CITY OF ANAMOSA

CITY COUNCIL AGENDA – REGULAR SESSION

MONDAY, JULY 10, 2023 – 6:00 P.M.
ANAMOSA LIBRARY & LEARNING CENTER
600 EAST 1ST STREET, ANAMOSA, IA 52205

Zoom Meeting Link	Join by Telephone
https://us02web.zoom.us/j/8012629567	+1 312 626 6799 US
Meeting ID: 801 262 9567	Meeting ID: 8901 262 9567
Passcode: Anamosa	Passcode: 4952698

If you wish to address the City Council, please wait for the Mayor to open the floor for public comment on that agenda item and then approach the podium. Before speaking, please state your name and address. Each speaker is limited to five (5) minutes per agenda item and is expected to refrain from the use of profane, obscene, or slanderous language.

The above Zoom link does not allow for participation in the meeting. It is for viewing only.

1.0) ROLL CALL

2.0) PLEDGE OF ALLEGIANCE

3.0) MOTION TO APPROVE THE MINUTES FROM THE FOLLOWING MEETINGS:
- **3.1)** JUNE 26, 2023 – REGULAR SESSION

4.0) PUBLIC HEARINGS:
- **4.1)** **PUBLIC HEARING –** COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS FOR THE HOUSING REHABILITATION (PAULA MITCHELL, CDBG)
  1. MAYOR OPENS PUBLIC HEARING
  2. PROCEEDINGS
  3. MOTION TO CLOSE PUBLIC HEARING

5.0) OLD BUSINESS:
- **5.1)** **PRESENTATION –** EXCAVATOR COST-BENEFIT REVIEW AND COMPARISON (STEVE AGNITSCH)
- **5.2)** **DISCUSSION & POSSIBLE ACTION –** PURCHASE OF EXCAVATOR TRAILER FOR UTILITIES DEPARTMENT. (STEVE AGNITSCH)
- **5.3)** **DISCUSSION & POSSIBLE ACTION –** PURCHASE OF LAWN MOWERS FOR UTILITIES AND STREETS DEPARTMENTS. (STEVE AGNITSCH/SHANE BROWN)
- **5.4)** **DISCUSSION & POSSIBLE ACTION –** CITY PROPERTY LOCATED AT 306 N. DAVIS STREET.
- **5.5)** **RESOLUTION 2023-46 –** SETTING THE DATE OF A PUBLIC HEARING TO CONSIDER THE PLANNING & ZONING COMMISSION'S RECOMMENDATIONS TO AMEND ZONING ORDINANCE 167.14 BUILDING STANDARDS, REMOVING THE PROHIBITION OF VERTICAL, COLORED METAL SIDING IN THE C-1 CENTRAL COMMERCIAL DISTRICT. **ROLL VOTE.**
- **5.6)** **REVIEW & APPROVE –** PAY REQUEST #8 FROM DAVE'S COMPLETE CONSTRUCTION, IN THE AMOUNT OF $98,828.51, FOR THE POLICE STATION RENOVATION PROJECT.
- **5.7)** **REVIEW & APPROVE –** PAY REQUEST FROM HR GREEN, IN THE AMOUNT OF $942.00, FOR GIS SERVICES THROUGH JUNE 23, 2023.
- **5.8)** **REVIEW & APPROVE –** PAY REQUEST FROM SNYDER & ASSOCIATES, IN THE AMOUNT OF $7,809.00, FOR THE US 151 GRADE SEPARATION AND ROUNDABOUT PROJECT.
- **5.9)** **REVIEW & APPROVE –** PURCHASE OF REPLACEMENT FIRE HOSE FOR THE ANAMOSA FIRE DEPARTMENT.
- **5.10)** **REVIEW & APPROVE –** SITE PLAN FOR THE JONES COUNTY FAMILY DENTISTRY PROJECT IN THE PROPOSED NORTHLANDS SUBDIVISION.
- **5.11)** **REVIEW & APPROVE –** POLICE CHIEF RECRUITMENT/APPOINTMENT TIMELINE AND APPLICATION PACKET.

6.0) NEW BUSINESS:
- **6.1)** **REVIEW & APPROVE –** NOISE/STREET CLOSURE PERMIT APPLICATION
- **6.2)** **REVIEW & APPROVE** – CURRENT BILLS

7.0) CITY ADMINISTRATOR'S REPORT:

8.0) MAYOR AND COUNCIL REPORTS:

- **8.1)** MAYOR'S REPORT
- **8.2)** COUNCIL REPORTS

9.0) PUBLIC COMMENT FOR ITEMS NOT ON THE AGENDA

10.0) ADJOURNMENT

STATEMENT OF COUNCIL PROCEEDINGS
JUNE 26, 2023

The City Council of the City of Anamosa met in Regular Session June 26, 2023, at the Anamosa Library and Learning Center and via Zoom at 6:00 p.m. with Mayor Rod Smith presiding. The following Council Members were present: Rich Crump, Kay Smith, Jeff Stout, Brooke Gombert, Alan Zumbach and Teresa Tuetken. Absent: None. Also present: Jeremiah Hoyt, Interim City Administrator/City Clerk and Penny Lode, Deputy Treasurer. Iowa Code Chapter 21, as interpreted, permits public meetings to be held electronically.

Mayor Rod Smith called the meeting to order at 6:00 p.m. Roll call was taken with a quorum present.

Motion by Crump, seconded by Zumbach to approve minutes of 06/12/23 Regular Council Meeting. Ayes: all. Nays: none. Motion carried.

Mayor Smith opened the public hearing regarding the Wastewater Flow Equalization Improvement Project.

Public Comments: none

Motion by Crump, seconded by Tuetken to close the public hearing.

Motion by Crump, seconded by Smith approving Resolution 2023-40 approving the grant application for the Wastewater Flow Equalization Improvement Project. Roll vote: Ayes-Tuetken, Zumbach, Stout, Gombert, Crump, Smith. Nays-none. Motion carried.

The council reviewed documents provided for the Police Department Renovation project. Hoyt stated they are still hoping for a July move-in date.

The council reviewed documents provided by Snyder & Associates for project updates.

Andrew Marsh, HR Green took questions from Council on current projects.

Motion by Smith, seconded by Zumbach approving the Administrative Plan, Procurement Policy, Certification of Compliance, and Notice of Public Hearing/Bid Letting for the Downtown Façade Revitalization Phase 2. Ayes: all. Nays: none. Motion carried.

Motion by Smith, seconded by Stout approving the Economic Development Committee proposal presented by Derek Lumsden, Jones County Economic Development Director. Ayes: all. Nays: none. Motion carried.

Motion by Crump, seconded by Tuetken approving Resolution 2023-41 setting date for Public Hearing to discuss CDBG Housing Rehab Grant funded activities. Roll vote: Ayes – Smith, Zumbach, Stout, Gombert, Crump, Tuetken. Nays – none. Motion carried.

Motion by Crump, seconded by Smith approving Resolution 2023-42 setting salaries for Fiscal Year 2024 for appointed officers and employees of the City of Anamosa, Iowa; and establishing an effective date for this resolution. Roll vote: Ayes- Tuetken, Zumbach, Stout, Gombert, Crump, Smith. Nays – none. Motion carried.

Motion by Crump, seconded by Stout approving consent agenda for pay requests to HR Green: $1,500.03 for Jordan Well #6; $7,599.84 for Booth St Water Main & Storm Sewer Replacement; $700.00 for WTP Disinfection System CPS; $28,351.75 for Cedar & Huber Reconstruction; $420.00 for 3rd St Sidewalk Extension; and $910.00 for Sidewalk Program. Ayes: all. Nays: none. Motion carried.

Motion by Zumbach, seconded by Crump approving Change Order #7 from Dave's Complete Construction in amount of $871.00 for Police Station Renovation Project. Ayes: all. Nays: none. Motion carried.

Motion by Stout, seconded by Tuetken approving Partial Pay Request #10 from Boomerang Construction in amount of $333,850.00 for Old Dubuque Rd Extension Project. Ayes: all. Nays: none. Motion carried.

Motion by Crump, seconded by Zumbach approving Pay Request from Snyder & Associates in amount of $4,446.00 for WWTP Flow Equalization Basin. Ayes: all. Nays: none. Motion carried.

Motion by Smith, seconded by Zumbach approving Pay Request from Snyder & Associates in amount of $15,618.00 for US 151 Grade Separation & Roundabout Project. Ayes: all. Nays: none. Motion carried.

Motion by Crump, seconded by Zumbach to withhold payment on Change Order from Boomerang Construction in amount of $3,729.42 for Fire Station Addition Project (2nd submittal). Ayes: Crump, Zumbach. Nays: Smith, Tuetken, Stout, Gombert. Motion failed.

Motion by Stout, seconded by Tuetken approving payment on Change Order from Boomerang Construction in amount of $3,729.42 for Fire Station Addition Project (2nd submittal). Ayes: Smith, Tuetken, Stout. Nays: Crump, Zumbach, Gombert. Motion failed.

Motion by Crump, seconded by Zumbach approving Pay Request from AEC Contracting in amount of $16,868.70 for Housing Rehab Program – 301 S Ford St. Ayes: all. Nays: none. Motion carried.

Motion by Crump, seconded by Zumbach approving payment to Henderson Products, Inc and Thompson Truck & Trailer in amounts of $76,200.40 and $88,610.00, total of $164,810.40 for the 2024 International Truck and equipment for Streets Department as authorized by Council and ordered in 2021. Ayes: all. Nays: none. Motion carried.

Motion by Tuetken, seconded by Crump approving Cigarette/Tobacco/Nicotine/Vapor Permit for Up In Smoke. Ayes: all. Nays: none. Motion carried.

Motion by Zumbach, seconded by Crump approving current bills. Ayes: all. Nays: none. Motion carried.

City Administrator's Report: Hoyt invited everyone to attend the fireworks display on July 3rd.

Mayor's Report: none.

Council Reports: Zumbach stated the car show organized by the Chamber went well and hopes to see it grow next year. Smith shared the new Library Board president is Ed Green and the Library is now penalty free.

Motion by Crump, seconded by Zumbach to enter into Closed Session per Iowa State Code Section 21.5 (I) – to evaluate the professional competency of an individual(s) who's appointment, hiring, performance, or discharge is being considered when necessary to prevent needless and irreparable injury to that persons reputation and that the individuals have requested a Closed Session. Mayor asked City Attorney, Patrick O'Connell to confirm that a Closed Session is indeed appropriate. O'Connell stated it is by definition of the Iowa State Code Section 21.5 (I). Ayes: all. Nays: none.

Council went into Closed Session.

Council returned to Open Session at 7:44 p.m.

Motion by Smith, seconded by Zumbach approving Resolution 2023-43 confirming the appointment of Jeremiah Hoyt as City Administrator. Roll vote: Ayes-Crump, Smith, Tuetken, Zumbach, Stout, Gombert. Nays: none. Motion carried.

Motion by Crump, seconded by Tuetken approving Resolution 2023-44 approving the appointment of Penny Lode as City Clerk. Roll vote: Ayes-Smith, Zumbach, Stout, Gombert, Crump, Tuetken. Nays: none. Motion carried.

Motion by Crump, seconded by Zumbach approving Resolution 2023-45 appointing Interim Chief of Police and setting interim salary. Roll vote: Ayes- Tuetken, Stout, Gombert, Smith, Crump, Zumbach. Nays: none. Motion carried.

Meeting adjourned at 7:58 p.m.

_____
Rod Smith, Mayor

ATTEST:

_____
Penny K. Lode, Deputy Treasurer

PUBLIC HEARING
Monday, July 10, 2023 at 6:00 P.M.
Anamosa Library and Learning Center, 600 E. 1st Street, Anamosa, IA 52205

THE PURPOSE OF THIS HEARING IS TO CONSIDER THE STATUS OF FUNDED ACTIVITIES FOR THE HOUSING REHABILITATION PROGRAM FOR ANAMOSA, IOWA, AS ASSISTED BY THE COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) PROGRAM (CONTRACT #21-HSG-003)

As required for this hearing, it is noted that:

a. For a general description of accomplishments to-date, **a CDBG Housing contract in the amount of $207,495 was awarded to the City of Anamosa from the Iowa Economic Development Authority with a release of funds issued on January 31, 2022.**

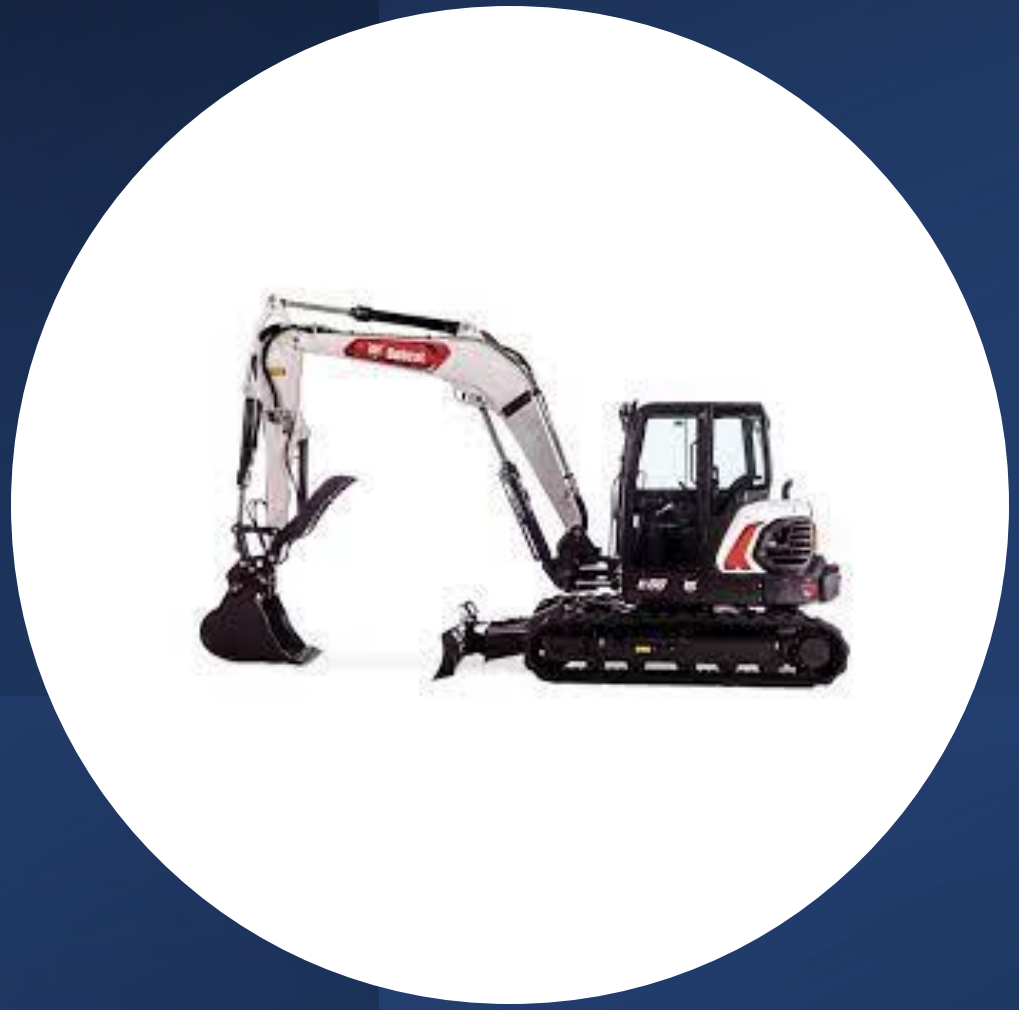
b. For a summary of expenditures to-date, **through June 30, 2023, a total of $188,584.70 has been invoiced; $141,709.70 for construction, and $346,875.00 for grant administration and technical services. Construction items included but were not limited to the replacement of roofs, gutters, siding, windows, doors, and steps, as well as lead hazard reduction items.**

c. For a general description of remaining work, **5 properties have been completed to date and that grant is in the monitoring and close out phase as of June 30, 2023.**

d. For a general description of changes made to the project budget, performance targets, activity schedules, project scope, location, objectives or beneficiaries, **No changes or amendments have been made at this time.**

Public in attendance:

Savings with Excavator



City of Anamosa

Robert Young, Assistant Utilities Superintendent

Project Completed by the City

- Multiple water main breaks.
- Valve replacement on west main and Elm st.
- Hydrant and valve replacement on Elm and Hickory.
- Storm Sewer install at the WWTF and Hamilton Ct.
- Meter pit installation at Wapsi, Tree park and Banana park.
- Building Demo- Bathrooms at ball field and house on Locust st and Walnut St.
- Creek clean up at 2nd St lift station
- Main reconstruction on Ford and 5th st
- Multiple road and street fixes.
- Huber Storm Sewer Repair
- 5th and S. Garnavillo Valve Replacement
- LCC Retaining Wall and Walkway

Cost for City to do project.

Cost	Cost of employees working on project: (range from 21 per hr. to34 per hr.)
Price	Price of material with no tax or mark ups
Truck and machines	Truck and machines are City owned
Average	Average time on project 8hrs

Projected Hours and Cost of Excavator

- Total cost of Bobcat E-88 Mini Excavator ($107,000.00)
  - Sept 2021 (0 hours)
  - June 2023 (162 Hours)
  - Projected Hours in 2031 (1020Hours)
    - Average of 8.5 hours per month
    - If we take overall cost of excavator and divide by projected hours

    107,000.00 / 1020 = $105.00 per hour, if used more than projected the cost per hour will decrease

    Example: projected hours of 1,500 hrs. cost per hour would be $71.00 per hour

Cost of Renting an Excavator of same size

- Rental for Bobcat E-85 Excavator (same as our E-88)= $600.00 per/day
- Rent for an 8-hour project
  - 3-day rental = $1,800.00
  - 2-day rental = 1,200.00

Following our projected ours of 8.5 hours per month and rental for 2 and 3-days

- 3-day rental total Cost over 10 years = $216,000.00
- 2-day rental total cost over 10 years = $144,000.00

Price of a contractor to do a project

Large Companies Price list from 2021

- Dump truck with driver= 150.00 per/hr
- General Labor= 65.00 per/hr
- Pipe Layer= 70.00 per/hr
- Forman w/truck and tools=95.00 per/hr
- Equipment Operator= 80.00 per/hr

Smaller Company Price:

Equipment, operator, and ditch person= 300.00 per/hr

Even when we have a contactor, we will still have some City staff on hand at the Project to help assist.

Rental Fees:

RexCo Equipment Inc

E-85- $600.00 per day/ 900 per WKND/ 1600 per WK/ 4500 per Month. Reguardless of the hours

Breakdown of cost with a contractor

- 8 hr. project, city supplies all material (valve replacement)
- Dump truck with driver= 1200.00
- Forman w/truck and tools= 760.00
- Pipe Layer= 560.00
- General Labor= 520.00

- Total for just the man hours= 3040.00

This doesn’t include the equipment or the mobilization fee for the project.

Past cost for projects 2019 thru2020

DATE	COST	NATURE OF WORK
10/22/2019	$ 5,910.13	Valve and hydrant replacement
12/17/2019	$ 2,433.73	Main Break
9/17/2020	$ 2,292.42	Valve replacement
12/8/2020	$ 2,414.34	Main Break
12/17/2020	$ 1,500.00	Main Break
12/29/2020	$ 2,100.00	Main Break
3/5/2020	$ 1,609.53	Main Break
3/5/2020	$ 2,243.76	Main Break
10/30/2019	$ 550.00	Water Main Repair
2/27/2019	$ 3,286.45	Water Main Repair
2/27/2019	$ 6,802.37	Water Main Repair
5/14/2019	$ 2,845.64	Water Main Repair
5/14/2019	$ 5,181.11	Water Main Repair
7/23/2020	$ 1,800.00	Water Main Repair
Total cost	$40,969.48	

Upcoming Projects for the City to be done inhouse

- Valve Replacement on Walworth, South Garnavillo and West 2nd St
- Hydrant replacement on South Garnavillo
- Remove Hydrant on North Garnavillo West Webster
- Replace Hydrant at Senior Dinning (hydrant is leaking/broke)
- Replace Hydrant on Knoll St (hydrant is leaking/broke)
- Valve replacement on East 3rd and 1st street (valve are broke)
- Tile for drains at the Anamosa Library
- Dakota St storm sewer project
- 10-20 valves need to replaced or added in the system.
- Sewer patch on Old Dubuque Rd
- Storm sewer fix on Kaitlynn Ave Replace Roland St flushing Hydrant (cracked and Broke)

Assuming only one project/month at: **8** **hours**

City of Anamosa Excavator		July	August	September	October	November	December	January	February	March	April	May	June	Annual	5 years	10 years
Excavator (Initial cost)	$107,000.00													N/A	N/A	N/A
Trailer w/o trade (Initial cost)	$ 22,000.00													N/A	N/A	N/A
	$129,000.00															
City Employee 1	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
City Employee 2	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
City Employee 3	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
														$ 9,792.00	$ 48,960.00	$ 97,920.00

Excavator Rental		July	August	September	October	November	December	January	February	March	April	May	June	Annual	5 years	10 years
Excavator		$1,200.00	$ 1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$ 14,400.00	$ 72,000.00	$144,000.00
City Employee 1	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
City Employee 2	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
City Employee 3	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
														$ 24,192.00	$120,960.00	$241,920.00

Small Company Contract		July	August	September	October	November	December	January	February	March	April	May	June	Annual	5 years	10 years
Excavator, Operator, and Additional Employee		$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 300.00	$ 3,600.00	$ 18,000.00	$ 36,000.00
City Employee 1	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
City Employee 2	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
														$ 10,128.00	$ 50,640.00	$101,280.00

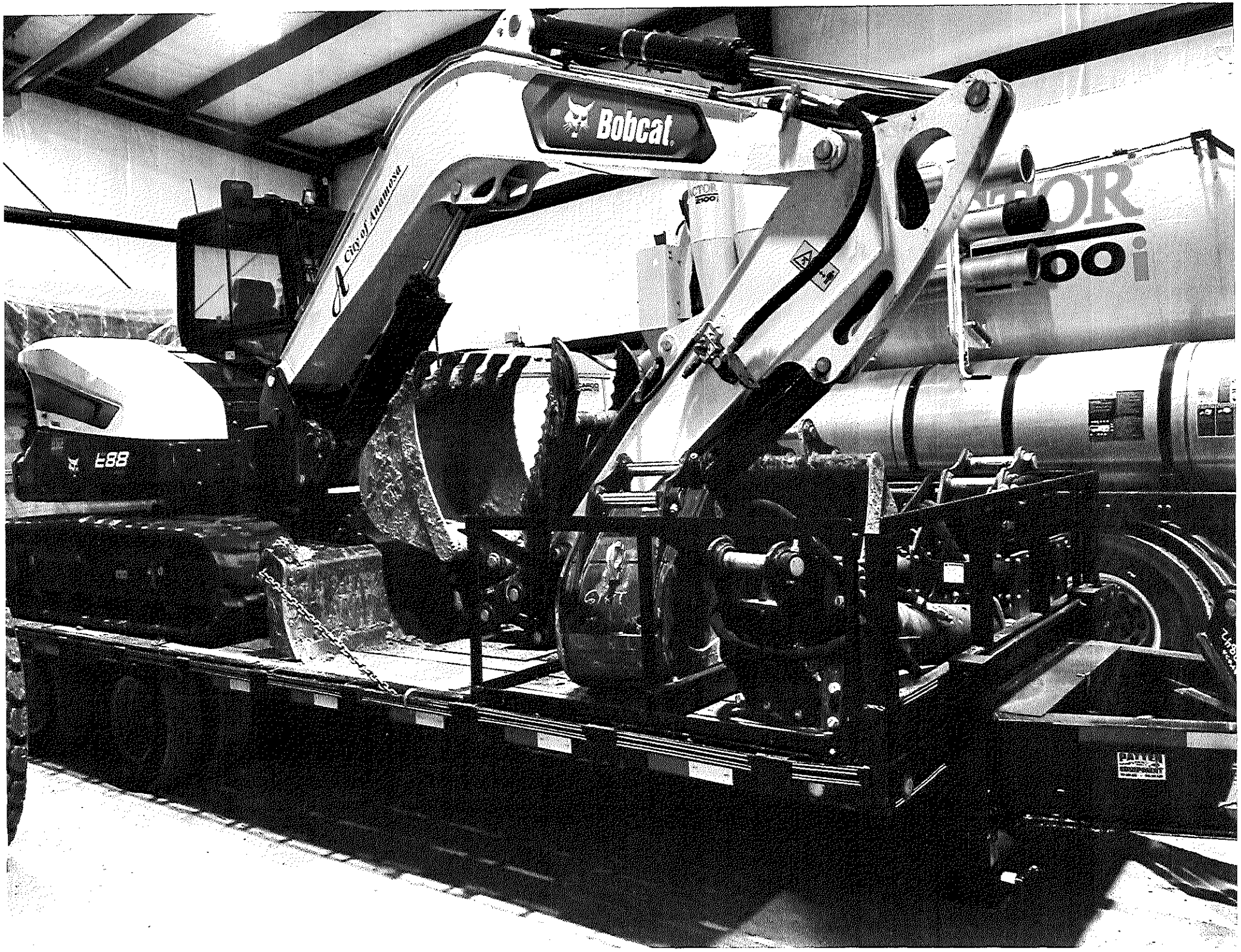
Large Company Contract		July	August	September	October	November	December	January	February	March	April	May	June	Annual	5 years	10 years
Excavator and Operator	$ 80.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 640.00	$ 7,680.00	$ 38,400.00	$ 76,800.00
Dump Truck and Operator	$ 150.00	$1,200.00	$ 1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,200.00	$ 14,400.00	$ 72,000.00	$144,000.00
Additional Employee (General Laborer)	$ 65.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 520.00	$ 6,240.00	$ 31,200.00	$ 62,400.00
Additional Employee (Pipe Layer)	$ 70.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 560.00	$ 6,720.00	$ 33,600.00	$ 67,200.00
dditional Employee with Truck/Tools (Foreman)	$ 95.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 760.00	$ 9,120.00	$ 45,600.00	$ 91,200.00
City Employee 1	$ 34.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 272.00	$ 3,264.00	$ 16,320.00	$ 32,640.00
														$ 47,424.00	$237,120.00	$474,240.00

New Trailer

The Utility Department needs to purchase a new trailer to haul the excavator around town. The current trailer is rated at 24,000. We need a 30,000 trailer. When the trailer is loaded down with the excavator and all the attachments, we are at the weight limit of the current trailer. The ramps on the current trailer are showing fatigue from loading and unloading the excavator. The new trailer will have heavier ramps and back jacks for added stability when loading and unloading. The ramps will also when in storage will be flat with the deck to increase deck size when hauling other items. We have received 3 quotes for the trailer and have also included the original purchase of the current trailer. We would like to purchase the B & B trailer from Rexco. They are made in Farley Iowa and can get parts directly from them. We also feel it is a heavier built trailer that will last longer. All trailers are 2-3 months out from order date.

Steve Agnitsch

Utility Superintendent


Bobcat
City of Inglewood
100i

Bobcat.

REXCO
EQUIPMENT, INC.

Rexco Equipment, Inc and Behnke Enterprises Partners in brining solutions to you!
We are please to present you with the estimate for your trailer needs.
City of Anamosa Est. 25288
Total price: $22,550 with Trailer Trade - $7,000 = Total $15,500
Customer Name:_____City of Anamosa _____
Customer Agreement:_____
Should you have any questions, let us know.

ESTIMATE #	DATE
25288	04/14/2023

ITEM	ITEM DESCRIPTION
FB8X25PT-30E With Beavertail	Heavy Duty Flatbed Trailer - Pull-type - 30,000 lb. GVW 20' Bed Length 5' Self-cleaning angle iron beavertail 8'6" Width 12" 22 Lb. I-Beam Frame (2) 15,000 lb. Dexter Oil Bath Axles with Electric and Forward Self-Adjusting Brakes (8) 215/75R/17.5 (16 Ply) Radial Tire with 17.5" 8-hole Dual Wheel Pintle Hitch Tongue Mount Toolbox 2-Speed Dual Jacks (2) 1/2" Grade 70 Safety Chains Rub Rail & Stake Pockets Steps On Both Sides 12-Volt Breakaway Kit with Full Charge Indicator, Switch, and Battery Modular Wire Harness Rubber Mounted LED Lights Center Turn Light Each Side Mud Flaps Reflector Tape Light plug holder Zinc Rich Primed and Powder Coated—Standard: Black
Trailer	Gorilla ramps that cover full width of beavertail

Aaron Prull
319-826-0679
Aaron@rexcomail.com

Shannon McDonald
319-855-2219
Shannon@rexcomail.com

1925 Blairs Ferry Rd NE
Cedar Rapids, IA 52402
319.393.2820

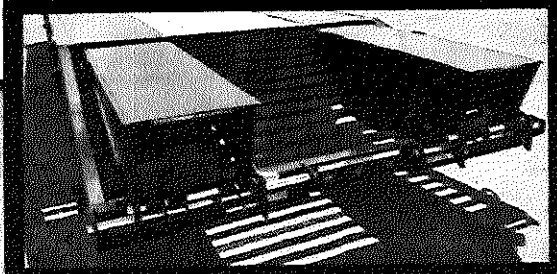
www.rexcoequipment.com

Heavy Duty Flatbed Trailer

FLATBED

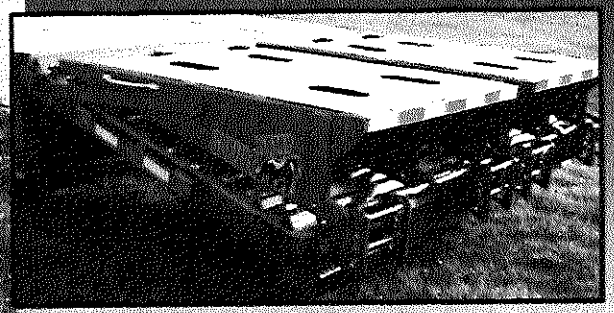
Optional Omaha Orange, Semi-style Jacks & Oak Flooring

Optional Center Flip-over Beavertail

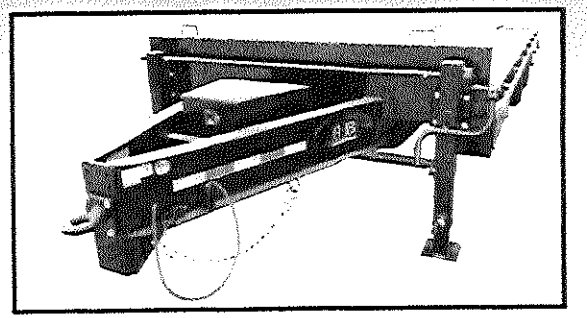


Optional Angle Iron Beavertail

Optional (3) Flip-over Ramps & Rumber Flooring



Optional Gorilla Ramps



Optional Tongue Mounted Toolbox

TRAILERS B-B BEHNKE ENTERPRISES, INC.

DEXTER AXLE

Manufactured by:

Behnke Enterprises, Inc. · 800 Ninth Ave. NW · Farley, IA 52046 · Ph. (563)744-3246 · Fax (563)744-9066

www.behnkeenterprises.com

Heavy Duty Flatbed Trailer

TRAILERS B-B BEHNKE ENTERPRISES, INC.

Pulltype

14-40,000 lb., No Beavertail		
Model	Length	Width
FB8X16PT	16'	8' 6"
FB8X18PT	18'	8' 6"
FB8X20PT	20'	8' 6"
FB8X22PT	22'	8' 6"
FB8X24PT	24'	8' 6"

14-40,000 lb., With Beavertail		
Model	Length	Width
FB8X21PT	16' + 5' Tail	8' 6"
FB8X23PT	18' + 5' Tail	8' 6"
FB8X25PT	20' + 5' Tail	8' 6"
FB8X27PT	22' + 5' Tail	8' 6"
FB8X29PT	24' + 5' Tail	8' 6"
5' Flip-over Ramps, Spring Assist		

Gooseneck

14-30,000 lb., No Beavertail		
Model	Length	Width
FB8X16GN	16'	8' 6"
FB8X18GN	18'	8' 6"
FB8X20GN	20'	8' 6"
FB8X22GN	22'	8' 6"
FB8X24GN	24'	8' 6"
FB8X26GN	26'	8' 6"
FB8X28GN	28'	8' 6"

14-30,000 lb., With Beavertail		
Model	Length	Width
FB8X21GN	16' + 5' Tail	8' 6"
FB8X23GN	18' + 5' Tail	8' 6"
FB8X25GN	20' + 5' Tail	8' 6"
FB8X27GN	22' + 5' Tail	8' 6"
FB8X29GN	24' + 5' Tail	8' 6"
FB8X31GN	26' + 5' Tail	8' 6"
FB8X33GN	28' + 5' Tail	8' 6"
FB8X35GN	30' + 5' Tail	8' 6"
5' Flip-over Ramps, Spring Assist		

Standard Axle Size

(2) 7,000 lb. Dexter E-Z Lube Axles with Electric and Forward Self-Adjusting Brakes
(4) ST235-80R-16E Radial Tire with White 8-Hole Wheel

Axle Upgrades	*Tire and Wheel*
(2) 8,000 lb. oil bath axle	Single 215/75R-17.5H tire and wheel
(2) 10,000 lb. general duty oil bath	Dual ST235-80R-16E tire and wheel
(2) 10,000 lb. heavy duty oil bath	Dual ST235-80R-16E tire and wheel
(2) 10,000 lb. heavy duty oil bath	Single 215-75R-17.5 tire and wheel
(2) 12,000 lb. heavy duty oil bath	Dual ST235-80R-16E tire and wheel
(2) 15,000 lb. heavy duty oil bath	Dual 215/75R-17.5H tire and wheel
(2) 20,000 lb. Air Brake	Dual 235/75R-17.5H tire and wheel

Standard Equipment

Frame (14 GVW)	12" 14.5 Lb. I-Beam	**Frame (24 GVW)**	12 x 22 Lb. I-Beam
Frame (16 GVW)	12" 14 Lb. I-Beam	**Frame (30 GVW)**	12 x 22 Lb. I-Beam
Frame (20 GVW)	12" 19 Lb. I-Beam	**Frame (40 GVW)**	12 x 26 Lb. I-Beam

Ramps	No Tail - No Ramp; With Tail - 5' Flip-over Ramps, Spring Assist
Hitch	Pintle, 2 5/16" Adjustable Coupler or 2 5/16" Adjustable Gooseneck
Floor	2 x 8 Treated Wood Floor
Tool Box	(1) 12" x 18" x 48" Toolbox
Jack	(1) 10,000 lb. Heavy Duty Spring Loaded Jack

Optional Beavertail: Angle iron; Center flip-up

Optional Gorilla Ramps

Standard Equipment

(2) 3/8 Safety Chains
Rub Rail & Stake Pockets
12-Volt Breakaway Kit
Modular Wire Harness
Rubber Mounted LED Lights
Mud Flaps
Reflector Tape
Zinc Primer and Powder Coat Finish -- Standard: Black, Red, Blue, Gray, Yellowstone

Manufactured by: Behnke Enterprises, Inc. ▪ 800 Ninth Ave. NW, Farley, IA 52046 ▪ Ph. (563)744-3246 ▪ Fax (563)744-9066

www.behnkeenterprises.com

DEXTER AXLE

Sales: 319-389-1567 or 319-361-0404
Parts & Warranty: 319-350-5301 * **Fax:** 319-443-3049
Website: www.pattenequipment.com
E-mail: trailers380@gmail.com

PATTEN EQUIPMENT

PO Box 25 * 550 North Union Ave.
Urbana, IA 52345

QUOTE

Date: 3/21/23 Name: City Of Anamosa

Address:

Phone: 558-8335 steve.agnitsch@anamosa-ia.org

New 2023 Lamar 25' pintle	$19,038.00
(2) 15,000# axles, 2 flip over	
ramps, 17.5 (16) ply tires, spare,	
torque tube, under-frame bridge, gray	
upgrade to full width Rhino Ramps	$801.00
Low pro option. Lower deck heigth	~~$806.00~~
by piercing the cross members through	
the frame + putting steel plates	
above the tires like your Elite is	
now. Lowers deck heigth 4"	
Trade in 2018 Elite 26' pintle	$8800.00
FREIGHT	

Brown Supply Company

$ 19839
- 8800
$ 11039

Salesperson Signature _____

To accept this quote, sign here: _____

Wright-Way Trailers

Company Info:
1100 North Center Point Rd
Hiawatha, IA 52233, USA
www.wrightwaytrailers.com

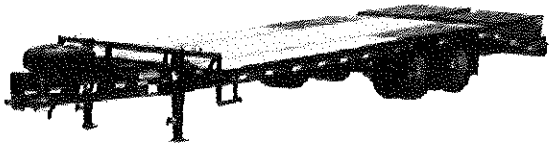
Sales Info:
Wright Way Trailers
Inc
Phone : 3193934544
Fax : 3193936410

Customer Info:
CITY OF ALAMOSA
Phone: 319 558 8335

Low-Pro Pintle with Duals

Quote #211824

- 25 feet
- 3" Pintle Eye - Face-mount (36,000 lb.)
- (2) 15,000# w/215/75R17.5" LR-H Dual T&W Electric / Spring
- 5' Dovetail w/ 2 Flip-over Monster Ramps
- Primer + Black Powder Coat



* actual product may vary from image shown

Options:

1 Side-mount Toolbox 30"x14"

Notes:

Standard Features

- 25,000 lb. G.V.W.R.
- 10,000 lb. x 2 G.A.W.R.
- 3" Pintle Eye Face Mount Coupler
- Safety Chains
- 2 - Drop Leg Jacks (10,000 lb.)
- 2 - Dexter Oil Bath Brake Axles (10,000 lb.)
- Dexter Heavy Duty Spring Suspension
- 8 Dual Wheels, 16" Black, 8 on 6.5" Bolt Pattern
- 8 - 16" 235/80R16 Radial Tires (3,090 lb)
- Rubrail & Stake Pockets
- Electric Breakaway Kit w/ Charger
- DOT Reflective Tape
- Retractable Monster Steps on Both Sides
- Lockable Front Toolbox
- 8' Ramps w/ Holders
- 12" x 19 lb. I-Beam Main Frame
- 3" Channel Crossmembers 16" on Center
- 2 x 6 x 1/8" Square Tubing Outer Deck Frame
- 2" Treated Pine Lumber Deck
- 102" Wide Deck
- DOT Approved Flushmount Lifetime LED Lights
- Amber Side Turn Flashers
- All-Weather Wiring Harness (7-way RV)
- Sand Blasted, Acid Washed, Powder Coated
- Spare Tire & Mount
- TwistGuard™ Standard on 30' and up

Trailer Price:	$25,319.00
Taxes:	$0.00
Fees:	$695.00
Registration:	$0.00
Other:	$0.00

Total Price:$26,014.00

Sale
$ —
$20,000
Trade In $ 8000
$12,000

Patten Equipment

BILL OF SALE

PO Box 25 • 550 North Union Ave. Urbana, IA 52345
Sales: 319-389-1667 or 319-361-0404 Parts & Warranty: 319-350-5301 Fax: 319-443-3049
Website: www.pattenequipment.com Email: trailers360@gmail.com

Date: 4/9/2018 Name: City of Anamosa
Address: 107 South First St Anamosa IA 52205
Phone: 462-6055 (Dan) 558-8335

New 2018 8'x6' Black 26' pipe 24 ex w/ gate	7670.00
Rub rail and stake pockets, Side Step	
VIN#	
1E9BF2622JS230561	
FREIGHT	
TAX	
TRADE	
TOTAL	
NON REFUNDABLE DOWN PAYMENT	
NON REFUNDABLE BALANCE DUE	7670.00

#8227

✓ # 061712
6/4/2018

Salesperson Signature: [signature] Date: 4/9/2018

TERMS AND CONDITIONS

- All returned parts, accessories, & trailers must be within 7 days with receipt. All trailers have a $250.00 minimum restocking fee, must be unused & clean.
- A $30.00 fee and 15% interest will be charged on returned checks. If returned check issue is not settled within 7 days, I give Patten Equipment the right to repossess the item(s), agree to pay any fees for returned check, including any litigation costs, court costs, and attorney fees, plus any cost to repair any damanged item(s) repossessed/returned.
- Used Trailers have no warranty and are bought as is.
- A 3.5% Credit Card Fee will be charged on all credit and debit card transactions.
- All down payments are non refundable.
- All warranty items must be brought to Patten Equipment to get warranty, if not, the customer has to call the manufacturer direct.
- Balance due must be paid in full within 15 days after merchandise has arrived, and is non refundable.
- Any unpaid merchandise that has been here over 15 days after arrival, the down payment will be forfeited and the merchandise will be resold.
- All merchandise must be picked up within 30 days after merchandise arrives or payments will be forfeited and the merchandise will be resold.

Buyer Signature Agreeing to all Terms & Conditions: [signature] Date: 4-9-18

BILL OF SALE FOR PROPERTY TAKEN IN TRADE OR SOLD OUTRIGHT TO PATTEN

City of Anamosa	

Copies: White - Patten Equipment • Yellow - Owner

Lawn mower purchase for Utility dept and Streets.

Currently the Utility Department has 2 lawn mowers. We have a 2022 Bobcat zero turn mower and a 2015 John Deere 1023 mower with a loader with 420 hours. This John Deere mower is a 4-wheel drive tractor style mower. The Utility department no longer has the need for the John Deere with loader. The Utility Department needs another zero-turn mower to complete the mowing in a shorter time frame. After talking to Shane and the Streets Department we are going to give Streets the John Deere 1023 and loader and take one of the Street departments John Deere 1023 mowers that has 1164 hours and trade it in for a new zero turn Bobcat like the one we have. Streets will be getting a better mower with less hours and a loader and the Utility Department will get a new zero-turn to shorten mowing times. This will fulfill the needs of the Utility Dept for a minimum of 5 years before any mower will need replacing.

The Street Dept is also wanting to replace the 2010 Gravely zero turn mower. The current mower has 1755 hours and no trade in value due to age and hours. The Gravely uses engine oil and the hydro's are getting weak. The Gravely mower could be kept as a spare or sold at auction. Whichever the council would prefer.

We have submitted 4 quotes for mowers. Bobcat has the best warranty and the price $600 above the lowest bid and $1912 below the highest bid. We would like to recommend the purchase of a Bobcat mower for each Department. By purchasing these mowers, it will allow us to keep the same parts on the shelf as the other 3 zero turn mowers in the city fleet.

Thanks.

Steve Agnitsch

Utility Superintendent

Shane Brown

Streets Department

Bobcat

Product Quotation

Quotation Number: TLJ-01693
Date: 2023-04-10 10:53:49

Customer Name/Address:	Bobcat Delivering Dealer	ORDERS TO BE PLACED WITH: Contract Holder/Manufacturer
CITY OF ANAMOSA 271153 **Attn: Greg** **107 S Ford St** **319-462-6055** **Anamosa, IA 52205-1841**	**Shannon** **Bobcat of Cedar Rapids, Cedar Rapids, IA** **1925 BLAIRS FERRY ROAD NE** **CEDAR RAPIDS IA 52402-5811** **Phone: (319) 393-2820** **Fax: (319) 393-3517**	**Clark Equipment Company** **dba Bobcat Company** **250 E Beaton Dr** **West Fargo, ND 58078** **Phone: 701-241-8719** **Fax: 855-608-0681** **Contact: Heather Messmer** **Heather.Messmer@doosan.com**

Description	Part No	Qty	Price Ea.	Total
ZT6161SN - ZT6100 Zero Turn Riding Mower	9996013	1	$11,927.16	$11,927.16

Engine:
- Kawasaki FX850V EFI Gas Engine

Deck:
- AirFXTM Cutting System
- Air-Gap Baffles
- XL Grass Discharge Chute
- Front bull-nose designed
- Deep profile
- Adjustable front lips
- Cast Iron Spindle Assemblies

Engine Compartment:
- Rotating rear bumper
- 2 inch hitch receiver

Tires:
- Drive Tires: 24 x 12 - 12 OTR
- Caster Tires: 13 x 6.5 - 6 OTR

Transmission:
- HG ZT-4400 Hydrostatic Transaxles

Operator Platform:
- Instrumentation: Fuel Gauges, Hour meter and PTO
- Throttle and Choke Cables
- 12 V Plug Outlet
- Key Switch
- High Back Full Mechanical Suspension Seat
- Fore/Aft Adjustment
- Seat Belt
- Roll Over Protective Structure (ROPS) meets OSHA 1928.51 & 1928.52
- Meets standard ANSI/OPEI B71.4
- Rotating Foot Plate

Operator Controls:
- Hand Deck Lift Assist
- Adjustable Foot Deck Lift Assist
- Height of Cut Tethered Pin
- Adjustable Control Levers
- Fore/Aft/Up/Down

Warranty:
- 36 months, or 2000 hours whichever occurs first

Total of Items Quoted		**$11,927.16**
Dealer Assembly Charges		**$0.00**
Trade-in	**JOHN DEERE 1LV1023EKFH511136 2023E**	**($7,500.00)**
Quote Total - US dollars		**$4,427.16**

Notes:

JOHN DEERE

Quote Summary

Prepared For:
CITY OF ANAMOSA
104 BROADWAY PL
ANAMOSA, IA 52205
Business: 319-462-3773

Prepared By:
Philip Rave
Bodensteiner Implement Co.
1047 South Main Street
Monticello, IA 52310
Phone: 319-465-3515
Mobile: 563-920-5673
ravep2@bodimp.com

Quote Id:	29039736
Created On:	13 June 2023
Last Modified On:	14 June 2023
Expiration Date:	20 June 2023

Equipment Summary	**Selling Price**		**Qty**		**Extended**
2023 JOHN DEERE Z920M ZTrak - 1TC920MCCPP120425	$ 11,600.00	X	1	=	$ 11,600.00
Equipment Total					**$ 11,600.00**

Trade In Summary	**Qty**	**Each**	**Extended**
2015 JOHN DEERE 1023E - 1LV1023EKFH511136	1	$ 7,800.00	$ 7,800.00
PayOff			$ 0.00
Total Trade Allowance			$ 7,800.00
Trade In Total			**$ 7,800.00**

Quote Summary	
Equipment Total	$ 11,600.00
Trade In	$ (7,800.00)
Document Fees	$ 0.00
Registration Fees DNR	$ 0.00
SubTotal	$ 3,800.00
Est. Service Agreement Tax	$ 0.00
Total	$ 3,800.00
Down Payment	(0.00)
Rental Applied	(0.00)
Balance Due	**$ 3,800.00**

Salesperson : X _____

Accepted By : X _____

JOHN DEERE

Trade In

Quote Id: 29039736 **Customer:** CITY OF ANAMOSA

Machine Details	**2015 JOHN DEERE 1023E** **SN# 1LV1023EKFH511136**
Description **2015 JOHN DEERE 1023E** **SN# 1LV1023EKFH511136** **Your Trade In Description**	**Net Trade Value** **$ 7,800.00**
Additional Options	
Hour Meter Reading	1169

Retail Purchase Order

6/19/2023
Date

KROMMINGA MOTORS, INC.
1810 S Main St Monticello, Iowa 52310

Phone 319-465-5443 Fax 319-465-4688

City of Anamosa — Steve 319-558-8335
Customer's Name — Phone No.

Street Address — Anamosa (Town) — County — IA (State) — 52205 (Zip)

Qty	Model	Description	Serial No.	Cash Price
		Bids on new Hustler Zero Turn Mowers		
1	941856	Hustler X-One zero turn mower		$ 14,382.00
		27 HP Kawasaki Engine, 60" Deck	City Municipal Discount	$ (4,027.00)
		Twin Lever Control	Cash Price of Mower	$10,355.00
1	942813	Hustler Super Z zero turn mower		$ 17,236.00
		27 HP Kawasaki Engine, 60" Deck	City Municipal Discount	$ (4,826.00)
		Twin Lever Control	Cash Price of Mower	$ 12,410.00
1	942839	Hustler Super Z zero turn mower		$ 17,579.00
		35 HP Kawasaki Engine, 60" Deck	City Municipal Discount	$ (4,922.00)
		Twin Lever Control	Cash Price of Mower	$ 12,657.00

3055

5110

~~5357~~

SAFETY FRAME (ROPS) RECOMMENDED ON TRACTORS. PURCHASER MUST CHECK BOX IF ROPS REJECTED. ☐

This item(s) described on this invoice are being purchased by the undersigned Iowa resident who is doing business as a ___ Farmer ___ Wholesaler ___ Retailer (Permit #_____) as a tax exempt purchase for the following reason: ___ Resale ___ Qualifying Farm Machinery ___Qualifying replacement parts. Under penalty of perjury I swear that the information on this invoice is true and correct.

Signature *Date*

BILL OF SALE FOR PROPERTY TAKEN IN TRADE

For value received I/we hereby bargain and sell, grant and deliver to Dealer named above.

Qty.	Description and Serial No.	Amount		
1	2015 John Deere 1023E Compact Tractor	$ 7,300.00	Cash Price	$
	with 60 " Mower Deck, 1,169 hrs. Hydro Transmission		Trade In	$ 7,300.00
	Yanmar 3 cylinder Diesel Engine		Balance	$
	serial # 1LV1023EKFH511136		Sales Tax	
			Total	$
			Down Payment	
			BALANCE DUE	$

I/We hereby certify that there is no lien, claim, debt mortgage, or encumbrance of any kind, nature or description against the property listed above now existing, of record or otherwise, and that same is free and clear and is my/our sole and absolute property.

PURCHASER'S REQUEST TO PROVIDE FINANCING
(To be completed only if financing provided by Krommingа Motors, Inc.)

The purchaser understands that the above Retail Purchase Order is on a cash price basis. The dealer will, however attempt to provide financing for such purchase if purchaser so requests, pursuant to a separate finance contract on mutually acceptable terms, subject to normal credit qualifications. THE PURCHASER'S SIGNATURE AT THE BOTTOM OF THIS PARAGRAPH ACKNOWLEDGES THAT THE PURCHASER HAS REQUESTED THE DEALER TO PROVIDE SUCH FINANCING.

Signature of Purchaser

Purchaser has read all of the provisions of this Retail Purchase Order, including the reference to warranty, as printed on forms 220191 for Tractors and Equipment and 220084 for Consumer Products. Purchaser agrees that all such provisions are part of this Order and that this order supersedes any prior agreement and is the complete and exclusive agreement on the subject matters covered by this Order. Purchaser's signature hereto acknowledges that he/she has received and read a copy of the applicable warranty. THIS ORDER SHALL NOT BECOME BINDING UNTIL ACCEPTED BY THE DEALER'S AUTHORIZED REPRESENTATIVE, IN THE CASE OF A TIME SALE, THE DEALER SHALL NOT BE OBLIGATED TO SELL UNTIL A FINANCE SOURCE AGREES TO PURCHASE A RETAIL INSTALLMENT CONTRACT BETWEEN THE PURCHASER AND THE DEALER BASED ON THIS ORDER. Purchaser certifies he/she is of majority age and has received a true copy of this Order.

Chuck Schreiber 6-19-23

Purchaser's Signature / Date *Authorized Dealer Representative / Date*

Retail Purchase Order

6/19/2023
Date

KROMMINGA MOTORS, INC.
1810 S Main St Monticello, Iowa 52310

Phone 319-465-5443 Fax 319-465-4688

City of Anamosa — Customer's Name
Steve 319-558-8335 — Phone No.

Street Address | Anamosa — Town | County | IA — State | 52205 — Zip

Qty	Model	Description	Serial No.	Cash Price
		Bids on New Country Clipper Zero Turn		
		Mowers		
1	25560KAT	Country Clipper Charger Series zero turn		$ 13,999.00
		lawn mower. 25.5 HP Kawasaki Engine	City Municipal Discount	$ (2,800.00)
		60" Deck, Twin Stick Control	Cash Price of Mower	$11,199.00
1	3560KAT	Country Clipper Boss XL Series zero turn		$ 17,049.00
		lawn mower. 35 HP Kawasaki Engine	City Municipal Discount	$ (3,410.00)
		60" Deck, Twin Stick Control	Cash Price on Mower	$ 13,639.00

3899

6339

SAFETY FRAME (ROPS) RECOMMENDED ON TRACTORS. PURCHASER MUST CHECK BOX IF ROPS REJECTED. ☐

This item(s) described on this invoice are being purchased by the undersigned Iowa resident who is doing business as a ___ Farmer ___ Wholesaler ___ Retailer (Permit #_____) as a tax exempt purchase for the following reason: ___ Resale ___ Qualifying Farm Machinery ___Qualifying replacement parts. *Under penalty of perjury I swear that the information on this invoice is true and correct.*

Signature *Date*

BILL OF SALE FOR PROPERTY TAKEN IN TRADE

For value received I/we hereby bargain and sell, grant and deliver to Dealer named above.

Qty.	Description and Serial No.	Amount		
1	2015 John Deere 1023E Compact Tractor	$ 7,300.00	Cash Price	$
	with 60 " Mower Deck, 1,169 hrs. Hydro Transmission		Trade In	$ 7,300.00
	Yanmar 3 cylinder Diesel Engine		Balance	$
	serial # 1LV1023EKFH511136		Sales Tax	
			Total	$
			Down Payment	
			BALANCE DUE	$

I/We hereby certify that there is no lien, claim, debt mortgage, or encumbrance of any kind, nature or description against the property listed above now existing, of record or otherwise, and that same is free and clear and is my/our sole and absolute property.

PURCHASER'S REQUEST TO PROVIDE FINANCING
(To be completed only if financing provided by Kromminga Motors, Inc.)

The purchaser understands that the above Retail Purchase Order is on a cash price basis. The dealer will, however attempt to provide financing for such purchase if purchaser so requests, pursuant to a separate finance contract on mutually acceptable terms, subject to normal credit qualifications. THE PURCHASER'S SIGNATURE AT THE BOTTOM OF THIS PARAGRAPH ACKNOWLEDGES THAT THE PURCHASER HAS REQUESTED THE DEALER TO PROVIDE SUCH FINANCING.

Signature of Purchaser

Purchaser has read all of the provisions of this Retail Purchase Order, including the reference to warranty, as printed on forms 220191 for Tractors and Equipment and 220084 for Consumer Products. Purchaser agrees that all such provisions are part of this Order and that this order supersedes any prior agreement and is the complete and exclusive agreement on the subject matters covered by this Order. Purchaser's signature hereto acknowledges that he/she has received and read a copy of the applicable warranty. THIS ORDER SHALL NOT BECOME BINDING UNTIL ACCEPTED BY THE DEALER'S AUTHORIZED REPRESENTATIVE, IN THE CASE OF A TIME SALE, THE DEALER SHALL NOT BE OBLIGATED TO SELL UNTIL A FINANCE SOURCE AGREES TO PURCHASE A RETAIL INSTALLMENT CONTRACT BETWEEN THE PURCHASER AND THE DEALER BASED ON THIS ORDER. Purchaser certifies he/she is of majority age and has received a true copy of this Order.

Chuck Schneider 6-19-23

Purchaser's Signature / Date *Authorized Dealer Representative / Date*

6. Proposed landscaping plan indicating plant types, number, and timing for installation.

7. Existing zoning classifications of the property.

8. Existing and proposed type and number of parking spaces on the property.

9. A photometric plan showing proposed light levels for development measured in foot candles. This should, at minimum, show light intensity at the property line, brightest point, and average light intensity.

167.13 RESIDENTIAL DWELLING STANDARDS. All dwelling units and accessory buildings as defined under Chapter 165 shall meet the following minimum standards:

1. The minimum dwelling width shall be 22 feet at the exterior dimension.

2. All dwelling units, including attached garages, shall be placed on a permanent frost-free perimeter foundation. A permanent frost-free perimeter foundation is one having footings below the frost line and a continuous foundation wall of concrete, concrete block, or stone. The permanent foundation for a manufactured home, however, may be a pier footing foundation system designed and constructed to be compatible with the structure and the conditions of the site; provided, however: (i) the footings for the pier foundations are placed below the frost line; and (ii) the manufactured home is skirted with construction materials giving the appearance of a poured concrete, cement block or stone foundation to insure visual compatibility with surrounding residential structures. Ground level additions to a dwelling unit that are served by the dwelling unit's principal heating source require permanent frost-free perimeter foundations. Other enclosed additions to dwelling units may have a pier footing foundation system provided: (i) the footings for the pier foundations are placed below the frost line; and (ii) no pier footing foundations are placed in the front yard of the lot upon which the dwelling is situated. A permanent foundation shall not include footings for steps, porches, decks, or stoops.

3. All dwelling units shall provide for a minimum of 800 square feet of ground floor space.

4. Have for the exterior wall covering either:

A. Wood or masonry finish or its appearance, or;

B. Vertical or horizontal grooved siding or lap siding or its appearance.

C. All skirting covering pier footings or converted mobile homes shall be visually compatible with adjacent residential structures.

5. No structures within residential districts shall use non-colored sheet metal, corrugated, or flat metal to cover its exterior walls or roof. In addition, the use of vertical colored metal siding is prohibited. Use of standing seam colored metal roofing is permitted.

167.14 BUILDING STANDARDS.

1. ~~The following building standards shall apply to the C-1 District:~~

~~A. No structures as defined under Chapter 165 within this district shall use non-colored sheet metal, corrugated, or flat metal to cover its exterior walls or roof. In addition, the use of vertical colored metal siding is prohibited.~~

~~2.~~ 1. The following building standards shall apply to the C-2, M-1, and M-2 Zoning Districts:

A. No structures as defined under Chapter 165 within this district shall use non-colored sheet metal, corrugated, or flat metal to cover its exterior walls or roof.

167.15 PURPOSE OF LANDSCAPE PLAN REVIEW. The regulations covering landscape plan review are intended to provide uniform standards for the development and maintenance of landscaping on private property and public right-of-way. Landscaping improves livability of residential neighborhoods; it enhances the appearance and customer attraction of commercial area; it increases property values; it improves the compatibility of adjacent uses; it screens undesirable views; and it can reduce air and noise pollution. The intent of these regulations is to achieve a reasonable balance between the right of individuals to develop and maintain their property in a manner they prefer and the right of the City residents to live, work, shop, and recreate in pleasant and attractive surroundings. The results of this effort will be the strengthening of the economic stability of the City's business, cultural, and residential areas. The intent of these regulations is to work with new construction and new subdivisions. The intent is to also regulate plantings within the public right-of-way. In addition, the intent of this chapter is to prevent plantings which would jeopardize the safety of vehicles, property, and, most importantly, people. It is not the intent of this chapter to regulate existing developed private property except in areas as stated within this chapter.

167.16 LANDSCAPE PLANS REQUIRED. The landscape plan requirements of the Tree and Landscaping Regulations Ordinance are as follows:

1. A preliminary landscape plan shall be submitted in support of all preliminary plans. A final landscape plan shall be submitted in support of all final plans. These landscape plans shall be designed and signed by a registered landscape architect or a landscape professional who has been in the landscape business a minimum of three years. Said plan must be approved by the Zoning/Building Administrator.

2. New residential subdivisions will show requirements for all lots to have approved trees planted within one year after structure is completed. As a minimum, for each lot an approved tree must be planted in the front or front side yard and rear yard or rear side yard. Said requirement shall be part of the subdivision covenants.

3. A landscape plan is required for all residential except single and two-family dwellings, commercial, professional office and industrial developments, redevelopments, additions, or changes in usage. When same is adjacent to a residentially zoned area, a landscape plan showing a landscape buffer between the different zoned areas is required. All preliminary and final landscape plans shall have the following information:

A. North point and scale.

B. Topographic information and final grading adequate to identify and properly specify planting for areas needing slope protection.

C. The location, size, and surface of materials of all structures and parking areas.

D. The location, size, and type of all above-ground and underground utilities and structures with proper notation where appropriate, as to any safety hazards to avoid during landscape installation.

RESOLUTION NO. 2023-46

RESOLUTION SETTING THE DATE FOR THE PUBLIC HEARING TO DISCUSS THE PLANNING & ZONING COMMISSION'S RECOMMENDATIONS TO AMEND ZONING ORDINANCE 167.14 BUILDING STANDARDS, REMOVING THE PROHIBITION OF VERTICAL, COLORED METAL SIDING IN THE C-1 CENTRAL COMMERCIAL DISTRICT.

WHEREAS, the Planning & Zoning Commission held a Public Hearing on June 22, 2023 to discuss the proposed amendment to Ordinance 167.14; and

WHEREAS, the Planning & Zoning Commission voted in favor of making recommendation to the City Council that the proposed amendment of Ordinance 167.12 be considered; and

WHEREAS, a Public Hearing and three (3) ordinance readings are required to adopt the proposed amendment to Ordinance 167.12; and

WHEREAS, a public notice of said public hearing is required to be published in the designated local paper no less than seven and no more than 20 days prior to the public hearing;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ANAMOSA, IOWA, that the City of Anamosa City Council does hereby set July 24, 2023 at 6:00 p.m. as the date and time for the public hearing to be held in the Anamosa Library and Learning Center in Anamosa, Iowa

Councilmember _____ introduced this Resolution and moved for its adoption.
Councilmember _____ seconded the motion to adopt.
The roll was called and the following indicates the result of the vote.

COUNCIL MEMBER	AYES	NAYS	ABSENT	ABSTAIN
CRUMP				
SMITH				
TUETKEN				
ZUMBACH				
STOUT				
GOMBERT				

PASSED AND APPROVED this 10th day of July, 2023.

_____
ROD SMITH, MAYOR

ATTEST:

_____
JEREMIAH HOYT, CITY ADMINISTRATOR

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF PAGES

TO OWNER City of Anamosa
107 S. Ford St.
Anamosa, IA 52205

PROJECT: Renovation to Anamosa Police Station

APPLICATION NO: 8

Distribution to:
- OWNER
- ARCHITECT
- CONTRACTOR

PERIOD TO: 6/30/2023

FROM CONTRACTOR:
Dave's Complete Construction
PO Box 213
Delhi, IA 52223

VIA ARCHITECT: Martin Gardner Architecture, P.C.
700 11th Street, Suite 200
Marion, IA 52302

PROJECT NOS: 191102

CONTRACT FOR:

CONTRACT DATE 3/22/2022

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM		$ 874,537.00
2. Net change by Change Orders		$ 14,091.26
3. CONTRACT SUM TO DATE (Line 1 ± 2)		$ 888,628.26
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)		$ 858,788.26
5. RETAINAGE:		
a. 5 % of Completed Work (Column D + E on G703)	$ $42,939.41	
b. 5 % of Stored Material (Column F on G703)	$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)		$ $42,939.41
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)		$ $815,848.85
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)		$ $717,020.34
8. CURRENT PAYMENT DUE		$ 98,828.51
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)		$ 72,779.41

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	$13,428.67	($1,263.00)
Total approved this Month	$1,925.59	
TOTALS	$15,354.26	($1,263.00)
NET CHANGES by Change Order	$14,091.26	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR:

By: *Dave Fink* Date: 6/30/2023

State of: Iowa County of: Delaware
Subscribed and sworn to before me this 30th day of June, 2023
Notary Public: Tiffany Nelson *Tiffany Nelson*
My Commission expires: 7/5/2024

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED . . . . . $ 98,828.51

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:
By: Date: 07/05/2023

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee.

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing
Contractor's signed certification is attached.
In tabulations below, amounts are stated to the nearest dollar.
Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 8
APPLICATION DATE: 6/ 30/ 2023
PERIOD TO:
ARCHITECT'S PROJECT NO: 191102

A	B	C	D	E	F	G	H	I	J
ITEM NO.	**DESCRIPTION OF WORK**	**SCHEDULED VALUE**	**WORK COMPLETED**		**MATERIALS PRESENTLY STORED** (NOT IN D OR E)	**TOTAL COMPLETED AND STORED TO DATE** (D+E+F)	**%** (G ÷ C)	**BALANCE TO FINISH** (C - G)	**RETAINAGE** (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	**THIS PERIOD**					
	General Requirements	$69,470.00	$54,500.00	$4,970.00		$59,470.00	85.61%	$10,000.00	$2,973.50
	Earthwork/ Civil	$62,250.00	$4,222.03	$58,027.97		$62,250.00	100.00%	$0.00	$3,112.50
	Existing Conditions	$21,240.00	$21,240.00			$21,240.00	100.00%	$0.00	$1,062.00
	Concrete/ Masonry	$71,282.00	$66,496.40	$4,785.60		$71,282.00	100.00%	$0.00	$3,564.10
	Metals	$28,470.00	$28,470.00			$28,470.00	100.00%	$0.00	$1,423.50
	Woods, Plastics/ Thermal & Moisture	$62,580.00	$58,786.71	$3,793.29		$62,580.00	100.00%	$0.00	$3,129.00
	Openings	$123,915.00	$114,453.00	$6,500.00		$120,953.00	97.61%	$2,962.00	$6,047.65
	Finishes	$110,421.00	$100,470.00	$9,951.00		$110,421.00	100.00%	$0.00	$5,521.05
	Specialties/ Furnishes	$23,234.00	$17,531.85	$5,702.15		$23,234.00	100.00%	$0.00	$1,161.70
	Mechanical	$163,000.00	$142,122.00	$4,000.00		$146,122.00	89.65%	$16,878.00	$7,306.10
	Electrical	$125,375.00	$125,375.00			$125,375.00	100.00%	$0.00	$6,268.75
	Alternate #1 Exterior Painting	$13,300.00	$7,000.00	$6,300.00		$13,300.00	100.00%	$0.00	$665.00
	Change Order #1	$7,810.00	$7,810.00			$7,810.00	100.00%	$0.00	$390.50
	Change Order #2	$2,668.67	$2,668.67			$2,668.67	100.00%	$0.00	$133.43
	Change Order #3	($1,263.00)	($1,263.00)			($1,263.00)	100.00%	$0.00	($63.15)
	Change Order #4	$2,950.00	$2,950.00			$2,950.00	100.00%	$0.00	$147.50
	Change Order #5	$0.00							
	Change Order #6	$1,925.59	$1,925.59			$1,925.59	100.00%	$0.00	$96.28
	GRAND TOTALS	**$888,628.26**	**$754,758.25**	**$104,030.01**	**$0.00**	**$858,788.26**	**1673%**	**$29,840.00**	**$42,939.41**

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

Please Remit To:
HR Green, Inc.
PO Box 8213
Des Moines, IA 50301-8213
1-800-728-7805

City of Anamosa, IA
1124 N. Williams
Anamosa, IA 52205-1841

June 30, 2023
Project No: 191791
Invoice No: 164463

Invoice Total: $942.00

Project 191791 Anamosa, IA - GIS Services

Email invoices to: Jeremiah.Hoyt@anamosa-ia.org

Water = robert.young@anamosa-ia.org
Wastewater Department=steve.agnitsch@anamosa-ia.org
Streets Department= shane.brown@anamosa-ia.org

Professional Services Through June 23, 2023

Phase 2022 GIS Services Annual Renewal

Task 09 Cemetary Project Phase 3

Professional Personnel

	Hours	Amount	
Field Personnel	7.75	852.50	
Totals	7.75	852.50	
Total Labor			**852.50**

Unit Charges

Technology & Communication Charge	46.50	
Total Unit Charges	**46.50**	**46.50**

Billing Limits	**Current**	**Prior**	**To-Date**
Total Billings	899.00	10,116.50	11,015.50
Limit			59,000.00
Remaining			47,984.50

Total this Task $899.00

Total this Phase $899.00

Phase 2023 GIS Services Annual Renewal

Task 05 Planning & Zoning - Supplemental Service

Professional Personnel

	Hours	Amount	
Senior Technician	.25	41.50	
Totals	.25	41.50	
Total Labor			**41.50**

Unit Charges

Technology & Communication Charge	1.50	
Total Unit Charges	**1.50**	**1.50**

Billing Limits	Current	Prior	To-Date
Total Billings	43.00	0.00	43.00
Limit			2,000.00
Remaining			1,957.00

Total this Task	**$43.00**
Total this Phase	**$43.00**
Total this Invoice	**$942.00**

SNYDER & ASSOCIATES

IOWA | MISSOURI | NEBRASKA | SOUTH DAKOTA | WISCONSIN

INVOICE FOR PROFESSIONAL SERVICES

June 26, 2023

City of Anamosa
107 South Ford Street
Anamosa, IA 52205

Invoice No: 120.0620.08 - 22

Project **120.0620.08** **US 151 Grade Separation and Roundabout**

Professional Services through May 31, 2023

Basic Services
Lump Sum Fees

Total Lump Sum Fees	439,700.00			
Percent Complete	64.50	Total Earned	283,606.50	
		Previous Fee Billing	283,606.50	
		Current Fee Billing	0.00	
		Total Lump Sum Fees		**0.00**

	Total	Prior	Current
Billings to Date	**283,606.50**	**283,606.50**	**0.00**

Construction Services
Lump Sum Fees

Total Lump Sum Fees	260,300.00			
Percent Complete	64.00	Total Earned	166,592.00	
		Previous Fee Billing	158,783.00	
		Current Fee Billing	7,809.00	
		Total Lump Sum Fees		**7,809.00**

	Total	Prior	Current
Billings to Date	**166,592.00**	**158,783.00**	**7,809.00**

Amount Due this Invoice **$7,809.00**

	Total	Prior	Current
Billings to Date	**450,198.50**	**442,389.50**	**7,809.00**

Thank you. We appreciate the opportunity to serve you.

Accounts Receivable Inquiry: ar@snyder-associates.com

Project Manager: Lindsay Beaman

REMIT TO: **SNYDER & ASSOCIATES, INC.**
Mailing: PO Box 1159 | Ankeny, IA 50021
Physical: 2727 SW Snyder Blvd. | Ankeny IA 50023

p: 888-964-2020 | f: 515-964-7938
Federal E.I.N. 42-1379015
SNYDER-ASSOCIATES.COM

QUOTE / SALES ORDER FORM

SALES REP.	BANNER FIRE EQUIPMENT, INC		QUOTE DATE:
Kent C			6/20/2023
PHONE:	4289 Industrial Drive, Roxana, IL.62084 888.BAN.FIRE 927 South 4th Street, Chickasha, OK. 73023 800.654.4060		VALID UNTIL:
			7/20/2023
E-MAIL:			CONTACT:
	DEPT:	Anamosa Fire Department	Jeff Swisher
	ADDRESS:	701 E. 3rd St.	
SHIP VIA:		Anamosa, IA 52205	
	SHIP TO:		PHONE:
PARTIAL:	ADDRESS:		319-361-8596
COMPLETE:			FAX:
EMAIL ADDRESS:		jswisher5302@gmail.com	
PURCHASE ORDER:			

PART NUMBER:	QTY.	DESCRIPTION:	PRICE EACH	TOTAL:
DP17-800-ECO	4.00	Key 1 3/4" Orange Hose ECO-10	$154.00	$616.00
DP17-800-ECO	4.00	Key 1 3/4" RED Hose ECO-10	$154.00	$616.00
DP25-800-ECO	5.00	Key 2 1/2" Yellow Hose ECO-10	$206.00	$1,030.00
3X10LH	1.00	3" X 10' PVC Long Handle Suction Hose	$295.00	$295.00
				$0.00
				$0.00
		Freight to be paid by customer		$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
FREIGHT	*N/A*	*FREIGHT:*		$0.00
TOTAL PRICE	*N/A*	**TOTAL PRICE:**		$2,557.00

SPECIAL NOTES:

Jones County Family Dental

THIS PLAN IS THE PROPERTY OF DOWNING CONSTRUCTION INC.

ANY USE WITHOUT WRITTEN PERMISSION IS STRICTLY PROHIBITED!

STUDIO
ARCHITECTURE || INTERIORS
509 East Scenic Valley Ave.
Indianola, Iowa 50125
p: 515.961.5386
f: 515.961.0468
www.downingconstruct.com
www.downingplanroom.com

RENDERING or PROJECT IMAGE

PROPERTY OF DOWNING STUDIO

ARTISTIC RENDERING ONLY!
ACTUAL SITE CONDITIONS/ PLANTING & PAVING MAY DIFFER.
REFER TO CIVIL DRAWINGS FOR THOSE CONDITIONS.

IMAGE DISCLAIMER

PROJECT DATA

PROJECT DESIGN INFORMATION:

ZONING: CITY OF ANAMOSA
GOVERNING CODES: SEE CODE ANALYSIS SHEET G-102
BUILDING CONSTRUCTION: NEW
TYPE OF CONSTRUCTION: TYPE VB
SPRINKLED: NO
OCCUPANCY CLASSIFICATION: BUSINESS GROUP B (SINGLE OCCUPANCY)
BUILDING SUMMARY: THIS IS A NEW WOOD FRAMED COMMERCIAL BUILDING FOR THE USE OF PROFESSIONAL SERVICES - DENTAL CLINIC

SQUARE FOOTAGES:

Overall Building Area (Including Exterior Walls)	
Name	Area
GROSS BUILDING AREA	5,368 SF

SHEET INDEX

GENERAL

SHEET NO.	SHEET NAME
COVER	CONTACT LIST, SHEET INDEX, & ARTWORK
G-001	GENERAL INFORMATION TYPICAL NOTES & SYMBOL LEGEND
G-101	AREA PLAN(S)
G-102	CODE ANALYSIS PLANS & REVIEW
G-103	TYPICAL CODE/ ACCESSIBILITY DRAWINGS - RESTROOMS
G-104	TYPICAL CODE/ ACCESSIBILITY DRAWINGS
SPX-101	SPECIFICATIONS
SPX-102	SPECIFICATIONS
SPX-103	SPECIFICATIONS
SPX-104	SPECIFICATIONS
SPX-105	SPECIFICATIONS
SPX-106	SPECIFICATIONS
SPX-107	SPECIFICATIONS

ARCHITECTURAL

SHEET NO.	SHEET NAME
A-101	MAIN LEVEL PLAN
A-140	WOOD WALL TYPES LEGEND (IN PLAN VIEW)
A-150	ROOF PLAN
A-200	EXTERIOR ELEVATIONS
A-201	EXTERIOR ELEVATIONS
A-202	COLOR EXTERIOR ELEVATIONS
A-210	ENLARGED EXTERIOR ELEVATIONS
A-300	BUILDING SECTIONS
A-301	BUILDING SECTIONS
A-400	TYPICAL WALL SECTIONS
A-500	DETAILS
A-501	ENLARGED DETAILS
A-502	ENLARGED TAMLYN TRIM DETAILS
A-600	DOOR SCHEDULE, DOOR PANEL, FRAME & TRIM ELEVATIONS WITH DOOR TAG PLAN
A-601	DOOR HARDWARE SCHEDULE
A-701	INTERIOR ELEVATION CALLOUT PLAN/ INTERIOR ELEVATIONS
A-702	INTERIOR ELEVATIONS
A-703	INTERIOR ELEVATIONS
A-704	INTERIOR ELEVATIONS
A-705	INTERIOR ELEVATIONS
A-706	INTERIOR ELEVATIONS
A-801	MAIN LEVEL REFLECTED CEILING PLAN
A-900	3D IMAGES
T-101	TRASH ENCLOSURE PLANS
T-500	GATE DETAILS

INTERIOR DESIGN

SHEET NO.	SHEET NAME
ID-100	INTERIOR DESIGN FINISH SELECTIONS
ID-101	INTERIOR DESIGN FINISH PLAN
ID-111	INTERIOR DESIGN FLOORING PLAN
SD-101	SCHEMATIC DESIGN MAIN LEVEL PLAN

OWNER:
JONES COUNTY FAMILY DENTAL
3201 SE 37TH STREET
ANAMOSA, IOWA 52205
PHONE: N/A
EMAIL: N/A
CONTACT: N/A

GENERAL CONTRACTOR:
DOWNING CONSTRUCTION INC.
509 EAST SCENIC VALLEY AVENUE
INDIANOLA, IOWA 50125
PHONE: 515.961.5386
EMAIL: @DOWNINGCONSTRUCT.COM
CONTACT: P.M. or SUPERINTENDENT

CIVIL:
McCLURE ENGINEERING
1360 NW 121ST STREET
CLIVE, IOWA 50325
PHONE: 515.964.1229
EMAIL: RCORONA@MCCLUREVISION.COM
CONTACT: RICARDO CORONA

MECHANICAL:
KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IOWA 50265
PHONE: 515.724.7938
EMAIL: SHINSHAW@KCLENGINEERING.COM
CONTACT: SCOTT HINSHAW

STRUCTURAL:
TOMETICH ENGINEERING, INC.
10501 BUENA VISTA COURT
URBANDALE, IOWA50322
PHONE: 515.280.8022
EMAIL: LJL@TOMETICHENGINEERING.COM
CONTACT: LUKE LOGAN

ELECTRICAL:
KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IOWA 50265
PHONE: 515.724.7938
EMAIL: MJOHNSON@KCLENGINEERING.COM
CONTACT: MATT JOHNSON

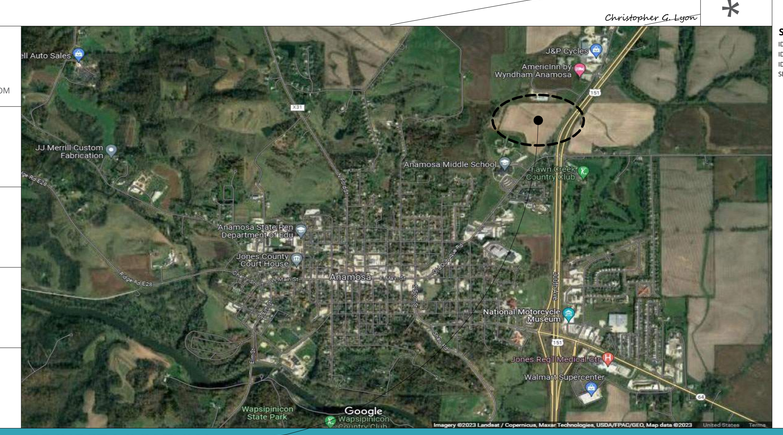
PROJECT DESIGNER:
DOWNING STUDIO
509 EAST SCENIC VALLEY AVENUE
INDIANOLA, IOWA 50125
PHONE: 515.961.5386
EMAIL: CHRISL@DOWNINGCONSTRUCT.COM
CONTACT: CHRISTOPHER LYON

PLUMBING:
KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IOWA 50265
PHONE: 515.724.7938
EMAIL: SHINSHAW@KCLENGINEERING.COM
CONTACT: SCOTT HINSHAW

DENTAL EQUIPMENT:
PATTERSON DENTAL
955 SE 28TH ST
GRIMES, IOWA 50111
PHONE: 515.669.4667
EMAIL: JASON.HELKENN@PATTERSONDENTAL.COM
CONTACT: JASON HELKENN

OTHER/ SPECIALTY:
NAME OF BUSINESS
ADDRESS LINE 1
ADDRESS LINE 2
PHONE:
EMAIL:
CONTACT:

Christopher G. Lyon



PROJECT LOCATION

N

Jones County Family Dental
3201 SE 37th Street
Anamosa, Iowa 52205

BID SET - NOT FOR CONSTRUCTION

DELIVER | COMMIT | DEVELOP | DISCOVER/ ANALYZE

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
--/--/----
--/--/----
--/--/----

PLAN NO. = **90-154**

DWG. LIST

CONTACT LIST, SHEET INDEX, & ARTWORK

SHEET NO.

COVER

OTHER IMAGES OR PROJECT DATA | PROJECT TEAM | VICINITY MAP

REVISION SUMMARY

LIGHTING NOTE:

- THE ELECTRICIAN IS TO VERIFY ALL LIGHT LEVELS, EXIT LIGHTING, AND EMERGENCY EGRESS LIGHTING AS REQUIRED BY LOCAL CODE IN EFFECT AT THE TIME OF CONSTRUCTION.

