RATING (IF APPLICABLE)
OCCUPANT LOAD SERVED / PANIC HARDWARE
REQUIRED WIDTH / ACTUAL WIDTH
SINGLE OR DOUBLE DOOR / SPRINKLER OR NON-SPRINKLER

100 NAME
100 OCCP. --- 1 HR
REQ'D =36" --- ACT'L = 48"
EXCEPTION
EXIT ACCESS STAIRWAY
STAIR TAG
ROOM NUMBER ROOM NAME
OCCUPANT LOAD SERVED --- FIRE RATING
REQUIRED WIDTH --- ACTUAL WIDTH (BETWEEN HANDRAIL ON BOTH)
EXCEPTION USED (IF OPEN STAIR)

FEH DESIGN
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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES
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SHEET TITLE
BUILDING CODE PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
AG1.2

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LEGEND

FEATURES	FOUND	SET
Section Corner	▲	△
1/2" Rebar, Cap # 11579 (Unless Otherwise Noted)	●	○
ROW Marker	■	□
ROW Rail	H	
Control Point	OCP	
Bench Mark		
Platted Distance	P	
Measured Bearing & Distance	M	
Recorded As	R	
Deed Distance	D	
Calculated Distance	C	
Minimum Protection Elevation	MPE	
Centerline		
Section Line		
1/4 Section Line		
1/4 1/4 Section Line		
Easement Line		

FEATURES	EXISTING	PROPOSED
Spot Elevation	X 1225.25	X 1225.25
Contour Elevation	1225	1225
Fence (Barbed, Field, Hog)		
Fence (Chain Link)		
Fence (Wood)		
Fence (Silt)		
Tree Line		
Tree Stump		
Deciduous Tree \\ Shrub		
Coniferous Tree \\ Shrub		
Communication	C(*)	C
Overhead Communication	OC(*)	OC
Fiber Optic	FO(*)	FO
Underground Electric	E(*)	E
Overhead Electric	OE(*)	OE
Gas Main with Size	G(*)	G
High Pressure Gas Main with Size	HPG(*)	HPG
Water Main with Size	W(*)	W
Sanitary Sewer with Size	S(*)	S
Duct Bank	DUCT(*)	DUCT
Test Hole Location for SUE w/ID		

(*) Denotes the survey quality service level for utilities

Sanitary Manhole		
Storm Sewer with Size	ST(*)	ST
Storm Manhole		
Single Storm Sewer Intake		
Double Storm Sewer Intake		
Fire Hydrant		
Fire Hydrant on Building		
Water Main Valve		
Water Service Valve		
Well		
Utility Pole		
Guy Anchor		
Utility Pole with Light		
Utility Pole with Transformer		
Street Light		
Yard Light		
Electric Box		
Electric Transformer		
Traffic Sign		
Communication Pedestal		
Communication Manhole		
Communication Handhole		
Fiber Optic Manhole		
Fiber Optic Handhole		
Gas Valve		
Gas Manhole		
Gas Apparatus		
Fence Post or Guard Post		
Underground Storage Tank	UST	
Above Ground Storage Tank	AST	
Sign		
Satellite Dish		
Mailbox		
Sprinkler Head		
Irrigation Control Valve	ICV	ICV

UTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI / ASCE 38-02 STANDARD.
QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS.
QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH
QUALITY D INFORMATION.
QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.
QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

NOTES

1. BUILDING LINES AND CORNERS ARE FOR USE IN PREPARING CIVIL SITE PLAN DOCUMENTS. BUILDING CORNERS AND BUILDING LINES SHOULD BE SPECIFICALLY VERIFIED, AS NECESSARY, PRIOR TO DESIGN FOR CONSTRUCTION OF ANY PROPOSED EXPANSION OR CONNECTION OF BUILDING COMPONENTS.
2. FOR CLARITY PURPOSES, SURVEY SPOT ELEVATIONS ARE NOT SHOWN ON THIS SURVEY, BUT ARE CONTAINED WITHIN THE DIGITAL CADD FILES.
3. FOR THE PURPOSE OF THIS SURVEY, STORM SEWER, SANITARY SEWER AND WATER MAIN LINES ARE ASSUMED TO FOLLOW A STRAIGHT LINE FROM STRUCTURE TO STRUCTURE.
4. UTILITY SERVICE LINES TO BUILDINGS ARE APPROXIMATE ONLY. AN INTERNAL BUILDING INVESTIGATION, EXCAVATION AND/OR SUBSURFACE LOCATING/DESIGNATING WOULD NEED TO BE PERFORMED TO DETERMINE THE LOCATION OF SERVICES ENTERING THE BUILDING.
5. UNDERGROUND PIPE MATERIALS AND SIZES ARE BASED UPON VISIBLE EVIDENCE VIEWED FROM ACCESS MANHOLES/STRUCTURES. DUE TO THE CONFIGURATION AND/OR CONSTRUCTION OF THE STRUCTURE, IT MAY BE DIFFICULT TO ACCURATELY DETERMINE THE PIPE MATERIAL AND/OR SIZE. THE SURVEYOR WILL USE THEIR JUDGMENT AND EXPERIENCE TO ATTEMPT TO DETERMINE, BUT COMPLETE ACCURACY CANNOT BE GUARANTEED.
6. BOUNDARY LINES SHOWN ON THE EXISTING SITE SURVEY ARE TO FACILITATE DESIGN OR CONCEPT NEEDS AND ENABLE CREATION OF SAID CONSTRUCTION DOCUMENTS. THESE LINES DO NOT CONSTITUTE A CERTIFIED BOUNDARY SURVEY AND MISSING MONUMENTS WILL NOT BE SET.

CONTROL POINTS

IOWA REGIONAL COORDINATE SYSTEM ZONE 8 (IA-AMES-DES MOINES)
NAD83(2011)(EPOCH 2010.00) IARTN DERIVED - US SURVEY FEET

CP1 N=7554208.28 E=18500240.61 Z=910.45
SET MAG MAIL S. SIDE WOOD ST, +/- 30' E. OF CL 4TH ST, +/- 10' NE OF UTILITY POLE W/ LIGHT.

CP2 N=7554481.85 E=18500410.57 Z=891.15
SET CUT 'X' TOP OF CURB, W. SIDE 4TH ST, +/-40' N. OF CL VAN DORN ST., +/-8' SE OF HYDRANT

CP3 N=7554262.84 E=18500651.03 Z=892.16
SET CUT 'X' TOP OF CURB, N. SIDE VAN DORN ST. +/-30' E. OF CL S. 3RD ST, @ MID RAD ISLAND.

CP4 N=7554026.90 E=18500434.39 Z=900.81
SET CUT 'X' TOP OF CURB, E. SIDE S. 3RD ST, +/-20' S. OF CL WOOD ST. @ MID RAD

BENCHMARKS

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - GEOID12A)
IARTN DERIVED - US SURVEY FEET

BM500 N=7554263 E=18500223 ELEV=908.63'
SW BURY BOLT HYDT @ NW CORNER 4TH ST & WOOD ST
WATEROUS HYDRT

BM501 N=7554230 E=18500596 ELEV=893.97'
SET CUT 'X' CONCRETE BASE, PED CROSSING SIGNAL, SE QUADRANT VAN DORN & S. 3RD ST

DATE OF SURVEY

JUNE 8, 2022

UTILITY CONTACT INFORMATION

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBER 552203456.

G1-GAS MAIN	MIDAMER-GAS Craig Ranfeld (515)-252-6632 MECDSMDESIGNLOCATES@MIDAMERICAN.COM
FO2-FIBER OPTIC	CENTURYLINK SADIE HULL (918)-547-0147 SADIE.HULL@LUMEN.COM
FO1-FIBER OPTIC	AUREON NETWORK SERVICES Jeff Klocko (515)-830-0445 JEFF.KLOCKO@AUREON.COM
OE1-OVERHEAD ELECTRIC UE1-UNDERGROUND ELECTRIC	MIDAMER-ELEC Craig Ranfeld (515)-252-6632 MECDSMDesignLocates@midamerican.com
F03-FIBER OPTIC	MI-FIBER JACK JONES (515)-897-9192 JACK@GRM.NET
NO RESPONSE	POLK CITY, CITY OF JENNY GIBBONS (515)-984-6233 JGIBBONS@POLKCITYIA.GOV
NO RESPONSE	MEDIACOM KEVIN COLLINS (515)-246-6668 KCOLLINS1@MEDIACOMCC.COM

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com

PROPERTY DESCRIPTION

LOTS 1,2,3, 4 AND THE NORTH/SOUTH ALLEY AND EAST/WEST ALLEY IN BLOCK 13, POLK CITY, POLK COUNTY, IOWA, SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.

PROPERTY ADDRESS

214 S 3RD STREET, POLK CITY, IA

ZONING

C-1 CENTRAL BUSINESS DISTRICT (EXISTING)
U-1 PUBLIC UTILITY DISTRICT (PROPOSED)

BULK REGULATIONS

BUILDING HEIGHT LIMIT: (3 STORIES OR 45')
MINIMUM LOT AREA: NONE
MINIMUM LOT WIDTH: NONE
MINIMUM FRONT YARD DEPTH: NONE
MINIMUM SIDE YARD DEPTH: NONE
MINIMUM REAR YARD DEPTH: NONE

PARKING REQUIREMENTS

1ST FLOOR AREA: 6,536 SF
1 STALL PER 300 SF OF OCCUPIABLE SPACE.
1 STALL PER 400 SF OF STORAGE SPACE (565 SF).
5,971 SF OF OCCUPIABLE SPACE / 300 = 22 STALLS REQUIRED.

2ND FLOOR AREA: 5,626 SF
1 STALL PER 200 SF OCCUPIABLE SPACE.
1 STALL PER 400 SF OF STORAGE SPACE (83 SF).
5,543/ 200 = 28 STALLS REQUIRED.

TOTAL = 50 STALLS REQUIRED
50 STALLS PROVIDED, INCLUDING 2 ADA STALLS.

PROJECT INFORMATION GENERAL NOTES

A. UTILITY WARNING:
THE UTILITIES SHOWN HAVE BEEN LOCATED FROM MAP INFORMATION, ONE-CALL UTILITY LOCATIONS AND/OR RECORDS OBTAINED. THE ENGINEER MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER OR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED.

B. WHERE UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY FURTHER CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY OR DAMAGE CAUSED BY SUCH WORK. THE CONTRACTOR SHALL MAKE REPAIRS TO ANY UTILITY DAMAGED TO THE UTILITY PROVIDERS SPECIFICATIONS.

C. CONSTRUCTION OF ALL SITE IMPROVEMENTS SHALL CONFORM TO THE 2023 STATE-WIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS) AND THE PROJECT SPECIAL PROVISIONS.

D. ALL DIMENSIONS ARE TO BUILDING FACE, BACK OF CURB OR TO PROPERTY LINE UNLESS OTHERWISE NOTED.

E. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES ON SITE (SIGNS, DRIVES, CURBS, SIDEWALKS, PLANT MATERIAL, LIGHTS, BUILDINGS, ETC.) NOT DESIGNATED FOR DEMOLITION DURING CONSTRUCTION. PROTECT EXISTING DRIVEWAYS AND STREET SURFACING UNLESS SPECIFICALLY NOTED OTHERWISE. REMOVE AND REPLACE ANY DAMAGED SURFACING WITHOUT ADDITIONAL COMPENSATION. SAW-CUT AND REMOVE EXISTING PAVEMENT AS NECESSARY FOR DAMAGED PAVEMENT REPLACEMENT.

F. EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAWCUTTING OPERATIONS FOR THE REMOVAL OF THE EXISTING PAVEMENT. PROTECT THE ADJACENT PAVEMENT, BUILDINGS AND UTILITIES UNLESS NOTED OTHERWISE. CONTRACTOR TO REPAIR ANY DAMAGES WITHOUT ADDITIONAL COMPENSATION. REMOVE THE EXISTING PAVEMENT AREAS TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.

G. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED FOR PROJECT, INCLUDING BUT NOT LIMITED TO BUILDING PERMITS AND UTILITY PERMITS.

H. ALL TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL SERVICES (MUTCD).

I. ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED AND NOTED ACCORDINGLY ON THE AS-BUILT DOCUMENTS.

J. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION, AND DUST POLLUTION ON PROJECT SITE AND ANY OFF-SITE DEPOSIT AREA USED FOR THIS PROJECT. COMPLY WITH SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE AND LOCAL ORDINANCES. INSTALL SILTATION DEVICES TO PREVENT SEDIMENT FROM ENTERING DRAINAGE STRUCTURES AND/OR FACILITIES.

K. DO NOT RESTRICT DRAINAGE CHANNELS AND PROTECT ALL EXISTING DRAINAGE STRUCTURES UNLESS OTHERWISE NOTED. CONTRACTOR IS FULLY LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN PROVIDING FOR THE HANDLING OF STORM WATER FLOW DURING CONSTRUCTION.

L. CONTRACTOR SHALL PROVIDE OFF-SITE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT AS APPROVED BY THE OWNER AND ENGINEER. NO PAYMENT FOR DISPOSAL FEES OR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO DISPOSAL SITES. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. HAULING AND DISPOSAL OF EXCESS EXCAVATION IS INCIDENTAL TO EARTHWORK ACTIVITIES. ANY ADDITIONAL EXCAVATION REQUIRED FOR LIMITED RE-SHAPING OF ADJACENT AREAS TO PROVIDE FOR DRAINAGE IS CONSIDERED INCIDENTAL TO THE PROJECT.

M. THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITIES TO THE CONSTRUCTION LIMITS SHOWN UNLESS OTHERWISE AUTHORIZED BY THE OWNER IN WRITING. CONTRACTOR TO COORDINATE SITE ACCESS, CONSTRUCTION STAGING, AND STORAGE OF MATERIALS AND EQUIPMENT ON THE PROJECT SITE WITH OWNER.

N. CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND EQUIPMENT DURING NON-WORKING HOURS. THE CONTRACTOR WILL NOT BE PERMITTED TO PARK VEHICLES OR STORE EQUIPMENT AND MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY, UNLESS APPROVED IN WRITING PRIOR TO CONSTRUCTION ACTIVITIES.

O. ALL HOLES RESULTING FROM OPERATIONS OF THE CONTRACTOR, INCLUDING REMOVAL OF POSTS, UTILITY POLES, OR FOUNDATION STRUCTURES SHALL BE FILLED AND CONSOLIDATED TO FINISHED GRADE AS APPROVED BY THE ENGINEER TO PREVENT FUTURE SETTLEMENT. THE VOIDS SHALL BE FILLED AS SOON AS PRACTICAL, PREFERABLY THE DAY CREATED AND NO LATER THAN THE FOLLOWING DAY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS IN PROJECT.

P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING DIRT AND DEBRIS DEPOSITED BY CONSTRUCTION ACTIVITY OFF STREETS, DRIVEWAYS, AND SIDEWALKS IN A TIMELY MANNER.

Q. MATERIAL TESTING SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE SAMPLES OF MATERIALS REQUIRED FOR LABORATORY TESTS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

R. ALL EXISTING UTILITY APPURTENANCES LOCATED WITHIN CONSTRUCTION LIMITS SHALL BE ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

S. DIMENSIONS, BUILDING LOCATION, UTILITIES AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERIFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.

T. PROVIDE ORANGE CONSTRUCTION FENCE AND SIGNAGE AS NECESSARY FOR THE PROJECT. THIS INCLUDES TEMPORARILY CLOSING SIDEWALKS, AS PER CITY REQUIREMENTS.

U. PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETED.

V. LENGTH OF UTILITIES SHOWN PLANS ARE DIMENSIONED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE.

W. CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE SITE OF THE PROPOSED WORK PRIOR TO BIDDING. CONTRACTOR TO REVIEW EXISTING CONDITIONS AND ALL WORK NECESSARY FOR COMPLETION OF THE PROPOSED CONSTRUCTION.

PRELIMINARY
NOT FOR CONSTRUCTION

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2035
IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
PROJECT INFORMATION

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
C101

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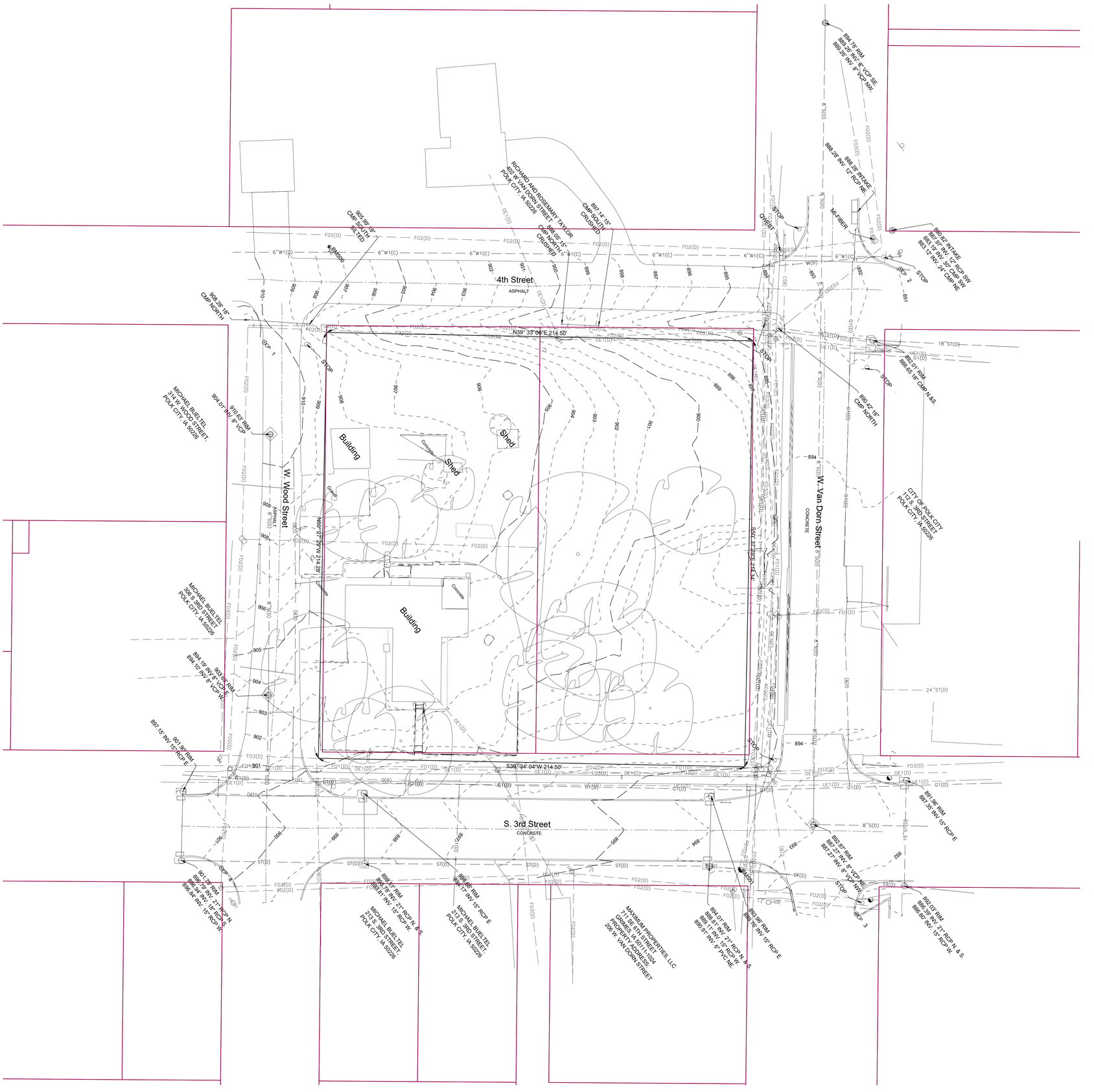


PRELIMINARY
NOT FOR CONSTRUCTION

SHEET C200	PROJECT NUMBER 2022213.02	DATE ISSUED 2/13/2023	REV. NO. DATE

PROJECT TITLE CITY OF POLK CITY, IOWA

POLK CITY NEW CITY HALL

POLK CITY, IOWA 50226

SHEET TITLE

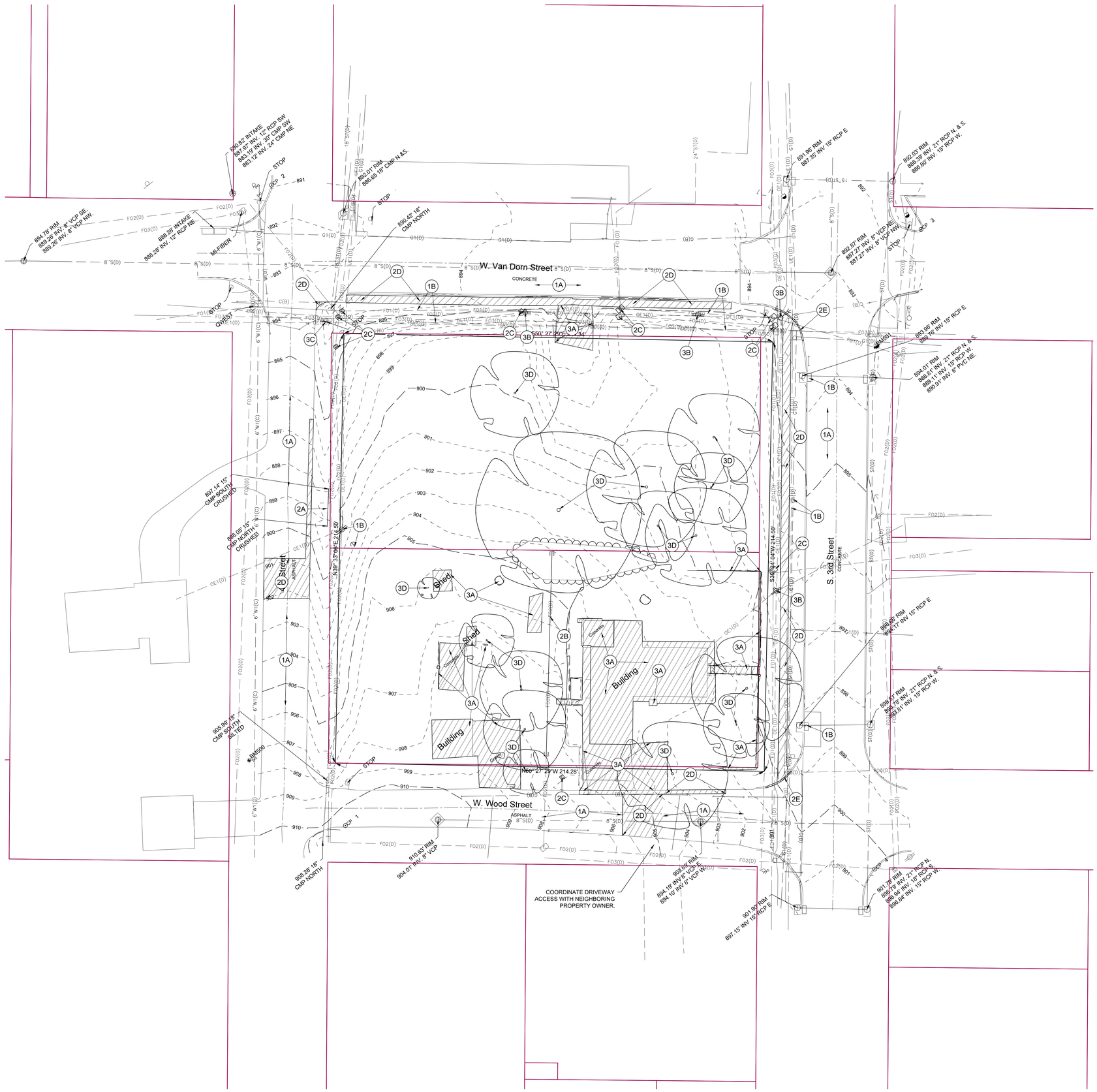
EXISTING SITE CONDITIONS PLAN

IN ASSOCIATION WITH

IMEG
SNYDER & ASSOCIATES

FEH DESIGN

SIOUX CITY, IA (712) 252-3889 | DES MOINES, IA (515) 288-2000 | DUBUQUE, IA (563) 583-4900 | OCONOMOWOC, WI (262) 968-2055



DEMOLITION PLAN CONSTRUCTION NOTES

1. EXISTING FEATURES TO REMAIN, PROTECT THE FOLLOWING:
   A. PAVEMENTS NOT SCHEDULED FOR DEMOLITION.
   B. UTILITIES AND STRUCTURES.

2. EXISTING FEATURES, CONTRACTOR TO REMOVE AND DISPOSE OF THE FOLLOWING IN COORDINATION WITH FIRE STATION PROJECT:
   A. STORM SEWER AND CULVERT.
   B. EXISTING FIBER TO LIMITS SHOWN.
   C. ADJUST EXISTING UTILITY BOX LIDS TO FINISH GRADE, COORDINATE WITH UTILITY PROVIDER, PRIOR TO CONSTRUCTION.
   D. PAVEMENT, SAWCUT TO FULL DEPTH AT REMOVAL LIMITS.
   E. CURB.

3. OWNER TO REMOVE THE FOLLOWING PRIOR TO CONSTRUCTION:
   A. EXISTING BUILDING, STRUCTURE, PAVEMENTS, FOOTINGS, RETAINING WALLS AND ASSOCIATED WORK.
   B. FRANCHISE UTILITY PROVIDER TO RELOCATE EXISTING OVERHEAD POLES. COORDINATE PRIOR TO CONSTRUCTION.
   C. STOP SIGN AND RELOCATE.
   D. TREES AND VEGETATION. REMOVE ROOTBALL TO 24" MINIMUM DEPTH.

PRELIMINARY
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IMEG
SNYDER & ASSOCIATES

SHEET TITLE
SITE DEMOLITION PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
C201

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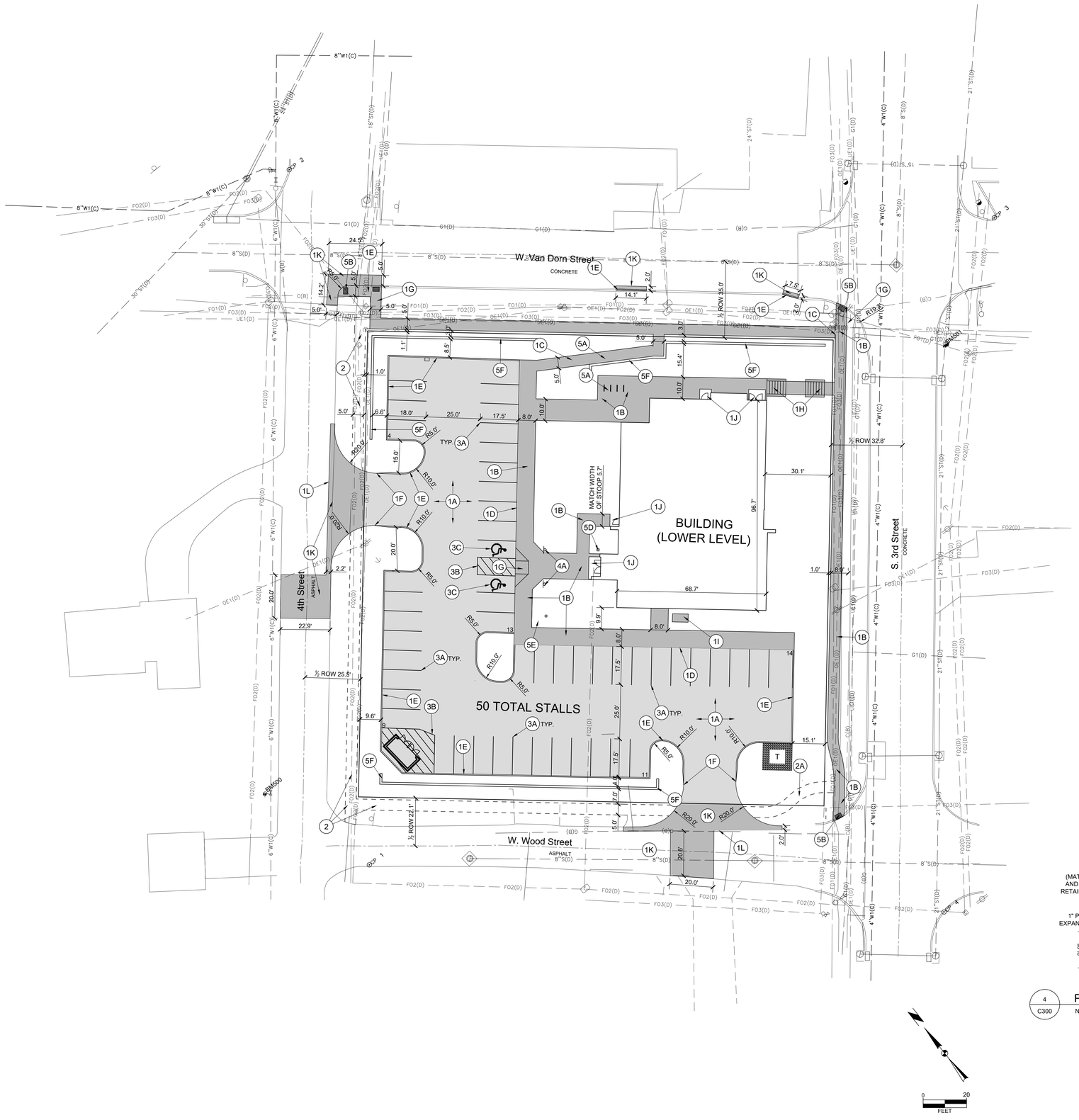
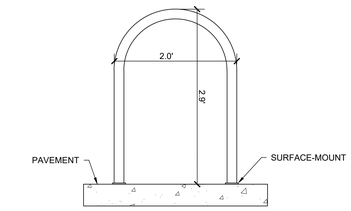
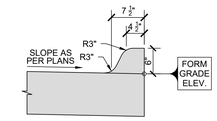


SITE LAYOUT PLAN CONSTRUCTION NOTES

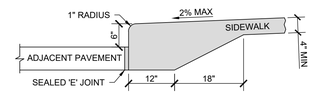
1. PAVEMENTS, PROVIDE THE FOLLOWING:
   A. 6" DEPTH PCC. PAVEMENT SHALL BE ON 12" DEPTH PREPARED SUBGRADE, COMPACTED TO 95% STANDARD PROCTOR DENSITY.
   B. 5" DEPTH PCC TRAIL.
   C. 4" DEPTH PCC SIDEWALK.
   D. PCC INTEGRAL SIDEWALK AND CURB. SEE DETAIL.
   E. 6" STANDARD CURB. SEE DETAIL.
   F. TAPER TO FULL CURB IN 6' DISTANCE.
   G. PEDESTRIAN RAMP WITH MAXIMUM SLOPE OF 8.33%. PROVIDE DETECTABLE WARNING PANELS, AS PER SUDAS DETAIL 7030.10, WHERE SHOWN.
   H. PCC STAIRS. SEE DETAIL.
   I. PCC GENERATOR PAD. SEE MECHANICAL PLANS FOR DETAILS.
   J. PCC STOOP. SEE ARCHITECTURAL PLANS FOR DETAILS.
   K. 8" DEPTH PCC WITHIN ROW.
   L. PROVIDE SUDAS TYPE B DRIVEWAY CONNECTION.
2. FUTURE SIDEWALK IMPROVEMENTS, SHOWN FOR COORDINATION PURPOSES.
3. PAVEMENT MARKINGS, PROVIDE THE FOLLOWING:
   A. 4" WIDE PAINTED PARKING STALL LINE.
   B. ACCESSIBLE AISLE. PAINTED 45-DEGREE STRIPING AT 3' O.C.
   C. PAINTED STATE-OF-IOWA-APPROVED DISABLED SYMBOL, AS PER ADAAG REQUIREMENTS.
   D. PAINTED 45 DEGREE STRIPING AT 3' O.C.
4. SIGNAGE, PROVIDE THE FOLLOWING:
   A. ADA HANDICAP PARKING SIGN.
5. SITE AMENITIES AS FOLLOWS:
   A. SINGLE-LOOP BIKE RACK. SEE DETAIL.
   B. TRUNCATED DOME. PROPOSED TRAIL (WIDTH GREATER THAN 5') SHALL BE BRICK RED.
   C. TRUNCATED DOME. PROPOSED SIDEWALK WIDTH 5' OR LESS) SHALL BE CHARCOAL GRAY.
   D. RAPID ENTRY BOX LOCATION. COORDINATE WITH ARCHITECTURAL PLANS AND POLK CITY FIRE DEPARTMENT.
   E. PROPOSED FLAGPOLE. SEE ARCHITECTURAL PLANS.
   F. REDI ROCK RETAINING WALL, KINGSTON COLOR.
6. SEE MECHANICAL PLANS FOR ELECTRICAL, GAS AND COMMUNICATION SERVICES.
7. ADJUST COMMUNICATION PEDESTALS TO FINISH GRADE. RELOCATE AS NECESSARY TO AVOID SIDEWALK. COORDINATE WITH FRANCHISE UTILITY PROVIDER PRIOR TO CONSTRUCTION.



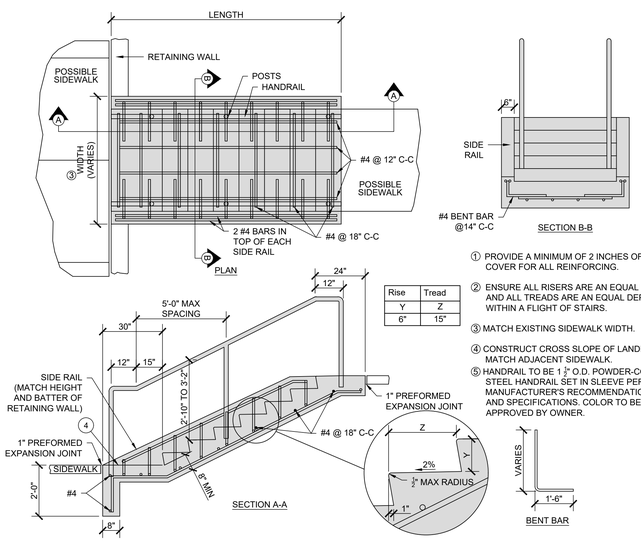
1 / C300 SINGLE-LOOP BIKE RACK
NO SCALE



2 / C300 6-INCH STANDARD CURB
NO SCALE



3 / C300 INTEGRAL SIDEWALK AND CURB DETAIL
NO SCALE



Rise	Tread
Y	Z
6"	15"

① PROVIDE A MINIMUM OF 2 INCHES OF COVER FOR ALL REINFORCING.

② ENSURE ALL RISERS ARE AN EQUAL HEIGHT AND ALL TREADS ARE AN EQUAL DEPTH WITHIN A FLIGHT OF STAIRS.

③ MATCH EXISTING SIDEWALK WIDTH.

④ CONSTRUCT CROSS SLOPE OF LANDING TO MATCH ADJACENT SIDEWALK.

⑤ HANDRAIL TO BE 1 ½" O.D. POWDER-COATED STEEL HANDRAIL SET IN SLEEVE PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. COLOR TO BE APPROVED BY OWNER.

4 / C300 PCC STAIRS WITH RAILING
NO SCALE

PRELIMINARY
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DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2035
IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
LAYOUT AND DIMENSION PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
C300

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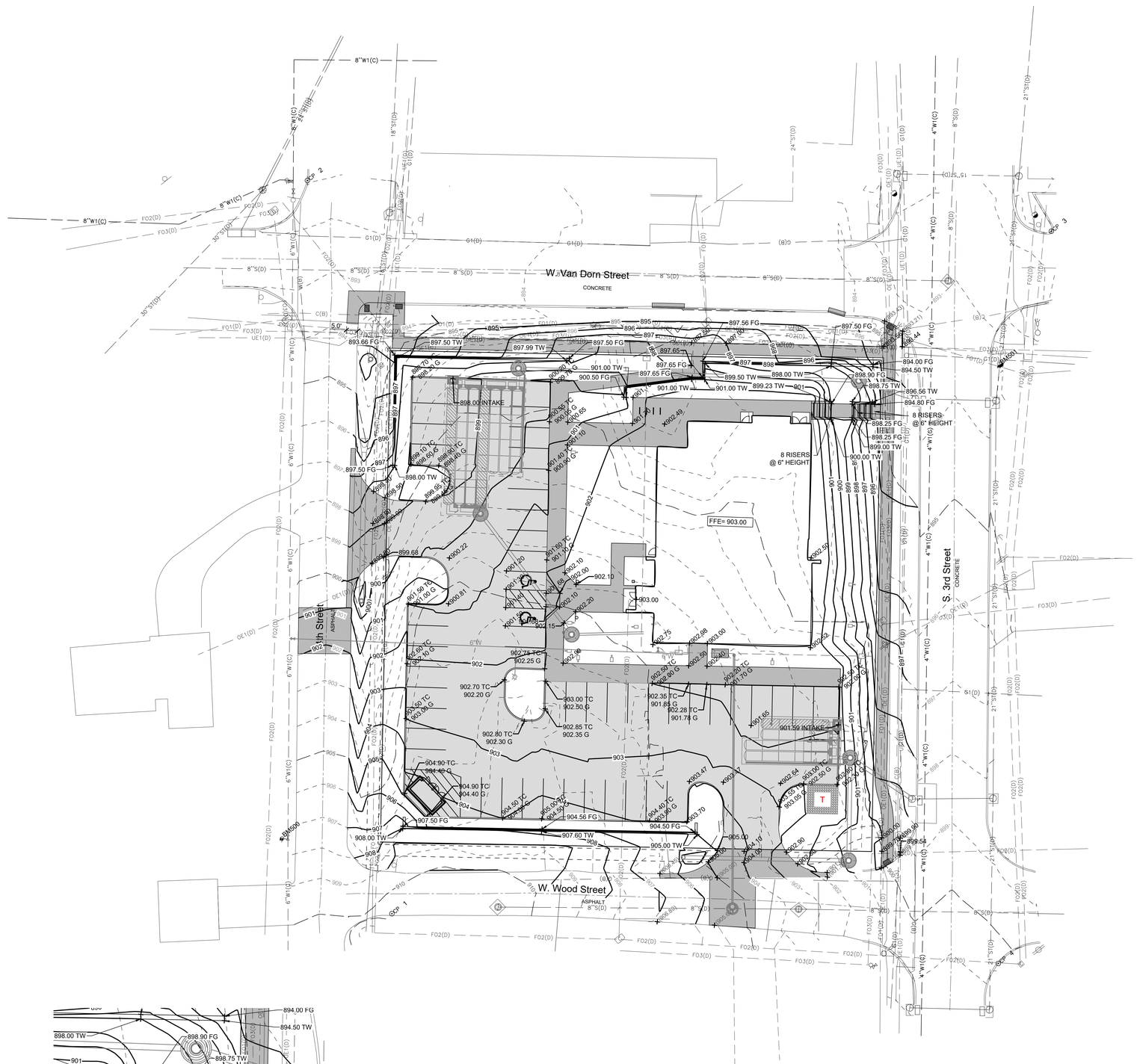
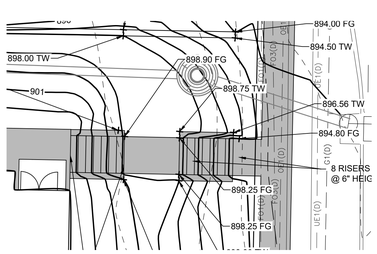




GRADING GENERAL NOTES

A. CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL ON ALL AREAS TO BE CUT OR FILLED. RESPREAD TO MINIMUM 8" DEPTH TO FINISH GRADES.

B. ANY EXCESS CUT TO BE SPREAD ON SITE AS DIRECTED BY ENGINEER DURING CONSTRUCTION. PLACE TOPSOIL OVER ALL AREAS DISTURBED.

C. ALL DRAINAGE SWALES AND SLOPES 5 TO 1 OR GREATER TO BE SEEDED USING COMMERCIALLY AVAILABLE EROSION CONTROL SEED. MIXTURE APPLIED AT RATE RECOMMENDED BY SUPPLIER.

D. EROSION CONTROL: SEED THE SITE AFTER ROUGH GRADING HAS BEEN COMPLETED. PLACE SILT FENCE AND MAINTAIN IN PROBLEM AREAS AFTER GROUND COVER HAS BEEN ESTABLISHED. COMPLY WITH EROSION CONTROL LAW.

E. PROVIDE BELOW GRADE INLET PROTECTION IN PAVED AREAS FOLLOWING PAVING OPERATIONS.

POLLUTION PREVENTION NOTES

A. POLLUTION PREVENTION AND EROSION PROTECTION

1. CODE COMPLIANCE: THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL POTENTIAL POLLUTION AND SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) NPDES PERMIT, THE U.S. CLEAN WATER ACT AND ANY LOCAL ORDINANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT AGAINST EROSION AND POLLUTION FROM THIS PROJECT SITE AND ALL OFF-SITE BORROW OR DEPOSIT AREAS DURING PERFORMANCE OR AS A RESULT OF PERFORMANCE.

2. DAMAGE CLAIMS: THE CONTRACTOR WILL HOLD THE OWNER AND ARCHITECT / ENGINEER HARMLESS FROM ANY AND ALL CLAIMS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORNEY FEES INCURRED TO OWNER. FURTHER, IF THE CONTRACTOR FAILS TO TAKE NECESSARY STEPS TO PROMPTLY REMOVE EARTH SEDIMENTATION OR DEBRIS WHICH COMES ONTO ADJOINING PUBLIC OR PRIVATE PROPERTY, THE OWNER MAY, BUT NEED NOT, REMOVE SUCH ITEMS AND DEDUCT THE COST THEREOF FROM AMOUNTS DUE TO THE CONTRACTOR.

B. STORM WATER DISCHARGE PERMIT

1. THIS PROJECT REQUIRES COVERAGE UNDER THE NPDES GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDNR, AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH AND FULFILLMENT OF ALL REQUIREMENTS OF THE NPDES GENERAL PERMIT NO. 2 AS SPECIFIED IN THE CONTRACT DOCUMENTS.

2. ALL DOCUMENTS RELATED TO THE STORM WATER DISCHARGE PERMIT, INCLUDING, BUT NOT LIMITED TO, THE NOTICE OF INTENT, PROOF OF PUBLICATIONS, DISCHARGE AUTHORIZATION LETTER, CURRENT SWPPP, SITE INSPECTION LOG, AND OTHER ITEMS, SHALL BE KEPT ON SITE AT ALL TIMES AND MUST BE PRESENTED TO ANY JURISDICTIONAL AGENCIES UPON REQUEST. FAILURE TO COMPLY WITH THE NPDES PERMIT REQUIREMENTS IS A VIOLATION OF THE CLEAN WATER ACT AND THE CODE OF IOWA.

3. A "NOTICE OF DISCONTINUATION" MUST BE FILED WITH THE IDNR UPON FINAL STABILIZATION OF THE DISTURBED SITE AND REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES. ALL PLANS, INSPECTION REPORTS, AND OTHER DOCUMENTS MUST BE RETAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION. THE CONTRACTOR SHALL RETAIN A RECORD COPY AND PROVIDE THE ORIGINAL DOCUMENTS TO THE OWNER UPON PROJECT ACCEPTANCE AND/OR SUBMITTAL OF THE NOTICE OF DISCONTINUATION.

C. POLLUTION PREVENTION PLAN

1. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS A SEPARATE DOCUMENT IN ADDITION TO THESE PLAN DRAWINGS. THE CONTRACTOR SHOULD REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS AND MODIFICATIONS TO THE POLLUTION PREVENTION PLAN MADE DURING CONSTRUCTION.

2. THE SWPPP ILLUSTRATES GENERAL MEASURES AND BEST MANAGEMENT PRACTICES (BMP) FOR COMPLIANCE WITH THE PROJECT'S NPDES PERMIT COVERAGE. ALL BMP'S AND EROSION CONTROL MEASURES REQUIRED AS A RESULT OF CONSTRUCTION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, NOTE AND IMPLEMENT. ADDITIONAL BMP'S FROM THOSE SHOWN ON THE PLAN MAY BE REQUIRED.

3. THE SWPPP AND SITE MAP SHOULD BE EXPEDITIOUSLY REVISED TO REFLECT CONSTRUCTION PROGRESS AND CHANGES AT THE PROJECT SITE.

4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL PERMIT AND SWPPP, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING BMP'S UNLESS INFEASIBLE OR NOT APPLICABLE:

   a. UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE WHEN DISCHARGING FROM BASINS, PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORM WATER INFILTRATION, AND MINIMIZE SOIL COMPACTION.

   b. INSTALL PERIMETER AND FINAL SEDIMENT CONTROL MEASURES SUCH AS SILT BARRIERS, DITCH CHECKS, DIVERSION BERMS, OR SEDIMENTATION BASINS DOWNSTREAM OF SOIL DISTURBING ACTIVITIES PRIOR TO SITE CLEARING AND GRADING OPERATIONS.

   c. PRESERVE EXISTING VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION AND LIMIT TO A MINIMUM THE TOTAL AREA DISTURBED BY CONSTRUCTION OPERATIONS AT ANY TIME.

   d. MAINTAIN ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES IN WORKING ORDER, INCLUDING CLEANING, REPAIRING, REPLACEMENT, AND SEDIMENT REMOVAL THROUGHOUT THE PERMIT PERIOD. CLEAN OR REPLACE SILT CONTROL DEVICES WHEN THE MEASURES HAVE LOST 50% OF THEIR ORIGINAL CAPACITY.

   e. INSPECT THE PROJECT AREA AND CONTROL DEVICES (BY QUALIFIED PERSONNEL ASSIGNED BY THE CONTRACTOR) EVERY SEVEN CALENDAR DAYS. RECORD THE FINDINGS OF THESE INSPECTIONS AND ANY RESULTING ACTIONS IN THE SWPPP WITH A COPY SUBMITTED WEEKLY TO THE OWNER OR ENGINEER DURING CONSTRUCTION. REVISE THE SWPPP AND IMPLEMENT ANY RECOMMENDED MEASURES WITHIN 7 DAYS.

   f. PREVENT ACCUMULATION OF EARTH AND DEBRIS FROM CONSTRUCTION ACTIVITIES ON ADJOINING PUBLIC OR PRIVATE PROPERTIES, INCLUDING STREETS, DRIVEWAYS, SIDEWALKS, DRAINAGEWAYS, OR UNDERGROUND SEWERS. REMOVE ANY ACCUMULATION OF EARTH OR DEBRIS IMMEDIATELY AND TAKE REMEDIAL ACTIONS FOR FUTURE PREVENTION.

   g. INSTALL NECESSARY CONTROL MEASURES SUCH AS SILT BARRIERS, EROSION CONTROL MATS, MULCH, DITCH CHECKS OR RIPRAP AS SOON AS AREAS REACH THEIR FINAL GRADES AND AS CONSTRUCTION OPERATIONS PROGRESS TO ENSURE CONTINUOUS RUNOFF CONTROL. PROVIDE INLET AND OUTLET CONTROL MEASURES AS SOON AS STORM SEWERS ARE INSTALLED.

   h. RESPREAD A MINIMUM OF 6 INCHES OF TOPSOIL (INCLUDING TOPSOIL FOUND IN SOD) ON ALL DISTURBED AREAS, EXCEPT WHERE PAVEMENT, BUILDINGS OR OTHER IMPROVEMENTS ARE LOCATED.

   i. STABILIZE UNDEVELOPED, DISTURBED AREAS WITH MULCH, TEMPORARY SEED MIX, PERMANENT SEED MIX, SOD, OR PAVEMENT IMMEDIATELY AS SOON AS POSSIBLE UPON COMPLETION OR DELAY OF GRADING OPERATIONS. INITIATE STABILIZATION MEASURES IMMEDIATELY AFTER CONSTRUCTION ACTIVITY IS FINALLY COMPLETED OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WHICH WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.

   j. COORDINATE LOCATIONS OF STAGING AREAS WITH THE OWNER AND RECORD IN THE SWPPP. UNLESS NOTED OTHERWISE, STAGING AREAS SHOULD CONTAIN THE FOLLOWING: JOB TRAILERS, FUELING / VEHICLE MAINTENANCE AREA, TEMPORARY SANITARY FACILITIES, MATERIALS STORAGE, AND CONCRETE WASHOUT FACILITY. CONTROL RUNOFF FROM STAGING AREAS WITH DIVERSION BERMS AND/OR SILT BARRIERS AND DIRECT TO A SEDIMENT BASIN OR OTHER CONTROL DEVICE WHERE POSSIBLE. CONCRETE WASHOUT MUST BE CONTAINED ONSITE.

   k. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND SITE WASTE PRIOR TO FILING OF THE "NOTICE OF DISCONTINUATION".

0 20
FEET

PRELIMINARY
NOT FOR CONSTRUCTION

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2035

IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
SITE GRADING AND EROSION CONTROL PLAN

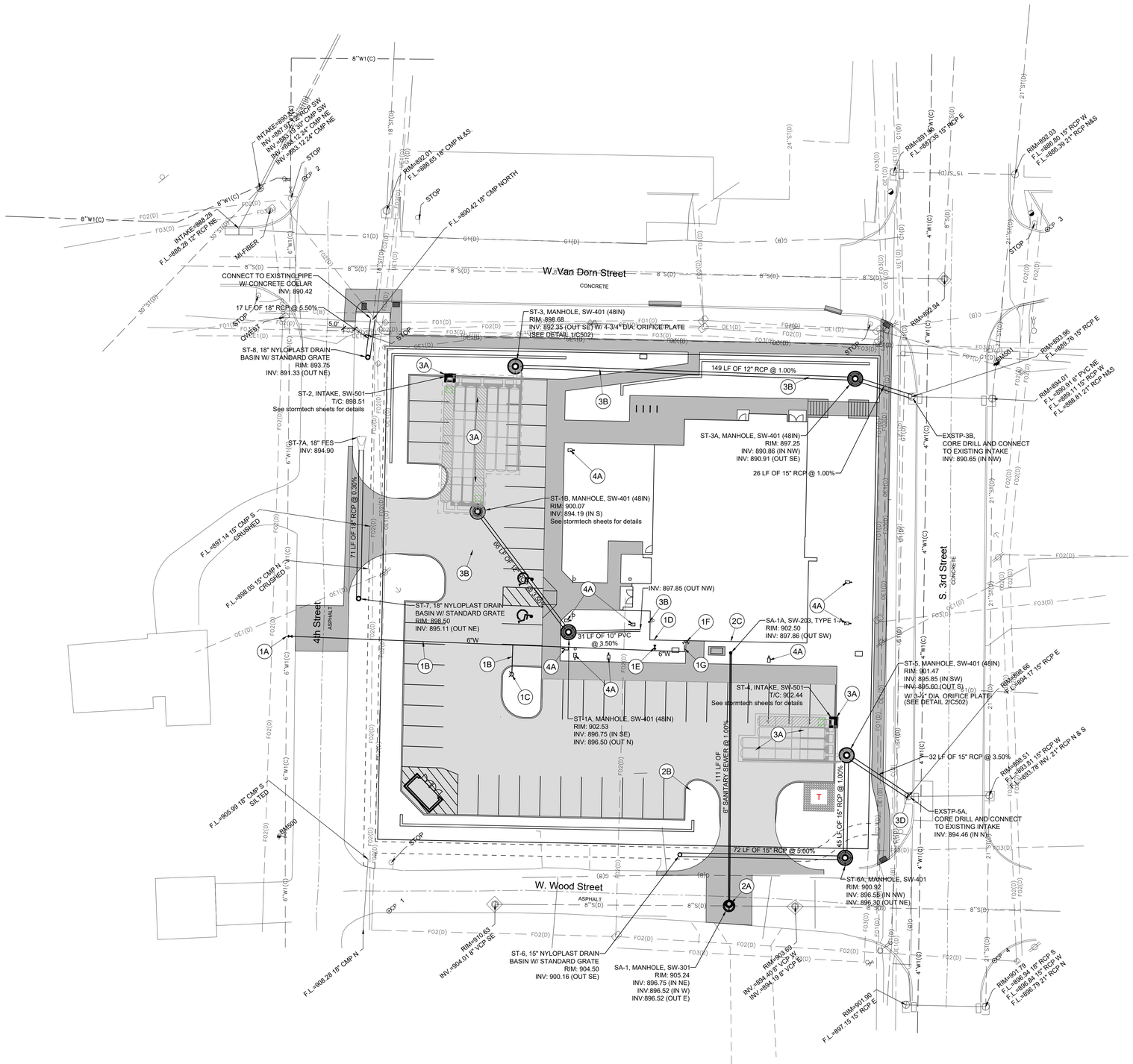
PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
C400

V:\Projects\2022\22.0949.01\ACAD\GIPA_122.0949A_GRDG.dwg ALEX MCKINNEY, GRADING PLAN, 2023/02/03, 12:43 PM, ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)



SITE UTILITY PLAN CONSTRUCTION NOTES

1. WATER, PROVIDE THE FOLLOWING PER CITY OF POLK CITY STANDARD SPECIFICATIONS:
   A. CONNECT TO EXISTING WATER LINE WITH 6" X 6" TAPPING SLEEVE AND VALVE
   B. PROVIDE 6" PRIVATE WATER LINE.
   C. PROVIDE FIRE HYDRANT.
   D. BUILDING WATER SERVICE CONNECTION. COORDINATE WITH MECHANICAL PLANS PRIOR TO CONSTRUCTION.
   E. PROVIDE 3" PRIVATE DOMESTIC WATER LINE WITH VALVE. PROVIDE 12"X12" PCC CONCRETE PAD AT VALVE LOCATION.
   F. FIRE DEPARTMENT LOCATION. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS.
   G. 6" FIRE SERVICE LINE.

2. SANITARY SEWER, PROVIDE THE FOLLOWING PER CITY OF POLK CITY STANDARD SPECIFICATIONS:
   A. CONTRACTOR TO MAKE CONNECTION TO EXISTING 8" SANITARY MAIN WITH SW-303 MANHOLE.
   B. PROVIDE 6" PVC SANITARY SEWER LINE TO NEW BUILDING. PIPE MATERIAL TO BE SDR 23.5 WITH MINIMUM 1% SLOPE.
   C. BUILDING CONNECTION. SEE MECHANICAL PLANS FOR DETAILS.

3. STORM SEWER SYSTEM, PROVIDE THE FOLLOWING PER CITY OF POLK CITY STANDARD SPECIFICATIONS:
   A. UNDERGROUND DETENTION. SEE STORMTECH DETAILS.
   B. ROOF DRAIN LOCATION. VERIFY SIZE, LOCATION AND ELEVATION W/ MECHANICAL PLANS.

4. SITE ELECTRICAL SHOWN FOR COORDINATION PURPOSES ONLY. SEE SITE ELECTRICAL PLANS FOR DETAILS.
   A. LIGHT POLES.

PRELIMINARY
NOT FOR CONSTRUCTION

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2035
IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE: SITE UTILITY PLAN

PROJECT TITLE: CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
C500

V:\Projects\2022\22.0949.01\ACAD\CMPS_122.0949A_UTL.dwg ALEX MCKINNEY, SITE UTILITY PLAN, 2023/02/20, 12:43 PM, ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

ADS Advanced Drainage Systems, Inc.

ADS SiteAssist™ FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

POLK CITY CITY HALL

POLK CITY, IA, USA

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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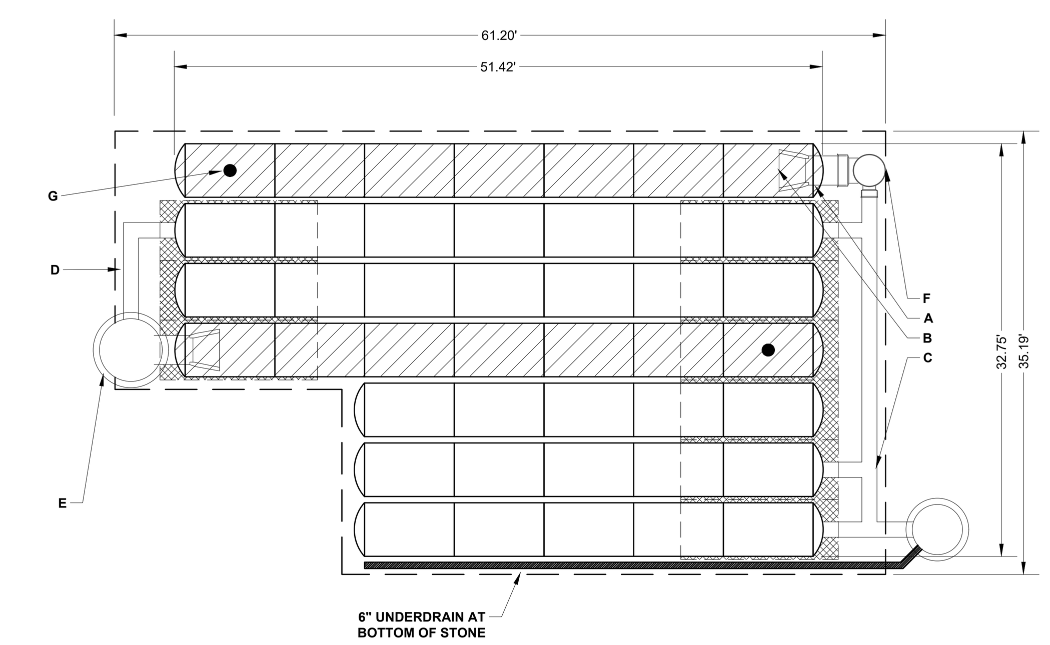
PROPOSED LAYOUT: NORTH	
43	STORMTECH SC-740 CHAMBERS
14	STORMTECH SC-740 END CAPS
12	STONE ABOVE (in)
6	STONE BELOW (in)
40	STONE VOID
4204	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)
1886	SYSTEM AREA (SF)
192.6	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: NORTH	
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	903.50
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	897.50
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	897.00
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	897.00
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	897.00
TOP OF STONE:	896.50
TOP OF SC-740 CHAMBER:	895.50
12" x 12" TOP MANIFOLD INVERT:	894.04
12" x 12" TOP MANIFOLD INVERT:	894.04
24" ISOLATOR ROW PLUS INVERT:	893.01
24" ISOLATOR ROW PLUS INVERT:	893.01
BOTTOM OF SC-740 CHAMBER:	893.00
BOTTOM OF STONE:	892.50

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED EZ END CAP	A	24" BOTTOM PREFABRICATED EZ END CAP, PART#: SC740ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	0.10"	
FLAMP	B	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC74024RAMP (TYP 2 PLACES)		
MANIFOLD	C	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
MANIFOLD	D	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
CONCRETE STRUCTURE	E	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		4.6 CFS IN
NYLOPLAST (INLET W/ ISO PLUS ROW)	F	30" DIAMETER (24.00" SUMP MIN)		5.7 CFS IN
INSPECTION PORT (2 PLACES)	G	4" SEE DETAIL		



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

NEW CITY HALL
POLK CITY, IA, USA
DATE: | DRAWN: LU
PROJECT #: | CHECKED: N/A
DATE | DRW | CHK | DESCRIPTION
StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473
0 10 20

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

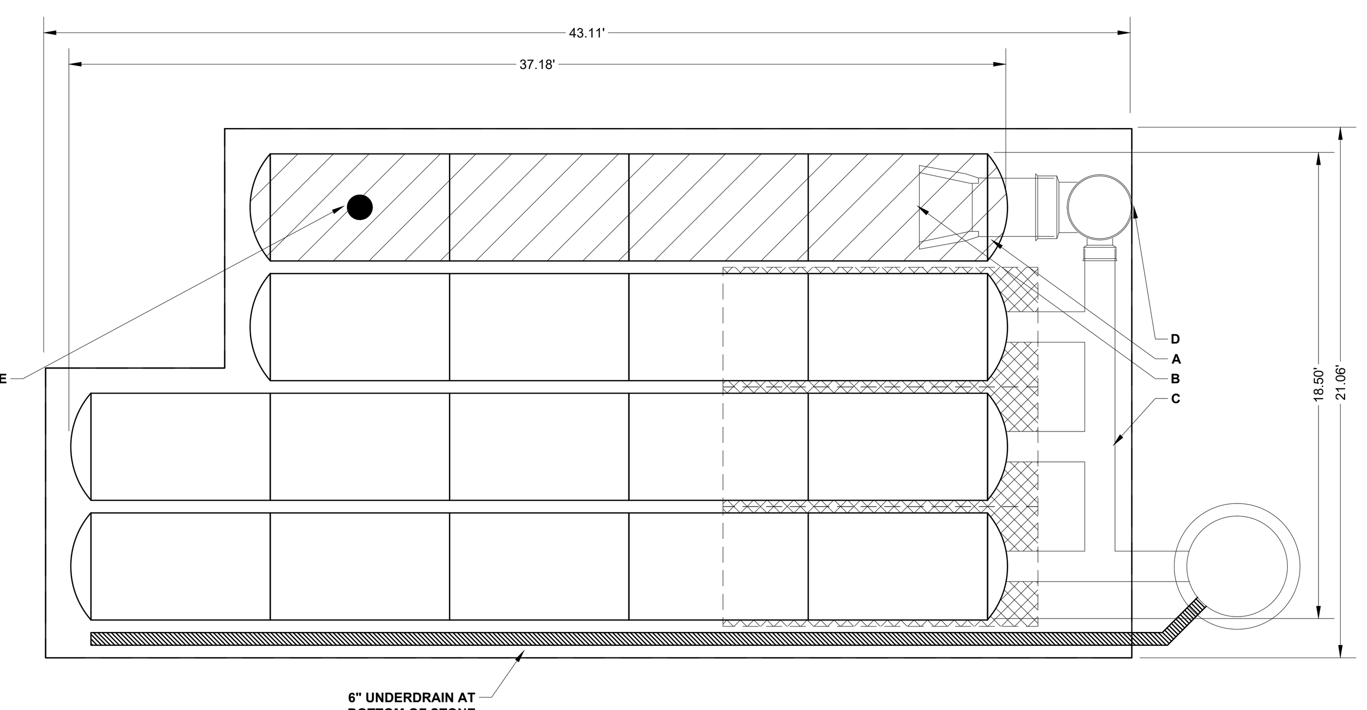
SHEET 2 OF 7

PROPOSED LAYOUT: SOUTH	
18	STORMTECH SC-740 CHAMBERS
8	STORMTECH SC-740 END CAPS
12	STONE ABOVE (in)
6	STONE BELOW (in)
40	STONE VOID
1837	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)
816	SYSTEM AREA (SF)
127.2	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: SOUTH	
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	906.75
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	900.75
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	900.25
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	900.25
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	900.25
TOP OF STONE:	899.75
TOP OF SC-740 CHAMBER:	898.75
12" x 12" TOP MANIFOLD INVERT:	897.29
24" ISOLATOR ROW PLUS INVERT:	896.26
BOTTOM OF SC-740 CHAMBER:	896.25
BOTTOM OF STONE:	895.75

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED EZ END CAP	A	24" BOTTOM PREFABRICATED EZ END CAP, PART#: SC740ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	0.10"	
FLAMP	B	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC74024RAMP		
MANIFOLD	C	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
NYLOPLAST (INLET W/ ISO PLUS ROW)	D	30" DIAMETER (24.00" SUMP MIN)		5.7 CFS IN
INSPECTION PORT	E	4" SEE DETAIL		



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
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NEW CITY HALL
POLK CITY, IA, USA
DATE: | DRAWN: LU
PROJECT #: | CHECKED: N/A
DATE | DRW | CHK | DESCRIPTION
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888-892-2694 | WWW.STORMTECH.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473
0 5 10

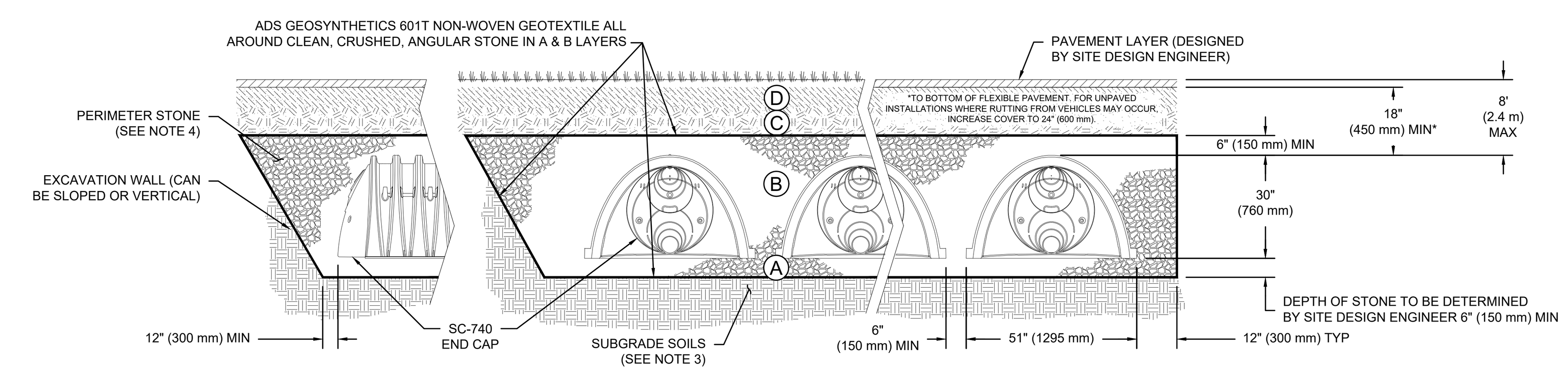
THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 3 OF 7

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

NEW CITY HALL
POLK CITY, IA, USA
DATE: | DRAWN: LU
PROJECT #: | CHECKED: N/A
DATE | DRW | CHK | DESCRIPTION
StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 4 OF 7

PRELIMINARY
NOT FOR CONSTRUCTION

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055
IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
STORMTECH DETAILS

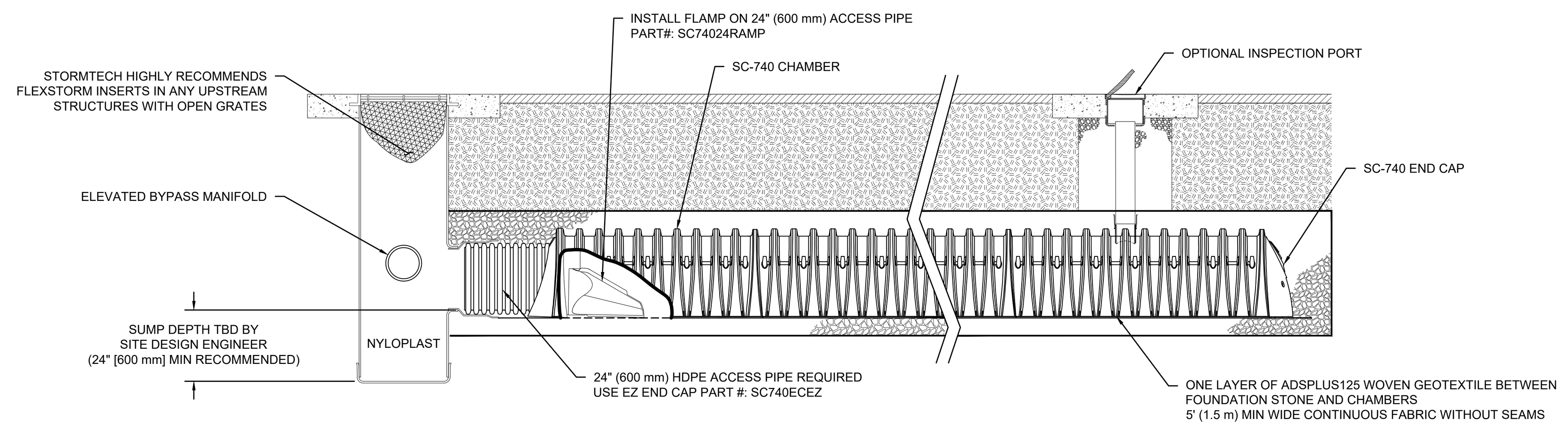
PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
C501

V:\Projects\2022\122.0949.01A\CADD\SP5_122.0949A_UTL-DTLS.dwg ALEX MCKINNEY, STORMTECH DETAILS, 2023/02/03, 12:43 PM, ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)



SC-740 ISOLATOR ROW PLUS DETAIL

NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

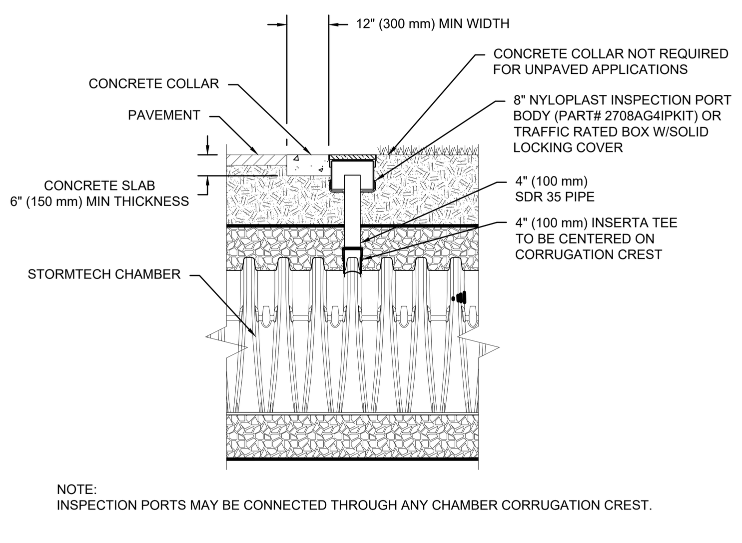
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

NTS

NEW CITY HALL
POLK CITY, IA, USA

DATE	DRW	CHK	DESCRIPTION

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ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473

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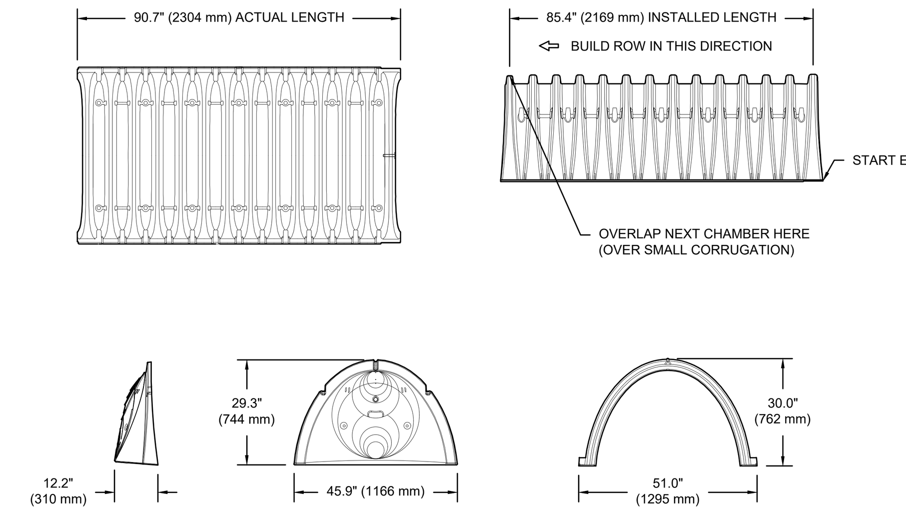
SHEET 5 OF 7

SC-740 TECHNICAL SPECIFICATION

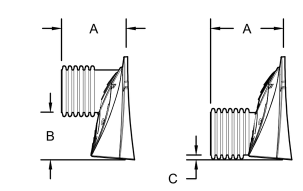
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740ECEZ*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

NEW CITY HALL
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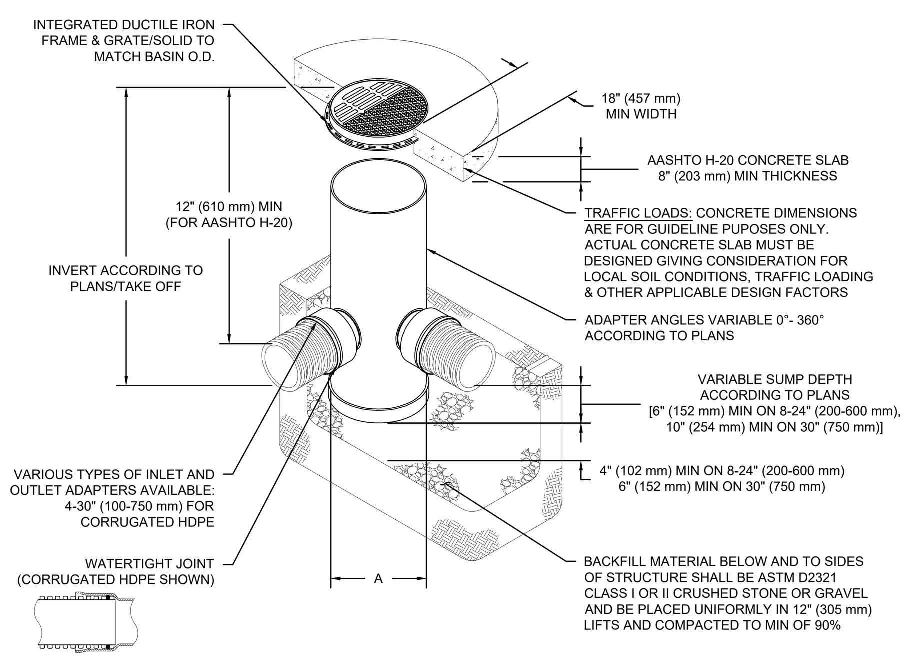
SHEET 6 OF 7

NYLOPLAST DRAIN BASIN

NTS



NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

NEW CITY HALL
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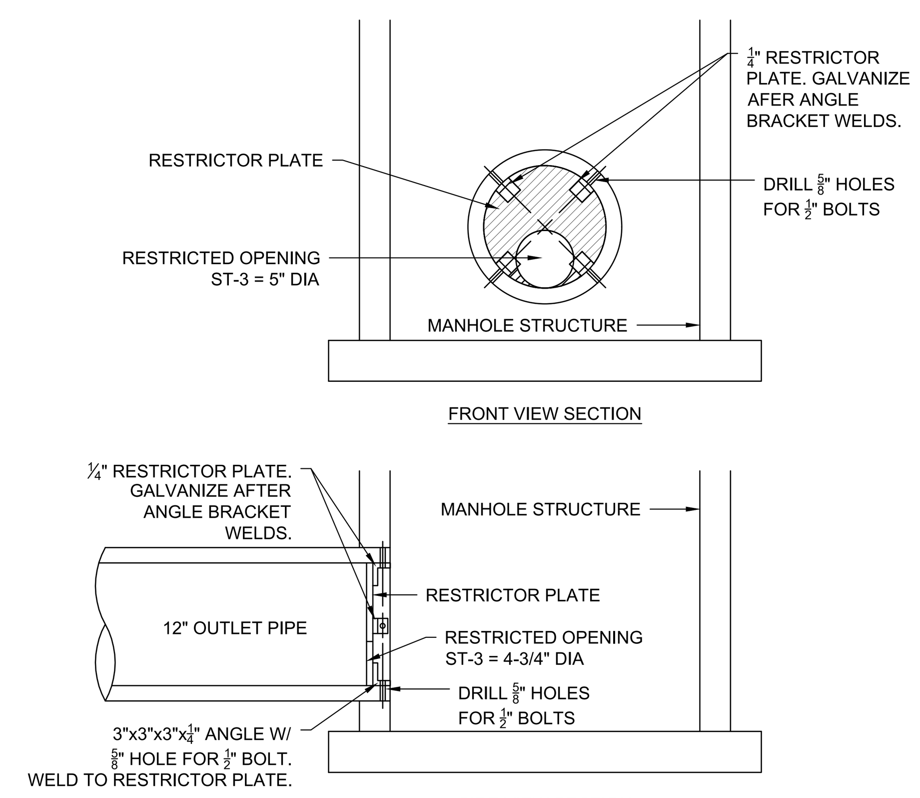
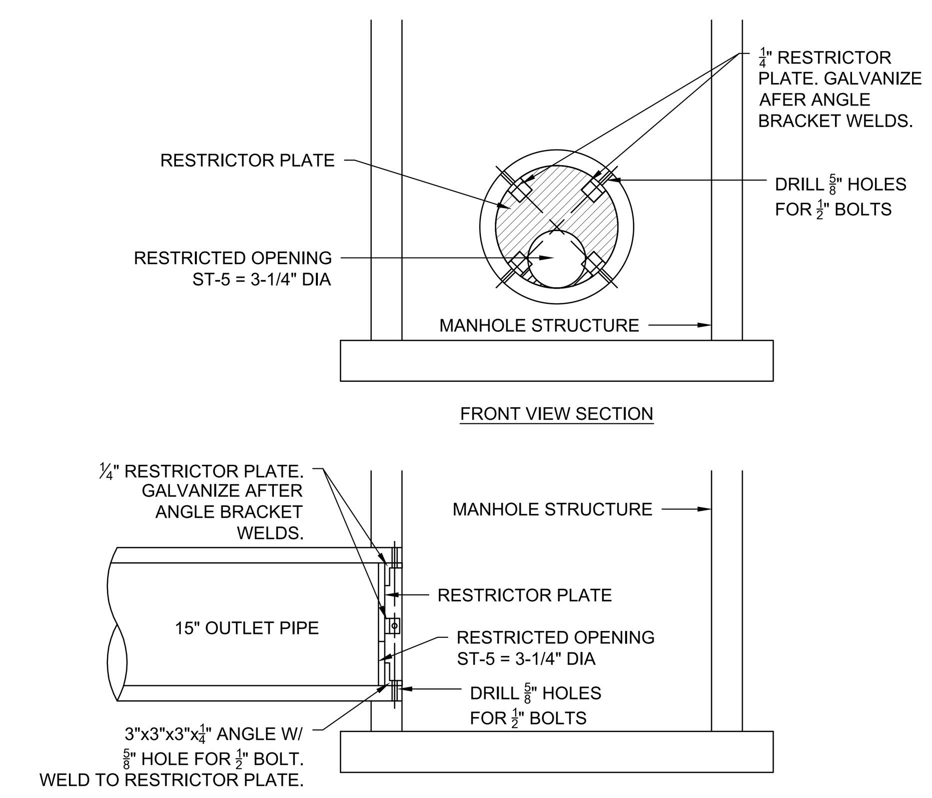
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473

SHEET 7 OF 7



1 / C502 — CIRCULAR RESTRICTION PLATE DETAIL (ST-3)

NO SCALE



2 / C502 — CIRCULAR RESTRICTION PLATE DETAIL (ST-5)

NO SCALE

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OCONOMOWOC, WI (262) 968-2055
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SHEET TITLE: STORMTECH DETAILS

PROJECT TITLE: CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

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SHEET C502

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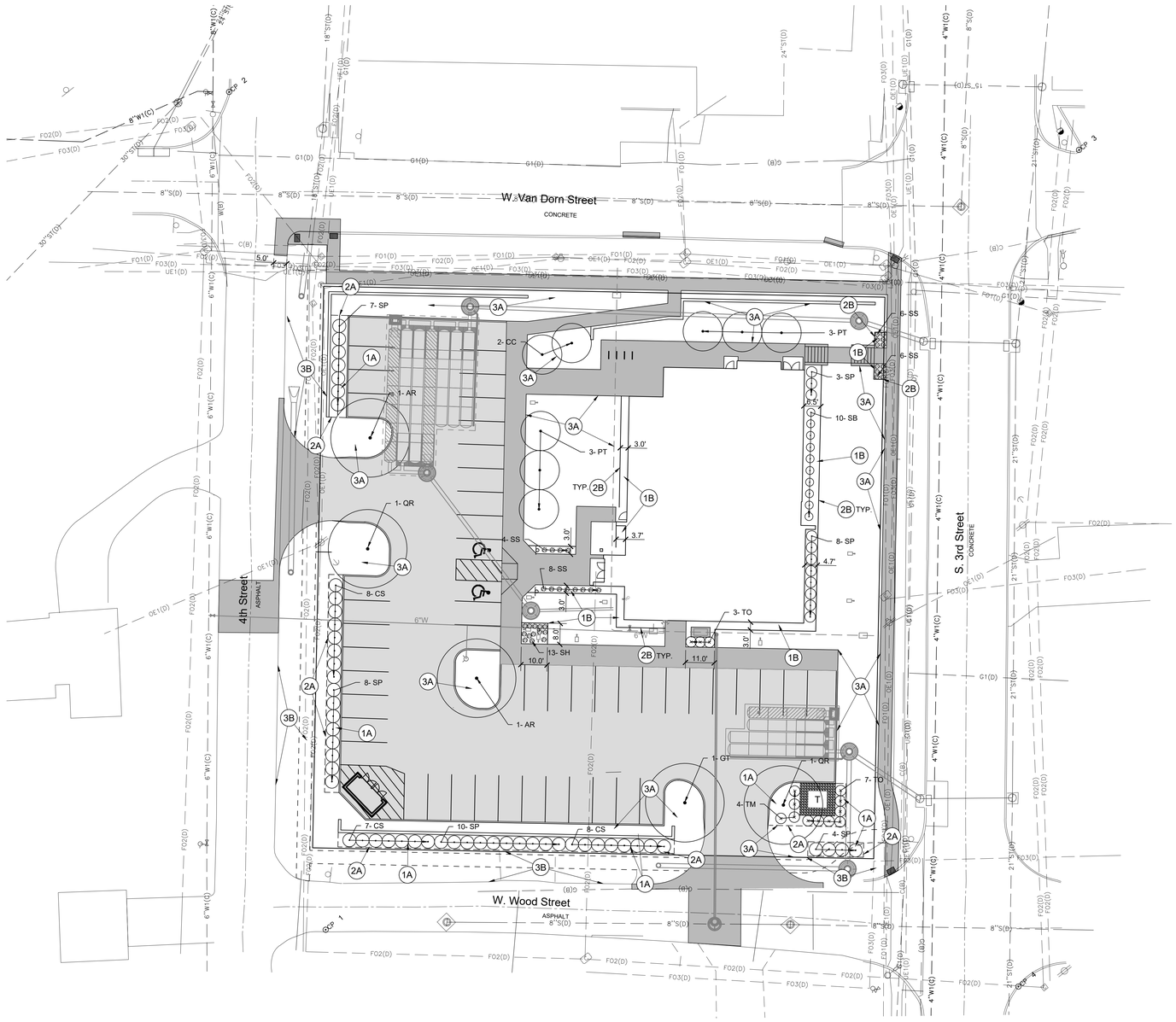
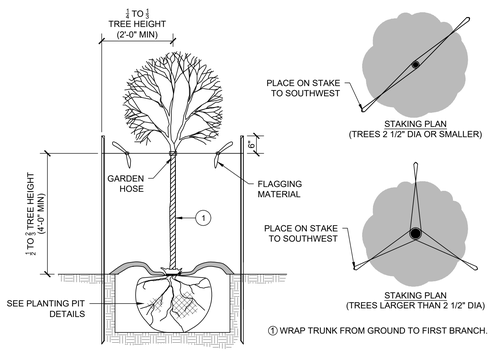
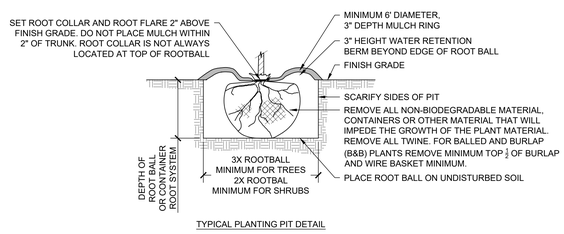




1 C600 DECIDUOUS TREES STAKING DETAIL

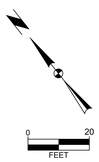
NO SCALE



TYPICAL PLANTING PIT DETAIL

2 C600 PLANTING PIT DETAILS

NO SCALE



LANDSCAPE PLAN GENERAL NOTES

A. THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

B. NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.

C. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION).

D. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR FOR ONE YEAR AFTER INSTALL, UNLESS SPECIFIED OTHERWISE.

E. TREES SHALL HAVE A 4' DIAMETER MULCH RING WITH 4-INCH DEPTH SPADE-CUT EDGE.

F. SET ALL PLANTS PLUMB. MAINTAIN THROUGHOUT WARRANTY. THIS SHALL INCLUDE PRUNING BROKEN BRANCHES, DEAD, AND/OR POOR BRANCHING. TREE PRUNING SHALL BE CONDUCTED BY A CERTIFIED ARBORIST AND TO BE IN ACCORDANCE WITH ANSI STANDARDS. IF APPLICABLE TO PROJECT, TREES SHOULD BE TRIMMED TO PROVIDE AT LEAST A 7' HT. CLEARANCE ALONG STREETS AND SIDEWALKS. REMOVE ALL FLAGGING AND LABELS AFTER OWNER APPROVAL.

G. UNLESS SPECIFIED OTHERWISE, SEED ALL AREAS DISTURBED BY CONSTRUCTION WITH SUDAS TYPE 1 PERMANENT LAWN MIX.

LANDSCAPE PLAN CONSTRUCTION NOTES

1. MULCH BED, PROVIDE THE FOLLOWING:
   A. SHREDDED HARDWOOD 4-INCH DEPTH. DO NOT USE WEED-BARRIER FABRIC AS AN UNDERLAY. TAPER MULCH DEPTH TOWARDS BED EDGING AND/OR PAVEMENT EDGE, EXPOSING 1-INCH HEIGHT OF EDGE.
   B. 1 1/2 - 3-INCH DIAMETER TRAP ROCK. 4-INCH DEPTH. UNDERLAY MULCH WITH WEED-BARRIER FABRIC. TAPER MULCH DEPTH TOWARDS BED EDGING AND/OR PAVEMENT EDGE, EXPOSING 1-INCH HEIGHT OF EDGE.

2. LANDSCAPE EDGING, PROVIDE THE FOLLOWING:
   A. SPADE-CUT. CUT VERTICALLY TO A DEPTH OF 4-INCHES.
   B. METAL. 3/16-INCH THICK X 5 1/2-INCH HEIGHT. COLOR BLACK. TOP OF EDGING TO BE FLUSH WITH GRADE.

3. TURF ESTABLISHMENT, PROVIDE THE FOLLOWING:
   A. SOD.
   B. SEED. HYDRAULICALLY SEED REMAINING DISTURBED AREAS BY USING TYPE 1 PERMANENT LAWN MIX WITH BONDED-FIBER MATRIX MULCH.

LANDSCAPE PLAN REQUIREMENTS

OPEN SPACE AREA
MINIMUM REQUIRED OPEN SPACE: 15% OF LOT.
TOTAL LOT AREA: 45,970 SF.
MINIMUM REQUIRED OPEN SPACE: 15% X 45,970 = 6,896 SF.
TOTAL IMPERVIOUS AREA: 29,183 SF.
TOTAL OPEN SPACE: 45,970 SF - 29,183 SF = 16,787 SF PROVIDED (36.5%).

OPEN SPACE LANDSCAPING
2 TREES AND 6 SHRUBS PER 3,000 SF OF REQUIRED OPEN SPACE.
6,896 MIN. OPEN SPACE/ 3,000 = 2.3 PLANTING UNIT MULTIPLIER..
TOTAL REQUIRED TREES: 2 X 2.3 = 4.6. 8 PROVIDED.
TOTAL REQUIRED SHRUBS: 6 X 2.3 = 13.8. 35 PROVIDED.

PARKING AREA LANDSCAPING
AT LEAST 20% OF VEHICULAR AREA. INCLUDING DRIVES AND PARKING, SHALL BE NATURALLY SHADED.
1 PROPOSED CANOPY TREE EQUALS 700 SF OF MATURE COVERAGE.
TOTAL VEHICULAR AREA: 16,400 SF.
REQUIRED SHADE SQUARE FOOTAGE: 16,400 SF X 20% = 3,280 SF.
REQUIRED CANOPY TREES: 3,280 SF/ 700 SF = 4.7 REQUIRED. 5 PROVIDED.

SCREENING
SEMI-OPAQUE TYPE "B" SCREENING SHALL BE REQUIRED ALONG W. WOOD ST.
DESIGN USES PROPOSED RETAINING WALL AND PROPOSED HEDGE OF SHRUBS THAT WILL REACH THE 3.5' HEIGHT AT MATURITY. OWNER REQUESTED ADDITIONAL SCREENING ALONG 4TH STREET.

PLANT SCHEDULE

QTY	KEY	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	COMMENTS
CANOPY TREES					
2	AR	Acer rubrum 'October Glory'	OCTOBER GLORY MAPLE	1 1/2" CAL.	B&B
3	GT	Gleditsia triacanthos f. inermis 'Shademaster'	SHADEMASTER HONEYLOCUST	1 1/2" CAL.	B&B
2	QR	Quercus rubra	RED OAK	1 1/2" CAL.	B&B
ORNAMENTAL TREES					
3	PT	Populus tremuloides	QUAKING ASPEN	8' HT.	B&B, MULTI-STEM
SHRUBS					
23	CS	Cornus stolonifera 'Arctic Fire'	ARCTIC FIRE RED-OSIER DOGWOOD	24" Ht.	#5 CONT.(5' O.C.)
10	SB	Spiraea betulifolia 'TorGold'	BIRCHLEAF SPIREA	24" Ht.	#5 CONT. (3' O.C.)
40	SP	Syringa 'Penda' BLOOMERANG	BLOOMERANG LILAC	24" Ht.	#5 CONT. (5' O.C.)
4	TM	Taxus x media 'Taunton'	TAUNTON YEW	24" Ht.	#5 CONT. (5' O.C.)
7	TO	Thuja occidentalis 'Emerald Green'	EMERALD GREEN ARBORVITAE	24" Ht.	#5 CONT. (4' O.C.)
ORNAMENTAL GRASSES/ PERNNIALS					
24	SS	Schizachyrium scoparium	LITTLE BLUESTEM GRASS	N/A	#1 CONT. (3' O.C.)
13	SH	Sporabolus heterolepis	PRAIRIE DROPSEED	N/A	#1 CONT. (3' O.C.)

NOTE: IF THERE'S A DISCREPANCY BETWEEN THE SCHEDULE QUANTITY AND QUANTITY OF PLANT SYMBOLS DRAWN ON PLAN, THE QUANTITY OF SYMBOLS DRAWN SHALL GOVERN. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FINAL PLANT QUANTITIES PRIOR TO BIDDING.

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IN ASSOCIATION WITH
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SHEET TITLE
LANDSCAPE PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

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SHEET
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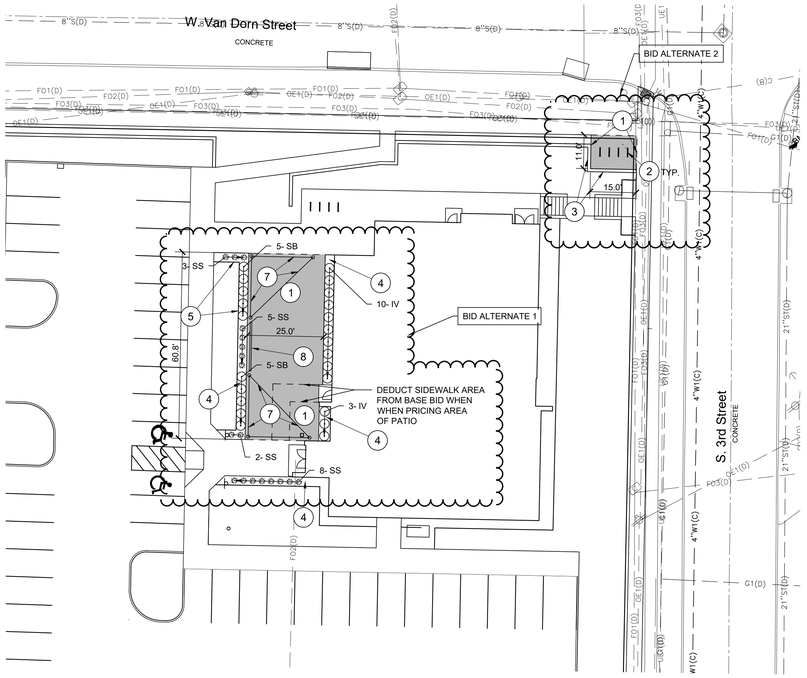


BID ALTERNATES 1 AND 2: LAYOUT AND DIMENSION PLAN

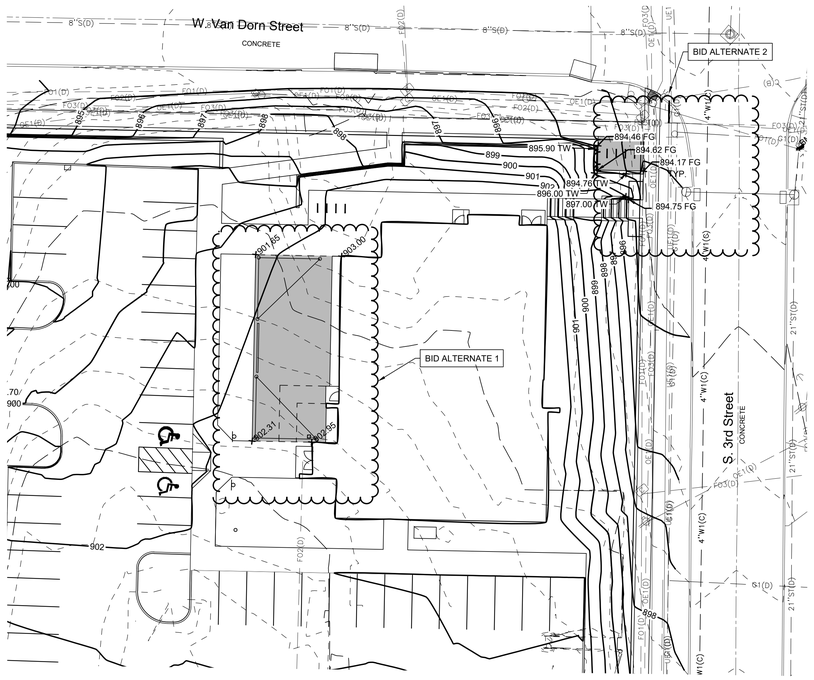
BID ALTERNATE 1 PLANT SCHEDULE

QTY	KEY	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	COMMENTS
SHRUBS					
13	IV	Itea virginica 'Little Henry'	LITTLE HENRY SWEETSPIRE	24" Ht.	#5 CONT.(5' O.C.)
10	SB	Spiraea betulifolia 'TorGold'	BIRCHLEAF SPIREA	24" Ht.	#5 CONT. (3' O.C.)
ORNAMENTAL GRASSES/ PERNNIALS					
18	SS	Schizachyrium scoparium	LITTLE BLUESTEM GRASS	N/A	#1 CONT. (3' O.C.)

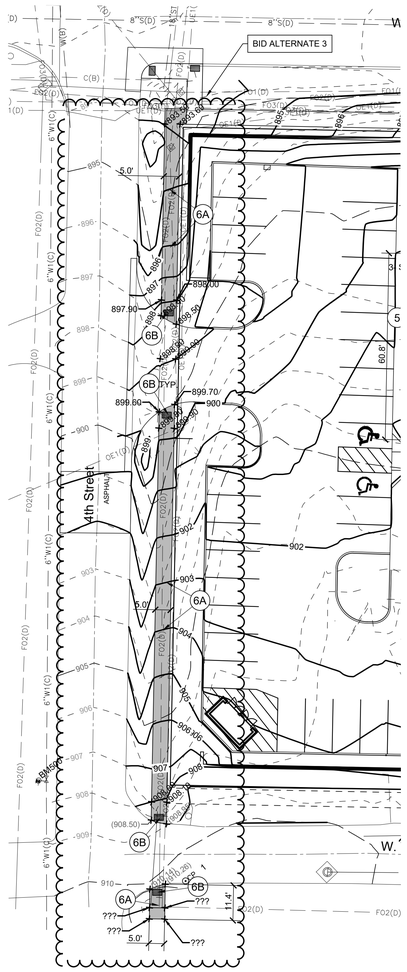
NOTE: IF THERE'S A DISCREPANCY BETWEEN THE SCHEDULE QUANTITY AND QUANTITY OF PLANT SYMBOLS DRAWN ON PLAN, THE QUANTITY OF SYMBOLS DRAWN SHALL GOVERN. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FINAL PLANT QUANTITIES PRIOR TO BIDDING. IF BID ALT 1 IS ACCEPTED, VERIFY PLANT QUANTITY DIFFERENCE BETWEEN TWO PLANS.