CODE NOTES:

- PROVIDE/ INSTALL A "UFER" GROUND BAR AT ELECTRICAL PANEL.
  - COORDINATE WITH ELECTRICIAN FOR FINAL LOCATION OF ELECTRICAL PANEL.
- **ALL LIGHT FIXTURES** ARE TO BE **LED LIGHTING** TO MEET INTERNATIONAL ENERGY CONSERVATION CODE REQUIREMENTS.
- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AS REQUIRED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES. SMOKE DETECTORS SHALL BE DIRECT WIRED, 110 VOLT INTERCONNECTED WITH A BATTERY BACKUP.

GENERAL NOTES

USE OF CONSTRUCTION DOCUMENTS

DRAWINGS SHALL NOT BE REPRODUCED WITHOUT THE EXPRESSED CONSENT, EITHER VERBAL OR WRITTEN, OF DOWNING.

DO NOT SCALE DRAWINGS. ONLY WRITTEN DIMENSIONS OR NOTES SHALL BE USED. CONTACT DOWNING IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.

DIMENSION ARE AS FOLLOWS (UNLESS NOTED OTHERWISE)
- FACE OF SHEATHING AT EXTERIOR PERIMETER
  - SHEATHING IS TO ALINE WITH "BUILDING LINE" OF PROJECT & "INSET" EXTERIOR WALL FRAMING ACCORDINGLY.
- FACE OF STUDS AT INTERIOR WALLS
- TO CENTER LINE OF THE FOLLOWING:
  - COLUMNS, PARTY WALLS, WINDOWS, AND DOORS

GENERAL CONSTRUCTION STANDARDS

DO NOT ALLOW EXTERIOR SHEATHING TO BE IN DIRECT CONTACT WITH CONCRETE SURFACES.

HOLD ALL WOOD TRIM A MINIMUM OF 1/4 INCH ABOVE CONTACT WITH HORIZONTAL CONCRETE SURFACES.

ALL PLUMBING SUPPLY LINES IN EXTERIOR WALLS TO RECEIVE FULL INSULATION.

PROVIDE MOISTURE RESISTANT (M.R.) GYPSUM WALL AND/OR CEILING BOARD IN ALL "WET CONDITION" TYPE ROOMS; SIMILAR TO, BUT NOT LIMITED TO: RESTROOMS/ BATHROOMS/ SHOWER ROOMS/ JANITORIAL, ETC.

MISC. DEFINITIONS

"+/-" MEANS THE DIMENSION IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS

"MAXIMUM" OR "MAX" MEANS THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT APPROVAL OF DOWNING.

"MINIMUM" OR "MIN" MEANS THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION LESS THAN THAT SHOWN WITHOUT APPROVAL OF DOWNING.

"TYPICAL" OR "TYP" MEANS THAT THE CONDITION OR DIMENSION IS THE SAME FOR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.

ACCESSIBILITY CONSTRUCTION STANDARDS

ANY AND ALL REFERENCES TO 34" COUNTERTOP HEIGHT APPLIES TO EITHER THE HEIGHT OF THE COUNTERTOP, OR IF A SINK EXISTS IN THE COUNTERTOP, TO THE TOP OF THE RIM OF THE SINK; WHICHEVER IS THE HIGHEST POINT. THEREFORE, THE INSTALLATION HEIGHT OF THE COUNTERTOP MAY VARY FROM LOCATION TO LOCATION; AS DIFFERENT SINKS MAY HAVE DIFFERENT RIM DEPTHS, ALSO SOME SINK MOUNT ON THE UNDER SIDE OF THE COUNTERTOP. THEREFORE, THE ACTUAL SINK MODEL SHOULD BE DETERMINED FOR EACH ADA LOCATION BEFORE THE CONSTRUCTION OF THE CASEWORK BEGINS, AND ADJUSTMENTS MADE ACCORDINGLY.

SERVICE SINKS REQUIREMENTS

MOP SINKS (SERVICE SINKS) ARE TO BE PROVIDED PER THE "IBC".

-WHEN MOP SINKS ARE LOCATED IN A CORNER, PROVIDE A 4'-0" TALL "FRP" 3'-0" EACH WAY OF THE INSIDE CORNER.

-WHEN MOP SINKS ARE INSTALLED IN A RECESSED (NICHE), INSTALL FRP ON ALL (3) WALLS UP TO 4'-0" HEIGHT.

-IF THE MOP SINK IS INSTALLED AGAINST A STRAIGHT WALL, INSTALL A 4'-0"(W)x4'-0"(H) CENTERED ON THE MOP SINK.

APPLIANCES NOTE

ALL APPLIANCES SHOWN WITHIN THESE CONSTRUCTION DOCUMENTS ARE TO BE FURNISHED BY OUR CLIENT(S). UNLESS OTHERWISE DETERMINED DURING OUR DOWNING/ CLIENT PAGE FLIP MEETING. THEREFORE THEY ARE NOT INCLUDED IN ANY BUDGET PRICING WE PROVIDE. THESE APPLIANCES INCLUDE, BUT ARE NOT LIMITED TO: DISHWASHERS, MICROWAVES, REFRIGERATOR'S, WASHERS, DRYERS, TELEVISIONS, COMPUTERS/ I.T. EQUIPMENT, AND A.V. EQUIPMENT.

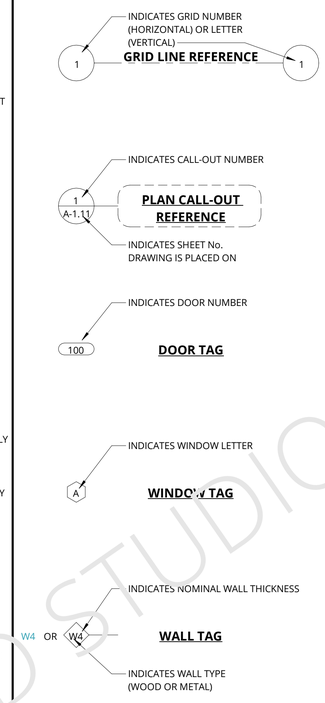
NOTE THAT APPLIANCES IN COMMERCIAL PROJECTS WILL NEED TO CONFORM TO ADA STANDARDS WHEN REQUIRED. EQUIPMENT LIKE STACKED WASHER & DRYERS, MICROWAVES AND UNDERCOUNTER DISHWASHERS OR REFRIGERATORS HAVE A SET OF STANDARDS TO ADHERE TO. DOWNING WILL HELP EDUCATE OUR CLIENTS AS NEEDED. HOWEVER, IF THESE ITEMS ARE PURCHASED WITHOUT VERIFYING THE LOCAL CODES. THEY MAY NOT BE ALLOWED TO BE INSTALLED BY THE LOCAL JURISDICTION, AND POSSIBLY PREVENT A CERTIFICATE OF OCCUPANCY FROM BEING ISSUED.

SPRAY FOAM NOTE

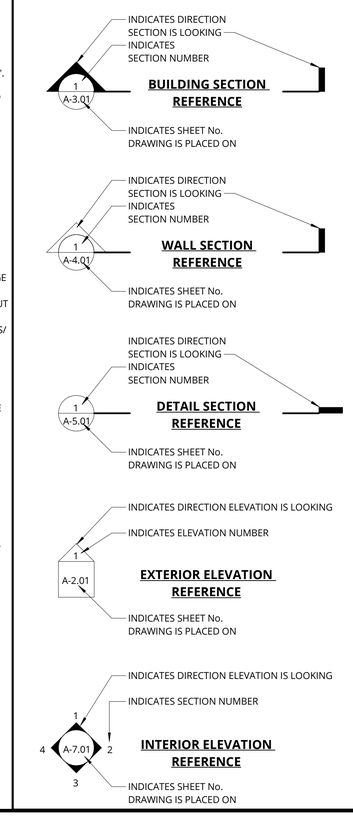
WHEN SPRAY FOAM IS EXPOSED, PROVIDE INTUMESCENT PAINT TO MEET IBC & IFC REQUIREMENTS. OR IF A "WILD-RETURN" HVAC SYSTEM IS INSTALLED.

SYMBOLS LEGEND

PLAN REFERENCES



BUILDING SECTION & ELEVATION REFERENCES



ARCHITECTURAL ABBREVIATIONS

ABBR.	DESCRIPTION
A	
ABBR.	ABBREVIATION
A.F.F.	ABOVE FINISHED FLOOR
ACT.	ACCOUSTICAL CEILING TILE
ADD.	ADDENDUM
ADDN.	ADDITION
ALUM.	ALUMINUM
ALT.	ALTERNATE
APT.	APARTMENT
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS
&	AND
@	AT
B	
B	BASE (CABINET)
BSMT.	BASEMENT
BATH	BATHROOM
BM.	BEAM
BRG.	BEARING
B.R.	BEDROOM
B.M.	BENCHMARK
B/T	BETWEEN
BIT.	BITUMINOUS
BLK.	BLOCK
BLKG.	BLOCKING
BRD.	BOARD
B.O.	BOTTOM OF
B.O.C.	BOTTOM OF CURB
B.W.	BOTH WAYS
BR.	BRICK
C	
CAB.	CABINET
CPT.	CARPET
C.W.	CASEWORK
CSMT.	CASEMENT
C.I.	CAST IRON
C.B.	CATCH BASIN
CER.	CERAMIC
C.T.	CERAMIC TILE
CLG.	CEILING
CEM.	CEMENT
C.O.	CLEANOUT
CLO.	CLOSET
CP.	CLOSET POLE
COL.	COLUMN
CONC.	CONCRETE
C.B.	CONCRETE BLOCK
COND.	CONDITION
CONST.	CONSTRUCTION
C.D.	CONSTRUCTION DOCUMENTS
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORR.	CORRIDOR
C.J.	CONTROL JOINT
CSK.	COUNTERSINK
D	
D.D.	DESIGN DEVELOPMENT
DET.	DETAIL
DIM.	DIMENSION
DR.	DINING ROOM
DISP.	DISPOSAL
DR.	DOOR
DBL.	DOUBLE
DN	DOWN
D.S.	DOWNSPOUT
DB.	DRAWER BASE (CABINET)
DWG.	DRAWINGS
D.F.	DRINKING FOUNTAIN
E	
EA.	EACH
E.W.	EACH WAY
ELEC.	ELECTRICAL
EL.	ELEVATION
ELEV.	ELEVATOR
EM.	EMERGENCY (LIGHTING)
ENGR.	ENGINEER
ENT.	ENTRANCE
EQUIP.	EQUIPMENT
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION OR EXPOSED
EX.	EXIT
EXT.	EXTERIOR
F	
FL.	FLOOR
F.D.	FLOOR DRAIN
FIN.	FINISH
F.F.	FINISHED FLOOR
F.E.	FIRE EXTINGUISHER
FIXT.	FIXTURE
FTG.	FOOTING
FR.	FRAME
FUR.	FURRING

ABBR.	DESCRIPTION
G	
G.I.	GALVANIZED IRON
GAL.	GALVANIZED
GA.	GAUGE
GEN.	GENERAL
GL.	GLASS OR GLAZING
GYP.	GYPSUM
H	
HD.	HARD
HDW.	HARDWARE
HDR.	HEADER
HTR.	HEATER
HT.	HEIGHT
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIBB
H.W.	HOT WATER
I	
INST.	INSTRUMENT
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INTER.	INTERMEDIATE
INV.	INVERT
J	
JAN.	JANITOR
JT.	JOINT
JST.	JOIST
JSTS.	JOISTS
K	
KIT.	KITCHEN
L	
L.P.	LAMINATED PLASTIC
LAV.	LAVATORY
LT.	LIGHT
L.W.	LIGHT WEIGHT
LIN.	LINEN
LINO.	LINOLEUM
L.V.T.	LUXURY VINYL TILE
L.R.	LIVING ROOM
M	
MFR.	MANUFACTURER
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
M.C.	MEDICINE CABINET
MET.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MLDG.	MOLDING
MTD.	MOUNTED
N	
N.C.	NO CHANGE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NOM.	NOMINAL
NO.	NUMBER
O	
OBS.	OBSCURE
O.C.	ON CENTER
OPNG.	OPENING
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD
OHGD.	OVERHEAD GARAGE DOOR
OVD.	OVERHEAD DOOR
P	
PT.	PAINT
PNL.	PANEL
PR.	PAIR
PTN.	PARTITION
P.A.R.	PATCH AS REQUIRED
PLAS.	PLASTER
PL.	PLATE
POL.	POLISHED
Q	
O.T.	QUARRY TILE

ABBR.	DESCRIPTION
R	
R.	RADIUS OR RISER
R.C.	RAIN CHUTE
REF.	REFRIGERATOR
REG.	REGISTER
REQ.	REQUIRED
RET.	RETAINING
REVS.	REVISIONS
R.D.	ROOF DRAIN
RM.	ROOM
R.S.	ROUGH SAWN
RUB.	RUBBER
S	
S.D.	SCHEMATIC DESIGN
S.F.	SANDFLOAT FINISH
SECT.	SECTION
SHT.	SHEET
S.V.	SHEET VINYL
SH.	SHELF OR SHELVES
SIM.	SIMILAR
S.B.	SINK BASE (CABINET)
S.C.	SOLID CORE
SPEC.	SPECIFICATIONS
S. BLK.	SPLASH BLOCK
SQ.	SQUARE
S&V	STAIN & VARNISH
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STR.	STRUCTURAL
SUSP.	SUSPENDED
SW.	SWITCH
T	
TUB.	BATHTUB
TEL.	TELEPHONE
T.V.	TELEVISION
TEXT.	TEXTURE
T.P.	TOILET PAPER (HOLDER)
T.O.	TOP OF
T&G	TONGUE AND GROOVE
T.B.	TOWEL BAR
T.B.D.	TO BE DRAWN or DETERMINED
TR.	TREAD
TYP.	TYPICAL
U	
U.N.O.	UNLESS NOTED OTHERWISE
U.H.	UNIT HEATER
UR.	URINAL
V	
VB.	VANITY BASE (CABINET)
VSB.	VANITY SINK BASE (CABINET)
VENT.	VENTILATION
VEST.	VESTIBULE
V.B.	VINYL BASE
V.W.C.	VINYL WALL COVERING
V.C.T.	VINYL CERAMIC TILE
V.T.	VINYL TILE
W	
WH	WALL HUNG (CABINET)
WAINS.	WAINSCOT
W.I.C.	WALK IN CLOSET
W.C.	WATER CLOSET
W.R.	WATER RESISTANT
WDW.	WINDOW
W. GL.	WIRE GLASS
w/o	WITHOUT
WD.	WOOD
W.I.	WROUGHT IRON
X	
Y	
YD.	YARD
Z	

STANDARD CONSTRUCTION DOCUMENTS SHEET NUMBERS & ORDER GUIDE

Discipline Designator — Sheet Type — Sheet Number

AD-100

SHEET No. EXAMPLE

DISCIPLINE SHEET ORDER HIARCHY
US NATIONAL CAD STANDARD FORMAT

DESIGNATOR	NAME
-	COVER
G	GENERAL
H	HAZARDOUS MATERIALS
V	SURVEY/ MAPPING
B	GEOTECHNICAL
C	CIVIL
L	LANDSCAPE
S	STRUCTURAL
A	ARCHITECTURAL
I	INTERIORS
Q	EQUIPMENT
F	FIRE PROTECTION
P	PLUMBING
D	PROCESS
M	MECHANICAL
E	ELECTRICAL
T	TELECOMMUNICATIONS
R	RESOURCES
X	OTHER DISCIPLINES
Z	CONTRACTOR/ SHOP DRAWINGS
O	OPERATIONS

SHEET TYPE ORDER HIARCHY
MODIFIED US NATIONAL CAD STANDARD FORMAT

SHEET TYPE	DESCRIPTION
0	GENERAL: SYMBOL LEGEND,ABBREVIATIONS,GENERAL NOTES
1	PLANS
2	EXTERIOR ELEVATIONS
3	BUILDING SECTIONS
4	STAIR SECTIONS
5	DETAILS
6	SCHEDULES
7	INTERIOR ELEVATIONS
8	REFLECTED CEILING PLANS & FINISH FLOOR PLANS
9	3D IMAGES & DRAWINGS

The information herein is adapted from and meets the US National CAD Standards.

The "Discipline Designator" helps to identify the type of work that is included on the sheets. Since sheets are distributed to the different sub-contractors in the field, it is helpful for the drawings to be organized by discipline.

The "Sheet Type" number takes the drawings of a single discipline and organizes them. Drawings are always organized from most general to most specific or specialized. The hiarchy schedule above shows the US National CAD Standards format for "Sheet Type" order.

The final component of the sheet number is the two-digit sequence number, which is between 01 and 99. The sequence numbers do not have to be sequential so that space may be left within the set for future additions.

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DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
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PLAN NO. = **90-154**

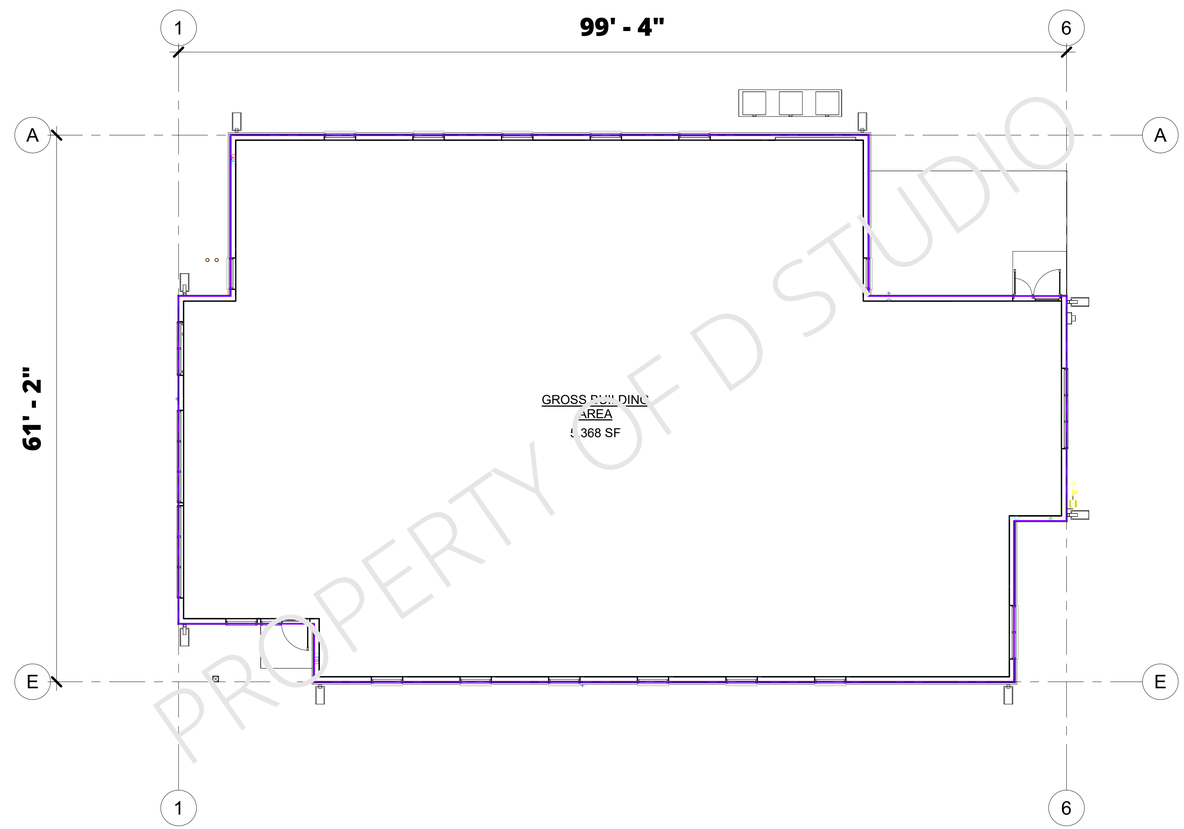
DWG. LIST

GENERAL INFORMATION TYPICAL NOTES & SYMBOL LEGEND

SHEET NO.

G-001

PROPERTY OF DOWNING STUDIO



PROPERTY OF D STUDIO

1 MAIN LEVEL GROSS AREA PLAN

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

Overall Building Area (Including Exterior Walls)	
Name	Area
GROSS BUILDING AREA	5,368 SF

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PLAN NO. = **90-154**

DWG. LIST

AREA PLAN(S)

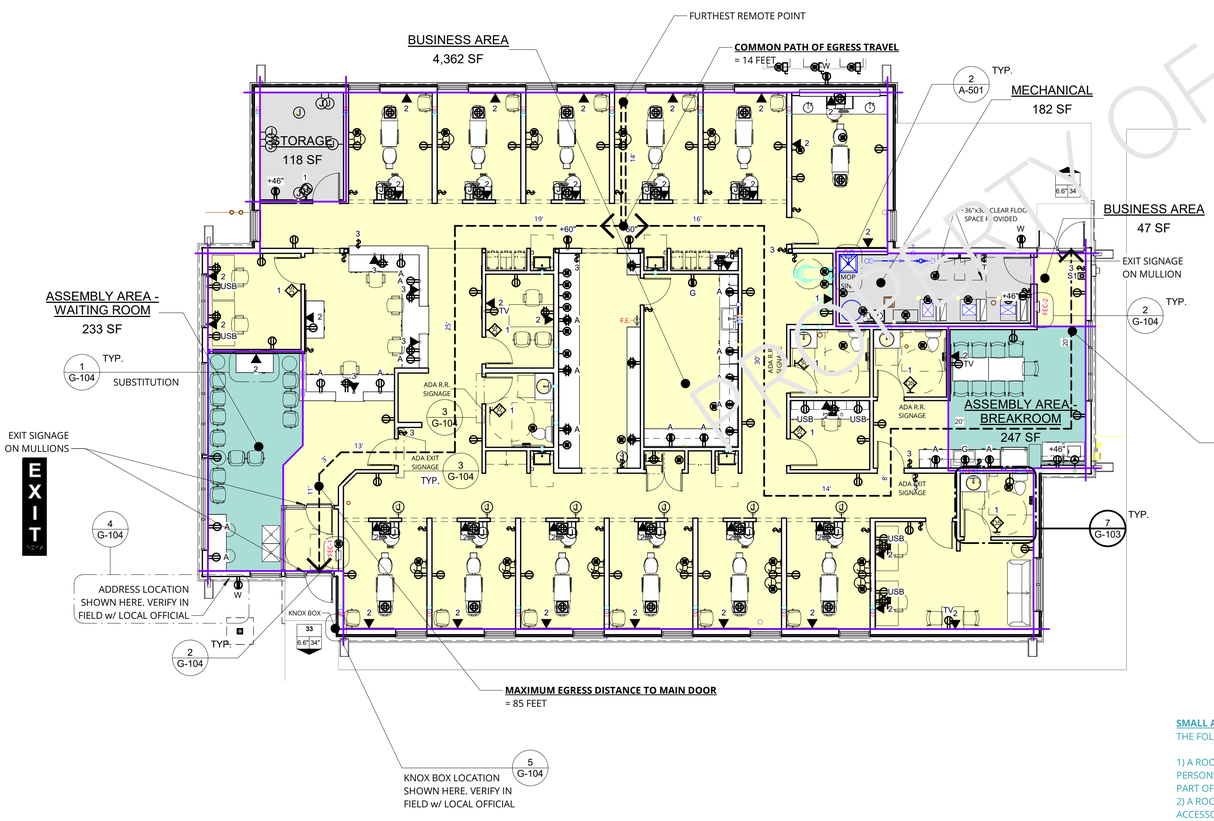
SHEET NO.

G-101

OCCUPANT LOAD SCHEDULE

NAME	NET AREA	OCCUPANT LOAD FACTOR	OCC. LOAD CALC.
ASSEMBLY AREA - BREAKROOM	247 SF	15	16.44
ASSEMBLY AREA - WAITING ROOM	233 SF	15	15.52
BUSINESS AREA	4,362 SF	100	43.62
BUSINESS AREA	47 SF	100	0.47
MECHANICAL	182 SF	300	0.61
STORAGE	118 SF	300	0.39
Grand total	5,189 SF		77.06

TOTAL OCCUPANTS = 78 PERSONS



Scheme 1 Legend

- 15
- 100
- 300

Gross Building Area (Per IBC Definition)	
Name	Area
ASSEMBLY AREA - BREAKROOM	247 SF
ASSEMBLY AREA - WAITING ROOM	233 SF
BUSINESS AREA	4,362 SF
BUSINESS AREA	47 SF
MECHANICAL	182 SF
STORAGE	118 SF
	5,189 SF

SMALL ASSEMBLY SPACES NOTE/ EXCEPTION: (IBC SECTION 303.1.2
THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES:

1) A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS, AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OR AS PART OF THAT OCCUPANCY.
2) A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQ. FT. IN AREA, AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

1 CODE PLAN

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

ANAMOSA

STATE OF IOWA GOVERNING CODES

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2010 EDITION ANSI A117.1 (ACCESSIBILITY CODE)
2021 INTERNATIONAL MECHANICAL CODE
2020 NATIONAL ELECTRICAL CODE
2021 UNIFORM PLUMBING CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE

INCLUDE LOCAL ADMENTMENTS

VERIFIED VIA PHONE: 05/30/2023 PER PENNY

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ARCHITECTURAL CODE REVIEW = "IBC" 2015

DOCUMENTS INTENDED TO BE COVERED BY THIS CODE REVIEW ARE LIMITED TO: "GENERAL & ARCHITECTURAL"
(ALL OTHER PLANS ARE INTENDED TO BE UNDER A SEPARATE REVIEW)

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IOWA DESIGN SERVICES CODE - CHAPTER 544A, REGISTERED ARCHITECTS - SECTION 544A.18, EXCEPTIONS

PERSONS WHO ARE NOT REGISTERED ARCHITECTS MAY PERFORM PLANNING AND DESIGN SERVICES IN CONNECTION WITH THE FOLLOWING:

EXCEPTION (RELEVANT TO PROJECT):
#4 - WAREHOUSES AND COMMERCIAL BUILDINGS NOT MORE THAN ONE STORY IN HEIGHT, AND NOT EXCEEDING TEN THOUSAND SQUARE FEET IN GROSS FLOOR AREA; COMMERCIAL BUILDINGS NOT MORE THAN TWO STORIES IN HEIGHT AND NOT EXCEEDING SIX THOUSAND SQUARE FEET IN GROSS FLOOR AREA. AND LIGHT INDUSTRIAL BUILDINGS.

CLIMATE ZONE = 5A

2012 IECC BUILDING ENVELOPE BASED ON COMcheck

ROOF: ATTIC = R-38
WALLS ABOVE GRADE
WOOD FRAMED WALLS = R-20 REQUIRED
= R-21 PROVIDED
WALLS BELOW GRADE
BELOW GRADE WALLS = R-7.5ci
SLAB ON GRADE FLOORS
UNHEATED SLABS = R-10 FOR 24" BELOW
VERTICAL FENESTRATION
U-FACTOR FIXED: 0.38
U-FACTOR OPERABLE: 0.45
U-FACTOR ENTRANCE DOORS: 0.77
SHGC: 0.40

SEE COVER PAGE FOR PROJECT DATA

NOTE: NO AMBULATORY CARE

OCCUPANCY CLASSIFICATION(S) (CHAPTER 3) GROUP-B (BUSINESS)
PROFESSIONAL SERVICES

ALLOWABLE HEIGHTS & # OF STORIES (CHAPTER 5) - TABLE 504.3 & 504.4 (2) STORY ALLOWABLE (ABOVE GRADE) = 40 FT TOTAL BUILDING HT.
(2) STORY ACTUAL (ABOVE GRADE) = 22'-4" FT
(0) STORY ACTUAL (BELOW GRADE)

ALLOWABLE AREA (CHAPTER 5) - TABLE 506.2 (9,000) S.F. ALLOWED
(5,189) S.F. ACTUAL

AREA MODIFICATIONS (506.3) FRONTAGE INCREASE - N/A
SPRINKLER INCREASE - N/A

MIXED USE & OCCUPANCY (508) NO SEPARATIONS ARE REQUIRED
(SINGLE OCCUPANCY BUILDING)

INCIDENTAL USES (509) NO INCIDENTAL USE AREAS

TYPE OF CONSTRUCTION (602) TYPE - VB

EXTERIOR WALLS (602) FIRE SEPARATION DISTANCE = GREATER THAN 30 FEET = 0 HOUR RATING

EXTERIOR WALL OPENINGS (705) FIRE SEPARATION DISTANCE = GREATER THAN 30 FEET = NO LIMIT

FLOOR DRAFTSTOPPING (718.3) (SLAB ON GRADE) = N.A.

ATTIC DRAFTSTOPPING (718.4) HORIZONTAL CONCEALED ROOF SPACES NOT TO EXCEED 3,000 S.F.
(1) DRAFTSTOP SHALL BE PROVIDED IN ROOF ATTIC

INTERIOR FINISHES (803) SPRINKLED (GROUP-B)
EXIT ENCLOSURES & PASSAGEWAYS = CLASS-A
CORRIDORS = CLASS-B
ROOMS & ENCLOSURED SPACES = CLASS-C

SPRINKLER SYSTEM (903) GROUP-B
NO AMBULATORY CARE
AN AUTOMATIC SPRINKLER SYSTEM **IS NOT REQUIRED OR PROVIDED**.

FIRE EXTINGUISHERS (906) PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED PER THE IBC
AND/ OR THE IFC AS DIRECTED BY THE FIRE MARSHAL.

FIRE & SMOKE ALARMS (907) GROUP-B
FIRE ALARM SYSTEM IS NOT REQUIRED OR PROVIDED. (VERIFY WITH SPECIFICATIONS)
SMOKE DETECTION SYSTEM IS NOT REQUIRED OR PROVIDED. (VERIFY WITH SPECIFICATIONS)

OCCUPANT LOAD (1004) (**78**) TOTAL BUILDING OCCUPANT LOAD
SEE OCCUPANT LOAD SCHEDULE

EGRESS SIZING (1005) (**78**) TOTAL BUILDING OCCUPANT LOAD
OCCUPANT LOAD **78** DIVIDED BY 0.2 INCH = **15.6**" REQUIRED
(**2**) EXITS AT 34" = **68**" PROVIDED

NUMBER OF EXITS & EXIT ACCESS (1006) (75') MAX. COMMON PATH PER TABLE 1006.2.1 / (14') PROVIDED
(2) EXITS REQUIRED PER TABLE 1006.3.1
(**2**) EXITS PROVIDED

EGRESS LIGHTING (1008) PROVIDE EMERGENCY MEANS OF EGRESS ILLUMINATION AT AISLES, CORRIDORS, AND EXIT ACCESS STAIRWAYS / RAMPS TO CONFORM TO THE "IBC".

EXIT SIGNS (1013) PROVIDE ILLUMINATED EXIT SIGNS ABOVE ALL EXTERIOR DOORS, IN PRIMARY COMMON PATHS OF EGRESS TRAVEL, AND ABOVE DOOR IN INTERVENING SPACES OF EGRESS.

EXIT ACCESS (1016) EXITS SHALL BE PROVIDED WITH ACCESS TO THE REQUIRED EXITS WITHOUT PASSING THROUGH ADJACENT TENANT SPACES. - **N/A**

EXIT ACCESS TRAVEL DISTANCE (1017) GROUP-B, (WITHOUT SPRINKLER)
200 FT. ALLOWED
122 FT. ACTUAL

ACCESSIBILITY (CHAPTER 11) BUILDING ELEMENTS SHALL BE DESIGNED & CONSTRUCTED FOR INDIVIDUALS W/ DISABILITIES
1104.1 (1) ACCESSIBLE ROUTE PROVIDED
1104.4 (1) ACCESSIBLE ROUTE PER STORY
EXCEPT 1: ACCESSIBLE ROUTE IS NOT REQUIRED AT STORIES LESS THAN 3,000 SF

PLUMBING SYSTEMS/ FIXTURES (CHAPTER 29) PER TABLE 2902.1 - REQUIREMENTS
(2902.2) - SEPARATE FACILITIES REQUIRED FOR EACH SEX - UNLESS OCCUPANT LOAD = (15) OR LESS
(2902.3) - EMPLOYEE TOILET FACILITIES SHALL EITHER BE SEPARATE OR COMBINED EMPLOYEE
(2902.6) - DRINKING FOUNTAIN NOT REQUIRED W/ OCC. LOAD OF 15 OR LESS

CALCULATIONS:
(**78**) TOTAL OCCUPANTS
- MENS (HALF OF TOTAL OCCUPANT LOAD)
- WOMENS (HALF OF TOTAL OCCUPANT LOAD)

REQUIRED & PROVIDED FIXTURES:
WATER CLOSETS: REQUIRED (3) PROVIDED (4)
LAVATORIES: REQUIRED (3) PROVIDED (4)
SERVICES SINKS (1) PER STORY: REQUIRED (1) PROVIDED (1)
HI-LOW DRINKING FOUNTAINS: REQUIRED (1) PROVIDED (0)
- **BEVERAGE STATION SUBSITUTION REQUEST**
- A BEVERAGE STATION IS INTENDED TO BE USED IN PLACE OF A HI-LOW WATER FOUNTAIN. TO MEET THE REQUIREMENT FOR PROVIDING FREE PUBLIC DRINKING WATER. A MINI REFRIGERATOR WITH A GLASS DOOR WILL BE PROVIDED, SO BOTTLED WATER IS CLEARLY VISIBLE TO PATRONS.

Jones County Family Dental

3201 SE 37th Street
Anamosa, Iowa 52205

BID SET - NOT FOR CONSTRUCTION

DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

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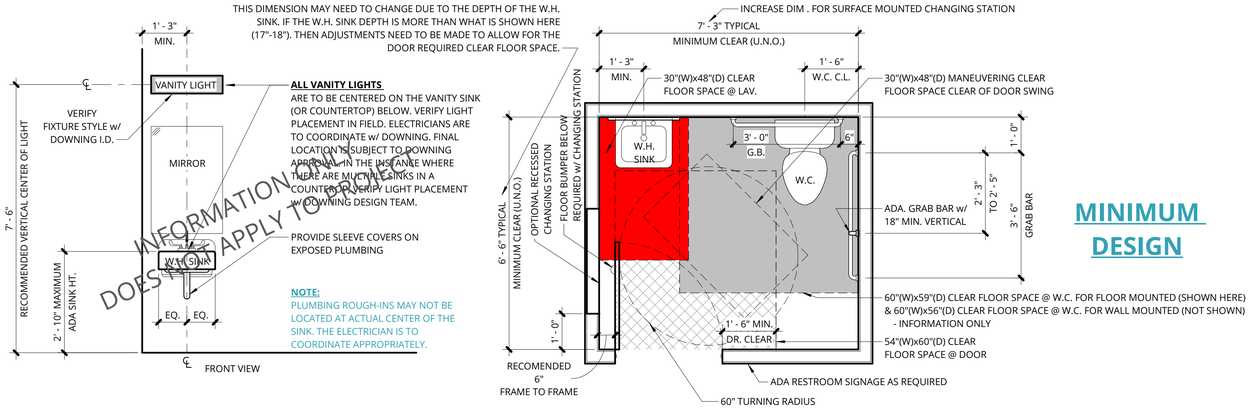
PLAN NO. = **90-154**

DWG. LIST

CODE ANALYSIS
PLANS & REVIEW

SHEET NO.

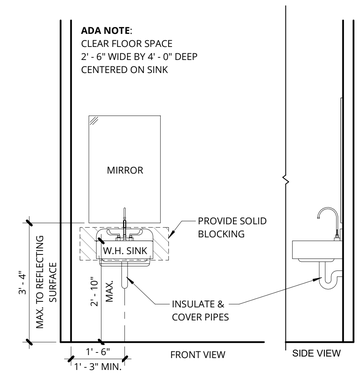
G-102



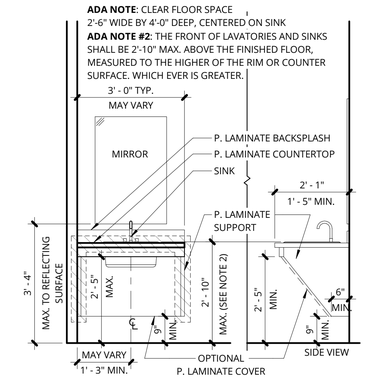
MINIMUM DESIGN

1 TYP. RESTROOM CODE PLAN-MINIMUM DESIGN
SCALE: 1/2" = 1'-0"

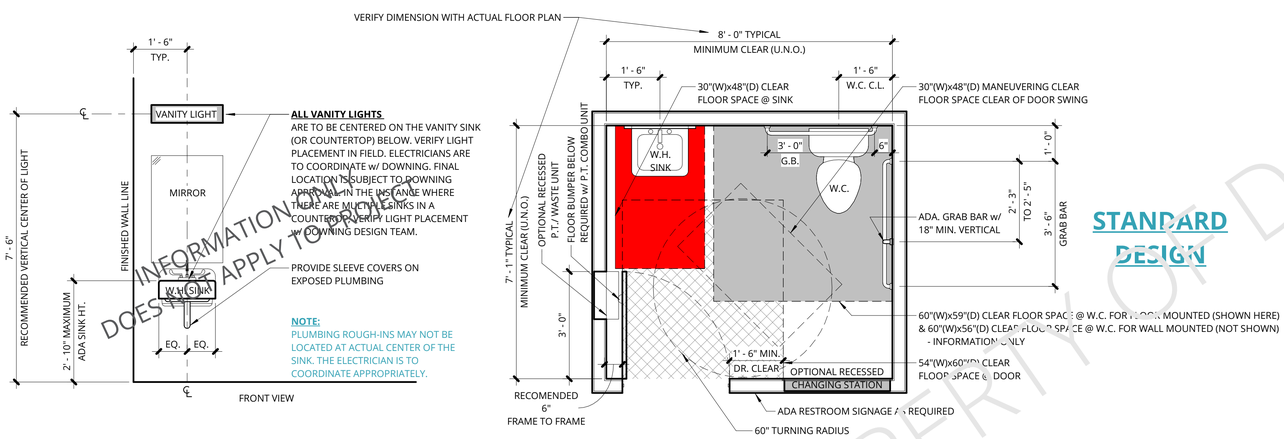
NOTE: THE SIZE OF THIS RESTROOM IS A "MINIMUM" REQUIREMENT. AND ONLY APPLIES TO WALL HUNG SINKS. IF A COUNTERTOP STYLE SINK IS DESIRED; THEN THE DEPTH & LENGTH OF THE ROOM NEEDS TO BE ADJUSTED ACCORDINGLY.



2 TYP. ADA WALL HUNG SINK
SCALE: 1/2" = 1'-0"

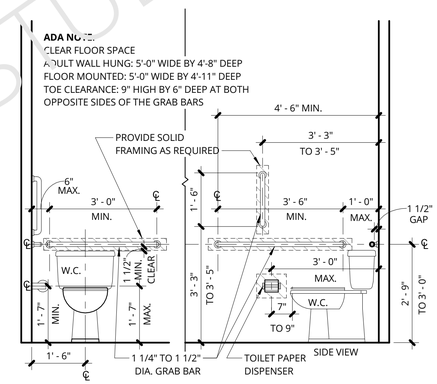


3 TYP. ADA P.LAMINATE W.H. SINK
SCALE: 1/2" = 1'-0"

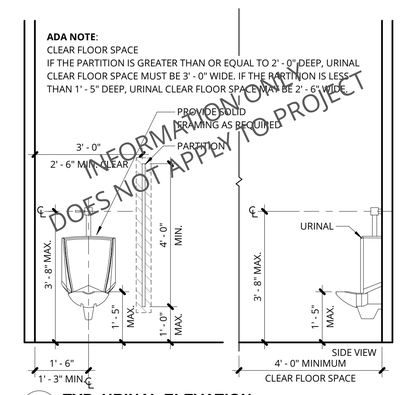


STANDARD DESIGN

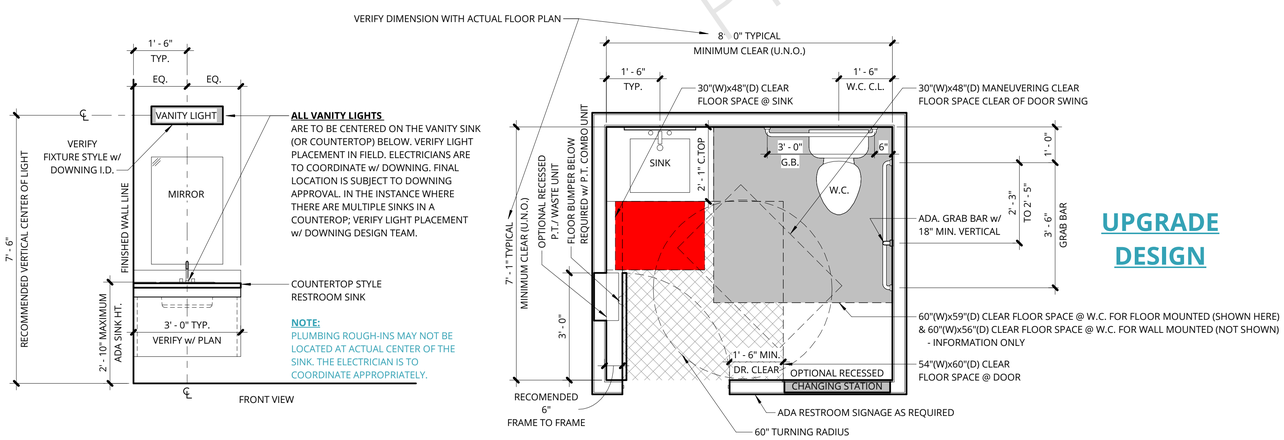
4 TYP. RESTROOM CODE PLAN-STANARD DESIGN
SCALE: 1/2" = 1'-0"



5 TYP. ADA WATER CLOSET
SCALE: 1/2" = 1'-0"

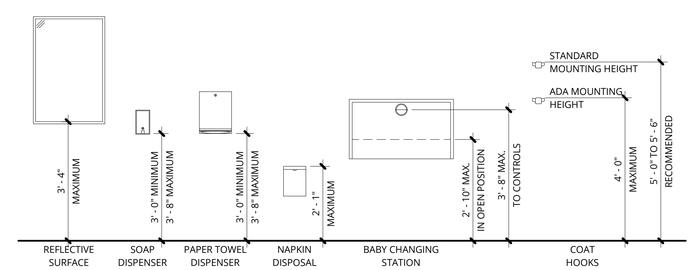


6 TYP. URINAL ELEVATION
SCALE: 1/2" = 1'-0"



UPGRADE DESIGN

7 TYP. RESTROOM CODE PLAN-UPGRADE DESIGN
SCALE: 1/2" = 1'-0"



8 TYPICAL ADA FIXTURES
SCALE: 1/2" = 1'-0"

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PLAN NO. = 90-154

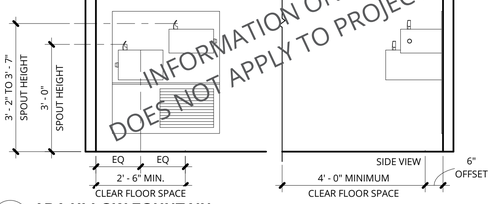
DWG. LIST
TYPICAL CODE/ ACCESSIBILITY DRAWINGS - RESTROOMS

SHEET NO.
G-103

CODE NOTES:
IF FOUNTAIN IS INSTALLED IN AN ALCOVE, THEN CODE STATES IT MUST BE AT LEAST 2' - 8" WIDE. CODE ALSO STATES THAT BOTH A HIGH AND A LOW MUST BE INSTALLED. THESE CAN EITHER BE SEPERATE OR COMBINED UNIT. THE LOWER SPOUT IS FOR WHEELCHAIR BOUND PERSONS, AND THE TALLER SPOUT IS FOR BENDING IMPAIRED PERSONS. THE LOWER FOUNTAIN MUST MAINTAIN A 2' - 6" x 4' - 0" CLEAR FLOOR SPACE IN FRONT OF THE FOUNTAIN FOR WHEELCHAIR ACCESS. THIS CAN EITHER BE PERPENDICULAR (SHOWN BELOW) OR PARALLEL APPROACH.

ADDITIONAL NOTE:
ACTUAL STYLE OF FOUNTAIN MAY VARY BASED ON THE OWNER/ CLIENT SELECTION PROCESS.

SUBSTITUTION NOTE:
WHEN APPLICABLE, A BEVERAGE STATION IS INTENDED TO BE USED IN PLACE OF A HI-LOW WATER FOUNTAIN. TO MEET THE REQUIREMENT FOR PROVIDING FREE PUBLIC DRINKING WATER. EITHER A MINI REFRIGERATOR WITH A GLASS DOOR WILL BE PROVIDED, SO BOTTLED WATER IS CLEARLY VISIBLE TO PATRONS. OR A SINK WILL BE INSTALLED IN THE CASEWORK AT ADA HEIGHTS. AND ACCESS TO CUPS WILL BE PROVIDED TO THE PUBLIC.



INFORMATION ONLY
DOES NOT APPLY TO PROJECT

1 ADA HI-LOW FOUNTAIN
SCALE: 1/2" = 1'-0"

APPLIES TO PROJECT.

MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER(S) SHALL NOT EXCEED **75 FT**.

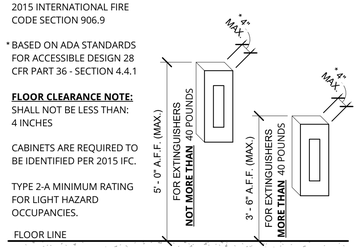
DRAWING BASED ON:
2015 INTERNATIONAL FIRE CODE SECTION 906.9

* BASED ON ADA STANDARDS FOR ACCESSIBLE DESIGN 28 CFR PART 36 - SECTION 4.4.1

FLOOR CLEARANCE NOTE:
SHALL NOT BE LESS THAN: 4 INCHES

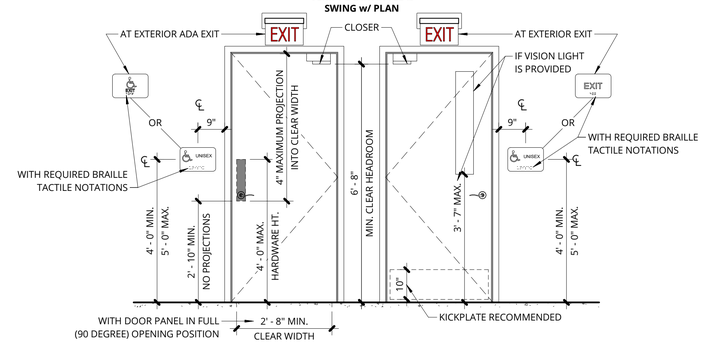
CABINETS ARE REQUIRED TO BE IDENTIFIED PER 2015 IFC.

TYPE 2-A MINIMUM RATING FOR LIGHT HAZARD OCCUPANCIES.



2 TYP. EXTINGUISHER
SCALE: 1/2" = 1'-0"

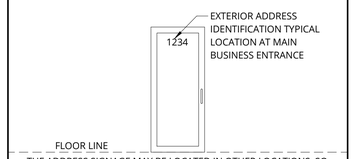
NOTE:
VERIFY DOOR STYLE & SWING w/ PLAN



3 TYP. ADA DOOR FEATURES & SIGNAGE
SCALE: 1/2" = 1'-0"

INSTALL PANIC HARDWARE WHERE REQUIRED.

SIGNAGE REQUIREMENTS:
- 4" MINIMUM HEIGHT
- 1/2" MINIMUM STROKE WIDTH
- SIGNAGE MUST BE VISIBLE FROM THE STREET, OR FRONTAGE ROAD.
- THE NUMBERS MUST BE BLACK OR WHITE, AND SHALL CONTRAST WITH THEIR BACKGROUND.
- NUMBERS SHALL BE ARABIC OR ALPHABETICAL LETTERS.
- IN ACCORDANCE WITH IFC 505.1; NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS.
- OR AS OTHERWISE REQUIRED BY LOCAL JURISDICTION.



THE ADDRESS SIGNAGE MAY BE LOCATED IN OTHER LOCATIONS, SO LONG AS IT MEETS THE REQUIREMENTS LISTED ABOVE. OTHER LOCATIONS MAY BE SUBJECT TO APPROVAL BY THE LOCAL JURISDICTION.

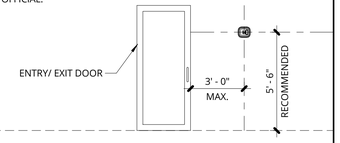
4 ADDRESS SIGNAGE
SCALE: 1/4" = 1'-0"

KNOX BOX REQUIREMENTS:
LOCATE ON THE HANDLE SIDE OF THE DOOR.
VERIFY REQUIREMENTS WITH LOCAL JURISDICTION.

KEY BOXES MUST BE INSTALLED ON THE SIDE OF THE BUILDING FACING THE STREET OF ADDRESS UNLESS THE FIRE DEPARTMENT HAS APPROVED ANOTHER LOCATION.

THE IFC REQUIRES KEY BOXES MEET UL 1037 ATTACK STANDARD

SECTION 506 – KEY BOXES
IFC 506.1 WHEN REQUIRED. "WHERE ACCESS TO OR WITHIN A STRUCTURE OR AN AREA IS RESTRICTED BECAUSE OF SECURED OPENINGS OR WHERE IMMEDIATE ACCESS IS NECESSARY FOR LIFE-SAVING OF FIRE-FIGHTING PURPOSES, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE A KEY BOX TO BE INSTALLED IN AN ACCESSIBLE LOCATION. THE KEY BOX SHALL BE OF AN APPROVED TYPE LISTED IN ACCORDANCE WITH UL 1037, AND SHALL CONTAIN KEYS TO GAIN ACCESS AS REQUIRED BY THE CODE OFFICIAL.



5 KNOX BOX DETAIL ELEVATION
SCALE: 1/4" = 1'-0"

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PLAN NO. = **90-154**

DWG. LIST

TYPICAL CODE/ ACCESSIBILITY DRAWINGS

SHEET NO.

G-104

SECTION 01 00 00

GENERAL REQUIREMENTS

PART 1 - GENERAL

A. SPECIAL TESTS AND INSPECTIONS

1. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor(s) of responsibility for compliance with the Contract Document requirements.
2. Special tests and inspections shall be conducted by a qualified testing agency as required by authorities having jurisdiction, as indicated throughout these documents, and as follows:
   a. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
   b. Notifying the General Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
   c. Submitting a certified written report of each test, inspection, and similar quality-control service to the General Contractor.
   d. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
   e. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
   f. Retesting and reinspecting corrected work as required.

B. PRODUCT REQUIREMENTS

1. Products: Items purchased for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
   a. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents.
   b. Comparable Product: Product that is demonstrated and approved through submittal process, or where indicated as a product substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
2. Basis-of-Design Product Specification: Where a specific manufacturer's product is named and accompanied by the words "basis of design," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of other named manufacturers.
3. Delivery, storage and handling shall be in accordance with manufacturer's written instructions.

C. **SUBSTITUTION REQUESTS**

1. By submitting a bid, the Bidder represents that its bid is based on materials and equipment described in the contract documents, including Addenda. Bidders shall request approval of qualifying substitute materials and equipment when the Specifications Sections list materials and equipment by product and/or manufacturer name.

D. **SUBMITTALS**

1. Submittals shall be transmitted to the designated project manager in electronic (PDF) format using contract administration website.
2. Subcontractor shall identify any/all deviations from the contract documents on submittals.
3. Action submittals may include, but are not limited to product data, shop drawings, physical samples, product schedules, etc.
   a. Physical samples shall be submitted for design team review for any products that have an aesthetic and/or finished quality including interior and exterior finishes. Electronic representation of physical samples will not be accepted.
4. Information submittals may include, but are not limited to qualification data, welding certificates, installer certification(s), manufacturer and/or product certification(s), product test reports, research/evaluation reports, preconstruction test reports, field test reports, compatibility test reports, maintenance data, manufacturer's instructions, material Safety Data Sheets (MSDS), etc.

E. **DELEGATED DESIGN**

1. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
   a. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
2. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit three copies of a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
   a. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 2 - (NOT USED)

PART 3 - (NOT USED)

SECTION 03 35 70

TROWELED & SEALED CONCRETE FLOORS

PART 1 - GENERAL

A. **SUBMITTALS**

1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Maintenance data.

B. **MOCK-UP**

1. Provide mockup in area to be covered by floor covering. Mockup to be approved by Architect prior to full/final installation.

C. **QUALITY ASSURANCE**

1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Troweled and sealed concrete floors shall be installed in accordance with ACI 302, *"Guide to Concrete Floor and Slab Construction."* It is the installers responsibility to ensure compliance with this standard.
3. Concrete floor slab installation tolerance requirements
   a. Floor Flatness (Ff) = 40 minimum.
   b. Floor Levelness (Fl) = 25 minimum
4. Provide bid option for imported sand in concrete mix design.

Verify floor flatness for specialty use project types (example: manufacturing or spaces with really sensitive equipment requiring a very flat floor).

D. **DESIGN CRITERIA**

1. Dynamic Coefficient of Friction: Achieve not less than 0.42 for level floor surfaces as determined by quality control testing according to ANSI A137.1.

E. **WARRANTY**

1. Manufacturer's standard warranty.

PART 2 - PRODUCTS

A. **APPROVED MANUFACTURERS**

1. Basis of Design Manufacturer: PROSOCO.
2. Alternative Approved Manufacturers:
   a. Euclid Chemical Company
   b. BASF
   c. Sinak

B. **PRE-DENSIFIER CONCRETE CLEANER**

1. Basis of Design Product: Consolideck Cleaner/Degreaser as manufactured by PROSOCO.
2. Cleaner to remove dirt, oil, grease, and other stains from existing slab surface.

C. **PENETRATING LIQUID DENSIFIER/SEALER FLOOR TREATMENT**

1. Basis of Design Product: Consolideck Blended Densifier as manufactured by PROSOCO.
2. Alternative Approved Products:
   a. LithiumCure 2000 as manufactured by Sinak

D. ACCESSORIES

1. Provide all accessory products/materials for full/complete installation.

PART 3 - EXECUTION

A. **INSTALLATION, GENERAL REQUIREMENTS**

1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. After completion of sealing, protect floors from subsequent construction activities with protective covering.

SECTION 05 50 00

METAL FABRICATIONS

PART 1 - GENERAL

A. SUBMITTALS

1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Shop drawings.

B. **MOCK-UP**

1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**

1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Unless directed otherwise, subcontractor shall verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings.

D. **DESIGN CRITERIA**

1. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, *"Structural Welding Code - Steel."*
2. Ferrous Metals:
   a. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
   b. Stainless-Steel Bars and Shapes: ASTM A 276, Type 304 or 316L.
   c. Steel Tubing: ASTM A 500, cold-formed steel tubing.
   d. Steel Pipe: ASTM A 53/A 53M, standard weight (Schedule 40), unless another weight is indicated or required by structural loads.
   e. Slotted Channel Framing: Cold-formed metal channels complying with MFMA-3, 1-5/8 by 1-5/8 inches. Channels made from galvanized steel complying with ASTM A 653/A 653M, structural steel, Grade 33, with G90 coating; 0.079-inch nominal thickness.
   f. Cast Iron: ASTM A 48/A 48M, Class 30, unless another class is indicated or required by structural loads.
3. Non-ferrous Metals:
   a. Aluminum Extrusions: ASTM B 221, alloy 6063-T6.
   b. Aluminum-Alloy Rolled Tread Plate: ASTM B 632/B 632M, alloy 6061-T6.
   c. Aluminum Castings: ASTM B 26/B 26M, Alloy 443.0-F.

E. **WARRANTY**

1. Manufacturer's standard warranty.

PART 2 - PRODUCTS

A. **METALS, GENERAL**

1. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
2. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
3. Rolled-Steel Floor Plate: ASTM A786/A786M, rolled from plate complying with ASTM A36/A36M or ASTM A283/A283M, Grade C or D.
4. Steel Tubing: ASTM A500/A500M, cold-formed steel tubing.

B. **FASTENERS**

1. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B633 or ASTM F1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
   a. Provide stainless-steel fasteners for fastening aluminum.
   b. Provide stainless-steel fasteners for fastening stainless steel.
2. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A307, Grade A; with hex nuts, ASTM A563; and, where indicated, flat washers.
3. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, ASTM F593; with hex nuts, ASTM F594; and, where indicated, flat washers; Alloy Group 1 (A1).
4. Anchor Bolts: ASTM F1554, Grade 36, of dimensions indicated; with nuts, ASTM A563; and, where indicated, flat washers. Hot-dip galvanize where item being fastened is indicated to be galvanized.
5. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E488/E488M, conducted by a qualified independent testing agency.'
6. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F2329/F2329M.
7. Post-Installed Anchors: Torque-controlled expansion anchors.
   a. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941, Class Fe/Zn 5, unless otherwise indicated.
   b. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 (A1) stainless-steel bolts, ASTM F593, and nuts, ASTM F594.

C. **MISCELLANEOUS MATERIALS**

1. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
2. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
3. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

D. **FABRICATION, GENERAL**

1. Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
2. Join components by welding, unless otherwise indicated.

E. **METAL ASSEMBLIES**

1. Metal ladders: Comply with ASME A17.1, ANSI A14.3, and OSHA 1926.1053.
2. Metal bollards
   a. Fabricate metal bollards from schedule 40 steel pipe.
   b. Exterior bollards to be hot-dip galvanized G90. Paint in field if not provided with prefinished cover, verify color with Architect.
   c. Concrete filled.
3. Loose steel lintels
   a. Fabricate loose steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated. Fabricate in single lengths for each opening unless otherwise indicated. Weld adjoining members together to form a single unit where indicated.
   b. Size loose lintels to provide bearing length at each side of openings equal to 1/12 of clear span, but not less than 8 inch (200 mm) unless otherwise indicated.
   c. Loose steel lintels located in exterior walls to be hot-dip galvanized G90. Paint in field, verify color with Architect.
   d. Refer to structural documents for more information.

F. **FINISHES**

1. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A153/A153M for steel and iron hardware and with ASTM A123/A123M for other steel and iron products.
2. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.
3. Shop Priming: Apply shop primer to comply with SSPC-PA 1, *"Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel,"* for shop painting.

PART 3 - EXECUTION

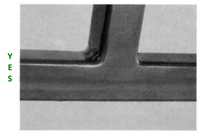
A. INSTALLATION, GENERAL REQUIREMENTS

1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
3. Grind all welds to be smooth, uniform, clean and of architectural grade appearance to meet NOMMA Finish #2.
   a. Bondo and skim-coat all exposed metal surfaces as needed to provide specified appearance and finish prior to painting.
4. Adjusting and Cleaning:
   a. Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop painting.
   b. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

B. **QUALITY STANDARDS**

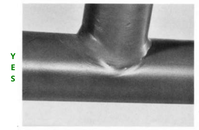
1. Graphic example - Weld finish requirements as referenced from NOMMA Joint Finish Guidelines:

YES



Finish #2 - Completely sanded joint, some undercutting and pinholes OK.

YES



Finish #2 - Completely sanded joint, some undercutting and pinholes OK.

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DRAWN BY: **Precon. Team**

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PLAN NO. = **90-154**

DWG. LIST

SPECIFICATIONS

SHEET NO.

SPX-101

SECTION 06 10 00

ROUGH CARPENTRY

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Maintenance data.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
D. **DESIGN CRITERIA**
1. Wood structural panel installation shall be in compliance with APA Form No. E30K.
E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **WOOD PRODUCTS, GENERAL**
1. Certification of Grading: DOC PS 20
B. **PRESERVATIVE-TREATED WOOD MATERIALS**
1. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2.
2. Kiln-dry material after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
3. Application: Treat items indicated on Drawings, and the following:
   a. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with flashing, vapor barriers, and waterproofing.
   b. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
4. Use stainless steel or ceramic type fasteners/anchors only when fastening preservative-treated wood materials.
C. **FIRE-RETARDANT-TREATED MATERIALS**
1. Fire-retardant-treated lumber and plywood: products with a flame-spread index of 25 or less when tested according to ASTM E 84.
2. Exterior type: ASTM D 2898.
3. Interior type: Moisture content of 28 percent or less when tested according to ASTM D 3201 at 92 percent relative humidity.
4. Where fire-resistant construction is indicated in Drawings. Interior wood blocking not located at exterior wall construction is not required to be fire-rated per IBC Section 603.1-14.
D. **DIMENSIONAL LUMBER FRAMING**
1. Structural framing: Number 2 or better Douglas Fir or Hem Fir.
2. Non-structural uses: Number 2 or better Spruce-Pine-Fir.
3. Application: Miscellaneous lumber including wall framing, blocking, cants, nailers, etc.
   a. For items of dimension lumber size, provide Construction, Stud, or No. 2 grade lumber with 19 percent maximum moisture content.
E. PLYWOOD BACKING PANELS
1. Telephone and Electrical Equipment Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 1/2 inch thick.
F. **FASTENERS**
1. General: Provide fasteners of size and type that comply with requirements specified in this Article for material and manufacturer. Comply with requirements of the General Structural Notes on the Drawings.
2. Where rough carpentry is exposed to weather, in ground contact, in area of high relative humidity, or preservative-treated, provide fasteners with hot-dip zinc coating complying with ASTM A 153 Class D.
3. Nails, Brads, and Staples: ASTM F 1667.
4. Power-Driven Fasteners: CABO NER-272.
5. Wood Screws: ASME B18.6.1.
6. Screws for Fastening to Cold-Formed Metal Framing: ASTM C 954, except with wafer heads and reamer wings, length as recommended by screw manufacturer for material being fastened.
7. Lag Bolts: ASME B18.2.1.
8. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers, galvanized per ASTM A153.
9. Adhesive type anchor bolts
   a. Anchor Rods:
      1. Carbon Steel for Interior Applications: Compliant with ASTM A307
      2. Stainless Steel for Exterior Wall Applications, when in contact with preservative-treated lumber: Type 304 Stainless Steel compliant with ASTM F593.
   b. Nuts:
      1. Carbon Steel for Interior Applications: Compliant with ASTM A563, Grade A
      2. Stainless Steel for Exterior Wall Applications, when in contact with preservative-treated lumber: Type 304 Stainless Steel compliant with ASTM F594.
   c. Washers
      1. Carbon Steel for Interior Applications: Compliant with ANSI B18.22.1,Type A
      2. Stainless Steel for Exterior Wall Applications, when in contact with preservative-treated lumber: Type 304 Stainless Steel compliant with ASTM 240.
   d. Adhesive
      1. Compliant with ASTM C881, Type I to IV, Grade 3, Class B or C.
   e. Acceptable manufacturers and products
      1. Hilti Fastening System: HIT HY200.
      2. Power Fastening Inc: Power-Fast.
      3. ITW Ramset/Red Head: Epcon C6 Anchors.
G. **SILL SEALER**
a. Install continuous closed-cell polyethylene foam at bottom of continuous wood sill framing as required by product manufacture to reduce air infiltration and moisture penetration.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, and similar supports to comply with requirements for attaching other construction.
3. Do not use materials with defects that impair quality of rough carpentry or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
4. Apply field treatment complying with AWPA M4 to cut surfaces of preservative-treated lumber and plywood.
5. Securely attach rough carpentry work to substrate by anchoring and fastening as required.

SECTION 06 16 00

SHEATHING

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Fire-Test-Response Characteristics: For assemblies with fire-resistance ratings, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction.
D. **DESIGN CRITERIA**
1. TBD
E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **PRESERVATIVE-TREATED PLYWOOD**
1. Preservative Treatment by Pressure Process: AWPA C9.
2. Mark plywood with appropriate classification marking of an inspection agency acceptable to authorities having jurisdiction.
3. Application: Treat items indicated on Drawings and plywood in contact with masonry or concrete or used with roofing, flashing, vapor barriers, and waterproofing.
4. Use stainless steel or ceramic type fasteners/anchors only when fastening preservative-treated wood materials.
B. **FIRE-RETARDANT-TREATED PLYWOOD**
1. General: Comply with performance requirements in AWPA C27.
   a. Use Exterior type for all exterior locations where indicated on drawings.
   b. Use Interior Type A, High Temperature (HT) for roof sheathing and where indicated.
   c. Use Interior Type A at all interior locations requiring wood sheathing, unless otherwise indicated.
C. **WOOD-BASED EXTERIOR WALL SHEATHING**
1. Plywood Wall Sheathing: Exposure 1, Structural I sheathing.
2. Oriented-Strand-Board Wall Sheathing: Exposure 1, Structural I sheathing.
   a. Locations as noted on Drawings
3. Provide 1/2" exterior wood sheathing at backside of vertical parapet framing and TPO roofing applications unless noted otherwise.
D. **GLASS-MAT GYPSUM WALL SHEATHING: ASTM C 1177/1177M.**
1. Type and Thickness: Type 'X', 5/8-inch thick
2. Products:
   a. Basis of Design: Dens Gold by G-P Gypsum.
   b. GlasRoc by CertainTeed.
   c. Securock by USG.
   d. E2EXP Extended Exposure Sheathing by National Gypsum.
3. Provide 5/8-inch thick, Type 'X' wall sheathing at the exterior wall within 4 feet, either side, of the fire wall separation joint, if applicable.
   a. Locations as indicated in Drawings
E. **NAILABLE-BASE INSULATION**
1. Refer to specification section 07 21 00 – Insulation.
F. **ACCESSORIES**
1. Fasteners: provide fasteners of size and type indicated in compliance with ASTM B 117.
2. Adhesives for Field Gluing Panels to Framing: Formulation complying with ASTM D 3498 that is approved for use indicated by manufacturers of both adhesives and panels.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions
2. Installation subcontractor is responsible for installing sheathing in full compliance with all applicable codes, standards and regulations.
3. Refer to structural documents, if applicable, for further information.
4. Framing Standard: Comply with AF&PA's, *"Details for Conventional Wood Frame Construction,"* unless otherwise indicated.
5. Do not splice structural members between supports, unless otherwise indicated.

SECTION 06 18 50

STRUCTURAL GLUE-LAMINATED TIMBER

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. Physical Samples: Provide samples of stained/sealed glued-laminated members for Architect's approval.
   b. Shop Drawings. Include sizes/layout of structural glued-laminated timbers and attachment brackets/methods.
2. Submittals for Record
   a. Manufacturer's product data for all products to be installed.
   b. Maintenance data.
   c. Certificates of Conformance: Issued by a qualified inspection and testing agency indicating that glulam timbers comply with requirements of AITC A190.1.
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements. Comply with provisions of AITC 111, *"Recommended Practice for Protection of Structural Glued Laminated Timber during Transit, Storage, and Erection."*
D. **DESIGN CRITERIA**
1. Structural Performance of Structural Glulam Timber: Fabricate and install structural glulam timber to withstand structural loads shown on Drawings without exceeding the allowable design working stresses according to AITC 117--DESIGN.
E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Alamco Wood Products.
2. Gruen-Wald Engineered Laminates, Inc.
3. Timber Technologies LLC.
4. Timberweld Engineered Timber Systems.
B. **MATERIALS**
1. Species for Beams, Purlins, and Arches: Provide glulam members of the following species that comply with AITC 117—MANUFACTURING.
   a. Species: Douglas fir, 24FV4, or Southern Yellow Pine.
   b. Refer to structural general notes for design values.
2. Appearance Grade: Provide Architectural appearance grade members complying with AITC 110.
3. Adhesive: Wet-use type complying with ASTM D 2559.
   a. Do not use melamine-urea-formaldehyde adhesives for preservative-treated structural glulam timber.
   b. End Sealer: Manufacturer's standard, transparent, colorless wood sealer that is effective in retarding the transmission of moisture at cross-grain cuts and is compatible with indicated finish.
   c. Penetrating Sealer: Manufacturer's standard, transparent, penetrating wood sealer that is compatible with indicated finish.
C. **CONNECTORS, ANCHORS, AND ACCESSORIES**
1. Fabricate from structural-steel shapes, plates, and bars complying with ASTM A 36; steel bars complying with ASTM A 575, Grade M 1020; and hot-rolled steel sheet complying with ASTM A 570, Grade 33.
   a. Fabricate beam seats and hangers as shown on Drawings.
   b. Fabricate tie rods from round steel bars with threads connected with forged-steel turnbuckles complying with ASTM A 668.
   c. Provide bolts, 3/4 inch, unless otherwise indicated, complying with ASTM A 307, Grade A; nuts complying with ASTM A 563; and, where indicated, flat washers.
   d. Finish each assembly and fastener with rust-inhibitive primer, 2-mil dry film thickness.
D. **ACCESSORIES**
1. Provide all accessory products/materials including, but not limited to sash materials, weatherstripping, flashing/sealant tapes, interior-insulating foam sealant, perimeter sealant, etc for full/complete system installation.
E. **FABRICATION**
1. Shop fabricate for connections to greatest extent possible, including cutting to length and drilling bolt holes.
2. End-Cut Sealing: Immediately after end-cutting each member to final length and after wood treatment (if any), apply a saturation coat of end sealer to ends and other cross-cut surfaces, keeping surfaces flood-coated for not less than 10 minutes.
3. Seal Coat: After fabricating and sanding each unit, and end-coat sealing, apply a heavy saturation coat of penetrating sealer on surfaces of each unit, except for treated wood where treatment included a water repellent.
F. **FINISHING**
1. Structural glued-laminated timber to be field-finished, including stained and sealed. Refer to drawings for finish requirements.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. General: Erect structural glulam timber framing true and plumb, with uniform, close-fitting joints. Provide temporary bracing to maintain lines and levels until permanent supporting members are in place.
   a. Use padded slings and protect corners with wood blocking.
3. Fit structural glulam timber framing by cutting and restoring exposed surfaces to match specified surfacing. Predrill for fasteners and assembly of units.
   a. Use connectors as templates for drilling bolt holes.
   b. Machine sand exposed surfaces to remove planing or surfacing marks, finishing with No. 120 grit sandpaper.
   c. Coat crosscuts with end sealer.
   d. Where treated members must be cut during erection, apply a field-treatment preservative to comply with AWPA M4.
4. Cutting: Avoid extra cutting after fabrication. Where field fitting is unavoidable, comply with requirements for shop fabrication.
   a. Where treated members must be cut during erection, apply a field-treatment preservative to comply with AWPA M4.
B. **FIELD QUALITY CONTROL**
1. Adjusting and cleaning
   a. Repair damaged surfaces and finishes after completing erection. Replace damaged structural glulam timber if repairs are not approved by Architect.
2. Protecting
   a. Do not remove wrappings on individually wrapped members until they no longer serve a useful purpose, including protection from weather, soiling, and damage from work of other trades.
      1. Coordinate wrapping removal with finishing work specified in Division 9. Retain wrapping where it can serve as a painting shield.

SECTION 06 40 23

INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Resign Deview
   a. Physical samples of all exposed products.
   b. Shop drawings.
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Unless directed otherwise, subcontractor shall verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings.
3. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
4. Subcontractor and/or supplier responsible to meet the following requirements:
   a. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings Coordinate fabrication schedule with construction progress to avoid delaying the Work.
      1. Locate concealed framing, blocking. and reinforcements that support woodwork by field measurements before being enclosed and indicate measurements on Shop Drawings.
      2. Established Dimensions: Where field measurements cannot be made without delaying the Work. establish dimensions and proceed with fabricating woodwork without field measurements. Provide allowance for trimming at site. and coordinate construction to ensure that actual dimensions correspond to established dimensions.
D. **DESIGN CRITERIA**
1. Unless otherwise indicated, comply with Custom Grade in accordance with AWI's *"Architectural Woodwork Quality Standards"* for design, fabrication and installation.
2. Cabinet hardware shall comply with ANSI/BHMA A156.9.
E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **FINISHES**
a. As indicated in Drawings.
B. **MILLWORK COMPONENTS**
1. Wood Products
   a. Medium-density fiberboard (ANSI A208.2, grade MD).
   b. Particleboard (ANSI A208.1, grade M-2).
   c. Softwood plywood (DOC PS 1, medium density overlay).
2. Thermoset decorative panels (LMA SAT-1).
3. High-Pressure Decorative Laminate (NEMA LD 3).
4. Solid-Surfacing Material (ISFA-2.
5. Quartz Surfacing Material (IFSA-3).
6. Fire-retardant treated materials: provide only where required to maintain code compliance as required by all applicable codes, standards and regulations and/or the authority having jurisdiction.
   a. Fire-retardant treated lumber (AWPA C20).
   b. Fire-retardant treated plywood (AWPA C27).
   c. Fire-retardant treated particiboard (flame-spread index of 25 or less; smoke-developed index of 25 or less per ASTM E 84)
   d. Fire-Retardant Fiberboard (ANSI A208.2)(flame-spread index of 25 or less and smoke-developed index of 200 or less per ASTM E 84)
7. Tempered Float Glass for Cabinet Doors (Only to be included if included on interior elevations): ASTM C 1048, Kind FT, Condition A, Type I, Class 1 (clear), Quality-Q3, with exposed edges seamed before tempering, 6 mm thick, unless otherwise indicated.
C. **CABINET HARDWARE AND ACCESSORIES**
1. Frameless Concealed Hinges: European type, 170-degrees of opening, institutional quality.
2. Back-Mounted Pulls: provide 4" wire pulls at all locations unless noted otherwise.
3. Catches: provide magnetic catches at all door locations unless noted otherwise.
4. Drawer Slides
   a. Drawers up to 18" wide and pencil drawers: standard duty (Grade 1, Grade 2, and Grade 3). Side mounted; full-extension type; zinc-plated steel with polymer rollers.
   b. Drawers 18" and wider: heavy duty (Grade 1HD-100 and Grade 1HD-200). Side mounted; full-extension type; zinc-plated steel ball-bearing slides.
   c. File drawer slides: heavy duty (grade 1HD-200).
5. Grommets: provide at all counters with knee space below. Install one (1) every 5 feet of open counter.
   a. Size: 2-1/2" diameter.
   b. Color: As selected by the Architect from manufacturer's standard colors.
   c. Furnished/installed by millwork supplier.
6. Door Locks: Provide at locations as indicated in Drawings.
7. Drawer Locks: Provide at locations as indicated in Drawings.
8. Chain Stops: Provide on all hinged doors adjacent to cabinets or countertops of greater depth, or adjacent to walls.
9. Shelf support: provide at all millwork shelves.
   a. Basis of design: Prime-Line clear plastic self-Locking shelf support.
10. Door/drawer bumpers: Provide transparent door bumpers at each door and drawer.
11. Countertop and bench supports (concealed bracket): provide at all countertops and bench with knee space below at length as needed, at 32" o.c typical: Holdahl AMH.
12. Wire management: provide between countertop brackets under countertops requiring gromets.
   a. Doug Mockett WM-2A wire management system.
D. **PLASTIC-LAMINATE CABINETS**
1. Type of cabinet construction: AWI flush overlay.
2. Edges: PVC edge banding, 0.12 inch thick, matching laminate in color, pattern, and finish.
3. Materials for drawer bodies
   a. Drawer Sides and Backs: solid-hardwood lumber.
   b. Drawer Bottoms: hardwood plywood.
4. Materials for semi-exposed surfaces other than drawer bodies: High-pressure decorative laminate.
5. For wood grain laminates, provide vertical grain on drawers unless otherwise noted on drawings.
E. **PLASTIC-LAMINATE COUNTERTOPS**
1. High-pressure decorative laminate: grade HGS.
2. Edge treatment: same as laminate cladding.
3. Core material at sinks: medium-density fiberboard made with exterior glue.
4. Colors, patterns, and finishes: As indicated in Drawings.
F. **SOLID SURFACE COUNTERTOPS**
1. Solid surface material thickness: ½".
2. Fabricate tops in one piece with shop-applied backsplashes.
3. Install integral sink bowls in countertops in shop.
4. Colors, patterns, and finishes: As indicated in Drawings.
5. Integral sinks: refer to Drawings for type and finish.
G. **SOLID SURFACE WINDOWSILLS**
1. Solid surface material thickness: ½".
2. Fabricate sills in one piece. Comply with solid-surfacing-material manufacturer's written recommendations for adhesives, sealers, fabrication, and finishing
3. Colors, Patterns, and Finishes: As indicated in Drawings.
H. **QUARTZ COUNTERTOPS**
1. Quartz material thickness: 3cm.
2. Fabricate tops in one piece with shop-applied backsplashes.
3. Install integral sink bowls in countertops in shop.
4. Colors, patterns, and finishes: As indicated in Drawings
5. Integral sinks: refer to Drawings for type and finish.

I. **FLUSH WOOD PANELING:**
1. Lumber trim and edges: at fabricator's option, trim and edges indicated as solid wood (except moldings) may be either lumber or veneered construction compatible with grain and color of veneered panels.
2. Matching of adjacent veneer leaves: book match.
3. Veneer matching within panel face: balance match.
4. Outside corner edge trim: Fry Reglet Corner Key.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Protect all work until project completion.
3. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

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DISCOVER/ ANALYZE | DEVELOP | **BID SET - NOT FOR CONSTRUCTION** | COMMIT | DELIVER

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS
05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
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PLAN NO. = **90-154**

DWG. LIST
SPECIFICATIONS

SHEET NO.
SPX-102

SECTION 07 17 00

BELOW-GRADE WATERPROOFING

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Shop drawings.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Unless directed otherwise, subcontractor shall verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings.
3. Testing and inspections: subcontractors shall engage a special inspection agency to test and inspect completed waterproofing installation before covering with other construction, and provide written report stating that installation complies with manufacturer's written instructions. Subcontractor will remove/replace non-compliant installations at own cost.
4. Preinstallation conference:
   a. Include installers of other construction trades connecting to below-grade waterproofing, such as air/vapor barrier, concrete, insulation, site drainage and management (drain tile and drainage mats if applicable), drainage fill, backfiller, masonry, windows, and other engineering disciplines whose work may penetrate the below-grade waterproofing.
   b. Review below-grade waterproofing requirements including surface preparation, substrate condition and pretreatment, substrate minimum curing period, special details, flashings, mockups, installation procedures, sequence of installation, testing and inspecting procedures, forecasted weather conditions, and protection and repairs.
5. Single-source manufacturer required
D. **DESIGN CRITERIA**
1. TBD
E. **WARRANTY**
1. Warranty period: 5 years from date of substantial completion.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Basis of Design Manufacturer: CETCO.
2. Alternative approved manufacturers:
   a. Carlisle Coatings and Waterproofing
   b. Tremco.
B. UNDERSLAB BENTONITE GEOTEXTILE WATERPROOFING
1. Basis of Design Product: Voltex DS as manufactured by CETCO.
2. Locations: typical at all below-grade underslab applications where below-grade waterproofing system is called for on drawings.
C. **COMPOSITE BENTONITE BELOW-GRADE WALL WATERPROOFING**
1. Basis of Design Product: Swelltite as manufactured by CETCO.
2. Locations: typical at all below-grade wall applications where below-grade waterproofing system is called out on drawings.
D. **MOLDED-SHEET DRAINAGE PANELS**
1. Basis of Design Product: Aquadrain 15X as manufactured by CETCO.
2. Locations: typical at all below-grade wall applications where below-grade waterproofing system is called out. To be used in addition to composite bentonite below-grade wall waterproofing coating noted above.
E. BENTONITE WATERSTOP
1. Basis of Design Product: WATERSTOP-RX as manufactured by CETCO.
2. Location: typical at all field concrete joints including, but not limited to:
   a. Below-grade foundation wall to footing connection.
   b. Below-grade concrete slab to foundation wall/footing connection.
F. **ACCESSORIES:**
1. Provide all accessories for full/complete system installation including, but not limited to granular bentonite, bentonite mastics, bentonite tubes, termination bars, protection sheets, grouts, fasteners, sealants, tapes, adhesives, membranes, boots, etc.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit below-grade waterproofing to be installed according to manufacturer's written instructions and warranty requirements.
   a. Do not apply waterproofing materials to surfaces where ice or frost is visible.
   b. Do not apply waterproofing materials in areas with standing water.
B. **FIELD QUALITY CONTROL**
1. Protect all work until project completion.
2. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.
C. **INSPECTION**
1. Prior to covering, below-grade waterproofing installer shall provide passing inspection report from manufacturer's representative upon installation.