BID ALTERNATES CONSTRUCTION NOTES

1. 5" DEPTH PCC.
2. SINGLE-LOOP BIKE RACK (4).
3. REVISED REDI-ROCK RETAINING WALL LAYOUT.
4. PROVIDE 1 1/2 - 3-INCH DIAMETER TRAP ROCK. 4-INCH DEPTH. UNDERLAY MULCH WITH WEED-BARRIER FABRIC. TAPER MULCH DEPTH TOWARDS BED EDGING AND/OR PAVEMENT EDGE, EXPOSING 1-INCH HEIGHT OF EDGE.
5. ADDITIONAL METAL EDGING, REFER TO NOTE 2B ON SHEET C600.
6. PCC SIDEWALK, PROVIDE THE FOLLOWING:
   A. 4" DEPTH PCC, MAINTAIN MAXIMUM 1.5% CROSS-SLOPE.
   B. PEDESTRIAN RAMP WITH MAXIMUM SLOPE OF 8.33%. PROVIDE DETECTABLE WARNING PANELS, AS PER SUDAS DETAIL 7030.10, WHERE SHOWN.SIDEWALK SLOPE TO MATCH SLOPE OF 4TH STREET.
7. SKYWAYS® TRIANGLE SAIL, (20' X 20' X 20') SHADE STRUCTURE AND FOOTINGS. OWNER TO SELECT COLORS.
8. SCREEN WALL. PROVIDE 4' X 4' STEEL FRAMEWORK AND ASSOCIATED FOOTINGS. COLOR TO BE POWDER-COATED BLACK, WITH HORIZONTAL COMPOSITE DECKING BOARDS ON BOTH SIDES OF FRAMEWORK. PROVIDE 3" GAP BETWEEN COMPOSITE BOARDS. INSTALL WITH HIDDEN FASTENERS AT 16' L X 7' HT. OVERALL DIMENSIONS. COMPOSITE BOARD COLOR TO BE SELECTED FROM MANUFACTURER'S COLOR CHART.



BID ALTERNATES 1 AND 2 GRADING PLAN



BID ALTERNATE3: LAYOUT AND GRADING PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

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OCONOMOWOC, WI (262) 968-2035

IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
BID ALTERNATES

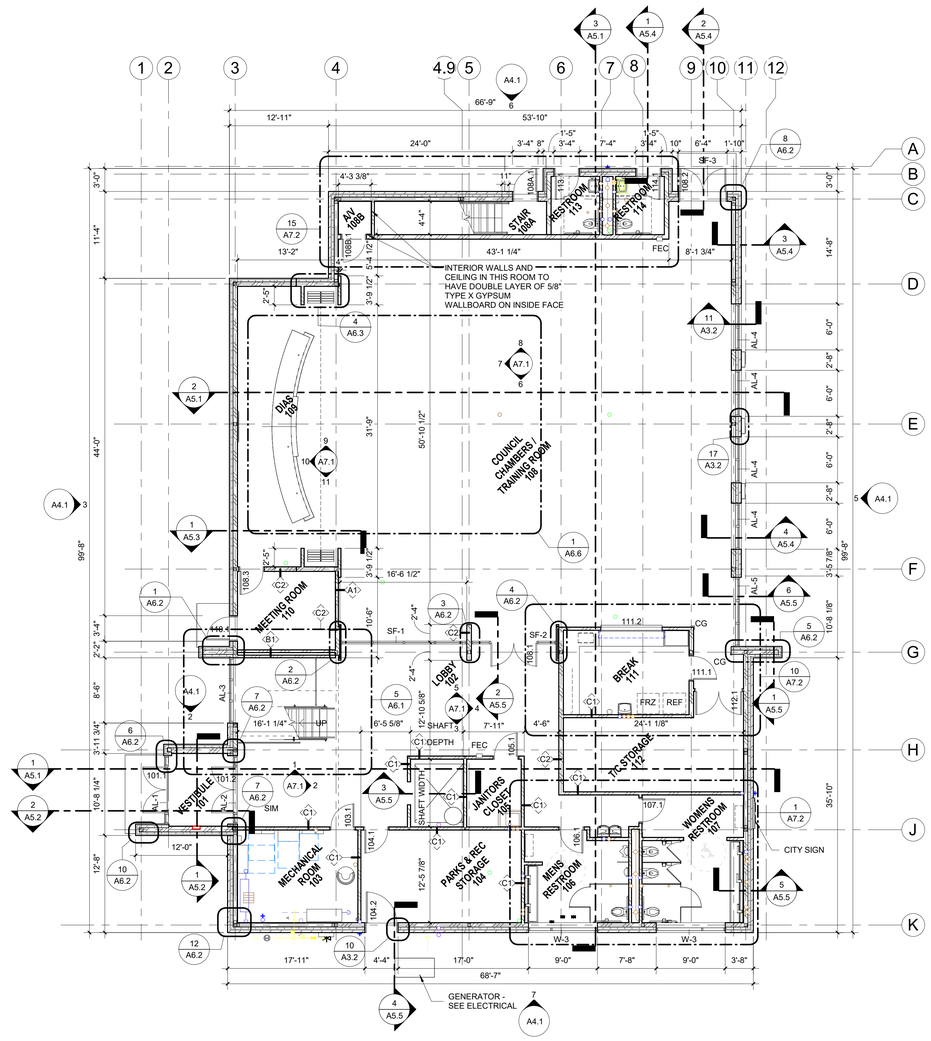
PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

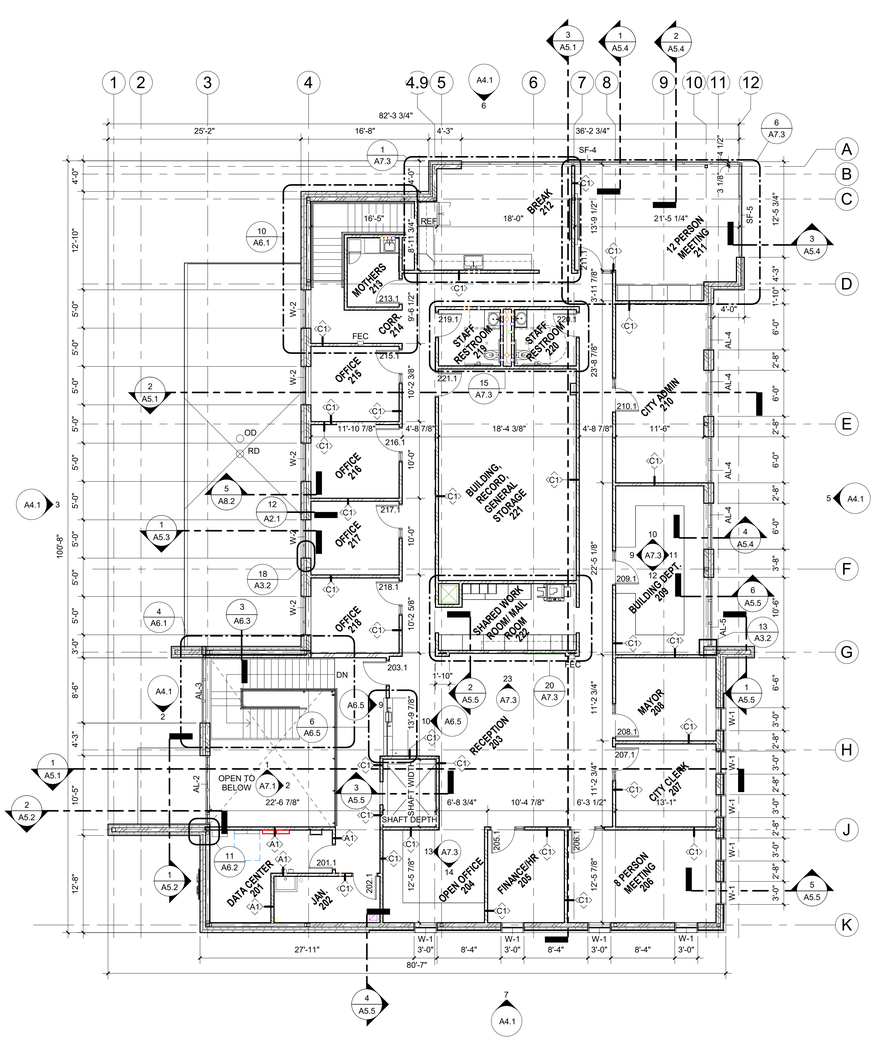
PROJECT NUMBER
2022213.02

SHEET
C700

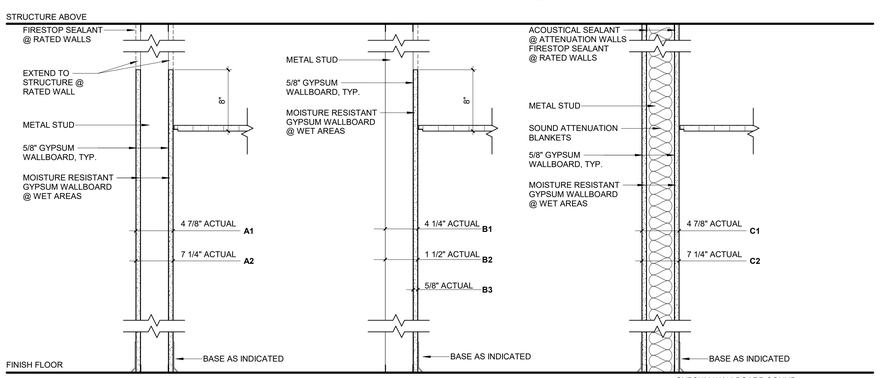
V:\Projects\2022\122.0949.01\ACAD\SP7_122.0949A_ALT-DIM-GRDG.dwg ALEX MCKINNEY, BID ALTERNATES, 2023/02/20, 12:43 PM, ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)



1 MAIN FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 UPPER FLOOR PLAN
SCALE: 1/8" = 1'-0"



TYPE "A" GYPSUM WALLBOARD WALLS

A1 - 3 5/8" METAL STUD WITH 1 LAYER 5/8" GYPSUM WALLBOARD ON EACH SIDE (4 7/8") (UL-U438, U465 @ FIRE RATED WALL, 1HR)
A2 - 6" METAL STUD WITH 1 LAYER 5/8" GYPSUM WALLBOARD ON EACH SIDE (7 1/4") (SIMILAR TO UL-U438, U465 @ FIRE RATED WALL, 1HR)

NOTES FOR ALL TYPE "A" WALLS
USE MOISTURE RESISTANT GYPSUM WALLBOARD AT TOILETS AND OTHER WET AREAS.

TYPE "B" GYPSUM WALLBOARD WALLS

B1 - 3 5/8" METAL STUD WITH 1 LAYER 5/8" GYPSUM WALLBOARD ON ONE SIDE (4 1/4")
B2 - 7/8" METAL FURRING CHANNEL WITH 1 LAYER 5/8" GYPSUM WALLBOARD ON ONE SIDE (1 1/2")
B3 - 1 LAYER 5/8" GYPSUM WALL BOARD (5/8")

NOTES FOR ALL TYPE "B" WALLS
USE MOISTURE RESISTANT GYPSUM WALLBOARD AT TOILETS AND OTHER WET AREAS.

TYPE "C" GYPSUM WALLBOARD SOUND ATTENUATION WALLS

C1 - 3 5/8" METAL STUD WITH 1 LAYER 5/8" GYPSUM WALLBOARD ON EACH SIDE (4 7/8") (UL-U419,U465 @ FIRE RATED WALL, 1HR)
C2 - 6" METAL STUD WITH 1 LAYER 5/8" GYPSUM WALLBOARD ON EACH SIDE (7 1/4") (SIMILAR TO UL-U419,U465 @ FIRE RATED WALL, 1HR)

NOTES FOR ALL TYPE "C" WALLS
* USE MOISTURE RESISTANT GYPSUM WALLBOARD AT TOILETS AND OTHER WET AREAS.
* SEAL AROUND ALL OPENINGS WITH ACOUSTICAL SEALANT, ELECTRICAL BOXES & ETC.

WALL TYPES

SCALE: 1 1/2" = 1'-0" NOTE: REFER TO UL FIRE-RESISTANCE DESIGN FOR ADDITIONAL INFORMATION @ FIRE RATED WALLS

FLOOR PLAN LEGEND

CG — CORNER GUARD
FEC — FIRE EXTINGUISHER CABINET (FEC)

WALL AND PARTITION NOTES

1. ALL WALL PARTITIONS ARE FULL HEIGHT U.O.N. SEE TYPICAL WALL TYPES.
2. AT TOP AND BOTTOM OF WALL, PROVIDE ACOUSTIC SEALANT AT WALLS WITH SOUND INSULATION AND FIRE-RATED SEALANT AT FIRE RATED WALLS.
3. HOLD GYPSUM BOARD 1/2" OFF ALL SLABS AND STRUCTURE.
4. FIRE & SMOKE RATED PARTITIONS ARE SHOWN ON THE CODE PLANS AND/OR FLOOR PLANS. SEE TYPICAL WALL TYPES.
5. FILL CONCRETE MASONRY UNIT CORES WITH SAND AT ALL MECHANICAL ROOMS.
6. PROVIDE SOLID BLOCKING BEHIND WALL MOUNTED GRAB BARS, RESTROOM ACCESSORIES, EQUIPMENT, CABINETS, SHELVES AND SIMILAR ITEMS ON GYPSUM BOARD PARTITIONS.
7. IN 1-HOUR RATED MASONRY WALLS, PROVIDE MINIMUM 4" SOLID MASONRY BEHIND RECESSED FIRE EXTINGUISHER CABINETS AND/OR ELECTRICAL CABINETS. IN RATED GYPSUM BOARD WALLS, PROVIDE RATED RECESSED FIRE EXTINGUISHER CABINETS.
8. CONTROL JOINTS NOT TO EXCEED 30' SPACING IN ANY DIRECTION FOR GYPSUM BOARD WALLS. WHERE CONTROL JOINTS ARE NOT DIMENSIONED, LOCATE JOINTS AT INTERSECTIONS OF INTERIOR WALLS AND COORDINATE WITH ARCHITECT. IF CONTROL JOINTS ARE NOT INDICATED ON THE FLOOR PLANS, CEILING PLANS, EXTERIOR ELEVATIONS, OR INTERIOR ELEVATIONS, OBTAIN APPROVAL OF LOCATIONS FROM THE ARCHITECT PRIOR TO CONSTRUCTION. SEE TYPICAL CONTROL JOINT DETAILS.

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IN ASSOCIATION WITH
IMEG
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SHEET TITLE
FLOOR PLANS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
A1.1

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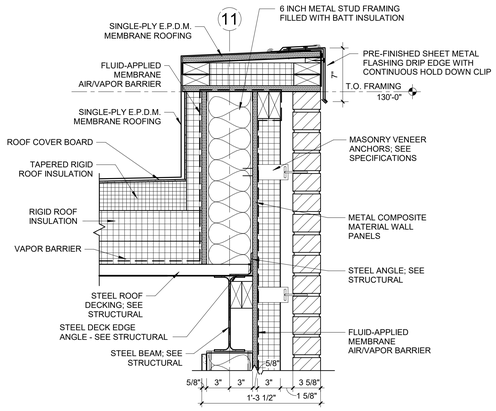
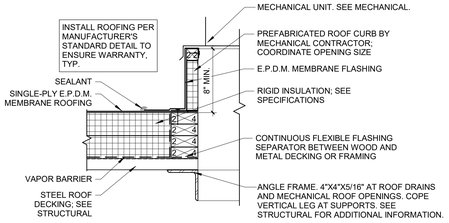
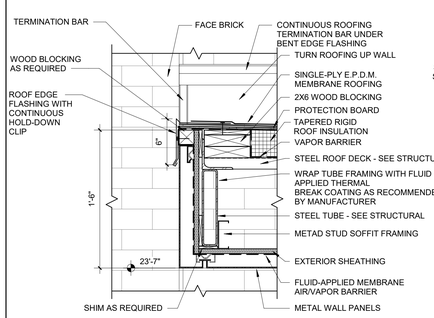


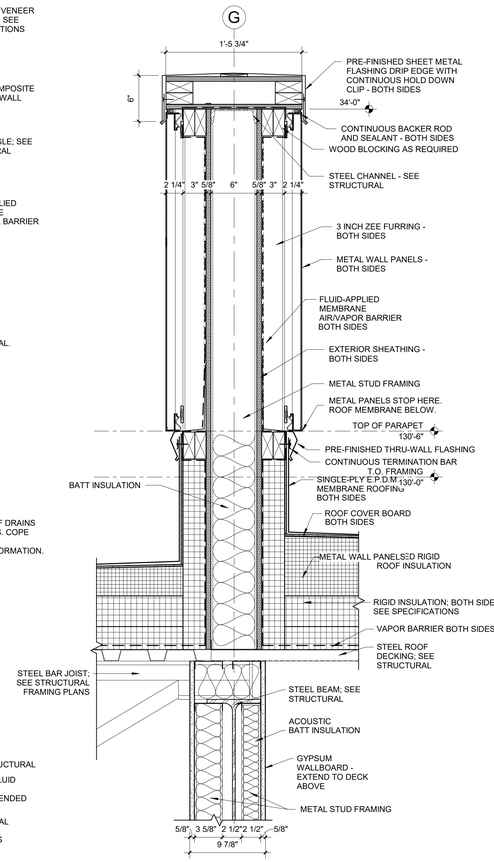
1 SOUTHEAST WALL PARAPET
SCALE: 1 1/2" = 1'-0"



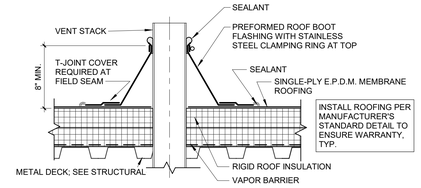
4 ROOF MECH. CURB
SCALE: 1 1/2" = 1'-0"



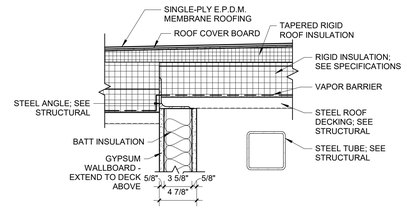
5 ENTRANCE - HIGH ROOF EDGE
SCALE: 1 1/2" = 1'-0"



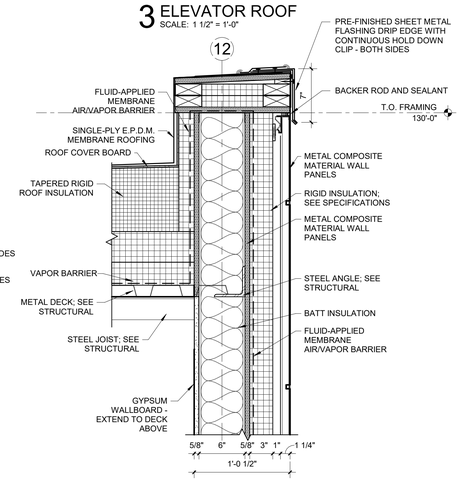
6 WALL AT LOBBY/COMMUNITY CENTER
SCALE: 1 1/2" = 1'-0"



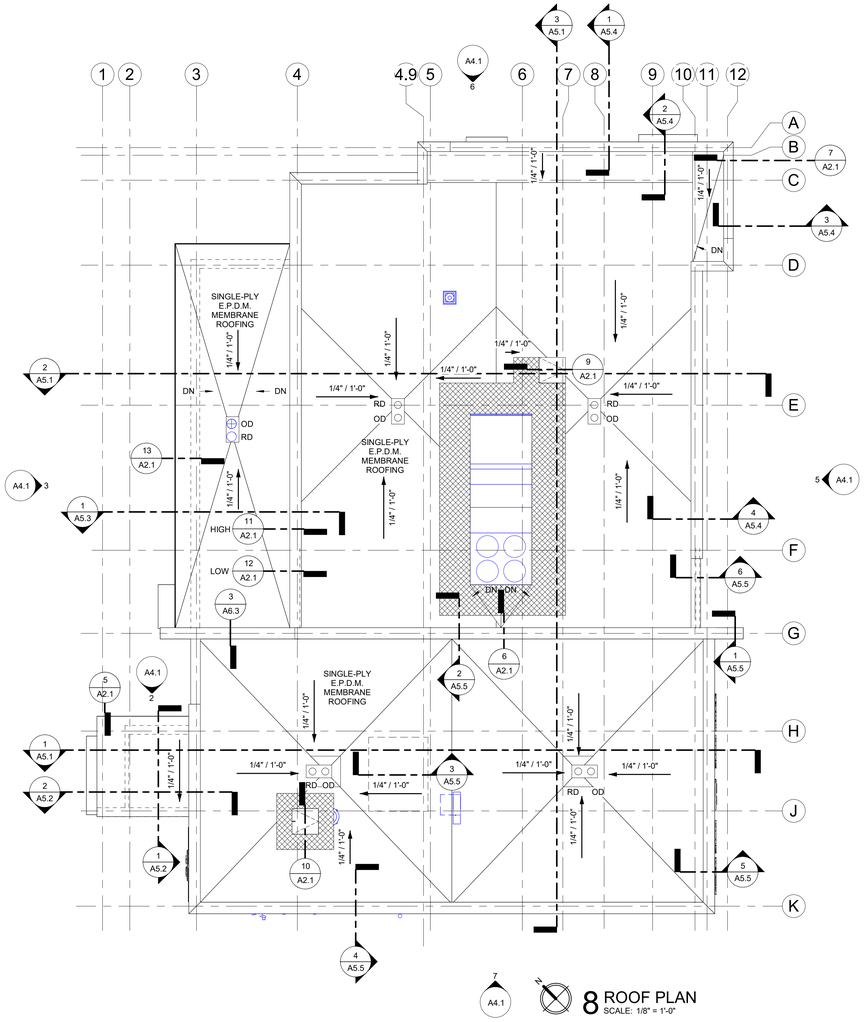
2 VENT STACK
SCALE: 1 1/2" = 1'-0"



3 ELEVATOR ROOF
SCALE: 1 1/2" = 1'-0"



7 METAL PANEL PARAPET
SCALE: 1 1/2" = 1'-0"



8 ROOF PLAN
SCALE: 1/8" = 1'-0"

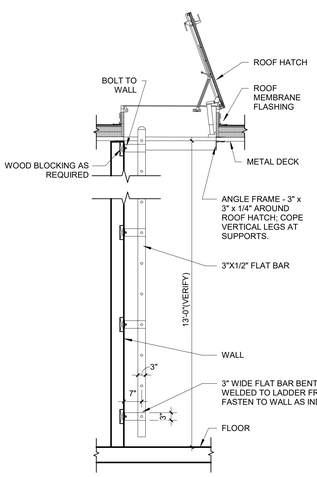
ROOF PLAN LEGEND

AVTR	-	ACID VENT THRU ROOF
CU	-	CONDENSING UNIT
DS	-	DOWN SPOUT
GRV	-	GRAVITY VENT
MAU	-	MAKE UP AIR UNIT
OD	-	OVERFLOW DRAIN
OS	-	OVERFLOW SCUPPER
PRV	-	POWER ROOF VENTILATOR
RAHU	-	ROOF TOP AIR HANDLING UNIT
RD	-	ROOF DRAIN
SD	-	SCUPPER DRAIN
TI	-	TAPERED INSULATION
VTR	-	VENT THRU ROOF

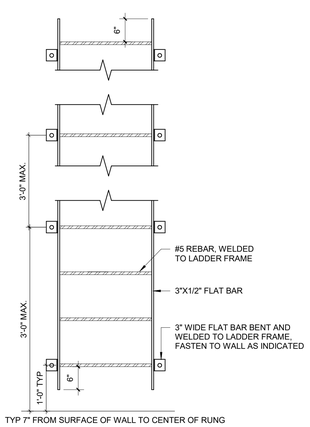
ROOF PAD

NO ROOF PENETRATION IN THIS AREA (4 FEET FROM FACE OF 2 HOUR FIRE WALL BELOW)

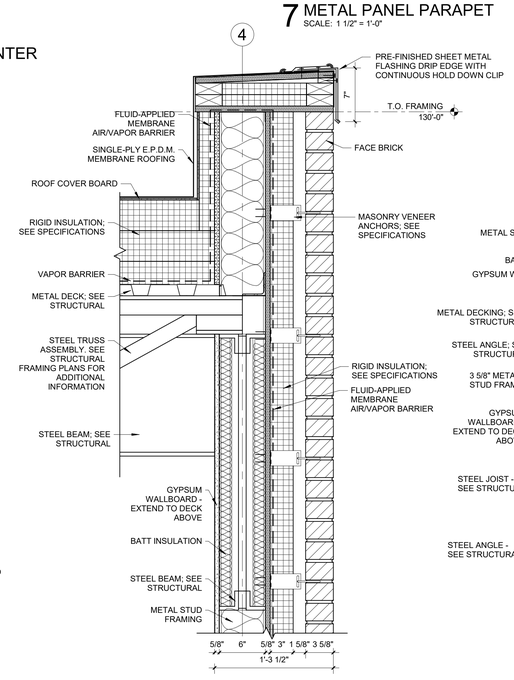
TAPERED INSULATION



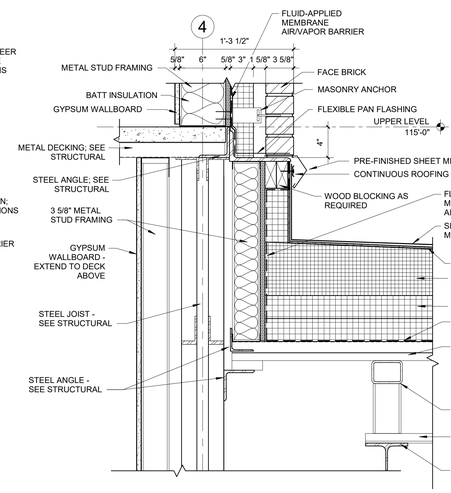
TYPCIAL ROOF ACCESS LADDER
9 SCALE: 1/2" = 1'-0"



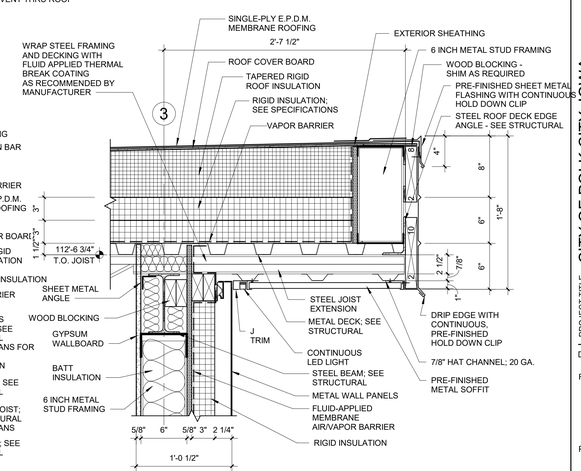
TYPICAL LADDER ELEVATION
10 SCALE: 3/4" = 1'-0"



PARAPET - BRICK
11 SCALE: 1 1/2" = 1'-0"



DIAS WALL CONNECTION
12 SCALE: 1 1/2" = 1'-0"



DIAS ROOF EDGE
13 SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
ROOF PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

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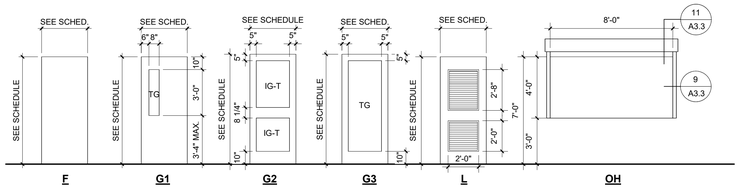
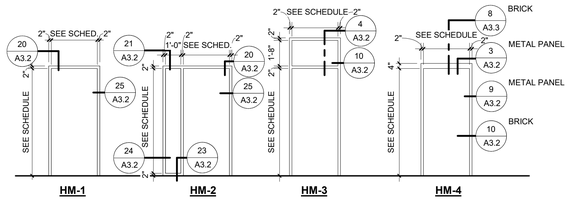
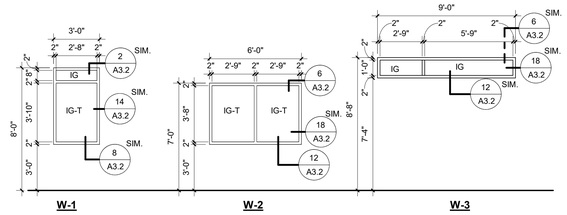


** DOOR TYPE ELEVATIONS
SCALE: 1/4" = 1'-0"



** FRAME TYPE ELEVATIONS - HM
SCALE: 1/4" = 1'-0"



** WINDOW TYPE ELEVATIONS
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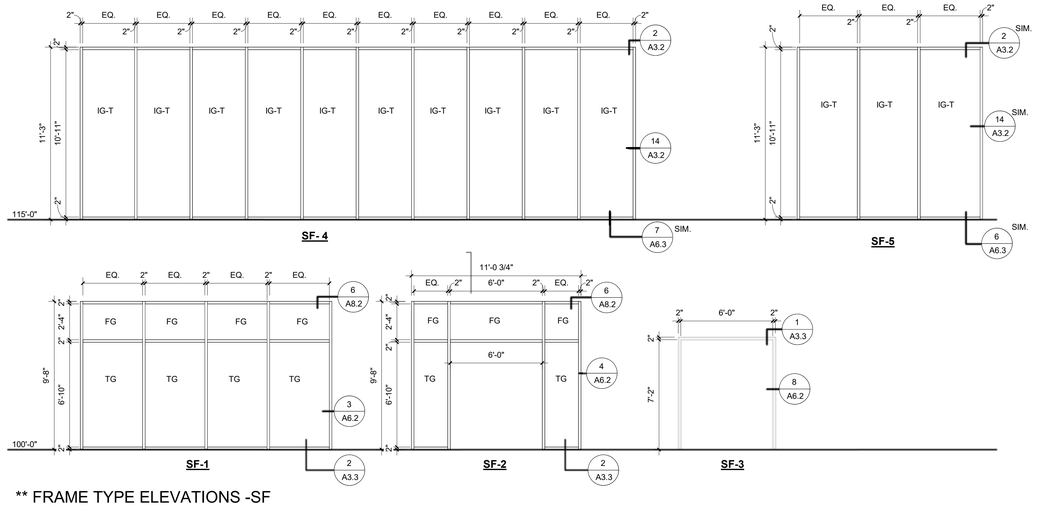

** FRAME TYPE ELEVATIONS -SF
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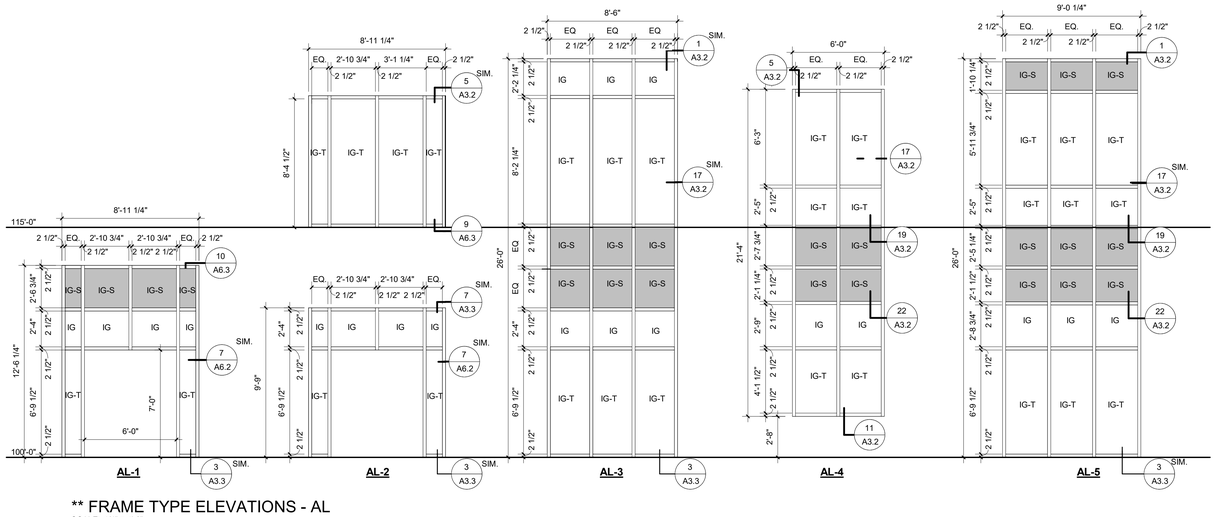

** FRAME TYPE ELEVATIONS - AL
SCALE: 1/4" = 1'-0"

DOOR NOTES

1. ALL DOORS TO BE 1-3/4" THICK U.O.N.
2. ADJUST DOOR CLOSURES SO THAT MAXIMUM EFFORTS TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR INTERIOR DOORS (EXCEPT FIRE DOORS) AS PER STATE HANDICAP REQUIREMENTS.
3. RATED DOORS ARE TO BE SELF-CLOSING AND POSITIVE LATCHING.
4. ALL FIRE-RATED ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND AT THE TOP.
5. GLASS AND GLAZING SHALL COMPLY WITH THE CURRENT INTERNATIONAL BUILDING CODE (IBC) FOR HUMAN IMPACT. GLASS DOORS, ADJACENT PANELS, AND ALL GLAZED OPENINGS WITHIN 18" OF ADJACENT FLOOR SHALL BE OF GLASS APPROVED FOR IMPACT HAZARD.
6. DIMENSIONS FOR DOORS, WINDOWS, AND LOUVERS IN CONCRETE MASONRY AND PRECAST WALLS ARE NOMINAL FRAME SIZES. COORDINATE MANUFACTURER'S REQUIREMENTS WITH ACTUAL ROUGH OPENING DIMENSIONS.
7. WHERE METAL THRESHOLDS ARE CUT TO FIT DOOR JAMBS, PROVIDE SEALANT ALONG EDGES OF THRESHOLD AT JAMB.
8. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED DOOR ASSEMBLIES.

DOOR / WINDOW SCHEDULE LEGEND

COMMENTS

(1) COILING COUNTER DOOR.
(2) EXTERIOR INSULATED DOOR.

MATERIAL

AL	ALUMINUM
OH	OVERHEAD COILING DOOR
GHM	HOLLOW METAL - GALVANIZED
HM	HOLLOW METAL
WD	WOOD

GLAZING

IG	INSULATED GLAZING
IG-S	INSULATED GLAZING - SPANDREL
IG-T	INSULATED GLAZING - TEMPERED
TG	TEMPERED GLAZING
FG	FLOAT GLASS

DOOR SCHEDULE

	DOOR					FRAME			
	SIZE					SIZE			
NUMBER	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	GLAZING	FRAME WIDTH	FRAME HEIGHT	FRAME TYPE	COMMENTS
101.1	6'-0"	7'-0"	G2	AL	IG-T	6'-4"	7'-2"	AL-1	
101.2	6'-0"	6'-9 1/2"	G2	AL	IG-T	6'-4"	7'-2"	AL-2	
103.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
104.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
104.2	4'-0"	7'-0"	F	GHM	IG	4'-4"	9'-0"	HM-3	2
105.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
106.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
107.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
108.1	6'-0"	7'-0"	G2	AL	TG	6'-4"	7'-2"	SF-2	
108.2	6'-0"	7'-2"	G2	AL	IG-T	6'-4"	7'-4"	SF-3	
108.3	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
108A.1	3'-0"	7'-0"	F	GHM		3'-4"	7'-4"	HM-1	2
108B.1	3'-0"	7'-0"	L	WD		3'-4"	7'-2"	HM-1	
110.1	3'-0"	7'-0"	F	GHM		3'-4"	7'-4"	HM-1	2
111.1	3'-0"	7'-0"	G1	WD	TG	3'-4"	7'-2"	HM-1	
111.2	8'-0"	4'-0"	OH	AL					1
112.1	6'-0"	7'-0"	F	WD		6'-4"	7'-2"	HM-1	
113.1	3'-0"	7'-0"	F	GHM		3'-4"	7'-4"	HM-1	2
114.1	3'-0"	7'-0"	F	GHM		3'-4"	7'-4"	HM-1	2
201.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
202.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
203.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
205.1	3'-0"	7'-0"	G3	WD	TG	3'-4"	7'-2"	HM-2	
206.1	3'-0"	7'-0"	G3	WD	TG	3'-4"	7'-2"	HM-2	
207.1	3'-0"	7'-0"	G3	WD	TG	3'-4"	7'-2"	HM-2	
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209.1	3'-0"	7'-0"	G3	WD	TG	3'-4"	7'-2"	HM-2	
210.1	3'-0"	7'-0"	G3	WD	TG	3'-4"	7'-2"	HM-2	
211.1	3'-0"	7'-0"	G3	WD	TG	3'-4"	7'-2"	HM-2	
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218.1	3'-0"	7'-0"	G3	WD	TG	3'-4"	7'-2"	HM-2	
219.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
220.1	3'-0"	7'-0"	F	WD		3'-4"	7'-2"	HM-1	
221.1	3'-0"	7'-0"	G1	WD	TG	3'-4"	7'-2"	HM-1	

*SEE TRASH ENCLOSURE DETAILS SHEET FOR HOLLOW METAL DOORS NOT LISTED ABOVE.

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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES

SHEET TITLE
DOOR FINISH SCHEDULE

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

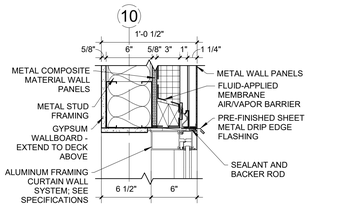
DATE ISSUED 2/13/2023

REV. NO. DATE

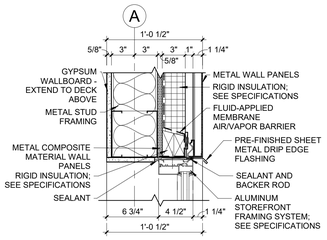
PROJECT NUMBER
2022213.02

SHEET
A3.1

C:\Users\noahs\Documents\2022213.02 Polk City New City Hall CF R22_Revised_noahsHA7RM.rvt
2/3/2023 3:24:43 PM



1 METAL PANEL CURTAIN WALL HEAD
SCALE: 1 1/2" = 1'-0"



2 METAL PANEL STOREFRONT HEAD
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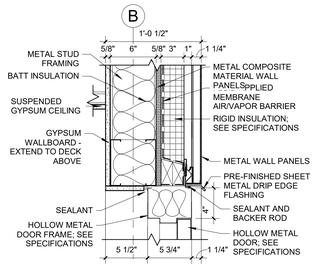

3 HM DOOR HEAD
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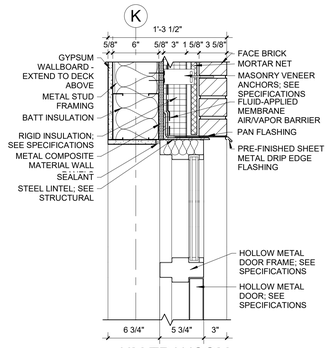

4 HM TRANSOM CONNECTION
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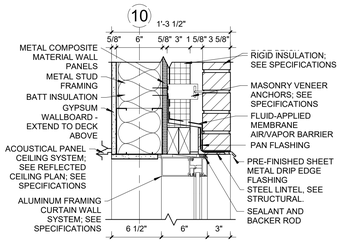

5 ALUMINUM CURTAIN WALL HEAD
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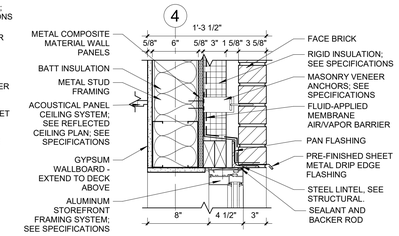
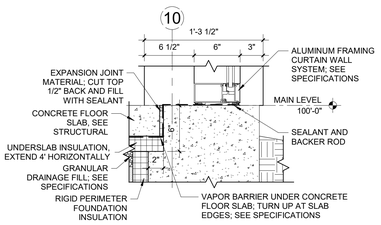


6 ALUMINUM STOREFRONT HEAD
SCALE: 1 1/2" = 1'-0"



7 ALUMINUM CURTAIN WALL FOUNDATION CONNECTION
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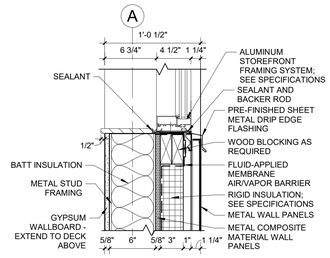

8 METAL PANEL STOREFRONT SILL
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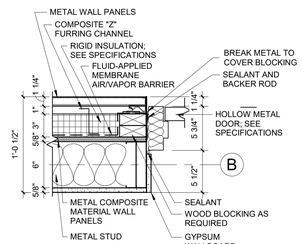

9 HM DOOR JAMB
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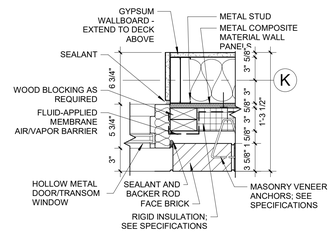

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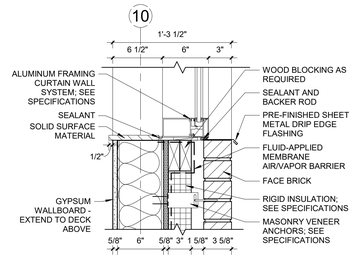

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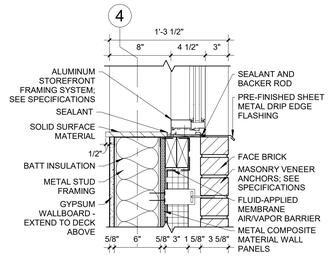

12 STOREFRONT SILL
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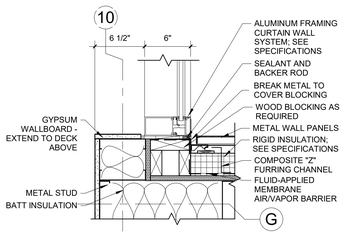
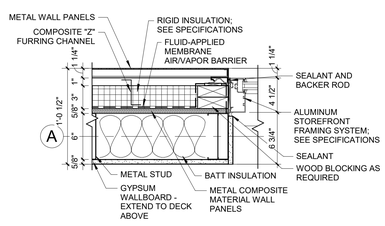
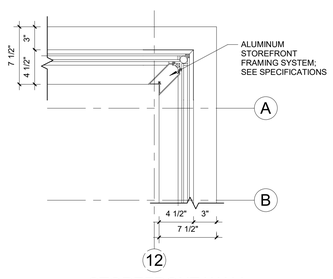


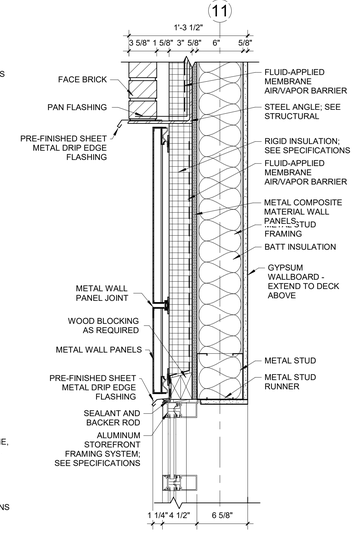
13 ALUMINUM CURTAIN WALL WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



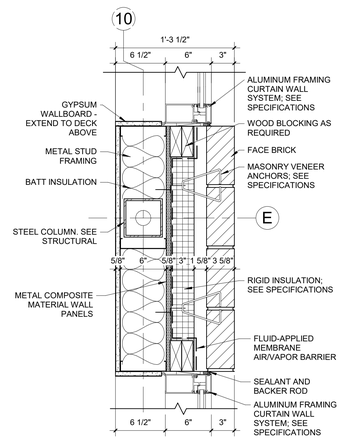
14 METAL PANEL STOREFRONT WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



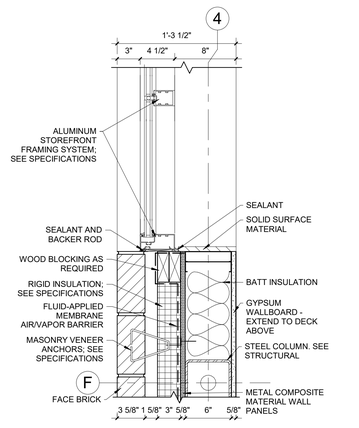
15 STOREFRONT WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



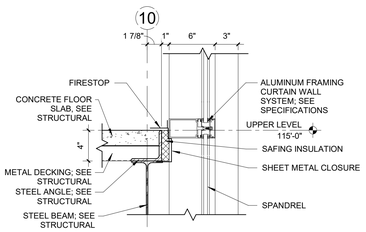
16 METAL PANEL IN BRICK WALL
SCALE: 1 1/2" = 1'-0"



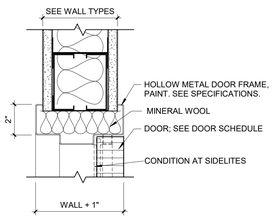
17 ALUMINUM CURTAIN WALL JAMB
SCALE: 1 1/2" = 1'-0"



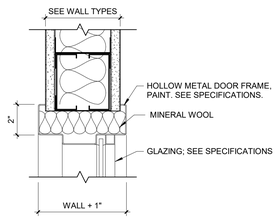
18 ALUMINUM STOREFRONT WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



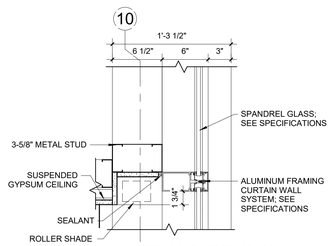
19 ALUMINUM CURTAIN WALL MULLION TO FLOOR
SCALE: 1 1/2" = 1'-0"



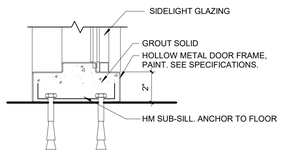
20 HOLLOW METAL HEAD
SCALE: 3" = 1'-0"



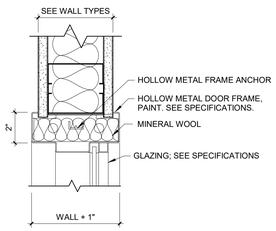
21 HM SIDELITE HEAD
SCALE: 3" = 1'-0"



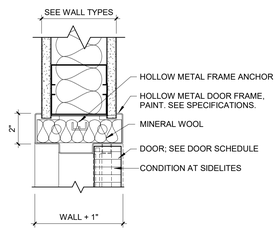
22 ALUMINUM CURTAIN WALL MULLION TO BULKHEAD CEILING
SCALE: 1 1/2" = 1'-0"



23 HM FRAME SILL
SCALE: 3" = 1'-0"



24 HM SIDELIGHT JAMB
SCALE: 3" = 1'-0"



25 HOLLOW METAL JAMB
SCALE: 3" = 1'-0"

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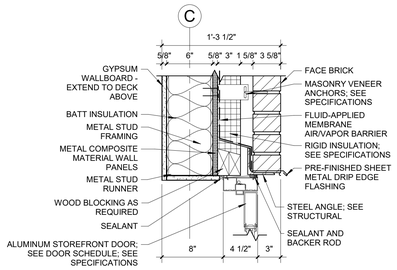
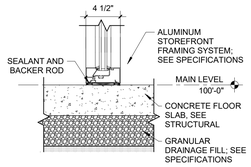
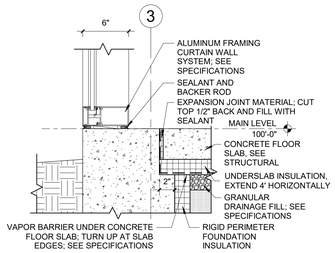


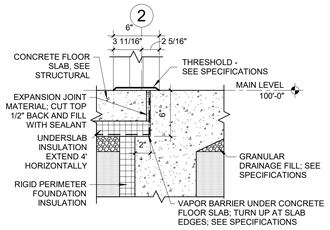
1 STOREFRONT DOOR HEAD
SCALE: 1 1/2" = 1'-0"



INTERIOR STOREFRONT
2 SILL DETAIL
SCALE: 1 1/2" = 1'-0"



CURTAIN WALL FRAME
3 FOUNDATION CONNECTION
SCALE: 1 1/2" = 1'-0"



4 CURTAIN WALL ENTRY
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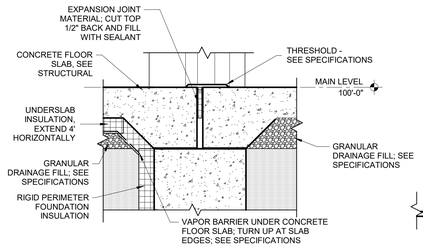

5 DOOR TO FOUNDATION
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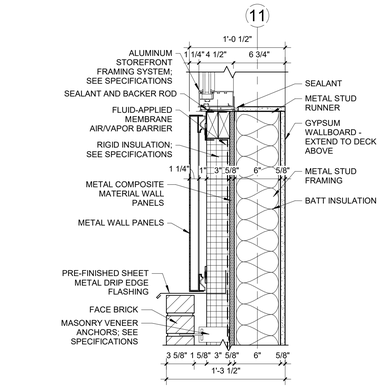

6 BRICK TO METAL PANEL
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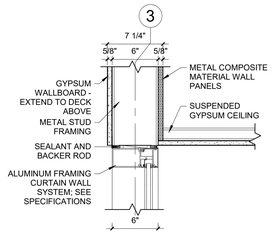

7 INTERIOR ENTRY HEAD
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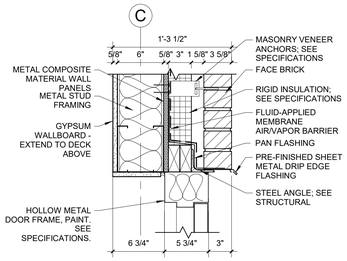

8 BRICK TO DOOR FRAME
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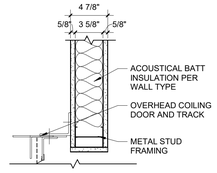
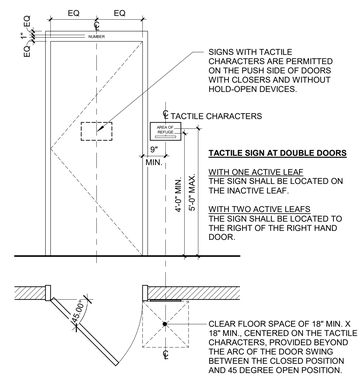
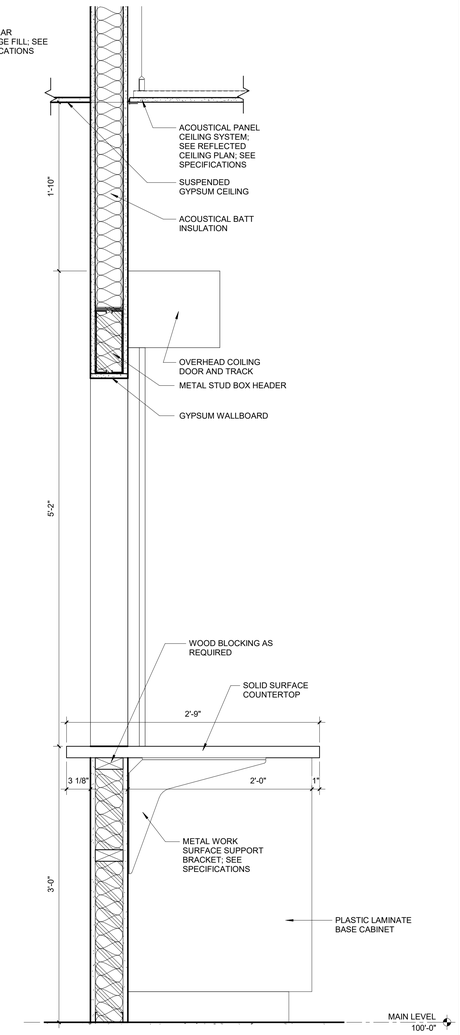


9 COILING DOOR JAMB
SCALE: 1 1/2" = 1'-0"

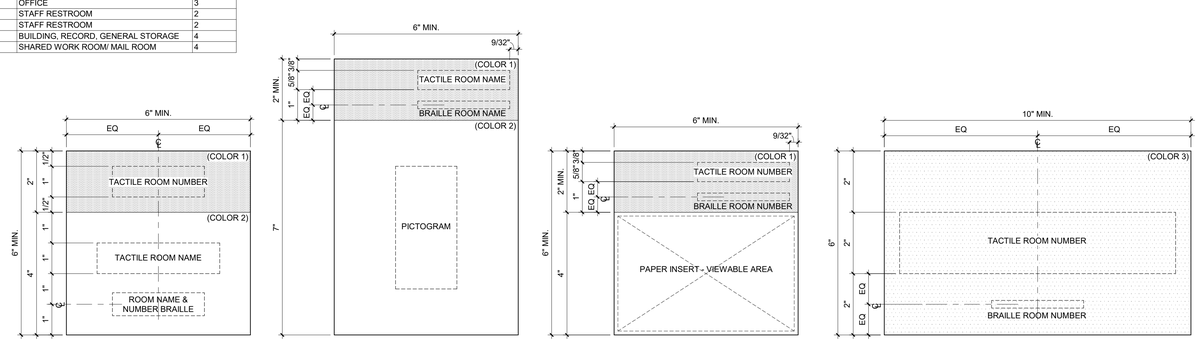
SIGNAGE SCHEDULE		
Number	Name	Sign Type
101	VESTIBULE	4
102	LOBBY	
103	MECHANICAL ROOM	4
104	PARKS & REC STORAGE	4
105	JANITORS CLOSET	4
106	MENS RESTROOM	2
107	WOMENS RESTROOM	2
108	COUNCIL CHAMBERS / TRAINING ROOM	3
108A	STAIR	4
108B	A/V	4
109	DIAS	3
110	MEETING ROOM	3
111	BREAK	3
112	T/C STORAGE	4
113	RESTROOM	2
114	RESTROOM	2
201	DATA CENTER	4
202	JAN.	4
203	RECEPTION	3
204	OPEN OFFICE	3
205	FINANCE/HR	3
206	8 PERSON MEETING	3
207	CITY CLERK	3
208	MAYOR	3
209	BUILDING DEPT.	3
210	CITY ADMIN	3
211	12 PERSON MEETING	3
212	BREAK	3
213	MOTHERS	3
214	CORR.	
215	OFFICE	3
216	OFFICE	3
217	OFFICE	3
218	OFFICE	3
219	STAFF RESTROOM	2
220	STAFF RESTROOM	2
221	BUILDING, RECORD, GENERAL STORAGE	4
222	SHARED WORK ROOM/ MAIL ROOM	4



10 SIGNAGE TYPES
SCALE: 1/2" = 1'-0"



11 COILING DOOR
SCALE: 1 1/2" = 1'-0"



TYPE 1 TYPE 2 TYPE 3 TYPE 4

12 SIGNAGE TYPES
SCALE: 6" = 1'-0"

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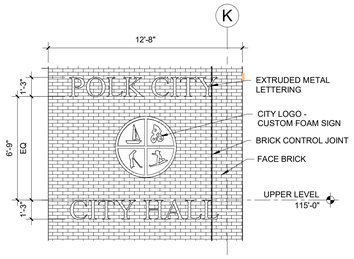
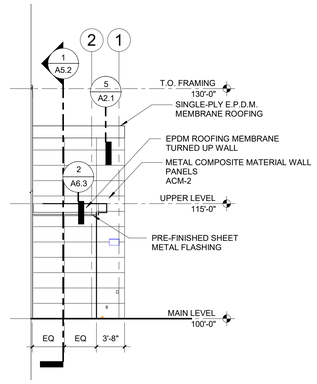
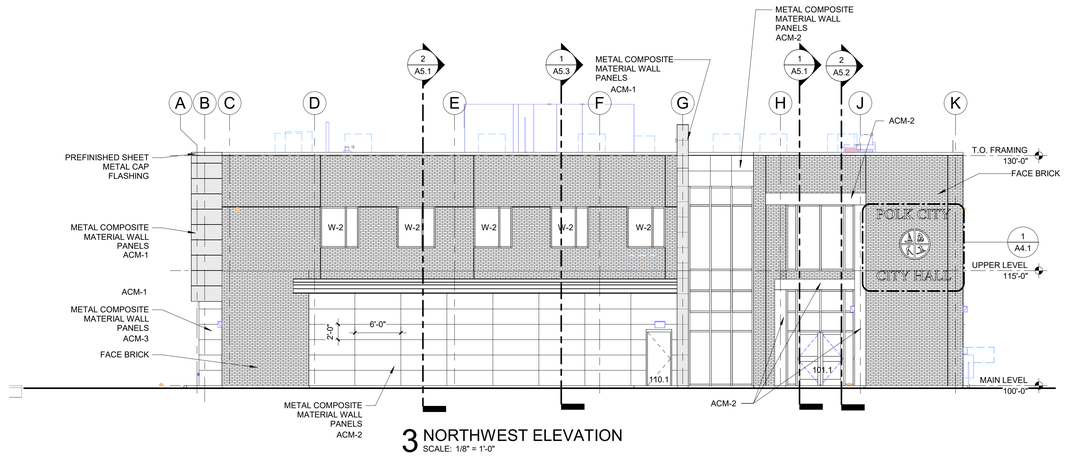


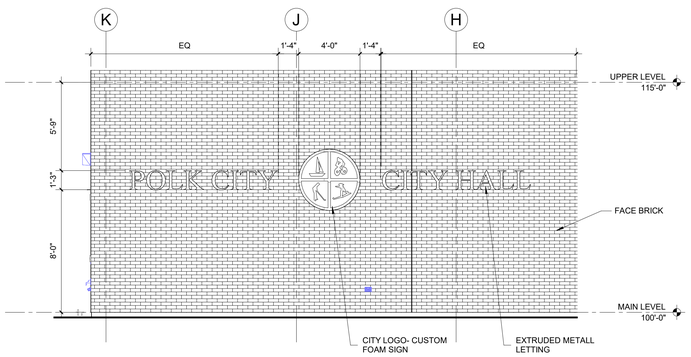
1 CITY SIGN
SCALE: 1/4" = 1'-0"



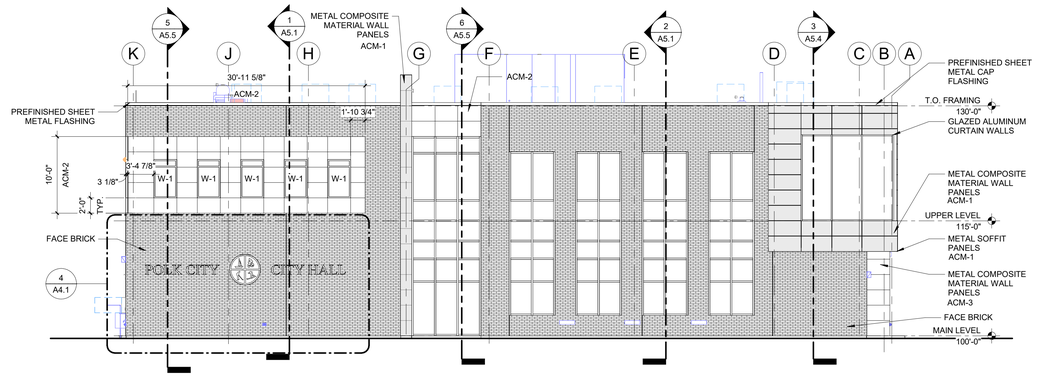
NORTHEAST CHAMBER
2 ENTRY
SCALE: 1/8" = 1'-0"



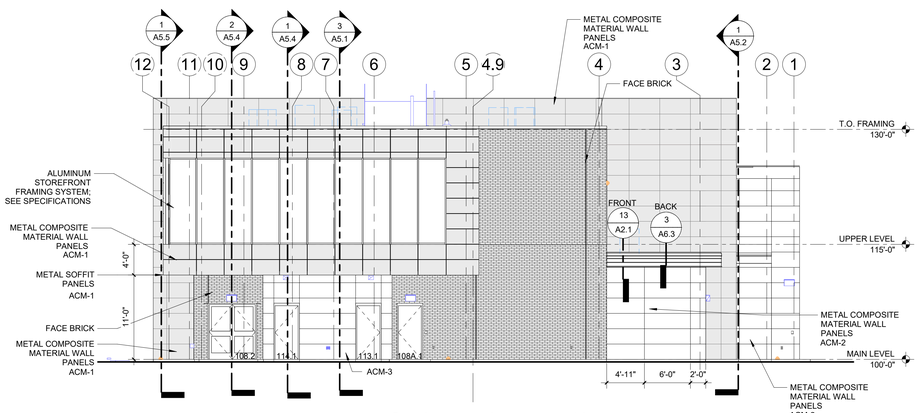
3 NORTHWEST ELEVATION
SCALE: 1/8" = 1'-0"



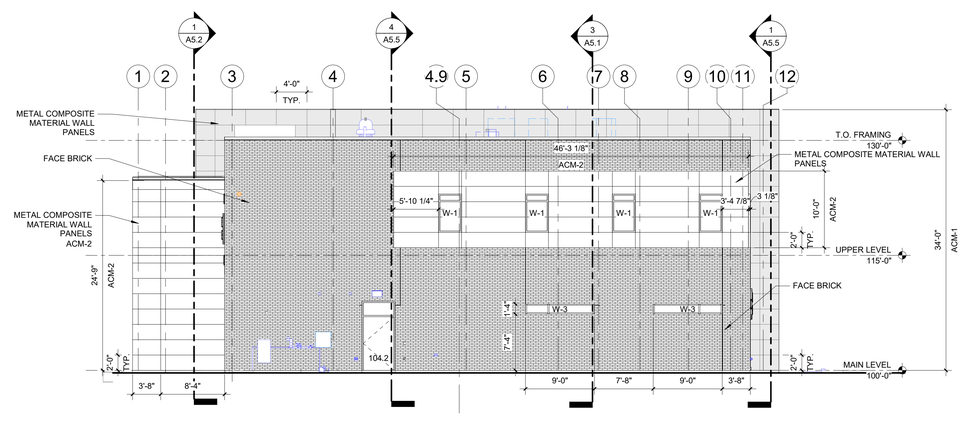
4 SOUTHEAST SIGN ELEVATION
SCALE: 1/4" = 1'-0"



5 SOUTHEAST ELEVATION
SCALE: 1/8" = 1'-0"



6 NORTHEAST ELEVATION
SCALE: 1/8" = 1'-0"



7 SOUTHWEST ELEVATION
SCALE: 1/8" = 1'-0"

FEH DESIGN

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SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO.	DATE

PROJECT NUMBER
2022213.02

SHEET
A4.1

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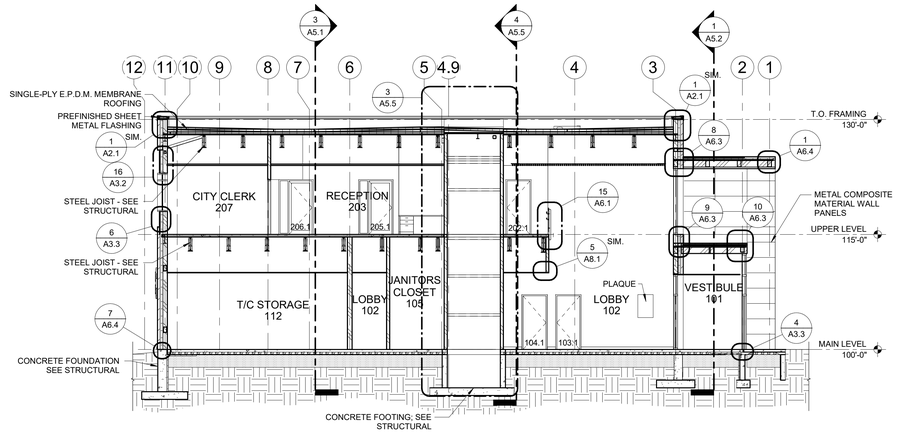
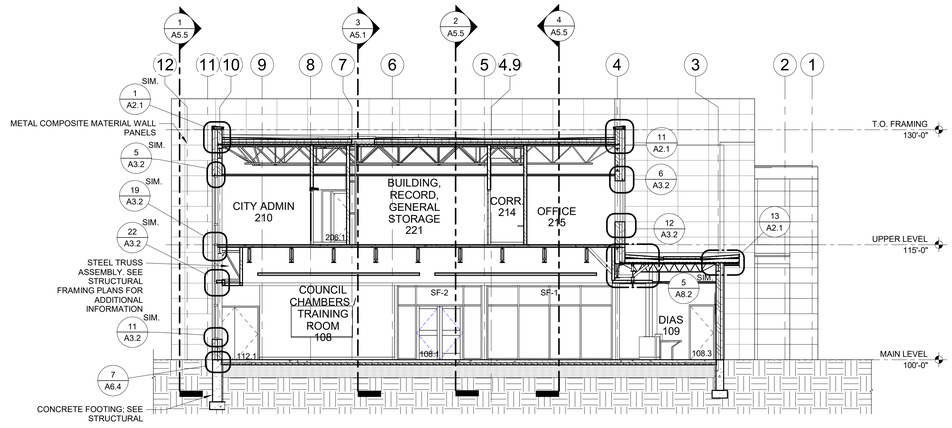
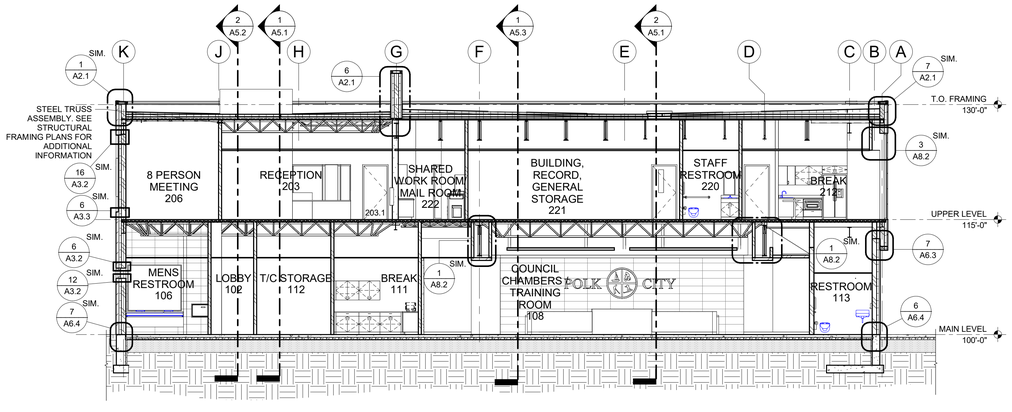


1 NW / SE BUILDING SECTION AT ENTRY
SCALE: 1/8" = 1'-0"



2 NW / SE BUILDING SECTION
SCALE: 1/8" = 1'-0"



3 NE/SW BUILDING SECTION
SCALE: 1/8" = 1'-0"

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BUILDING SECTIONS

PROJECT TITLE
CITY OF POLK CITY, IOWA
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200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO.	DATE

PROJECT NUMBER
2022213.02

SHEET
A5.1

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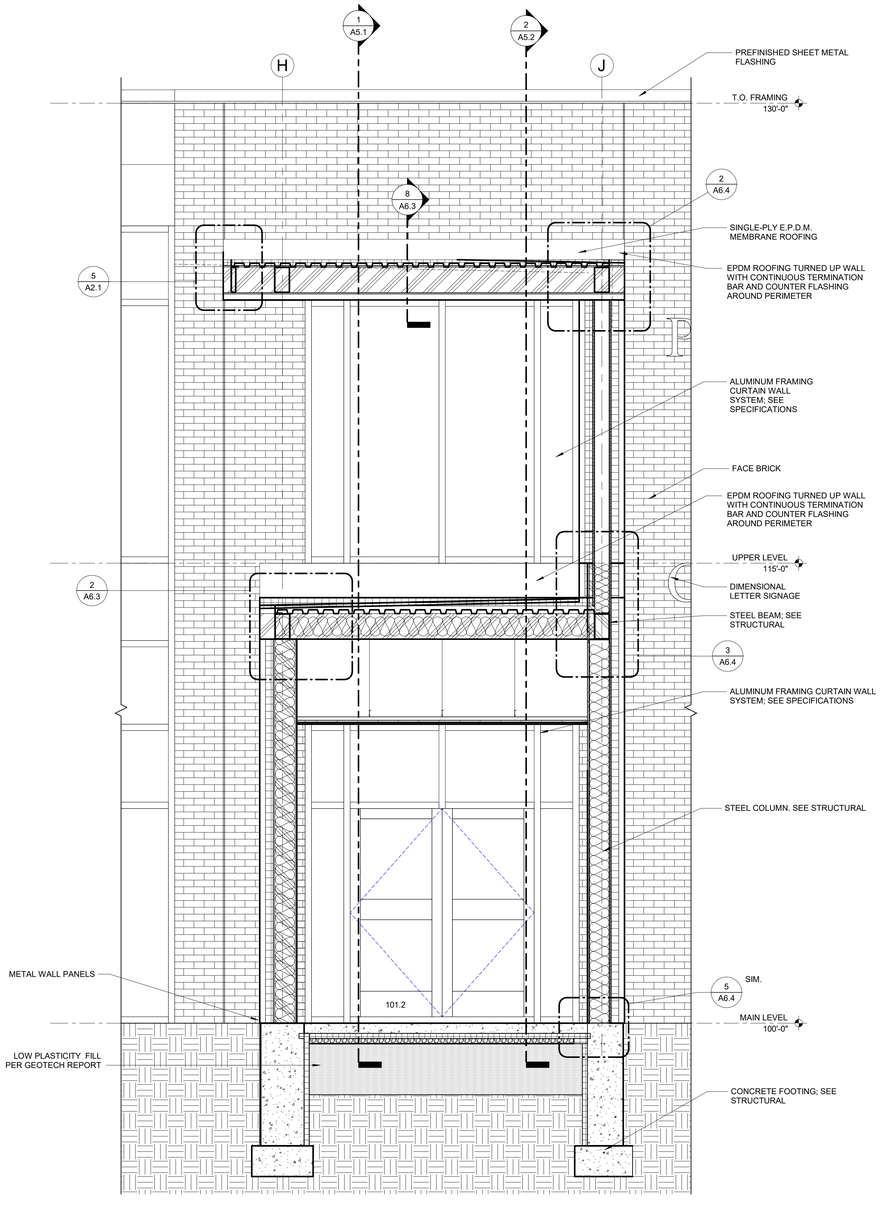
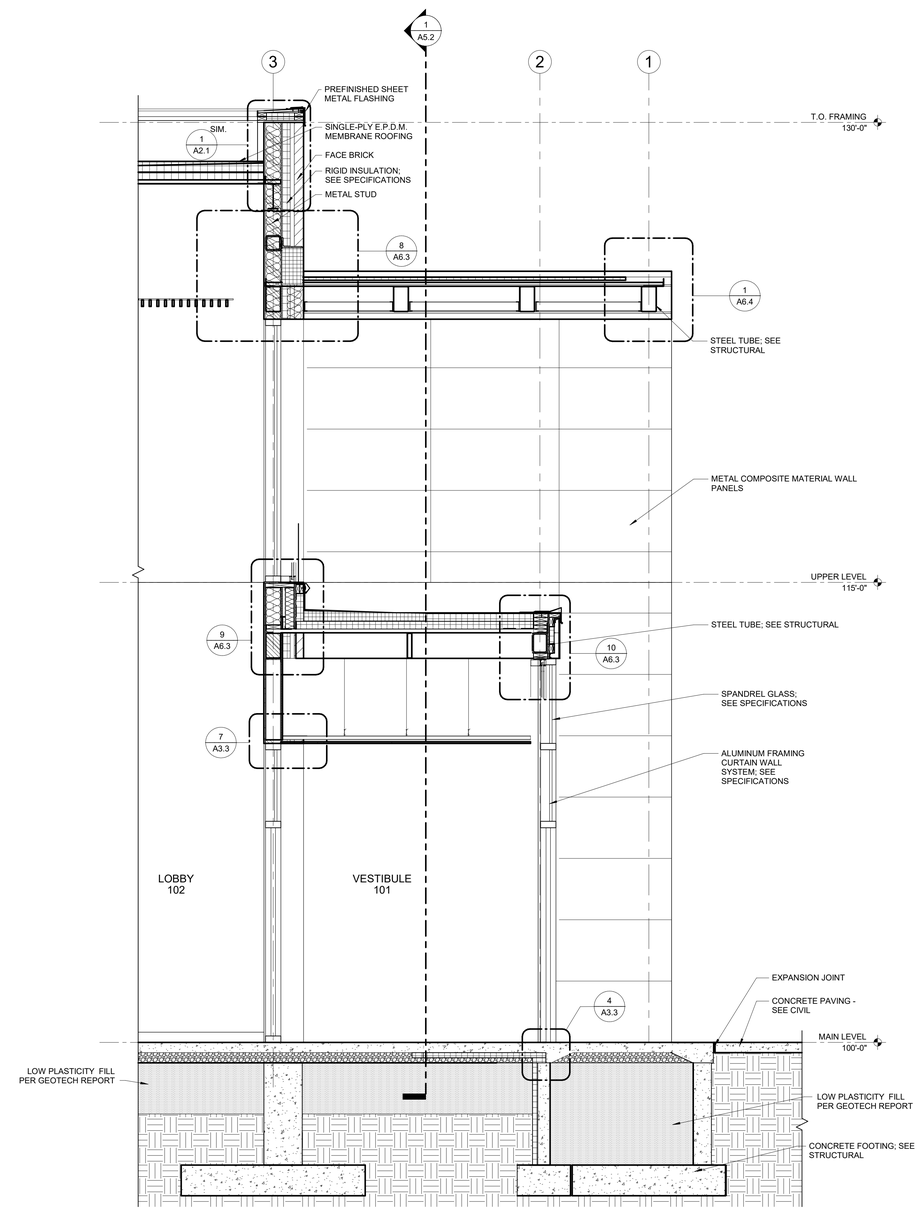


1 ENTRANCE CROSS SECTION
SCALE: 1/2" = 1'-0"



2 ENTRANCE SECTION
SCALE: 1/2" = 1'-0"

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WALL SECTIONS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
A5.2

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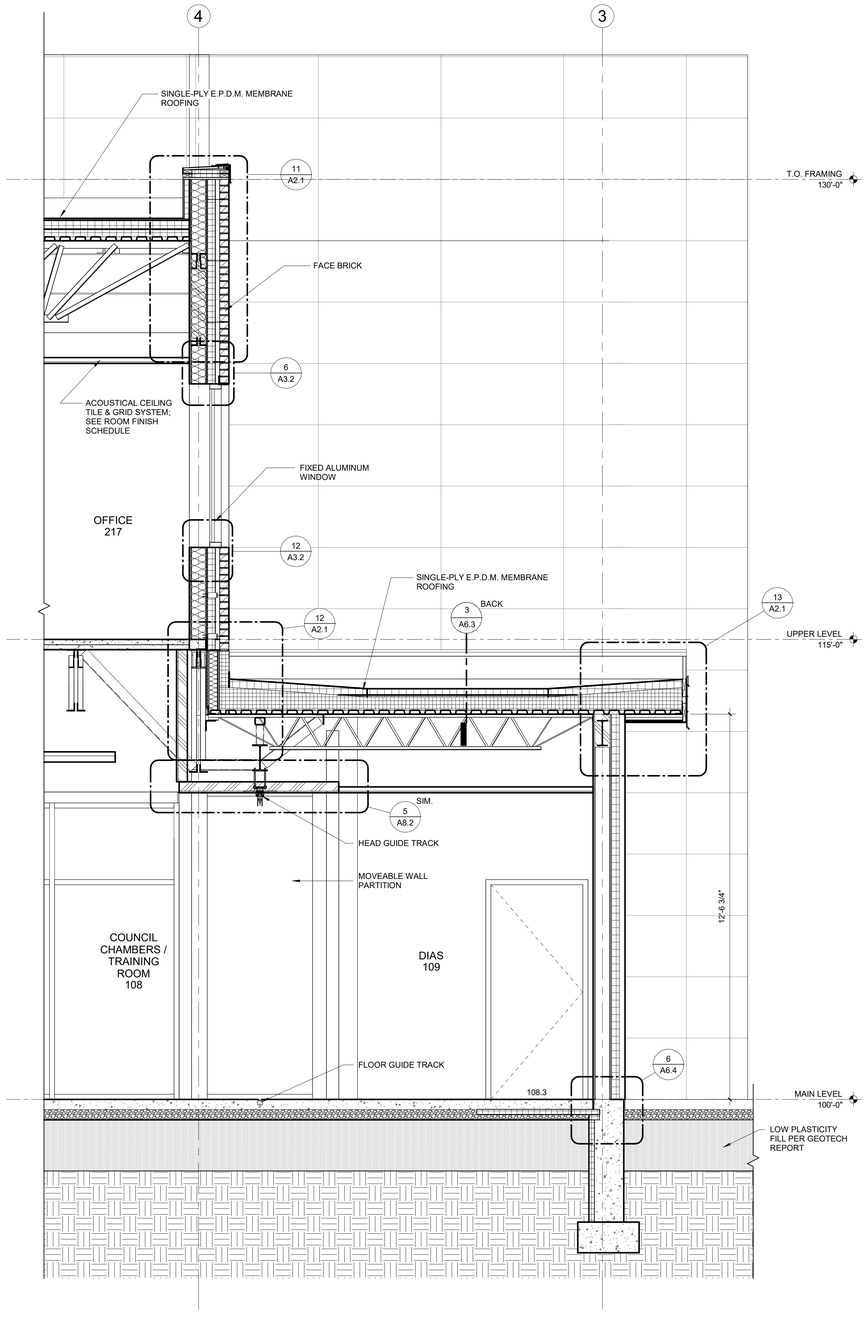

1 DIAS SECTION
SCALE: 1/2" = 1'-0"

PRELIMINARY
NOT FOR CONSTRUCTION

FEH DESIGN

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PROJECT TITLE
CITY OF POLK CITY, IOWA
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200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO.	DATE

PROJECT NUMBER
2022213.02

SHEET
A5.3

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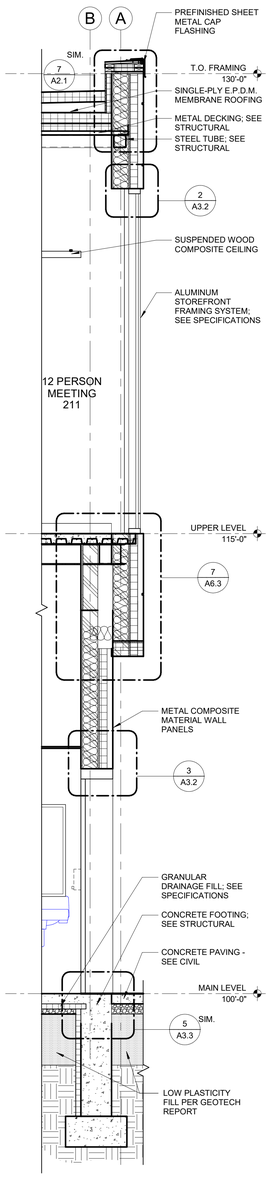
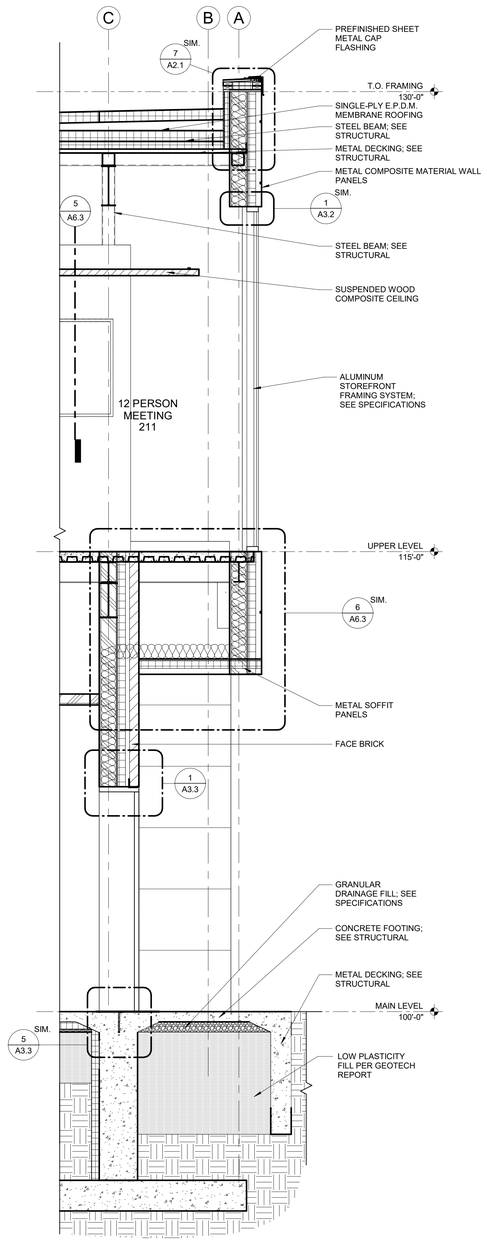
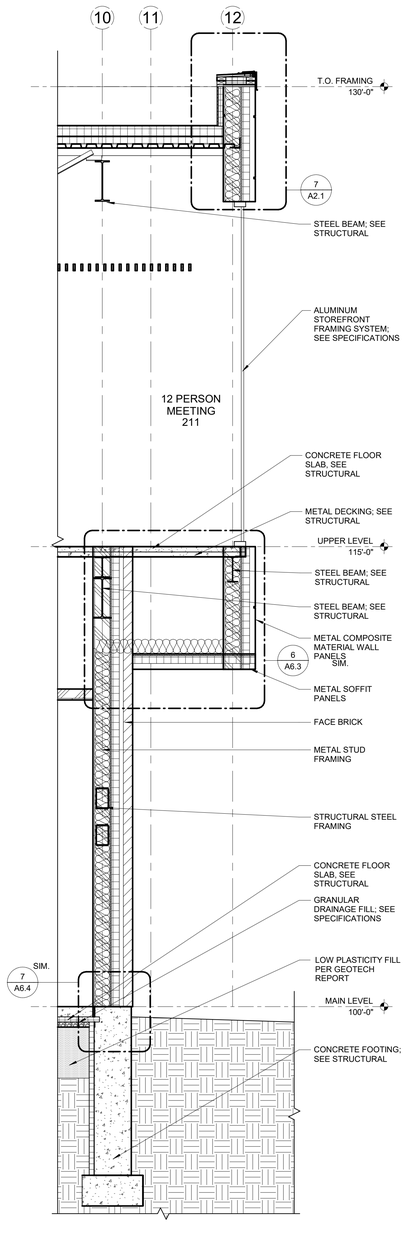


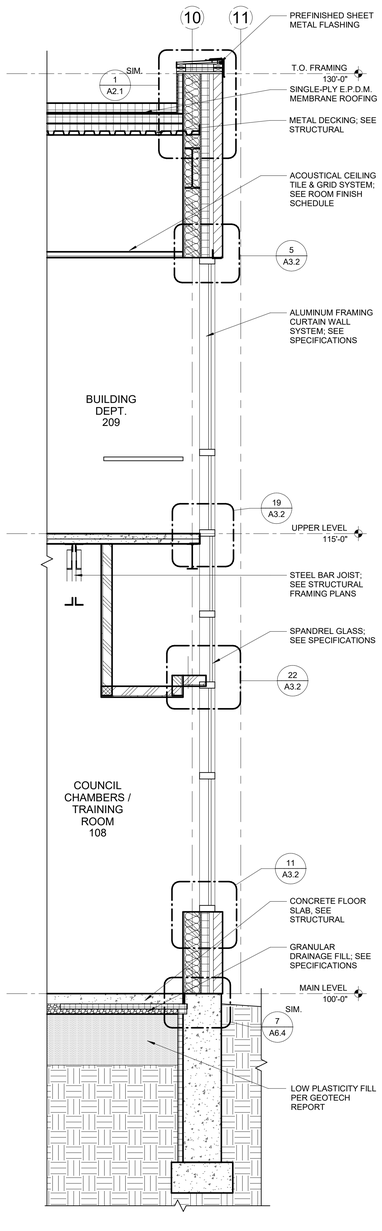
1 NORTH WALL
SCALE: 1/2" = 1'-0"



2 COVERED PATIO - NORTH
SCALE: 1/2" = 1'-0"



3 COVERED PATIO - EAST
SCALE: 1/2" = 1'-0"



4 EAST WALL SECTION
SCALE: 1/2" = 1'-0"

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PROJECT TITLE
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POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

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PROJECT NUMBER
2022213.02

SHEET
A5.4

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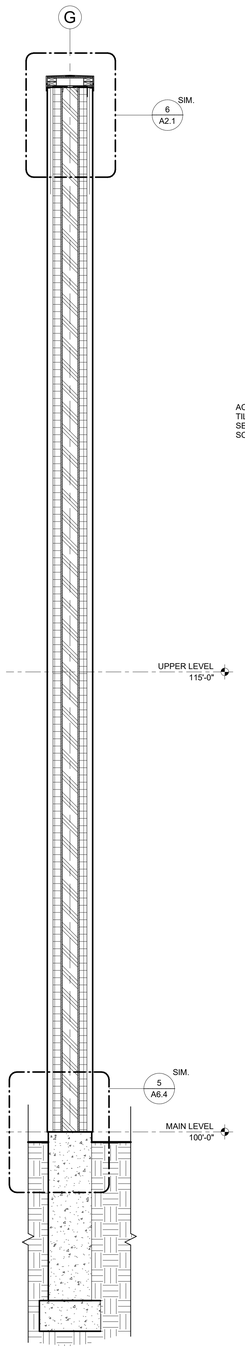
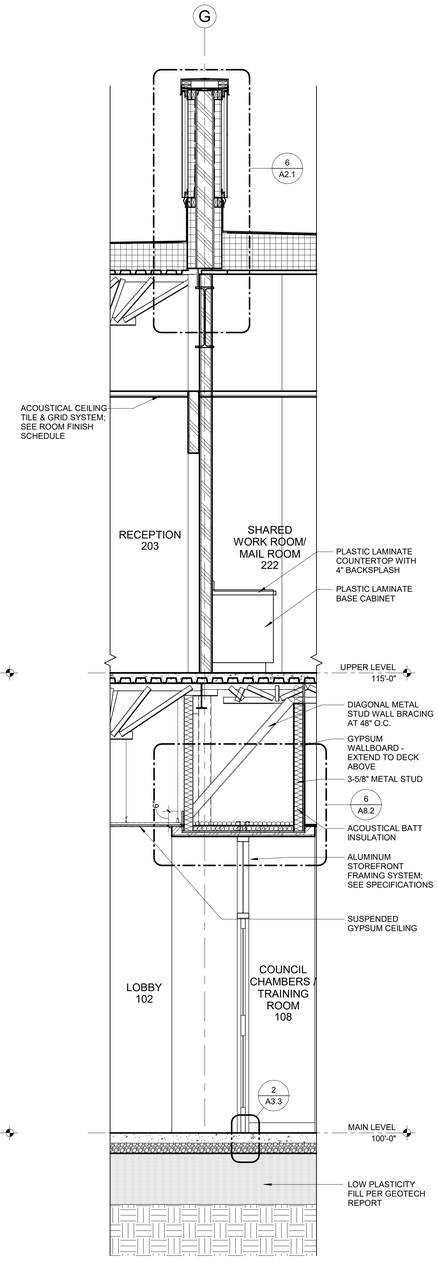


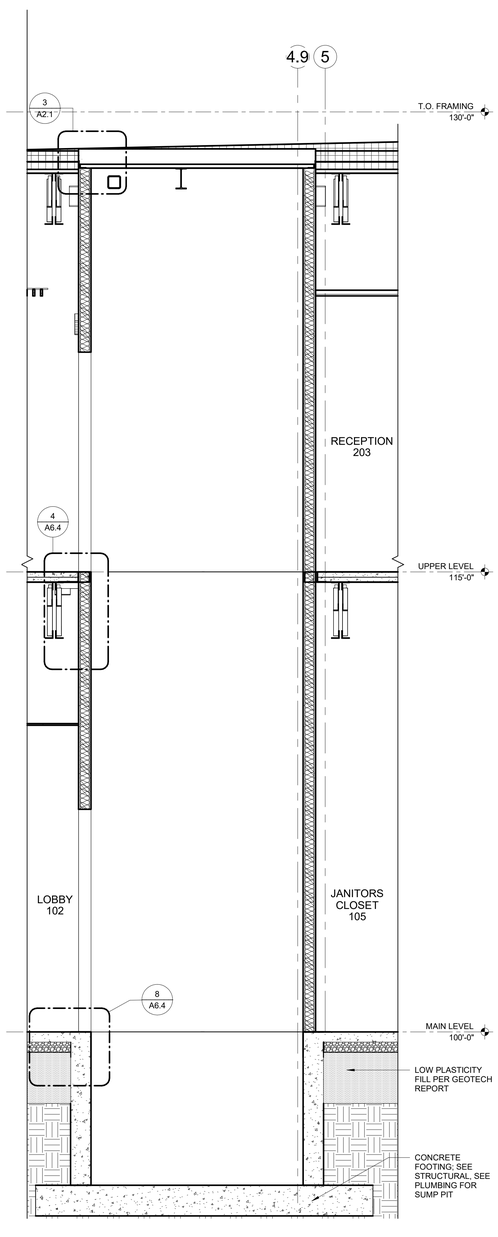
1 CENTRAL WALL SECTION- EAST
SCALE: 1/2" = 1'-0"

NOTE: REFER TO DETAIL 4 ON THIS SHEET FOR TYPICAL MATERIAL NOTES.



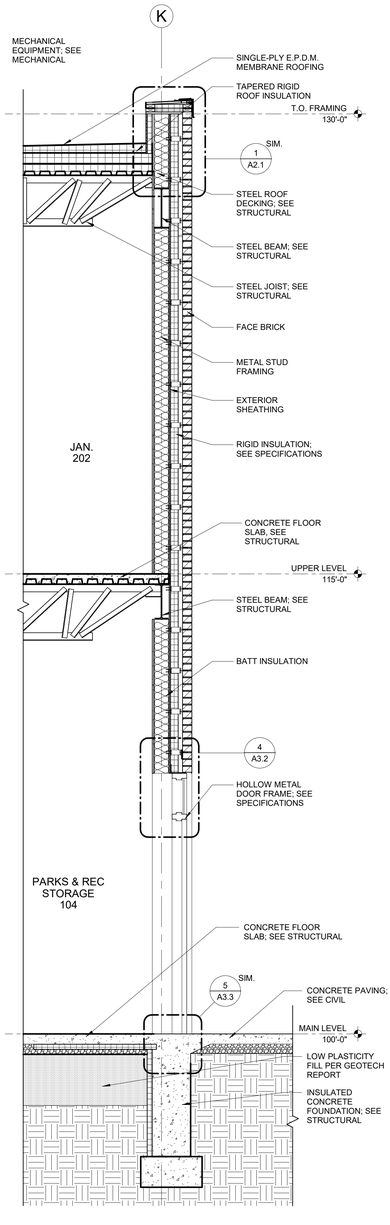
2 CENTRAL WALL SECTION - WEST
SCALE: 1/2" = 1'-0"

NOTE: REFER TO DETAIL 4 ON THIS SHEET FOR TYPICAL MATERIAL NOTES.

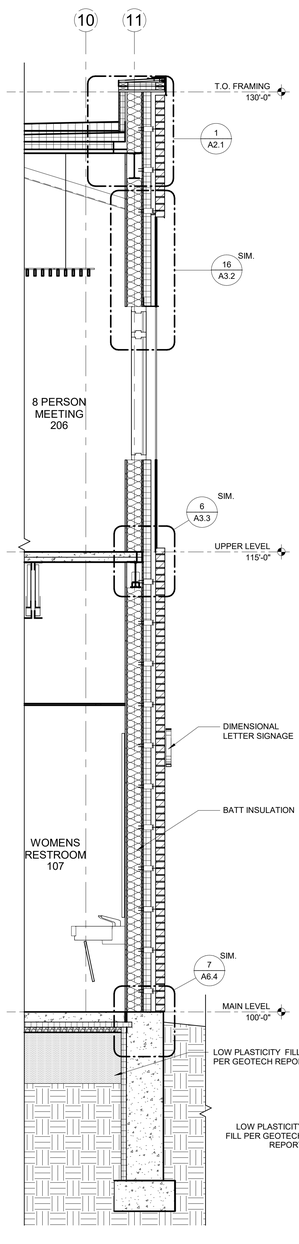


3 ELEVATOR SECTION
SCALE: 1/2" = 1'-0"

NOTE: REFER TO DETAIL 4 ON THIS SHEET FOR TYPICAL MATERIAL NOTES.

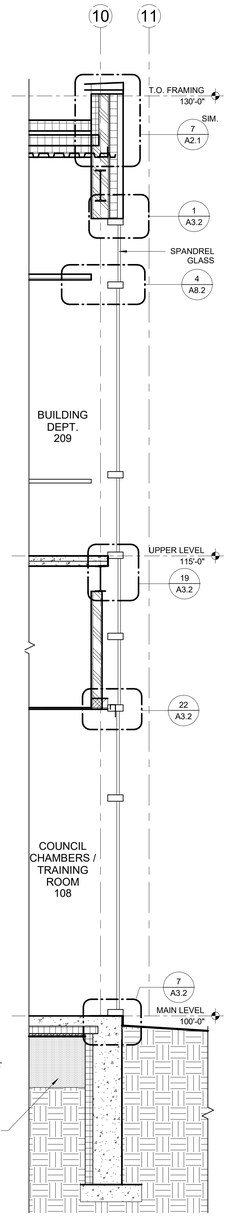


4 WALL SECTION - SOUTH
SCALE: 1/2" = 1'-0"



5 WALL SECTION - EAST
SCALE: 1/2" = 1'-0"

NOTE: REFER TO DETAIL 4 ON THIS SHEET FOR TYPICAL MATERIAL NOTES.



6 AL-7 SECTION
SCALE: 1/2" = 1'-0"

NOTE: REFER TO DETAIL 4 ON THIS SHEET FOR TYPICAL MATERIAL NOTES.