SECTION 07 21 00

THERMAL INSULATION

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for record
   a. Manufacturer's product information for all products to be installed.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
D. **DESIGN CRITERIA**
1. Insulation materials, including integral facing covers, shall meet the following ratings when tested in accordance with ASTM E-84 (tunnel test):
2. Fuel contributed: 50.
3. Maximum installed flame spread: 25.
4. Maximum smoke developed: 450 (50 for insulation left exposed).
5. Self-extinguishing.
E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **BELOW-GRADE FOUNDATION INSULATION**
1. Type IV, 25 psi, extruded-Polystyrene Board Foundation Insulation: ASTM C 578.
2. Thickness and locations as indicated on Drawings.
B. **THERMAL BATT INSULATION**
1. Unfaced and/or kraft-faced fiberglass batt insulation to fully fill cavity.
2. Approved manufacturers:
   a. Owens Corning
   b. Certainteed
   c. Knauf
C. **BLOWN-IN FIBERGLASS INSULATION FOR ATTICS**
1. Loose-fill fiberglass insulation.
2. Approved Manufacturers:
   a. Owens Corning
   b. Certainteed
   c. Knauf
D. **BIBS (BLOWN-IN BLANKET SYSTEMS) INSULATION**
1. Custom-fit thermal blanket with blown-in fiberglass insulation to fully fill cavity.
2. Approved manufacturers:
   a. Owens Corning
   b. Certainteed
   c. Knauf
   d. Kinzler
E. **POLYISOCYANURATE BOARD INSULATION W/ COATED GLASS FACER**
1. Basis of Design Product: Xci CG (Class A) as manufactured by Hunter Panels
2. Alternative Approved Products
   1. CCW R2+ Matte Polyiso Insulation Board.
3. Glass-Fiber-Faced: ASTM C 1289, Type I, Class 1 or 2.
4. Thickness and locations as indicated on drawings.
5. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
6. At exterior walls, provide Type II, Class 1 or 2, Grade 3, 25 psi minimum compressive strength.
F. **SPRAY-APPLIED FOAM INSULATION**
1. Closed-Cell Polyurethane Foam Insulation: Spray-applied polyurethane foam using water as a blowing agent, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84.
2. Basis of Design: Icynene Proseal MD-C-200
   a. Thermal Performance: ASTM C518 R/in = 6.6
   b. Burn Characteristics: ASTM E84:
   c. Flame Spread: 25
   d. Smoke Development: 300
3. Thermal protection: where spray-applied foam insulation is exposed to interior side of building, provide thermal barrier coating (International Fireproof Technology Inc DC315 or equal). Apply sufficient coverage to achieve minimum 15-minutes fire rating measured by dry film thickness
G. **NAILABLE-BASE INSULATION W/ FIRE-TREATED PLYWOOD FACE**
1. Basis of Design Product: Xci Ply nailable-base insulation panel as manufactured by Hunter Panels.
2. Thickness and locations as indicated in Drawings.
3. Fastening of nailable base insulation per manufacturer's written installation instructions, and with manufacturer's approved fasteners.
   a. Fastener: Hunter Panels SIP HD Fastener.
   b. Length: as needed (minimum 1-inch penetration into metal studs)
   c. Fastener spacing: 16-inches vertical O.C. / 16-inches horizontal O.C. Fasteners must align with and penetrate metal studs.
H. **MINERAL WOOL INSULATION FOR EXTERIOR WALL CAVITIES**
1. Approved Products:
   a. CAVITYROCK as manufactured by Rockwool.
   b. Thermafiber RainBarrier HD as manufactured by Owens Corning.
2. Thickness and locations as indicated in Drawings.
I. **ACCESSORIES**
1. Provide all adhesives and fasteners required for full/complete installation.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Comply with manufacturer's written instructions applicable to products and applications indicated.

SECTION 07 25 00

COMMERICAL GRADE BUILDING WRAP

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
B. **MOCKUP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. TBD
D. **DESIGN CRITERIA**
1. TBD
E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Basis of Design Product: Tyvek CommercialWrap as manufacturered by DuPont.
2. Substitutions: Shall be approved by Architect; submit physical samples and product data of proposed substitution prior to ordering.
B. **FLASHING MATERIALS**
1. Weather barrier flashing: FlexWrap NF as manufactured by Tyvek.
2. Strip flashing: StraightFlash as manufactured by Tyvek.
3. Fluid-applied flashing: Tyvek fluid applied flashing & joint compound.
C. **ACCESSORIES**
1. Weather barrier tape: Tyvek tape
2. Closed-Cell Polyurethane Foam Insulation: GS Pro
D. **FASTENERS**
1. Cap nails: Tyvek wrap caps or equal.
2. Cap staples: Tyvek wrap caps staples or equal.
3. Standard non-cap staples not allowed.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Commercial building wrap and all related materials/accessories shall be installed accordance with Manufacturer's written installation instructions.

SECTION 07 27 00

UNDER-SLAB VAPOR BARRIER

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed
B. **MOCKUP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Single-source manufacturer required for all materials and accessories.
D. **DESIGN CRITERIA**
1. TBD
E. **WARRANTY**
1. Manufacturer's standard warranty

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Basis of Design Product: Stego Wrap (15 mil) Vapor Barrier by Stego Industries .
2. Alternative Approved Products:
   a. Vaporguard 15 mil by Reef-Industries.
   b. VaporBlock VB15 by Raven Industries.
3. Substitutions: Not allowed.
B. **ACCESSORIES**
1. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.
2. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and has demonstrated capability to bond vapor retarders securely to substrates indicated.
3. Mastic: Product recommended by vapor-retarder manufacturer for sealing vapor barrier penetrations.
4. Pipe Boots: Manufacturer's standard, factory-fabricated boots, manufactured of 15 mil vapor barrier material.
5. Perimeter/Edge Seals: Manufacturer-recommended two-sided seaming tape and/or termination bars.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation: Ensure that below-slab conditions are as requested by manufacturer's written installation instructions prior to installation.
2. Installation: Install vapor barrier in accordance ASTM E1643, or per manufacturer's written installation instructions, whichever is more stringent.
B. **INSPECTION**
1. Prior to concrete placement, under-slab vapor barrier installer shall provide passing inspection report from manufacturer's representative upon installation verifying installation is per ASTM E1643.

SECTION 07 31 13

ASPHALT SHINGLES

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. Physical sample of asphalt shingles for color selection and/or verification.
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.
B. **MOCKUP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. TBD
D. **DESIGN CRITERIA**
1. TBD
E. **WARRANTY**
1. Manufacturer's standard warranty

PART 2 - PRODUCTS
A. **ASPHALT SHINGLE MANUFACTURER**
1. Refer to elevations and/or exterior material legend for asphalt shingle manufacturer and type.
2. Substitutions: Shall be approved by Architect; submit physical samples and product data of proposed substitution.
B. **ACCESSORIES**
1. All asphalt shingle accessories including, but not limited, hip/ridge shingles, starter strips, mastics, self-adhering underlayment, boots, etc shall be furnished by asphalt shingle manufacturer.
C. ADDITIONAL MATERIALS
1. Metal flashing
   a. Types:
      1. Concealed metal flashing: 24-gague galvanized steel
      2. Step flashing: 24-gauge prefinished steel.
      3. Kickout flashing: prefinished, pre-formed Kickout Flashing by PBZ.
      4. Exposed misc flashing: 24-gauge prefinished steel.
   b. Colors to be confirmed by architect prior to ordering.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Installation shall be in accordance with manufacturer's written installation instructions.

SECTION 07 43 13

CULTURED STONE VENEER

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. Physical samples of cultured stone for color selection and/or verification.
2. Submittals for record
   a. Manufacturer's product information for all products to be installed.
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.
B. **MOCKUP**
1. Before installing cultured stone veneer, install 4-foot wide by 4-foot tall (minimum) in-place mockup. If approved, mockup may be part of finished construction.
2. Architect's review of mockup is for color, texture and workmanship.
C. **QUALITY ASSURANCE**
1. TBD
D. **DESIGN CRITERIA**
1. TBD
E. WARRANTY
1. Manufacturer's standard warranty

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Refer to elevations and/or exterior material legend for cultured stone manufacturer and type.
2. Substitutions: Shall be approved by Architect; submit physical samples and product data of proposed substitution prior to ordering.
B. **MORTAR AND GROUT**
1. As required by cultured stone manufacturer. To be confirmed by cultured stone veneer installation subcontractor.
C. **ACCESSORIES**
1. Cultured stone sills, caps, trim, hearthstones, keystones, lintels, water tables, light fixture stones, outlet stones, etc shall be furnished by same cultured stone manufacturer.
D. **ADDITIONAL MATERIALS**
1. Metal Flashing
   a. Type: 24-gauge prefinished galvanized steel. Color to be selected by architect prior to installation.
2. Metal lath (self furring & corrosion resistant)
   a. Diamond pattern galvanized steel mesh as required by cultured stone manufacturer.
3. Wall underlayment
   a. One (1) layer of rainscreen drainage lath.
   b. Basis of design: Drain-N-Dry Lath as manufactured by Boral.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Installation shall be in accordance with manufacturer's written installation instructions.
2. Mortar joints (if applicable)
   a. All joints shall be tight fitting.
   b. Strike all grout joints flush and tool per manufacturer's installation instructions.
3. Window, door and wall openings
   a. Butt field stones to wall openings.
   b. Install specified trim stones where indicated on drawings. If no trim stones identified, review trim stone locations with construction project manager and/or Architect prior to installation.
4. Workmanship
   a. Poorly attached stones are considered defective work. After set-up, inspect wall for loose stones.
   b. Remove and properly replace prior to project close-out.
   c. Seal all joints at wall openings and penetrations with a sealant approved for use with masonry products.
5. Protection
   a. Protect finished work from rain and work on either side of the wall during and for 48 hours following installation.
   b. Touch-up, repair, replace and clean prior to project closeout, or as directed by construction team.

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DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS
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PLAN NO. = **90-154**

DWG. LIST
SPECIFICATIONS

SHEET NO.
SPX-103

SECTION 07 46 46

FIBER CEMENT SIDING (JamesHardie)

PART 1 - GENERAL

A. **SUBMITTALS**
1. Submittals for Design Review
   a. Physical samples for Architect's approval.
      1. Submit one (1) sample for each product as indicated on Drawings
   b. Vertical and horizontal control joint layout. Control joints shall be approved by the Architect prior to installation.
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Maintenance data.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Single-source manufacturer required

D. **DESIGN CRITERIA**
1. Design criteria shall be in accordance with manufacturer's written instructions, and as follows:
   a. Fiber Cement Cladding (ASTM C-1186, Type A, Grade II requirements)
      1. Wet Flexural Strength: Result: 1418 psi, Lower Limit: 1015 psi.
      2. Water Tightness: No water droplets observed on any specimen.
      3. Freeze-thaw: No damage or defects observed.
      4. Warm Water: No evidence of cracking, delamination, swelling, or other defects observed.
      5. Heat-Rain: No crazing, cracking, or other deleterious effects, surface or joint changes observed in any specimen.
   b. Water Penetration (ASTM E-331): No water leakage observed into wall cavity.
   c. Wind Load (ASTM E-330): Contact manufacturer for ultimate test pressure data corresponding to framing type, dimensions, fastener type, and attachment clips. Project engineer(s) must determine Zone 4 and 5 design pressures based on project specifics.
      1. Minimum lateral deflection: L/120.
   d. Flame Spread index (ASTM E 84): 0
   e. Noncombustible Material (ASTM E 136): Meets or exceeds the requirements of this section to be classified as noncombustible.

E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS

A. APPROVED MANUFACTURERS
1. Basis of Design Manufacturer: JamesHardie HZ5 lap and panel siding, designed for climate zones 1-5
   a. Product type and finish: As indicated on Drawings.
   b. Size/Width: As indicated on Drawings. Fabricate at length and thickness as recommended by manufacturer
   c. Treat and seal exposed edges for moisture resistance as recommened by manufacturer.

B. **ACCESSORIES**
1. Provide all accessory products/materials including, but not limited to flashings, fasteners, sealant, etc for full/complete system installation.
2. Sealant: Sealant shall comply with ASTM C920, Class 35.
3. Trim: provide prefinished aluminum corner trim at all inside and outside corners. Confirm trim type with Architect if not noted on drawings.
4. Control joints: provide manufacturer's standard prefinished control joints as required by the manufacturer.

PART 3 - EXECUTION

A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.

DESIGN GUIDELINES (DELETE PRIOR TO BIDDING)

A. Lap Siding style sizes available:
1. Smooth 5-1/4", 4" exposure.
2. Smooth 7-1/4", 6" exposure.
3. Smooth 8-1/4", 7" exposure.
4. Texture 5-1/4", 4" exposure.
5. Texture 7-1/4", 6" exposure.
6. Texture 8-1/4", 7" exposure.
7. Beaded 8-1/4", 7" exposure.

B. Clearances:
1. Minimum 2" clearance above decking, concrete, and roofing
2. Minimum 6" clearance above grade

SECTION 07 62 00

SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

A. **SUBMITTALS**
1. Submittals for Design Review
   a. Samples of exposed, prefinished metals.
2. Submittals for Record
   a. Shop drawings of shop-fabricated profiles.
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Comply with SMACNA's Architectural Sheet Metal Manual.

D. **DESIGN CRITERIA**
1. Provide manufactured roofing specialties, incorporating roof edge treatment that complies with recommendations of FM Loss Prevention Data Sheet 1-49 for project-specific wind zone.

E. **WARRANTY**
1. Materials and workmanship warranty: 10 years.
2. Finish warranty: 20 years.

PART 2 - PRODUCTS

A. APPROVED MANUFACTURERS
1. Berridge
2. Elevate, a brand of Holcim Building Envelope (previously Firestone Building Products).
3. PAC-CLAD

B. **MATERIALS AND FINISHES**
1. Aluminum Sheet: ASTM B 209
   a. Clear anodic finish: AAMA 611, class I.
   b. Color Anodic Finish: AAMA 611, class I or class II.
   c. Painted (PVDF) finish: AAMA 2605, two-coat PVDF (Kynar 500 / Hylar 5000).
2. Metallic-Coated Steel Sheet: G90 coating
   a. Exposed Coil-Coated Finish: two-coat fluoropolymer: AAMA 621.
3. Concealed Finish: manufacturer's standard white or light-colored acrylic or polyester backer finish, 0.5 mil thickness minimum.
4. Colors: as selected by Architect, refer to drawings for color selections.

C. PRODUCTS
1. Roof Edge Flashing and Fascia Cap: 22-gauge prefinished galvanized steel.
2. Prefinished Metal Parapet Coping: 22-gauge galvanized steel.
   a. Accessories: provide fully welded corner coping pieces at all parapet corners.
   b. Parapet coping pieces to adjoin with adjacent in-line pieces with butt-joints. Furnish 4-inch wide (minimum) concealed splice plates.
3. Base and Sill Flashing: 22-gauge prefinished galvanized steel.
4. Counterflashing and Flashing Receivers: 22-gauge prefinished galvanized steel.
5. Custom fabricated brake metal profiles: 22-gauge prefinished galvanized steel unless noted otherwise.

D. **UNDERLAYMENT MATERIALS**
1. Self-Adhering, High-Temperature Sheet: Minimum 30 to 40 mils thick, consisting of slip-resisting polyethylene-film top surface laminated to layer Of butyl or SBS-modified asphalt adhesive, with release-paper backing; cold applied. Provide primer when recommended by underlayment manufacturer.
   a. Thermal Stability: ASTM D 1970; stable after testing at 240 deg F.
   b. Low-Temperature Flexibility: ASTM D 1970; passes after testing at minus 20 deg F.

E. **ACCESSORIES**
1. Provide underlayment materials, sealant tape, sealants, seam sealers and bituminous coatings as required for full and complete installation.
2. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal.
   a. Blind fasteners or self-drilling screws, gasketed. Use high-strength aluminum or stainless-steel hex-washer heads at areas not exposed to view. Match color of metal where exposed to view.
   b. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating.
   c. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.
   d. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel or hot-dip galvanized steel.

F. **FABRICATION**
1. Form sheet metal flashing and trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.
2. Sealed Joints: Form nonexpansion but movable joints in metal to accommodate elastomeric sealant.

PART 3 - EXECUTION

A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Anchor sheet metal flashing and trim and other components securely in place, with provisions for thermal and structural movement.
   a. Install sheet metal flashing and trim true to line and levels indicated. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.
   b. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
   c. Install exposed sheet metal flashing and trim without excessive oil canning, buckling, and tool marks.
   d. Torch cutting of sheet metal flashing and trim is not permitted.
   e. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces exposed to view.
   f. Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by SMACNA.
   g. Seal joints as shown and as required for watertight construction.

B. METAL PROTECTION
1. Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by SMACNA.
   a. Coat back side of uncoated aluminum and Stainless-steel sheet metal flashing and trim with bituminous coating where flashing and trim will contact wood, ferrous metal, or cementitious construction.
   b. Underlayment: Where installing metal flashing directly on cementitious or wood substrates, install a course of felt underlayment and cover with a slip sheet or install a course of polyethylene sheet.

C. **ROOF FLASHING INSTALLATION**
1. General: Install work with laps, joints, and seams that will be permanently watertight and weather resistant.
2. Roof Edge Flashing: Anchor to resist uplift and outward forces according to recommendations in SMACNA's "Architectural Sheet Metal Manual" and as indicated. Interlock bottom edge of roof edge flashing with continuous cleat anchored to substrate at staggered 3-inch centers.
3. Pipe or Post Counterflashing: Install counterflashing umbrella with close-fitting collar with top edge flared for elastomeric sealant, extending a minimum of 4 inches over base flashing. Install stainless-steel draw band and tighten.
4. Counterflashing: Coordinate installation of counterflashing with installation of base flashing. Insert counterflashing in reglets or receivers and fit tightly to base flashing. Extend counterflashing 4 inches over base flashing. Lap counterflashing joints a minimum of 4 inches and bed with sealant.
5. Roof-Penetration Flashing: Coordinate installation of roof-penetration flashing with installation of roofing and other items penetrating roof. Seal with sealant and clamp flashing to pipes that penetrate roof.

D. **WALL FLASHING INSTALLATION**
1. General: Coordinate installation of wall flashing with installation of wall-opening components such as windows, doors, and louvers.

E. **CLEANING AND PROTECTING**
1. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering. Clean and neutralize flux materials. Clean off excess solder and sealants.
2. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions.

SECTION 07 71 23

GUTTERS & DOWNSPOUTS

PART 1 - GENERAL

A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Shop drawings.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Source Limitations: Single-Source Manufacturer required

D. **DESIGN CRITERIA**
1. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
2. Comply with the latest edition of the Architectural Sheet Metal Manual (ASMM), *"Sheet Metal and Air Conditioning Contractors' National Association (SMACNA)."*
3. Comply with the latest edition AAMA 1405.1, *"Specification for Aluminum Raincarrying Systems; American Architectural Manufacturers Association (AAMA)"*

E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS

A. **APPROVED MANUFACTURERS**
1. Basis of Design Manufacturer: Allstate Gutter
2. Substitutions: Shall be approved by Architect; submit physical samples and product data of proposed substitution.

B. **MATERIALS**
1. Sheet metal: continuous and seamless roll-formed Aluminum sheet compliant with ASTM B 209, Alloy 3105-H24 with factory-applied min. 70% Kynar high performance organic fluoropolymer coating, color as indicated in Drawings.

C. **COMPONENTS**
1. Gutters: K-style, 0.032" min. thickness.
   a. Size: As indicated in Drawings
2. Downspouts: rectangular, corrugated, 0.032" min. thickness.
   a. Size: As indicated in Drawings
3. Endcaps, inside and outside miters: 0.027" min. thickness.
4. Seamless gutter hangers and anchors, downspout brackets: 0.063" min. thickness.
5. Sealant: refer to Section 079200 – Joint Sealants.
6. Fasteners: Aluminum, color-matched to gutter and downspout materials.

D. **ACCESSORIES**
1. Splash blocks: Architectural cast stone veneer remnants, minimum 12" x 12", set flush with grade and pitched minimum 1/2" per foot away from building.

E. **FABRICATION**
1. Form seamless gutters and downspouts of profiles and size indicated.
2. Fabricate with required connection pieces.
3. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or performance.
4. Hem exposed edges of metal.
5. Fabricate seamless gutter and downspout accessories.
6. Seal all seams and joints watertight.

F. FACTORY FINISHING
1. Fluoropolymer Coating: High Performance Organic Finish, AAMA 2604; multiple coat, thermally cured fluoropolymer finish system; color as indicated in Drawings.

PART 3 - EXECUTION

A. INSTALLATION, GENERAL REQUIREMENTS
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Protect all work until project completion.
3. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

SECTION 07 92 00

JOINT SEALANTS

PART 1 - GENERAL

A. **SUBMITTALS**
1. Submittals for Design Review
   a. Physical samples for color selection.
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.

D. **DESIGN CRITERIA**
1. Sealant Installation Standard: ASTM C 1193.

E. **WARRANTY**
1. Urethane sealants: 5 years from date of Substantial Completion.
2. Silicone sealants: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

A. APPROVED MANUFACTURERS
1. Basis of Design Manufacturer: Tremco.
2. Alternative Approved Manufacturers
   a. Master Builders Solutions, a division of BASF.
   b. Dow Corning.
   c. Pecora.
   d. Sika.
   e. United States Gypsum.

B. **MATERIALS, GENERAL**
1. Subcontractor is responsible for verifying the compatibly of all materials, including sealants, backing, substrates, etc.
2. Stain-test response characteristics: ASTM C 1248.
3. Silicone and elastomeric sealants: ASTM C 920.
4. Joint sealant backing
   a. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing. Backing materials shall comply with ASTM C 1330.
5. Miscellaneous materials
   a. Provide all miscellaneous materials including primers, cleaners, etc as required by manufacturer for full/complete installation.

PART 3 - EXECUTION

A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Perform preconstruction surface testing to determine if surface prep such as priming is required such priming to properly install joint sealants per manufacturer's written requirements.
3. Protect all work until project completion.
4. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

B. JOINT SEALANT SCHEDULE
1. Self-leveling urethane sealant; ASTM C920.
   a. Basis of Design: Tremco THC 900/901
   b. Use at all interior pavement joints unless noted otherwise.
2. Acoustical sealant: ASTM C-919
   a. Basis of Design: Tremco Acoustical Sealant.
   b. Use at all electrical outlets and top/bottom of full-height interior partitions.
3. Acrylic latex sealant: ASTM C834
   a. Basis of Design: Tremco Tremflex 834.
   b. Use at interior areas unless noted otherwise.
4. Sealant for plumbing fixtures: ASTM C920
   a. Basis of Design: Tremco Spectrem 3.
   b. Use where plumbing fixtures meet adjacent construction.
5. Field-tintable silicone sealant: ASTM C920
   a. Basis of Design: Tremco Spectrem 4-TS
   b. Use at all exterior building joints. Use of urethane sealants at exterior is not allowed.
   c. Color to be selected by Architect from manufacturer's full range.
6. Exterior joints in the following horizontal traffic surfaces per SUDAS (confirm and coordinate with Civil Drawings if applicable):
   a. Control, expansion, and isolation joints in cast-in-place concrete slabs.
   b. Joints between different materials listed above.
   c. Joints in wall panels exterior soffits.
   d. Other joints as indicated.

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PLAN NO. = **90-154**

DWG. LIST

SPECIFICATIONS

SHEET NO.

SPX-104

SECTION 08 11 13

HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL
A. SUBMITTALS
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Door and frame schedule corresponding with opening numbers as indicated in Drawings.
   c. Shop drawings.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.

D. **DESIGN CRITERIA**
1. All hollow metal door and frame products and installations shall comply with *"Specifications for Standard Steel Doors and Frames (SDI-100)"*, including all referenced standards.

E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Ceco Door Products.
2. Curries, an Assa Abloy Company.
3. Steelcraft.
4. Windsor Republic Doors

B. **STANDARD HOLLOW METAL DOORS**
1. General: comply with ANSI/SDI A250.8.
2. Construction: level 3 and physical performance level-A (extra heavy duty).

C. **STANDARD HOLLOW METAL FRAMES**
1. General: comply with ANSI/SDI A250.8.
2. Windstorm hollow metal doors to be 16 gauge with extra welds and hardware reinforcements and preps as required by manufacturer to meet ANSI 250.13 windstorm certification and withstand 60 psf of pressure.

D. **FIRE-RATED DOOR AND FRAMES**
1. Fire-resistive, temperature-rise framing system to provide rated assembly.

E. **HOLLOW METAL DOORS AND FRAMES FOR STORM SHELTERS**
1. General: Provide in compliance with "*ICC 500 - 2014, ICC/NSSA Standard for the Design and Construction of Storm Shelters*".

F. **FRAME ANCHORS**
1. Provide standard jamb and floor anchors for full/complete installation in the various wall assemblies throughout the project.

G. **STOPS, MOULDINGS AND VISION KITS**
1. Provide manufacturer's standard fixed and loose stops for glazed lites to match material and thickness of frame.
2. Provide fire-rated vision kits as required for fire-rated assembly.

H. **FABRICATION**
1. Tolerances: Fabricate hollow metal work to tolerances indicated in SDI 117.
2. All exterior doors and frames to be galvanized.
3. Hollow Metal Doors:
   a. Exterior Doors: Provide weep-hole openings in bottom of exterior doors. Seal joints in top edges of doors against water penetration
   b. Glazed Lites: Factory cut openings in doors.
4. Hollow Metal Frames:
   a. Provide countersunk, flat exposed fasteners unless otherwise indicated.
5. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers.
   a. Single-Door Frames: Three door silencers.
   b. Double-Door Frames: Two door silencers.

I. **STEEL FINISHES**
1. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.
   a. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
3. Protect all work until project completion.
4. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

SECTION 08 14 16

FLUSH WOOD DOORS

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. Physical samples of prefinished doors.
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Door and frame schedule corresponding with opening numbers as indicated in Drawings.
   c. Shop drawings
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Source Limitations: Single-Source Manufacturer required

D. **DESIGN CRITERIA**
1. Comply with ANSI/WDMA I.S.1A-21 -Industry Standard for Interior Architectural Wood Flush Doors.
2. Fire-Rated Wood Doors: Doors complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UBC Standard 7-2 or UL 10C.

E. **WARRANTY**
1. Warranty period: life of installation.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Assa Abloy.
2. VT Industries.

B. DOOR CONSTRUCTION
1. WDMA I.S.1-A Performance Grade: heavy-duty unless otherwise indicated
2. Core:
   a. Non-rated doors: Structural Composite Lumber (SCL)
   b. Rated-doors: Mineral Core

C. VENEERED-FACED DOORS
1. Species: As indicate in Drawings.
2. Grade: Premium, with Grade A faces.
3. Cut: To be selected from manufacturer's full range, including premium options.
   a. Veneer match on door faces: balance match.
   b. Veneer match between door leaves: book match.
4. Factory finishing
   a. Grade: Premium.
   b. Sheen: Satin.

D. PLASTIC-LAMINATE FACED DOORS
1. Finish: As indicated in Drawings.

E. **LITE FRAMES**
1. Basis of Design: Moulding VT1 as manufactured by VT Industries.
2. Species and finish to match wood door.
3. Provide fire clips on rated assemblies.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
3. Protect all work until project completion.
4. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

SECTION 08 41 10

INTERIOR ALUMINUM STOREFRONT

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review:
   a. Physical Samples for Architect's approval:
      1. Submit one (1) prefinished aluminum sample for Architect's approval prior to ordering.
   b. Shop Drawings:
      1. Submit shop drawings showing plans, elevations, sections, details, and attachments to other work.
      2. Include details of provisions for system expansion and contraction and for drainage of moisture in the system to the exterior where applicable.
      3. Include product test results.
2. Submittals for Record:
   a. Manufacturer's product and maintanence data for all installed products
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Unless directed otherwise, Subcontractor shall verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings.
2. Accessible Entrances: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.
3. Single-source manufacturer required

D. **DESIGN CRITERIA**
1. Installer is responsible for verifying the following performance criteria:
   a. Deflection of Framing Members:
      1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans up to 13 feet 6 inches and to 1/240 of clear span plus 1/4 inch for spans greater than 13 feet 6 inches or an amount that restricts edge deflection of individual glazing lites to 3/4 inch, whichever is less.
      2. Deflection Parallel to Glazing Plane: Limited to L/360 of clear span or 1/8 inch, whichever is smaller.
   b. Structural-Test Performance: Provide aluminum-framed systems tested according to ASTM E 330.

E. **WARRANTY**
1. System Warranty: Installer agrees to repair or replace components of aluminum-framed systems that do not comply with requirements or that fail in materials or workmanship within three (3) years from date of Substantial Completion.
2. Finish Warranty: Installer agrees to repair or replace components on which finishes do not comply with requirements or that fail in materials or workmanship within specified five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS:**
1. Oldcastle Building Envelope (OBE).
2. Manko Windows.
3. Tubelite.

B. **SYSTEM CHARACTERISTICS**
1. Face Size: 2".
2. System Depth: 4 1/2" total.
3. Construction: Standard, non-thermal.
4. Glazing System: Retained mechanically with gaskets on four sides.
5. Glazing Plane: Center; where matching existing construction, confirm existing glass plane prior to fabrication

C. **ALUMINUM FINISH:**
1. Color Anodic Finish: AAMA 611-12, Class II.
2. Color: As indicated on Drawings.

D. **MATERIALS**
1. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
   a. Sheet and Plate: ASTM B 209.
   b. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
   c. Extruded Structural Pipe and Tubes: ASTM B 429.
   d. Structural Profiles: ASTM B 308/B 308M.
   e. Welding Rods and Bare Electrodes: AWS A5.10/A5.10M.
2. Steel Reinforcement: Manufacturer's standard zinc-rich, corrosion-resistant primer, complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.
   a. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
   b. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
   c. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.
3. Glazing: See spec section 08 80 00

E. **GLAZING**
1. Refer to specification section 08 80 00 – Glazing

F. **ACCESSORIES**
1. Provide manufacturer's standard items for full and complete system installation including, but not limited to brackets, reinforcing components, shims, fasteners, flashing materials, bituminous coatings, gaskets, sealants, etc.

G. **FABRICATION**
1. Fabrication shall be in accordance with Manufacturer's written instructions.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Installation shall be in accordance with Manufacturer's written installation instructions.
2. Metal Protection:
   a. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or applying sealant or tape, or by installing nonconductive spacers as recommended by Manufacturer for this purpose.
   b. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
3. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within the system to exterior.
4. Set continuous sill members and flashing in full sealant bed.
5. Install components plumb and true in alignment with established lines and grades, and without warp or rack.

SECTION 08 41 13

ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. Physical Samples for Architect's approval:
      1. Submit one (1) prefinished aluminum sample for each product indicated in Drawings
   b. Shop Drawings:
      1. Submit shop drawings showing plans, elevations, sections, details, and attachments to other work.
      2. Include details of provisions for system expansion and contraction and for drainage of moisture in the system to the exterior.
2. Submittals for Record
   a. Product Data: For each type of product indicated including product test reports
   b. Operation and Maintenance data
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.

B. **MOCKUP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Unless directed otherwise, Subcontractor shall verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings.
2. Accessible Entrances: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.
3. Single-source manufacturer required

D. **DESIGN CRITERIA**
1. Installer is responsible for verifying the following performance criteria:
   a. Minimum thermal performance. Installer shall confirm thermal performance requirements with Architect prior to ordering.
   b. Wind Loads: As required by the manufacturer to maintain system performance and warranty for area in which storefront is installed.
   c. Deflection of Framing Members:
      1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans up to 13 feet 6 inches and to 1/240 of clear span plus 1/4 inch for spans greater than 13 feet 6 inches or an amount that restricts edge deflection of individual glazing lites to 3/4 inch, whichever is less.
      2. Deflection Parallel to Glazing Plane: Limited to L/360 of clear span or 1/8 inch, whichever is smaller.
   d. Structural-Test Performance: Provide aluminum-framed systems tested according to ASTM E 330.
   e. Air Infiltration: Provide aluminum-framed systems with maximum air leakage through fixed glazing and framing areas of 0.06 cfm/sq. ft. of fixed wall area when tested according to ASTM E 283 at a minimum static-air-pressure difference of 6.24 lbf/sq. ft.
   f. Water Penetration under Static Pressure: Provide aluminum-framed systems that do not evidence water penetration through fixed glazing and framing areas when tested according to ASTM E 331 at a minimum static-air-pressure difference of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft.

E. **WARRANTY**
1. System Warranty: Installer agrees to repair or replace components of aluminum-framed systems that do not comply with requirements or that fail in materials or workmanship within three (3) years from date of Substantial Completion.
2. Finish Warranty: Installer agrees to repair or replace components on which finishes do not comply with requirements or that fail in materials or workmanship within specified five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Basis of Design Product: CMI Architectural 450TBCG Thermal
2. Alternative Approved Products:
   a. Manko Windows 2450xpt CG.
   b. Tubelite T14000 Series Storefront.
   c. Oldcastle Building Envelope (OBE) 3000 XT.
   d. Kawneer Trifab VersaGlaze® 451T Framing system

B. **SYSTEM CHARACTERISTICS**
1. Face Size: 2-inch.
2. System Depth: 4 1/2-inch total.
3. Construction: Thermally improved; thermally broken.
4. Glazing System: Retained mechanically with gaskets on four sides.
5. Glazing Plane: Center; where matching existing construction, confirm existing glass plane prior to fabrication

C. **ALUMINUM FINISH**
1. Color Anodic Finish: AAMA 611-12, Class II.
2. Finish: As indicated in Drawings.

D. **MATERIALS**
1. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
   a. Sheet and Plate: ASTM B 209.
   b. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
   c. Extruded Structural Pipe and Tubes: ASTM B 429.
   d. Structural Profiles: ASTM B 308/B 308M.
   e. Welding Rods and Bare Electrodes: AWS A5.10/A5.10M.
2. Steel Reinforcement: Manufacturer's standard zinc-rich, corrosion-resistant primer, complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.
   a. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
   b. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
   c. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.

E. **GLAZING**
1. Refer to specification section 08 80 00 – Glazing

F. **ENTRANCE DOORS**
1. Profile: Manufacturer's standard thermally-broken wide-stile door.
2. Door Construction: Welded, 1-3/4-inch overall thickness, with minimum 0.125-inch-thick, extruded-aluminum tubular rail and stile members.
3. Door Design: Wide stile; 5-inch nominal width.
4. Accessible Doors: Smooth surfaced for width of door in area within 10 inches above floor or ground plane.
5. Glazing Stops and Gaskets: Manufacturer's standard, snap-on, extruded-aluminum stops and preformed gaskets.
   a. Provide nonremovable glazing stops on outside of door.
6. Coordinate door hardware with door hardware supplier to ensure consistent keying

G. ACCESSORIES
1. Provide manufacturer's standard items for full and complete system installation including, but not limited to brackets, reinforcing components, shims, fasteners, flashing materials, bituminous coatings, gaskets, sealants, etc.
2. End Dams: Provide 16-gauge pre-formed end dams at all base of all sills. Finish to match storefront frames. Embed in sealant to create a watertight assembly, and to divert water away from jambs and onto sill flashing.
3. Thermally-broken aluminum frame filler: Provide thermally-broken aluminum frame filler at rough opening side of storefront framing head, jamb and sill framing members at all storefront openings.
4. Sealants: Install sealant with elastometric properties that can accommodate deflection and movement without compromised weather and watertightness

H. **FABRICATION**
1. Fabrication shall be in accordance with manufacturer's written instructions.
2. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
3. Entrance Doors: Reinforce doors as required for installing entrance door hardware.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Installation shall be in accordance with manufacturer's written installation instructions.
2. Metal Protection:
   a. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or applying sealant or tape, or by installing nonconductive spacers as recommended by manufacturer for this purpose.
   b. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
3. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within the system to exterior.
4. Set continuous sill members and flashing in full sealant bed.
5. Install components plumb and true in alignment with established lines and grades, and without warp or rack.

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DISCOVER/ ANALYZE | DEVELOP | **BID SET - NOT FOR CONSTRUCTION** | COMMIT | DELIVER

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS
05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
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PLAN NO. = **90-154**

DWG. LIST
SPECIFICATIONS

SHEET NO.
SPX-105

SECTION 08 80 00

GLAZING

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
a. Physical samples for Architect's approval:
1. Provide samples for all exposed products labeled with proposed location and application as referenced with Drawings.
2. Window film samples as indicated in Drawings (if applicable)
b. Shop drawings.
2. Submittals for Record
a. Manufacturer's product information for all products to be installed.
3. Allow 10 days minimum for Design review. Allow additional time if coordination with subsequent submittals is required.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Unless directed otherwise, subcontractor shall verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings.
D. **DESIGN CRITERIA**
1. Exterior glazing
a. Subcontractor is responsible for the following:
1. Ensuring compliance with design wind loads and thermal movement performance, as required by governing codes.
2. Confirming glazing requirements based on glass location and local jurisdiction requirements.
b. Thermal performance:
1. Maximum allowable U-factor: 0.24 (winter/summer) per NFRC 100.
2. Maximum allowable solar heat gain coefficient: 0.41 per NFRC 200.
c. Solar optical property shall comply with NFRC 300.
2. Safety glazing products: 16 CFR 1201.
E. WARRANTY
1. Laminated glass: 10 year warranty from date of Substantial Completion.
2. Coated glass: 5 year warranty from date of Substantial Completion.
3. Insulating glass: 10 year warranty from date of Substantial Completion.
4. Fire rated glazing: 5 year warranty from date of Substantial Completion.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Guardian.
2. Oldcastle.
3. Pilkington.
4. Viracon.
5. Vitro.
B. TEMPERED GLASS: ASTM C1040
1. Thickness: 1/4" unless noted otherwise.
2. Install tempered glass at all interior locations unless noted otherwise.
C. **STANDARD LAMINATED GLASS: ASTM C1172**
1. Thickness: 5/16" unless noted otherwise.
2. Provide at locations as indicated in Drawings.
D. **HIGH-IMPACT RESISTANCE LAMINATED GLASS: UL 972**
1. Provide UL 972 burglary-resistant rated assembly.
2. Provide at locations as indicated in Drawings.
E. **TRANSPARENT INSULATING GLASS UNITS: ASTM E2190**
1. Thickness: 1" at all exterior locations unless noted otherwise.
2. Provide tempered glass where required by code.
3. Where tempered glass is not required, provide heat-strengthened float glass.
4. Glazing supplier shall review contract documents to determine areas of differential shading and shall furnish heat-strengthened glass units as required.
5. Sealing system: dual seal with silicone secondary.
6. Warm-edge spacer: provide black Technoform I-Spacer warm-edge spacer.
7. Glass makeup: refer to Drawings.
a. Inboard and outboard lite: refer to Drawings
b. Air space: agron-filled.
F. **INSULATING GLASS SPANDREL UNITS**
1. Match standard insulating glass.
2. Provide opaque ceramic-frit coating and insulated aluminum back-panel.
3. Insulating glass spandrel units shall have tempered glass, both lites.
G. **FIRE-RESISTIVE GLAZING (FRG) AND FIRE-RESISTIVE SAFETY GLAZING PRODUCTS**
1. Fire Protection Rating: Ratings as indicated for the assembly in which glazing material is installed, and permanently labeled by a tested and inspecting agency acceptable to AHJ
2. Fire-Resistive, safety rated glazing material to be provided at all interior applications in full-vision temperature rise doors and windows
3. Subcontactors responsibility to confirm glazing requirements based on area, location and fire rating
4. One source manufacturer required
5. Manufacturers:
a. Safti First
H. **ACCESSORIES**
1. Glazing gaskets: molded or extruded gaskets of materials listed below to maintain watertight seal
a. Neoprene, ASTM C 864.
b. EPDM, ASTM C 864.
c. Silicone, ASTM C 1115.
d. Thermoplastic polyolefin rubber, ASTM C 1115.
2. Glazing sealants and tapes: provide sealants and tapes that are compatible with all system components to maintain performance requirements and warranties.
3. Provide all miscellaneous materials for full/compete system including, but not limited to cleaners, primers, sealers, setting blocks, spacers, edge blocks, perimeter insulation, etc.
4. Window film samples: Provide types as indicated in Drawings, if applicable, for Architect approval.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Protect all work until project completion. Apply cross streamers and/or non-marking tape over all newly installed glass.
3. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition in accordance with manufacturers written instructions.
B. **FIRE-RESISTIVE GLAZING (FRG) AND FIRE-RESISTIVE SAFETY GLAZING SCHEDULE**
1. **Glass Type FRG-45 MIN**
a. For glass lites in sidelites and transoms in 1-HR fire walls and 1-HR fire barriers
b. For glass lites in window assemblies in 1-HR fire walls and 1-HR fire barriers less than 25% of wall area
2. **Glass Type FRG-90 MIN**
a. For glass lites in doors in 2-HR fire walls and 2-HR fire barriers:
3. **Glass Type FRSG-90 MIN**
a. For glass lites in doors in 2-HR fire walls and 2-HR fire barriers
b. Impact Safety rating: CPSC 16 CFR 1201 Category II, ANSI Z97.1
4. **Glass Type FRSG-120 MIN**
a. For glass lites in window assemblies in 2-HR fire walls and 2-HR fire barriers Impact Safety rating: CPSC 16 CFR 1201 Category II, ANSI Z97.1
b. Fire-Resistive, safety rated glazing material for interior applications in full-vision temperature rise doors and windows

SECTION 09 29 00

GYPSUM BOARD

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
a. ***NONE REQUIRED***
2. Submittals for Record
a. Manufacturer's product information for all products to be installed.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
D. DESIGN CRITERIA
1. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
2. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.
E. **WARRANTY**
1. Duration: manufacturer's standard warranty for all products.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. American Gypsum Co.
2. CertainTeed Gypsum Inc.
3. G-P Gypsum.
4. National Gypsum Company.
5. USG Corporation.
B. **INTERIOR GYPSUM BOARD**
1. General requirements
a. Complying with ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
b. Long edges of all gypsum board products: tapered.
2. Regular Type:
a. Thickness: 5/8", unless noted otherwise.
3. Type X:
a. Thickness: 5/8", unless noted otherwise.
4. Ceiling Type: Manufactured to have more sag resistance than regular-type gypsum board.
a. Thickness: 5/8", unless noted otherwise.
b. Provide Type-X unless noted otherwise on drawings.
5. Moisture and Mold-Resistant Type: With moisture- and mold-resistant core and surfaces.
a. Core: 5/8", Type-X.
b. Install at the following locations:
1. All restrooms where gypsum board is required
2. All areas within 4'-0" of plumbing fixtures including sinks, water closets, urinals, lavatories, drains, etc.
6. Tile Backing Panels (ASTM C 1178/C 1178M)
a. Basis of Design Product: DensShield Tile Guard by G-P Gypsum
b. Glass-mat, water resistant backing board
c. Core: 5/8", Type X
d. Provide at all interior wall locations. Refer to drawings for more information.
7. Trim accessories (ASTM C 1047).
C. JOINT TREATMENT MATERIALS
1. Joint compound (ASTM C 475/C 475M).
2. Joint tape: paper.
3. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
a. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
b. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use drying-type, all-purpose compound.
c. Fill Coat: For second coat, use drying-type, all-purpose compound.
d. Finish Coat: For third coat, use drying-type, all-purpose compound.
D. **AUXILIARY MATERIALS**
1. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
2. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
3. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
4. Acoustical Sealant: See section 07 92 00 Joint Sealants
5. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing)
a. Unfaced batt fiber glass or mineral wool insulation to fully fill cavity
b. Approved manufacturers:
1. Owens Corning
2. Certainteed
c. Meets or exceeds ASTM C 665, Type I requirements
d. See Drawings for locations and sizes.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions, and as follows:
a. All interior gypsum board installations shall comply with ASTM C 840.
b. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
c. Wood Framing: Install gypsum panels over wood framing, with floating internal corner construction. Do not attach gypsum panels across the flat grain of wide-dimension lumber, including floor joists and headers. Float gypsum panels over these members, or provide control joints to counteract wood shrinkage.
2. Installing trim accessories
3. Control Joints: Install control joints according to ASTM C 840 and in specific locations as approved by Architect for visual effect. Align with edge of openings where possible while not exceeding manufacturer's maximum control spacing requirements.
a. Interior Trim: Install in the following locations:
b. Cornerbead: Use at outside corners.
c. Bullnose Bead: Use at outside corners.
d. LC-Bead: Use at exposed panel edges.
e. U-Bead: Use at exposed panel edges.
B. **FINISHING GYPSUM BOARD**
1. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
2. Prefill open joints, rounded or beveled edges, and damaged surface areas.
3. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
4. Gypsum Board Finish Levels: Finish panels to levels indicated below:
a. Level 1: Ceiling plenum areas, concealed areas, mechanical/utility spaces and where indicated.
b. Level 4: At panel surfaces that will be exposed to view, unless otherwise indicated.
Verify if finish level Level 5 finish is required

SECTION 09 51 23

ACOUSTICAL TILE CEILINGS (ACT)

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
a. Samples for each exposed finish.
2. Submittals for Record
a. Manufacturer's product information for all products to be installed.
b. Furnish extra materials of installed products that are packaged with protective covering for storage and identified with labels describing contents.
1. Furnish extra full-size tiles equal to 2% of quantity installed for each type, color, pattern, and size of ACT installed.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
D. **DESIGN CRITERIA**
1. Fire-Resistance Characteristics: ASTM E 119.
2. Surface-Burning Characteristics: Acoustical tiles complying with ASTM E 1264 for Class A materials, when tested per ASTM E 84.
a. Smoke-Developed Index: 450 or less.
E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **GENERAL**
1. Acoustical tile ceiling type: As indicated on Drawings.
2. Acoustical ceiling tiles: comply with ASTM E 1264.
3. Metal Suspension System Standard: comply with ASTM C 635.
4. Attachment Devices:
a. Furnish all attachment devices, including, but not limited to concrete anchors, powder-actuated fasteners, wire hangers, braces, ties, metal suspension systems, seismic struts, seismic clips, edge moldings, trim, etc for full/complete installation, as required by manufacturer's written installation instructions and all applicable codes, standards and regulations.
5. Refer to Drawings for approved manufacturers and products
B. **ACOUSTICAL CEILING TILE PRODUCTS**
1. Acoustical ceiling tile: as noted on drawings.
2. Grid: 9/16" grid, white.
3. Add specialty edge trim

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Protect all work until project completion.
3. Touchup, repair or replace damaged products prior to Substantial Completion. Clean and restore damaged surfaces to their original condition.

SECTION 09 65 13

RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL
A. SUBMITTALS
1. Submittals for Design Review
2. Physical Samples: For each product indicated in Drawings not less than 12" long for Architect's approval.
3. Submittals for Record
a. Manufacturer's product information for all products to be installed.
b. Furnish extra materials of installed products that are packaged with protective covering for storage and identified with labels describing contents.
1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage, and handling shall meet or exceed Manufacturer's written requirements.
2. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
a. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.
3. Source Limitations: Single-Source Manufacturer required
D. **DESIGN CRITERIA**
1. None
E. **WARRANTY**
1. Manufacturer's standard warranty

PART 2 - PRODUCTS
A. RESILIENT BASE
1. Resilient Base Standard: ASTM F 1861
a. Material Requirement: Type TV (vinyl, thermoplastic)
b. Manufacturing Method: Group I (solid, homogeneous)
2. Minimum Thickness: .125"
3. Outside Corners: Preformed
4. Inside Corners: Job formed
5. Refer to Drawings for approved manufacturers and products
B. ACCESSORIES
1. Provide all accessories for full/complete system installation including, but not limited to cap for cove resilient floor covering, reducer strip for resilient floor covering, transition strips, trowelable leveling and patching compounds, metal edge strips, and adhesives.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Preparation and installation shall be in accordance with Manufacturer's written installation instructions.
2. Protect all work until Project Completion.
3. Touchup, repair or replace damaged products prior to Substantial Completion. Clean and restore damaged surfaces to their original condition.

SECTION 09 65 16

RESILIENT SHEET FLOORING

PART 1 - GENERAL
A. SUBMITTALS
1. Submittals for Design Review
a. Physical Samples: For each product indicated in Drawings submitted in Manufacture's standard size but not less than 6"x9" for Architect's approval.
1. For head-welding bead, Manufacturer's standard-size samples, but not less than 9" long, of each color required.
2. Submittals for Record
a. Manufacturer's product information for all products to be installed.
b. Maintenance data.
c. Shop Drawings: Show locations of each type of resilient sheet flooring. Show widths, details, and locations of expansion, contraction, control, and isolation joints.
d. Furnish extra materials of installed products that are packaged with protective covering for storage and identified with labels describing contents.
1. Furnish extra resilient sheet flooring equal to 2% of quantity installed for each type, color, pattern, and size installed.
B. MOCK-UP
1. ***NONE REQUIRED***
C. QUALITY ASSURANCE
1. All materials, unless otherwise indicated, shall be manufactured by the approved Manufacturer listed in the specification and shall be installed in accordance with the current installation instructions provided by the Manufacturer
2. Delivery, storage, and handling shall meet or exceed Manufacturer's written requirements.
3. Source Limitations: Single-Source Manufacturer required
D. DESIGN CRITERIA
1. None
E. WARRANTY
1. Manufacturer's standard warranty

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. See Drawings for all products, finishes, style, patterns, and locations.
2. Substitutions: Not allowed
B. ACCESSORIES
1. Provide all accessories for full/complete system installation including, but not limited to cove and cap strips, trowelable leveling and patching compounds, and adhesives.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Preparation and installation shall be in accordance with Manufacturer's written installation instructions.
a. Subcontractor shall confirm proper moisture content per Manufacturer's recommended method. Provide mitigation if concrete moisture is above Manufacturer's limits.
2. Protect all work until Project Completion.
3. Touchup, repair or replace damaged products prior to Substantial Completion. Clean and restore damaged surfaces to their original condition.

SECTION 09 68 13

CARPETING

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
a. Physical samples of each type of carpet for verification.
2. Submittals for Record
a. Manufacturer's product information for all products to be installed.
b. Shop Drawings
1. Carpet tile type, color, and dye lot.
2. Pattern of installation.
3. Insets and borders.
4. Edge, transition, and other accessory strips.
5. Transition details to other flooring materials.
c. Maintenance data.
B. **MOCK-UP**
1. ***NONE REQUIRED***
C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Subcontractor shall provide one (1) carton each carpet type to Owner at Substantial Completion.
D. **DESIGN CRITERIA**
1. None.
E. **WARRANTY**
1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS
A. **ACCEPTABLE MANUFACTURERS:**
1. Approved products: Refer to drawings for carpet products and locations.
B. **INSTALLATION ACCESSORIES**
1. Provide all leveling/patching compounds, adhesives, transition strips, retainer strips, etc for full/complete installation as required by manufacturer's written installation instructions, and as required by field conditions.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
a. Subcontractor shall confirm proper moisture content per manufacturer's recommended method. Provide mitigation if concrete moisture is above manufacturer limits.
2. Protect all work until project completion.
3. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

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3201 SE 37th Street
Anamosa, Iowa 52205

BID SET - NOT FOR CONSTRUCTION

DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS
05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
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PLAN NO. = **90-154**

DWG. LIST
SPECIFICATIONS

SHEET NO.
SPX-106

SECTION 09 90 00

PAINTS AND COATINGS

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. Verification samples (paint drawdowns).
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Maintenance data.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.
2. Subcontractor shall provide one (1) full gallon of each color to Owner at substantial completion.
3. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

D. **DESIGN CRITERIA**
1. Painting and coating shall be in compliance with Painting and Decorating Contractors of America (PDCA) standards.

E. **WARRANTY**
1. Manufacturer's standard warranty.

PART 2 - PRODUCTS
A. ACCEPTABLE MANUFACTURERS
1. Sherwin Williams
2. PPG
3. Diamond Vogel

B. **FINISHES**
1. Colors and sheens as indicated on Drawings.

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
   a. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
      1. Concrete: 12 percent.
      2. Masonry (Clay and CMU): 12 percent.
      3. Wood: 15 percent.
      4. Gypsum Board: 12 percent.
   b. Protect all work until project completion.
   c. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

SECTION 10 28 00

TOILET & BATHROOM ACCESSORIES

PART 1 - GENERAL
A. **SUBMITTALS**
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Product schedule: identify locations using room designations shown on Drawings.
   c. Maintenance data, including installation and maintenance instructions.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed Manufacturer's written requirements.

D. **DESIGN CRITERIA**
1. Grab Bars: Install to withstand downward load of at least 250 lbf, when tested according to ASTM F 446.

E. **WARRANTY**
a. Special mirror warranty: 15 years from date of Substantial Completion.
b. Manufacturer's standard warranty on all other products.

PART 2 - PRODUCTS
A. **MANUFACTURERS**
1. Basis of Design: Bobrick Washroom Equipment, Inc.
2. Approved Alternative Manufacturers
   a. American Specialties, Inc.
   b. Bradley Corporation.

B. **PRODUCTS**
1. Grab Bar: Bobrick B-6806.
   a. Configuration and length as indicated on drawings and in full compliance with ADA.
2. Sanitary napkin disposal: Bobrick B-254.
3. Toilet paper (roll) dispenser: Bobrick B-265.
4. Mirror: Bobrick B-290.
   a. Frame: Stainless-steel angle, 0.05 inch thick.
   b. Corners: Welded and ground smooth.
   c. Provide Manufacturer's standard concealed hangers.
5. Deck-mounted soap dispenser: Bobrick B823.
6. Combination paper towel dispenser & waste receptacle: Bobrick B-43944.
   a. Mounting: Recessed, designed for nominal 4-inch wall depth.
7. Sanitary napkin vendor: Bobrick B-43500C.
8. Clothing hook: Bobrick B-682.
9. Shower curtain rod: B-6047.
   a. Include shower curtain: Bobrick B-204-2 (0.008" thick vinyl curtain with antibacterial agent)
   b. Include chrome-plated stainless steel curtain hooks.
10. Mop and broom/rag holders: B-239x34.
11. Utility Shelf: B-298x60
12. Folding Shower Seat: Bobrick B-5181.
13. Infant-changing station: Koala Kare KB300
14. Coat hooks: Hafele; 842.20.959
15. Underlavatory Guards
    a. Approved Manufacturers:
       1. Plumberex Specialy Products, Inc
       2. TCI Products
       3. Truebro, Inc
    b. Underlavatory Guard: Trubro; Lavguard2
16. Soap Dish: B-7680

PART 3 - EXECUTION
A. **INSTALLATION, GENERAL REQUIREMENTS**
1. Preparation and installation shall be in accordance with Manufacturer's written installation instructions.
2. Protect all work until project completion.

SECTION 10 44 13

FIRE EXTINGUISHER CABINETS

PART 1 - GENERAL
A. SUBMITTALS
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Maintenance data.

B. **MOCK-UP**
1. ***NONE REQUIRED***

C. **QUALITY ASSURANCE**
1. Delivery, storage and handling shall meet or exceed manufacturer's written requirements.

D. **DESIGN CRITERIA**
1. Coordinate sizes and locations of fire protection cabinets with wall depthsprior to ordering.

E. **WARRANTY**
1. Fire extinguisher cabinets: manufacturer's standard warranty.

PART 2 - PRODUCTS
A. **APPROVED MANUFACTURERS**
1. Basis of Design Product: Cosmopolitan Series as manufactured by J.L. Industries
2. Alterative Approved Manufacturers
   a. Ansul Incorporated; Tyco International Ltd.
   b. Kidde
   c. Larsen's Manufacturing Company
   d. Modern Metal Products, Division of Technico Inc
   e. Watrous Division, American Specialties Inc

B. FIRE EXTINGUISHER CABINET (FEC-1)
1. Semi-Recessed Cabinet:
   A. Square-edge trim with 1-1/2" backbend depth.
   B. Cabinet Material: steel, painted white epoxy.
   C. Door and Trim Material: #4 brushed stainless steel.
   D. Door Style: solid with pull.
   E. Door Lock: Cam lock that allows door to be opened during emergency by pulling sharply on door handle.
   F. Provide 'FIRE EXTINGUISHER' applied letters on cabinet door.
      1. Lettering Color: Red.
      2. Orientation: Vertical.
   G. Provide fire-rated cabinets where indicated in rated wall assemblies. Use only acceptable fire-rated construction materials that does not compromise or reduce required fire rating of assembly.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Preparation and installation shall be in accordance with manufacturer's written installation instructions.
2. Install fire protection cabinets in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction.
3. Protect all work until project completion.
4. Touchup, repair or replace damaged products prior to substantial completion. Clean and restore damaged surfaces to their original condition.

SECTION 10 44 16

FIRE EXTINGUISHERS

PART 1 - GENERAL
A. SUBMITTALS
1. Submittals for Design Review
   a. ***NONE REQUIRED***
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Operation and Maintenance data

B. MOCK-UP
1. ***NONE REQUIRED***

C. QUALITY ASSURANCE
1. Delivery, storage, and handling shall meet or exceed Manufacturer's written requirements.
2. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."
3. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.
4. Coordinate type and capacity of fire extinguishers with fire protection cabinets to ensure fit and function

D. DESIGN CRITERIA
1. None

E. WARRANTY
1. Fire extinguishers: 6 years from date of substantial completion.

PART 2 - PRODUCTS
A. APPROVED MANUFACTURERS
1. Basis of Design Product: J.L. Industries, Cosmic 5E
   a. Alternative Approved Manufacturers:
      1. Amerex Corporation
      2. Ansul Incorporated; Tyco International Ltd.
      3. Kidde Residential and Commercial Division; Subsidiary of Kidde PLC.
      4. Buckey Fire Equipment Company
      5. Fire End & Croker Corporation
      6. Larsen's Manufacturing Company.
      7. Potter Roemer LLC.

B. PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS
1. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B.
2. Provide mounting brackets for fire extinguishers not in cabinets.
3. See Drawings for all locations.

C. **MOUNTING BRACKETS**
1. Approved Manufacturers:
   a. Amerex Corporation.
   b. Ansul Incorporated; Tyco International Ltd.
   c. Badger Fire Protection; a Kidde company.
   d. Buckeye Fire Equipment Company.
   e. Fire End & Croker Corporation.
   f. J. L. Industries, Inc.; a division of Activar Construction Products Group.
   g. Larsen's Manufacturing Company.
   h. Potter Roemer LLC.
2. Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or red baked-enamel finish.
3. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.
   a. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface.
      1. Orientation: Vertical.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Preparation and installation shall be in accordance with Manufacturer's written installation instructions.
2. Fire Extinguisher Schedule
   a. FEC-1
      1. Type: Multi-purpose Dry-Chemical Extinguisher unit, Class A Hazard: 3A:40B:C nominal capacity
         A. Maximum floor area per extinguisher: 9,000sf.
         B. Maximum travel distance to extinguisher: 75-feet.
      2. Effectiveness (Rating): Class A, B, and C fires
      3. Construction: Heavy duty steel cylinder with metal valve and siphon tube, O-ring seal, replaceable valve stem seal, visual pressure gage, pull pin and upright squeeze grip.
      4. Finish: Factory powder-coated, Red

Verify size requirements with local municipality having jurisdiction
(example: West Des Moines ordinance for non-sprinkled buildings)

SECTION 12 24 13

ROLLER WINDOW SHADES

PART 1 - GENERAL
A. SUBMITTALS
1. Submittals for Design Review
   a. Shop Drawings: Submit shop drawings showing plans, elevations, sections, details, and attachments to other work. Submit with Window Treatment Schedule using same designations as indicated on Drawings.
   b. Physical Samples: For each product indicated in Drawings for Architect's approval.
2. Submittals for Record
   a. Manufacturer's product information for all products to be installed.
   b. Operation and Maintenance data

B. MOCK-UP
1. ***NONE REQUIRED***

C. QUALITY ASSURANCE
1. All materials, unless otherwise indicated, shall be manufactured by the approved Manufacturer listed in the specification and shall be installed in accordance with the current installation instructions provided by the Manufacturer
2. Delivery, storage, and handling shall meet or exceed Manufacturer's written requirements.
3. Source Limitations: Single-Source Manufacturer required
4. Unless directed otherwise, Subcontractor shall verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings.

D. DESIGN CRITERIA
1. Fire-Test-Response Characteristics: Provide products passing flame-resistance testing according to NFPA 701 by a testing agency acceptable to authorities having jurisdiction.
2. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
3. Comply with WCMA A 100.1

E. WARRANTY
1. Manufacturer's standard warranty

PART 2 - PRODUCTS
A. ROLLER SHADES
1. Acceptable Manufacturers
   a. Draper Inc.; Manual FlexShades.
   b. Hunter Douglas, Inc.; Hunter Douglas Window Fashions Division; Designer Roller Shades.
   c. Levolor; Levolor-Kirsch Window Fashions; a Newell Rubbermaid Company; Custom Roller Shades.
   d. Lutron Shading Solutions by VIMCO; Manual System.
   e. MechoShade Systems, Inc.; Mecho/5 System for Manual Shades.
2. Substitutions: Not allowed
3. See Drawings for all products, finishes, style, patterns, and locations.

B. FABRICATION
1. Product Description: Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.
2. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
3. Lifting Mechanism: With permanently lubricated moving parts.
4. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F:
   a. Shade Units Installed between (Inside) Jambs: Edge of shade not more than ¼ inch from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed.
5. Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting fascia, roller, and operating hardware and for hardware position and shade mounting method indicated.
6. Installation Fasteners: No fewer than two fasteners per bracket, fabricated from metal noncorrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.
7. Colors of Metal and Plastic Components Exposed to View: As indicated in Drawings.

PART 3 - EXECUTION
A. INSTALLATION, GENERAL REQUIREMENTS
1. Preparation and installation shall be in accordance with Manufacturer's written installation instructions.
2. Protect all work until Project Completion.
3. Touchup, repair or replace damaged products prior to Substantial Completion. Clean and restore damaged surfaces to their original condition.

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Anamosa, Iowa 52205

DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

BID SET - NOT FOR CONSTRUCTION

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS
05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
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PLAN NO. = **90-154**

DWG. LIST
SPECIFICATIONS

SHEET NO.
SPX-107

JONES CO FAMILY DENTISTRY
SITE PLAN
ANAMOSA, IOWA

OWNER:
BULLNOSE LLC
PO BOX 106
ANAMOSA, IA 52205

APPLICANT:
DOWNING CONSTRUCTION
509 EAST SCENIC VALLEY AVENUE
INDIANOLA, IA 50125
ATTN: CHRIS LYON

PROPOSED USAGE
OFFICE BUILDING

ENGINEER/SURVEYOR:
McCLURE ENGINEERING
1360 NW 121ST STREET
CLIVE, IOWA 50325
(515) 964-1229
tsmith@mcclurevision.com
ATTN: TRENT SMITH

BULK REGULATIONS:
C-2:

FRONT SETBACK	= 30'
SIDE SETBACK	= 10'
PARKING SETBACK	= 10'

SITE ADDRESS:
...

BUILDING SUMMARY:

TOTAL NUMBER OF BUILDINGS	= 1
TOTAL BUILDING S.F.	= 5,370± S.F.
INTENDED USE	= OFFICE BUILDING

PARKING:
REQUIRED = 19 STALLS (3 STALL PER 1,000 SQ. FT. GROSS BLDG. AREA)

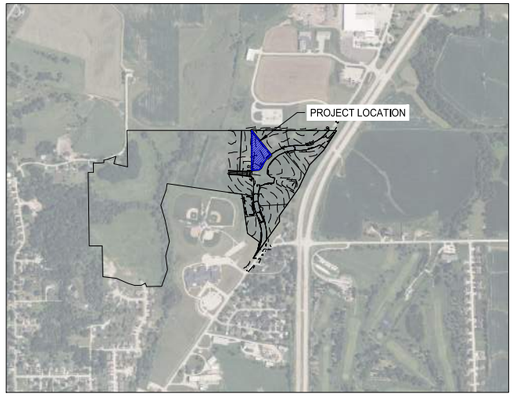
PROVIDED = 34 TOTAL STALLS
32 PATIENT/VISITOR STALLS (AND 2 PATIENT/VISITOR ADA STALLS)

LEGAL DESCRIPTION:
...

DEVELOPMENT SUMMARY:

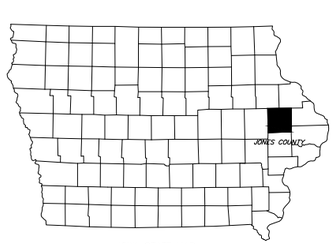
GROSS LAND AREA:	=76,352± S.F. (1.75± AC.)
PROJECT IMPERVIOUS AREA:	
PAVING AREA	=161,747± S.F. (39.9%)
BUILDING AREA	=60,486± S.F. (14.9%)
TOTAL	=222,233± S.F. (54.8%)
PROJECT OPEN SPACE:	
REQUIRED	= 40,496± S.F. (10.0%)
PROVIDED	= 182,729± S.F. (45.2%)

ZONING INFORMATION
- C-2

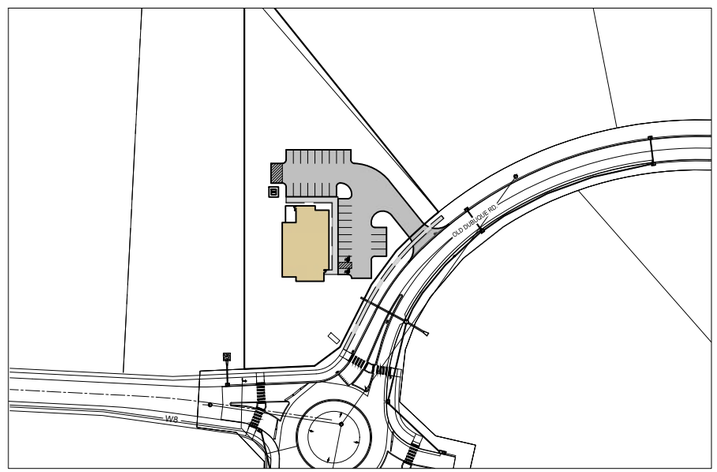


VICINITY MAP
NOT TO SCALE

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



IOWA STATE MAP
NO SCALE



NORTH

0 50' 100' 200'
GRAPHIC SCALE

ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 2022 IOWA STATEWIDE URBAN DESIGN STANDARD AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AS ACCEPTED BY THE CITY OF GRIMES AND THE GRIMES SUPPLEMENTAL SPECIFICATIONS EXCEPT WHERE ALTERED OR AMENDED BY THE CITY OF GRIMES.

Sheet List Table

SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
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03	GN-03	EXISTING CONDITIONS AND REMOVALS
04	SP-01	OVERALL LAYOUT
05	UT-01	UTILITY PLAN
06	GR-01	GRADING PLAN
07	EC-01	EROSION CONTROL PLAN
08	DT-01	DETAILS

LICENSED PROFESSIONAL ENGINEER
TRENT LUNDY SMITH 26452
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.

TRENT LUNDY SMITH, PE NO. 26452 DATE:

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2024

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PRELIMINARY

COVER SHEET

ANAMOSA
SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS
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ENGINEER	DRAWN BY
T. SMITH	R.CORONA
CHECKED BY	FIELD BOOK NO.
.	.
DRAWING NO.	SHEET NO.
GN-01	01 / 08

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GENERAL LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
	SS	SANITARY SEWER MAIN	Ⓢ	Ⓢ	SANITARY SEWER MANHOLE	Ⓑ	Ⓑ	BOLLARD (BUMPER POST)
SS	SS	SANITARY SEWER SERVICE	Ⓒ	Ⓒ	SANITARY SEWER CLEANOUT			ROADWAY SIGN
FM	FM	SANITARY SEWER FORCE MAIN	Ⓐ	Ⓐ	AIR RELEASE MANHOLE/DRAIN MANHOLE			MAILBOX
	ST	STORM SEWER MAIN OR CULVERT	Ⓓ	Ⓓ	STORM SEWER MANHOLE	Ⓦ	Ⓦ	WELL
ST		SECONDARY STORM SEWER MAIN	Ⓒ	Ⓒ	STORM SEWER CLEANOUT	12"	12"	DECIDUOUS TREE
ST		SECONDARY STORM SEWER SERVICE	Ⓘ	□	STORM SEWER INTAKE	12"	12"	EVERGREEN TREE
	W	WATER MAIN	Ⓑ	Ⓑ	STORM SEWER BEEHIVE INTAKE	24"	24"	SHRUB OR BUSH
	W	WATER SERVICE	>	>	FLARED END SECTION			TREE OR SHRUB LINE
E	E	UNDERGROUND ELECTRIC			FIRE HYDRANT	12"		STUMP
OHE	OHE	OVERHEAD ELECTRIC			WATER VALVE			MONITORING WELL
T		UNDERGROUND TELEPHONE			WATER VALVE MANHOLE	60"	60"	SOIL BORINGS
FO	FO	UNDERGROUND FIBER OPTIC			CURB STOP			FLAG POLE
TV	TV	UNDERGROUND CABLE TV			WATER METER MANHOLE			SATELLITE DISH
	G	GAS MAIN OR SERVICE			YARD HYDRANT			SLOPE INDICATORS
		CONTOUR LINES INTERMEDIATE			ELECTRIC MANHOLE / VAULT			CONTROL POINT
		CONTOUR LINES INDEX			ELECTRIC PEDESTAL / TRANSFORMER			BENCH MARK
		PROPERTY LINE / LOT LINE			OUTDOOR ELECTRIC POWER OUTLET			SECTION CORNER
		SECTION LINE			POWER POLE			IRON PIN SET
		EASEMENT			POWER POLE w/ STREET LIGHT			IRON PIN FOUND
		GUARD RAIL			STREET LIGHT POLE	DR-1		DRAWING NUMBER
X	X	FIELD FENCE			GUY WIRE			
O	O	CHAIN LINK FENCE			TRAFFIC SIGNAL			
□	□	WOODEN FENCE			TRAFFIC SIGNAL BOX			
		ROAD CENTERLINE			TRAFFIC SIGNAL MANHOLE / VAULT			
		GRADING LIMITS			RAILROAD CROSSING SIGNAL			
		CONSTRUCTION LIMITS			TELEPHONE MANHOLE / VAULT			
AG	AG	AG LINE			TELEPHONE PEDESTAL			
		WATERWAY FLOWLINE			CABLE TV MANHOLE / VAULT			
		TOP OF SLOPE			CABLE TV PEDESTAL			
		BOTTOM OF SLOPE			GAS VALVE			
X	X	SILT FENCE						

ABBREVIATIONS

T/S	TOP OF SLAB
BC	BACK OF CURB
TC	TOP OF CURB
FL	FLOWLINE
CL	CENTERLINE
C	CUT
F	FILL
S	OFFSET
TOP	TOP OF SLOPE
BOT	BOTTOM OF SLOPE
EP	EDGE OF PAVING

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION AND PROTECT ALL UTILITIES AND STRUCTURES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THE SATISFATION OF THE CITY AND THE OWNER.

2. CONTRACTOR TO CONFINE OPERATIONS TO PERMANENT AND TEMPORARY EASEMENTS AND DEVELOPER OWNED PROPERTY.

3. ALL TREES AND SHRUBS SHALL BE PROTECTED UNLESS DESIGNATED FOR REMOVAL IN THE PLANS.

4. CONTRACTOR SHALL SUBMIT ALL SUBGRADE AND PAVING MATERIAL TEST RESULTS TO THE PROJECT ENGINEER.

5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING AND MAINTAINING A SET OF RECORD DRAWINGS. RECORD DRAWINGS SHALL SHOW ALL CHANGES TO PLANS, AND REPRESENT THE AS-BUILT CONDITION. SUBMIT RECORD DRAWINGS TO ENGINEER PRIOR TO FINAL PAYMENT. ALL PIPE ENDS, UTILITY SERVICES AND CONDUIT ENDS SHALL BE MARKED WITH STEEL FENCE POSTS.

6. THE PLANS SHOW UTILITIES LOCATED WITHIN THE LIMITS OF THE WORK UNDER THIS CONTRACT. THE COMPLETENESS OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS IS IN NO WAY IMPLIED OR GUARANTEED. THE CONTRACTOR SHALL OBTAIN THE LOCATION OF THE UTILITIES AND SERVICES FROM THE VARIOUS PUBLIC UTILITY COMPANIES BEFORE BEGINNING ANY EXCAVATION AND WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO SAID UTILITIES AND SERVICES RESULTING FROM HIS OPERATIONS. ADDITIONAL COMPENSATION WILL NOT BE ALLOWED FOR THIS WORK AND SHALL BE CONSIDERED INCIDENTAL TO OTHER AREAS OF WORK.

7. AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENT AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT STORM LAKE TO OBTAIN APPLICABLE CITY PERMITS THAT MAY BE NECESSARY.

8. ALL CONSTRUCTION WITHIIN PUBLIC R.O.W./EASEMENTS, AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, SHALL COMPLY WITH STORM LAKE STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS AND THE STATEWIDE URBAN DESIGN SPECIFICATIONS.

9. RECONNECT ANY FIELD TILE THAT ARE INTERCEPTED DURING UTILITY CONSTRUCTION.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

11. ALL DIMENSIONS TO BACK-OF-CURB UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE FIELD VERIFIED.

12. PROVIDE 1" EXPANSION MATERIAL WHERE CONCRETE IS POURED AGAINST BUILDING OR STRUCTURES. SET PRE-MOLDED MATERIAL TIGHT AGAINST BUILDING AND/OR STRUCTURES TO ELIMINATE VOIDS.

13. ALL H/C RAMPS IN PUBLIC RIGHT OF WAY SHALL BE CONSTRUCTED IN ACCORDANCE W/THE ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG), AND IOWA CODE.

14. THE PAVEMENT CROSS SECTIONS USED IN THIS PLAN SET ARE SUBJECT TO CHANGE PENDING RESULTS OF ON-SITE GEOTECHNICAL INVESTIGATION.

UTILITY NOTES:

1. ALL UTILITIES ARE PRIVATE UNLESS NOTED OTHERWISE.

2. CONTRACTOR TO ADJUST ALL TOP OF CASTING ELEVATIONS WITHIN THE PROJECT LIMITS TO THE FINAL ELVATIONS SHOWN ON THE PLANS.

3. ALL UTILITY SERVICES, INCLUDING ELECTRIC, TELEPHONE, AND CABLE TO BE UNDERGROUND.

4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.

5. ALL CONNECTIONS TO EXISTING PUBLIC SEWERS SHALL BE CORE DRILLED.

SANITARY SEWER:
1. ALL SANITARY SEWER SEVICES SHALL BE SDR 23.5 IN ACCORDANCE WITH URBAN STANDARD SPECIFICATIONS.

2. MANHOLE STEPS ARE REQUIRED IN ALL SANITARY SEWER MANHOLES.

3. MANHOLE COVERS SHALL HAVE RAISED DIAMOND ROUGHNESS PATTERN.

STORM SEWER:
1. OWNER SHALL BE RESPONSIBLE FOR ALL ON-SITE PRIVATE STORM SEWER AND PRIVATE STORM WATER DETENTION / RETENTION AREAS.

2. ALL INTAKE CASTINGS SHALL HAVE PHASE 2 ENVIRONMENTAL SYMBOLOGY OR TEXT.

GRADING NOTES:

1. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.

2. ALL DIMENSIONS TO BACK-OF-CURB UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE FIELD VERIFIED.

3. CURB INTAKE RIM ELEVATIONS = PAVING TOP OF CURB ELEVATIONS.

4. CONTRACTOR TO ADJUST ALL TOP OF CASTING ELEVATIONS WITHIN THE PROJECT LIMITS TO THE FINAL ELEVATIONS SHOWN ON THE PLANS.

5. ALL SPOT ELEVATIONS ARE TO THE TOP OF FINISHED GRADE, UNLESS OTHERWISE NOTED.

6. ALL SLOPES IN UNPAVED AREAS SHALL BE GRADED TO DRAIN.

IOWA ONE CALL
CALL - BEFORE - YOU - DIG
800/292-8989

THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL NO LESS THAN 48 HRS. IN ADVANCE OF ANY DIGGING OR EXCAVATION.

WHERE PUBLIC 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 CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. 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 CAUSED BY SUCH WORK.