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SHEET TITLE
WALL SECTIONS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
A5.5

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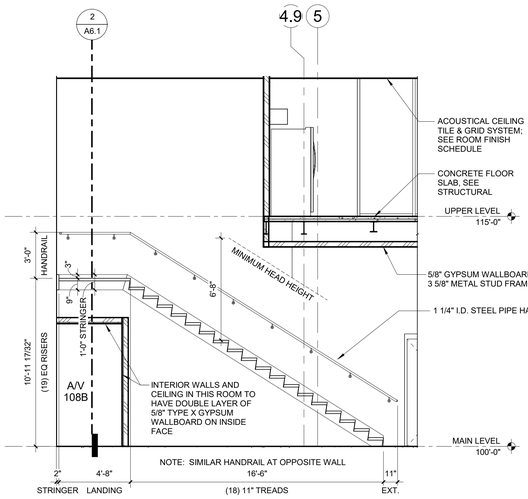
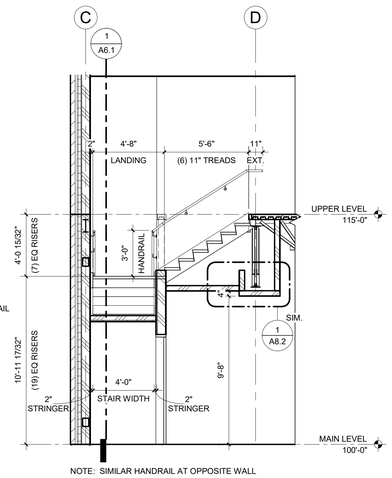
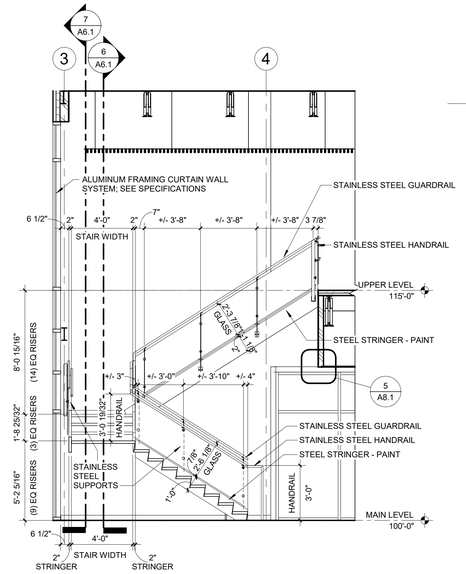


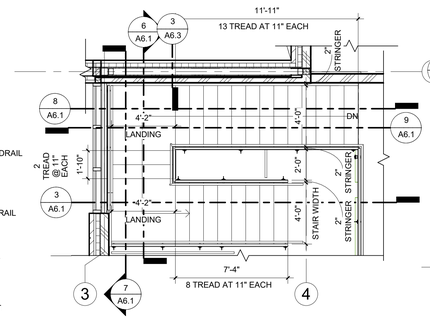
1 NW STAIR - LOW SECTION N
SCALE: 1/4" = 1'-0"



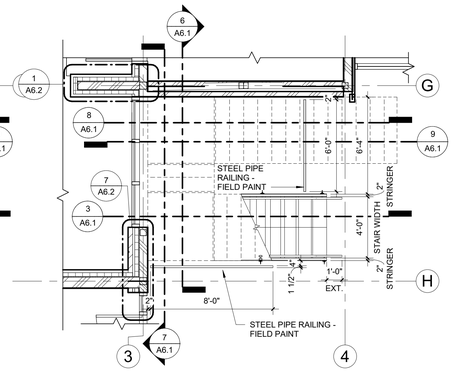
2 NW STAIR - UP SECTION W
SCALE: 1/4" = 1'-0"



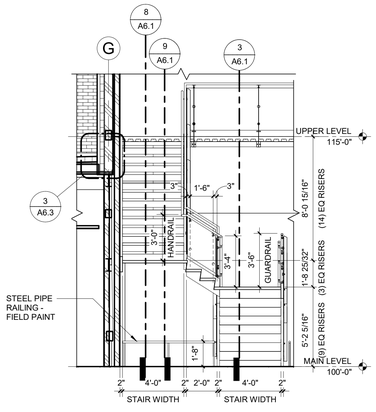
3 SW STAIR - LOW SECTION N
SCALE: 1/4" = 1'-0"



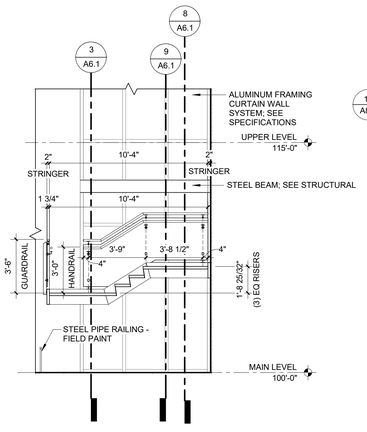
4 SOUTHWEST STAIR
SCALE: 1/4" = 1'-0"



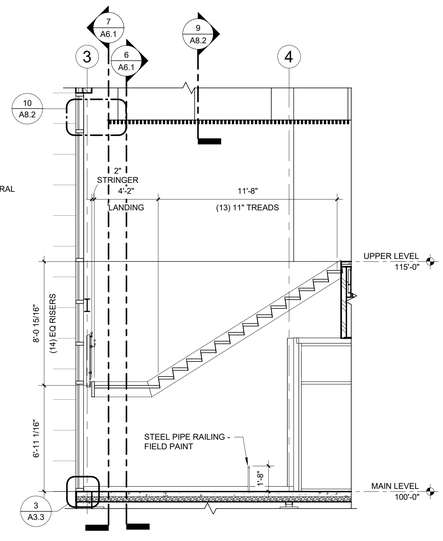
5 SOUTHWEST FIRST FLOOR STAIR
SCALE: 1/4" = 1'-0"



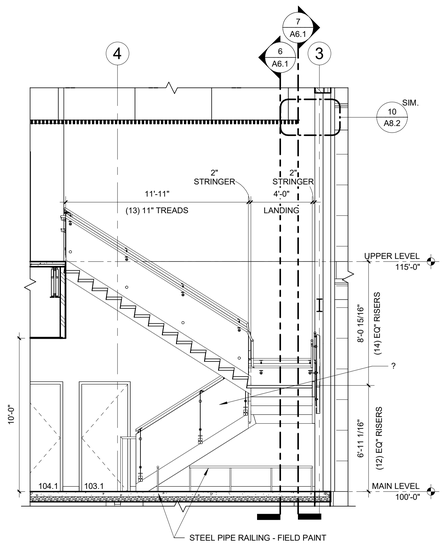
6 SW STAIR - MID SECTION E
SCALE: 1/4" = 1'-0"



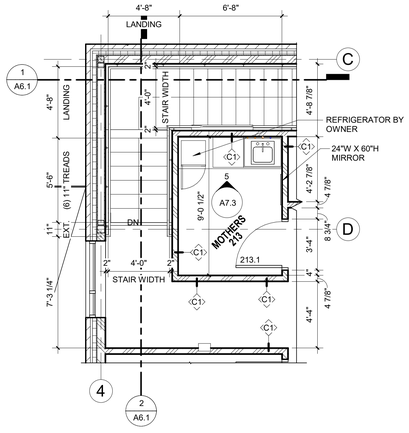
7 SW STAIR - MID SECTION W
SCALE: 1/4" = 1'-0"



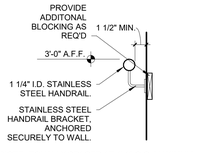
8 SW STAIR - UPPER SECTION N
SCALE: 1/4" = 1'-0"



9 SW STAIR - UPPER SECTION S
SCALE: 1/4" = 1'-0"

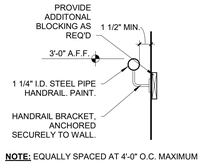


10 NORTHEAST STAIR UPPER
SCALE: 1/4" = 1'-0"



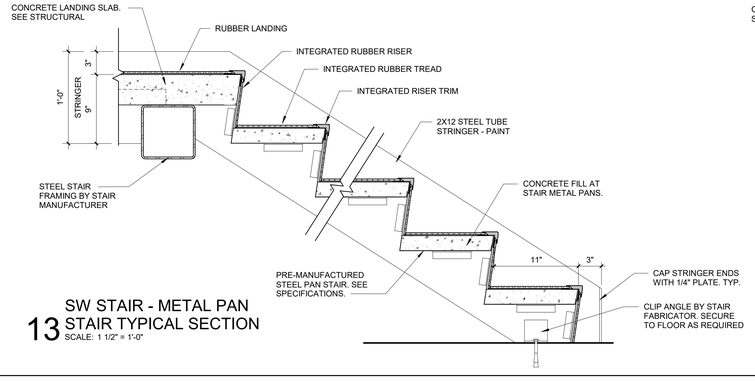
NOTE: EQUALLY SPACED AT 4'-0" O.C. MAXIMUM

11 SW STAIR - HANDRAIL
SCALE: 1 1/2" = 1'-0"

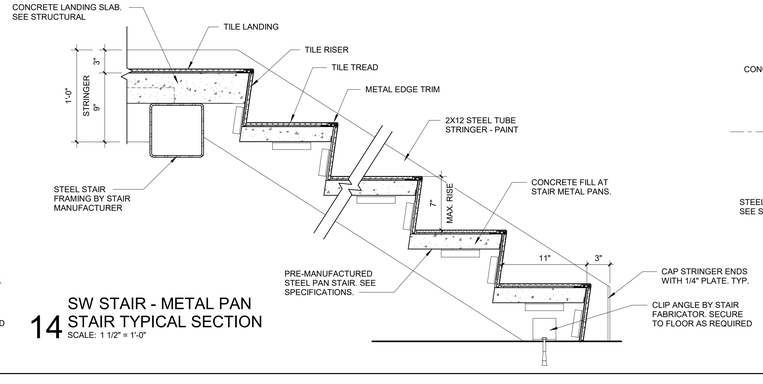


NOTE: EQUALLY SPACED AT 4'-0" O.C. MAXIMUM

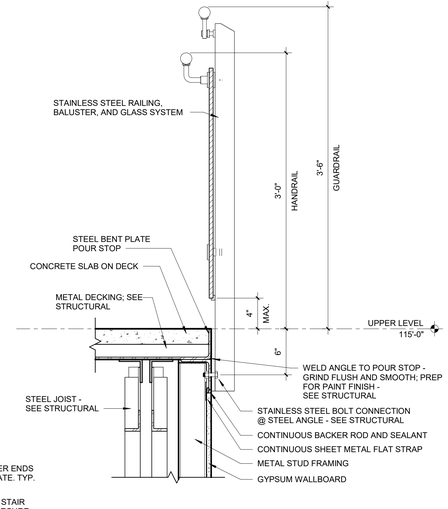
12 NW STAIR - HANDRAIL
SCALE: 1 1/2" = 1'-0"



13 SW STAIR - METAL PAN STAIR TYPICAL SECTION
SCALE: 1 1/2" = 1'-0"



14 SW STAIR - METAL PAN STAIR TYPICAL SECTION
SCALE: 1 1/2" = 1'-0"



15 GUARDRAIL MOUNT
SCALE: 1/2" = 1'-0"

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SHEET TITLE
STAIR DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
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SHEET
A6.1

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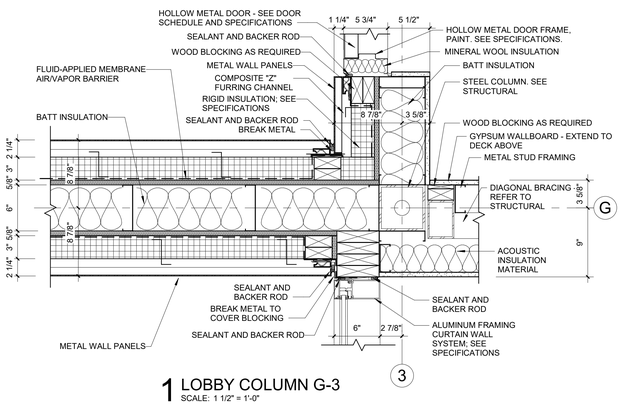
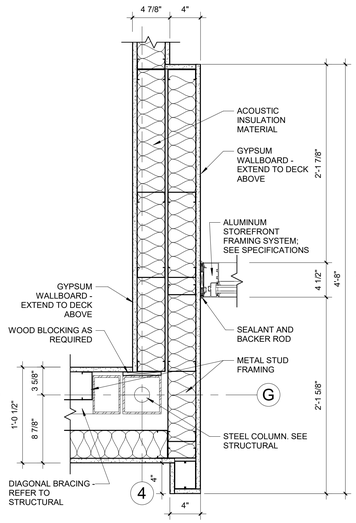
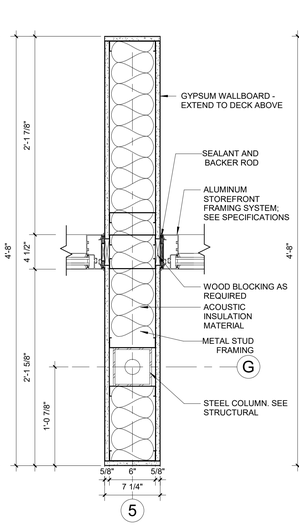


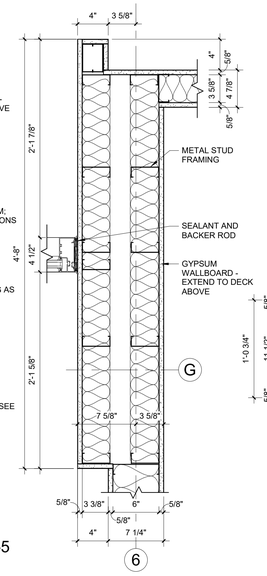
1 LOBBY COLUMN G-3
SCALE: 1 1/2" = 1'-0"



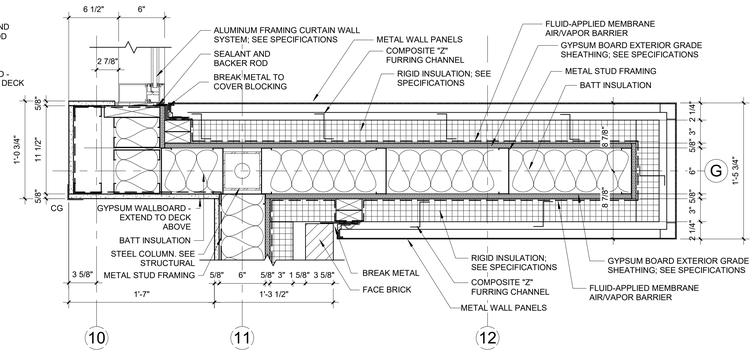
2 WALL BUMP OUT
SCALE: 1 1/2" = 1'-0"



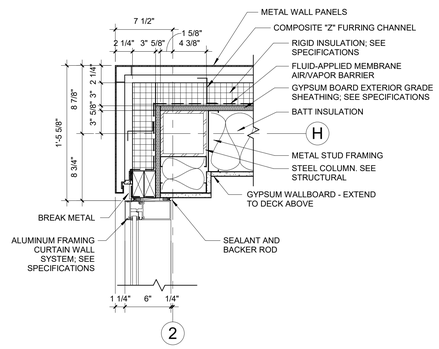
3 MAIN FLOOR COLUMN G-5
SCALE: 1 1/2" = 1'-0"



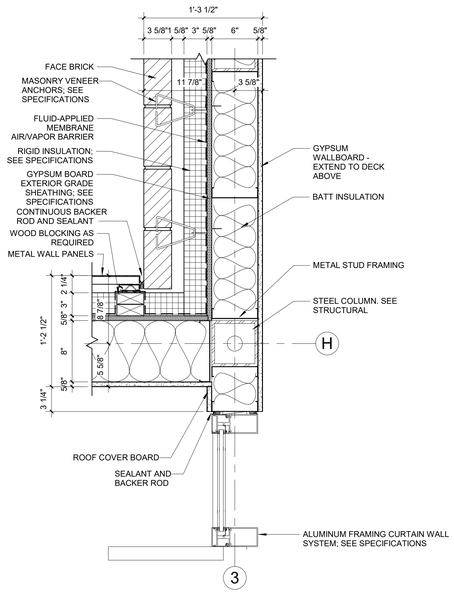
4 WALL BUMP OUT1
SCALE: 1 1/2" = 1'-0"



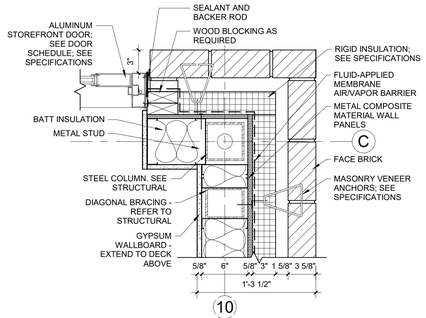
5 MAIN FLOOR COLUMN G-11
SCALE: 1 1/2" = 1'-0"



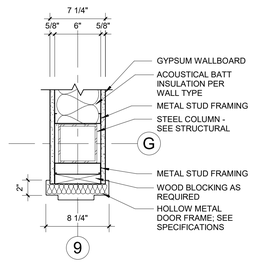
6 ENTRY COLUMN H-2
SCALE: 1 1/2" = 1'-0"



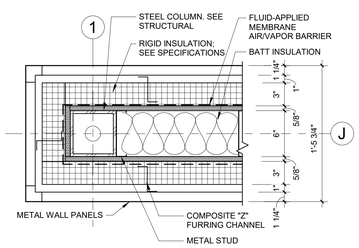
7 ENTRY COLUMN H-3
SCALE: 1 1/2" = 1'-0"



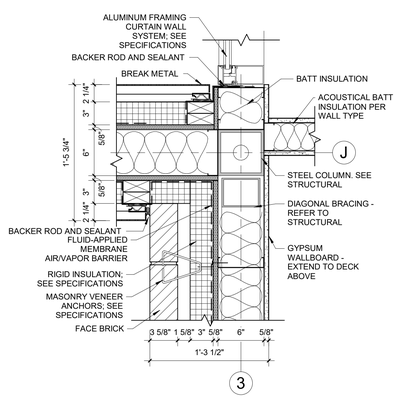
8 MAIN FLOOR COLUMN C-10
SCALE: 1 1/2" = 1'-0"



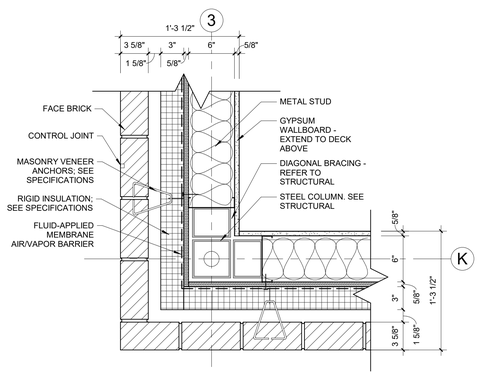
9 MAIN FLOOR COLUMN G-9
SCALE: 1 1/2" = 1'-0"



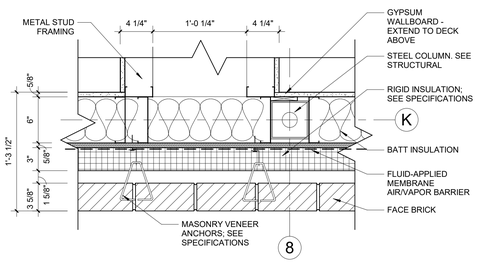
10 ENTRY COLUMN I-1
SCALE: 1 1/2" = 1'-0"



11 UPPER FLOOR - COLUMN J-3
SCALE: 1 1/2" = 1'-0"



12 MAIN FLOOR COLUMN J-3
SCALE: 1 1/2" = 1'-0"



13 MAIN FLOOR COLUM J-8
SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
A6.2

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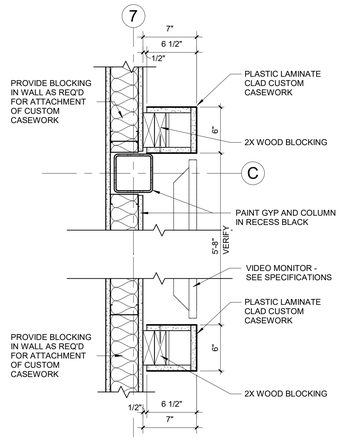
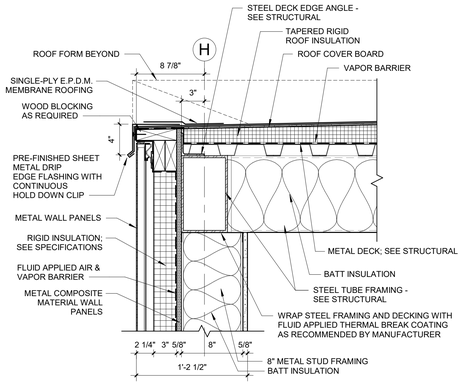
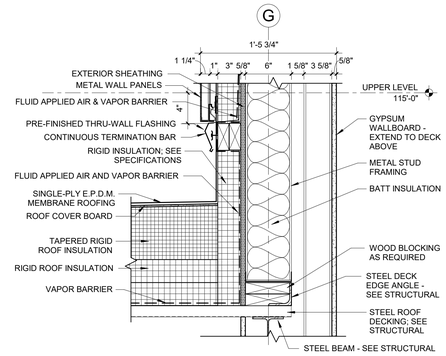


1 12 PERSON MEETING AND BREAK TV LAYOUT
SCALE: 1 1/2" = 1'-0"



2 ENTRANCE WALL TO ROOF CONNECTION
SCALE: 1 1/2" = 1'-0"



3 ROOF TO METAL PANEL
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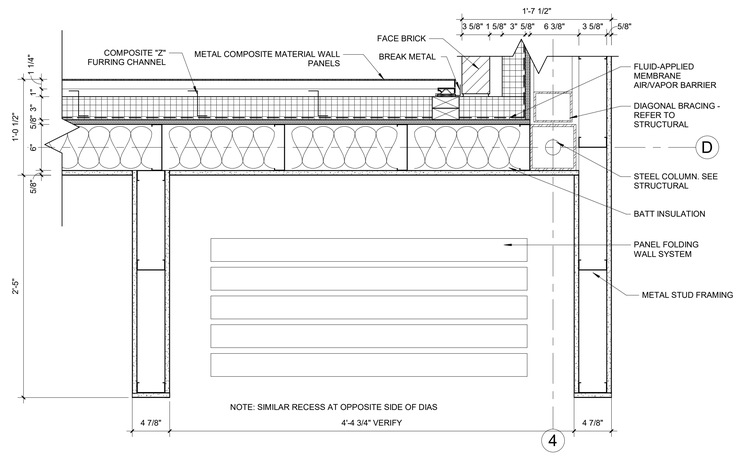
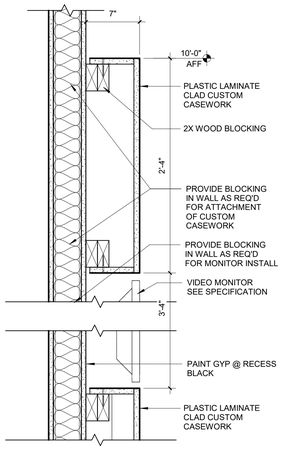
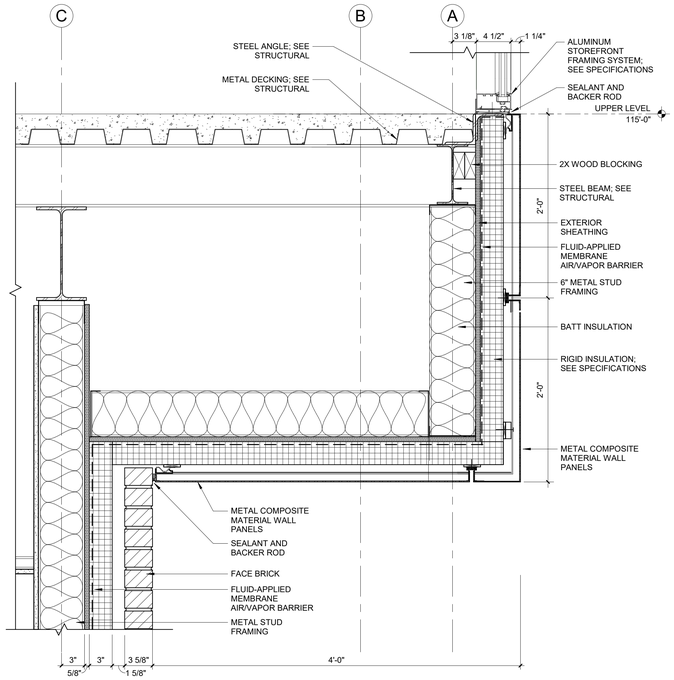


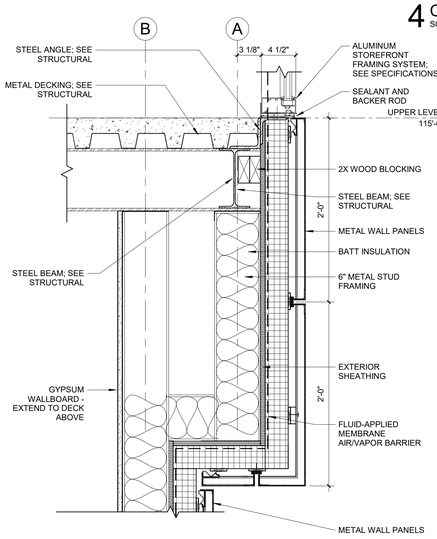
4 CHAMBER MOVABLE PARTITION
SCALE: 1 1/2" = 1'-0"



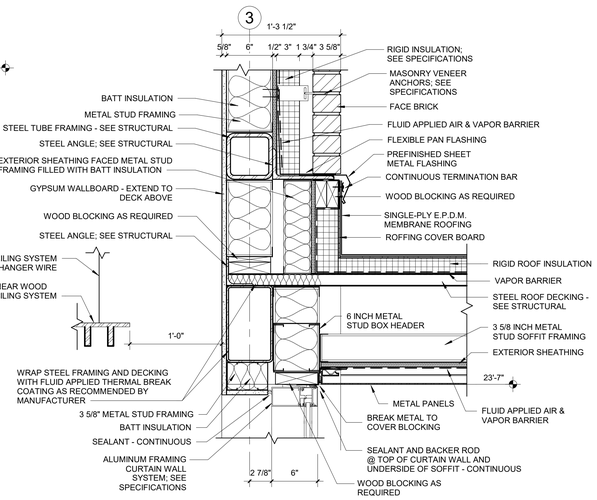
5 12 PERSON MEETING ROOM TV SECTION
SCALE: 1 1/2" = 1'-0"



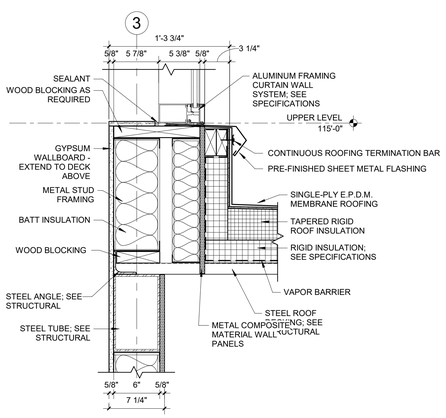
6 COVERED PATIO - NORTH BASE
SCALE: 1 1/2" = 1'-0"



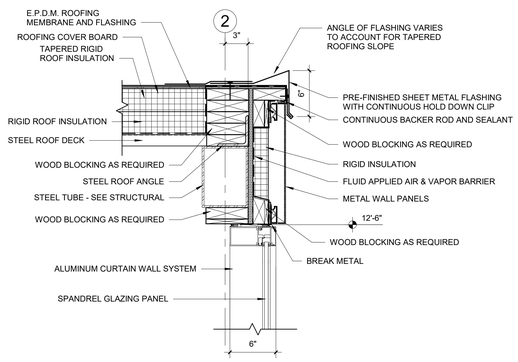
7 WALL RESTROOM SOFFIT
SCALE: 1 1/2" = 1'-0"



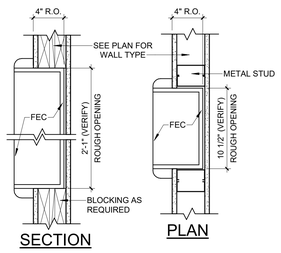
8 ENTRANCE ROOF
SCALE: 1 1/2" = 1'-0"



9 VESTIBULE INTERIOR WALL TO ROOF
SCALE: 1 1/2" = 1'-0"



10 VESTIBULE EXTERIOR WALL TO ROOF
SCALE: 1 1/2" = 1'-0"



11 SEMI-RECESSED FEC- GYP WALL
SCALE: 1 1/2" = 1'-0"

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CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

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REV. NO. DATE

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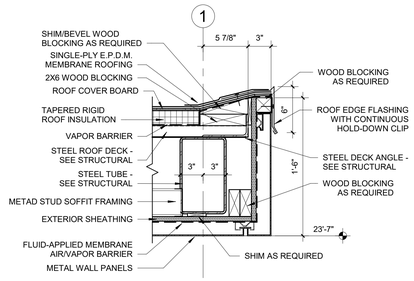
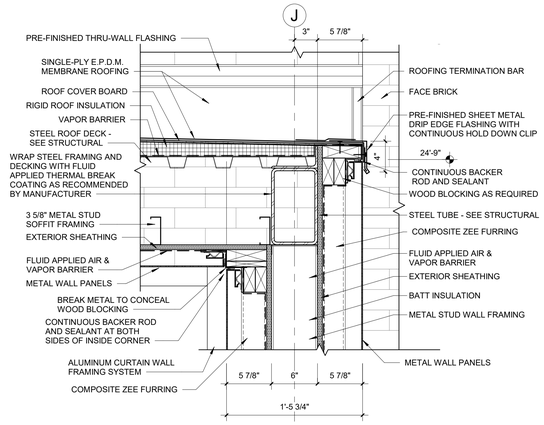
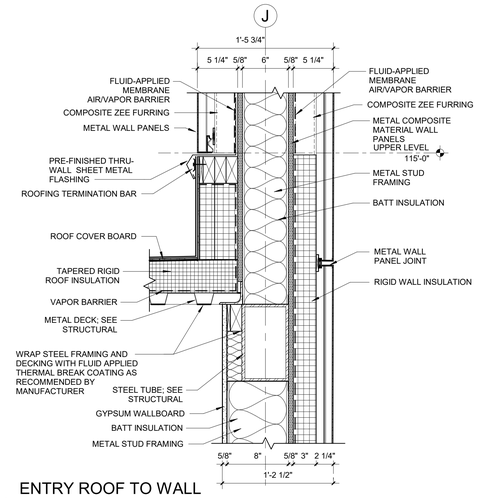


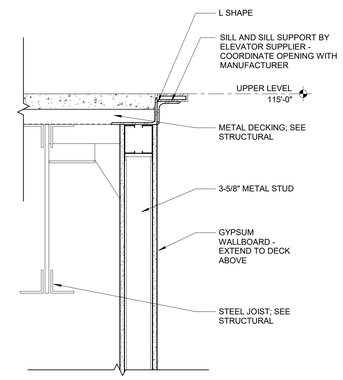
1 ENTRANCE - HIGH ROOF EDGE 2
SCALE: 1 1/2" = 1'-0"



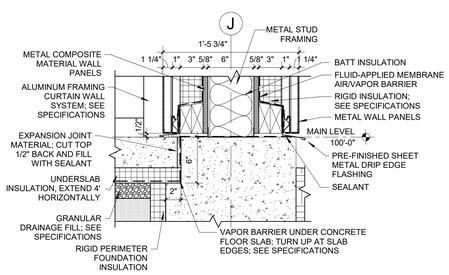
2 ENTRANCE - HIGH ROOF EDGE 3
SCALE: 1 1/2" = 1'-0"



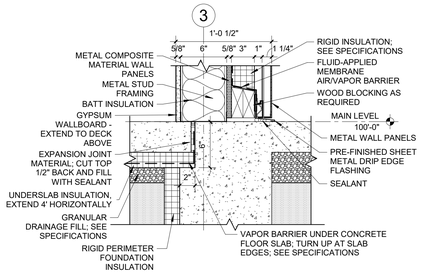
3 ENTRY ROOF TO WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



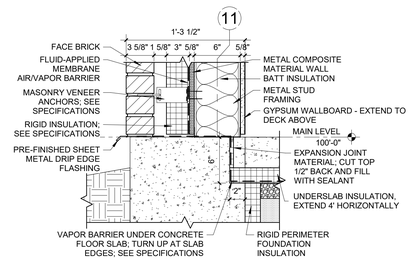
4 ELEVATOR SILL
SCALE: 1 1/2" = 1'-0"



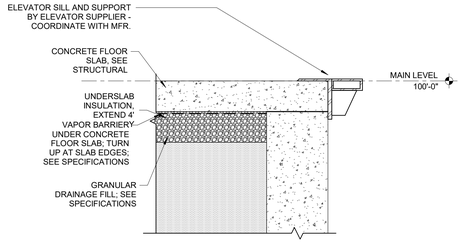
5 FOUNDATION CONNECTION
SCALE: 1 1/2" = 1'-0"



6 METAL PANEL TO FOUNDATION
SCALE: 1 1/2" = 1'-0"



7 BRICK WALL TO FOUNDATION
SCALE: 1 1/2" = 1'-0"



8 LOBBY TO ELEVATOR CONNECTION
SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

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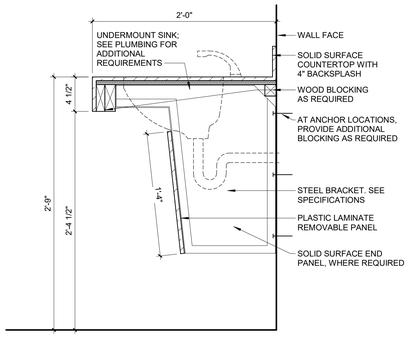
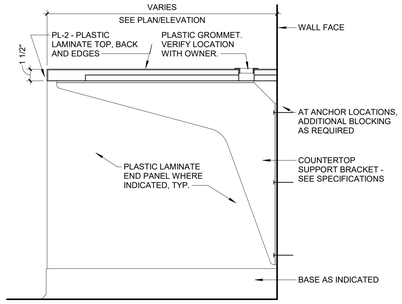
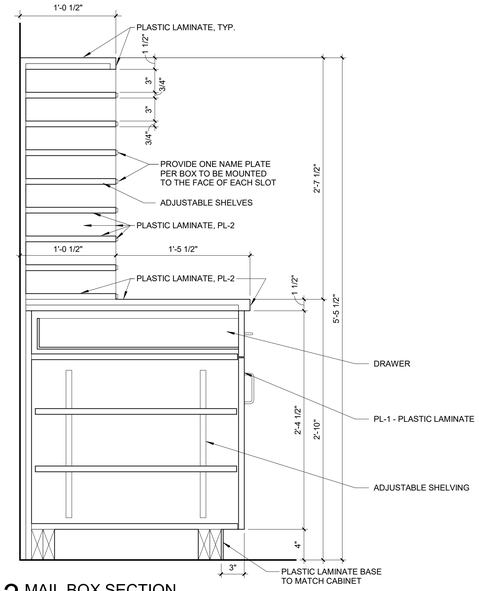


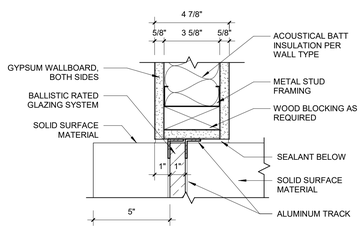
1 LAVATORY COUNTER
SCALE: 1 1/2" = 1'-0"



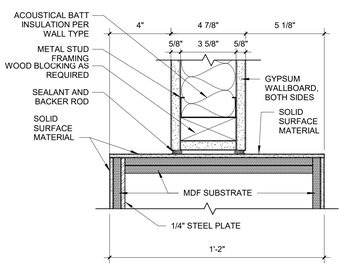
2 BUILT-IN DESK COUNTER
SCALE: 1 1/2" = 1'-0"



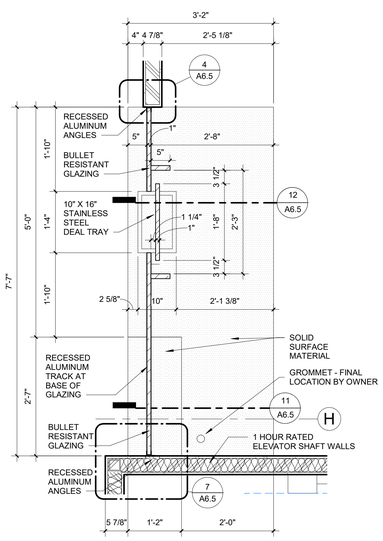
3 MAIL BOX SECTION
SCALE: 1 1/2" = 1'-0"



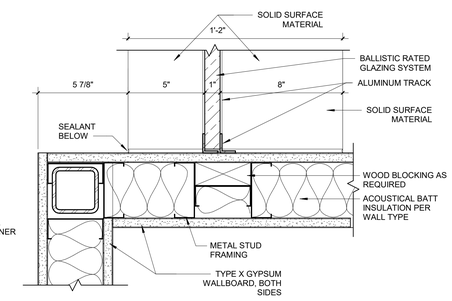
4 CITY SERVICES DESK - JAMB 1
SCALE: 3" = 1'-0"



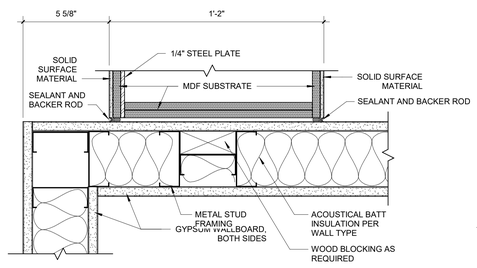
5 CITY SERVICES DESK - JAMB 3
SCALE: 3" = 1'-0"



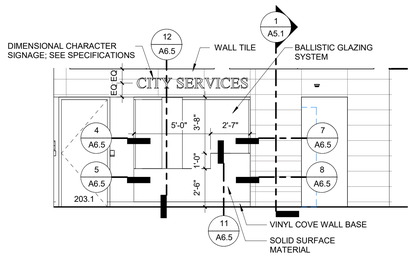
6 CITY SERVICES DESK - PLAN
SCALE: 3/4" = 1'-0"



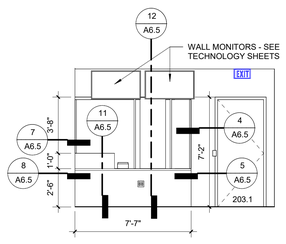
7 CITY SERVICES DESK - JAMB 2
SCALE: 3" = 1'-0"



8 CITY SERVICES DESK - JAMB 4
SCALE: 3" = 1'-0"



9 RECEPTION 208 - FRONT
SCALE: 1/4" = 1'-0"



10 RECEPTION 208
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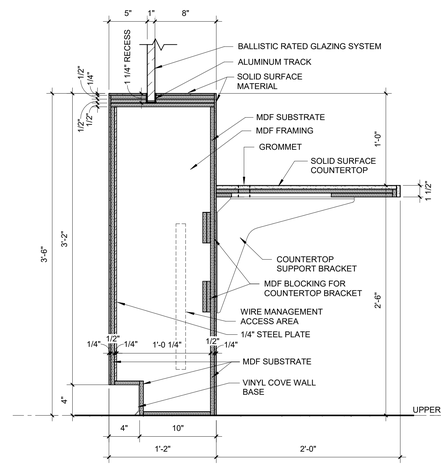
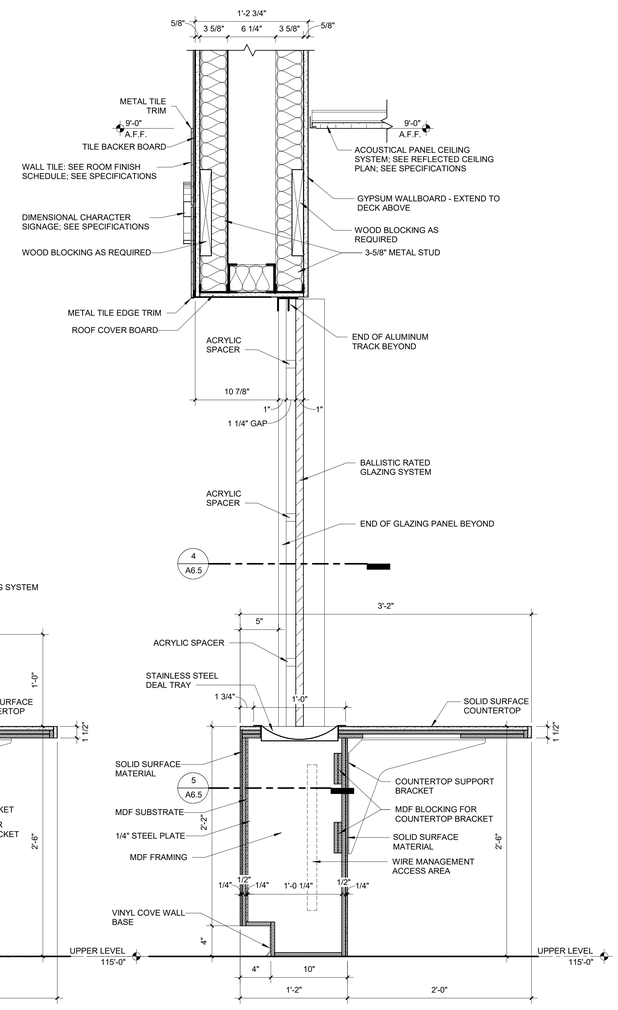


11 CITY SERVICES DESK - SECTION 2
SCALE: 1 1/2" = 1'-0"



12 CITY SERVICES DESK - SECTION 1
SCALE: 1 1/2" = 1'-0"

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PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO.	DATE

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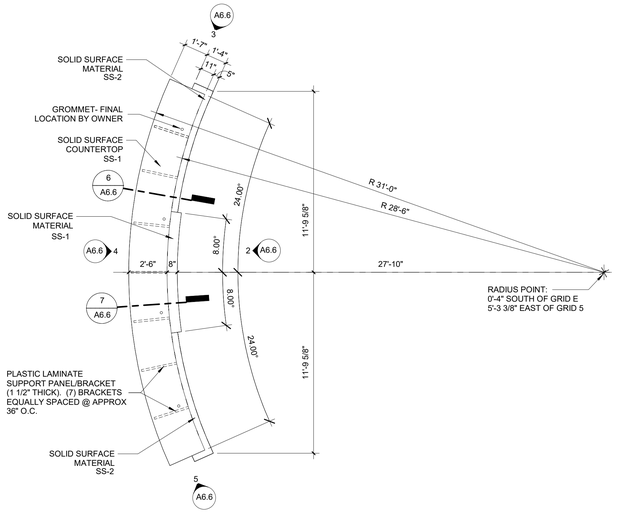
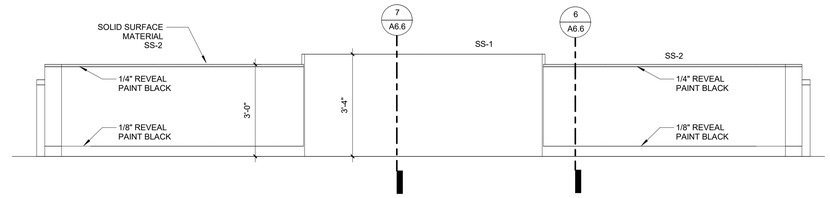
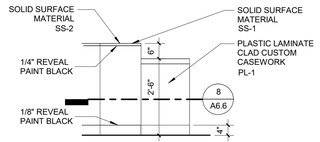


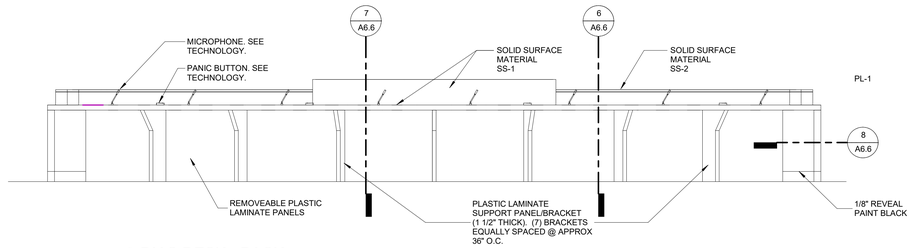
1 DIAS DESK PLAN
SCALE: 1/4" = 1'-0"



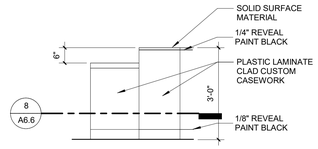
2 DIAS DESK - FRONT
SCALE: 1/2" = 1'-0"



3 DIAS DESK - NORTH END
SCALE: 1/2" = 1'-0"



4 DIAS DESK - BACK
SCALE: 1/2" = 1'-0"



5 DIAS DESK - SOUTH END
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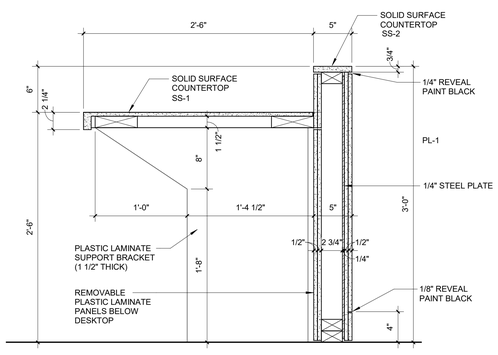
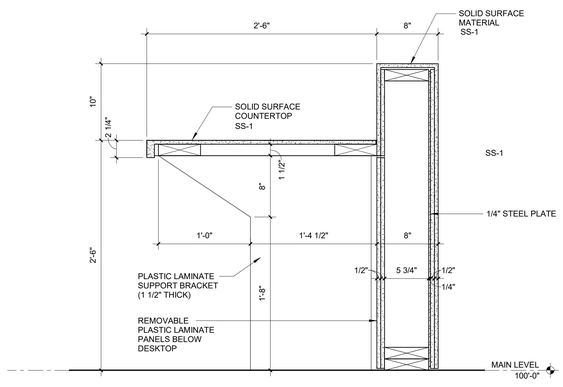
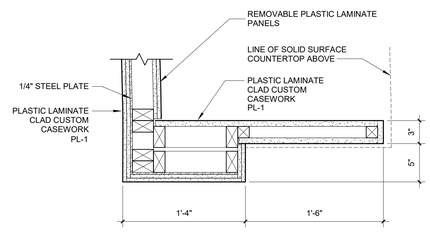


6 DIAS DESK - SECTION 1
SCALE: 1 1/2" = 1'-0"



7 DIAS DESK - SECTION 2
SCALE: 1 1/2" = 1'-0"



8 DIAS DESK - END SECTION
SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
CASEWORK DETAILS - DIAS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO.	DATE

PROJECT NUMBER
2022213.02

SHEET
A6.6

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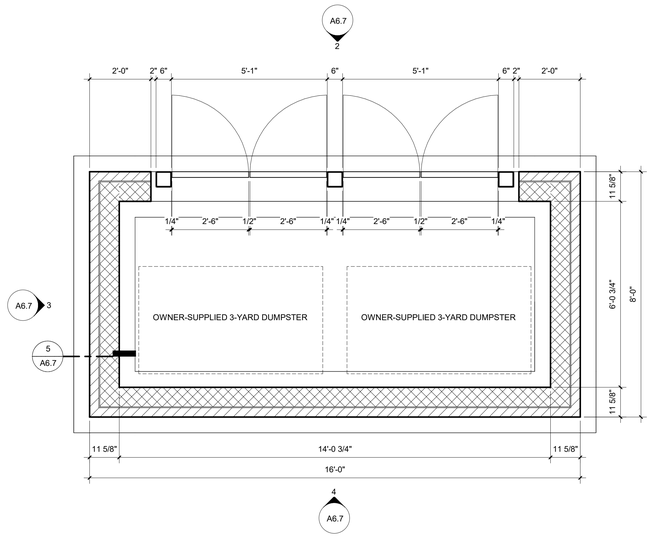
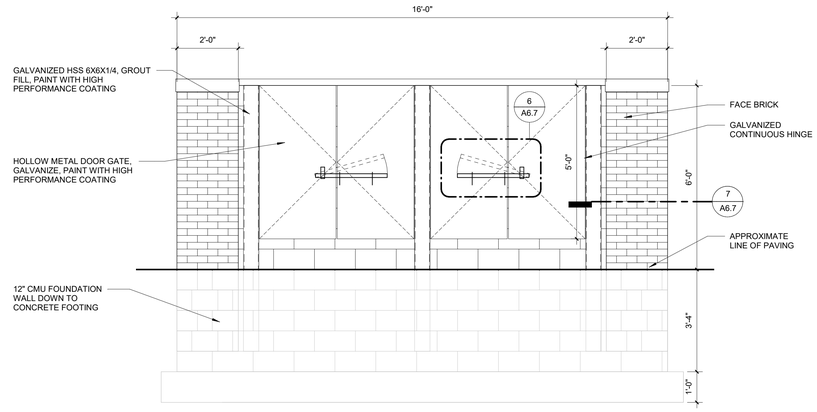


N

1 TRASH ENCLOSURE PLAN
SCALE: 1/2" = 1'-0"



2 DUMPSTER ENCLOSURE - FRONT
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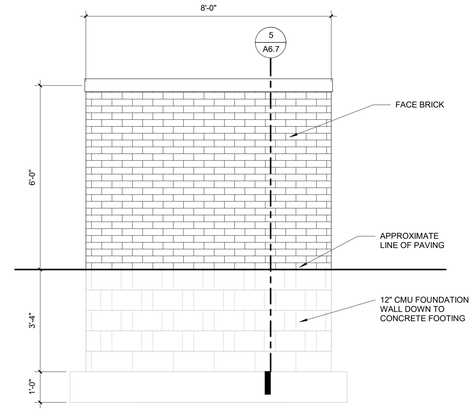

3 DUMPSTER ENCLOSURE - SIDE
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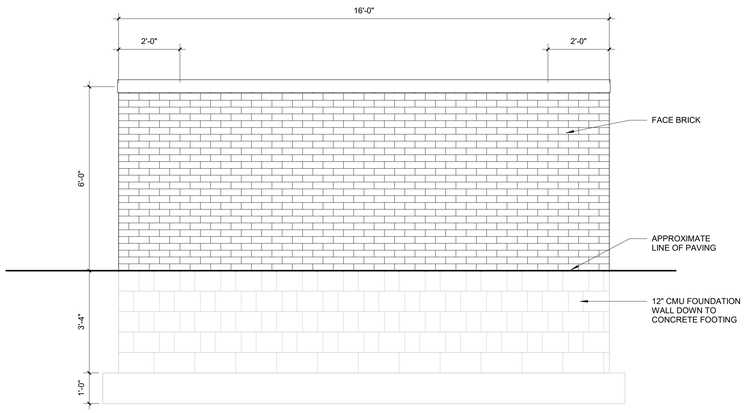

4 DUMPSTER ENCLOSURE - REAR
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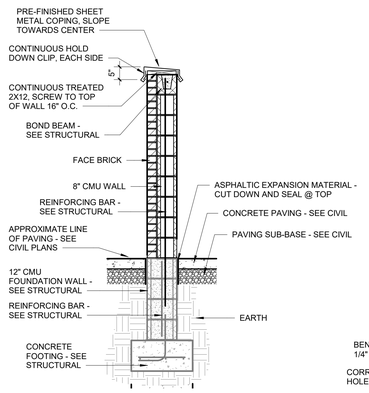

5 TRASH ENCLOSURE - WALL SECTION
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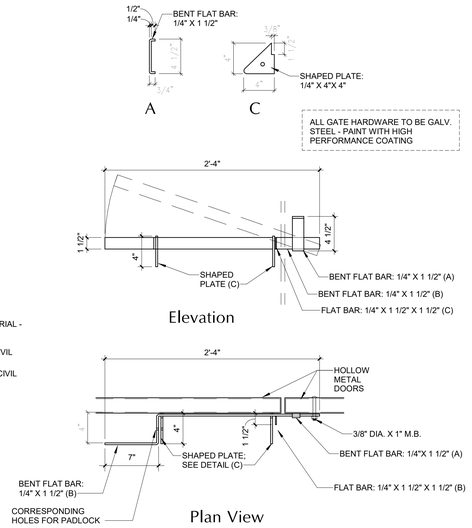
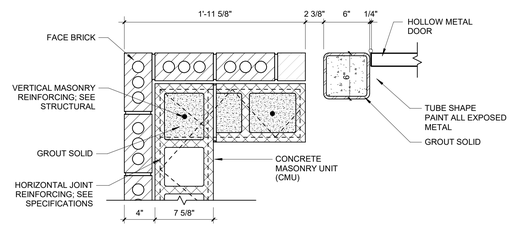


6 TRASH ENCLOSURE LATCH DETAILS
SCALE: 1 1/2" = 1'-0"



7 TRASH DOOR JAMB
SCALE: 1 1/2" = 1'-0"

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200 S 4TH STREET
POLK CITY, IOWA 50226

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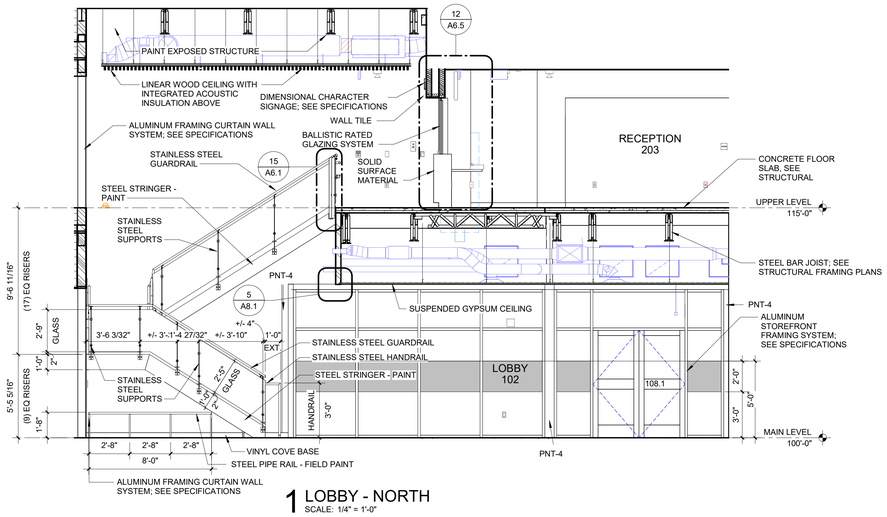

1 LOBBY - NORTH
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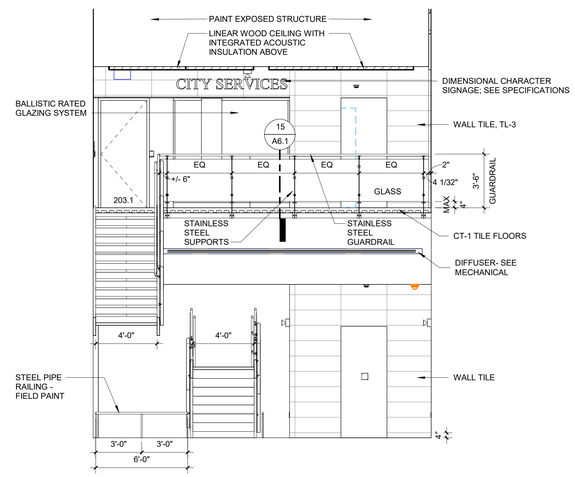

2 LOBBY - EAST
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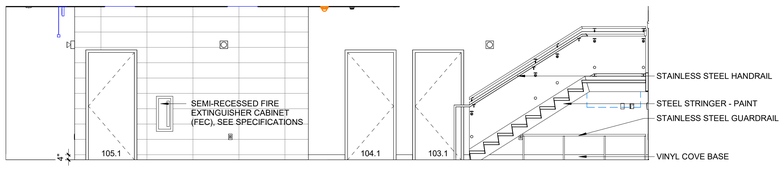

3 LOBBY 102 - SOUTH
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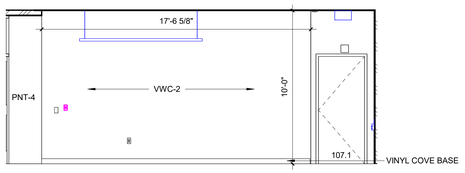

4 LOBBY 102 - EAST
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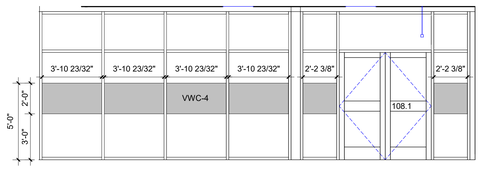
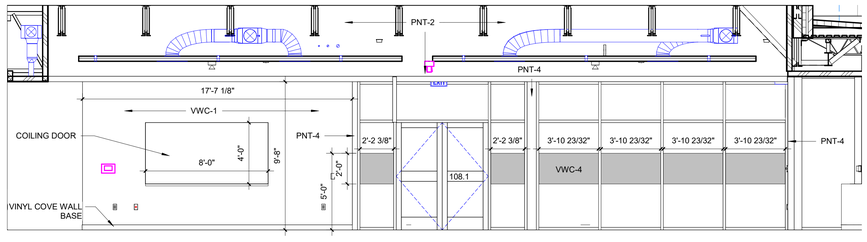
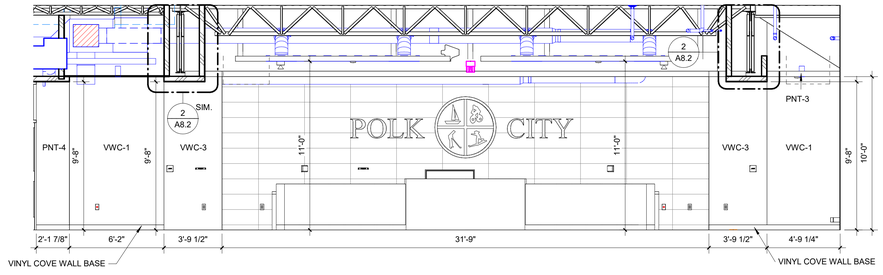


5 LOBBY 102 - NORTH
SCALE: 1/4" = 1'-0"



6 COUNCIL CHAMBERS 108 - SOUTH
SCALE: 1/4" = 1'-0"



7 COUNCIL CHAMBERS 108 - WEST
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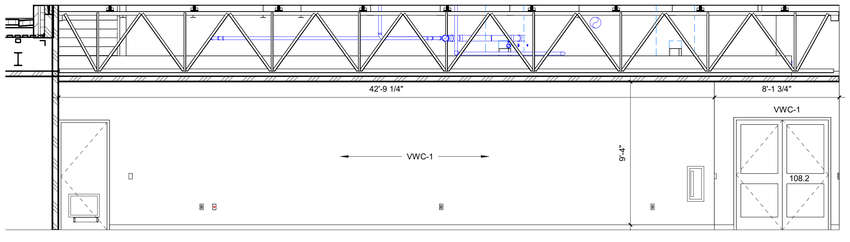

8 COUNCIL CHAMBERS 108 - NORTH
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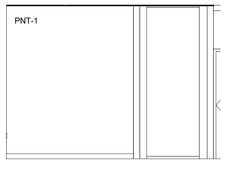
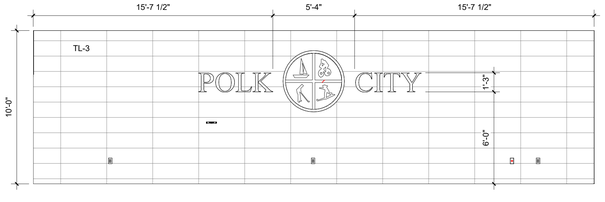
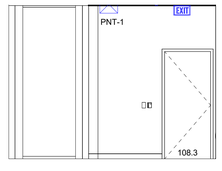


9 DIAS 109 - NORTH
SCALE: 1/4" = 1'-0"



10 DIAS 109 - WEST
SCALE: 1/4" = 1'-0"



11 DIAS 109 - SOUTH
SCALE: 1/4" = 1'-0"

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SHEET TITLE
ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
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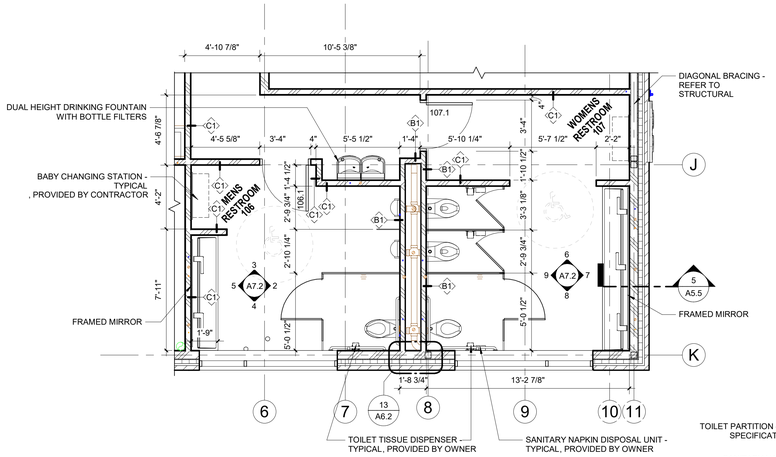
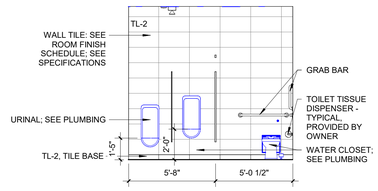
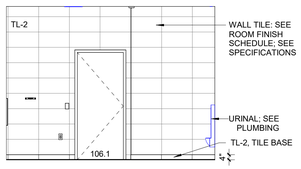


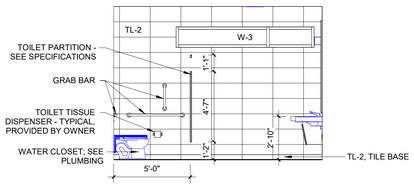
1 MAIN FLOOR RESTROOMS
SCALE: 1/4" = 1'-0"



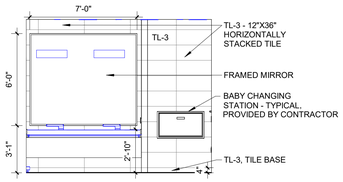
2 MENS RESTROOM 106 - EAST
SCALE: 1/4" = 1'-0"



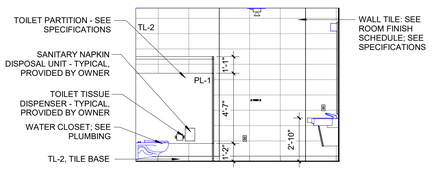
3 MENS RESTROOM 106 - NORTH
SCALE: 1/4" = 1'-0"



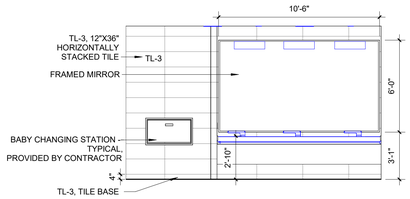
4 MENS RESTROOM 106 - SOUTH
SCALE: 1/4" = 1'-0"



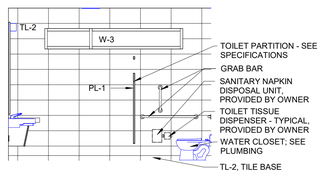
5 MENS RESTROOM 106 - WEST
SCALE: 1/4" = 1'-0"



6 WOMENS RESTROOM 107 - NORTH
SCALE: 1/4" = 1'-0"



7 WOMENS RESTROOM 107 - EAST
SCALE: 1/4" = 1'-0"



8 WOMENS RESTROOM 107 - SOUTH
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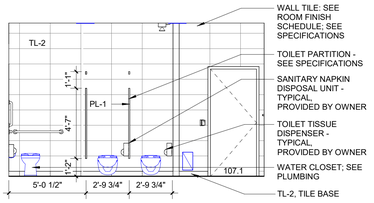

9 WOMENS RESTROOM 107 - WEST
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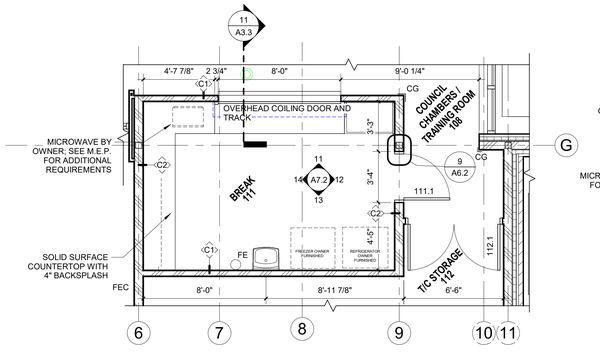
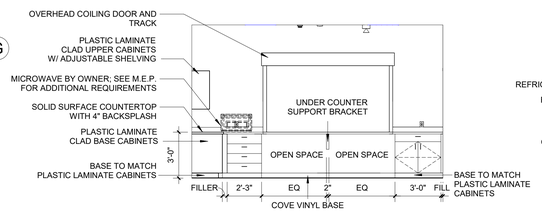
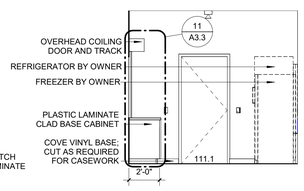


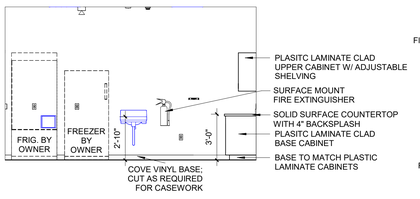
10 BREAK 111
SCALE: 1/4" = 1'-0"



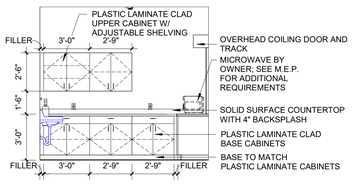
11 BREAK 111 - NORTH
SCALE: 1/4" = 1'-0"



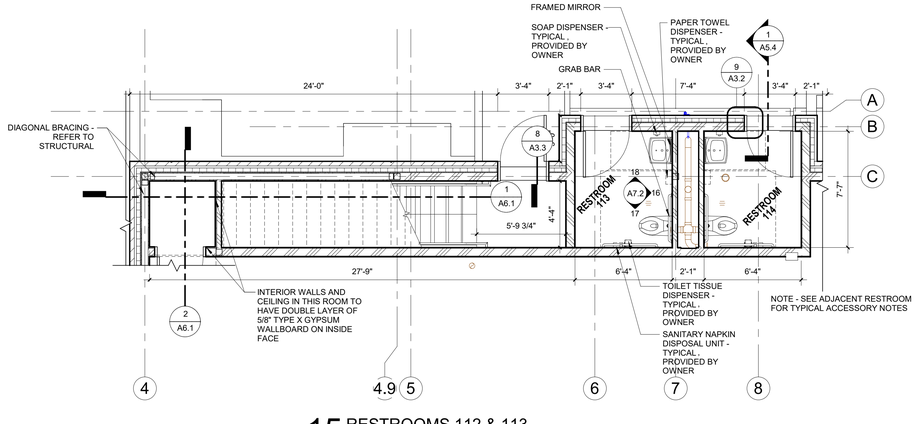
12 BREAK 111 - EAST
SCALE: 1/4" = 1'-0"



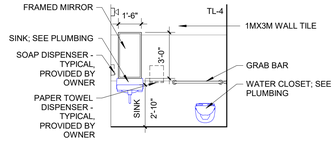
13 BREAK 111 - SOUTH
SCALE: 1/4" = 1'-0"



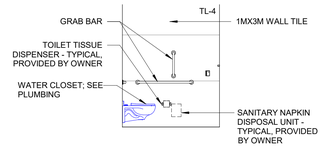
14 BREAK 111 - WEST
SCALE: 1/4" = 1'-0"



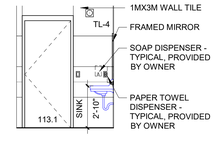
15 RESTROOMS 112 & 113
SCALE: 1/4" = 1'-0"



16 RESTROOM 113 - EAST
SCALE: 1/4" = 1'-0"



17 RESTROOM 113 - SOUTH
SCALE: 1/4" = 1'-0"



18 RESTROOM 113 - NORTH
SCALE: 1/4" = 1'-0"

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REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
A7.2

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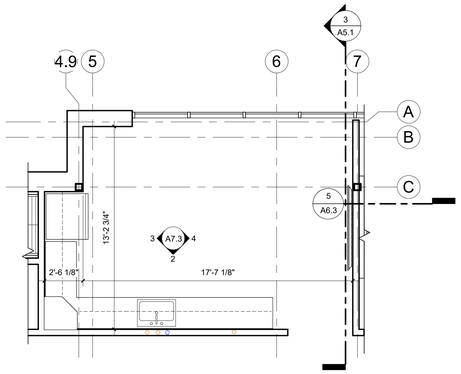
2/3/2023 3:26:48 PM



1 BREAK 212
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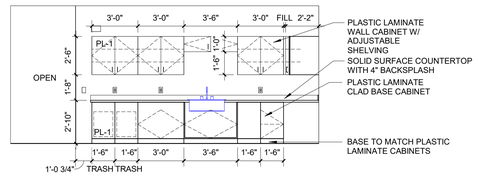

2 BREAK ROOM - SOUTH
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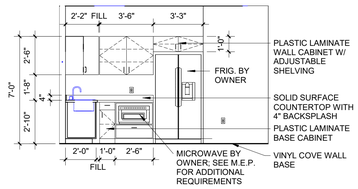

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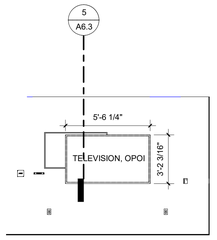

4 BREAK 212 - EAST
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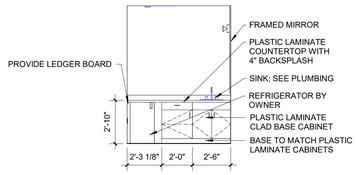

5 MOTHERS 213 - NORTH
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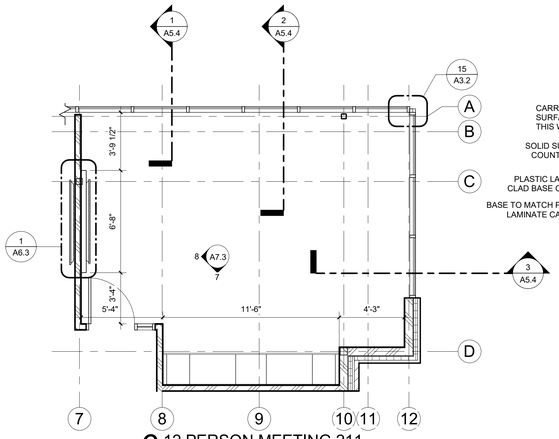

6 12 PERSON MEETING 211
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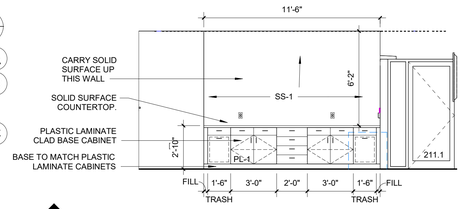

7 12 PERSON MEETING 214 - SOUTH
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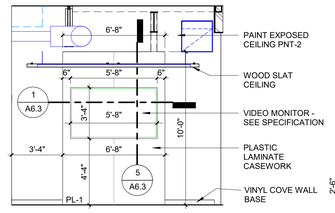

8 12 PERSON MEETING ROOM WEST
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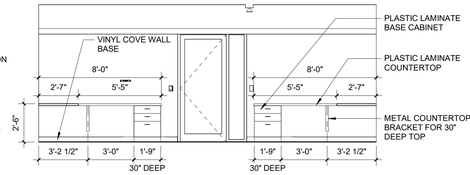
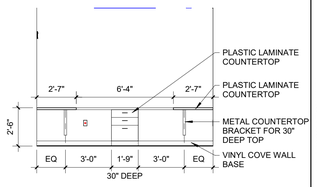


9 BUILDING DEPT. - WEST
SCALE: 1/4" = 1'-0"



10 BUILDING DEPT. - NORTH
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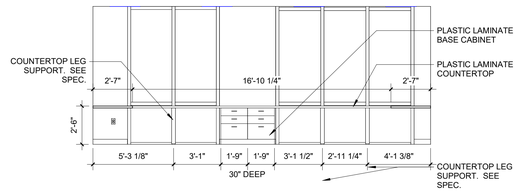

11 BUILDING DEPT. - EAST
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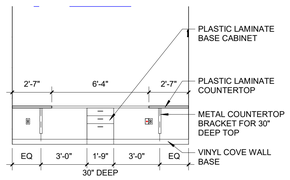

12 BUILDING DEPT. - SOUTH
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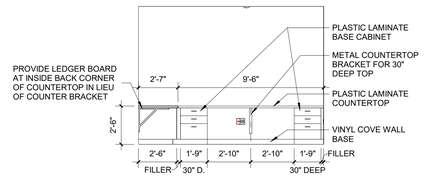
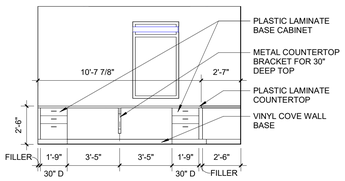
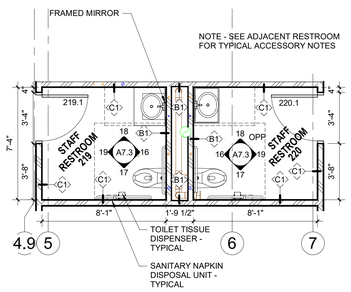


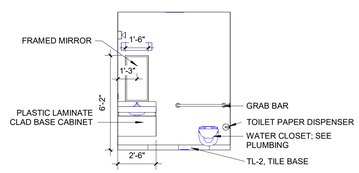
13 OPEN OFFICE 204 - WEST
SCALE: 1/4" = 1'-0"



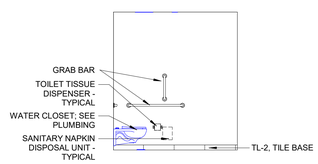
14 OPEN OFFICE 204 - SOUTH
SCALE: 1/4" = 1'-0"



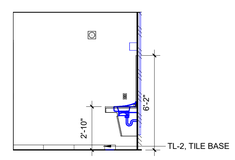
STAFF RESTROOMS 219 & 220
15 SCALE: 1/4" = 1'-0"



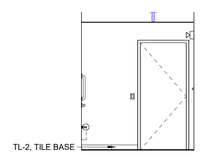
STAFF RESTROOM 219 - EAST
16 SCALE: 1/4" = 1'-0"



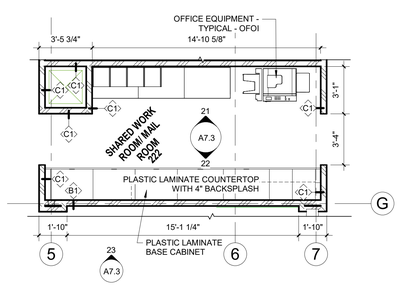
STAFF RESTROOM 219 - SOUTH
17 SCALE: 1/4" = 1'-0"



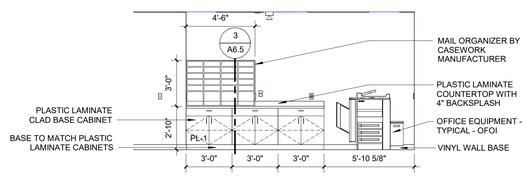
STAFF RESTROOM 219- NORTH
18 SCALE: 1/4" = 1'-0"



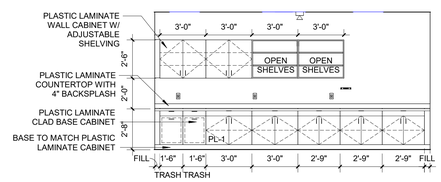
STAFF RESTROOM 219- WEST
19 SCALE: 1/4" = 1'-0"



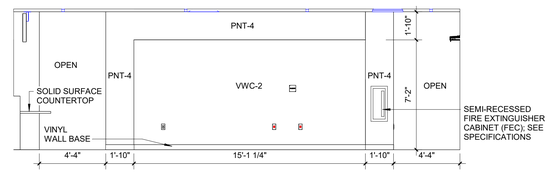
20 SHARED WORK ROOM/ MAIL ROOM
SCALE: 1/4" = 1'-0"



21 SHARED WORK ROOM/MAIL ROOM 229
SCALE: 1/4" = 1'-0"



SHARED WORK ROOM/MAIL ROOM 229 - SOUTH
22 SCALE: 1/4" = 1'-0"



23 RECEPTION ACCENT WALL
SCALE: 1/4" = 1'-0"

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IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

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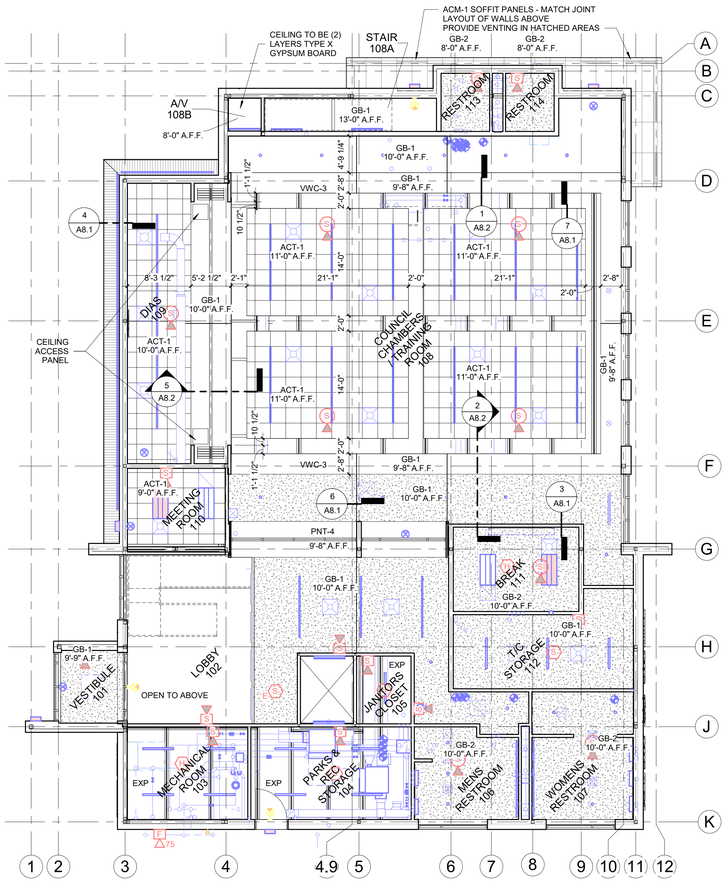
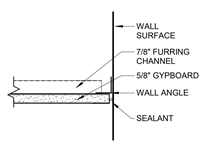
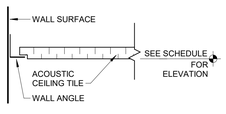


1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

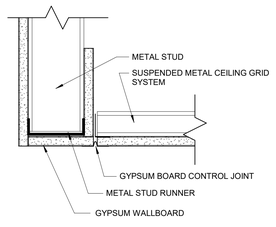
2 SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



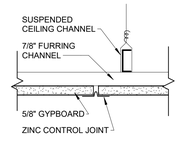
3 GYP CEILING EDGE
SCALE: 3" = 1'-0"



4 ACT EDGE
SCALE: 3" = 1'-0"



5 CEILING TRANSITION DETAIL
SCALE: 3" = 1'-0"



6 GYP CEILING JOINT
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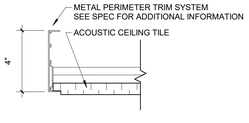

7 ACT EDGE WITH PERIMETER TRIM
SCALE: 3" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- ACOUSTIC TILE CEILING
- GYPSUM WALL BOARD
- SUPPLY AIR DIFFUSER, SEE MECHANICAL
- RETURN AIR DIFFUSER, SEE MECHANICAL
- EXHAUST FAN, SEE MECHANICAL
- CUH — CABINET UNIT HEATER, SEE MECHANICAL
- LIGHT FIXTURES, SEE ELECTRICAL
- HEIGHT OF WALL SHALL BE ADJACENT CEILING HEIGHT +8"*
- 109'-0" — CEILING HEIGHT
- 8'-0" — CEILING HEIGHT (A.F.F.)
- CONTROL JOINT

NOTES:

* ALL WALLS TO STRUCTURE UNLESS NOTED OTHERWISE.

**AT FIRE RATED WALLS, SEAL TO STRUCTURE WITH FIRESAFING INSULATION / MASTIC AT GYP BOARD WALLS OR FIRE CAULK AT MASONRY WALLS.

REFLECTED CEILING PLAN NOTES

1. CEILING GRID TO BE CENTERED EACH WAY WITHIN ROOMS AND ARE AS SHOWN ON THE REFLECTED CEILING PLAN, U.N.O.
2. ALL ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DEVICES TO BE CENTERED WITHIN CEILING TILES, U.N.O.
3. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (IF APPLICABLE) DRAWINGS FOR DUCTWORK, DEVICES, EQUIPMENT, & FIXTURES NOT SHOWN ON THE REFLECTED CEILING PLANS. COORDINATE LOCATION OF THESE ITEMS WITH THOSE SHOWN.
4. IN ROOMS AND/OR AREAS SCHEDULED TO HAVE EXPOSED STRUCTURE, ALL WALL MATERIALS AND FINISHES TO EXTEND TO UNDERSIDE OF ROOF OR FLOOR DECK, U.N.O.
5. CEMENT BOARD AND GYPSUM BOARD CEILINGS TO BE INSTALLED ON SUSPENSION SYSTEM PER PROJECT MANUAL, U.N.O.
6. WALL GYPSUM BOARD SHALL EXTEND 6" MINIMUM ABOVE HIGHEST ADJACENT CEILING AT PARTITIONS NOT IDENTIFIED TO BE FULL-HEIGHT. BRACE TOP OF WALL TO STRUCTURE ABOVE WITH METAL FRAMING AT 48" O.C. EACH WAY.
7. GYPSUM BOARD VERTICAL RETURNS ON SOFFITS AND BULKHEADS TO EXTEND 6" MINIMUM ABOVE HIGHEST ADJACENT CEILING HEIGHT, U.N.O.
8. REFER TO MECHANICAL DRAWINGS & PROJECT MANUAL FOR REQUIRED LOCATIONS OF ACCESS PANELS IN GYPSUM BOARD OR CEMENT BOARD CEILINGS NOT SHOWN ON THE REFLECTED CEILING PLANS. COORDINATE PANEL LOCATION WITH ARCHITECT.
9. PAINT ALL EXPOSED STEEL, CONDUIT, DUCTWORK, PIPING, ETC. IN ROOMS AND/OR AREAS NOTED OR SCHEDULED TO RECEIVED PAINTED FINISHES.
10. PROVIDE SUPPORT WIRE ABOVE THE CEILING AT 2'-0" O.C. ON CEILING GRID MEMBERS AROUND ALL CEILING MOUNTED PROJECTION SCREEN LOCATIONS NOTED ON THE DRAWINGS.
11. PROVIDE ESCUTCHEONS AT ALL CEILING PENETRATIONS, U.N.O.
12. HOLD GYPSUM BOARD AND/OR CEMENT BOARD 1/2" OFF STRUCTURE.
13. SEE TYPICAL WALL TYPES FOR TOP OF WALL CONSTRUCTION.

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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES

SHEET TITLE
REFLECTED CEILING PLANS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO.	DATE

PROJECT NUMBER
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SHEET
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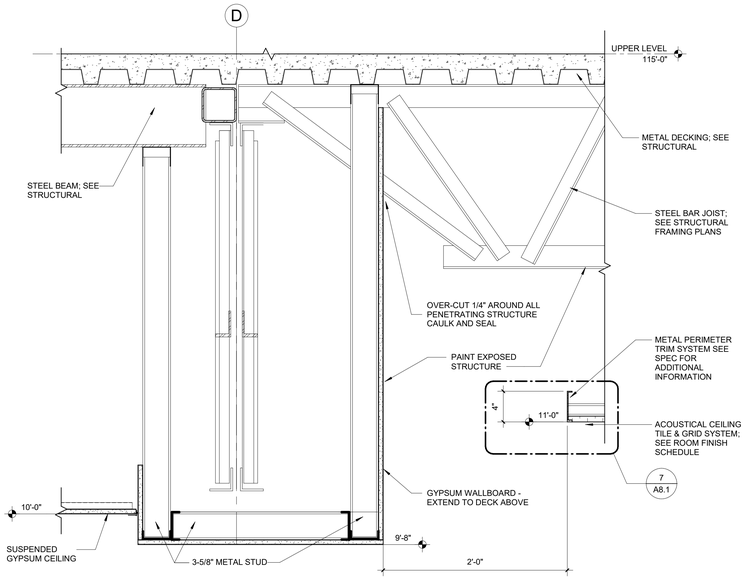
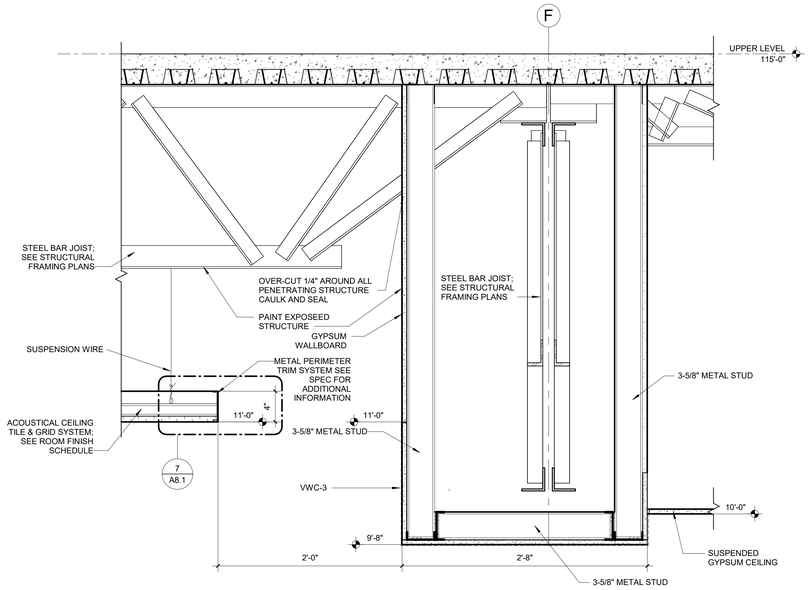
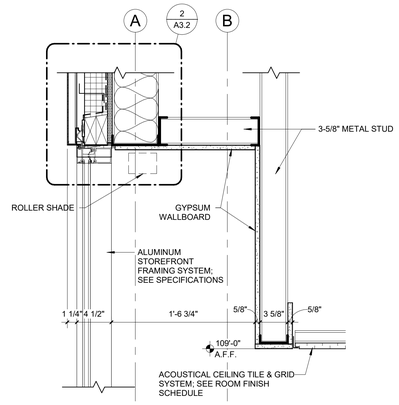


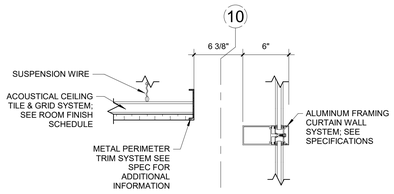
1 BULKHEAD @ COUNCIL CHAMBERS/TRAINING ROOM 1
SCALE: 1 1/2" = 1'-0"



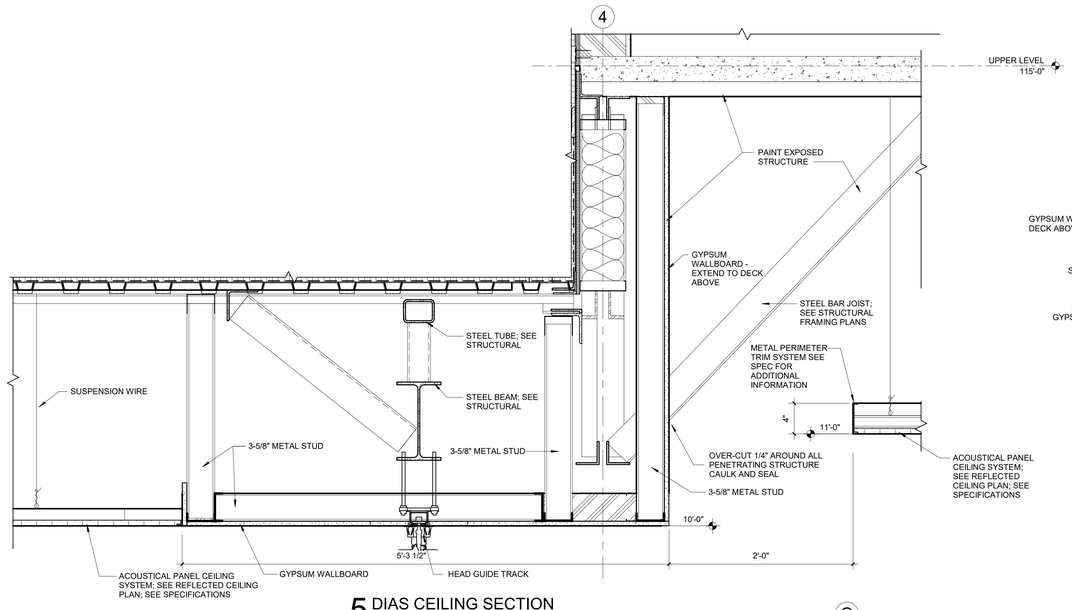
2 BULKHEAD @ COUNCIL CHAMBERS/TRAINING ROOM 2
SCALE: 1 1/2" = 1'-0"



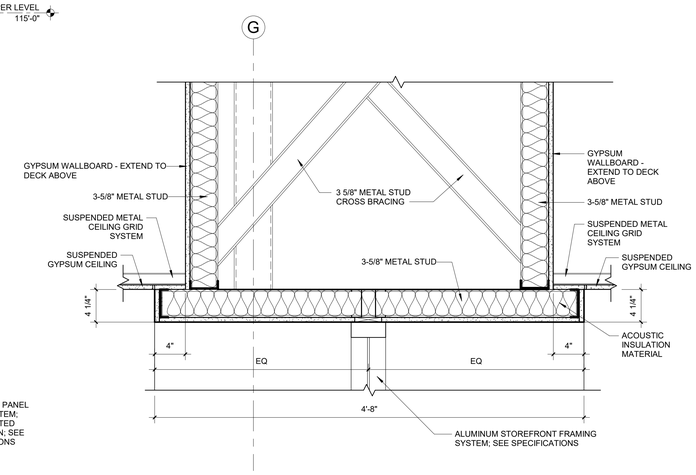
3 ACT @ CURTAIN WALL - BREAK ROOM
SCALE: 1 1/2" = 1'-0"



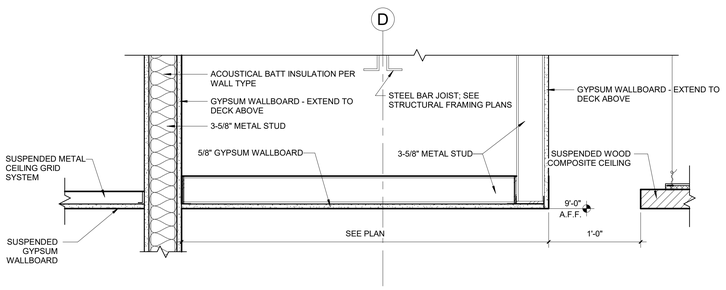
4 ACT TO CURTAIN WALL
SCALE: 1 1/2" = 1'-0"



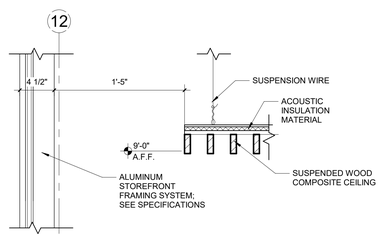
5 DIAS CEILING SECTION
SCALE: 1 1/2" = 1'-0"



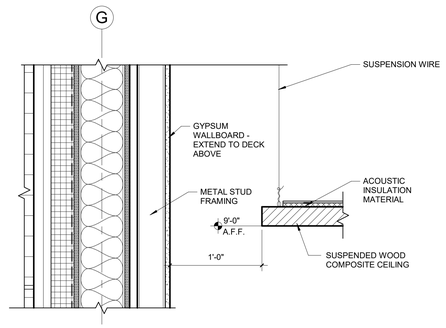
INTERIOR STOREFRONT CEILING @ LOBBY/COUNCIL CHAMBERS/TRAINING ROOM
6 SCALE: 1 1/2" = 1'-0"



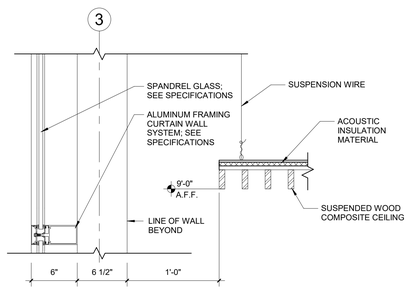
7 12 PERSON MEETING ROOM BULKHEAD
SCALE: 1 1/2" = 1'-0"



8 12 PERSON MEETING ROOM CEILING CONNECTION
SCALE: 1 1/2" = 1'-0"



9 LOBBY CEILING
SCALE: 1 1/2" = 1'-0"



10 LOBBY CEILING CONNECTION
SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
REFLECTED CEILING PLAN DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2/13/2023

REV. NO.	DATE

PROJECT NUMBER
2022213.02

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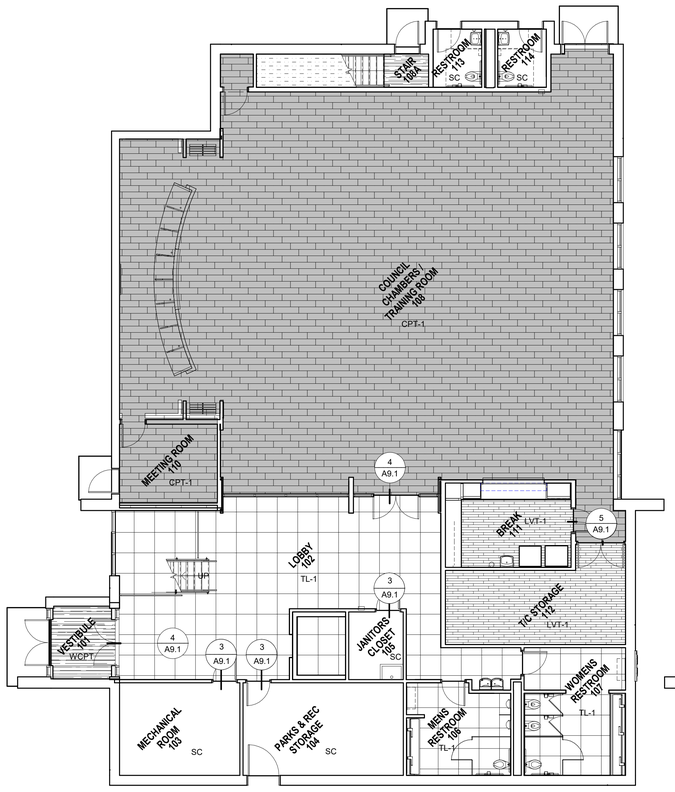

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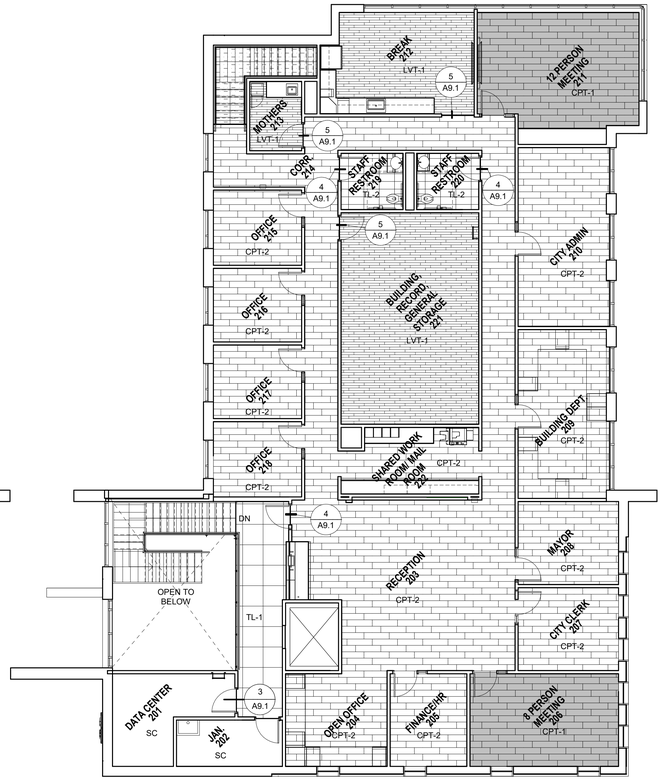
1 MAIN FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"



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2 UPPER FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL NORTH	WALL SOUTH	WALL EAST	WALL WEST	CEILING FINISH	CEILING HEIGHT	COMMENTS
101	VESTIBULE	WCPT	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	GB-1	9'-9 3/4" AFF	4
102	LOBBY	TL-1	VB-1	PNT-1, PNT-4, VWC-4	PNT-1,TL-3	PNT-1,VWC-2	PNT-1	EXP-P, WD-1	9'-0" AFF	
103	MECHANICAL ROOM	SC	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP-P	-	4
104	PARKS & REC STORAGE	SC	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP-P	-	4
105	JANITORS CLOSET	SC	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP-P	-	4
106	MENS RESTROOM	TL-1	TL-2	TL-2	TL-2	TL-2	TL-3	GB-2	10'-0" AFF	2
107	WOMENS RESTROOM	TL-1	TL-2	TL-2	TL-2	TL-3	TL-2	GB-2	10'-0" AFF	2
108	COUNCIL CHAMBERS / TRAINING ROOM	CPT-1	VB-1	VWC-1	VWC-1, PNT-4	VWC-1,	VWC-1, VWC-3	EXP-P, ACT-1	VARIES	3
108A	STAIR	WCPT, RBR	VB, RBR	PNT-1	PNT-1	PNT-1	PNT-1	GB-1	-	4
108B	A/V	CPT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	GB-1	8'-0" AFF	4
109	DIAS	CPT-1	VB-1	VWC-1	VWC-1	-	TL-3	GB-1, ACT-1	10'-0" AFF	3
110	MEETING ROOM	CPT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
111	BREAK	LVT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	GB-1	10'-0" AFF	3
112	T/C STORAGE	LVT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	GB-1	10'-0" AFF	4
113	RESTROOM	SC	TL-4	TL-4	TL-4	TL-4	TL-4	GB-2	8'-0" AFF	2
114	RESTROOM	SC	TL-4	TL-4	TL-4	TL-4	TL-4	GB-2	8'-0" AFF	2
201	DATA CENTER	SC	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP-P	-	4
202	JAN.	SC	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP-P	-	4
203	RECEPTION	TL-1, CPT-2	VB-1	PNT-4, VWC-2	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
204	OPEN OFFICE	CPT-2	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
205	FINANCE/HR	CPT-2	VB-1	PNT-1	PNT-1	PNT-1	PNT-6	ACT-1	9'-0" AFF	3
206	8 PERSON MEETING	CPT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-7	EXP-P, WD-1	9'-0" AFF	3
207	CITY CLERK	CPT-2	VB-1	PNT-4	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
208	MAYOR	CPT-2	VB-1	PNT-1	PNT-5	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
209	BUILDING DEPT.	CPT-2	VB-1	PNT-1	PNT-6	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
210	CITY ADMIN	CPT-2	VB-1	PNT-1	PNT-7	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
211	12 PERSON MEETING	CPT-1	VB-1	PNT-1	PNT-1, SS-1	PNT-1	PNT-1, PL-1	EXP-P, WD-1	9'-0" AFF	3
212	BREAK	LVT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
213	MOTHERS	LVT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	3
214	CORR.	CPT-2	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	
215	OFFICE	CPT-2	VB-1	PNT-1	PNT-1	PNT-4	PNT-1	ACT-1	9'-0" AFF	3
216	OFFICE	CPT-2	VB-1	PNT-1	PNT-1	PNT-5	PNT-1	ACT-1	9'-0" AFF	3
217	OFFICE	CPT-2	VB-1	PNT-1	PNT-1	PNT-6	PNT-1	ACT-1	9'-0" AFF	3
218	OFFICE	CPT-2	VB-1	PNT-1	PNT-1	PNT-7	PNT-1	ACT-1	9'-0" AFF	3
219	STAFF RESTROOM	CT-2	CT-2	EPNT-1	EPNT-1	EPNT-1	EPNT-1	GB-2	9'-0" AFF	2
220	STAFF RESTROOM	CT-2	CT-2	EPNT-1	EPNT-1	EPNT-1	EPNT-1	GB-2	9'-0" AFF	2
221	BUILDING, RECORD, GENERAL STORAGE	LVT-1	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	4
222	SHARED WORK ROOM/ MAIL ROOM	CPT-2	VB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0" AFF	4

ROOM FINISH NOTES

1. FINISHES FOR CLOSETS AND AREAS NOT SHOWN SHALL RECEIVE THE SAME FINISH TO THAT OF THE ADJACENT ROOM.
2. ELECTRICAL PANELS AND ACCESS DOOR PANELS SHALL BE PRIMED AND PAINTED TO MATCH ADJACENT WALLS (VERIFY WITH OWNER).
3. CONCRETE FLOORS THAT ARE NOT SCHEDULED FOR A FINISH FLOOR MATERIAL SHALL RECEIVE SEALER PER THE PROJECT MANUAL. CONCRETE FLOORS ARE TO BE CLEANED OF ALL FOREIGN MATERIAL PRIOR TO THE APPLICATION OF THE SEALER.
4. PROVIDE EXPANSION JOINTS AT ALL SLAB EDGES AGAINST EXTERIOR WALLS. REFER TO STRUCTURAL.
5. SLOPE INTERIOR FLOOR SLAB TO DRAIN AT 1/8" PER FOOT WHERE SLOPED SLABS ARE INDICATED, U.N.O.
6. FLOOR SLAB TO BE SLOPED DOWN AROUND DRAINS WHERE FLOOR SLAB IS NOT INDICATED TO BE SLOPED, EXCEPT IN RESTROOMS WITH TILE. IN RESTROOMS WITH TILE, INSTALL DRAIN TO BE FLUSH WITH ADJACENT FLOOR TILE. REFER TO MECHANICAL DRAWINGS FOR ALL FLOOR DRAINS.
7. FLOOR DRAINS AND TRENCH DRAINS INDICATED FOR LOCATION AND CONFIGURATION ONLY, REFER TO MECHANICAL DRAWINGS FOR PRODUCT AND PIPING INFORMATION.
8. JOINT LAYOUT LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. VERIFY LAYOUT / LOCATIONS WITH ARCHITECT PRIOR TO BEGINNING WORK AND SUBMIT JOINT LAYOUT DRAWING FOR APPROVAL.
9. VERIFY WALL AND FLOOR TILE PATTERN LAYOUT WITH ARCHITECT PRIOR TO BEGINNING WORK.
10. 4X4, 8X8 TILE JOINTS (BOTH ON WALL AND FLOOR) ARE TO ALIGN WITH MASONRY JOINTS ON WALL. WHERE TILE JOINTS DO NOT ALIGN WITH THAT OF CMU, CUT TILES AT MIDDLE OF THE RUN OR AT THE DOOR, OR AS SHOWN ON FLOOR FINISH PLANS. IF DISCREPANCY IS FOUND, CONTACT ARCHITECT BEFORE LAYING TILE.
11. DEPRESS CONCRETE SLABS FOR FLOOR FINISHES OVER 1/2" DEPTH. VERIFY DEPTH REQUIRED.
12. ALL FLOOR FINISH TRANSITIONS TO BE LOCATED UNDER DOOR CENTERLINES, U.N.O.