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PRELIMINARY

GENERAL LEGEND AND NOTES

ANAMOSA SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS
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ENGINEER	DRAWN BY
T. SMITH	R.CORONA
CHECKED BY	FIELD BOOK NO.
.	.
DRAWING NO.	SHEET NO.
GN-02	02 / 08

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EXISTING CONDITIONS AND REMOVALS

NORTH

0 15' 30' 60'
GRAPHIC SCALE

ANAMOSA SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS
-
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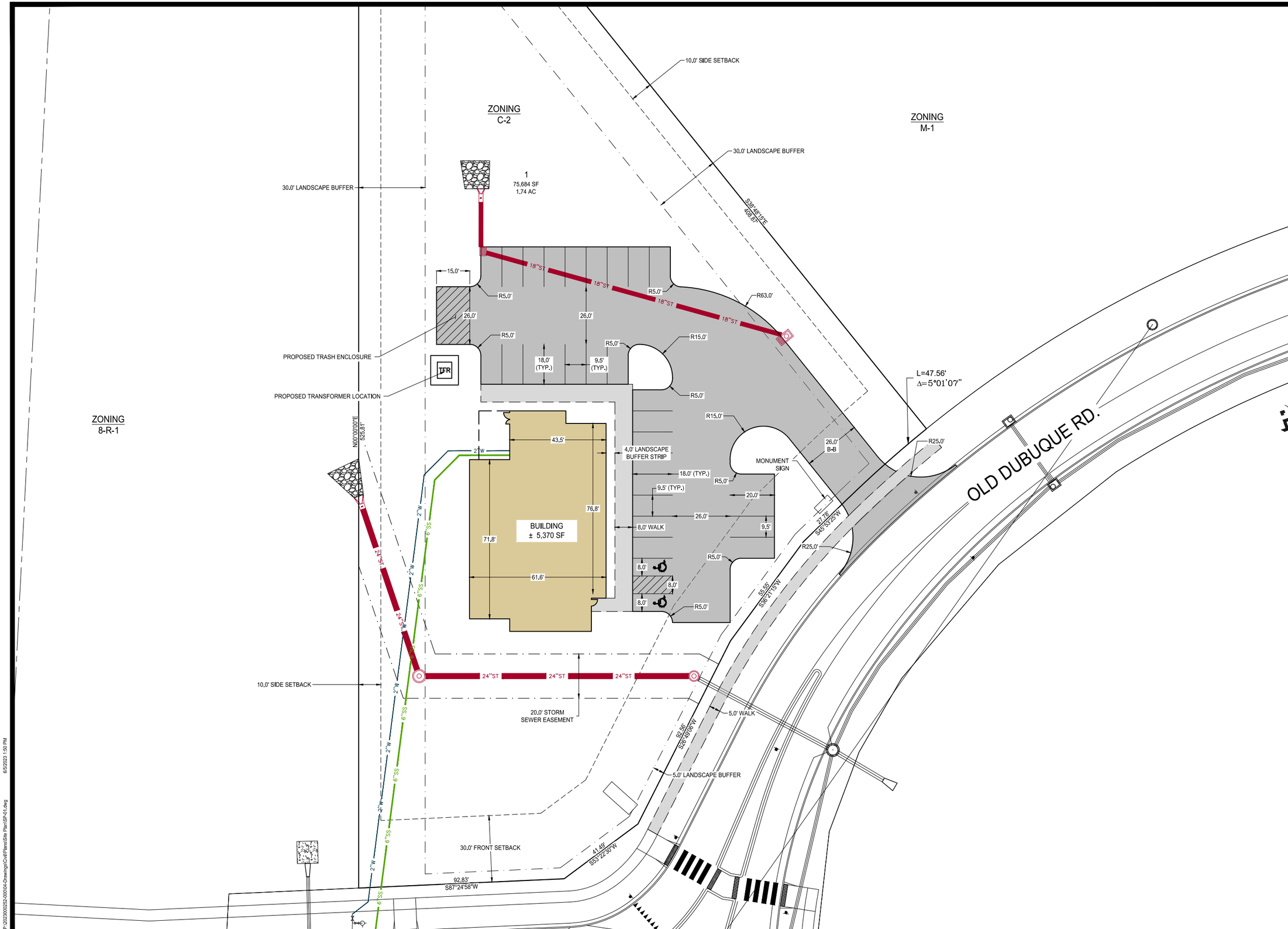

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PRELIMINARY

OVERALL LAYOUT

NORTH

0 10' 20' 40'
GRAPHIC SCALE

ANAMOSA
SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS

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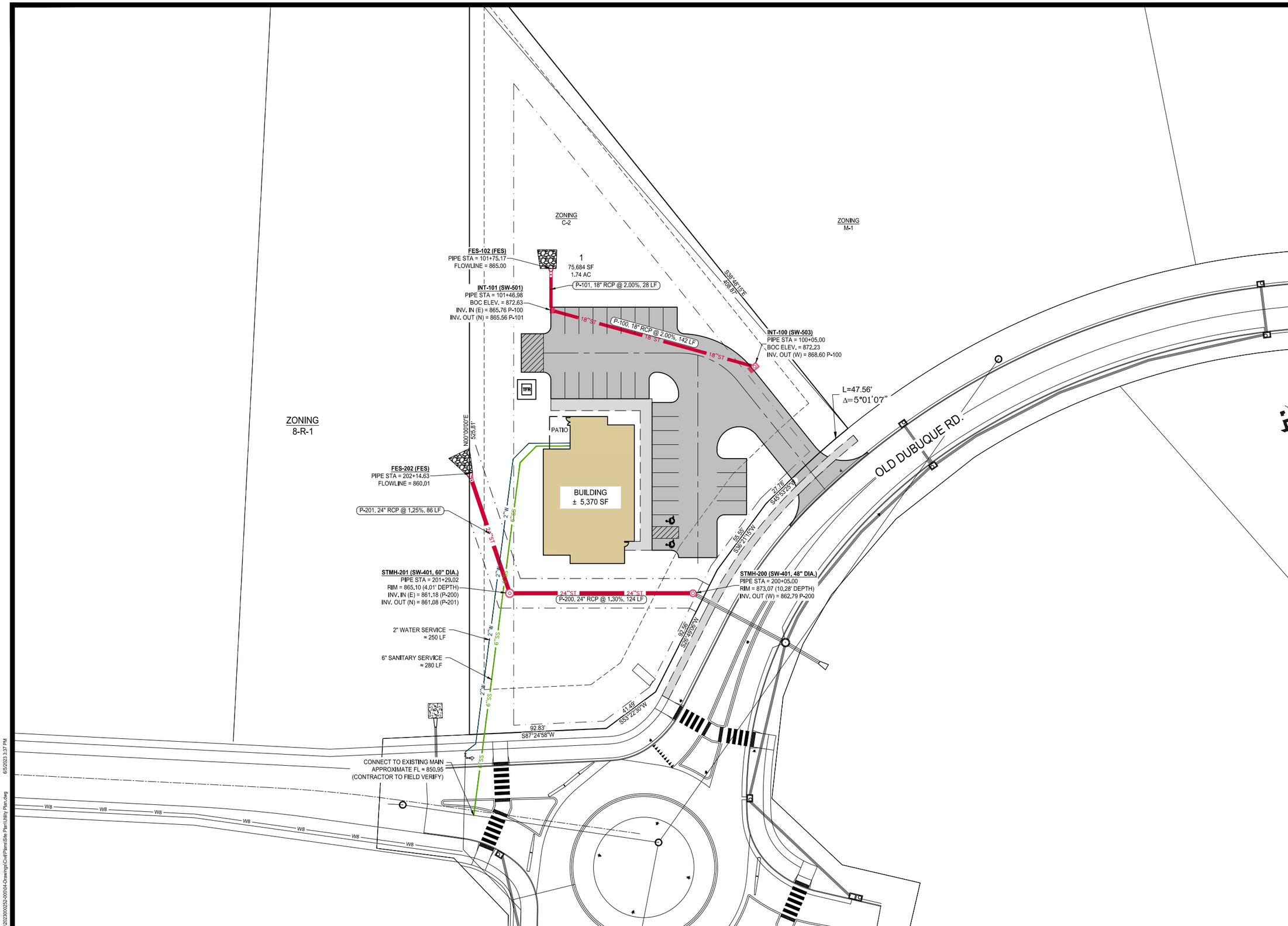

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PRELIMINARY

UTILITY PLAN

NORTH

0 15' 30' 60'
GRAPHIC SCALE

ANAMOSA
SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS

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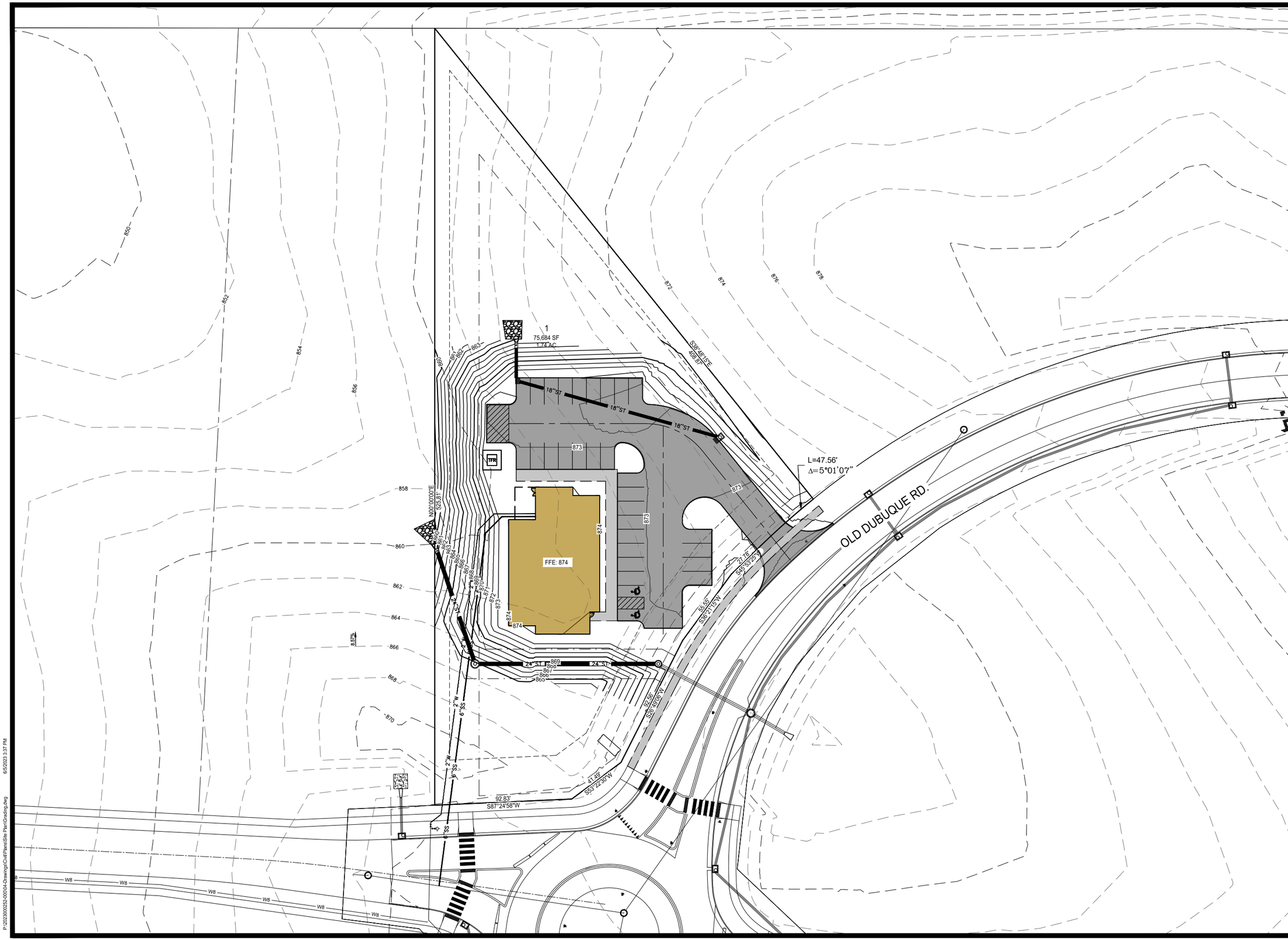

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GRADING PLAN

NORTH

0 15' 30' 60'
GRAPHIC SCALE

ANAMOSA SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS

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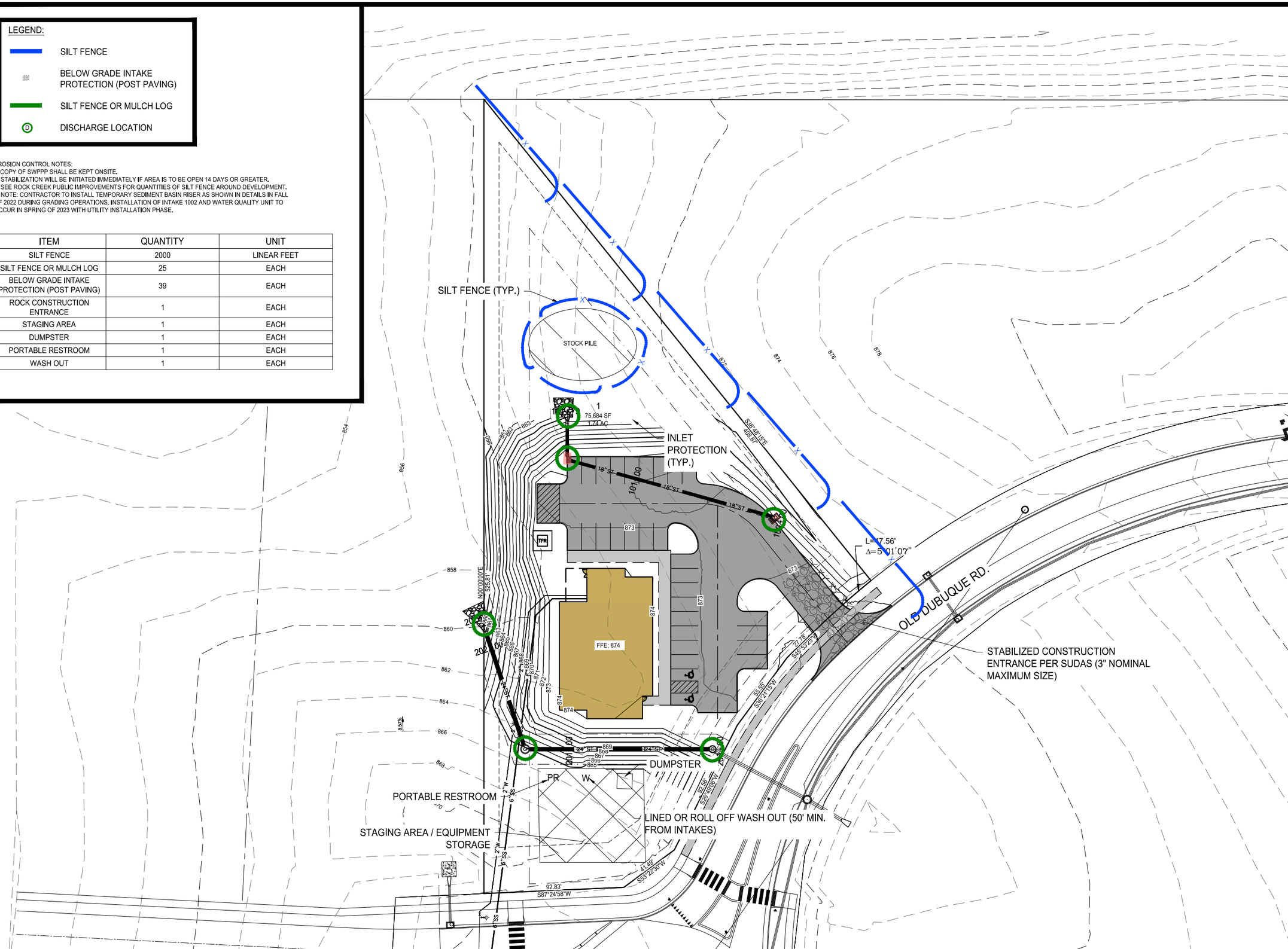
LEGEND:

- SILT FENCE
- BELOW GRADE INTAKE PROTECTION (POST PAVING)
- SILT FENCE OR MULCH LOG
- (D) DISCHARGE LOCATION

EROSION CONTROL NOTES:
1. COPY OF SWPPP SHALL BE KEPT ONSITE.
2. STABILIZATION WILL BE INITIATED IMMEDIATELY IF AREA IS TO BE OPEN 14 DAYS OR GREATER.
3. SEE ROCK CREEK PUBLIC IMPROVEMENTS FOR QUANTITIES OF SILT FENCE AROUND DEVELOPMENT.
4. NOTE: CONTRACTOR TO INSTALL TEMPORARY SEDIMENT BASIN RISER AS SHOWN IN DETAILS IN FALL OF 2022 DURING GRADING OPERATIONS. INSTALLATION OF INTAKE 1002 AND WATER QUALITY UNIT TO OCCUR IN SPRING OF 2023 WITH UTILITY INSTALLATION PHASE.

ITEM	QUANTITY	UNIT
SILT FENCE	2000	LINEAR FEET
SILT FENCE OR MULCH LOG	25	EACH
BELOW GRADE INTAKE PROTECTION (POST PAVING)	39	EACH
ROCK CONSTRUCTION ENTRANCE	1	EACH
STAGING AREA	1	EACH
DUMPSTER	1	EACH
PORTABLE RESTROOM	1	EACH
WASH OUT	1	EACH



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EROSION CONTROL PLAN

NORTH

0 15' 30' 60'
GRAPHIC SCALE

ANAMOSA SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

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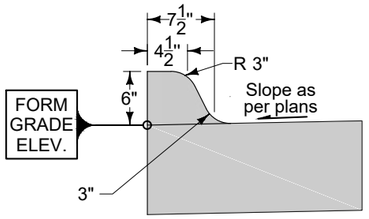
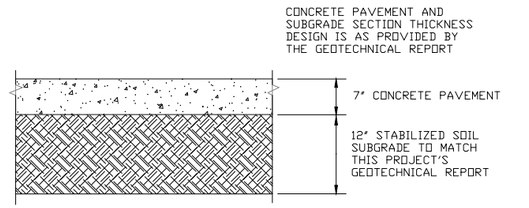


6" STANDARD CURB (SUDAS 7010.102)

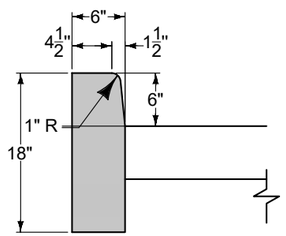
NOT TO SCALE



NOTE:
SUBGRADE SHALL BE PREPARED AND COMPACTED PER RECOMMENDATIONS IN THE GEOTECHNICAL REPORT FOR THIS PROJECT.

PAVING CROSS SECTION

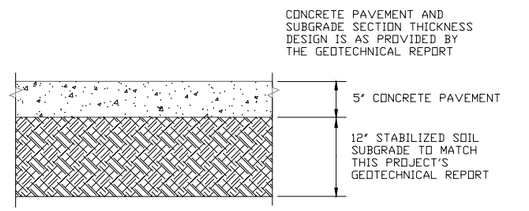
NOT TO SCALE



BEAM CURB*
*For short replacement sections, match existing curb profile

6" BEAM CURB (SUDAS 7010.102)

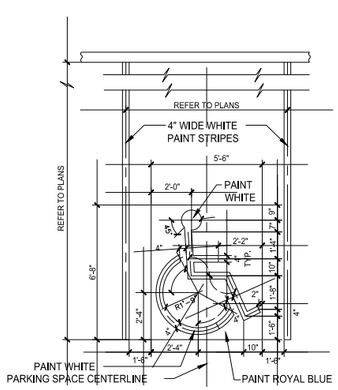
NOT TO SCALE



NOTE:
SUBGRADE SHALL BE PREPARED AND COMPACTED PER RECOMMENDATIONS IN THE GEOTECHNICAL REPORT FOR THIS PROJECT.

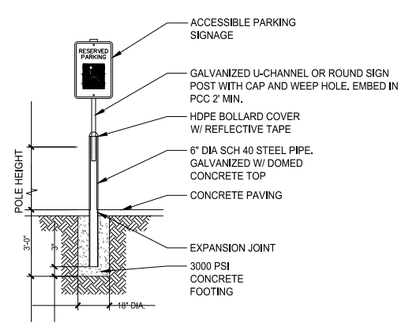
SIDEWALK CROSS SECTION

NOT TO SCALE



ACCESSIBLE PARKING SPACE PAINT DETAIL

NOTE: CENTER PAINTED SYMBOL IN THE MIDDLE OF PARKING SPACE OPENING.



ACCESSIBLE PARKING SIGN DETAIL

HANDICAPPED PARKING SPACE PAINT, ACCESSIBILITY AND SIGN DETAILS

NOT TO SCALE

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PRELIMINARY

DETAILS

NORTH

0 15' 30' 60'
GRAPHIC SCALE

ANAMOSA
SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS

ENGINEER: T. SMITH
DRAWN BY: R.CORONA
CHECKED BY: -
FIELD BOOK NO.: -
DRAWING NO.: DT-01
SHEET NO.: 08 / 08

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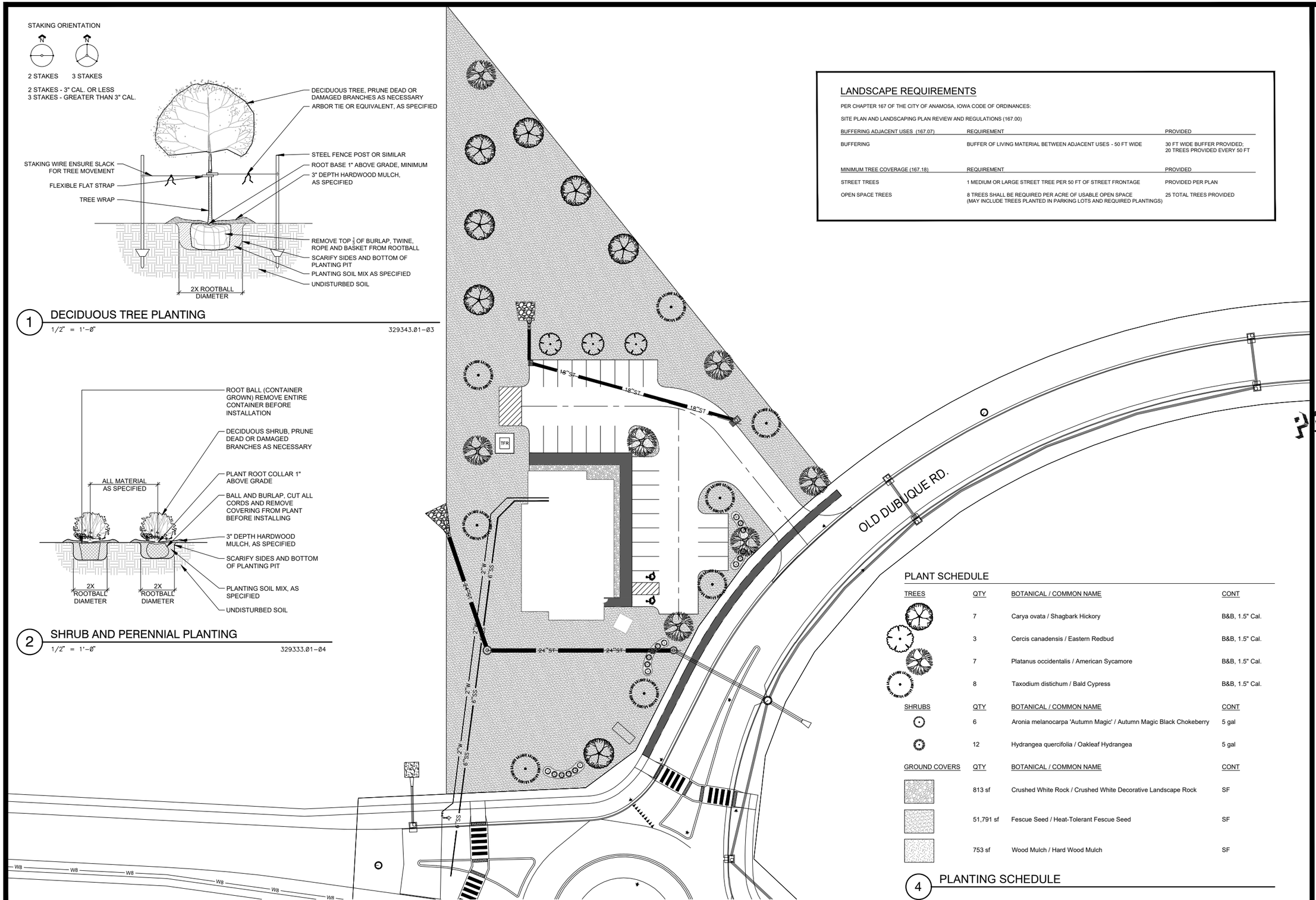
1 DECIDUOUS TREE PLANTING

1/2" = 1'-0" 329343.01-03

2 SHRUB AND PERENNIAL PLANTING

1/2" = 1'-0" 329333.01-04



3 LANDSCAPE PLAN

SCALE: 1" = 30'

LANDSCAPE REQUIREMENTS

PER CHAPTER 167 OF THE CITY OF ANAMOSA, IOWA CODE OF ORDINANCES:

SITE PLAN AND LANDSCAPING PLAN REVIEW AND REGULATIONS (167.00)

BUFFERING ADJACENT USES (167.07)	REQUIREMENT	PROVIDED
BUFFERING	BUFFER OF LIVING MATERIAL BETWEEN ADJACENT USES - 50 FT WIDE	30 FT WIDE BUFFER PROVIDED; 20 TREES PROVIDED EVERY 50 FT

MINIMUM TREE COVERAGE (167.18)	REQUIREMENT	PROVIDED
STREET TREES	1 MEDIUM OR LARGE STREET TREE PER 50 FT OF STREET FRONTAGE	PROVIDED PER PLAN
OPEN SPACE TREES	8 TREES SHALL BE REQUIRED PER ACRE OF USABLE OPEN SPACE (MAY INCLUDE TREES PLANTED IN PARKING LOTS AND REQUIRED PLANTINGS)	25 TOTAL TREES PROVIDED

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT
	7	Carya ovata / Shagbark Hickory	B&B, 1.5" Cal.
	3	Cercis canadensis / Eastern Redbud	B&B, 1.5" Cal.
	7	Platanus occidentalis / American Sycamore	B&B, 1.5" Cal.
	8	Taxodium distichum / Bald Cypress	B&B, 1.5" Cal.

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT
	6	Aronia melanocarpa 'Autumn Magic' / Autumn Magic Black Chokeberry	5 gal
	12	Hydrangea quercifolia / Oakleaf Hydrangea	5 gal

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT
	813 sf	Crushed White Rock / Crushed White Decorative Landscape Rock	SF
	51,791 sf	Fescue Seed / Heat-Tolerant Fescue Seed	SF
	753 sf	Wood Mulch / Hard Wood Mulch	SF

4 PLANTING SCHEDULE

McCLURE™
making lives better
1360 NW 121ST. Street
Clive, Iowa 50325
515-964-1229
fax 515-964-2370

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PRELIMINARY

LANDSCAPE PLAN

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ANAMOSA
SITE PLAN

ANAMOSA, IOWA
2023000252-000
JUNE 05, 2023

REVISIONS

ENGINEER T. SMITH
DRAWN BY R.CORONA
CHECKED BY
FIELD BOOK NO.
DRAWING NO. LS-01
SHEET NO. 08 08

DESIGN CODES & LOADS:

THE STRUCTURAL DESIGN OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE "2018 INTERNATIONAL BUILDING CODE" (IBC). "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE/SEI 7-16). AND APPLICABLE REFERENCED STANDARDS. ALL LOADS REQUIRED FOR DESIGN BY OTHERS AND NOT LISTED BELOW SHALL BE IN ACCORDANCE WITH THESE REQUIREMENTS.

OCCUPANCY CATEGORY: "II"

ROOF LIVE LOADS:
- GROUND SNOW — Pg = 30 psf
- EXPOSURE FACTOR — Ce = 1.0
- IMPORTANCE FACTOR — I = 1.0
- THERMAL FACTOR — Ct = 1.0
- MINIMUM ROOF SNOW LOAD — Pf = 25 psf

*DRIFTING & UNBALANCED LOADS SHALL BE IN ACCORDANCE WITH ASCE/SEI 7 CALCULATED WITH Pf AND Pg SPECIFIED

FLOOR LIVE LOADS:
- SLAB ON GRADE — 100 psf

WIND LOADS:
- ULTIMATE WIND SPEED (3 SEC GUST) — 115 MPH
- IMPORTANCE FACTOR — I = 1.0
- EXPOSURE CATEGORY — C
- INTERNAL PRESSURE COEFFICIENT — ± 0.18

COMPONENT & CLADDING PRESSURES (ULTIMATE)

LOCATION	INTERIOR ZONES	END ZONES (a = 6 ft)	CORNER ZONES (a = 6 ft)
ROOFS	- 30 psf	- 33 psf	- 37 psf
WALLS	± 30 psf	± 35 psf	N/A

SEISMIC LOADS:
- SITE CLASS — D
- DESIGN CATEGORY — B
- IMPORTANCE FACTOR — I = 1.0
- MAPPED SPECTRAL RESPONSE COEFFICIENTS — S/S = 0.072, S/1 = 0.055
- DESIGN SPECTRAL RESPONSE COEFFICIENTS — S/DS = 0.077, S/D1 = 0.088
- SEISMIC FORCE RESISTING SYSTEM — BEARING WALLS - WOOD SHEAR WALLS
- ANALYSIS PROCEDURE — EQUIVALENT LATERAL FORCE PROCEDURE (ELF)

GENERAL NOTES:

ELEVATIONS NOTED THUS +(12'-8") ARE TO TOP OF SLABS, BEAMS OR OTHER STRUCTURAL FEATURES WITH REFERENCE TO THE FINISHED FIRST LEVEL FLOOR SLAB = (0'-0").

FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO FABRICATION AND/ OR CONSTRUCTION OF ANY ITEMS. REPORT ANY DISCREPANCIES TO ARCHITECT AND ENGINEER.

STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH SITE, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND BETWEEN DRAWINGS AND SPECIFICATIONS. REPORT ANY DISCREPANCIES AND/ OR INTERFERENCE PROBLEMS TO ARCHITECT AND ENGINEER.

VERIFY SIZE AND LOCATION OF ALL OPENINGS OR INSERTS AS REQUIRED BY MECHANICAL, ELECTRICAL OR PLUMBING CONTRACTORS. ANY OPENINGS OR INSERTS SHOWN ON STRUCTURAL DRAWINGS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FRAMING.

NO BEAMS, JOISTS, COLUMNS OR SLABS SHALL BE FIELD CUT OR MODIFIED WITHOUT THE STRUCTURAL ENGINEER'S WRITTEN APPROVAL.

SHOP DRAWINGS, MIX DESIGNS, PRODUCT DATA, AND CALCULATIONS SCHEDULED BELOW SHALL BE SUBMITTED FOR APPROVAL OF ALL STRUCTURAL COMPONENTS PRIOR TO FABRICATION AND/ OR CONSTRUCTION. SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

1. CONCRETE & REINFORCEMENT
   - A. CONCRETE MIX DESIGN
   - B. REINFORCING STEEL DRAWINGS
   - C. SLAB-ON-GRADE JOINT LAYOUT
2. STRUCTURAL STEEL
   - A. ANCHOR BOLT LAYOUT
   - B. ERECTION & PIECE DRAWINGS FOR FRAMING
3. WOOD TRUSSES
   - A. STRUCTURAL CALCULATIONS
   - B. TRUSS LAYOUT AND PROFILES

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

CONTRACTOR IS RESPONSIBLE TO CHECK SHOP DRAWINGS, ETC. PRIOR TO SUBMITTAL TO ARCHITECT OR ENGINEER. SHOP DRAWINGS NOT CHECKED WILL BE RETURNED. CONTRACTOR SHALL VERIFY DIMENSIONS, QUANTITIES, AND COORDINATE WITH ALL OTHER TRADES.

SPECIAL-INSPECTIONS & TESTING SCHEDULE:

A SPECIAL INSPECTION AND TESTING PROGRAM SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC AND THE PROJECT MANUAL.

A SPECIAL INSPECTION AND TESTING PROGRAM REVIEW MEETING IS REQUIRED PRIOR TO CONSTRUCTION. THE STRUCTURAL ENGINEER, SPECIAL INSPECTOR, CITY INSPECTOR, GENERAL CONTRACTOR, AND ALL SUBCONTRACTORS PERFORMING STRUCTURAL WORK SHALL BE IN ATTENDANCE.

THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE SPECIAL INSPECTION AND TESTING PROGRAM:

1. SPECIAL GRADING, EXCAVATION AND FILLING
   - A. SUBGRADE PREPARATION
   - B. VERIFY COMPACTION OF FILL MATERIAL
   - C. VERIFY DESIGN BEARING CAPACITY
   - D. EXPANSIVE SOIL CHARACTERISTICS
2. STEEL REINFORCEMENT
   - A. PLACEMENT INSPECTION
3. CONCRETE
   - A. AIR TESTS
   - B. SLUMP TESTS
   - C. CONCRETE TEMPERATURE
   - D. COMPRESSION TESTS
   - E. POST INSTALLED ANCHORS
4. BOLTS INSTALLED IN CONCRETE.
   - A. PRIOR TO AND DURING CONCRETE PLACEMENT
5. STRUCTURAL WELDING (PERIODIC VISUAL INSPECTIONS)
   - A. SINGLE PASS FILLET WELDS
6. HIGH STRENGTH BOLTING
   - A. ALL SNUG TIGHT
7. PLYWOOD SHEAR WALLS
   - A. FASTENING PATTERN
   - B. END WALL ANCHORS

AS PRESCRIBED IN SECTION 1704.2.5 OF THE IBC. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR STRUCTURAL STEEL FABRICATION PROVIDED THAT THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS AISC CERTIFIED.

CONSTRUCTION PROCEDURES & SAFETY REQUIREMENTS:

COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL LAWS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO.

THE STRUCTURAL CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION, UNLESS NOTED OR INDICATED OTHERWISE.

ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED.

PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS AND ALL OTHER PERSONS DURING CONSTRUCTION. PROVIDE ALL NECESSARY MEASURES TO AVOID EXCESSIVE STRESSES AND TO HOLD THE STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND HOISTS, GUYING, ETC.,.

SUPERVISE AND DIRECT THE WORK SO AS TO MAINTAIN SOLE RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.

OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER'S FIELD REPRESENTATIVES SHALL NOT INCLUDE ABOVE NOTED ITEMS.

FOUNDATIONS:

FOUNDATION DESIGN IS BASED ON ASSUMED NET ALLOWABLE BEARING PRESSURES LISTED AS FOLLOWS PER SECTION 1806 OF THE IBC:
- 2000 psf AT CONTINUOUS FOOTINGS
- 2000 psf AT ISOLATED FOOTINGS.

IF UNSUITABLE BEARING SOILS ARE FOUND (SEE SPECIAL INSPECTIONS), OVER-EXCAVATE NATIVE SOILS BELOW FOOTINGS AND FOUNDATIONS AND REPLACE WITH COMPACTED, ENGINEERED FILL AS REQUIRED BY GEOTECHNICAL ENGINEER. OVER-EXCAVATION AND BACKFILL PROCEDURE SHALL EXTEND 9" LATERALLY BEYOND EDGE OF FOOTING IN ALL DIRECTIONS FOR EACH FOOT OF OVER-EXCAVATION DEPTH.

FOOTING ELEVATIONS AND ALLOWABLE BEARING CAPACITIES ARE ESTIMATED PER THE IBC. BEARING CAPACITIES AND EXPANSIVE SOIL PROPERTIES SHALL BE FIELD VERIFIED BY THE GEOTECHNICAL ENGINEER AS PART OF THE SPECIAL INSPECTION PROGRAM. NOTIFY THE STRUCTURAL ENGINEER IF INADEQUATE CONDITIONS ARE ENCOUNTERED.

IN LIEU OF OVER-EXCAVATION BELOW FOOTINGS, A GROUND IMPROVEMENT SOLUTION MAY BE DESIGNED (AGGREGATE PIERS, ETC.) TO PROVIDE A COMPRABLE OR HIGHER BEARING CAPACITY TO THAT SHOWN ABOVE. IF THIS OPTION IS CHOSEN & DESIGNED FOR, THE FOUNDATION PLAN WILL NOTE THIS.

ALL FOOTINGS SHALL BE EXTENDED TO FROST DEPTH AND BEAR 3'-6" BELOW ACTUAL GRADE DURING WINTER CONSTRUCTION SITUATIONS. CONSULT STRUCTURAL ENGINEER FOR REINFORCEMENT REVISIONS.

ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS UNLESS NOTED OTHERWISE.

WALLS BACKFILLED ON ONE SIDE ONLY SHALL BE BRACED, UNTIL BACKFILL AND TOP AND BOTTOM SLABS ARE IN PLACE.

INSTALL ANCHOR RODS AND DOWELS FROM TOP OF FOUNDATIONS ACCURATELY. SET WITH TEMPLATES AND PROTECT FROM DAMAGE OR MOVEMENT. INSERTING RODS OR DOWELS INTO PARTIALLY SET CONCRETE IS PROHIBITED. CONTRACTOR MAY USE POST-INSTALLED ANCHOR RODS WITH APPROVED CONSTRUCTION ADHESIVE IN LIEU OF CASTINGIN PLACE AT NO ADDITIONAL COST. SUBMITTAL OF ANCHORS AND ADHESIVES IS REQUIRED PRIOR TO INSTALLATION AND SPECIAL INSPECTION IS TO BE PROVIDED BY THE CONTRACTOR.

PROVIDE SLEEVES FOR ALL PIPES, UTILITY LINES, AND OTHER PENETRATIONS THROUGH TRENCH FOOTINGS AND/ OR FOUNDATION WALLS. CORE DRILLING IS NOT PERMITTED.

REFER TO ARCHITECTURAL DRAWINGS FOR BRICK LEDGES IN CONCRETE FOUNDATION WALLS.

SLABS-ON-GRADE:

SLABS-ON-GRADE SHALL BE 4 INCHES THICK, UNLESS NOTED OTHERWISE. REINFORCE WITH 6x6-W2.9xW2.9 W.W.F. PLACED 2" BELOW TOP OF SLAB. WELDED WIRE FABRIC SHALL BE LAPPED TWO FULL PANELS AND TIED SECURELY.

SLABS-ON-GRADE SHALL BE PLACED ON 15 MIL VAPOR BARRIER OVER GRANULAR, DRAINAGE FILL. DRAINAGE FILL SHALL BE A MINIMUM OF 4 INCHES THICK. TEST SUBGRADE SOILS FOR EXPANSIVE SOIL CHARACTERISTICS AS PART OF THE SPECIAL INSPECTION PROGRAM WHEN GEOTECHNICAL ENGINEERING REPORT IS NOT AVAILABLE. NOTIFY STRUCTURAL ENGINEER IF INADEQUATE CONDITIONS ARE ENCOUNTERED AND FOLLOW RECOMMENDATIONS OF GEOTECHNICAL ENGINEER.

IF DELETERIOUS MATERIALS ARE FOUND DURING SPECIAL INSPECTIONS, PROVIDE A BUFFER LAYER OF LOW PLASTICITY SOIL BELOW SLABS-ON-GRADE AS DIRECTED BY GEOTECHNICAL ENGINEER PERFORMING SPECIAL INSPECTIONS ITEM #1. BUFFER LAYER INCLUDES DRAINAGE FILL. SEE GEOTECHNICAL REPORT FOR LOW PLASTICITY SOIL REQUIREMENTS.

THICKEN SLABS-ON-GRADE UNDER NON-BEARING MASONRY WALLS AND REINFORCE PER PLANS AND DETAILS.

SLABS-ON-GRADE SHALL BE SEPARATED FROM ALL WALLS, COLUMNS, AND OTHER VERTICAL SURFACES WITH EXPANSION JOINTS.

PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE 1/8" WIDE BY 1/4 OF THE SLAB THICKNESS. CUTTING OPERATIONS SHALL BE AS SOON AS POSSIBLE AFTER PLACING CONCRETE WITHOUT RAVELING EDGES.

CONTRACTOR SHALL SUBMIT PROPOSED JOINT LAYOUT FOR APPROVAL WHEN JOINTS ARE NOT SHOWN ON DRAWINGS. MAXIMUM SPACING OF JOINTS SHALL BE 30 TIMES THE SLAB THICKNESS IN ANY DIRECTION. JOINT LAYOUT SHALL FORM A REGULAR GRID PATTERN WITH JOINTS INTERSECTING AT 90 DEGREES.

CONSTRUCTION JOINTS IN SLABS-ON-GRADE SHALL BE AT CONTROL JOINT LOCATIONS AS IDENTIFIED ABOVE WHEN ENTIRE FLOOR SLAB IS NOT PLACED IN ONE SEQUENCE. SEE DETAILS FOR PLATE DOWEL REQUIREMENTS.

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DEPRESSIONS IN SLABS-ON-GRADE.

CONCRETE AND REINFORCEMENT:

CONCRETE WORK SHALL BE IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)" AND "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)" UNLESS NOTED OTHERWISE.

PROVIDE CONCRETE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c) AS SHOWN BELOW:
- FOOTINGS — 3,500 psi
- FOUNDATION WALLS — 4,000 psi
- ALL OTHER CONCRETE — 4,000 psi

PROVIDE CONCRETE WITH MAXIMUM WATER/CEMENT RATIO AS SHOWN BELOW:
- 3,500 psi — 0.50
- 4,000 psi — 0.45
- 5,000 psi — 0.40

CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR EACH CLASS OF CONCRETE TO ENGINEER FOR WRITTEN APPROVAL MINIMUM OF 14 DAYS PRIOR TO PLACING CONCRETE.

CONCRETE SHALL CONSIST OF THE FOLLOWING:
- PORTLAND CEMENT — ASTM C150, TYPE I/II
- NORMAL WEIGHT AGGREGATES — ASTM C33
- POTABLE WATER — ASTM C94

REPLACEMENT OF PORTLAND CEMENT WITH FLY ASH SHALL NOT EXCEED 15% OF ALL CEMENTITIOUS MATERIALS.

MAXIMUM AGGREGATE SIZE SHALL BE 1".

ALL CONCRETE EXPOSED TO EARTH OR WEATHER SHALL HAVE AN AIR CONTENT AT POINT OF PLACEMENT OF 4% TO 6%.

WATER REDUCING ADMIXTURES (PLASTICIZERS AND SUPER PLASTICIZERS) MAY BE USED WHEN INCLUDED IN THE APPROVED CONCRETE MIX DESIGN.

NO MATERIAL CONTAINING CALCIUM CHLORIDE, SALT OR ANTIFREEZE AGENTS IS PERMITTED FOR USE IN CONCRETE.

SLUMP SHALL BE 3" TO 5" MAXIMUM FOR CONCRETE MIXES WITHOUT WATER REDUCING ADMIXTURES AND 6" TO 8" MAXIMUM WHEN WATER REDUCING ADMIXTURES ARE INCLUDED IN THE MIX DESIGN. REFER TO SPECIFICATIONS.

HOT WEATHER CONCRETE OPERATIONS SHALL BE IN ACCORDANCE WITH ACI 305.

COLD WEATHER CONCRETE OPERATIONS SHALL BE IN ACCORDANCE WITH ACI 306.

REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315), UNLESS DETAILED OR NOTED OTHERWISE.

REINFORCING SHALL CONFORM TO THE FOLLOWING:
- DEFORMED BARS — ASTM A615, GRADE 60
- WELDED DEFORMED BARS — ASTM A706, GRADE 60
- WELDED WIRE FABRIC (MATS ONLY) — ASTM A185

REINFORCING STEEL SHALL BE SECURELY WIRED IN PLACE AND SUPPORTED PRIOR TO PLACING CONCRETE.

LAP ALL REINFORCING SPLICES THE GREATER OF 48 BAR DIAMETERS OR 2'-0" IN FOOTINGS & FOUNDATIONS AND SLABS-ON-GRADE UNLESS NOTED OTHERWISE. REINFORCING SPLICES AT ALL OTHER LOCATIONS SHALL HAVE CLASS B TENSION SPLICES.

PROVIDE CORNER BARS AT ALL INTERSECTIONS IN WALLS AND FOOTINGS. LAP 2'-0" WITH HORIZONTAL BARS IN EACH DIRECTION. MATCH SIZE AND SPACING OF HORIZONTAL BARS.

PROVIDE (2) #5 EACH SIDE OF FRAMED OPENINGS IN WALLS. EXTEND 2'-0" BEYOND OPENING EDGES. PROVIDE #5 DIAGONAL BARS X 48" IN CORNERS.

PROVIDE KEY WAYS IN CONCRETE WALLS AT CONSTRUCTION JOINTS. KEY WAYS SHALL BE 1 1/2" WIDE X 1/2" DEEP UNLESS NOTED OTHERWISE. EXTEND REINFORCING THROUGH JOINTS.

SPLICES IN VERTICAL REINFORCING ARE NOT PERMITTED, UNLESS NOTED OTHERWISE.

CONCRETE COLUMNS IN WALLS SHALL BE BUILT SIMULTANEOUSLY WITH THE WALLS.

SLEEVES IN CONCRETE BEAMS ARE NOT PERMITTED EXCEPT WHERE NOTED OR DETAILED ON DRAWINGS. OBTAIN WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER FOR SLEEVES AT OTHER LOCATIONS.

CONSTRUCTION JOINTS IN CONCRETE BEAMS ARE NOT ALLOWED EXCEPT AT LOCATIONS OF MINIMUM SHEAR APPROVED BY THE STRUCTURAL ENGINEER.

PROVIDE MINIMUM CONCRETE COVER OVER REINFORCING AS FOLLOWS:
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
EXPOSED TO EARTH OR WEATHER = 2"
NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH THE GROUND = 2"

PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES OF CONCRETE.

WOOD FRAMING:

ALL WOOD CONSTRUCTION TO BE DONE ACCORDING TO CHAPTER 23 OF THE IBC AND NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS 2018).

WALL STUD FRAMING: PROVIDE LUMBER AND MATERIALS MEETING OR EXCEEDING THE FOLLOWING STANDARDS OF QUALITY AND MINIMUM BASE DESIGN VALUES: VISUALLY GRADED DOUGLAS FIR-LARCH OR SPRUCE-PINE-FIR NO. 2 OR BETTER.
- 875 psi EXTREME FIBER STRESS IN BENDING (SINGLE): Fb
- 1,150 psi COMPRESSION PARALLEL TO GRAIN: Fc
- 1,400,000psi MODULUS OF ELASTICITY: E

SAWN LUMBER HEADERS, BEAMS, AND JOISTS: PROVIDE LUMBER AND MATERIALS MEETING OR EXCEEDING THE FOLLOWING STANDARDS OF QUALITY AND MINIMUM BASE DESIGN VALUES: VISUALLY GRADED DOUGLAS FIR-LARCH NO. 2 OR BETTER
- 900 psi EXTREME FIBER STRESS IN BENDING: Fb
- 1,350 psi COMPRESSION PARALLEL TO GRAIN: Fc
- 1,600,000psi MODULUS OF ELASTICITY: E

ALL HEADERS, BEAMS, AND JOISTS SHALL BE FREE FROM SPLITS, CHECKS AND SHAKES.

PRESERVATIVE PRESSURE TREATED FRAMING LUMBER: PROVIDE LUMBER AND MATERIALS MEETING OR EXCEEDING THE FOLLOWING STANDARDS OF QUALITY AND MINIMUM BASE DESIGN VALUES: VISUALLY GRADED SOUTHERN PINE NO. 2 OR BETTER:
- 975 psi EXTREME FIBER STRESS IN BENDING (SINGLE): Fb
- 1,450 psi COMPRESSION PARALLEL TO GRAIN: Fc
- 1,600,000psi MODULUS OF ELASTICITY: E

ALL PRESERVATIVE PRESSURE TREATED LUMBER SHALL CONFORM TO AWPA STANDARDS.

LAMINATED VENEER LUMBER (LVL) HEADERS AND BEAMS: PROVIDE LUMBER AND MATERIALS MEETING OR EXCEEDING THE FOLLOWING STANDARDS OF QUALITY AND MINIMUM BASE DESIGN VALUES:
- 2,600 psi FLEXURAL STRESS: Fb
- 2,510 psi COMPRESSION PARALLEL TO GRAIN: Fc
- 1,900,000 psi MODULUS OF ELASTICITY: E
- 118,750 psi SHEAR MODULUS OF ELASTICITY: G

ALL FASTENERS TO BE GALVANIZED IN AREAS DIRECTLY EXPOSED TO EXTERIOR ELEMENTS OR PRESERVATIVE PRESSURE TREATED MATERIAL.

ALL NAILED AND GLUED MEMBERS TO BE IN CLEAN AND DRY CONDITION PRIOR TO GLUING. ADHESIVE SHALL COMPLY WITH ANSI/AITC A190.1-1983.

PLYWOOD AND BUILT UP BEAMS TO BE IN COMPLIANCE WITH IBC STD.#25-18.

ALL WOOD FRAMING MEMBERS TO HAVE A MOISTURE CONTENT NOT TO EXCEED 19%.

ALL ROOF AND WALL SHEATHING TO BE 5/8" APA RATED UNLESS NOTED OTHERWISE.

SHEATHING ON WALLS TO HAVE STAGGERED VERTICAL JOINTS.

ALL MANUFACTURED FLOOR JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

PROVIDE SOLID WOOD BLOCKING IN FLOOR SYSTEM WHERE CONCENTRATED LOADS OCCUR SO AS TO TRANSFER LOAD TO FRAMED WALL, BEAM, HEADER, OR FOUNDATION WALL BELOW.

NAILS AND STAPLES SHALL CONFORM TO REQUIREMENTS OF ASTM F 1667.

CONNECTIONS AND FASTENERS: NUMBER AND SIZE SHALL NOT BE LESS THAN THAT SET FORTH IN TABLE 2304.10.1 OF THE IBC

ALL LAG SCREW CONNECTIONS TO BE PRE-DRILLED.

ALL GIRDERS, BEAMS, AND HEADERS TO BE SUPPORTED BY A MIN. OF 3 STUDS (2 CRIPPLE, 1 KING)

ALL MULTI-PLY MEMBERS ARE TO BE CONNECTED TOGETHER ACCORDING TO MANUFACTURER'S SPECIFICATIONS TO ACT AS ONE SOLID MEMBER.

PREFABRICATED WOOD TRUSSES:

ALL TRUSS DESIGN TO BE DONE ACCORDING TO CHAPTER 23 OF THE IBC.

DESIGN TRUSSES UNDER THE DIRECT PERSONAL SUPERVISION OF A PROFESSIONAL ENGINEER EXPERIENCED IN DESIGN OF THIS WORK AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

DESIGN ROOF TRUSSES FOR THE FOLLOWING LOADS:
TOP CHORD LIVE = 30 PSF*
TOP CHORD DEAD = 10 PSF
BOTTOM CHORD DEAD = 10 PSF
*DRIFTING & UNBALANCED LOADS SHALL BE IN ACCORDANCE WITH ASCE/SEI 7 OR AS SHOWN ON DRAWINGS.

TRUSS LAYOUT IS SCHEMATIC ONLY. TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN (INCLUDING SPACING) OF ALL TRUSSES AND SHALL SUBMIT SHOP DRAWING (SEALED BY A REGISTERED ENGINEER) FOR APPROVAL BY BUILDER.

ROOF SHEATHING: APA RATED SHEATHING EXP 1, 24/0 SPAN RATING.

FLOOR SHEATHING: 3/4" T&G APA RATED FLOOR SHEATHING, 24"O.C. SPAN RATING (GLUE AND NAIL TO FLOOR FRAMING MEMBERS.)

ALL CONNECTOR PLATES SHALL BE IN COMPLIANCE WITH THE TRUSS PLATE INSTITUTE SPECIFICATION TPI-91.

DO NOT SUSPEND MECHANICAL OR ELECTRICAL ITEMS FROM LOWER CHORD OF TRUSS.

WIND CLIPS TO BE SIMPSON "H-2.5" TYPE HURRICANE CLIPS. UNLESS REQ'D OTHERWISE BY PROJECT ENGINEER OR MANUFACTURER.

PROVIDE WOOD TRUSSES ABLE TO SUSTAIN THE STATED LOADS FOR THE SPANS, PROFILES AND ARRANGEMENT SHOWN ON DRAWINGS.

FLOOR TRUSS TO BE PRESENT UNDER INTERIOR PARTITION WALLS.

SERVICEABILITY: TRUSS DEFLECTIONS SHALL NOT EXCEED THE LIMITATIONS OF SECTION 1604.3.1 OF THE IBC. UNLESS NOTED OTHERWISE ON DRAWINGS.

STRUCTURAL STEEL:

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "STEEL CONSTRUCTION MANUAL (AISC 325)" AND "SPECIFICATIONS FOR STEEL BUILDINGS (AISC 360)" UNLESS NOTED OTHERWISE.

HIGH STRENGTH BOLTING SHALL CONFORM TO RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", LATEST EDITION.

WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE" (AWS D1.1) CURRENT EDITION.

ALL STRUCTURAL STEEL SHALL MEET THE MATERIAL REQUIREMENTS AS SHOWN BELOW:

WIDE FLANGE SECTIONS	Fy = 50 ksi	ASTM A992
CHANNELS PLATES & ANGLES	Fy = 36 ksi	ASTM A36
STRUCTURAL PIPE	Fy = 35 ksi	ASTM A53, GRADE B
STRUCTURAL TUBE - RECTANGULAR	Fy = 46 ksi	ASTM A500, GRADE B
STRUCTURAL TUBE - ROUND	Fy = 42 ksi	ASTM A500, GRADE B
HIGH STRENGTH BOLTS		ASTM A325, TYPE 1
ANCHOR RODS	Fy = 36 ksi	ASTM F1554

ALL SHOP CONNECTIONS SHALL BE WELDED, AND FIELD CONNECTIONS SHALL BE BOLTED, UNLESS NOTED OTHERWISE.

BOLTED CONNECTIONS SHALL BE SNUG TIGHTENED JOINTS WITH BEARING TYPE THREAD CONDITIONS (TYPE N) MINIMUM SIZE OF BOLTS SHALL BE 3/4" DIAMETER, AND EACH CONNECTION SHALL HAVE MINIMUM OF 2 BOLTS. WITH ONE HARDENED WASHER PER BOLT. SHORT-SLOTTED HOLES TO ACCOUNT FOR FIELD TOLERANCE IS ACCEPTABLE, EXCEPT @ MOMENT CONNECTIONS & OTHER LOCATIONS IDENTIFIED.

WHEN STEEL BEAM CONNECTIONS ARE NOT DETAILED, PROVIDE CONNECTIONS CAPABLE OF SUPPORTING THE REACTIONS INDICATED OR 50% OF THE ALLOWABLE UNIFORM LOAD AS SHOWN IN AISC "MAXIMUM UNIFORM LOAD TABLES". REACTIONS, WHEN SHOWN, ARE SERVICE LEVEL LOADS.

UNLESS NUMBER OF BOLTS IS SPECIFICALLY CALLED OUT, DETAILS OF BOLTED CONNECTIONS ARE NOT INTENDED TO SHOW EXACT NUMBER OF BOLTS, BUT ARE INTENDED TO BE SYMBOLIC ONLY. PROVIDE NUMBER OF BOLTS TO SUPPORT REQUIRED REACTION.

ALL WELDING TO BE DONE BY AWS CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN WELDS BEING PERFORMED. ALL ELECTRODES SHALL BE E70 SERIES UNLESS NOTED OTHERWISE.

SEQUENCE WELDS TO AVOID DISTORTION OF MEMBERS. DO NOT WELD OR BOLT UNTIL MEMBER IS PROPERLY ALIGNED AND SECURED IN ITS FINAL POSITION.

WELDS NOT OTHERWISE NOTED SHALL BE 3/16" CONTINUOUS FILLET WELDS. PARTIAL AND/ OR FULL PENETRATION WELDS SHALL BE FULLY DETAILED ON SHOP DRAWINGS.

APPROVED AND DESIGNED OPENINGS IN STEEL MEMBERS SHALL BE SHOWN ON SHOP DRAWINGS. CUTTING OR BURNING HOLES IN FIELD IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

PROVIDE ONE COAT OF SHOP APPLIED RUST INHIBITIVE PRIMER TO ALL STRUCTURAL MEMBERS. DO NOT PAINT SURFACES TO BE GALVANIZED, FIELD WELDED, EMBEDDED IN CONCRETE OR MASONRY. CONTACT SURFACES OF FRICTION CONNECTIONS, AND SURFACES TO RECEIVE SPRAY ON FIREPROOFING.

ALL STRUCTURAL STEEL LOCATED IN EXTERIOR WALLS OR PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

SHEARWALL & HOLD DOWN SCHEDULE

	WALL SHEATHING		MAIN FLOOR		
MARK	SHEATHING	BLOCKING	NAILING PATTERN	HOLD DOWN & POST	SILL ANCHORS
SW1	15/32" APA RATED SHEATHING	NOT REQUIRED	10d NAILS @ 6/12	-	1/2"Ø ANCHORS @ 48" O.C.
SW2	15/32" APA RATED SHEATHING	NOT REQUIRED	10d NAILS @ 6/12	SIMPSON HDU4 w/ 5/8"Ø HIT-RE 500V3 EPOXY ANCHOR (8" EMBED.) TO (3) STUD POST	1/2"Ø ANCHORS @ 48" O.C.
SW3	15/32" APA RATED SHEATHING	AT PANEL EDGES	10d NAILS @ 4/12	SIMPSON HDU8 w/ 7/8"Ø HIT-RE 500V3 EPOXY ANCHOR (10" EMBED.) TO (4) STUD POST	1/2"Ø ANCHORS @ 24" O.C.

SHEAR WALL NOTES:
1. ALL SHEARWALLS TO BE SW1 U.N.O.
2. ALL EXTERIOR SHEARWALLS TO BE CONTINUOUS FROM BASE OF WALL TO UNDERSIDE OF ROOF TRUSSES w/ STAGGERED VERTICAL JOINTS. NO HORIZONTAL JOINTS FROM 1'-0" BELOW TRUSSES TO 1'-0" ABOVE TRUSSES.
3. WHERE MULTIPLE SHEARWALLS TERMINATE AT THE SAME HOLDOWN POST (I.E. WALL CORNERS) USE THE LARGER OF THE REQUIRED HOLDOWNS.
4. HOLDOWN ANCHORS ARE TO BE EMBEDDED INTO THE FOOTING BELOW THE FLOOR SLAB.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE w/ ANCHOR RODS
C5	HSS5X5X1/4	11" x 3/4" x 0'-11" W/ (4) 3/4"Ø HEADED & 9" EMBEDMENT
P6	TREATED 6x6	ABU66Z POST BASE

ISOLATED FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING
F3	3'-0"	3'-0"	3'-6"	4 @ #5 VERTICAL & #3 TIES @ 12" O.C.
F3A	3'-0"	3'-0"	1'-0"	3 @ #4 EACH WAY
F4A	4'-0"	4'-0"	1'-0"	4 @ #5 EACH WAY
F5A	5'-0"	5'-0"	1'-0"	5 @ #6 EACH WAY

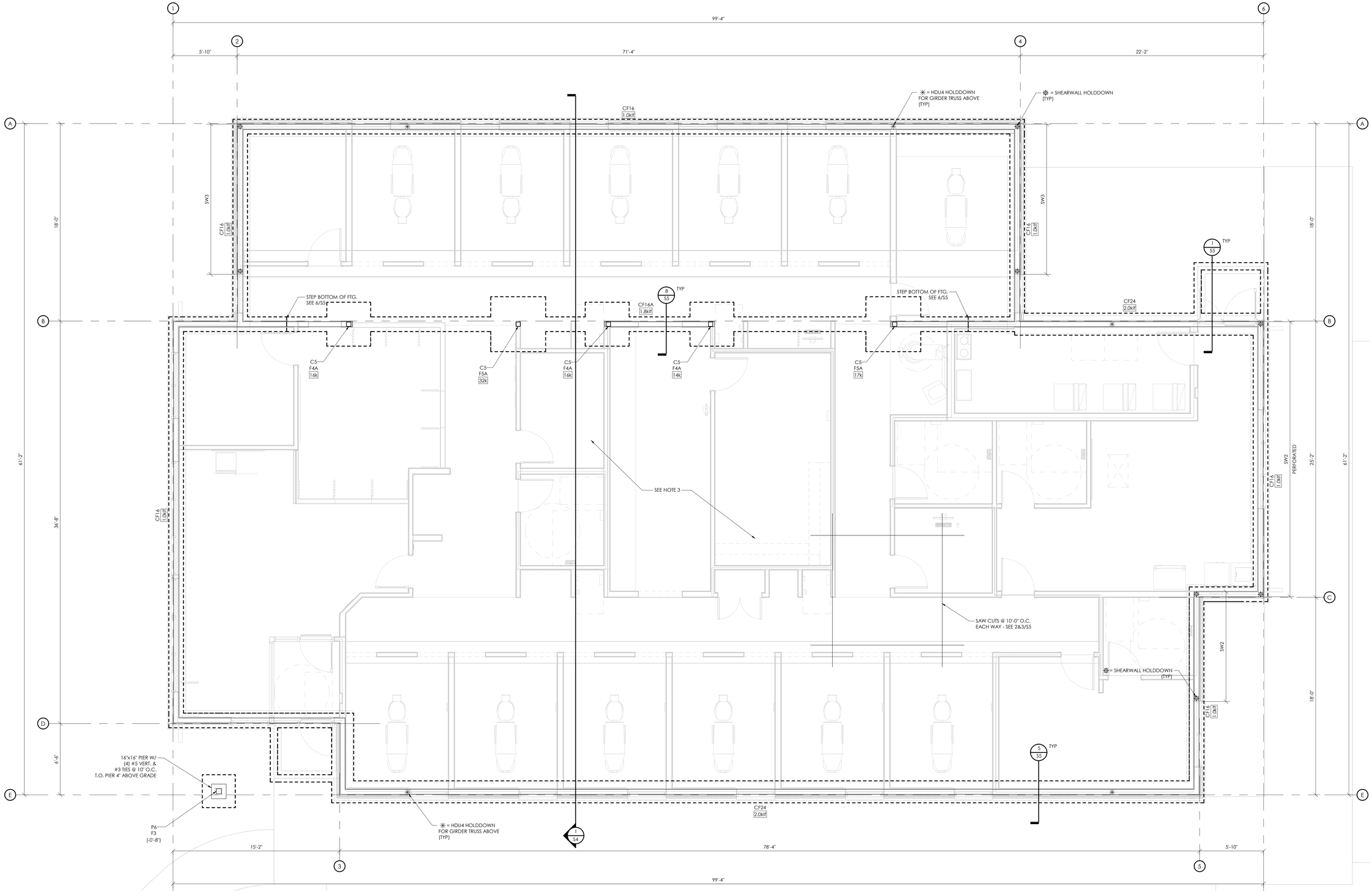
CONTINUOUS FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING
CF8	0'-8"	3'-6"	2 @ #4 TOP & BOTT. w/ #4 VERTICAL @ 24" O.C.
CF16	1'-4"	3'-6"	2 @ #5 TOP & BOTT. w/ #4 HORIZ. @ CENTER & #4 VERTICAL @ 24" O.C.
CF16A	1'-4"	1'-0"	2 @ #5 CONT. & #5 @ 24" O.C. TRANSVERSE
CF24	2'-0"	3'-6"	2 @ #5 TOP & BOTT. w/ 2 @ #4 HORIZ. @ CENTER & #3 STIRRUPS @ 24" O.C.
CF24A	2'-0"	1'-0"	3 @ #5 CONT. & #5 @ 24" O.C. TRANSVERSE

LICENSED PROFESSIONAL ENGINEER — LUKE LOGAN 27498 — IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA
THIS NOTICE COVERS DRAWINGS S1-S5

SIGNATURE:
NAME: LUKE LOGAN
DATE: 26 May 2023 — 27498
MY REGISTRATION EXPIRES ON 31-DECEM



NOTES:
1. F.F. ELEVATION 0'-0" CORRELATES TO CIVIL ELEVATION 87.4' VERIFY W/ CIVIL DRAWINGS
2. TOP OF FOOTING TO BE -0'-8", U.N.O.
3. **4"** SLAB ON GRADE W/ **6x6 W2.9xW2.9 WWF** OVER 10 MIL POLY VAPOR BARRIER ON 4" GRANULAR FILL
4. ALL INTERIOR BEARING WALLS & ALL EXTERIOR WALLS TO HAVE 1/2"Ø x6" TITEN HD ANCHORS @ 48" O.C. U.N.O.

FOOTING AND FOUNDATION PLAN

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

FOR PERMIT

TOMETICH ENGINEERING, INC.
10501 Buena Vista Court Urbandale, IA 50322
(p) 515.280.8022 (f) 515.727.9124
http://www.tometichengineering.com

Jones County Family Dental
Anamosa, IA

ISSUE / REVISION

No.	Description	Date
	FOR PERMIT	5/26/23

FOOTING AND FOUNDATION PLAN

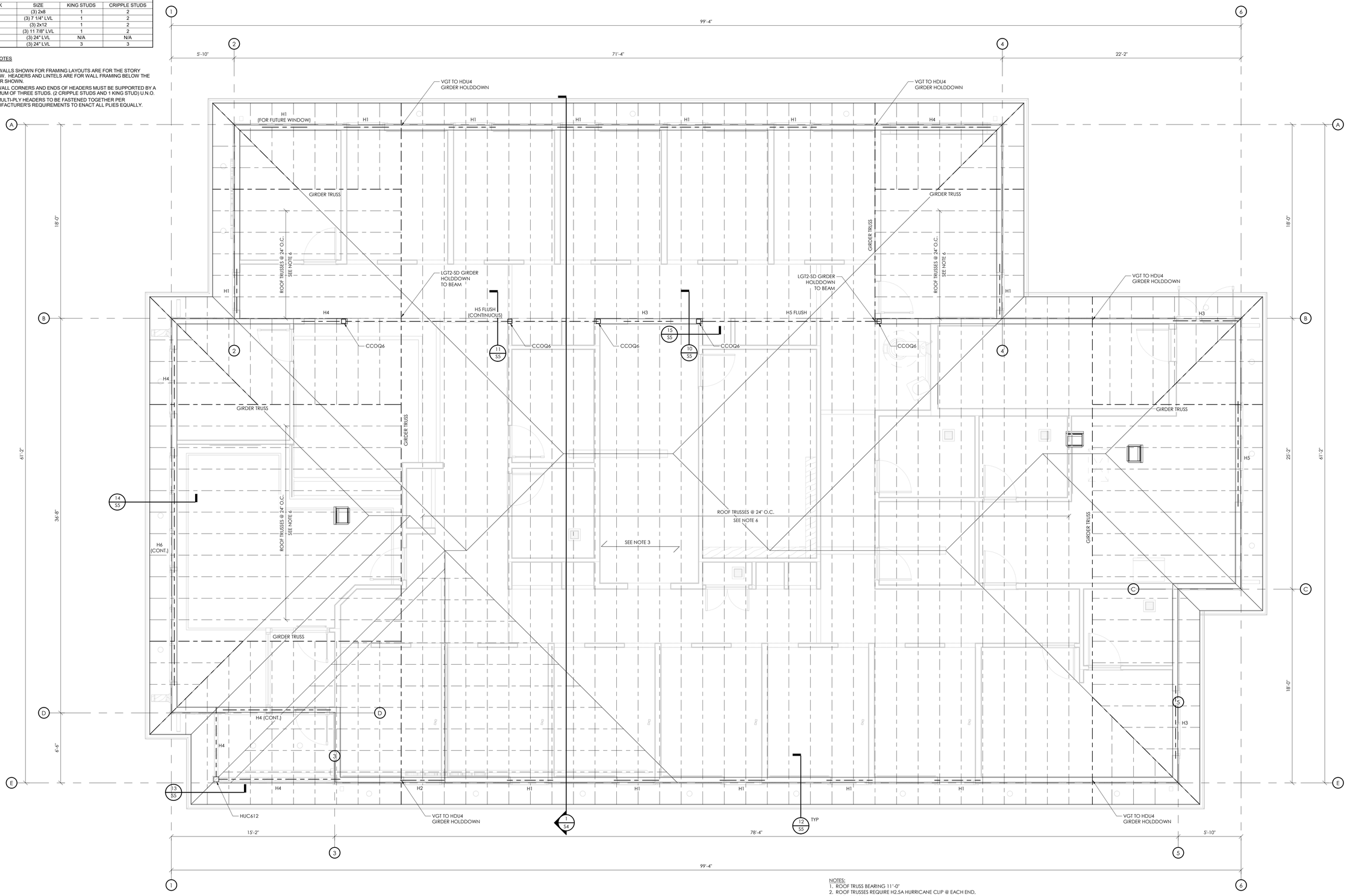
DATE: 5/26/23
FILE: U23-118
ENG: LJL DSN: WDM

S2

HEADER SCHEDULE			
MARK	SIZE	KING STUDS	CRIPPLE STUDS
H1	(3) 2x8	1	2
H2	(3) 7 1/4" LVL	1	2
H3	(3) 2x12	1	2
H4	(3) 11 7/8" LVL	1	2
H5	(3) 24" LVL	N/A	N/A
H6	(3) 24" LVL	3	3

HEADER NOTES

1. THE WALLS SHOWN FOR FRAMING LAYOUTS ARE FOR THE STORY BELOW. HEADERS AND LINTELS ARE FOR WALL FRAMING BELOW THE FLOOR SHOWN.
2. ALL WALL CORNERS AND ENDS OF HEADERS MUST BE SUPPORTED BY A MINIMUM OF THREE STUDS. (2 CRIPPLE STUDS AND 1 KING STUD) U.N.O.
3. ALL MULTI-PLY HEADERS TO BE FASTENED TOGETHER PER MANUFACTURER'S REQUIREMENTS TO ENACT ALL PLIES EQUALLY.



ROOF FRAMING PLAN

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

NOTES:
1. ROOF TRUSS BEARING 11'-0"
2. ROOF TRUSSES REQUIRE H2.5A HURRICANE CLIP @ EACH END, EACH TRUSS
3. 5/8" PLYWOOD SHEATHING NAILED TO ROOF FRAMING w/ 8d COMMON NAILS 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
4. ALL STEEL EXPOSED TO THE ELEMENTS TO BE GALVANIZED
5. ROOF TRUSSES REQUIRED @ UNIT PARTITION WALL FOR DRAFT STOP, SEE ARCH. ALIGN TRUSS W/ STUD FACE
6. ROOF TRUSS LOADING TO BE 30-10-10, U.N.O.

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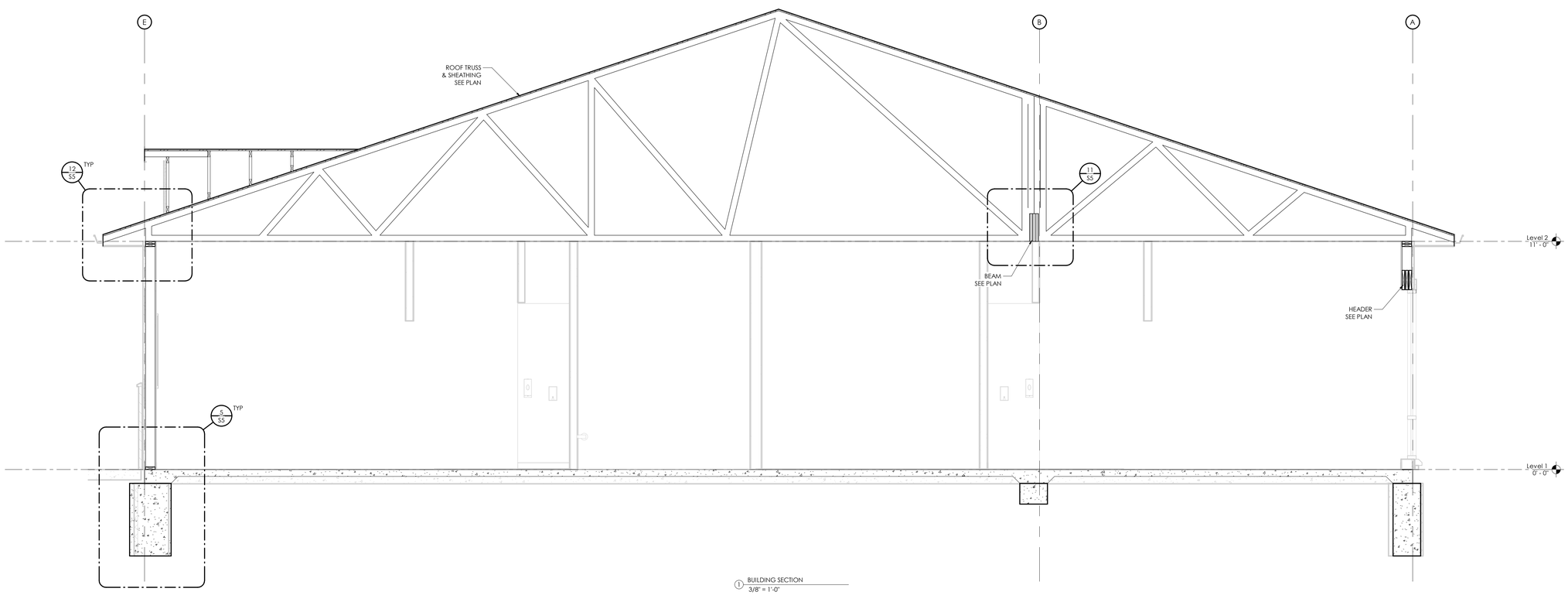
ROOF FRAMING PLAN

DATE: 5/26/23
FILE: U23-118
ENG: LJL DSN: WDM

S3



1 BUILDING SECTION
3/8" = 1'-0"

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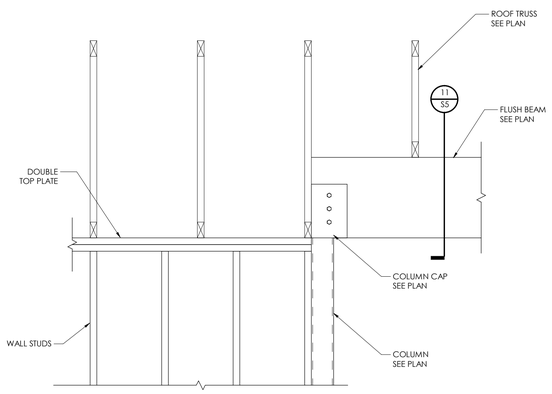
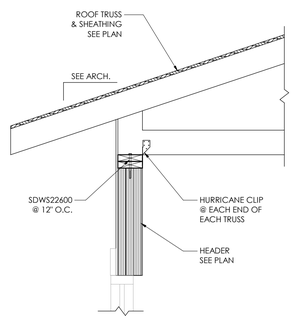
BUILDING SECTIONS

DATE: 5/26/23
FILE: U23-118
ENG: LJL DSN: WDM

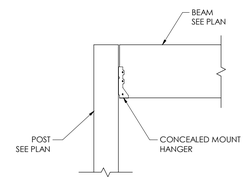
S4



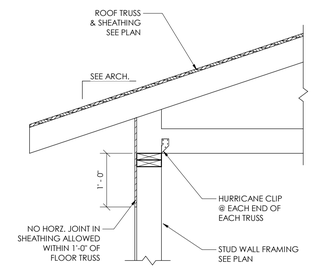
15 FLUSH BEAM BEARING DETAIL
3/4" = 1'-0"



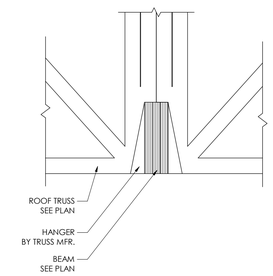
14 ROOF TRUSS BEARING DETAIL
3/4" = 1'-0"



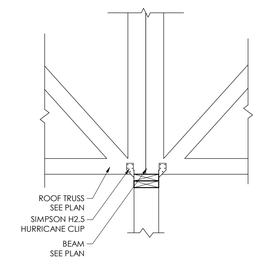
13 WOOD BEAM TO WOOD POST CONN. DETAIL
3/4" = 1'-0"



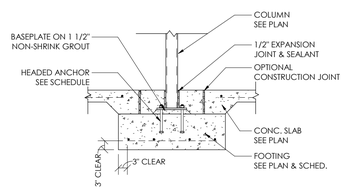
12 ROOF TRUSS BEARING DETAIL
3/4" = 1'-0"



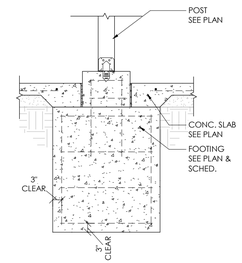
11 ROOF TRUSS BEARING
3/4" = 1'-0"



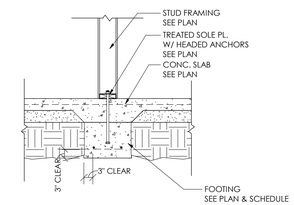
10 ROOF TRUSS BEARING
3/4" = 1'-0"



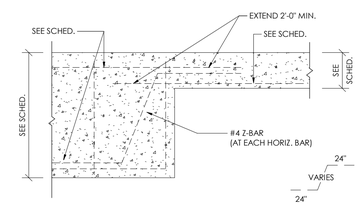
16 INTERIOR FOOTING AT COLUMN w/ ISOLATION JOINT
1/2" = 1'-0"



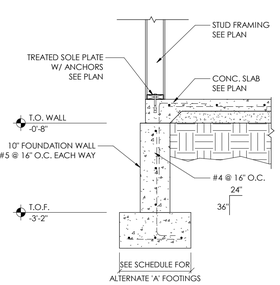
9 WOOD POST ON PIER DETAIL
1/2" = 1'-0"



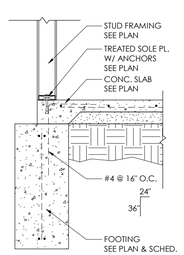
8 INTERIOR FOOTING AT LOAD-BEARING STUD WALL
1/2" = 1'-0"



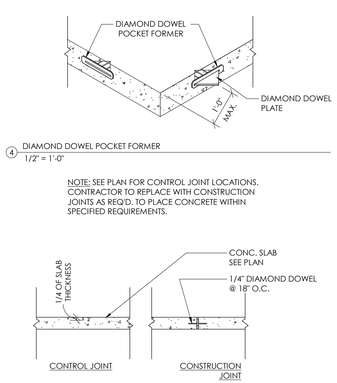
7 TRENCH FOOTING TRANSITION
1/2" = 1'-0"



BID ALTERNATE
6 EXTERIOR FOOTING W/ FND. WALL DETAIL
1/2" = 1'-0"



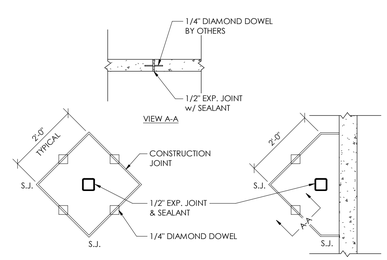
5 EXTERIOR FOOTING AT STUD WALL
1/2" = 1'-0"



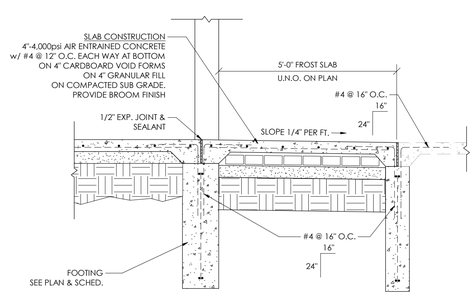
4 DIAMOND DOWEL POCKET FORMER
1/2" = 1'-0"

NOTE: SEE PLAN FOR CONTROL JOINT LOCATIONS. CONTRACTOR TO REPLACE WITH CONSTRUCTION JOINTS AS REQ'D. TO PLACE CONCRETE WITHIN SPECIFIED REQUIREMENTS.

3 CONTROL & CONSTRUCTION JOINTS
1/2" = 1'-0"



2 OPTIONAL SLAB CONSTRUCTION JOINT AT COLUMNS
1/2" = 1'-0"



1 STOOP DETAIL
1/2" = 1'-0"

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ISSUE / REVISION

No.	Description	Date
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DATE: 4/28/23
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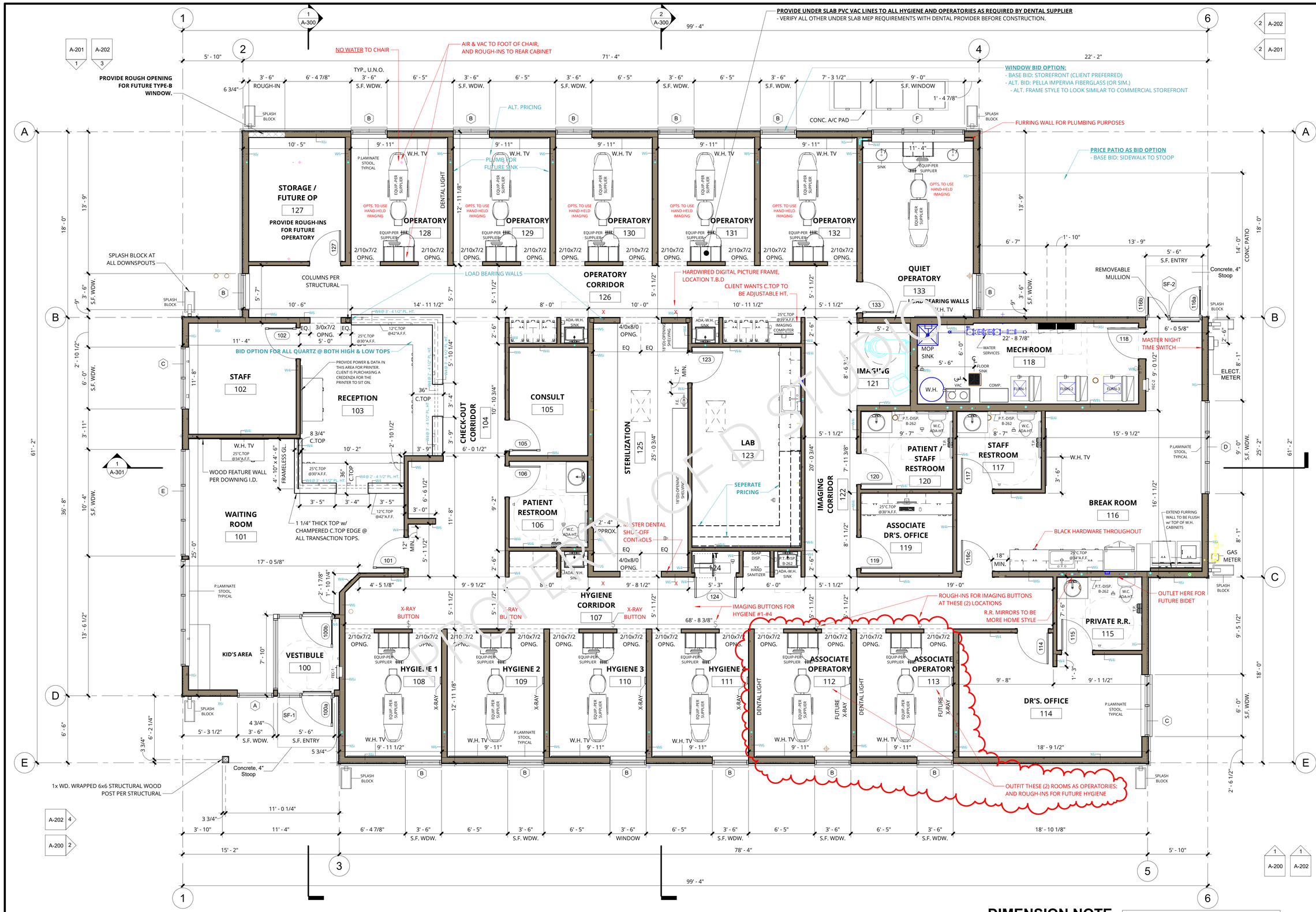
S5



MAIN LEVEL PLAN

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

DIMENSION NOTE

ALL DIMENSIONS ARE TO GRID LINES & STUD FRAMING (UNLESS NOTED OTHERWISE) SET EXTERIOR SHEATHING FLUSH w/ GRIDLINES

Overall Building Area (Including Exterior Walls)	
Name	Area
GROSS BUILDING AREA	5,368 SF

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STUDIO ARCHITECTURE | INTERIORS
509 East Scenic Valley Ave.
Indianola, Iowa 50125
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f: 515.961.0468
www.downingconstruct.com
www.downingplanroom.com

Jones County Family Dental

3201 SE 37th Street
Anamosa, Iowa 52205

BID SET - NOT FOR CONSTRUCTION

DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

DRAWN BY: Precon. Team

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
--/--/----
--/--/----
--/--/----

PLAN NO. = 90-154

DWG. LIST

MAIN LEVEL PLAN

SHEET NO.

A-101

EXTERIOR VENEER

INTERIOR WALLS

INTERIOR WALLS

INTERIOR WALLS

NOTE:
REFER TO STRUCTURAL DRAWINGS FOR ALL FRAMING ANCHORAGE, BRACING, AND SHEAR WALL CONDITIONS. AND COORDINATE AS REQUIRED PER THE STRUCTURAL PLANS.

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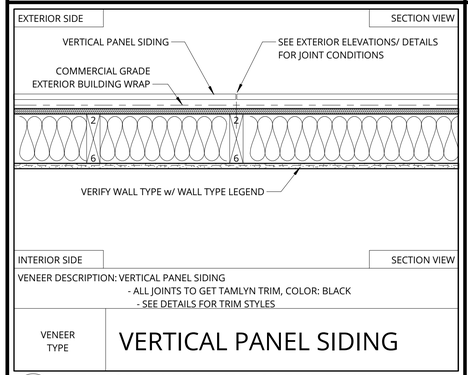
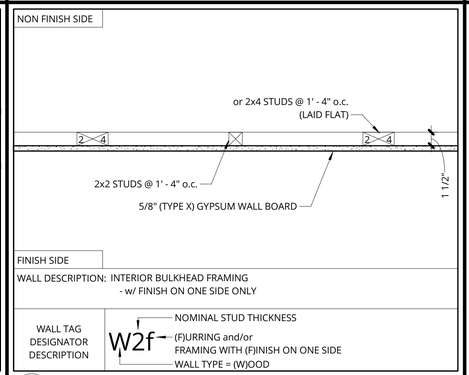
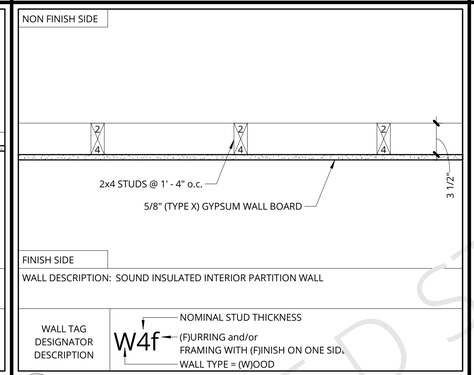


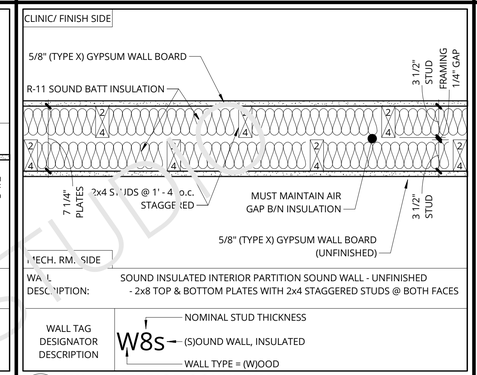
19 EXTERIOR VENEER TYPE - HARDIE PANEL
SCALE: 1 1/2" = 1'-0"



15 W2f - INTERIOR WALL
SCALE: 1 1/2" = 1'-0"

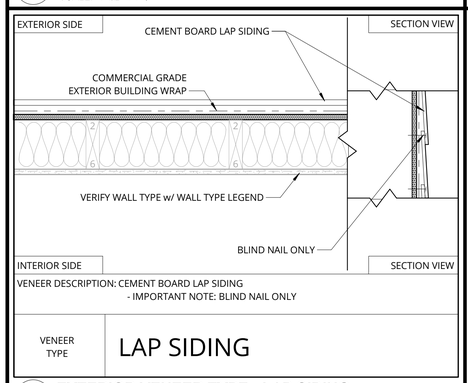


11 W4f - INTERIOR WALL
SCALE: 1 1/2" = 1'-0"

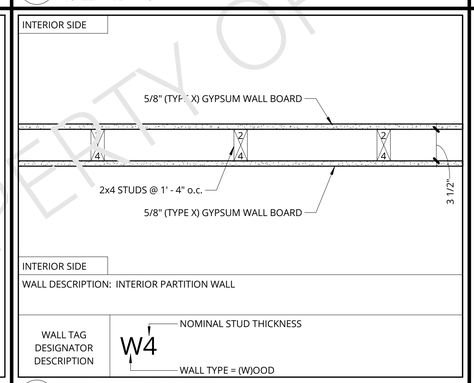


7 W8s - INTERIOR SOUND WALL
SCALE: 1 1/2" = 1'-0"

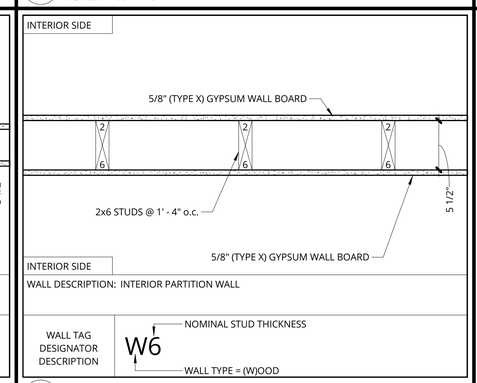
EXTERIOR WALLS



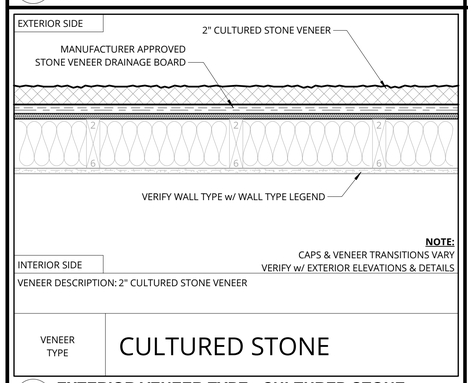
18 EXTERIOR VENEER TYPE - LAP SIDING
SCALE: 1 1/2" = 1'-0"



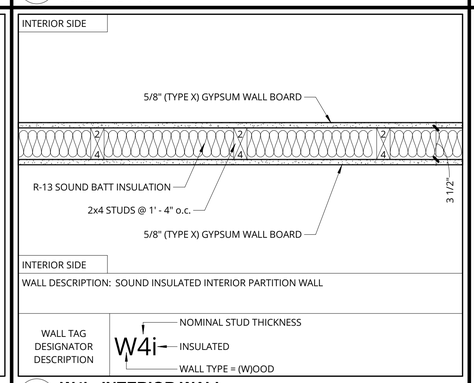
10 W4 - INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



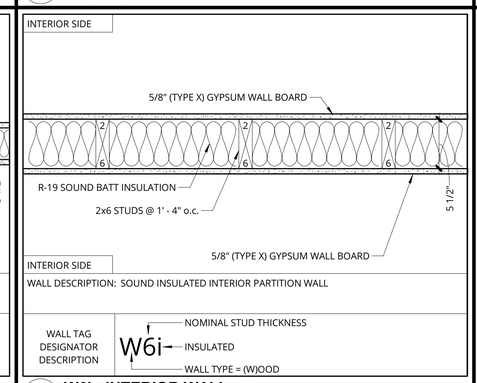
6 W6 - INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



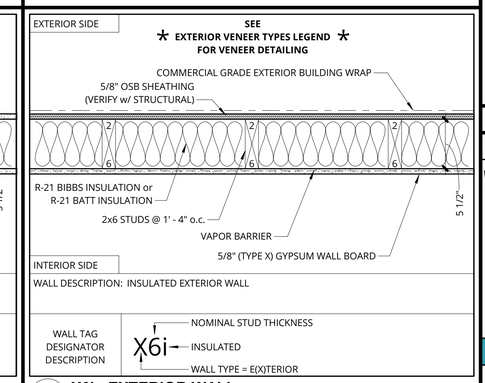
17 EXTERIOR VENEER TYPE - CULTURED STONE
SCALE: 1 1/2" = 1'-0"



9 W4i - INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



5 W6i - INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



1 X6i - EXTERIOR WALL
SCALE: 1 1/2" = 1'-0"

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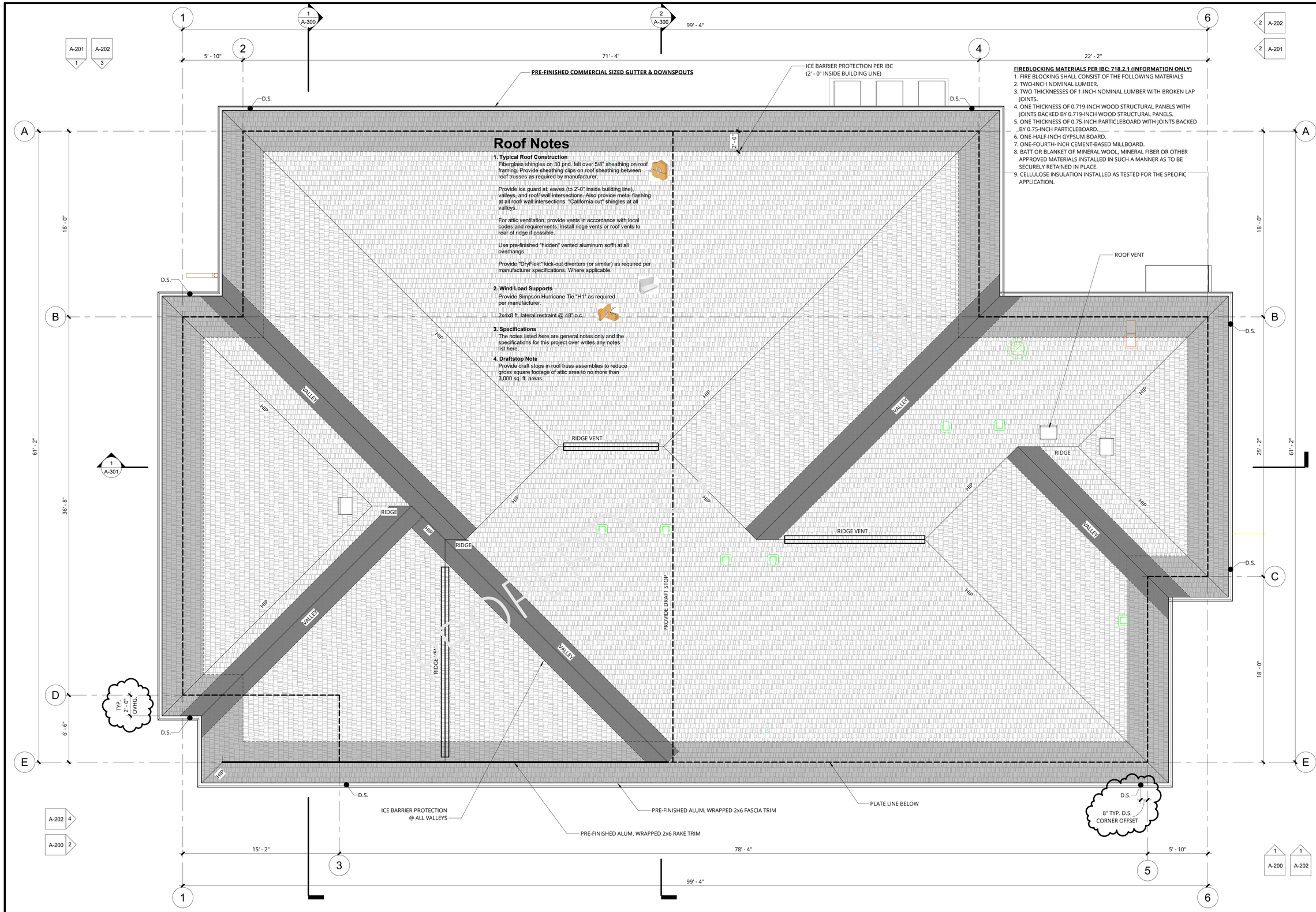
PLAN NO. = **90-154**

DWG. LIST
WOOD WALL TYPES LEGEND (IN PLAN VIEW)

SHEET NO.
A-140



Roof Notes

1. Typical Roof Construction

Fiberglass shingles on 30 pnd. felt over 5/8" sheathing on roof framing. Provide sheathing clips on roof sheathing between roof trusses as required by manufacturer.

Provide ice guard at: eaves (to 2'-0" inside building line), valleys, and roof/ wall intersections. Also provide metal flashing at all roof/ wall intersections. "California cut" shingles at all valleys.

For attic ventilation, provide vents in accordance with local codes and requirements. Install ridge vents or roof vents to rear of ridge if possible.

Use pre-finished "hidden" vented aluminum soffit at all overhangs.

Provide "DryFlekt" kick-out diverters (or similar) as required per manufacturer specifications. Where applicable.

2. Wind Load Supports

Provide Simpson Hurricane Tie "H1" as required per manufacturer.

2x4x8 ft. lateral restraint @ 48" o.c.

3. Specifications

The notes listed here are general notes only and the specifications for this project over writes any notes list here.

4. Draftstop Note

Provide draft stops in roof truss assemblies to reduce gross square footage of attic area to no more than 3,000 sq. ft. areas.

FIREBLOCKING MATERIALS PER IBC: 718.2.1 (INFORMATION ONLY)

1. FIRE BLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS
2. TWO-INCH NOMINAL LUMBER.
3. TWO THICKNESSES OF 1-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS.
4. ONE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS.
5. ONE THICKNESS OF 0.75-INCH PARTICLEBOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLEBOARD.
6. ONE-HALF-INCH GYPSUM BOARD.
7. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD.
8. BATT OR BLANKET OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE.
9. CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION.

1 ROOF PLAN

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

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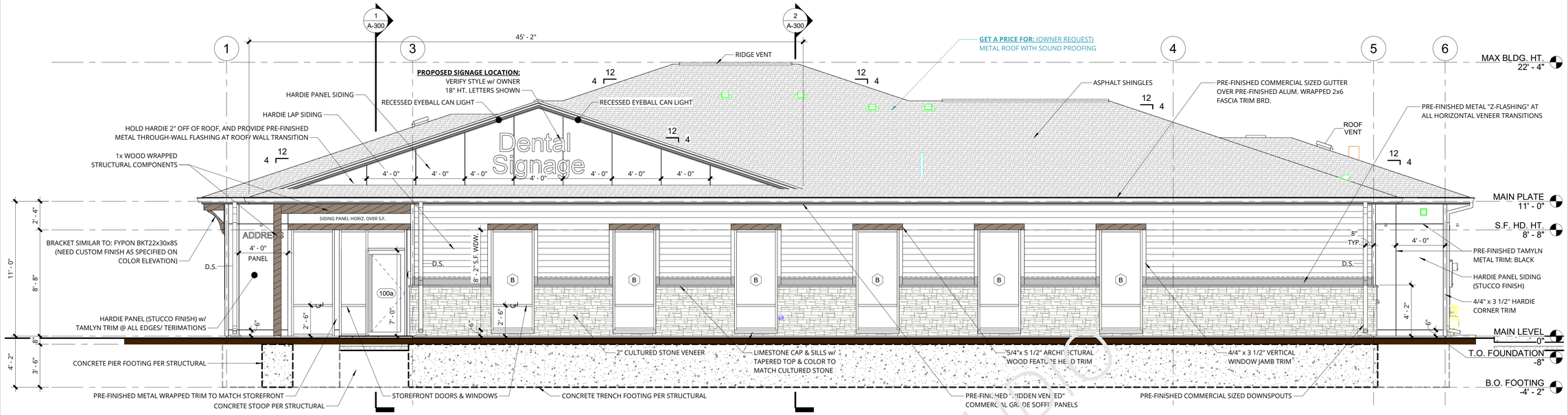
PLAN NO. = **90-154**

DWG. LIST

ROOF PLAN

SHEET NO.

A-150



NOTE:
ALL TAMYLN TRIM TO BE PRE-FINISHED BLACK

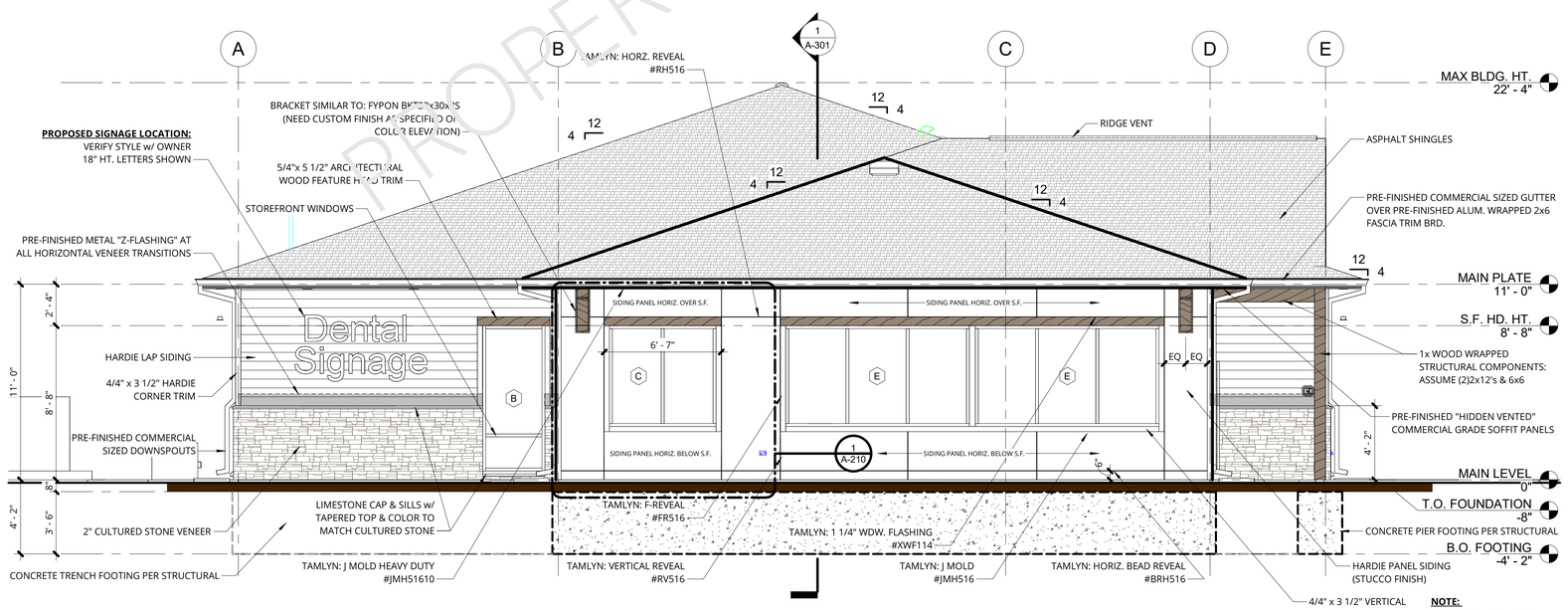
1 EAST (FRONT) ELEVATION

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

SOFFIT BRACKET NOTES:
- THE ARCHITECTURAL SOFFIT BRACKET NEEDS TO BE ABLE TO HAVE A CUSTOM STAIN. IF THE FYPON BRACKET IS UNABLE TO ACHIEVE THIS. THEN THIS BRACKET WILL NEED TO BE JOB-BUILT AND STAINED.

HARDIE TRIM NOTES:
- USE ROUGHSAWN TEXTURE TRIM AT ALL LAP SIDING SURFACES.
- USE SMOOTH FINISHED TRIM AT ALL HARDIE PANEL SURFACES.
- USE ROUGHSAWN TEXTURE FOR ALL HEAD TRIM ON ALL SURFACES

HARDIE SIDING NOTES:
- VERTICAL HARDIE PANEL TO BE STUCCO FINISH.
- HORIZONTAL LAP SIDING TO BE CEDARMILL FINISH.



NOTE:
ALL TAMYLN TRIM TO BE PRE-FINISHED BLACK

2 SOUTH ELEVATION

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

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- **06/01/2023 - Bid Set**
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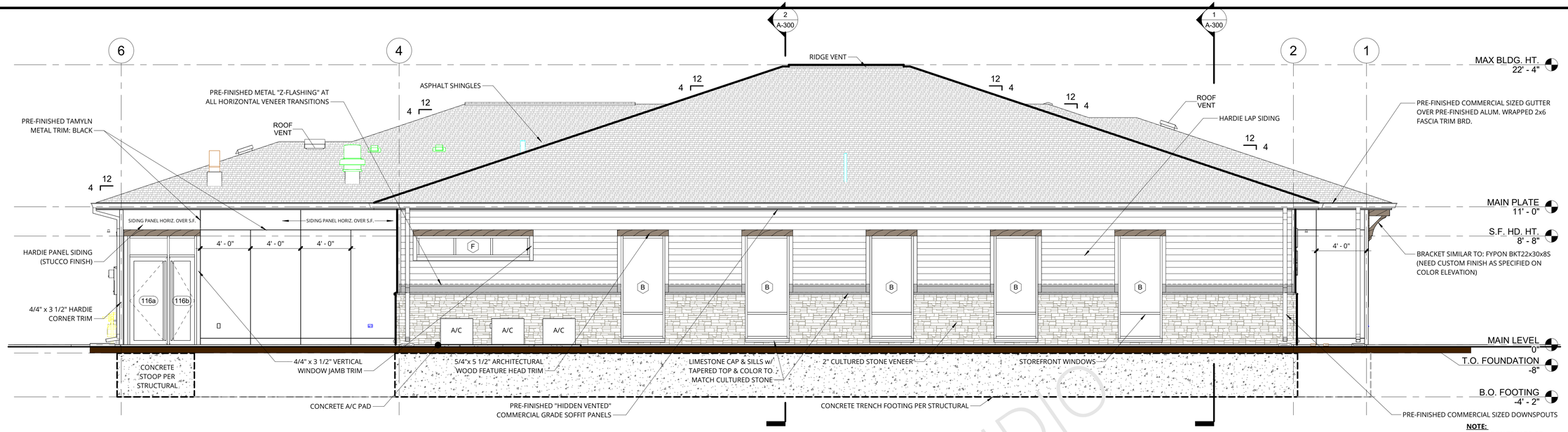
PLAN NO. = **90-154**

DWG. LIST
EXTERIOR ELEVATIONS

SHEET NO.
A-200



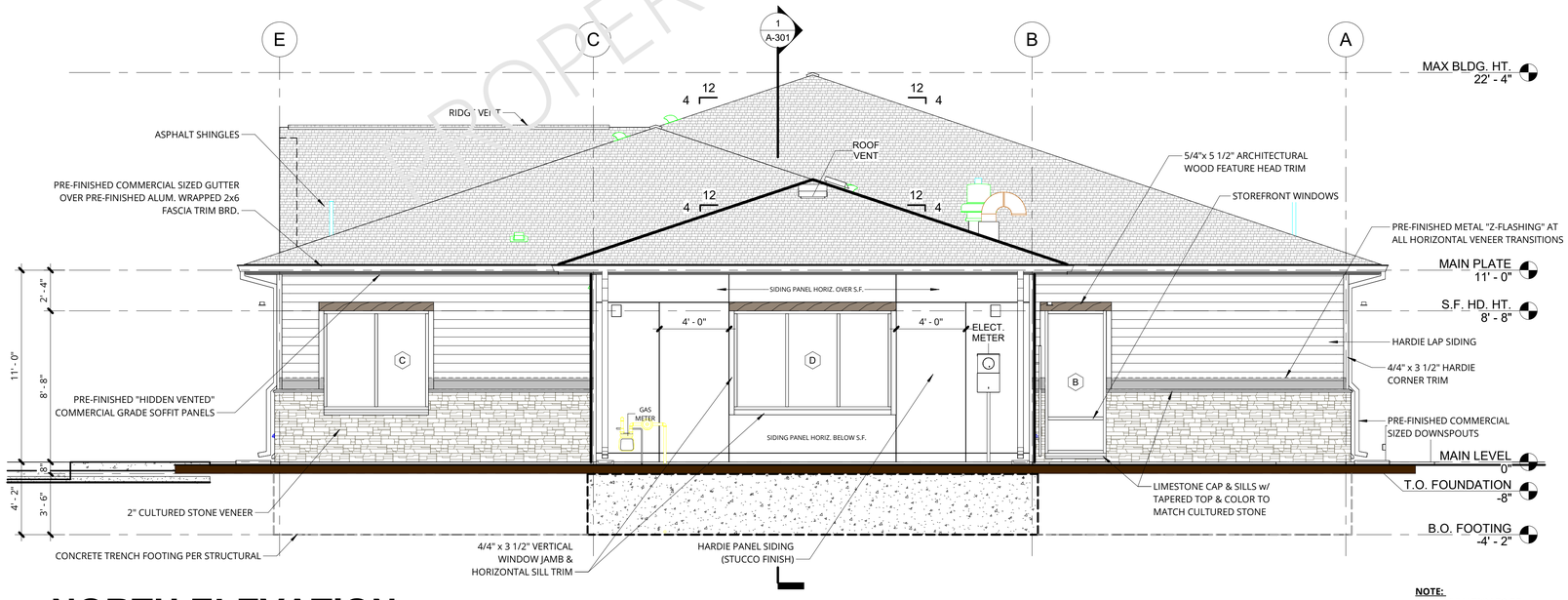
NOTE:
ALL TAMYLN TRIM TO BE
PRE-FINISHED BLACK

1 WEST ELEVATION

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

HARDIE TRIM NOTES:
- USE ROUGHSAWN TEXTURE TRIM AT ALL LAP SIDING SURFACES.
- USE SMOOTH FINISHED TRIM AT ALL HARDIE PANEL SURFACES.
- USE ROUGHSAWN TEXTURE FOR ALL HEAD TRIM ON ALL SURFACES

HARDIE SIDING NOTES:
- VERTICAL HARDIE PANEL TO BE STUCCO FINISH.
- HORIZONTAL LAP SIDING TO BE CEDARMILL FINISH.



NOTE:
ALL TAMYLN TRIM TO BE
PRE-FINISHED BLACK

2 NORTH ELEVATION

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

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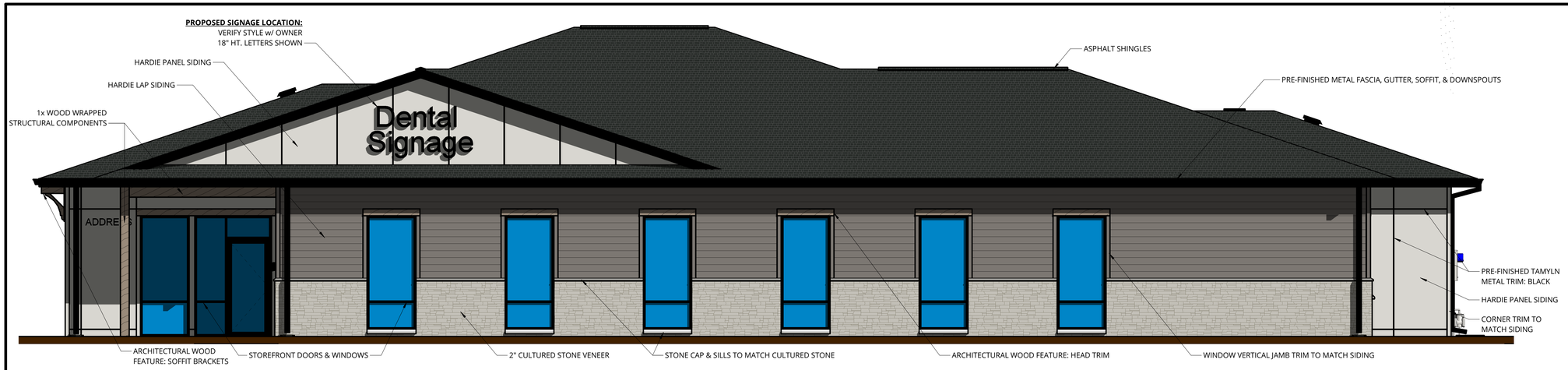
PLAN NO. = **90-154**

DWG. LIST

EXTERIOR
ELEVATIONS

SHEET NO.

A-201



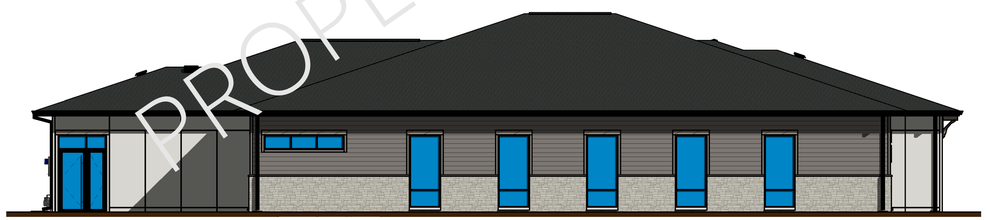
1 COLOR - EAST (FRONT) ELEVATION

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

HARDIE TRIM NOTES:
- USE ROUGHSAWN TEXTURE TRIM AT ALL LAP SIDING SURFACES.
- USE SMOOTH FINISHED TRIM AT ALL HARDIE PANEL SURFACES.
- USE ROUGHSAWN TEXTURE FOR ALL HEAD TRIM ON ALL SURFACES

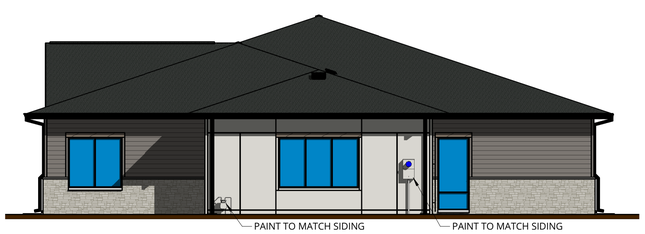
HARDIE SIDING NOTES:
- VERTICAL HARDIE PANEL TO BE STUCCO FINISH.
- HORIZONTAL LAP SIDING TO BE CEDARMILL FINISH.

PROPERTY OF D STUDIO



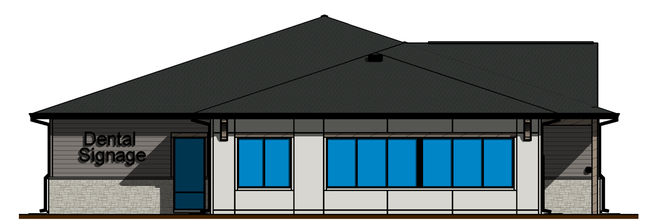
3 COLOR - WEST ELEVATION

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



2 COLOR - NORTH ELEVATION

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



4 COLOR - SOUTH ELEVATION

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

EXTERIOR MATERIAL SELECTIONS

NOTE:
THESE SELECTIONS ARE PROVIDED TO SHOW "COLOR INTENT".

FINAL SELECTIONS CAN/ OR WILL BE MADE BY THE OWNER AS THIS PROJECT PROGRESSES.

ROOFING: SHINGLES
OWENS CORNING or SIMILAR
- DURATION STORM
  - ONYX BLACK
    - SUBSTITION NOTE: MUST BE A BLACK SHINGLE, LITTLE TO NO GRAYS

ROOFING: GUTTER & DOWNSPOUTS
ROLEX
- MATTE BLACK

ROOFING: FASCIA & SOFFIT PANELS
ROLEX
- MATTE BLACK
  - INCLUDES:
    - VISIBLE FLASHINGS

ARCHITECTURAL WOOD FEATURES
MATCH INTERIOR
- ELMWOOD LONDON FOG

HARDIETRIM &/OR HARDIEPANEL
JAMES HARDIE
- PAINT COLOR
  - SHERWIN WILLIAMS
    - SW7648 - TBD
    - BIG CHILL
      - CORNER TRIM TO MATCH
      - TAMLYN TRIM: BLACK
      - GRADE TRIM TO MATCH
      - VERTICAL WDW. & DOOR TRIM TO MATCH

HARDIEPLANK LAP SIDING
JAMES HARDIE
- PAINT COLOR
  - SHERWIN WILLIAMS
    - SW7019 - TBD
    - GAUNTLET GRAY
      - CORNER TRIM TO MATCH
      - VERTICAL WDW. TRIM TO MATCH

WINDOW CLAD EXTERIOR FINISH
KAWNEER or SIMILAR PER SPECS
- ANODIZED BLACK
  - INCLUDES:
    - VISIBLE FLASHINGS

WINDOW CLAD EXTERIOR FINISH
PELLA (BID OPTION)
- BLACK
  - INCLUDES:
    - VISIBLE FLASHINGS

LIMESTONE BANDING/ WINDOW SILL TRIM
GLEN GERY or SIMILAR
- CASHMERE LIMESTONE
  - MATCH CULTERED STONE

CULTURED STONE VENEER
GLEN GERY or SIMILAR
- CASHMERE LIMESTONE

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PLAN NO. = **90-154**

DWG. LIST

COLOR EXTERIOR ELEVATIONS

SHEET NO.

A-202

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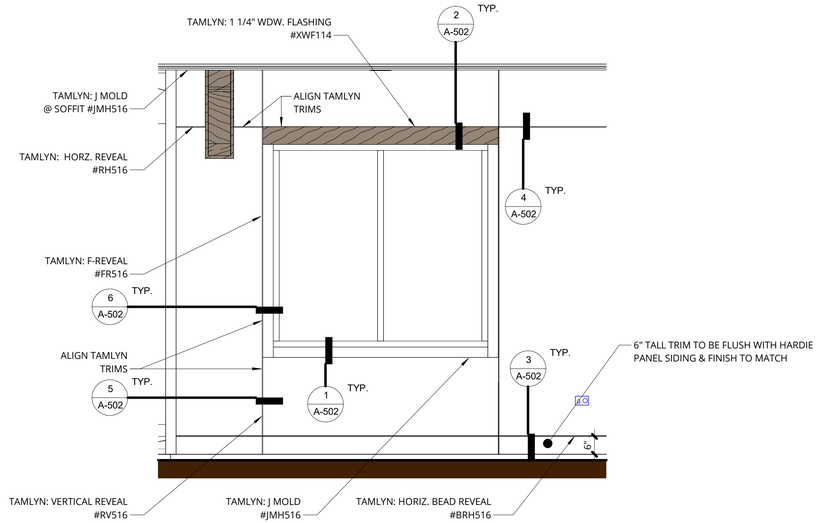

1 **TAMLYN TRIM CALLOUT ELEVATION**

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

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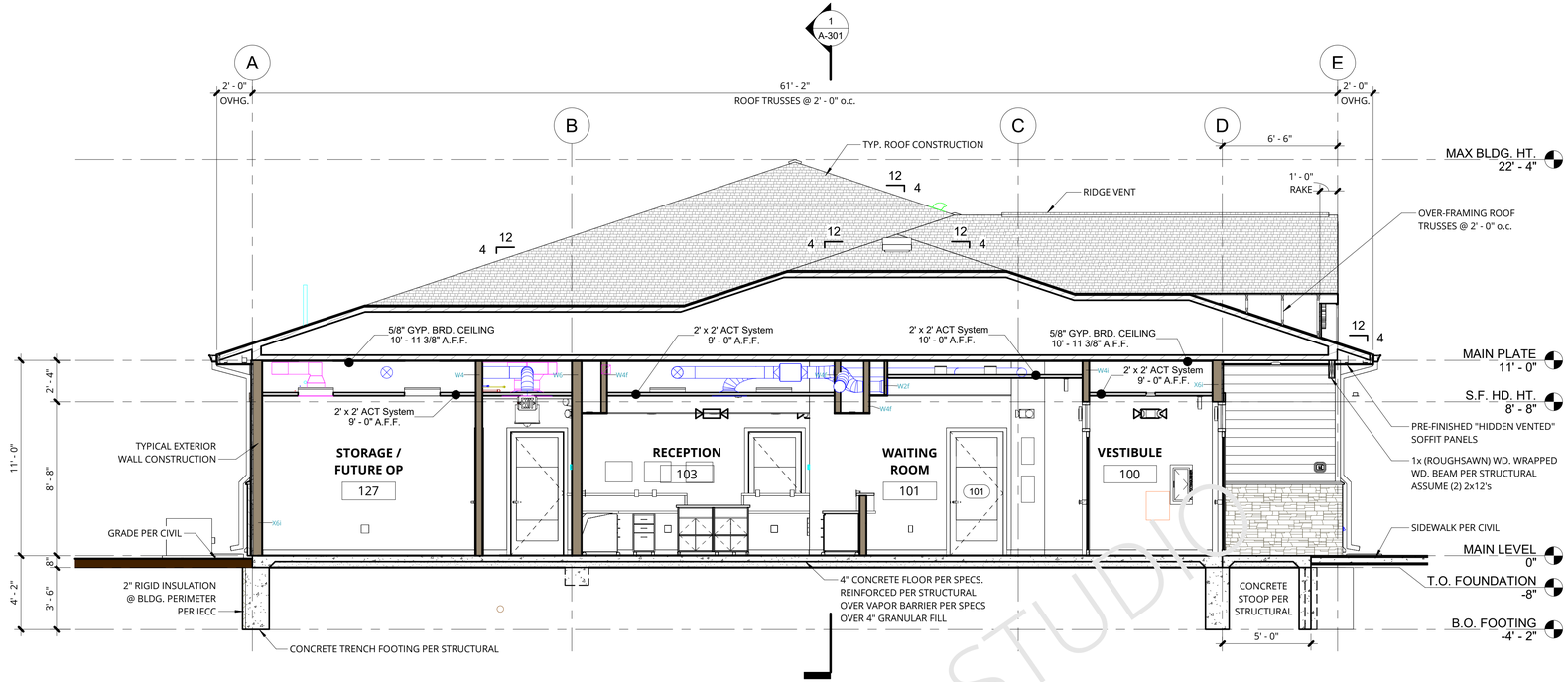
PLAN NO. = **90-154**

DWG. LIST

ENLARGED EXTERIOR ELEVATIONS

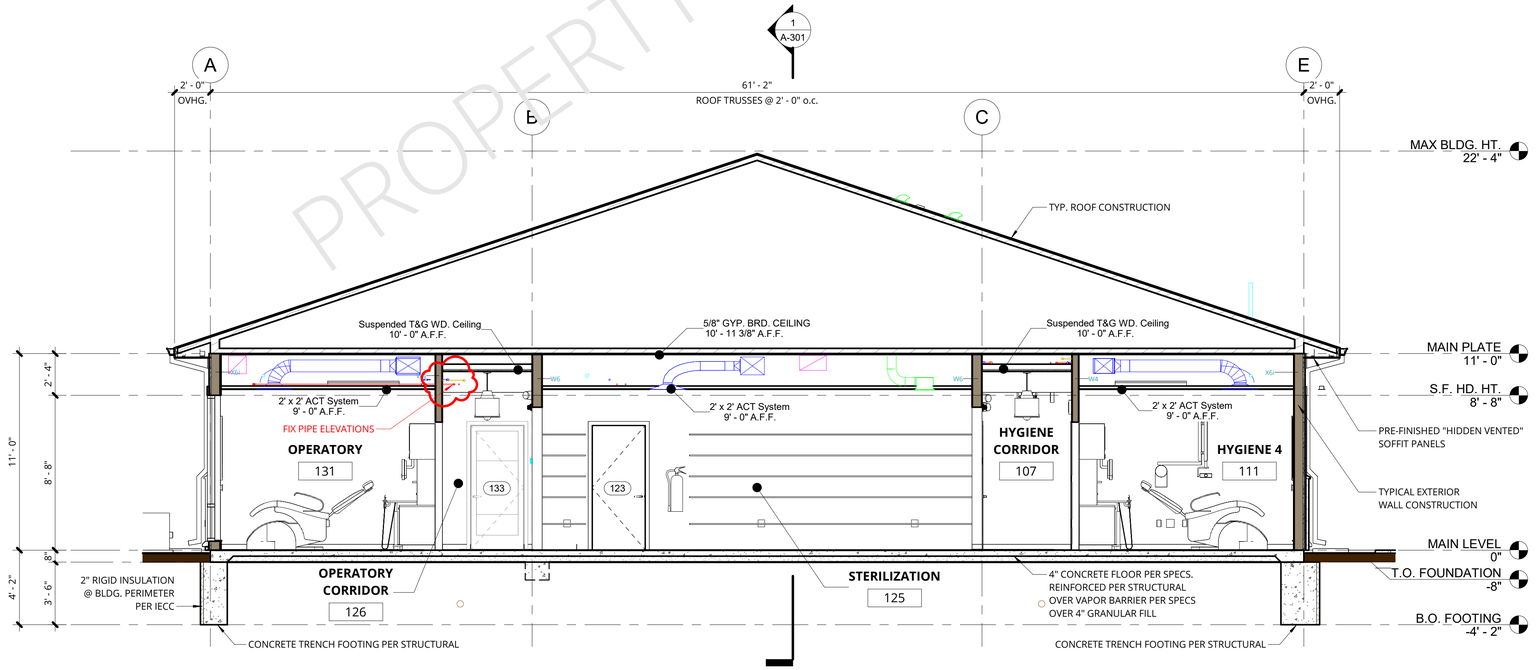
SHEET NO.

A-210



1 BUILDING SECTION-A

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



2 BUILDING SECTION-B

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

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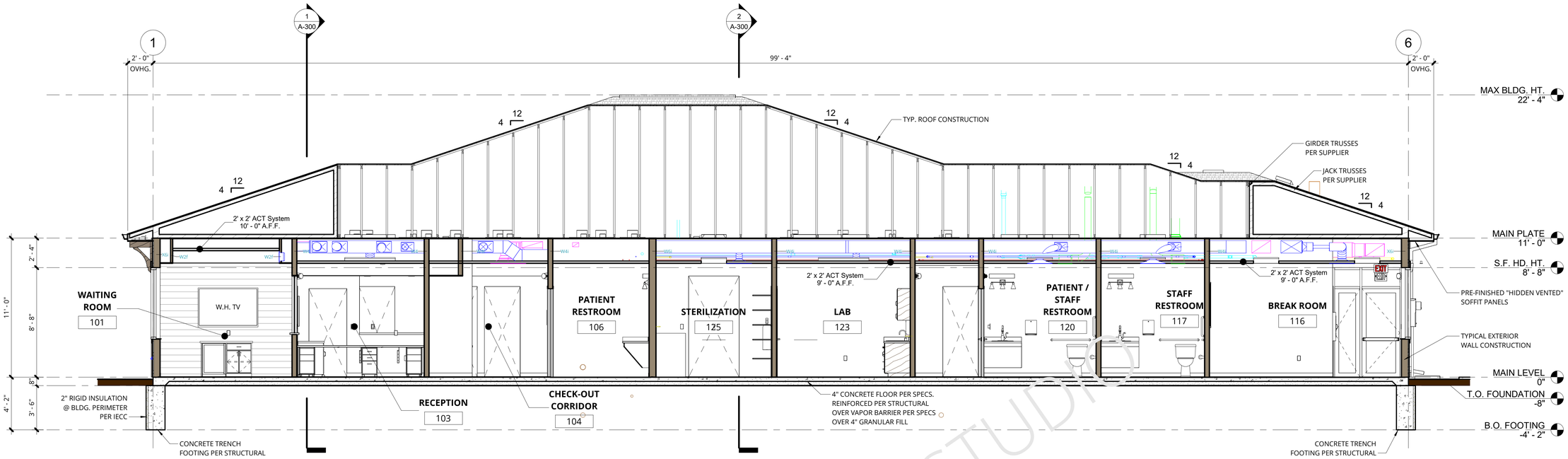
PLAN NO. = **90-154**

DWG. LIST

BUILDING
SECTIONS

SHEET NO.

A-300



1 BUILDING CROSS SECTION-C

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

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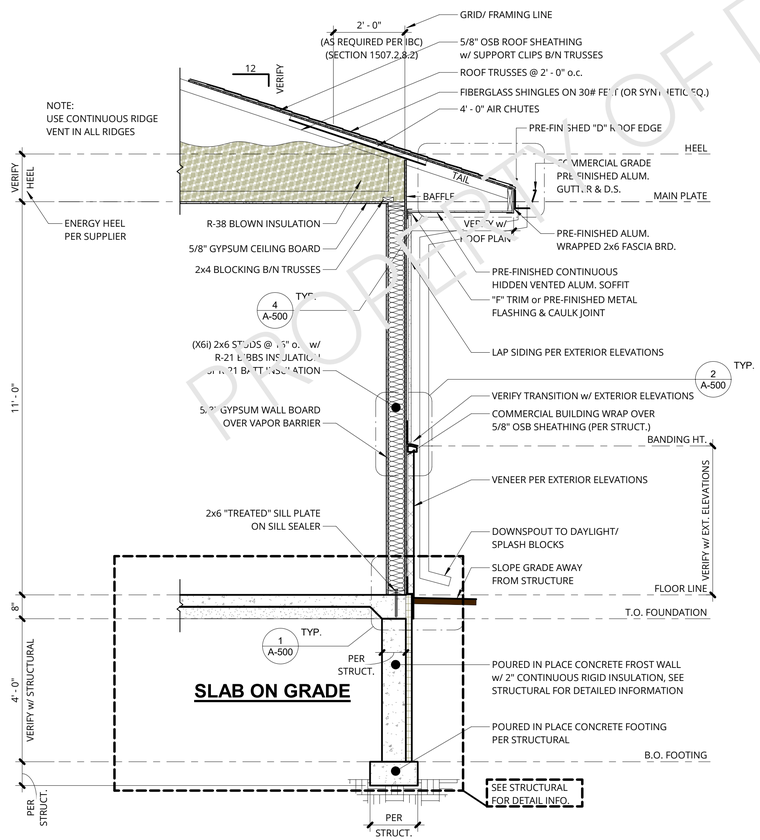
PLAN NO. = **90-154**

DWG. LIST

BUILDING
SECTIONS

SHEET NO.

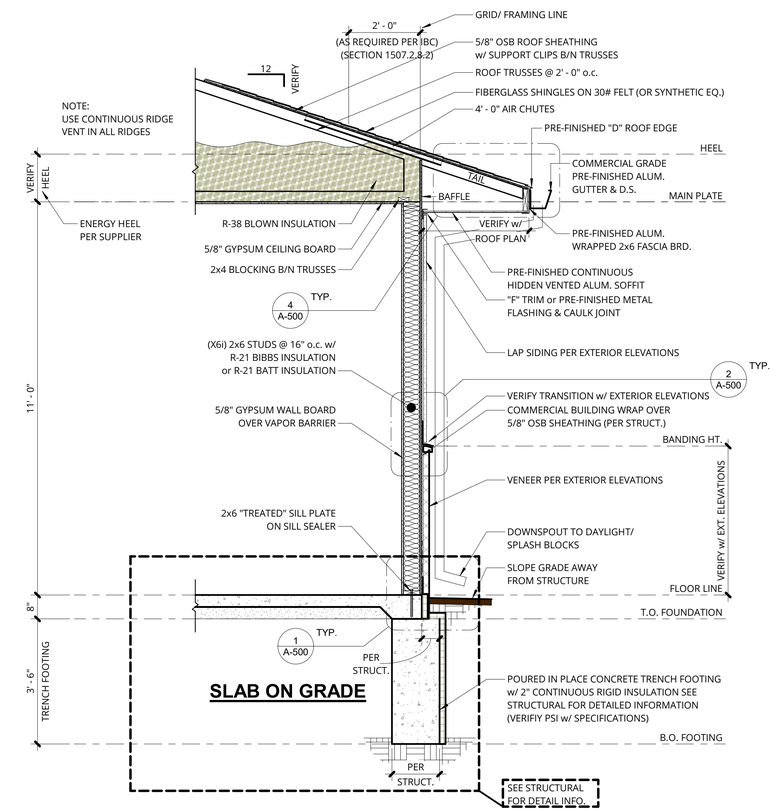
A-301



2 WALL SECTION - BID OPTION

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

PROVIDED INCASE ADDED FILL DOES NOT SUPPORT TRENCH FOOTING CONDITION



1 TYPICAL WALL SECTION - S.O.G.

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

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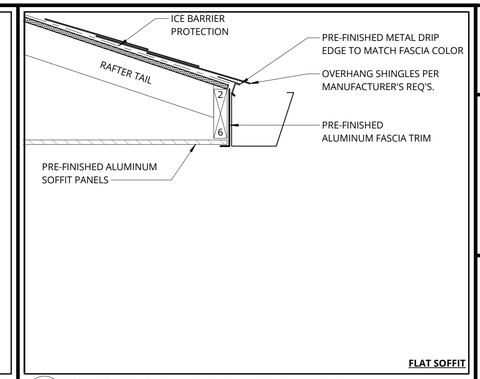
PLAN NO. = **90-154**

DWG. LIST

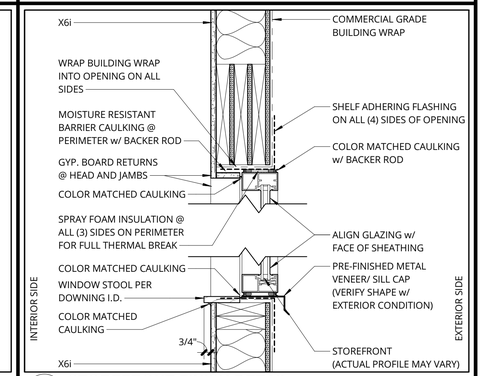
TYPICAL WALL SECTIONS

SHEET NO.

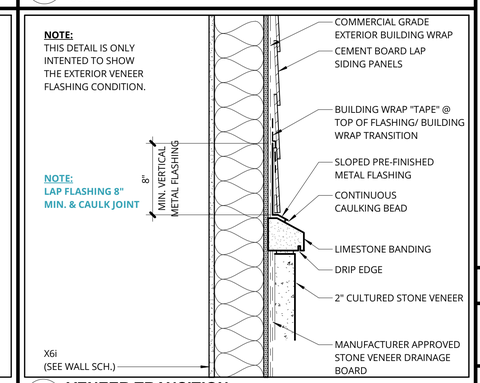
A-400



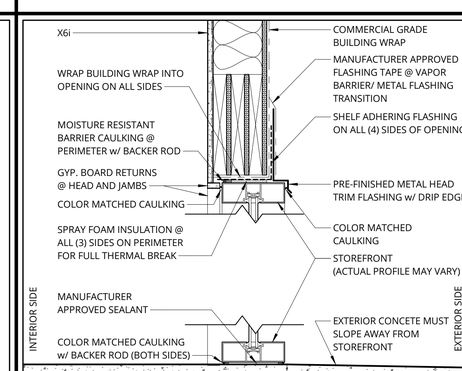
4 **OVHG. FASCIA DETAIL - METAL TRIM**
SCALE: 1 1/2" = 1'-0"



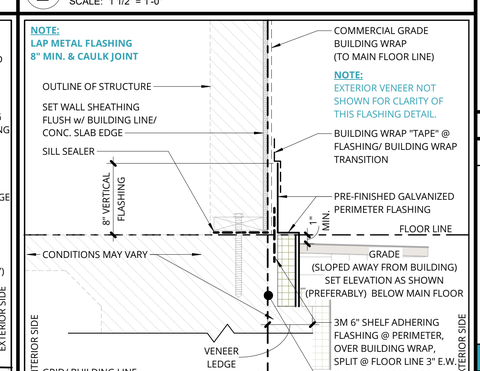
3 **STOREFRONT FINISH DETAIL**
SCALE: 1 1/2" = 1'-0"



2 **VENEER TRANSITION**
SCALE: 1 1/2" = 1'-0"



5 **STOREFRONT DOOR FINISH DETAIL**
SCALE: 1 1/2" = 1'-0"



1 **PERIMETER FLASHING DETAIL, FOR VENEER**
SCALE: 1 1/2" = 1'-0"

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www.downingplanroom.com

Jones County Dental
3201 SE 37th Street
Anamosa, Iowa 52205

BID SET - NOT FOR CONSTRUCTION

DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
--/--/----
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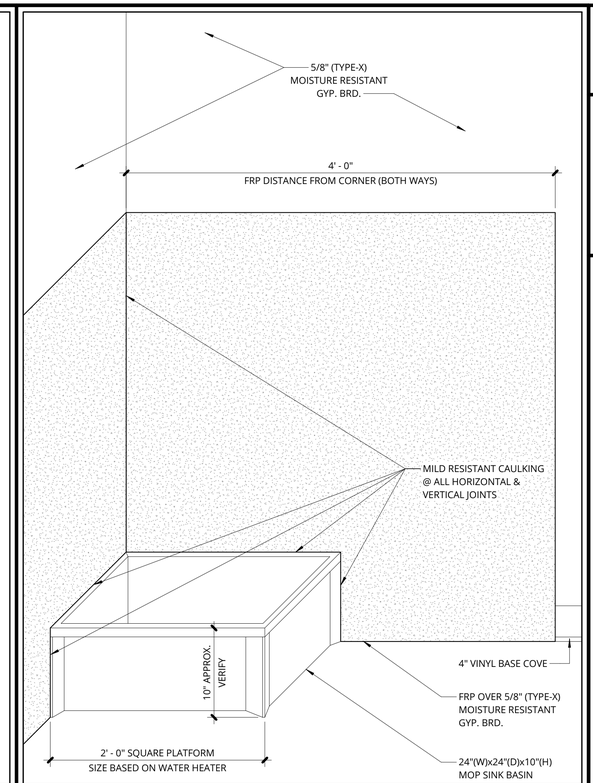
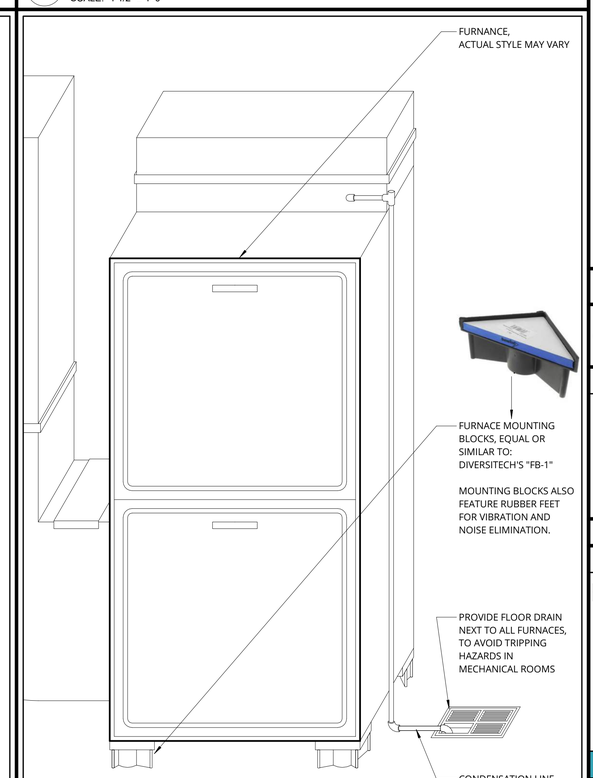
PLAN NO. = **90-154**

DWG. LIST
DETAILS

SHEET NO.
A-500



2 **TYPICAL MOP SINK DETAIL**
SCALE: 1 1/2" = 1'-0"



1 **TYPICAL FURNACE DRAIN DETAIL**
SCALE: 1 1/2" = 1'-0"

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DISCOVER/ ANALYZE | **DEVELOP** | **COMMIT** | **DELIVER**

DRAWN BY: **Precon. Team**

ORIGINAL
CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
--/--/----
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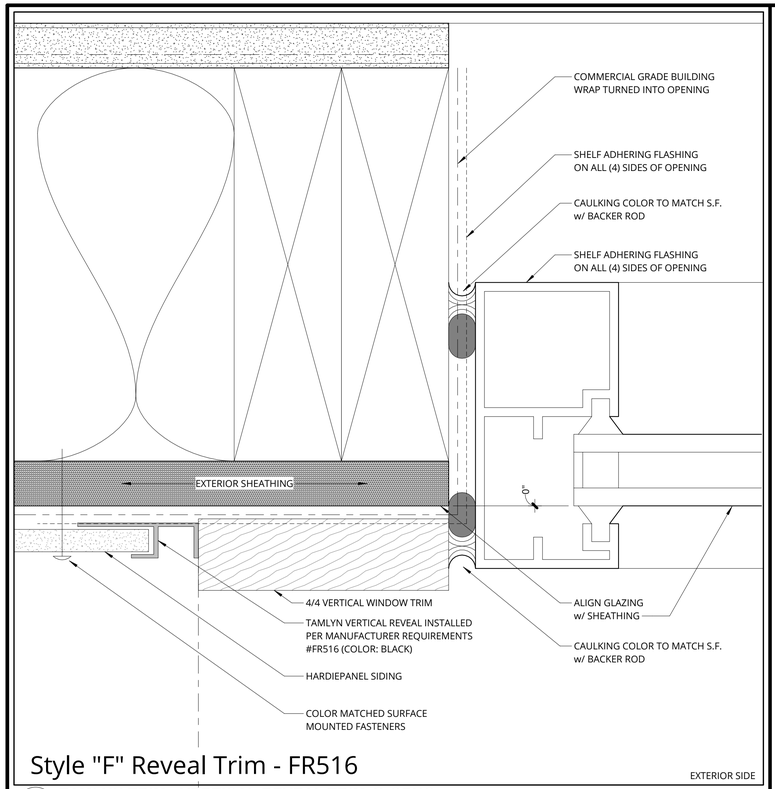
PLAN NO. = **90-154**

DWG. LIST

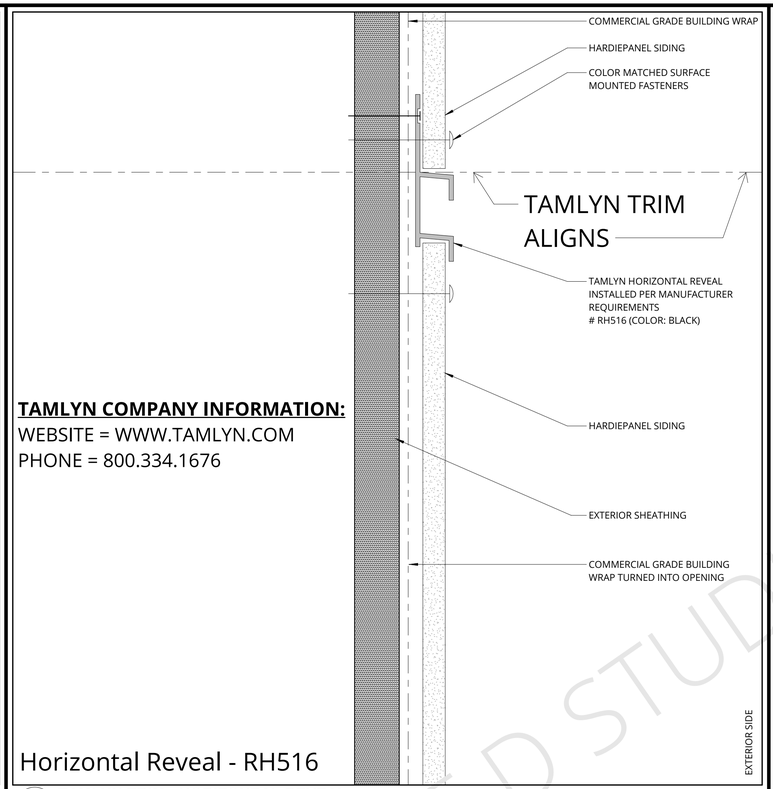
ENLARGED DETAILS

SHEET NO.

A-501

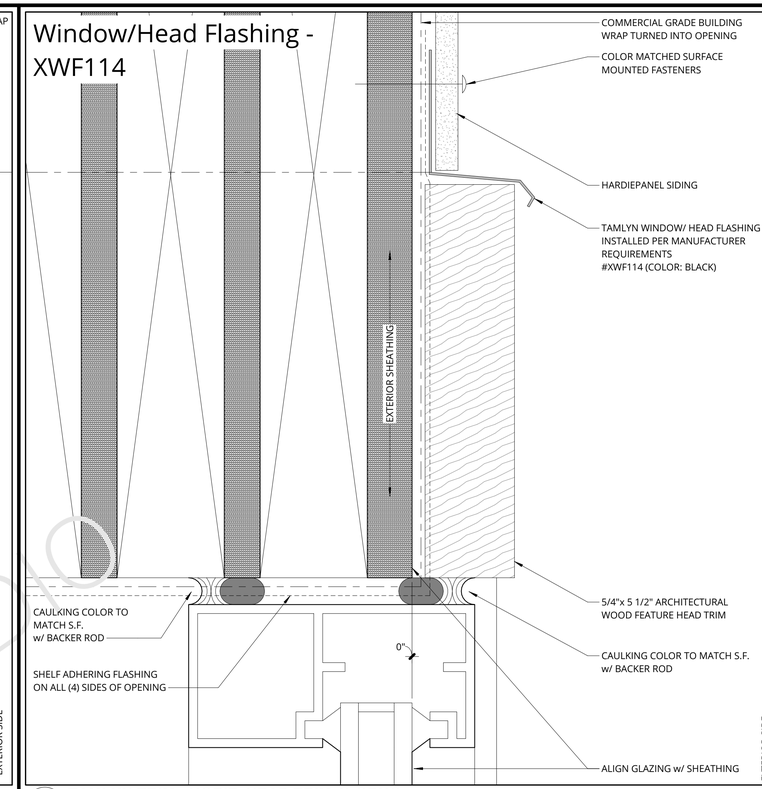


6 **TAMLYN TRIM - VERTICAL REVEAL TRIM @ OPNG.**
SCALE: 12" = 1'-0"

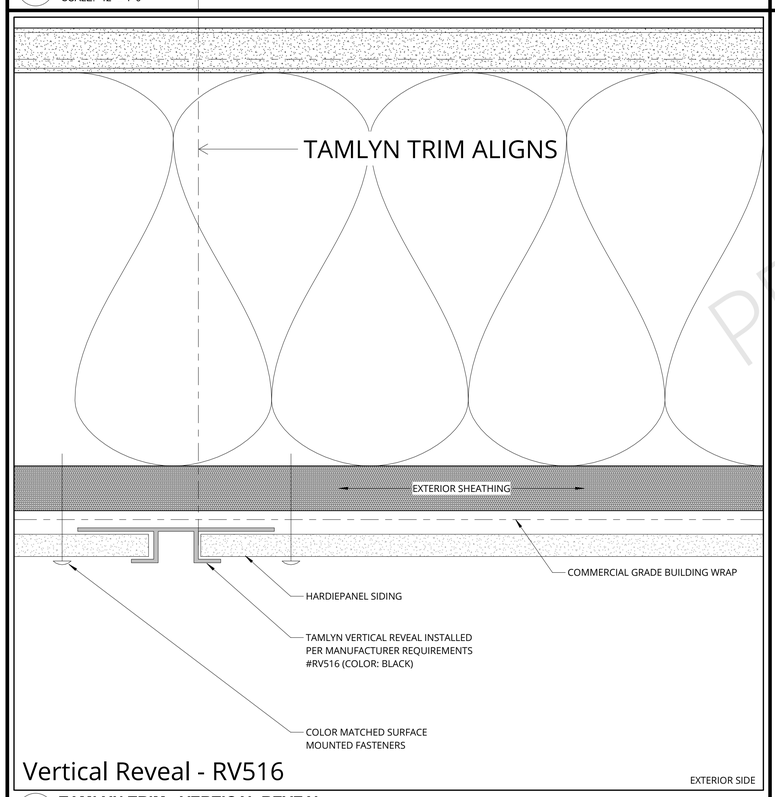


TAMLYN COMPANY INFORMATION:
WEBSITE = WWW.TAMLYN.COM
PHONE = 800.334.1676

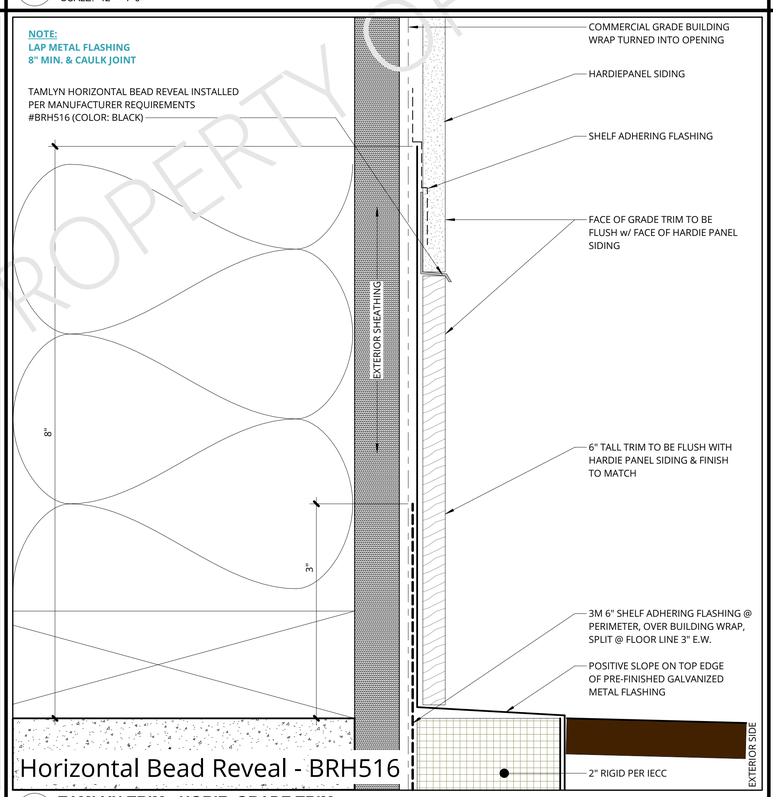
4 **TAMLYN TRIM - HORIZONTAL REVEAL**
SCALE: 12" = 1'-0"



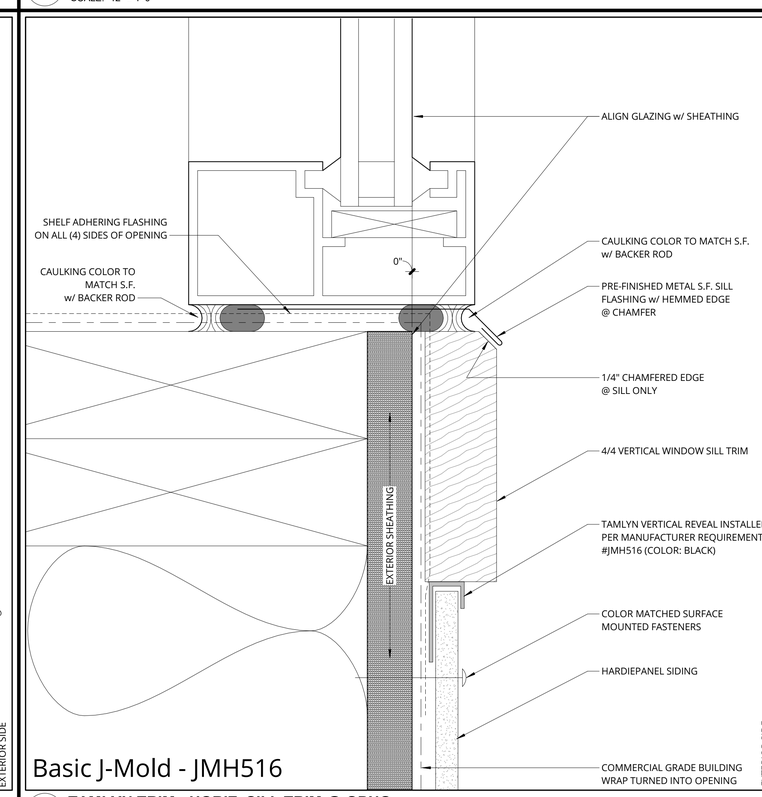
2 **TAMLYN TRIM - HORIZ. HEAD TRIM @ OPNG.**
SCALE: 12" = 1'-0"



5 **TAMLYN TRIM - VERTICAL REVEAL**
SCALE: 12" = 1'-0"



3 **TAMLYN TRIM - HORIZ. GRADE TRIM**
SCALE: 12" = 1'-0"



1 **TAMLYN TRIM - HORIZ. SILL TRIM @ OPNG.**
SCALE: 12" = 1'-0"

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DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS
- 03/29/2019 - Code Review
- 04/15/2019 - CD Set
- 04/30/2019 - ASI #1
- 05/21/2019 - ASI #2
- 05/29/2019 - ID Revisions
- 08/23/2019 - ASI #3

PLAN NO. = **90-154**

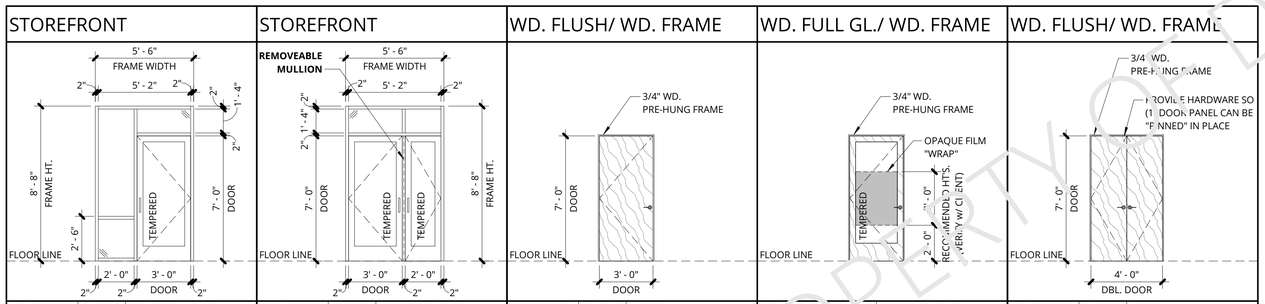
DWG. LIST
ENLARGED TAMLYN TRIM DETAILS

SHEET NO.
A-502

Door Schedule

Count	Mark	Room: Name	Door Size: Width	Door Size: Height	Door Size: Thickness	Insulated	Door Panel: Type	Door Panel: Material	Door Frame: Material	Door Trim Style: Trim N.A.	Door Trim Style: Flat Trim	Door Trim Style: Colonial Trim	Door Trim Style: Other Trim	Handle Types: Push/ Pull Handle	Handle Types: Lever Handle	Handle Types: Door Knob	Handle Types: Recessed Pocket Door Pull	Handle Types: Other - Handle Style	Lock Set Types: Panic Device	Lock Set Types: Dead Bolt	Lock Set Types: Electric Strike	Lock Set Types: Keypad Entry	Lock Set Types: Entry - Keyed Lock	Lock Set Types: Privacy Lock - By Button (i.e. Restroom)	Lock Set Types: Passage - Cannot be Locked (i.e. Egress Corridors)	Lock Set Types: Storage/ Closet Lock	Lock Set Types: "Dummy" (Does not Perform Function on Both Sides)	Seals & Weather Protection: Sound Seals	Seals & Weather Protection: Fire & Smoke Seals	Seals & Weather Protection: Weather Stripping	Seals & Weather Protection: Sweep	Seals & Weather Protection: Threshold	Seals & Weather Protection: ADA Threshold	Kickplate	Bumper - Floor Stop Style	Bumper - Wall Mounted Style	Closer	Lock Guard (Prevent Forced Entry)	Knox Box (Near This Door as Req.)	UL Label (Fire & Gas)	Fire Rating	Signage: Exit	Signage: ADA Exit Signage (+ Braille)	Signage: Restroom Signage	Signage: ADA "Unisex" Restroom Signage (+ Braille)	Signage: Room Signage	Comments
1	100a	VESTIBULE	3' - 0"	7' - 0"	1 3/4"	X	SF-1	Anodized Aluminum Storefront/ Temp. Glass	Anodized Aluminum Storefront	X				X					X				X							X	X		X				X						X				
1	100b	VESTIBULE	3' - 0"	7' - 0"	1 3/4"	X	SF-1	Anodized Aluminum Storefront/ Temp. Glass	Anodized Aluminum Storefront	X				X																X							X						X				
1	101	WAITING ROOM	3' - 0"	7' - 0"	1 3/4"		D-2	Solid Wood w/ Full Temp. Glass	Wood Pre-hung		X			X																							X						X				
1	102	STAFF	3' - 0"	7' - 0"	1 3/4"		D-2	Solid Wood w/ Full Temp. Glass	Wood Pre-hung		X				X										X																				
1	105	CONSULT	3' - 0"	7' - 0"	1 3/4"		D-2	Solid Wood w/ Full Temp. Glass	Wood Pre-hung		X				X										X																				X	
1	106	PATIENT RESTROOM	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X									X																			X		
1	114	DR'S. OFFICE	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X								X													X								X	
1	115	PRIVATE R.R.	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X									X																					
1	116a	BREAK ROOM	3' - 0"	7' - 0"	1 3/4"	X	SF-2	Anodized Aluminum Storefront/ Temp. Glass	Anodized Aluminum Storefront	X				X					X				X							X	X		X				X		X				X				
1	116b	BREAK ROOM	2' - 0"	7' - 0"	1 3/4"	X	SF-2	Anodized Aluminum Storefront/ Temp. Glass	Anodized Aluminum Storefront	X				X									X							X	X		X				X										Independant lock so door can remain shut most of the time
1	116c	BREAK ROOM	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X			X																						X						X				
1	117	STAFF RESTROOM	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X									X																				X		
1	118	MECH ROOM	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X											X																			X	
1	119	ASSOCIATE DR'S. OFFICE	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X								X													X								X	
1	120	PATIENT / STAFF RESTROOM	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X									X																				X	
1	123	LAB	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X										X																				
1	124	IT	4' - 0"	7' - 0"	1 3/4"		D-3	Solid Wood	Wood Pre-hung		X				X								X																						X	
1	127	STORAGE / FUTURE OP	3' - 0"	7' - 0"	1 3/4"		D-1	Solid Wood	Wood Pre-hung		X				X											X																			
1	133	QUIET OPERATORY	3' - 0"	7' - 0"	1 3/4"		D-2	Solid Wood w/ Full Temp. Glass	Wood Pre-hung		X				X										X			X																	X	

19



FRAME TYPE	GLAZING:	TEMPERED, LOW E 1" ARGON FILLED
SF-1	FRAME:	ALUMINUM STOREFRONT
	PANEL:	ALUMINUM STOREFRONT (HINGED)

FRAME TYPE	GLAZING:	TEMPERED, LOW E 1" ARGON FILLED
SF-2	FRAME:	ALUMINUM STOREFRONT w/ REMOVEABLE MULLION
	PANEL:	ALUMINUM STOREFRONT (HINGED) - DOUBLE

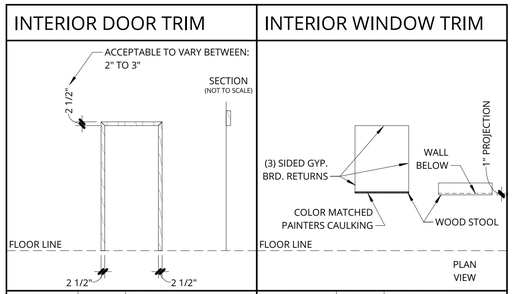
FRAME TYPE	GLAZING:	NONE
D-1	FRAME:	WOOD PRE-HUNG
	PANEL:	SOLID WOOD PANEL (HINGED)

FRAME TYPE	GLAZING:	TEMPERED GLASS w/ OPAQUE WRAP
D-2	FRAME:	WOOD PRE-HUNG
	PANEL:	SOLID WOOD FULL GLASS PANEL (HINGED)

FRAME TYPE	GLAZING:	NONE
D-3	FRAME:	WOOD PRE-HUNG
	PANEL:	SOLID WOOD PANELS (HINGED) - DOUBLE

1 DOOR ELEVATIONS

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

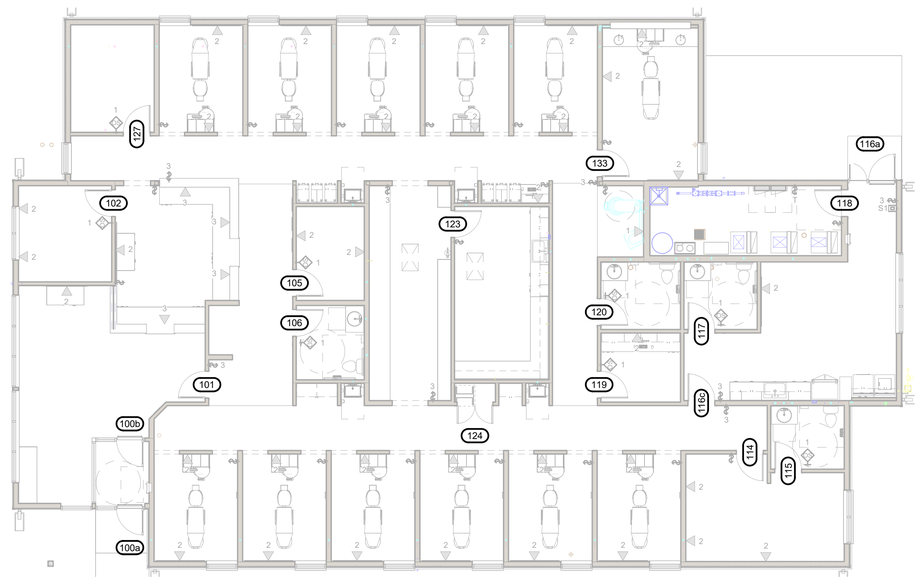


STYLE	TYPE:	SOLID WOOD (MITERED CORNERS)
MODERN (FLAT)	FINISH:	SEE: FINISH SELECTION SHEET

STYLE	TYPE:	SOLID WOOD
MODERN FLAT (STOOL ONLY)	FINISH:	SEE: FINISH SELECTION SHEET

2 TRIM ELEVATIONS

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



3 MAIN LEVEL DOOR TAG PLAN

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

DOOR PANELS, FRAMES & TRIM FINISHES NOTE:

SEE FINISH SELECTION SHEET FOR ALL DOOR PANEL, DOOR FRAMES, AND DOOR TRIM FINISHES.