FLOOR FINISH LEGEND

- WCPT: WALK-OFF CARPET TILE
- CPT-1 : CARPET TILE, TYPE 1
- CPT-2 : CARPET TILE, TYPE 2
- LVT-1: LUXURY VINYL TILE, TYPE 1
- SC: SEALED CONCRETE
- TL-1: TILE, TYPE 1
- TL-2: TILE, TYPE 2
- RBR: RUBBER

ROOM FINISH SCHEDULE LEGEND

FLOORS

CPT	CARPET TILE
TL	TILE
SC	SEALED CONCRETE
LVT	LUXURY VINYL TILE
WCPT	WALK-OFF CARPET TILE
RBR	RUBBER

BASE

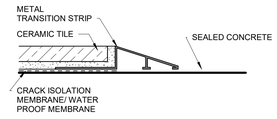
TL	TILE BASE
VB	VINYL BASE

WALL

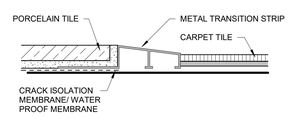
TL	TILE
PNT	PAINT
VWC	VINYL WALLCOVERING

CEILING

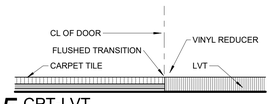
ACT-1	ACOUSTICAL CEILING TILE, TYPE 1
EXP	EXPOSED STRUCTURE, NO PAINT
EXP-P	EXPOSED STRUCTURE, PAINT
GB-P	GYPSUM BOARD, PAINT
WP	WOOD PANEL



3 TL-SC
SCALE: 12" = 1'-0"



4 TL-CPT
SCALE: 12" = 1'-0"



5 CPT-LVT
SCALE: 12" = 1'-0"

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SHEET TITLE
FLOOR FINISH PLANS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

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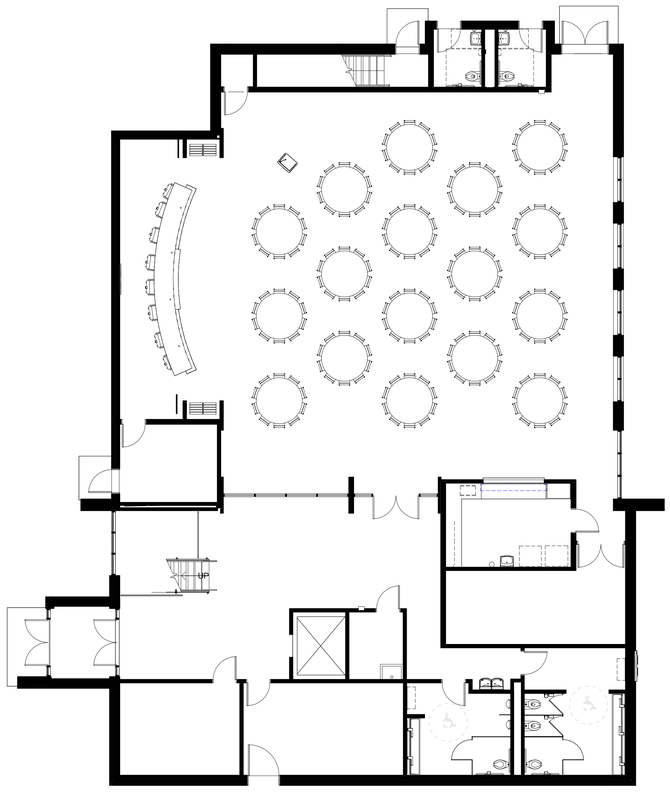
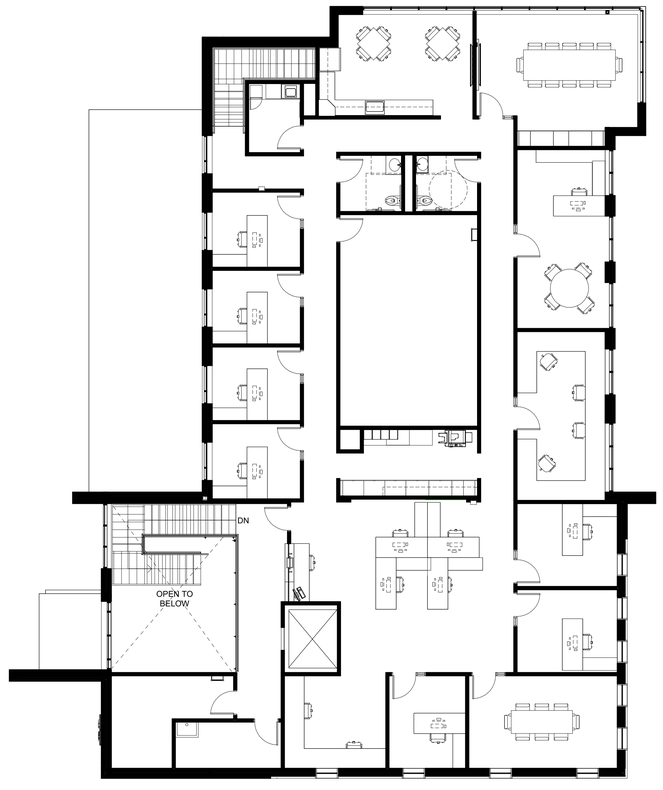
FURNITURE SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY. OWNER WILL PROCURE AND HAVE FURNITURE INSTALLED UNDER SEPARATE CONTRACT.



1 MAIN FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"



2 UPPER FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"

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SHEET TITLE
FURNITURE LAYOUT PLANS

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CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

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GENERAL NOTES

DESIGN CRITERIA:

1. CODES AND STANDARDS:
   2018 IBC/ASCE 7-16
   OCCUPANCY/RISK CATEGORY II

2. DESIGN DEAD LOADS:
   METAL STAIR: 30 PSF
   OPEN WEB STEEL JOIST ROOF SYSTEM: 20 PSF, TYPICAL
   COMPOSITE JOISTS AND DECK SYSTEM: 42 PSF, TYPICAL

3. DESIGN LIVE LOADS:
   ROOF:
   MINIMUM LIVE LOAD: 20PSF
   (SEE SNOW DRIFT LOADING PLAN ON S2.0)
   GROUND SNOW LOAD: Pg = 25 PSF
   SNOW EXPOSURE FACTOR: Ce = 1.0
   SNOW THERMAL FACTOR: Ct = 1.0 FOR HEATED/VENTED ROOFS
   Ct = 1.1 FOR COLD OR OPEN ROOFS
   SNOW LOAD IMPORTANCE FACTOR: 1.0
   PLUS ALLOWANCE FOR DRIFTED AND UNBALANCED SNOW

   FLOOR:
   CORRIDORS/LOBBY: 100PSF
   STAIRS: 100PSF
   MECHANICAL ROOMS: 150 PSF OR POSTED M,E,P LOADS
   STORAGE (LIGHT): 125PSF
   OFFICES: 65PSF (50PSF + 15PSF PARTITION) UNIFORM OR 2000 LB CONC.

4. WIND LOAD:
   BASIC WIND SPEED: 115 M.P.H.
   WIND EXPOSURE: B
   WIND DIRECTIONAL FACTOR: 0.85
   TOPOGRAPHIC FACTOR: 1.0
   WIND ANALYSIS FOR LOW RISE BUILDING BASED ON ASCE 7-16/2018 IBC.
   SUPPLIER OF COMPONENTS OF STRUCTURE RESPONSIBLE FOR CALCULATING WIND LOADS BASED ON THE VALUES LISTED ABOVE.
   UPLIFT PRESSURE TO BE CONSIDERED ON ALL ROOF COMPONENTS.

5. SEISMIC LOAD:
   SPECTRAL ACCELERATIONS: Ss = 0.06
   SPECTRAL ACCELERATIONS: S1 = 0.05
   SITE COEFFICIENTS: Fa = 1.6
   Fv = 2.4
   DESIGN SPECTRAL RESPONSE ACCELERATION: Sds = 0.064
   DESIGN SPECTRAL RESPONSE ACCELERATION: Sd1 = 0.08
   RISK/OCCUPANCY CATEGORY: II
   IMPORTANCE FACTOR: I = 1.0
   SITE CLASS: D
   SEISMIC DESIGN CATEGORY: B

6. SEISMIC - RESISTING SYSTEM:
   A. ORIDINARY CONCENTRIC BRACED FRAMES NOT DETAILED FOR SEISMIC CONDITIONS.
   R = 3, Cd = 3, OVERSTRENGTH FACTOR = 3

FOUNDATIONS

DESIGN:

1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE ON THE GEOTECHNICAL EXPLORATION REPORT BY: TERRACON CONSULTANTS, INC. ON OCTOBER 21ST 2022.

2 BACKFILLING:
   A. DO NOT BACKFILL PIT WALLS UNTIL ADEQUATE TEMPORARY BRACING IS INSTALLED.
   B. BACKFILL UNDER FOUNDATION WITH CONCRETE OR AS APPROVED BY SOILS ENGINEER.

SPREAD FOOTINGS:

1. FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET BEARING PRESSURE UNDER FULL SERVICE LIVE AND DEAD LOAD AS FOLLOWS:
   2000 PSF FOR FOUNDATIONS BEARING ON SUITABLE STRUCTURAL FILL OUTLINED IN THE GEOTECHNICAL REPORT.
2. TOP OF FOOTING (TOF) ELEVATIONS ARE SHOWN ON THE PLANS.
3. FOOTING MAY BE EARTH FORMED.
4. ALL BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED TECHNICIAN PRIOR TO CONCRETE PLACEMENT. A QUALIFIED TECHNICIAN SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED. OVEREXCAVATION MAY BE REQUIRED.
5. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW FINAL GRADE.
6. SLIDING RESISTANCE (VALUES INCLUDE A 1.50 SAFETY FACTOR)
   A. PASSIVE EQUIVALENT FLUID PRESSURE = 285 PCF FOR FINE-GRAINED SOILS
   PASSIVE EQUIVALENT FLUID PRESSURE = 360 PCF FOR COARSE-GRAINED SOILS
   B. COEFFICIENT OF FRICTION = 0.3 ON SUITBALE BEARING MATERIAL

INTERIOR SLAB JOINT PLACEMENT

1. INTERIOR CONSTRUCTION JOINTS
   A. PROVIDE CONSTRUCTION JOINTS:
      1.) AT ALL COLD JOINTS IN SLABS
      2.) AS REQUIRED BY THE DRAWINGS

2. INTERIOR CONTROL JOINTS:
   A. EXPOSED SLABS (THOSE WHICH RECEIVE NO FINISHED FLOOR SURFACE MATERIAL) SHALL BE POURED IN LONG STRIPS WITH SAWED OR TOOLED CONTROL JOINTS. STRIP WIDTHS SHALL NOT EXCEED . AT CONTRACTOR'S OPTION, CONCRETE MAY BE PLACED IN A CHECKER BOARD PATTERN, ALLOWING 72 HOURS BETWEEN ADJACENT POURS. DISTANCE BETWEEN CONTROL JOINTS SHALL NOT EXCEED TABULATED VALUES, SHALL BE LOCATED TO CONFORM TO BAY SPACING WHENEVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, ETC.), AND BE LOCATED AS REQUIRED BY THE DRAWINGS.
   B. ALL CONTROL JOINTS ARE TO BE FILLED WITH THE SEALANT INDICATED IN THE SPECIFICATIONS. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION.
   C. COVERED SLABS (THOSE WHICH RECEIVE FINISHED FLOOR SURFACE MATERIALS SHALL BE MONOLITHICALLY POURED IN AREAS AS LARGE AS CONTRACTOR DESIRES. JOINTS SHALL CONFORM TO CONSTRUCTION JOINT DESIGN.

3. INTERIOR ISOLATION JOINTS:
   A. PROVIDE ISOLATION JOINTS:
      1. AT ALL COLUMNS
      2. AT ALL JUNCTIONS OF SLABS AND VERTICAL SURFACES
      3. AS REQUIRED BY DRAWINGS

SLAB-ON-GRADE CONTROL JOINT SPACING	
SLAB THICKNESS	MAXIMUM JOINT SPACING
4"	12'-0"
5"	13'-0"
6"	14'-0"
8"	17'-0"
12"	22'-0"

CONCRETE

1. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE WITH THE SPECIFICATION.
2. REINFORCING SHALL CONFORM TO A.S.T.M. A615, GR. 60, INCLUDING TIES AND STIRRUPS.
3. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.
4. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH A.C.I. DETAILING MANUAL.
5. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH C.R.S.I. "REINFORCING BAR DETAILING".
6. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
   A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 IN.
   B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2 IN. FOR #5 BAR OR SMALLER 2 IN FOR #6 BAR OR LARGER
   C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
      1. WALLS, SLABS: 3/4 IN.
      2. BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS): 1 1/2 IN.
7. ALL CONSTRUCTION JOINTS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE, UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE DETAILED ON SHOP DRAWINGS. REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT.
8. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBER.
9. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY ANCHORS, PRECAST BEARING LEDGES, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
11. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF A.C.I. 301.
12. MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC.
13. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B", CASE 2 SPLICES. SPLICES f'c = 4000PSI, fy = 60,000PSI

TENSION LAP SPLICE FOR TOP BARS, * GRADE 60		
LAP SPLICE LENGTH (INCHES)		
BAR SIZE		f'c = 4,000 P.S.I.
#3		37
#4		49
#5		61
#6		73
#7		106
#8		121
* "TOP BARS" ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.		

TENSION LAP SPLICE FOR OTHER BARS, GRADE 60		
LAP SPLICE LENGTH (INCHES)		
BAR SIZE		f'c = 4,000 P.S.I.
#3		28
#4		37
#5		47
#6		56
#7		81
#8		93

COMPRESSION LAP SCHD.	
LAP LENGTH (INCHES)	
f'c = 3,000 P.S.I. OR GREATER	
BAR SIZE	30 db
#3	12
#4	15
#5	19
#6	23
#7	26
#8	30

NOTES:

1. TABLES ARE BASED ON ACI 318-05 SEC. 12.2.2.
2. ALL SPLICES TO BE CLASS "B" TENSION SPLICE UNLESS OTHERWISE NOTED.
3. SPLICE PLAIN WELDED WIRE FABRIC BY LAPPING ONE FULL MESH SPACE PLUS 2 INCHES.
4. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LENGTHS IN TABLE BY 1.3
5. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS IN TABLE BY 1.5.
6. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS

14. REFER TO MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS AND INERTIA BASES AT MECHANICAL EQUIPMENT.
15. REFER TO MECHANICAL DRAWINGS FOR UNDERFLOOR AND PERIMETER FOUNDATION DRAIN.
16. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" CONCRETE.
17. PROVIDE CONTINUOUS WATERSTOP AT HORIZONTAL AND VERTICAL JOINTS AT ELEVATOR PIT
18. WHERE REINFORCING IS NOT INDICATED OR DEFINED, INCLUDE FOR BID PURPOSES ONLY.
    A. WALLS: #5 EACH WAY EACH FACE. SPACING IN INCHES = 140/(WALL THICKNESS IN INCHES BUT NOT OVER 18"O.C.
    B. BEAMS: 1-#9 CONTINUOUS TOP AND BOTTOM FOR EACH 100 SQUARE INCHES OF BEAM CROSS SECTIONAL AREA AND #4 STIRRUPS SPACED AT 1/2 OF BEAM DEPTH, FULL LENGTH OF BEAM.
    C. COLUMNS: 1-#9 VERTICAL PER 50 SQUARE INCHES OF CROSS SECTIONAL AREA AND #3 TIES AT 9"O.C.
    D. SLABS: #5 EACH WAY TOP AND BOTTOM. SPACING IN INCHES = 100/(SLAB THICKNESS IN INCHES) BUT NOT OVER 18"O.C.

    ON SHOP DRAWINGS, INDICATE ABOVE REINFORCING AS "PER GENERAL NOTES". SUCH REINFORCING MAY BE REVISED OR RELOCATED BY STRUCTURAL ENGINEER DURING SHOP DRAWING REVIEW.
19. PROVIDE CONCRETE EQUIPMENT PADS, INERTIA BASES AND CURBS AS NOTED ELSEWHERE IN CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH #4 x 0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18"O.C. EACH WAY. REINFORCE PADS WITH #4@18 EACH WAY TOP AND BOTTOM.
20. PROVIDE STANDARD HOOKS ON BARS TERMINATING AT A CONCRETE FACE UNLESS NOTED (E.G.: EDGES OF OPENINGS, SLAB EDGES, EXPANSION JOINTS, ENDS OF BEAMS, AND AT: TOP, BOTTOM AND ENDS OF WALLS, ETC...).
21. PROVIDE 2-#5 (MIN.) @ EACH SIDE OF OPENING. EXTEND 2'-0 BEYOND OPENINGS.
22. SEE MISC. NOTE #16 FOR EPOXY / ADHESIVE ANCHORS.

COMPOSITE METAL DECK

1. DEPTH OF DECK AND SLAB, TYPE OF DECK, STEEL GAUGES AND SLAB REINFORCING ARE SHOWN ON THE PLANS AND SCHEDULES.
2. UNLESS NOTED OTHERWISE, TEMPORARY SHORING OF COMPOSITE DECK IS NOT REQUIRED FOR ANTICIPATED CONSTRUCTION LOAD (WET CONCRETE WEIGHT PLUS 20 P.S.F. CONSTRUCTION LOAD). SEE SPECIFICATIONS FOR DEFLECTION LIMITATION. ALLOWABLE CONSTRUCTION LOADS SHALL BE SHOWN ON THE ERECTION DRAWINGS
3. CONTRACTOR SHALL FURNISH THE ADDITIONAL CONCRETE DUE TO WET CONCRETE DEFLECTION OF THE COMPOSITE DECK AND BEAMS.
4. DECK SHOP DRAWINGS SHALL INDICATE THE TYPE, SIZE, SHEAR VALUE, AND LAYOUT OF SHEAR CONNECTORS (S.C.) REQUIRED FOR COMPOSITE BEAMS. SEE SPECIFICATIONS AND COMPOSITE BEAM NOTES FOR S.C. REQUIREMENTS.
5. THE DECK ACTING COMPOSITELY WITH THE SLAB, SHALL BE CAPABLE OF SUPPORTING BOTH THE FINAL DESIGN LIVE LOAD AND SUPERIMPOSED DEAD LOAD SPECIFIED ON THESE DRAWINGS NO METAL FLOOR DECK USED IN THE BUILDING SHALL HAVE SECTION PROPERTIES PER FOOT OF WIDTH LESS THAN THE FOLLOWING:

   2VLI-36 GRADE 50 STEEL
   20 GAUGE
   I (POSITIVE) = 0.403 IN^4
   I (NEGATIVE) = 0.402 IN^4
   S (POSITIVE) = 0.326 IN^3
   S (NEGATIVE) = 0.337 IN^3
6. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. WELD STUDS THROUGH METAL DECK.
8. ELECTRICAL CONDUIT SHALL BE ROUTED BELOW METAL DECK. NO CONDUIT, PIPING, JUNCTION BOXES, OR OTHER ITEMS SHALL BE ALLOWED TO BE EMBEDDED IN CONCRETE SLAB WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
9. DECK SUPPLIER TO PROVIDE DECK CLOSURE WHERE REQUIRED FOR CONCRETE POUR.

COMPOSITE BEAMS

1. NUMBER OF SHEAR CONNECTORS (S.C.) SHOWN ON THE DRAWINGS ARE BASED UPON THE ASSUMED SHEAR CAPACITIES THAT FOLLOW:
   A. 11.5K EACH FOR NORMAL WEIGHT CONCRETE (145PCF)
   B. 9.5K EACH FOR LIGHT WEIGHT CONCRETE (115PCF)
2. S.C. CAPACITY VARIES WITH THE TYPE AND LENGTH OF THE S.C. AND WITH THE PROPERTIES OF THE COMPOSITE DECK. THE S.C. SUPPLIER SHALL DETERMINE THE TYPE AND LENGTH OF SHEAR CONNECTOR CONSISTENT WITH THE COMPOSITE DECK PROPERTIES AND IN ACCORDANCE WITH ALL A.I.S.C. REQUIREMENTS, INCLUDING MAXIMUM ALLOWABLE SPACING. THE NUMBER OF SHEAR CONNECTORS SHALL BE ADJUSTED AS REQUIRED.
3. S.C. TYPE, LENGTH, SHEAR VALUE, AND DETAILED LAYOUT SHALL BE SUBMITTED WITH THE COMPOSITE METAL DECK SHOP DRAWINGS. SEE COMPOSITE METAL DECK NOTES.
4. MAXIMUM HEIGHT OF S.C. SHALL NOT EXCEED THE SLAB DEPTH MINUS 1".
5. SPACING OF S.C. WITHIN A GIVEN LENGTH SHALL BE AS UNIFORM AS POSSIBLE.
6. UNLESS NOTED OTHERWISE NON-COMPOSITE AND COMPOSITE BEAMS DO NOT REQUIRE TEMPORARY SHORING.
7. CONTRACTOR SHALL FURNISH THE ADDITIONAL CONCRETE DUE TO WET CONCRETE DEFLECTION OF THE COMPOSITE BEAMS.
8. NO SHOP PAINT ON S.C. OR ON THE TOP SURFACE OF THE BEAMS THAT RECEIVE FIELD WELDED S.C.

METAL ROOF DECK

1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.
2. PROJECT SPECIFICATIONS SEE PLANS FOR DECK TYPES AND GAUGES. METAL ROOF DECK HAS BEEN DESIGNED TO FUNCTION AS A DIAPHRAGM FOR THE TRANSMISSION OF LATERAL LOADS. CONNECTION OF DECK UNITS TO EACH OTHER AND TO SUPPORTS SHALL BE DESIGNED BY THE DECK SUPPLIER CONSISTENT WITH THE DECK PROPERTIES AND MANUFACTURER'S RECOMMENDATIONS.
3. LAP DECK 4" MINIMUM AT SPLICES CENTERED ON SUPPORT. WHERE DECK PROFILE DOES NOT ALLOW LAPPING (i.e. DOVETAIL PROFILE), AND WHERE DECK SPLICE OCCURS AT STEEL JOIST OR OTHER BUILT-UP SECTION, PROVIDE CONTINUOUS 8" WIDE LIGHT GAUGE STRIP, LAP 4" WITH EACH SIDE OF DECK, STRIP GAUGE TO MATCH DECK GAUGE.
4. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CEILINGS, PIPES, DUCTS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.
5. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.
6. 1 1/2" DEEP (TYPE B) AND ROLLED OF STEEL SHEETS WITH A MINIMUM YIELD STRENGTH = 50 K.S.I. NO METAL ROOF DECK SHALL HAVE SECTION PROPERTIES PER FOOT OF WIDTH LESS THAN THE FOLLOWING:

   TYPE B (WIDE RIB)
   20 GAUGE
   I (POSITIVE) = 0.197 IN^4, I (NEGATIVE) = 0.217 IN^4
   S (POSITIVE) = 0.224 IN^3, S (NEGATIVE) = 0.229 IN^3
7. DECKING MANUFACTURER SHALL COORDINATE SIZE AND LOCATION OF ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

STRUCTURAL STEEL

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
   ALL WF (U.N.O.): A992 GRADE 50 (FY=50)
   ALL ANGLE, BASE PLATES, CONN. PLATES (U.N.O.): A36 (FY=36)
   STRUCTURAL PIPE: A53 (FY=35)
   STRUCTURAL TUBE: A500 GRADE B (FY=46)
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE A.I.S.C. CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
3. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN, OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER, REGISTERED IN DESIGNED BY AN ENGINEER, REGISTERED IN THE STATE OF IOWA, RETAINED BY THE FABRICATOR. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE DETAIL:
   A. ALL PLATE DIMENSIONS AND GRADES.
   B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.
   C. ALL HOLE SIZES AND SPACINGS.
   D. NUMBER AND TYPES OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.
   E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR THE CONNECTION.

   DESIGN CALCULATIONS FOR TYPICAL BEAM CONNECTIONS AND ALL PRIMARY BRACING AND HANGER CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
4. CONNECTION DESIGN FORCES:
   A. BEAMS, GREATER OF:
      1. 55% OF TOTAL ALLOWABLE UNIFORM LOAD CAPACITY FROM A.I.S.C 14TH EDITION TABLES FOR ALLOWABLE LOADS ON BEAMS, Wc/L
      2. REACTIONS SHOWN ON DRAWINGS.
      3. 10 KIPS.
   B. MOMENT CONNECTIONS INDICATED ON THE DRAWINGS THUS: DESIGN FOR MOMENT SHOWN OR, IF NOT SHOWN, DEVELOP MOMENT CAPACITY OF MEMBER WITH fb = 0.66 FY.
   C. MAINTAIN TENSION CAPACITY OF COLUMNS, DIAGONALS AND MEMBERS SUBJECT TO TENSION AT BOLT HOLES, NOTCHES, OR COPES.
   D. CONNECTION FORCE NOTATION:
      P [ ] = AXIAL FORCE IN KIPS: [+] TENSION, [-] COMPRESSION
      V OR ( ) = SHEAR IN KIPS
      M = MOMENT IN FOOT KIPS
      T = TORSION IN FOOT KIPS
5. THE MINIMUM PLATE THICKNESS SHALL BE 3/8.
6. BOLTED CONNECTIONS:
   A. MINIMUM BOLT DIAMETER = 3/4"
   B. SLIP CRITICAL CONNECTIONS OF A325SC OR A490SC BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF BRACING MEMBERS, MOMENT CONNECTIONS, CANTILEVERS, AND AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR FRICTION CONNECTIONS.
   C. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.
   D. A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.
   E. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.
   F. THE FABRICATOR IS RESPONSIBLE FOR VERIFYING THE TENSION CAPACITY OF AXIALLY LOADED MEMBERS AFTER A SECTION IS REDUCED FOR BOLT HEADS. MEMBER SIZE MAY BE INCREASED OR CONNECTION PLATES ADDED AS REQUIRED.
   G. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.
7. WELDED CONNECTIONS:
   A. WELDS ARE CONTINUOUS UNLESS NOTED.
   B. ALL FILLET WELDS: A.I.S.C. MINIMUM BUT NOT LESS THAN 1/8" UNLESS NOTED OTHERWISE.
   C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE" (A.W.S. D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 4.1.1 OF (A.W.S. D1.1).
   D. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED OTHERWISE.
8. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
9. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE OF HOLES, SLOTS, CUTS, ETC., AND ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
10. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE HAS BEEN PROPERLY ALIGNED AND WILL THEREBY BE STIFFENED.
11. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY WITH A GOVERNMENT-TYPE ANCHOR.
12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.
13. SHEAR STUDS: CONFORM TO A.W.S. D1.1, SHOP WELD EXCEPT WHERE APPLIED THROUGH METAL DECK.
14. MATERIALS AND JOINTS FOR MOMENT CONNECTIONS AND CONNECTIONS FOR VERTICALLY BRACED ELEMENTS SHALL CONFORM TO THE FOLLOWING:
    A. MATERIALS SHALL CONFORM TO SEISMIC PROVISIONS, SECTION 6 AND SUPPLEMENT NO. 1.
    B. STEEL PLATES AND SHAPES SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS CONFORMING TO SEISMIC PROVISIONS SECTION 6.3, AND SUPPLEMENT NO. 1.
    C. BOLTED AND WELDED JOINTS TO CONFORM TO SEISMIC PROVISION SECTIONS 7, AND SUPPLEMENT NO. 1.

STEEL JOIST

1. STEEL JOISTS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH "S.J.I." SPECIFICATIONS.
2. BRIDGING SHALL BE SPACED IN ACCORDANCE WITH S.J.I. SPECIFICATIONS AND THE ERECTION RAWINGS OF THE JOIST SUPPLIER.
3. UNLESS NOTED OTHERWISE, BRIDGING SHALL BE SPACED IN ACCORDANCE WITH S.J.I. PECIFICATIONS.
4. STEEL JOIST BRIDGING SHALL BE PLACED AND JOIST ENDS FIXED PRIOR TO THE APPLICATION OF ANY LOADS.
5. MINIMUM BEARING LENGTH REQUIREMENTS, UNLESS NOTED OTHERWISE
   K SERIES: 2 1/2" ON STRUCTURAL STEEL, 4" CONCRETE, 4" ON MASONRY
   LH & DLH SERIES: 4" ON STRUCTURAL STEEL, 6" CONCRETE", 6" ON MASONRY
6. JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK AS NOTED ON THE DRAWINGS.
7. JOISTS, AT COLUMN CENTERLINES, SHALL BE BOLTED TO STRUCTURAL STEEL BEAMS, WITH (2) BOLTS.
8. SEE DETAILS FOR ATTACHMENT OF JOISTS TO CONCRETE AND MASONRY.
9. BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, SHALL BE TTACHED THERE TO BY FIELD WELDING OR BOLTING.
10. JOIST SHALL BE STOCKPILED AT THE JOBSITE IN A VERTICAL POSITION, RESTING ON THEIR TOP OR BOTTOM CHORDS, AND SHALL BE ADEQUATELY SUPPORTED WITH WOOD BLOCKING. KEEP JOIST FREE F MUD AND DIRT.
11. IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO SEE THAT JOISTS WHICH ARE DAMAGED, KINKED, BENT, R WITH BROKEN WELDS, ARE NOT PLACED IN THE STRUCTURE.
12. JOIST SUPPLIER SHALL DESIGN JOISTS AND SUBMIT CALCULATIONS, AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS. CALCULATIONS ARE TO BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF IOWA.
13. JOIST ENDS, AT ROOF DIAPHRAGM BOUNDARIES, SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR TO THE SUPPORTING STRUCTURE. JOIST MANUFACTURER TO DESIGN JOISTS FOR A ROLLOVER FORCE OF 1.5K UNLESS A HIGHER FORCE IS NOTED ON THE DRAWINGS.
14. THE JOIST DESIGN AND BRIDGING PLACEMENT SHALL BE CHECKED BY THE JOIST MANUFACTURER USING NET UPLIFTS. THE SUPPLIER IS RESPONSIBLE FOR CALCULATION NET UPLIFTS BASED ON THE INFORMATION GIVEN IN THE DESIGN CRITERIA. CHANGES IN JOIST SIZE AND/OR BRIDGING PLACEMENT WILL SHOW UP ON THE SHOP DRAWINGS.
15. LOCATE PIPE AND EQUIPMENT HANGERS AND OTHER CONCENTRATED LOADS ONLY WHERE LOADS ARE SHOWN ON JOIST SHOP DRAWINGS. ATTACHMENT METHOD AS APPROVED BY JOIST MANUFACTURER.
16. ROOF JOIST AND JOIST GIRDER WELDS TO SUPPORTING STEEL WORK TO CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE ON THE DWGS. JOIST SHOP DRAWINGS TO SHOW WELD SIZES AND LENGTHS ON THE DRAWINGS.
    A. K SERIES JOISTS: TWO 1/8" FILLET WELDS x 1 1/2" LONG TYPICAL
    B. LH SERIES JOISTS: TWO 3/16" FILLET WELDS x 2" LONG (TYPICAL)
    C. JOIST GIRDERS: TWO 3/8" FILLET WELDS x 5 1/2" LONG

    (NOTE JOIST GIRDER SEAT ANGLES SHALL BE AT LEAST 3/4" THICK) TO ALLOW FOR WELDS, JOIST BEARING SEATS SHALL HAVE A MINIMUM THICKNESS OF 1/4 INCH.

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
2. ANCHORS INSTALLED IN CONCRETE BASE MATERIAL SHALL HAVE CURRENT ICC APPROVAL FOR BOTH CRACKED AND UNCRACKED CONCRETE IN ACCORDANCE WITH ACI 355.2, ICC ES AC193 AND ICC ES AC308.
3. THREADED ANCHOR RODS ADHESIVE ANCHORS SHALL BE ASTM A36 OR ASTM F1554 GRADE 36. ADHESIVE USED SHALL BE A STRUCTURAL GRADE, TWO-PART EPOXY THAT MEETS THE REQUIREMENTS OF ASTM C-881 TYPES I AND IV, GRADE 3, CLASSES A,B OR C.
4. ADHESIVE ANCHORS SHALL NOT BE USED IN OVERHEAD APPLICATIONS. OVERHEAD CONDITIONS ARE SUBJECT TO SUSTAINED DEAD LOADS RESULTING FROM ADHESIVE CREEP. EXPANSION, SCREW, WEDGE OR OTHER MECHANICAL TYPE ANCHORS SHALL BE USED IN THIS TYPE OF APPLICATION.
5. AVOID CONFLICTS WITH EXISTING REBAR WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM END/EDGE AND/OR SPACING REQUIREMENTS.
6. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE REQUIREMENTS PROVIDED BY THE ADHESIVE MANUFACTURER. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IF TEMPERATURES ARE NOT WITHIN THE PROPER RANGE.
7. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEERING IN THE STATE OF IOWA SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE IBC BUILDING CODE. PRODUCT ICC-ES CODE REPORTS SHALL BE INCLUDED WITH THE SUBMITTAL PACKAGE.

THE FOLLOWING ANCHOR PRODUCTS ARE PRE-APPROVED FOR ADHESIVE ANCHORS.

BASE MATERIAL	ADHESIVE ANCHOR PRODUCT	ICC ES REPORT
CONCRETE	HILTI HIT RE-500-V3	ESR-3814
CONCRETE	HILTI HIT HY-200	ESR-3187
MASONRY	HILTI HIT HY-270	ESR-4143/4144

THE FOLLOWING ANCHOR PRODUCTS ARE PRE-APPROVED FOR EXPANSION ANCHORS.

BASE MATERIAL	EXPANSION ANCHOR PRODUCT	ICC ES REPORT
CONCRETE	SIMPSON STRONG-BOLT	ESR-1771
CONCRETE	HILTI KWIK BOLT TZ	ESR-1971

THE FOLLOWING ANCHOR PRODUCTS ARE PRE-APPROVED FOR SCREW ANCHORS.

BASE MATERIAL	EXPANSION ANCHOR PRODUCT	ICC ES REPORT
CONCRETE	SIMPSON TITEN-HD	ESR-2713
MASONRY	HILTI KWIK HUS-EZ	ESR-3056

DEFERRED SUBMITTALS

1. PER IBC SECTION 106.3.4.2 THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS ITEMS:
   STRUCTURAL STEEL CONNECTIONS
   STEEL STAIRS
   COLD-FORMED METAL INFILL FRAMING
   STEEL JOISTS
   COMPOSITE STEEL JOISTS
2. DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL IS RECEIVED.

MISCELLANEOUS

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
4. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
10. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
11. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE EFFECTED WORK PROCEEDS.
12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT.
14. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHTS EXCEEDS WEIGHTS INDICATED ON STRUCTURAL DRAWINGS.
15. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.
16. EPOXY / ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE REQUIREMENTS PROVIDED BY THE EPOXY / ADHESIVE MANUFACTURER. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER IF TEMPERATURES ARE NOT WITHIN THE PROPER RANGE.
17. VERIFY ELEVATOR PIT DIMENSIONS, LOCATIONS, LOADINGS AND DETAILS WITH SUPPLIERS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.

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SHEET TITLE
GENERAL NOTES

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023
REV. NO. DATE

PROJECT NUMBER
202213.02

SHEET
S0.1

SPECIAL INSPECTIONS

1. THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTIONS PER IBC 2015. OWNER TO FURNISH INSPECTION UNLESS INSTRUCTED OTHERWISE BY THE CONSTRUCTION CONTRACT.

   A. SPECIAL INSPECTION IN NOT A SUBSTITUTE FOR INSPECTION BY A CITY/COUNTY INSPECTOR SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY/COUNTY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

   B. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY/COUNTY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.

   C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANYWORK THAT REQUIRES SPECIAL INSPECTION. A WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

   D. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.

TABLE 1705.2.3
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD*
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
a. END CONNECTIONS - WELDING OR BOLTED	----	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
b. BRIDGING - HORIZONTAL OR DIAGONAL.	----		
1. STANDARD BRIDGING	----	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X	

TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	----	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	----	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	----	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	----
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	----	X

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	X	APPLICABLE ASTM MATERIAL SPECIFICATION AND AISC 360, SECTION A3.3	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	----	X	----	----
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. SNUG-TIGHT JOINTS.	----	X	AISC 360, SECTION M2.5	1704.3.3
b. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	----	X		
b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	----		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	----	X	AISC 360, SECTION M5.5	
b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	X	APPLICABLE ASTM MATERIAL STANDARDS	----
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	----	X		----
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	X	AISC 360 SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	----	X	----	
5. INSPECTION OF WELDING:				
a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	----	AWS D1.1	1704.3.1
2) MULTIPASS FILLET WELDS.	X	----		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	----		
4) PLUG AND SLOT WELDS.	X	----		
5) SINGLE-PASS FILLET WELDS ≤ 5/16"	----	X		
6) FLOOR AND DECK WELDS.	----	X	AWS D1.3	
b. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	----	X	AWS D1.4 ACI 318: SECTION 3.5.2	----
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCING	X	----		
3) SHEAR REINFORCEMENT.	X	----		
4) OTHER REINFORCING STEEL.	----	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
a. DETAILS SUCH AS BRACING AND STIFFENING.	----	X	----	1704.3.2
b. MEMBER LOCATIONS.	----	X		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	----	X		

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	----	X	ACI 318: Ch. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS	---- X	X X	AWS D1.4 ACI 318: 26.5.4	----
3. INSPECT ANCHORS CAST IN CONCRETE	----	X	ACI 318: 17.8.2	----
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE MEMBERS. A A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	----
5. VERIFYING USE OF REQUIRED DESIGN MIX.	----	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	----	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICAITON TECHNIQUES	X	----	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	----	X	ACI 318: 26.4.7-26.4.9	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSED FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	 X X	 ---- ----	 ACI 318: 26.9.2.1 ACI 318: 26.9.2.3	----
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	----	X	ACI 318: Ch. 26.8	----
11. VERIFY IN-SITU CONCRETE STRENTH, PRIOR TO STRESSING OF TENONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	----	X	ACI 318: 26.10.2	----
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	----	X	ACI 318: 26.10.1(b)	----

A. TESTING OF POST-INSTALLED ANCHORS MUST ALSO COMPLY WITH THE ANCHOR MANUFACTURER'S RECOMMENDED TESTING AND VERIFICATION AS WELL AS THE TESTING AND VERIFICATION INDICATED IN THAT PRODUCT'S ICC-ES REPORT.

COLD FORMED STEEL DECK TABLE
REFERENCE SDI QA/QC-2011, APPENDIX 1

INSPECTION OR EXECUTION SEQUENCE	TASK	QCI	QAI
SECTION I. PRIOR TO DECK PLACEMENT	A - VERIFY COMPLIANCE OF MATERIALS (DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	P	P
	B - DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	P	P
SECTION II. AFTER DECK PLACEMENT	A - VERIFY COMPLIANCE OD DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	P	P
	B - VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	N/A	P
	C - DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	P	P
SECTION III. PRIOR TO WELDING	A - WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	O	O
	B - MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	O	O
	C - MATERIAL IDENTIFICATION (TYPE / GRADE)	O	O
	D - CHECK WELDING EQUIPMENT	O	O
SECTION IV. DURING WELDING	A - USE OF QUALIFIED WELDERS	O	O
	B - CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O
	C - ENVIRONMENTAL CONDITIONS: WIND SPEED, MOISTURE, TEMPERATURE	O	O
	D - WPS FOLLOWED	O	O
SECTION V. AFTER WELDING	A - VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE LAP, AND PERIMETER WELDS	P	P
	B - WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P
	C - VERIFY REPAIR ACTIVITIES	P	P
	D - DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	P	P
SECTION VI. PRIOR TO MECHANICAL FASTENING	A - MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	O	O
	B - PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	O	O
	C - PROPER STORAGE FOR MECHANICAL FASTENERS	O	O
SECTION VII. DURING MECHANICAL FASTENING	A - FASTENERS ARE POSITIONED AS REQUIRED	O	O
	B - FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	O	O
SECTION I. AFTER MECHANICAL FASTENING	A - CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	P	P
	B - CHECK SPACING, TYPE, AND INSTALLATION OF SIDE LAP FASTENERS	P	P
	C - CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	P	P
	D - DOCUMENT ACCEPTANCE OR REJECTIONS OF MECHANICAL FASTENERS	P	P

WHERE:

P - INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATION NEED NOT BE DELAYED PENDING THESE INSPECTIONS
O - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT
QCI - QUALITY CONTROL INSPECTOR (INSTALLER)
QAI - QUALITY ASSURANCE INSPECTOR (SPECIAL INSPECTOR)

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTON TASKS PRIOR TO WELDING	QC	QA
WELDING PROCEDURE SPECIFICATIONS (WPS_s) AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATIONS (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM [1]	O	O
FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOTFACES, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O
CHECK WELDING EQUIPMENT	O	----
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O

[1] THE FABRICATOR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINTOF A MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE

P: PERFORM - THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER
O: OBSERVE - THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTON TASKS DURING WELDING	QC	QA
USE OF QUALIFIED WELDERS	O	O
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F. V. H. OH)	O	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O

P: PERFORM - THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER
O: OBSERVE - THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTON TASKS AFTER WELDING	QC	QA
WELDS CLEANED	P	P
SIZE LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	O	O
ARC STRIKES	O	O
K-AREA [1]	O	O
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	O	O
REPAIR ACTIVITIES	O	O
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	O	O

[1] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 in. (75 mm) OF THE WELD.

P: PERFORM - THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER
O: OBSERVE - THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS

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IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
SPECIAL INSPECTIONS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

REV. NO. DATE

PROJECT NUMBER
202213.02

SHEET
S0.2

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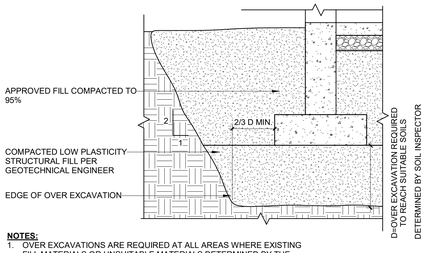
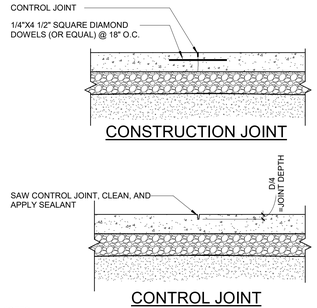


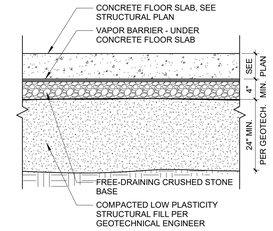
NOTES:
1. OVER EXCAVATIONS ARE REQUIRED AT ALL AREAS WHERE EXISTING FILL MATERIALS OR UNSUITABLE MATERIALS DETERMINED BY THE SOILS INSPECTOR ARE PRESENT.
2. FOOTINGS COULD ALSO BARE DIRECTLY ON THE SUITABLE NATIVE SOIL OR ON LEAN CONCRETE BACKFILL IN THE EXCAVATION INSTEAD OF ON PROPERLY COMPACTED STRUCTURAL FILL PLACE IN THE EXCAVATION.

1 TYPICAL OVEREXCAVATION DETAIL
SCALE: 1/2" = 1'-0"



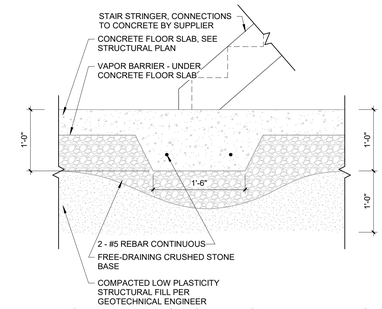
NOTES:
1. CONSTRUCTION AND/OR CONTROL JOINTS ARE INTERCHANGEABLE AT THE CONTRACTORS OPTION. SEE PLANS FOR JOINT LOCATIONS.
2. SAW CUTTING OF JOINTS SHALL BE DONE AS THE CONCRETE SETS SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIP, SPALLING OR TEARING, BUT NOT MORE THAN 24 HR. AFTER PLACING.
3. ACI RECOMMENDATION: PLACE SLABS IN LONG RECTANGULAR STRIPS IN ALTERNATE PANELS. WIDTH OF STRIPS TO BE APPROX. 10'-0"

2 TYPICAL SLAB-ON-GRADE CONTROL AND CONSTRUCTION JOINTS DETAIL
SCALE: 3/4" = 1'-0"

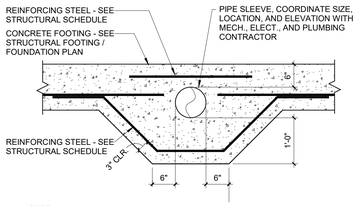


NOTE: FREE-DRAINING STONE BASE MAY BE CONSIDERED PART OF THE 24" LOW PLASTICITY MATERIAL ZONE PER GEOTECHNICAL

3 TYPICAL SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"

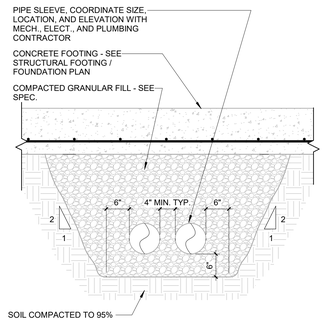


4 TYPICAL DETAIL OF STEEL STAIR BEARING ON SLAB-ON-GRADE
SCALE: 1" = 1'-0"

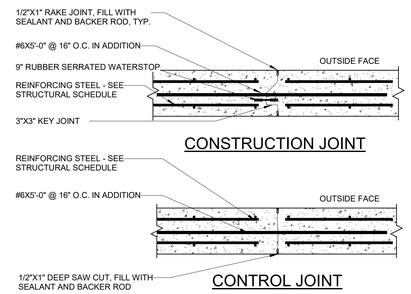


NOTES:
1. DIA. OF SLEEVE TO BE 2" LARGER THEN PIPE PASSING THROUGH.
2. MAXIMUM PIPE SLEEVE DIAMETER TO BE 12" OR LESS TO USE THIS DETAIL.
3. WHERE PIPE SLEEVE OPENING IS GREATER THAN 12" THE CONTRACTOR IS TO STEP THE FOOTING PER "TYPICAL STEP FOOTING DETAIL" SO PIPE SLEEVE PASSES THROUGH FOUNDATION WALL. CONTRACTOR TO REINFORCE OPENING IN THE WALL PER "TYP. DETAIL AT OPENING IN WALL"

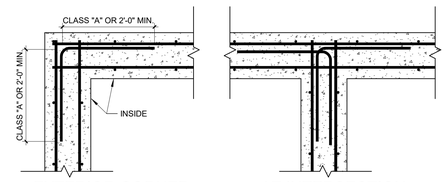
5 TYPICAL PIPE SLEEVE THROUGH CONTINUOUS FOOTING
SCALE: 3/4" = 1'-0"



6 TYPICAL PIPE SLEEVE UNDER CONTINUOUS FOOTING
SCALE: 3/4" = 1'-0"

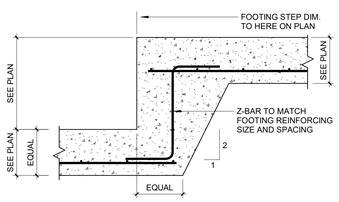


7 TYPICAL DETAIL OF VERTICAL CONSTRUCTION AND CONTROL JOINT IN CONCRETE WALLS
SCALE: 3/4" = 1'-0"

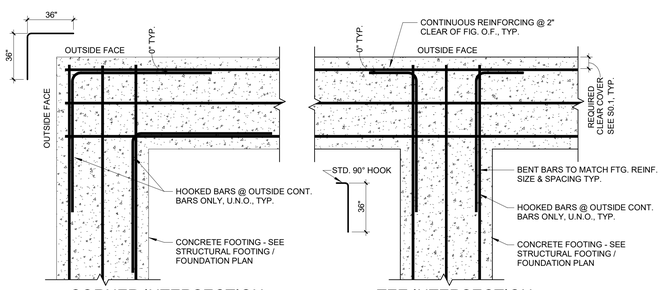


NOTE:
1. SIZE AND SPACING OF CORNER/INTERSECTING BARS SAME AS HORIZONTAL BARS.
2. IF A CONSTRUCTION OR CONTROL JOINT OCCURS AT CORNER OR INTERSECTION, RAKE A 1/2"X1" JOINT AND FILL WITH SEALANT AND BACKER ROD, TYP.

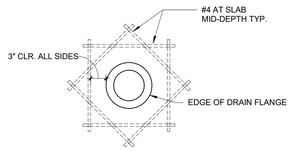
8 TYPICAL CORNER BAR DETAIL
SCALE: 3/4" = 1'-0"



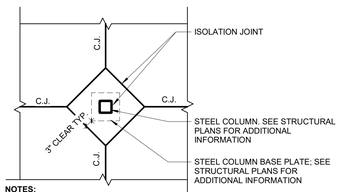
9 TYPICAL STEP FOOTING DETAIL
SCALE: 3/4" = 1'-0"



10 TYPICAL FOOTING INTERSECTION REINFORCEMENT
SCALE: 3/4" = 1'-0"

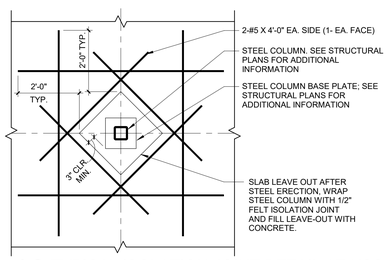


11 TYPICAL REINFORING AT FLOOR DRAIN
SCALE: 1" = 1'-0"

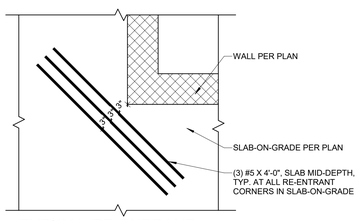


NOTES:
1. DETAIL SIMILAR AT W SHAPE COLUMNS
2. SEE SPECIFICATION FOR ISOLATION JOINT FILLER AND SEALANT DETAILS

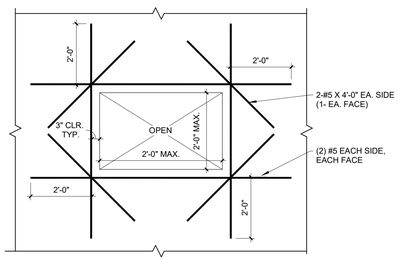
12 TYPICAL ISOLATION JOINT DETAIL
SCALE: 1/2" = 1'-0"



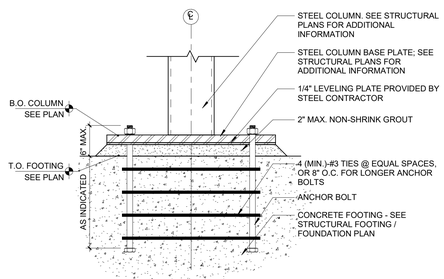
13 TYPICAL ISOLATION JOINT DETAIL AT HSS
SCALE: 1/2" = 1'-0"



TYPICAL RE-ENTRANT CORNER SLAB
14 REINFORCEMENT DETAIL
SCALE: 3/4" = 1'-0"



15 TYPICAL DETAIL AT OPENINGS IN SLAB OR WALLS
SCALE: 1/2" = 1'-0"



16 TYPICAL BASE PLATE ANCHORAGE DETAIL
SCALE: 1 1/2" = 1'-0"

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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES

SHEET TITLE: TYPICAL FOUNDATION DETAILS

PROJECT TITLE: CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

REV. NO. DATE

PROJECT NUMBER 202213.02

SHEET S0.3

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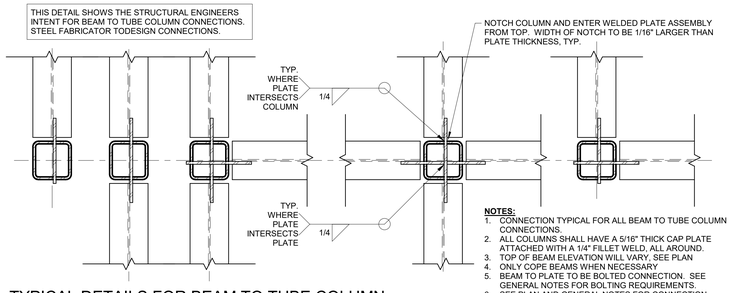
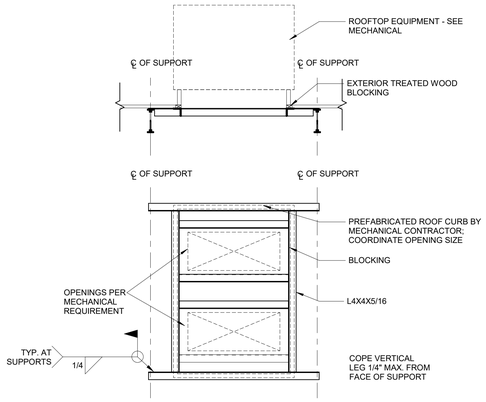
2/3/2023 11:56:18 AM

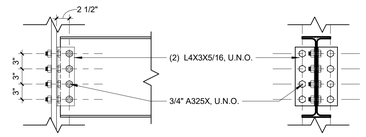


NOTES:
1. CONNECTION TYPICAL FOR ALL BEAM TO TUBE COLUMN CONNECTIONS.
2. ALL COLUMNS SHALL HAVE A 5/16" THICK CAP PLATE ATTACHED WITH A 1/4" FILLET WELD, ALL AROUND.
3. TOP OF BEAM ELEVATION WILL VARY. SEE PLAN
4. ONLY COPE BEAMS WHEN NECESSARY.
5. BEAM TO PLATE TO BE BOLTED CONNECTION. SEE GENERAL NOTES FOR BOLTING REQUIREMENTS.
6. SEE PLAN AND GENERAL NOTES FOR CONNECTION REACTIONS.

1 TYPICAL DETAILS FOR BEAM TO TUBE COLUMN CONNECTIONS
SCALE: 1 1/2" = 1'-0"



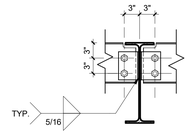
2 RTU SUPPORT
SCALE: 3/8" = 1'-0"



DOUBLE ANGLE CONNECTION			
NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS	LENGTH OF ANGLE	REMARKS
W36	7	1'-8 1/2"	SEE SECTION B-B FOR BACK TO BACK BEAM CONN. USE 1" DIA. A325X, USE (2) L5X5X3/8
W30-W33	7	1'-8 1/2"	SEE SECTION B-B FOR BACK TO BACK BEAM CONN.
W24-W27	5	1'-2 1/2"	SEE SECTION B-B FOR BACK TO BACK BEAM CONN.
W16-W21	4	11 1/2"	SEE SECTION B-B FOR BACK TO BACK BEAM CONN.
W14	3	8 1/2"	SEE SECTION B-B FOR BACK TO BACK BEAM CONN.
W12	2	5 1/2"	SEE SECTION B-B FOR BACK TO BACK BEAM CONN.
W8-W10	----	----	SEE SECTION A-A

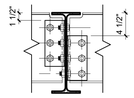
NOTES:
1. NUMBER OF ROWS IS EQUAL TO NUMBER OF BOLTS TO ENCLOSED WEB.
2. ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OTHERWISE ON FRAMING PLANS
3. FOR MIS-ALIGNED BOLT HOLES, PROVIDE FIELD WELDS. NOTIFY A/E OF LOCATIONS USING FIELD WELDED CONNECTION.
4. THIS TABLE DEPICTS MINIMUM CONNECTION REQUIREMENTS.

3 TYPICAL FRAMING CONNECTION
SCALE: 1" = 1'-0"



NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS	LENGTH OF PLATE	REMARKS
8-10	2	6"	

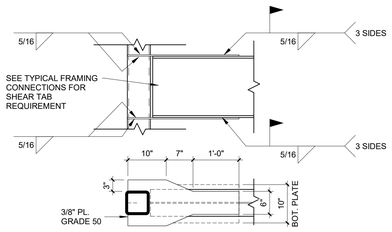
SINGLE-SHEAR PLATE CONNECTION, SECTION A-A
(BEAMS 10" AND LESS)



DOUBLE ANGLE CONNECTION @ BACK TO BACK BEAMS
(BEAMS 12" AND GREATER)

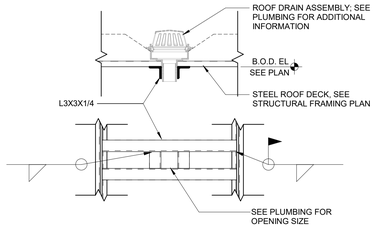
S0.5 - LOOSE LINTEL SCHEDULE			
LOOSE LINTEL MARK.	LOOSE LINTEL SIZE	WALL SUPPORTED	OPENING SIZE.
LL1	L3-1/2X3-1/2X3/8	4" BRICK	3'-4" TO 6'-4"
LL2	L5X3-1/2X3/8	4" BRICK	9'-0"

LOOSE LINTEL SCHEDULE NOTES:
1. PROVIDE MINIMUM 8" BEARING ON BRICK
2. ALL EXTERIOR LINTELS TO BE GALVANIZED

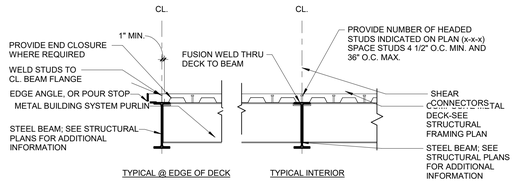


NOTE:
CONNECTION MAY BE IMPLEMENTED ON MORE THAN ONE SIDE OF THE COLUMN

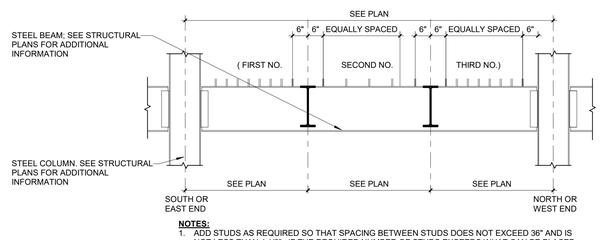
4 MOMENT CONNECTION AT TUBE COLUMN
SCALE: 3/4" = 1'-0"



5 ROOF DRAIN FRAMING
SCALE: 3/4" = 1'-0"

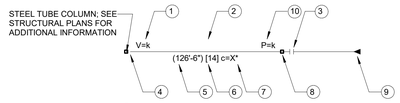


TYPICAL COMPOSITE BEAM DETAIL



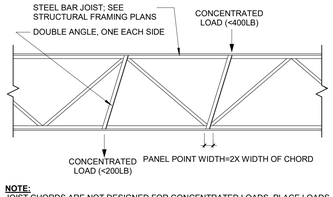
NOTES:
1. ADD STUDS AS REQUIRED SO THAT SPACING BETWEEN STUDS DOES NOT EXCEED 36" AND IS NOT LESS THAN 4 1/2". IF THE REQUIRED NUMBER OF STUDS EXCEEDS WHAT CAN BE PLACED AT 4 1/2", PLACE A SECOND ROW OF STUDS SPACED AT 4 1/2" STARTING AT THE ENDS OF THE BEAM UNTIL THE REQUIRED NUMBER OF STUDS IS REACHED. WHEN TWO ROWS OF STUDS ARE REQUIRED, PLACE EACH STUD 1 1/2" FROM THE BEAM CENTER LINE.
2. FOR PURLINS - ONLY ONE NUMBER IN PARENTHESIS INDICATES TOTAL NIMBER OF STUDS TO BE EVENLY SPACED ALONG THE FULL LENGTH OF THE BEAM.

6 TYPICAL SHEAR CONNECTOR SPACING DETAILS FOR GIRDER
SCALE: 1/2" = 1'-0"



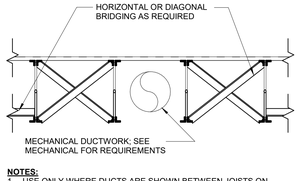
1. INDICATES VERTICAL REACTIONS FOR CONNECTION DESIGN.
2. INDICATES BEAM SIZE.
3. INDICATES TYPICAL BEAM SHEAR PLATE SPLICE.
4. INDICATES BEAM FRAMING INTO FACE OF COLUMN.
5. INDICATES TOP OF STEEL ELEVATION FOR NON-TYPICAL BEAMS. TYPICAL FLOOR BEAM ELEVATIONS IS TO BE NOTED IN THE FLOOR FRAMING NOTES ON EACH SHEET OR ALONG GRID LINES.
6. INDICATES NUMBER OF SHEAR STUDS REQUIRED.
7. INDICATES REQUIRED UPWARD CAMBER IN BEAM (INCHES).
8. INDICATES BEAM CONTINUOUS OVER SUPPORT.
9. INDICATES MOMENT CONNECTION.
10. INDICATES AXIAL LOAD IN BEAM FOR CONNECTION DESIGN.

TYPICAL LEGEND FOR BEAM FRAMING



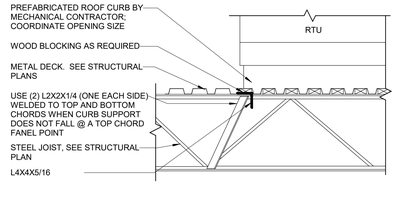
NOTE:
JOIST CHORDS ARE NOT DESIGNED FOR CONCENTRATED LOADS. PLACE LOADS AT PANEL POINTS OR WELD ADDITIONAL DOUBLEANGLE MEMBERS, ONE EACH SIDE, FROM POINT OF CONCENTRATED LOAD TO NEAREST PANEL POINT ON OPPOSITE CHORD OF THE JOIST. PROVIDE L1X1X1/8. WELD IN PLACE.

7 TYPICAL WEB MEMBER AT BAR JOIST CONCENTRATED LOAD DETAIL
SCALE: 3/4" = 1'-0"

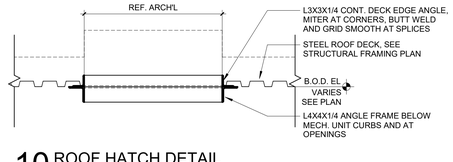


NOTES:
1. USE ONLY WHERE DUCTS ARE SHOWN BETWEEN JOISTS ON MECHANICAL DRAWINGS. VERIFY LOCATION WITH CONTRACTOR.
2. DO NOT INSTALL DUCTS IN TWO ADJACENT JOIST SPACES.

8 TYPICAL BRIDGING INTERRUPTION DETAIL
SCALE: 3/4" = 1'-0"



9 TYPICAL DETAIL AT ROOF TOP UNITS
SCALE: 3/4" = 1'-0"



10 ROOF HATCH DETAIL
SCALE: 3/4" = 1'-0"

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SHEET TITLE
TYPICAL STEEL DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

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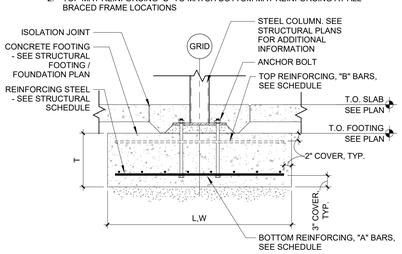
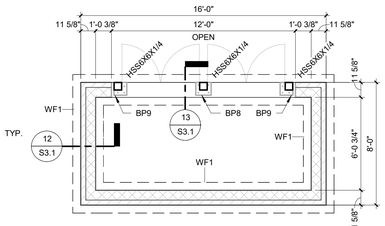
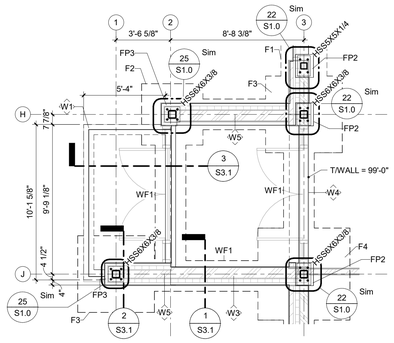
NOTES:
1. CENTER FOOTING ON COLUMN GRIDS. TYPICAL UNLESS NOTED OTHERWISE.
2. TOP MAT REINFORCING "B" TO MATCH BOTTOM MAT REINFORCING AT ALL BRACED FRAME LOCATIONS



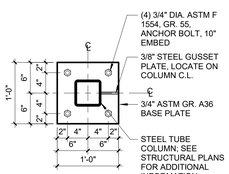
2 TYPICAL CONCRETE SPREAD FOOTING DETAIL
SCALE: 3/4" = 1'-0"



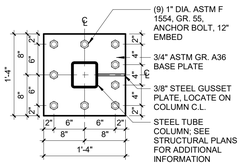
3 TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"



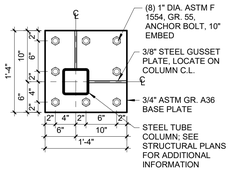
4 ENTRANCE FOUNDATION
SCALE: 1/4" = 1'-0"



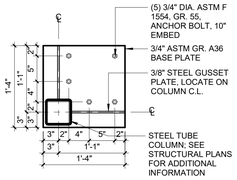
5 BASEPLATE DETAIL - BP1
SCALE: 1" = 1'-0"



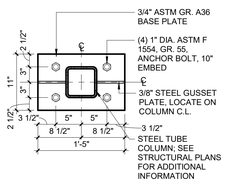
6 BASEPLATE DETAIL - BP2
SCALE: 1" = 1'-0"



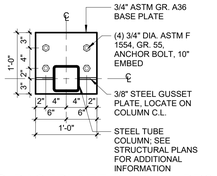
7 BASEPLATE DETAIL - BP3
SCALE: 1" = 1'-0"



8 BASEPLATE DETAIL - BP4
SCALE: 1" = 1'-0"



9 BASEPLATE DETAIL - BP5
SCALE: 1" = 1'-0"



10 BASEPLATE DETAIL - BP6
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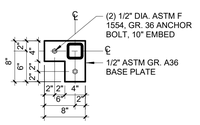
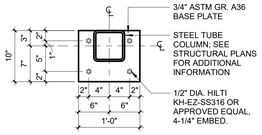
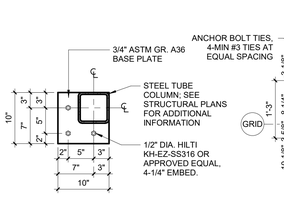


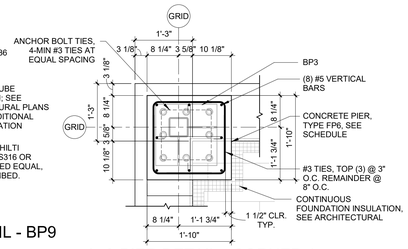
11 BASEPLATE DETAIL - BP7
SCALE: 1" = 1'-0"



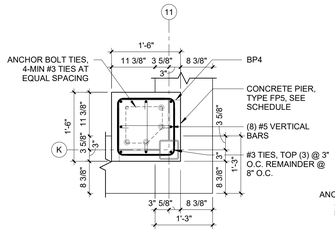
12 BASEPLATE DETAIL - BP8
SCALE: 1" = 1'-0"



13 BASEPLATE DETAIL - BP9
SCALE: 1" = 1'-0"



14 PIER DETAIL - CORNER 1
SCALE: 3/4" = 1'-0"



15 PIER DETAIL - CORNER 2
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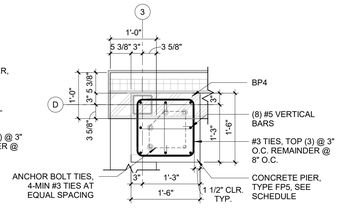

16 PIER DETAIL - CORNER 3
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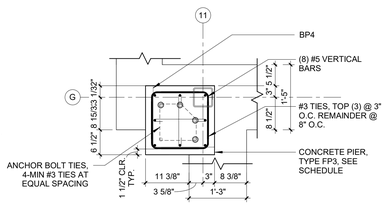

17 PIER DETAIL - CORNER 4
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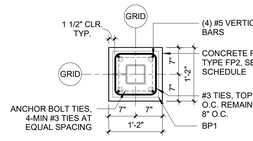

18 PIER DETAIL - INTERIOR
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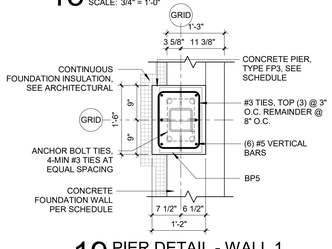
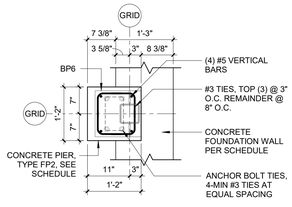


19 PIER DETAIL - WALL 1
SCALE: 3/4" = 1'-0"



20 PIER DETAIL - WALL 2
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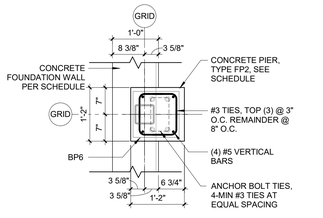

21 PIER DETAIL - WALL 3
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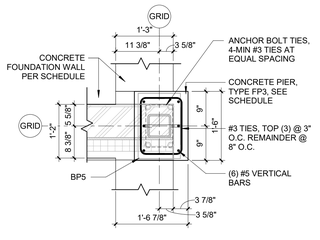
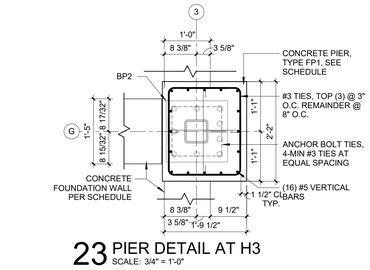


22 PIER DETAIL - WALL 4
SCALE: 3/4" = 1'-0"



23 PIER DETAIL AT H3
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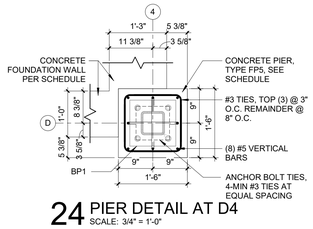
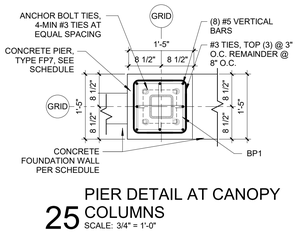
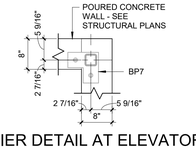


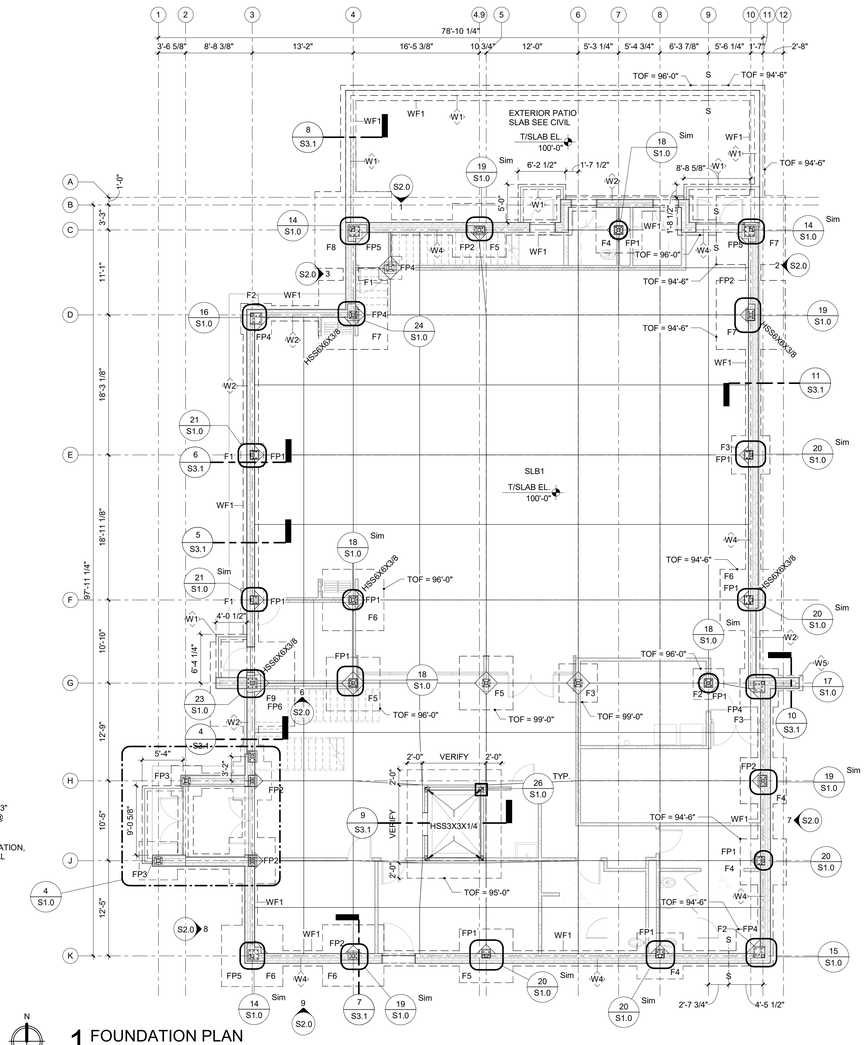
24 PIER DETAIL AT D4
SCALE: 3/4" = 1'-0"



PIER DETAIL AT CANOPY COLUMNS
25 SCALE: 3/4" = 1'-0"



PIER DETAIL AT ELEVATOR COLUMNS
26 SCALE: 3/4" = 1'-0"



1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

GENERAL:

1. FOR GENERAL NOTES, SPECIAL INSPECTIONS, AND TYPICAL DETAILS SEE SHEETS S0.1 AND S0.2.
2. SEE SHEET S0.3 FOR TYPICAL SLAB ON GRADE AND TYPICAL FOUNDATION DETAILS.
3. SEE THIS SHEET FOR WALL AND FOOTING SCHEDULE AND BASE PLATE SCHEDULES.
4. COORDINATE OPENINGS IN WALLS AND SLABS WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. SEE SHEET S0.3 FOR TYPICAL OPENING DETAILS.
5. NO FIELD CUTTING OF OPENINGS ALLOWED.
6. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING ADDITIONAL DIMENSIONS AND ELEVATIONS.

SLAB-ON-GRADE:

1. TOP OF SLAB ELEVATION AS NOTED. ARCHITECTURAL ELEVATION 100'-0" CORRESPONDS TO CIVIL ELEVATION **903.00'**. SEE CIVIL DRAWINGS.
2. SLAB-ON-GRADE SLB1 TO BE 4" THICK WITH 4LB/CY MACROFIBER REINFORCEMENT OVER 15 MIL VAPOR BARRIER OVER 4" MINIMUM OF FREE -DRAINING CRUSHED ROCK OR CLEAN 1" DIAMETER ROCK DEVIOD OF FINES. REF. 3/S0.3.
3. AT LEAST 24" OF LOW PLASTICITY MATERIALS SHOULD BE PROVIDED BELOW SLAB DRAINAGE COURSE PER GEOTECHNICAL.
4. CONTRACTOR TO COORDINATE SLOPING OF SLABS TO FLOOR DRAINS WITH ARCH. AND PLUMBING.
5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, DEPRESSED SLABS, STEPPED SLABS, STOOPS AND NON-BEARING PARTITION WALLS.
6. TYPICAL CONSTRUCTION/CONTROL JOINTS AT 12'-0" O.C., MAX., TYP. SEE CONSTRUCTION/CONTROL JOINT PLACEMENT PLAN ON SHEET S1.0 FOR JOINT LOCATIONS.

FOOTINGS/FOUNDATION WALLS:

1. ALL FOOTINGS TO BE CENTERED UNDER WALLS AND/OR COLUMNS, U.N.O.
2. FOOTING REINFORCEMENT CENTERED BELOW CONC. PIER WHERE FOOTING PLAN DIMENSION(S) EXCEED SCHEDULED VALUE, TYP.
3. PROVIDE (1) BOTTOM MAT #5@12" E.W. AT ALL UN-SCHEDULED SPREAD FOOTINGS, TYP. U.N.O.
4. CENTER SCHEDULED FOOTING(S) BELOW COLUMN (OR BEAM BRG.) TYP. AT COMBINED FOOTINGS.
5. TOP OF FOOTING ELEVATION TO BE 96'-0" U.N.O.
6. TOP OF TYPICAL NEW FOUNDATION WALLS TO BE 100'-0" U.N.O. STEP TOP OF WALL DOWN AT STOOP LOCATIONS, REF. 3/S3.1
7. TOP OF TYPICAL NEW FOUNDATION PIERS TO BE 99'-0" U.N.O.
8. COORDINATE TOP OF FOOTING ELEVATIONS WITH CROSSING MECHANICAL PLUMBING LINE INVERTS AND ELECTRICAL LINE LOCATIONS. WHENEVER POSSIBLE, STEP FOOTINGS DOWN ON EITHER SIDE OF LINE AND SLEEVE THROUGH FOUNDATION WALLS. COORDINATE BLOCKOUTS IN FOUNDATION WALL AS NEEDED. SEE DETAIL 5/S-0.3 WHEN PIPE FALLS WITHIN FOOTING AND DETAIL 6/S-0.3 WHEN PIPE FALLS BELOW FOOTING.
9. CONCRETE FOUNDATION WALLS TO BE REINFORCED AS SPECIFIED IN WALL SCHEDULE, PROVIDE CORNER BARS PER TYPICAL DETAILS AT CORNERS AND INTERSECTIONS.

S ------ S INDICATES FOOTING STEP LOCATION - REF. 10/S0.3 FOR TYPICAL STEP FOOTING DETAIL

STRUCTURAL STEEL COLUMNS

1. ALL STEEL COLUMNS TO BE HSS5X5X1/4 U.N.O.

FOUNDATION PIER SCHEDULE

MARK	SIZE ("A"X"B")	REINFORCEMENT	NOTES
FP1	14" X 14"	(4) #5 BARS @ CORNERS W/ #3 TIES @ 8" O.C.	PROVIDE (3) PIER TIES AT TOP OF PIER @ 3" O.C.
FP2	14" X 18"	(4) #5 BARS @ CORNER/ (1) #5 LONG FACE W/ #3 TIES @ 8" O.C.	PROVIDE (3) PIER TIES AT TOP OF PIER @ 3" O.C.
FP3	17" X 17"	(4) #5 BARS @ CORNER/ (1) #5 EACH FACE @ SIDE W/ #3 TIES @ 8" O.C.	PROVIDE (3) PIER TIES AT TOP OF PIER @ 3" O.C.
FP4	18" X 18"	(4) #5 BARS @ CORNER/ (1) #5 EACH FACE @ SIDE W/ #3 TIES @ 8" O.C.	PROVIDE (3) PIER TIES AT TOP OF PIER @ 3" O.C.
FP5	22" X 22"	(4) #5 BARS @ CORNER/ (1) #5 EACH FACE @ SIDE W/ #3 TIES @ 8" O.C.	PROVIDE (3) PIER TIES AT TOP OF PIER @ 3" O.C.
FP6	22" X 26"	(4) #5 BARS @ CORNER/ (2) #5 EACH FACE @ SIDE W/ #3 TIES @ 8" O.C.	PROVIDE (3) PIER TIES AT TOP OF PIER @ 3" O.C.

WALL SCHEDULE

MARK	WALL TYPE	THICKNESS	REINFORCING	NOTES
W1	8" CONCRETE	8"	#5 AT 12" O.C.E.W.	
W2	12" CONCRETE	12"	#5 AT 12" O.C.E.W. EACH FACE	
W3	14" CONCRETE	14"	#5 AT 12" O.C. EW. EF.	
W4	15" CONCRETE	15"	#5 AT 12" O.C.E.W. EACH FACE	
W5	17" CONCRETE	17"	#5 AT 12" O.C.E.W. EACH FACE	

CONCRETE SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	REMARKS
F1	3'-0"	3'-0"	12"	(3) #5 EACH WAY @ BOTTOM/ N/A @ TOP	
F2	4'-0"	4'-0"	12"	(4) #5 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY
F3	5'-0"	5'-0"	12"	(5) #5 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY
F4	6'-0"	6'-0"	12"	(6) #5 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY
F5	7'-0"	7'-0"	12"	(7) #5 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY
F6	8'-0"	8'-0"	12"	(8) #5 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY
F7	9'-0"	9'-0"	12"	(9) #5 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY
F8	10'-0"	10'-0"	12"	(10) #6 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY
F9	11'-0"	11'-0"	12"	(12) #6 EACH WAY @ BOTTOM/TOP	TOP REINF. AT BRACE FRAMES ONLY

CONCRETE WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING	DOWELS	REMARKS
WF1	2'-0"	12"	(2) #5 BARS LONG. / #5 @ 24" O.C. TRANS.	TYPE-1 @ 24"	

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IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
FOUNDATION PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023
REV. NO. DATE

PROJECT NUMBER
202213.02

SHEET
S1.0

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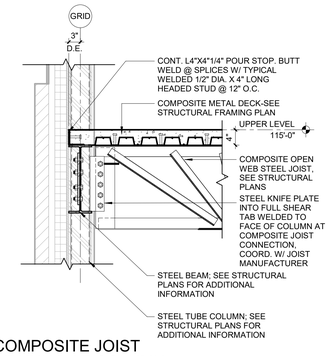
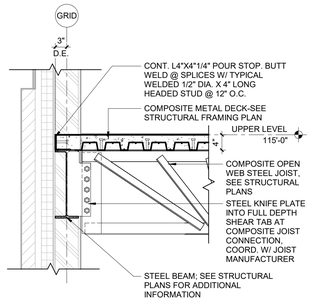
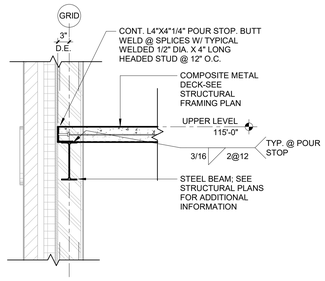


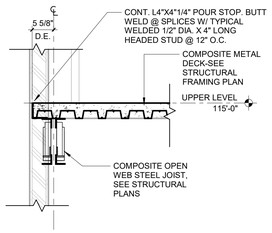
3 COMPOSITE JOIST BEARING AT COLUMN
SCALE: 3/4" = 1'-0"



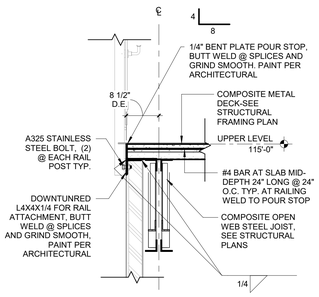
4 COMPOSITE JOIST BEAIRNG AT PERIMETER BEAM
SCALE: 3/4" = 1'-0"



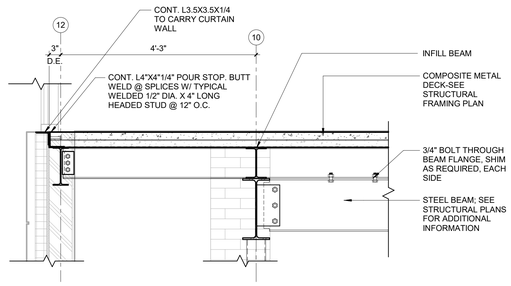
5 COMPOSITE DECK BEARING AT PERIMETER BEAM
SCALE: 3/4" = 1'-0"



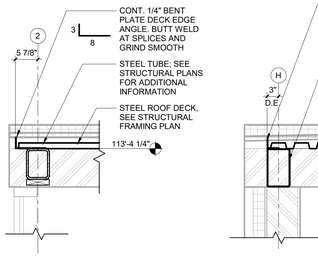
6 LOBBY OPENING EDGE - SOUTH
SCALE: 3/4" = 1'-0"



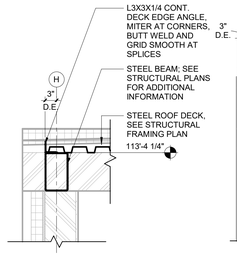
7 LOBBY OPENING EDGE - EAST
SCALE: 3/4" = 1'-0"



8 CANTILEVER INFILL BEAM
SCALE: 3/4" = 1'-0"



9 ENTRANCE DECK EDGE - WEST
SCALE: 3/4" = 1'-0"



10 ENTRANCE DECK EDGE - NORTH
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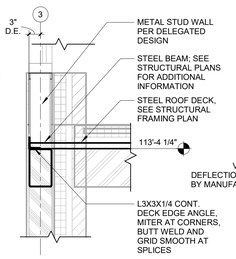

11 ENTRANCE DECK EDGE - EAST
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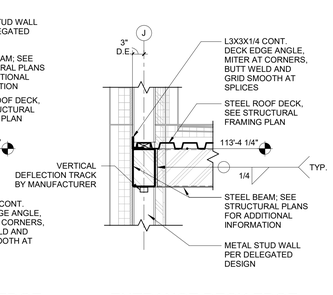

12 ENTRANCE DECK EDGE - SOUTH
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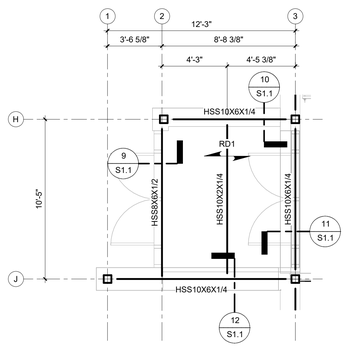

2 ENTRANCE FRAMING
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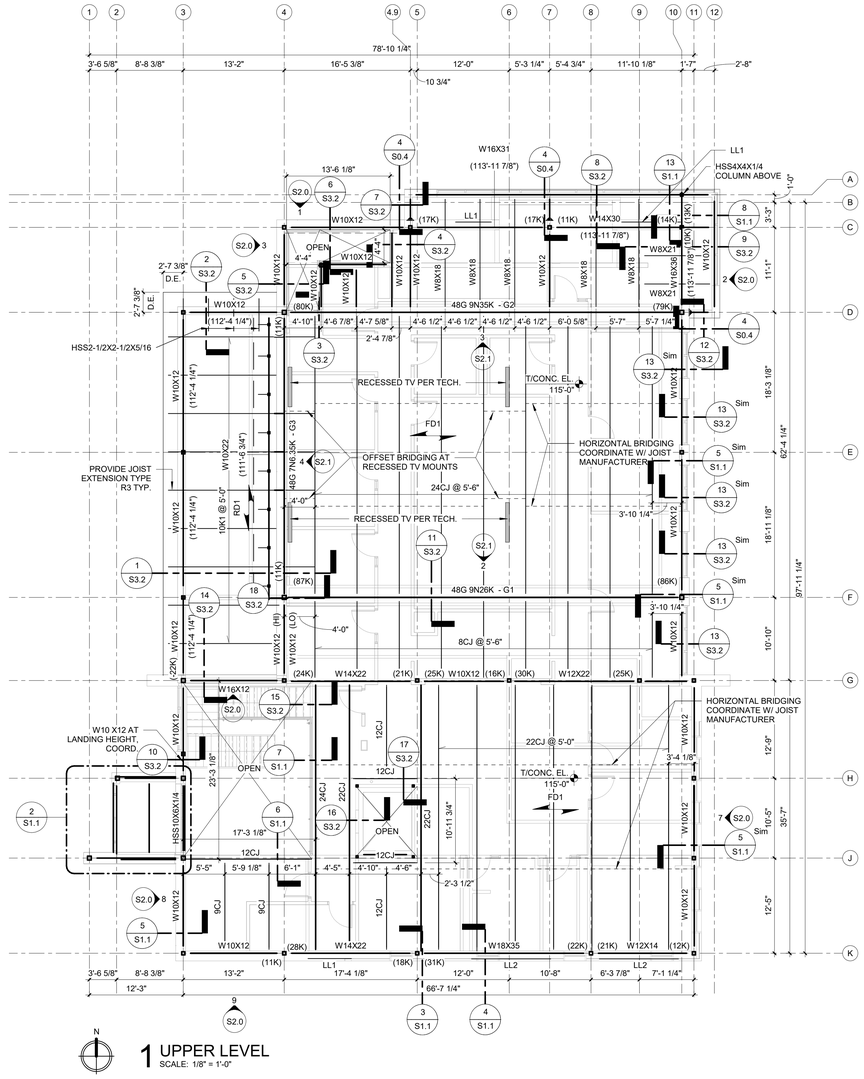
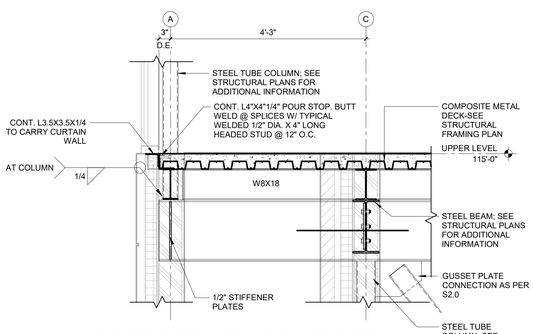
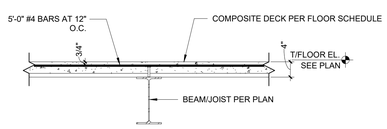


1 UPPER LEVEL
SCALE: 1/8" = 1'-0"

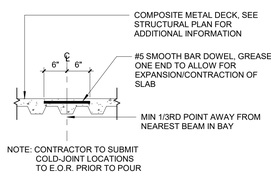
ROOF AND FLOOR SCHEDULE		
MARK	FLOOR/ROOF TYPE	DESCRIPTION
FD1	COMPOSITE DECK	2" LIGHTWEIGHT CONCRETE W/ MACROFIBER REINFORCEMENT OVER 2" METAL DECK FASTEN TO SUPPORTS WITH 5/8" PUDDLE WELDS IN A 36/4 PATTERN WITH 1-1/2" TOP ARC SEAM WELDS AT 18" O.C. AT SIDES. SEE STRUCTURAL GENERAL NOTES FOR SHEAR TAB SPECIFICATIONS.
RD1	WIDE RIB PAINTED METAL DECK	1 1/2" X 20 GA. FASTEN TO DECK SUPPORTING STEEL WITH 5/8" PUDDLE WELDS IN A 36/5 PATTERN WITH (7) #10 TEK SCREWS SIDE LAP CONNECTION BETWEEN EACH SUPPORT, U.N.O.



13 STUB COLUMN AT CANTILEVER
SCALE: 3/4" = 1'-0"



14 TYPICAL COMPOSITE DECK REINFORCEMENT AT BEAM SUPPORTS
SCALE: 3/4" = 1'-0"



15 COLD-JOINT AT COMPOSITE DECK
SCALE: 3/4" = 1'-0"

UPPER LEVEL FRAMING PLAN NOTES:

GENERAL

1. FOR GENERAL NOTES, SPECIAL INSPECTIONS, AND MATERIAL STRENGTHS SEE SHEETS S0.1 AND S0.2.
2. SEE SHEETS S0.3 AND S0.4 FOR TYPICAL DETAILS.
3. COORDINATE OPENINGS IN WALLS AND SLABS WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
4. CONTRACTOR TO VERIFY AND COORDINATE SIZE AND WEIGHT OF MECHANICAL UNITS PRIOR TO MANUFACTURING AND INSTALLATION OF SUPPLEMENTAL FRAMING MEMBERS AT CURB SUPPORT.
5. NO FIELD CUTTING OF OPENINGS ALLOWED.
6. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING ADDITIONAL DIMENSIONS AND ELEVATIONS.
7. REFER TO LOOSE LINTEL SCHEDULE ON S0.4 FOR BRICK SUPPORT OVER WINDOW OPENING. ALL LINTELS TO BE GALVANIZED AND PAINTED PER ARCHITECTURAL.

COMPOSITE DECK

1. INDICATES SPAN DIRECTION OF FLOOR DECK.
2. DECK BEARING ELEVATION AS INDICATED.
3. SEE S0.4 FOR TYPICAL OPENING FRAME FOR OPENINGS OVER 14" WIDE. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING LOCATIONS AND SIZE. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN SLAB WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL.
4. SEE SCHEDULE ON THIS SHEET FOR ROOF DECK TYPES AND FASTENING PATTERNS.
5. AT COMPOSITE DECK OVER BEAM PROVIDE MID-DEPTH REINFORCEMENT PER 14/S1.1 TYPICAL.
6. CONTRACTOR TO COORDINATE LOCATIONS OF COLD JOINTS W/ ENGINEER PRIOR TO POURS.

COMPOSITE STEEL BEAMS

1. T/BEAM ELEVATION 114'-8" UNLESS NOTED OTHERWISE.
2. SERVICE REACTION FOR STEEL BEAMS ARE SHOWN AS (xxK) ON PLAN NEAR END OF BEAM. WHERE NOT NOTED, STEEL SUPPLIER TO PROVIDE CONNECTIONS PER STRUCTURAL GENERAL NOTES.
3. ADDITIONAL TENSION CONNECTION DESIGN LOADS INDICATED [xxK] ON PLAN.
4. PROVIDE A MINIMUM OF ONE 3/4" DIAMETER x 4 HEADED STUD SPACED AT 12" O.C. FOR THE ENTIRE LENGTH OF EACH BEAM SUPPORTING COMPOSITE DECK & SLAB. BEAMS REQUIRING MORE HEADED STUDS HAVE THE TOTAL NUMBER INDICATED AS [W18x35 (XX)] OR AS [W18x35 (XX-XXX-XX)]. SEE DETAIL ON S0.4 FOR STUD DISTRIBUTION.
5. WHERE BEAM CANTILVER THROUGH SUPPORTING BEAM VIA FULL PENETRATION MOMENT CONNECTION, CANTILEVER SPAN SHALL BE THE SAME SECTION AS BACKSPAN.

STEEL ROOF JOISTS

1. TOP OF JOIST AT DECK BEARING ELEVATION.
2. ADDITIONAL TOP CHORD AXIAL LOAD INDICATED [xxK] ON PLAN.
3. SEE S0.5 FOR TYPICAL SLAB OPENING FRAMES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING LOCATIONS AND SIZE.

COMPOSITE STEEL FLOOR JOISTS

1. CJ-SERIES JOISTS TO HAVE 5" DEEP JOIST SEAT. VERIFY ALL JOIST SEAT DEPTHS WITH MANUFACTURER AND NOTIFY ENGINEER IF DIFFERENT THAN INDICATED.
2. T/JOIST ELEVATION AT BOTTOM OF DECK ELEVATION UNLESS NOTED OTHERWISE.
3. MANUFACTURER RESPONSIBLE FOR CONNECTION DESIGN AND VERIFICATION OF JOIST DEPTH AND SPACING BASED ON UNIFORM LOADING SHOWN ON S0.1.
4. COORDINATE HEADED SHEAR STUD SIZE AND SPACING WITH MANUFACTURER REQUIREMENTS.
5. MANUFACTURER TO ACCOUNT FOR JOIST AND JOIST GIRDER CAMBER IN UPPER LEVEL FLOOR SLAB. ENSURE ANTICIPATED CAMBER DOES NOT IMPACT DECK CONCRETE COVER.
6. COORDINATE HORIZONTAL BRIDGING LOCATIONS AND CONFIGURATIONS W/ JOIST MANUFACTURER. G.C. TO VERIFY MEP ROUTING.

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IMEG
SNYDER & ASSOCIATES

SHEET TITLE
UPPER LEVEL FRAMING PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023
REV. NO. DATE

PROJECT NUMBER
202213.02

SHEET
S1.1

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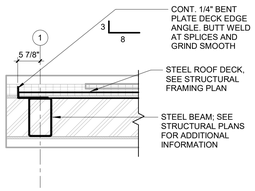
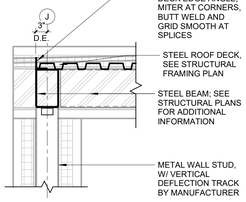
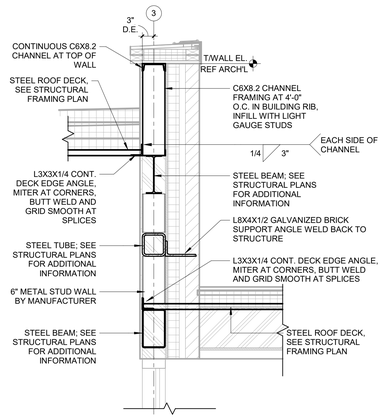


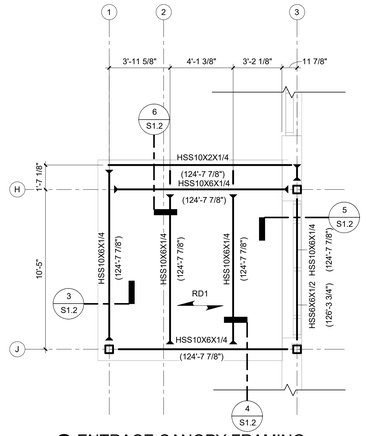
3 CANOPY ROOF EDGE - WEST
SCALE: 3/4" = 1'-0"



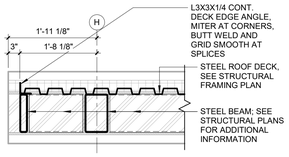
4 CANOPY ROOF EDGE - SOUTH
SCALE: 3/4" = 1'-0"



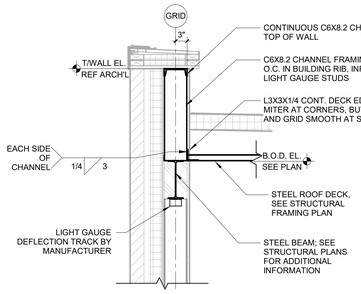
5 CANOPY ROOF EDGE - EAST
SCALE: 3/4" = 1'-0"



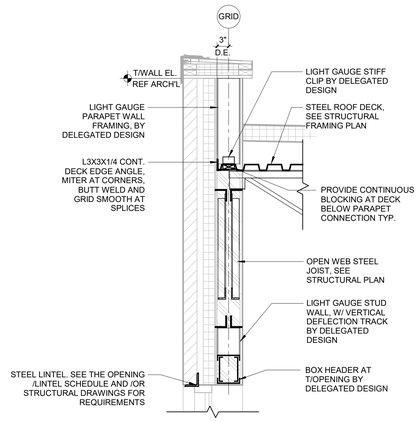
2 ENTRACE CANOPY FRAMING
SCALE: 1/4" = 1'-0"



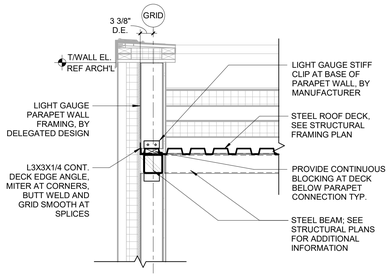
6 CANOPY ROOF EDGE - NORTH
SCALE: 3/4" = 1'-0"



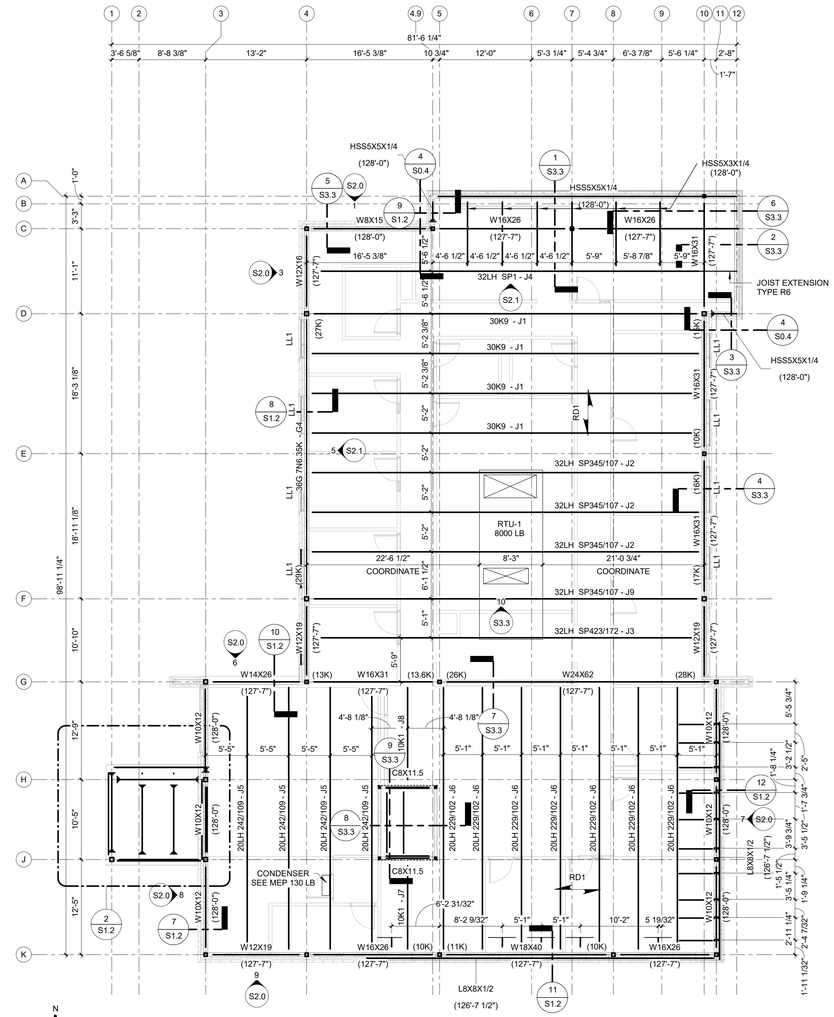
7 ROOF DECK BEARING ON PERIMETER BEAM
SCALE: 3/4" = 1'-0"



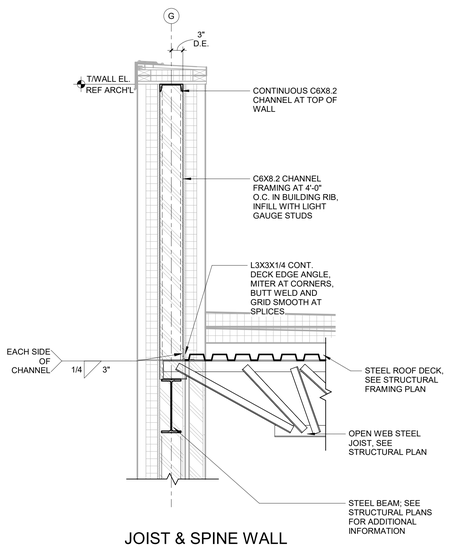
8 ROOF JOIST BEARING AT PERIMETER BEAM
SCALE: 3/4" = 1'-0"



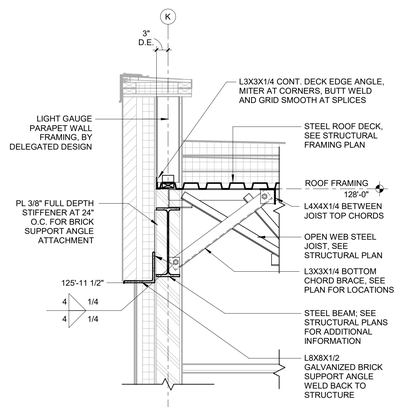
9 ROOF DECK & BEAM BEARING ON CANTILEVER BEAM
SCALE: 3/4" = 1'-0"



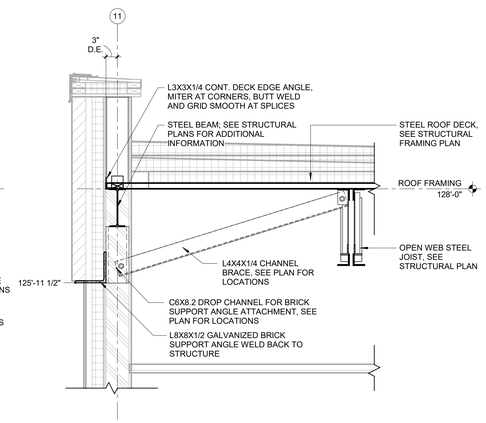
1 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



10 JOIST & SPINE WALL FRAMING BEARING ON INTERIOR BEAM
SCALE: 3/4" = 1'-0"



11 BRICK SUPPORT AT SOUTH WALL
SCALE: 3/4" = 1'-0"



12 BRICK SUPPORT AT EAST WALL
SCALE: 3/4" = 1'-0"

ROOF AND FLOOR SCHEDULE		
MARK	FLOOR/ROOF TYPE	DESCRIPTION
FD1	COMPOSITE DECK	2" LIGHTWEIGHT CONCRETE W/ MACROFIBER REINFORCEMENT OVER 2" METAL DECK FASTEN TO SUPPORTS WITH 5/8" PUDDLE WELDS IN A 36/4 PATTERN WITH 1-1/2" TOP ARC SEAM WELDS AT 18" O.C. AT SIDES. SEE STRUCTURAL GENERAL NOTES FOR SHEAR TAB SPECIFICATIONS.
RD1	WIDE RIB PAINTED METAL DECK	1 1/2" X 20 GA. FASTEN TO DECK SUPPORTING STEEL WITH 5/8" PUDDLE WELDS IN A 36/5 PATTERN WITH (7) #10 TEK SCREWS SIDE LAP CONNECTION BETWEEN EACH SUPPORT, U.N.O.

ROOF FRAMING PLAN NOTES:

GENERAL

1. FOR GENERAL NOTES, SPECIAL INSPECTIONS, AND MATERIAL STRENGTHS SEE SHEETS S0.1 AND S0.2.
2. SEE SHEETS S0.3 AND S0.4 FOR TYPICAL DETAILS.
3. COORDINATE OPENINGS IN WALLS AND SLABS WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
4. CONTRACTOR TO VERIFY AND COORDINATE SIZE AND WEIGHT OF ROOF TOP MECHANICAL UNITS PRIOR TO MANUFACTURING AND INSTALLATION OF SUPPLEMENTAL FRAMING MEMBERS AT CURB SUPPORT.
5. NO FIELD CUTTING OF OPENINGS ALLOWED.
6. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING ADDITIONAL DIMENSIONS AND ELEVATIONS.
7. REFER TO LOOSE LINTEL SCHEDULE ON S0.4 FOR BRICK SUPPORT OVER WINDOW OPENINGS. ALL LINTELS TO BE GALVANIZED AND PAINTED PER ARCHITECTURAL.

STEEL ROOF DECK

1. INDICATES SPAN DIRECTION OF ROOF DECK.
2. DECK BEARING ELEVATION AT CLERESTORY ROOF AS INDICATED.
3. SEE S0.4 FOR TYPICAL OPENING FRAME FOR OPENINGS OVER 14" WIDE. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING LOCATIONS AND SIZE. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN SLAB WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL.
4. SEE DECK SCEDULE ON THIS SHEET FOR DECK TYPES AND FASTENING.

STEEL ROOF JOISTS

1. K-SERIES AND LH-SERIES JOISTS AT ROOF FRAMING TO HAVE 5" DEEP JOIST SEAT. VERIFY ALL JOIST SEAT DEPTHS WITH MANUFACTURER AND NOTIFY ENGINEER IF DIFFERENT THAN INDICATED.
2. TOP OF JOIST AT DECK BEARING ELEVATION.
3. SEE PLAN DETAILS ON S2.0 FOR JOIST WIND UPLIFT LOADING.
4. ADDITIONAL TOP CHORD AXIAL LOAD INDICATED [xxK] ON PLAN.
5. SEE S0.4 FOR TYPICAL ROOF OPENING FRAMES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING LOCATIONS AND SIZE.
6. SEE S0.4 FOR TYPICAL ROOF EQUIPMENT CURB SUPPORT FRAMING. COORDINATE WITH MECHANICAL CONTRACTOR FOR CURB LOCATIONS.

STEEL BEAM

1. SERVICE REACTIONS FOR STEEL BEAM CONNECTION DESIGN ARE INDICATED AS (xxK) ON PLAN. WHERE NOT NOTED, STEEL SUPPLIER TO PROVIDE CONNECTIONS PER STRUCTURAL GENERAL NOTES.
2. ADDITIONAL TENSION/COMPRESSION (AXIAL) CONNECTION DESIGN LOADS INDICATED [xxK] ON PLAN.
3. T/BEAM ELEVATION AT DECK BEARING ELEVATION OR AT JOIST BEARING ELEVATION (IF SUPPORTING JOISTS) UNLESS NOTED OTHERWISE.

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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES

SHEET TITLE
ROOF FRAMING PLAN

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

REV. NO. DATE

PROJECT NUMBER
202213.02

SHEET
S1.2

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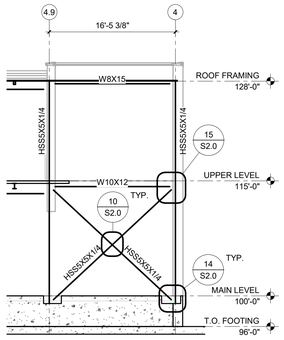
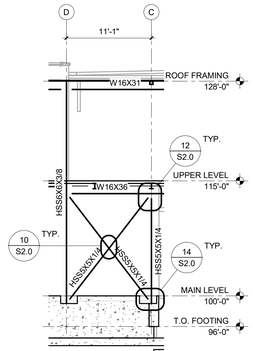


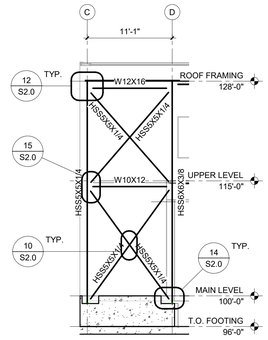
NOTE: COORDINATE WALL LEAVE-OUTS AT BASEPLATES TO ALLOW FOR CROSS BRACING

1 BRACE FRAME GRID C-4/4.9
SCALE: 1/8" = 1'-0"



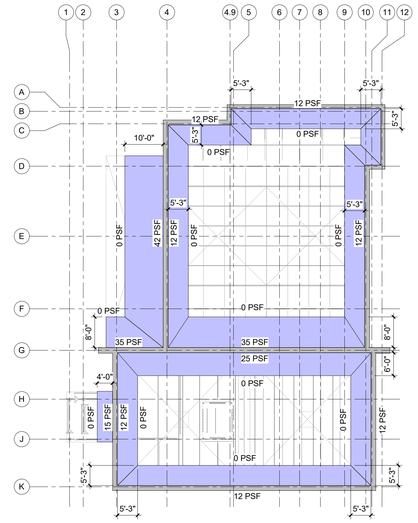
NOTE: COORDINATE WALL LEAVE-OUTS AT BASEPLATES TO ALLOW FOR CROSS BRACING

2 BRACE FRAME - GRID 12/B-C
SCALE: 1/8" = 1'-0"

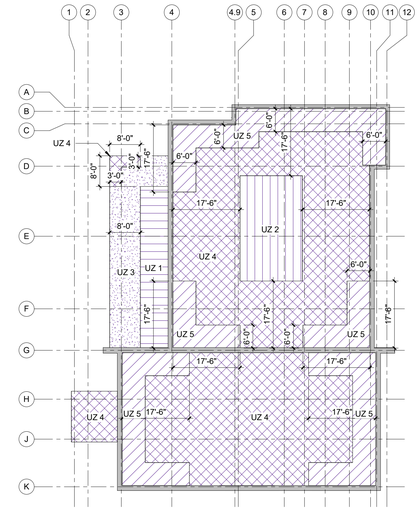


NOTE: COORDINATE WALL LEAVE-OUTS AT BASEPLATES TO ALLOW FOR CROSS BRACING

3 BRACE FRAME - GRID 6/B-C
SCALE: 1/8" = 1'-0"



4 SNOW DRIFT PLAN
SCALE: 1/16" = 1'-0"



5 WIND UPLIFT PLAN
SCALE: 1/16" = 1'-0"

SNOW DRIFT PLAN LEGEND:

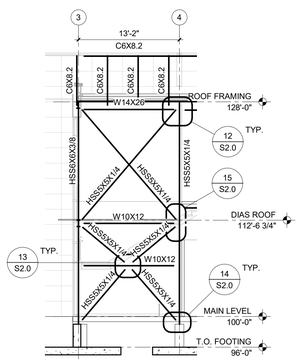
- 0 PSF MIN. — INDICATES MINIMUM DRIFT LOAD
- XX'-XX" — INDICATES LENGTH OF DRIFT
- XX PSF MAX. — INDICATES MAXIMUM DRIFT LOAD

NOTE: DRIFT LOADS SHALL BE IN ADDITION TO FLAT ROOF SNOW LOADS

WIND UPLIFT PLAN LEGEND:

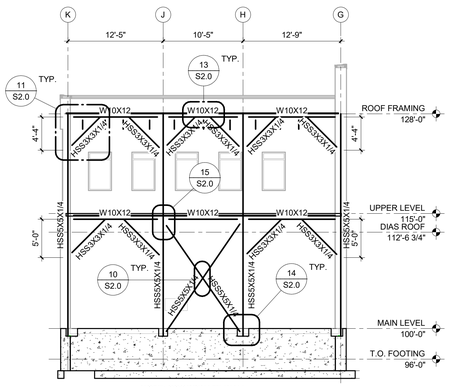
- UZ 1 — INDICATES WIND UPLIFT ZONE 1 = NET UPLIFT PRESSURE 25 PSF
- UZ 2 — INDICATES WIND UPLIFT ZONE 2 = NET UPLIFT PRESSURE 30 PSF
- UZ 3 — INDICATES WIND UPLIFT ZONE 3 = NET UPLIFT PRESSURE 35 PSF
- UZ 4 — INDICATES WIND UPLIFT ZONE 4 = NET UPLIFT PRESSURE 40 PSF
- UZ 5 — INDICATES WIND UPLIFT ZONE 5 = NET UPLIFT PRESSURE 45 PSF

NOTE: WIND UPLIFTS SHOWN ON PLAN WERE CALCULATED USING ASCE 7-16 SECTION 30 PART 2, COMPONENTS AND CLADDING. UPLIFT PRESSURES ARE NET UNFACTORED UPLIFTS (1.0W)



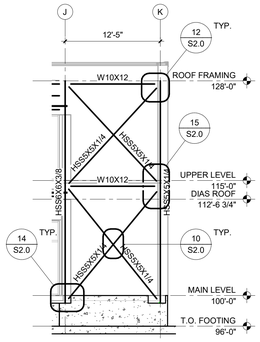
NOTE: COORDINATE WALL LEAVE-OUTS AT BASEPLATES TO ALLOW FOR CROSS BRACING

6 BRACE FRAME - GRID F/4-6
SCALE: 1/8" = 1'-0"



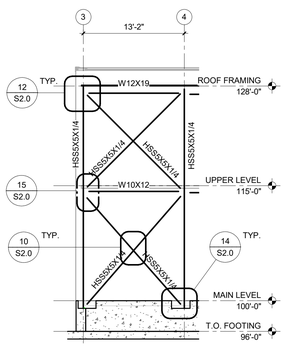
NOTE: COORDINATE WALL LEAVE-OUTS AT BASEPLATES TO ALLOW FOR CROSS BRACING

7 BRACE FRAME - GRID 13/F-J
SCALE: 1/8" = 1'-0"

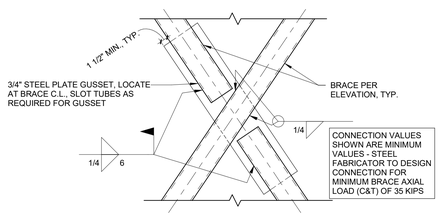


NOTE: COORDINATE WALL LEAVE-OUTS AT BASEPLATES TO ALLOW FOR CROSS BRACING

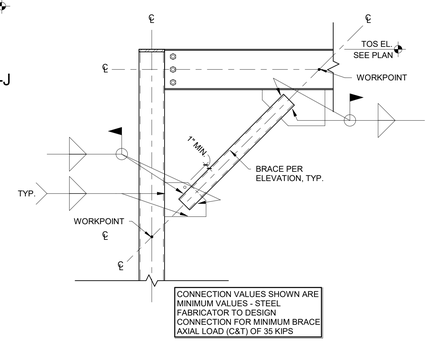
8 BRACE FRAME - GRID 4/H-J
SCALE: 1/8" = 1'-0"



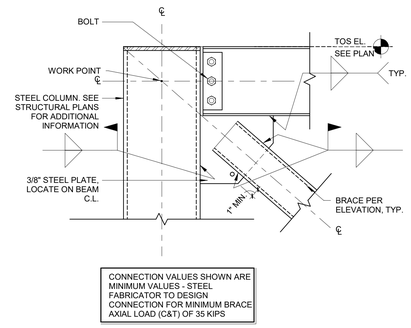
9 BRACE FRAME - GRID J/4-6
SCALE: 1/8" = 1'-0"



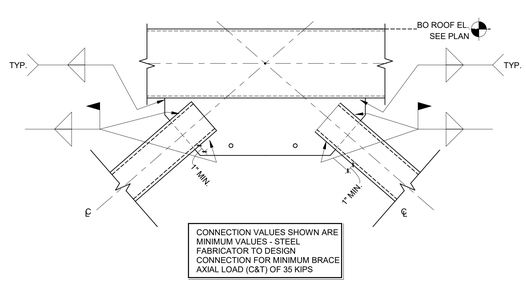
10 BRACE INTERSECTION AT HSS CROSS BRACE
SCALE: 1" = 1'-0"



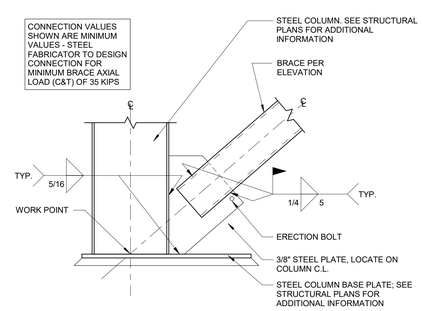
11 BRACE INTERSECTION AT KICKER
SCALE: 1" = 1'-0"



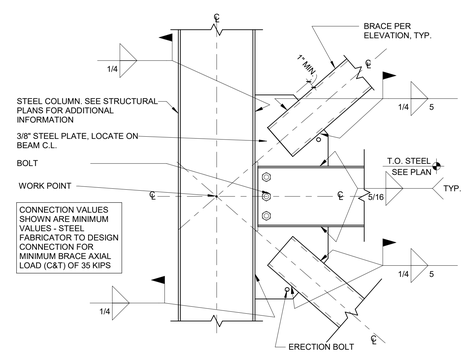
12 HSS BRACED FRAME CONNCTION INTO COLUMN
SCALE: 1 1/2" = 1'-0"



13 HSS BRACED FRAME CONNECTION AT CHEVRON
SCALE: 1 1/2" = 1'-0"



14 HSS BRACED FRAME INTO COLUMN FLANGE AT WIDE BASE PLATE
SCALE: 1 1/2" = 1'-0"



15 HSS BRACED FRAME CONNECTION INTO COLUMN FLANGE
SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
BRACED FRAME ELEVATIONS/DETAILS AND LOAD PLANS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

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S2.0

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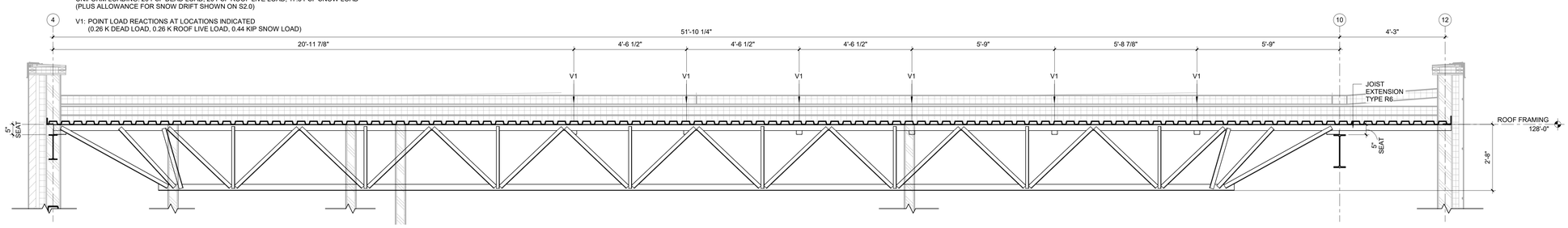
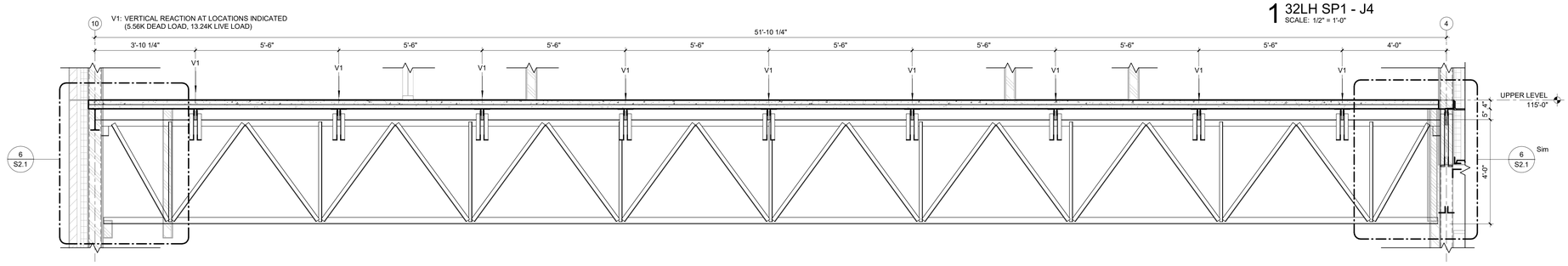
UNIFORM LOADING: 20 PSF DEAD LOAD, 20 PSF ROOF LIVE LOAD, 17.5 PSF SNOW LOAD
(PLUS ALLOWANCE FOR SNOW DRIFT SHOWN ON S2.0)

V1: POINT LOAD REACTIONS AT LOCATIONS INDICATED
(0.26 K DEAD LOAD, 0.26 K ROOF LIVE LOAD, 0.44 KIP SNOW LOAD)



1 32LH SP1 - J4
SCALE: 1/2" = 1'-0"

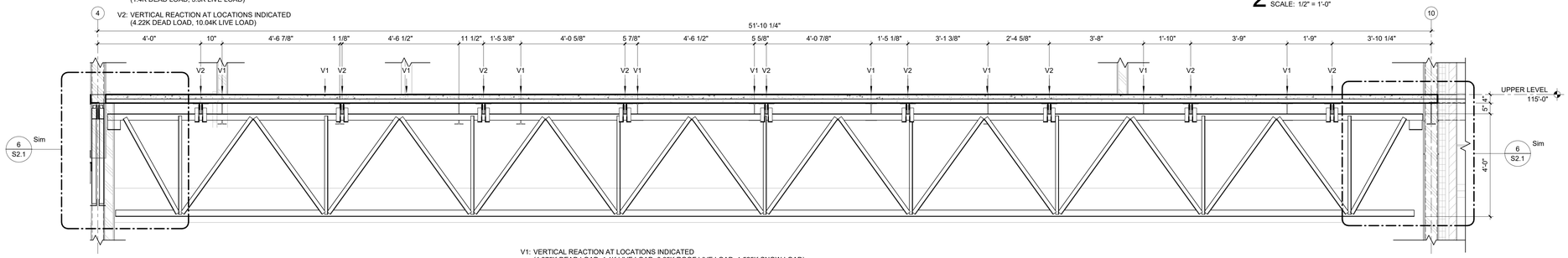
V1: VERTICAL REACTION AT LOCATIONS INDICATED
(5.56K DEAD LOAD, 13.24K LIVE LOAD)



2 JOIST GIRDER - 48G 9N26K - G1
SCALE: 1/2" = 1'-0"

V1: VERTICAL REACTION AT LOCATIONS INDICATED
(1.4K DEAD LOAD, 3.3K LIVE LOAD)

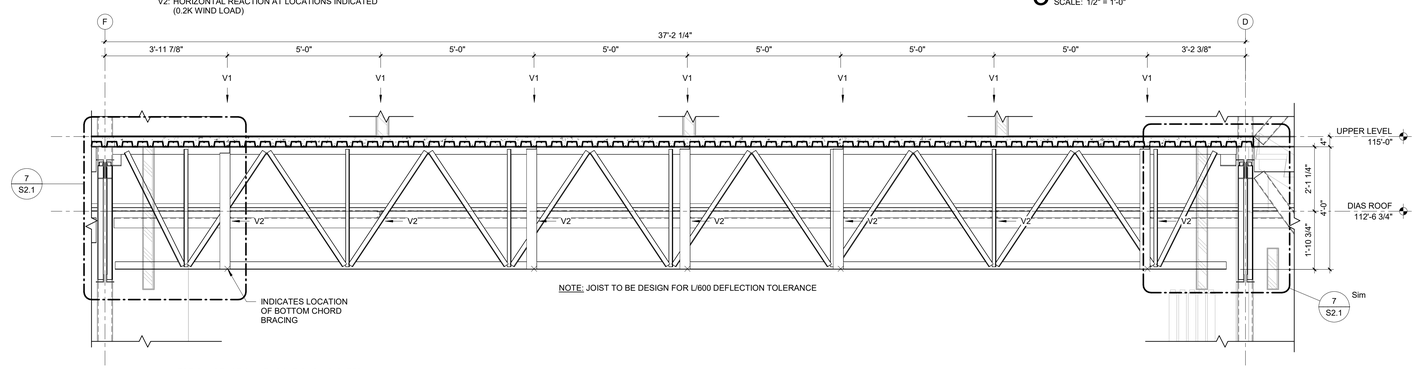
V2: VERTICAL REACTION AT LOCATIONS INDICATED
(4.22K DEAD LOAD, 10.04K LIVE LOAD)



3 JOIST GIRDER 48G 9N35K - G2
SCALE: 1/2" = 1'-0"

V1: VERTICAL REACTION AT LOCATIONS INDICATED
(4.375K DEAD LOAD, 1.1K LIVE LOAD, 0.65K ROOF LIVE LOAD, 1.525K SNOW LOAD)

V2: HORIZONTAL REACTION AT LOCATIONS INDICATED
(0.2K WIND LOAD)

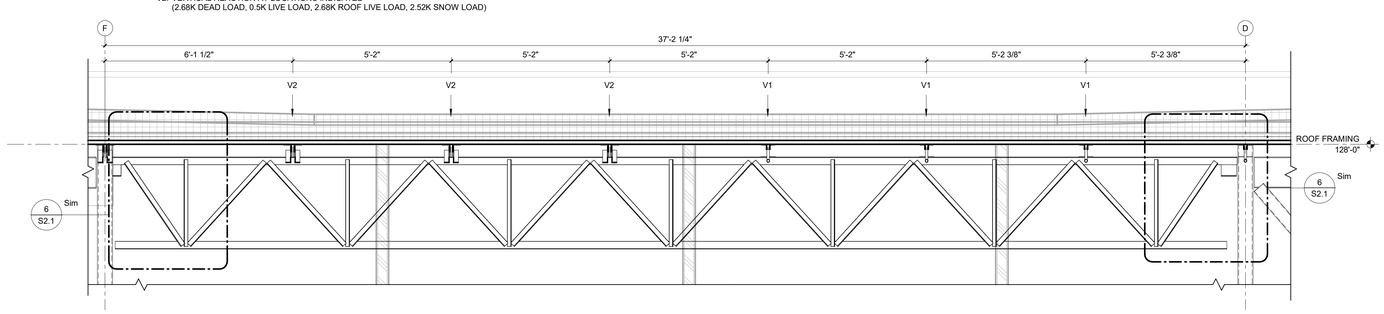


NOTE: JOIST TO BE DESIGN FOR L/600 DEFLECTION TOLERANCE

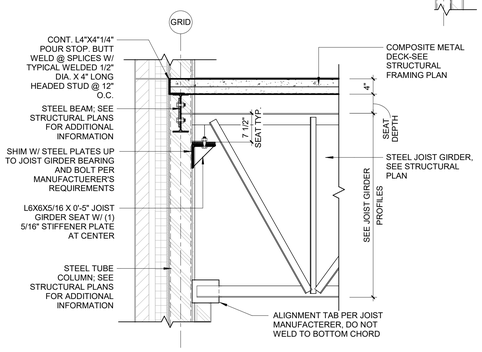
4 JOIST GIRDER - 48G 7N6.35K - G3
SCALE: 1/2" = 1'-0"

V1: VERTICAL REACTION AT LOCATIONS INDICATED
(2.68K DEAD LOAD, 2.68K ROOF LIVE LOAD, 2.52K SNOW LOAD)

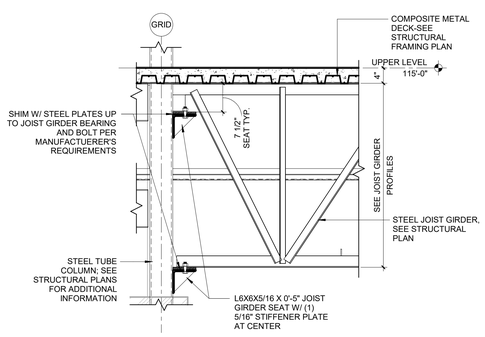
V2: VERTICAL REACTION AT LOCATIONS INDICATED
(2.68K DEAD LOAD, 0.5K LIVE LOAD, 2.68K ROOF LIVE LOAD, 2.52K SNOW LOAD)



5 JOIST GIRDER - 36G 7N6.35K - G4
SCALE: 1/2" = 1'-0"



6 TYPICAL JOIST GIRDER BEARING AT COLUMN
SCALE: 3/4" = 1'-0"



7 TYPICAL JOIST GIRDER BEARING AT COLUMN W/ BOTTOM CHORD ATTACHMENT
SCALE: 3/4" = 1'-0"

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SHEET TITLE
SPECIAL JOIST PROFILES

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

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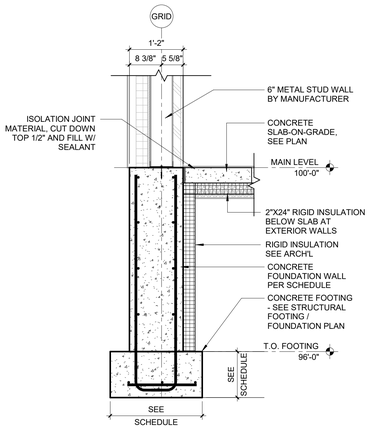
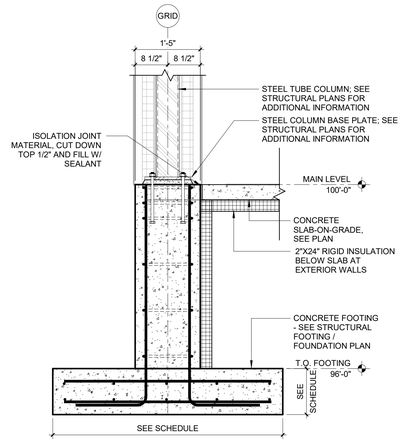
SHEET
S2.1



1 TYPICAL FOUNDATION WALL AT METAL PANEL
SCALE: 3/4" = 1'-0"



2 CANOPY PIER DETAIL
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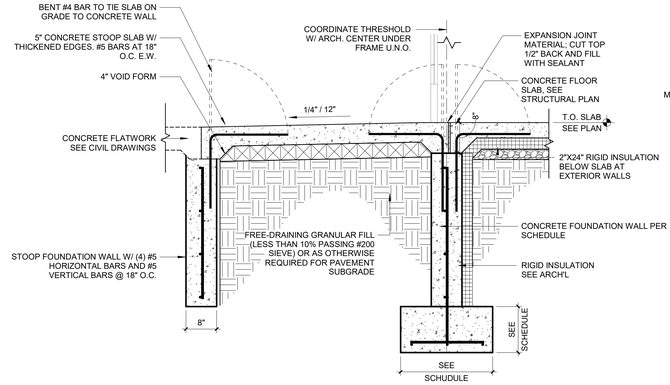

3 TYPICAL STOOP DETAIL
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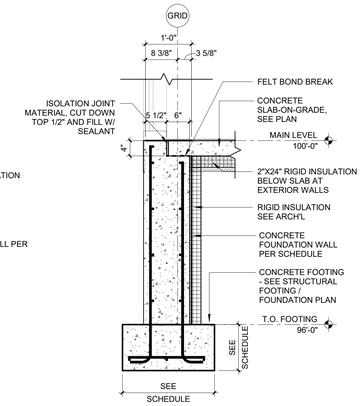
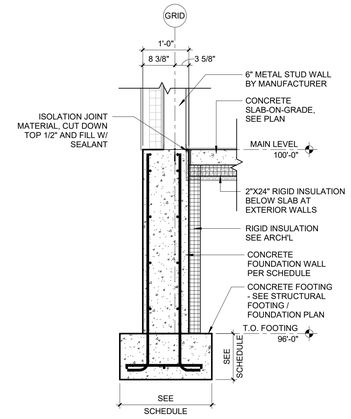
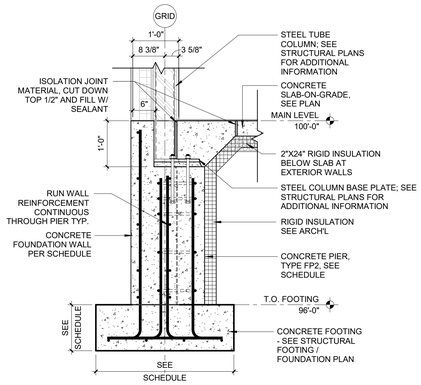


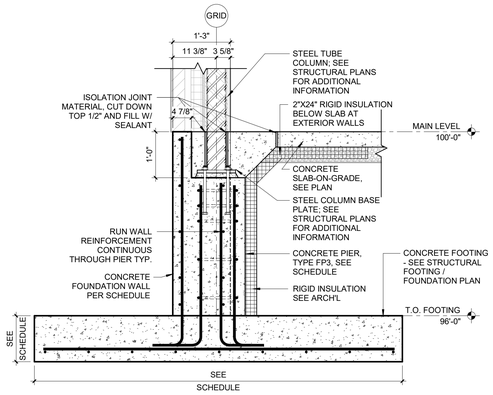
4 TYPICAL FOUNDATION WALL AT CURTAIN WALL
SCALE: 3/4" = 1'-0"



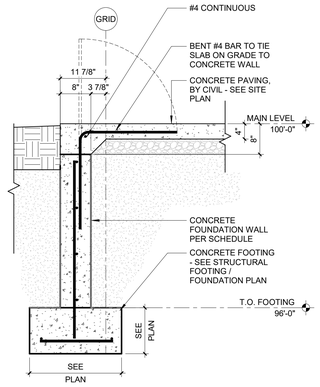
FOUNDATION WALL AT METAL STUD W/ METAL PANEL
5 SCALE: 3/4" = 1'-0"



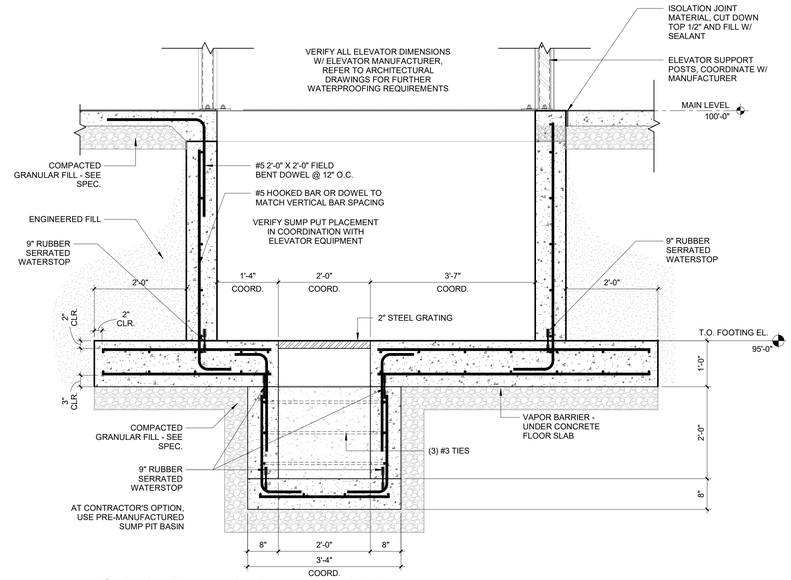
COLUMN PIER AT FOUNDATION WALL W/ METAL PANEL
6 SCALE: 3/4" = 1'-0"



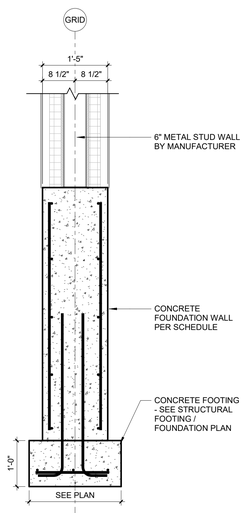
7 COLUMN PIER AT FOUNDAITON WALL W/ BRICK
SCALE: 3/4" = 1'-0"



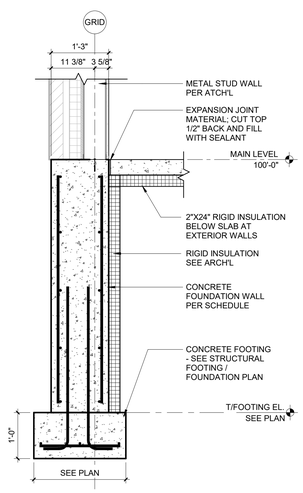
8 RETAINING WALL ALONG PATIO EDGE
SCALE: 3/4" = 1'-0"



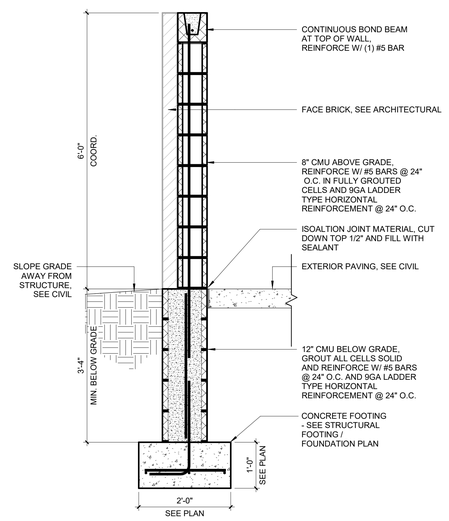
9 SECTION THROUGH ELEVATOR PIT
SCALE: 3/4" = 1'-0"



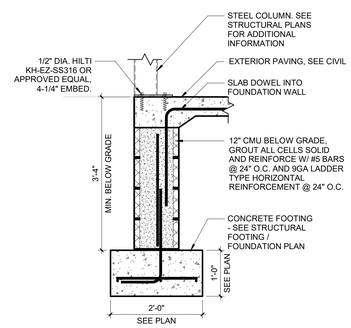
10 FOUNDATION WALL AT RIB
SCALE: 3/4" = 1'-0"



11 TYPICAL FOUNDATION WALL AT BRICK
SCALE: 3/4" = 1'-0"



12 TYPICAL WALL AT TRASH ENCLOSURE
SCALE: 3/4" = 1'-0"



13 POST SUPPORT AT TRASH ENCLOSURE
SCALE: 3/4" = 1'-0"

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IN ASSOCIATION WITH
IMEG
SNYDER & ASSOCIATES

SHEET TITLE
ADDITIONAL FOUNDATION DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

REV. NO.	DATE

PROJECT NUMBER
202213.02

SHEET
S3.1

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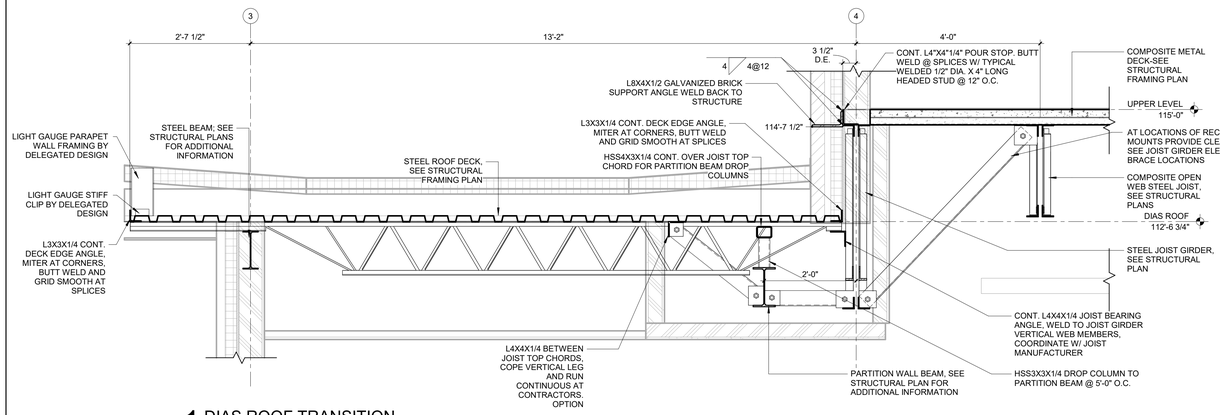

1 DIAS ROOF TRANSITION
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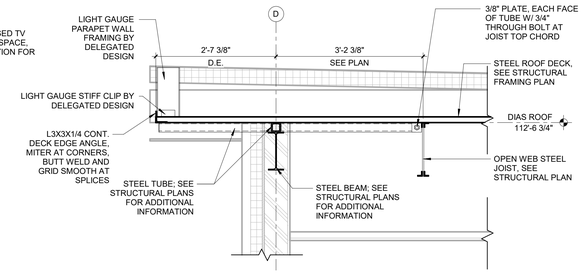

2 CANTILEVERED DECK EDGE AT DIAS
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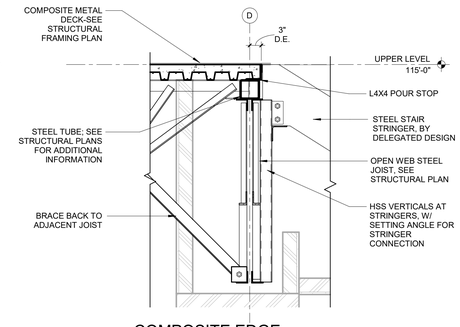
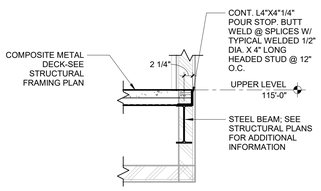
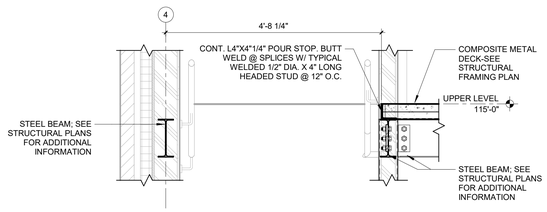


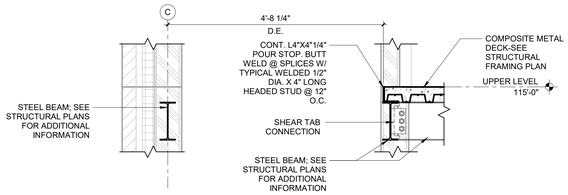
3 COMPOSITE EDGE SUPPORT AT STAIR LEDGE
SCALE: 3/4" = 1'-0"



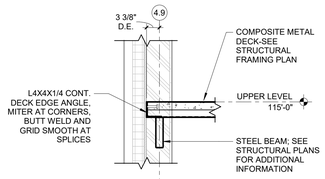
4 COMPOSITE EDGE SUPPORT AT STAIR OPENING
SCALE: 3/4" = 1'-0"



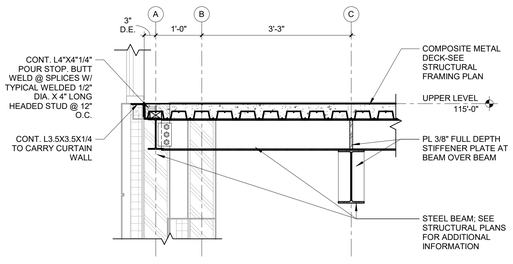
5 FRAMING IN STAIR WALLS - EAST & WEST
SCALE: 3/4" = 1'-0"



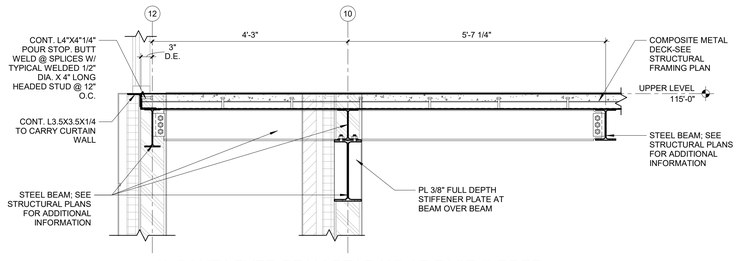
6 FRAMING IN STAIR WALLS - NORTH & SOUTH
SCALE: 3/4" = 1'-0"



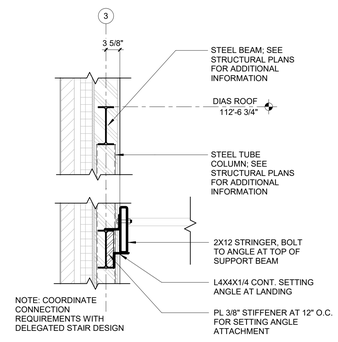
7 COMPOSITE DECK BEARING AT CANTILEVER BEAM - NORTH
SCALE: 3/4" = 1'-0"



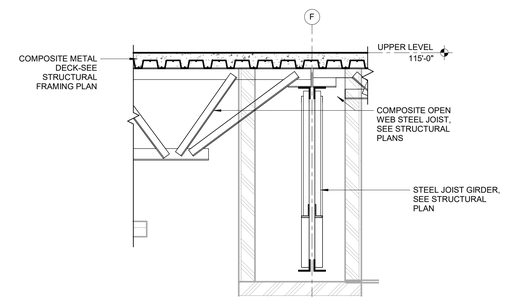
8 CANTILEVER BEAM BEARING AT NORTH GIRDER
SCALE: 3/4" = 1'-0"



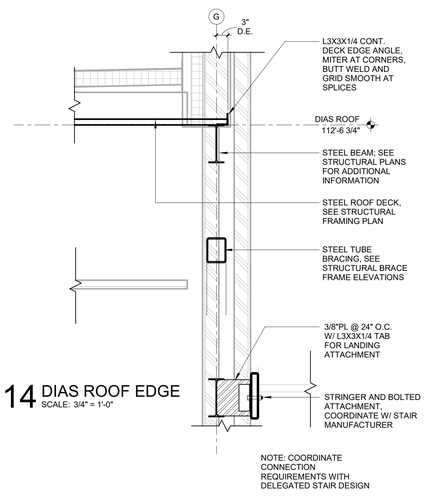
9 CANTILEVER BEAM BEARING AT EAST GIRDER
SCALE: 3/4" = 1'-0"



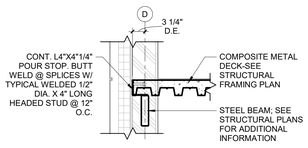
10 STAIR SUPPORT AT LOWER LANDING
SCALE: 3/4" = 1'-0"



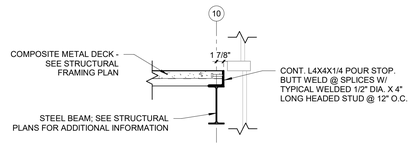
11 COMPOSITE JOISTS BEARING ON JOIST GIRDER
SCALE: 3/4" = 1'-0"



14 DIAS ROOF EDGE
SCALE: 3/4" = 1'-0"



COMPOSITE DECK BEARING AT CANTILEVER BEAM - EAST
12 SCALE: 3/4" = 1'-0"



13 FLOOR SLAB AT CONTINUOUS CURTAIN WALL
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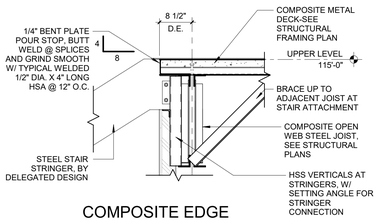
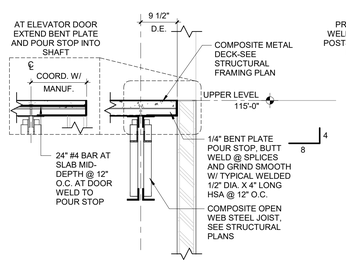
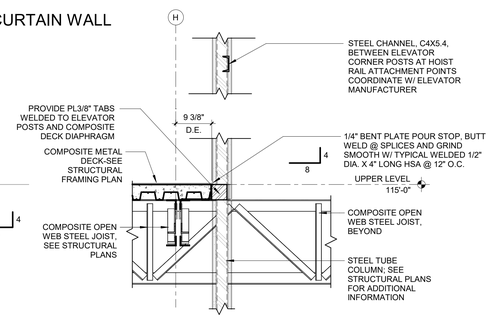


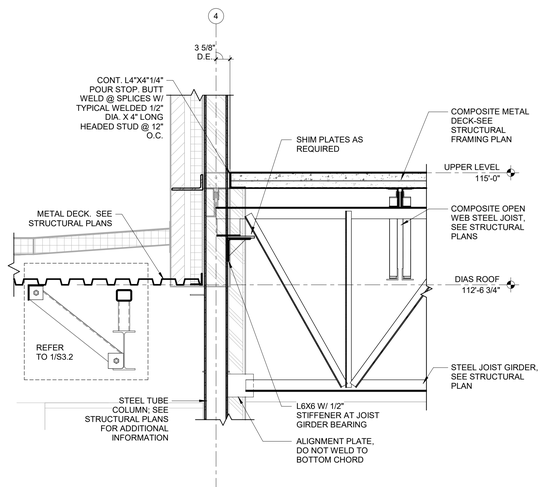
COMPOSITE EDGE SUPPORT AT STAIRS AT EAST ENTRANCE
15 SCALE: 3/4" = 1'-0"



COMPOSITE EDGE SUPPORT AT ELEVATOR SHAFT - EAST & WEST
16 SCALE: 3/4" = 1'-0"



COMPOSITE EDGE SUPPORT AT ELEVATOR SHAFT - NORTH & SOUTH
17 SCALE: 3/4" = 1'-0"



18 DIAS FRAMING & JOIST GIRDER BEARING AT COLUMN
SCALE: 3/4" = 1'-0"

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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES

SHEET TITLE
ADDITIONAL UPPER LEVEL FRAMING DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023
REV. NO. DATE

PROJECT NUMBER
202213.02

SHEET
S3.2

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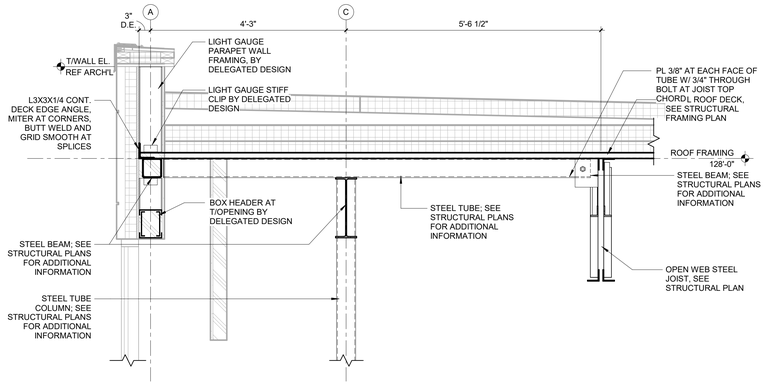
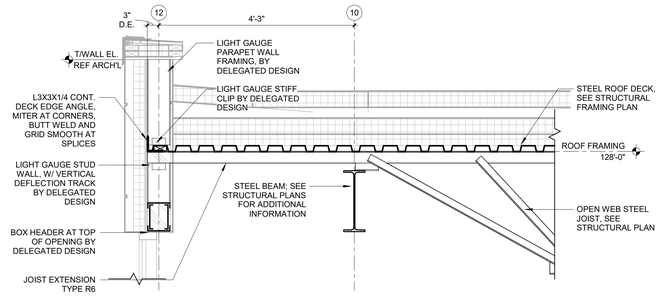


1 CANTILEVER ROOF BEAM SUPPORTED AT COLUMN
SCALE: 3/4" = 1'-0"



2 ROOF JOIST EXTENSION
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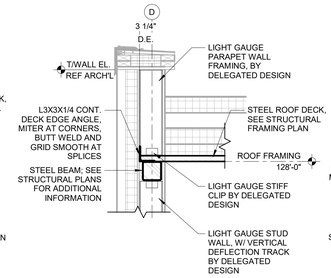
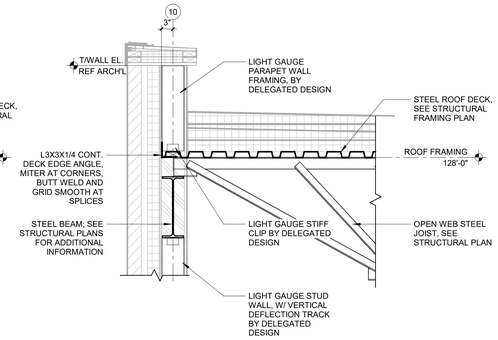
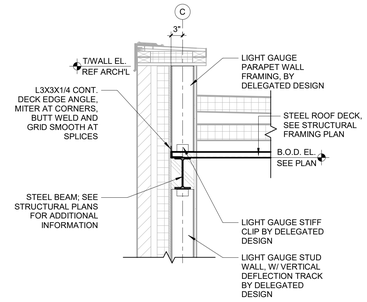


3 ROOF DECK BEARING AT PERIMETER TUBE BEAM
SCALE: 3/4" = 1'-0"



4 ROOF JOIST BEARING AT BEAM
SCALE: 3/4" = 1'-0"



5 ROOF DECK BEARING AT BEAM
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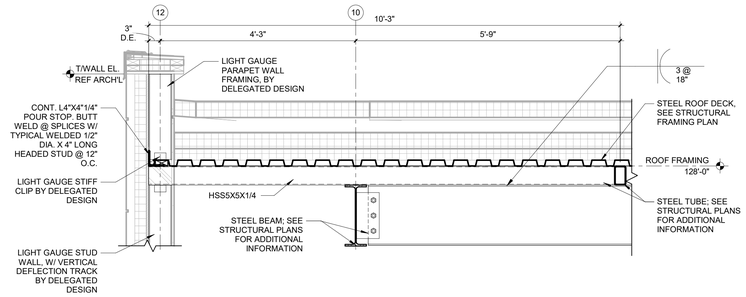
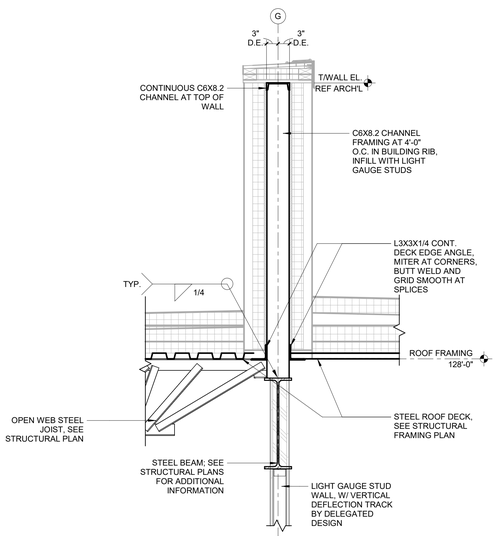
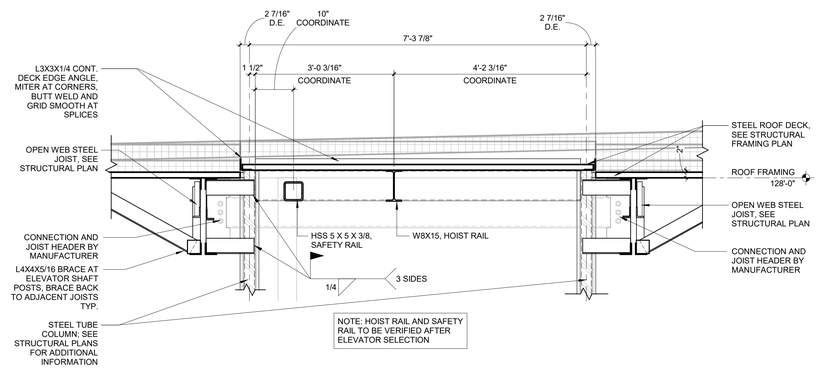


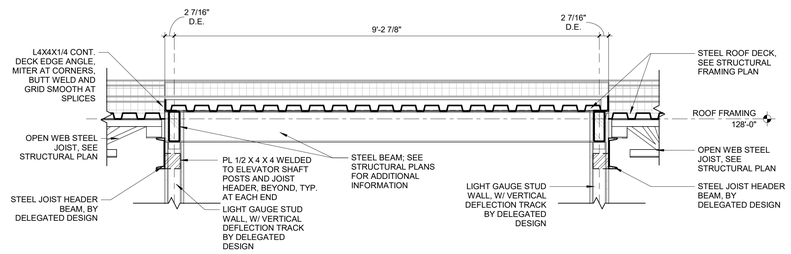
6 CANTILEVER TUBE SUPPORT
SCALE: 3/4" = 1'-0"



7 JOIST & ROOF DECK BEARING AT INTERIOR BEAM BOTH SIDES
SCALE: 3/4" = 1'-0"



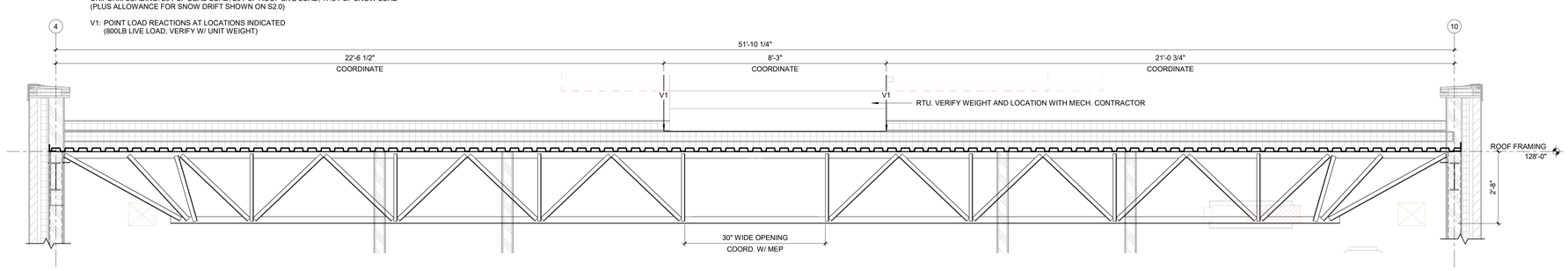
8 ELEVATOR SHAFT FRAMING - NORTH & SOUTH
SCALE: 3/4" = 1'-0"



9 ELEVATOR SHAFT FRAMING - EAST & WEST
SCALE: 3/4" = 1'-0"

UNIFORM LOADING: 20 PSF DEAD LOAD, 20 PSF ROOF LIVE LOAD, 17.5 PSF SNOW LOAD (PLUS ALLOWANCE FOR SNOW DRIFT SHOWN ON S2.0)

V1: POINT LOAD REACTIONS AT LOCATIONS INDICATED (800LB LIVE LOAD, VERIFY W/ UNIT WEIGHT)



10 32LH SP345/107 - J9
SCALE: 1/2" = 1'-0"

FEH DESIGN
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IN ASSOCIATION WITH IMEG SNYDER & ASSOCIATES

SHEET TITLE
ADDITIONAL ROOF FRAMING DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
214 S 3RD STREET
POLK CITY, IOWA 50226

DATE ISSUED 02/13/2023

REV. NO. DATE

PROJECT NUMBER
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SHEET
S3.3

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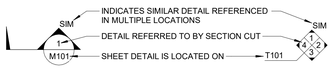
2/3/2023 11:57:06 AM

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2015 EDITION
FIRE CODE:	IFC 2015 EDITION
PLUMBING CODE:	UPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2015 EDITION
ENERGY CONSERVATION CODE:	IECC 2012
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	DAVE INGHRAM
MECHANICAL	KEITH PADGETT
ELECTRICAL	ZACH ROSS
TECHNOLOGY	MATT GRZOVIC

FIRE PROTECTION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CAF	COMPRESSED AIR - FIRE PROTECTION
DFP	DRAIN
FP	FIRE PROTECTION
FPD	FIRE PROTECTION - DRY SYSTEM
W	SERVICE WATER - POTABLE
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	UNION/FLANGE
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	SHUTOFF VALVE NORMALLY OPEN
	AUTOMATIC DRAIN VALVE
	AIR PRESSURE MAINTENANCE DEVICE
	AIR SUPERVISORY SWITCH
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	CHECK VALVE
	BACKFLOW PREVENTER
	INSPECTOR TEST AND DRAIN VALVE
	OS&Y GATE VALVE
	OS&Y GATE VALVE WITH MONITOR SWITCH
F	FLOW SWITCH
P	PRESSURE SWITCH
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	MONITOR SWITCH
	AREA BOUNDARY
NO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2

FIRE PROTECTION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SCCR	SHORT CIRCUIT CURRENT RATING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTES

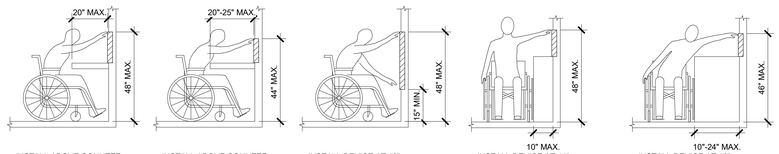
FIRE PROTECTION GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
3. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
4. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
5. PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.
6. PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILINGS, REFER TO ARCHITECTURAL PLANS.
7. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
8. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED TO MEET OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE USED.
9. ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS, OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.
10. EACH RISER ASSEMBLY SHALL INCLUDE CHECK VALVE BUTTERFLY CONTROL VALVE INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGES.
11. PROVIDE RISER ROOM IDENTIFICATION SIGNAGE OUTSIDE THE FIRE RISER ROOM. COORDINATE EXACT SIGN LANGUAGE WITH AHJ.
12. WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
13. INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE CONNECTION.
14. MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORIES ARE NOT PERMITTED.
15. FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
16. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY NFPA 13 UNLESS OTHERWISE NOTED.
17. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
18. EXACT LOCATION OF THE ALL PANELS SHALL BE VERIFIED ON SITE AND COORDINATED WITH THE ELECTRICAL CONTRACTOR.
19. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
20. THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM.
21. THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
22. DRAWING SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
23. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS. INCLUDING THOSE OF OTHER TRADES.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING; DUCTWORK, PIPING, ETC.
17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.



INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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REF. SCALE IN INCHES
PROJECT #22006578.00

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DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055

IN ASSOCIATION WITH

SHEET TITLE
FIRE PROTECTION COVERSHEET

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
F0.0

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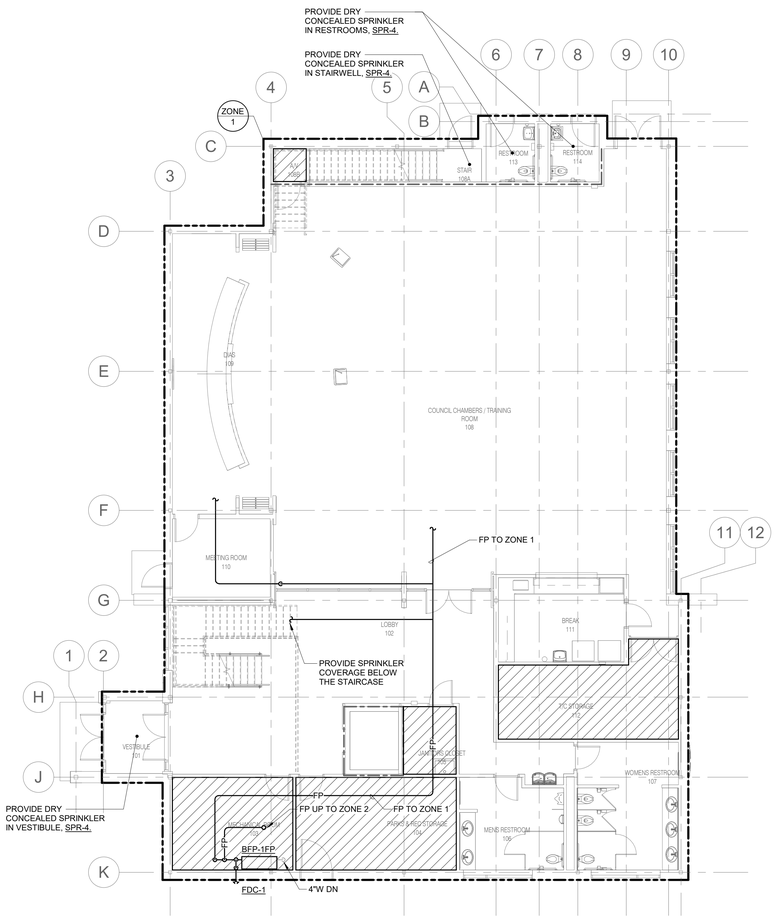
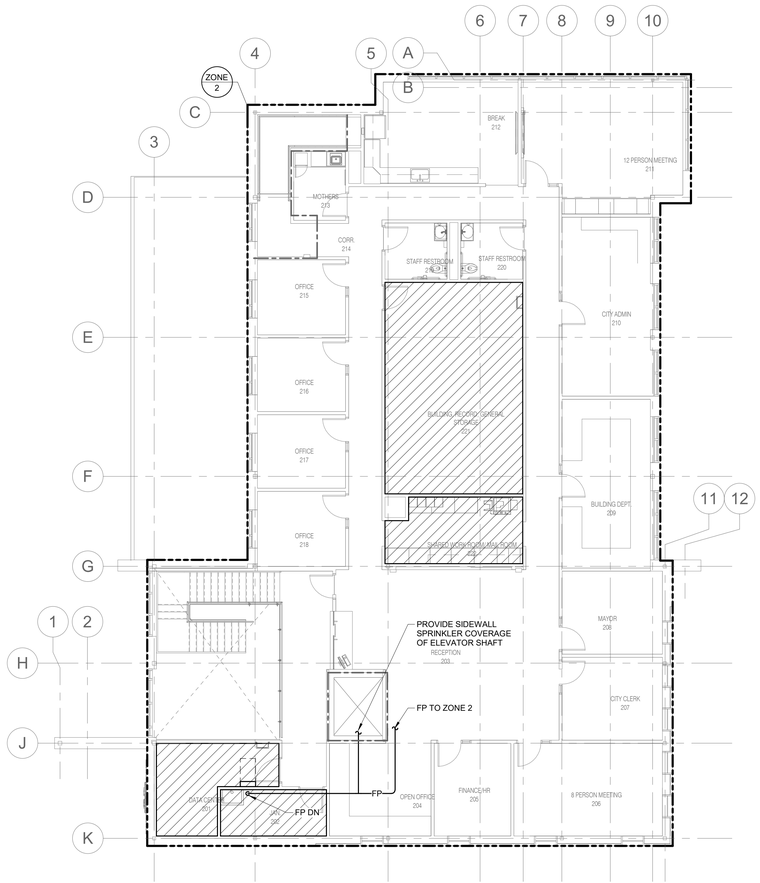
GENERAL SHEET NOTES :

1. REFER TO F0.0 FOR GENERAL SHEET NOTES, ABBREVIATIONS, AND SYMBOLS LIST.
2. REFER TO 1/F4.0 FOR PIPE SUPPORT DETAIL.
3. REFER TO 2/F4.0 FOR SPRINKLER HEAD MOUNTING DETAIL.
4. REFER TO 3/F4.0 FOR DRY SPRINKLER HEAD MOUNTING DETAIL.
5. REFER TO 4/F4.0 FOR WALL PENETRATION - NON-FIRE RATED.



NORTH 1 **MAIN FLOOR PLAN - FIRE PROTECTION**
1/8" = 1'-0"



NORTH 2 **UPPER FLOOR PLAN - FIRE PROTECTION**
1/8" = 1'-0"

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IN ASSOCIATION WITH

SHEET TITLE
FLOOR PLANS - FIRE PROTECTION

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

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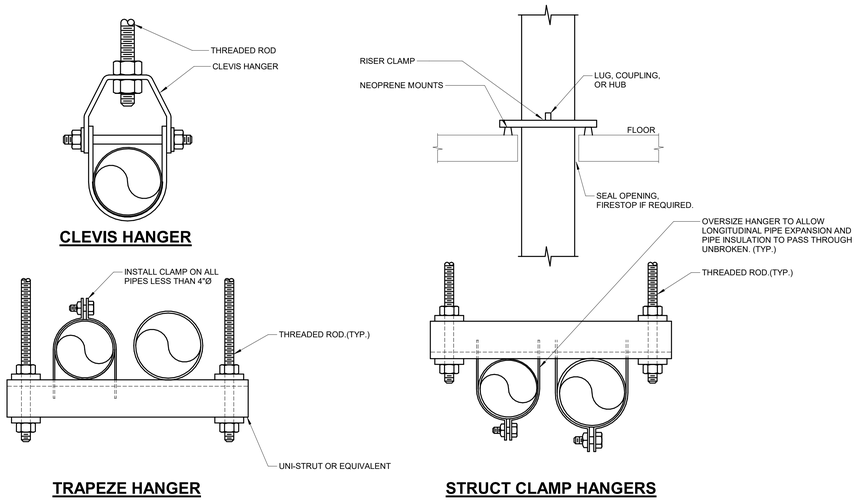
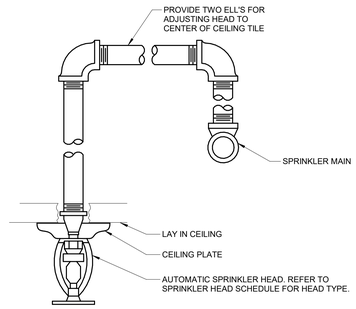


1 PIPE SUPPORT DETAIL

NO SCALE

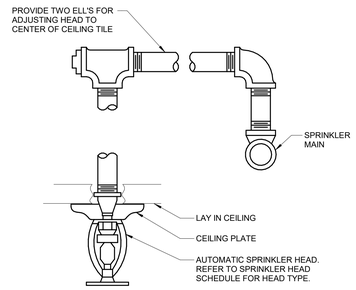
NOTES:

1. REFER TO SPECIFICATION SECTION 21 05 29.



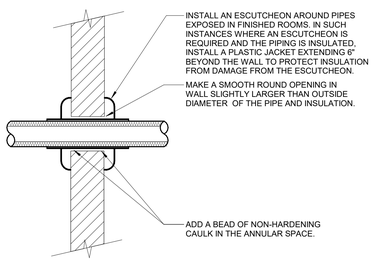
2 SPRINKLER HEAD MOUNTING DETAIL

NO SCALE



3 DRY SPRINKLER HEAD MOUNTING DETAIL

NO SCALE



4 WALL PENETRATION - NON-FIRE RATED

NO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR. SEE SPECIFICATION SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

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IN ASSOCIATION WITH

SHEET TITLE
FIRE PROTECTION DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

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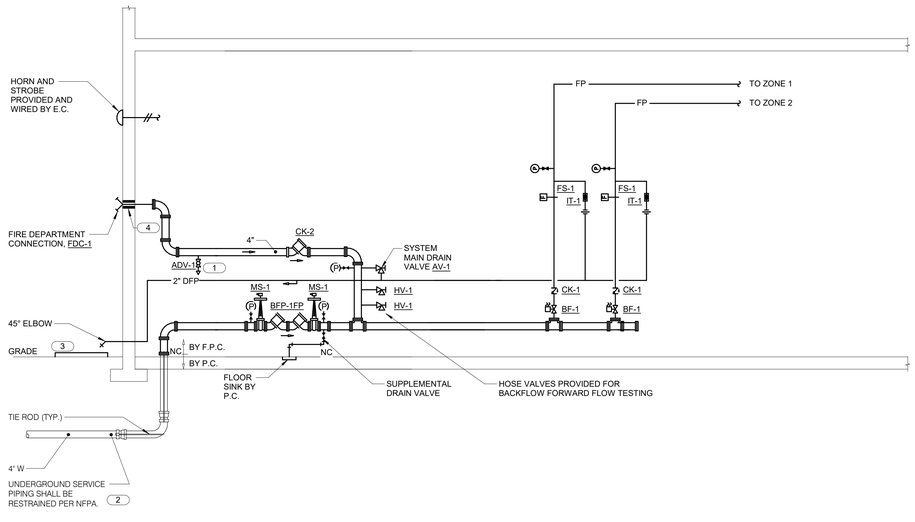
FIRE PROTECTION MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
ADV-1	AUTOMATIC DRIP VALVE, FOR USE ON INLET SIDE OF FDC OR PUMPER CONNECTION, 175 PSI, BRASS OR BRONZE BODY, STAINLESS STEEL OR BERYLLIUM COPPER SPRING AND RETAINING RING, MIN. CLOSING PRESSURE 7 PSI WITH INCREASING PRESSURE, MIN OPENING PRESSURE 5 PSI WITH DECREASING PRESSURE, 1/2" NPT INLET AND 1/4" NPT DRAIN OUTLET. VALVE ORIENTATION SHALL BE INSTALLED ACCORDING TO MFR. RECOMMENDATIONS, UL/FM	VIKING B-1, TYCO AD-2, RELIABLE MODEL C
AV-1	ANGLE VALVE, 1/2" TO 2", 175 PSI, RISING STEM, BRASS/BRONZE BODY, BRASS/BRONZE BONNET, INTEGRAL SEAT, SOFT DISC, HANDWHEEL, THREADED. UL.	UNITED BRASS WORKS 126SUL, NIBCO T-301-W, FPPI 06-800
BF-1	INDICATING BUTTERFLY VALVE, NORMALLY OPEN, 175 PSI WWP, GROOVED TYPE, DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, UL/FM. LUGGED OR WAFER VALVES ARE ACCEPTABLE PROVIDED THEY HAVE THE FEATURES LISTED ABOVE.	NIBCO GD-4765-8N, VICTAULIC SERIES 705, TYCO BFV-300, KENNEDY G300, GLOBE GLR300G, REL-BFG-300
BFP-1FP	DOUBLE CHECK BACKFLOW PREVENTER, LISTED FOR USE IN FIRE PROTECTION SYSTEM, 175 PSI WWP AT 33°F TO 140°F, LEAD FREE, STAINLESS STEEL CONSTRUCTION, SAME SIZE AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, SPRING-LOADED CHECK VALVES, OSY INDICATING BUTTERFLY SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED, 8 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C510-92, ASSE 1015, IAPMO AND SBCCI LISTED. UL/FM MOUNT WITHIN 60" OF FINISHED FLOOR. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED. LISTED FOR HORIZONTAL OR VERTICAL CONFIGURATIONS.	AMES C200, ZURN WILKINS 350AST, APOLLO DCLF 4A
CK-1	SWING CHECK VALVE, 300 PSI WWP, GROOVED/FLANGED TYPE, DUCTILE IRON BODY, STAINLESS STEEL HINGE ASSOCIATED WITH RUBBER FACED CLAPPER, BRASS SEAT RING, ACCESS COVER, 1/2" OR 3/4" TAPPED BOSSES, VALVE LISTED FOR HORIZONTAL OR VERTICAL INSTALLATION, UL/FM. FLANGED TYPE IS ACCEPTABLE PROVIDED VALVE HAS THE FEATURES LISTED ABOVE.	VIKING G-1, TYCO CV-1F
CK-2	SWING CHECK VALVE, MIN. 250 PSI WWP, GROOVED/FLANGED TYPE, DUCTILE IRON BODY, STAINLESS STEEL HINGE ASSOCIATED WITH RUBBER FACED CLAPPER, BRASS SEAT RING, 1/2" TAPPED BOSS UPSTREAM OF SEAT, VALVE LISTED FOR HORIZONTAL OR VERTICAL INSTALLATION, UL/FM.	VIKING M-2, TYCO CV-300B, RELIABLE MODEL G, VICTAULIC 717
FDC-1	EXPOSED TWO WAY FIRE DEPT. INLET CONNECTION, CAST BRASS BODY WITH POLISHED CHROME FINISH, 4" OR 6" OUTLET WITH TWO 2-1/2" INLETS AND DROP CLAPPERS, PIN LUG SWIVELS, STAINLESS STEEL LOCKING CAPS WITH KEYWRENCH LOCK, WALL PLATE WITH SAME FINISH AS BODY LABELED "AUTO SPKR", UL. HOSE THREAD TYPE SHALL MATCH LOCAL FIRE DEPARTMENT REQUIREMENTS. CONTRACTOR SHALL COORDINATE PURCHASE OF LOCKING CAPS AND KEYWRENCH WITH LOCAL FIRE DEPARTMENT.	FDC: POTTER ROEMER 5750 SERIES, ELKHART BRASS MODEL 156, CROKER MODEL 6430/6432, GUARDIAN 6124/6126 LOCKING CAP: KNOX COMPANY 3041
FS-1	FLOW SWITCH - VANE TYPE, 450 PSI, FLOW SENSITIVITY OF 4-10 GPM, TWO SINGLE POLE DOUBLE THROW SWITCHES, PNEUMATIC RETARD ADJUSTABLE FROM 0-90 SECONDS WITH AUTOMATIC RESET, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, UL/FM.	POTTER VSR, SYSTEM SENSOR WFD
HV-1	2-1/2" HOSE VALVE, 300 PSI, ANGLE TYPE, FEMALE x MALE THREADED INLET/OUTLET, CAST BRASS BODY AND TRIM, RISING STEM, RED HAND WHEEL, POLISHED BRASS BODY, UL/FM. 2 1/2" CAP AND CHAIN, PIN LUGS, FINISH TO MATCH VALVE BODY. HOSE THREAD TYPE SHALL MATCH LOCAL FIRE DEPARTMENT REQUIREMENTS.	HOSE VALVE: POTTER ROEMER 4065, ELKHART BRASS U-25-2.5, CROKER 5015, ZURN WILKINS 212-F100, DIXON AV250-I CAP AND CHAIN: POTTER ROEMER 4625, ELKHART 310, CROKER 5713, ZURN WILKINS C/C, DIXON FC250
IT-1	COMBINATION INSPECTOR'S TEST AND DRAIN VALVE, 300 PSI, INTEGRAL SIGHT GLASS, BALL VALVE PLATE INDICATING OFF-TEST-DRAIN POSITIONS, FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, PRESSURE RELIEF VALVE, UL/FM.	AGF M1011A, RELIABLE MODEL TD, VICTAULIC TESTMASTER, GLOBE UTD W/ MODEL ARV PRV
MS-1	OS&Y SUPERVISORY SWITCH, FOR USE ON VALVES 2" TO 12" IN SIZE, TWO SINGLE POLE DOUBLE THROW CONTACTS, NEMA 3R DIE CAST ENCLOSURE WITH CORROSION RESISTANT PARTS, TAMPER RESISTANT, KNOCKOUTS FOR 1/2" CONDUIT, UL/FM.	POTTER OSYSU, SYSTEM SENSOR OSY2

FIRE SPRINKLER USAGE SCHEDULE

NOTES:
1. SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
2. SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.
3. ALL SPRINKLERS SHALL BE UL LISTED.
4. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
5. TAG NAME IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
6. AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
7. SPRINKLERS SHALL HAVE A 3mm QUICK RESPONSE BULB.
8. SPRINKLERS SPECIFIED WITHIN FIRE SPRINKLER USAGE SCHEDULE ARE STANDARD COVERAGE TYPE. EXTENDED COVERAGE SPRINKLERS ARE PERMITTED PROVIDED SPRINKLERS MEET THE REQUIREMENTS OF UL.

AREA TYPE (NOTE 1 & 6)	AREA HAZARD	SPRINKLER				TEMPERATURE RATING	MANUFACTURER & MODEL	NOTES
		TAG NAME (NOTE 4 & 5)	SPRINKLER TYPE	RESPONSE CATEGORY	FINISH			
AREAS WITH FINISHED CEILINGS	SEE PLANS	SPR-1	CONCEALED	QUICK	WHITE	PER NFPA	VIKING, RELIABLE , TYCO, VICTAULIC	NOTES 3, 7, 8
DATA CENTER / ELEVATOR	SEE PLANS	SPR-2	SIDEWALL	QUICK	ROUGH BRASS	PER NFPA	VIKING, RELIABLE , TYCO, VICTAULIC	NOTES 3, 7, 8
SPACES WITHOUT CEILINGS	SEE PLANS	SPR-3	UPRIGHT	QUICK	ROUGH BRASS	PER NFPA	VIKING, RELIABLE , TYCO, VICTAULIC	NOTES 3, 7, 8
VESTIBULE & AREAS INDICATED ON PLAN	SEE PLANS	SPR-4	DRY CONCEALED	QUICK	WHITE	PER NFPA	VIKING, RELIABLE , TYCO, VICTAULIC	NOTES 3, 7, 8



1 **FIRE PROTECTION RISER DIAGRAM**
NO SCALE

#	KEYNOTES
1.	DISCHARGE DOWN OVER NEAREST FLOOR DRAIN.
2.	REFER TO 7/P4.0 FOR UNDERGROUND WATER MAIN ANCHORING DETAIL.
3.	PROVIDE CONCRETE SPLASHBLOCK AT GRADE.
4.	SEAL WALL PENETRATION WATERTIGHT.(TYPICAL)

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IN ASSOCIATION WITH

SHEET TITLE
FIRE PROTECTION SCHEDULES

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

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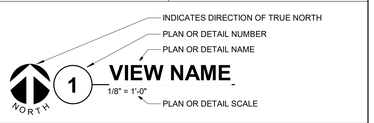
VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2015 EDITION
FIRE CODE:	IFC 2015 EDITION
PLUMBING CODE:	UPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2015 EDITION
ENERGY CONSERVATION CODE:	IECC 2012
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	DAVE INGHRAM
MECHANICAL	KEITH PADGETT
ELECTRICAL	ZACH ROSS
TECHNOLOGY	MATT GRZOVIC

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CW	COLD WATER - POTABLE
D	DRAIN
G	NATURAL GAS
HW140	HOT WATER - POTABLE NUMBER INDICATES TEMP
HWC140	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
PD	PUMPED DISCHARGE
SAN	SANITARY DRAINAGE
ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
STS	STORM DRAINAGE (SECONDARY)
V	VENT
W	SERVICE WATER - POTABLE
	PIPE CONTINUATION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
RD-1 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
GPM	BALANCING VALVE (NUMBER INDICATES GPM)
	CHECK VALVE
	BACKFLOW PREVENTER
	SAFETY/RELIEF VALVE
	VACUUM BREAKER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PUMP
M	METER

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
DI	DUCTILE IRON
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MV	MIXING VALVE
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SK	SINK
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WM	WATER METER
UB	UTILITY BOX
YCO	YARD CLEANOUT

PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
5. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
6. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
7. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.

MECHANICAL GENERAL NOTES:

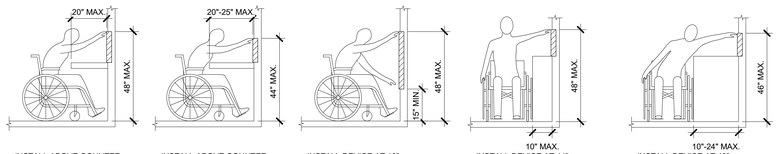
THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING; DUCTWORK, PIPING, ETC.
17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING SLOPE REQUIREMENTS:

BASED ON PLUMBING CODE: UPC-2021

INTERIOR:	
SANITARY WASTE:	1/4" PER FOOT
STORM (GRAVITY):	1/8" PER FOOT
CONDENSATE AND INDIRECT DRAINAGE:	1/8" PER FOOT
SANITARY VENT:	NO SPECIFIC PITCH, PITCH TO FIXTURES
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES



ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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IN ASSOCIATION WITH

SHEET TITLE
PLUMBING COVERSHEET

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
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P0.0

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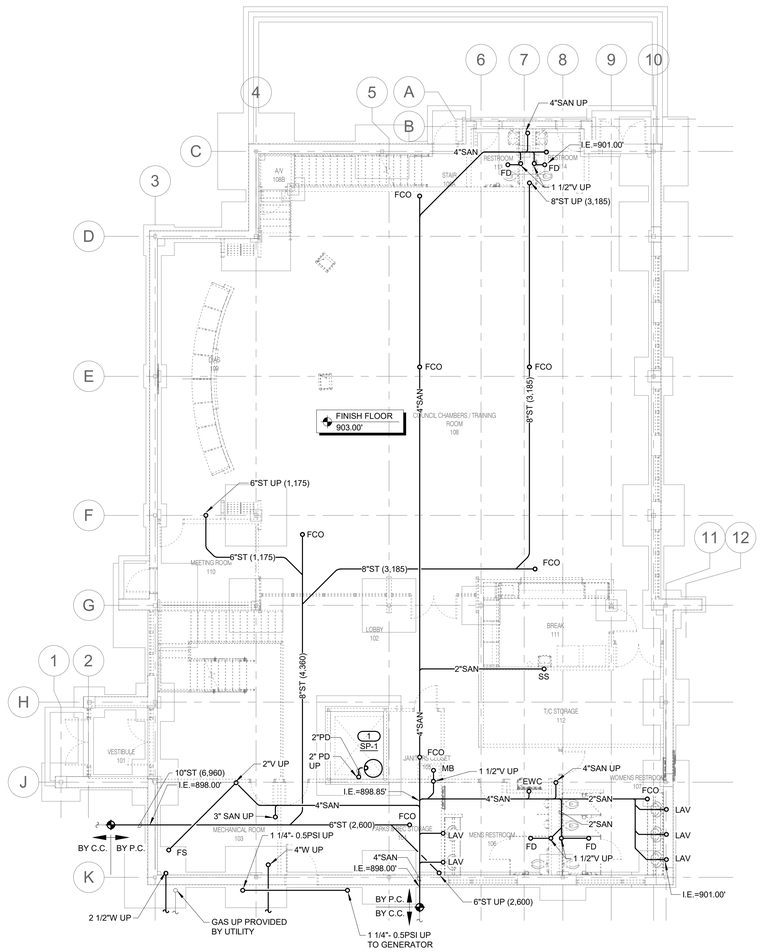
GENERAL SHEET NOTES :

1. REFER TO P0.0 FOR GENERAL SHEET NOTES, ABBREVIATIONS, AND SYMBOLS LIST.
2. REFER TO 6/P4.0 FOR PIPE FOUNDATION AND SLEEVE DETAIL.
3. REFER TO 7/P4.0 FOR UNDERGROUND WATER MAIN ANCHORING DETAIL.

KEYNOTES: #

1. REFER TO 5/P4.0 FOR ELEVATOR PIT SUMP DETAIL.



1 UNDERFLOOR PLAN - PLUMBING

1/8" = 1'-0"

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SHEET TITLE
UNDERFLOOR PLAN - PLUMBING

PROJECT TITLE
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POLK CITY NEW CITY HALL
200 S 4TH STREET
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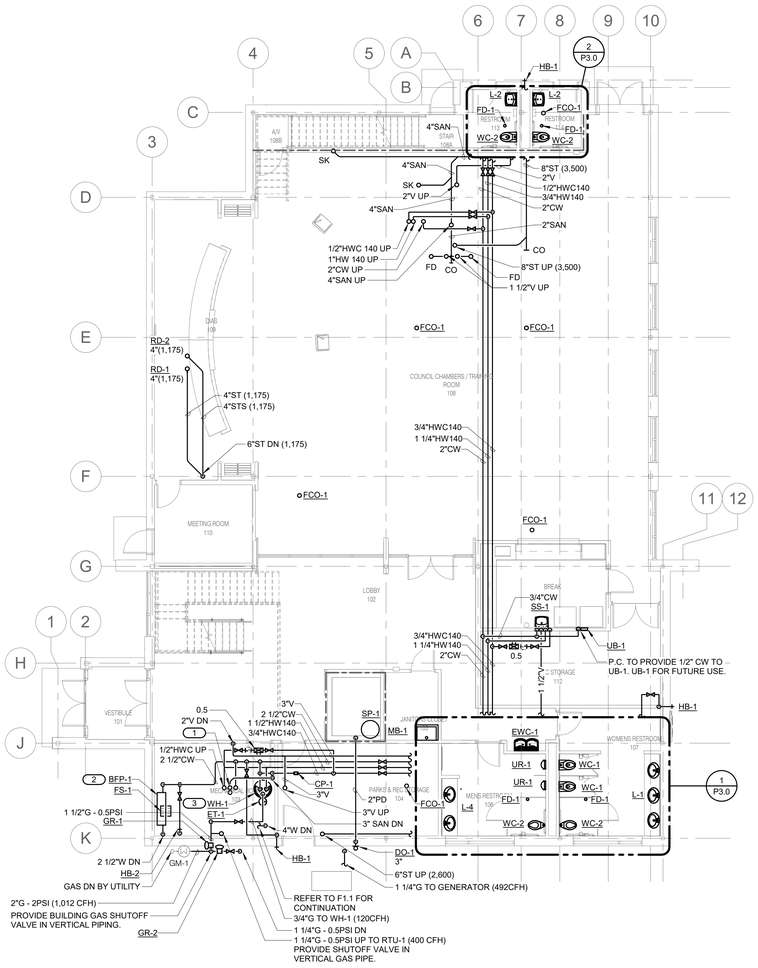
GENERAL SHEET NOTES :

1. REFER TO P0.0 FOR GENERAL SHEET NOTES, ABBREVIATIONS, AND SYMBOLS LIST.
2. REFER TO 2/P4.0 FOR FIXTURE HOT WATER ROUTING DETAIL.
3. REFER TO 2/P4.1 FOR WATER HAMMER ARRESTER LOCATION DETAIL.
4. REFER TO 3/P4.1 FOR WALL PENETRATION - NON-FIRE RATED.