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PLAN NO. = 90-154

DWG. LIST

DOOR SCHEDULE, DOOR PANEL, FRAME & TRIM ELEVATIONS WITH DOOR TAG PLAN

SHEET NO.

A-600

Abbreviation	Name
GLY	Glynn-Johnson Corp
IVE	H.B. Ives
LCN	Lcn Commercial Division
SCH	Schlage Lock Company
VON	Von Duprin
ZER	Zero International Inc

91877 OPT0324747 Version 3

Legend:
Link to catalog cut sheet
Electrified Opening

Hardware Group No. 010.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X A/G X ALF X --
100A/100A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	112XY TYPE AS REQ'D FOR DOOR		711	IVE
1	EA	PANIC HARDWARE	33A-NL-OP-388		US19/711	VON
1	EA	RIM CYLINDER	TYPE AS REQUIRED		622	SCH
1	EA	90 DEG OFFSET PULL	8190EZHD 12" O		BLK	IVE
1	EA	SURFACE CLOSER	4040XP EDA		693	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA		693	LCN
1	EA	BLADE STOP SPACER	4040XP-61		693	LCN
1	EA	EXTERIOR WALL STOP	WS443		BLK	IVE
1	EA	RAIN DRIP	142BK		BK	ZER
1	EA	DOOR SWEEP	39BK		BK	ZER
1	EA	THRESHOLD	655BK-223		BK	ZER

WEATHER STRIPPING BY ALUMINUM DOOR/FRAME MFG.

Hardware Group No. 020.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X A/G X ALF X --
100B/100B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		BBLK/622	IVE
1	EA	DUMMY PUSH BAR	330		711	VON
1	EA	90 DEG OFFSET PULL	8190EZHD 12" O		BLK	IVE
1	EA	SURFACE CLOSER	4040XP EDA		693	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA		693	LCN
1	EA	BLADE STOP SPACER	4040XP-61		693	LCN
1	EA	FLOOR STOP	FS410		BLK	IVE

Hardware Group No. 030.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X WD X WF X --
101/101 116C/116C

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		BBLK/622	IVE
1	EA	DOOR PULL, 3/4" RND	PR 8102HD 10" J		BLK	IVE
1	EA	SURFACE CLOSER	4040XP REG		693	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		BLK	IVE
1	EA	FLOOR STOP	FS410		BLK	IVE
3	EA	ADHESIVE SILENCER	SR66		GRY	IVE

PULLS TO BE BACK TO BACK MOUNTED

Hardware Group No. 040.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X WD X WF X --
102/102 105/105 123/123 133/133

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		BBLK/622	IVE
1	EA	PASSAGE SET	ALX10 TLR		622	SCH
1	EA	FLOOR STOP	FS410		BLK	IVE
3	EA	ADHESIVE SILENCER	SR66		GRY	IVE

Hardware Group No. 050.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X WD X WF X --
106/106 115/115 117/117 120/120

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		BBLK/622	IVE
1	EA	PRIVACY LOCK	ALX40 TLR		622	SCH
1	EA	FLOOR STOP	FS410		BLK	IVE
3	EA	ADHESIVE SILENCER	SR66		GRY	IVE

Hardware Group No. 060.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X WD X WF X --
114/114 119/119

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		BBLK/622	IVE
1	EA	ENTRANCE/OFFICE LOCK	ALX50P6 TLR		622	SCH
1	EA	FLOOR STOP	FS410		BLK	IVE
3	EA	ADHESIVE SILENCER	SR66		GRY	IVE

Hardware Group No. 070.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X A/G X ALF X --
116A/116A/B
(PAIR)

Provide each UEP door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	112XY TYPE AS REQ'D FOR DOOR		711	IVE
1	EA	PANIC HARDWARE	3347A-EO		711	VON
1	EA	PANIC HARDWARE	3347A-NL-OP-388		US19/711	VON
1	EA	RIM CYLINDER	TYPE AS REQUIRED		622	SCH
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O		BLK	IVE
2	EA	CONC OH STOP	100S		BLK	GLY
2	EA	SURFACE CLOSER	4040XP EDA		693	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA		693	LCN
2	EA	BLADE STOP SPACER	4040XP-61		693	LCN
1	EA	RAIN DRIP	142BK		BK	ZER
2	EA	DOOR SWEEP	39BK		BK	ZER
1	EA	THRESHOLD	655BK-223		BK	ZER

WEATHER STRIPPING BY ALUMINUM DOOR/FRAME MFG.

Hardware Group No. 080.0

For use on Door #(s):
36.000 X 84.000 X 1.750 X WD X WF X --
118/118 127/127

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		BBLK/622	IVE
1	EA	STOREROOM LOCK	ALX80P6 TLR		622	SCH
1	EA	FLOOR STOP	FS410		BLK	IVE
3	EA	ADHESIVE SILENCER	SR66		GRY	IVE

Hardware Group No. 090.0

For use on Door #(s):
48.000 X 84.000 X 1.750 X WD X WF X --
124/124

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5		BBLK/622	IVE
2	EA	MANUAL FLUSH BOLT	FB358		BLK	IVE
1	EA	DUST PROOF STRIKE	DP2		BLK	IVE
1	EA	ENTRANCE/OFFICE LOCK	ALX50P6 TLR		622	SCH
2	EA	OH STOP	450S		622	GLY
2	EA	ADHESIVE SILENCER	SR66		GRY	IVE

PROPERTY OF D STUDIO

DOOR PANELS, FRAMES & TRIM FINISHES NOTE:

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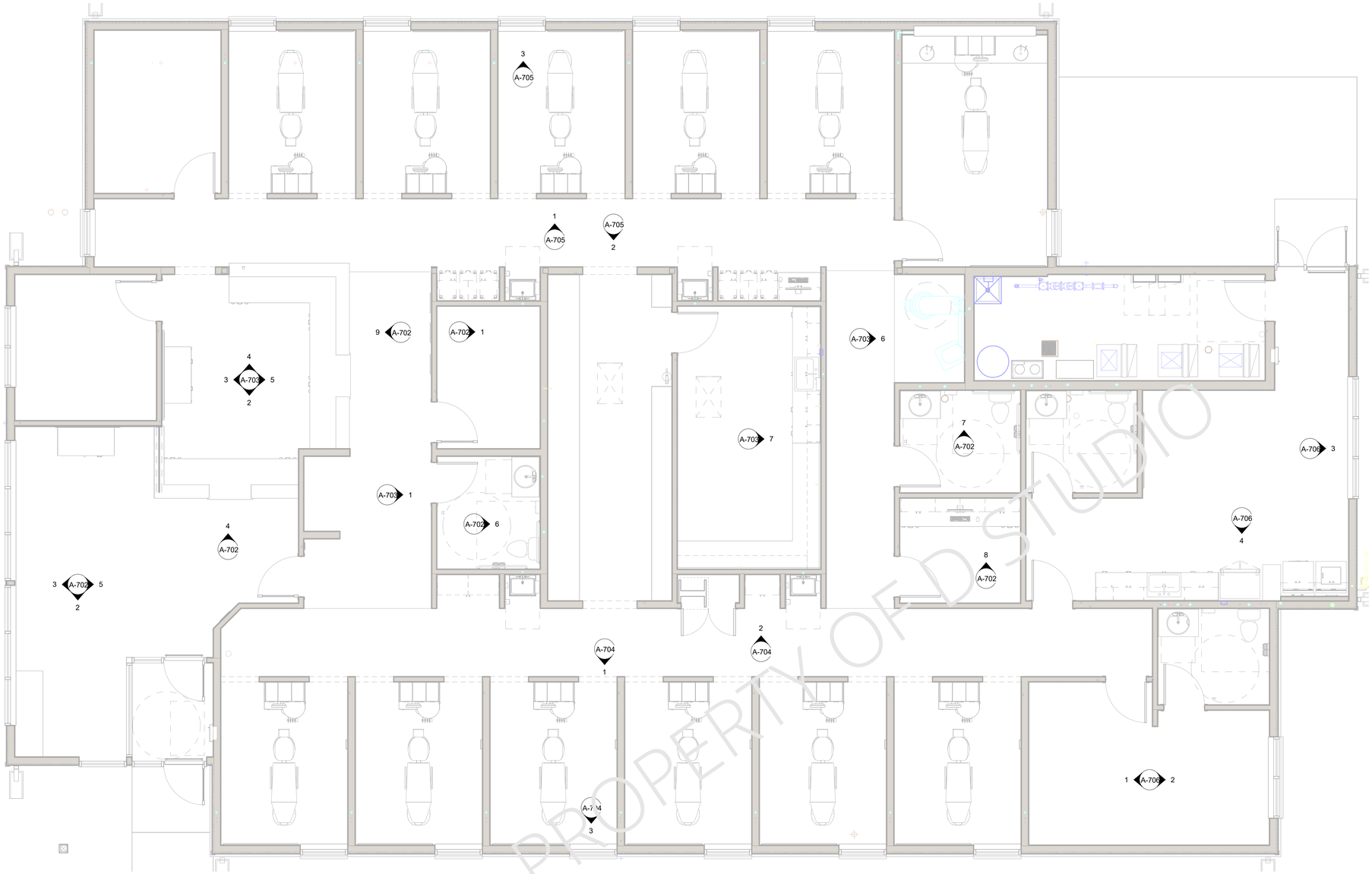
PLAN NO. = 90-154

DWG. LIST

DOOR HARDWARE SCHEDULE

SHEET NO.

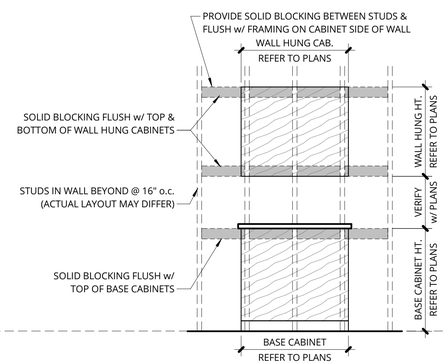
A-601



PROPERTY OF D STUDIO

1 INTERIOR ELEVATION CALLOUT PLAN

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



2 TYP. CABINET BLOCKING ELEVATION

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

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03/08/2023

REVISIONS

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05/31/2023 - Check Set
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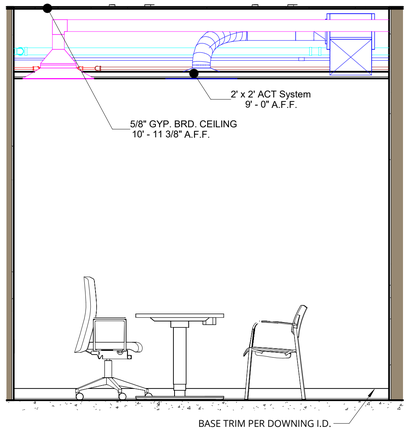
PLAN NO. = **90-154**

DWG. LIST

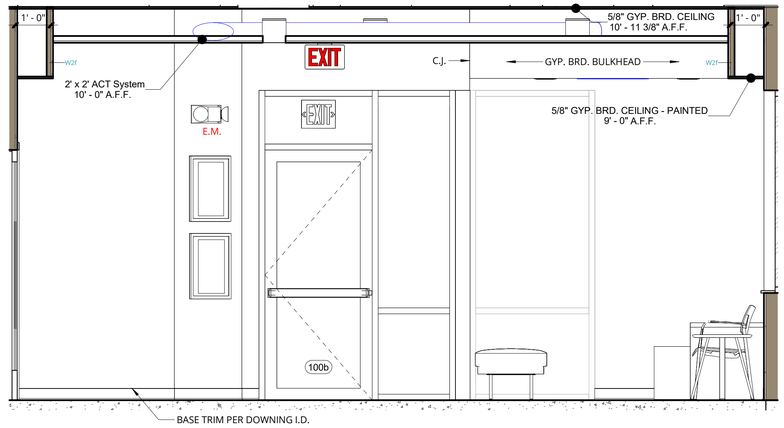
INTERIOR ELEVATION CALLOUT PLAN/ INTERIOR ELEVATIONS

SHEET NO.

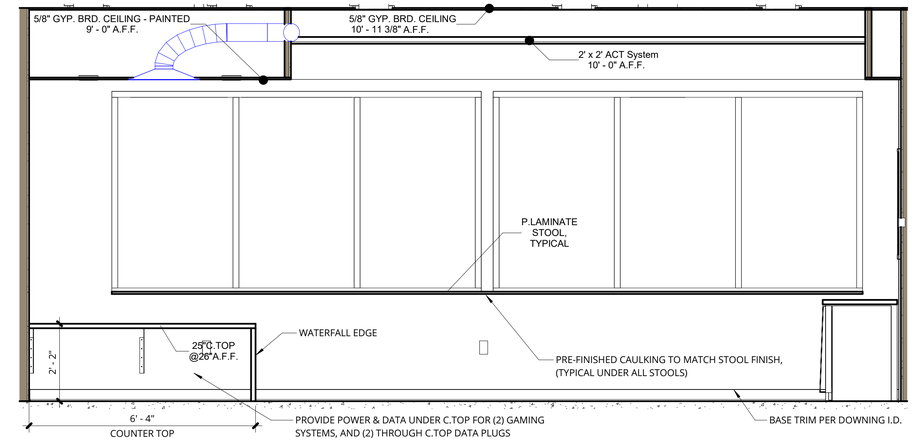
A-701



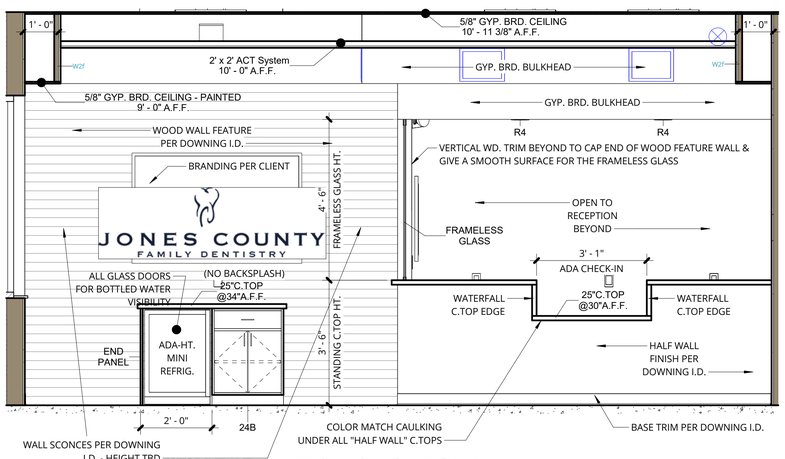
1 **CONSULTATION ELEVATION**
SCALE: 1/2" = 1'-0"



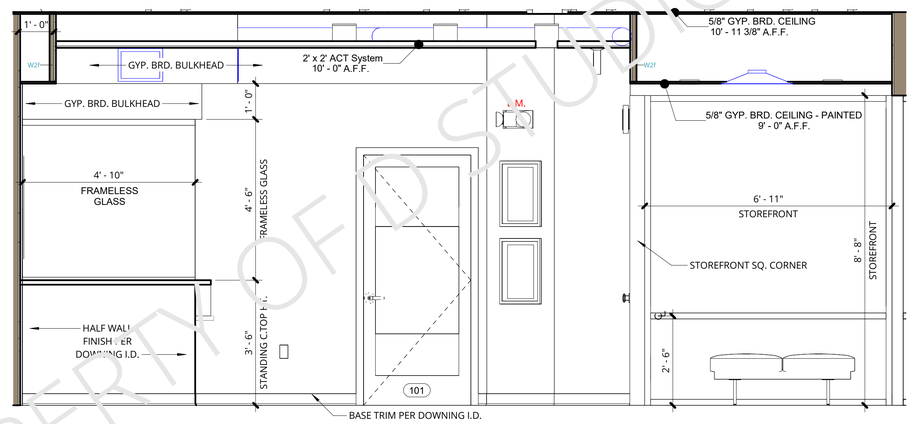
2 **WAITING ROOM ELEVATION-A**
SCALE: 1/2" = 1'-0"



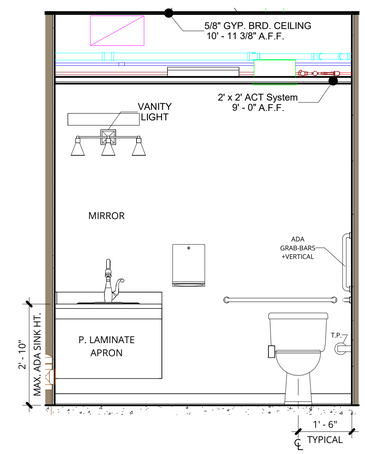
3 **WAITING ROOM ELEVATION-B - KIDS ZONE**
SCALE: 1/2" = 1'-0"



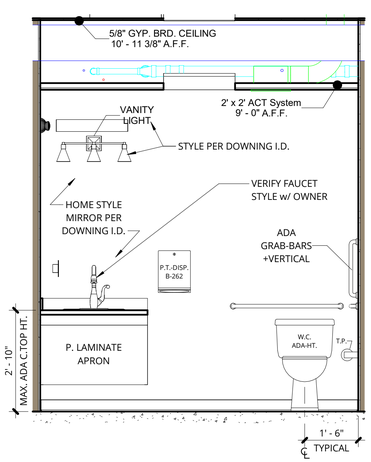
4 **WAITING ROOM ELEVATION-C - CHECK-IN**
SCALE: 1/2" = 1'-0"



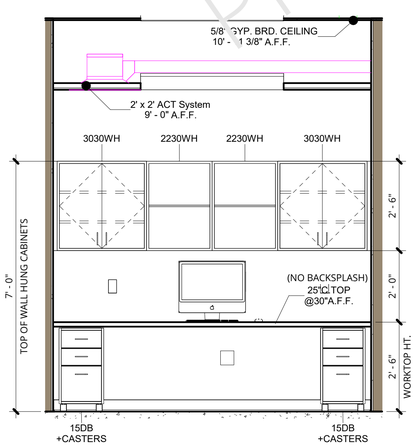
5 **WAITING ROOM ELEVATION-D**
SCALE: 1/2" = 1'-0"



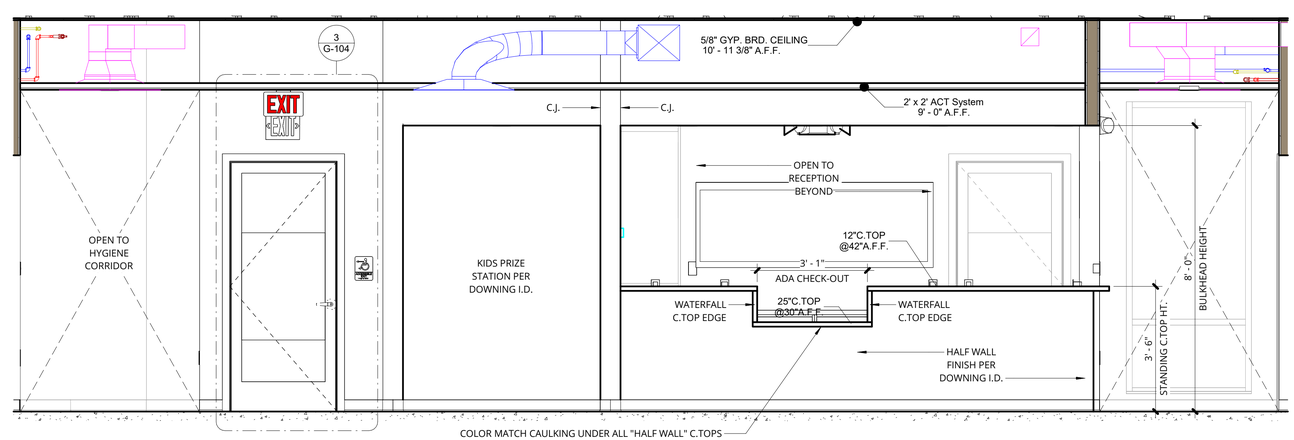
6 **PATIENT RESTROOM ELEVATION**
SCALE: 1/2" = 1'-0"



7 **TYP. RESTROOM ELEVATION-A**
SCALE: 1/2" = 1'-0"



8 **DR'S. OFFICE ELEVATION**
SCALE: 1/2" = 1'-0"



9 **CHECK-OUT ELEVATION-A**
SCALE: 1/2" = 1'-0"

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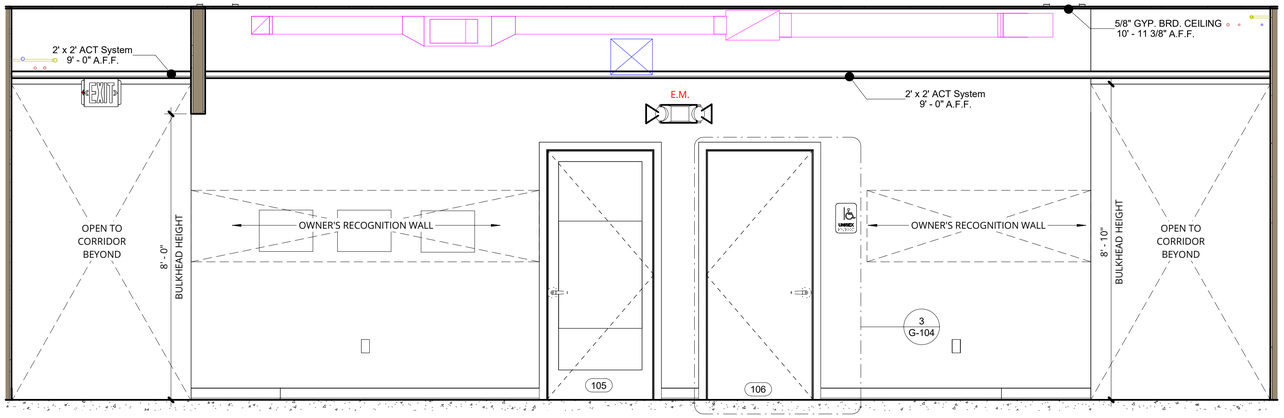
PLAN NO. = **90-154**

DWG. LIST

INTERIOR
ELEVATIONS

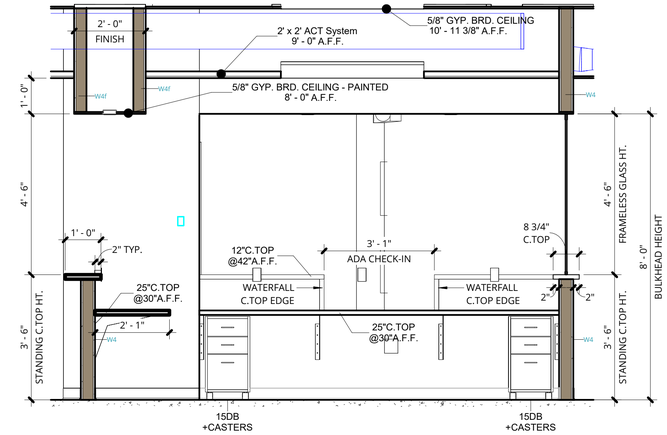
SHEET NO.

A-702



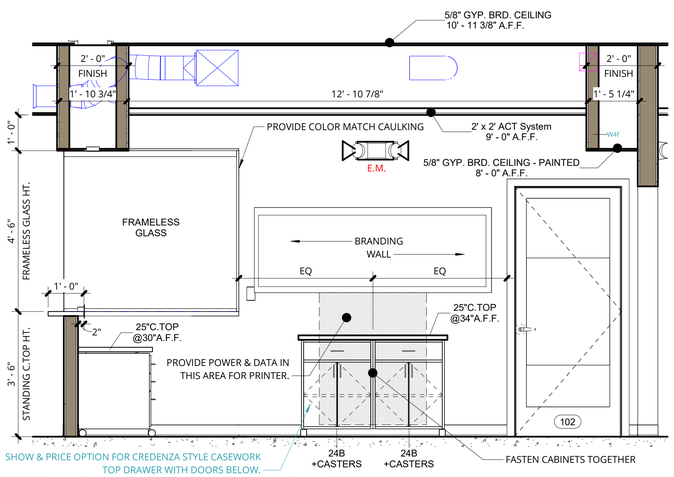
1 CHECK-OUT ELEVATION-B

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



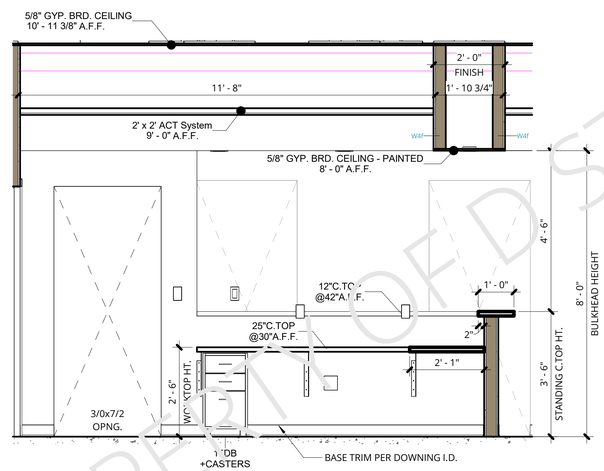
2 RECEPTION ELEVATION-A

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



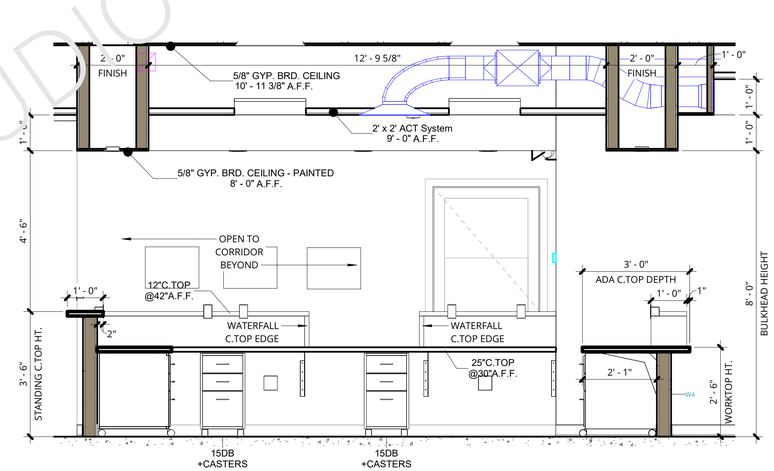
3 RECEPTION ELEVATION-B

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



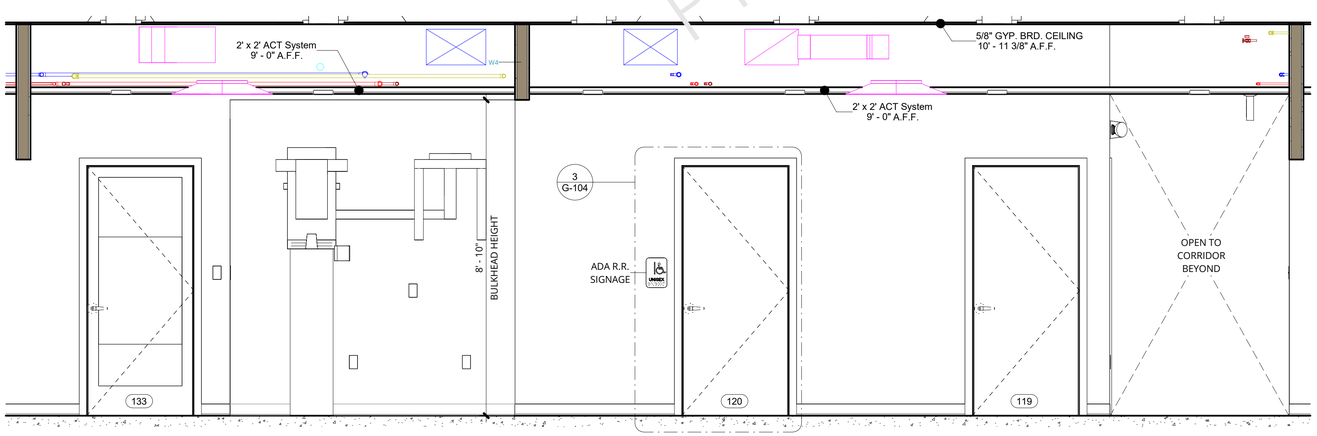
4 RECEPTION ELEVATION-C

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



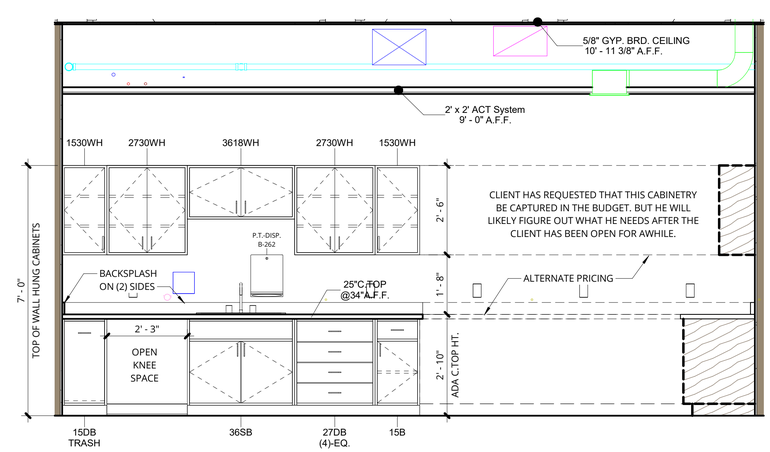
5 RECEPTION ELEVATION-D

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



6 IMAGING ELEVATION

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



7 LAB ELEVATION

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

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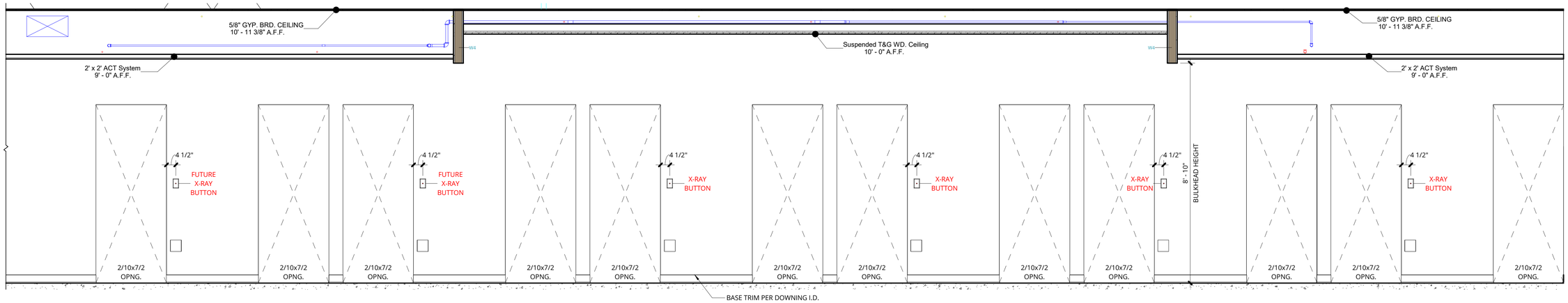
PLAN NO. = 90-154

DWG. LIST

INTERIOR
ELEVATIONS

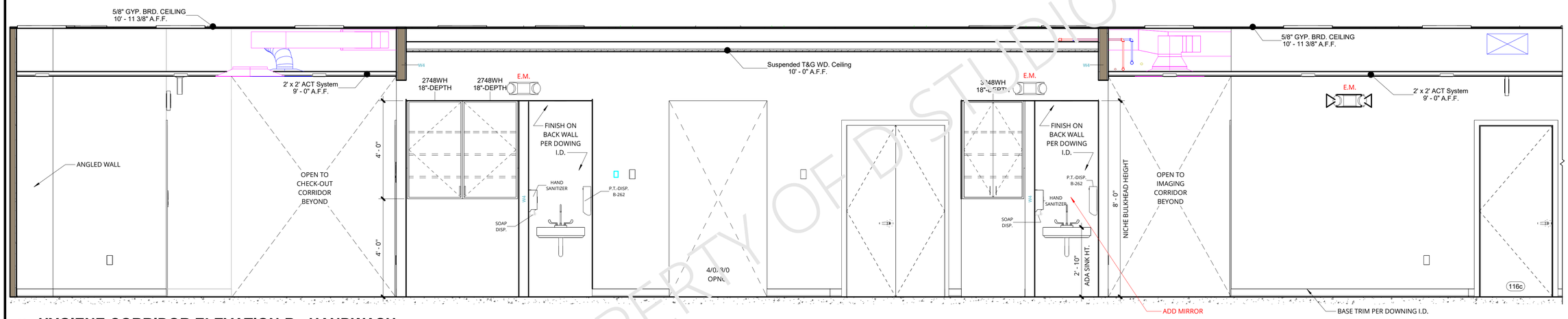
SHEET NO.

A-703



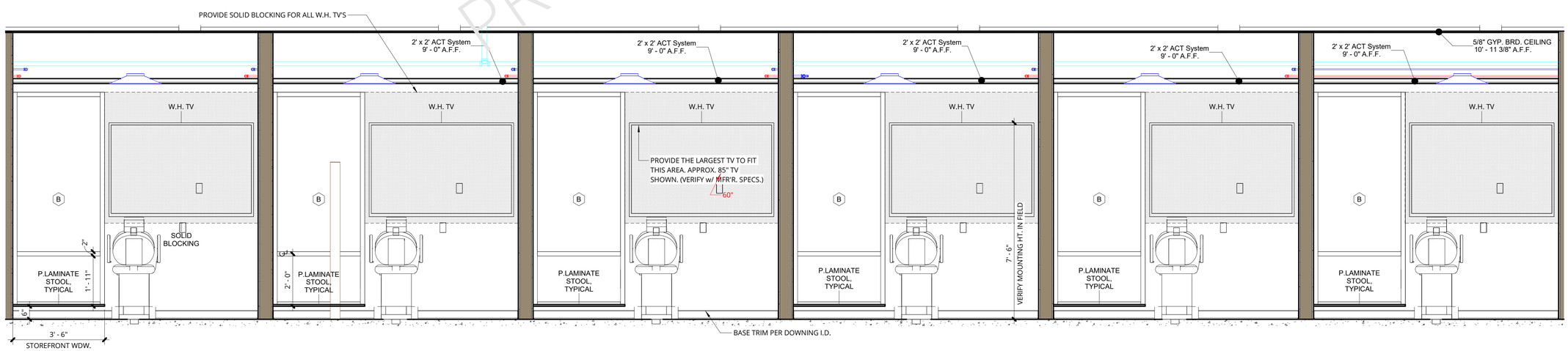
1 **HYGIENE CORRIDOR ELEVATION-A**

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



2 **HYGIENE CORRIDOR ELEVATION-B - HANDWASH**

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



3 **HYGIENE ELEVATION**

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

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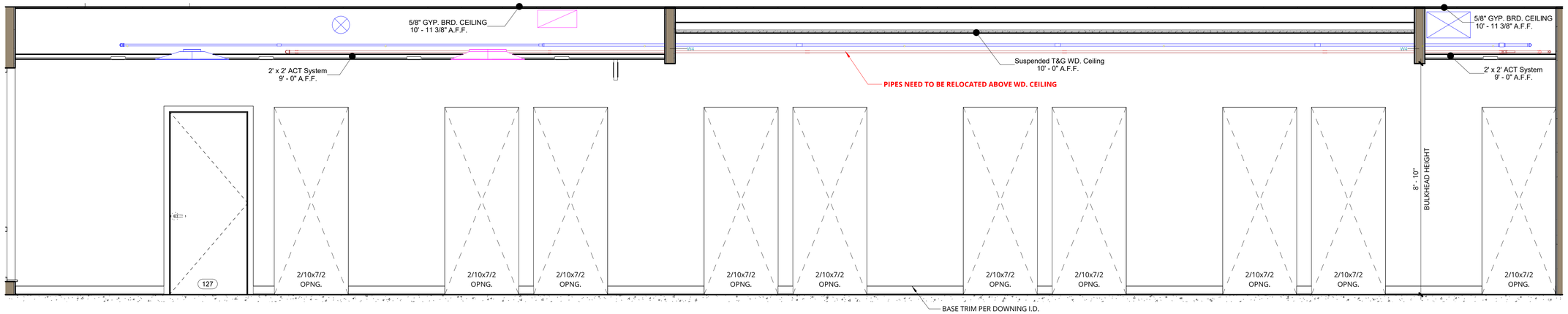
PLAN NO. = **90-154**

DWG. LIST

INTERIOR ELEVATIONS

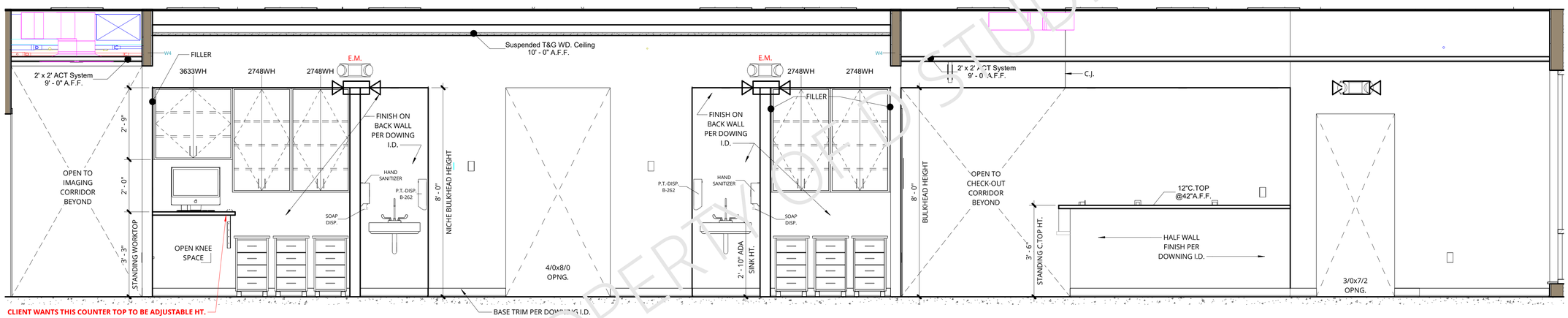
SHEET NO.

A-704



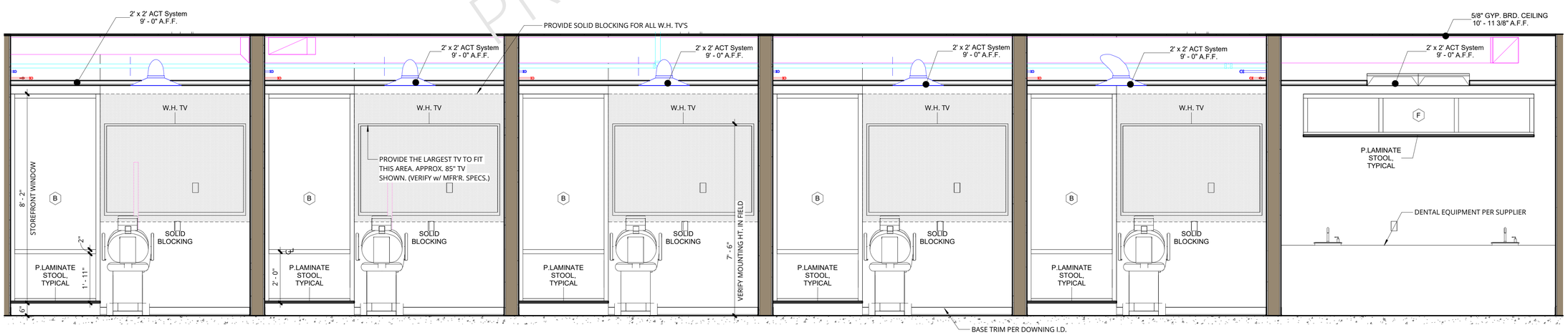
1 OPERATORY CORRIDOR ELEVATION-A

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



2 OPERATORY CORRIDOR ELEVATION-B - HANDWASH

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



3 OPERATORY ELEVATION

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

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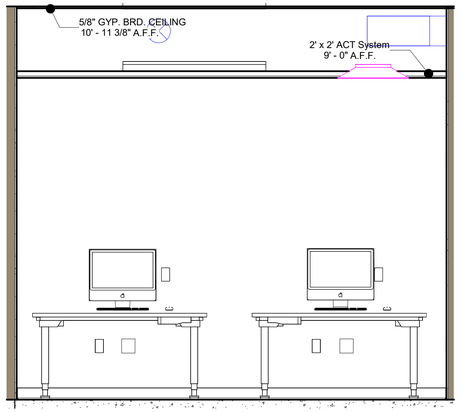
PLAN NO. = **90-154**

DWG. LIST

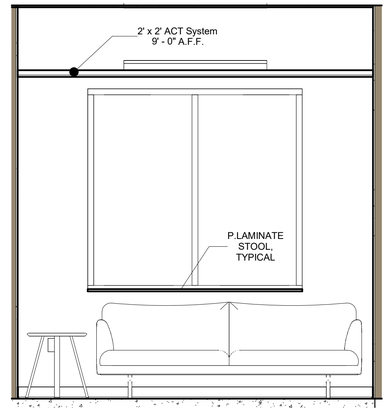
INTERIOR
ELEVATIONS

SHEET NO.

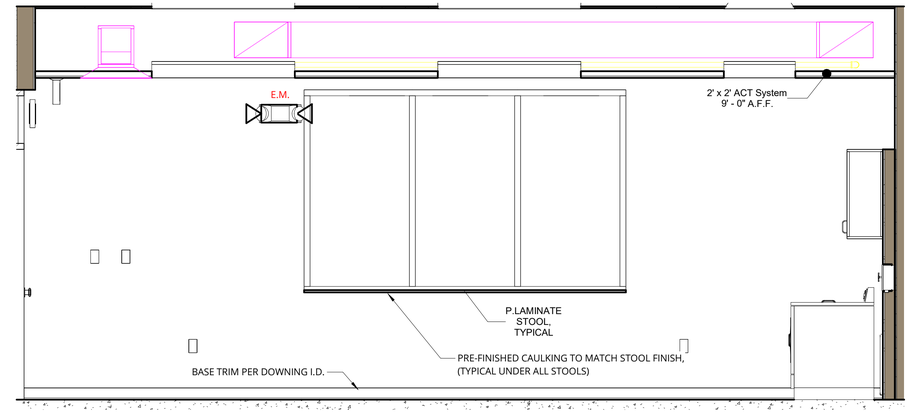
A-705



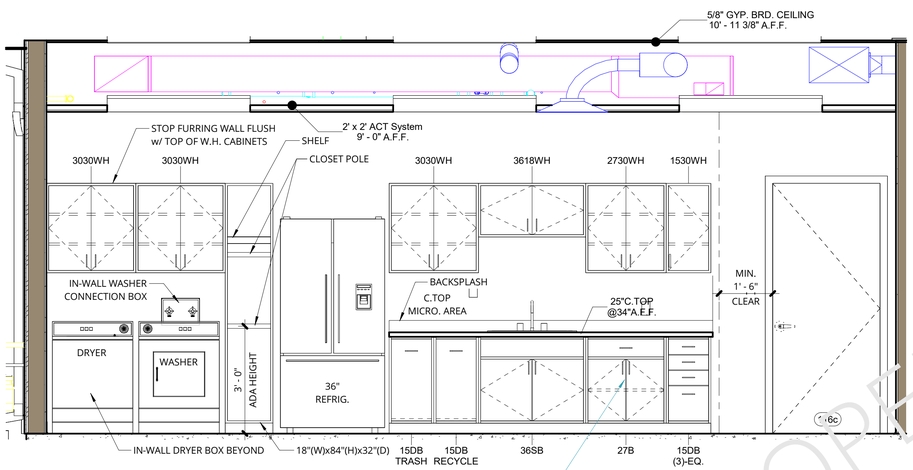
1 **DR'S. PRIVATE OFFICE ELEVATION-A**
SCALE: 1/2" = 1'-0"



2 **DR'S. PRIVATE OFFICE ELEVATION-B**
SCALE: 1/2" = 1'-0"



3 **BREAKROOM ELEVATION-A**
SCALE: 1/2" = 1'-0"



4 **BREAKROOM/ LAUNDRY ELEVATION-B**
SCALE: 1/2" = 1'-0"

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PLAN NO. = **90-154**

DWG. LIST

INTERIOR
ELEVATIONS

SHEET NO.

A-706

TYPICAL ELECTRICAL NOTES:

SEE SHEET G-001 FOR ALL NOTES, LEGENDS, AND CODE RELATED INFORMATION.

PROVIDE BID OPTION FOR SONOS:
- WIRELESS SYSTEM (CLIENT DOES NOT WANT WIRED)
- WANTS TRUE SONOS SYSTEM
  - WOULD STRONGLY PREFER NOT HAVING AN OFF BRAND
- SINGLE iPAD CONTROL STATION AT RECEPTION AREA
- SINGLE ZONE SYSTEM
  - MUSIC FUNTION
- BREAK OUT "WHITE NOISE" AS SEPERATE PRICING (IF DIFFERENT)
  - A "NICE TO KNOW PRICING" BUT NOT A HUGE DESIRE BY CLIENT
- SPEAKER LOCATIONS: HALLWAYS, WAITING NEAR KIDS ZONE ONLY, BREAKROOM, STERILIZATION.

MAIN LEVEL REFLECTED CEILING PLAN

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

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PLAN NO. = 90-154

DWG. LIST
MAIN LEVEL REFLECTED CEILING PLAN

SHEET NO.
A-801

1 **3D - SOUTHEAST**

SCALE:

2 **3D - NORTHWEST**

SCALE:

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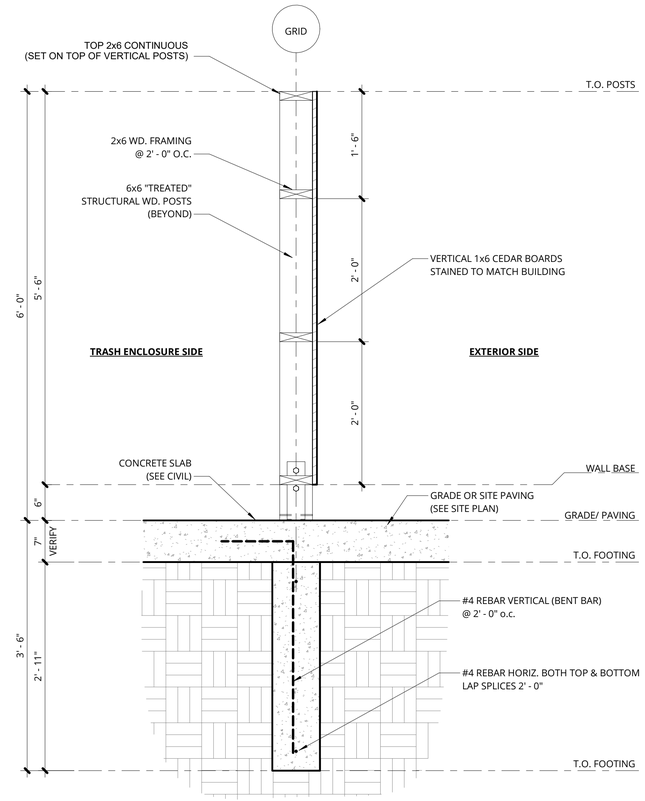
PLAN NO. = 90-154

DWG. LIST

3D IMAGES

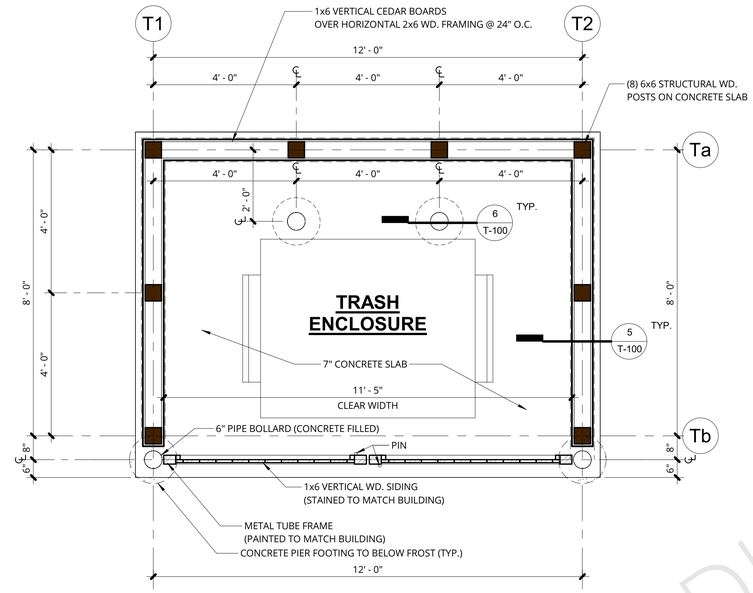
SHEET NO.

A-900



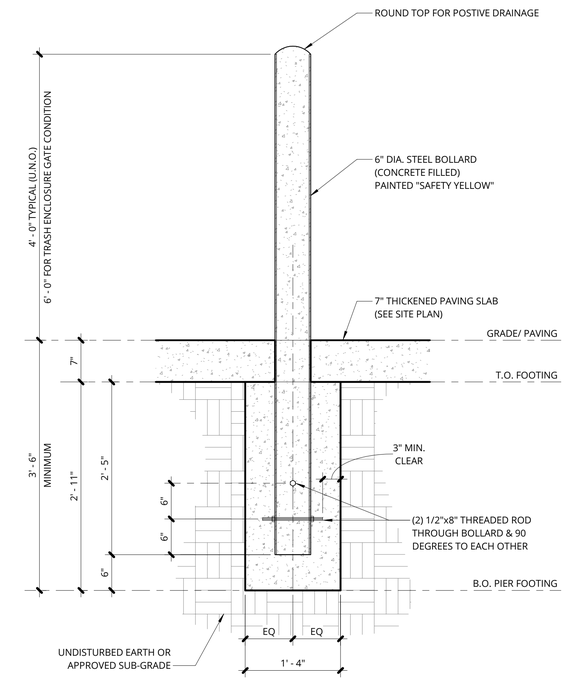
5 TYP. ENCL. WALL SECTION

SCALE: 1" = 1'-0"



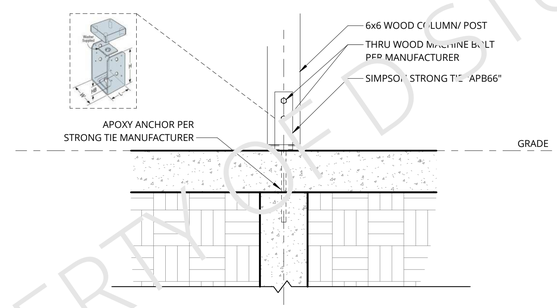
1 TRASH ENCLOSURE PLAN

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



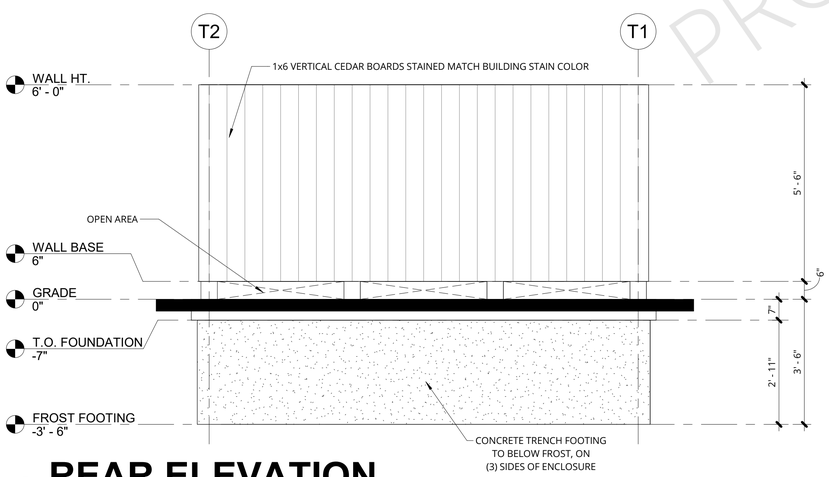
6 TYP. BOLLARD SECTION

SCALE: 1" = 1'-0"



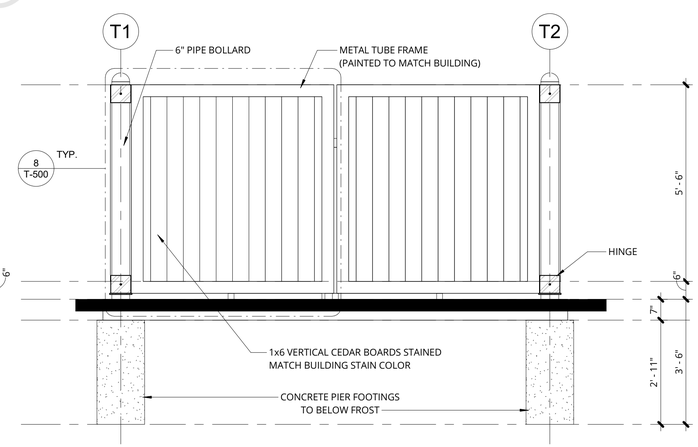
7 TYP. POST PIER SECTION

SCALE: 1" = 1'-0"



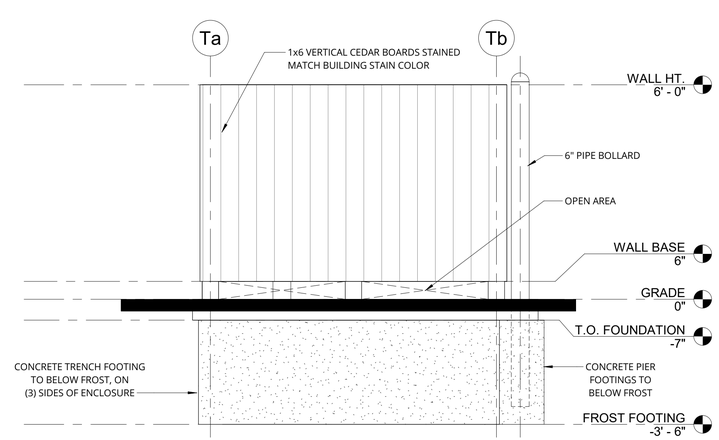
3 REAR ELEVATION

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



2 FRONT ELEVATION

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



4 SIDE ELEVATION

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

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ORIGINAL
CONSTRUCTION DOCUMENT
05/31/2023

REVISIONS

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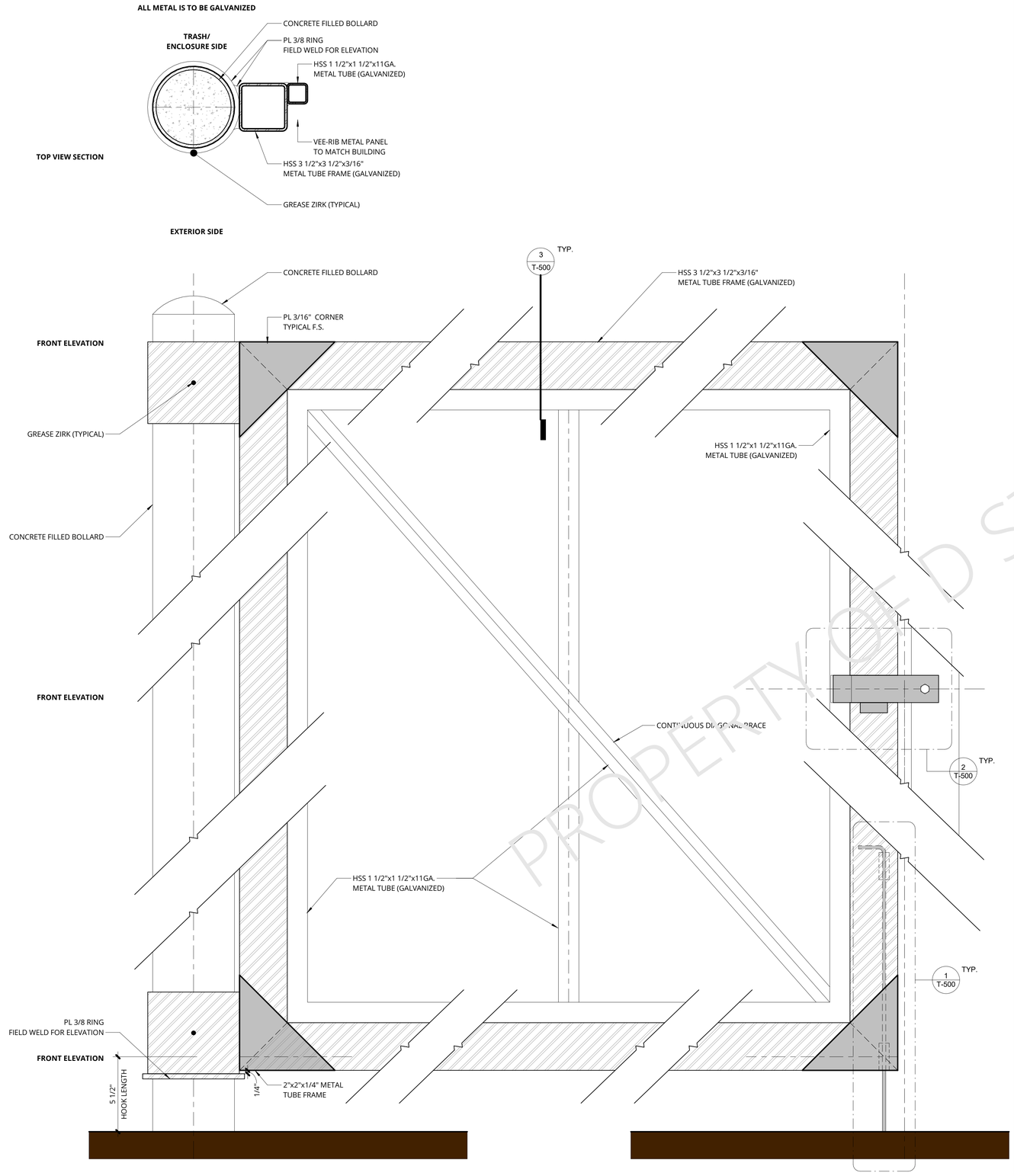
PLAN NO. = **90-154**

DWG. LIST

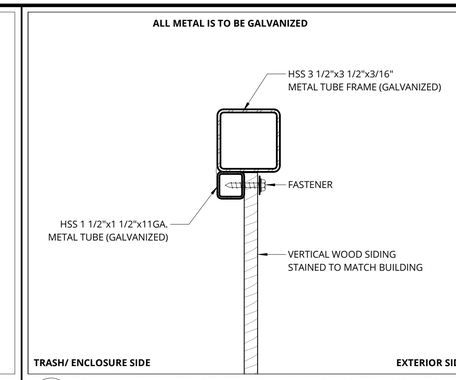
TRASH ENCLOSURE PLANS, ELEVATIONS, & SECTIONS

SHEET NO.

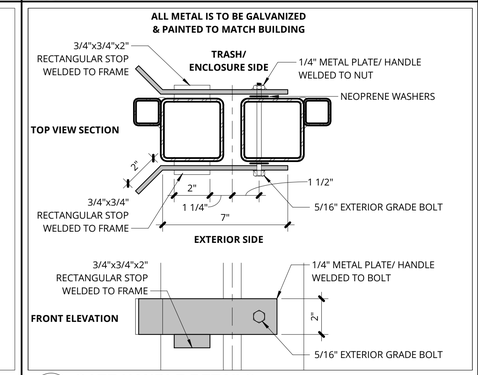
T-100



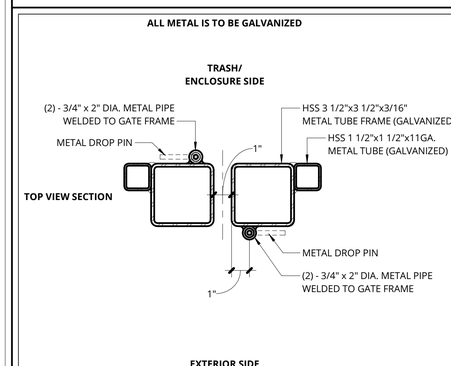
8 GATE/ DOOR FRAME ELEVATION
SCALE: 3" = 1'-0"



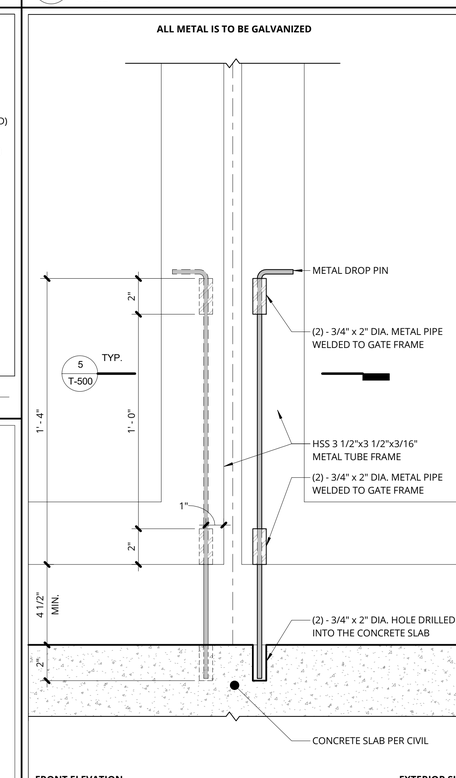
3 GATE FRAME SECTION DETAIL @ TOP & BOTTOM
SCALE: 3" = 1'-0"



2 GATE HANDLE DETAILS
SCALE: 3" = 1'-0"



5 GATE PIN SECTION DETAIL
SCALE: 3" = 1'-0"



1 GATE PIN ELEVATION DETAIL
SCALE: 3" = 1'-0"

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ORIGINAL
CONSTRUCTION DOCUMENT
05/31/2023

REVISIONS

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PLAN NO. = **90-154**

DWG. LIST

TRASH ENCLOSURE
GATE DETAILS

SHEET NO.

T-500

HVAC - NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING SUPPLY, RETURN, EXHAUST, AND VENTILATION DUCTWORK; MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, DIFFUSERS, GRILLES, REGISTERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED BY ARCHITECT/ENGINEER.
4. ALL DUCT DIMENSIONS INDICATED ARE INTERIOR FREE AREA DUCT DIMENSIONS AND DO NOT INCLUDE INSULATION REQUIREMENTS.
5. SEAL ALL WALL AND FLOOR DUCT PENETRATIONS. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
6. CONTINUE DUCT AND PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK. SEAL AROUND DUCT INSULATION AT WALL PENETRATIONS.

PLUMBING - NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. PROVIDE A COMPLETE PLUMBING SYSTEM INCLUDING PIPE, INSULATION, HANGERS, SUPPORTS, EQUIPMENT, WATER HEATERS, FIXTURES, MIXING VALVES, VALVES, ACCESSORIES AND SPECIALTIES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL PLUMBING SYSTEM PER PLUMBING CODE. COMPLY WITH ALL LOCAL AND STATE CODES AND OWNER'S REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PLUMBING SYSTEM.
4. SEAL ALL WALL PIPE PENETRATIONS. PROVIDE THROUGH-PENETRATION FIRESTOPPING WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR WALL, FLOOR, AND CEILING ASSEMBLY RATINGS.
5. CONTINUE PIPE INSULATION THROUGH WALL, FLOOR, AND CEILING PENETRATIONS UNBROKEN. SEAL AROUND PIPE INSULATION AT PENETRATIONS.
6. PROVIDE MEDICAL GAS CERTIFICATION REQUIRED FOR MEDICAL GAS MODIFICATIONS MADE TO THE OXYGEN AND MEDICAL AIR SYSTEMS. PROVIDE CERTIFICATION PER NFPA 99, 2012 VERSION, AND PER SPECIFICATIONS.
7. VERIFY WITH ENGINEER FOR ANY FIXTURES NOT TAGGED OR PIPED PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING FIXTURES SHOWN ON ARCHITECTURAL DRAWINGS; TAGGED OR NOT TAGGED ON PLUMBING / MECHANICAL DRAWINGS UNLESS SPECIFICALLY NOTED AS EXCLUDED FROM SCOPE.

IOWA ONE CALL
1-800-292-8989
CALL - BEFORE - YOU - DIG

CALL 811 BEFORE YOU DIG

GENERAL NOTE:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

MECHANICAL ABBREVIATIONS

ABSOR	ABSORPTION
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR OR AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AV	AIR VENT
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALL VALVE
CA	COMPRESSED AIR
CB	CATCH BASIN
CENT	CENTRIFUGAL
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CL	CENTER LINE
COND	CONDENSATE
CO	CLEAN OUT
CONC	CONCRETE
CONTR	CONTRACTOR
CP	CONDENSATE PUMP/CIRC. PUMP
CU	COPPER
CUH	CABINET UNIT HEATER
CWP	CIRCULATING WATER PUMP
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
EA	EXHAUST AIR
EAT	EXHAUST AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDBT	ENTERING DRY BULB TEMPERATURE
EEW	EMERGENCY EYE WASH
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EQUIP	EQUIPMENT
ESE	EMERGENCY SHOWER/EYEWASH
EST	EXTERNAL STATIC PRESSURE
EWBT	ENTERING WET BULB TEMPERATURE
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
FAI	FRESH AIR INTAKE
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FLEX	FLEXIBLE
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONSULTANT
FT	FINTUBE
FTG	FOOTING
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GW	GREASE WASTE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HR	HOUR
HTG	HEATING
HB	HOSE BIBB
ISP	INTERNAL STATIC PRESSURE
JR	JANITOR RECEPTOR
LAV	LAVATORY
LDBT	LEAVING DRY BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LWBT	LEAVING WET BULB TEMPERATURE
MB	MOP BASIN
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MH	MANHOLE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OVERFLOW ROOF DRAIN
PC	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
PRV	POWER ROOF VENTILATOR
PRV	PRESSURE REDUCING VALVE
PV	PRESSURE VENT
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RD	ROOF DRAIN
RH	RELATIVE HUMIDITY
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
RVT	ROOF VENT TERMINATION
SK	SINK
SA	SUPPLY AIR
SH	SHOWER
SO	STORM OVERFLOW
ST	STORM
TCC	TEMPERATURE CONTROL CONTRACTOR
TYP	TYPICAL
UH	UNIT HEATER
UR	URINAL
UV	UNIT VENTILATOR
VA	VENTILATION AIR
VTR	VENT THROUGH ROOF
WB	WALL BOX – CONDENSATE
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER

MECHANICAL - GENERAL NOTES

1. COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. WARNING - CALL 48 HOURS BEFORE YOU DIG: LAW REQUIRES ANYONE DOING ANY EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE CALL 811.
4. REFER TO ARCHITECTURAL SPECIFICATIONS FOR THROUGH-PENETRATION FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS, FLOORS, AND CEILINGS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
5. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
6. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
7. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
8. OPENINGS IN THE BUILDING THAT ARE REQUIRED TO BRING IN NEW EQUIPMENT. PATCH ALL OPENINGS CREATED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. INCLUDE THIS WORK IN BID.
9. ON COMPLETION OF THE INSTALLATION, COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF EQUIPMENT.
10. PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE. WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

PIPING LEGEND - PLUMBING

CA	COMPRESSED AIR
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
DSW	DOMESTIC SOFT WATER
G	NATURAL GAS
GV	NATURAL GAS VENT
NPCW	NON-POTABLE COLD WATER
PD	PUMPED DISCHARGE
RHW	RECIRCULATING HOT WATER
SAN	SANITARY
V	VENT

PIPE FITTINGS

SINGLE LINE	DOUBLE LINE
ELBOW	ELBOW
ELBOW - DOUBLE BRANCH	ELBOW - DOUBLE BRANCH
ELBOW - OUTLET DOWN	ELBOW - OUTLET DOWN
ELBOW - OUTLET UP	ELBOW - OUTLET UP
ELBOW - LONG RADIUS	ELBOW - LONG RADIUS
ELBOW - SHORT RADIUS	ELBOW - SHORT RADIUS
45° ELBOW	45° ELBOW
TEE - VENT	TEE - VENT
TEE - SANITARY	TEE - SANITARY
TEE - OUTLET DOWN	TEE - OUTLET DOWN
TEE - OUTLET UP	TEE - OUTLET UP
TEE - SIDE OUTLET DOWN	TEE - SIDE OUTLET DOWN
TEE - SIDE OUTLET UP	TEE - SIDE OUTLET UP
CROSS - VENT	CROSS - VENT
CROSS - SANITARY	CROSS - SANITARY
LATERAL	LATERAL
TEE - SINGLE SWEEP "COMBO WYE"	TEE - SINGLE SWEEP "COMBO WYE"
REDUCER - CONCENTRIC	REDUCER - CONCENTRIC
REDUCER - ECCENTRIC	REDUCER - ECCENTRIC
CAPPED CONNECTION	CAPPED CONNECTION
FLANGED CONNECTION	FLANGED CONNECTION

PLUMBING ACCESSORY LEGEND

HB	HOSE BIBB
RH	ROOF HYDRANT
CO	CLEAN OUT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
#" VTR	VENT THRU ROOF (# DENOTES PIPE DIAMETER)
RD / ORD	ROOF DRAIN / OVERFLOW ROOF DRAIN
RD	COMBO ROOF/OVERFLOW DRAIN
LT	LAMB TONGUE
	BACKFLOW PREVENTER
	VALVE - BALL / SHUT-OFF

NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT

GENERAL SYMBOLS

	EXISTING = HALFTONE LINEWORK
	NEW = DARK LINEWORK
	BELOW GRADE = LONG DASHED DARK LINEWORK
	NEW CONNECTION POINT
	POINT OF DISCONNECT
#	KEYNOTE
XXX / X	EQUIPMENT IDENTIFICATION TAG
SIM 1 / A101	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
SIM 1 / A101	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
A101 Ref	INTERIOR ELEVATION DRAWING REFERENCE TAG

H.V.A.C. / DUCTWORK SYMBOLS

RECT.	RND.	OVAL	
			SUPPLY (SA), OUTSIDE (OA), VENTILATION (VA) AIR DUCT (UP / DOWN / SECTION)
			RETURN (RA) AIR DUCT (UP / DOWN / SECTION)
			EXHAUST (EA) AIR DUCT (UP / DOWN / SECTION)
10/6 SA			RECTANGULAR DUCT (WIDTH / HEIGHT / SYSTEM)
	10 Ø SA		ROUND DUCT (DIAMETER / SYSTEM)
		10/6 Ø SA	FLAT OVAL DUCT (WIDTH / HEIGHT / SYSTEM)
			SUPPLY DIFFUSER
			SUPPLY REGISTER OR GRILLE
			LINEAR SLOT DIFFUSER
			RETURN REGISTER OR GRILLE
			EXHAUST REGISTER OR GRILLE
AD			DUCT ACCESS DOOR
			DUCT END CAP
			TURNING VANES
			VAV TERMINAL UNIT
			FLEXIBLE DUCTWORK
R			ELEVATION CHANGE (RISE OR DROP)
			HIGH EFF. TAKE OFF FITTING w/ VOLUME DAMPER
BD			BACKDRAFT DAMPER
			OPPOSED BLADE DAMPER
			PARALLEL BLADE DAMPER
			VOLUME DAMPER
FD			FIRE DAMPER
SD			SMOKE DAMPER
FSD			FIRE/SMOKE DAMPER
M			MOTORIZED ACTUATOR
T			THERMOSTAT
C			CARBON MONOXIDE SENSOR
H			HUMIDISTAT
			SIDE WALL DIFFUSER
			ROUND DIFFUSER
			EXTERIOR LOUVER
X-# / #x#/CFM			FIXTURE IDENTIFICATION TAG / NECK SIZE / CFM

PIPING LEGEND - MECHANICAL

CD	CONDENSATE DRAIN
EA	EXHAUST PIPE - PVC
RS	REFRIGERANT GAS
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID

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JONES COUNTY FAMILY DENTAL
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Anamosa, Iowa 52205

Project No: 23092
Date: 09/02/21
PERMIT SET

#	Revision	Date

Drawing Name:
MECHANICAL GENERAL NOTES & SYMBOLS

Drawing #:
M-000

Plot Date & Time: 6/5/2023 6:17:16 AM

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GENERAL NOTES:

A. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.

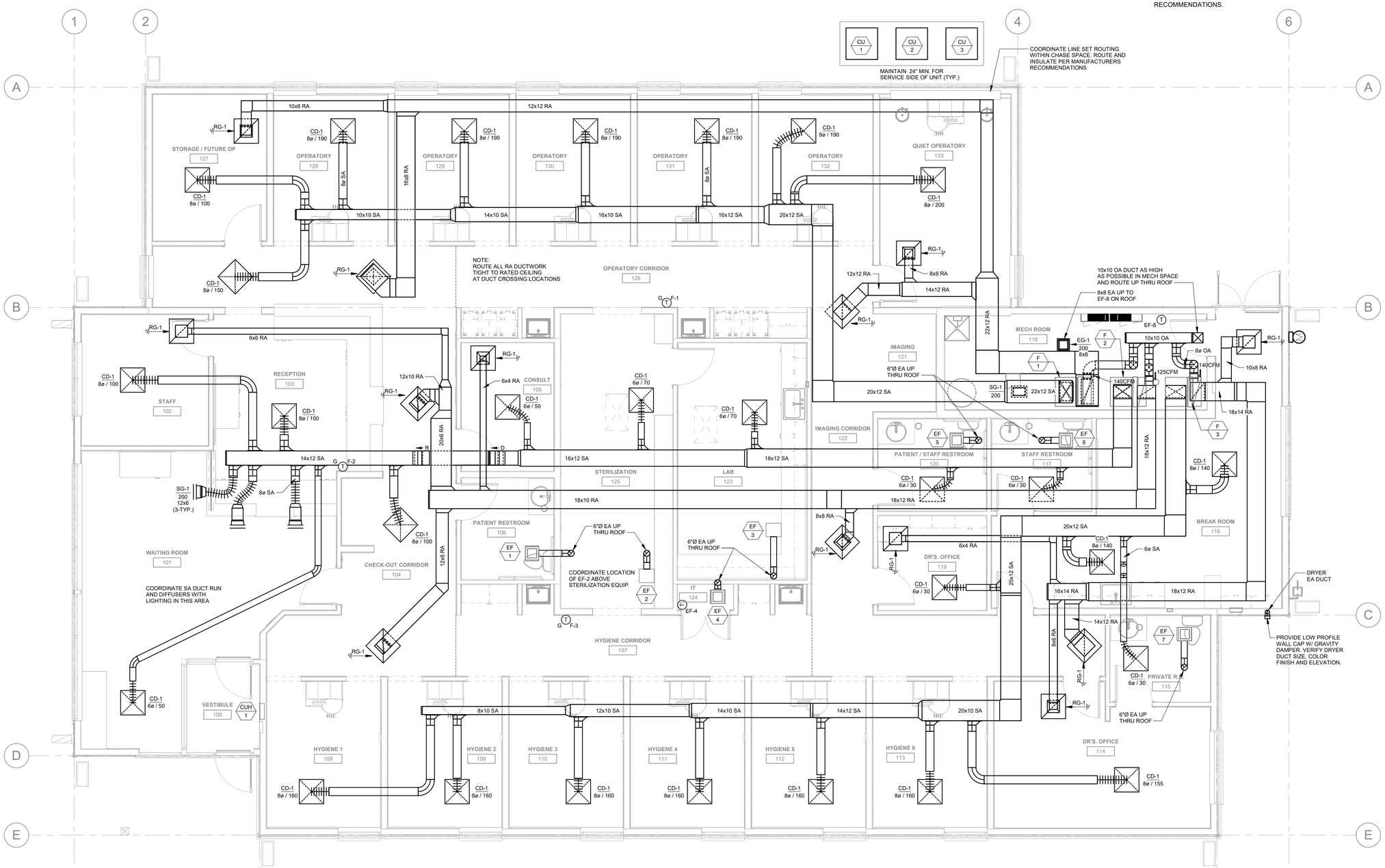
B. REFER TO M-500 FOR MECHANICAL DETAILS.

C. REFER TO M-600 FOR MECHANICAL SCHEDULES.

D. BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE.

E. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 60", WITH MAXIMUM OF ONE 90 DEGREE ELBOW.