KEYNOTES: (#)

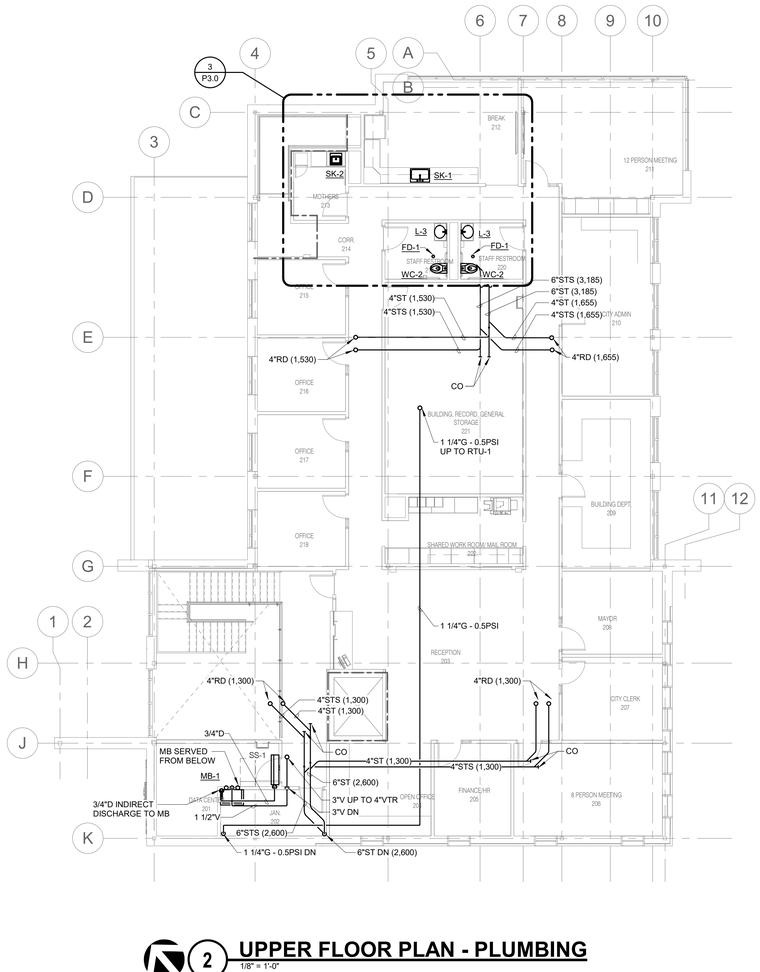
1. 3/4" CW, 3/4" HW, 3" SAN, 1 1/2" V UP SERVING MB.
2. REFER TO 1/P4.0 FOR DOMESTIC WATER ENTRANCE DETAIL.
3. REFER TO 1/P4.1 FOR WATER HEATER DETAIL.



NORTH

1 MAIN FLOOR PLAN - PLUMBING

1/8" = 1'-0"



NORTH

2 UPPER FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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SHEET TITLE
FLOOR PLANS - PLUMBING

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POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

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PROJECT #22006578.00

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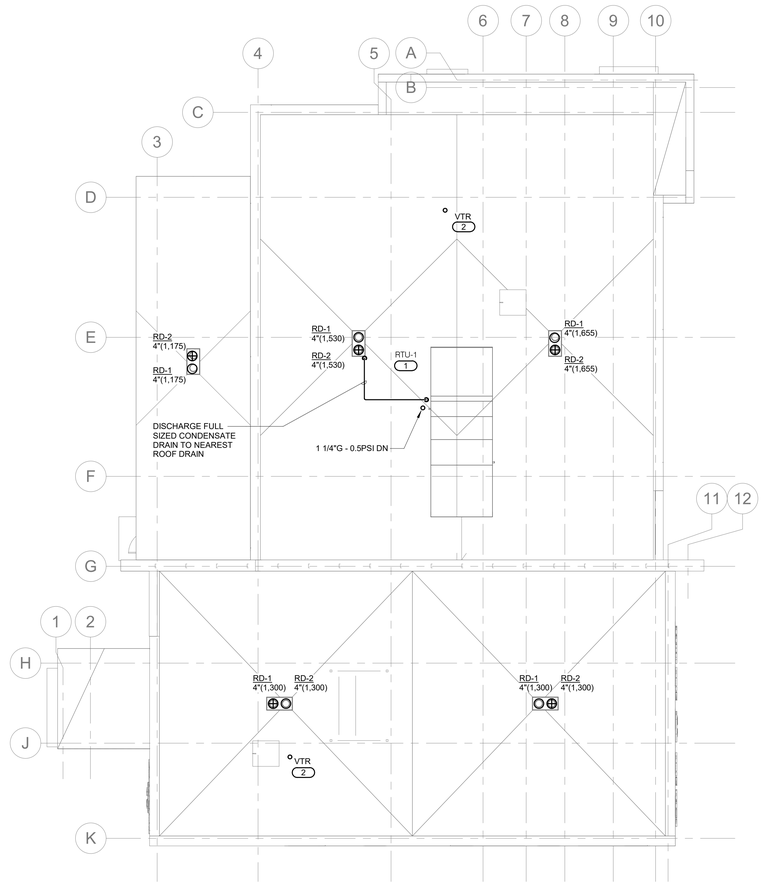
GENERAL SHEET NOTES :

1. REFER TO P0.0 FOR GENERAL SHEET NOTES, ABBREVIATIONS, AND SYMBOLS LIST.
2. REFER TO 8/P4.0 FOR ROOF DRAIN DETAIL.

KEYNOTES: (#)

1. REFER TO 3/P4.0 FOR CONDENSATE TRAP DETAIL.
2. REFER TO 4/P4.0 FOR VENT PIPE FLASHING DETAIL.



NORTH

1 ROOF PLAN - PLUMBING

1/8" = 1'-0"

FEH DESIGN

SIOUX CITY, IA (712) 252-3889
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DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055

IN ASSOCIATION WITH

SHEET TITLE
ROOF PLAN - PLUMBING

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
P2.1

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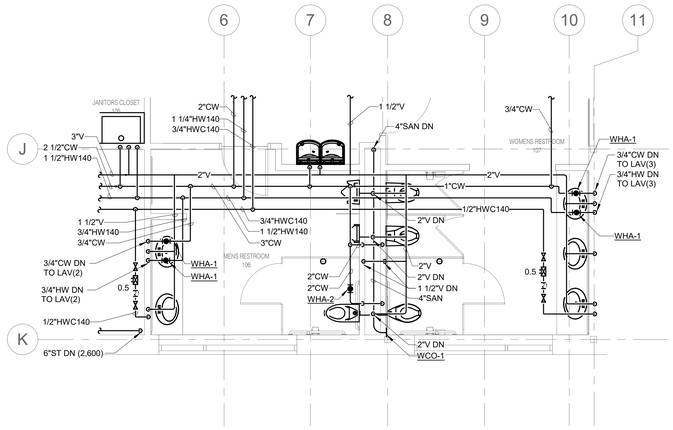
GENERAL SHEET NOTES :

1. REFER TO P0.0 FOR GENERAL SHEET NOTES, ABBREVIATIONS, AND SYMBOLS LIST.
2. REFER TO 2/P4.0 FOR FIXTURE HOT WATER ROUTING DETAIL.
3. REFER TO 2/P4.0 FOR FIXTURE HOT WATER ROUTING DETAIL.
4. REFER TO 2/P4.1 FOR WATER HAMMER ARRESTER LOCATION DETAIL.

KEYNOTES: (#)

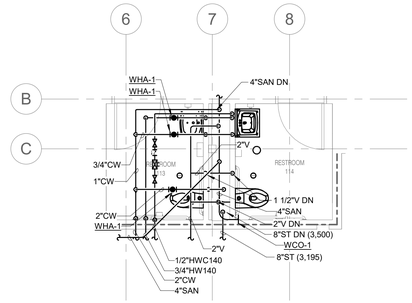
1. PROVIDE A 1/2" CW CONNECTION FOR A COFFEE MAKER. PROVIDE CONNECTION WITH BFP-2. COORDINATE FINAL LOCATION WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
2. SLOPE WATER PIPING FROM SHUT OFF VALVES LOCATED IN THE TRAINING ROOM TO THE PLUMBING FIXTURES TO ALLOW FOR WINTERIZATION OF RESTROOM 113 & 114.



NORTH

1 MAIN FLOOR ENLARGED PLAN - PLUMBING - SOUTHEAST RESTROOMS

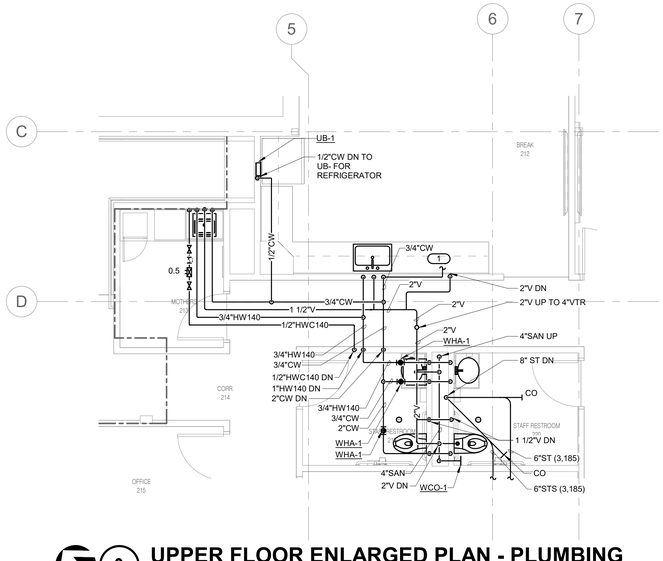
1/4" = 1'-0"



NORTH

2 MAIN FLOOR ENLARGED PLAN - PLUMBING - NORTH RESTROOMS

1/4" = 1'-0"



NORTH

3 UPPER FLOOR ENLARGED PLAN - PLUMBING

1/4" = 1'-0"

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PLUMBING ENLARGED PLANS

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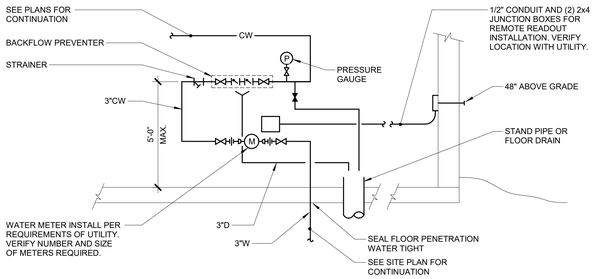
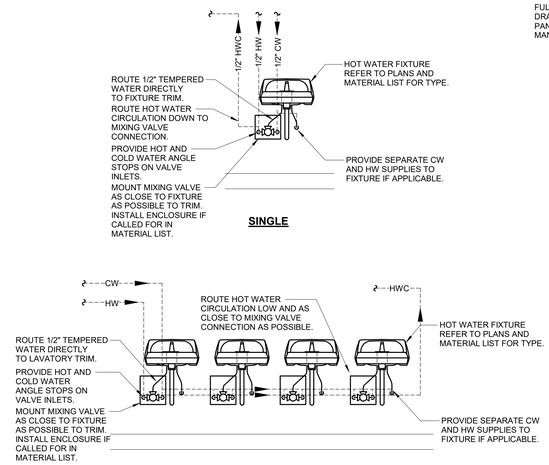
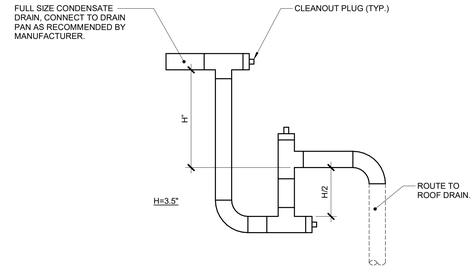


1 DOMESTIC WATER ENTRANCE
NO SCALE

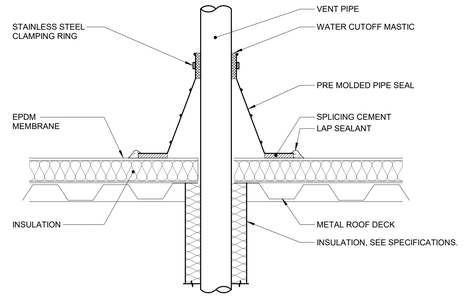


2 FIXTURE HOT WATER ROUTING DETAIL
NO SCALE

LAVATORY SHOWN; DETAIL IS APPLICABLE TO ALL HW FIXTURES AND DEVICES (E.G. LAVATORIES, SINKS, SHOWERS, TUBS, MOP SINKS, LAUNDRY TUBS, ETC.).



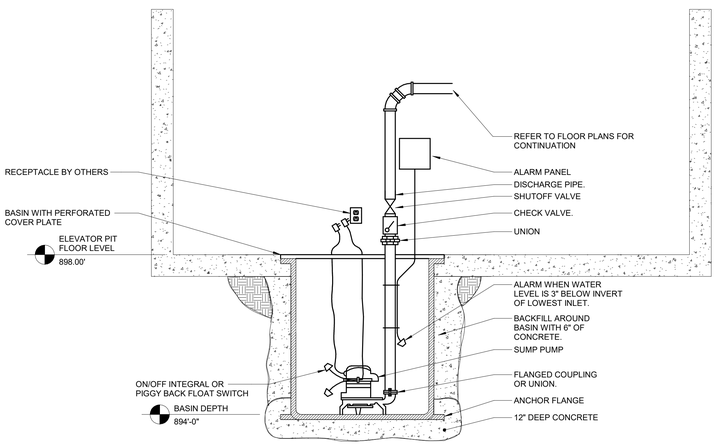
3 CONDENSATE TRAP DETAIL
NO SCALE



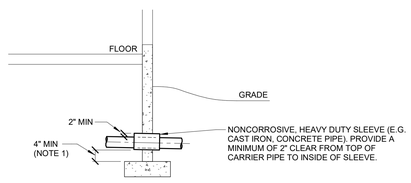
4 VENT PIPE FLASHING
NO SCALE

NOTES:

1. VENT PIPE SHALL BE A MINIMUM OF 3" DIAMETER UNLESS NOTED LARGER ON FLOOR PLANS. INCREASERS, IF REQUIRED TO TRANSITION TO THE LARGER VTR SIZE, MUST BE INSTALLED AT LEAST 12 INCHES BELOW THE THERMAL ENVELOPE OF THE BUILDING.



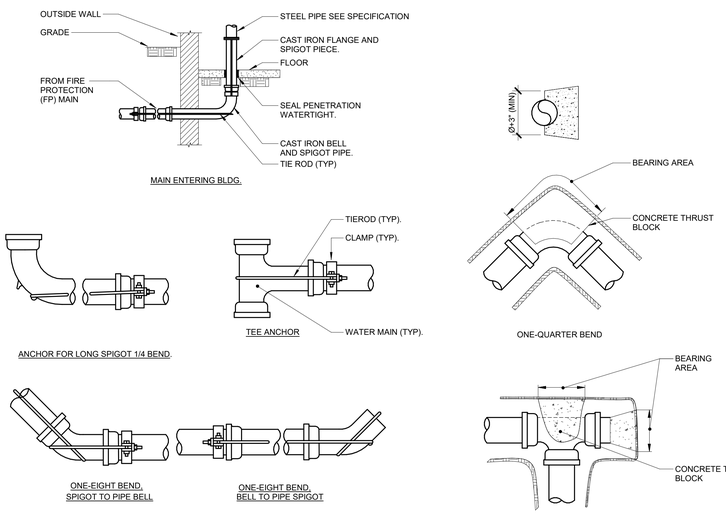
5 ELEVATOR PIT SUMP PUMP DETAIL (PLUG IN)
NO SCALE



6 PIPE FOUNDATION AND SLEEVE DETAIL
NO SCALE

NOTES:

1. STEP FOOTING DOWN AS REQUIRED TO MAINTAIN MINIMUM DIMENSION.



ROD AND CLAMP ANCHORAGE

PIPING NOMINAL SIZE (IN.)	CLAMP SIZE (IN.)	BOLT SIZE (IN.)	WASHER (IN.)		NUMBER OF RODS AND ROD SIZE(IN.) FOR ROD AND CLAMP ANCHORAGE					
					MECHANICAL JOINT			PUSH ON JOINT		
			CAST IRON	STEEL	90° 1/4 BEND	45° 1/8 BEND	TEE, HYDRANT CAP, PLUG	90° 1/4 BEND	45° 1/8 BEND	TEE, HYDRANT CAP, PLUG
4	1/2x2	5/8	5/8x3	1/2x3	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
6					2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
8	5/8x 2-1/2				4 3/4	2 3/4	4 3/4	4 3/4	2 3/4	4 3/4

NOTES:

1. AFTER INSTALLATION, PROTECT TIE RODS, BOLTS, NUTS, WASHERS AND CLAMPS AGAINST CORROSION WITH A HEAVY COAT OF ASPHALT MATERIAL.
2. THE LENGTH OF THE ROD REQUIRED WILL VARY WITH THE PIPE FITTING, AND MUST BE DETERMINED BY FIELD MEASUREMENT. IF THE DISTANCE BETWEEN THE JOINTS IS LESS THAN 12 FEET, EXTEND THE ANCHORAGE TO THE SECOND BELL.

AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS

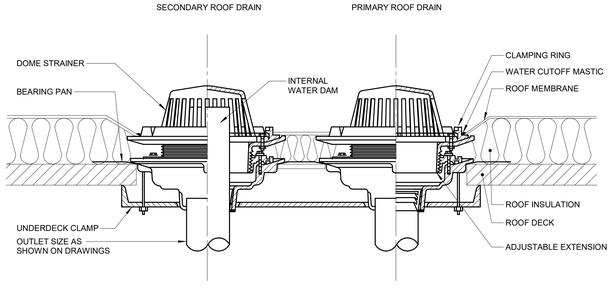
PIPING NOMINAL SIZE (IN.)	MIN. SQ. FT.		
	CAST IRON AND DUCTILE IRON		
	1/4 BEND	1/8 BEND	TEES, PLUGS, CAPS, HYDRANTS
4	3	2	3
6	7	4	5
8	11	6	8

BASIS: 2,000 LB/SQ.FT. SOIL RESISTANCE.
250 PSI WATER PRESSURE.
CORRECTION FACTORS FOR OTHER SOILS:
SOFT CLAY.....4
SAND.....2
SAND&GRAVEL...1.33
SHALE.....0.4

7 UNDERGROUND WATER MAIN ANCHORING DETAIL
NO SCALE

NOTES:

1. BOTH THRUST BLOCKING AND ANCHOR RODS ARE REQUIRED.
2. REFER TO THE GOVERNING CODE AND NFPA 24 FOR ADDITIONAL REQUIREMENTS.



8 ROOF DRAIN DETAIL
NO SCALE

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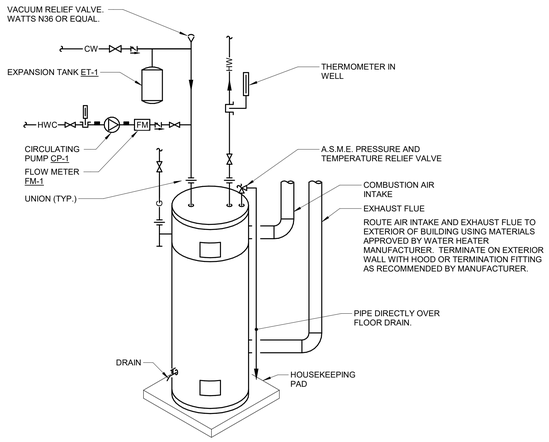
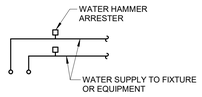


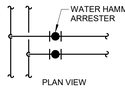
1 WATER HEATER DETAIL
NO SCALE

PROVIDE WATER HAMMER ARRESTER (WHA-#) AT PLUMBING FIXTURES AND QUICK CLOSING VALVES AS INDICATED ON DRAWINGS AND AS RECOMMENDED BY STANDARD PDI-WH201. REFER TO PLUMBING MATERIAL LIST FOR WATER HAMMER ARRESTER DESCRIPTION.

SINGLE / DOUBLE FIXTURE



SECTION VIEW

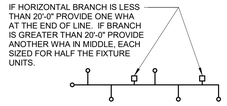


PLAN VIEW

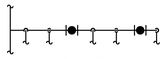
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330

INSTALL WHA'S PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE WHA AS SHOWN PER THE TABLES ABOVE. PROVIDE ACCESSIBILITY TO WHA WITH ACCESS PANEL OR INSTALL ABOVE ACCESSIBLE CEILING.

MULTIPLE FIXTURES



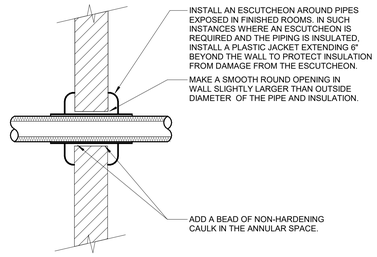
SECTION VIEW



PLAN VIEW

FIXTURE UNIT CALCULATION		
FIXTURE	COLD	HOT
WATER CLOSET (F.V.)	10	--
WATER CLOSET (TANK)	5	--
URINAL	5	--
LAVATORY	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	2	-
KITCHEN SINK	2	2
ICE MAKER / BEVERAGE	1	-

2 WATER HAMMER ARRESTER LOCATION DETAIL
NO SCALE



3 WALL PENETRATION - NON-FIRE RATED
NO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

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PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
BFP-1	BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, GATE STYLE SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED. MOUNT WITHIN 60" OF FINISHED FLOOR. ROUTE DRAIN PIPE FROM AIR GAP FITTING TO FLOOR DRAIN. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.	WATTS (957), APOLLO (RPLF4A), WILKINS (375AST), MIFAB (BEECO BARRACUDA 40 FRP SS)
BFP-2	BACK FLOW PREVENTER - DUAL CHECK, LEAD FREE STAINLESS STEEL BODY, HEAVY DUTY FDA APPROVED RUBBER DIAPHRAGMS, 3/8" SIZE, RATED FOR 150 PSI AT 33°F TO 110°F, APPROVED BY ASSE 1032.	WATTS (SD-2)
CP-1	CIRCULATING PUMP - VARIABLE SPEED, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL AND THERMAL OVERLOAD PROTECTION, ONE SET OF DRY CONTACTS FOR STATUS OUTPUT TO BMS, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, MANUFACTURER PROVIDED PUMP BODY INSULATION KIT, UL LISTED. 3 GPM @ 5 FEET OF HEAD. MOTOR SHALL BE 1/6 HP. ELECTRICAL REQUIREMENTS - 120V, 1 PHASE (HARD-WIRE)	PUMP - B&G (ECOCIRC XL SERIES), GRUNDFOS (MAGNA SERIES), WILO (STRATOS Z SERIES)
DO-1	ROOF DRAIN OUTLET - DOWNSPOUT NOZZLE, ROUND STEEL FRAME WITH PERFORATED ALUMINUM HINGED STRAINER, ARCHITECT TO SELECT FROM STANDARD COLORS, OUTLET SIZE AS LISTED ON DRAWINGS.	FROET (LPS SERIES)
ET-1	EXPANSION TANK - WELDED STEEL CONSTRUCTION, ASME STAMPED, GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR, DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH FEDERAL ACT S.3874. MINIMUM TANK VOLUME TO BE 3 GALLONS MINIMUM ACCEPTING VOLUME TO BE 2 GALLONS TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO 55 PSIG.	EXPANSION TANK - AMTROL (THERMO-TROL ST-[ ][C]), B&G (PTA), ELBI (DTS, DTL), TACO (PAX SERIES), WATTS (DETA), WESSELS (TTA)
EWC-1	ELECTRIC WATER COOLER - WALL HUNG, BI-LEVEL UNITS, ADA COMPLIANT WITH MATCHING STAINLESS STEEL APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH, STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, PLASTIC P-TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874. BOTTLE FILLING STATION - UNIT MOUNTED, STAINLESS STEEL CONSTRUCTION AND FINISH, INTEGRAL DRAIN, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR. UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG. ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS. ELECTRICAL REQUIREMENTS - 1/5 HP MOTOR, 120V-1 PHASE, CORD AND PLUG, PLAIN RECEPTACLE MOUNTED WITHIN EWC LOWER ENCLOSURE, GFCI BREAKER.	ELECTRIC WATER COOLER -ELKAY (LZST), MURDOCK (A172), HALSEY TAYLOR (HTHB-HAC8BLSS-WF)
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP CARPET - ROUND TOP WITH CARPET MARKER.	ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 2" BOTTOM OUTLET, FLASHING COLLAR, SURFACE MEMBRANE CLAMP. TRAP SEAL - 2", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100), SUN (FD1000) TRAP SEAL - SURE SEAL (SS), PROVENT (TRAP GUARD), SMITH (QUAD CLOSE), GREEN DRAIN, MIFAB (MI-GARD)
FS-1	FLOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND GRATE, 12" SQUARE, 4" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH ALUMINUM DOME STRAINER, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP.	ZURN (Z1901), SMITH (3151), WADE (9140), JOSAM (49340A), WATTS (FS-740), SIOUX CHIEF (861-2xXFNVC), SUN (FS2000), MIFAB (FS1730)
GR-1	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 0.5 PSI OUTLET PRESSURE, 520 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF 40 CFH. CONTRACTOR SHALL SIZE AND ROUTE REGULATOR VENTING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A MAXIMUM EQUIVALENT LENGTH OF 60 FEET.	FISHER, ITRON, SENSUS, MAXITROL
GR-2	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 0.5 OUTLET PRESSURE, 492 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF 121 CFH. CONTRACTOR SHALL SIZE AND ROUTE REGULATOR VENTING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A MAXIMUM EQUIVALENT LENGTH OF 60 FEET.	FISHER, ITRON, SENSUS, MAXITROL
HB-1	HOSE BIBB - FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD. WALL CLAMP, KEY OPERATED, ASSE 1019 OR 1052 LISTED AND APPROVED. VERIFY NUMBER OF KEY OPERATORS TO BE PROVIDED WITH OWNER. MOUNT AT 18" ABOVE GRADE UNLESS NOTED OTHERWISE ON DRAWINGS.	PRIER (C-634), WOODFORD (67), WATTS (HY-420), MIFAB (MHY-10), SMITH (5619), WADE (8600), ZURN (Z1310)
HB-2	HOSE BIBB - FOR INDOOR USE, BRASS CONSTRUCTION, STANDARD FINISH, VACUUM BREAKER, 3/4" MALE HOSE THREAD, METAL WHEEL HANDLE, ASSE 1011 LISTED AND APPROVED. MOUNT AT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON DRAWINGS.	PRIER (C-155NP.75), WOODFORD (24), CHICAGO FAUCET (293), ACORN (8121), T&S BRASS (B-0736), MIFAB (MHY-90)
L-1	LAVATORY - WALL MOUNTED MODULAR WASH STATION, HONED FINISH STONE BOWL, 94" LENGTH, THREE WASH STATIONS WITH SINGLE DECK MOUNTED FAUCET HOLES, GRID STRAINER FOR EACH DRAIN LOCATION, TAILPIECE, 1-1/2" 17 GAUGE CAST BRASS P-TRAP. LAVATORY TRIM - WASH BAR, ONE PIECE, CHROME-PLATED, INCLUDES TOUCH-FREE LIQUID SOAP DISPENSER, WATER AND 120V / 20 AMP HAND DRYER. SYSTEM TO PROVIDED WITH MOUNTING, ACCESS PANEL, DRAIN ASSEMBLY, AND PLUMBING CONNECTIONS. MAXIMUM FLOW SHALL BE 0.35 GALLONS PER CYCLE IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 140 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 17 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. VERIFY COLOR SELECTION WITH ARCHITECT.	LAVATORY - WALL MOUNTED, STAINLESS STEEL, 17"x14" O.D. OVAL BOWL, FRONT OVERFLOW. LAVATORY TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, SINGLE WING HANDLES AT 4" CENTERS, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 140 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 17 GAUGE CAST BRASS P-TRAP. COORDINATE OPENINGS REQUIRED IN COUNTERTOP WITH GENERAL CONTRACTOR. FIELD CUT OPENINGS WILL NOT BE ACCEPTABLE.	LAVATORY - KOHLER (K-2609), AMERICAN STANDARD, GERBER, SLOAN, TOTO, ZURN LAVATORY TRIM - DELTA (21C122), AMERICAN STANDARD (5926.140), CHICAGO FAUCET (802), MOEN (8218), SPEAKMAN (SC-3072), SYMMONS (S-250), T&S BRASS (B-0871), ZURN (Z81103-XL) WATTS (LFUSG-B), LEONARD (170D-LF), LAWLER (TMM-1070T), ACORN CONTROLS (ST70), APOLLO (34DLF), POWERS (LFE480), SLOAN (MIX-135-A), SYMMONS (8210CK), WILKINS (ZW3870XLT)
L-4	LAVATORY - WALL MOUNTED MODULAR WASH STATION, HONED FINISH STONE BOWL, 78"LENGTH, TWO WASH STATIONS WITH SINGLE DECK MOUNTED FAUCET HOLES, GRID STRAINER FOR EACH DRAIN LOCATION, TAILPIECE, 1-1/2" 17 GAUGE CAST BRASS P-TRAP. LAVATORY TRIM - WASH BAR, ONE PIECE, CHROME-PLATED, INCLUDES TOUCH-FREE LIQUID SOAP DISPENSER, WATER AND 120V / 20 AMP HAND DRYER. SYSTEM TO PROVIDED WITH MOUNTING, ACCESS PANEL, DRAIN ASSEMBLY, AND PLUMBING CONNECTIONS. MAXIMUM FLOW SHALL BE 0.35 GALLONS PER CYCLE IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 140 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 17 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. VERIFY COLOR SELECTION WITH ARCHITECT.	LAVATORY - BRADLEY (VERGE),SOPHISTONE (PREFAB SOPH-ST), SLOAN (DSG SERIES) LAVATORY TRIM - BRADLEY (LVQD1), OR APPROVED EQUAL. WATTS (LFUSG-B), LEONARD (170D-LF), LAWLER (TMM-1070T), ACORN CONTROLS (ST70), APOLLO (34DLF), POWERS (LFE480), SLOAN (MIX-135-A), SYMMONS (8210CK), WILKINS (ZW3870XLT)
MB-1	MOP BASIN - MOLDED STONE, WHITE WITH BLACK ACCENTS, 36"x24"x10", STAINLESS STEEL DRAIN WITH COMBINATION DOME STRAINER AND LINT BASKET, 3" OUTLET, VINYL BUMPER GUARD ON EXPOSED SIDES. TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, TRAP TWO 24" WIDE STAINLESS STEEL WALL GUARD	MOP BASIN - FIAT (MSB), WILLIAMS (MTB), SWAN (MS), ZURN (Z-1996), MUSTEE (63M) TRIM - DELTA (28C2383), AMERICAN STANDARD (8344.012), CHICAGO FAUCETS (897-CP), MOEN (8124), SPEAKMAN (SC-5812), SYMMONS (S-2490), ZURN (Z841M1-XL)
RD-1	ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z-100), SMITH (1010), WADE (3000), JOSAM (21500), WATTS (RD-300), MIFAB (R1200), SUN (RD4000), FROET (200C)
RD-2	ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, 2" TALL INTERNAL STANDPIPE, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z-100), SMITH (1070), WADE (3000), JOSAM (21500), WATTS (RD-300), MIFAB (R1200)

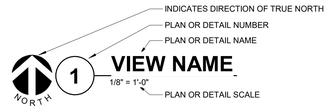
PLUMBING MATERIAL LIST

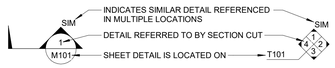
TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
SK-1	SINK - ACCESSIBLE, SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 30" (SIDE-TO-SIDE) x 21" (FRONT-TO-BACK) OVERALL SIZE, 27" x 15" x 6.5" DEEP BOWL. COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER. SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK SWING SPOUT, NOMINAL 8" REACH, AERATOR, 4" WRISTBLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE, SPRAY HOSE WITH LEVER CONTROL. MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - SINK - ELKAY (LRAD/LKAD35), JUST (SL-ADA/J-ADA-35-FSJB-99), FRANKE (ALBS) SINK TRIM - CHICAGO FAUCET (200), AMERICAN STANDARD (7231.000), MOEN (8244), SPEAKMAN (SC-3000 SERIES), ZURN (Z831-XL)
SK-2	SINK - ACCESSIBLE, SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 18" (SIDE-TO-SIDE) x 18" (FRONT-TO-BACK) OVERALL SIZE, 15" x 15" x 6.5" DEEP BOWL. COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK SWING SPOUT, NOMINAL 6" REACH, AERATOR, 4" WRISTBLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE. MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY (LRAD/LKAD18), JUST (SL-ADA/J-ADA-35-FS), FRANKE (ALBS) SINK TRIM - DELTA (27C2), AMERICAN STANDARD (6540), CHICAGO FAUCET (786), SPEAKMAN (SC-3000 SERIES), SYMMONS (S-254), ZURN (Z631-XL)
SP-1	SUMP PUMP - SIMPLEX SUBMERSIBLE, SINGLE-STAGE, SINGLE SEAL, CENTRIFUGAL, END-SUCTION PUMP, STAINLESS STEEL FASTENERS, GUARDS AND HANDLES, UL LISTED. CASING - CAST IRON, INTEGRAL SUPPORT FEET, MINIMUM 2" VERTICAL DISCHARGE. IMPELLER - CAST IRON STATICALLY AND DYNAMICALLY BALANCED, SEMOPEN NONCLOG DESIGN, KEYED AND SECURED TO SHAFT, PASSES 3/4" SOLIDS MINIMUM. SHAFT - STEEL OR STAINLESS STEEL WITH FACTORY SEALED, GREASE-LUBRICATED SLEEVE OR BALL BEARINGS, CARBON AND CERAMIC SEAL. MOTOR - 3450 RPM, OIL OR AIR-FILLED, HERMETICALLY SEALED WITH AUTO THERMAL OVERLOAD PROTECTION, THREE CONDUCTOR WATERPROOF POWER CABLE WITH GROUNDING PLUG, MAXIMUM LENGTH 6 FEET PER THE NATIONAL ELECTRICAL CODE, COORDINATE RECEPTACLE LOCATION WITH ELECTRICAL CONTRACTOR. CAPACITY: 50 GPM, 27 FEET OF HEAD. ELECTRICAL REQUIREMENTS - 1/2 HP, 120V, 1 PHASE CONTROLS - INTEGRAL FLOAT SWITCH OR PIGGY-BACK FLOAT/DIAPHRAM SWITCH. FLOATS SHALL BE MERCURY-FREE. ALARM - ALARM - HIGH WATER ALARM, NEMA 4X ENCLOSURE, MERCURY-FREE FLOAT SWITCH, WATER PROOF CABLE OF SUFFICIENT LENGTH, HORN, STROBE, SILENCING BUTTON, DRY CONTACTS, 6 FOOT POWER CORD, UL LISTED. ELECTRICAL REQUIREMENTS - 120V RECEPTACLE BASIN - FIBERGLASS CONSTRUCTION, 30" DIAMETER x 48" DEEP, ANCHOR FLANGE, PIPE INLET(S) AS SHOWN ON DRAWING, CAST IRON OR STEEL PERFORATED COVER WITH OPENINGS FOR PUMP ACCESS, 2" DISCHARGE PIPE FLANGE(S), CONTROL AND POWER CORDS, INSPECTION PORT, STAINLESS STEEL LIFTING CABLE SECURED TO SIDE OF BASIN.	PUMP - WEIL (1456), ZOELLER (160 SERIES), BARNES (EH-L SERIES), GOULDS (HSU SERIES), STANCOR (SE) ALARM - WEIL (8341), ZOELLER (A-PAK), HYDROMATIC (Q-ALERT), SAME AS PUMP MANUFACTURER BASIN - AK INDUSTRIES, FIBER BASIN INC., SAME AS PUMP MANUFACTURER
SS-1	SERVICE SINK - WALL MOUNTED, 14 GAUGE TYPE 304 STAINLESS STEEL CONSTRUCTION, 25"x20", 12" DEEP BOWL, MOUNTING BRACKETS, 3" CAST IRON FLOOR SUPPORTED P-TRAP. SINK TRIM - TWO HANDLE EXPOSED MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT, INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS ON INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874.	SINK - JUST (A-18665), ELKAY (ESS) TRIM - DELTA (28C2), AMERICAN STANDARD (8344.012), MOEN (8124), SPEAKMAN (SC-5812), ZURN (Z-841M1-XL)
UB-1	UTILITY BOX - UNPAINTED GALVANIZED STEEL OR WHITE PAINTED STEEL ENCLOSURE, MATCHING FACEPLATE, ANGLE VALVE WITH 1/4" COMPRESSION OUTLET, INTREGAL WATER HAMMER ARRESTOR. PROVIDE A 6 FOOT STAINLESS STEEL FLEXIBLE HOSE FOR CONNECTION TO EQUIPMENT.	GUY GRAY (BIM875AB), OATEY (39140 WITH 38686 FACEPLATE)
UR-1	URINAL - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET. FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.0 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY. CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES. MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 17" (MAXIMUM) ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. FLUSH HANDLE SHALL BE AT 44" (MAXIMUM) ABOVE FLOOR AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	URINAL - AMERICAN STANDARD (6590.001), KOHLER (K-4991-ET), SLOAN (SU-1006/SU-1009), GERBER (27-780), TOTO (UT447), ZURN (Z5750) FLUSH VALVE - ZURN (Z6003AV), SLOAN (ROYAL 186), AMERICAN STANDARD (6045.101), KOHLER (K13518-CP), DELANY (451), TOTO (TMU1NNC-12), AMTC (MF-700-U10)
WC-1	WATER CLOSET - WALL MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD. FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.6 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, CHLORAMINE RESISTANT MATERIALS, ADA COMPLIANT, 3 YEAR WARRANTY. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS. MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE AT 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	WATER CLOSET - AMERICAN STANDARD (2257.101), GERBER (25-030), KOHLER (K-84325), SLOAN (ST-2053), TOTO (CT708), ZURN (Z5610) FLUSH VALVE - ZURN (Z6000AV), SLOAN (111), AMERICAN STANDARD (6047.161), KOHLER (K-13516-CP), TOTO (TMT1NNC-32), DELANY (402), AMTC (MF-700-T16) SEAT - BEMIS (1655SSCT), CHURCH (9500C), BENEKE (533), KOHLER (K-4666-C), OLSONITE (95), CENTOCO (550STSCCSS-001), SAME AS WATER CLOSET MANUFACTURER
WC-2	WATER CLOSET - ACCESSIBLE, WALL MOUNTED, FLUSH V

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED. SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2015 EDITION
FIRE CODE:	IFC 2015 EDITION
PLUMBING CODE:	UPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2015 EDITION
ENERGY CONSERVATION CODE:	IECC 2012
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	DAVE INGHRAM
MECHANICAL	KEITH PADGETT
ELECTRICAL	ZACH ROSS
TECHNOLOGY	MATT GRZOVIC

VENTILATION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
R	RISE IN DIRECTION OF AIR FLOW
D	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
SD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
###	TERMINAL AIR BOX (REFER TO SCHEDULE)
###	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
	DIFFERENTIAL PRESSURE SENSOR
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
H	HUMIDISTAT SENSOR
H	HUMIDISTAT/SENSOR (DUCT MOUNTED)
O	OCCUPANCY SENSOR
P	PRESSURE SENSOR/MONITOR
P	PRESSURE SENSOR (DUCT MOUNTED)
T	THERMOSTAT/SENSOR
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

VENTILATION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CFSD	CONTROL/FIRE/SMOKE DAMPER
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTES

VENTILATION GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07"W.C. PER 100' OF DUCTWORK.
2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
3. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
4. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

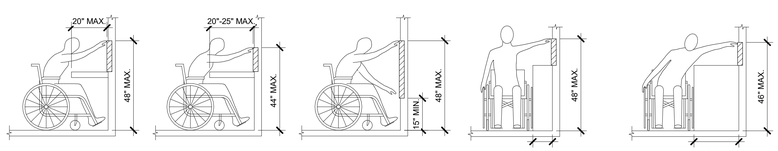
MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING; DUCTWORK, PIPING, ETC.
17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

TAB POST-CONSTRUCTION NOTES:

1. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
2. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.



INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055

IN ASSOCIATION WITH

SHEET TITLE
MECHANICAL COVERSHEET

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
M0.0

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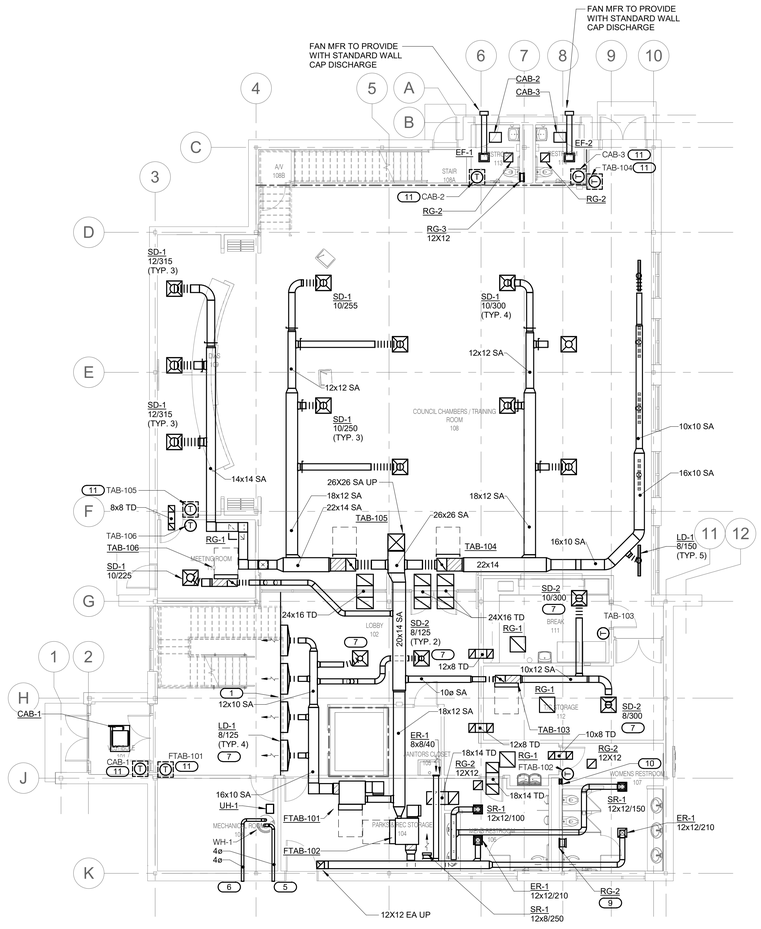
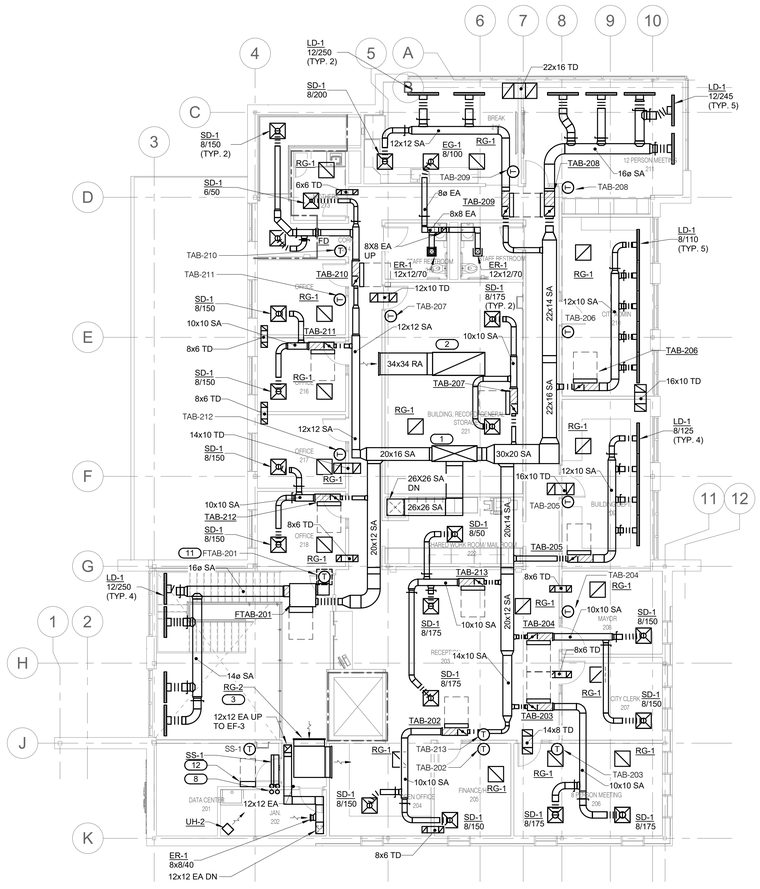


1 MAIN FLOOR PLAN - VENTILATION

1/8" = 1'-0"



2 UPPER FLOOR PLAN - VENTILATION

1/8" = 1'-0"

GENERAL VENTILATION NOTES :

1. REFER TO M0.0 FOR GENERAL SHEET NOTES, ABBREVIATIONS, AND SYMBOLS LIST.
2. THE SIZE OF BRANCH DUCTS TO TERMINAL AIR BOXES AND AIR OUTLETS SHALL MATCH THEIR INLET SIZE UNLESS NOTED OTHERWISE.
3. ALL RADIUS ELBOWS SHALL BE TYPE RE1 WITHOUT VANES (CENTER RADIUS R/W=1.0). EXCEPTION: RADIUS ELBOWS LABELED "RE3" SHALL BE TYPE RE3 WITH VANES (CENTER RADIUS R/W=0.6). REFER TO SPECIFICATIONS AND DETAIL 1/M4.0 FOR ADDITIONAL REQUIREMENTS.
4. REFER TO 2/M4.0 FOR DUCT REINFORCEMENT DETAIL.
5. REFER TO 3/M4.0 FOR FIRE DAMPER THROUGH WALL DETAIL.
6. REFER TO 5/M4.0 FOR CEILING RETURN GRILLE CANOPY DETAIL.
7. REFER TO 6/M4.0 FOR BRANCH CONNECTIONS DETAIL.
8. REFER TO 7/M4.0 FOR DIFFUSER CONNECTION DETAIL.
9. REFER TO 8/M4.0 FOR TRANSFER DUCT DETAIL.
10. REFER TO 1/M4.1 FOR TERMINAL AIR BOX DETAIL.
11. REFER TO 3/M4.1 FOR TERMINAL AIR BOX - FAN POWERED DETAIL.
12. REFER TO 6/M4.1 FOR FIRE DAMPER DETAIL.
13. REFER TO 7/M4.1 FOR WALL PENETRATION - NON-FIRE RATED.

KEYNOTES: (#)

1. 71X25 SA UP TO RTU-1.
2. 82X36 RA UP TO RTU-1.
3. 48X24 TD AND GRILLE LOCATED ABOVE CEILING.
4. PROVIDE A CONTINUOUS LINEAR SUPPLY DIFFUSER LOOK AT THIS LOCATION.
5. 4" WH SIDEWALL INTAKE VENT TERMINATION. PROVIDE WITH 45° DOWNTURN ELBOW.
6. 4" WH SIDEWALL EXHAUST VENT TERMINATION. PROVIDE WITH 45° DOWNTURN ELBOW.
7. DIFFUSER IS LOCATED IN A GYP CEILING. DIFFUSERS MFR TO PROVIDE BALANCING DAMPER THAT CAN BE ACCESSED THROUGH THE FACE OF THE DIFFUSER AS SCHEDULED.
8. SS REFRIGERANT PIPING UP. REFER TO 1/M2.1 FOR CONTINUATION.
9. 12X12 TRANSFER LOCATED ABOVE CEILING FOR ALLOWING WARM AIR IN PLUMBING CHASE.
10. 6X12 RG-2 TRANSFER GRILLE LOCATED AT APPROXIMATELY 1'-0" A.F.F.
11. M.C. TO PROVIDE LOCKABLE PLASTIC CASE FOR THERMOSTAT.
12. PACKAGED RTU,TAB AND EXHAUST FAN CONTROL PANEL PROVIDED BY RTU MANUFACTURER.

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IN ASSOCIATION WITH

SHEET TITLE
FLOOR PLANS - VENTILATION

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL

200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

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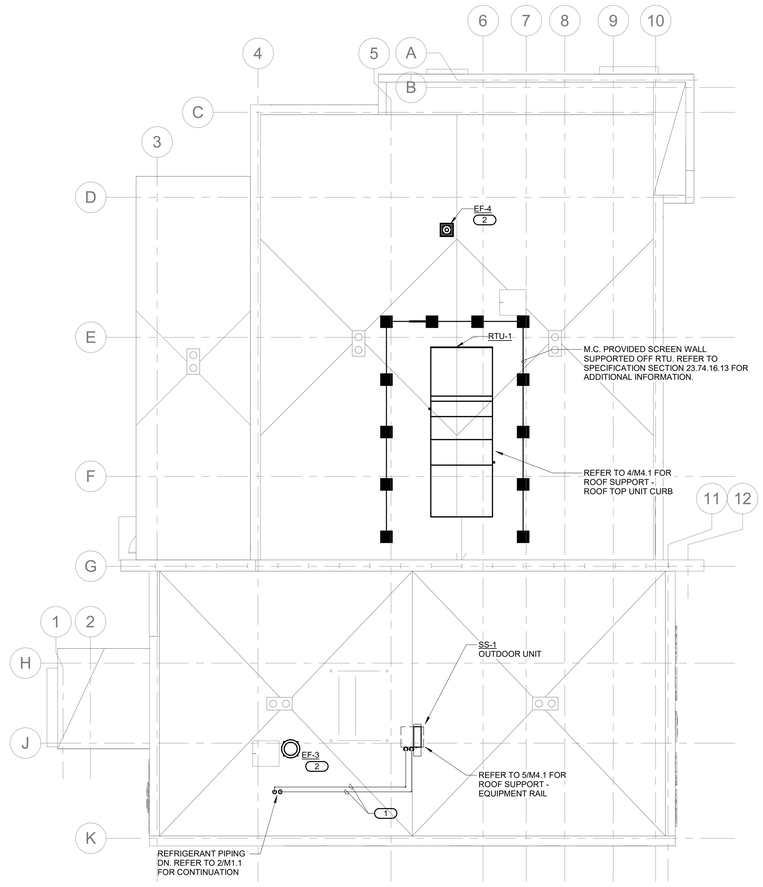
GENERAL VENTILATION NOTES :

1. REFER TO M0.0 FOR GENERAL SHEET NOTES, ABBREVIATIONS, AND SYMBOLS LIST.

KEYNOTES: (#)

1. SIZE AND ROUTE SPLIT SYSTEM REFRIGERATION PIPING PER MANUFACTUERER'S RECOMENDATIONS. REFER TO 4/M4.0 ROOF SUPPORT - EXPOSED PIPING PILLOW BLOCK.
2. REFER TO 2/M4.1 FOR ROOF SUPPORT - FAN CURB DETAIL.



NORTH

1 ROOF PLAN - VENTILATION

1/8" = 1'-0"

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SHEET TITLE
ROOF PLAN - VENTILATION

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

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PROJECT #22006578.00

PROJECT NUMBER
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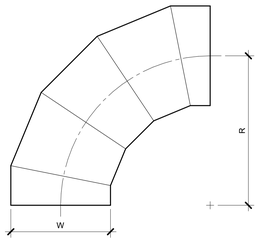
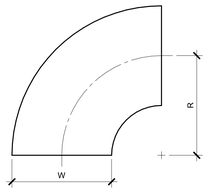
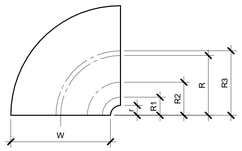


OVAL / ROUND
RADIUS ELBOW
SMOOTH OR 5 GORE (MINIMUM)
R/W = 1.5 (MINIMUM)

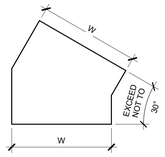


RECTANGULAR
RADIUS ELBOW
TYPE RE1
R/W = 1.0 (MINIMUM)
R/W < 1.0 SHALL BE TYPE RE3



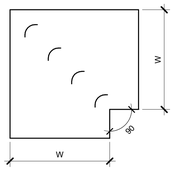
RECTANGULAR
RADIUS ELBOW WITH VANES
TYPE RE3

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.

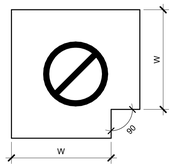


RECTANGULAR
MITERED ELBOW
TYPE RE6

USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

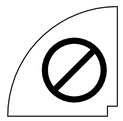


RECTANGULAR
MITERED ELBOW
WITH VANES
TYPE RE2



RECTANGULAR / OVAL / ROUND
MITERED ELBOW
WITHOUT VANES
TYPE RE4

NOT ALLOWED



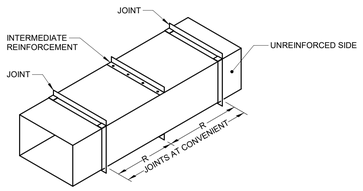
RECTANGULAR
RADIUS ELBOW WITH
SQUARE THROAT

NOT ALLOWED

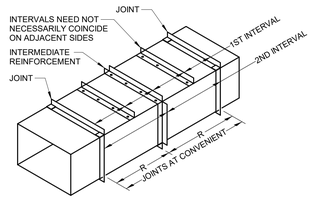
1 ELBOW CONSTRUCTION
NO SCALE

NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.



DUCT REINFORCED ON TWO SIDES

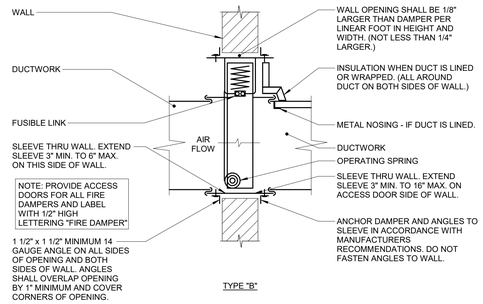


DUCT REINFORCED ON ALL SIDES

2 DUCT REINFORCEMENT DETAIL
NO SCALE

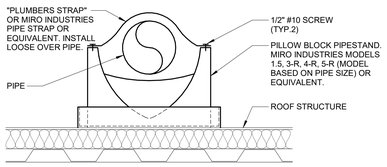
NOTES:

1. 'R' IS AN ALLOWABLE REINFORCEMENT INTERVAL.
2. TOP AND BOTTOM JOINTS MUST QUALIFY AS REINFORCEMENT
3. DUCT SIZES THAT ARE 19 INCHES (483 mm) AND OVER ARE 20 GAGE (1.00 mm) OR LESS, WITH MORE THAN 10 SQUARE FEET (0.93 SQUARE METER) OF UNBRACED PANEL AREA, SHALL BE CROSSBROKEN OR BEADED UNLESS THEY ARE LINED OR EXTERNALLY INSULATED. DUCTS THAT ARE OF HEAVIER GAGE, SMALLER DIMENSIONS, AND SMALLER PANEL AREA AND THOSE THAT ARE LINED OR EXTERNALLY INSULATED ARE NOT REQUIRED TO HAVE CROSSBREAKING OR BEADING.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



TYPE "B"

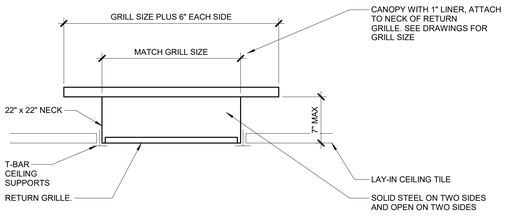
3 FIRE DAMPER THRU WALL DETAIL (TYPE B)
NO SCALE



4 ROOF SUPPORT - EXPOSED PIPING PILLOW BLOCK
NO SCALE

NOTES:

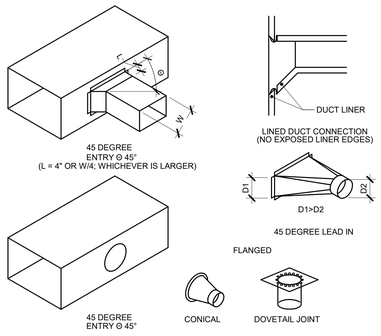
1. SPACE STANDS AS REQUIRED TO MEET MANUFACTURERS RATED CAPACITIES.
2. COORDINATE PIPESTAND LOCATIONS WITH G.C.
3. PROVIDE EPDM PAD TO PROTECT ROOF IF REQUIRED BY ROOFING MANUFACTURER.
4. MIRO INDUSTRIES (800)768-6978.



5 CEILING RETURN GRILLE CANOPY
NO SCALE

NOTES:

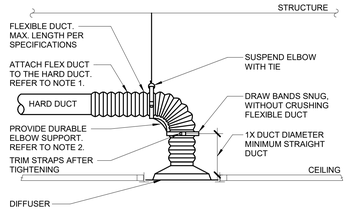
1. BASIS OF DESIGN FOR RETURN AIR CANOPY IS PRICE MODEL RAC.
2. THIS DETAIL APPLIES TO ALL RG-1



6 BRANCH CONNECTIONS
NO SCALE

NOTES:

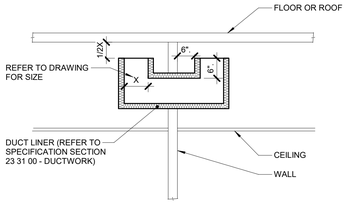
1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



7 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)
NO SCALE

NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.



8 TRANSFER DUCT DETAIL (ENDS UP)
NO SCALE

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SIOUX CITY, IA (712) 252-3889
DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055

IN ASSOCIATION WITH

SHEET TITLE
MECHANICAL DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

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PROJECT #22006578.00

PROJECT NUMBER
2022213.02

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M4.0

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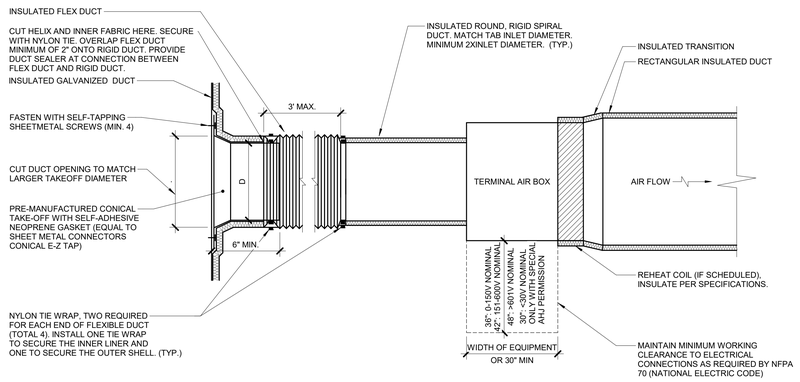
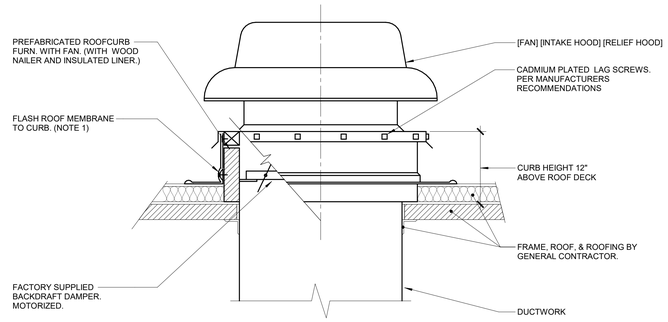


1 TERMINAL AIR BOX - SINGLE DUCT - WRAPPED

NO SCALE

NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.
2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER UPSTREAM.
4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.

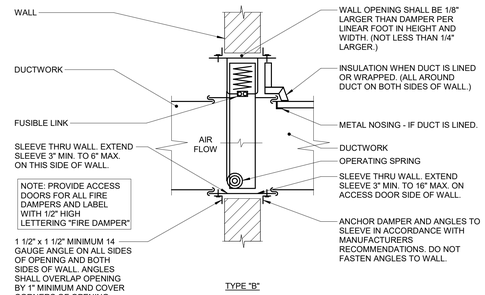


2 ROOF SUPPORT - FAN CURB

NO SCALE

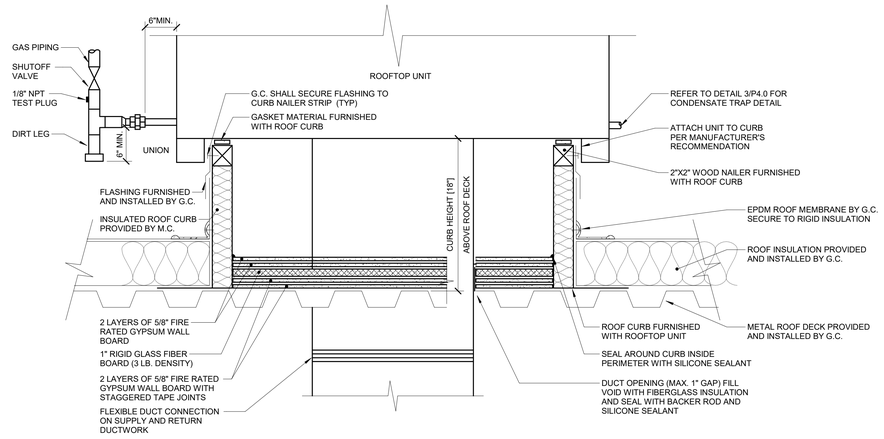
NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOFING MANUFACTURERS RECOMMENDATIONS.



6 FIRE DAMPER THRU WALL DETAIL (TYPE B)

NO SCALE

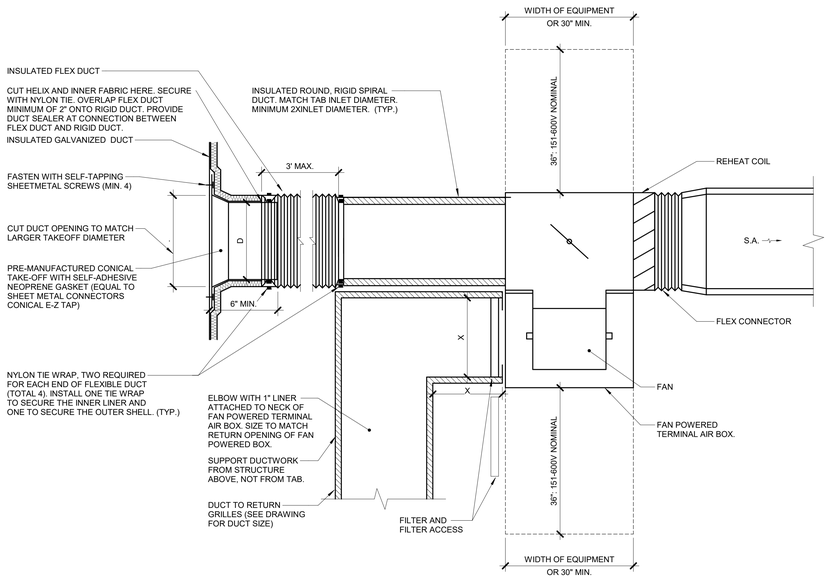


4 ROOF SUPPORT - ROOF TOP UNIT CURB

NO SCALE

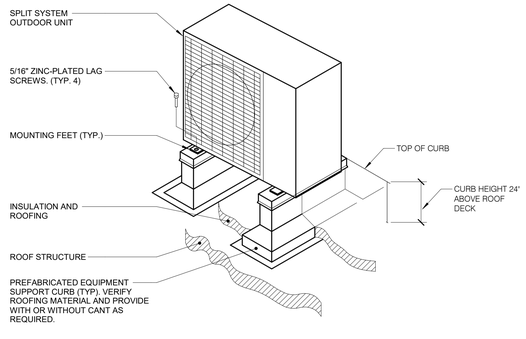
NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12" CLEARANCE ABOVE INSULATION.



3 TERMINAL AIR BOX - FAN POWERED PARALLEL - WRAPPED

NO SCALE

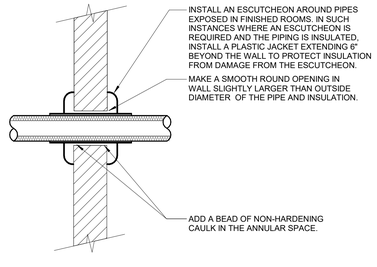


5 ROOF SUPPORT - EQUIPMENT RAIL

NO SCALE

NOTES:

1. VERIFY DIAMETER OF ANCHOR BOLT REQUIRED TO FIT WITHIN MOUNTING FEET ANCHOR HOLES.



7 WALL PENETRATION - NON-FIRE RATED

NO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

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FEH DESIGN
SIOUX CITY, IA (712) 252-3889
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SHEET TITLE
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PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
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SHEET
M4.1

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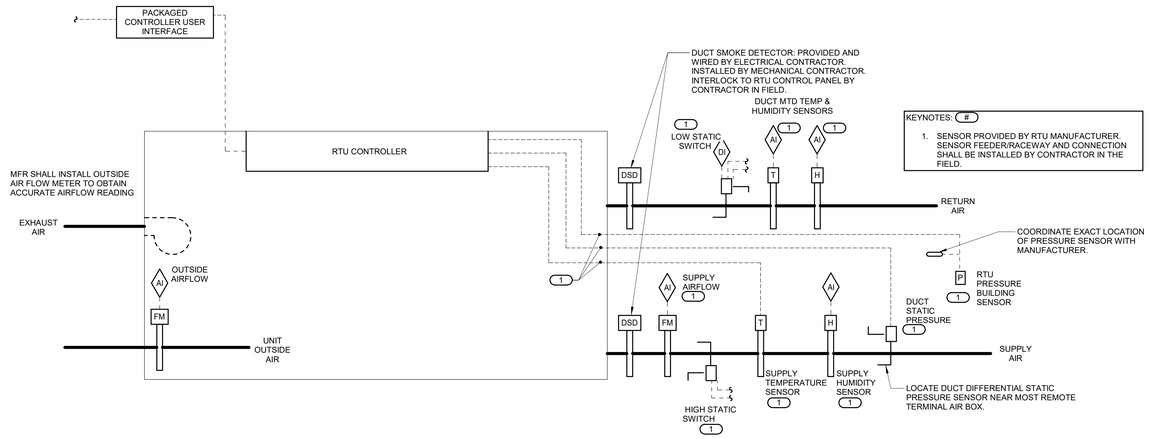


KEYNOTES: (#)

1. SENSOR PROVIDED BY RTU MANUFACTURER. SENSOR FEEDER/RACEWAY AND CONNECTION SHALL BE INSTALLED BY CONTRACTOR IN THE FIELD.

CONTROLS PROVIDED BY PACKED EQUIPMENT MANUFACTURER:

PACKAGE ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 11 FOR A DESCRIPTION OF THE RTU AND THE CONTROLS PROVIDED BY THE RTU MANUFACTURER. ROOFTOP CONTROL SHALL BE ABLE TO CONTROL RTU, ASSOCIATED TERMINAL AIR BOXES, FAN POWERED TERMINAL AIR BOXES AND EXHAUST FANS.

SUPPLY FAN CONTROL:
RTU CONTROLLER SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT AS MEASURED BY STATIC PRESSURE TRANSMITTER. FMCS SHALL RESET SUPPLY DUCT STATIC PRESSURE SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE SUPPLY TAB DAMPER 95% (ADJ.) OPEN. FMCS SHALL UTILIZE COMMAND TO ALL SUPPLY TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE

EXHAUST FAN CONTROL:
RTU CONTROLLER SHALL MONITOR BUILDING PRESSURE SIGNAL. MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN +0.05" (ADJ.) W.C..

VENTILATION CONTROL:
WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN MINIMUM OUTSIDE AIR CFM BASED ON QUANTITY OF AIR FROM UNIT MOUNTED AIRFLOW MEASURING STATION.

SUPPLY AIR TEMPERATURE CONTROL:
DISCHARGE AIR TEMPERATURE SHALL BE 55°F (ADJ.). WHENEVER THE SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- MODULATE GAS BURNER OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL
- THE COMPRESSORS SHALL BE ENABLED AND MFR SHALL MODULATE COMPRESSOR CAPACITY AS REQUIRED TO MAINTAIN SET POINT.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ) BELOW SETPOINT, MFR SHALL MODULATE COMPRESSORS OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL, MODULATE GAS BURNER AS REQUIRED TO MAINTAIN SET POINT.

SEND AN ALARM TO THE CONTROLLER INTERFACE FOR THE FOLLOWING:
- SUPPLY FAN FAULT (AIRFLOW, CURRENT OR VFD)
- EXHAUST FAN FAULT (AIRFLOW, CURRENT OR VFD)
- DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ.)
- IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- EMERGENCY STOP

WHENEVER RTU IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:
- SUPPLY FAN AND EXHAUST FAN SHALL STOP.
- OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING AND COOLING SHALL BE DISABLED.
- OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN

UN-OCCUPIED MODE OPERATION:
- OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.

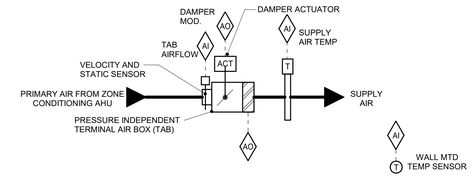
EMERGENCY OPERATION:
- DURING EMERGENCY OPERATION THE RTU SHALL MAINTAIN A SPACE TEMPERATURE OF 65°F BY USING GAS HEAT. EMERGENCY OPERATION WILL NOT CONTROL TAB ELECTRIC REHEAT OR COOLING. EMERGENCY OPERATION IS INDEED TO KEEP THE SPACE HEATED TO AVOID FREEZING PIPES.

1 PACKAGED ROOFTOP UNIT CONTROL MULTI-ZONE VAV WITH EXHAUST FAN - RTU-A
NO SCALE

FAN INTERLOCK SCHEDULE		
SYSTEM	INTERLOCKED EXHAUST FANS	REMARKS
RTU-1	EF-3, EF-4	NOTE 1

NOTES:

1. **INTERLOCK EXHAUST FAN OPERATION THROUGH THE FMCS WITH RESPECTIVE AHU IN ACCORDANCE WITH AHU SEQUENCE OF OPERATION.**



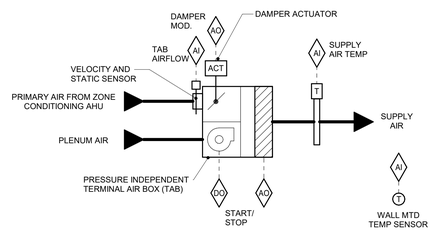
SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER AND TAB ELECTRIC REHEAT COIL TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 5°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL SHALL BE DE-ENERGIZED.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION PER THE TAB SCHEDULE. THE REHEAT COIL SHALL REMAIN DE-ENERGIZED.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE ELECTRIC REHEAT COIL AND TAB SHALL MODULATE OPEN IN UNISON TO MAINTAIN SPACE SETPOINT UNTIL TAB AIR FLOW REACHES ITS MAXIMUM HEATING SETTING.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- IF THE HIGH TEMPERATURE SAFETY DEVICE EXCEEDS MANUFACTURER'S SETPOINT, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE.

2 TAB CONTROL W/ ELECTRIC REHEAT - TAB-A
NO SCALE



SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER, TAB ELECTRIC REHEAT COIL, AND FAN TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 5°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL SHALL BE DE-ENERGIZED AND THE SUPPLY FAN SHALL BE OFF.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION PER THE TAB SCHEDULE. THE REHEAT COIL SHALL BE DE-ENERGIZED AND THE SUPPLY FAN SHALL BE OFF.
- UPON A FURTHER FALL IN SPACE TEMPERATURE THE SUPPLY FAN SHALL BE ENERGIZED. THE REHEAT COIL SHALL REMAIN DE-ENERGIZED AND THE TAB DAMPER SHALL REMAIN AT MINIMUM SCHEDULED CFM POSITION PER THE TAB SCHEDULE.
- ON A FURTHER REDUCTION THE REHEAT COIL SHALL BE ENERGIZED AND MODULATE TO MAINTAIN SPACE SETPOINT.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

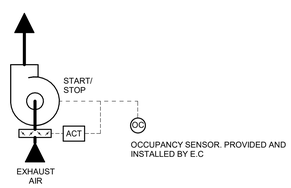
UNOCCUPIED MODE:

UPON A FALL IN SPACE TEMPERATURE BELOW UNOCCUPIED SETPOINT, THE PARALLEL FAN MOTOR SHALL BE ENERGIZED AND THE ELECTRIC REHEAT SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- IF THE AIR FLOW SWITCH DOES NOT PROVE OPERATION, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE.
- IF THE HIGH TEMPERATURE SAFETY DEVICE EXCEEDS MANUFACTURER'S SETPOINT, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE.
- WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION AT THE AHU SERVING FAN POWERED BOXES, ALL FAN POWERED BOX SUPPLY FANS SHALL STOP.

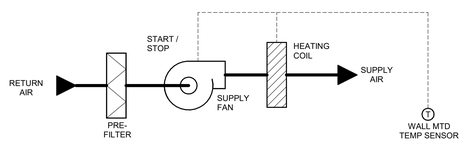
3 TAB CONTROL PARALLEL FAN POWERED - W/ ELECTRIC REHEAT - TAB-B
NO SCALE



SEQUENCE OF OPERATION:
FAN SHALL BE CONTROLLED BY OCCUPANCY SENSORS PROVIDED BY E.C. WHEN ANY OCCUPANCY SENSOR IS ACTIVATED THE FAN SHALL BE ENABLED.

2-POSITION DAMPER SHALL FULLY OPEN WHEN FAN IS ENERGIZED. WHEN FAN IS DE-ENERGIZED, 2-POSITION DAMPER SHALL FULLY CLOSE.

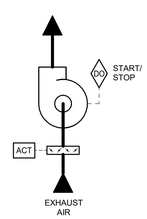
4 EXHAUST FAN CONTROL - OCC. SENSOR - FAN-A
NO SCALE



SEQUENCE OF OPERATION:

THE CABINET HEATER SHALL BE FURNISHED WITH A UNIT MOUNTED FAN SPEED SELECTOR SWITCH (OFF-HIGH-MED-LOW). THE UNIT SHALL MAINTAIN A SPACE TEMPERATURE OF NO MORE THAN 60°F

5 CABINET HEATER CONTROL - ELECTRIC - CAB-A
NO SCALE



SEQUENCE OF OPERATION:
EXHAUST FAN SHALL BE INTERLOCKED TO RUN CONTINUOUSLY WHEN RESPECTIVE AHU IS OPERATING.

2-POSITION DAMPER SHALL FULLY OPEN WHEN FAN IS ENERGIZED. WHEN FAN IS DE-ENERGIZED, 2-POSITION DAMPER SHALL FULLY CLOSE.

6 EXHAUST FAN CONTROL - AHU INTERLOCK - FAN-B
NO SCALE

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PROJECT #22006578.00

SHEET TITLE
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PACKAGED ROOFTOP UNIT SCHEDULE – GAS-DX

NOTES:
1.POWER EXHAUST POWERED SEPARATELY.
2.TOTAL OPERATING WEIGHT INCLUDES UNIT, CURB, ACCESSORIES AND UNIT MOUNTED POWER EXHAUST. DUCT MOUNTED ACCESSORIES AND EQUIPMENT ARE NOT INCLUDED. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO ROOFTOP UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO ADDITIONAL COST.
3.PROVIDE SHAFT GROUNDING IF REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
4.LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.
5.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
6.STAGES: DIG = DIGITAL SCROLLS, VFD = INVERTER, # = NUMBER OF COMPRESSOR STAGES.
7. M.C. SHALL PROVIDE RTU WITH MECHANICAL SCREENWALL THAT IS ATTACHED TO THE UNIT. PROVIDE ARCHITECT WITH A FULL SET OF COLOR SAMPLES. REFER TO 237416.13 FOR ADDITIONAL INFORMATION.
8. RTU SHALL BE DUAL POINT POWER. CIRCUIT #1 IS NOT ON EMERGENCY POWER AND SHALL INCLUDE: COMPRESSORS & CONDENSER. CIRCUIT #2 IS ON EMERGENCY POWER AND SHALL INCLUDE: FANS, CONTROLS & GAS HEAT.

				SUPPLY FAN (NOTE 3)						UNIT ELECTRICAL DATA (NOTE 8)											COOLING COIL - DX								HEATING - GAS							
													CIRCUIT #1		CIRCUIT #2		DISCONNECT(S)		CONTROLLER STARTER(S)																	
TAG NAME	AREA SERVED	NOMINALTONS	MINIMUM OUTSIDE AIR (CFM)	NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	R P M	BHP EACH (NOTE E)	MHP EACH (NOTE E)	NO. OF POWER CONNECTIONS	VOLTAGE	PHASES	MCA	MOCP	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE B)	SCCR	NO. OF AUXILARY CONNECTIONS	EAT DB °F	EAT WB °F	LAT DB °F (NOTE 4)	LAT WB °F (NOTE 4)	SENSIBLE MBH	TOTAL MBH	AMB TEMP °F	STAGES (NOTE 6)	MIN EFF AFUE	MIN INPUT MBH	MIN OUTPUT MBH	TURN DOWN/STEPS	MAX FUEL PRESSURE IN W.C.	SEER (EER)	FILTER TYPE	DISCHARGE DIRECTION
RTU-1	ENTIRE BUILDING	40	3100	2	12500	1.5	2441	4.9	7.5	2	208	3	163.7 A	225 A	60.7 A	70	MFR	NF	MFR	VFD	10,000 A	1	80.0	66.4	53.6	53.6	360	485	95	VFD	81	400	324	10:1	14	10.2	MERV-8	DN

PACKAGED ROOFTOP UNIT SCHEDULE – GAS-DX - CONT.

	POWERED EXHAUST (NOTE 1 AND 3)								MAX DIMENSIONS			WEIGHT (NOTE 2)				
TAG NAME	NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	RPM	BHP EACH (NOTE E)	MHP EACH (NOTE E)	CONTROL TYPE (NOTE 5)	CURB TYPE (NOTE G)	LENGTH	WIDTH	HEIGHT	(TOTAL) OPERATING	AUTOMATIC SMOKE DETECTION SHUTOFF	MANUFACTURER	MODEL	NOTES
RTU-1	2	12,000	0.75	2014	2.355	5	RTU-A	MFR	265"	96.5"	77.6"	7437	YES	DAIKIN APPLIED	DPSA040	NOTE 7

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.

B. DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED

C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER

FAN SCHEDULE

NOTES:
1.CONTROL TYPE - FAN-A. REFER TO CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.
2. CONTROL TYPE - FAN-B. REFER TO CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.

									ELECTRICAL (NOTE 1)											
													DISCONNECT		CONTROLLER/ STARTER					
TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	BACKDRAFT DAMPER TYPE	CURB TYPE (NOTE G)	BHP	MHP	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	SCCR (kA)	WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
EF-1	RR 113	70	0.50	838	DIRECT	2	GRAVITY	N/A	0.004	0.008	120	1	EC	NF	EC	NOTE 1	5	12	GREENHECK	SP	
EF-2	RR 114	70	0.30	838	DIRECT	2	GRAVITY	N/A	0.004	0.008	120	1	EC	NF	EC	NOTE 1	5	12	GREENHECK	SP	
EF-3	GENERAL EXHAUST	500	1.00	1581	DIRECT	9.5	MOTORIZED	MFR	0.17	0.25	120	1	EC	NF	MFR	NOTE 2	5	38	GREENHECK	G-099-VG	
EF-4	GENERAL EXHAUST	240	0.75	1623	DIRECT	11.6	MOTORIZED	MFR	0.09	0.167	120	1	EC	NF	MFR	NOTE 2	5	30	GREENHECK	G-095-VG	

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT ELECTRIC REHEAT

NOTES:
1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2.TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
4.SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.

		CFM			HEATING COIL				ELECTRICAL											
												DISCONNECT								
TAG NAME	AREA SERVED	COOLING MAX.	HEATING MAX.	MIN.	EAT °F	LAT °F	NUMBER OF STAGES	KW	VOLTAGE	PHASE	BY (NOTE A)	TYPE (NOTE B)	SCCR	MINIMUM INLET SIZE (IN.) DIA.	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL	NOTES
TAB-103	BREAK ROOM & STORAGE	600	400	150	55.0	93.2	SCR	5	208	3	EC	NF	5000	8"	TAB-A	TYPE 2	DAIKIN	MQTHI5	NOTES 1, 2
TAB-104	COUNCIL CHAMBERS	1950	1000	1000	55.0	91.7	SCR	12	208	3	EC	NF	5000	14"	TAB-A	TYPE 2	DAIKIN	MQTHI5	NOTES 1, 2
TAB-105	COUNCIL CHAMBERS	1950	1000	1000	55.0	91.7	SCR	12	208	3	EC	NF	5000	14"	TAB-A	TYPE 2	DAIKIN	MQTHI5	NOTES 1, 2
TAB-106	MEETING ROOM	225	145	80	55.0	97.2	SCR	2	208	3	EC	NF	5000	8"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-202	FINANCE & HR	300	200	100	55.0	94.8	SCR	2.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-203	8 PERSON MEETING	350	300	100	55.0	91.9	SCR	3.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-204	MAYOR & CITY CLERK	300	200	100	55.0	94.8	SCR	2.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-205	4 MAN OFFICE	500	250	100	55.0	91.7	SCR	3	208	3	EC	NF	5000	8"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-206	CITY ADMIN	550	350	150	55.0	89.9	SCR	4	208	3	EC	NF	5000	8"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-207	BUILDING RECORDS AND MAIL ROOM	350	125	100	55.0	97.5	SCR	1.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-208	12 PERSON MEETING ROOM	1225	700	300	55.0	89.9	SCR	8	208	3	EC	NF	5000	12"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-209	BREAK ROOM	700	500	250	55.0	91.7	SCR	6	208	3	EC	NF	5000	8"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-210	MOTHERS ROOM & STAIRS	350	125	100	55.0	94.1	SCR	1.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 2	DAIKIN	MQTHI5	NOTES 1, 2
TAB-211	CONSTRUCTION OBSERVER	300	200	100	55.0	94.8	SCR	2.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-212	FUTURE OFFICES	300	200	100	55.0	94.8	SCR	2.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2
TAB-213	RECEPTION	400	125	100	55.0	94.1	SCR	1.6	208	3	EC	NF	5000	6"	TAB-A	TYPE 4	DAIKIN	MQTHI5	NOTES 1, 2

TERMINAL AIR BOX SCHEDULE - FAN POWERED WITH ELECTRIC REHEAT

NOTES:
1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2.TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
4.SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.
5.HEATING COIL IS BASED ON HEATING AIR FLOW AND A FIXED LEAVING AIR TEMPERATURE.
6. MFR TO PROVIDE HEATING COIL WITH SCR CONTROL.

				CFM		FAN			HEATING COIL (NOTES 5)				ELECTRICAL										
															DISCONNECT	DISCONNECT	CONTROLLER/ STARTER						
TAG NAME	AREA SERVED	CONFIGURATION	MIN. INLET SIZE	MAX.	MIN.	CFM	S.P. IN. W.C.	HP	EAT °F	LAT °F	NUMBER OF STAGES	KW	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
FTAB-101	LOBBY	PARALLEL	10"	750	250	500	0.3	0.125	64.8	92.9	NOTE 6	9	208	3	MFR	NF	MFR	5000	TAB-B	TYPE 2	DAIKIN	MQFVI5	NOTES 1, 2
FTAB-102	RESTROOMS	PARALLEL	6"	500	100	400	0.3	0.125	62.5	90.2	NOTE 6	7	208	3	MFR	NF	MFR	5000	TAB-B	TYPE 2	DAIKIN	MQFVI5	NOTES 1, 2
FTAB-201	2ND FLOOR LOBBY	PARALLEL	10"	1000	500	500	0.3	0.125	64.8	92.9	NOTE 6	9	208	3	MFR	NF	MFR	5000	TAB-B	TYPE 2	DAIKIN	MQFVI5	NOTES 1, 2

CABINET HEATER SCHEDULE - ELECTRIC

NOTES:
1.COORDINATE COLOR SELECTION WITH ARCHITECT.

					CABINET (NOTE 1)			FAN	HEATING ELEMENT		ELECTRICAL										
														DISCONNECT		CONTROLLER/ STARTER					
TAG NAME	AREA SERVED	CONFIGURATION	NOMINAL CFM	CONTROL TYPE	HEIGHT	WIDTH	LENGTH	MHP	NUMBER OF STAGES	KW	VOLTAGE	PHASES	FLA	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR (kA)	MANUFACTURER	MODEL	NOTES
CAB-1	VESTIBULE	HORIZONTAL RECESSED	400.0	CAB-A	10"	41"	30"	0.15	2	5.7	208	3	16	MFR	NF	MFR	5	TRANE	FFE040	NOTES 1
CAB-2	RESTROOM	CEILING CONCEALED	150.0	CAB-A	4"	16"	19"	0.1	4	3.6	208	1	17	MFR	NF	MFR	5	QMARK	EFF	NOTE 1
CAB-3	RESTROOM	CEILING CONCEALED	150.0	CAB-A	4"	16"	19"	0.1	1	3.6	208	1	17	MFR	NF	MFR	5	QMARK	EFF	NOTE 1

UNIT HEATER SCHEDULE - ELECTRIC

NOTES:
1.MFR TO PROVIDE UNIT HEATER WITH UNIT MOUNTED THERMOSTAT. UNIT HEATER SHALL BE SET TO MAINTAIN THE SPACE TEMPERATURE OF 60°F (ADJ.)

				ELECTRICAL		AIR TEMP. RISE °F	HEATING ELEMENT		ELECTRICAL										
												DISCONNECT		CONTROLLER/ STARTER					
TAG NAME	AREA SERVED	CONFIGURATION	CFM	HP	RPM		NUMBER OF STAGES	KW	VOLTAGE	PHASES	FLA	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	CONTROL	MANUFACTURER	MODEL	NOTES
UH-1	MECHANICAL ROOM	HORIZONTAL	400	0.008	1550	40.0	2	5	208	3	13.9	MFR.	NF	MFR	5000	NOTE 1	TRANE	UHEC	
UH-2	JANITORS CLOSET	HORIZONTAL	400	0.008	1550	40.0	2	5	208	3	13.9	MFR.	NF	MFR	5000	NOTE 1	TRANE	UHEC	

SPLIT SYSTEM UNIT SCHEDULE

NOTES:
1.MFR TO PROVIDE INDOOR UNIT WITH A INTEGRAL CONDENSATE PUMP.

		INDOOR UNIT							OUTDOOR UNIT						ELECTRICAL									
					MAX. DIMENSIONS					MAX. DIMENSIONS									DISCONNECT		CONTROLLER/ STARTER			
TAG NAME	AREA SERVED	CFM	COOLING MBH	HEATING MBH	LENGTH	DEPTH	HEIGHT	MODEL	SEER	HEIGHT	DEPTH	WIDTH	WEIGHT (LBS)	MODEL	VOLTAGE	PHASE	MCA	MOCP AMPS	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	MANUFACTURER	NOTES
SS-1	IT	645	21.2	24	31"	9"	12"	FTK	20	29"	13"	35"	130	RXL	208	1	18.9	20	MFR	NF	MFR	5000	DAIKIN	NOTE 1

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LINEAR DIFFUSER SCHEDULE

NOTES:
1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2. PROVIDE WITH CONCEALED FASTENERS.
3. DIFFUSERS WITH MULTIPLE SLOTS SHALL HAVE THE INNER MOST SLOT DIRECTED TOWARDS THE INTERIOR OF THE BUILDING, THE REMAINING SHALL BE DIRECTED TOWARDS THE EXTERIOR UNLESS NOTED OTHERWISE.

TAG NAME	MATERIAL	SLOT WIDTH	NO. OF SLOTS	WIDTH	LENGTH	PLENUM REQUIRED	PLENUM INSULATION TYPE	PLENUM INLET SIZE	PATTERN CONTROL REQUIRED	BALANCING DAMPER REQUIRED	FINISH	MANUFACTURER	MODEL	NOTES
LD-1	STEEL	1"	2	4"	4'-0"	Yes	WRAPPED	SEE DWG.	Yes	No	WHITE	TITUS	TBD	NOTE 1, 2 , & 3

AIR TERMINAL SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
2.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
EG-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	
ER-1	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	YES	TITUS	350R	
RG-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	PROVIDE GRILLE WITH CANOPY. REFER TO 5/M4.0.
RG-2	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	350R	
SD-1	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	FLUSH FACE PANEL
SD-2	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	YES	TITUS	OMNI	FLUSH FACE PANEL
SR-1	INLET +2	DOUBLE DEFLECTION	1 1/4"	STEEL	WHITE	YES	TITUS	300RL	

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PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
M6.1

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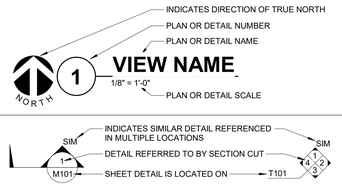
VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
E / E	ECONN	26 05 33	ELECTRICAL CONNECTION
J / J	JB	26 05 33	JUNCTION BOX
	FB-# or PT-#	26 27 26	FLOOR BOX or POKE THROUGH
DPM	DPM	26 09 13/ 26 24 13	DIGITAL POWER METER
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-# /CB-#/CS-#	26 24 19	MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER. REFER TO DISC/STA SCHEDULE
	DS-#/FDS-#/DSS-#	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-GFI	26 27 26	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-QUAD	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V
W	REC-QUAD-WP	26 27 26	QUAD GFI WEATHERPROOF RECEPTACLE, 125V

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2015 EDITION
FIRE CODE:	IFC 2015 EDITION
PLUMBING CODE:	UPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2015 EDITION
ENERGY CONSERVATION CODE:	IECC 2012
LOCAL BUILDING CODE:	CURRENT EDITION

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
$	SW-1P	26 09 33	SWITCH - SINGLE POLE
$3	SW-3W	26 09 33	SWITCH - THREE WAY
$D	SW-D-LED	26 09 33	DIMMER - LED
$D3	SW-D3-LED	26 09 33	DIMMER - LED - 3-WAY
PC	SW-LS-PC	26 09 33	PHOTOCELL
OCD	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
$O	SW-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
OCP	SW-OC-P-P	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED 360 DEGREE COVERAGE
OCU	SW-OC-U	26 09 33	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
OCA	SW-OC-U-A	26 09 33	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
SW	SW	26 09 33	WALL CONTROL STATION
TC	TC-#	26 09 33	TIME SWITCH
ALCR	ALCR20	26 09 33	AUTOMATIC LOAD CONTROL RELAY

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			DOWNLIGHT LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			EMERGENCY UNIT

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	DAVE INGHRAM
MECHANICAL	KEITH PADGETT
ELECTRICAL	ZACH ROSS
TECHNOLOGY	MATT GRZOVIC

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	EMT	PVC	PVC CONCRETE ENCASED
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X		
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X		
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X		
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X		
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X		
FINISHED SPACES / CONCEALED		X		
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X			
CORROSIVE LOCATIONS				
ELEVATED CONCRETE SLABS (ABOVE GRADE)	X		X	
INTERIOR LOCATIONS: CONCEALED		X		
INTERIOR LOCATIONS: EXPOSED		X		
INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED INSTALLATION (FINISHED SPACES)		X		
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)				
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X		X	
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	X			X
UNDERGROUND SITE CONDUITS:				
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X		X	
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT			X	
DUCTBANKS (REFER TO DUCTBANK DETAILS WHEN APPLICABLE)				
REINFORCING SHALL CONSIST OF ONE-HALF INCH DEFORMED BARS SPACED 12 INCHES ON CENTER, PARALLELING THE DUCTS ON BOTTOM, WITH ONE-HALF INCH DEFORMED TIE BARS SPACED TWELVE INCHES ON CENTERS.				X
BARS SHALL OVERLAP 40 DIAMETERS AND SHALL EXTEND 5' BEYOND ROADS, DRIVES, TRAVELED WAYS, ETC.				X
PROVIDE MINIMUM 3" CONCRETE COVER ON ALL SIDES OF REINFORCING.				X
ENTIRE DUCTBANK SHALL BE INSTALLED ON PRECAST CONCRETE PAVERS ON 3' CENTERS.				X
HAZARDOUS (CLASSIFIED LOCATIONS AS DEFIED BY THE NATIONAL ELECTRICAL CODE: COMPLETE WITH SCREWED FITTINGS AND CONDUIT SEALS	X			
FIRE RATED ASSEMBLIES: FIRE RATED ASSEMBLIES LISTED WITH PHENOLIC RTRC RACEWAY				
DEFINITIONS:				
CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE FOUNDATION.				

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
ATS-#	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
DP-#	DISTRIBUTION PANEL	26 24 16
GEN-#	GENERATOR	26 32 13
INV-#	LIGHTING INVERTER	26 52 00
MC-#	EXTERIOR MOUNTED METERING CABINET	26 20 00
MX-#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
SPD-#	SURGE PROTECTION DEVICE	26 43 00

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	EMERGENCY BRANCH LUMINAIRE
	EMERGENCY BRANCH LUMINAIRE UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED 'SE'

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

ELECTRICAL GENERAL NOTES:

1. **(L###)** INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET **E6.0**.
2. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
3. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER.
4. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
5. REFER TO SHEET **E6.0** FOR LUMINAIRE SCHEDULE.
6. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

LUMINAIRE KEY:
LUMINAIRE — F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION
NL = SUBSCRIPT (IF APPLICABLE)

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:
DEVICE — A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

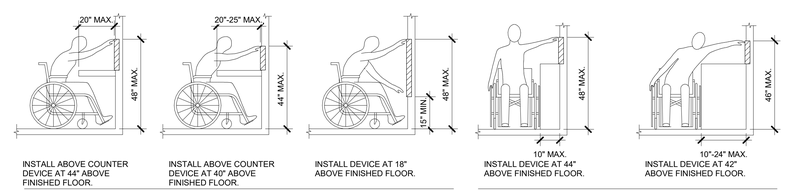
A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
R	MOUNT IN SURFACE RACEWAY
EWC	ELECTRIC WATER COOLER

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSION) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
6. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
7. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
8. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
9. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
10. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
11. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
13. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
14. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
16. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX

E0.0	ELECTRICAL COVERSHEET
E0.1	ELECTRICAL SYSTEMS COVERSHEET
E0.2	SITE PLAN - ELECTRICAL
E1.1	FLOOR PLANS - LIGHTING
E1.2	FLOOR PLANS - POWER
E1.3	FLOOR PLANS - SYSTEMS
E2.1	ROOF PLAN - ELECTRICAL
E4.0	ELECTRICAL DETAILS
E4.1	ELECTRICAL DETAILS
E5.0	ELECTRICAL DIAGRAMS
E6.0	ELECTRICAL SCHEDULES
E7.0	ELECTRICAL PANEL SCHEDULES
GRAND TOTAL: 12	



ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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OCONOMOWOC, WI (262) 968-2055

IN ASSOCIATION WITH

SHEET TITLE
ELECTRICAL COVERSHEET

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

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E0.0

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SYSTEM INPUTS \ SEQUENCE OF OPERATION		PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	CM AHU & MECHANICAL FAN SHUTDOWN SEQUENCE	CM ELEVATOR RECALL SEQUENCE	CM ELEVATOR SHUT DOWN SEQUENCE	CM EMERGENCY CAB VISUAL ALARM SEQUENCE	CM LIGHTING CONTROL OVERRIDE SEQUENCE
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY			X								
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE				X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION.			X								
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY				X							
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X							
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR				X							
FIRE ALARM PANEL MANUAL FIRE DRILL			X		X	X					X
MANUAL PULL STATION	F	X			X	X	X				X
SMOKE DETECTOR	S #/_ S #/_	X			X	X	X				X
HEAT DETECTOR	H #/_ H #/_ H #/_	X			X	X	X				X
SPRINKLER SYSTEM FLOW SWITCH	MM FS	X			X	X	X				X
SPRINKLER SYSTEM MONITOR SWITCH	MM TS PIV		X								
SPRINKLER SYSTEM CABINET MONITOR	MM TS		X								
SMOKE DETECTOR FOR HVAC CONTROL	S #/ S #/ S	X	X	X	X	X	X				X
SMOKE DETECTORS IN ELEVATOR LOBBIES	S E S E	X			X	X	X	X			X
SMOKE DETECTORS IN ELEVATOR MACHINE ROOM & HOISTWAY	S E S E	X			X	X	X	X		X	X
HEAT DETECTOR NEAR ELEVATOR SPRINKLERS	H E H E	X			X	X	X		X		X
ELEVATOR SHUNT TRIP CIRCUIT POWER FAILURE	MM 1		X								

NOTES:

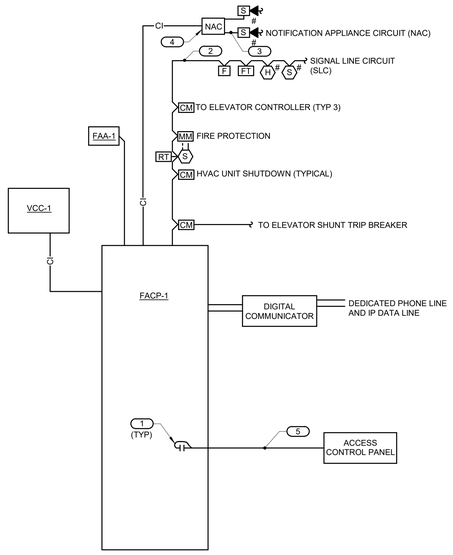
1. ALL SYSTEM EVENTS SHALL BE LOGGED AND DISPLAYED ON THE **ANNUNCIATOR** INTERFACE, IF APPLICABLE. SEE SPECIFICATIONS FOR MORE INFORMATION AND DESCRIPTIONS OF SEQUENCES OF OPERATION.
2. ALL NOTIFICATION APPLIANCE CIRCUITS MUST BE INSTALLED AND PROTECTED IN ACCORDANCE WITH THE CIRCUIT SURVIVABILITY REQUIREMENTS DESCRIBED IN NFPA 72. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES:

1. UTILIZE A GENERAL PURPOSE RELAY TO MONITOR POWER LOSS. CONNECT THE CONTACTS OF THE RELAY TO A FIRE ALARM MONITOR MODULE.

1 FIRE ALARM OPERATION MATRIX

NO SCALE



2 FIRE ALARM RISER

NO SCALE

NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PLENUM RATED CABLE IS ACCEPTABLE.
4. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.
6. ALL NOTIFICATION APPLIANCE CIRCUITS MUST BE INSTALLED AND PROTECTED IN ACCORDANCE WITH THE CIRCUIT SURVIVABILITY REQUIREMENTS DESCRIBED IN NFPA 72. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES: (#)

1. REPRESENTATIVE OF PROGRAMMABLE I/O POINTS IN THE PANEL OR A GENERAL SYSTEM TROUBLE/ALARM CONTACT CONNECTED TO THE SYSTEM NOTED. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
2. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
3. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
4. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS.
5. REPRESENTS THE EXTENSION OF PROGRAMMABLE RELAYS TO THE ACCESS CONTROL SYSTEM. REFER TO SPECIFICATION SECTION 28 13 00 FOR QUANTITY OF POINTS REQUIRED.

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS			SUBSCRIPTS: TYPE / PROGRAMMING WP = WEATHERPROOF E = ELEVATOR RECALL # = 15, 30, 75, 110, 177 CANDELA RATING
	FACP-#	28 31 00	FIRE ALARM CONTROL PANEL
	FAA-#	28 31 00	FIRE ALARM ANNUNCIATOR
	VCC-#	28 31 00	DIGITIZED VOICE COMMAND CENTER
S # S #	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT BLANK - PHOTOELECTRIC
S	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR # = EQUIP OR SYSTEM
H # H #	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR BLANK = COMBINATION RATE OF RISE / FIXED TEMP
F	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
S S	FA-220	28 31 00	AUDIO (SPEAKER) ALARM DEVICE, CEILING OR WALL MOUNTED
S # S #	FA-221	28 31 00	COMBINATION AUDIO (VOICE) AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING
RT	FA-242	28 31 00	FIRE ALARM REMOTE INDICATOR W/ TEST SWITCH
FS	FA-260	28 31 00	FIRE ALARM FLOW SWITCH TO MONITOR SPRINKLER SYSTEM BLANK = REFER TO PLANS
TS	FA-261	28 31 00	FIRE ALARM TAMPER SWITCH TO MONITOR SPRINKLER SYSTEM BLANK = REFER TO PLANS PIV = POST INDICATOR VALVE
MM	FA-160	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE BLANK = REFER TO PLANS
CM	FA-161	28 31 00	FIRE ALARM ADDRESSABLE CONTROL MODULE BLANK = REFER TO PLANS

FIRE ALARM PRE-RECORDED MESSAGE SCHEDULE

MESSAGE SHALL BE AS SHOWN IN THE FOLLOWING TABLE. THESE MESSAGES ARE NOT INTENDED TO SPECIFY THE EXACT WORDING REQUIRED, BUT TO SPECIFY THE MINIMUM INFORMATION CONVEYED BY THE MESSAGE. REFER TO SPECIFICATION SECTION 28 31 00 FOR ADDITIONAL INFORMATION.

ALARM TYPE	NAC AREA	PRECEDING TONE	MESSAGE
FIRE ALARM	SINGLE CHANNEL-ALL AREAS	THREE CHIMES	MAY I HAVE YOUR ATTENTION PLEASE? A FIRE EMERGENCY HAS BEEN REPORTED IN THE BUILDING. PROCEED CALMLY TO THE NEAREST EXIT AND LEAVE THE BUILDING IMMEDIATELY. DO NOT USE THE ELEVATORS. USE STAIRWELLS WHERE NECESSARY. OCCUPANTS THAT ARE UNABLE TO USE STAIRWAYS SHALL REPORT TO DESIGNATED AREAS OF RESCUE ASSISTANCE.
TEST	ALL AREAS	ONE CHIME	"MAY I HAVE YOUR ATTENTION PLEASE? MAY I HAVE YOUR ATTENTION PLEASE? THIS IS A TEST OF THE BUILDING EMERGENCY ALARM SYSTEM. THIS IS ONLY A TEST."
ALL CLEAR	ALL AREAS	ONE CHIME	"MAY I HAVE YOUR ATTENTION PLEASE? MAY I HAVE YOUR ATTENTION PLEASE? THE REPORTED EMERGENCY HAS BEEN INVESTIGATED AND NORMAL CONDITIONS HAVE BEEN RESTORED. YOU MAY RETURN TO ALL AREAS OF THE BUILDING."
SEVERE WEATHER	ALL AREAS	WAIL	"MAY I HAVE YOUR ATTENTION PLEASE? MAY I HAVE YOUR ATTENTION PLEASE? A SEVERE WEATHER WARNING HAS BEEN RECEIVED. PLEASE WALK TO THE NEAREST DESIGNATED SAFE AREA. STAY AWAY FROM WINDOWS AND GLASS. DO NOT USE THE ELEVATORS."

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OCONOMOWOC, WI (262) 968-2055

IN ASSOCIATION WITH

SHEET TITLE
ELECTRICAL SYSTEMS COVERSHEET

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
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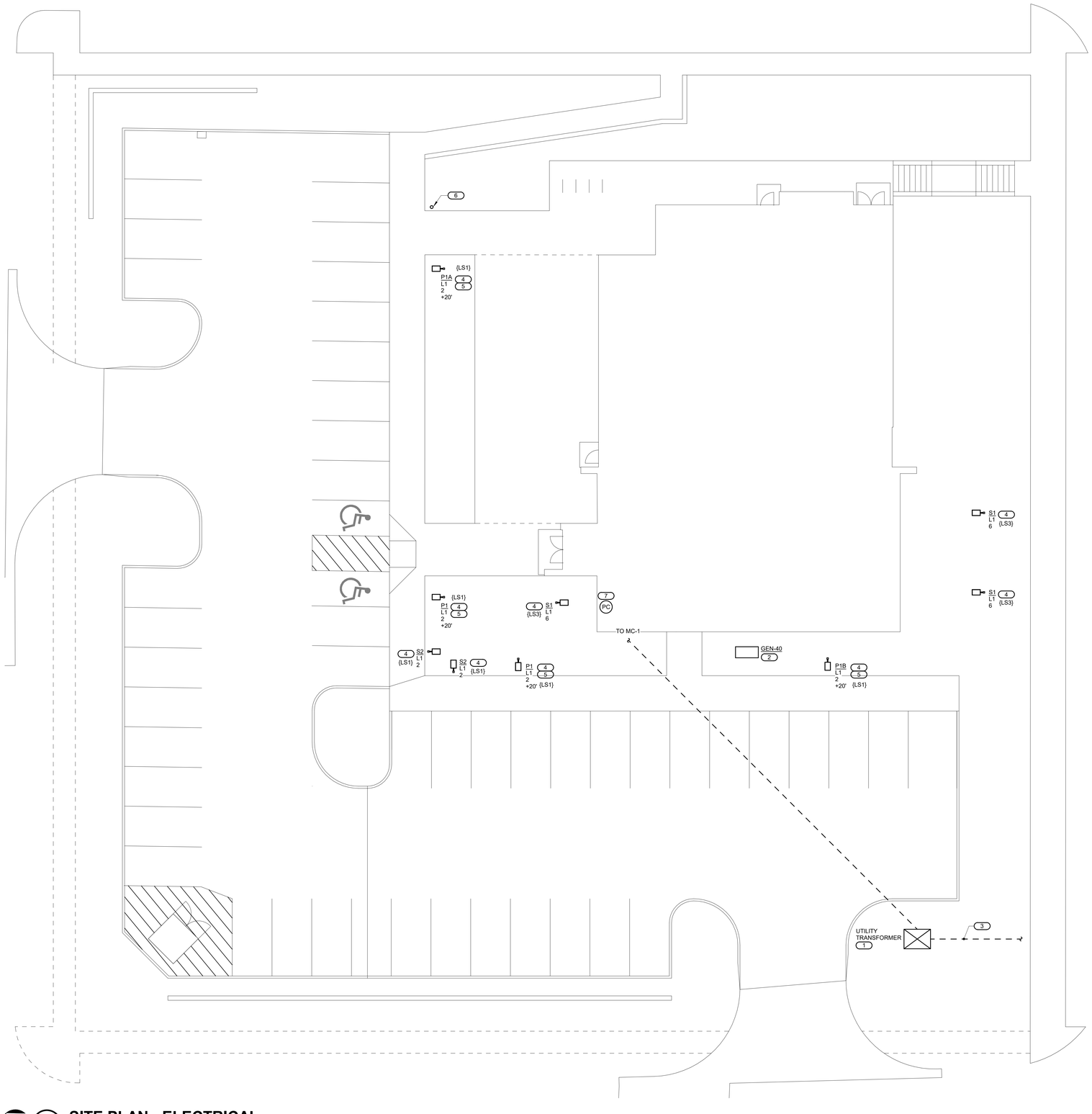
KEYNOTES: (#)

1. REFER TO 5/E4.1 FOR TRANSFORMER PAD DETAIL.
2. REFER TO 6/E4.1 FOR GENERATOR PAD DETAIL.
3. PROVIDE TWO (2) EMPTY 4" CONDUITS WITH PULL STRING TO PROPERTY LINE FOR UTILITY PRIMARIES. COORDINATE ROUTING AND REQUIREMENTS WITH CIVIL AND UTILITY COMPANY PRIOR TO CONSTRUCTION.
4. REFER TO 1/E4.0 FOR EXTERIOR LIGHTING CONTROL DETAIL.
5. REFER TO 2/E4.0 FOR POLE BASE DETAIL.
6. STUB (1) 1" EMPTY CONDUIT WITH PULL STRING UP FROM PANEL L1 FOR FUTURE ARTWORK LIGHTING. CONDUIT SHALL BE FLUSH WITH FINISHED GROUND AND SEALED WATER TIGHT.
7. MOUNT PHOTOCELL ON ROOF OF BUILDING. REFER TO 3/E4.0 FOR PHOTOCELL MOUNTING DETAIL.



NORTH

1 SITE PLAN - ELECTRICAL

1" = 10'-0"

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IN ASSOCIATION WITH

SHEET TITLE
SITE PLAN - ELECTRICAL

PROJECT TITLE
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POLK CITY NEW CITY HALL
200 S 4TH STREET
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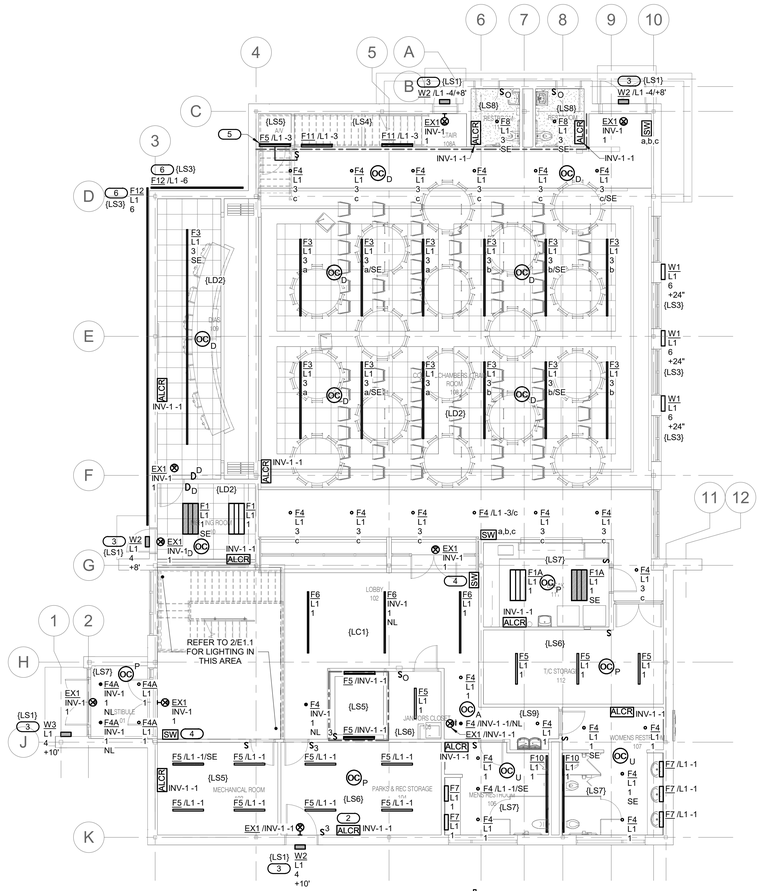

NORTH

1 MAIN FLOOR PLAN - LIGHTING

1/8" = 1'-0"

NORTH

2 UPPER FLOOR PLAN - LIGHTING

1/8" = 1'-0"

SHEET NOTES:

1. ALCRs TO BE MOUNTED ABOVE ACCESSIBLE CEILING WHERE APPLICABLE.

KEYNOTES: (#)

1. F6 FIXTURES TO BE SUSPENDED DOWN INTO SLAT CEILING. BOTTOM OF FIXTURE TO BE FLUSH WITH BOTTOM OF SLAT CEILING.
2. ALCR TO BE INSTALLED INDOORS AND SERVE EMERGENCY LIGHTING ON EXTERIOR OF THE BUILDING.
3. FIXTURE TO BE CONTROLLED VIA LIGHTING CONTACTOR. UPON LOSS OF POWER, FIXTURE TO BE FED FROM ALCR LOCATED IN PARKS & REC STORAGE 104.
4. FIXTURE TO CONTROL LIGHT FIXTURES IN LOBBY 102 ON 1/E1.1 AND THE LOBBY LIGHTS SHOWN ON 2/E1.1.
5. F5 FIXTURE TO BE LOCATED IN A/V CLOSET UNDER STAIRS. MOUNT LIGHT ABOVE THE DOOR.
6. FIXTURE TO BE MOUNTED IN SOFFIT ON EXTERIOR OF BUILDING. MOUNT FIXTURE APPROXIMATELY 1" AWAY FROM WALL. COORDINATE LOCATION AND MOUNTING WITH ARCHITECT PRIOR TO INSTALLATION.

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FLOOR PLANS - LIGHTING

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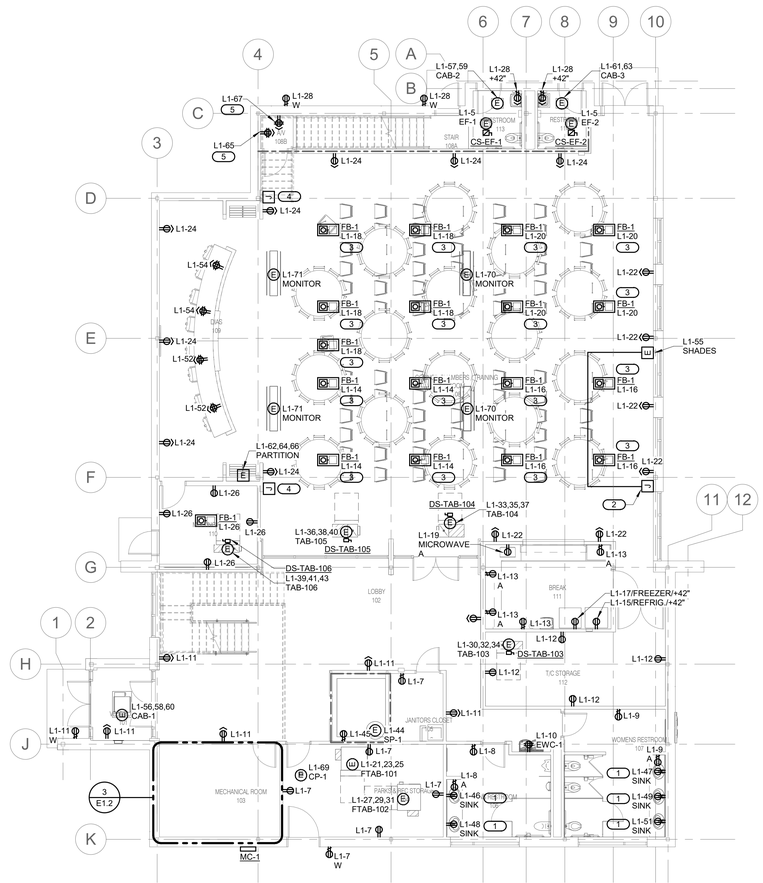
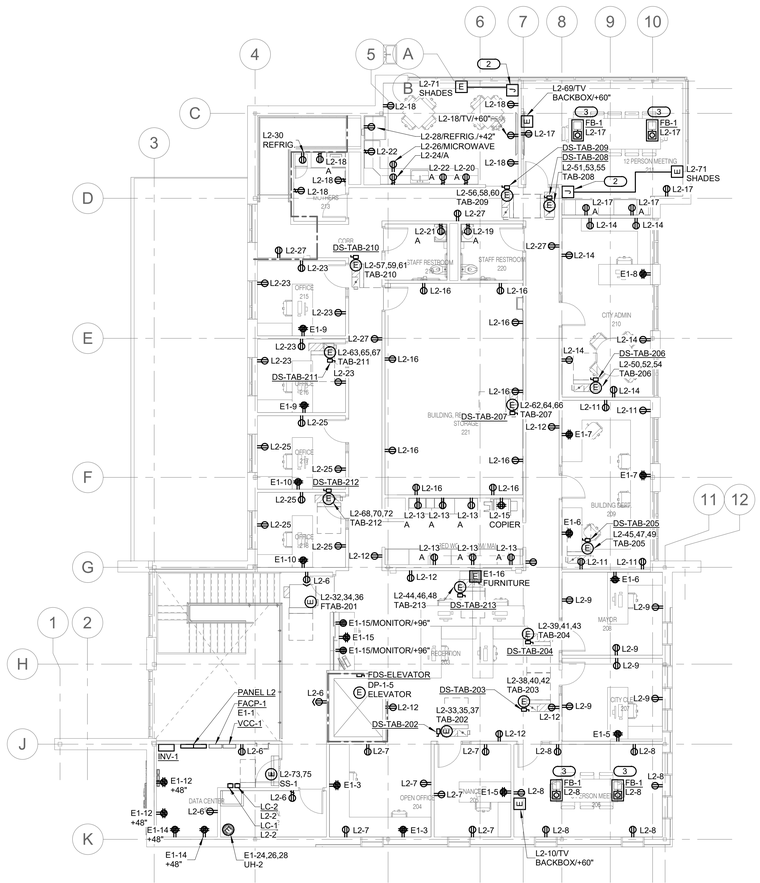
KEYNOTES: (#)

1. DEDICATED OUTLET FOR COMBINATION AUTOMATIC FAUCET/DRYER. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. RECEPTACLE TO BE NO MORE THAN 4 FEET FROM THE DRYER ASSEMBLY.
2. CONTROL STATION FOR SHADES TO BE PROVIDED BY OTHERS. E.C. TO PROVIDE AND INSTALL CONDUIT AND WIRING FROM CONTROLLER TO THE AUTOMATIC SHADES. COORDINATE LOCATION OF SHADES CONTROLLER WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3. COORDINATE EXACT LOCATION OF FLOOR BOX WITH ARCHITECT PRIOR TO INSTALLATION.
4. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT AND WIRE FROM EACH PARTITION OPERATING STATION TO THE MOTOR. COORDINATE LOCATION OF OPERATING STATIONS WITH FINAL PARTITION SUBMITTAL AND ARCHITECT PRIOR TO ROUGH-IN.
5. RECEPTACLE LOCATED IN AV CLOSET BELOW STAIRS.



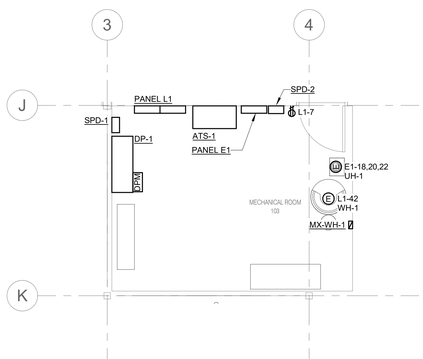
1 MAIN FLOOR PLAN - POWER

1/8" = 1'-0"



2 UPPER FLOOR PLAN - POWER

1/8" = 1'-0"



3 MECHANICAL ROOM 103 - POWER

1/4" = 1'-0"

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FLOOR PLANS - POWER

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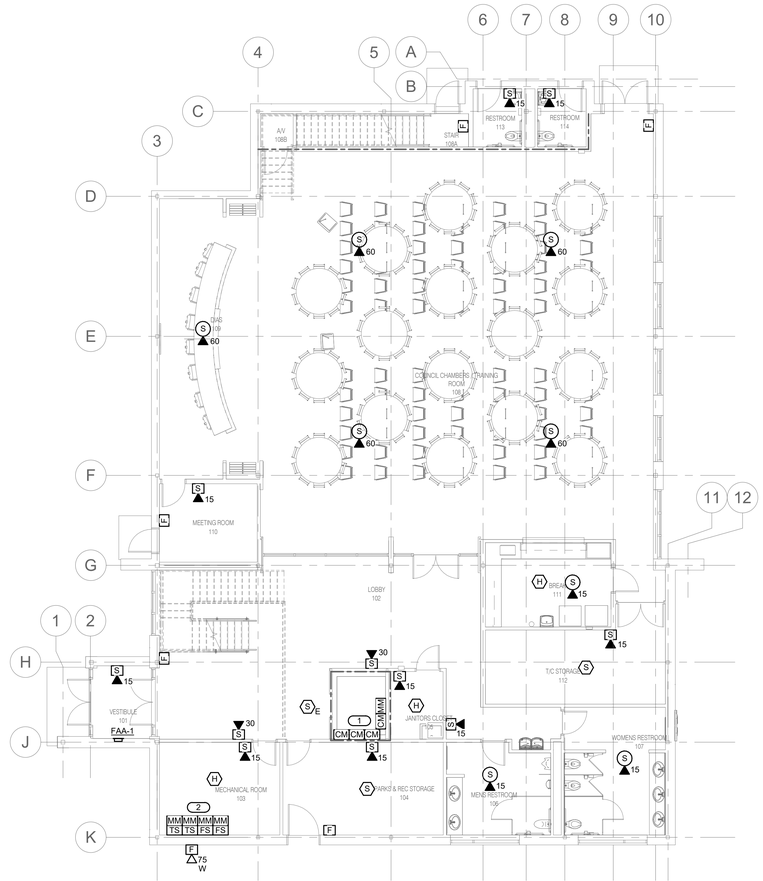
KEYNOTES: (#)

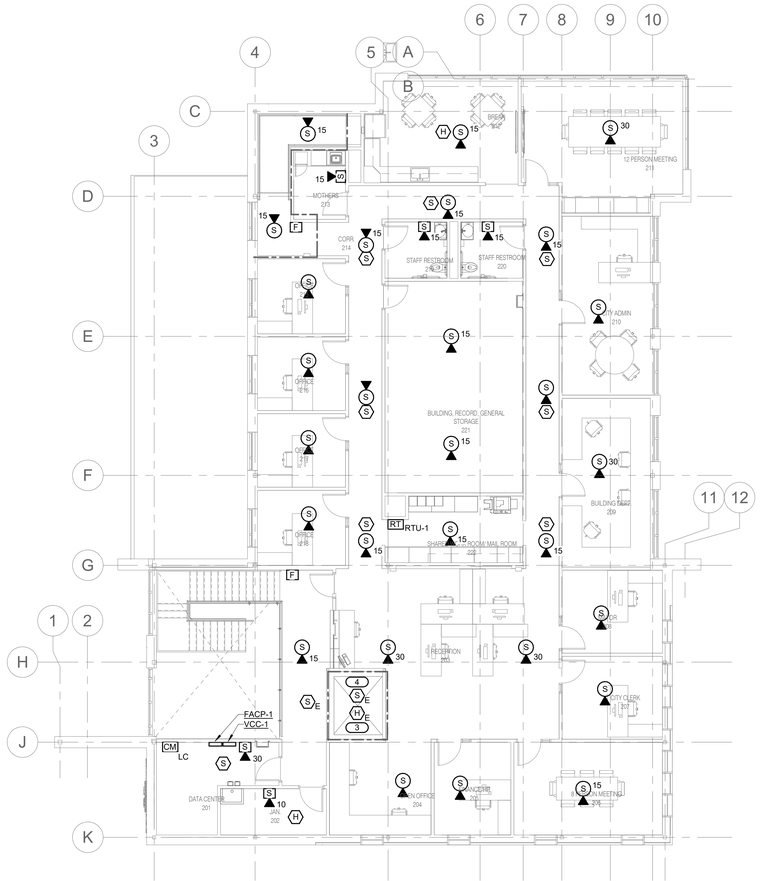
1. PROVIDE (4) CONTROL MODULES AND (1) MONITOR MODULE FOR THE ELEVATOR.
2. PROVIDE (4) MONITOR MODULES FOR THE SPRINKLER SYSTEM. COORDINATE QUANTITY AND LOCATION WITH F.P.C.
3. PROVIDE HEAT DETECTORS WITHIN 2' OF EVERY SPRINKLER HEAD IN THE ELEVATOR SHAFT.
4. SMOKE DETECTOR TO BE LOCATED AT THE TOP OF THE ELEVATOR SHAFT.



NORTH

1 MAIN FLOOR PLAN - SYSTEMS

1/8" = 1'-0"



NORTH

2 UPPER FLOOR PLAN - SYSTEMS

1/8" = 1'-0"

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FLOOR PLANS - SYSTEMS

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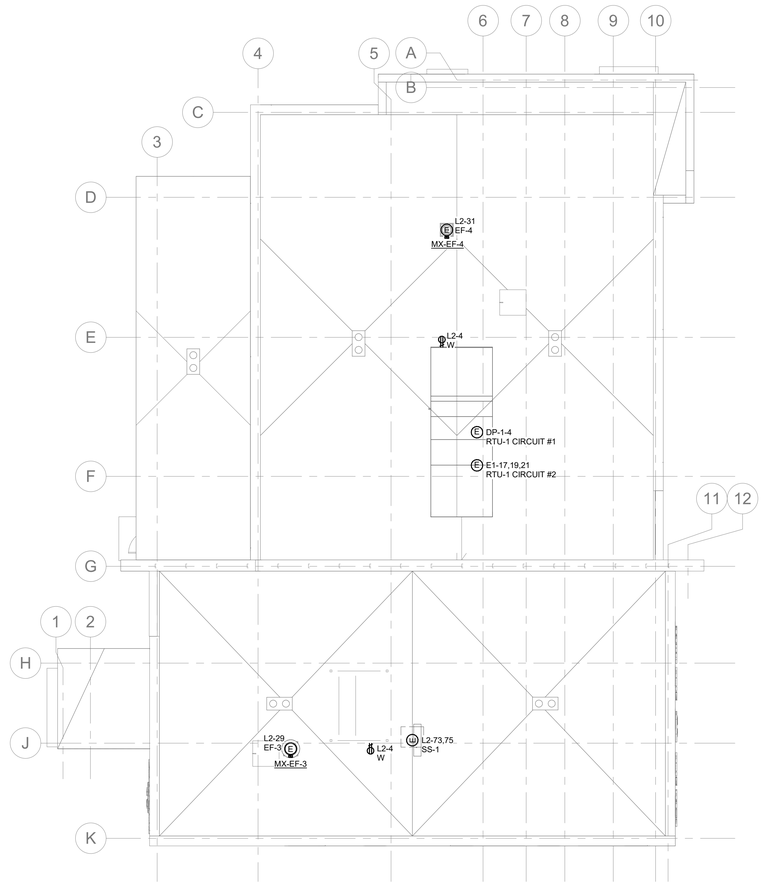
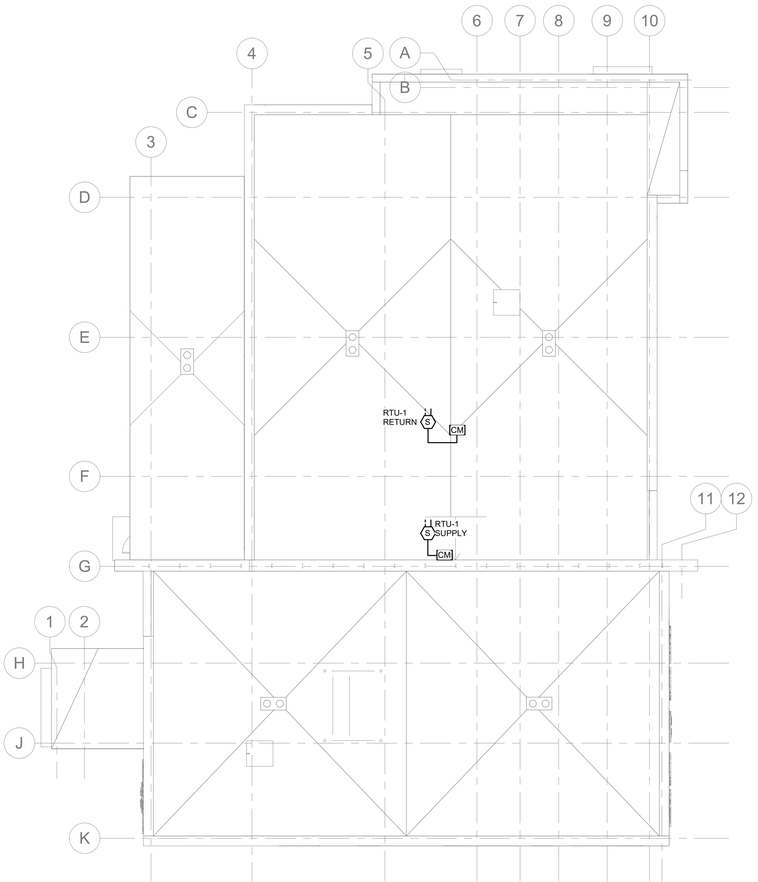


1 ROOF PLAN - POWER

1/8" = 1'-0"



2 ROOF PLAN - SYSTEMS

1/8" = 1'-0"

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IN ASSOCIATION WITH

SHEET TITLE
ROOF PLAN - ELECTRICAL

PROJECT TITLE
CITY OF POLK CITY, IOWA
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200 S 4TH STREET
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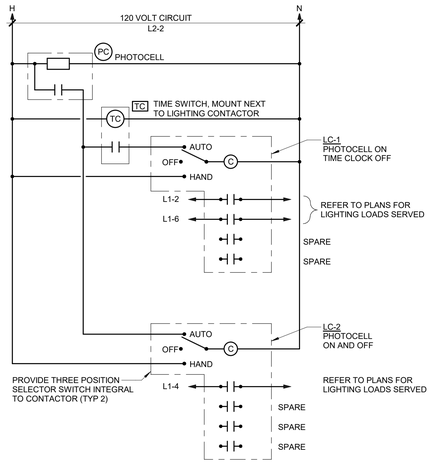
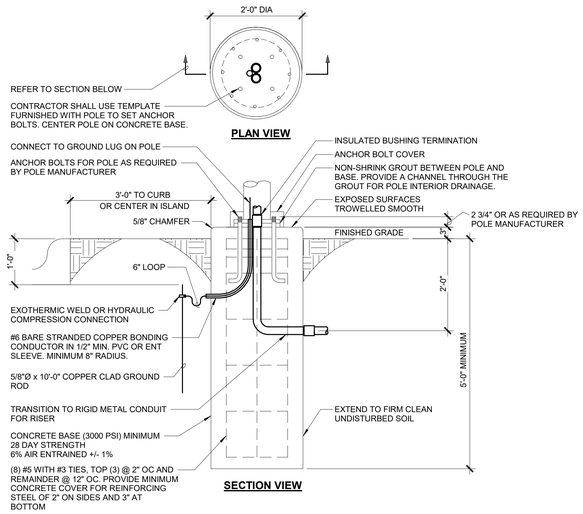


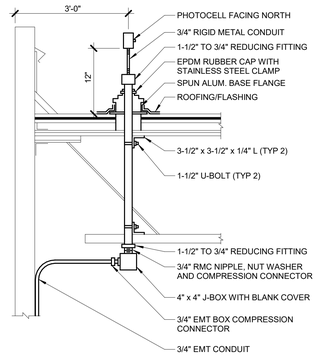
1 EXTERIOR LIGHTING CONTROL DETAIL

NO SCALE



2 POLE BASE DETAIL

NO SCALE



NOTES

1. STRUCTURAL DETAIL SHOWN IS TO BE REPRESENTATIVE ONLY. REFER TO ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS FOR ACTUAL CONDITIONS ON THIS PROJECT.

3 PHOTOCELL MOUNTING DETAIL

NO SCALE

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ELECTRICAL DETAILS

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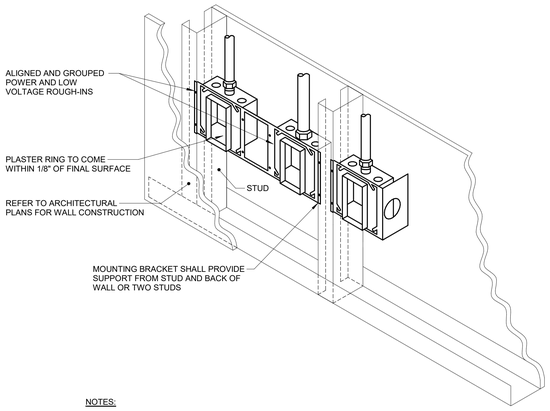
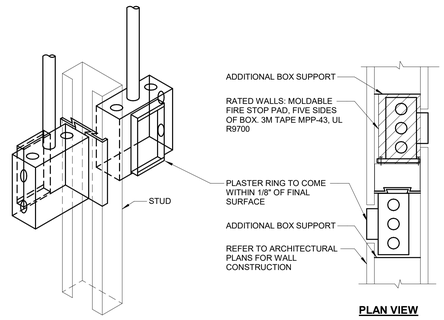


NOTES:

1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL.
4. MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.

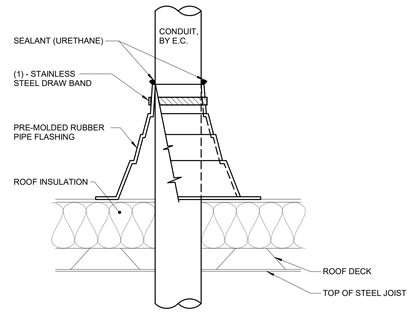
1 BACKBOX MOUNTING DETAIL
NO SCALE



NOTES:

1. HORIZONTAL CONDUIT CONNECTION BETWEEN BOXES LESS THAN 2'-0" NOT PERMITTED. SEE SPECIFICATIONS AND DRAWING NOTES FOR ADDITIONAL SPACE REQUIREMENTS BETWEEN DEVICES.

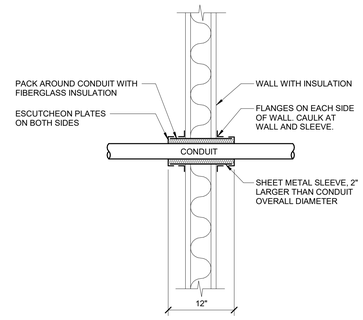
2 SIDE BY SIDE DEVICE OPENINGS
NO SCALE



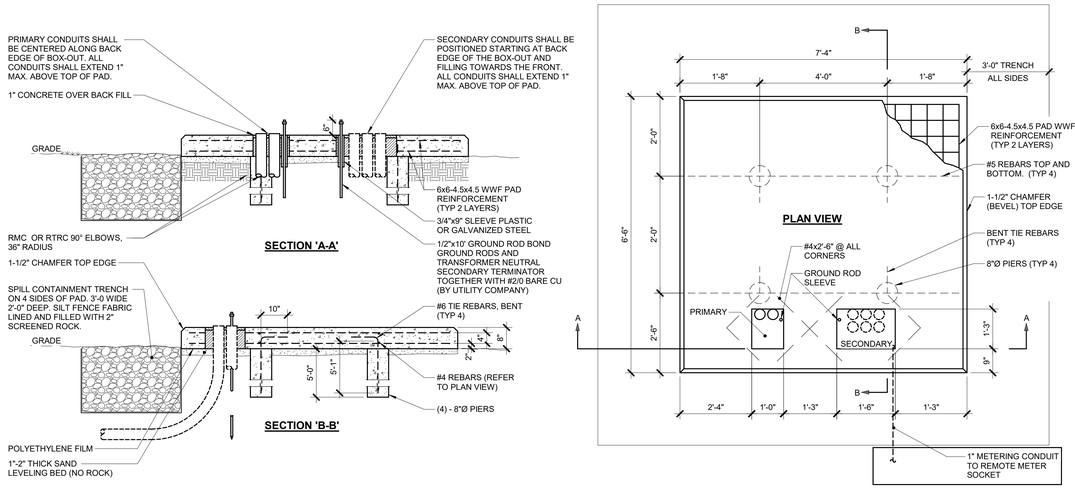
NOTES:

1. CONDUIT SHALL BE SUPPORTED WITHIN 24 INCHES ABOVE AND BELOW ROOF.
2. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) AND ROOFING INSTALLER PRIOR TO INSTALLATION.

3 CONDUIT ROOF PENETRATION
NO SCALE



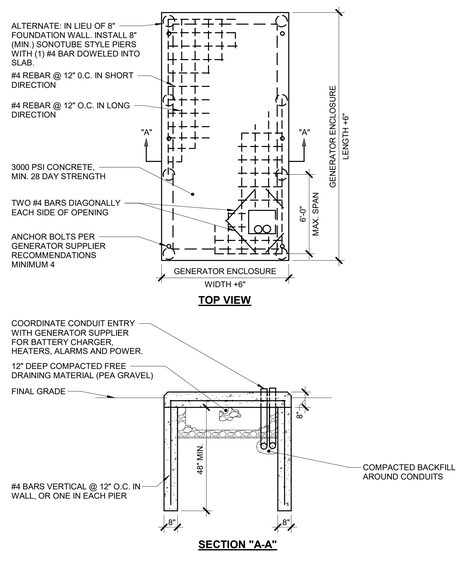
4 CONDUIT WALL PENETRATION
NO SCALE



NOTES:

1. CONCRETE: f'c ≥ 3500 PSI AT 28 DAYS.
2. REINFORCING STEEL: ASTM A 615-60.
3. 6x6-4.5x4.5 WELDED WIRE FABRIC (WWF): ASTM A 185.
4. SOIL: ≥ 95 PERCENT PROCTOR DENSITY OR 55 PSI PBV.
5. ELECTRICAL CONTRACTOR TO PROVIDE TRANSFORMER PAD AS SHOWN.
6. VERIFY FINAL REQUIREMENTS AND DIMENSIONS WITH UTILITY COMPANY.

5 TRANSFORMER PAD DETAIL (225-500 KVA)
NO SCALE



NOTES:

1. COORDINATE PAD DIMENSIONS WITH GENERATOR SUPPLIER PRIOR TO START OF CONSTRUCTION.

6 GENERATOR PAD DETAIL
NO SCALE

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
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REF. SCALE IN INCHES
PROJECT #22006578.00

SHEET TITLE
ELECTRICAL DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
E4.1

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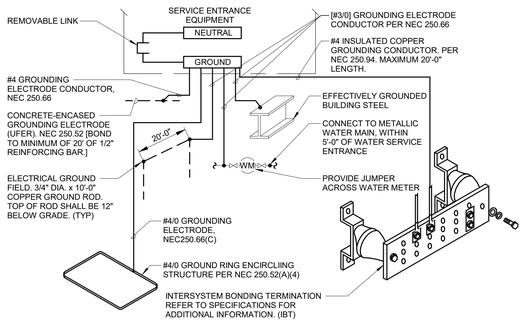
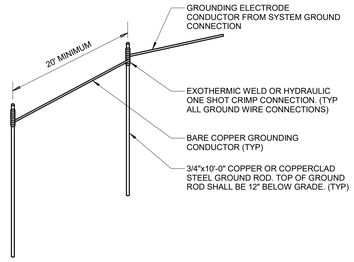


NOTES.

1. 1. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDING AND BONDING

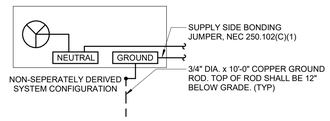
2 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL

NO SCALE



3 GROUND GRID DETAIL

NO SCALE



4 GENERATOR GROUNDING DETAIL

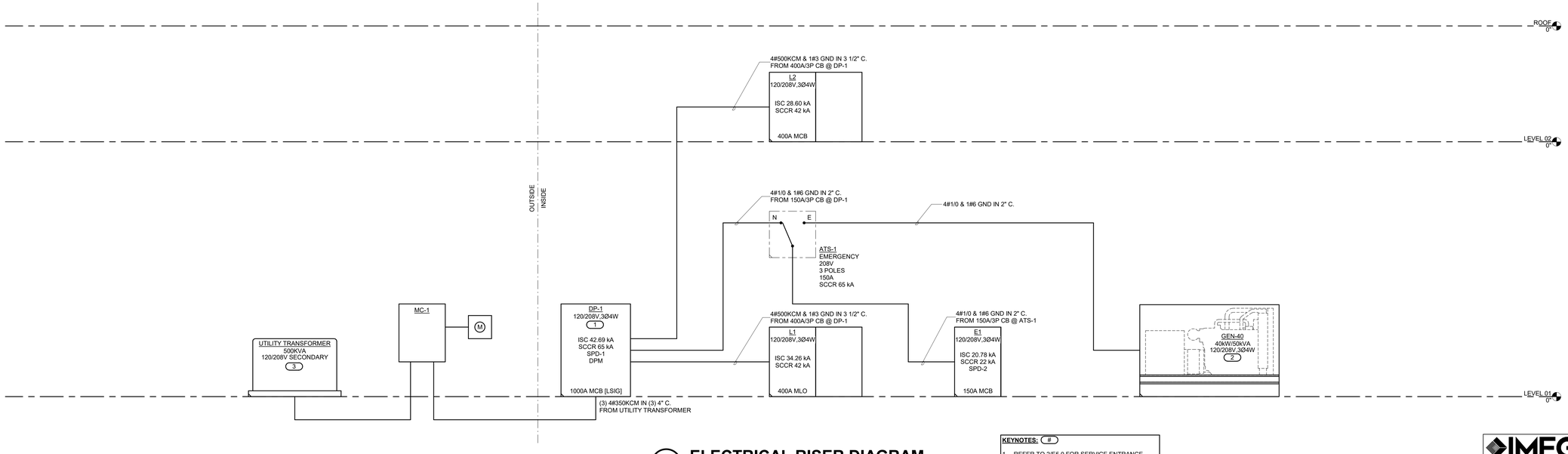
NO SCALE

ELECTRICAL - RISER DIAGRAM NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE COMPONENTS OF THE ELECTRICAL DISTRIBUTION SYSTEM. REFER TO ELECTRICAL DRAWINGS, DETAILS, DISTRIBUTION / PANEL / EQUIPMENT / EQUIPMENT CONNECTION SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. SHORT CIRCUIT CURRENT RATINGS (SCCR) FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUSS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
3. TRANSFER SWITCHES (SCCR) RATINGS ARE INTENDED AS WITHSTAND AND CLOSE RATINGS (WCR).
4. THE BASIS OF DESIGN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING AND SIZING CONDUCTORS AND CONDUITS TO EQUAL OR EXCEED AMPACITY OF THE BASIS OF DESIGN CIRCUITS WHEN ALTERNATIVE METHODS OR MATERIALS OTHER THAN THE BASIS OF DESIGN ARE APPLIED.
   a. RACEWAY: EMT UNLESS OTHERWISE NOTED
   b. FEEDER CHARACTERISTICS: ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. CONDUCTOR SIZES ARE BASED ON AMERICAN WIRE GAUGE AWG AND KCMIL THOUSANDS OF CIRCULAR MIL. REFER TO SPECIFICATION SECTION 25 05 13 WIRE AND CABLE FOR ADDITIONAL INFORMATION
   c. GROUNDING AND BONDING CONDUCTORS SHALL BE COPPER.
   d. CONDUCTORS (MOTORS): COPPER
   e. [BLANK] OR [CU] INDICATES COPPER CONDUCTOR
5. PROVIDE GROUNDING ELECTRODE AND BONDING SYSTEM PER CODE REQUIREMENTS. PROVIDE THE FOLLOWING MINIMUM CONNECTIONS AND COMPONENTS. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDING AND BONDING AND DETAILS WHEN APPLICABLE:
   a. ELECTRICAL GROUND FIELD
   b. CONCRETE-ENCASED GROUNDING ELECTRODE (UFER)
   c. METALLIC WATER MAIN
   d. BUILDING STEEL, EFFECTIVELY GROUNDED
   e. INTERSYSTEM BONDING TERMINAL [IBT]
   f. GROUND RING ENCIRCLING STRUCTURE
6. PROVIDE O.Z GEDNEY OR EQUAL GROUND BUSHING FOR ALL SERVICE AND FEEDER RACEWAYS BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
7. CONDUCTORS AND GROUND SIZES ON THE LINE AND LOAD SIDES OF ALL DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
8. REFER TO COVER SHEET FOR ADDITIONAL EQUIPMENT TAG INFORMATION (SPD-#, M-#, ETC).
9. REFER TO GROUNDING ELECTRODE SYSTEM AND BONDING DETAILS
   a. EGC – EQUIPMENT GROUNDING CONDUCTOR
   b. GEC – GROUNDING ELECTRODE CONDUCTOR
   c. SSBJ – SUPPLY SIDE BONDING JUMPER
10. CIRCUIT BREAKER CHARACTERISTICS AND ACCESSORIES:
   a. [CB] INDICATES CIRCUIT BREAKER
   b. [FU] INDICATES FUSED SWITCH
   c. [NF] INDICATES NON-FUSED SWITCH
   d. [MLO] INDICATES MAIN LUG ONLY
   e. [MCB] INDICATES MAIN CIRCUIT BREAKER
   f. [MCCB] INDICATES MOLDED CASE CIRCUIT BREAKER
   g. [LSIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT]
   h. [GF] INDICATES GROUND FAULT RELAY
   i. [AER] INDICATES ARC ENERGY REDUCTION SYSTEM
   j. [100% RATED] INDICATES INSULATED CASE BREAKER RATED FOR FULL CONTINUOUS CAPACITY OF CIRCUIT BREAKER NAMEPLATE
   k. [DRAW] INDICATES DRAWOUT DEVICES
   l. [LOCK] INDICATES PADLOCK HASP
   m. [SHUNT] INDICATES SHUNT TRIP BREAKER

ELECTRICAL DISTRIBUTION AND PANEL SCHEDULE NOTES:

1. BRANCH PANEL KEY:
   a. *G = GROUND FAULT CIRCUIT INTERRUPT
   b. *P = PADLOCK HASP
   c. *R = RED HANDLE
   d. *ST = SHUNT TRIP



1 ELECTRICAL RISER DIAGRAM

NO SCALE

KEYNOTES: (#)

1. REFER TO 2/E5.0 FOR SERVICE ENTRANCE GROUNDING ELECTRODE DETAIL.
2. REFER TO 4/E5.0 FOR GENERATOR GROUNDING DETAIL.
3. UTILITY TRANSFORMER TO BE PROVIDED BY UTILITY COMPANY. E.C. TO PROVIDE CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS.

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PROJECT #22006578.00

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DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055

IN ASSOCIATION WITH

SHEET TITLE
ELECTRICAL DIAGRAMS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

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ELECTRICAL CONNECTION SCHEDULE

	ITEM	VOLTAGE	LOAD CLASS.	MOTORS QTY	@	HP	ELECTRIC HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP	OCPD	CIRCUIT NUMBER	DISCONNECT BY	DISCONNECT TYPE	CONTROLLER / STARTER BY	CONTROLLER / STARTER TYPE
DP-1																	
	ELEVATOR	208 V, 3Ø	Motor	1	@	10	0	11.10 kVA	30.8 A	38.5 A	60 A	60 A	5	EC	F	--	--
	RTU-1 CIRCUIT #1	208 V, 3Ø	HVAC	0	-	0	0	58.90 kVA	0 A	163.7 A	225 A	225 A	4	MFR	NF	MFR	VFD
E1																	
	FACP-1	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	15 A	1	--	--	--	--
	FURNITURE	120 V, 1Ø	Power	0	-	0	0	1.50 kVA	0 A	0 A	0 A	20 A	16	--	--	--	--
	RTU-1 CIRCUIT #2	208 V, 3Ø	HVAC	0	-	0	0	17.40 kVA	0 A	60.7 A	70 A	70 A	17,19,21	MFR	NF	MFR	VFD
	UH-1	208 V, 3Ø	HVAC Heating Only	1	@	0.01	5	5.01 kVA	13.9 A	20.3 A	25 A	25 A	18,20,22	MFR.	NF	MFR	--
	UH-2	208 V, 3Ø	HVAC Heating Only	1	@	0.01	5	5.01 kVA	13.9 A	20.3 A	25 A	25 A	24,26,28	MFR.	NF	MFR	--
L1																	
	CAB-1	208 V, 3Ø	HVAC Heating Only	1	@	0.15	5.7	5.73 kVA	15.9 A	22.8 A	25 A	25 A	56,58,60	MFR	NF	MFR	--
	CAB-2	208 V, 1Ø	HVAC Heating Only	1	@	0.1	3.6	3.60 kVA	17.3 A	24.6 A	30 A	30 A	57,59	MFR	NF	MFR	--
	CAB-3	208 V, 1Ø	HVAC Heating Only	1	@	0.1	3.6	3.60 kVA	17.3 A	24.6 A	30 A	30 A	61,63	MFR	NF	MFR	--
	CP-1	120 V, 1Ø	Motor	0	-	0	0	0.20 kVA	0 A	0 A	0 A	15 A	69	--	--	--	--
	EF-1	120 V, 1Ø	HVAC	1	@	0.1	0	0.53 kVA	4.4 A	5.5 A	15 A	15 A	5	EC	NF	MFR	MS
	EF-2	120 V, 1Ø	HVAC	1	@	0.1	0	0.53 kVA	4.4 A	5.5 A	15 A	15 A	5	EC	NF	MFR	MS
	FTAB-101	208 V, 3Ø	HVAC	1	@	0.5	9	9.86 kVA	27.4 A	34.2 A	40 A	40 A	21,23,25	MFR	NF	MFR	--
	FTAB-102	208 V, 3Ø	HVAC	1	@	0.5	7	7.86 kVA	21.8 A	27.3 A	30 A	30 A	27,29,31	MFR	NF	MFR	--
	MONITOR	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	20 A	70	--	--	--	--
	MONITOR	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	20 A	70	--	--	--	--
	MONITOR	120 V, 1Ø	Power	0	-	0	0	0.80 kVA	0 A	0 A	0 A	20 A	71	--	--	--	--
	MONITOR	120 V, 1Ø	Power	0	-	0	0	0.80 kVA	0 A	0 A	0 A	20 A	71	--	--	--	--
	PARTITION	208 V, 3Ø	Power	1	@	1	0	1.66 kVA	4.6 A	5.8 A	15 A	15 A	62,64,66	--	--	--	--
	SHADES	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	15 A	55	--	--	--	--
	SP-1	120 V, 1Ø	Motor	1	@	1	0	1.92 kVA	16 A	20 A	30 A	30 A	44	--	--	--	--
	TAB-103	208 V, 3Ø	HVAC	0	-	0	5	5.00 kVA	13.9 A	17.3 A	20 A	20 A	30,32,34	EC	NF	MFR	--
	TAB-104	208 V, 3Ø	HVAC	0	-	0	11.5	11.50 kVA	31.9 A	39.9 A	40 A	40 A	33,35,37	EC	NF	MFR	--
	TAB-105	208 V, 3Ø	HVAC	0	-	0	11.5	11.50 kVA	31.9 A	39.9 A	40 A	40 A	36,38,40	EC	NF	MFR	--
	TAB-106	208 V, 3Ø	HVAC	0	-	0	2	2.00 kVA	5.6 A	6.9 A	15 A	15 A	39,41,43	EC	NF	MFR	--
	WH-1	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	15 A	42	EC	NF	--	--
L2																	
	EF-3	120 V, 1Ø	HVAC	1	@	0.25	0	0.70 kVA	5.8 A	7.3 A	15 A	15 A	29	EC	NF	MFR	SPEED CONTROLLER
	EF-4	120 V, 1Ø	HVAC	1	@	0.17	0	0.53 kVA	4.4 A	5.5 A	15 A	15 A	31	EC	NF	MFR	SPEED CONTROLLER
	FTAB-201	208 V, 3Ø	HVAC	1	@	0.5	9	9.86 kVA	27.4 A	34.2 A	40 A	40 A	32,34,36	MFR	NF	MFR	--
	SHADES	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	20 A	71	--	--	--	--
	SHADES	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	20 A	71	--	--	--	--
	SS-1	208 V, 1Ø	HVAC	0	-	0	0	0.00 kVA	0 A	0 A	0 A	20 A	73,75	--	--	--	--
	SS-1	208 V, 1Ø	HVAC	0	-	0	0	2.29 kVA	0 A	11 A	28 A	20 A	73,75	--	--	--	--
	TAB-202	208 V, 3Ø	HVAC	0	-	0	2.5	2.50 kVA	6.9 A	8.7 A	15 A	15 A	33,35,37	EC	NF	MFR	--
	TAB-203	208 V, 3Ø	HVAC	0	-	0	3.5	3.50 kVA	9.7 A	12.1 A	15 A	15 A	38,40,42	EC	NF	MFR	--
	TAB-204	208 V, 3Ø	HVAC	0	-	0	2.5	2.50 kVA	6.9 A	8.7 A	15 A	15 A	39,41,43	EC	NF	MFR	--
	TAB-205	208 V, 3Ø	HVAC	0	-	0	3	3.00 kVA	8.3 A	10.4 A	15 A	15 A	45,47,49	EC	NF	MFR	--
	TAB-206	208 V, 3Ø	HVAC	0	-	0	4	4.00 kVA	11.1 A	13.9 A	15 A	15 A	50,52,54	EC	NF	MFR	--
	TAB-207	208 V, 3Ø	HVAC	0	-	0	1.5	1.50 kVA	4.2 A	5.2 A	15 A	15 A	62,64,66	EC	NF	MFR	--
	TAB-208	208 V, 3Ø	HVAC	0	-	0	8	8.00 kVA	22.2 A	27.8 A	30 A	30 A	51,53,55	EC	NF	MFR	--
	TAB-209	208 V, 3Ø	HVAC	0	-	0	6	6.00 kVA	16.7 A	20.8 A	25 A	25 A	56,58,60	EC	NF	MFR	--
	TAB-210	208 V, 3Ø	HVAC	0	-	0	1.5	1.50 kVA	4.2 A	5.2 A	15 A	15 A	57,59,61	EC	NF	MFR	--
	TAB-211	208 V, 3Ø	HVAC	0	-	0	2.5	2.50 kVA	6.9 A	8.7 A	15 A	15 A	63,65,67	EC	NF	MFR	--
	TAB-212	208 V, 3Ø	HVAC	0	-	0	2.5	2.50 kVA	6.9 A	8.7 A	15 A	15 A	68,70,72	EC	NF	MFR	--
	TAB-213	208 V, 3Ø	HVAC	0	-	0	1.5	1.50 kVA	4.2 A	5.2 A	15 A	15 A	44,46,48	EC	NF	MFR	--
	TV BACKBOX	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	15 A	10	--	--	--	--
	TV BACKBOX	120 V, 1Ø	Power	0	-	0	0	0.50 kVA	0 A	0 A	0 A	15 A	69	--	--	--	--

LIGHTING CONTROL SEQUENCE DESCRIPTION:

PLAN ID	LIGHTING CONTROL SEQUENCE DESCRIPTION:
{LS1}	Sequence: Switched lights are controlled in this space. ON: The lights turn on via photocell. OFF: The lights will automatically turn off via photocell.
{LS2}	Sequence: Switched lights are controlled in this space. ON: The lights are turned on via an outdoor photocell when insufficient daylight is available. OFF: The lights will automatically be reduced by 30% at 24:00 till 06:00.
{LS3}	Sequence: Switched lights are controlled in this space. ON: The lights will automatically turn on 15 minutes before sunset. OFF: The lights will automatically turn off at 24:00.
{LS4}	Sequence: Switched multi-level lights are controlled in this space. ON: The lights in the space will automatically turn on to 100% when the space becomes occupied. ADJUST: The lights are controlled using sensors for light level reduction of at least 50%. OFF: After the space has been vacant for 30 minutes, the lights will reduce to a minimum of 50% reduction.
{LS5}	Sequence: Switched lights are controlled in this space. ON: The lights turn on using switches. OFF: The lights turn off using switches.
{LS6}	Sequence: Switched lights are controlled in this space. ON: The lights turned on using switches. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LS7}	Sequence: Switched lights are controlled in this space. ON: The lights are turn on by occupancy sensor. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LS8}	Sequence: Switched lights and exhaust fan are controlled in this space. ON: The lights turn on by occupancy sensor. Exhaust fan is turned on by occupancy sensor. OFF: The lights turn off after the space has been vacant for 15 minutes. Exhaust fan is turned off after toilets are vacant for 15 minutes.
{LS9}	Sequence: Switched lights are controlled in this space. ON: The normal lights turn on by occupancy sensors in corridor. Night lights will remain on at all times. OFF: The normal lights turn off after the space has been vacant for 15 minutes.
{LC1}	Sequence: Switched lights are controlled in this space. ON: The normal lights turn on by the central schedule. Night lights will remain on at all times. Local over-ride switches shall provide 120 minutes of lights on. OFF: The normal lights turn off by the central time clock sweep.
{LD1}	Sequence: Dimmed lights are controlled in this space. ON: The lights turned on using a wall control. ADJUST: The lights are raised / lowered using a wall controller. OFF: The lights turn off using a wall controller. After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LD2}	Sequence: Dimmed lights are controlled in this space. ON: The lights turned on using a wall control or at last switched state upon occupancy. ADJUST: The dimmable lights are raised / lowered using a wall controller. OFF: The lights may be turned off using a wall controller. After the space has been vacant for 15 minutes, the lights will automatically turn off.

LED LUMINAIRE SCHEDULE

(DESC) DOOR:
FA - FLAT ALUMINUM
FS - FLAT STEEL
RA - REGRESSED ALUMINUM
RS - REGRESSED STEEL
FINISH:
PAF - PAINT AFTER FABRICATION
CFSA - COLOR-FINISH SELECTION BY ARCHITECT

DISTRIBUTION:
II - ANSI/IES TYPE 2 DISTRIBUTION
III - ANSI/IES TYPE 3 DISTRIBUTION
IV - ANSI/IES TYPE 4 DISTRIBUTION
V - ANSI/IES TYPE 5 DISTRIBUTION

BEAMWIDTH:
NSP - VERY NARROW SPOT
SP - SPOT
MD - MEDIUM
WD - WIDE
VWD - VERY WIDE
WW - WALL WASH

(L/L) LENS/LOUVER:
A - .125"ACRYLIC
B - BAFFLE/LOUVER
C - CLEAR ALZAK
F - FROSTED ACRYLIC
G - TEMPERED GLASS
K - KSH12 .125" ACRYLIC
K19 - KSH19 .156" ACRYLIC
M – MATTE DIFFUSE CLEAR
N - NONE
P - POLYCARBONATE
R - HIGH IMPACT DR ACRYLIC
SS – SEMI-SPECULAR CLEAR
O - OTHER (SEE DESCRIPTION)
[DESIGN SPECIFIC BLANKS]

(MTG) MOUNTING:
CL - CEILING SURFACE
CV - COVE
FR - FLANGED RECESSED
P - PERIMETER
PL - POLE
RE - RECESSED
SP - SUSPENDED
SU - SURFACE
UC - UNDER CABINET
WL - WALL
O - OTHER (SEE DESCRIPTION)

(WATT) PER: FIX - FIXTURE, FT - FOOT, LAMP

(TYPE) LED
LED - LIGHT EMITTING DIODE
TLED - TUBULAR LED LAMP
OLED - ORGANIC LED
DLED - DYNAMIC TUNABLE LED
RGB - COLOR CHANGING LED
RGBW - COLOR CHANGING + WHITE
RGBA - COLOR CHANGING + AMBER
RLED - RETROFIT LED
WLED - WARM DIM LED

(TYPE) DRIVER:
0-10V - 0-10V DIMMING
DALI - DIGITAL ADDRESSABLE
DMX - DIGITAL MULTIPLEX
EB - ELECTRONIC
ELV - ELECTRONIC LOW VOLTAGE
EM - EMERGENCY BATTERY
HL - HIGH/LOW (100%/50%) STEP DIM
LINE - LINE VOLTAGE DIMMING
ML - MULTI-LEVEL SWITCHING
MV - MULTI-VOLTAGE ELECTRONIC
REM - REMOTE
O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
INTERIOR CORRELATED COLOR TEMPERATURE 4000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
EXTERIOR CORRELATED COLOR TEMPERATURE 4000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	L/L	MTG	DIMENSIONS L	W	H	DIA	WATT MAX ANSI	PER	LED TYPE	QTY	DELIVERED LUMENS (MIN)	DRIVER VOLTS	TYPE	APPROVED MANUFACTURER / SERIES
F1	LED TROFFER WITH CENTER DIFFUSED PRISMATIC LENS. ONE PIECE STEEL REFLECTOR AND HOUSING. MATTE WHITE FINISH.	O	RE	48"	24"	3.91"	NA	31	FIX	LED	1	4000	120V	0-10V	FOCAL POINT FEQ2 SERIES OR PRE-APPROVED EQUAL
F1A	SIMILAR TO F1 BUT WITH DRYWALL CEILING ADAPTER.	O	RE	48"	24"	3.91"	NA	31	FIX	LED	1	4000	120V	0-10V	FOCAL POINT FEQ2 SERIES OR PRE-APPROVED EQUAL
F2	LED TROFFER WITH CENTER DIFFUSED PRISMATIC LENS. ONE PIECE STEEL REFLECTOR AND HOUSING. MATTE WHITE FINISH.	O	RE	24"	24"	3.91"	NA	27	FIX	LED	1	3000	120V	0-10V	FOCAL POINT FEQ2 SERIES OR PRE-APPROVED EQUAL
F3	4" LINEAR FIXTURE. ONE PIECE EXTRUDED ALUMINUM HOUSING. EXTRUDED ACRYLIC LENS WITH SATIN FINISH. BATWING DISTRIBUTION. REFER TO DRAWINGS FOR EXACT LENGTH OF FIXTURE.	O	RE	X"	4"	3.85"	NA	7	FT	LED	1	750 LUMENS/FT	120V	0-10V	FOCAL POINT FSM4L SERIES OR PRE-APPROVED EQUAL
F4	ROUND LED DOWNLIGHT. CLEAR REFLECTOR WITH SEMI-SPECULAR FINISH. 50 DEGREE BEAM ANGLE.	O	RE	NA	NA	7"	4"	21.5	FIX	LED	1	2000	120V	0-10V	GOTHAM EVO4 SERIES OR PRE-APPROVED EQUAL
F4A	SIMILAR TO F4 BUT WITH A LOWER LUMEN PACKAGE.	O	RE	NA	NA	7"	4"	15	FIX	LED	1	1500	120V	0-10V	GOTHAM EVO4 SERIES OR PRE-APPROVED EQUAL
F5	LINEAR STRIP FIXTURE. CODE-GAUGE COLD-ROLLED STEEL CHANNEL. ROUND DIFFUSED ACRYLIC LENS. ABLE TO BE SUSPENDED OR SURFACE MOUNTED.	O	SU/SP	48"	3.5"	3.5"	NA	30	FIX	LED	1	4000	120V	0-10V	LITHONIA CSS SERIES OR PRE-APPROVED EQUAL
F6	2" SUSPENDED LINEAR FIXTURE. FROSTED ACRYLIC LENS. BATWING DISTRIBUTION. FINISH TO BE SELECTED BY ARCHITECT. REFER TO DRAWINGS FOR EXACT LENGTH.	O	SP	X"	2"	4.5"	NA	7	FT	LED	1	750 LUMENS/FT	120V	0-10V	FOCAL POINT FSM2LS SERIES OR PRE-APPROVED EQUAL
F7	VANITY LIGHT FIXTURE. ACRYLIC DIFFUSER WITH UP AND DOWN LIGHT. STEEL AND ALUMINUM BODY.	O	WL	18"	2.5"	2.25"	NA	24	FIX	LED	1	1200	120V	0-10V	MODERNFORMS CINCH OR PRE-APPROVED EQUAL
F8	6" ROUND VANDAL RESISTANT DOWNLIGHT. TEMPERED FLUSH OPAL GLASS LENS. SEMI-SPECULAR FINISH. MEDIUM DISTRIBUTION. FLANGE FINISH TO BE SELECTED BY ARCHITECT.	O	RE	NA	NA	7"	6"	19	FIX	LED	1	2500	120V	0-10V	GOTHAM EVO6VR SERIES OR PRE-APPROVED EQUAL
F9	2" LINEAR FIXTURE. ONE PIECE EXTRUDED ALUMINUM HOUSING. EXTRUDED ACRYLIC LENS WITH SATIN FINISH. FLUSH LENS. REFER TO DRAWINGS FOR EXACT LENGTH OF FIXTURE.	O	RE	X"	2"	3.85"	NA	3.25	FT	LED	1	375 LUMENS/FT	120V	0-10V	FOCAL POINT FSM2L SERIES OR PRE-APPROVED EQUAL
F10	2" LINEAR PERIMETER FIXTURE. ONE PIECE EXTRUDED ALUMINUM HOUSING. FLUSH ASYMMETRIC ROOM FILL DISTRIBUTION. FIXED HOUSING. REFER TO DRAWINGS FOR EXACT LENGTH.	O	RE	X"	2"	4.5"	NA	3	FT	LED	1	250 LUMENS/FT	120V	0-10V	FOCAL POINT FSM2PR SERIES OR PRE-APPROVED EQUAL
F11	LINEAR STRIP FIXTURE FOR STAIRWELL. SURFACE MOUNT. DIE-FORMED STEEL CHANNEL WITH ACRYLIC DIFFUSER. INCLUDED WITH INTEGRAL OCCUPANCY SENSOR. FIXTURE TO SWITCH FROM ON TO 50% UPON VACANCY.	O	WL	48"	3"	3.5"	NA	30	FIX	LED	1	4000	120V	0-10V	COLUMBIA ESL LITHONIA WL OR PRE-APPROVED EQUAL
F12	EXTERIOR LINEAR WALL GRAZER. EXTRUDED ALUMINUM HOUSING. FROSTED LENS. 8X8 OPTICS. 48" LENGTH SECTIONS. REFER TO DRAWINGS FOR NUMBER OF FIXTURES NEEDED. IP66 RATED. PROVIDE WITH JUMPER CABLES TO COMBINE FIXTURES.	O	SU	48"	1.5"	2"	NA	4	FT	LED	1	400 LUMENS/FT	120V	0-10V	LUMENPULSE LUMENFACADE NANO OR PRE-APPROVED EQUAL
W1	WALL MOUNT LINEAR FLOOR LUMINAIRE. EXTRUDED ALUMINUM HOUSING. DIFFUSED LENS. 25 x 120 DEGREE DISTRIBUTION. PROVIDE WITH WALL MOUNT BRACKET TO AIM UP WALL. STATIC WHITE.	O	WL	24"	3.25"	4"	NA	35	FIX	LED	1	4000	120V	0-10V	HYDREL 4750L OR PRE-APPROVED EQUAL
W2	RECTANGULAR WALL PACK. DIE-CAST ALUMINUM ALLOY HOUSING. CLEAR TEMPERED GLASS LENS. IP66 RATED. FINISH TO BE SELECTED BY ARCHITECT.	O	WL	6.3"	3.5"	6.3"	NA	24	FIX	LED	1	2900	120V	0-10V	LITHONIA WPX1 OR PRE-APPROVED EQUAL
W3	WALL MOUNT LUMINAIRE. EXTRUDED ALUMINUM HOUSING. ZERO UPLIGHT. TYPE III DISTRIBUTION. FINISH TO BE SELECTED BY ARCHITECT.	O	WL	10"	8"	10"	NA	16	FIX	LED	1	1365	120V	0-10V	HESS LINEA 950 OR PRE-APPROVED EQUAL
P1	SITE LUMINAIRE, ALUMINUM DIE-CAST, EXTRUDED HOUSING, GASKETED, TYPE III DISTRIBUTION, CFSA, LISTED WET LOCATION.	O	PL	33"	13"	7 1/2"	N/A	68	FIX	LED	1	9763	120V	0-10V	LITHONIA D SERIES DSX1 OR PRE-APPROVED EQUAL
P1A	SIMILAR TO P1 WITH RCCO DISTRIBUTION.	O	PL	33"	13"	7 1/2"	N/A	68	FIX	LED	1	9763	120V	0-10V	LITHONIA D SERIES DSX1 OR PRE-APPROVED EQUAL
P1B	SIMILAR TO P1 WITH LCCO DISTRIBUTION.	O	PL	33"	13"	7 1/2"	N/A	68	FIX	LED	1	9763	120V	0-10V	LITHONIA D SERIES DSX1 OR PRE-APPROVED EQUAL
S1	GROUND MOUNT FLOODLIGHT. DIE-CAST ALUMINUM HOUSING. MEDIUM BEAM SPREAD. IP66 RATED. FINISH TO BE SELECTED BY ARCHITECT.	O	PL	10"	4"	7"	N/A	40	FIX	LED	1	4000	120V	EB	KIM LIGHTING KFL1 LITHONIA DSXF1 OR PRE-APPROVED EQUAL
S2	GROUND MOUNT FLOODLIGHT. NARROW FLOOD. IP66 RATED. FINISH TO BE SELECTED BY ARCHITECT.	O	PL	7.5"	2.9"	7.9"	NA	26	FIX	LED	1	3300	120V	EB	KIM LIGHTING KFL1 LITHONIA DSXF1 OR PRE-APPROVED EQUAL
EX1	SINGLE FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRROR LENS AND EXTRUDED ALUMINUM HOUSING, EDGE LIT. GREEN LETTERS, CLEAR BACKGROUND. EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, HOUSING FINISH SELECTED BY ARCHITECT. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS.	O	CL WL	13"	2"	8"	N/A	4	FIX	LED	1	4 WATT LED.	120V	EM	ACUITY LITHONIA LRP HUBBELL DUAL-LITE LE SIGNIFY CHLORIDE 44R OR PRE-APPROVED EQUAL
EX2	DOUBLE FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRROR LENS AND EXTRUDED ALUMINUM HOUSING, EDGE LIT. GREEN LETTERS, MIRROR BACKGROUND. EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, HOUSING FINISH SELECTED BY ARCHITECT. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS.	O	CL WL	13"	1"	8"	N/A	4	FIX	LED	2	4 WATT LED.	120V	EM	ACUITY LITHONIA LRP HUBBELL DUAL-LITE LE SIGNIFY CHLORIDE 44R OR PRE-APPROVED EQUAL

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	**ACCESSORIES & OPTIONS**	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		
AMS-ASSEMBLED MOTOR STARTER		

ITEM	DISCONNECT TYPE & RATING TYPE	RATING	TRIP RATING	VOLTAGE	POLES	STARTER NEMA SIZE	STARTER TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
MX-EF-3		30 A		120 V	1	0	MX	NEMA 4		
MX-WH-1		30 A		120 V	1	0	MX	NEMA 4		
MX-EF-4		30 A		120 V	1	0	MX	NEMA 4		
FDS-ELEVATOR	FU	60 A	60 A	208 V	3			NEMA 3R		
DS-TAB-208	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-202	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-203	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-204	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-205	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-206	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-207	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-209	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-210	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-211	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-212	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-213	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-103	NF	30 A	30 A	208 V	3			NEMA 1		
DS-TAB-106	NF	30 A	30 A	208 V	3			NEMA 1		
CS-EF-2	NF	30 A	30 A	208 V	3	1	FV	NEMA 1	SA	
CS-EF-1	NF	30 A	30 A	208 V	3	1	FV	NEMA 1	SA	
DS-TAB-105	NF	60 A	60 A	208 V	3			NEMA 1		
DS-TAB-104	NF	60 A	60 A	208 V	3			NEMA 1		

TRANSFER SWITCH SCHEDULE

SWITCH TYPE:	**ACCESSORIES & OPTIONS**
AUTO - AUTOMATIC	EE - ENGINE EXERCISER
B/I - AUTOMATIC WITH BYPASS ISOLATION	IM - IN-PHASE MONITOR
MAN - MANUAL OPERATION	SH - STRIP HEATER WITH THERMOSTAT
PGLB - PORTABLE GENERATOR & LOAD BANK CABINET	RM - REMOTE ANNUNCIATOR
STAT - STATIC SOLID STATE	RC - REMOTE CONTROL CIRCUITS
SWITCH CONFIGURATION (CONFIG):	EL - ELEVATOR EMERGENCY TO NORMAL PRESIGNAL
CT - CLOSED TRANSITION	SP - SERIAL COMMUNICATIONS PORT
DT - DELAYED TRANSITION - CENTER OFF	PM - POWER MONITORING METER
30 - 30 CYCLE WITHSTAND RATING	RTC - REMOTE TRANSFER CONTROL FROM FIRE COMMAND CENTER
SE - SERVICE ENTRANCE LISTED	RMC - REMOTE ANNUNCIATION AT FIRE COMMAND CENTER
SN - SWITCHED NEUTRAL	TI - TRANSFER INHIBIT
ON - OVERLAPPING SWITCHED NEUTRAL	LS - LOAD SHED (PROVIDE DELAYED TRANSISTION - CENTER OFF CONFIGURATION)
DN - SOLID NEUTRAL	

ITEM	SWITCH TYPE AND CONFIG	VOLTAGE	POLES	AMPS	SCCR	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	PRIORITY GROUP	BRANCH	COMMENTS
ATS-1	AUTO, ON	208 V	3	150 A	65 kA	NEMA 1	EE	1	EMERGENCY	

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #22006578.00

SHEET TITLE
ELECTRICAL SCHEDULES

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023
REV. NO. DATE

PROJECT NUMBER
2022213.02

SHEET
E6.0

DISTRIBUTION PANEL DP-1

ENCLOSURE: NEMA PB 1
FED FROM: UTILITY TRANSFORMER
LOCATION: MECHANICAL ROOM 103
SPD: SPD-1
METER: DPM

SOLID NEUTRAL
GROUND BUS

MAIN: 1,000 A MCB [LSIG]
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC: 42.69 kA

NOTES: **SERVICE ENTRANCE RATED.**

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	L1	98.14 kVA	3	400 A	400 A	CB		4#500KCM & 1#3 GND IN 3 1/2" C.	
2	L2	79.31 kVA	3	400 A	400 A	CB		4#500KCM & 1#3 GND IN 3 1/2" C.	
3	ATS-1	39.28 kVA	3	150 A	150 A	CB		4#1/0 & 1#6 GND IN 2" C.	
4	RTU-1 CIRCUIT #1	58.9 kVA	3	225 A	225 A	CB		3#4/0 & 1#4 EGC IN 2" C.	
5	ELEVATOR	11.1 kVA	3	60 A	60 A	CB		3#8 & 1#10 EGC IN 3/4" C.	ST
6	SPD-1	0 kVA	3	60 A	60 A	CB		4#4 & 1#10 EGC IN 1 1/4" C.	
7	SPACE FOR (3) 100A/3P CIRCUIT BREAKERS	--	3	--	--	--	--	--	--

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	177.462 kVA	100.00%	177.462 kVA		
HVAC Heating Only	22.94 kVA	100.00%	22.94 kVA	**TOTAL CONNECTED LOAD:**	286.73 kVA
Lighting	8.342 kVA	100.00%	8.342 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	263.973 kVA
Motor	13.216 kVA	100.00%	13.216 kVA	**TOTAL CONNECTED AMPS:**	795.88 A
Power	9.257 kVA	100.00%	9.257 kVA	**TOTAL ESTIMATED DEMAND AMPS:**	732.7 A
Receptacles	55.51 kVA	59.01%	32.755 kVA		

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: ST=SHUNT TRIP CIRCUIT BREAKER

PANEL L1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 400 A/3P CB @ DP-1
LOCATION: MECHANICAL ROOM 103

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 42 kA
ISC: 34.26 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	LIGHTING	20 A	1	10	10	10	2.55	0.91	0.46					2.13	10	8	8	1	20 A	SITE LIGHTING	2	
	3	LIGHTING	20 A	1	8	8	8	2.96			1.5	0				10	8	8	1	20 A	SITE LIGHTING	4	
	5	EF-1, EF-2	15 A	1	10	10	10	2.21					1.06	0.25		10	8	8	1	20 A	SITE LIGHTING	6	
	7	RECEPTACLES	20 A	1	12	12	12	1.44	1.26	0.36					0.4	12	12	12	1	20 A	RECEPTACLES	8	
	9	RECEPTACLES	20 A	1	12	12	12	0.63			0.36	0.67			1.05	12	12	12	1	20 A	EWC-1	10	G
	11	RECEPTACLES	20 A	1	12	12	12	1.73					1.26	0.72	1.3	12	12	12	1	20 A	RECEPTACLES	12	
	13	RECEPTACLES	20 A	1	12	12	12	1.39	0.72	1.44					2.6	12	12	12	1	20 A	RECEPTACLES	14	
	15	REFRIGERATOR	20 A	1	12	12	12	1.67			0.8	1.44			2.11	10	10	10	1	20 A	RECEPTACLES	16	
G	17	FREEZER	20 A	1	12	12	12	2.02					1	1.8	2.41	10	10	10	1	20 A	RECEPTACLES	18	
G	19	MICROWAVE	20 A	1	12	12	12	0.37	0.18	1.44					2.55	10	10	10	1	20 A	RECEPTACLES	20	
	21	FTAB-101	40 A	3	8	--	10	0.61			3.29	1.08			2.71	12	12	12	1	20 A	RECEPTACLES	22	
--	23	--	--	--	--	--	--	--					3.29	1.44	2.33	10	10	10	1	20 A	RECEPTACLES	24	
--	25	--	--	--	--	--	--	--	3.29	0.9					1.04	12	12	12	1	20 A	RECEPTACLES	26	
	27	FTAB-102	30 A	3	10	--	10	0.96			2.62	0.72			2.19	12	12	12	1	20 A	RECEPTACLES	28	
--	29	--	--	--	--	--	--	--					2.62	1.67	1.41	12	12	12	3	20 A	TAB-103	30	
--	31	--	--	--	--	--	--	--	2.62	1.67					--	--	--	--	--	--	--	32	--
	33	TAB-104	40 A	3	8	8	10	1.48			3.83	1.67			--	--	--	--	--	--	--	34	--
--	35	--	--	--	--	--	--	--					3.83	3.83	1.19	10	8	8	3	40 A	TAB-105	36	
--	37	--	--	--	--	--	--	--	3.83	3.83					--	--	--	--	--	--	--	38	--
	39	TAB-106	15 A	3	12	12	12	0.34			0.67	3.83			--	--	--	--	--	--	--	40	--
--	41	--	--	--	--	--	--	--					0.67	0.5	0.38	12	12	12	1	15 A	WH-1	42	
--	43	--	--	--	--	--	--	--	0.67	1.92					2.2	12	12	12	1	30 A	SP-1	44	
	45	RECEPTACLES	20 A	1	12	12	12	0.17			0.18	1.2			1.72	12	12	12	1	20 A	SINK	46	G
G	47	SINK	20 A	1	12	12	12	2.5					1.2	1.2	1.63	12	12	12	1	20 A	SINK	48	G
G	49	SINK	20 A	1	12	12	12	2.6	1.2	0					--	--	--	--	1	20 A	SPARE	50	--
G	51	SINK	20 A	1	12	12	12	2.7			1.2	0.72			0.98	12	12	12	1	20 A	RECEPTACLES	52	
--	53	SPARE	20 A	1	--	--	--						0	0.72	1.18	12	12	12	1	20 A	RECEPTACLES	54	
	55	SHADES	15 A	1	12	12	12	1.6	0.5	1.91					0.33	10	--	10	3	25 A	CAB-1	56	
	57	CAB-2	30 A	2	10	--	10	2.47			1.8	1.91			--	--	--	--	--	--	--	58	--
--	59	--	--	--	--	--	--	--					1.8	1.91	--	--	--	--	--	--	--	60	--
	61	CAB-3	30 A	2	10	--	10	2.62	1.8	0.55					0.39	12	--	12	3	15 A	PARTITION	62	
--	63	--	--	--	--	--	--	--			1.8	0.55			--	--	--	--	--	--	--	64	--
	65	RECEPTACLES	20 A	1	12	12	12	0.96					0.36	0.55	--	--	--	--	--	--	--	66	--
	67	RECEPTACLES	20 A	1	12	12	12	1.01	0.36	0					--	--	--	--	1	20 A	SPARE	68	--
	69	CP-1	15 A	1	12	12	12	0.15			0.2	1			2.57	12	12	12	1	20 A	MONITORS	70	
	71	MONITORS	20 A	1	12	12	12						1.6	0		--	--	--	1	20 A	SPARE	72	--
--	73	SPARE	20 A	1	--	--	--		0	0					--	--	--	--	1	20 A	SPARE	74	--
--	75	SPARE	20 A	1	--	--	--				0	0			--	--	--	--	1	20 A	SPARE	76	--
--	77	SPARE	20 A	1	--	--	--						0	0	--	--	--	--	1	20 A	SPARE	78	--
--	79	SPARE	20 A	1	--	--	--		0	0					--	--	--	--	1	20 A	SPARE	80	--
--	81	SPARE	20 A	1	--	--	--				0	0			--	--	--	--	1	20 A	SPARE	82	--
--	83	SPARE	20 A	1	--	--	--						0	0	--	--	--	--	1	20 A	SPARE	84	--
								Total Load:	31.83 kVA		33.04 kVA		33.28 kVA										
								Total Amps:	265.21		276.90		278.86										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	48.785 kVA	100.00%	48.785 kVA		
HVAC Heating Only	12.925 kVA	100.00%	12.925 kVA	**TOTAL CONNECTED LOAD:**	98.14 kVA
Lighting	3.124 kVA	100.00%	3.124 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	90.177 kVA
Motor	2.12 kVA	100.00%	2.12 kVA	**TOTAL CONNECTED AMPS:**	272.41 A
Power	5.257 kVA	100.00%	5.257 kVA	**TOTAL ESTIMATED DEMAND AMPS:**	250.3 A
Receptacles	25.93 kVA	69.28%	17.965 kVA		

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: G=GFCI CIRCUIT BREAKER

PANEL L2

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 400 A/3P CB @ DP-1
LOCATION: DATA CENTER 201

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 42 kA
ISC: 28.60 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	LIGHTING	20 A	1	8	8	8	2.9	1.34	0					0.77	12	12	12	1	20 A	LC-1, LC-2	2	
	3	LIGHTING	20 A	1	10	10	10	2.42			1.03	0.36			0.62	12	12	12	1	20 A	RECEPTACLES	4	
	5	LIGHTING	20 A	1	12	12	12	2.84					0.83	0.9	0.79	12	12	12	1	20 A	RECEPTACLES	6	
	7	RECEPTACLES	20 A	1	12	12	12	1.4	1.08	1.44					2.92	12	12	12	1	20 A	RECEPTACLES	8	
	9	RECEPTACLES	20 A	1	12	12	12	2.13			1.08	0.5			0.79	12	12	12	1	15 A	TV BACKBOX	10	
	11	RECEPTACLES	20 A	1	12	12	12	1.7					0.72	1.26	2.68	12	12	12	1	20 A	RECEPTACLES	12	
	13	RECEPTACLES	20 A	1	12	12	12	2.03	1.08	1.08					2.15	10	10	10	1	20 A	RECEPTACLES	14	
	15	COPIER	20 A	1	10	10	10	2.03			1.5	1.62			2.5	10	10	10	1	20 A	RECEPTACLES	16	
	17	RECEPTACLES	20 A	1	10	10	10	2.41					1.08	1.48	2.76	10	10	10	1	20 A	RECEPTACLES	18	
	19	RECEPTACLES	20 A	1	12	12	12	0.54	0.18	0.18					0.56	12	12	12	1	20 A	RECEPTACLES	20	
	21	RECEPTACLES	20 A	1	12	12	12	0.52			0.18	0.36			1	12	12	12	1	20 A	RECEPTACLES	22	
	23	RECEPTACLES	20 A	1	12	12	12	2.35					1.08	0.18	0.51	12	12	12	1	20 A	RECEPTACLES	24	
	25	RECEPTACLES	20 A	1	12	12	12	1.82	1.08	1.5					2.64	10	10	10	1	20 A	MICROWAVE	26	G
	27	RECEPTACLES	20 A	1	12	12	12	2.01			0.72	0.8			2.36	12	12	12	1	20 A	REFRIGERATOR	28	G
	29	EF-3	15 A	1	12	12	12	0.7					0.7	0.8	2.18	12	12	12	1	20 A	RECEPTACLES	30	
	31	EF-4	15 A	1	12	12	12	1.64	0.53	3.29					0.73	10	--	8	3	40 A	FTAB-201	32	
	33	TAB-202	15 A	3	12	12	12	0.48			0.83	3.29			--	--	--	--	--	--	--	34	--
--	35	--	--	--	--	--	--	--					0.83	3.29	--	--	--	--	--	--	--	36	--
--	37	--	--	--	--	--	--	--	0.83	1.17					0.87	12	12	12	3	15 A	TAB-203	38	
	39	TAB-204	15 A	3	12	12	12	0.72			0.83	1.17			--	--	--	--	--	--	--	40	--
--	41	--	--	--	--	--	--	--					0.83	1.17	--	--	--	--	--	--	--	42	--
--	43	--	--	--	--	--	--	--	0.83	0.5					0.42	12	12	12	3	15 A	TAB-213	44	
	45	TAB-205	15 A	3	12	12	12	1.1			1	0.5			--	--	--	--	--	--	--	46	--
--	47	--	--	--	--	--	--	--					1	0.5	--	--	--	--	--	--	--	48	--
--	49	--	--	--	--	--	--	--	1	1.33					1.84	12	12	12	3	15 A	TAB-206	50	
	51	TAB-208	30 A	3	10	10	10	2.61			2.67	1.33			--	--	--	--	--	--	--	52	--
--	53	--	--	--	--	--	--	--					2.67	1.33	--	--	--	--	--	--	--	54	--
--	55	--	--	--	--	--	--	--	2.67	2					1.89	10	10	10	3	25 A	TAB-209	56	
	57	TAB-210	15 A	3	12	12	12	0.6			0.5	2			--	--	--	--	--	--	--	58	--
--	59	--	--	--	--	--	--	--					0.5	2	--	--	--	--	--	--	--	60	--
--	61	--	--	--	--	--	--	--	0.5	0.5					0.61	12	12	12	3	15 A	TAB-207	62	
	63	TAB-211	15 A	3	12	12	12	0.84			0.83	0.5			--	--	--	--	--	--	--	64	--
--	65	--	--	--	--	--	--	--					0.83	0.5	--	--	--	--	--	--	--	66	--
--	67	--	--	--	--	--	--	--	0.83	0.83					0.63	12	12	12	3	15 A	TAB-212	68	
	69	TV BACKBOX	15 A	1	12	12	12	1.74			0.5	0.83			--	--	--	--	--	--	--	70	--
	71	SHADES	20 A	1	10	10	10	2.24					1	0.83	--	--	--	--	--	--	--	72	--
	73	SS-1	20 A	2	12	12	12		1.14	0						--	--	--	1	20 A	SPARE	74	--
--	75	--	--	--	--	--	--	--			1.14	0				--	--	--	1	20 A	SPARE	76	--
--	77	SPARE	20 A	1	--	--	--						0	0		--	--	--	1	20 A	SPARE	78	--
--	79	SPARE	20 A	1	--	--	--		0	0						--	--	--	1	20 A	SPARE	80	--
--	81	SPARE	20 A	1	--	--	--				0	0				--	--	--	1	20 A	SPARE	82	--
--	83	SPARE	20 A	1	--	--	--						0	0		--	--	--	1	20 A	SPARE	84	--
								Total Load:	26.92 kVA		26.08 kVA		26.31 kVA										
								Total Amps:	224.60		217.35		219.56										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	52.377 kVA	100.00%	52.377 kVA		
Lighting	3.194 kVA	100.00%	3.194 kVA	**TOTAL CONNECTED LOAD:**	79.31 kVA
Power	2 kVA	100.00%	2 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	73.441 kVA
Receptacles	21.74 kVA	73.00%	15.87 kVA	**TOTAL CONNECTED AMPS:**	220.14 A
				TOTAL ESTIMATED DEMAND AMPS:	203.9 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: G=GFCI CIRCUIT BREAKER

INV-1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 20 A/2P @ E1
LOCATION: DATA CENTER 201

SOLID NEUTRAL

KVA RATING: 2.8 kVA
INPUT VOLTAGE: 208V
OUTPUT... 120V
PHASE: 1
WIRE: 3
SCCR: 10 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	LIGHTING	20 A	1	10	10	10	2.31	0.96	0						--	--	--	1	20 A	SPARE	2	--
	3	LIGHTING	20 A	1	10	10	10	2.88					1.06	0		--	--	--	1	20 A	SPARE	4	--
								Total Load:	0.96 kVA		0.00 kVA		1.06 kVA										
								Total Amps:	9.27		0.00		10.06										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	2.023 kVA	100.00%	2.023 kVA		
				TOTAL CONNECTED LOAD:	2.02 kVA
				TOTAL ESTIMATED DEMAND LOAD:	2.023 kVA
				TOTAL CONNECTED AMPS:	9.73 A
				TOTAL ESTIMATED DEMAND AMPS:	9.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 150 A/3P CB @ ATS-1
LOCATION: MECHANICAL ROOM 103
SPD: SPD-2

SOLID NEUTRAL
GROUND BUS

MAIN: 150 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 20.78 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
P,R	1	FACP-1	15 A	1	12	12	12	0.25	0.5	0						--	--	--	1	20 A	SPARE	2	--
	3	RECEPTACLES	20 A	1	12	12	12	0.4			0.72	0				--	--	--	1	20 A	SPARE	4	--
	5	RECEPTACLES	20 A	1	12	12	12	0.64					0.72	0.72	0.85	12	12	12	1	20 A	RECEPTACLES	6	
	7	RECEPTACLES	20 A	1	12	12	12	1	0.72	0.36					0.68	12	12	12	1	20 A	RECEPTACLES	8	
	9	RECEPTACLES	20 A	1	12	12	12	0.69			0.72	0.72			0.5	12	12	12	1	20 A	RECEPTACLES	10	
	11	INV-1	20 A	2	12	12	12	1.13					0.96	1	0.9	12	12	12	1	20 A	RECEPTACLES	12	
--	13	--	--	--	--	--	--	--	1.06	1					0.92	12	12	12	1	20 A	RECEPTACLES	14	
	15	RECEPTACLES	20 A	1	12	12	12	1.53			1.16	1.5			1.94	10	10	10	1	20 A	FURNITURE	16	
	17	RTU-1 CIRCUIT #2	70 A	3	4	--	8	1.3					5.8	1.67	0.26	10	--	10	3	25 A	UH-1	18	
--	19	--	--	--	--	--	--	--	5.8	1.67					--	--	--	--	--	--	--	20	--
--	21	--	--	--	--	--	--	--			5.8	1.67			--	--	--	--	--	--	--	22	--
--	23	SPARE	20 A	1	--	--	--						0	1.67	0.46	10	--	10	3	25 A	UH-2	24	
--	25	SPARE	20 A	1	--	--	--		0	1.67					--	--	--	--	--	--	--	26	--
--	27	SPARE	20 A	1	--	--	--				0	1.67			--	--	--	--	--	--	--	28	--
--	29	SPARE	20 A	1	--	--	--						0	0		--	--	--	1	20 A	SPARE	30	--
--	31	SPARE	20 A	1	--	--	--		0	0						--	--	--	1	20 A	SPARE	32	--
--	33	SPARE	20 A	1	--	--	--				0	0				--	--	--	1	20 A	SPARE	34	--
--	35	SPARE	20 A	1	--	--	--						0	0		--	--	--	1	20 A	SPARE	36	--
--	37	SPARE	20 A	1	--	--	--		0	0						10	10	10	3	30 A	SPD-2	38	
--	39	SPARE	20 A	1	--	--	--				0	0			--	--	--	--	--	--	--	40	--
--	41	SPARE	20 A	1	--	--	--						0	0	--	--	--	--	--	--	--	42	--
								Total Load:	12.78 kVA		13.96 kVA		12.54 kVA										
								Total Amps:	106.78		116.62		104.52										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	17.4 kVA	100.00%	17.4 kVA		
HVAC Heating Only	10.015 kVA	100.00%	10.015 kVA	**TOTAL CONNECTED LOAD:**	39.28 kVA
Lighting	2.023 kVA	100.00%	2.023 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	39.279 kVA
Power	2 kVA	100.00%	2 kVA	**TOTAL CONNECTED AMPS:**	109.03 A
Receptacles	7.84 kVA	100.00%	7.84 kVA	**TOTAL ESTIMATED DEMAND AMPS:**	109 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: P=PADLOCK HASP R=RED HANDLE

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #22006578.00

FEH DESIGN
OCONOMOWOC, WI (262) 968-2055
DUBUQUE, IA (563) 583-4900
DES MOINES, IA (515) 288-2000
SIOUX CITY, IA (712) 252-3889

IN ASSOCIATION WITH

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. DATE

PROJECT NUMBER
2022213.02

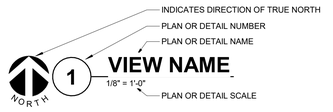
SHEET
E7.0

Autodesk Docs://22006578.00 - FEH-Polk City- IA-City Hall/MEP T22_22006578.00_20222 13 Polk City New City Hall_C.rvt
2/3/2023 9:22:14 AM

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

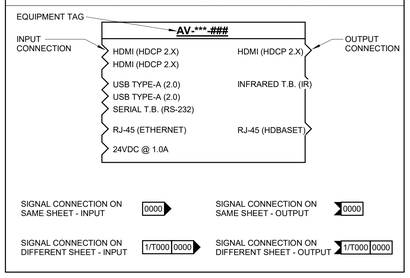
HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

AV FUNCTIONAL DIAGRAM KEY



TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
CSS	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	1.
R#	AC-R#-W	SECURITY CREDENTIAL READER (WALL)	.
A	AV-AN1-C	AV ANTENNA (CEILING)	.
M	AV-MP1-C/S	AV MICROPHONE (SURFACE)	.
S	AV-SP1-C	AV SPEAKER (CEILING)	.
CAM-#	AV-CAM-#	AV CAMERA (CEILING)	.
K	AV-KP1-W	AV KEYPAD (WALL)	.
TP#	AV-TP#-W	AV TOUCH PANEL (WALL)	.
###	AV-###-C/S	AV PLATE (CEILING/SURFACE)	.
###	AV-###-W	AV WALLPLATE/BACKBOX (WALL)	2.
CH	IC-CH1-W	DOOR BELL CHIME (WALL)	.
IM	IC-IM1-D	INTERCOM MASTER STATION (DESKTOP)	.
I	IC-IS1-W	INTERCOM STATION (WALL)	.
TJ1	PW-TJ1-W	PATHWAY TECHNOLOGY JUNCTION BOX (WALL) TYPE 1	.
C#	SC-IO-F	INFORMATION OUTLET IN FLOOR BOX/POKE THROUGH	3., 4.
C#	SC-IO-W	INFORMATION OUTLET (WALL)	3.
C#	SC-IO-C	INFORMATION OUTLET (CEILING)	3.
CM-#	VS-CM-1	VIDEO SURVEILLANCE CAMERA (CEILING)	5.
WIDTH X HEIGHT		CABLE TRAY, CHANNEL TRAY, BASKET TRAY	
WIDTH X HEIGHT		LADDER RACK	
DIAMETERø C		CONDUIT	
		CONDUIT DOWN	
		CONDUIT UP OR UP/DOWN	
		CONDUIT SLEEVE	
		CONTINUATION	

GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
4. REFER TO RISERS ON SHEET T5.0.