F. ROUTE AND SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS.



1 MAIN LEVEL MECHANICAL PLAN

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

KCL ENGINEERING

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DOWNING
JONES COUNTY FAMILY DENTAL

3201 SE 37th Street
Anamosa, Iowa 52205

Project No:	23092
Date:	09/02/21

PERMIT SET

Revision	Date

Drawing Name:
MECHANICAL PLAN

Drawing #:
M-101

Plot Date & Time: 6/5/2023 6:17:20 AM

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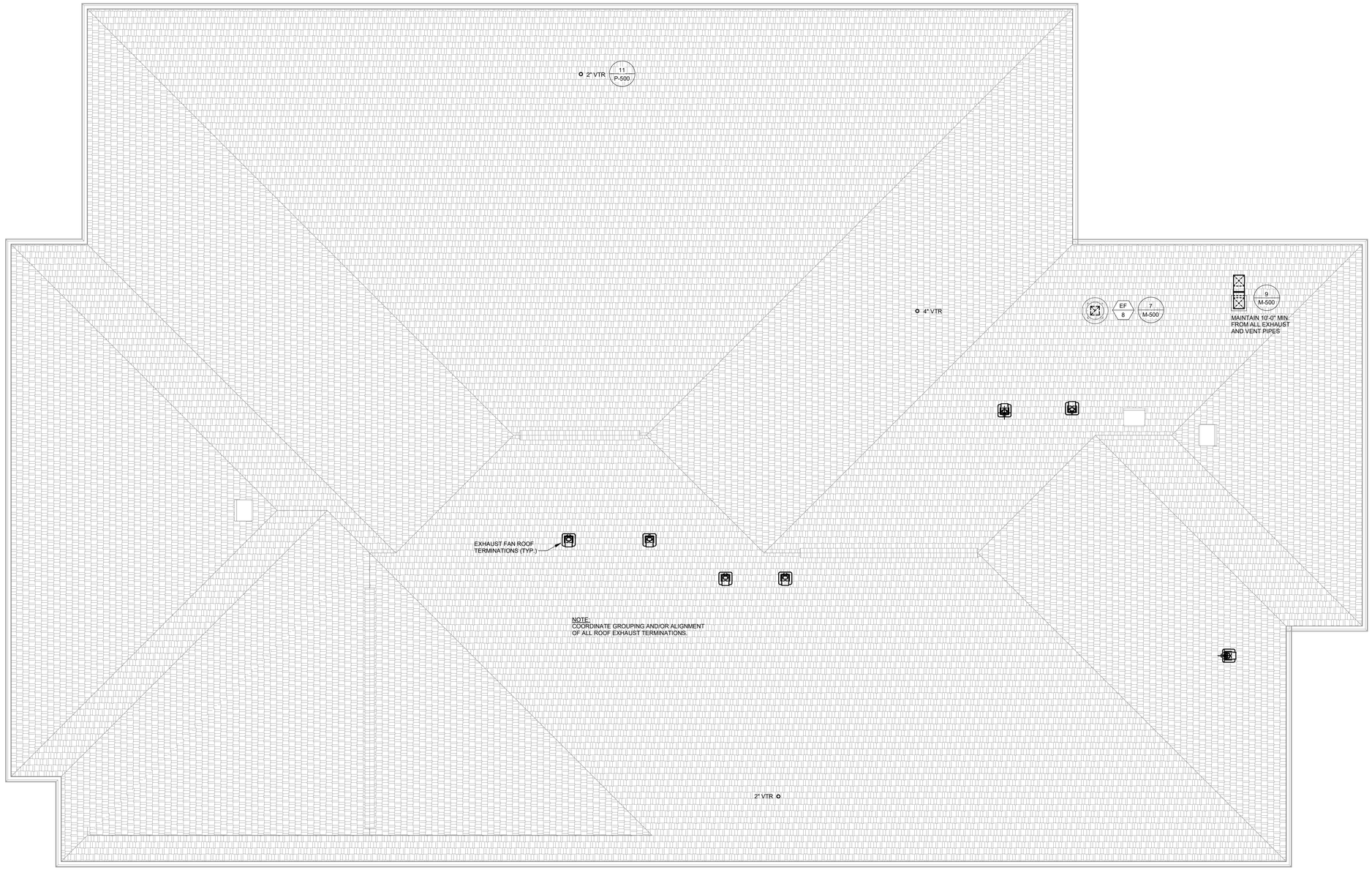

1 MECHANICAL ROOF PLAN

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

N

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DOWNING
JONES COUNTY FAMILY DENTAL

3201 SE 37th Street
Anamosa, Iowa 52205

Project No: 23092

Date: 05/24/23

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#	Revision	Date

Drawing Name:
MECHANICAL ROOF PLAN

Drawing #:
M-201

Plot Date & Time: 6/5/2023 6:17:22 AM

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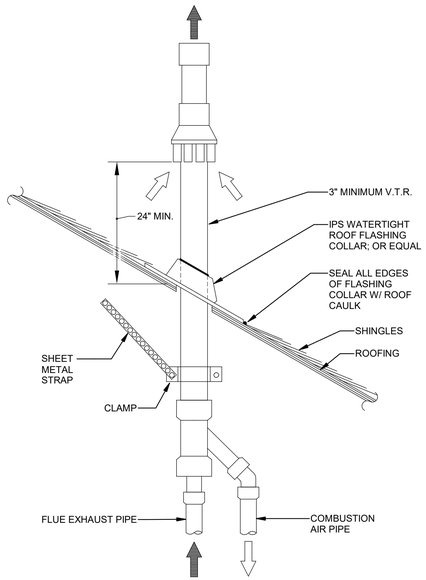
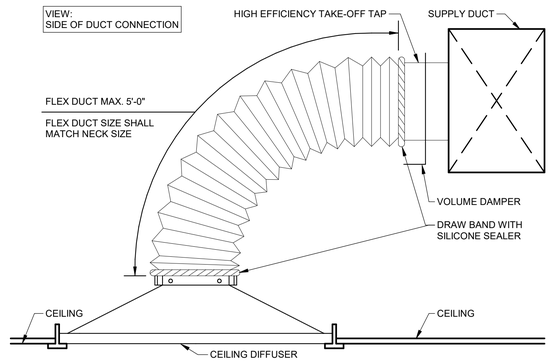


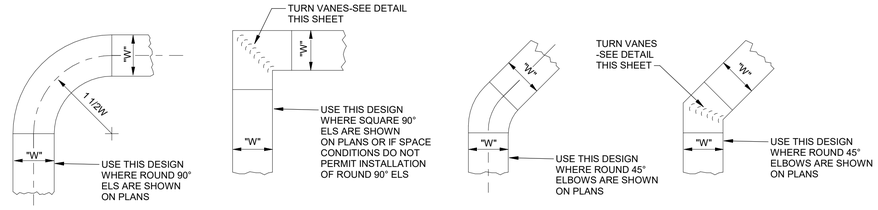
NOTES:

1. USE MATERIALS APPROVED BY MANUFACTURER AND 2015 INTERNATIONAL FUEL GAS CODE.
2. DETAIL APPLIES TO FURNACES.

8 CONCENTRIC ROOF TERMINATION - PITCHED ROOF
NOT TO SCALE



4 TYPICAL DIFFUSER CONNECTION DETAIL
NOT TO SCALE

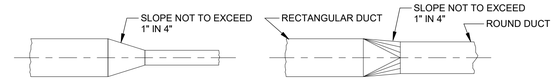


ROUND OF 90° ELBOW — SQUARE 90° ELBOW

CONSTRUCTION OF 90° ELBOW

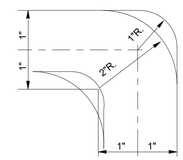
ROUND OF 45° ELBOW — SQUARE 45° ELBOW

CONSTRUCTION OF 45° ELBOW

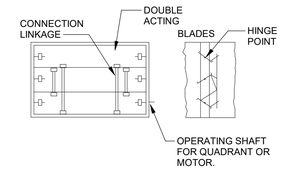


TYPICAL RECTANGULAR TRANSITION

TYPICAL RECTANGULAR TO ROUND TRANSITION



DETAIL OF TURN VANES

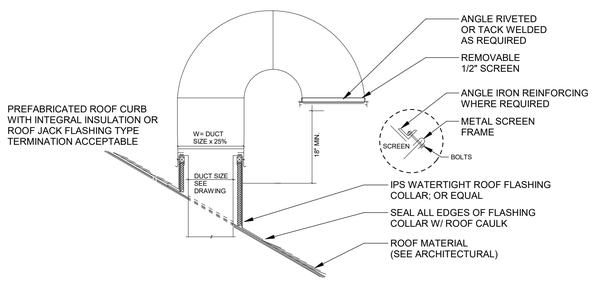


TYPICAL VOLUME DAMPER

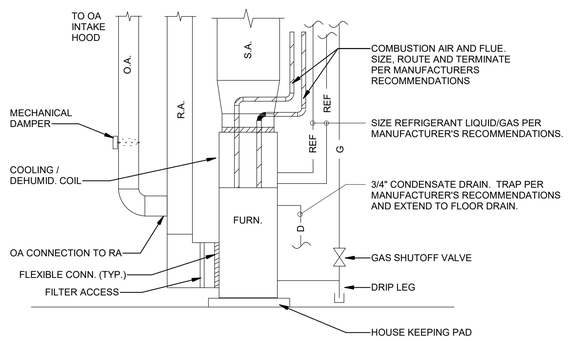
INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMAN LIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL AS SPECIFIED.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. TURNING VANES SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULANCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE TO ALL APPLICABLE REQUIREMENTS INCLUDING UL 555.
9. ACCESS PANELS SHALL BE PLACED BEFORE AND/OR AFTER EQUIMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHALL NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHALL BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHALL BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

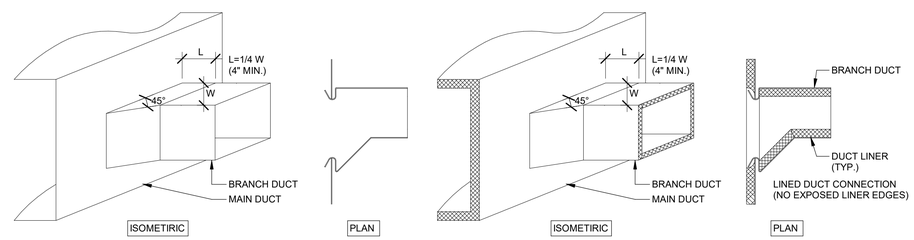
1 DETAILS OF THE LOW VELOCITY DUCT LAYOUT
NOT TO SCALE



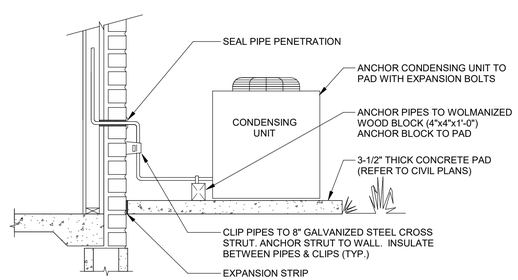
9 GOOSENECK ROOF TERMINATION DETAIL
NOT TO SCALE



5 FURNACE DETAIL
NOT TO SCALE

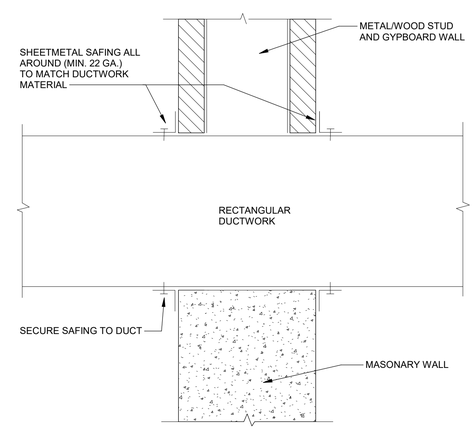


2 45° BRANCH DUCT TAKEOFF DETAIL
NOT TO SCALE

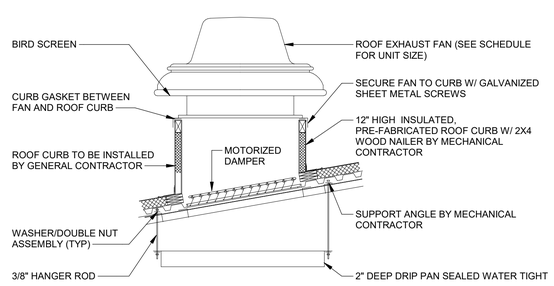


NOTE:
FOLLOW MANUFACTURERS MINIMUM CLEARANCE REQUIREMENTS.

6 CONDENSING UNIT ON GRADE DETAIL
NOT TO SCALE



3 DUCT PENETRATION THRU NON-RATED WALLS DETAIL
NOT TO SCALE



7 ROOF FAN DETAIL DETAIL
NOT TO SCALE

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Project No: 23092
Date: 09/02/21
PERMIT SET

#	Revision	Date

Drawing Name:
MECHANICAL DETAILS

Drawing #:
M-500

Plot Date & Time: 6/5/2023 6:17:23 AM

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FAN SCHEDULE

REFERENCE	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8
TYPE	IN-CEILING	IN-CEILING	IN-CEILING	IN-CEILING	IN-CEILING	IN-CEILING	IN-CEILING	CENTRIFUGAL
SERVES	PATIENT RR 106	STERILIZATION 125	LAB 123	IT 124	PAT/STAFF RR 120	STAFF RR 117	PRIVATE RR 115	MECHANICAL 118
WEIGHT (LBS)	10	10	10	10	10	10	10	38
DIMENSIONS - L x W x H (INCHES)	12"x14"x7"	12"x14"x7"	12"x14"x7"	12"x14"x7"	12"x14"x7"	12"x14"x7"	12"x14"x7"	24"x24"x36"
AIRFLOW (CFM)	50	70	70	70	50	50	50	200
ESP (IN. W.C.)	0.62	0.50	0.50	0.50	0.62	0.62	0.62	0.75
FAN SPEED (RPM)	650	650	650	650	650	650	650	1586
DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
SPEED CONTROL	NO	NO	NO	NO	NO	NO	NO	YES
SONES	3.5	2.5	2.5	2.5	3.5	3.5	3.5	8.3
DAMPER TYPE	GRAV. BACKDRAFT	GRAV. BACKDRAFT	GRAV. BACKDRAFT	GRAV. BACKDRAFT	GRAV. BACKDRAFT	GRAV. BACKDRAFT	GRAV. BACKDRAFT	MOTORIZED
MOTOR HP	FHP	FHP	FHP	FHP	FHP	FHP	FHP	1/4
WATTS	30.0	30.0	30.0	30.0	30.0	30.0	30.0	44.0
VOLTAGE - PHASE	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1
NOTES	1	1	1	8	1	1	1	2,3,4,5,6,7

NOTES:
1. FAN TO BE CONNECTED TO ROOM LIGHT SWITCH.
2. PROVIDE WITH DAMPER AND 115 VAC ACTUATOR WITH UNIT.
3. EC TO POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH FAN START OR STOP.
4. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND DISCONNECT. EC TO PROVIDE DISCONNECT.
5. PROVIDE MINIUM 14" ROOF CURB. DISTANCE MEASURED FROM BOTTOM OF FAN BASE TO TOP OF ROOF.
6. PROVIDE WITH STAINLESS STEEL FASTENERS.
7. INSTALL SPEED CONTROLLER UNDER FAN SHROUD FOR BALANCING.
8. PROVIDE WALL MOUNTED THERMOSTAT FOR FAN OPERATION.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTES
CD-1 (SUPPLY DIFFUSER)	ALUMINUM	NA	SEE DWG	24x24	YES	TITUS	OMNI-AA	1,2,3,4
SG-1 (SUPPLY GRILLE)	ALUMINUM	1 1/4"	SEE DWG	INLET +2"	YES	TITUS	300FL	1,2,3,4
RG-1 (RETURN GRILLE)	ALUMINUM	NA	SEE DWG	24x24	NO	TITUS	PAR-AA	1,2,3
EG-1 (EXHAUST GRILLE)	ALUMINUM	1 1/4"	SEE DWG	INLET +2"	YES	TITUS	300RL	1,2,3,4

NOTES:
1. REFER TO ARCH DRAWINGS FOR FINAL CEILING TYPE FOR DIFFUSER MOUNTING TYPE.
2. PROVIDE WITH WHITE FINISH.
3. VERIFY WITH ARCH ON FINAL COLOR.
4. PROVIDE OPPOSED BLADE BALANCING DAMPER OR ASD ACCESSIBLE THROUGH FACE OF GRILLE.

FURNACE & CONDENSING UNIT SCHEDULE

REFERENCE	F-1 / CU-1	F-2 / CU-2	F-3 / CU-3
SUPPLY FAN			
CFM	1,600	1,200	1,400
ESP (IN. W.C.)	0.5	0.5	0.5
MOTOR HP	0.75	0.75	0.75
HEATING			
TYPE	NATURAL GAS	NATURAL GAS	NATURAL GAS
AFUE	96	96	96
INPUT (MBH)	98	98	98
OUTPUT (MBH)	95	95	95
GAS OPERATING PRESSURE (IN. W.C.)	7 TO 14	7 TO 14	7 TO 14
COOLING			
REFRIGERANT	R-410A	R-410A	R-410A
EER/SEER (@ AHRI)	13/16	13/16	13/16
AMBIENT AIR TEMP (DB)	88.5	89.6	89.6
NET TOTAL CAPACITY (MBH)	45.7	36	43.3
NOMINAL TONNAGE	4	3	3.5
COMPRESSOR TYPE	SCROLL	SCROLL	SCROLL
FURNACE UNIT DATA			
VOLTAGE/PH	115/1	115/1	115/1
MOCP	20	20	20
CONDENSER UNIT DATA			
VOLTAGE/PH	230/1	230/1	230/1
MCA	28.3	24.1	23.5
MOCP	45	40	40

NOTES:
1. SIDE INLET FURNACE WITH FILTER. REFER TO MANUFACTURERS RECOMMENDATIONS FOR FILTER TYPE.
2. CONTRACTOR SHALL PROVIDE SPRING HINGED, GASKETED ENCLOSURE FOR FILTER ACCESS.
3. PROVIDE 24/7 PROGRAMMABLE TOUCH SCREEN WALL THERMOSTAT. REFER TO MANUFACTURERS RECOMMENDATIONS FOR REQUIREMENTS.
4. PROVIDE 2" CONCENTRIC VENT KIT. ROUTE AS SHOWN ON PLANS AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
5. ROUTE ASSOCIATED LINE SETS FROM F-# UNIT TO CU-# CONDENSING UNIT PER MANUFACTURERS RECOMMENDATIONS.
6. PROVIDE HOUSE KEEPING PADS FOR FURNACES AND ASSOCIATED CONDENSING UNITS.
7. DIFFUSER AIRFLOW SHALL BE ADJUSTED BASED ON SUBMITTED AIRFLOW CAPACITY. PROVIDE EQUIPMENT BASED ON NOMINAL COOLING AND HEATING CAPACITY.
8. PROVIDE TWO STAGE GAS VALVE. LISTED CAPACITY BASED ON HIGH FIRE / LOW FIRE.

CABINET UNIT HEATER SCHEDULE

REFERENCE	CUH-1
DIMENSIONS (H x W x D)	22-3/4 X 16-1/16 X 4-5/16
TYPE	SEMI RECESSED
HEATING	ELECTRIC
SERVES	VESTIBULE 100
AIRFLOW (CFM)	160
KW	1.5
AMPS	12.9
VOLTAGE - PH	120/1

NOTES:
1. PROVIDE UNIT WITH INTEGRAL THERMOSTAT AND DISCONNECT.
2. UNIT COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD AND CUSTOM COLOR CHART.
3. PROVIDE MANUACTURER'S INTEGRAL THERMOSTAT.

NOTE:
ALL SCHEDULED EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS ARE SHOWN AS BASIS OF DESIGN AND TO BE USED FOR REFERENCE. ALTERNATE MANUFACTURER'S AND/OR MODELS ARE ACCEPTABLE AS LONG AS THEY MATCH PERFORMANCE DATA INDICATED IN SCHEDULES.

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Project No: 23092
Date: 09/02/21
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#	Revision	Date

Drawing Name:
MECHANICAL SCHEDULES

Drawing #:
M-600

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GENERAL NOTES:

A. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO P-500 FOR PLUMBING DETAILS.

C. REFER TO P-600 FOR PLUMBING SCHEDULES.

D. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.

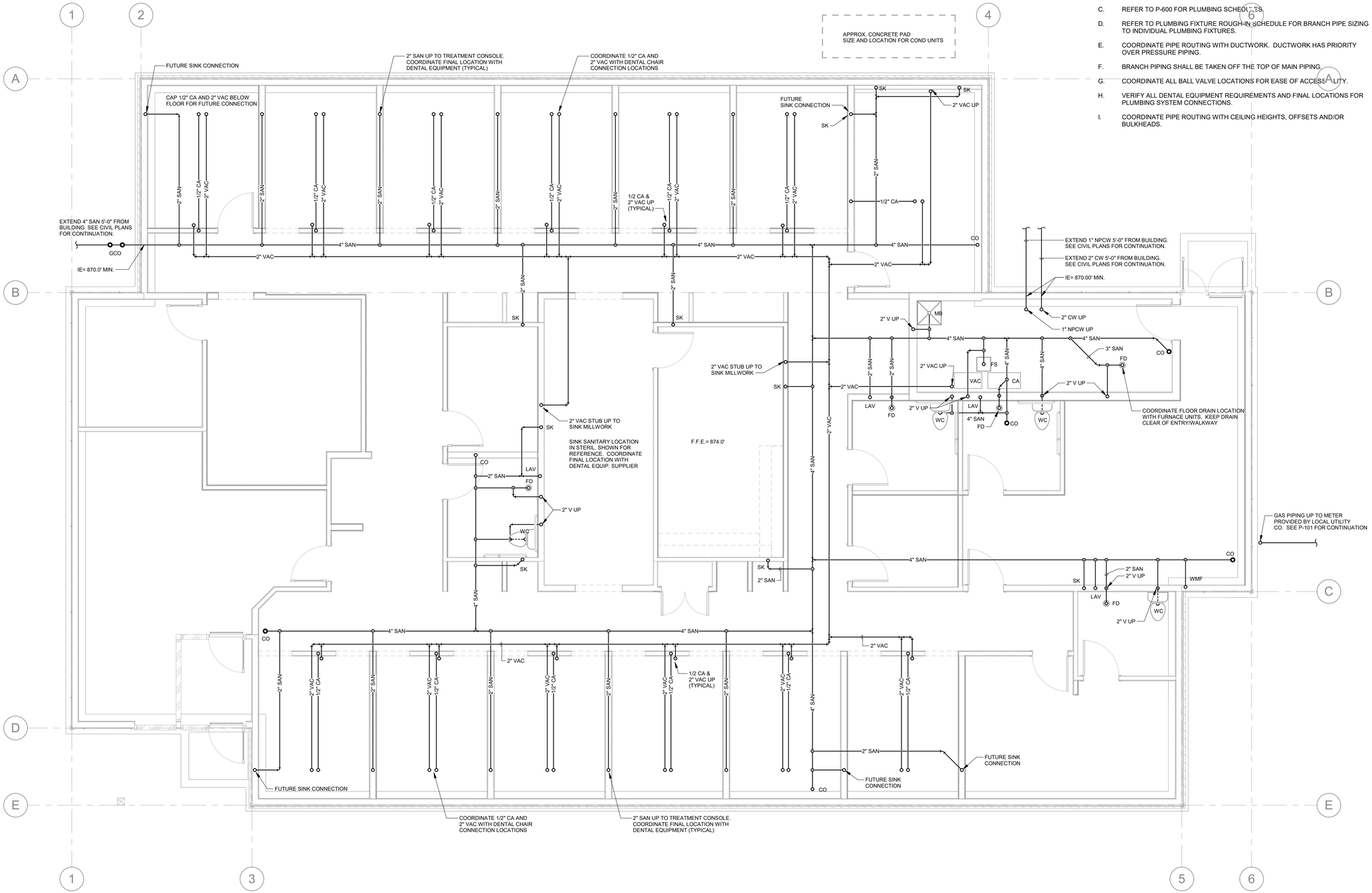
E. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING.

F. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

G. COORDINATE ALL BALL VALVE LOCATIONS FOR EASE OF ACCESSIBILITY.

H. VERIFY ALL DENTAL EQUIPMENT REQUIREMENTS AND FINAL LOCATIONS FOR PLUMBING SYSTEM CONNECTIONS.

I. COORDINATE PIPE ROUTING WITH CEILING HEIGHTS, OFFSETS AND/OR BULKHEADS.



1 PLUMBING FOUNDATION PLAN

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

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Drawing Name: PLUMBING FOUNDATION PLAN

Drawing #: P-100

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GENERAL NOTES:

A. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO P-500 FOR PLUMBING DETAILS.

C. REFER TO P-600 FOR PLUMBING SCHEDULES.

D. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.

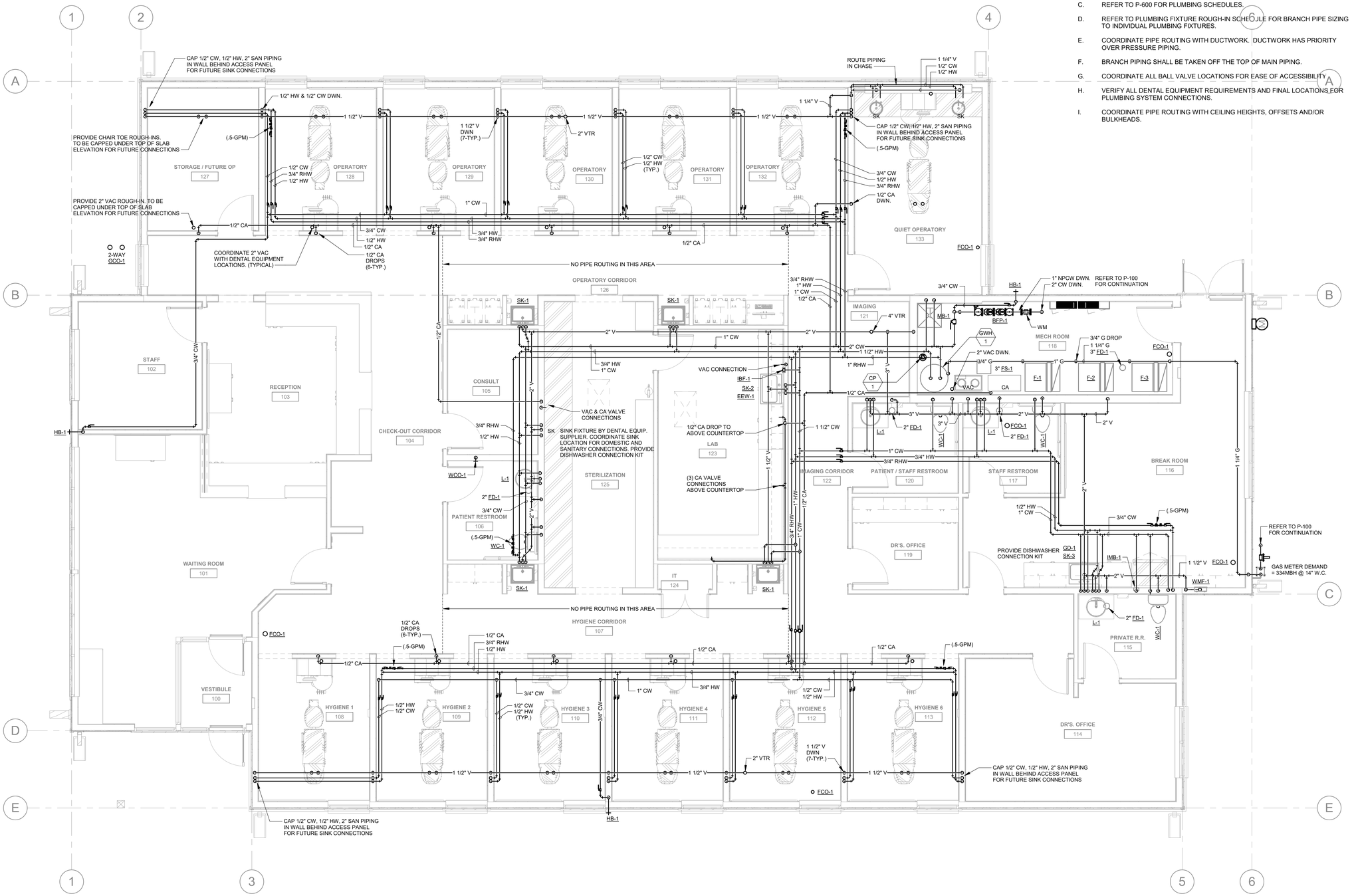
E. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING.

F. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

G. COORDINATE ALL BALL VALVE LOCATIONS FOR EASE OF ACCESSIBILITY.

H. VERIFY ALL DENTAL EQUIPMENT REQUIREMENTS AND FINAL LOCATIONS FOR PLUMBING SYSTEM CONNECTIONS.

I. COORDINATE PIPE ROUTING WITH CEILING HEIGHTS, OFFSETS AND/OR BULKHEADS.



1 MAIN LEVEL PLUMBING PLAN

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

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Project No:	23092
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Drawing Name:
PLUMBING PLAN

Drawing #:
P-101

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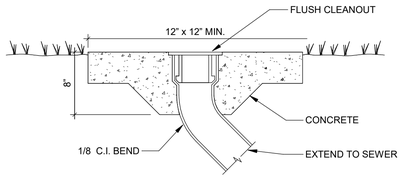
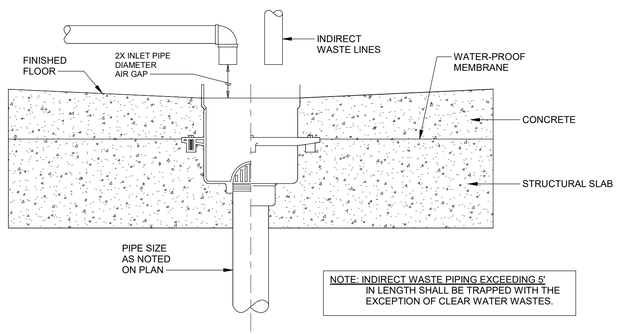
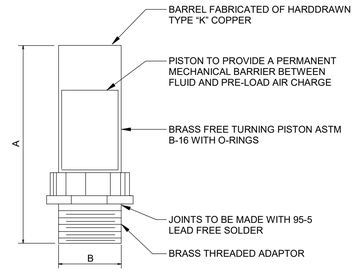


13 CLEANOUT AT GRADE DETAIL
NOT TO SCALE



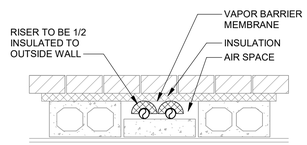
NOTE: INDIRECT WASTE PIPING EXCEEDING 5' IN LENGTH SHALL BE TRAPPED WITH THE EXCEPTION OF CLEAR WATER WASTES.

14 FLOOR SINK DETAIL
NOT TO SCALE

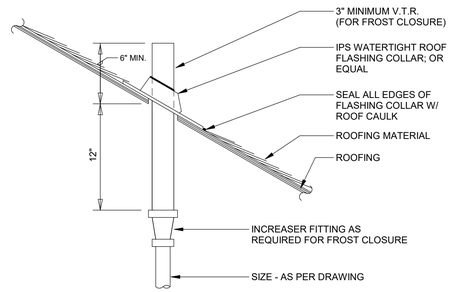


SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
A	1 - 11	5"	1/2"
B	12 - 32	5"	3/4"
C	33 - 60	7"	1"
D	61 - 113	7"	1-1/4"
E	114 - 154	9"	1-1/2"
F	155 - 330	9"	2"

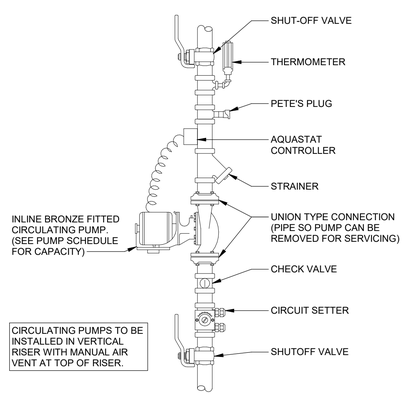
9 WATER SHOCK ARRESTOR DETAIL
NOT TO SCALE



10 PIPING IN OUTSIDE WALL DETAIL
NOT TO SCALE

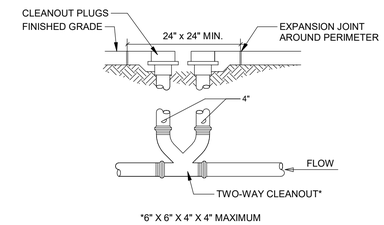


11 PLUMBING VENT THRU PITCHED ROOF DETAIL
NOT TO SCALE

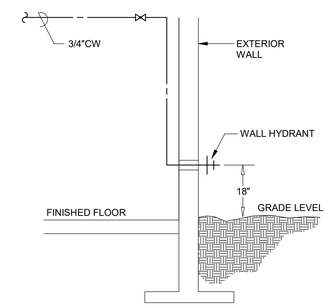


CIRCULATING PUMPS TO BE INSTALLED IN VERTICAL RISER WITH MANUAL AIR VENT AT TOP OF RISER.

12 HOT WATER CIRCULATING PUMP PIPING DETAIL
NOT TO SCALE

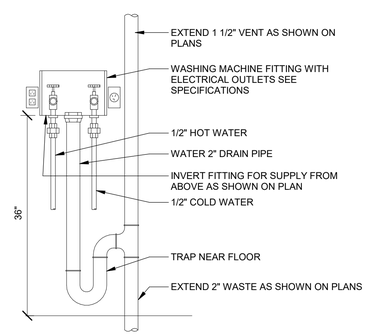


5 TWO-WAY CLEANOUT DETAIL
NOT TO SCALE

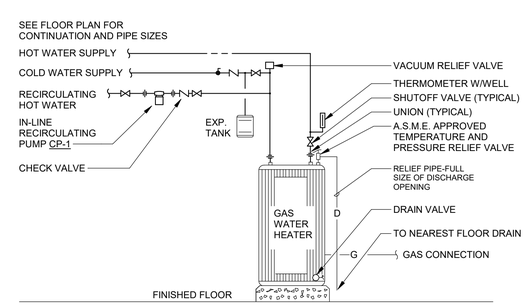


GENERAL NOTES:
1. CONTRACTOR SHALL COORDINATE LOCATION OF SHUT-OFF BALL VALVE TO ENSURE ACCESSIBILITY.

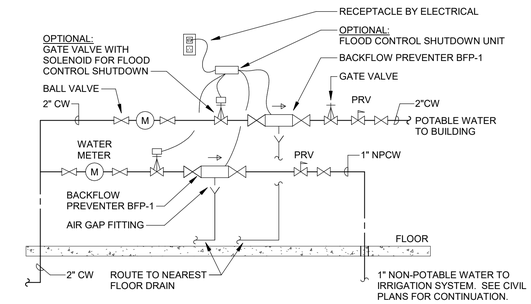
6 WALL HYDRANT DETAIL
NOT TO SCALE



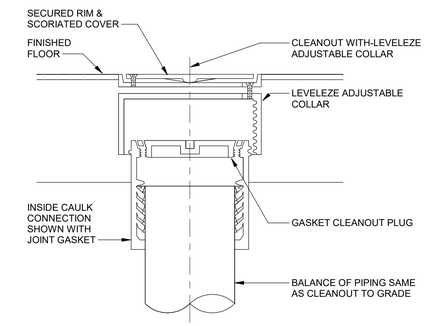
7 WASHING MACHINE DRAIN VALVE BOX DETAIL
NOT TO SCALE



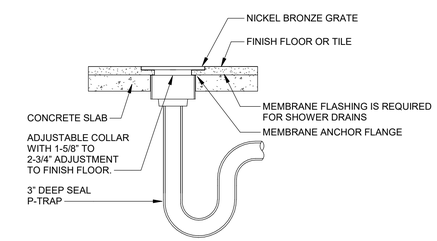
8 WATER HEATER W/EXPANSION TANK DETAIL
NOT TO SCALE



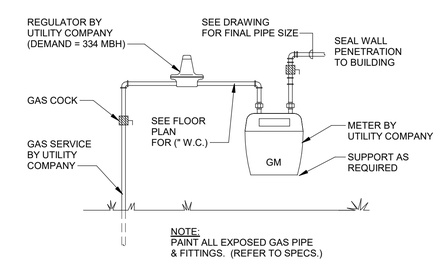
1 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE



2 FLOOR CLEANOUT DETAIL
NOT TO SCALE



3 FLOOR DRAIN DETAIL
NOT TO SCALE



NOTE:
PAINT ALL EXPOSED GAS PIPE & FITTINGS. (REFER TO SPECS.)

4 GAS METER & REGULATOR DETAIL
NOT TO SCALE

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Project No: 23092
Date: 09/02/21
PERMIT SET

#	Revision	Date

Drawing Name:
PLUMBING DETAILS

Drawing #:
P-500

Plot Date & Time: 6/5/2023 6:17:32 AM

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DOMESTIC CIRC. PUMP SCHEDULE

REFERENCE	CP-1
TYPE	INLINE - 3 SPEED
SERVES	GWH-1
GPM	3
FT HEAD	12
VOLTAGE/PH	120/1
NOTES	1, 2, 3, 4

NOTES:

1. EC TO PROVIDE DISCONNECT.
2. PROVIDE WITH LINE-VOLTAGE, UL LISTED, STRAP-ON AQUASTAT WITH REMOTE SENSOR. INSTALL PER MFR RECOMMENDATIONS.
3. PUMP TO CYCLE ON/OFF WITH AUQUASTAT.
4. PUMP RATED FOR 125 PSIG AT 225F

WATER HEATER SCHEDULE

REFERENCE	GWH-1
SERVES	BUILDING
DIMENSIONS (DIAM, HEIGHT)	22", 58.75"
STORAGE GALLONS	48
RECOVERY GPH 90F RISE (PER HOUR)	43
NAT. GAS BTUH INPUT	40,000
UNIFORM ENERGY FACTOR	0.70
MAXIMUM GAS SUPPLY PRESSURE	14 IN W.C.
COMBUSTION AIR INTAKE	2" SCH. 80 CPVC
FLUE	2" SCH. 80 CPVC
VOLTAGE/PH	120/1

NOTES:

1. GWH-1 SHALL BE PROVIDED WITH ASME RATED T&P RELIEF VALVE.
2. WATER HEATER TO BE ASME RATED
3. PROVIDE WITH CONCENTRIC VENTING KIT.
4. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.

PLUMBING FIXTURE SCHEDULE

REFERENCE	MFR	MODEL	DESCRIPTION	TRIM
BFP-1	WATTS	LF009/LF909	BACKFLOW PREVENTER - REDUCED PRESSURE ZONE TYPE, BRONZE OR FDA APROVED EPOXY COATED CAST IRON CONSTRUCTION, SIZE SAME AS CONNECTED PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED SERVICEABLE WITHOUT REMOVING UNIT FROM LINE. APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013. IAPMO AND SBCCI LISTED.	BRONZE OR FDA APPROVED EPOXY COATED CAST IRON STRAINER UPSTREAM OF BACKFLOW PREVENTER, TO BE FURNISHED WITH BACKFLOW PREVENTER.
EEW-1	BRADLEY	S19-200B	FAUCET MOUNT EYEWASH UNIT. UNIVERAL MOUNT FOR GOOSENECK FAUCETS. CHROME-PLATED BRASS SPRAYHEAD, TWIN SOFT-FLOW EYEWASH HEADS. INTEGRAL STRAINER, STEADY WATER FLOW BY INTEGRAL FLOW CONTROL. PROVIDED WITH ADAPTERS TO CONVERT STANDARD THREAD. UNIVERSAL IDENTIFICATION TAG INCLUDED.	MIXING VALVE - NAVIGATOR S19-2000 EFX8 EMERGENCY THERMOSTATIC MIXING VALVE TO PROVIDE TEPID WATER BY MIXING HOT AND COLD WATER, ANSI Z358.1-2014.
FCO-1 (PVC)	ZURN	CO	ADJUSTABLE FLOOR CLEANOUT, ABS TAPERED THREAD PLUG AND ROUND NICKEL BRONZE FRAME AND COVER, SCORIATED CAST IRON HEAVY-DUTY SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. OUTLET SIZE AS NOTED ON DRAWINGS.	NA
FS-1 [12" SQUARE GRATE]	ZURN	Z1910	CAST IRON BODY, NICKEL BRONZE RIM AND HALF GRATE, 12" SQUARE, 3" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH ALUMINUM SEDIMENT BUCKET, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP, DEEP SEAL TRAP.	NA
GCO-1	ZURN	Z1474	GRADE CLEANOUT, ROUND, DURA-COATED CAST IRON, SIZE AS INDICATED, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	NA
GD-1	IN-SINK-ERATOR	BADGER 5	GARBAGE DISPOSAL, CONTINUOUS FEED, GALVANIZED STEEL GRINDING ELEMENTS WITH STAINLESS STEEL 360° SWIVEL LUGS, PERMANENTLY LUBRICATED, 1/2 HP, 120V, MANUAL RESET OVERLOAD, WITH CORD AND PLUG. CONTROLLED BY WALL SWITCH. WIRING BY E.C.	NA
HB-1	WOODFORD	65	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 APPROVED AND LISTED. INSTALL AT 18" ABOVE FINISH GRADE.	NA
IMB-1	GUY GRAY	BIM875QTSAB	ICE MAKER OUTLET BOX - 20-GAUGE G90 GALVANIZED ENCLOSURE, 1/2" FIP INLET, 1/4" OD OUTLET QUARTER TURN BRASS BALL VALVE WITH FACEPLATE.	INSTALL BFP-2 DOWNSTREAM OF ICE MAKER OUTLET BOX.
L-1	KOHLER	PENNINGTON K-2196-1-0	OVAL, COUNTERTOP MOUNT, VITREOUS CHINA LAVATORY, OVERALL DIMENSIONS 20 1/4" x 17 1/2", 4" CENTER HOLES, OVERFLOW.	DELTA "559HAR-SS-DST", ADA COMPLIANT, SINGLE HANDLE DECK MOUNT FAUCET, WITH OFFSET GRID STRAINER AND TRAP, TRUEBRO "102W, 105" CW, HW, AND WASTE PIPE GUARDS AND ESCUTCHEONS. MAXIMUM FIXTURE FLOW TO BE 0.5 GPM. PROVIDE POWERS "LFE480" POINT OF USE MIXING VALVE UNDER FIXTURE. MIXING VALVE MUST MEET ASSE 1070 AND UPC 2009 REQUIREMENTS. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
MB-1	FIAT	TSB3000	SQUARE MOP BASIN - PRECAST TERRAZZO, 24"x24"x12", 6" DROP FRONT, CONTINUOUS STAINLESS STEEL CAPS ON ALL CURBS, STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET. CAULK BETWEEN MOP BASIN AND WALL WITH SILICONE BASED CAULK. PROVIDE WITH STAINLESS STEEL SPLASH PLATE WHICH EXTENDS 8" ON EACH SIDE, MOP HANGER, HOSE AND HOSE BRACKET, AND DEEP SEAL TRAP.	ZURN "Z-841M1" , EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, INTEGRAL STOPS.
SK-1	NAMEEKS	CERASTYLE 037100-U	WALL MOUNT, RECTANGULAR WHITE CERAMIC, OVERALL DIMENSIONS 23.6" x 18.9", TRIM HOLE(S), OVERFLOW, NO BACKSPLASH. COORDINATE ALL REQUIRED HOLES FOR TRIM AND INDICATE IN SUBMITTAL. PROVIDE SUFFICIENT WALL SUPPORT BEHIND FINISHED WALL. ADA COMPLIANT.	DELTA "559LF-GPM-PP", BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE CONTROL HANDLE, 3.5" REACH, 1.0 GPM AERATOR, CER-TECK CARTRIDGES, 50/50 POP-UP PLATED FLANGE AND STOPPER. PROVIDE POWERS "LFE480" POINT OF USE MIXING VALVE UNDER FIXTURE. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS. ADA COMPLIANT.
SK-2 (LAB)	ELKAY	DAYTON DXR2522	SINGLE BOWL, COUNTER TOP MOUNT, 18-GAUGE STAINLESS STEEL, COMPLETELY UNDERCOATED, 25" SIDE TO SIDE x 22" FRONT TO BACK, BOWL 21" x 15 3/4" x 8 3/16" DEEP. VERIFY FINAL DIMENSIONS FROM ARCH ELEVATION AND MILWORK DRAWINGS. COORDINATE ALL REQUIRED HOLES FOR TRIM AND INDICATE IN SUBMITTAL. REMOVABLE STAINLESS STEEL BASKET STRAINERS AND TAILPIECE.	DELTA "26C3922-TI", BRASS CONSTRUCTION, CHROME-PLATED FINISH, DOUBLE BLADE HANDLE, BRASS SWING GOOSENECK SPOUT, 11.6" HIGH SPOUT, 6" REACH, 1.5 GPM AERATOR, CER-TECK CARTRIDGES, TWO HOLE 8" CENTER FAUCET. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS. SEE EEW-1 FOR EYE WASH ASSEMBLY/ATTACHMENT TO FAUCET.
SK-3 (BREAKROOM)	ELKAY	LRS3322	SINGLE BOWL, COUNTER TOP MOUNT, 18-GAUGE STAINLESS STEEL, COMPLETELY UNDERCOATED, 33" SIDE TO SIDE x 22" FRONT TO BACK, BOWL 28" x 16" x 7 5/8" DEEP. VERIFY FINAL DIMENSIONS FROM ARCH ELEVATION AND MILWORK DRAWINGS. COORDINATE ALL REQUIRED HOLES FOR TRIM AND INDICATE IN SUBMITTAL. REMOVABLE STAINLESS STEEL BASKET STRAINERS AND TAILPIECE.	DELTA TRINSIC "9159-AR-DST", BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE HANDLE, PULL-DOWN GOOSENECK FAUCET, SWIVEL SPOUT, 9 1/2" REACH, 1.8 GPM AERATOR, TWO FUNCTION WAND OPERATION, 20" BRAIDED HOSE, ONE HOLE FAUCET. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
WC-1 (FLOOR)	AMERICAN STANDARD	CHAMPION 211AA105.020	ADA, FLOOR MOUNTED 1.28 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET TOILET, BOLT CAPS, FLOAT VALVE WITH VACUUM BREAKER, CHROME-PLATED TRIP LEVER. TRIP LEVER SHALL BE ON WIDE SIDE OF TOILET. REFER TO PLANS FOR RIGHT HAND / LEFT HAND. INDICATE QUANTITIES OF RIGHT HAND / LEFT HAND TRIP LEVERS ON SUBMITTAL. ADA COMPLIANT BOWL HEIGHT.	AMERICAN STANDARD 5901100SS.020 WHITE OPEN FRONT SELF-SUSTAINING EVERCLEAN SEAT, SOLID POLYPROPYLENE, STAINLESS STEEL POSTS, ESCUTCHEON & WAX RING. PROVIDE WITH 1/4 TURN, 3/8" BRASS LOOSE-KEY STOP.

NOTES:

1. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR MINIMUM CONNECTION SIZES.

PLUMBING FIXTURE ROUGH-IN SCHEDULE

FIXTURE	CW	HW	VENT	WASTE	NOTES
FLOOR DRAIN	-	-	1 1/2"	2"	1
FLOOR DRAIN / FLOOR SINK	-	-	1 1/2"	3"	1
HOSE BIB (EXTERIOR)	3/4"	-	-	-	1
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	1,2
MOP BASIN - UTILITY SINK	3/4"	3/4"	1 1/2"	3"	1
SINK	1/2"	1/2"	1 1/2"	1 1/2"	1,2
WALL BOX (ICEMAKER)	1/2"	-	-	-	1
WATER CLOSET (FLUSH TANK)	3/4"	-	2"	3"	1

NOTES:

1. ALL SIZES SHOWN ARE MINIMUM CONNECTION SIZES, REFER TO DRAWINGS FOR FINAL SIZES.
2. ALL VERTICAL WASTE RISERS TO FIXTURES AND ALL BELOW FLOOR WASTE SIZES SHALL BE A MINIMUM OF 2".
3. CW/HW TO MIXING VALVE. TEPID WATER FROM MIXING VALVE.
4. MINIMUM 3/4" CW AND HW TO FIXTURE. REDUCE PIPE SIZE AT FIXTURE CONNECTIONS ONLY.
5. FOR TEMPERED WATER SHOWER, EXTEND 3/4" TW TO ASSEMBLY.

NOTE:
ALL SCHEDULED EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS ARE SHOWN AS BASIS OF DESIGN AND TO BE USED FOR REFERENCE. ALTERNATE MANUFACTURER'S AND/OR MODELS ARE ACCEPTABLE AS LONG AS THEY MATCH PERFORMANCE DATA INDICATED IN SCHEDULES.

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Project No: 23092
Date: 09/02/21
PERMIT SET

#	Revision	Date

Drawing Name:
PLUMBING SCHEDULES

Drawing #:
P-600

Plot Date & Time: 6/5/2023 6:17:38 AM

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INSTALLATION NOTES - ELECTRICAL

1. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
2. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
3. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
5. DO NOT INSTALL BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE SAME WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN BOXES WHEREVER APPLICABLE.
6. BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED TO ACCOMMODATE.
7. PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED AS A RESULT OF THIS PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES.
8. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

DEVICE INSTALLATION AND MATERIALS - ELECTRICAL

1. PROVIDE NORMAL WIRING DEVICES AS WHITE UNLESS OTHERWISE NOTED.
2. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL. MATCH WIRING DEVICES COLOR.
3. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
4. INSTALL WALL MOUNTED RECEPTACLES AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
5. INSTALL WALL MOUNTED LIGHT SWITCHES AT +46" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. EXCEPTION: INSTALL DEVICES ABOVE AN OBSTRUCTED HIGH FORWARD REACH OBSTACLE GREATER THEN 20 INCHES IN DEPTH AT +42".
6. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
7. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

INSTALLATION NOTES - LIGHTING

1. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION. INSTALL PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS.
2. VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING TYPE.
3. LIGHTING CONTROLS SENSORS ARE SHOWN ON PLANS AT SUGGESTED LOCATIONS ONLY. VERIFY LOCATIONS WITH MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS. ADJUST LOCATIONS AS REQUIRED TO MEET MANUFACTURER GUIDELINES.
4. PROVIDE LIGHTING CONTROLS AS A COMPLETE SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR OPERATION.

BUILDING EQUIPMENT COORDINATION NOTES - ELECTRICAL

1. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR COORDINATION DETAILS BETWEEN MECHANICAL AND ELECTRICAL SYSTEMS.
2. PROVIDE AND INSTALL ELECTRICAL SYSTEMS UNDER THIS CONTRACT MEETING THE REQUIREMENTS OF THE SPECIFIED MECHANICAL, FIRE PROTECTION, AND PLUMBING SYSTEMS. REFERENCE THE ENTIRE PROJECT DOCUMENTS, MANUALS, SCHEDULES, DETAILS, AND NOTES.
3. PROVIDE ELECTRICAL CONNECTIONS AND ACCESSORIES INCLUDING STARTERS, DISCONNECTS, CONTROL WIRING, ETC. AS REQUIRED FOR THE BUILDING MECHANICAL EQUIPMENT. INFORMATION HEREIN AND ON THE DRAWINGS IS FOR GENERAL DESCRIPTION AND ESTIMATING PURPOSES ONLY. VERIFY VOLTAGE, AMPERAGE, PHASE, INRUSH, ETC. FOR EACH ITEM OF EQUIPMENT BEFORE PROCEEDING WITH INSTALLATION. INSTALL EQUIPMENT PER WIRING DETAILS AND INSTRUCTIONS FURNISHED BY THE SUPPLIERS OF THE EQUIPMENT TO PROVIDE PROPER OPERATION.
4. REVIEW MECHANICAL EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY TO ACCOMMODATE EQUIPMENT BEING SUPPLIED.
   a. DO NOT RELEASE ELECTRICAL DISTRIBUTION EQUIPMENT UNTIL ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL INFRASTRUCTURE HAS BEEN SUBMITTED AND APPROVED. MAKE COORDINATION ADJUSTMENTS TO BREAKER SIZES AND SIMILAR CHANGES TO ELECTRICAL EQUIPMENT PRIOR TO SUBMITTAL RELEASE. COORDINATE SCHEDULING OF SHOP DRAWINGS WITH ALL TRADES.
5. PROVIDE DISCONNECTS RATED FOR EQUIPMENT AS REQUIRED AND AS INDICATED WITHIN EQUIPMENT CONNECTION SCHEDULE. COORDINATE DISCONNECT MOUNTING TO ALLOW EQUIPMENT REMOVAL WITHOUT DISCONNECT REMOVAL AND TO MINIMIZE WIRING WORK REQUIRED.
6. VERIFY LOCATIONS OF ALL EQUIPMENT. REFER TO MECHANICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND COORDINATE WITH THE ASSOCIATED SUB-CONTRACTOR. ADJUST ELECTRICAL INSTALLATION AS REQUIRED.

ELECTRICAL ABBREVIATIONS

A	DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION)	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NM	NONMETALLIC
ATS	AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
C	CEILING	OC	ON CENTER
CB	CIRCUIT BREAKER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED, OWNER INSTALLED
E	EXISTING ITEM TO REMAIN	R	EXISTING ITEM TO BE REMOVED
EC	ELECTRICAL CONTRACTOR	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
EM	EMERGENCY LIGHT FIXTURE	RN	EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW
ER	NEW LOCATION OF EXISTING ITEM	SCCR	SHORT CIRCUIT CURRENT RATING
F	ROUGH IN FOR FUTURE DEVICE	T	TAMPER PROOF DEVICE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TCC	TEMPERATURE CONTROL CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
FSD	FIRE SMOKE DAMPER	TYP	TYPICAL
G	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
GND	GROUND	V	VOLTS
KVA	KILO-VOLT-AMPERES	VA	VOLT-AMPERES
KW	KILOWATTS	WG	WIREGUARD COVER
MC	MECHANICAL CONTRACTOR	WP	WEATHERPROOF DEVICE
MCB	MAIN CIRCUIT BREAKER	WR	WEATHER RESISTANT DEVICE
MDP	MAIN DISTRIBUTION PANEL	+24"	INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR
MLO	MAIN LUGS ONLY		
N	NEW DEVICE IN EXISTING LOCATION		

GENERAL NOTES - ELECTRICAL

1. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
2. ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

CODE NOTES - ELECTRICAL

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.

SITE NOTES - ELECTRICAL

1. UTILITIES SHOWN ON ELECTRICAL SITE PLAN ARE SCHEMATIC ONLY. VERIFY ALL SITE CONDITIONS AND DIMENSIONS ON SITE PRIOR TO SUBMITTING BID AND ORDERING EQUIPMENT.
2. REPAIR ALL AFFECTED SURFACES AND RESTORE TO EXISTING CONDITIONS AT COMPLETION OF PROJECT.
3. WARNING - CALL BEFORE YOU DIG: LAW REQUIRES ANYONE DOING EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE-CALL 811.

DESIGN/BUILD NOTE

1. THESE MECHANICAL AND/OR ELECTRICAL DOCUMENTS ARE CONCEPTUAL AND ARE NOT FOR CONSTRUCTION. THE DESIGN-BUILD CONTRACTOR IS RESPONSIBLE FOR PREPARING ALL CONSTRUCTION DOCUMENTS REQUIRED TO MEET THE INTENT OF THESE DOCUMENTS, OWNER'S DESIGN GUIDELINES AND STANDARDS, AND LOCAL, STATE, AND FEDERAL CODES. THE PROFESSIONAL MEMBERS OF THE DESIGN-BUILD TEAM SHALL BE THE ENGINEER OF RECORD FOR THE PROJECT.

IOWA ONE CALL
1-800-292-8989
CALL - BEFORE - YOU - DIG

CALL811 BEFORE YOU DIG 811 SAFE DIGGING PLEASE

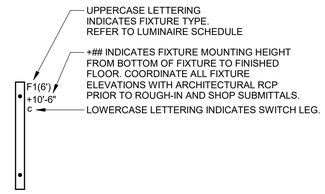
GENERAL NOTE:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

LIGHTING SYMBOLS

- a — RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- PENDANT MOUNTED LIGHT FIXTURE
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
- SURFACE MOUNTED STRIP FIXTURE
- INDUSTRIAL STRIP LIGHT FIXTURE
- WALL MOUNTED STRIP LIGHT FIXTURE.
- EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
- EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- EXTERIOR LIGHT FIXTURE, WALL MOUNT +10', OR AS NOTED
- $ a — SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- 3 $ b — THREE WAY SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- S1 d — LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- 1 c — OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- 2 a — OCCUPANCY SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE

LIGHTING PLANS NOTATION KEY



GENERAL SYMBOLS

- CONDUIT SLEEVE
- J — JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- J — JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- # — KEYNOTE
- XXX / X — EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
- 1 / A101 SIM — DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- 1 / A101 SIM — SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE; SHEET REFERENCE
- A101 / 1 Ref — INTERIOR ELEVATION DRAWING REFERENCE TAG

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNT +18", OR AS NOTED
- DUPLEX RECEPTACLE, CEILING MOUNT
- DUPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- G — DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- EWC — DUPLEX RECEPTACLE, MOUNTED WITHIN WATER COOLER HOUSING, VERIFY HEIGHT. CONNECT TO GFCI, CIRCUIT BREAKER OR REMOTE WALL DEVICE.
- W — DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT +24", OR AS NOTED
- QUADRAPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- SURFACE MOUNTED JUNCTION BOX AT FLOOR ELEVATION WITH QUADRAPLEX MOUNTED TO TOP.
- SPECIAL RECEPTACLE, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR RECEPTACLE TYPE
- SPECIAL RECEPTACLE, CEILING MOUNT, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR RECEPTACLE TYPE
- EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
- EQUIPMENT CONNECTION, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
- G — BLANK FACE GFCI DEVICE, WALL MOUNT +48", OR AS NOTED
- J — JUNCTION BOX, WITH PULL STRING, WALL MOUNT, REFER TO PLAN OR DETAIL FOR MOUNTING HEIGHT
- T — UTILITY TRANSFORMER
- M — UTILITY METER
- SAFETY DISCONNECT SWITCH
- EMERGENCY PUSH BUTTON
- PANELBOARD - SURFACE MOUNTED

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Project No: 23092
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#	Revision	Date

Drawing Name:
ELECTRICAL GENERAL NOTES & SYMBOLS

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E-000

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KEYNOTES (#)

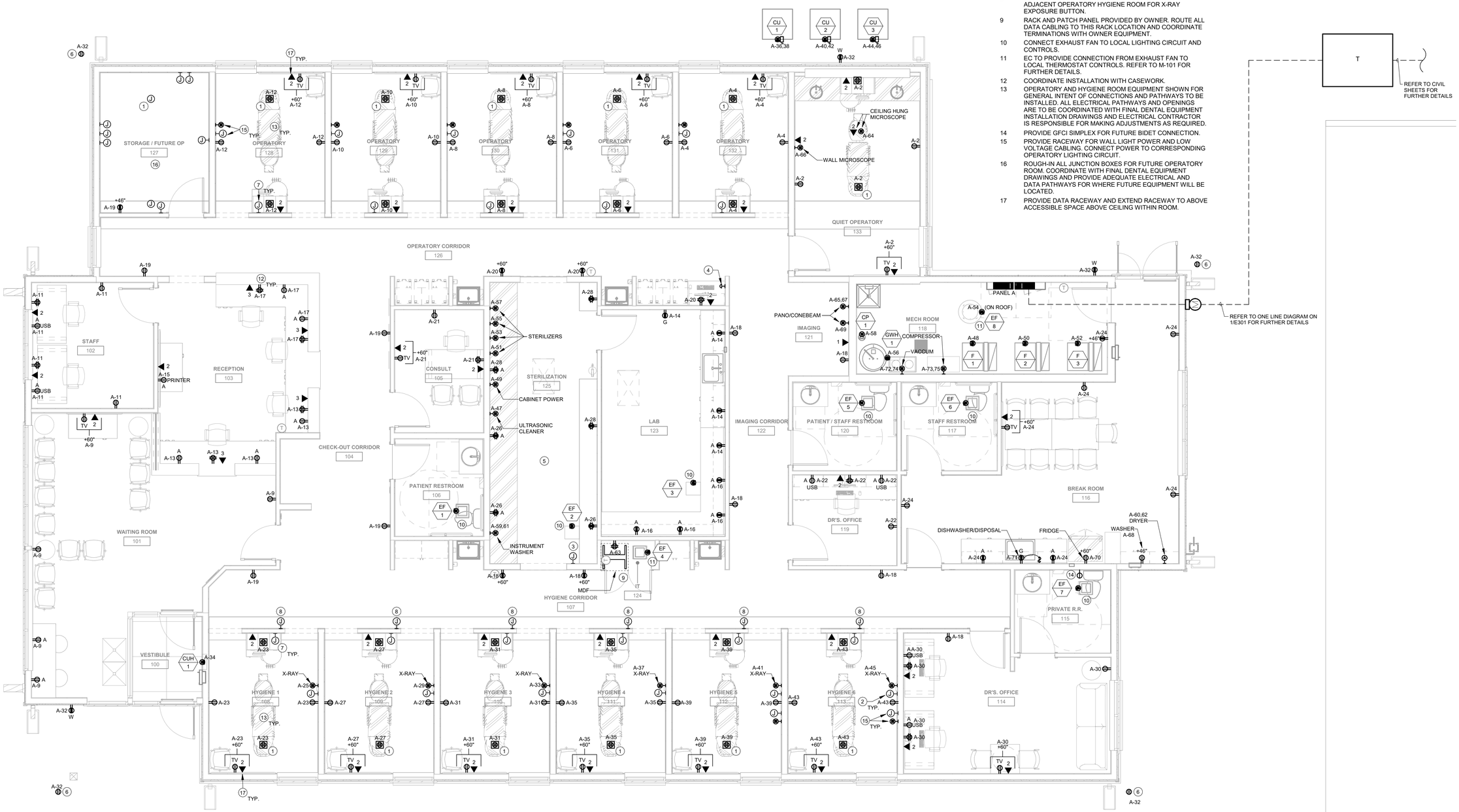
1. PROVIDE 2" CONDUIT WITH PULL STRING FROM THE HEAD CABINET TO FLOOR MOUNTED JUNCTION BOX AT BASE OF CHAIR.
2. PROVIDE LOW VOLTAGE RACEWAY FOR X-RAY EQUIPMENT. TERMINATE AT TOEKICK AND EXTEND TO ACCESSIBLE SPACE ABOVE CEILING.
3. SHUTOFF SWITCH FOR AIR, VAC, AND WATER. PROVIDE PATHWAY BACK TO ROOM MECHANICAL 118 FOR SHUTOFF.
4. PROVIDE LOW VOLTAGE RACEWAY FOR IMAGING EXPOSURE BUTTON. EXTEND RACEWAY TO ACCESSIBLE SPACE ABOVE CEILING.
5. COORDINATE ALL STERILIZATION EQUIPMENT AND CONNECTION MOUNTING HEIGHTS WITH FINAL DENTAL EQUIPMENT DRAWINGS.
6. INSTALL CEILING MOUNTED RECEPTACLE IN EXTERIOR SOFFIT. INTERCONNECT WITH TIMER SWITCH LOCATED IN MECH ROOM 118.
7. PROVIDE EMPTY 2" CONDUIT FROM TOEKICK TO ACCESSIBLE SPACE ABOVE CEILING.
8. PROVIDE 3/4" CONDUIT ROUTED ABOVE CEILING IN ADJACENT OPERATORY HYGIENE ROOM FOR X-RAY EXPOSURE BUTTON.
9. RACK AND PATCH PANEL PROVIDED BY OWNER. ROUTE ALL DATA CABLING TO THIS RACK LOCATION AND COORDINATE TERMINATIONS WITH OWNER EQUIPMENT.
10. CONNECT EXHAUST FAN TO LOCAL LIGHTING CIRCUIT AND CONTROLS.
11. EC TO PROVIDE CONNECTION FROM EXHAUST FAN TO LOCAL THERMOSTAT CONTROLS. REFER TO M-101 FOR FURTHER DETAILS.
12. COORDINATE INSTALLATION WITH CASEWORK.
13. OPERATORY AND HYGIENE ROOM EQUIPMENT SHOWN FOR GENERAL INTENT OF CONNECTIONS AND PATHWAYS TO BE INSTALLED. ALL ELECTRICAL PATHWAYS AND OPENINGS ARE TO BE COORDINATED WITH FINAL DENTAL EQUIPMENT INSTALLATION DRAWINGS AND ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ADJUSTMENTS AS REQUIRED.
14. PROVIDE GFCI SIMPLEX FOR FUTURE BIDET CONNECTION.
15. PROVIDE RACEWAY FOR WALL LIGHT POWER AND LOW VOLTAGE CABLING. CONNECT POWER TO CORRESPONDING OPERATORY LIGHTING CIRCUIT.
16. ROUGH-IN ALL JUNCTION BOXES FOR FUTURE OPERATORY ROOM. COORDINATE WITH FINAL DENTAL EQUIPMENT DRAWINGS AND PROVIDE ADEQUATE ELECTRICAL AND DATA PATHWAYS FOR WHERE FUTURE EQUIPMENT WILL BE LOCATED.
17. PROVIDE DATA RACEWAY AND EXTEND RACEWAY TO ABOVE ACCESSIBLE SPACE ABOVE CEILING WITHIN ROOM.

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.



MAIN LEVEL - POWER AND TECHNOLOGY

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

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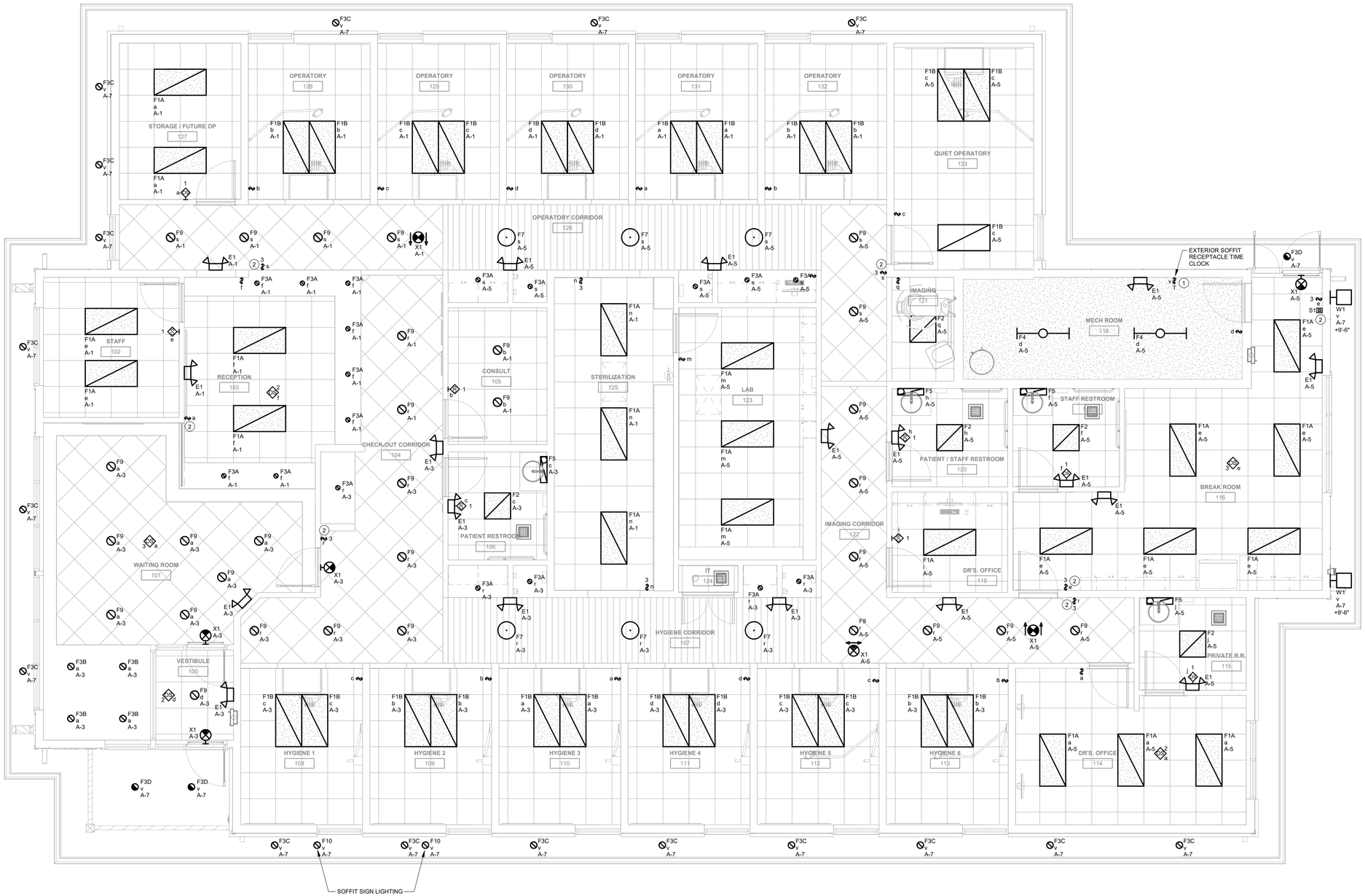
KEYNOTES (#)

1. TIME SWITCH TO BE A MULTIZONE INTERMATIC ET81415CR OR EQUAL 7-DAY ELECTRONIC ASTRONOMIC TIME SWITCH.
2. BASE BID: SINGLE POLE AND 3-WAY TOGGLE SWITCHES AS SHOWN.
   ALTERNATE #1: PROVIDE ALTERNATE PRICING FOR A LOW VOLTAGE LIGHTING SYSTEM SUCH THAT CORRIDORS (ZONES "r" AND "s"), LOBBY (ZONE "a"), AND BREAK ROOM (ZONE "e") EACH HAVE A LOW VOLTAGE SWITCH WITHIN EACH ROOM IN LOCATION SHOWN. PROVIDE ADDITIONAL OVERRIDE SWITCH AT BACK OF HOUSE CORRIDOR TO PROVIDE SINGLE LOCATION CONTROL FOR ALL ZONES INDICATED.

LIGHTING GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.



1 MAIN LEVEL - RCP

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

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BRANCH PANEL: A

LOCATION: MECH ROOM 118
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/240 SINGLE
PHASES: 1
WIRES: 3

SCCR RATING: 22,000
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 400 A

NOTES:
PROVIDE WITH INTEGRA L SURGE PROTECTION DEVICE

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		CKT NO	AMP	P	CIRCUIT DESCRIPTION
LIGHTING	1	20 A	1	908	1260			2	20 A	1	RECEPTACLE - QUIET OPERATORY 133
LIGHTING	1	20 A	3			1066	1260	4	20 A	1	RECEPTACLE - OPERATORY 132
LIGHTING	1	20 A	5	1519	1260			6	20 A	1	RECEPTACLE - OPERATORY 131
EXTERIOR LIGHTING	1	20 A	7			332	1260	8	20 A	1	RECEPTACLE - OPERATORY 130
RECEPTACLE - WAITING ROOM 101	1	20 A	9	900	1260			10	20 A	1	RECEPTACLE - OPERATORY 129
RECEPTACLE - STAFF 102	1	20 A	11			1440	1260	12	20 A	1	RECEPTACLE - OPERATORY 128
RECEPTACLE - RECEPTION 103	1	20 A	13	1260	720			14	20 A	1	LAB 123
PRINTER	1	20 A	15			1200	720	16	20 A	1	LAB 123
RECEPTACLE - RECEPTION 103	1	20 A	17	1080	1260			18	20 A	1	HYGIENE/IMAGING CORRIDOR
RECEPTACLE - CORRIDOR	1	20 A	19			900	720	20	20 A	1	OPERATORY CORRIDOR
RECEPTACLE - CONSULT 105	1	20 A	21	720	900			22	20 A	1	DRS OFFICE 119
RECEPTACLE - HYGIENE 108	1	20 A	23			1260	1440	24	20 A	1	BREAK ROOM 116
X-RAY 108	1	20 A	25	1600	1080			26	20 A	1	STERILIZATION 125
RECEPTACLE - HYGIENE 109	1	20 A	27			1260	1080	28	20 A	1	STERILIZATION 125
X-RAY 109	1	20 A	29	1600	1440			30	20 A	1	DRS OFFICE 114
RECEPTACLE - HYGIENE 110	1	20 A	31			1260	1260	32	20 A	1	RECEPTACLE - EXTERIOR
X-RAY 110	1	20 A	33	1600	1500			34	20 A	1	CUH-1
RECEPTACLE - HYGIENE 111	1	20 A	35			1260	2717	36	45 A	2	CU-1
X-RAY 111	1	20 A	37	1600	2717			38			
RECEPTACLE - HYGIENE 112	1	20 A	39			1260	2314	40	40 A	2	CU-2
X-RAY 112	1	20 A	41	1600	2314			42			
RECEPTACLE - HYGIENE 113	1	20 A	43			1260	2256	44	40 A	2	CU-3
X-RAY 113	1	20 A	45	1600	2256			46			
ULTRASONIC CLEANER - STERILIZATION 125	1	20 A	47			1200	1656	48	20 A	1	F-1
CABINET POWER - STERILIZATION 125	1	20 A	49	1200	1656			50	20 A	1	F-2
STERILIZERS - STERILIZATION 125	1	20 A	51			1200	1656	52	20 A	1	F-3
STERILIZERS - STERILIZATION 125	1	20 A	53	1200	696			54	20 A	1	EF-8
STERILIZERS - STERILIZATION 125	1	20 A	55			1200	480	56	20 A	1	GWH-1
STERILIZERS - STERILIZATION 125	1	20 A	57	1200	0			58	20 A	1	CP-1
INSTRUMENT WASHER - STERILIZATION 125	2	20 A	59			800	2500	60	20 A	2	DRYER - BREAK ROOM 114
			61	800	2500			62			
IDF RACK	1	20 A	63			360	600	64	20 A	1	CIELING HUNG MICROSCOPE
PANO/CONEBEAM	2	20 A	65	600	600			66	20 A	1	WALL MICROSCOPE
			67			600	180	68	20 A G	1	WASHER - BREAK ROOM 114
PANO/CONEBEAM	1	20 A	69	800	1200			70	20 A G	1	FRIDGE - BREAK ROOM 114
DISHWASHER/ DISPOSAL - BREAK ROOM 114	1	20 A	71			180	600	72	20 A	2	VACCUM
COMPRESSOR	2	20 A	73	600	600			74			
			75			600	0	76	20 A --	1	SPARE
SPARE	1	-- 20 A	77	0	0			78	20 A --	1	SPARE
SPARE	1	-- 20 A	79			0	0	80	20 A --	1	SPARE
SPARE	1	-- 20 A	81	0	0			82	20 A --	1	SPARE
SPARE	1	-- 20 A	83			0	0	84	20 A --	1	SPARE
				47605 VA		42596 VA					
				397 A		355 A					

LEGEND:
"G" INDICATES GFCI TYPE BREAKER.
"F" INDICATES RED LOCK-ON HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
LIGHTING	3615 VA	125.00%	4519 VA		
Other	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	90202 VA
POWER	46427 VA	100.00%	46427 VA	**TOTAL EST. DEMAND:**	76026 VA
RECEPTACLE	40160 VA	62.45%	25080 VA	**TOTAL CONN.:**	376 A
				TOTAL EST. DEMAND:	317 A

NOTES:

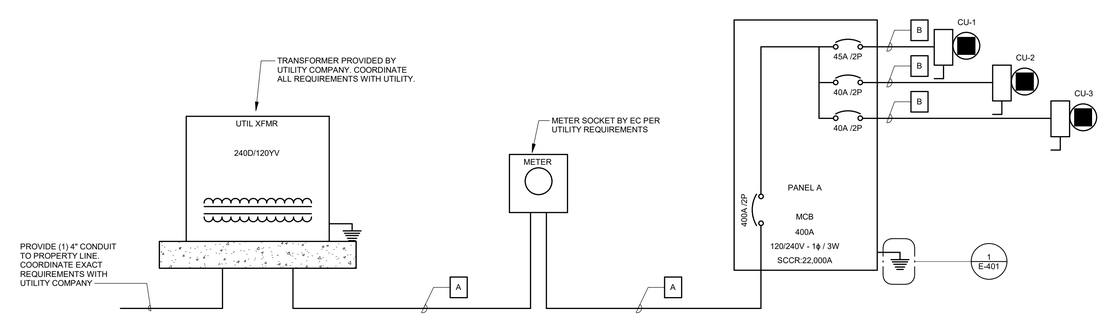
FEEDER SCHEDULE

NOTE: ALL CONDUCTORS THHN COPPER UNLESS OTHERWISE NOTED.

TAG	PHASE	GROUND	CONDUIT
A	1- SET (3) 500 MCM	-	(1) 3"
B	1- SET (3) #8	#10	(1) 3/4"

RISER DIAGRAM GENERAL NOTES

A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
B. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED.
C. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
D. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.
E. INSTALL UTILITY TRANSFORMER PAD, METERING EQUIPMENT, AND SERVICE ENTRANCE FEEDERS IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.



1 ONE-LINE DIAGRAM
NOT TO SCALE

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ELECTRICAL ONE-LINE DIAGRAM

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LIGHTING FIXTURE SCHEDULE

NOTES:

1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.
4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: MRJ

TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE	LOAD-VA	APPROVED EQUALS
E1	COMPASS LIGHTING	CU2HLSD	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS	120 V	2 VA	SURE-LITES, LIGHTALARMS
F1A	COLUMBIA	LCAT24-40MLG-EDU	RECESSED 2X4 LED TROFFER, 5000 LUMENS, 4000K, 80 CRI, CURVED SHIEILDING, EXTRUDED ACRYLIC LENS.	120 V	36 VA	AS APPROVED BY ENGINEER
F1B	COLUMBIA	LCAT24-50MLG-EDU	SIMILAR TO F1A BUT 5000K.	120 V	36 VA	AS APPROVED BY ENGINEER
F2	COLUMBIA	LCAT22-40MLG-EDU	RECESSED 2X2 LED TROFFER, 3500 LUMENS, 4000K, 80 CRI, ACRYLIC CENTER LENS, CURVED SHEILDING.	120 V	29 VA	AS APPROVED BY ENGINEER
F3A	PRESCOLITE	LFR-4RD-M-10L40K8-MD-DM1-LFR -4RD-T-MD-SWTCL	4" RECESSED DOWNLIGHT, 1000 LUMENS, 4000K, 80 CRI, WET LISTED, WHITE FLANGE FINISH.	120 V	8 VA	AS APPROVED BY ENGINEER
F3B	PRESCOLITE	LFR-6RD-M-15L40K8-MD-DM1-LFR -6RD-MD-SWTCL	SIMILAR TO F1A BUT 1500 LUMENS AND 6" IN DIAMETER	120 V	14 VA	AS APPROVED BY ENGINEER
F3C	PRESCOLITE	LFR-6RD-M-15L40K8-MD-DM1-LFR -6RD-MD-SBTCL	SIMILAR TO F1A BUT 1500 LUMENS, 6" IN DIAMETER, AND BLACK FLANGE FINISH	120 V	14 VA	AS APPROVED BY ENGINEER
F3D	PRESCOLITE	LFR-6RD-M-15L40K8-MD-DM1-EM-LFR-6RD-MD-SBTCL	SIMILAR TO F3C BUT WITH EMERGENCY BATTERY BACKUP.	120 V	14 VA	AS APPROVED BY ENGINEER
F4	COLUMBIA	CSL4-LSCS	4' UTILITY STRIP FIXTURE, SWITCHABLE LUMENS AND CCT, SET TO 5000 LUMENS, 4000K, 80 CRI, SURFACE MOUNTED, FROSTED ACRYLIC LENS.	120 V	38 VA	AS APPROVED BY ENGINEER
F5	VISUAL COMFORT & CO.	VS2473MBK: 3 - LIGHT VANITY	2' SPAN VANITY FIXTURE, BLACK FINISH, (3) A19 MEDIUM LIGHT BULBS REQUIRED, DAMP LISTED.	120 V	75 VA	AS APPROVED BY ENGINEER
F7	EUREKA	4273-23 LED 40 80 120 DV AC 36 XX XX WH	CORRIDOR PENDANT FIXTURE, 3200 LUMENS, 4000K, 80 CRI, SUSPENED WITH FIELD ADJUSTABLE AIRCRAFT CABLE, COORDINATE FINAL CANOPY AND POWER CORD FINISHES WITH OWNER PRIOR TO ORDERING.	120 V	35 VA	AS APPROVED BY ENGINEER
F9	PRESCOLITE	LBRP-M-LSSL40K9 LBRP-8RD-T-WC	8" RECESSED DOWNLIGHT, SWITCHABLE LUMEN PACKAGE SET TO 1200 LUMENS, 4000K, 90 CRI, WHITE CONE AND FLANGE.	120 V	19 VA	AS APPROVED BY ENGINEER
F10	JUNO	WF6C ADJ TUWH MW	6" RECESSED ADJUSTABLE WAFTER FIXTURE, SET TO 4000K, 800 LUMENS, 90 CRI, WET LISTED.	120 V	11 VA	AS APPROVED BY ENGINEER
W1	LITHONIA	TWPX2 LED P1 40K MVOLT DBLXD	EXTERIOR WALL SCONCE, 3150 LUMENS, 4000K, 90 CRI, BLACK FINISH, WET LISTED. REFER TO DRAWINGS FOR FINAL MOUNTING HEIGHT	120 V	15 VA	AS APPROVED BY ENGINEER
X1	COMPASS LIGHTING	CER	EXIT SIGN, UNIVERSAL MOUNTING. THERMOPLASTIC HOUSING, RED FACE, NICKEL CADMIUM BATTERY FOR 90 MINUTES OF EMERGENCY OPERATION.	120 V	5 VA	AS APPROVED BY ENGINEER

EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:

1. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

ABBREVIATIONS:

1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY
3R	NEMA 3R ENCLOSURE	MMS	MANUAL MOTOR STARTER WITH FUSES
4	NEMA 4 ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY...
4X	NEMA 4X ENCLOSURE	RD	RETURN AIR DUCT DETECTOR
BO	PROVIDED BY OTHERS	RSR	RUN STATUS RELAY , NORMALLY OPEN
CB	CIRCUIT BREAKER IN PANEL	SD	SUPPLY AIR DUCT DETECTOR
CSD	COMBINATION STARTER/DISCONNECT	SSP	START/STOP PUSHBUTTON WITH PILOT
CP	CORD AND PLUG PROVIDED WITH UNIT	SS	START/STOP PUSHBUTTON
ECB	ENCLOSED CIRCUIT BREAKER	ST	SHUNT TRIP
FAR	FIRE ALARM SHUTDOWN RELAY	TOR	TIME DELAY OFF RELAY
FDS	FUSED DISCONNECT SWITCH, HEAVY DUTY	TS	TOGGLE SWITCH WITH PLUG FUSE
GF	GROUND FAULT CIRCUIT INTERRUPTION	VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND-OFF-AUTO		

TAG	ELECTRICAL CHARACTERISTICS					DISCONNECT				CONTROLS		REMARKS
	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	STARTER	DESCRIPTION	
CP-1	120 V	1	FRACT.			CB						
CU-1	240 V	1			28.3	NFD	60	3R				
CU-2	240 V	1			24.1	NFD	30	3R				
CU-3	240 V	1			23.5	NFD	30	3R				
CUH-1	120 V	1		1.5		INT						
EF-1	120 V	1	FRACT.									
EF-2	120 V	1	FRACT.									
EF-3	120 V	1	FRACT.									
EF-4	120 V	1	FRACT.									
EF-5	120 V	1	FRACT.									
EF-6	120 V	1	FRACT.									
EF-7	120 V	1	FRACT.									
EF-8	120 V	1	1/4			INT						COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR. EXHAUST FAN TO BE INTERLOCKED WITH MOTORIZED DAMPER SUCH THAT WHEN FAN IS CALLED TO RUN, DAMPER IS POWERED OPEN. PROVIDE ALL RELAYS AND ASSOCIATED EQUIPMENT FOR A FULLY FUNCTIONING EXHAUST SYSTEM.
F-1	120 V	1		0.75		CB						
F-2	120 V	1		0.75		CB						
F-3	120 V	1		0.75		CB						
GWH-1	120 V	1			5.0	CB						

LIGHTING CONTROLS SCHEDULE

NOTES:

1. ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED.
2. ALL DEVICES PROVIDED WITH MANUFACTURER LIMITED 5 YEAR WARRANTY.
3. PROVIDE LIGHTING CONTROLS WITH MANUFACTURER COMPLIANT POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. MANUFACTURER OR MANUFACTURERS REP TO PROVIDE DEVICE QUANTITES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP SUBMITTAL PROCESS. PROVIDE DIMMING COMPATIBLE DEVICES WHERE DIMMING CONTROLS ARE SHOWN. COORDINATE DIMMING TYPE WITH LIGHTING FIXTURES SHOWN. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE DIMMING TYPE.
4. WHERE WIRELESS LIGHTING CONTROLS ARE PROVIDED. POWERPACKS SHALL BE PROVIDED AND INSTALLED WITHIN MANUFACTURER RECOMENDED DISTANCES TO ENSURE CONTROLLER OPERATION.
5. INSTALL LOW VOLTAGE POWER PACKS AND ROOM CONTROLLERS ABOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL POWERPACKS EXPOSED IN COMMON SPACES OR IN INACCESSIBLE LOCATIONS.
6. PROVIDE FACTORY AUTHORIZED REPRESENTATIVE TO DEMONSTRATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT.
7. WHERE APPROVED EQUAL MANUFACTURER PRODUCTS SENSOR COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL DEVICES AS NECCESARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
8. ETD'S AND ALL EMERGENCY LIGHTING CONTROLS COMPONENTS SHALL BE TESTED AND LISTED AS COMPATIBLE BY MANUFACTURER WITH NORMAL LIGHTING CONTROLS IN ALL AREAS.
9. UNLESS INDICATED OTHERWISE, LIGHTING CONTROL SCHEMES/OPERATION SHALL BE AS FOLLOWS:

CORRIDORS, VESTIBULES, COMMON SPACES:	SENSORS PROGRAMMED FOR OCCUPANCY MODE, AUTOMATIC ON/OFF OPERATION, 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.
ALL OTHER SPACES	SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM.DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.