TECHNOLOGY SYMBOL NOTES:

1. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T6.0 FOR ADDITIONAL INFORMATION.
2. SUBSCRIPT INDICATES DEVICE TYPE. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
3. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T6.0 FOR ADDITIONAL INFORMATION.
4. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. REFER TO THE ELECTRICAL FLOOR PLANS AND ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
5. "CM-#" ON FLOOR PLANS INDICATES CAMERA TYPE AND IS ASSOCIATED WITH THE CORRESPONDING "VS-CM-#" TECHNOLOGY EQUIPMENT SCHEDULE ABBREVIATION.

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFC	BELOW FINISHED CEILING
C	CONDUIT
DE	DELAYED EGRESS
DPDT	DOUBLE POLE DOUBLE THROW
FOV	FIELD OF VIEW
J-BOX	JUNCTION BOX
POE	POWER OVER ETHERNET
PTZ	PAN TILT ZOOM
SIM	SIMILAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM

TECHNOLOGY GENERAL NOTES:

1. ##-###-# INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
2. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A — MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H — MOUNT ORIENTED HORIZONTALLY
- L — MOUNT IN CASEWORK
- M — MOUNT IN MODULAR FURNITURE
- S — MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC., UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
8. ALL LADDER RACK SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTION 27 11 00 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.

TECHNOLOGY SHEET INDEX

T0.0	TECHNOLOGY COVERSHEET
T0.2	SITE PLAN - TECHNOLOGY
T1.1	FLOOR PLANS - TECHNOLOGY
T3.0	TECHNOLOGY ENLARGED PLANS
T4.0	TECHNOLOGY DETAILS
T5.0	TECHNOLOGY DIAGRAMS
T5.1	TECHNOLOGY DIAGRAMS
T6.0	TECHNOLOGY SCHEDULES
T6.1	TECHNOLOGY SCHEDULES
GRAND TOTAL: 9	

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
MC-1	1/T3.0	2/T1.1	DATA CENTER 201

FEH DESIGN
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REF. SCALE IN INCHES — PROJECT #22006578.00

SHEET TITLE: TECHNOLOGY COVERSHEET

PROJECT TITLE: CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

REV. NO. — DATE

PROJECT NUMBER 2022213.02

SHEET T0.0

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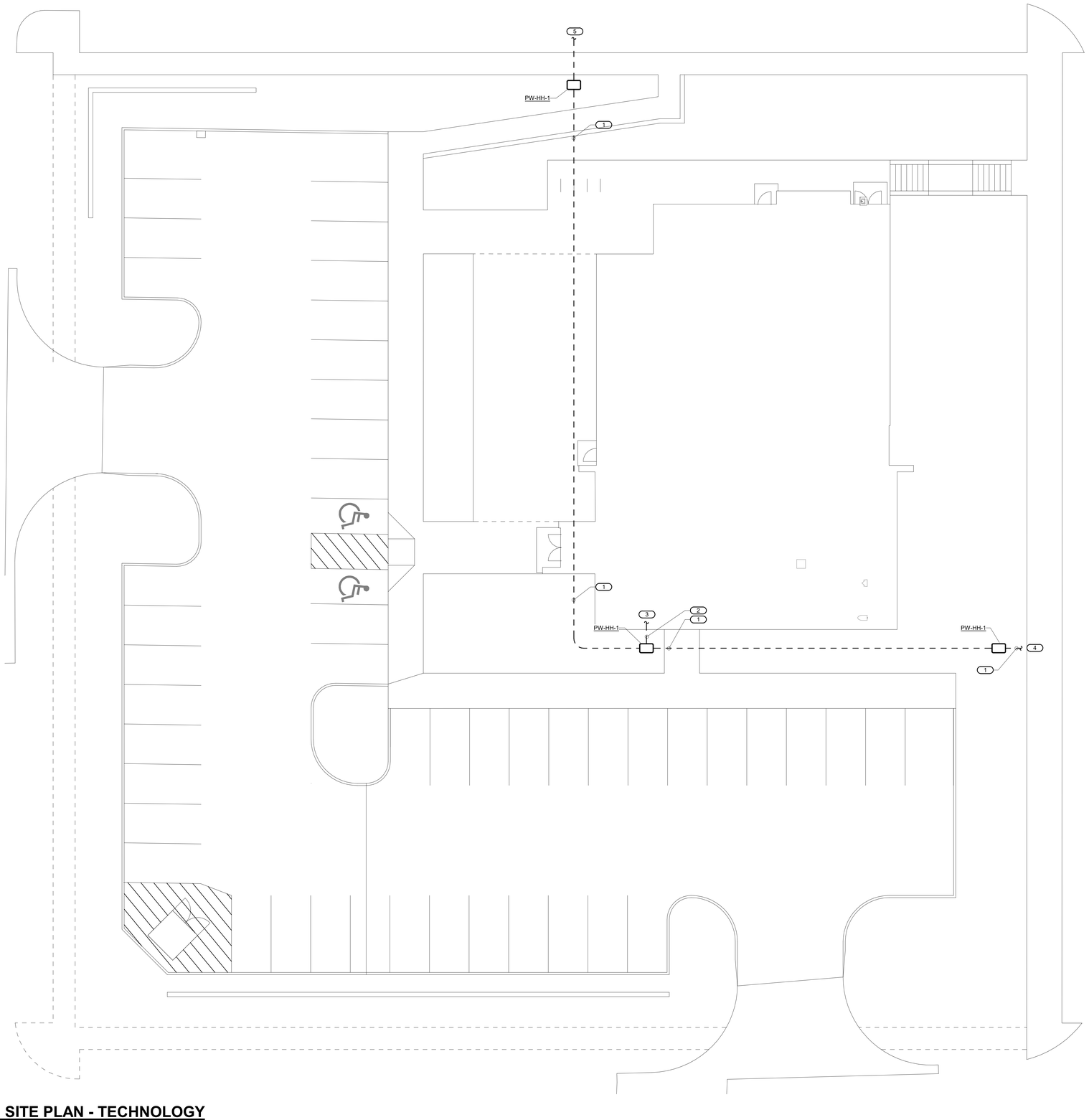

KEYNOTES: (#)

1. TWO (2) 4" CONDUITS.
2. THREE (3) 4" CONDUITS TRANSITIONING TO 90-DEGREE SWEEP ELBOW INSIDE BUILDING.
3. TWO (2) 4" CONDUITS TO MC-1. REFER TO T1.1 FOR CONTINUATION.
4. CONNECTION TO SERVICE PROVIDER.
5. CONNECTION TO EXISTING CITY HALL NETWORK.

NORTH

1 SITE PLAN - TECHNOLOGY

1" = 10'-0"

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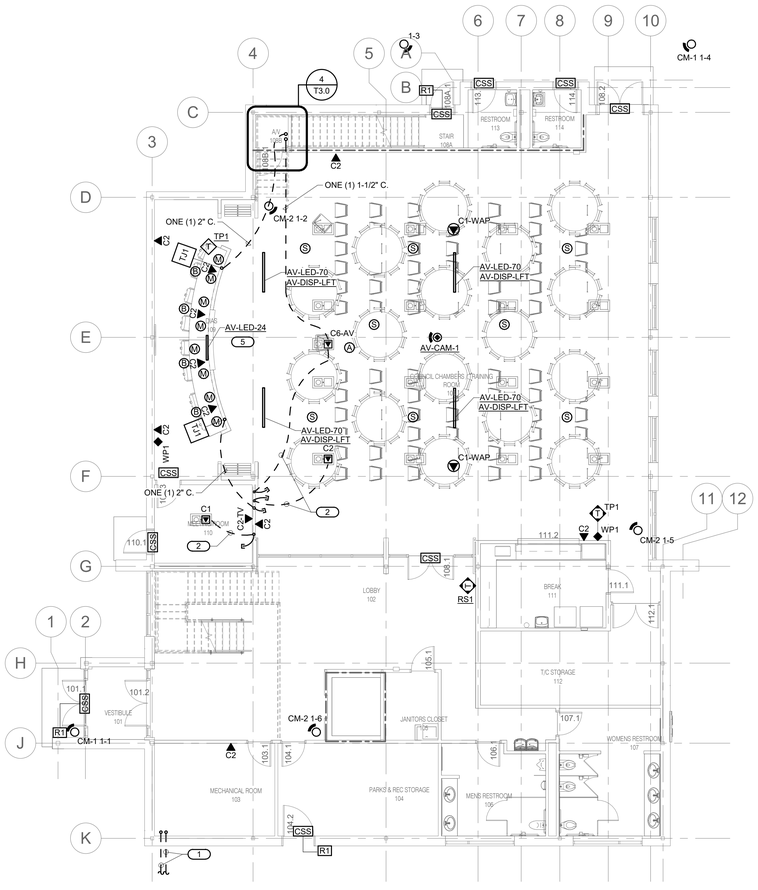
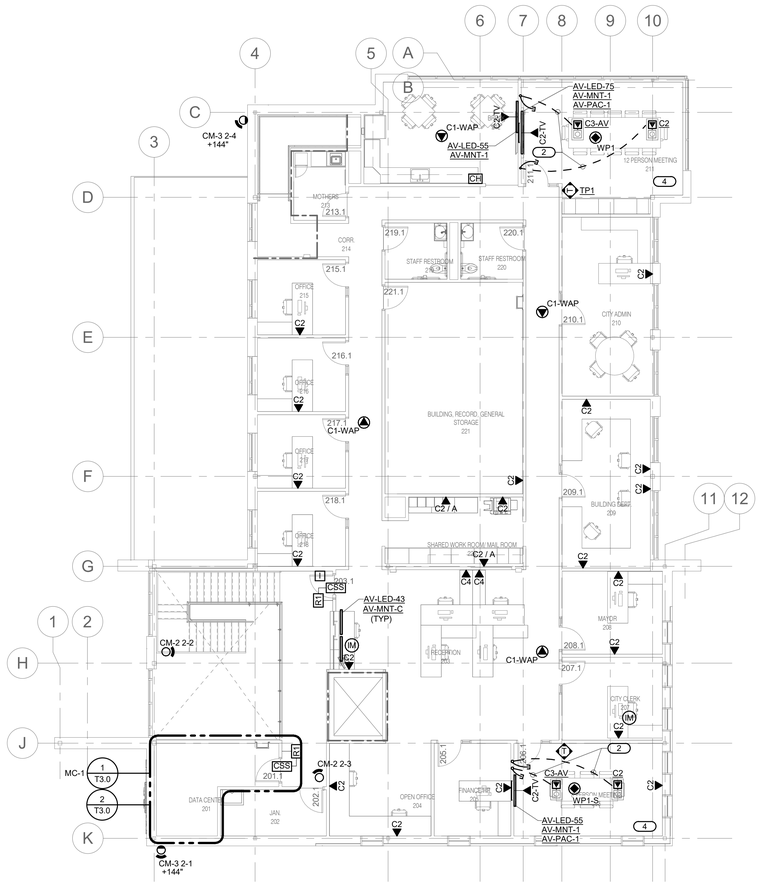


1 MAIN FLOOR PLAN - TECHNOLOGY

1/8" = 1'-0"



2 UPPER FLOOR PLAN - TECHNOLOGY

1/8" = 1'-0"

SHEET NOTES:

1. ALL TECHNOLOGY DEVICES ON THIS SHEET SHALL TERMINATE IN MC-1.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND COORDINATE WITH OTHER TRADES FOR ALIGNMENT OF CEILING MOUNT DEVICES.
3. REFER TO 1/T4.0 FOR TECHNOLOGY ROUGH-IN DETAIL.
4. REFER TO 3/T4.0 FOR ACCESS CONTGROL DOOR ROUGH-IN DETAIL.
5. REFER TO 3/T5.0 FOR ACCESS CONTROL RISER DIAGRAM.
6. REFER TO 4/T5.0 FOR FIBER AND COPPER RISER DIAGRAM.
7. REFER TO T6.0 FOR CONTROLLED SECURITY SCHEME (CSS) SCHEDULE.
8. REFER TO T6.0 FOR INFORMATION OUTLET SCHEDULE.
9. REFER TO T6.1 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

KEYNOTES: (#)

1. FOUR (4) 4" CONDUITS TO EXTERIOR HANDHOLE. REFER TO SHEET T0.2 FOR CONTINUATION.
2. ONE (1) 1-1/2" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE NYLON BUSHING.
3. REFER TO 1/T5.1 FOR COUNCIL CHAMBER AV FUNCTIONAL DIAGRAM.
4. REFER TO 2/T5.1 FOR MEETING ROOM AV FUNCTIONAL DIAGRAM.
5. PROVIDE EIGHT (8) AV-LED-24 MONITORS. POSITION ONE AT EACH CHAIR.

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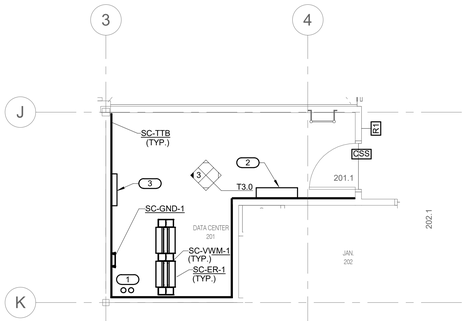


1 TECHNOLOGY ROOM ENLARGEMENT MC-1

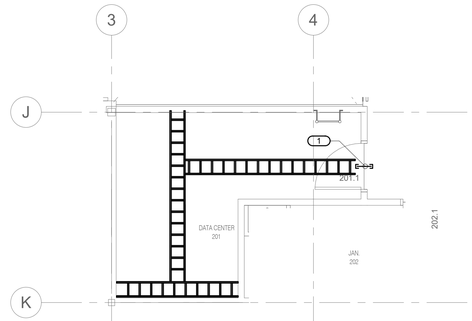
1/4" = 1'-0"

NOTES:

1. REFER TO 2/T3.0 FOR LADDER RACK LAYOUT MC-1.
2. INSTALL SC-GND-1 AT 7'-0" AFF.
3. REFER TO 2/T4.0 FOR BONDING BUS BAR DETAIL.
4. REFER TO 3/T5.0 FOR TECHNOLOGY BONDING RISER DIAGRAM.
5. REFER TO 4/T5.0 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

KEYNOTES:

1. TWO (2) 4" CONDUIT SLEEVES TO MECHANICAL ROOM 103 FOR BACKBONE CABLING.
2. SPACE FOR ACCESS CONTROL CABINET AND HARDWARE.
3. SPACE FOR TELEVISION DISTRIBUTION EQUIPMENT.



2 LADDER RACK LAYOUT MC-1

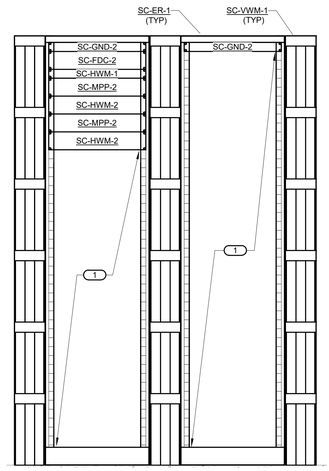
1/4" = 1'-0"

NOTES:

1. INSTALL LADDER RACK AT 7'-6" AFF.
2. LADDER RACK SHALL BE USED TO MAKE A TRANSITION FROM THE HEIGHT OF THE CONDUIT SLEEVE PENETRATIONS TO THE STANDARD HEIGHT OF SIX INCHES ABOVE THE RACK(S).
3. CABLE RUNWAYS SHALL BE INSTALLED AT ALL CABLE TRANSITIONS FROM ON LADDER RACK TO BELOW LADDER RACK.

KEYNOTES:

1. THREE (3) 4" CONDUIT SLEEVES.



3 EQUIPMENT RACK ELEVATION - MC-1

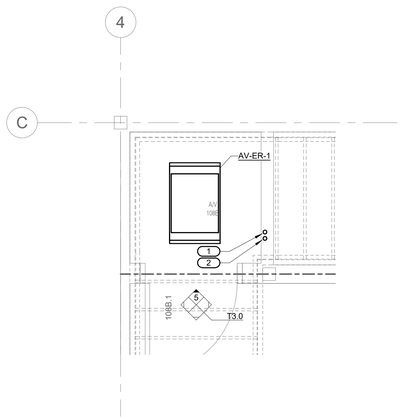
NO SCALE

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR POWER PROVISIONS.
2. BOND RACK GROUND BUS (SC-GND-1) TO ROOM TGB WITH SEPARATE INDIVIDUAL BONDING CONDUCTOR.
3. BOND ALL EQUIPMENT TO RACK GROUND BUS WITH SEPARATE INDIVIDUAL BONDING CONDUCTORS.

KEYNOTES:

1. SPACE FOR OWNER FURNISHED EQUIPMENT.



4 AV EQUIPMENT ROOM 108B

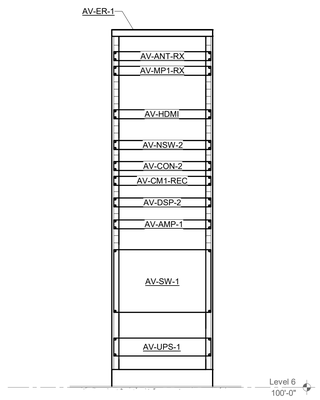
1/2" = 1'-0"

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR POWER PROVISIONS.

KEYNOTES:

1. ONE (1) 1-1/2" CONDUIT TO PODIUM FLOORBOX.
2. ONE (1) 2" CONDUIT TO DIAS JUNCTION BOX.



5 AV EQUIPMENT RACK ELEVATION 108B

NO SCALE

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TECHNOLOGY ENLARGED PLANS

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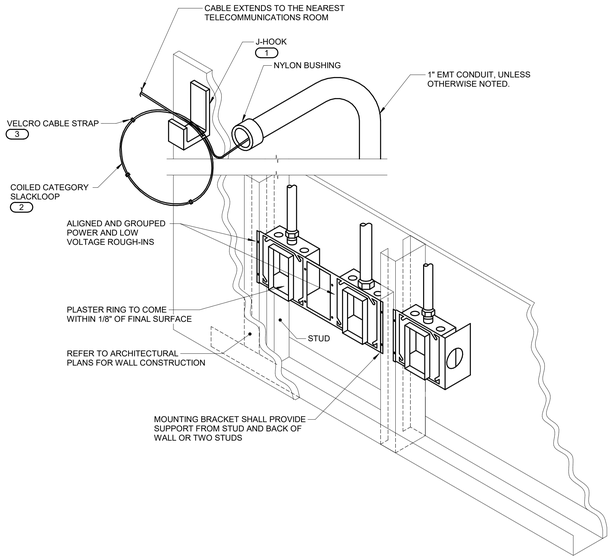


1 TECHNOLOGY ROUGH-IN DETAIL

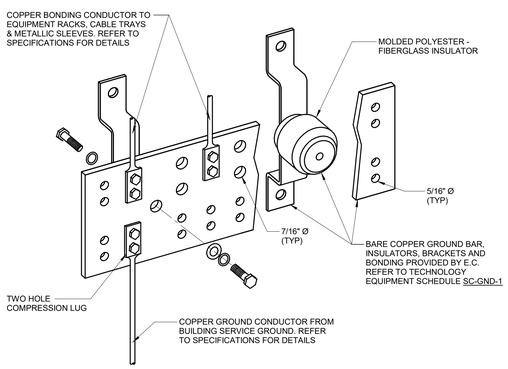
NO SCALE

NOTES:

1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL.
4. MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.
6. TERMINATE CONDUIT STUB ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
7. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
8. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
9. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

KEYNOTES: #

1. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
3. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE INSTALLED.

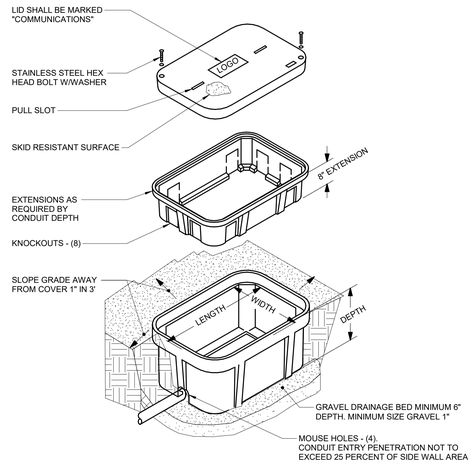


2 BONDING BUS BAR DETAIL

NO SCALE

NOTES:

1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
2. REFER TO 27 05 26 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

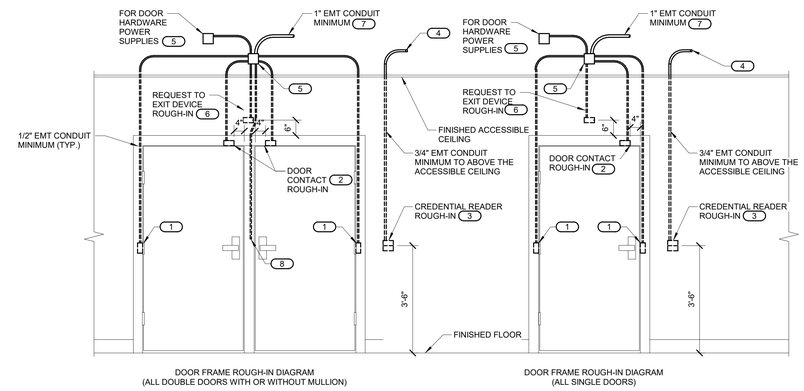


3 EXTERIOR HAND HOLE DETAIL

NO SCALE

NOTES:

1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.
2. ANY SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERGIBLE.



DOOR FRAME ROUGH-IN DIAGRAM (ALL DOUBLE DOORS WITH OR WITHOUT MULLION)

DOOR FRAME ROUGH-IN DIAGRAM (ALL SINGLE DOORS)

4 CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL

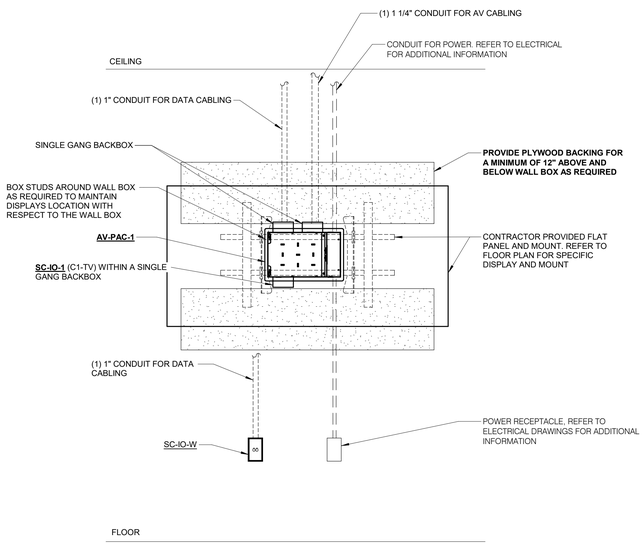
NO SCALE

NOTES:

1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENT'S THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION.
3. ALL CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR CABLING PROPERLY RATED FOR THE CEILING ENVIRONMENT.
4. THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. REFER TO THE CONTROLLED SECURITY SCHEME WIRING DIAGRAM ON **3/T5.0** FOR CABLING REQUIREMENTS AND THE CONTROLLED SECURITY SCHEME SCHEDULE ON **T6.0** FOR ADDITIONAL INFORMATION.
7. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

KEYNOTES:

1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
2. ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
3. 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS.
4. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX. PROVIDE A NYLON BUSHING ON CONDUIT END.
5. MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX.
6. PROVIDE A HORIZONTALLY MOUNTED SINGLE GANG BACKBOX FOR THE REQUEST TO EXIT SENSOR. REFER TO THE CONTROLLED SECURITY SCHEME SCHEDULE ON T6.0 FOR DOORS THAT REQUIRE THIS ROUGH-IN.
7. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX. PROVIDE A NYLON BUSHING ON CONDUIT END.
8. CONDUIT INSTALLED IN PERMANENT MULLIONS ONLY. REFER TO THE ARCHITECTURAL DOOR SCHEDULE AND DOOR HARDWARE GROUPS FOR LOCATIONS THAT REQUIRE THIS ROUGH-IN. PROVIDE A NYLON BUSHING ON THE CONDUIT END.



5 AV FLAT PANEL ROUGH-IN DETAIL

NO SCALE

NOTES:

1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE ROUGH-IN REQUIREMENTS OF A TYPICAL FLAT PANEL DISPLAY. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DISPLAY SIZE, MOUNTING HEIGHT, OR PHYSICAL RELATIONSHIP. REFER TO ARCHITECTURAL ELEVATIONS FOR COMPLETE INFORMATION AND MIRROR THE DETAIL AS REQUIRED.
2. ROUGH-IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR THE DISPLAY UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS OF THE SELECTED DEVICES AND CABLING PRIOR TO INSTALLATION.
3. ALL CABLING IN WALLS SHALL BE INSTALLED IN EMT CONDUIT. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR WITH CABLING PROPERLY RATED FOR THE CEILING ENVIRONMENT.
4. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

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IN ASSOCIATION WITH

SHEET TITLE
TECHNOLOGY DETAILS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
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POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

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PROJECT NUMBER
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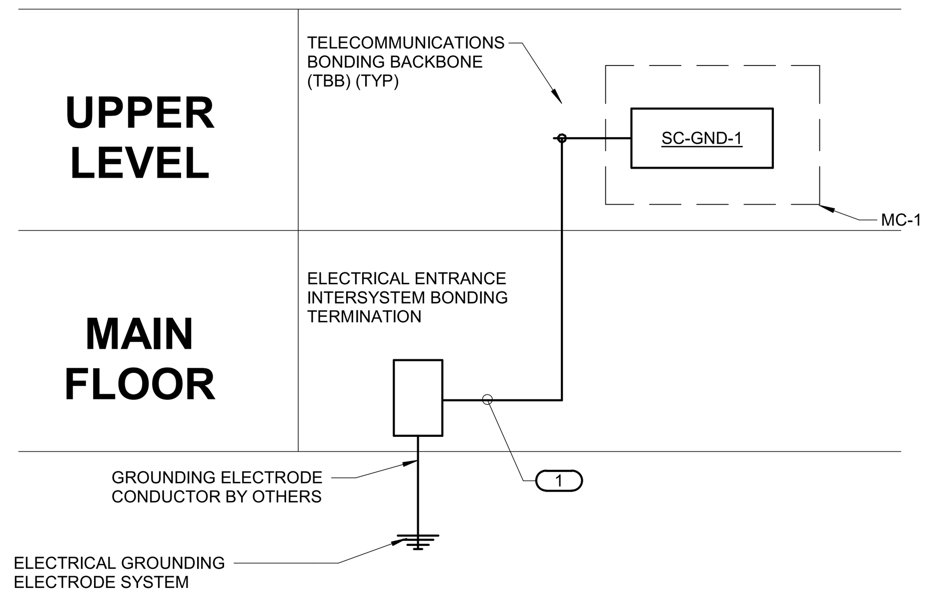


1 TECHNOLOGY BONDING RISER DIAGRAM

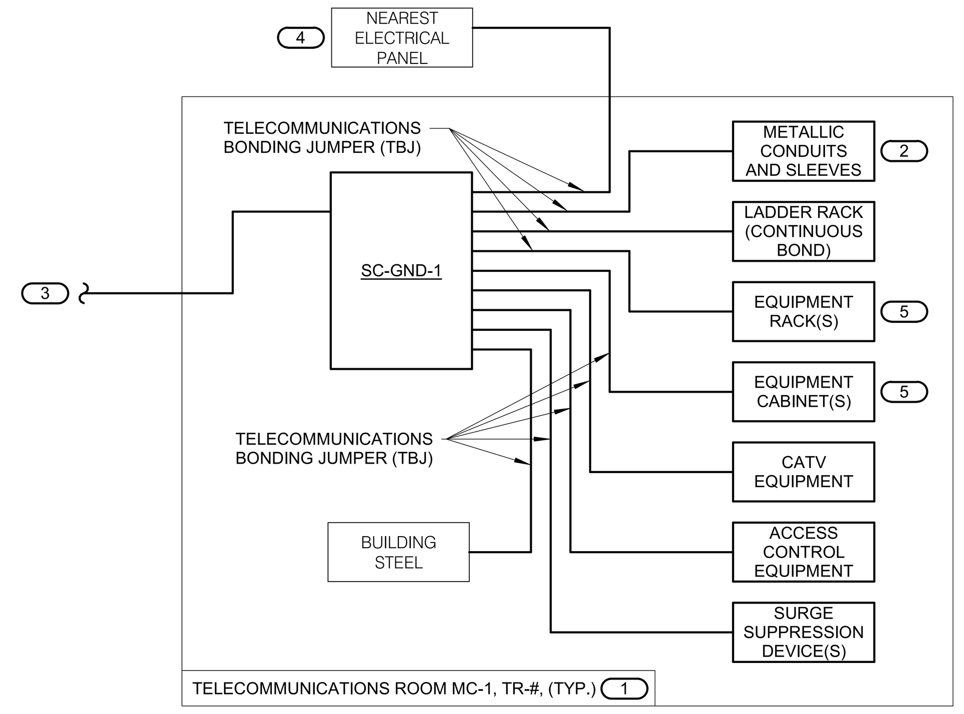
NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO 2/T5.0 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
5. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T0.0 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.

KEYNOTES:
1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT). BCT SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS. THIS CONNECTION OCCURS IN MC-1 ONLY.

BONDING CONDUCTOR SIZING SCHEDULE

CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0

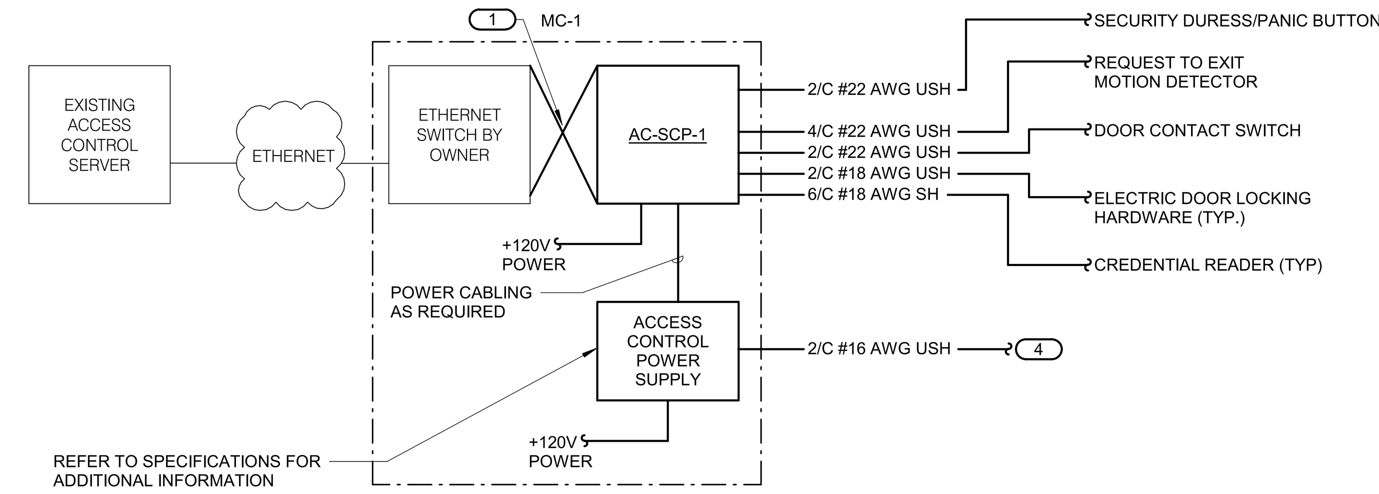


2 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

NO SCALE

NOTES:
1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO 4/T4.0 FOR BONDING BUS BAR DETAIL AND ADDITIONAL INFORMATION AND REQUIREMENTS FOR SC-GND-1.

KEYNOTES:
1. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T0.0 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.
2. INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
3. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT), TO ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO 1/T5.0 FOR TELECOMMUNICATIONS BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS. THIS CONNECTION OCCURS IN MC-1 ONLY.
4. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION.
5. PROVIDE SC-GND-2 RACK MOUNT TELECOMMUNICATIONS BONDING BUSBAR AT EACH EQUIPMENT RACK AND CABINET.



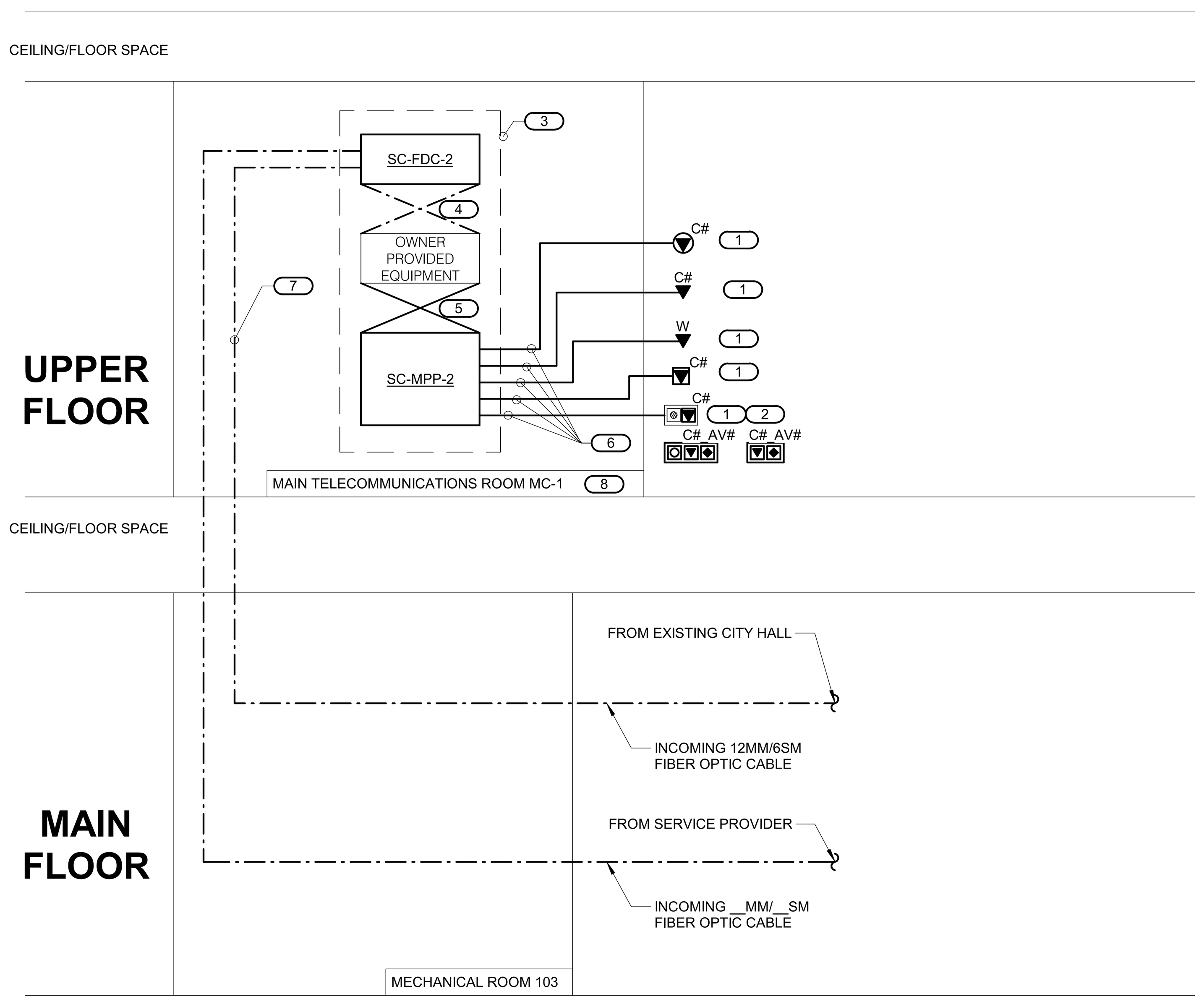
3 ACCESS CONTROL RISER DIAGRAM

NO SCALE

NOTES:
1. THIS DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL DEVICE QUANTITIES OR LOCATIONS. ALL DEVICES SHOWN ARE TYPICAL AND MAY NOT REFLECT EVERY WIRE OR CONNECTION THAT MUST BE MADE. WIRING SHOWN ON THIS DIAGRAM REFLECTS THE REQUIREMENTS FOR THE BASIS OF DESIGN MANUFACTURER. ANY CHANGES REQUIRED DUE TO THE T.C.'S SELECTION OF AN ALTERNATE MANUFACTURER, INCLUDING ANY POWER REQUIRED FOR FIELD LOCATED SECURITY CONTROLLERS, SHALL BE INCLUDED IN THE T.C.'S BID.
2. ALL CONDUCTOR SIZES ARE LISTED A MINIMUM SIZES.
3. ALL WORKSTATIONS AND SERVERS REQUIRE A KEYBOARD AND MOUSE.
4. MULTICONDUCTOR COMPOSITE CABLES ARE ACCEPTABLE.

KEYNOTES:

1. CATEGORY 6 RJ-45 TO RJ-45 PATCH CABLE.
2. REFER TO FLOOR PLANS FOR LOCATIONS AND LAYOUT OF INFORMATION OUTLETS TO BE PROVIDED BY T.C.
3. CATEGORY 6 CABLING FROM INFORMATION OUTLET TO MODULAR PATCH PANEL IN AREA SERVING TELECOM ROOM.
4. CONNECT TO FIRE ALARM PANEL, REFER TO ELECTRICAL DRAWINGS FOR PANEL LOCATION.



4 FIBER AND COPPER RISER DIAGRAM

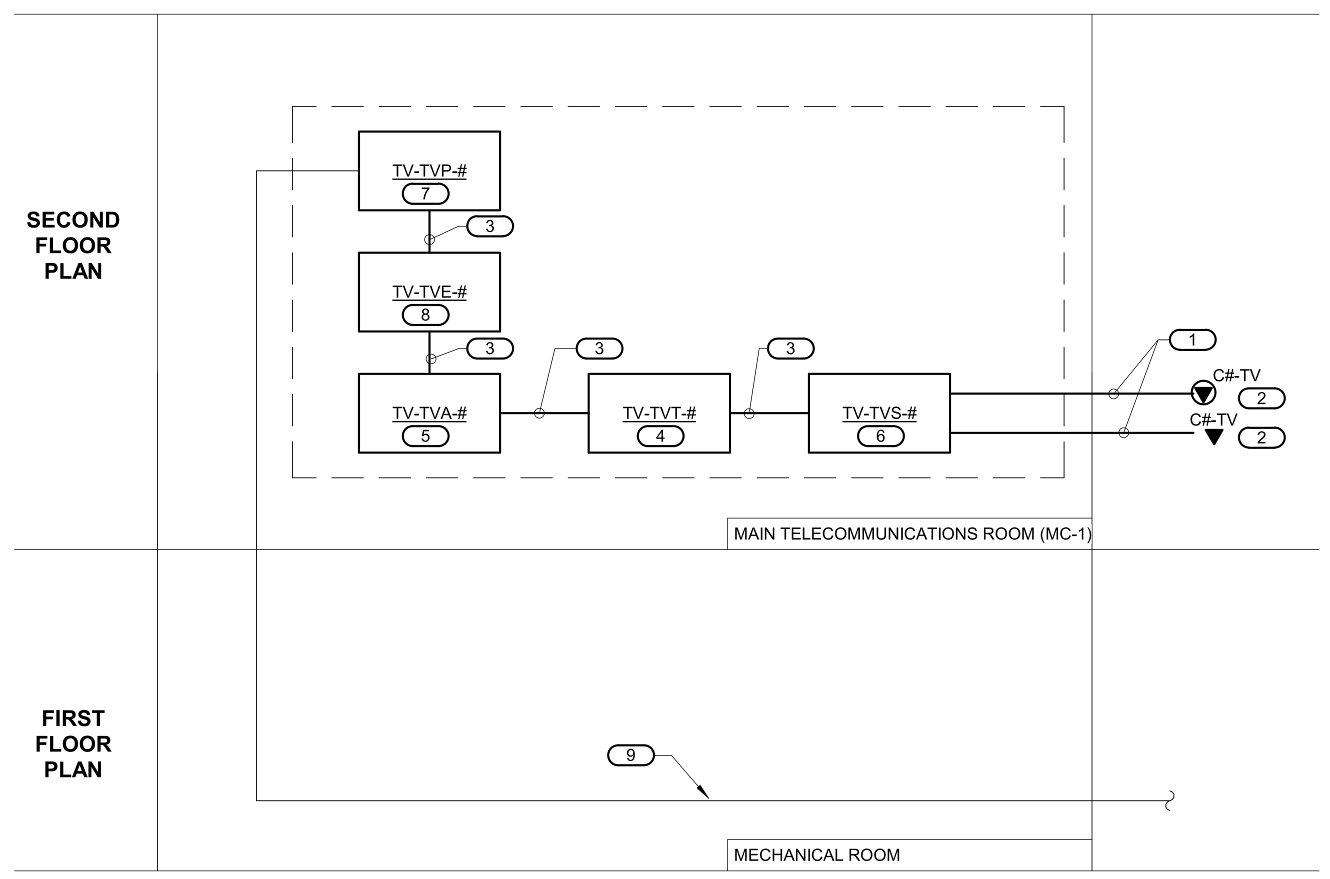
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.

KEYNOTES: #

1. C# INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON T6.0 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. REFER TO SPECIFICATIONS FOR FIBER PATCH CORD REQUIREMENTS.
5. RJ-45 TO RJ45 CATEGORY **6** UTP PATCH CORDS, REFER TO SPECIFIATIONS.
6. 4-PAIR, CATEGORY **6**, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. 12MM/6SM FIBER OPTIC CABLE.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.



5 COAXIAL CATV RISER DIAGRAM

NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO DRAWINGS FOR ACTUAL QUANTITIES OF INFORMATION OUTLETS AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR TO PROVIDE CATV SYSTEM TO ALLOW 6dB +/- 3dB OF OUTPUT ON ALL CHANNELS AT ALL TELEVISION INFORMATION OUTLETS AND SEPARATE RETURN PATH BACK TO EXISTING CATV HEAD END. ACTUAL EQUALIZER VALUES/QUANTITY, AMP SIZING/QUANTITY, TAP/SPLITTER VALUES/QUANTITY, AND LAYOUT TO BE INCLUDED IN CONTRACTOR'S FINAL DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL CROSS-CONNECTIONS BY THIS CONTRACTOR.
4. RG-11 JUMPERS IN TELECOMMUNICATIONS CLOSETS SHALL BE NO LONGER THAN 10 FEET. RUNS BEYOND 10 FEET SHALL UTILIZE .500 1/2" HARDLINE.
5. REFER TO T6.1 FOR TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE INFORMATION.

KEYNOTES:
1. HORIZONTAL CABLE RUNS FROM TELECOMMUNICATIONS ROOMS TO OUTLET LOCATIONS UNDER 180 FEET IN LENGTH SHALL UTILIZE 18 GAUGE RG-6; RUNS BETWEEN 180 AND 295 FEET SHALL UTILIZE 14 GAUGE RG-11. REFER TO SPECIFICATIONS FOR CABLE REQUIREMENTS.
2. REFER TO DRAWINGS FOR QUANTITY OF LOCATIONS AND QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET LOCATION.
3. RG-11 COAXIAL CABLE, REFER TO SPECIFICATIONS FOR REQUIREMENTS.
4. COAXIAL BROADBAND DIRECTIONAL COUPLER/TAP. PROVIDE WITH PORTS, VALUES AND QUANTITY AS REQUIRED BY CONTRACTOR DESIGN.
5. COAXIAL BROADBAND AMPLIFIER, PROVIDE WITH VALUE AND QUANTITY AS REQUIRED BY CONTRACTOR DESIGN.
6. COAXIAL BROADBAND SPLITTER. PROVIDE WITH PORTS, VALUES AND QUANTITY AS REQUIRED BY CONTRACTOR DESIGN.
7. COAXIAL BROADBAND SURGE SUPPRESSOR. BOND TO NEAREST SC-GND-1.
8. COAXIAL BROADBAND EQUALIZER. PROVIDE WITH VALUE TO COMPENSATE FOR FIELD MEASURED CABLE TILT.
9. INCOMING SERVICE CABLE BY SERVICE PROVIDER. COORDINATE EXACT LOCATION WITH SERVICE PROVIDER.

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IN ASSOCIATION WITH

SHEET TITLE
TECHNOLOGY DIAGRAMS

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
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POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023

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PROJECT NUMBER
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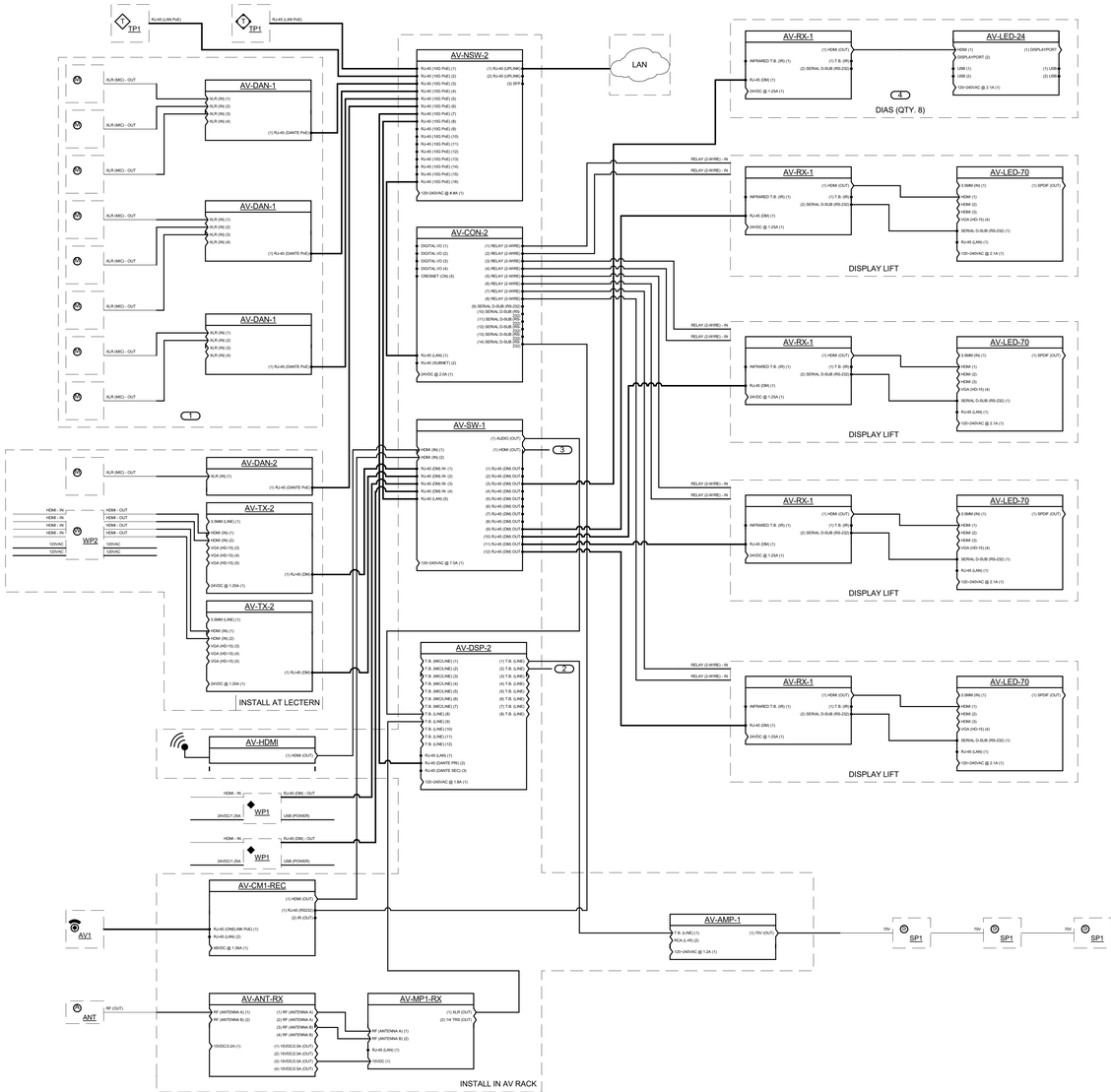


1 COUNCIL CHAMBERS AV FUNCTIONAL DIAGRAM

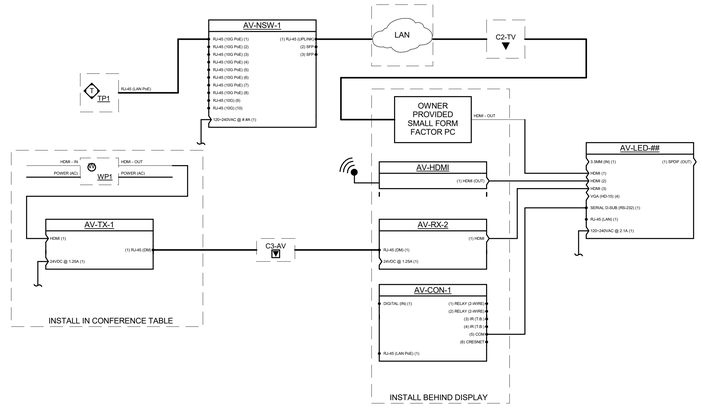
NO SCALE

NOTES:

1. REFER TO THE ROOM DESCRIPTION AND FUNCTIONALITY IN SPECIFICATION SECTION OF SPECIFICATION SECTION 27 41 00 FOR COMPLETE DETAILS.
2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THE RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. REFER TO SPECIFI CATION SECTION 27 41 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. AV CONTRACTOR TO VERIFY POWER REQUIREMENTS, CONNECTIONS AND LOCATIONS FOR AV DEVICES WITH ELECTRICAL CONTRACTOR.

KEYNOTES:

1. INSTALL WITHIN CITY COUNCIL DAIS TABLE.
2. OUTPUT RESERVED FOR FUTURE OWNER PROVIDED ASSISTED LISTENING DEVICE.
3. OUTPUT RESERVED FOR FUTURE OWNER PROVIDED VIDEO RECORDING DEVICE.
4. INSTALL AT DIAS. PROVIDE EIGHT (8) AV-RX-1/AV-LED-24 SETS. POSITION ONE AT EACH CHAIR.



2 MEETING ROOM AV FUNCTIONAL DIAGRAM

NO SCALE

NOTES:

1. REFER TO THE ROOM DESCRIPTION AND FUNCTIONALITY IN SPECIFICATION SECTION OF SPECIFICATION SECTION 27 41 00 FOR COMPLETE DETAILS.
2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THE RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. REFER TO SPECIFICATION SECTION 27 41 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. AV CONTRACTOR TO VERIFY POWER REQUIREMENTS, CONNECTIONS AND LOCATIONS FOR AV DEVICES WITH ELECTRICAL CONTRACTOR.

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SHEET TITLE
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POLK CITY NEW CITY HALL
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POLK CITY, IOWA 50226

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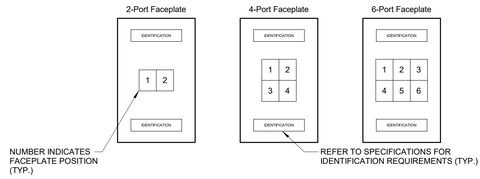
CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

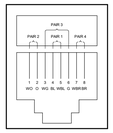
1. ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS.
2. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR CREDENTIAL READER TYPE INFORMATION.

		CREDENTIAL READER			INTEGRATION									REQUEST TO EXIT			DOOR HARDWARE / MONITORING									OTHER (REFER TO NOTES)			
DOOR #	ROUGH-IN ONLY	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	AUTOMATIC DOOR OPERATOR	ELEVATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	REMOTE UNLOCK VIA INTERCOM MASTER	REMOTE UNLOCK VIA PUSHBUTTON	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	WANDER PREVENTION SYSTEM	MOTION DETECTOR	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	INTERNAL ELECTRIFIED HARDWARE CONNECTION (BY OTHERS)	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MAG LOCK	LATCH STATUS DETECTION (BY OTHERS)	LOCAL ALARM HORN	MONITOR LATCH BOLT (BY OTHERS)	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR DOOR POSITION SWITCH - OVERHEAD DOOR	MONITOR DOOR POSITION SWITCH - ROOF HATCH	DELAYED EGRESS (BY OTHERS)	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	VISUAL STROBE/AUDIBLE ALARM	NOTES
101.1		R1																					•					•		
104.2		R1															•						•					•		
108.1																	•						•					•		
108.2																							•					•		
108.3																							•					•		
108A.1		R1															•						•					•		
110.1																							•					•		
113.1																	•	•					•					•		
114.1																							•					•		
201.1		R1															•						•					•		
203.1		R1															•						•					•		

INFORMATION OUTLET SCHEDULE

SINGLE GANG WALLPLATES





ANSI/TIA/EIA T568B PIN/PAIR ASSIGNMENT

LEGEND

DATA	CAT 6 RJ-45
HDMI	HDMI CONNECTOR
BLANK	BLANK FILLER MODULE
TV	F-CONNECTOR
DATA (AV)	CAT 6A RJ45

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION: POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	NOTES
C1	1	DATA						
C1-WAP	1	DATA						1.
C2	2	DATA	DATA					
C2-TV	2	DATA	TV					
C3-AV	4	DATA	DATA	DATA (AV)	BLANK			2.
C4	4	DATA	DATA	DATA	DATA			
C6	6	DATA	DATA	DATA (AV)	DATA (AV)	DATA (AV)	DATA (AV)	2.

NOTES:
1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICATION SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES:
1. LOCATION OF FUTURE OR OWNER PROVIDED ACCESS POINT. PROVIDE A 20' SLACK COIL AT NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY. PROVIDE TEMPORARY TAG IDENTIFYING LOCATION OF SLACK COIL ON FINISHED CEILING TO FACILITATE EASE OF CONNECTION.
2. DATA (AV) CABLING IS POINT-TO-POINT. DATA CABLE SHALL ROUTE FROM JACK TO AV EQUIPMENT. REFER TO AV FUNCTIONAL DIAGRAMS.

INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE

CAMERA #	CAMERA TYPE	CAMERA ENVIRONMENT	TELECOM ROOM #	LOCATION	FIELD OF VIEW DESCRIPTION	MOUNTING TYPE	ADDITIONAL INFORMATION	NOTES
1-1	CM-1	EXTERIOR	MC-1	EXTERIOR	MAIN ENTRANCE	CEILING (UNDER VESTIBULE OVERHANG)		
1-2	CM-2	INTERIOR	MC-1	DIAS 109	VIEW SOUTH FROM DIAS	CEILING		
1-3	CM-1	EXTERIOR	MC-1	EXTERIOR	VIEW OF EXTERIOR DOOR 108A.1 AND 113	CEILING (UNDER OVERHANG)		
1-4	CM-1	EXTERIOR	MC-1	EXTERIOR	VIEW OF EXTERIOR DOOR 108.2 AND 114	CEILING (UNDER OVERHANG)		
1-5	CM-2	INTERIOR	MC-1	COUNCIL CHAMBER 108	VIEW NORTH OF COUNCIL CHAMBER AUDIENCE	CEILING		
1-6	CM-2	INTERIOR	MC-1	LOBBY 102	VIEW NORTH OF ENTRANCE AND LOBBY	CEILING		
2-1	CM-3	EXTERIOR	MC-1	EXTERIOR	PARKING LOT	WALL		
2-2	CM-2	INTERIOR	MC-1	UPPER FLOOR STAIR LANDING	VIEW WEST OF DOOR 201.1	CEILING		
2-3	CM-2	INTERIOR	MC-1	UPPER FLOOR STAIR LANDING	VIEW OF STAIR LANDING AND AROUND DOOR 203.1	CEILING		
2-4	CM-3	EXTERIOR	MC-1	EXTERIOR	PARKING LOT	WALL		

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IN ASSOCIATION WITH

SHEET TITLE
TECHNOLOGY SCHEDULES

PROJECT TITLE
CITY OF POLK CITY, IOWA
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200 S 4TH STREET
POLK CITY, IOWA 50226

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TECHNOLOGY EQUIPMENT SCHEDULE

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EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
AC-DB1-S	DURESS BUTTON, SPDT, 12VDC SWITCH WITH LATCHING LED LIGHT INDICATING SWITCH ACTIVATION, LED TO PROVIDE GREEN LIGHT GLOW FOR VISIBILITY OF SWITCH, SMALL FORM FACTOR WHITE ABS PLASTIC HOUSING (2"W X 3"H X 1"D) CONTAINING ELECTRONICS AND MAGNETIC CONTACT. SWITCH SHALL ALARM AT APPROXIMATELY 1" MOVEMENT OF ARM (APPROXIMATELY 20 DEGREES) FROM RESTING POSITION, SWITCH SHALL BE RESET ONLY FROM THE SECURITY MANAGEMENT WORKSTATION. EACH DURESS BUTTON SHALL BE WIRED TO THE NEAREST ACCESS CONTROL SYSTEM CONTROLLER AS A SYSTEM INPUT. EACH DURESS SWITCH SHALL INITIATE A BREAKOUT ALARM ON THE SECURITY MANAGEMENT WORKSTATION INDICATING UNIQUE SWITCH LOCATION.	UNITED SECURITY PRODUCTS HUB 3B W/ BOX HONEYWELL PRE-APPROVED EQUAL
AC-R1-W	CARD READER. PROVIDED AS INTEGRAL PART OF SECURITY MANAGEMENT SYSTEM. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON -- [XXX]-- FOR ADDITIONAL INFORMATION. CARD READERS SHOWN ON PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	HID SIGNO40 SERIES
AV-AMP-1	POWER AUDIO AMPLIFIER, 50W @ 70V. INPUTS: (2) BALANCED/UNBALANCED. OUTPUTS: (1) 70V. FREQUENCY RESPONSE: 200 Hz - 20 kHz, ±0.5dB. MOUNTING: 1/4 WIDTH (1) RU 19 IN. RACK MOUNTABLE.	CRESTRON AMP-150-70 LAB GRUPPEN EXTRON
AV-ANT-C	AV WIRELESS MICROPHONE ANTENNA, CEILING MOUNT. WIDEBAND RF COVERAGE. PROVIDE WITH CEILING MOUNT BRACKET.	SHURE UA844SWB SENNHEISER SACOM
AV-ANT-RX	WIDEBAND DISTRIBUTION UNIT, 2 ANTENNA INPUT AND A MINIMUM OF 4 DISTRIBUTION CHANNEL A AND CHANNEL B OUTPUTS.	SHURE UA864US SENNHEISER SACOM
AV-CAM-1	AV PTZ CAMERA, WALL MOUNTED. 40X OPTICAL ZOOM, 8.93 MEGAPIXEL. SIMULTANEOUS 3G SDI, HDMI, HDBASET AND IP STREAMING OUTPUTS. RS232, WEB, TELNET, IR REMOTE CONTROL. PROVIDE WITH WALL MOUNT. COORDINATE COLOR WITH ARCHITECT PRIOR TO INSTALLATION.	VADDIO ROBOSHOT 40 UHD
AV-CM1-REC	HDMI RECEIVER/EXTENDER FOR VADDIO HDBaseT CAMERAS. EXTENDS POWER, VIDEO, AND CONTROL UP TO 328 FT.	VADDIO 99-1105-043
AV-CON-1	MEDIA CONTROL PROCESSOR. CONNECTIONS: (1) COM, (1) IR, (1) RELAY, (1) DIGITAL INPUT, (1) CRESNET, (1) LAN. DIMENSIONS (HXWXD): 1.35" x 5.04" x 2.86".	CRESTRON RMC3 EXTRON
AV-CON-2	MEDIA CONTROL PROCESSOR. CONNECTIONS: (3) COM, (8) IR/SERIAL, (8) I/O, (8) RELAY, (1) CRESNET, (1) LAN, (1) SUBNET. DIMENSIONS (HXWXD): 1.70" x 17.28" x 6.56". MOUNTING: (1) RU.	CRESTRON CP4N EXTRON
AV-DAN-1	DANTE AUDIO NETWORK INTERFACE. CONVERTS 4 LINE/MIC SIGNALS ONTO A DANTE NETWORK. (4) XLR OUTPUTS AND (1) DANTE INPUT. PoE POWERED.	SHURE ANI4IN-XLR
AV-DAN-2	1 CHANNEL DANTE ADAPTER. (1) XLR OUTPUT AND (1) RJ45 DANTE INPUT. CONVERTS LINE LEVEL SOURCE TO A DANTE CONNECTED SYSTEM.	AUDINATE AVIO-A01
AV-DISP-LFT	RECESSED MOTORIZED FLAT PANEL DISPLAY LIFT EXTENSION: 41 IN., LIFTING CAPACITY: 200 LBS, DIMENSIONS: 48 H" X 70"W X 12" D, WEIGHT: [X] LBS	AUTON AR-41-20
AV-DSP-1	DIGITAL SIGNAL PROCESSOR. CONNECTIONS: (8) MIC/LINE INPUTS WITH 66 dB GAIN RANGE, (6) LINE OUTPUTS +24 dB BALANCED. FREQUENCY RESPONSE: 20 Hz to 20 kHz ±0.5 dB. 1RU 19" RACK MOUNTABLE.	CRESTRON DSP-860 BIAMP QSC EXTRON
AV-DSP-2	DIGITAL SIGNAL PROCESSOR. 32x32 DANTE AUDIO NETWORK INTERFACE. CONNECTIONS: (12) MIC/LINE INPUTS WITH 66 dB GAIN RANGE. (8) LINE OUTPUTS +24 dB BALANCED, (1) DANTE PRI, (1) DANTE SEC, (1) LAN. FREQUENCY RESPONSE: 20 Hz to 20 kHz ±0.5 dB. 1RU 19" RACK MOUNTABLE.	CRESTRON DSP-1281 BIAMP QSC EXTRON
AV-ER-1	A/V CABINET FRAME RACK, 19" EIA RACK SPACING, (37) RU, DIMENSIONS: 24.5"Hx22"Wx26"D WITH 3 YEARS WARRANTY. PROVIDE WITH CASTER BASE AND (1) MIDDLE ATLANTIC (CAB-COOL-2) FAN. PROVIDE BLANK PLATES FOR UNUSED RACK SPACES.	MIDDLE ATLANTIC MRK-3726RLD HOFFMAN WINSTED
AV-HDMI	WIRELESS HDMI EXTENDER. HDCP COMPLIANT, EXTENDS SIGNAL UP TO 100 FT. SUPPORTS RESOLUTIONS UP TO 1920X1080. LATENCY <1 MS. LABEL TRANSMITTERS WITH ROOM NUMBER AND VELCRO TO SIDE OF DISPLAY.	EXTRON ELINK 100 TX 60-1490-02 RX 60-1490-03
AV-LED-24	24"COMPUTER MONITOR, 1920X1200 RESOLUTION. INPUTS: (1) HDMI, (1) DISPLAYPORT, (4)USB. OUTPUTS: (1) DISPLAYPORT, POWER REQUIREMENT: 110-120 VAC, 60Hz. INSTALL AT DIAS WITH INCLUDED DESKTOP STAND.	HP Z24n G3 NEC SAMSUNG
AV-LED-43	43" LED HDTV, 3840x2160 RESOLUTION, MOTION RATE: 120, INPUTS: (2) HDMI, (1) USB. OUTPUTS: (1) ANALOG AUDIO, RS-232 CONTROL, POWER REQUIREMENT: 110-120 VAC, 60 Hz, DIMENSION: 38.1"X22.1"X2.6". WEIGHT: 38.6 lbs. MOUNT DISPLAY CENTERED VERTICALLY WITH THE BACKBOX.	SHARP/NEC M431 SAMSUNG LG
AV-LED-55	55" LED HDTV, 3840x2160 RESOLUTION, MOTION RATE: 120, UHD UPSCALING, BUILT-IN Wi-Fi, INPUTS: (2) HDMI, (1) COMPONENT, (1)USB, (1) RF IN. OUTPUTS: (1) DIGITAL AUDIO, (1) ANALOG AUDIO, RS-232 CONTROL, POWER REQUIREMENT: 110-120 VAC, 60Hz. MOUNT DISPLAY CENTERED VERTICALLY WITH THE BACKBOX.	LG 55UX340C NEC SAMSUNG
AV-LED-70	70" LED HDTV, 3840x2160 RESOLUTION, MOTION RATE: 120, UHD UPSCALING, BUILT-IN Wi-Fi, INPUTS: (2) HDMI, (1) COMPONENT, (1) USB, (1) RF IN. OUTPUTS: (1) DIGITAL AUDIO, (1) ANALOG AUDIO, RS-232 CONTROL, POWER REQUIREMENT: 110-120 VAC, 60 Hz, DIMENSION: 57.5"X33.3"X2.3". WEIGHT: 59.52 lbs. MOUNT DISPLAY CENTERED VERTICALLY WITH THE BACKBOX.	SHARP/NEC 4T-B70CJ1U SAMSUNG LG
AV-LED-75	75" LED HDTV, 3840x2160 RESOLUTION, MOTION RATE: 120, UHD UPSCALING, BUILT-IN Wi-Fi, INPUTS: (2) HDMI, (1) COMPONENT, (1) USB, (1) RF IN. OUTPUTS: (1) DIGITAL AUDIO, (1) ANALOG AUDIO, RS-232 CONTROL, POWER REQUIREMENT: 110-120 VAC, 60 Hz, DIMENSION: 57.5"X33.3"X2.3". WEIGHT: 59.52 lbs. MOUNT DISPLAY CENTERED VERTICALLY WITH THE BACKBOX.	SHARP/NEC C750Q SAMSUNG LG
AV-MNT-1	WALL MOUNT, DUAL SWING ARM, 25" EXTENSION, TILTS: 0° TO 15°, TYPICALLY FITS SCREEN SIZES 37" TO 82", ADJUSTABLE LATERAL SHIFT, MAXIMUM WEIGHT: 125 LBS.	CHIEF TS525TU PREMIER PEERLESS
AV-MP1-C	SURFACE MOUNT BOUNDARY MICROPHONE, 10", CARDIOID PICK-UP, RUGGED HOUSING, FREQUENCY RESPONSE: 40HZ - 20KHZ, LED: RED/GREEN.	SHURE MX410LP/C SENNHEISER AUDIX
AV-MP1-RX	WIRELESS MICROPHONE RECEIVER, 1400 TUNABLE UHF FREQUENCIES, 516MHz TO 865MHz RF FREQUENCY RANGE, 32 PRESETS, >115dB(A) SNR, <0.9% THD, INPUT ON XLR CONNECTOR, AUDIO OUTPUT +18 dBU. (2) 5 OHM BNC ANTENNA CONNECTORS. PROVIDE WITH RACK MOUNT AND POWER SUPPLY. PROVIDE WITH WIRELESS MICROPHONE TRANSMITTER (ULXD2/SM58), RECHARGEABLE BATTERY PACK (SB900A), AND BATTER CHARGER (SBC10-100-US).	SHURE ULXD4 SENNHEISER SACOM
AV-NSW-1	NETWORK SWITCH, (10) 10/100/1000 Mbps RJ45 PORTS, FULL-DUPLEX, (8) PoE PORTS, 16 GBPS THROUGHPUT. POWER REQUIREMENT: 9VDC, PROVIDE WITH POWER SUPPLY. DIMENSION: 7.4" x 4.15" x 1.25". THREE YEAR LIMITED WARRANTY. MOUNTING: (1) RU.	LUXUL AMS-1208P NETGEAR
AV-NSW-2	NETWORK SWITCH (18) 10/100/1000 Mbps RJ45 PORTS, FULL DUPLEX, (16) PoE PORTS, 16 GBPS THROUGHPUT. DIMENSION: 17.3" x 8.25" x 1.7". THREE YEAR LIMITED WARRANTY. MOUNTING: (1) RU.	LUXUL AMS-1816P NETGEAR
AV-PAC-1	FLAT PANEL DISPLAY BACK BOX. SINGLE GANG KNOCKOUTS, KNOCKOUTS FOR 1/2", 1" AND 1-1/4" CONDUIT. INTEGRATED SURGEX POWER SUPPLY. COMPATIBLE WITH 3.5" STUDS OR 2.5" STUDS. EXISTING AND NEW CONSTRUCTION MOUNTING OPTIONS. INTEGRATED ZIP TIE ANCHOR POINTS. UL 2416 RATING. TYPE 3 SURGE PROTECTIVE DEVICE, VOLTAGE PROTECTION RATING: 600V L-N, N-G, 800V L-G. MAXIMUM CONTUNUOUS OPERATING VOLTAGE: 240V DIMENSIONS: 15.51" X 15.51" X 3.88". REFER TO FLAT PANEL ROUGH-IN DETAIL FOR MORE INFORMATION. REFER TO FLOORPLANS FOR MOUNTING ELEVATIONS. COORDINATE POWER WITH E.C. PRIOR TO INSTALLATION.	BACK BOX: CHIEF PAC526FBP4
AV-RS1-W	ROOM SCHEDULING TOUCH PANEL. 10" DISPLAY. INTEGRATES WITH MICROSOFT EXCHANGE, OFFICE 365, IBM/LOTUS NOTES AND GOOGLE CALENDAR. AVAILABLE ROOM LOCATOR. AVAILABILITY INDICATORS ON FRONT AND SIDES OF PANEL. PROVIDE WITH ROUGH-IN BOX, WALL MOUNT KIT AND POE INJECTOR. INSTALL ROUGH IN BOX WITH TWO (1) 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE TURNED 90° AND CAPPED WITH NYLON BUSHING. REQUIRES 120VAC FOR POE INJECTOR. COORDINATE WITH E.C. PRIOR TO INSTALLATION.	CRESTRON TSS-1070-T-W-S-LB KIT
AV-RX-1	RECEIVER, (4096 X 2160) RESOLUTION. CONNECTIONS: (1) DM RJ45 INPUT, (1) COM RS-232, (1) IR, (1) HDMI OUTPUT. FREQUENCY RESPONSE: 20 HZ - 20 KHZ @ +0.5DB. POWER SUPPLY: INPUT: 100-240 VAC, 50-60 HZ OUTPUT: 24 VDC, 1.25A.	CRESTRON HD-RXC-101-C-E EXTRON
AV-RX-2	RECEIVER, (4096 X 2160) RESOLUTION. CONNECTIONS: (1) DM RJ45 INPUT, (1) HDMI OUTPUT. FREQUENCY RESPONSE: 20 HZ - 20 KHZ @ +0.5DB. POWER SUPPLY: INPUT: 100-240 VAC, 50-60 HZ OUTPUT: 24 VDC, 1.25A.	CRESTRON HD-RX-101-C-E EXTRON
AV-SP1-C	PERFORMANCE AUDIO SPEAKER, CEILING MOUNTED, RECESSED, SOUND REINFORCEMENT, HEMISPHERICAL DISPERSION, FULL RANGE TYPE WITH BASS REFLEX ENCLOSURE. 70V CONTINUOUS POWER HANDLING, SENSITIVITY: 90dB SPL @ 1W/1M, 70Hz-20kHz FREQUENCY RESPONSE.	JBL PRO 26CT TANN0Y SOUNDTUBE EV
AV-SW-1	FULLY MODULAR AND EXPANDABLE 16X16 DIGITAL MEDIA MATRIX SWITCHER. (4096X2160) RESOLUTION CONNECTIONS. SUPPORTED HDMI 2.0B SPECIFICATION FEATURES INCLUDE DATA RATES UP TO 15.2 GBPS, AND HD LOSSLESS AUDIO FORMATS. OUTPUTS ARE CONFIGURABLE TO PROVIDE UP TO 16 DM OUTPUTS, HDBaseT, AND/OR HDMI OUTPUTS IN A SINGLE CHASSIS. MOUNTING: (7) RU. POWER REQUIREMENTS: 7 AMPS @ 100-240VAC, 50/60 Hz. POWER CONSUMPTION: 440 WATTS.	CRESTRON DM-MD16X16-CPU3 EXTRON

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EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
AV-TP1-S	AUDIO/VIDEO TOUCHPANEL CONTROL PANEL, WIRELESS DESKTOP/PODIUM MOUNT, 6" ACTIVE MATRIX COLOR SCREEN, 2-WAY COMMUNICATION, 320x240 RESOLUTION, 16 BIT NON-PALETTE GRAPHICS, 4M BYTES OF FLASH MEMORY, 8M BYTES OF SDRAM MEMORY. 5 BUTTONS ON EACH SIDE OF DISPLAY, PROVIDE WITH 2-WAY TRANSCEIVER, DOCKING STATION AND NiMh BATTERY PACK.	CRESTRON STX-1700C ST-DS ST-BTP EXTRON
AV-TP1-W	7" TOUCH SCREEN PANEL, WALL MOUNT. (1024 X 600) RESOLUTION, 24-BIT COLOR DEPTH, EDGELIT LED WITH AUTO BRIGHTNESS CONTROL. (1) PoE ETHERNET PORT, 10/100 Mbps, FULL/HALF DUPLEX, (1) USB 2.0.	CRESTRON TSW-760-B-S EXTRON
AV-TX-1	TRANSMITTER, (4096 X 2160) RESOLUTION. CONNECTIONS: (1) DM RJ45 OUTPUT, (1) HDMI INPUT. FREQUENCY RESPONSE: 20 HZ - 20 KHZ @ +0.5DB. POWER SUPPLY: INPUT: 100-240 VAC, 50-60 HZ OUTPUT: 24 VDC, 1.25A.	CRESTRON HD-TX-101-C-E EXTRON
AV-TX-2	TRANSMITTER, (4096 X 2160) RESOLUTION. 3x1 MANUAL OR AUTO SWITCHING. CONNECTIONS: (1) DM RJ45 OUTPUT, (2) HDMI INPUT, (1) VGA INPUT, (1) AUDIO INPUT. FREQUENCY RESPONSE: 20 HZ - 20 KHZ @ +0.5DB. POWER SUPPLY: INPUT: 100-240 VAC, 50-60 HZ OUTPUT: 24 VDC, 1.25A.	CRESTRON HD-TX-301-C-E EXTRON
AV-UPS-1	UPS, RACK MOUNT. 3000VA. 120VAC INPUT. NETWORK CONTROL.	APC SRT3000RMXLA-NC
AV-WP1-S	TABLE TOP COVER PLATE. FLUSH MOUNT IN A 4" ROUND HOLE. INCLUDES (1) 120V OUTLET AND (4) SPACES FOR CUSTOMER SUPPLIED CABLES. (2) SOFT TOUCH BUTTONS WITH LED INDICATORS. PROVIDE WITH (1) HDMI, AND (1) RJ-45 CABLES.	CRESTRON TT-100 EXTRON
AV-WP1-W	WALL BOX, FLUSH MOUNT. DIMENSIONS: 14.25" x 7" x 4". (3) SINGLE GANG KNOCKOUTS AND (1) IPS KNOCKOUT TO MOUNT UP TO SIX SINGLE IPS PLATES.	FSR PWB-250
IC-CH1-W	INTERCOM DOOR BELL CHIME, WALL MOUNT. 12-24 VDC MULTI-TONE ELECTRONIC CHIME. THREE DIFFERENT TONES ARE AVAILABLE. CONTRACTOR SHALL COORDINATE WITH OWNER FOR WHICH TONE IS DESIRED. INCLUDE HIGH-LOW VOLUME CONTROL, MOUNTS IN A SINGLE GANG BOX, SOUND OUTPUT OF 80-88dB, COLOR WHITE, ABS PLASTIC CONSTRUCTION.	ATW PC300 APPROVED EQUAL
IC-IM1-D	INTERCOM MASTER STATION. 7" TOUCHSCREEN LCD, SELECTIVE DOOR RELEASE CONTROLS, ROOM TO ROOM CALLING, DOOR STATION MONITORING, HEARING AID T-MODE COMPATIBILITY. DIGITAL PAN, TILT AND ZOOM. ALLOWS CONNECTION OF FOUR (4) DOOR STATIONS AND EIGHT (8) MONITORS. PROVIDE WITH DESK MOUNT AND POWER SUPPLY.	AIPHONE JP-4MED MOUNT: MCW-S/A POWER SUPPLY: PS-2420UL
IC-IS1-W	INTERCOM STATION. WIDE ANGLE CAMERA W/ 170-DEGREE VIEW. DIGITAL PAN, TILT AND ZOOM FROM MASTER STATION. LED ILLUMINATION. MOUNTS FLUSH IN WALL WITH INCLUDED BACKBOX. PROVIDE WITH SURFACE MOUNT BOX AS REQUIRED. PROVIDE WITH DOOR RELEASE MODULE. INSTALL AT 51" AFF TO CENTERLINE. MOUNT IN 4-11/16" BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING TURNED 90-DEGREES AND CAPPED WITH NYLON BUSHING.	AIPHONE JP-DA DOOR RELEASE MODULE: RY-3DL
PW-HH-1	HANDHOLE, 24"W x 36"L, COMPOSITE POLYMER CONCRETE BODY AND COVER. STAINLESS STEEL HARDWARE BOLTED NON-SKID COVER RATED FOR 15,000LB. DESIGN LOAD OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. "COMMUNICATIONS" LOGO ON HANHOLE COVER. PROVIDE UNITS/EXTENSIONS AS REQUIRED BY CONDUIT DEPTH. CONTRACTOR SHALL FIELD VERIFY QUANTITY AND LOCATIONS. REFER TO DETAIL 2/T4.0 FOR ADDITIONAL INFORMATION.	HUBBELL/QUAZITE [PG2424BB24] [PG2424HA00] CARSON INDUSTRIES ARMORCAST HIGHLINE PRODUCTS SYNERTECH
PW-JB1-W	JUNCTION BOX, SURFACE MOUNT, SIZE PER N.E.C., SEE SPECIFICATIONS FOR GENERAL CONSTRUCTION, USE OF THIS SYMBOL DOES NOT INDICATE ALL JUNCTION BOXES REQUIRED FOR THIS CONTRACT ARE SHOWN.	SEE SPECIFICATIONS
SC-ER-1	STANDARD 19" EQUIPMENT RACK, 84"H X 19"W X 15"D, FEATURING PASS-THRU HOLES ON FRONT AND SIDES FOR CABLE MANAGEMENT (HUBBELL VS76H), DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENT AND PROVIDES (45) 19" X 1.75" MOUNTING SPACES. PROVIDE WITH TOP CENTER WATERFALL, TOP CHANNEL PATHWAY FOR LADDER RACK, AND ANY ADDITIONAL HARDWARE FOR COMPLETE INSTALLATION. REFER TO SPECIFICATIONS SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	HUBBELL HPW84RR19 ORTRONICS COMMSCOPE PANDUIT
SC-FDC-2	OPTICAL FIBER DISTRIBUTION CABINET, RACK MOUNT. 96 FIBER MAXIMUM CAPACITY, FRONT LOCKING DOOR, SLIDE OUT RAILS TO FACILITATE FRONT ACCESS, JUMPER TROUGHS IN CONNECTOR PANELS TO REDUCE MOUNTING SPACE. REQUIRES (2) 19" X 1.75" RACK MOUNTING SPACES. PROVIDE WITH CLAMP AND GROUNDING KIT, COUPLING PANEL(S), JUMPERS, AND REAR MOUNTED CLOSET HOUSING PANEL(S). REFER TO SPECIFICATIONS SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CORNING CCH-02U HUBBELL
SC-GND-1	GROUNDING BUSBAR, WALL MOUNT. 4" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. COPPER GROUND BAR IS 1/4" THICK AND STAND OFF 2.75" FROM WALL. THE 12" BUSBAR PROVIDES CONNECTION FOR EIGHTEEN (18) 2-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO GROUND BAR DETAIL ON X/TXXX AND SPECIFICATION SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CHATSWORTH 40153-012 PANDUIT ERICO HARGER
SC-GND-2	19" RACK-MOUNT HORIZONTAL GROUND BAR. (3/16" x 3/4" X 19") PROVIES CONNECTION FOR (10) 2-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO SPECIFICATION SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CHATSWORTH 10610-019 NEWTON PANDUIT ERICO
SC-HWM-1	HORIZONTAL WIRE MANAGEMENT, 1.5" X 3" PRE-ASSEMBLED D-RINGS ON FRONT, 1.5" X 5" PRE-ASSEMBLED D-RINGS ON REAR. PROVIDE WITH COVER. REQUIRES (1) 1.75" MOUNTING SPACE.	HUBBELL HM14 + HC33WF SYSTIMAX SIEMON ORTRONICS
SC-HWM-2	HORIZONTAL WIRE MANAGEMENT, 3" X 3" RIGID FRONT FINGERS WITH FLEXIBLE RETENTION TABS, 2" X 5" FLEXIBLE REAR FINGERS. REMOVABLE FRONT COVER HINGES 180 UP OR DOWN. INTEGRAL BEND RADIUS CONTROL. PASS THROUGH HOLES ALLOW FRONT TO REAR CABLING. REQUIRES (2) 1.75" MOUNTING SPACES.	HUBBELL HM277C SYSTIMAX SIEMON ORTRONICS
SC-IO-C	INFORMATION OUTLET, CEILING MOUNT. 2-PORT COVERPLATE AS INDICATED ON DRAWINGS AND INFORMATION OUTLET SCHEDULE. REFER TO INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT 6" BEYOND BOX AND TERMINATE WITH NYLON BUSHING OR UNLESS OTHERWISE NOTED. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS.	HUBBELL COVER PLATE: IFP12 SERIES JACK: (CAT6) HXJ6 SERIES COMMSCOPE UNIPRISE PANDUIT BELDEN ORTRONICS LEVITON
SC-IO-F	INFORMATION OUTLET, FLOORBOX OR POKE-THROUGH MOUNT. 2, 4, 6-PORT COVERPLATE AS INDICATED ON DRAWINGS AND INFORMATION OUTLET SCHEDULE. REFER TO INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. INSTALL INFORMATION OUTLET IN E.C. PROVIDED FLOORBOX. PROVIDE ADAPTER PLATE FOR 106-TYPE FACEPLATE WHERE REQUIRED. COORDINATE ADDITIONAL MOUNTING REQUIREMENTS WITH E.C. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	HUBBELL COVER PLATE: IFP12 SERIES IFP14 SERIES IFP16 SERIES JACK: (CAT6) HXJ6 SERIES (CAT6A) HJ6A SERIES COMMSCOPE UNIPRISE PANDUIT BELDEN ORTRONICS LEVITON
SC-IO-W	INFORMATION OUTLET, WALL MOUNT. 2, 4, OR 6-PORT COVERPLATE AS INDICATED ON DRAWINGS AND INFORMATION OUTLET SCHEDULE. REFER TO INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. " # "INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS. " W " PROVIDE (1) RJ-45 JACK FOR VOICE AT +48" AFF FOR WALL HUNG PHONE. PROVIDE WITH STAINLESS STEEL FACEPLATE, MATING LUGS. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	HUBBELL COVER PLATE: IFP12 SERIES IFP14 SERIES IFP16 SERIES JACK: (CAT6) HXJ6 SERIES (F-CONNECTOR) SFFWX COMMSCOPE UNIPRISE PANDUIT BELDEN ORTRONICS LEVITON
SC-MPP-2	MODULAR PATCH PANEL, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	HUBBELL CAT 6: HP648 COMMSCOPE UNIPRISE PANDUIT BELDEN ORTRONICS LEVITON

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD, 4'X8'X3/4" A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT 8'-6" AFF. IN THE EVENT THE MANUFACTURER'S RATING STAMP IS NOT VISIBLE ON THE SMOOTH SIDE, THE CONTRACTOR SHALL PROVIDE A LAMINATED LETTER FROM THE MANUFACTURER OR SUPPLIER CERTIFYING THAT THE PLYWOOD IS FIRE-RATED AND ATTACH THE LETTER WITH A PICTURE OF THE RATING STAMP, TO THE PLYWOOD. FIRE RATED PLYWOOD SHALL NOT BE PAINTED OR TREATED WITH ANY TYPE OF SEALANT THAT WOULD LESSEN THE INTEGRITY OF THE FIRE RATING.	.
SC-VWM-1	SINGLE-SIDED VERTICAL WIRE MANAGER, 7'H X [XX"W] X 12.5"D. REMOVABLE FRONT COVER HINGES ON LEFT OR RIGHT. SPOOLS FOR INTEGRAL BEND RADIUS CONTROL.	HUBBELL VS76H SYSTIMAX PANDUIT ORTRONICS
TV-AMP-1	TWO-WAY BROADBAND DISTRIBUTION AMPLIFIER. POWER DOUBLING CAPABLE, 30 DB GAIN, 10 DB GAIN CONTROL RANGE, 8 DB SLOPE CONTROL RANGE, INPUT/OUTPUT TEST PORTS. PROVIDE WITH EXTERNAL POWER SUPPLY.	BLONDER TONGUE BIDA 5900 SERIES RL DRAKE CHANNEL MASTER
TV-TVE-1	INLINE EQUALIZER. FREQUENCY RANGE OF 5-1000 MHz.	BLONDER TONGUE ILEQ-1000 RL DRAKE CHANNEL MASTER
TV-TVP-1	INLINE SURGE PROTECTOR. 75Ω, FREQUENCY RANGE OF DC TO 1.5 GHz.	TII TECHNOLOGIES 212 SERIES
TV-TVS-2	TELEVISION SPLITTER. 2-WAY INDOOR DIGITAL READY SPLITTER. IN-LINE STYLE WITH SOLDER BACK. FREQUENCY RANGE OF 5-1000 MHz.	BLONDER TONGUE DGS-2 RL DRAKE CHANNEL MASTER
TV-TVT-4	TELEVISION TAP. 8-OUTPUT INDOOR DIGITAL READY DIRECTIONAL TAP. FREQUENCY RANGE OF 5-1000 MHz.	BLONDER TONGUE DGT-8 RL DRAKE CHANNEL MASTER
VS-CM-1	2 MEGAPIXEL IP CAMERA WITH 3.2MM TO 10MM MOTORIZED VARIFOCAL LENS. H264 AND H.265 COMPRESSION, WIDE DYNAMIC RANGE, POE POWERED, INTEGRATED IR VIEWABLE TO 30M, RATED FOR -22 DEGREES F TO 131 DEGREES F. CEILING/SURFACE MOUNT	CAMERA: HANWHA QNV-6082R
VS-CM-2	2 MEGAPIXEL IP CAMERA WITH 3.2MM TO 10MM MOTORIZED VARIFOCAL LENS. H264 AND H.265 COMPRESSION, WIDE DYNAMIC RANGE, POE POWERED, INTEGRATED IR. CEILING MOUNT.	CAMERA: HANWHA QND-6082R
VS-CM-3	2 MEGAPIXEL IP CAMERA WITH 3.2MM TO 10MM MOTORIZED VARIFOCAL LENS. H264 AND H.265 COMPRESSION, WIDE DYNAMIC RANGE, POE POWERED, INTEGRATED IR VIEWABLE TO 30M, RATED FOR -22 DEGREES F TO 131 DEGREES F. WALL MOUNT WITH SBP-137WMW MOUNT.	CAMERA: HANWHA QNV-6082R

FEH DESIGN
SIOUX CITY, IA (712) 252-3889
DES MOINES, IA (515) 288-2000
DUBUQUE, IA (563) 583-4900
OCONOMOWOC, WI (262) 968-2055
IN ASSOCIATION WITH

SHEET TITLE
TECHNOLOGY SCHEDULES

PROJECT TITLE
CITY OF POLK CITY, IOWA
POLK CITY NEW CITY HALL
200 S 4TH STREET
POLK CITY, IOWA 50226

DATE ISSUED 2-13-2023
REV. NO. DATE

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REF. SCALE IN INCHES PROJECT #22006578.00

PROJECT NUMBER
2022213.02

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T6.1

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ORDINANCE NO. 2023-4000

AN ORDINANCE AMENDING THE MUNICIPAL CODE OF THE CITY OF POLK CITY, IOWA, BY REZONING OF THE CITY OF POLK CITY PROPERTY LOCATED AT 214 S 3RD STREET AND 302 W VAN DORN STREET FROM C-1 CENTRAL BUSINESS DISTRICT TO U-1 PUBLIC UTILITY DISTRICT

WHEREAS, on the 20 day of February 2023, the Planning and Zoning Commission of the City of Polk City, Iowa, recommended to the City Council that the property legally described as:

> LOTS 1,2,3, 4 AND THE NORTH/SOUTH ALLEY AND EAST/WEST ALLEY IN BLOCK 13, POLK CITY, POLK COUNTY, IOWA, SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD;
> AND
> THE ABUTTING FULL RIGHT-OF-WAY FOR W. VAN DORN STREET, THE ABUTTING NORTHEAST ONE-HALF RIGHT-OF WAY FOR W. WOOD STREET, THE ABUTTING NORTHWEST ONE-HALF RIGHT-OF-WAY FOR S. 3RD STREET, AND THE ABUTTING SOUTHEAST ONE-HALF RIGHT-OF-WAY FOR S. 4TH STREET

be considered for rezoning from zoning classification C-1 Central Business District to U-1 Public Utility District; and

WHEREAS, after due notice and hearing as provided by law, the City Council now deems it reasonable and appropriate to rezone said property.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF POLK CITY, IOWA:

Section 1: That the Municipal Code of the City of Polk City, Iowa, be and is hereby amended by rezoning 1.055 acres from the zoning classification of C-1 Central Business District to U-1 Public Utility District.

Section 2: All Zoning Regulations, as applicable, shall apply.

Section 3: All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Section 4: This ordinance shall be in full force and effect after its passage, approval and publication as provided by law.

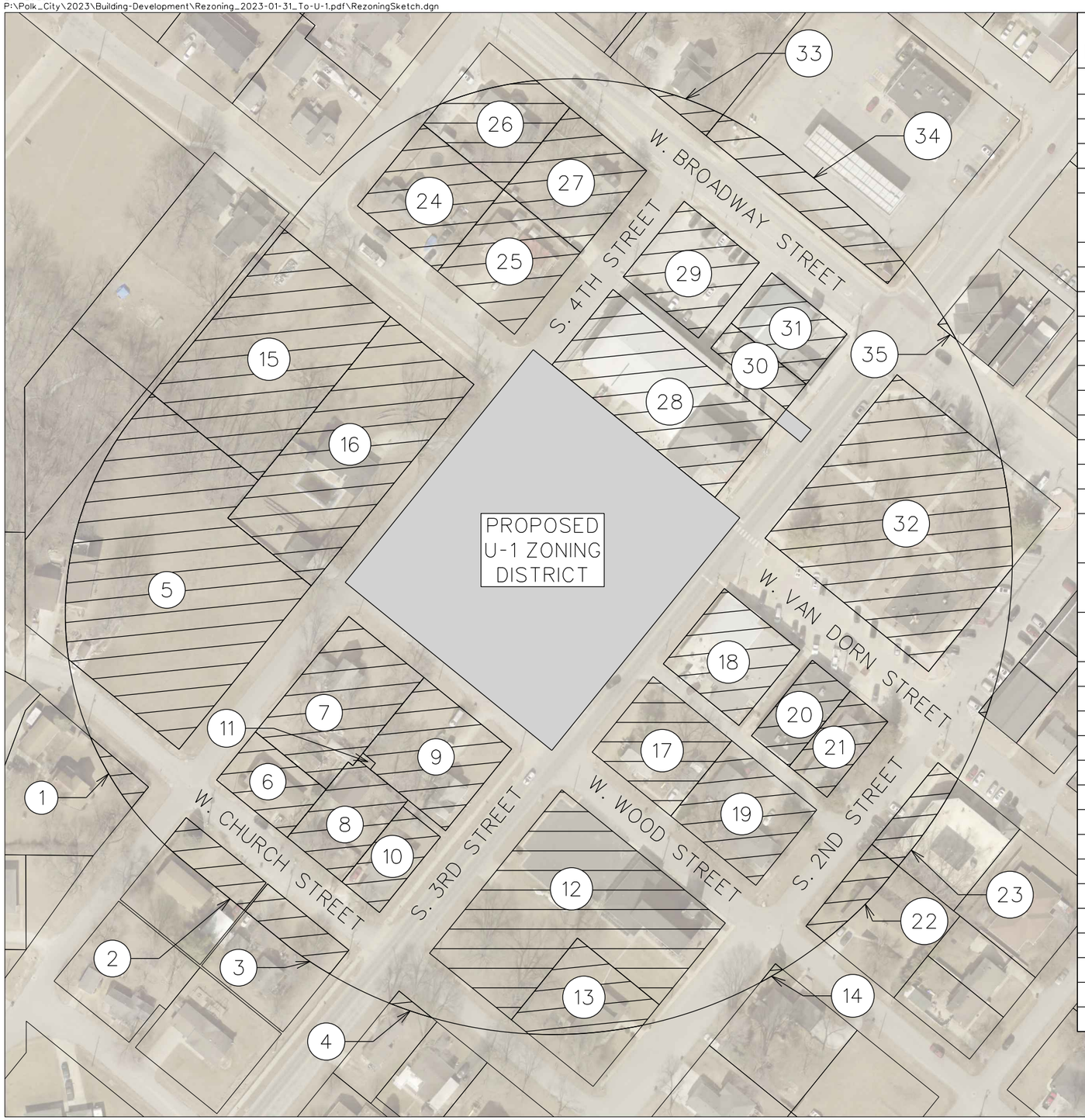
PASSED AND APPROVED this_____ of _____ 2023.

_____
Steve Karsjen, Mayor

ATTEST:

_____
Jenny Coffin, City Clerk

First Reading:
Second Reading:
Third Reading:
Date of Publication by posting



PARCEL NUMBER	PROPERTY OWNER	OWNER ADDRESS
1	Audrey and Darrell Rude	406 4th Street
2	Tracy and Vicky Robinson	314 W. Church Street
3	John Pearce	402 S. 3rd Street
4	Debra Woolsoncroft	401 S. 3rd Street
5	Dennis and Georgene White	408 W. Church Street
6	NW Bell Telephone Company	1801 California St. Ste 2500 Denver, CO 80202
7	Michael Bueltel	314 W. Wood Street
8	City of Polk City	305 W. Church Street
9	Michael Bueltel	306 S. 3rd Street
10	City of Polk City	314 S. 3rd Street
11	City of Polk City	
12	ACG Properties, LLC.	302 S. 2nd Street
13	Laurel Friedman	314 S. 2nd Street
14	Frances and William Magie	301 S. 2nd Street
15	Cheryl Newby	502 W. Van Dorn Street
16	Richard and Rosemary Taylor	402 W. Van Dorn Street
17	Michael Bueltel	213 S. 3rd Street
18	Maximum Properties, LLC.	711 SE 6th Street Grimes, IA 50111
19	John Boelkes and Kimberly Graziano Boelkes	204 W. Wood Street
20	K Ventures, LLC.	711 SE 6th Street Grimes, IA 50111
21	John and Marshal Lindahl	202 W. Van Dorn Street
22	Jeri and Ronnie Crowdis	109 W. Wood Street
23	Penta Partners, LLC.	110 W. Van Dorn Street
24	Mark Toomer	415 W. Van Dorn Street
25	Betty Miller	405 W. Van Dorn Street
26	Harvey Blackman	414 W. Broadway Street
27	Mark McKinley	402 W. Broadway Street
28	City of Polk City	112 S. 3rd Street
29	City of Polk City	
30	Operative Lodge 308 Trustees	106 N. 3rd Street
31	Bruce A Boland Trust	302 W. Broadway Street
32	Polk City Park	
33	First Choice Renovations, LLC.	401 W. Broadway Street
34	Krausewa, LC.	113 N. 4th Street
35	Fandel Holdings, LLC.	221 W. Broadway Street

SNYDER & ASSOCIATES

0 60 120
FEET

N

New City Hall/Community Center

250' Rezoning Buffer

Polk City, Iowa

02/01/2023