DESIGNED BY: MRJ

TYPE	DESCRIPTION	ELECTRICAL	MOUNTING	SENSOR TYPE	COVERAGE	APPROVED MANUFACTURERS
S1	FOUR ZONE CONTROL LIGHT SWITCH. NON-DIMMING LIGHTING CONTROL, LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC.	LOW VOLTAGE	WALL SWITCH / SINGLE GANG	N/A	N/A	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, AS APPROVED BY ENGINEER.
OS 1	WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS.	120V	WALL SWITCH / SINGLE GANG	PASSIVE INFRARED	1000 SQ FT / 180 DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.
OS 2	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR. WHITE FINISH. AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS. INDOOR USE.	LOW VOLTAGE	CEILING / 8'-12' MH	DUAL-TECH	500 SQ FT / 360 DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.
OS 3	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR. WHITE FINISH. AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS. INDOOR USE.	LOW VOLTAGE	CEILING / 8'-12' MH	DUAL-TECH	2000 SQ FT / 360 DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.

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DOWNING
JONES COUNTY FAMILY DENTAL

3201 SE 37th Street
Anamosa, Iowa 52205

Project No: 23092

Date: 09/26/17

PERMIT SET

#	Revision	Date

Drawing Name:
ELECTRICAL SCHEDULES

Drawing #:
E-302

Plot Date & Time: 6/2/2023 11:28:15 AM

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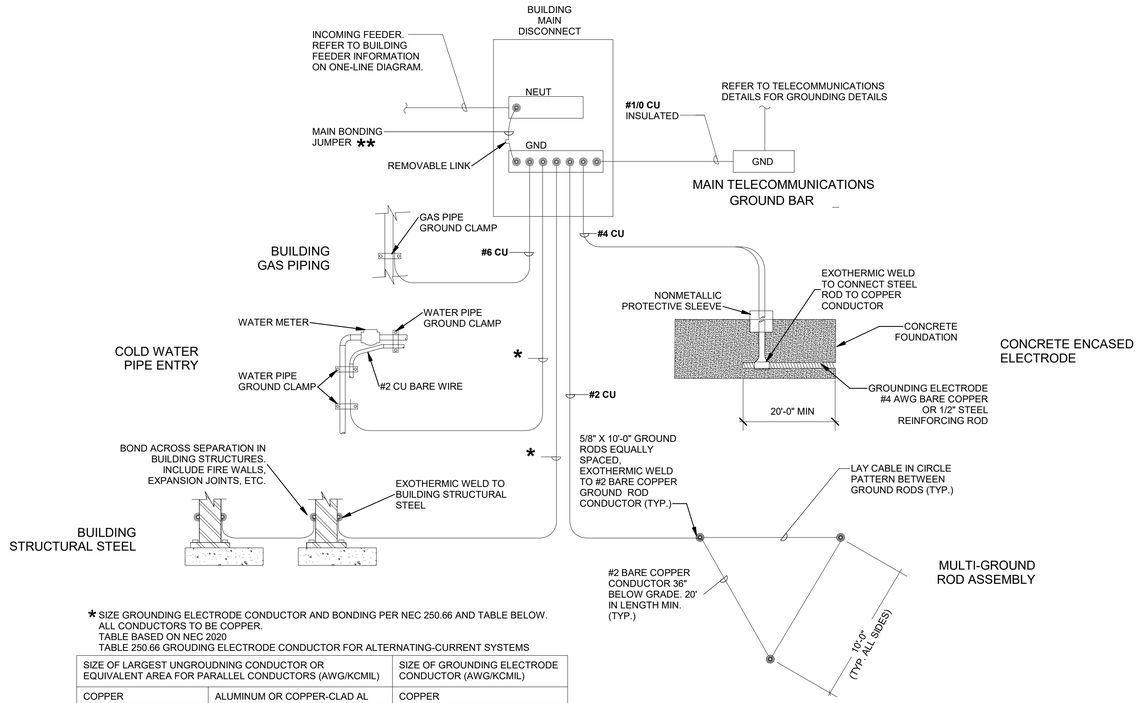


* SIZE GROUNDING ELECTRODE CONDUCTOR AND BONDING PER NEC 250.66 AND TABLE BELOW.
ALL CONDUCTORS TO BE COPPER.
TABLE BASED ON NEC 2020
TABLE 250.66 GROUDING ELECTRODE CONDUCTOR FOR ALTERNATING-CURRENT SYSTEMS

SIZE OF LARGEST UNGROUDNING CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/KCMIL)		SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/KCMIL)
COPPER	ALUMINUM OR COPPER-CLAD AL	COPPER
#2 OR SMALLER	#1/0 OR SMALLER	#8
#1 OR #1/0	#2/0 OR #3/0	#6
#2/0 OR #3/0	#4/0 OR 250	#4
OVER #3/0 THROUGH 350	OVER 250 THROUGH 500	#2
OVER 350 THROUGH 600	OVER 500 THROUGH 900	#1/0
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	#2/0
OVER 1100	OVER 1750	#3/0

** SIZE BONDING JUMPER PER NEC 250.102. USE TABLE ABOVE FOR ALL CONDUCTORS BETWEEN #2 AND 1100. ALL INCOMING CONDUCTORS OVER 1100 CU OR 1750 AL SHALL BE SIZED PER THE TABLE 250.102(C). SERVICE EQUIPMENT SHALL BE SUPPLIED WITH BONDING JUMPER FROM THE MANUFACTURER.

NOTES

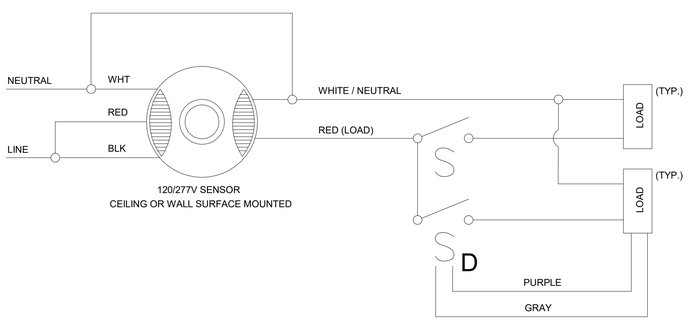
A. ALL AVAILABLE GROUNDING ELECTRODES WHICH ARE PRESENT AT THE BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM (GES). ADDITIONAL CODE-REQUIRED GROUNDING CONNECTIONS NOT SHOWN SHALL BE PROVIDED. CONNECTIONS WHICH ARE ENCASED, UNDERGROUND, OR INACCESSIBLE SHALL BE EXOTHERMIC WELD.

B. ALL BONDING JUMPERS CONNECTING GROUNDING ELECTRODES TO THE GES SHALL BE SIZED EQUAL TO THE GROUNDING ELECTRODE CONDUCTOR (GEC) IN ACCORDANCE WITH NEC 250.53(C). OTHER BONDING JUMPERS SHALL BE SIZED AS OTHERWISE DESCRIBED IN NEC ARTICLE 250. CONDUCTORS SHALL BE BARE COPPER UNLESS OTHERWISE NOTED.

C. REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT AND MATERIAL REQUIREMENTS. GROUNDING AND BONDING METHODS AND MATERIALS SHALL COMPLY WITH NEC ARTICLE 250.

D. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL REQUIREMENTS RELATED TO TELECOM GROUNDING.

1 GROUNDING ELECTRODE SYSTEM
NOT TO SCALE



2 OCCUPANCY SENSOR LIGHTING CONTROL WIRING DETAIL
NOT TO SCALE

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DOWNING
JONES COUNTY FAMILY DENTAL
3201 SE 37th Street
Anamosa, Iowa 52205

Project No: 23092
Date: 06/11/19
PERMIT SET

#	Revision	Date

Drawing Name:
ELECTRICAL DETAILS

Drawing #:
E-401

Plot Date & Time: 6/20/2023 11:28:14 AM

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FINISH SELECTIONS

FLOORING

WALK-OFF CARPET (WCPT)
- MANUFACTURER: MANNINGTON
- PRODUCT: CHARGE
- PRODUCT #: 11360
- COLOR: KINETIC
- INSTALLATION METHOD: QUARTER TURN

CARPET TILE (CPT-1)
- MANUFACTURER: PATCRAFT
- PRODUCT: CRAFTED SURFACE - HEIRLOOM TWEED
- PRODUCT #: I0549-00530
- COLOR: HEIRLOOM TWEED
- SIZE: 18 X 36
- INSTALLATION METHOD: STAGGER

LUXURY VINYL TILE (LVT-1)
- MANUFACTURER: MANNINGTON
- PRODUCT: AMTICO
- PRODUCT #: AROW8150
- COLOR: CORNISH OAK
- SIZE: 4.5 X 36
- EDGE: SQUARE
- INSTALLATION METHOD: STAGGER

LUXURY VINYL TILE (LVT-2)
- MANUFACTURER: MANNINGTON
- PRODUCT: AMTICO SIGNATURE - ABSTRACT
- PRODUCT #: AROAUC31
- COLOR: STUCCO INDIGO
- SIZE: 4.5 X 36
- EDGE: SQUARE
- INSTALLATION METHOD: STAGGER

LUXURY VINYL TILE (LVT-3)
- MANUFACTURER: MANNINGTON
- PRODUCT: COLOR ANCHOR
- PRODUCT #: C138
- COLOR: COTTONTAIL
- SIZE: 6 X 36
- INSTALLATION METHOD: STAGGER

PORCELAIN TILE (PT-1)
- MANUFACTURER: DALTILE
- PRODUCT: SCRAPBOOK
- PRODUCT #: SB35
- COLOR: PETAL
- SIZE: 8"
- GROUT MANUFACTURER: MAPEI
- GROUT COLOR: GRAY

WALL BASE/TRANSITIONS

VINYL BASE (VB)
- MANUFACTURER: TARKETT
- PRODUCT: 4" TRADITIONAL
- PRODUCT #: 48
- COLOR: GRAY

FLOORING TRANSITION STRIPS
- MANUFACTURER: MANNINGTON
- PRODUCT: FUSION
- PRODUCT #: 217
- COLOR: CHARCOAL

PAINT

PNT-1
- MANUFACTURER: SHERWIN WILLIAMS
- PRODUCT #: SW 6252
- COLOR: ICE CUBE

PNT-2
- MANUFACTURER: SHERWIN WILLIAMS
- PRODUCT #: SW 7019
- COLOR: GAUNTLET GRAY

PNT-3
- MANUFACTURER: SHERWIN WILLIAMS
- PRODUCT #: SW 7602
- COLOR: INDIGO BATIK

VINYL WALLCOVERINGS

VWC-1
- MANUFACTURER: MDC
- PRODUCT: COMMERCE
- PRODUCT #: MRE1696
- COLOR: INK PRESS
- METAL CORNER TRIM: BLACK

ACOUSTICAL CEILING PANELS

ACT-1
- MANUFACTURER: USG
- PRODUCT: ASTRO
- PRODUCT #: 8821

PLASTIC LAMINATE

PLAM-1
- MANUFACTURER: FORMICA
- PRODUCT #: 9285C-58
- COLOR: WHITE TWILL
- FINISH: MATTE

PLAM-2
- MANUFACTURER: FORMICA
- PRODUCT #: 3706-58
- COLOR: PATINE CONCRETE
- FINISH: MATTE

SOLID SURFACE

SS-1
- MANUFACTURER: SILESTONE
- COLOR: CALACATTA GOLD
- FINISH: GLOSS

DOOR FINISHES

PLAM-3
- MANUFACTURER: FORMICA
- PRODUCT #: 6694-26
- COLOR: CERUSE GRAY WALNUT
- FINISH: OILED WOOD
- BID ALT: 6694-58

HOLLOW METAL FRAME:
- PNT-2

MISCELLANEOUS

ELECTRICAL DEVICES
- COLOR: WHITE

CABINET HARDWARE:
- PRODUCT: STANDARD WIRE PULL
- COLOR: MATTE BLACK

WOOD ACCENT (WD-1):
- MANUFACTURER: ELMWOOD
- PRODUCT: WALL / CEILING APPLICATION
- THICKNESS: 5/8"
- LENGTHS: 6'-8' RANDOM
- COLOR: BORDEAUX CASTLE

WINDOW SHADES:
- MANUFACTURER: DRAPER
- PRODUCT: E SCREEN
- OPACITY: 1%
- COLOR: CHARCOAL / GREY-STONE
- BID ALT: ELECTRICAL IN WAITING ROOM

RESTROOM MIRROR:
- MANUFACTURER: JOSS & MAIN
- PRODUCT: ALLESANDRA METAL WALL MIRROR
- SIZE: 30" W X 40" H
- COLOR: BLACK
- QTY: 4
- PRODUCT #: J000345000

CORRIDOR MIRROR:
- MANUFACTURER: JOSS & MAIN
- PRODUCT: HUB OVAL RUBBER WALL MIRROR
- SIZE: 24" W X 36" H
- COLOR: BLACK
- QTY: 4
- PROUDCT #: J000373630

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f: 515.961.0468
www.downingconstruct.com
www.downingplanroom.com

Jones County Family Dental
3201 SE 37th Street
Anamosa, Iowa 52205

BID SET - NOT FOR CONSTRUCTION

DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

DRAWN BY: **Precon. Team**

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
--/--/----
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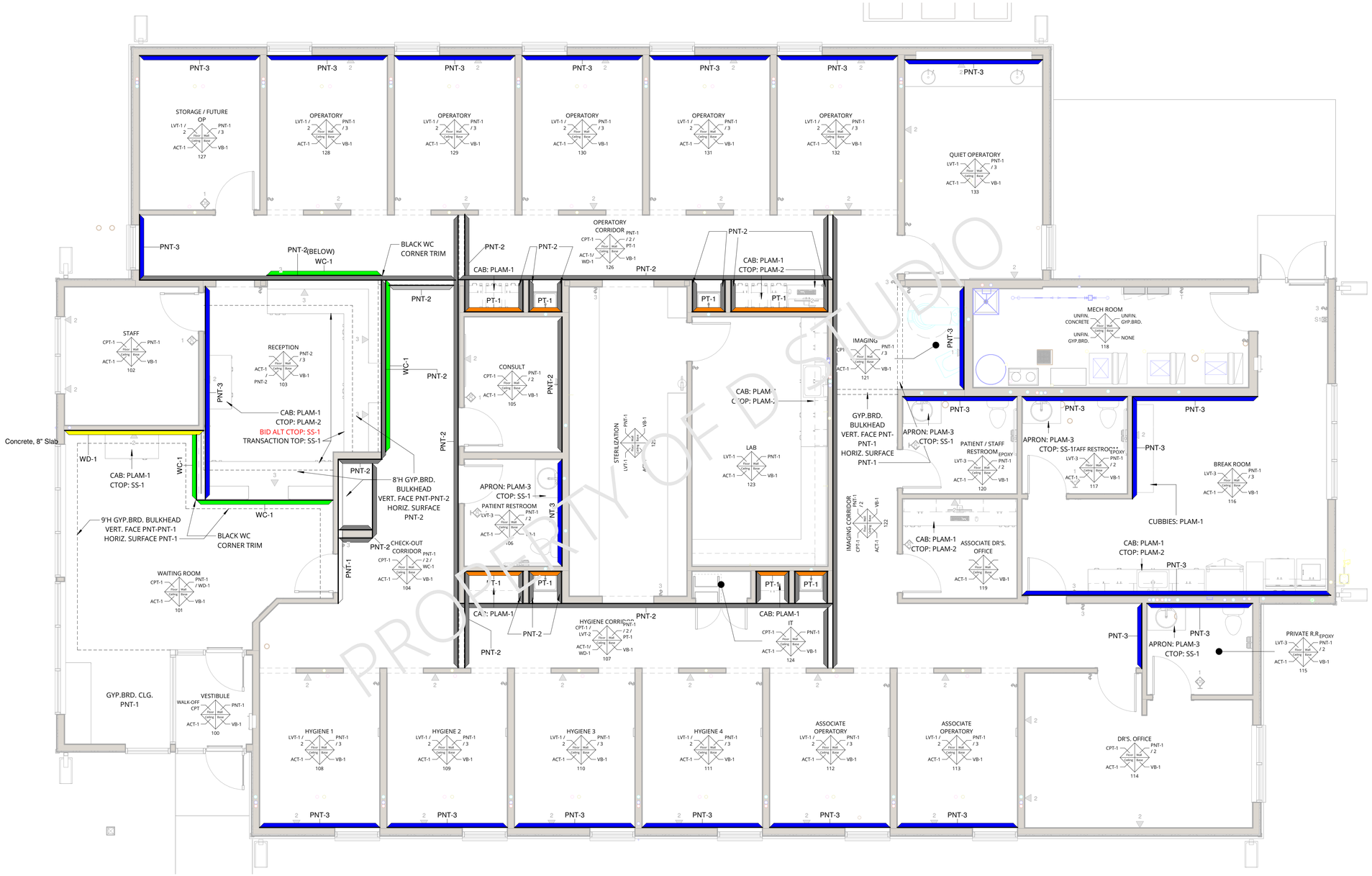
PLAN NO. = **90-154**

DWG. LIST

INTERIOR DESIGN
FINISH SELECTIONS

SHEET NO.

ID-100



INTERIOR DESIGN NOTE

THE INTERIOR DESIGN **FINISHES**
FOR THIS PLAN ARE UNDER DEVELOPMENT, AND NEED
TO BE VERIFIED/ OK'D BY THE CLIENT.
THEREFORE, THEY ARE SUBJECT TO CHANGE.
(UNLESS NOTED OTHERWISE)

PAINT SCHEME

FOR BIDDING PURPOSES:
ASSUME **(5)** DIFFERENT PAINT COLORS
(UNLESS NOTED OTHERWISE)

FINISHES NOTE:

SEE FINISH SELECTION SHEET FOR ALL FINISHES.

1 MAIN LEVEL FINISH PLAN

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

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PLAN NO. = **90-154**

DWG. LIST

INTERIOR DESIGN FINISH PLAN

SHEET NO.

ID-101

FINISHES NOTE:

SEE FINISH SELECTION SHEET FOR ALL FINISHES.

1 MAIN LEVEL FLOORING PLAN

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

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CONSTRUCTION DOCUMENT SET - PLANS FOR CONSTRUCTION

DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

DRAWN BY: Precon. Team

ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
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PLAN NO. = 90-154

DWG. LIST

INTERIOR DESIGN FLOORING PLAN

SHEET NO.

ID-111

Overall Building Area (Including Exterior Walls)	
Name	Area
GROSS BUILDING AREA	5,368 SF

1 COLOR SCHEMATIC DESIGN MAIN LEVEL PLAN

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

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DISCOVER/ ANALYZE | DEVELOP | COMMIT | DELIVER

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ORIGINAL CONSTRUCTION DOCUMENT
03/08/2023

REVISIONS

05/12/2023 - Progress Set
05/31/2023 - Check Set
06/01/2023 - Bid Set
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PLAN NO. = 90-154

DWG. LIST

SCHEMATIC DESIGN MAIN LEVEL PLAN

SHEET NO.

SD-101

Chief of Police Recruitment and Appointment Timeline

	Date	Action Item
☐	07/01/23	Chief Hoyt begins appointment as city administrator. Sgt. Brokaw begins appointment as Interim Chief of Police.
☐	07/10/23	City Council Meeting - Review Chief of Police Recruitment and Appointment Timeline. - Review Police Chief Application Packet
☐	07/11/23	Advertise/Post public hiring required hiring notice (In accordance Iowa Code §35C).
☐	08/11/23	Deadline for application submissions
☐	08/14/23 – 08/18/23	Preliminary review of candidates (Council Update-Email)
☐	08/28/23	City Council Meeting (Closed Session after regular meeting) - Formal review of candidates
☐	08/29/23 – 08/31/23	Schedule initial panel interview with qualified candidates
☐	09/05/23 – 09/09/23	Initial panel interviews
☐	09/11/23	City Council Meeting (Closed Session after regular meeting) - Formal review of candidates
☐	09/12/23 – 09/15/23	Conduct background investigations
☐	09/18/23 – 09/21/23	Conduct pre-employment assessments
☐	09/23/23	Public "Meet & Greet" with candidates – 9:00am-11:30am City Administrator Lunch with candidates – 11:30am-1:00pm Formal interviews with Mayor and Council – 1:00pm-5:00pm Special/Closed Session (Final selection) – 5:00pm
☐	09/25/23	Council Meeting - Resolution to approve Conditional Offer of Employment
☐	10/02/23 – 10/06/23	Pre-employment physical/vision/hearing assessments
☐	10/09/23 – 10/13/23	Tentative start date for new Chief of Police (flexible depending on needs of candidate)

EMPLOYMENT OPPORTUNITY

The City of Anamosa, Iowa is seeking a qualified and professional law enforcement leader who highly values dedication, community, and integrity, to serve as our city's next chief of police.

City of Anamosa
107 S. Ford Street
Anamosa, IA52205
Office: 319-462-6055
Fax: 319-462-6081
Web: www.anamosa-iowa.org

CHIEF OF POLICE

The City of Anamosa (pop. 5,450) is seeking a qualified and professional law enforcement leader who highly values dedication, community, and integrity, to serve as our city's next chief of police.

Under the general direction of the city administrator, the chief of police is responsible for the operation and performance of the Police Department including the uniformed police division and emergency services administration division. The administrative and professional responsibilities of the chief of police will include assessing, planning, organizing, coordinating, and managing the activities and personnel of the police department. The chief of police will collaborate with other law enforcement agencies and provide advice, guidance, and policy recommendations to the city administrator, city council, other city departments, and various boards and committees as it relates to police matters.

Summary of Required Qualifications:

- A bachelor's degree (4-year degree) in criminal justice, public administration, or related field, a master's degree is preferred. A combination of education and experience may be considered in lieu of a bachelor's degree.
- Eight to ten years of related work experience in public safety/law enforcement, with five years in a supervisory management position.
- Must be able to obtain an Iowa Professional Permit to Carry Weapons
- Must pass a pre-employment physical and drug screen, psychological examination (MMPI-II), and meet the licensing standards established by Iowa Law Enforcement Academy.
- Must have and maintain a valid Iowa driver's license.
- Good working knowledge of law enforcement operations, management, budgeting, workplace safety, labor relations, and related matters.
- Must have and maintain a valid Iowa driver's license.
- Must establish residency within the city limits of Anamosa, within six months of being appointed to the position.

The chief of police is an FLSA exempt position. Starting salary range is $80,000-$90,000, DOQ.

To apply, submit a cover letter, resume, and Anamosa Police Department application to: anamosa.employment@gmail.com.

Application Deadline:
August 11, 2023, at 4:30pm

Direct application materials or additional questions to:
Jeremiah Hoyt, City Administrator
Email: jeremiah.hoyt@anamosa-ia.org
Phone: (319)462-6055

The City of Anamosa is an Equal Opportunity Employer

	ANAMOSA POLICE DEPARTMENT ANAMOSA, IOWA STANDARD OPERATING PROCEDURE		
	NUMBER: 3.5	ISSUE DATE: 10/12/18	EFFECTIVE DATE: 11/01/18
SUBJECT:	JOB DESCRIPTION – CHIEF OF POLICE		

GENERAL:
Under the general direction of the City Administrator, the Chief of Police is responsible for the operation and performance of the Police Department including the Uniformed Police Division and Emergency Services Administration Division. The administrative and professional responsibilities of the Chief of Police will include assessing, planning, organizing, coordinating, and managing the activities and personnel of the police department. The Chief of Police also provides advice, guidance, and policy recommendations to the City Administrator, City Council, other city departments, and various boards and committees as it relates to police department matters. In the performance of his/her duties, the chief of police will collaborate with other law enforcement agencies.

PURPOSE:
To establish the job description for the Chief of Police at the Anamosa Police Department.

PRIMARY DUTIES & RESPONSIBILITIES:

1. Enforce all laws, ordinances, and regulations and bring all persons committing any offense before the proper court.
2. Provide recommendations and assist in the development of laws and ordinances regarding public safety. Provide recommendations for installing and/or removing traffic control devices. Provide recommendations regarding department activities, policies, and needs.
3. Monitor and review new laws and legislative changes; keeping department personnel apprised of the same. Attend conferences, training events, and meetings to stay informed of various matters and procedures pertaining to law enforcement and the management of a law enforcement organization.
4. Identify community priorities with respect to crime prevention, law enforcement, and the protection of life and property. Attend meetings, training events, and presentations with citizens, businesses, civic organizations and interest groups to support and promote community priorities.
5. Monitor criminal activity and determine proactive law enforcement strategies and/or programs to be implemented.
6. Execute and return all writs and other processes directed to the Police Chief.
7. Report all motor vehicle accidents investigated to the State Department of Transportation (Code of Iowa, Sec. 321.266).
8. Be responsible for the custody of prisoners, including conveyance to detention facilities as may be required.
9. When requested, provide aid to other City officers, boards, and commissions in the execution of their official duties.

10. Act as a liaison and coordinate law enforcement operations with other city, county, state and federal law enforcement agencies as necessary.

11. Provide for such investigation as may be necessary for the prosecution of any person alleged to have violated any law or ordinance. Appear in court to present evidence and testimony.

12. Provide oversight for intelligence gathering operations and ensure that all departmental and intelligence files are properly and securely maintained.

13. Keep a record of all arrests made in the City by showing whether said arrests were made under provisions of State law or City ordinance, the offense charged, who made the arrest, and the disposition of the charge.

14. Compile and submit to the Mayor and Council an annual report as well as such other reports as may be requested by the Mayor or Council. Attend City Council meetings to provide information and/or physical security as necessary.

15. Compile and submit information and reports to the City Administrator and/or City Attorney as requested. Consult with City Administrator and/or City Attorney on non-routine matters.

16. Compile and submit information and reports, as required by law, to various Federal, State, and Local government agencies.

17. Be in command of all officers appointed for police work and be responsible for the care, maintenance, and use of all vehicles, equipment, and materials of the department.

18. Plan, organize, and manage the operations and affairs of the Anamosa Police Department. Coordinate and direct department resources during emergencies and special events or projects.

19. Develop the organizational structure and chain-of-command, maintaining communication within the department to carry out the policies and goals of department and the city.

20. Oversee the financial aspects of the police department, including preparation and presentation of the annual budget, accounting for department revenues and expenditures, directing the implementation of the department's budget, and applying for appropriate grants and other outside funding opportunities. Oversee capital expenditures for equipment and facilities as needed. Assure that operations of the police department are within authorized resources.

21. Maintain adequate staffing, through the authorization and/or preparation of work schedules and leave requests.

22. Manage the personnel functions of the department including selection and training, performance evaluations, complaints against employees, informal inquiries, internal investigations, grievances, awards and disciplinary procedures, training directives and needs, and other general personnel matters.

23. Provide guidance and assistance to subordinate personnel by instructing proper procedures, advising of law enforcement problems, and responding to calls when necessary.

24. Recommend, interpret, and establish the organizational policies and standard operating procedures within the Anamosa Police Department.

25. Ensure employee adherence to the organizational policies and standard operating procedures established within the Anamosa Police Department, as well as those listed in the City's Personnel Manual.

26. Maintain effective public relations and represent the police department in a tactful and courteous manner, respond to public inquiries, prepare press releases, receive citizen complaints, and mediate civil issues.

27. Direct the development and implementation of strategic plans for the police department consistent with the City's long-term objectives.

28. Performs related duties as assigned.

REPORTS TO:

The Chief of Police works under the general guidance and direction of the City Administrator.

SUPERVISES:

The Chief of Police exercises supervision over all police department personnel through direct oversight or indirect subordinate supervision.

MINIMUM QUALIFICATIONS:

- A bachelor's degree (4-year degree) in criminal justice, public administration, or related field, a master's degree is preferred. Additional years of experience beyond the minimum requirements may be exchanged for the education requirement at the rate of one year of additional experience for one year of the required education.
- Eight to ten years of related work experience in public safety/law enforcement field, with five years in a supervisory management position (Sergeant or above).
- Ability to organize, direct and coordinate a variety of projects and activities
- Strong leadership and management skills
- Strong ethical, professional and service oriented leadership
- Strong interpersonal skills
- Ability to handle confidential information in a sensitive manner
- Ability to work efficiently with no direct supervision
- Excellent oral and written communication skills including
- Ability to use sound, independent judgment
- Extensive knowledge of and ability to apply law enforcement principles, practices, and methods, including, but not limited to: court procedures/practices, state/federal reporting.
- Extensive knowledge of local, state and federal laws, codes or ordinances relating to municipal law enforcement

- Good working knowledge of law enforcement operations, management, budgeting, workplace safety, labor relations, and related matters
- Ability to read and understand departmental policies, rules, laws and regulations.
- Ability to operate a vehicle safely and efficiently.
- Proficiency with PCs and computer software and applications
- General knowledge of office equipment including, but not limited to: telephone, calculator, photo copier, and shredder
- Must have and maintain a valid Iowa driver's license.
- Any equivalent combination of education and experience

SPECIAL QUALIFICATIONS:

- Shall be able to meet minimum standards for Iowa Law Enforcement Officers as prescribed by the Code of Iowa and Iowa Law Enforcement Academy.
- Must possess an Iowa Professional permit to carry weapons
- Must have and maintain Iowa NCIC Certification
- Must have and maintain CPR/First Aid Certification

EQUIPMENT USED:

Proficient use of firearms, portable and mobile radios, radar units, less lethal weapons, computers/mobile data terminals, telephones, copy/fax machines, and other police-related equipment.

OTHER REMARKS

The Chief of Police must complete a probationary period, not to exceed six months in length. The Chief of Police shall be subject to one or more performance evaluations during the probationary period to determine if they are eligible to maintain their position on a permanent basis. The Chief of Police is often required to work irregular and unscheduled hours, in excess of 40 hours per week, to perform duties and/or assist with emergency situations. The Chief of Police shall be required to establish residency within the city limits of Anamosa, within six months of being appointed to the position.

Anamosa Police Department

100 E. 1st St.
Anamosa, IA 52205

AN EQUAL OPPORTUNITY EMPLOYER

Qualified applicants are eligible to compete for all positions without regard to race, national origin, sex, creed, religion, age or marital status.

APPLICATION FOR PEACE OFFICER EMPLOYMENT

Notice: **Application must be computer generated, typewritten or clearly printed in ink**. **ALL** questions must be answered and accompanying documents received PRIOR to processing. If not applicable, indicate NA (not applicable). If space provided is not sufficient for complete answers, or you wish to furnish additional information, attach sheets of the same size as this application and number answers to correspond with questions.

CHECK POSITION(S) APPLIED FOR.

- ☐ Police Chief
- ☐ Peace Officer (Patrolman)
- ☐ Other

PERSONAL HISTORY

a. Name in full (last, first, middle)		b. Social Security Number
c. List all other names you have used. Include nicknames, maiden name, and previous married surname(s).	d. Have you previously applied with the Anamosa Police Department/City of Anamosa? If yes, specify dates.	e. E-Mail address
f. Birth date (month, day, year)	g. Place of birth	h. Are you a U.S. citizen? ☐ Yes ☐ No
i. Drivers license number		j. Current drivers license state of issue
k. List all states in which you have had a drivers license issued to you:		l. Are you currently certified by the Iowa Law Enforcement Academy? ☐ Yes ☐ No Date Certified: _____ MO/DAY/YR

CONTACT INFORMATION

a. Current mailing address _____ _____ Street address/P.O. Box Apt. no. _____ _____ _____ City State Zip code	To schedule appointments we will need the following telephone numbers: Residence: ( ) _____
b. Permanent address if different from above _____ Street address/P.O. Box Apt. no. _____ _____ _____ City State Zip code	Office or alternate #: ( ) _____

EDUCATION RECORD

SUBMIT BOTH HIGH SCHOOL AND COLLEGE TRANSCRIPTS WITH THIS APPLICATION.
*********APPLICATIONS WILL NOT BE PROCESSED WITHOUT TRANSCRIPTS*********

High School: Circle highest grade completed 8 9 10 11 12 High school diploma or equivalent (GED)? ☐ Yes ☐ No

Name	Address	Dates Attended		Date Graduated
		From	To	

College/University: Circle No. of years completed 1 2 3 4 5 6 or more

Name of School and Location	Dates Attended		Credit Received		Field of Study or Area of Concentration		Type of Degree Obtained
	mo / yr	mo / yr	Semester hours	Quarter hours	Major	Minor	

a. If you are working toward a degree, please give the anticipated completion date. _____

b. Has any disciplinary action, including scholastic probation and dismissal, ever been taken against you during your academic career?

☐ Yes ☐ No If yes, complete the following: _____ School _____ Date

Type of action taken: _____

c. List awards, honors, citations, athletic endeavors, and any other special recognition you received.

_____

_____

d. List any special abilities, (computer skills, etc.) special interests or hobbies: _____

_____

e. List languages, including American Sign Language (ASL), in addition to English that you speak, read and write fluently:

_____

f. If you are licensed or certified to practice a trade or profession, complete the following:

Specialty: _____ License issued by: _____

INTERNSHIPS

Name of Business: _____ From: (mo/yr) _____ To: (mo/yr) _____

Address: _____ City: _____ State: _____

Work supervisor: _____ Example of duties performed: _____

Name of Business: _____ From: (mo/yr) _____ To: (mo/yr) _____

Address: _____ City: _____ State: _____

Work supervisor: _____ Example of duties performed: _____

RESIDENCE HISTORY

List chronologically ALL of your residences in the past 10 years (include addresses while attending school if away from home, and all military addresses including any off military base). If additional space is needed, please attach a separate sheet.

Dates		Apt.				
From	To	No.	Street Address	City	County	State

FINANCIAL RECORD

a. What is the total amount of your monthly financial obligations? _____

b. Are monthly financial obligations kept current ? ☐ Yes ☐ No

If no, explain: _____

c. Do you have any sources of income other than your salary? ☐ Yes ☐ No
If yes, explain: _____

COURT RECORD

a. Have you ever been arrested or charged with any violation *including traffic citations*, but not parking tickets? ☐ **Yes** ☐ **No**
(List all such matters even if not formally charged, or no court appearance, or found not guilty, or matter settled by payment of fine or forfeiture of collateral.)

Date	Place	Charge	Final Disposition	Details

b. Has any member of your immediate family, i.e. spouse, parents, brother, or sister ever been arrested for any violation other than traffic? ☐ **Yes** ☐ **No** If yes, list below**:**

c. Have you ever been a plaintiff or defendant in any court action (including divorce)? ☐ **Yes** ☐ **No**
If yes, give date, place, court names of parties involved, nature of action, and final disposition**.**

SELECTIVE SERVICE / MILITARY RECORD

a. Have you ever (**check all that apply**):

Registered with the Selective Service, if applicable? ☐ Yes ☐ No

Applied for a position with any branch of the Armed Forces of the United States? ☐ Yes ☐ No

Been rejected by any branch of the Armed Forces for any reason? ☐ Yes ☐ No If yes, state reason(s):

_____

Been inducted into any branch of the Armed Forces? ☐ Yes ☐ No
If yes, complete sections b-h

Served on active duty in any branch of the Armed Forces? ☐ Yes ☐ No
If yes, complete sections b-h

b. Dates of active duty (month, day and year)	c. Branch of military service	d. Highest rank attained	e. Serial Number
From _____To _____			

f. Type of discharge _____

Date DD-214
Form recorded _____ County _____ State _____

Provide a copy of your DD-214 with application.

g. Member of Reserve/National Guard?

☐ Yes ☐ No

Service Branch _____
Location _____

h. Was any type of disciplinary action taken against you in the service? ☐ Yes ☐ No

Nature of disciplinary action? _____

ORGANIZATION MEMBERSHIP (Optional)

a. Are you now, or have you ever been a member of any club, society or organization? ☐ Yes ☐ No
If yes, list below**.** ***Do not abbreviate*****.**

Organization	City and State	Dates	List position(s) held and extent of activity

VOLUNTEER ACTIVITIES/EMPLOYMENT

Volunteer Activities (including volunteer fire fighting, police or sheriff reserve and civic activities)

Sponsoring Organization	City and State	Dates	List position(s) held and extent of activity

EMPLOYMENT

List your work experience, starting with the most recent. Include summer and part-time employment in addition to jobs held as a teenager. *Account for all time*. If unemployed for a period of time, indicate and set forth dates of unemployment. If you do not recall the name of a supervisor, work address, etc., indicate such on the application.

a. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	
b. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	
c. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	
d. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	
e. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	
f. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	
g. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	
h. **Name of employer**	Dates of employment	Salary
Address	Position and kind of work	
City & state	Name of supervisor	
Telephone ( )	Reason for leaving	

RELATIVES

Provide complete name, including middle name (*no initials*) and complete address

a. Father			Employer		
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		
b. Mother			Employer		Telephone # ( )
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		
c. Spouse (If wife, include maiden name)			Employer		Telephone # ( )
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		

d. Children

Child's Name			**Child's Name**		
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Birth date	Telephone # ( )	
Child's Name			**Child's Name**		
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Birth date	Telephone # ( )	

e. Other relatives (brothers, sisters, step parents, step brothers, step sisters)

Name and Relationship			Employer	Telephone # ( )	
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		
Name and Relationship			Employer	Telephone # ( )	
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		
Name and Relationship			Employer	Telephone # ( )	
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		

RELATIVES (Continued)

Provide complete name, including middle name (*no initials*) and complete address

Name and Relationship			Employer		Telephone # ( )
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		
Name and Relationship			Employer		Telephone # ( )
Street Address			Street Address		
City	State	Zip code	City	State	Zip code
Birth date	Telephone ( )		Occupation		

Do you have any relatives/friends currently employed with the Iowa Department of Public Safety? ☐ Yes ☐ No

Name: _____ Relationship: _____ Division: _____

Name: _____ Relationship: _____ Division: _____

Name: _____ Relationship: _____ Division: _____

REFERENCES

Give three references (*not* relatives, present employers, or school teachers) who are responsible adults of reputable standing in their communities, preferably those who have known you well during the past five years. If retired, give former occupation.

a. **Complete name**	Occupation	No. yrs. acquainted.
Home address		Home phone ( )
Business name and address		Bus. phone ( )
b. **Complete name**	Occupation	No. yrs. acquainted.
Home address		Home phone ( )
Business name and address		Bus. phone ( )
c. **Complete name**	Occupation	No. yrs. acquainted.
Home address		Home phone ( )
Business name and address		Bus. phone ( )

Give three social acquaintances

a. **Complete name**	Occupation	No. yrs. acquainted.
Home address		Home phone ( )
Business name and address		Bus. phone ( )
b. **Complete name**	Occupation	No. yrs. acquainted.
Home address		Home phone ( )
Business name and address		Bus. phone ( )
c. **Complete name**	Occupation	No. yrs. acquainted.
Home address		Home phone ( )
Business name and address		Bus. phone ( )

Anamosa Police Department

UNDERSTANDING OF APPLICATION PROCEDURE

I, _____, understand that my application will **NOT** be processed for a peace officer position with the Anamosa Police Department unless **all** required materials have been completed and included with the application. I understand that I must submit the following materials in order for my application to be processed:

- ❑ Application form (Pages 1A – 9A)
- ❑ High school grade transcripts or copy of G.E.D.
- ❑ College grade transcripts if applicable
- ❑ Copy of birth certificate
- ❑ Copy of DD214 (military discharge document) if applicable.
- ❑ Copy of I.L.E.A. certification if applicable.

Applicants born in the state of Iowa are able to obtain a certified copy of their birth certificate by contacting or stopping by the Iowa Department of Public Health, Vital Records Bureau in the Lucas State Office Building located in Des Moines. A nominal fee will be required for the record search and includes one certified copy. The phone number for the Department of Public Health is: (515) 281-4944. The web address is: ***http://www.idph.state.ia.us/eh/health_statistics.asp****. It is also possible for applicants to obtain a certified birth certificate from their county courthouse of birth.*

I understand that I must meet and maintain all minimum qualification standards, including physical requirements and personal conduct from the time my application is submitted through the end of the selection process. **I understand that providing false, misleading and/or incomplete information is grounds for exclusion from the selection process or discharge if discovered subsequent to employment.**

I understand that all submitted materials become the property of the Anamosa Police Department and will **NOT** be returned to me. (It is suggested that applicants make copies of their application materials for their personal file.)

_____

(Signature of Applicant)

_____/_____/_____

(Date)

Anamosa Police Department

AUTHORIZATION FOR RELEASE OF PERSONAL INFORMATION

I,_____, do hereby authorize a review of and full disclosure of all records concerning myself to any duly authorized agent of the Anamosa Police Department, whether the said records are of a public, private or confidential nature, including criminal histories.

The intent of this authorization is to give my consent for full and complete disclosure of records of educational institutions; financial or credit institutions, including records of loans, the records of commercial or retail credit agencies (including credit reports and/or ratings) and other financial statements of records whenever filed; medical and psychiatric treatment and/or consultation, including hospitals, clinics, private practitioners, and the U.S. Veteran's Administration; employment and pre-employment records, including background reports, efficiency ratings, complaints or grievances filed by or against me; and the recollections of attorneys at law, or of other counsel, whether representing me or another person in any case, either criminal or civil, in which I presently have, or have had an interest.

I understand that any information obtained by a personal history background investigation which is developed directly or indirectly, in whole or in part, upon this release authorization will be considered in determining my suitability for employment by the Anamosa Police Department. I also certify that any person(s) who may furnish such information in good faith concerning me shall not be held accountable for giving this information; and I do hereby release said person(s) from any and all liability which may be incurred as a result of furnishing such information. I further release the Anamosa Police Department from any and all liability which may be incurred as a result of collecting such information.

I HEREBY SWEAR AND AFFIRM THAT EACH STATEMENT AND ALL INFORMATION IN OR SUPPLEMENTING THIS APPLICATION (PERSONAL AND PHYSICAL EVALUATION) ARE COMPLETE, TRUE AND ACCURATELY RECORDED TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT PROVIDING FALSE, MISLEADING AND/OR INCOMPLETE INFORMATION ON THIS APPLICATION IS GROUNDS FOR EXCLUSION FROM THE SELECTION PROCESS OR DISCHARGE IF DISCOVERED SUBSEQUENT TO EMPLOYMENT.

A photocopy and/or fax of this release form will be valid as an original thereof, even though the said photocopy/fax does not contain an original writing of my signature.

I have read and fully understand the contents of the "Authorization for Release of Personal Information".

_____

(Signature of Applicant)

_____

(Date)

The Anamosa Police Department is an equal opportunity employer.

REQUEST FOR CLOSED SESSION AND CONFIDENTIALITY

ANAMOSA, IOWA CITY COUNCIL

As a candidate for the position of Chief of Police with the City of Anamosa, Iowa, I do hereby request that all reviews and interviews that I have for this position be held in closed session of the Anamosa City Council. I also request that any discussions regarding my qualifications and competency for this position also be held in closed session to prevent any needless and irreparable injury to my reputation.

I request that my resume and related information not be available as a public record. I also request that any reports or summaries of my qualifications or references not be available as a public record and remain confidential. It is my belief that the public disclosure of my application materials for this position could result in needless and irreparable injury to my reputation.

This request is made in accordance with Chapter 21.5(i) of the State Code of Iowa, which reads as follows:

> *"To evaluate the professional competency of an individual whose appointment, hiring, performance or discharge is being considered when necessary to prevent needless and irreparable injury to that individual's reputation and that individual requests a closed session."*

Signed this _____ day of _____, 2023.

_____ _____

Printed name of candidate Signature

CITY OF ANAMOSA

NOISE / STREET CLOSURE PERMIT APPLICATION

Date: 7/5/23

☒ NOISE PERMIT
☒ STREET CLOSURE PERMIT

Applicants Name: Anamosa High School

Applicant's Address: 209 Sadie St

Applicant's Phone: (319) 462-3594 Attn: Andrew Eley

Event Location/Address: Parade Route Attached

Detailed Description of Event:

2023 AHS Homecoming Parade

Date of Event: Fri. Sept 8, 2023 Time Period of Event: 1:30-3pm

TYPE OF NOISE VARIANCE REQUESTED:

☒ MUSICAL INSTRUMENT ☐ SOUND EQUIPMENT

STREET CLOSURE INFORMATION (If Applicable)

Street(s) to be affected: Sadie St, Magnolia, N Dubuque, Main St

Starting at intersection(s) of: Sadie St/Magnolia

End at intersection(s) of: Main St / Garnavillo St

Please attach a detailed map/drawing of area.

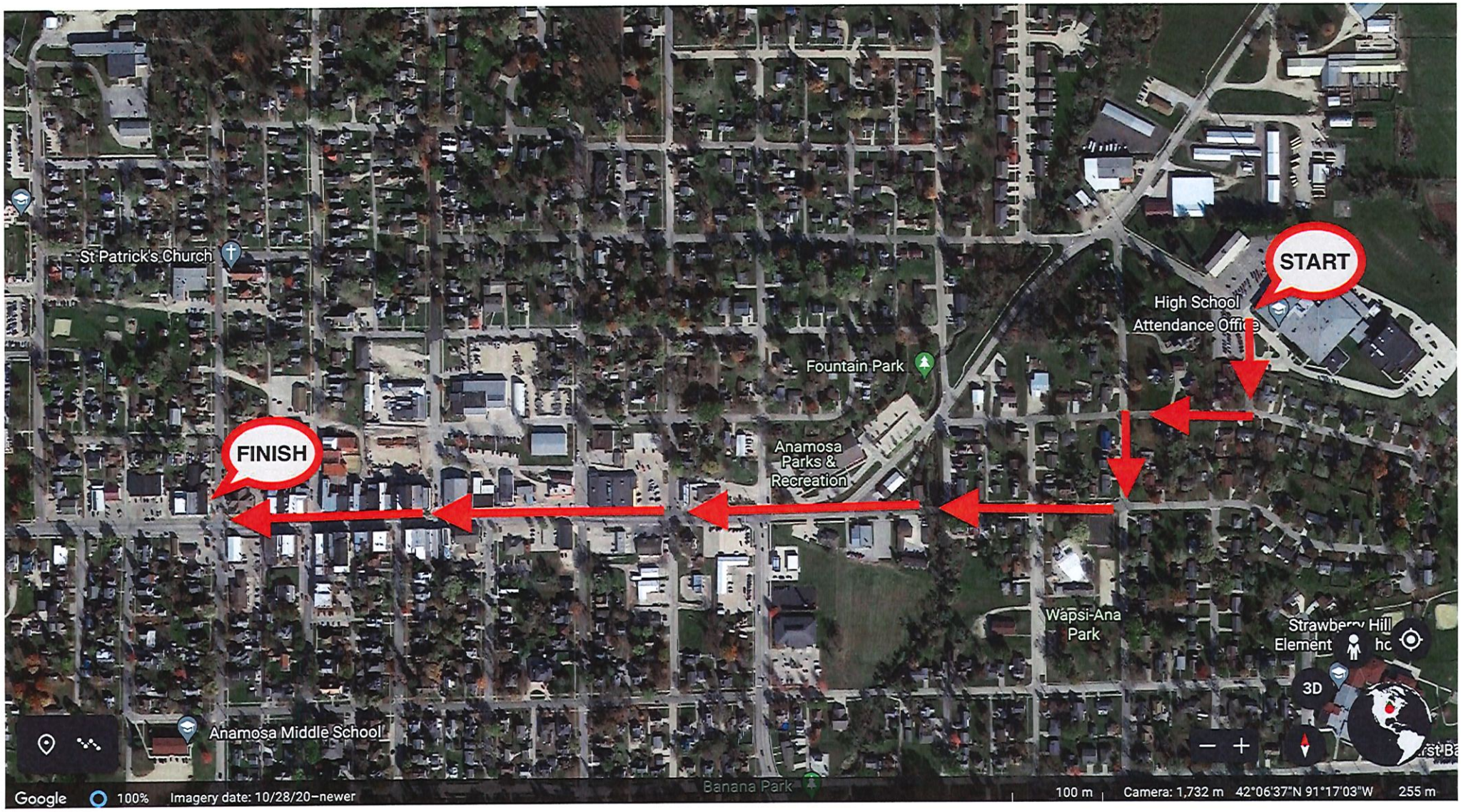
Barricades Needed? (Y)/N How many: ? Type: ?

Barricades are to be picked up at the City Shop area by 12:00 p.m. Noon on Friday prior to weekend event. Barricades are to be returned to the City Shop area by 12:00 p.m. Noon on the Monday following a weekend event.

COPY OF ORDINANCE GIVEN TO APPLICANT? ____

COUNCIL APPROVED ON: _____
AMOUNT OF FEE PAID: _____

DISTRIBUTE COPIES TO: ____* APPLICANT ____* POLICE DEPT.
____* PUBLIC SERVICES ____* FIRE DEPT.


START
High School
Attendance Office
Fountain Park
Anamosa
Parks &
Recreation
FINISH
St Patrick's Church
Wapsi-Ana
Park
Strawberry Hill
Element
3D
Anamosa Middle School
Banana Park
Google
100%
Imagery date: 10/28/20–newer
100 m
Camera: 1,732 m 42°06'37"N 91°17'03"W
255 m

City of Anamosa, IA

Expense Approval Report
By Fund

Payment Dates 6/27/2023 - 7/10/2023

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Fund: 001 - GENERAL FUND					
Vendor: 004233 - 941 TAX EFT PAYMENT					
941 TAX EFT PAYMENT	INV0000987	07/05/2023	MEDICARE TAX	001-000-2206	11.76
941 TAX EFT PAYMENT	INV0000988	07/05/2023	SOCIAL SECURITY TAX	001-000-2202	50.24
941 TAX EFT PAYMENT	INV0000989	07/05/2023	FEDERAL TAX	001-000-2200	45.56
941 TAX EFT PAYMENT	INV0000982	07/07/2023	MEDICARE TAX	001-000-2206	2,508.72
941 TAX EFT PAYMENT	INV0000983	07/07/2023	SOCIAL SECURITY TAX	001-000-2202	10,726.64
941 TAX EFT PAYMENT	INV0000984	07/07/2023	FEDERAL TAX	001-000-2200	5,381.91
				Vendor 004233 - 941 TAX EFT PAYMENT Total:	**18,724.83**
Vendor: 006438 - ACCESS SYSTEMS LEASING					
ACCESS SYSTEMS LEASING	34303617	07/10/2023	COPIER	001-622-6470	309.36
				Vendor 006438 - ACCESS SYSTEMS LEASING Total:	**309.36**
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	001-110-6371	697.98
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	001-111-6371	46.97
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	001-650-6371	376.53
				Vendor 000277 - ALLIANT ENERGY Total:	**1,121.48**
Vendor: 004787 - ANAMOSA STATE PENITENTIARY					
ANAMOSA STATE PENITENTIA	4047	07/10/2023	ASP INMATE LABOR	001-210-6490	165.00
				Vendor 004787 - ANAMOSA STATE PENITENTIARY Total:	**165.00**
Vendor: 006190 - AT&T MOBILITY					
AT&T MOBILITY	06272023PD	07/10/2023	PHONE	001-110-6373	543.78
AT&T MOBILITY	061923	07/10/2023	CELL PHONE	001-612-6373	49.86
				Vendor 006190 - AT&T MOBILITY Total:	**593.64**
Vendor: 004209 - C.J. COOPER & ASSOCIATES, INC.					
C.J. COOPER & ASSOCIATES, I	217949	07/10/2023	DOT CLEARING HOUSE QUERI	001-210-6490	50.00
				Vendor 004209 - C.J. COOPER & ASSOCIATES, INC. Total:	**50.00**
Vendor: 000008 - CITY OF ANAMOSA					
CITY OF ANAMOSA	INV0000975	07/07/2023	FLEX - MEDICAL	001-000-2204	69.23
				Vendor 000008 - CITY OF ANAMOSA Total:	**69.23**
Vendor: 003441 - COLLECTION SERVICES CENTER					
COLLECTION SERVICES CENTE	INV0000973	07/07/2023	COLLECTION SERVICES	001-000-2204	257.55
				Vendor 003441 - COLLECTION SERVICES CENTER Total:	**257.55**
Vendor: 000042 - DELTA DENTAL PLAN OF IOWA					
DELTA DENTAL PLAN OF IOWA	INV0000974	07/07/2023	DELTA DENTAL INSURANCE	001-000-2205	1,272.12
				Vendor 000042 - DELTA DENTAL PLAN OF IOWA Total:	**1,272.12**
Vendor: 003059 - GALL'S INC.					
GALL'S INC.	024744606	07/10/2023	EQUIPMENT	001-110-6537	431.30
GALL'S INC.	024805925	07/10/2023	EQUIPMENT	001-110-6504	128.58
GALL'S INC.	23869186	07/10/2023	EQUIPMENT	001-110-6181	39.98
GALL'S INC.	23869186	07/10/2023	EQUIPMENT	001-110-6504	244.02
				Vendor 003059 - GALL'S INC. Total:	**843.88**
Vendor: 006182 - HENRY/TROY					
HENRY/TROY	277522	07/10/2023	BURIAL CHARGES	001-450-6491	1,250.00
				Vendor 006182 - HENRY/TROY Total:	**1,250.00**
Vendor: 000075 - IOWA PRISON INDUSTRIES					
IOWA PRISON INDUSTRIES	373794	07/10/2023	UNIFORM	001-110-6181	142.97
				Vendor 000075 - IOWA PRISON INDUSTRIES Total:	**142.97**
Vendor: 000281 - IPERS COLLECTIONS					
IPERS COLLECTIONS	INV0000986	07/05/2023	IPERS	001-000-2203	63.73

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
IPERS COLLECTIONS	INV0000976	07/07/2023	IPERS	001-000-2203	8,083.70
IPERS COLLECTIONS	INV0000979	07/07/2023	IPERS	001-000-2203	2,921.07
				Vendor 000281 - IPERS COLLECTIONS Total:	**11,068.50**
Vendor: 003105 - JONES COUNTY ECONOMIC DEVELOP-					
JONES COUNTY ECONOMIC D	07032023	07/10/2023	1ST QTR FY24	001-610-6479	3,750.00
				Vendor 003105 - JONES COUNTY ECONOMIC DEVELOP- Total:	**3,750.00**
Vendor: 000418 - JONES COUNTY SHERIFF					
JONES COUNTY SHERIFF	INV0000981	07/07/2023	COLLECTION - GARN	001-000-2204	367.75
				Vendor 000418 - JONES COUNTY SHERIFF Total:	**367.75**
Vendor: 000295 - JONES COUNTY TOURISM					
JONES COUNTY TOURISM	07032023	07/10/2023	2023 PER CAPITA	001-610-6479	1,276.00
				Vendor 000295 - JONES COUNTY TOURISM Total:	**1,276.00**
Vendor: 006483 - KAREN CHRISTNER					
KAREN CHRISTNER	05312023	07/10/2023	CONTRACT SERVICES	001-622-6401	1,768.20
				Vendor 006483 - KAREN CHRISTNER Total:	**1,768.20**
Vendor: 004422 - LODE/PENNY					
LODE/PENNY	062923	07/10/2023	OFFICE SUPPLIES	001-622-6535	41.52
				Vendor 004422 - LODE/PENNY Total:	**41.52**
Vendor: 006176 - THE HARTFORD					
THE HARTFORD	INV0000970	07/07/2023	AD&D	001-000-2208	54.00
THE HARTFORD	INV0000977	07/07/2023	LIFE INSURANCE	001-000-2208	405.00
THE HARTFORD	INV0000978	07/07/2023	LTD	001-000-2208	371.48
				Vendor 006176 - THE HARTFORD Total:	**830.48**
Vendor: 000393 - TREASURER STATE OF IOWA					
TREASURER STATE OF IOWA	INV0000990	07/05/2023	STATE TAX	001-000-2201	22.78
TREASURER STATE OF IOWA	INV0000985	07/07/2023	STATE TAX	001-000-2201	2,178.62
				Vendor 000393 - TREASURER STATE OF IOWA Total:	**2,201.40**
Vendor: 000220 - VSP Insurance Co					
VSP Insurance Co	INV0000980	07/07/2023	VSP INSURANCE	001-000-2205	295.27
				Vendor 000220 - VSP Insurance Co Total:	**295.27**
Vendor: 005057 - WELLMARK BLUE CROSS BLUE SHIEL					
WELLMARK BLUE CROSS BLUE	INV0000971	07/07/2023	ALLIANCE HEALTH INSURANC	001-000-2205	20,878.08
WELLMARK BLUE CROSS BLUE	INV0000972	07/07/2023	BLUE ADVANTAGE HEALTH IN	001-000-2205	2,839.14
				Vendor 005057 - WELLMARK BLUE CROSS BLUE SHIEL Total:	**23,717.22**
				Fund 001 - GENERAL FUND Total:	**70,116.40**
Fund: 015 - FIRE SERVICE					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	015-150-6371	456.26
				Vendor 000277 - ALLIANT ENERGY Total:	**456.26**
				Fund 015 - FIRE SERVICE Total:	**456.26**
Fund: 041 - LIBRARY FUND					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	041-410-6371	1,292.05
				Vendor 000277 - ALLIANT ENERGY Total:	**1,292.05**
Vendor: 006190 - AT&T MOBILITY					
AT&T MOBILITY	061923	07/10/2023	CELL PHONE	041-410-6373	49.86
				Vendor 006190 - AT&T MOBILITY Total:	**49.86**
				Fund 041 - LIBRARY FUND Total:	**1,341.91**
Fund: 043 - PARKS & RECREATION					
Vendor: 005359 - AERO RENTAL					
AERO RENTAL	314653	07/10/2023	SUMMER KICK OFF	043-430-6490	726.00
				Vendor 005359 - AERO RENTAL Total:	**726.00**

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	043-430-6371	665.18
				Vendor 000277 - ALLIANT ENERGY Total:	**665.18**
Vendor: 006190 - AT&T MOBILITY					
AT&T MOBILITY	061923	07/10/2023	CELL PHONE	043-430-6373	49.86
				Vendor 006190 - AT&T MOBILITY Total:	**49.86**
Vendor: 004760 - DELANCEY ELECTRIC CO.					
DELANCEY ELECTRIC CO.	5332	07/10/2023	REPAIRS	043-430-6532	140.00
				Vendor 004760 - DELANCEY ELECTRIC CO. Total:	**140.00**
Vendor: 004919 - KLUESNER CONSTRUCTION					
KLUESNER CONSTRUCTION	33714	07/10/2023	TENNIS COURT RESURFACING	043-430-6475	22,545.00
				Vendor 004919 - KLUESNER CONSTRUCTION Total:	**22,545.00**
				Fund 043 - PARKS & RECREATION Total:	**24,126.04**
Fund: 044 - AQUA COURT					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	044-440-6371	1,494.77
				Vendor 000277 - ALLIANT ENERGY Total:	**1,494.77**
Vendor: 006055 - CARRICO AQUATIC RESOURCES INC					
CARRICO AQUATIC RESOURCE	20232478	07/10/2023	SUPPLIES	044-440-6475	647.52
CARRICO AQUATIC RESOURCE	20233572	07/10/2023	SUPPLIES	044-440-6475	1,083.67
CARRICO AQUATIC RESOURCE	20233688	07/10/2023	MURIATIC ACID	044-440-6533	1,167.33
CARRICO AQUATIC RESOURCE	20233802	07/10/2023	SUPPLIES	044-440-6533	4,558.55
				Vendor 006055 - CARRICO AQUATIC RESOURCES INC Total:	**7,457.07**
Vendor: 004334 - FAREWAY STORES, INC.					
FAREWAY STORES, INC.	00014485	07/10/2023	SUPPLIES	044-440-6546	87.36
FAREWAY STORES, INC.	00014678	07/10/2023	SUPPLIES	044-440-6546	53.93
FAREWAY STORES, INC.	00021159	07/10/2023	SUPPLIES	044-440-6546	211.97
FAREWAY STORES, INC.	00021225	07/10/2023	SUPPLIES	044-440-6546	23.73
FAREWAY STORES, INC.	15378	07/10/2023	SUPPLIES	044-440-6546	77.87
FAREWAY STORES, INC.	15998	07/10/2023	SUPPLIES	044-440-6546	51.60
FAREWAY STORES, INC.	17712	07/10/2023	SUPPLIES	044-440-6546	11.53
FAREWAY STORES, INC.	22035	07/10/2023	SUPPLIES	044-440-6546	161.05
FAREWAY STORES, INC.	22678	07/10/2023	SUPPLIES	044-440-6546	64.14
FAREWAY STORES, INC.	23975	07/10/2023	SUPPLIES	044-440-6546	83.54
FAREWAY STORES, INC.	24490	07/10/2023	SUPPLIES	044-440-6546	213.52
FAREWAY STORES, INC.	26312	07/10/2023	SUPPLIES	044-440-6546	118.39
FAREWAY STORES, INC.	26627	07/10/2023	SUPPLIES	044-440-6546	86.18
FAREWAY STORES, INC.	27594	07/10/2023	SUPPLIES	044-440-6546	68.54
				Vendor 004334 - FAREWAY STORES, INC. Total:	**1,313.35**
Vendor: 005660 - TOWN & COUNRTY WHOLESALE					
TOWN & COUNRTY WHOLESA	422576	07/10/2023	SUPPLIES	044-440-6546	1,957.06
				Vendor 005660 - TOWN & COUNRTY WHOLESALE Total:	**1,957.06**
				Fund 044 - AQUA COURT Total:	**12,222.25**
Fund: 046 - LAWRENCE COMMUNITY CENTER FUND					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	046-460-6371	1,644.47
				Vendor 000277 - ALLIANT ENERGY Total:	**1,644.47**
Vendor: 000047 - ATLANTIC COCA-COLA					
ATLANTIC COCA-COLA	3962362	07/10/2023	POP	046-460-6546	166.99
				Vendor 000047 - ATLANTIC COCA-COLA Total:	**166.99**
				Fund 046 - LAWRENCE COMMUNITY CENTER FUND Total:	**1,811.46**
Fund: 110 - ROAD USE TAX					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	110-211-6371	271.07
				Vendor 000277 - ALLIANT ENERGY Total:	**271.07**

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Vendor: 005731 - BANOWETZ LUMBER COMPANY INC					
BANOWETZ LUMBER COMPA	4076	07/10/2023	REBAR	110-211-6543	53.75
				Vendor 005731 - BANOWETZ LUMBER COMPANY INC Total:	**53.75**
Vendor: 000191 - BARRON MOTOR SUPPLY					
BARRON MOTOR SUPPLY	286904	07/10/2023	PARTS	110-211-6474	7.50
				Vendor 000191 - BARRON MOTOR SUPPLY Total:	**7.50**
Vendor: 006246 - FRAZIER/SPENCER					
FRAZIER/SPENCER	071023	07/10/2023	PHONE	110-211-6373	20.00
				Vendor 006246 - FRAZIER/SPENCER Total:	**20.00**
Vendor: 000712 - HOTSY CLEANING SYSTEMS					
HOTSY CLEANING SYSTEMS	4997	07/10/2023	PARTS	110-211-6553	240.00
				Vendor 000712 - HOTSY CLEANING SYSTEMS Total:	**240.00**
Vendor: 004919 - KLUESNER CONSTRUCTION					
KLUESNER CONSTRUCTION	34105	07/10/2023	STREET REPAIR	110-211-6543	887.25
				Vendor 004919 - KLUESNER CONSTRUCTION Total:	**887.25**
Vendor: 005286 - KRAY/JEFF					
KRAY/JEFF	071023	07/10/2023	PHONE	110-211-6373	20.00
				Vendor 005286 - KRAY/JEFF Total:	**20.00**
Vendor: 004374 - LINN CO-OP OIL CO.					
LINN CO-OP OIL CO.	871193	07/10/2023	FUEL	110-211-6551	612.41
LINN CO-OP OIL CO.	871194	07/10/2023	FUEL	110-211-6551	1,190.60
				Vendor 004374 - LINN CO-OP OIL CO. Total:	**1,803.01**
Vendor: 004483 - LODE/ERIC					
LODE/ERIC	071023	07/10/2023	PHONE	110-211-6373	20.00
				Vendor 004483 - LODE/ERIC Total:	**20.00**
Vendor: 005741 - RECREATIONAL MOTOR SPORTS					
RECREATIONAL MOTOR SPOR	62116	07/10/2023	FUEL FILTER	110-211-6470	30.64
				Vendor 005741 - RECREATIONAL MOTOR SPORTS Total:	**30.64**
Vendor: 004846 - SADLER POWER TRAIN					
SADLER POWER TRAIN	0310197696	07/10/2023	PARTS	110-211-6530	376.14
				Vendor 004846 - SADLER POWER TRAIN Total:	**376.14**
				Fund 110 - ROAD USE TAX Total:	**3,729.36**
Fund: 122 - LOCAL OPTION TAX 65%					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	122-210-6372	6,556.38
				Vendor 000277 - ALLIANT ENERGY Total:	**6,556.38**
				Fund 122 - LOCAL OPTION TAX 65% Total:	**6,556.38**
Fund: 301 - STREET PROJECTS					
Vendor: 001036 - SNYDER & ASSOCIATES INC.					
SNYDER & ASSOCIATES INC.	120.0620.08-22	07/10/2023	US 151 GRADE SEPARATION	301-213-6407	7,809.00
				Vendor 001036 - SNYDER & ASSOCIATES INC. Total:	**7,809.00**
				Fund 301 - STREET PROJECTS Total:	**7,809.00**
Fund: 600 - WATER FUND					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	600-810-6371	12,690.92
				Vendor 000277 - ALLIANT ENERGY Total:	**12,690.92**
Vendor: 000422 - ALTORFER MACHINERY CO					
ALTORFER MACHINERY CO	400040408	07/10/2023	GENERATOR SERVICE	600-810-6472	780.00
ALTORFER MACHINERY CO	400040433	07/10/2023	GENERATOR SERVICE	600-810-6472	1,119.00
				Vendor 000422 - ALTORFER MACHINERY CO Total:	**1,899.00**
Vendor: 005731 - BANOWETZ LUMBER COMPANY INC					
BANOWETZ LUMBER COMPA	4076	07/10/2023	REBAR	600-810-6472	53.75
				Vendor 005731 - BANOWETZ LUMBER COMPANY INC Total:	**53.75**

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Vendor: 004209 - C.J. COOPER & ASSOCIATES, INC.					
C.J. COOPER & ASSOCIATES, I	217949	07/10/2023	DOT CLEARING HOUSE QUERI	600-810-6489	20.00
			Vendor 004209 - C.J. COOPER & ASSOCIATES, INC. Total:		**20.00**
Vendor: 004883 - CHEM RIGHT LABORATORIES INC					
CHEM RIGHT LABORATORIES I	26424	07/10/2023	MONTHLY BAC T	600-810-6470	95.00
			Vendor 004883 - CHEM RIGHT LABORATORIES INC Total:		**95.00**
Vendor: 004919 - KLUESNER CONSTRUCTION					
KLUESNER CONSTRUCTION	34105	07/10/2023	STREET REPAIR	600-810-6782	5,748.75
			Vendor 004919 - KLUESNER CONSTRUCTION Total:		**5,748.75**
Vendor: 004374 - LINN CO-OP OIL CO.					
LINN CO-OP OIL CO.	871196	07/10/2023	GENERATOR FUEL	600-810-6551	391.99
LINN CO-OP OIL CO.	871197	07/10/2023	LAWN MOWER GAS	600-810-6551	321.27
			Vendor 004374 - LINN CO-OP OIL CO. Total:		**713.26**
Vendor: 003491 - MUNICIPAL SUPPLY, INC.					
MUNICIPAL SUPPLY, INC.	857633	07/10/2023	WATER METERS	600-810-6504	1,920.00
			Vendor 003491 - MUNICIPAL SUPPLY, INC. Total:		**1,920.00**
Vendor: 006467 - OLIN-MORLEY TELEPHONE COMPANY					
OLIN-MORLEY TELEPHONE CO	070123	07/10/2023	INTERNET	600-810-6373	104.95
			Vendor 006467 - OLIN-MORLEY TELEPHONE COMPANY Total:		**104.95**
Vendor: 006195 - TYLER TECHNOLOGIES, INC					
TYLER TECHNOLOGIES, INC	025-428321	07/10/2023	METER READER	600-810-6490	39.37
			Vendor 006195 - TYLER TECHNOLOGIES, INC Total:		**39.37**
			Fund 600 - WATER FUND Total:		**23,285.00**
Fund: 610 - WASTEWATER FUND					
Vendor: 000277 - ALLIANT ENERGY					
ALLIANT ENERGY	062823	07/10/2023	ELECTRIC	610-815-6371	12,017.92
			Vendor 000277 - ALLIANT ENERGY Total:		**12,017.92**
Vendor: 000422 - ALTORFER MACHINERY CO					
ALTORFER MACHINERY CO	400040407	07/10/2023	GENERATOR SERVICE	610-815-6470	768.00
ALTORFER MACHINERY CO	400040431	07/10/2023	GENERATOR SERVICE	610-815-6470	758.00
ALTORFER MACHINERY CO	400040435	07/10/2023	GENERATOR SERVICE	610-815-6470	549.00
			Vendor 000422 - ALTORFER MACHINERY CO Total:		**2,075.00**
Vendor: 004209 - C.J. COOPER & ASSOCIATES, INC.					
C.J. COOPER & ASSOCIATES, I	217949	07/10/2023	DOT CLEARING HOUSE QUERI	610-815-6489	20.00
			Vendor 004209 - C.J. COOPER & ASSOCIATES, INC. Total:		**20.00**
Vendor: 005715 - CR LC SOLID WASTE AGENCY					
CR LC SOLID WASTE AGENCY	02-02152932	07/10/2023	DEBRIS DISPOSAL	610-815-6472	67.00
			Vendor 005715 - CR LC SOLID WASTE AGENCY Total:		**67.00**
Vendor: 004374 - LINN CO-OP OIL CO.					
LINN CO-OP OIL CO.	871195	07/10/2023	GENERATOR FUEL	610-815-6551	822.46
			Vendor 004374 - LINN CO-OP OIL CO. Total:		**822.46**
Vendor: 003491 - MUNICIPAL SUPPLY, INC.					
MUNICIPAL SUPPLY, INC.	857633	07/10/2023	WATER METERS	610-815-6504	1,920.00
			Vendor 003491 - MUNICIPAL SUPPLY, INC. Total:		**1,920.00**
Vendor: 000426 - SHADA/TIM					
SHADA/TIM	071023	07/10/2023	PHONE	610-815-6373	20.00
			Vendor 000426 - SHADA/TIM Total:		**20.00**
Vendor: 006195 - TYLER TECHNOLOGIES, INC					
TYLER TECHNOLOGIES, INC	025-428321	07/10/2023	METER READER	610-815-6489	39.38
			Vendor 006195 - TYLER TECHNOLOGIES, INC Total:		**39.38**

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Vendor: 006442 - WHKS					
WHKS	48464	07/10/2023	WWTP IMPROVEMENTS	610-815-6489	19,137.65
				Vendor 006442 - WHKS Total:	**19,137.65**
				Fund 610 - WASTEWATER FUND Total:	**36,119.41**
				Grand Total:	**187,573.47**

Report Summary

Fund Summary

Fund	Expense Amount	Payment Amount
001 - GENERAL FUND	70,116.40	31,994.73
015 - FIRE SERVICE	456.26	0.00
041 - LIBRARY FUND	1,341.91	0.00
043 - PARKS & RECREATION	24,126.04	0.00
044 - AQUA COURT	12,222.25	0.00
046 - LAWRENCE COMMUNITY CENTER FUND	1,811.46	0.00
110 - ROAD USE TAX	3,729.36	0.00
122 - LOCAL OPTION TAX 65%	6,556.38	0.00
301 - STREET PROJECTS	7,809.00	0.00
600 - WATER FUND	23,285.00	0.00
610 - WASTEWATER FUND	36,119.41	0.00
Grand Total:	**187,573.47**	**31,994.73**

Account Summary

Account Number	Account Name	Expense Amount	Payment Amount
001-000-2200	FIT HOLDING	5,427.47	5,427.47
001-000-2201	SIT HOLDING	2,201.40	2,201.40
001-000-2202	FICA HOLDING	10,776.88	10,776.88
001-000-2203	IPERS HOLDING	11,068.50	11,068.50
001-000-2204	PEDC HOLDING	694.53	0.00
001-000-2205	HEALTH & CANCER INS.	25,284.61	0.00
001-000-2206	MEDICARE HOLDING	2,520.48	2,520.48
001-000-2208	LIFE HOLDING	830.48	0.00
001-110-6181	ALLOWANCE, UNIFORM	182.95	0.00
001-110-6371	UTILITIES, ELECTRIC	697.98	0.00
001-110-6373	UTILITIES, TELEPHONE	543.78	0.00
001-110-6504	EQUIPMENT, SMALL	372.60	0.00
001-110-6537	JCERT	431.30	0.00
001-111-6371	UTILITIES, ELECTRIC (SIR	46.97	0.00
001-210-6490	PROFESSIONAL SERVICE	215.00	0.00
001-450-6491	GRAVE SERVICING	1,250.00	0.00
001-610-6479	CONTRBUTIONS TO OUT	5,026.00	0.00
001-612-6373	UTILITIES, TELEPHONE	49.86	0.00
001-622-6401	AUDITING SERVICES	1,768.20	0.00
001-622-6470	MAINT. CONTRACT OFFI	309.36	0.00
001-622-6535	SUPPLIES/NONCAP EQUI	41.52	0.00
001-650-6371	UTILITIES, ELECTRIC	376.53	0.00
015-150-6371	UTILITIES, ELECTRIC	456.26	0.00
041-410-6371	UTILITIES, ELECTRIC	1,292.05	0.00
041-410-6373	UTILITIES, TELEPHONE	49.86	0.00
043-430-6371	UTILITIES, ELECTRIC	665.18	0.00
043-430-6373	UTILITIES, TELEPHONE	49.86	0.00
043-430-6475	MAINTENANCE, BLDGS	22,545.00	0.00
043-430-6490	EVENT EXPENSES	726.00	0.00
043-430-6532	SUPPLIES, PARK MAINTE	140.00	0.00
044-440-6371	UTILITIES, ELECTRIC	1,494.77	0.00
044-440-6475	MAINTENANCE, BLDGS	1,731.19	0.00
044-440-6533	EQUIP., AQUA CRT. CHE	5,725.88	0.00
044-440-6546	MERCHANDISE FOR RES	3,270.41	0.00
046-460-6371	UTILITIES, ELECTRIC	1,644.47	0.00
046-460-6546	MERCHANDISE FOR RES	166.99	0.00
110-211-6371	UTILITIES, ELECTRIC	271.07	0.00
110-211-6373	UTILITIES, TELEPHONE	60.00	0.00
110-211-6470	MAINTENANCE, EQUIP	30.64	0.00
110-211-6474	MAINTENANCE, VEHICLE	7.50	0.00
110-211-6530	SUPPLIES, OPERATIONS	376.14	0.00
110-211-6543	SUPPLIES, STREET MAIN	941.00	0.00

Account Summary

Account Number	Account Name	Expense Amount	Payment Amount
110-211-6551	VEHICLE FUEL EXPENSES	1,803.01	0.00
110-211-6553	MISCELLANEOUS SUPPLI	240.00	0.00
122-210-6372	ELECTRIC UTILITIES, ST LI	6,556.38	0.00
301-213-6407	PROF. SERVICES, ENGINE	7,809.00	0.00
600-810-6371	UTILITIES, ELECTRIC	12,690.92	0.00
600-810-6373	UTILITIES, TELEPHONE	104.95	0.00
600-810-6470	PROF. SERVICES - TESTIN	95.00	0.00
600-810-6472	MAINTENANCE, SYSTEM	1,952.75	0.00
600-810-6489	PROFESSIONAL SERVICE	20.00	0.00
600-810-6490	MAINT. CONTRACT SOFT	39.37	0.00
600-810-6504	EQUIPMENT, SMALL	1,920.00	0.00
600-810-6551	FUEL EXPENSE	713.26	0.00
600-810-6782	WATER SYSTEM IMPROV	5,748.75	0.00
610-815-6371	UTILITIES, ELECTRIC	12,017.92	0.00
610-815-6373	UTILITIES, TELEPHONE	20.00	0.00
610-815-6470	MAINTENANCE, EQUIP	2,075.00	0.00
610-815-6472	MAINTENANCE, SYSTEM	67.00	0.00
610-815-6489	PROFESSIONAL SERVICE	19,197.03	0.00
610-815-6504	EQUIPMENT, SMALL	1,920.00	0.00
610-815-6551	FUEL EXPENSE	822.46	0.00
	Grand Total:	**187,573.47**	**31,994.73**

Project Account Summary

Project Account Key		Expense Amount	Payment Amount
None		187,573.47	31,994.73
	Grand Total:	**187,573.47**	**31,994.73**